# **ROMBOUT FIRE DISTRICT - NEW FIRE STATION 2**

	MECHANICAL
S TITLESHEET, GENERAL SPECIFICATION NOTES, GENERAL PROJECT NOTES	MIUU MECHANICAL: PROPOSED FIRST FLOOR PLAN
S CODE SHEET	MIUI MECHANICAL: PROPOSED MEZZANINE
1	MIDZ MECHANICAL: PROPOSED ROOF PLAN AND SECTION A
1 COVER SHEET	MZUU MECHANICAL: FIKST FLOOR HEATING PLAN
	MOUL MECHANICAL: FIRST FLOOR HYDRONIC PIPING PLAN
2 EXISTING CUNULITONS, DEMOLITION PLAN 3 SITE DIAN	MOUT MECHANICAL: MEZZANINE HYDRONIC HEATING PLAN
J SHE FLAN	MOUU MECHANICAL: DETAILO
4 GRADING PLAN	MOUI MECHANICAL: DETAILO
5 UTILITY PLAN	M502 MECHANICAL: DETAILS
6 APPARATUS MANEUVERING PLAN	M503 MECHANICAL: DETAILS
/ EROSION AND SEDIMENT CONTROL DETAILS	M504 MECHANICAL: DETAILS
8 CONSTRUCTION DETAILS	M505 MECHANICAL: DETAILS
9 CONSTRUCTION DETAILS	M506 MECHANICAL: DETAILS
TU SEWAGE DISPOSAL SYSTEM CONSTRUCTION DETAILS	MOU/ MECHANICAL: DETAILS
II OFFSITE UTILITY CONNECTION PLAN	MOU MECHANICAL: EQUIPMENT SCHEDULES
12 WATER SERVICE DETAILS	M601 MECHANICAL: EQUIPMENT SCHEDULES
13 WORK ZONE TRAFFIC CONTROL NOTE: PROFILE	M602 MECHANICAL: EQUIPMENT SCHEDULES
14 WATER MAIN CONNECTION PLAN	ELECTRICAL
SP.1 ELECTRICAL: SITE PLAN	E100 ELECTRICAL PROPOSED ELEST ELOOR PLAN
IGNAL LIGHT DRAWINGS	F101 FLECTRICAL PROPOSED ME77ANINE
	ETUT ELEUTINOAL, TINOLUSED MEZZANNINE F200 ELECTRICAL, EIRST ELOOR REELECTER CELLINO DLAN
	F201 ELECTRICAL, FIRST FLOUR REFLECTED CEILING PLAN
ID-UI INDEX AND ABBREVIATIONS	ELECTRICAL, WIEZZANINE KERLECTED CEILING PLAN
EG-01 POINT LEGEND	
EG-02 LINE LEGEND	EDUU ELECTRICAL: EQUIPMENT SCHEDULES
NN-01 GENERAL NOTES	LECIRICAL: EQUIPMENT SCHEDULES
ZN-01 WORK ZONE TRAFFIC CONTROL NOTES	PLUMBING
SN-01 TRAFFIC SIGNAL NOTES	P100 PLUMBING PROPOSED FIRST FLOOR PLAN
SD-01 TRAFFIC SIGNAL DETAILS	P101 PLUMBING, PROPOSED MEZZANINE
SP-01 TRAFFIC SIGNAL PLAN	P500 PLIMRING DETAILS
SP-01A TRAFFIC SIGNAL PLAN	
SP-01B TRAFFIC SIGNAL PLAN	P502 DILIMONO DETAILS
SP-01C TRAFFIC SIGNAL PLAN	PS02 PLUMBING DETAILS
	PEOA PLUMBING DETAILS
TRUCTURAL	POUA PLUMBING DETAILS
001 GENERAL NOTES & TYPICAL DETAILS	P600 PLUMBING: EQUIPMENT SCHEDULES
101 ROOF FRAMING PLAN	P601 PLUMBING: EQUIPMENT SCHEDULES
201 MEZZANINE FRAMING PLAN	SYMROLS
202  ROOF FRAMING PLAN	
202 NOUL ENAMING ELAN 301 RRACED ERAME AND SHEAD WALLS DEAN	DRAWING NUMBER
JUI BRAUED FRAME AND SHEAK WALLS PLAN	RUILDING SECTION ROOM OR SPACE NUMBER
HUT FOUNDATION SECTIONS	
DUI SIRUCIURAL SECTIONS	SHEET NUMBER ELEVATION MARK* ELEVATION
DUZ STRUCTURAL SECTIONS	WALL SECTION TW - ARREVIATION OF POINT TAKEN
RCHITECTURAL	
100  droposed first fiood diam	<u>#DETAIL</u>
101 MEZZANINE DLAN	
IVI MEZZANINE PLAN	DOOR NUMBER DOOR NUMBER
IUZ FIRST FLOOR REFLECTED CEILING PLAN	
103 MEZZANINE REFLECTED CEILING PLAN	
104 PROPOSED ROOF PLAN	
110 LARGE SCALE FLOOR PLANS	WALL IYPE C SHEEL NUMBER
111 LARGE SCALE FLOOR PLAN	
200 EXTERIOR ELEVATIONS	ARREVIAIION2
201 EXTERIOR FLEVATIONS	
300 BUILDING SECTION & WALL SECTIONS	A.B. ANCHUR BULI FIN FL FINISHED FLOOR PARTN PARTITION AC ACOUSTICAI FD FLOOR DRAIN P+D PLUMRING AND DRA
301 BUILDING SECTIONS	ACT ACOUSTICAL CEILING TILE FGL FIBERGLASS POLY POLYURETHANE
302 WALL SECTIONS & STEEL STAIR SECTION	ADJ ADJACENI FL FLOOR PROPERTY LINE
303 WALL SECTIONS & STELL STAIN SECTION 303 WALL SECTIONS & STEEL STAID DETAILS	ALUM ALUMINUM GA GAGE/GAUGE PT PRESSURE TREATED
400 INTEDIOD ELEVATIONS	ANOD ANODIZED GALV GALVANIZED PID PAINTED
400 INTERIOR ELEVATIONS	ARCH ARCHITECT GL GLASS R RISER OR RADIUS
4UI INTERIUR ELEVATIONS	ASPH ASPHALT GWB GYPSUM WALL BD KUL KOOF DRAIN LEADER APPROX APPROXIMATE REINF REINFORCED
DUU DETAILS	AT HC HUNG CEILING REQUIRED
DUI DETAILS	HDW HARDWARE KM KOOM
502 DETAILS	BLK BLOCK HOR HORIZONTAL SC SOLID CORE
503 DETAILS	BOT BOTTOM OF HP HIGH POINT SECT SECTION
504 DETAILS	BRK BRICK
600 SCHEDULES	INSUL INSULATION STL STEEL
601 SCHEDULES	CLG CEILING JAN JANITOR STOR STORAGE
	C.T. CERAMIC TILE JT JOINT T TREAD OR TOP
1echanical & electrical	CONC CONCRETE ASUNRY UNIT TEL TELEPHONE
EP100 MECHANICAL & FLECTRICAL SITE PLAN	CONT CONTINUOUS T&G TONGUE AND GROOM
FP101 MECHANICAL & FLECTRICAL SITE PLAN DETAILS	C.J. CONTROL JOINT MAS MASONRY THK THICK MATI MATERIAL T/O TOP OF
LI IVI WEVHANIVAE & LEVINIVAL, SHE FLAN DETAILS	CENTERLINE MECH MECHANICAL TW TOP OF WALL
IRE PROTECTION	CE CATCH BASIN MIN MIN TYP TYPICAL
PINA EIRE DRATECTION, DRADASED FIRST FLOOD DLAN	DIA. / Ø DIAMETER MAX MAXIMUM VB VAPOR BARRIER
DIAL EIDE DOATEATIAN, DOADASED NEZZANINE	UN DOWN MTL METAL VERT VERTICAL
FIVE FIRE PROTECTION: PROPUSED MEZZANINE	DWG DRAWING N.I.C. NOT IN CONTRACT W WIDE
PSUU FIRE PROTECTION: DETAILS	ELEC ELECTRIC NTS NOT TO SCALE WH WEEP HOLE
P501 FIRE PROTECTION: DETAILS	LLC     LLC     NO.     NUMBER     WS1     WAINSCOT       EL/ELEV     ELEVATION     WWF     WELDED WIRE FABRI
P502 FIRE PROTECTION: DETAILS	EQUIP EQUIPMENT OPNG OPENING W/ WITH
2502 FIRE PROTECTION: DETAILS 2600 FIRE PROTECTION: EQUIPMENT SCHEDULES	EQUIP     EQUIPMENT     OPNG     OPENING     W/     WITH       EXIST     EXISTING     O.C.     ON CENTER     WD     WOOD       EXP_JT     EXPANSION JOINT     A.A.

# LOCATION PLAN

SCALE: NTS

# GENERAL PROJECT NOTES

- 1. CONTRACTOR TO VERIFY ALL CONDITIONS AND MEASUREMENTS BEFORE CONSTRUCTION. POSITION.
- 3. DRAWINGS SHOULD NOT BE SCALED. USE DIMENSIONS.
- CONSIDERED PART OF THE WORK. OCCUR DURING THE GUARANTEE PERIODS.
- 6. ALL WORK IS TO BE EXECUTED BY MECHANICS SKILLED IN THEIR TRADES. THE WORK.
- OTHER TO FACILITATE THE PROGRESS OF THE ENTIRE JOB.
- THE FINAL PAYMENT.
- WRITTEN INSTRUCTIONS AND RECOMMENDATIONS.
- WRITING PRIOR TO COMMENCEMENT OF WORK FOR A RESOLUTION. 12. A COPY OF THE APPROVED PERMIT PLANS SHALL BE KEPT ON SITE AT ALL TIMES.
- 13. EVIDENCE OF WORKERS COMPENSATION SHALL BE KEPT ON FILE.
- 14. ALL WORK SHALL BE PERFORMED IN COMPLIANCE WITH OSHA REGULATIONS. 15. STEP FOOTING AS NEEDED TO INSURE 4'-0" MIN. COVERAGE FOR FROST PROTECTION.
- 2 TONS PER S.F.
- 17. FOUNDATIONS MAY NOT BE PLACED ON FROZEN BEARING MATERIAL. 18. ALL ELECTRICAL WORK TO BE U.L. APPROVED AND FOLLOW N.E.C. AND ALL APPLICABLE CODES.

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P:\2000\JOB # - JOB NAME\

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PROJECT	CODE DESI	GN CRITERI	A

DESIGN CRI	TERIA
FLOOR LIVE LOAD	UNIFORM: 100 PSF CONCENTRATED: 1,000 LBS
GROUND SNOW LOAD	Pg = 40 PSF
FLAT ROOF SNOW LOAD	Pf (0.7 Ce Ct I Pg) = 28PSF
SNOW EXPOSURE FACTOR	Ce = 1.0
THERMAL FACTOR	Ct = 1.0
IMPORTANCE FACTOR	I = 1.0
UNBALANCED SNOW LOAD	1.5 Ce 28 = 42PSF
WIND LOAD	BASIC WIND SPEED 90MPH
WIND IMPORTANCE FACTOR	Iw = 1.00
BUILDING CATEGORY	Ι
WIND EXPOSURE	EXPOSURE B
DESIGN PRESSURE	20 PSF
COMPONENTS & CLADDING	
WALL PRESSURF	22 PSF
WALL CORNER PRESSURE	28 PSF
ROOF PRESSURF	-24 PSF
ROOF EDGE PRESSURE	-40 PSF
SEISMIC USE GROUP	Ι
SPECTRAL RESPONSE COFFEICIENTS SDS & SD1	28 & 16
SITE CLASS	
BASIC SEISMIC EODOE DESISTING SVSTEM	ERAME READING WALLS TRI 1617 6
	TRAME DEARING WALLS IDE 1017.0
<ol> <li>SOIL BEARING CAPACITY TESTING FOR FOOTING</li> <li>SLUMP &amp; CYLINDRICAL TESTING OF CONCRETE FOR FOOTINGS</li> <li>ANCHOR BOLT AND TIE DOWNS.</li> <li>ROOF TRUSS INSTALLATION</li> </ol>	GS AND FILL BENEATH SLAB TO INSURE PROPER CONSISTENCY
ALL FIELD TESTING TO BE PERFORMED BY: ADVANCED TESTING COMPANY INC. 3348 ROUTE 2 CAMPBELL HALL, NEW YORK 10916 PHONE 845-496-1600, FAX 845-496-1398	208
PROJECT CODE CONFORMANC	CE
CODE CONFORMANCE	
OCCUPANCY (304.1) OCCUPANCY (309.1)	BUSINESS "B" STORAGE "S-2"
HEIGHT IN FEET (504.3/504.4) CONSTRUCTION TYPE	1 STORY TYPE IIB - 75 FT. MAX 1 STORY 36' 11" FT PROVIDED

ALLOWABLE AREA OF BUILDING (506.2)

FIRE RESISTANCE RATING (601)

AUTOMATIC SPRINKLER SYSTEM (903.2.10.1) REQUIRED PROVIDED

OCCUPANT LOAD (1004.5)

EGRESS (1006.3.2)

EXIT TRAVEL DISTANCE (1017.2)

2

300 FEET MAX.

104,000 SQ. FT. MAX.

TYPE IIB - 0 HR.

12,975 SQ. FT. PROVIDED

BUSINESS GROSS AREA

STORAGE GROSS AREA

NUMBER OF EXITS REQUIRED (2)

NUMBER OF EXITS PROVIDED (3) "B" NUMBER OF EXITS PROVIDED (2) "S2"

4

5

6

7

150 SQ. FT./OCCUPANT = 20 MAX

200 SQ. FT./OCCUPANT = 50 MAX

FIRE ALARM AND DETECTION SYSTEMS (907.2) CONTRACTOR IS TO PROVIDE AN AUTOMATIC FIRE DETECTION SYSTEM FOR BUILDING. DETECTORS WILL RECEIVE PRIMARY POWER FROM BUILDING WIRING AND WILL BE EQUIPPED WITH BATTERY BACKUP. DETECTORS TO BE INTERCONNECTED AND TIED INTO THE BUILDINGS SECURITY SYSTEM.

A MANUAL FIRE ALARM SYSTEM AND A AUTOMATIC SMOKE/HEAT DETECTION SYSTEM IS NOT REQUIRED FOR OCCUPANT LOAD LESS THAN 500. (907.2.7) ALL CEILING AND WALL FINISHES ARE TO BE CLASS B FLAME SPREAD 26-75 SMOKE-DEVELOPED 0-450

3

EXITS SIGNS ARE TO BE PROVIDED FOR BUILDING AS INDICATED

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# GENERAL SPECIFICATION NOTES

PLANS COMPLY TO THE 2020 RESIDENTIAL BUILDING CODE OF NEW YORK HEALTH & SAFETY STATE. CONTRACTOR SHALL VERIFY ALL NOTES, DIMENSIONS AND CONDITIONS PRIOR TO CONSTRUCTION. CONTRACTOR SHALL PROVIDE TEMPORARY BRACING AS REQUIRED UNTIL ALL PERMANENT CONNECTIONS HAVE BEEN MADE. IT IS THE CONTRACTORS RESPONSIBILITY TO IDENTIFY ALL DISCREPANCIES AND NOTIFY THE OWNER/ARCHITECT AT THE TIME THEY ARE NOTED. DIMENSIONS TAKE PRECEDENCE OVER SCALED DRAWINGS.

## <u>CODES:</u>

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ALL APPLICABLE CODES AND AUTHORITIES HAVING JURISDICTION SHALL BE FOLLOWED 2020 BUILDING CODE OF NEW YORK STATE.

- 2020 MECHANICAL CODEOF NEW YORK STATE.
- 2020 PLUMBING CODE OF NEW YORK STATE.
- 4. 2020 FUEL GAS CODE OF NEW YORK STATE.
- 2020 ENERGY CONSERVATION CONSTRUCTION CODE OF NEW YORK STATE. 5.

GENERAL NOTES: ALL CONTRACTS

- 1. IN THE EVENT OF INCONSISTENCIES WITHIN OR BETWEEN PARTS OF THE CONTRACT DOCUMENTS, OR BETWEEN THE CONTRACT DOCUMENTS AND APPLICABLE STANDARDS, CODES AND ORDINANCES, THE CONTRACTOR SHALL
  - (1) PROVIDE THE BETTER QUALITY OR GREATER QUANTITY OF WORK OR
- (2) COMPLY WITH THE MORE STRINGENT REQUIREMENT; EITHER OR BOTH IN ACCORDANCE WITH THE ARCHITECT'S INTERPRETATION.
- 2. G.C. SHALL PROVIDE A COORDINATED CONSTRUCTION SCHEDULE.
- 3. VERIFY ALL DIMENSIONS IN FIELD FOR FIT OF UNITS SPECIFIED. MODIFY DIMENSIONS ON SHOP DRAWING AS REQUIRED, PRIOR TO SUBMITTAL OR RELEASE FOR PURCHASE OR FABRICATION.
- 4. IT IS RECOMMENDED THAT EACH CONTRACTOR ATTEND THE PRE-BID SITE MEETING TO FULLY ACQUAINT HIMSELF WITH THE CONDITIONS AS THEY EXIST.
- 5. THE DESIGN OF THE PROJECT IS IN ACCORDANCE WITH THE 2020 BUILDING CODE OF NEW YORK STATE.
- 6. ALL OF THE CONTRACTORS SHALL COOPERATE IN THE PLACING OF ANCHOR BOLTS, PLATES, SLOTS, CHASES, INSERTS, SLEEVES, ETC., AS REQUIRED BY OTHER CONTRACTORS. CONTRACTORS SHALL VERIFY ALL DIMENSIONS AND EXISTING CONDITIONS PRIOR TO CONSTRUCTION AND ERECTION, AND NOTIFY ARCHITECT OF ANY DISCREPANCIES PRIOR TO STARTING WORK.
- 7. CONTRACTORS SHALL VERIFY & ASSUME RESPONSIBILITY FOR VERIFYING ALL EXISTING OR AS-BUILT CONDITIONS AND INCLUDE INFORMATION IN SHOP DRAWINGS PRIOR TO SUBMITTAL TO A & E.
- 8. EACH CONTRACTOR TO BE RESPONSIBLE FOR APPLIED FINISHES FOR THEIR WORK.
- 9. IN AREA OF WORK EACH CONTRACTOR TO BE RESPONSIBLE FOR ALL ADJACENT FINISHED WORK OF OTHER TRADES. EACH CONTRACTOR IS TO PROTECT HIS OWN WORK.
- 10. G.C. SHALL COORDINATE WORK OF ANY ALTERNATES.
- 11. ALL CONTRACTORS ARE TO COORDINATE THEIR WORK IN ACCORDANCE WITH DRAWINGS.
- 12. ALL PENETRATIONS THROUGH RATED WALLS & CORRIDOR WALLS ARE TO BE FIRE-STOPPED BY TRADE MAKING PENETRATION, WITH APPROVED MATERIALS PER DRAWINGS AND SPECIFICATIONS.
- 13. EACH CONTRACTOR SHALL INCLUDE IN HIS BID ALL WORK SHOWN, SPECIFIED, REQUIRED AND/OR IMPLIED ON THE DRAWINGS AND SPECIFICATIONS FOR A COMPLETE, OPERATIONAL AND FUNCTIONING SYSTEM.
- 14. WORK SHOWN ON THE DRAWINGS AND NOT DESCRIBED IN THE SPECIFICATIONS OR SPECIFIED AND NOT DRAWN, BUT WHICH IS REASONABLY IMPLIED, EVIDENTLY NECESSARY OR USUALLY PROVIDED TO COMPLETE THE WORK, SHALL BE INCLUDED AS IF BOTH SHOWN AND SPECIFIED.
- 15. ALL DIMENSIONS SHOWN ON DRAWINGS ARE SUBJECT TO VERIFICATION OF ACTUAL DIMENSIONS. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY ALL DIMENSIONS IN THE FIELD TO INSURE PROPER AND ACCURATE FIT OF MATERIALS AND ITEMS TO BE INSTALLED.
- 16. THE CONTRACTOR AND EACH SUBCONTRACTOR SHALL EVALUATE AND SATISFY THEMSELVES AS TO THE CONDITIONS AND LIMITATIONS UNDER WHICH THE WORK IS TO BE PERFORMED, INCLUDING, WITHOUT LIMITATION, (1) THE LOCATION, CONDITION, LAYOUT AND NATURE OF THE PROJECT SITE AND SURROUNDING AREAS; (2) GENERALLY PREVAILING CLIMATIC CONDITIONS; (3) ANTICIPATED LABOR SUPPLY AND COSTS; (4) AVAILABILITY AND COST OF MATERIALS, TOOLS AND EQUIPMENT; AND (5) OTHER SIMILAR ISSUES. THE OWNER ASSUMES NO RESPONSIBILITY OR LIABILITY FOR THE PHYSICAL CONDITION OR SAFETY OF THE PROJECT SITE OR ANY IMPROVEMENTS LOCATED ON THE PROJECT SITE. THE OWNER SHALL NOT BE REQUIRED TO MAKE ANY ADJUSTMENT IN EITHER THE CONTRACT SUM OR CONTRACT TIME IN CONNECTION WITH ANY FAILURE BY THE CONTRACTOR OR ANY SUBCONTRACTOR TO COMPLY WITH THE REQUIREMENTS.
- 17. THE CONTRACTOR SHALL CAREFULLY STUDY AND COMPARE THE CONTRACT DOCUMENTS WITH EACH OTHER AND THE INFORMATION FURNISHED BY THE OWNER, AND SHALL AT ONCE REPORT TO THE ARCHITECT ERRORS, INCONSISTENCIES OR OMISSIONS DISCOVERED. THE CONTRACTOR SHALL NOT BE LIABLE TO THE OWNER, OR ARCHITECT FOR DAMAGE RESULTING FROM ERRORS, INCONSISTENCIES OR MISSIONS IN THE CONTRACT DOCUMENTS UNLESS THE CONTRACTOR RECOGNIZED SUCH ERROR, INCONSISTENCY OR OMISSION AND KNOWINGLY FAILED TO REPORT IT TO THE ARCHITECT. IF THE CONTRACTOR PERFORMS ANY CONSTRUCTION ACTIVITY KNOWING IT INVOLVES A RECOGNIZED ERROR, INCONSISTENCY OR OMISSION IN THE CONTRACT DOCUMENTS WITHOUT SUCH NOTICE TO THE ARCHITECT, THE CONTRACTOR SHALL ASSUME APPROPRIATE RESPONSIBILITY FOR SUCH PERFORMANCE AND SHALL BEAR AN APPROPRIATE AMOUNT OF THE ATTRIBUTABLE COSTS FOR CORRECTION.
- 18. WHERE EQUIPMENT LINES OR PIPING AND/OR CONDUIT ARE SHOWN DIAGRAMMATICALLY, THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE COORDINATION AND ORDERLY ARRANGEMENT OF THE VARIOUS LINES OF PIPING AND CONDUIT INCLUDED IN THE WORK OF HIS CONTRACT. HE SHALL COORDINATE THE WORK OF SEVERAL CONTRACTORS AND PREVENT ALL INTERFERENCE'S BETWEEN EQUIPMENT, LINES OF PIPING, ARCHITECTURAL FEATURES, AND AVOID ANY UNSIGHTLY ARRANGEMENTS IN THE EXPOSED AREAS.
- 19. ALL WORK SHALL BE EXECUTED IN A THOROUGH, SUBSTANTIAL, WORKMANLIKE MANNER, IN COMPLETE ACCORDANCE WITH THE MANUFACTURER'S MOST RECENT RECOMMENDATIONS UNLESS OTHERWISE SPECIFIED OR PERMITTED BY THE ARCHITECT.
- 20. A SUFFICIENT FORCE OF COMPETENT WORKMEN, FOREMEN, AND SUPERINTENDENTS SHALL BE EMPLOYED AT ALL TIMES TO PERMIT THE WORK TO BE PURSUED WITH DILIGENCE UNTIL COMPLETION.

1. THE OCCUPIED PORTIC

REQUIREMENTS NECESS

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2. GENERAL SAFETY AND (a) ALL CONSTRUCTION

(b) FENCES AROUND ( MAINTAINED BY G.C.

- (c) CONSTRUCTION FEN ATTENDANCE TO P
- (d) DURING EXTERIOR
- G.C. FOR ANY SIDE AREAS SHALL BE F

(e) ALL WORKERS SHA TIMES FOR IDENTIF

3. PROPER VENTILATION

4. THE CONTRACTOR SHA WHICH RESULT IN "OFF PAINTS, FURNITURE, CA OR VENTILATED IN ACC SPACE CAN BE OCCU

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			NOTES
GENERAL NOTES	: ALL CONTRAC	TS	
ON OF THE BUILDING SARY TO MAINTAIN A	SHALL ALWAYS COMPLY CERTIFICATE OF OCCUI	Y WITH THE MINIMUM PANCY.	
SECURITY FOR CONS	TRUCTION PROJECT.		
ONSTRUCTION SUPPLI	es or debris shall e	AND SECURE MANNER. BE INSTALLED AND	
NCE GATES SHALL AL' REVENT UNAUTHORIZE	WAYS BE LOCKED UNLE D ENTRY.	SS A WORKER IS IN	
RENOVATION WORK, O WALKS OR AREAS IM	VERHEAD PROTECTION MEDIATELY BENEATH TH	SHALL BE PROVIDED BY HE WORK SITE OR SUCH	
FENCED OFF AND PRO	WIDED WITH WARNING S WEAR PHOTO-IDENTIFIC	SIGNS TO PREVENT ENTRY. ATION BADGES AT ALL	
WILL BE MAINTAINED	IN ALL AREAS DURING	CONSTRUCTION.	>. 
ALL BE RESPONSIBLE	TO ENSURE THAT ACTI	VITIES AND MATERIALS	
F-GASSING" OF VOLA ARPETING, WALL COVI CORDANCE WITH MANI	TILE ORGANIC COMPOU ERING, DRAPERY, ETC., IFACTURERS RECOMMEN	NDS SUCH AS GLUES, ARE SCHEDULED, CURED	
PIED.		DATIONS DEFORE A	
			Image: Answer of the second
			Mechanical/Electrical/Plumbing Engineer
			ASSOCIATES
			CONSULTING ENGINEERS, D.P.C.
			TEL: (845) 291 1272 www.GerardAssociates.com info@GerardAssociates.com
			GA21063 Structural Engineer
			SZEWICZAK ASSOCIATES
			Consulting Engineers
			200 Fisher DriveAvon, Connecticutphone 860.677.4570fax 860.676.0814
			Liscum
			McCormack
			Vanvoornis LLP 181 CHURCH STREET
			ARCHITECTURE POUGHKEEPSIE, NEW YORK 12601 PLANNING INTERIORS PHONE 845-452-2268 FAX 845-452-3752
			PROJECT NEW FIRE STATION FOR
			NYS ROUTE 52, FISHKILL, NY
			DRAWING
			SPECIFICATION NOTES
			DRAWN BY PROJECT NUMBER LR/KS 18142 CHECKED BY DATE
			RV 11/30/2022 DRAWING NUMBER
13	14	15	FILE P:\2000\JOB # - JOB NAME

Swartout	484391 504391 530393 563387	605390 614395 639392 651393
F. antil Date	479387 499380 530379 547388 572390 590379	598385 624381 641379 65038 <b>2</b>
	496373 525371 582373	615375 632374 000 615375 632374 662360
	492363 521361 577365	603361 612360 CROSB1 643383
	487354 516353	62935
	481344 511344	610350
	574330	661331 611331 1.5 Ac.(c)
EM FFT FT	501325 NYSDOT	RFM 52
	495316 RFM 52	$\left  \begin{array}{c} 2 \\ 7 \\ 7 \\ 7 \\ 7 \\ 7 \\ 7 \\ 7 \\ 7 \\ 7 \\$
Watch Hull	78301         8204         559300	E 2063
CAA Radio Towerso		ROUTE 52
	531312 NEW YORK STATE	604282 4281 623284 1.6 Ac.(c)
	54244	606272 B20271 UORTH
Homps Rule (80 Method 5 )	543259	601220 METRO - NORTH
	516255 2.2 Ac.(c) 516255	
Brinekerholl Like		-
	2.5 Ac.(c)	
PROJECT SITE	SITE	
	NYSDOT	
	52	
	2060	653179
		11.5 Ac.
Soft Mtn Start		
		-400'
	LUCATION WAP: SCALE: 1"=	=4UU
TOPOGRAPHIC MAP	TAKEN FROM TOWN OF FISHKILL T	AX MAP
TOWN OF FISHKILL PLANNING BOARD	SILE DATA:	
	TAX ID No.: 133089–625	56-04-574274
	TOTAL AREA: 1.85 ACRES	
Approved by Pepplution of the Planning Reard of the Town of	ZONE: GB. GENERAL	BUSINESS DISTRICT
Fishkill, New York, on the day of		
20, subject to all requirements and conditions of said	IOTAL AREA OF DISTURBANCE =	1.7 ACRES
resolution. Any change, erasure, modification or revision of	<u>SITE DIMENSIONS</u>	<u>REQUIRED</u> <u>P</u>
	MIN LOT ARFA (SOUARF FFFT).	15.000 8
Signed this day of,20, by		
	MIN LOT WIDTH (FEET):	75 2
	MIN LOT DEPTH (FEET):	150 2
Chairman	MIN FRONT SETDAON (FFFT)	50 1.
	(FROM C/L OF THE STRFFT)	50 11
	MIN FRONT SETBACK (FEET): (FROM THE FRONT LOT LINE)	35 75
DUTCHESS COUNTY DEPARTMENT OF HEALTH	(Thom the thom Lot Line)	
POUGHKEEPSIE NEW VORK	MIN SIDE SETBACK (FEET):	NONE 5
	MIN REAR SETBACK (FEET):	30 70
	MAX RIIII DING HEIGHT.	
	(STORIES)	2 1/2 2
	(FEET)	35 <
	MAX BUILDING COVERAGE AND	
	AND PAVED AREA (% OF LOT AR	EA): 75% 5
	FLOOR AREA RATIO:	0.4 0
OWNER'S CONSENT NOTE		
WE, THE UNDERSIGNED OWNERS OF THE PROPERTY SHOWN HEREON,		
HEREBY CERTIFY THAT WE ARE FAMILIAR WITH THIS MAP, ITS		
CONDITIONS EXPRESSED HEREON.		
DANIEL J. SILVESTRI, COMMISSIONER DATE		
DANIEL J. SILVESTRI, COMMISSIONER DATE ROMBOUT FIRE DISTRICT		
DANIEL J. SILVESTRI, COMMISSIONER DATE ROMBOUT FIRE DISTRICT 501 CEDAR HILL ROAD TISHKILL, NEW YORK 12524		
DANIEL J. SILVESTRI, COMMISSIONER DATE ROMBOUT FIRE DISTRICT 501 CEDAR HILL ROAD FISHKILL, NEW YORK 12524		



# PROPOSED

0,681 82

57 11

/5.

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54% .16 ADJACENT PROPERTY OWNERS:

Seymour M. Arkawy 1505 Route 52 Fishkill, NY 12524 For Property:13308900625600045313120000

Hudson Valley Commercial 32 Spring Rd Poughkeepsie, NY 12601 For Property:13308900625600042652860000

Anthony DiSiena, Trustee 30 Cunningham Dr Lagrangeville, NY 12540 For Property: 13308900625600046042820000

Rombout Cemetery 1571 Route 52 Fishkill, NY 12524 For Property:13308900625600046213100000

Robert Chiuli 1577 Route 52 Fishkill, NY 12524 For Property:13308900625600046062720000

Frederick W. Stiefel 1510 1st Ave 101 Bradenton, FL 34205 For Property:13308900625600045742740000

Robert Chiuli 1577 Route 52 Fishkill, NY 12524 For Property:13308900625600045872680000

Jean B. Hoose, Trustee 1249 Hustis Dr Fishkill, NY 12524 For Property:13308900625600006531790000

Blue Seal Feeds Inc 2905 North Highway 61 Muscatine, IA 52761 For Property:13308900625600046202710000

Metropolitan Transportation 2 Broadway New York, NY 10004 For Property:13308900625600048362510000

Seymour M. Arkaway 1505 Route 52 Fishkill, NY 12524 For Property: 13308900625600046113310000

ANK Realty Inc 66 Prospect St Poughkeepsie, NY 12601 For Property: 13308900625600045162550000

Blue Seal Feeds Inc 2905 North Highway 61 Muscatine, IA 52761 For Property:13308900625600046012700000

Anthony DiSiena, Trustee 30 Cunningham Dr Lagrangeville, NY 12540 For Property:13308900625600045942810000

Toll Van Wyck LLC 42 Old Ridgebury Ct Fl 2nd Danbury, CT 06810 For Property:13308900625600184791760000 J C N Properties LLC 1538 Route 52 Fishkill, NY 12524 For Property:13308900625600045602670000

John W. Whitefield 10 Old Country Pl Hopewell Junction, NY 12533 For Property:13308900625600045612400000

Seymour M. Arkawy 1505 Route 52 Fishkill, NY 12524 For Property:13308900625600045593000000

Blue Seal Feeds Inc 2905 North Highway 61 Muscatine, IA 52761 For Property:13308900625600046232840000

OSJ of Fishkill LLC 375 Commerce Park Rd North Kingstown, RI 02852 For Property:13308900625600045743300000

Nenni Construction Co Inc 7 Hiko Pl Fishkill, NY 12524 For Property: 13308900625600045432590000

Ballistic Bodyworks LLC 12 Pardy Ln Fishkill, NY 12524 For Property: 13308900625600046342450000

## SHEET INDEX

CIVIL

C1 – COVER SHEET (SHEET 1 OF 14) C2 – EXISTING CONDITIONS, DEMOLITION PLAN (SHEET 2 OF 14) C3 – SITE PLAN (SHEET 3 OF 14) C4 – GRADING PLAN (SHEET 4 OF 14) C5 – UTILITY PLAN (SHEET 5 OF 14) C6 – APPARATUS MANEUVERING PLAN (SHEET 6 OF 14) C7 – EROSION AND SEDIMENT CONTROL DETAILS (SHEET 7 OF 14) C8 – CONSTRUCTION DETAILS (SHEET 8 OF 14) C9 – CONSTRUCTION DETAILS (SHEET 9 OF 14) C10 – SEWAGE DISPOSAL SYSTEM CONSTRUCTION DETAILS (10 OF 14) C11 – OFFSITE UTILITY CONNECTION PLAN (11 OF 14) C12 – WATER SERVICE DETAILS (12 OF 14) C13 – WORK ZONE TRAFFIC CONTROL NOTES. PROFILE (13 OF 14) C14 – WATER MAIN CONNECTION PLAN (14 OF 14)

ELECTRICAL

LANDSCAPE L1 — PLANTING PLAN

ARCHITECTURE



ESP-1 - ELECTRICAL: SITE LIGHTING PLAN

L2 – PLANT TABLE AND SPECIFICATIONS

SHEET 1 – BUILDING NORTH ELEVATION; BUILDING EAST ELEVATION SHEET 2 – BUILDING SOUTH ELEVATION; BUILDING WEST ELEVATION





# DARK BRONZE METAL DECORATIVE FRAME



RANDOM CUT AND TUMBLED SQUARE & RECTANGULAR GRANITE

⊃ E, P C Civil, Sanitary & Site Engineering Site Planning	srowonnentu
LAWRENCE J. PAGGI, F consulting engineering 43 broad street Fishkill, New York 12524 Telephone: (845) 897–2375	
CLARENCE J. P. C.	CONCERT +
inary Final Construction BY DATE 11/30/22	
DRAWN BY     CHECKED BY     Drelim       AB     LJP     LJP       No.     REVISIONS       1.     ISSUED FOR BID	
ROMBOUT FIRE DISTRICT FIRE STATION 2 1548 ROUTE 52, TOWN OF FISHKILL DUTCHESS COUNTY, NEW YORK	COVER SHEET
DATE: FEBRUARY 24, 2021 SCALE: 1" = 20' JOB NUMBER:	
21-01 SHEET NUMBER:	
$\mathbb{C}1$	

NOTES:		
1. NO TREE REMOVAL SHALL OCCU POTENTIAL IMPACT ON THE INDI	IR FROM APRIL 1 TO NOVEMBER 1 TO MIT ANA BAT.	IGATE INV.(A)=219.97 INV.(A)=219.87
		INV.(D) PAVEMEN TO B
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		(EXACT LOCATION TO BE FIELD VERIFIED)
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	VERIFIED)	TO BE REN
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	WHITE LINE WHITE CURB	N/2
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$\begin{cases} RIM: 2D = 216.53^{\circ}, 18^{\circ} CM \\ INV.(A) = 216.89^{\circ}, 18^{\circ} RCP \\ INV.(B) = 216.64^{\circ}, 18^{\circ} RCP \\ INV.(C) = 216.64^{\circ}, 18^{\circ}, $		LT DRIV
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	DOCUMENT #256-04 TAX ID:133089-6256-04	CURB 7.3A
LEGEND		RIM: 222.02
⊡ BENCHMARK		+ NV.(A) = 219.72', 8" CMP (PTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTT
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Image: Sanitary Manhole     Image: Catch Basin		HOUSE
COMMUNICATION MANHOLE		
© ♥ WATER WELL © EI ELECTRIC METER		-222
or les elle onto meneral or UTILITY POLE WITH LIGHT		
GUY WIRE		
Image: Organization of the second		
WOOD POST     MAILBOX		
DECIDUOUS TREE		
BUILDING LINE		
MINOR CONTOUR		
MAJOR CONTOUR		
SANITARY LINE	0 20 40	
VINYL FENCE	1 INCH = 20 FT.	eet
ADJOINING PROPERTY LINE		











## EROSION AND SEDIMENT CONTROL SEQUENCING SCHEDULE:

THE TOTAL AREA OF DISTURBANCE IS APPROXIMATELY 1.7 ACRE.

- 1. CONDUCT PRECONSTRUCTION CONFERENCE AT THE PROJECT LOCATION WITH THE OPERATOR AND THE PROJECT ENGINEER TO REVIEW THE REQUIREMENTS OF GP-0-20-001, INCLUDING POSTING OF THE REQUIRED DOCUMENTATION AND LOCATION WHERE THE SWPPP WILL BE MAINTAINED ON SITE.
- 2. A CERTIFIED PROFESSIONAL WITH EXPERIENCE DESIGNING EROSION AND SEDIMENT CONTROLS SHALL MONITOR THE SITE TO DETERMINE THAT THE PROPER EROSION AND SEDIMENT CONTROLS ARE PROPERLY MAINTAINED IN ACCORDANCE WITH DEC PERMIT.
- 3. WEEKLY INSPECTIONS SHALL BE MADE FOR COMPLIANCE OF THE SWPPP, AND REPORTS ISSUED TO THE TOWN AS REQUIRED BY GP-0-20-001.
- 4. DUST ONSITE SHALL BE MINIMIZED BY SPRAYING WATER ON DRY AREAS OF THE SITE. IF THE MAJORITY OF MUD OR DIRT IS NOT REMOVED FROM EXITING TRAFFIC, HOSE BIBS SHALL BE PROVIDED AT CONSTRUCTION TRAFFIC POINTS AND VEHICLE TIRES SHALL BE WASHED BEFORE EXITING ON PUBLIC ROADS. SILT FROM THIS WASHING OPERATION SHALL BE INTERCEPTED AND TRAPPED BEFORE WASH WATER IS ALLOWED TO BE DISCHARGED OFFSITE. THE USE OF OILS AND OTHER PETROLEUM BASED OR TOXIC LIQUIDS FOR DUST SUPPRESSION IS PROHIBITED.
- 5. THE FIRST 50 FEET OF THE EXISTING DRIVEWAY TO THE SITE SHALL BE PRESERVED AS ANTI-TRACKING PAD DURING CONSTRUCTION. USE EXISTING PARKING AREA AS STAGING AREA AND EQUIPMENT AND MATERIAL STORAGE AREA. STABILIZE ENTRANCE TO THE PROJECT SITE BY INSTALLING STONE PER THE CONSTRUCTION ACCESS DETAIL WHEN EXITING VEHICLES MUST TRAVEL ALONG UNPAVED AREAS. STABILIZE ADJACENT DISTURBED SOIL AREAS WITH VEGETATION.
- 6. INSTALL SILT FENCE ALONG THE DOWNHILL PERIMETER OF PLANNED LAND DISTURBANCE IN THE LOCATIONS INDICATED ON THE GRADING AND EROSION AND SEDIMENT CONTROL PLAN. INSTALL CATCH BASIN INSERT IN THE EXISTING CATCH BASIN LOCATED AT THE NORTHWEST CORNER OF THE PROJECT SITE. CATCH BASIN INSERT SHALL BE ULTRA-DRAIN GUARD TRASH AND DEBRIS MODEL PART #9227 AS MANUFACTURES BY ULTRATECH OR APPROVED EQUAL.
- 7. DEMOLISH EXISTING BUILDINGS AND EXISTING PAVEMENT IN THE LOCATION OF THE NEW BUILDING CONSTRUCTION. ALL DEMOLITION MATERIAL IS TO BE TAKEN OFF SITE TO AN APPROPRIATE LANDFILL OR RECYCLING CENTER.
- 8. COMMENCE SITE CONSTRUCTION ACTIVITIES INCLUDING CLEARING & GRADING OF THE PROPOSED AREA OF DISTURBANCE AS REQUIRED. STABILIZE HARDSCAPE AREAS BY INSTALLING ITEM 4 BASE COURSE. VEGETATE DISTURBED SOIL AREAS NOT TO BE SUBJECT TO ADDITIONAL DISTURBANCE WITHIN 14 DAYS.
- 9. SILT FENCE SHOULD BE INSTALLED AROUND ANY TEMPORARY SOIL STOCKPILES OR GRAVEL BAGS IF SOIL STOCKPILES INSTALLED ON IMPERVIOUS SURFACE. IF THESE STOCKPILES ARE NOT TO BE USED WITHIN 14 DAYS THEY SHOULD BE TEMPORARILY SEEDED AND MULCHED.
- 10. EXCAVATE AREAS FOR INFILTRATION BASINS. ALL AREAS WHICH DRAIN TO INFILTRATION BASINS SHALL BE COMPLETELY STABILIZED BEFORE INFILTRATION BASINS CONSTRUCTION IS COMPLETED. INFILTRATION BASIN CONSTRUCTION IS TO BE INITIATED DURING A PERIOD WHEN NO PRECIPITATION IS IN FORECAST WITH SUFFICIENT DURATION TO COMPLETE INSTALLATION OF THESE ITEMS. INSTALL SILT FENCE UPSTREAM OF THE PROPOSED INFILTRATION BASIN IN THE LOCATION SHOWN ON GRADING AND EROSION AND SEDIMENT CONTROL PLAN.
- 11. BUILDING CONSTRUCTION MAY COMMENCE AFTER ABOVE OUTLINED WORK IS COMPLETED. INSTALL BUILDING FOOTING/FOUNDATION AND INSTALL GAS, WATER AND SEWER LINES BELOW PAVED AREAS TO BUILDING. VEGETATE DISTURBED SOIL AREAS NOT TO BE SUBJECT TO ADDITIONAL DISTURBANCE WITHIN 14 DAYS.
- 12. REMOVE REMAINING PAVEMENT AND CONCRETE CURB. ALL DEMOLITION MATERIAL IS TO BE TAKEN OFF SITE TO AN APPROPRIATE LANDFILL OR RECYCLING CENTER. ROUGH GRADE THE PROJECT SITE TO THE LINES AND GRADES INDICATED ON THE GRADING PLAN.
- 13. CONSTRUCT PROPOSED STORMWATER COLLECTION SYSTEM AS INDICATED ON THE GRADING AND UTILITY PLAN AND CONSTRUCTION DETAILS. INSTALL CATCH BASIN INSERTS IN THE PROPOSED CATCH BASINS. CATCH BASIN INSERTS SHALL BE ULTRA–DRAIN GUARD TRASH AND DEBRIS MODEL PART #9227 AS MANUFACTURES BY ULTRATECH OR APPROVED EQUAL. PROTECT DURASLOT FROM SEDIMENT DURING THE INSTALLATION. THE CATCH BASINS SUMP SHALL BE MONITORED AND CLEANED WHEN SEDIMENT ACCUMULATION HAS REACHED 50% OF STORAGE CAPACITY
- 14. UPON COMPLETION OF THE BUILDING FOOTING/FOUNDATION AND SITE UTILITIES, CONSTRUCT CURBING NECESSARY TO DIRECT RUNOFF INTO CATCH BASINS. INSTALL ASPHALT BINDER TO WITHIN 20 FEET OF PROPOSED BUILDING AND STABILIZE AREAS NOT TO BE SUBJECT TO ADDITIONAL DISTURBANCE WITHIN 14 DAYS
- 15. UPON COMPLETION OF BUILDING EXTERIOR, INSTALL THE BALANCE OF THE BINDER AND INSTALL FINAL PAVEMENT
- 16. PRIOR TO FINALIZING CONSTRUCTION OF INFILTRATION BASIN ALL CATCH BASINS AND DRAINAGE LINES SHALL BE CLEANED OF ALL SILT AND SEDIMENT.
- 17. ALL EROSION CONTROL MEASURES EMPLOYED DURING CONSTRUCTION SHALL COMPLY WITH THE STANDARDS FOUND IN NEW YORK STANDARDS AND SPECIFICATIONS FOR EROSION AND SEDIMENT CONTROL, LATEST EDITION.
- 18. ALL DISTURBED AREAS WHICH ARE TO BE LANDSCAPED SHALL BE IMMEDIATELY STABILIZED BY SEEDING AND MULCHING USING PERMANENT SEEDING PROCEDURE. SLOPES EQUAL TO OR STEEPER THAN 3H:1V SHALL BE STABILIZED WITH NORTH AMERICAN GREEN "C125" DOUBLE NET EROSION CONTROL BLANKET (INSTALL PER MANUFACTURER'S RECOMMENDATIONS).
- 19. FULL SOIL RESTORATION SHALL BE APPLIED IN ALL DISTURBED IMPERVIOUS AREAS THAT PROPOSED TO HAVE PERVIOUS COVER IN ACCORDANCE WITH THE SOIL RESTORATION REQUIREMENTS IN TABLE 5.3 OF THE NEW YORK STATE STORMWATER MANAGEMENT DESIGN MANUAL.
- 20. UPON COMPLETION OF ALL SITE CONSTRUCTION AND ONCE FINAL SITE STABILIZATION IS ACHIEVED FOR 80% OF THE DISTURBED SOIL SURFACE, ALL SEDIMENT BARRIERS ARE TO BE REMOVED. ANY AREAS DISTURBED BY THESE REMOVAL OPERATIONS SHALL BE IMMEDIATELY SEEDED AND MULCHED IN CONFORMANCE WITH THE PERMANENT SEEDING PROCEDURES.

21. REMOVE TEMPORARY CONSTRUCTION ACCESS ONLY PRIOR TO FINAL STABILIZATION IN THIS AREA.

## EROSION CONTROL MAINTENANCE PLAN - DURING CONSTRUCTION:

PERMANENT AND TEMPORARY VEGETATION:

INSPECT ALL AREAS THAT HAVE RECEIVED VEGETATION EVERY SEVEN DAYS & AFTER EVERY RUNOFF-PRODUCING RAINFALL. ANY VEGETATED AREA THAT HAS ERODED AS A RESULT OF RUNOFF SHALL BE FERTILIZED, RESEEDED AND MULCHED TO MAINTAIN A VIGOROUS, DENSE VEGETATIVE COVER.

STABILIZED CONSTRUCTION ENTRANCE:

INSPECT THE ENTRANCE PAD EVERY SEVEN DAYS & AFTER EVERY RUNOFF-PRODUCING RAINFALL. CHECK FOR MUD, SEDIMENT BUILD-UP AND PAD INTEGRITY. MAKE DAILY INSPECTIONS DURING WET WEATHER. RESHAPE PAD AS NEEDED FOR DRAINAGE AND RUNOFF CONTROL. WASH AND REPLACE STONE AS NEEDED. THE STONE IN THE ENTRANCE SHOULD BE WASHED OR REPLACED WHENEVER THE ENTRANCE FAILS TO REDUCE MUD BEING CARRIED OFF-SITE BY VEHICLES. IMMEDIATELY REMOVE MUD AND SEDIMENT TRACKED OR WASHED ONTO PUBLIC ROADS BY BRUSHING OR SWEEPING. REMOVE TEMPORARY CONSTRUCTION ENTRANCE AS SOON AS THEY ARE NO LONGER NEEDED TO PROVIDE ACCESS TO THE SITE.

### SILT FENCE:

INSPECT FOR DAMAGE EVERY SEVEN DAYS & AFTER EVERY RUNOFF-PRODUCING RAINFALL. MAKE ALL REPAIRS IMMEDIATELY. REMOVE SEDIMENT FROM THE UP-SLOPE FACE OF THE FENCE BEFORE IT ACCUMULATES TO A HEIGHT EQUAL TO 1/3 THE HEIGHT OF THE FENCE. IF FENCE FABRIC TEARS, BEGINS TO DECOMPOSE, OR IN ANY WAY BECOMES INEFFECTIVE, REPLACE THE AFFECTED SECTION OF FENCE IMMEDIATELY.

## SOIL STOCKPILE:

INSPECT SEDIMENT CONTROL BARRIERS (SILT FENCE OR HAY BALE) AND VEGETATION FOR DAMAGE EVERY SEVEN DAYS & AFTER EVERY RUNOFF-PRODUCING RAINFALL. MAKE ALL REPAIRS IMMEDIATELY. REMOVE SEDIMENT FROM THE UP-SLOPE FACE OF THE SEDIMENT CONTROL BARRIER BEFORE IT ACCUMULATES TO A HEIGHT EQUAL TO 1/3 THE HEIGHT OF THE SEDIMENT CONTROL BARRIER. IF SEDIMENT CONTROL BARRIER TEARS, BEGINS TO DECOMPOSE, OR IN ANYWAY BECOMES INEFFECTIVE, REPLACE THE AFFECTED SECTION OF SEDIMENT CONTROL BARRIER IMMEDIATELY. REVEGETATE DISTURBED AREA TO STABILIZE SOIL STOCK PILE. REMOVE THE SEDIMENT CONTROL BARRIER WHEN THE SOIL STOCKPILE HAS BEEN REMOVED.

### DUST CONTROL:

SCHEDULE CONSTRUCTION OPERATIONS TO MINIMIZE THE AMOUNT OF DISTURBED AREAS AT ANY ONE TIME DURING THE COURSE OF WORK. APPLY TEMPORARY SOIL STABILIZATION PRACTICES SUCH AS MULCHING, SEEDING, AND SPRAYING (WATER). STRUCTURAL MEASURES (MULCH, SEEDING) SHALL BE INSTALLED IN DISTURBED AREAS BEFORE SIGNIFICANT BLOWING PROBLEMS DEVELOP. WATER SHALL BE SPRAYED AS NEEDED. REPEAT AS NEEDED, BUT AVOID EXCESSIVE SPRAYING, WHICH COULD CREATE RUNOFF AND EROSION PROBLEMS.

#### CONCRETE WASHOUT:

CONCRETE WASHOUT FACILITIES SHALL BE INSPECTED DAILY. DAMAGED OR LEAKING FACILITIES SHALL BE DEACTIVATED AND REPAIR OR REPLACED IMMEDIATELY. ACCUMULATED HARDENED MATERIAL SHALL BE REMOVED WHEN 75% OF THE STORAGE CAPACITY OF THE STRUCTURE FILLED.DISPOSE OF THE HARDENED MATERIAL OFF-SITE IN A CONSTRUCTION/DEMOLITION LANDFILL. THE PLASTIC LINER SHALL BE REPLACED WITH EACH CLEANING OF THE WASHOUT FACILITY.



PLAN VIEW

# PECIFICATION

1. STONE SIZE - USE 2" STONE, OR RECLAIMED OR RECYCLED CONCRETE FOUIVAI FNT

- 2. LENGTH NOT LESS THAN 50 FEET
- 3. THICKNESS NOT LESS THAN SIX (6) INCHES.

4. WIDTH - TWELVE (12) FOOT MINIMUM. BUT NOT LESS THAN THE FULL WIDTH AT POINTS WHERE INGRESS OR EGRESS OCCURS. TWENTY-FOUR (24) FOOT IF SINGLE ENTRANCE TO SITE.

5. FILTER CLOTH - WILL BE PLACED OVER THE ENTIRE AREA PRIOR TO PLACING OF STONE.

STRUCTION ENTRANCES SHALL BE PIPED ACROSS THE ENTRANCE. IF PIPING IS IMPRACTICAL, A MOUNTABLE BERM WITH 5:1 SLOPES WILL BE PFRMITTED.

7. MAINTENANCE - THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC RIGHTS-OF-WAY. ALL SEDIMENT SPILLED, DROPPED, WASHED OR TRACTED ONTO PUBLIC RIGHTS-OF-WAY MUST BE REMOVED IMMEDIATELY. 8. WHEN WASHING IS REQUIRED, IT SHALL BE DONE ON AN AREA STABILIZED

WITH STONE AND WHICH DRAINS INTO AN APPROVED SEDIMENT TRAPPING DEVICE

9. PERIODIC INSPECTION AND NEEDED MAINTENANCE SHALL BE PROVIDED AFTER EACH RAIN.

#### STABILIZED CONSTRUCTION ENTRANCE NOT TO SCALE

## **POST-CONSTRUCTION MAINTENANCE SCHEDULE**

CATCH BASINS –

CATCH BASINS SHOULD BE INSPECTED ANNUALLY AND AFTER MAJOR STORM EVENTS (e.g., AFTER EACH EVENT WHERE 3 INCHES OF RAINFALL IS EXCEEDED IN A 24-HOUR PERIOD). DEBRIS AND EACH EVENT WHERE 3 INCHES OF RAINFALL IS EXCEEDED IN A 24-HOUR PERIOD). DEBRIS AND LITTER SHOULD BE REMOVED FROM THE BASINS DURING THESE INSPECTIONS. SEDIMENT WILL HAVE TO BE REMOVED FROM THE BASINS EITHER MANUALLY OR BY VACUUM TRUCK WHEN 10% OF THE AVAILABLE CAPACITY HAS BEEN USED (e.g., FOR 12" SUMP, WHEN THE DEPTH OF SEDIMENT EXCEEDS 1.2"). IN ADDITION, THE STRUCTURES SHOULD BE REPAIRED AND/OR REPLACED ON AN AS-NEEDED BASIS.

INFILTRATION BASIN -

VIGOROUS GROWING CONDITION FOR THE PERIOD OF 1 YEAR AFTER CONSTRUCTION HAS BEEN COMPLETED. IF A MINIMUM COVERAGE OF 50% IS NOT ACHIEVED AFTER THE SECOND GROWING SEASON. A REINFORCEMENT PLANTING IS REQUIRED.

– MAINTENANCE OF THE INFILTRATION BASIN SHALL BE IN ACCORDANCE WITH APPENDIX G OF THE NEW YORK STATE STORM WATER MANAGEMENT DESIGN MANUAL.

# MIN. SLOPE NOTES:

STABLE.

- 2. MAXIMUM SLOPE OF STOCKPILE SHALL BE 1V: 2H.
- OR COVERED

## SOIL PH SHALL BE TESTED, LIME SHALL BE APPLIED AS REQUIRED TO BRING SOIL PH TO 6.5-

NO SCALE

MULCH: LAYER OF COMMON HAY OR STRAW; 2 TONS PER ACRE-EXISTING GRADE

NO SCALE

NOTES



6. SURFACE WATER - ALL SURFACE WATER FLOWING OR DIVERTED TOWARD CON-

# – VEGETATION ON THE BASIN SIDE SLOPES AND FLOOR SHALL BE MAINTAINED IN DENSE AND



1. AREA CHOSEN FOR STOCKPILING OPERATIONS SHALL BE DRY AND

3. UPON COMPLETION OF SOIL STOCKPILING, EACH PILE SHALL BE SURROUNDED WITH SILT FENCING, THEN STABILIZED WITH VEGETATION

4. SEE SPECIFICATIONS FOR INSTALLATION OF SILT FENCE.

## TEMPORARY SOIL STOCKPILE DETAIL



1. TOPSOIL, SEED, MULCH, AND FERTILIZE DISTURBED SOIL AREAS THAT WILL BE LEFT EXPOSED FOR 14 DAYS OR MORE.

## TEMPORARY TOPSOIL, FERTILIZER, SEED & MULCH DETAIL











TEMPORARY CONCRETE WASH OUT AREA DETAIL NOT TO SCALE

DEEP TEST PITS PERFORMED IN AREA OF INFILTRATION BASINS ON WEDNESDAY 05/05/21 BY LAWRENCE J. PAGGI, P.E., P.C.

<u>DEEP TEST No.</u>	DEEP TEST DEPTH	EXISTING SOIL DESCRIPTION
DEEP TEST 1	7 FT.	0 – 8" TOPSOIL 8" – 3.5' MEDIUM–BROWN SANDY LOAM 3.5' – 7' DARK BROWN GRAVELLY SANDY LOAM NO ROCK, NO WATER
DEEP TEST 2	6 FT.	0 – 5" ASPHALT 5" – 3' MEDIUM–BROWN CLAYEY GRITTY LOAM 3' – 6' DARK BROWN GRAVELLY, SANDY LOAM NO ROCK, NO WATER
DEEP TEST 3	6 FT.	0 – 5" ASPHALT 5" – 2.5' MEDIUM–BROWN CLAYEY GRITTY LOAM 2.5' – 6' DARK BROWN GRAVELLY, SANDY LOAM NO ROCK, NO WATER
DEEP TEST 4	6 FT.	0 – 12"TOPSOIL (0–5"ASPHALT ON WEST SIDE OF TEST LOCATION) 12"– 6'MEDIUM TO DARK BROWN SANDY LOAM NO ROCK, NO WATER
DEEP TEST 5	6 FT.	0 – 12" TOPSOIL 12" – 18" MEDIUM–BROWN CLAYEY LOAM 18" – 6' LIGHT TO DARK BROWN SANDY GRAVELLY LOAM WITH SOME SMALL CLAY VEINS NO ROCK, NO WATER
DEEP TEST 6	6 FT.	0 – 12" TOPSOIL WITH ROOTS 12"–3' MEDIUM TO DARK BROWN SANDY LOAM 3'–6' DARK BROWN SANDY LOAM WITH SOME SMALL COBBLES NO ROCK, NO WATER
DEEP TEST 7	7 FT.	0 – 6" TOPSOIL WITH ROOTS 6"–3' MEDIUM BROWN SANDY LOAM 3'–7' DARK BROWN SANDY LOAM WITH SMALL COBBLES NO ROCK, NO WATER

PERCOLATION TEST RESULTS – PERFORMED 05/05/21 BY LAWRENCE J. PAGGI, P.E., P.C. TEST HOLE No. TEST HOLE DEPTH WATER DROP IN INCHES OVER ONE MINUTE

		RUN 1	RUN 2
PT1	6 FT.	12-INCHES	12-INCHES
PT2	5 FT.	12-INCHES	12-INCHES
PT3	5 FT.	24–INCHES	24-INCHES
PT4	4 FT.	24-INCHES	24—INCHES
PT5	4 FT.	24–INCHES	24-INCHES
PT6	5 FT.	24-INCHES	24-INCHES
PT7	6 FT.	24-INCHES	24-INCHES









- OVERLAP.
- SOIL MAY BE USED AS BACKFILL.)

TO PROPERLY ANCHOR THE RECP's.



9 OF 14

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- 1. THE TOPOGRAPHIC INFORMATION SHOWN HEREON IS BASED UPON THE USGS 3 COUNTY 2014 LIDAR COLLECTION (NEW YORK COUNTIES OF APPROXIMATE AND IS INTENDED FOR GENERAL INFORMATION ONLY. THE RIM AND INVERT ELEVATIONS SHOWN HEREON, AND USED FOR DESIGN, WERE TAKEN FROM AN UNDATED PLAN OF RECORD TITLED, PARTIAL AS
- 2. AERIAL IMAGERY INFORMATION SHOWN HEREON IS BASED ON A PLAN
- SEWER LINES WILL BE DIRECTIONAL DRILLED UNDER NYS ROUTE 52 AND
- OBSERVATION AND MEASUREMENTS PERFORMED BY LAWRENCE J. PAGGI,



TIME ALL VALVES AND HYDRANTS IN THE TREATED SECTION SHALL BE OPERATED TO ENSURE DISINFECTION OF THE APPURTENANCES. AT

APPROVED BY THE TOWN OF FISHKILL WATER DEPARTMENT AND THE CERTIFYING ENGINEER). THE HYDRANT INSTALLATION SHALL BE ANCHORED VIA RESTRAINED FITTINGS. ALL OTHER BENDS SHALL BE ANCHORED VIA RESTRAINED JOINTS IN LIEU OF THRUST BLOCKING. THE LENGTH OF RESTRAINED PIPE FOR EACH JOINT SHALL BE DICTATED BY THE CERTIFYING ENGINEER AT THE TIME OF INSTALLATION. INSTALLED HYDRANT MUST BE FLOW TESTED PRIOR TO ISSUANCE OF THE FIRST CERTIFICATE OF OCCUPANCY. THE TOWN WATER AND



TYPICAL PERMEABLE PAVERS DETAIL NOT TO SCALE

OR #80 SIEVE (ASTM D4751)

NO SCALE



### WORK ZONE TRAFFIC CONTROL NOTES

#### 1. GENERAL NOTES

A.WORK ZONE TRAFFIC CONTROL SHALL BE PROVIDED IN ACCORDANCE WITH SECTION 619 - WORK ZONE TRAFFIC CONTROL - OF THE NYSDOT STANDARD SPECIFICATIONS. THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES, NYSDOT STANDARD SHEETS 619 SERIES, AND ANY PROVISIONS CONTAINED IN THESE PLANS.

B.THE TYPICAL DETAILS DEPICTED ON THE STANDARD SHEETS, THE TRAFFIC CONTROL PLANS, AND IN THE MUTCD REFLECT THE MINIMUM REQUIREMENTS. ADDITIONAL SIGNS AND/OR TRAFFIC CONTROL DEVICES MAY BE REQUIRED AS ORDERED BY THE ENGINEER (AOBE), COST TO BE INCLUDED IN THE PRICE BID FOR THE APPROPRIATE ITEMS. IF AT ANY TIME THE ENGINEER DETERMINES THAT TRAFFIC IS NOT BEING PROPERLY MAINTAINED WITHIN A WORK ZONE, THE CONTRACTOR SHALL IMMEDIATELY CORRECT THE INDICATED DEFICIENCY, AOBE.

C.THE CONTRACTOR MUST SUBMIT TO THE ENGINEER, IN WRITING, PROPOSED REVISIONS TO THE TRAFFIC CONTROL PLAN FOR REVIEW AND APPROVAL BY THE NYSDOT/TOWN FIVE (5) WORKING DAYS PRIOR TO THE PLANNED IMPLEMENTATION OF SUCH PROPOSED REVISIONS, ÉXCEPT FOR CHÁNGES THAT ALTER THE BASIC CONCEPT OF THE TRAFFIC CONTROL PLAN. SUCH CONCEPTUAL CHANGES MUST BE SUBMITTED TO THE ENGINEER FOR APPROVAL BY THE TOWN THIRTY (30) WORKING DAYS PRIOR TO IMPLEMENTATION OF SUCH REVISIONS.

D.THE CONTRACTOR SHALL PROVIDE THE ENGINEER, IN WRITING, WITH THE NAMES, ADDRESSES, AND TELEPHONE NUMBERS OF STAFF WHO ARE AUTHORIZED TO SECURE LABOR, MATERIALS, AND EQUIPMENT FOR EMERGENCY REPAIRS OUTSIDE NORMAL WORKING HOURS. THE ENGINEER WILL PROVIDE THE SUBMITTED INFORMATION TO NYSDOT, REGIONAL MANAGEMENT, THE NEW YORK STATE POLICE, THE RESIDENT ENGINEER, THE TOWN, AND THE LOCAL POLICE.

E.PRIOR TO THE START OF ANY WORK OPERATIONS, ALL RELATED WORK FOR PROPOSED WORK ZONE TRAFFIC CONTROL, AOBE, SHALL BE COMPLETE. THIS INCLUDES BUT IS NOT LIMITED TO, ALL SIGNS, SIGNALS, PAVEMENT MARKINGS, BARRIERS, DELINEATION (CONES, DRUMS, ETC.) FLAGGERS, PAVEMENT MODIFICATIONS, AND ANY OTHER RELATED WORK.

F. THE CONTRACTOR SHALL PROVIDE AND MAINTAIN SAFE AND ADEQUATE INGRESS AND EGRESS TO AND FROM INTERSECTING HIGHWAYS, HOMES AND COMMERCIAL ESTABLISHMENTS AT ALL TIMES TO THE SATISFACTION OF THE ENGINEER. THIS WORK SHALL BE PERFORMED IN ACCORDANCE WITH ITEM 619.01 SECTION 619-3.02(C) OF NYSDOT STANDARD SPECIFICATIONS.

G.THE TRANSPORTATION MANAGEMENT CENTER (TMC) SHALL BE NOTIFIED BEFORE ANY WORK IS STARTED ON A STATE HIGHWAY. THE NOTIFICATION AND COORDINATION WITH THE TMC SHALL BE MADE THRU THE NYSDOT REPRESENTATIVE ASSIGNED TO THE PROJECT (DOT INSPECTOR OR RESIDENCY).

2. STANDARD SHEETS 619-10, 11, AND 12 CRITERIA

THE CONTRACTOR SHALL REFER TO THE FOLLOWING CRITERIA WHILE UTILIZING THE NYSDOT STANDARD SHEETS:

- A. PRECONSTRUCTION POSTED SPEED LIMIT: 45 MPH
- B. TYPE OF ROADWAY: CONVENTIONAL ROAD
- C. SETTING: URBAN

#### 3. TIME / DATE RESTRICTIONS

A.THERE SHALL BE NO TEMPORARY LANE CLOSURES ON THE FOLLOWING HOLIDAY DATES AND TIMES:

6:00 AM DEC 30 (2021) TO 6:00 AM JAN 3 (2022) 6:00 AM MAY 27 TO 6:00 AM MAY 31 6:00 AM JULY 1 TO 6:00 AM JULY 5 6:00 AM SEPT 2 TO 6:00 AM SEPT 6 6:00 AM NOV 24 TO 6:00 AM NOV 28 6:00 AM DEC 23 TO 6:00 AM DEC 27

6:00 AM DEC 30 (2022) TO 6:00 AM JAN 3 (2023) 6:00 AM MAY 26 TO 6:00 AM MAY 30 6:00 AM JULY 1 TO 6:00 AM JULY 5

6:00 AM SEPT 1 TO 6:00 AM SEPT 5 6:00 AM NOV 22 TO 6:00 AM NOV 27 6:00 AM DEC 22 TO 6:00 AM DEC 26

B.THERE SHALL BE NO TEMPORARY LANE CLOSURES ON RT 52 BETWEEN THE FOLLOWING HOURS: MONDAY THROUGH FRIDAY7 AM TO 9 AM 4 PM TO 6 PM

C.THE CONTRACTOR SHALL NOT BEGIN WARMING UP EQUIPMENT BEFORE THE SCHEDULED START TIMES, NOR KEEP THE EQUIPMENT RUNNING AFTER THE SCHEDULED QUIT TIMES. MAINTENANCE OF EQUIPMENT ON SITE WHICH REQUIRES THE EQUIPMENT TO BE RUNNING SHALL BE APPROVED BY THE ENGINEER IF THE MAINTENANCE IS PERFORMED OUTSIDE THE WORK HOUR RESTRICTIONS.

D.THERE SHALL BE NO WORK OPERATIONS ALLOWED BEFORE SUNRISE OR AFTER SUNSET WITHOUT APPROVAL OF THE NYSDOT/ENGINEER AND AN APPROVED LIGHTING PLAN. THE LIGHTING PLAN SHALL BE APPROVED PRIOR TO THE START OF WORK BY THE NYSDOT.

#### 4. WORK ZONE REQUIREMENTS

A. THE MINIMUM WIDTH OF TRAVEL LANES WITHIN THE WORK ZONE IS 10 FEET.

B.WORK ZONES ON OPPOSITE SIDES OF THE ROAD SHALL NOT OVERLAP. A WORK ZONE IS DEFINED AS THAT AREA IN WHICH TRAFFIC IS RESTRICTED BECAUSE OF CONSTRUCTION ACTIVITIES, OR THAT AREA WHICH INVOLVES A DROP-OFF WITHIN 10 FEET OF THE EDGE OF PAVEMENT.

5. CONSTRUCTION VEHICLES, EQUIPMENT, AND MATERIALS

A.THE CLEAR ROADSIDE AREA IS DEFINED AS THE AREA WITHIN 10 FEET OF THE EDGE OF THE TRAVEL WAY.

B.CONTRACTOR VEHICLES NOT IN USE AND PRIVATE VEHICLES OWNED BY CONTRACTOR'S EMPLOYEES SHALL

NOT BE PARKED IN THE CLEAR ROADSIDE AREA, OR ANY OTHER LOCATION CONSIDERED BY THE ENGINEER TO BE A HAZARD. THIS REQUIREMENT IS NOT LIMITED TO THE CONTRACT LIMITS. C.NO MATERIAL IS TO BE STORED WITHIN THE CLEAR ROADSIDE AREA WITHOUT THE APPROVAL OF THE ENGINEER.

D.VEHICLES BELONGING TO THE CONTRACTOR OR THE CONTRACTOR'S EMPLOYEES SHALL NOT BE PARKED IN A MANNER WHICH OBSTRUCTS SIGNS, BARRIERS, BARRICADES, OR OTHER TRAFFIC CONTROL DEVICES.

E.VEHICLES BELONGING TO THE CONTRACTOR OR THE CONTRACTOR'S EMPLOYEES SHALL NOT BE PARKED IN A MANNER WHICH INTERFERES WITH ACCESS TO ABUTTING PROPERTIES.

F.THE CONTRACTOR SHALL PLAN AND INCORPORATE ACCESS POINTS INTO THE WORK ZONE SUCH THAT, TO THE EXTENT PRACTICAL, THE CONTRACTOR'S VEHICLES ENTERING AND LEAVING THE WORK ZONE SHALL NOT IMPEDE THE MOVEMENT OF THROUGH TRAFFIC IN THE ADJACENT OPEN LANES.

#### 6. CHANNELIZING DEVICES

A.WHERE POSSIBLE ALL CHANNELIZING AND GUIDING DEVICES ARE TO BE PLACED SO AS TO PROVIDE A MINIMUM 1 FOOT LATERAL CLEARANCE TO THE TRAVELED WAY.

B.THE CONTRACTOR SHALL NOT MIX CHANNELIZATION DEVICES IN A LINEAR CLOSURE OR TAPER I.E. CONES, VERTICAL PANELS AND DRUMS SHALL NOT BE USED IN THE SAME TAPER OR CLOSURE. HOWEVER, DIFFERENT CHANNELIZATION DEVICES MAY BE USED IN DIFFERENT AREAS OF A PROJECT

C.REFLECTORIZED PLASTIC DRUM DELINEATORS SHALL BE USED AT HAZARDOUS LOCATIONS DETERMINED BY THE ENGINEER. DELINEATORS SHALL REMAIN IN PLACE UNTIL SATISFACTORY PROTECTION IS PROVIDED. DELINEATORS SHALL BE SPACED AT A DISTANCE NOT TO EXCEED 25 FEET, OR AS DIRECTED BY THE ENGINEER.

#### 7. FLAGGING AND TRAFFIC CONTROL

A.THE USE OF TEMPORARY SIGNALS AS A SUBSTITUTE FOR FLAGGERS WILL NOT BE ALLOWED ON THIS PROJECT.

B.FLAGGER SIGNS SHALL NOT BE USED FOR BRIEF PERIODS OF INCIDENTAL FLAGGING, AOBE. FLAGGER SIGNS SHALL NOT BE VISIBLE WHEN FLAGGERS ARE NOT BEING USED.

C.WHEN A SIDE ROAD OR DRIVEWAY INTERSECTS THE ROADWAY WITHIN A WORK ZONE TRAFFIC CONTROL AREA, ADDITIONAL TEMPORARY TRAFFIC CONTROL DEVICES AND/OR FLAGGERS SHALL BE PLACED AS NEEDED. ADDITIONAL FLAGGERS SHALL BE LOCATED AS NEEDED AT ALL INTERSECTIONS AND COMMERCIAL DRIVEWAYS LOCATED WITHIN OR NEAR THE ACTIVE WORK SPACE.

#### 8. SIGNS AND DEVICES

A.DIAMOND-SHAPED ADVANCE WARNING SIGNS SHALL BE USED FOR ALL ADVANCE WARNING SIGNS SHOWN IN PART 6 OF THE MUTCD. COLOR REQUIREMENTS SHALL BE BLACK TEXT ON ORANGE BACKGROUND. B.THE CORRECT SPACING OF SIGNS, EITHER PERMANENT OR TEMPORARY MUST BE MAINTAINED AT ALL TIMES IN ACCORDANCE WITH THE MUTCD UNLESS SHOWN OTHERWISE ON THE PLANS. ALL SIGNS INCLUDING GUIDE SIGNS SHALL INDICATE ACTUAL CONDITIONS AT ALL TIMES AND SHALL BE COVERED, MOVED, REMOVED, OR CHANGED IMMEDIATELY AS ORDERED BY THE ENGINEER.

SUBJECT TO APPROVAL OF THE ENGINEER.

OTHERWISE REPLACED IN THIS CONTRACT.

OF SIGHT. F.ALL WARNING AND REGULATORY SIGNS SHALL BE POSTED ON BOTH SIDES OF ONE-WAY STREETS. IN CASES

A.THE CONTRACTOR IS REQUIRED TO CONTACT THE APPROPRIATE SCHOOL AND EMERGENCY SERVICES ORGANIZATIONS WITH RESPECT TO THE EFFECT OF ROAD WORK, TRAVEL LANE REDUCTIONS, AND DETOURS ON OPERATIONS. THIS CONTACT SHALL BE MADE AS CONDITIONS CHANGE AND AT LEAST TWO WEEKS PRIOR TO IMPLEMENTING EACH TRAFFIC PHASE AND/OR DETOUR TO ALLOW ADEQUATE TIME FOR THE ORGANIZATIONS TO COORDINATE AND MAKE NECESSARY ADJÚSTMENTS TO RESPONSE SCHEDULES AND ROUTES.

B.THE CONTRACTOR IS REQUIRED TO CONTACT THE APPROPRIATE TRANSIT OFFICIALS IN RESPECT TO THE EFFECT OF ROAD ALTERATIONS ON BUS OPERATIONS. THIS SHOULD BE DONE FOUR WEEKS IN ADVANCE OF ANY CHANGES IN TRAFFIC PATTERNS OR IMPLEMENTATION OF WORK ZONES SO THAT THERE WILL BE ADEQUATE TIME FOR TRANSIT OFFICIALS TO NOTIFY PERSONNEL OF THE EFFECTS TO SCHEDULES AND ROUTES. THE CONTRACTOR SHALL MAKE PROVISIONS FOR THE SAFE INGRESS AND EGRESS OF PASSENGERS AT EXISTING OR TEMPORARILY RELOCATED BUS STOPS.

10. BICYCLISTS AND PEDESTRIANS

AND TERMINUS.

B.THE CONTRACTOR SHALL PROVIDE, DELINEATE AND MAINTAIN A USABLE TRAVEL PATH FOR PEDESTRIANS EITHER THROUGH OR AROUND WORK ZONES FOR THE DURATION OF THIS PROJECT. THE TRAVEL PATH SHALL COMPLY WITH THE CONTINUOUS PASSAGE PROVISIONS OF THE CURRENT AMERICANS WITH DISABILITIES ACT ACCESSIBILITY GUIDELINES (ADAAG). THE CONTRACTOR MAY UTILIZE ANY COMBINATION OF THE FOLLOWING TO PROVIDE THE USABLE TRAVEL PATH; EXISTING SIDEWALKS/SHOULDERS; TEMPORARY SIDEWALKS/SHOULDERS; FINAL SIDEWALKS/SHOULDERS; AND EXISTING OR TEMPORARY SIDEWALK CURB RAMPS. THE USABLE TRAVEL PATH SHALL BE CLEARLY MARKED AND STAGED BETWEEN INTERSECTING ROADS TO ENSURE SAFE PEDESTRIAN CROSSING AND ACCESSIBILITY. PEDESTRIAN ACCESS TO RESIDENTIAL AND COMMERCIAL PROPERTIES SHALL BE MAINTAINED FOR THE DURATION OF CONSTRUCTION.

ASSESSMENT OF LIQUIDATED DAMAGES AS DEFINED IN THE SPECIAL NOTES

NO COST TO THE TOWN OR STATE. BASIC WORK ZONE TRAFFIC CONTROL, ITEM 619.01.

ACCESS TO AND FROM THE BUS.

C.THE LOCATION OF THE SIGNS SHOWN ON THE WORK ZONE TRAFFIC CONTROL PLANS AND DETAILS MAY BE ADJUSTED BASED ON SIGHT DISTANCE AND OTHER CONSIDERATIONS. THE FINAL LOCATIONS OF SIGNS ARE

D.ANY EXISTING SIGNS, INCLUDING OVERHEAD SIGNS, WHICH CONFLICT WITH THE TEMPORARY TRAFFIC CONTROL SIGNS LAYOUT SHALL BE COVERED, REMOVED, STORED OR RESET, AS APPROVED BY THE ENGINEER, ALL APPROPRIATE EXISTING SIGNS SHALL BE RESTORED TO THEIR ORIGINAL CONDITION AND/OR LOCATION UNLESS

E.SIGNS AT OR NEAR INTERSECTIONS SHALL BE PLACED SO THAT THEY DO NOT OBSTRUCT A MOTORIST'S LINE

WHERE LANE RESTRICTIONS REDUCE THE TRAVEL LANE TO ONE LANE, SIGNS SHALL BE POSTED ON THE RIGHT SIDE OF THE ACTIVE TRAVEL LANE, UNLESS OTHERWISE AUTHORIZED BY THE ENGINEER.

G.EXPRESSWAY SIZE SIGNING SHALL BE USED ON ALL MULTI-LANE HIGHWAYS. CONVENTIONAL HIGHWAY SIZE SIGNING SHALL BE USED AT ALL OTHER LOCATIONS.

## 9. NOTIFICATION AND EMERGENCY ACCESS

A.THE CONTRACTOR SHALL MAINTAIN PEDESTRIAN AND BICYCLE TRAFFIC THROUGH OR AROUND EACH WORK AREA FOR THE DURATION OF THE CONSTRUCTION. MATERIAL, EQUIPMENT OR OTHER SUCH BARRIERS SHALL NOT BE PLACED OR PARKED IN SUCH A MANNER AS TO OBSTRUCT PEDESTRIAN OR BICYCLE TRAFFIC OR TO PRESENT A SAFETY HAZARD TO THE NON-MOTORIZED PUBLIC. WHERE PEDESTRIAN TRAFFIC MUST BE RELOCATED OFF THE EXISTING FACILITY, WALKWAYS SHALL BE CLEARLY MARKED AND HAVE A LOGICAL START

C.ALL LABOR, MATERIALS AND EQUIPMENT NECESSARY TO INSTALL AND REMOVE TEMPORARY SIDEWALK AND CURB RAMPS, INCLUDING THE RESTORATION OF DISTURBED AREAS. SHALL BE INCLUDED IN THE PRICE BID FOR ITEM 608.020102, ASPHALT CONCRETE SIDEWALKS, DRIVEWAYS AND BICYCLE PATHS.

D.FOR LOCATIONS WHERE EXISTING SIDEWALK WAS REMOVED OR NEW SIDEWALKS ARE PROPOSED, THE CONTRACTOR SHALL PROVIDE A SURFACE MEETING ADAAG REQUIREMENTS WITHIN TWO WEEKS (14 CALENDAR DAYS) OF EXISTING SIDEWALK REMOVAL OR CURB INSTALLATION. WHICHEVER IS LESS. THE CONTRACTOR MAY ALLOW PEDESTRIAN TRAFFIC TO USE THE COMPACTED SURFACE FOR A MAXIMUM OF TWO WEEKS (14 CALENDAR DAYS). AFTER THE TWO WEEK PERIOD THE CONTRACTOR MUST PROVIDE A PAVED SURFACE (FINAL OR TEMPORARY) MEETING THE ADAAG REQUIREMENTS. IF THE CONTRACTOR CHOOSES NOT TO PLACE THE FINAL SIDEWALK SURFACE, NO SEPARATE PAYMENT WILL BE MADE FOR THE TEMPORARY SURFACE. THE CONTRACTOR MUST ALSO PROVIDE CURB RAMPS IN ACCORDANCE WITH ADAAG REQUIREMENTS. IF THE CONTRACTOR CHOOSES TO PROVIDE THE FINAL SIDEWALK SURFACE AFTER THE TWO WEEK PERIOD. A TEMPORARY CURB RAMP MAY BE INSTALLED. THE COST OF THIS TEMPORARY RAMP IS TO BE INCLUDED IN THE PRICE BID FOR BASIC WORK ZONE TRAFFIC CONTROL. FAILURE TO PROVIDE THIS PAVED SURFACE WILL RESULT IN THE

E.ANY CONSTRUCTION ACTIVITY THAT RESULTS IN THE BREAKAGE OF SLABS OR THE REMOVAL OF SEGMENTS OF FXISTING SIDEWALK SERVING AS THE USABLE TRAVEL PATH SHALL BE REPAIRED IMMEDIATELY USING ASPHALT CONCRETE MEETING THE REQUIREMENTS OF SECTION 608 OF THE STANDARD SPECIFICATIONS. THE REPAIRED SURFACE SHALL BE IN CONFORMANCE WITH THE CRITERIA OUTLINED ABOVE, AS WELL AS THOSE CONTAINED IN THE ADAAG. SIDEWALK REPAIRS DUE TO REQUIRED CONSTRUCTION ACTIVITIES SHALL BE PAID FOR UNDER 608.020102. ASPHALT CONCRETE SIDEWALKS. DRIVEWAYS AND BICYCLE PATHS. SIDEWALK THAT IS DAMAGED BY CARELESS CONSTRUCTION ACTIVITIES OR PRACTICES SHALL BE IMMEDIATELY REPAIRED, AOBE, AT

F.TEMPORARY SAFETY FENCING SHALL BE PLACED ALONG ANY SIDEWALK ADJACENT TO ANY EXCAVATION OR VERTICAL DROP-OFF OVER 6 INCHES. SAFETY FENCING SHALL BE CONTINUOUS PLASTIC FLUORESCENT ORANGE SUPPORTED BY METAL OR WOOD POSTS. THE FENCING SHALL BE A MINIMUM OF 4 FEET IN HEIGHT AND MAY INCLUDE A TOP AND BOTTOM RAIL TO PROVIDE ADDITIONAL SUPPORT, AOBE. THE SAFETY FENCE SHALL CONFORM TO SECTION 107-05 OF THE STANDARD SPECIFICATIONS. ALL LABOR, MATERIALS AND EQUIPMENT NECESSARY TO INSTALL AND REMOVE TEMPORARY SAFETY FENCING SHALL BE INCLUDED IN THE PRICE BID FOR

G.THE CONTRACTOR SHALL PROVIDE A USABLE TRAVEL PATH AT ALL BUS STOP LOCATIONS TO PROVIDE SAFE









THE TOPOGRAPHIC INFORMATION SHOWN HEREON IS BASED UPON THE USGS 3 COUNTY 2014 LIDAR COLLECTION (NEW YORK COUNTIES OF ULSTER, DUTCHESS AND ORANGE) PUBLISHED BY THE NYS GIS CLEARINGHOUSE. THIS INFORMATION SHOULD BE CONSIDERED APPROXIMATE AND IS INTENDED FOR GENERAL INFORMATION ONLY. THE RIM AND INVERT ELEVATIONS SHOWN HEREON, AND USED FOR DESIGN, WERE TAKEN FROM AN UNDATED PLAN OF RECORD TITLED, PARTIAL AS BUILT OF DPSD IN DUTCHESS PARK SHOPPING CENTER.

AERIAL IMAGERY INFORMATION SHOWN HEREON IS BASED ON A PLAN ENTITLED "PROPOSED WATER & SEWER EXTENSION" PREPARED BY CLARK, PATTERSON AND LEE ARCHITECTURE, ENGINEERING AND PLANNING FOR THE TOWN OF FISHKILL. DATED FEBRUARY 1, 2021.

3. WATER LINE WILL BE DIRECTIONAL DRILLED UNDER NYS ROUTE 52 AND MAJORITY OF THE DUTCHESS PARK SHOPPING CENTER AND OFFICE COMPLEX.

4. PROPOSED WATER LINE WILL BE DEDICATED TO THE TOWN OF FISHKILL.

5. LOCATIONS OF THE EXISTING CATCH BASINS ARE BASED ON SITE OBSERVATION AND MEASUREMENTS PERFORMED BY LAWRENCE J. PAGGI, P.E., P.C. ON MARCH 15, 2022.







# OFF-SITE SIGNAL IMPROVEMENTS NY ROUTE 52/ROMBOUT FIRE STATION #2 TOWN OF FISHKILL DUTCHESS COUNTY, NEW YORK

PREPARED FOR: ROMBOUT FIRE DISTRICT 901 MAIN STREET FISHKILL, NY 12524



NOT TO SCALE

FILE NAME = N:NP-ojects/2021/121-286 Pagg1 - Rombout Fire Signal/Working/CADD/dgn/121-286.cph.cvr.dgn DATE/TIME = 11/29/2022 USER = dkarkotsky THE LATEST REVISIONS OF THE NYSDOT STANDARD SHEETS MAINTAINED BY THE DEPARTMENT, WHICH ARE CURRENT ON THE DATE OF ADVERTISEMENT FOR BIDS, SHALL BE CONSIDERED TO BE IN EFFECT, ALL PAY ITEMS AND WORK CONTAINED IN THE CONTRACT AND ANY ADDITIONAL PAY ITEMS AND WORK ENCOUNTERED DURING THE COURSE OF THE CONTRACT SHALL BE SUBJECT TO THE APPLICABLE STANDARD SHEET(S) UNLESS OTHERWISE SPECIFIED IN THE CONTRACT DOCUMENTS.

ALL WORK CONTEMPLATED UNDER THIS CONTRACT IS TO BE COVERED BY AND IN CONFORMITY WITH THE NYSDOT STANDARD SPECIFICATIONS (US CUSTOMARY) MAINTAINED BY THE DEPARTMENT WHICH ARE CURRENT ON THE DATE OF ADVERTISEMENT FOR BIDS EXCEPT AS MODIFIED BY THESE PLANS OR BY CHANGES SET FORTH IN THE CONTRACT DOCUMENTS.

CONTRACT PLANS HAVE BEEN DESIGNED IN ACCORDANCE WITH NYSDOT POLICIES AND GUIDELINES.

IT IS A VIOLATION OF LAW FOR ANY PERSON, UNLESS THEY ARE ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENCIMEER, ARCHITECT, LANDSCAPE ARCHITECT, OR LAND SURVEYOR, TO ALTER AN ITEM IN ANY WAY. IF AN ITEM BEARING THE STAMP OF A LICENSED PROFESSIONAL IS ALTERED, THE ALTERING ENGINEER, ARCHITECT, LANDSCAPE ARCHITECT, OR LAND SURVEYOR SHALL STAMP THE DOCUMENT AND INCLUDE THE NOTATION "ALTERED BY" FOLLOWED BY THEIR SIGNATURE, THE DATE OF SUCH ALTERATION, AND A SPECIFIC DESCRIPTION OF THE ALTERATION.

PREPARED	AND	RECOMMENDED	BY:		
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SUBMISSION:	FINAL	NOVE	MBER	2022
FED. ROAD REG. NO. STATE SHEET NO. TOTAL SHEETS				
1 N.Y. 1 12			12	
CAPITAL PROJECT IDENTIFICATION NO. N/A CM* 121-286				

	ALIGNMENT		TOPOGRA	PHY (MISCELLANEOUS)		UTILITIES				
ABBR.	DESCRIPTION	ABBR.	DESCRIPTI	DN		ABBR.	DESCRIPTION			
AH	AHEAD	ABUT	ABUTMENT			E	ELECTRIC			
AZ	AZIMUTH	AOBE	AS ORDERED	BY ENGINEER		EMH	ELECTRIC MANHOLE			
BK	BACK	ASPH	ASPHALT			G	GAS			
<u>B</u>	BASELINE	BDY	BOUNDARY			GP	GUY POLE			
BRG		BLDG				GSB	GAS SERVICE BOX (HOUSE LINE)			
							HYDRANT			
e 05	SUPERELEVATION RATE (CROSS SLOPE)	CONC	CONCRETE	CENTER		I P				
EQ	EQUALITY	CONST	CONSTRUCTI	ON		LPG	LOW PRESSURE GAS			
EXT	EXTERNAL	CR	COUNTY ROA	D		PP	POWER POLE			
HCL	HORIZONTAL CONTROL LINE	D	DEED DISTA	NCE		SA	SANITARY SEWER			
HSD	HEADLIGHT SIGHT DISTANCE	DM	DIRECT MEA	SUREMENT		SMH	SANITARY MANHOLE			
				VENENT		51 T				
						TCB	TRAFFIC CONTROL BOX			
E E	CENTER CORRECTION OF VERTICAL CURVE	FEE	FEE ACQUIS	ITION		TELBOX	TELEPHONE BOX			
M	MAIN LINE	FEE WO/A	FEE ACQUIS	ITION WITHOUT ACCESS		TEL P	TELEPHONE POLE			
PC	POINT OF CURVATURE	FP	FENCE POST			TMH	TELEPHONE MANHOLE			
PI	POINT OF INTERSECTION	FD	FOUNDATION			CTV	CABLE TELEVISION			
POL	POINT ON LINE	FL	FENCE LINE			W	WATER			
PSD PT	PASSING SIGHT DISTANCE		GARAGE			WSB WV	WATER VALVE ANATALITAEN			
		<u> </u>				WV	WATER VALVE (MAIN LINE)			
PVI			HIGHWAY				SUBSURFACE EXPLORATION			
PVT	POINT OF VERTICAL TANGENT	IP	IRON PIN OF	RON PIPE		ABBR	DESCRIPTION			
R	RADIUS	МВ	MAILBOX		-					
SC	SPIRAL TO CURVE	MON	MONUMENT			REPI	LACE ABBREVIATION "AB" WITH:			
SSD	STOPPING SIGHT DISTANCE	N&W	NAIL AND W	ASHER		AH	HAND AUGER			
	SPIRAL 10 IANGENI	00	ORIGINAL G	ROUND						
						DM	274 INCHES CASED DRILL HOLE			
TGI		ΡΔΥΊ				DN	4 INCHES CASED DRILL HOLE			
TS	TANGENT TO SPIRAL	PE	E PERMANENT EASEMENT			FH	HOLLOW FLIGHT AUGER			
VC	VERTICAL CURVE	PED POLE	PEDESTRIAN	POLE		PA	POWER AUGER			
	TOPOGRAPHY (DRAINAGE)	P	PROPERTY L	INE		PH	PROBE			
		POR	PORCH			PT	PERCOLATION TEST HOLE			
ADDR.		RR	RAILROAD			RP	1 INCH SAMPLER (RETRACTABLE PLUG)			
BC	BOTTOM OF BANK (STREAM)	RIE		A V		CD	TO BE DEFINED AT THE TIME OF EXPLORATION			
BO		RW					TEST PIT			
CAP	CORRUGATED ALUMINUM PIPE	SH	STATE HIGH	WAY		ABBREVI	ATION "C" IN CATEGORIES:			
СВ	CATCH BASIN	SHLDR	SHOULDER			DA, DM,	DN, AND FH WITH:			
CIP	CAST IRON PIPE	SPK	SPIKE			В	BRIDGE			
©_STRM	CENTERLINE OF STREAM	ST	STREET			C	CUT			
CMP	CORRUGATED METAL PIPE	STK	STAKE			D	DAM			
			STORT			F				
	CULVERT		TEMPORARY	EASEMENT		W	WALL			
DIA	DIAMETER	TO	TEMPORARY	OCCUPANCY		X	TO BE USED IF ONE OF THE ABOVE CANNOT			
DMH	DRAINAGE MANHOLE	U/G	UNDERGROUN	D			BE DEFINED AT THE TIME THE EXPLORATION			
DS	DRAINAGE STRUCTURE PIPE	WW	WING WALL				10 MADE			
D'XING	DITCH CROSSING									
EHW	L EXIREME HIGH WATER	4 [	STANDARD	ITEM PAYMENT UNIT:	EQUIV	ALENT				
			SYMBOL	ESTIMATE OF	NOME	VCLATURE:				
ELW	EXTREME LOW WATER	1	(PLANS)	QUANTITIES SHEET	(SPEC	S/PROPOS/	AL)			
ES	END SECTION	1 E	"	-	INCHES	S				
HW	HEADWALL	] [	,	LF	LINEAF	RFEET				
INV	INVERT		mi	MI	MILES					
MH	MANHOLE	4 -	<u>ft</u> <sup>2</sup>	SF		E FEET	———————————————————————————————————————			
MHW		4 - F		51		e tard	———————————————————————————————————————			
		1 F	YD3	CY		YARD				
RCP	REINFORCED CONCRETE PIPE	1	GAL	GAL	GALLO	N				
SICPP	SMOOTH INTERIOR CORRUGATED POLYETHYLENE PIPE	1	lb	LB	POUND					
ТВ	TOP OF BANK (STREAM)	] [	TON	TON	TON					
TC	TOP OF CURB	]								
TG	TOP OF GRATE	4								
I VCP										

	INDEX	TOTAL NUMBER OF SHEETS: 12
SHEET NUMBER	DESCRIPTION	DRAWING NUMBER
1	COVER	COVER
2	INDEX AND ABBREVIATIONS	IND-01
3	POINT LEGEND	LEG-01
4	LINE LEGEND	LEG-02
5	GENERAL NOTES	GNN-01
6	WORK ZONE TRAFFIC CONTROL NOTES	WZN-01
7	TRAFFIC SIGNAL NOTES	TSN-01
8	TRAFFIC SIGNAL DETAILS	TSD-01
9-12	TRAFFIC SIGNAL PLAN	TSP-01 TO TSP-01C

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		ALIGNMENT			DRAINAGE			ITS		R	OW MAPPING			SIGNS			UTILITIES
CEL	NAME	DESCRIPTION	CELL	NAME	DESCRIPTION	CELL	NAME	DESCRIPTION	CELL	NAME	DESCRIPTION	CELL	NAME	DESCRIPTION	CELL	NAME	DESCRIPTION
⊛	ACC	CENTER OF CURVATURE	+	DINV	INVERT	\$	IANT_P	ANTENNAS	Ð	MDL1P	DEED LINE, TYPE 1	+	S	SINGLE POST	Ē	UEB	ELECTRIC, BOX
+	ACOGO	COGO		DS	STRUCTURE, RECTANGULAR		IASCTS	ACCOU. SPEED/COUNT SNSR.S	Ø	MDL2P	DEED LINE, TYPE 2	Ð	S_P	SINGLE POST, PROPOSED	E	UEM	ELECTRIC, METER
0	ACS	CURVE TO SPIRAL	+	DSI	STRUCTURE, INVERT	P	ICABPAD	CABINET & PAD	3	MDL3P	DEED LINE, TYPE 3	þ	SB_P	BACK TO BACK, PROPOSED	Ð	UEMH	ELECTRIC, MANHOLE
	ADPI_P	DETOUR, POINT OF INTERSECT.		DSM			ICCTV	CCTV SITE	Ð	MDL4P	DEED LINE, TYPE 4		SDEL	DELINEATORS	$\Phi$	UEPT	ELECTRIC, POLE, TRANS.
0	ADPL_P	DETOUR, POINT ON LINE		DOM		) Ì Ì Ì Ì	ICDPD	CDPD TRANSCEIVER	9	MDL5P	DEED LINE, TYPE 5	$\oplus$	SPM	PARKING METER	G	UGM	GAS, METER
0	AEQN	EQUATION	$\langle\!\langle \bigotimes \rangle\!\rangle$	DSMTXX_P	TYPE "XX"	*	ICELLT	CELL PHONE TOWER	٢	MEEP	EASEMENT, EXISTING	RFM	SRM	REFERENCE MARKERS	G	UGMH	GAS, MANHOLE
	AEQNAHD	EQUATION AHEAD		DSR	STRUCTURE, ROUND	<b>⊢</b> →	ICJB	CONDUIT JACK OR BORING	۲	MEPAP_P	EASEMENT, PERM., APPROX.	$\bigcirc$	SRSC3	SHLD, CTY, 123 DIG.	~©~	UGLM	GAS, LINE MARKER
®	AEQNBK	EQUATION BACK	<u>[:]</u>	bon			ICNTLCAB	CONTROLLER CABINET	0	MEPP_P	EASEMENT, PERM., BACK LINE	Ŏ	SRSC4	SHLD, CTY, 4 DIG.	FP	UGP	GAS/FUEL PUMP
0	AEVT	EVENT STATION		DST"X"CB_P	TYPE "X" "X" = F. G. N. O. P. R	Ø	ICPB	COMMUNICATION PULL BOX	0	MEPSP_P	EASEMENT, PERM., SHAPE		SRSCT2	SHLD, CTY TOUR, 1-2 DIG.	Å	UGV	GAS, VALVE
0	APC	POINT OF CURVATURE				<u> </u>	ICTD	CONDUIT TURNING DOWN		MFAP_P	FEE ACQUISITION, APPROX.		SRSCT4	SHLD, CTY TOUR, 3-4 DIG.	$\bigotimes$	UGVT	GAS, VENT
$\odot$	APCC	POINT OF COMPOUND CURVATURE		DST"X"_P	"X" = I, K, L, M, O, P, U		ІСТИ	CONDUIT TURNING UP	<b>۞</b>	MFP_P	FEE ACQUISITION, BACK LINE	$\overline{\Box}$	SRSI	SHLD, INTERSTATE	<u>О</u> -О	ULP	LIGHTING, POLE
	API	POINT OF INTERSECTION		FN	VIRONMENTAL	)ó(	ICVTRT	COMM. VEH. ROAD TRANSCEIVER	<b>\$</b>	MFSP_P	FEE ACQUISITION, SHAPE	Ŭ	SRSN2	SHLD, NATIONAL, 2 DIG.	a-⊙-o	ULPM	LIGHTING, POLE, MEDIAN
	APOB	POINT OF BEGINNING				+	IDEFAULT	DEFAULT	*	MHBAP	HIGHWAY BNDRY., APPROX.	$\Box$	SRSN3	SHLD, NATIONAL, 3 DIG.	0	ULPP	LIGHTING, POLE, PED.
$\odot$	APOC	POINT OF CURVATURE	CULV	EI0P_P	STR., INLET, OUTLET PROT.	EZ	IEZR	E-ZPASS READER	۲	мнвср	HISTORICAL, BLDG. CORNERS	$\bigcirc$	SRSS2	SHLD, STATE, 2 DIG.		UMFC	MISC. FILLER CAP
	APOE	POINT OF END	Ť.		STR., INLET PROT., GRAVEL BAG	EZ-T	IEZTR	TRANSMITTAL READER	*	MHBP	HIGHWAY BNDRY, PT.	Ó	SRSS3	SHLD, STATE, 3 DIG.	-∕\$	UOLM	OIL, LINE MARKER
$\odot$	APOL	POINT ON LINE				□ xc	IFOXCAB	FIBER OPTIC X-CONNECT CABINET	<b>(</b>	MJCP	PT., JURIS. CITY	$\overline{\bigcirc}$	SRSS4	SHLD, STATE, 4 DIG.		UP	POLE, WITH UTILITY
$\odot$	APOS	POINT ON SPIRAL	(H/S)	EIPHS_P	STR., INLET PROT., HAY/STRAW	-0-	IFUSSPL	FUSION SPLICE	۲	мрвс	PT., BUILDING CORNER	Ť	TRA		$\odot$	UPD	POLE, DEAD (NO UTILITY)
$\odot$	APOT	POINT ON TANGENT	<u>+</u>		STR INLET PROT PREEAB	<del>çç</del>	IHARADV	HAR ADVISORY SIGN	Ø	MPCC	PT., CROSS CUT	<u> </u>				UPL	POLE, WITH LIGHT
	APOVC	POINT ON VERTICAL CURVE	PRFB			政	IHARST	HAR SITE	Ý	MPDH	PT., DRILL HOLE		TCBJ	BOX, JUNCTION	5	USMH	SANITARY SEWER MANHOLE
	APOVT	POINT ON VERTICAL TANGENT	SF	EIPSF_P	STR., INLET PROT., SILT FENCE		ILC	LOAD CENTER	*	MPF	PT., FENCE LOCATION		ТСВР	BOX, PULL BOX	P	UTB	TELEPHONE, BOOTH
Y	APORC	POINT ON REVERSE CURVE		FRCB			IMECSPL	MECHANICAL SPLICE	0	MPIP	PT., IRON PIPE		TCBS	BOX, SPLICE	-\$	UTLM	TELEPHONE, LINE MARKER
0	APT	POINT OF TANGENCY		LINOD		PM ))	IMSCS	PORT. SPEED & COUNT SENSOR	$\odot$	MPIR	PT., IRON ROD		ТСМС	MICROCOMPUTER CABINET		UTMH	TELEPHONE, MANHOLE
	APVC	POINT OF VERTICAL CURVATURE		ETRS_P	TRAP, SEDIMENT		IMSCTS	MICRO SPEED & COUNT SENSOR		МРМ	PT., MONUMENT		TCPP	PED POLE	~¢~	UTVLM	CABLE TV, LINE MARKER
	APVCC	POINT OF VERT. CMPND CURVE	+	EWFG	WETLAND FLAG		IMT	MICROWAVE TRANSCEIVER	B	МРММ	PT., MONUMENT, MISC.		TCSH	SIGNAL HEADS		UTVPB	CABLE TV, PULL BOX
	APVI	POINT OF VERT. INTERSECTION		GE	OTECHNICAL	OVMS	IOVHVMS	PERM. OVERHEAD VMS	Ø	MPN	PT., NAIL	· · ·	TCSP	SIGNAL POLE		UUB	UNKNOWN, BOX
	APVRC	POINT OF VERT. REVERSE CURVE	$\mathbf{\Theta}$	GDH	DRILL HOLE		IPASCS	PORT. ACCOU. SPD & CNT. SENSOR	¥	MPRS	PT., RAILROAD SPIKE	1	TRAFI	FIC WORK ZONE	$\boxtimes$	UUJB	UNKNOWN, JUNCTION BOX
•	APVT	POINT OF VERTICAL TANGENCY		I			IPEDS	PEDESTRIAN SIGNAL HEAD	厳	MPSP	PT., SPIKE	<u></u>	TWZAP_P	ARROW PANEL	$\otimes$	UUMH	UNKNOWN, MANHOLE
	ASC	SPIRAL TO CURVE				$\diamond$	IPSS	PAVEMENT SURFACE SENSOR	¥	MPST	PT., STAKE		TWZAPC_P	ARROW PANEL, CAUTION MODE		UUPB	UNKNOWN, PULL BOX
	ASPI	SPIRAL POINT OF INTERSECTION	+	LELS	ELEVATION, SPOT	PVMS	IPVMS	PERM. VMS	⊗	MPTW	PT., TREE W/ WIRE		TWZAPT_P	ARROW PANEL, TRAILER OR SUPPORT		UUVL	UNKNOWN, VALVE
$\odot$	ASTS	SPIRAL TO SPIRAL	Ð	LFP	FLAG POLE	M	IRM	RAMP METER	+	MPWL	PT., WALL LOCATION	<b>ZZ</b>	TWZBCD_P	BARRICADE (TYPE III)	$\overline{\mathbf{x}}$	UUVT	UNKNOWN, VENT
$\otimes$	AST	SPIRAL TO TANGENT		LMB	MAILBOX		IRWIS	RDWY WEATHER INFO. SENSOR		RUM		н	TWZCMS_P	CHANGEABLE MESSAGE SIGN (PVMS)	0	UUW	UNKNOWN, WELL
$\otimes$	ATS	TANGENT TO SPIRAL		LPB	PAPER BOX	感	ISP	SOLAR PANEL		1			TWZFLG_P	FLAGGER	Q	UWFH	WATER, FIRE HYDRANT
	AVEVT	VERTICAL EVENT POINT	0	LPST	POST, SINGLE	:	ISST	SPREAD SPECT. TRANSCEIVER		MFS_P_T	FEE ACQUISITION	<b>↑</b>	TWZFT_P	FLAG TREE	W	UWM	WATER, METER
$\odot$	AVHIGH	VERTICAL HIGH POINT		LRB	ROCK, BOULDER		ITDB	TELEPHONE DEMARCATION BLK			FASEMENT PERMANENT		TWZIA_P	IMPACT ATTENUATOR / CRASH CUSHION (TEMPORARY)	W	UWMH	WATER, MANHOLE
$\odot$	AVLOW	VERTICAL LOW POINT	-ir 	LSHC	SHRUB, CONIFEROUS		ITP	SUBSURFACE TEMP. PROBE				•	TWZLUM_P	LUMINAIRE (TEMPORARY)	-Ð-	UWV	WATER, VALVE
	1	BRIDGE		LSHD	SHRUB, DECIDUOUS	)Ó(	IVTRT	VEHICLE TO RDWY TRANSCEIVER		METS_P_T	EASEMENT, TEMPORARY	⇒	TWZSDT_P	SYMBOL, DIRECTION OF TRAFFIC	<b>(()</b>	UWW	WATER, WELL
					TREE, CUNIFERUUS	W/M	IWIMD	WEIGHT IN MOTION DETECTOR		METS_P_T	OCCUPANCY, TEMPORARY		TWZSDTD_P	SYMBOL, DIRECTION OF TEMPORARY		_	4
	BSC	BRIDGE, SCUPPER	ريع		TREE, DECIDUOUS	) M	IWVR	WIRELESS VIDEO REPEATER				ŀ	TWZSGN_P	SIGN (TEMPORARY)			
		CONTROL	Q X	LIS	IREE, STUMP	0-(	IWVRC	WIRELESS VIDEO RECEIVER		MFS_P_T	FEE ACQUISITION W/O ACCESS	0	TWZSIG_P	SIGNAL, TRAFFIC OR PEDESTRIAN	1		
	CBP	BASELINE, POINT	φ		IREE, WELL OR WALL	٠ Ŵ:	IWVTT	WIRELESS VIDEO TRANSMITTER		•	ROADWAY	<u>a</u>	TWZWL_P	WARNING LIGHT			
$\odot$	CBPOL	BASELINE, POINT ON LINE	+	LUKP	UNKNOWN POINT		1	I					TWZWV_P	WORK VEHICLE	1		
	CBSP	BASELINE, SPUR POINT		1. THE LEG	END ILLUSTRATES MAPPING FEATUR	RES (EXIS	TING AND PF	ROPOSED).		RES_P	ELEVATION, SPOT		TWZWVA_P	WORK VEHICLE WITH TRUCK	1		
×	CBTP	BASELINE, TIE POINT		2. FEATURE	S ARE SHOWN AS EITHER LINEAR ( LINES, ETC.) OR POINT (SIGN UTU	ROADWAY	GUIDERAIL,	ROADWAY SIDEWALK,		RGA	GUIDE RAIL, ANCHOR				J		
	СРВМ	BENCHMARK		3. FEATURE	S SHOWN ON THE LEGEND AS FXIS	TING FF4	TURES ALSO	HAVE	0	RGP	GUIDE POST, SINGLE	J					
+	СРН	POINT, HORIZ. PHOTOGRAMMETRY		CORRESP	ONDING PROPOSED FEATURES.			-									
	CPSM	POINT, SURVEY MARKER, PERM.		4. PROPOSEI EXCLUDIN (0.015 in	D FEATURE SYMBOLOGY IS IDENTIC NG LINE WEIGHT. LINE WEIGHT FO N ON B SIZE DRAWINGS).	AL TO E	XISTING FEA SED FEATURE	TURE SYMBOLOGY S IS THICKER									
<b> </b> ↓	CPSV	POINT, VERT., PHOTOGRAMMETRY		5. MAPPING	FEATURES NOT INCLUDED ON THE	LEGEND	SHEET DO NO	OT HAVE A UNIQUE									
				SYMBOLO SHOULD	GY (SUCH AS THE PAVEMENT EDGE, BE LABELED ON THE PLANS.	, PAVEME	NT EDGE OF	TRAVEL WAY) AND									

6. FEATURES SHOWN AT THE HEAVIER WEIGHT ARE PROPOSED ONLY AND DO NOT HAVE CORRESPONDING EXISTING FEATURES.

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	ALIGNME	NT		ANDSC	APE		ROADWA	Y		UTIL	ITIES
STYLE	NAME	DESCRIPTION	STYLE	NAME	DESCRIPTION	STYLE	NAME	DESCRIPTION	STYLE	NAME	DESCRIPTION
	AC	CONTROL (CENTERLINE)	~~~~~~	LABL	AREA, BRUSH LINE	CZ	RCZ_P	CLEAR ZONE	C	UC	CONDUIT, UNDERGROUND
	AD_P	DETOUR		LAHR	AREA, HEDGE ROW	OO	RG	GUIDE RAIL, MISCELLANEOUS	]][]][	UCH	CONDUIT, HANGING
	AT_P	TRANSITION CONTROL	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	LAPB	AREA, PLANTING BED		RGB	GUIDE RAIL, BOX BEAM	OC	UCO	CONDUIT, OVERHEAD
	BRIDGE			LAWA	AREA, WOODED AREA OUTLINE		RGBM	GUIDE RAIL, BOX BEAM, MEDIAN	<i>E</i>	UE	ELECTRIC LINE, UNDERGROUND
	BR	RATI		LAWE	AREA, WATERS EDGE	O	RGC	GUIDE RAIL. CABLE	]E[	UEH	ELECTRIC LINE, HANGING
	BSHT	SHEET PILING		LCUT_P	CUT LIMIT		RGCB	GUIDE RAIL, CONCRETE BARRIER	OE	UEO	ELECTRIC LINE, OVERHEAD
				LFILL_P	FILL LIMIT	0 0	RGP_P	GUIDE POST	0E /	UEIO	ELECTRIC TRANSMISSION, OVERHEAD
D					FENCE		RGW	GUIDE RATL, W BEAM	<del>× × × × ×</del>	UESS	ELECTRIC, SUBSTATIONS
@	CBBB						RGWM	GUIDE RAIL, W BEAM, MEDIAN	<i>F0</i>	UFO	FIBER OPTIC, UNDERGROUND
							RPB		JF 0[	UFOH	FIBER OPTIC, HANGING
	DRAINAU						PPC		OF 0	UF00	FIBER OPTIC, OVERHEAD
	DCP	CULVERT PIPE						RAIL ROAD, CATENART	<i>G</i>	UG	GAS, UNDERGROUND
	DCP_P	CULVERT PIPE (DIR)			WALL CTONE		RNEN	RAIL ROAD, JRD RAIL	]0[	UGH	GAS, HANGING
	DDG_P	DITCH, GRASS LINED			WALL, STONE	╶╫╫╫╫╫╢╢	RRPLS_P	RAIL, PHOTO, LARGE SCALE	OG	UGO	GAS, OVERHEAD
			н <b>К</b>	UW MAP	PING		RRPSS	RATE PHOTO SMALL SCALE	<i>IC</i>	UIC	INFORM CABLE, UNDERGROUND
		DITCH, FAVED INVERT		MDL	DEED LINE		1111 33	MAIL, HIOTO, SMALL SCALL	] <i>IC</i> [	UICH	INFORM CABLE, HANGING
	DDS_P	DITCH, STONE LINED	PE	MEE	EASEMENT, EXISTING		RRS	RUMBLE STRIP	0	UO	OIL LINE, UNDERGROUND
	DELP		PE	MEP_P	EASEMENT, PERMANENT		RRSLS_P	RAIL, SURVEY, LARGE SCALE	]0[	UOH	OIL LINE, HANGING
	DSSD		APE	MEPA_P	EASEMENT, PERMANENT, APPROX.		RRSSS	RAIL, SURVEY, SMALL SCALE	← ── ── ──	UPBP	POLE, BRACE, PUSH BRACE
			TE	MET_P	EASEMENT, TEMPORARY		SIGNS	1	»— — — — — — — — — — — — — — — — — — —	UPGW	POLE, GUY WIRE
			ATE	META_P	EASEMENT. TEMPORARY, APPROX.	<b>♦</b> ♦	SBLB	BILLBOARDS	SA	USA	SANITARY SEWER, UNDERGROUND
	ENVIRUN		FEE	MF_P	FEE ACQUISITION, W/ ACCESS	• • •	SM	MULTIPLE POST	]SA[	USAH	SANITARY SEWER, HANGING
	EBLHS	BALE, STRAW	AFEE	MFA_P	FEE ACQUISITION, APPROXIMATE	$\bigcirc = = = = \bigcirc$	SS0	STRUCTURE, OVERHEAD	SAF	USAF	SANITARY SEWER, FORCE MAIN, UGND
	ECT	CURTAIN, TURBIDITY		MFS_P	FEE ACQUISITION, SHAPE	O	SSOC	STRUCTURE, OVHD. CANTILEVER	]SAF[	USAFH	SANITARY SEWER, FORCE MAIN, HANG
	EDMC	DAM, COFFER TYPE		MFW0A_P	FEE ACQUISITION, W/O ACCESS		STRIPIN	G	<i>T</i>	UT	TELEPHONE, UNDERGROUND
	EDMEC_P	DAM, EARTHEN, CHECK		MHA	HISTORICAL, ACQUISITION		STB*	BROKEN LINE		UTH	TELEPHONE, HANGING
			- — нв — -	MHB	HIGHWAY BOUNDARY		STDB*	DOUBLE BROKEN LINE	07	UTO	TELEPHONE, OVERHEAD
		DAM, THEIAD, CHECK	AHB	MHBA	HIGHWAY BOUNDARY, APPROX.		STDL*	DOTTED LINE LONG	CTV	ΙΙΤΥ	
	EDMSC_P	DAM, STONE, CHECK		MHBW	HWY BOUNDARY, FACE OF WALL		STDS*	DOTTED LINE SHORT		ШТУН	CABLE TV, HANGING
	EFNS	FENCE, SILT	HB W/OA	MHBWOA	HIGHWAY BOUNDARY, W/O ACCESS		STFB*	FULL BARRIER LINE			CABLE TV, NAROINO
	FENSV	FENCE, SILT & VEGETATION		MJC	JURISDICTION, CITY		STH*	HATCH LINE			
 ∼×∼	FENV	FENCE VEGETATION		MJCY	JURISDICTION, COUNTY		STPB+	PARTIAL BARRIER LINE	]	1111	
		WETLAND AD LACENT AREA		MJHD	JURISDICTION. HISTORIC DISTRICT		STRCT	ROUNDABOUT. CAT TRACKS		UUN	
	EWE	WETLAND, ADJACENT AREA		MILL	UIRIS, (GREAT, MILITARY) LOT LINE		STRYI		000	000	UNKNUWN, UVERHEAD
		WETLAND, FEDERAL		MIN			STOR	STOP BAD	W	UW	WATER LINE, UNDERGROUND
	EWFS	WEILAND, FEDERAL AND STATE		MIPR			STSD STSE		J <i>w</i> [	UWH	WATER LINE, HANGING
SW	EWM	WEILAND, MITIGATION AREA		MUS			3132*	50LID, EDGE	OW	UWO	WATER LINE, OVERHEAD
SW	EWS	WEILAND, STATE		MUS			STXL*	X WALK, LADDER LINE			
				MJI				<pre>* = W (WHITE) OR Y (YELLOW)</pre>			
				MJV	JURISDICTION, VILLAGE	TRAF	FIC CON	NTROL			
				MPL	PROPERTY LOT LINE		TCSW	SIGNAL, SPAN WIRE			
				MPLA	PROPERTY LOT LINE, APPROXIMATE	TRAFI	FIC WOR	K ZONE			
				MSL	SUB LOT LINE		TWZBT_P	BARRIER, TEMPORARY			
1. THE LEGENU ILLUSTRATES M	APPING FEAT	JRES (EXISTING AND PROPOSED).	W A1 17				TWZBTWL	P BARRIER, TEMPORARY, W/ WARNING			
2. FEATURES ARE SHOWN AS EI UTILITY LINES, ETC.) OR POI	INT (SIGN, UT	INUADWAT GUIDERAIL, RUADWAY SIDE ILITY POLE, ETC.).	WALK,				TWZCD_P	CHANNELIZING DEVICE	1		
3. FEATURES SHOWN ON THE LE CORRESPONDING PROPOSED F	EGEND AS EXI EATURES.	STING FEATURES ALSO HAVE					TWZPMRC	P PAVEMENT MARKING REMOVAL OR COVERING	]		
<ol> <li>PROPOSED FEATURE SYMBOLO LINE WEIGHT. LINE WEIGHT DRAWINGS).</li> </ol>	ogy is ident for proposi	CAL TO EXISTING FEATURE SYMBOLO D FEATURES IS THICKER (0.015 in (	GY EXCLUDING DN B SIZE								
5. MAPPING FEATURES NOT INCL SYMBOLOGY (SUCH AS THE PA BE LABELED ON THE PLANS.	LUDED ON THI Avement edg	E LEGEND SHEET DO NOT HAVE A UN E, PAVEMENT EDGE OF TRAVEL WAY)	IQUE AND SHOULD								

IT IS A VIOLATION OF LAW FOR ANY PERSON, UNLESS THEY ARE ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, ARCHITECT, LANDSCAPE ARCHITECT, OR LAND SURVEYOR, TO ALTER AN ITEM IN ANY WAY. IF AN ITEM BEARING THE STAMP OF A LICENSED PROFESSIONAL IS ALTERED. THE ALTERING ENGINEER, ARCHITECT, LANDSCAPE ARCHITECT, OR LAND SURVEYOR SHALL STAMP THE DOCUMENT AND INCLUDE THE NOTATION "ALTERED BY" FOLLOWED BY THEIR SIGNATURE, THE DATE OF SUCH ALTERATION, AND A SPECIFIC DESCRIPTION OF THE ALTERATION. .dgn\121-286.cph.leg\_82.dgn ung/CADD/ FILE NAME = NYP-olects/2821/121-286 Pagg1 - Rombout Fire Signal/Nori DATE/TIME = 11/29/2822 141/723 PM USER = dkarkotsky PLOT = NYSDOT.CME\_PDF.pltofg IT IS A VIOLATION OF LAW

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6. FEATURES SHOWN AT THE HEAVIER WEIGHT ARE PROPOSED ONLY AND DO NOT HAVE CORRESPONDING EXISTING FEATURES.

DATE BY									
REVISION									
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C.ciobroo				0	PREPARED FOR: ROMBOUT FIRE DISTRICT	901 MAIN STREET	FISHKII I NY 12524		DESIGNED: D.J.K. DRAWN BY: K.H.D. CHECKED: D.P.
OFF-SITE SIGNAL IMPROVEMENTS	NY ROUTE 52/ROMBOUT FIRE STATION #2	TOWN OF FISHKILL	DUTCHESS COUNTY NEW YORK			LINE LEGEND			DATE: NOVEMBER 2022 CM No.: 121-286 SCALE: AS NOTED
		E		C	)-	•(		2	

#### GENERAL NOTES:

- UNLESS OTHERWISE NOTED ALL ITEM NUMBERS FOR SPECIFIC WORK TASKS RELATE TO THE NEW YORK 1. STATE STANDARD SPECIFICATIONS
- THE CONTRACTOR SHALL EXAMINE AND VERIFY IN THE FIELD ALL EXISTING AND GIVEN CONDITIONS, ELEVATIONS AND DIMENSIONS SHOWN ON THE PLANS. IF FIELD CONDITIONS AND DIMENSIONS DIFFER FROM THOSE SHOWN ON THE PLANS, THE CONTRACTOR SHALL MAKE APPROPRIATE CHANGES TO THOSE SHOWN ON THE PLANS, AS APPROVED BY THE ENGINEER, ALL FIELD CONDITIONS AND DIMENSIONS SHALL BE NOTED ON THE ASUBULT DEMONDRY CON ADVINCE THE DEMONDRY OF A DEMOND 2. THE AS-BUILT DRAWINGS SUBMITTED FOR APPROVAL.
- THE CONTRACTOR'S ATTENTION IS DIRECTED TO THE FACT THAT, DUE TO THE NATURE OF RECONSTRUCTION PROJECTS, THE EXACT EXTENT OF CONSTRUCTION WORK CANNOT ALWAYS BE ACCURATELY DETERMINED PRIOR TO THE COMMENCEMENT OF WORK, THESE CONTRACT DOCUMENTS HAVE BEEN PREPARED BASED ON FIELD INSPECTION AND OTHER INFORMATION AVAILABLE AT THE TIME, ACTUAL FIELD CONDITIONS MAY REQUIRE MODIFICATIONS TO CONSTRUCTION DETAILS AND WORK QUANTITIES. THE 3. CONTRACTOR SHALL PERFORM WORK IN ACCORDANCE WITH FIELD CONDITIONS.
- NO ADDITIONAL PAYMENT SHALL BE MADE FOR WORK CALLED FOR BY NOTES ON THE PLAN, IN THE SPECIFICATIONS, OR UNDER THE HEADING "GENERAL NOTES" UNLESS PAYMENT IS SPECIFICALLY INDICATED BY ITEM NUMBER. THE COST OF WORK FOR WHICH NO PAYMENT IS INDICATED SHALL BE INCLUDED IN THE LUMP UNIT BID PRICE FOR THE VARIOUS ITEMS IN THE CONTRACT.
- THE CONTRACTOR IS ADVISED THAT ADDITIONAL NOTES WILL BE FOUND ON SUBSEQUENT SHEETS OF THE PLANS AND SUCH NOTES, WHILE PERTAINING TO THE SPECIFIC DRAWINGS THEY ARE PLACED ON, ALSO 5. SUPPLEMENT THE GENERAL NOTES LISTED HEREIN.
- IF THE ENGINEER NOTIFIES THE CONTRACTOR OF ANY HAZARDOUS CONSTRUCTION PRACTICES, ALL OPERATIONS IN THE AFFECTED AREA SHALL BE DISCONTINUED AND IMMEDIATE ACTION SHALL BE TAKEN TO CORRECT THE SITUATION TO THE SATISFACTION OF THE ENGINEER BEFORE WORK IS RESUMED.
- ALL EXISTING PAVEMENT AND SHOULDER SURFACES THAT ARE TO BE RESURFACED SHALL BE CLEANED IN 7. ACCORDANCE WITH SECTION 633 (CONDITIONING OF EXISTING PAVEMENT) OF THE NYSDOT STANDARD SPECIFICATIONS.
- ALL EXISTING TRAFFIC SIGNS REMOVED BY THE CONTRACTOR WITH A NYSDOT STICKER ON THE BACK OF THE PANEL SHALL BECOME THE PROPERTY OF THE NYSDOT. SIGNS WILL BE STORED AND LOCAL STATE RESIDENCY NOTIFIED FOR PICKUP. ALL OTHER EXISTING SIGNS SHALL BECOME THE PROPERTY OF THE 8. TOWN OF FISHKILL.
- 9. ALL WORK SHALL BE DONE IN STRICT COMPLIANCE WITH ALL APPLICABLE NATIONAL, STATE, AND LOCAL CODES, STANDARDS, ORDINANCES, RULES, AND REGULATIONS.
- 10. THE CONTRACTOR SHALL MAINTAIN THE INTEGRITY OF EXISTING EDGE OF PAVEMENT ALONG ALL RIGHTS-OF-WAY.
- 11. SUBMITTALS, CATALOG CUTS, SAMPLES, AND SHOP DRAWINGS MUST BE RECEIVED, REVIEWED AND APPROVED BY THE ENGINEER PRIOR TO ORDERING OR FABRICATION OF MATERIALS AND PRIOR TO INSTALLATION OF MATERIALS. FAILURE TO DO SO MAY RESULT IN TIME DELAYS. THE CONTRACTOR WILL NOT BE ENTITLED TO COMPENSATION FOR SAID TIME DELAYS, REMOVALS, OR REPLACEMENTS.

#### **ENVIRONMENTAL NOTES:**

- 1. ALL DISTURBED UNPAVED AREAS WITHIN THE DESIGNATED WORK LIMITS SHALL BE GRADED, FERTILIZED, SEEDED AND MULCHED AS SPECIFIED UNDER SECTION 610 (GROUND VEGETATION PREPARATION, ESTABLISHMENT AND MANAGEMENT) OF THE NYSDOT STANDARD SPECIFICATIONS.
- DURING CONSTRUCTION. NO WET OR FRESH CONCRETE OR LEACHATE SHALL BE ALLOWED TO ESCAPE INTO 2. THE WATERS OF NEW YORK STATE, NOR SHALL WASHINGE FROM REDI-MIX TRUCKS, MIXERS OR OTHER DEVICES BE ALLOWED TO ENTER ANY WETLAND OR WATERS. DESIGNATED WASH OUT AREAS TO BE APPROVED BY THE ENGINEER IN CHARGE.

#### UTILITY NOTES:

- 1. LOCATION OF UTILITIES, PUBLIC AND/OR PRIVATE, INDICATED ON THE PLANS AS EXISTING AND/OR TO BE LOCATION OF UTILITIES, FUDELE AND/OF TRIVATE, INDUCATED STALL BE DETERMINED IN THE FILE. ADDITIONAL UTILITY LINES, WHETHER ABANDONED OR IN SERVICE, MAY EXIST AND IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO CONDUCT HIS OR HER OPERATIONS, AND TAKE NECESSA PRECAUTIONS SUCH THAT INTERFERENCE WITH OR DAMAGE TO THESE OR OTHER FACILITIES DURING THE COURSE OF CONSTRUCTION IS PREVENTED.
- 2. PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL CALL "DIG SAFELY" (1-800-962-7962) TO HAVE UNDERGROUND UTILITIES LOCATED.
- 3. EXPLORATORY EXCAVATIONS SHALL BE PERFORMED AS NEEDED BY THE CONTRACTOR TO VERIFY EXISTING CONDITIONS PRIOR TO WORK IN CONGESTED UTILITY AREAS. ALL TEST PITS IDENTIFIED ON THESE DRAWINGS ARE TO BE COMPLETED AND TEST PIT LOGS SUBMITTED TO THE ENGINEER WITHIN FOURTEEN (14) DAYS FOLLOWING NOTICE TO PROCEED, UNLESS OTHERWISE DIRECTED BY THE ENGINEER.
- 4. THE QUALITY OF THE UNDERGROUND UTILITY INFORMATION ON THE PLANS IS QUALITY LEVEL "D". FOUR SEPARATE QUALITY LEVELS OF SUBSURFACE UTILITY FACILITY INFORMATION ARE GENERALLY RECOGNIZED AND ARE AS FOLLOWS:
- QUALITY LEVEL A (QLA); QUALITY LEVEL A IS THE HIGHEST DEGREE OF ACCURACY. THE INFORMATION SHOWN ON THE PLANS HAS BEEN OBTAINED BY THE ACTUAL EXPOSURE (OR VERIFICATION OF PREVIOUSLY EXPOSED AND SURVEYED UTILITY FACILITIES) OF SUBSURFACE UTILITIES, USING (TYPICALLY) MINIMALLY INTRUSIVE EXCAVATION EQUIPMENT TO DETERMINE THEIR PRECISE HORIZONTAL AND VERTICAL POSITIONS, AS WELL AS THEIR OTHER UTILITY FACILITY ATTRIBUTES. (SHOWN AS QLA)
- QUALITY LEVEL B (QLB): QUALITY LEVEL B IS THE SECOND HIGHEST DEGREE OF ACCURACY. THE INFORMATION SHOWN ON THE PLANS HAS BEEN OBTAINED THROUGH THE APPLICATION OF APPROPRIATE INFORMATION SHOWN ON THE PLANS HAS BEEN OBTAINED THROUGH THE APPLICATION OF APPROPRIATE SURFACE GEOPHYSICAL METHODS (I.E., UNDERGROUND CAMERAS, RADAR, SONAR, TONE OUTS, ETC.) TO IDENTIFY THE EXISTENCE AND APPROPRIATE HORIZONTAL POSITION OF SUBSURFACE UTILITY FACILITIES, QUALITY LEVEL B DATA ARE REPRODUCIBLE BY SURFACE GEOPHYSICS AT ANY POINT OF THEIR DEPICTION. THE INFORMATION WAS SURVEYED TO APPLICABLE TOLERANCES AND REDUCED ONTO THE PLANS. NO EXCAVATIONS WERE PERFORMED. (SHOWN AS QLB)
- QUALITY LEVEL C (QLC): QUALITY LEVEL C IS THE THIRD HIGHEST DEGREE OF ACCURACY. THE INFORMATION SHOWN ON THE PLANS HAS BEEN OBTAINED BY SURVEYING AND PLOTTING VISIBLE ABOVE-GROUND\_UTILITY\_FEATURES\_AND BY USING PROFESSIONAL JUDGMENT IN CORRELATING THIS INFORMATION TO QUALITY LEVEL D INFORMATION, (SHOWN AS QLC)
- QUALITY LEVEL D (QLD): QUALITY LEVEL D IS THE LOWEST DEGREE OF ACCURACY. THE INFORMATION SHOWN ON THE PLANS WAS DERIVED SOLELY FROM EXISTING NYSDOT AND/OR UTILITY COMPANY RECORDS OR RECOLLECTIONS. (SHOWN AS QLD)

#### SURVEY NOTES:

43 BROAD STREET, FISHKILL, NY 12524 (PH. 845-897-2375).

#### RIGHT OF WAY NOTES:

- OF ANY FENCES OR PROTECTIVE BARRIER.
- 2. (STANDARD SPECIFICATIONS SECTIONS 105-10 AND 625).
- 3. 105-15).
- SHALL BE SATISFACTORY REPARED OR ITEMS PLACED AT THE CONTRACTOR'S EXPENSE (STANDARD SPECIFICATIONS SECTION 107-08).

#### ACCESS AND NOTIFICATION NOTES:

- EMERGENCY VEHICLES AT ALL TIMES.
- 2. COMPLETION OF EXCAVATION AND BACKFILL OPERATIONS WITHIN THE PAVEMENT LIMITS.
- CLOSURES OR ANY WORK AFFECTING TRAFFIC SIGNALS.
- PEDESTRIAN ACCESS AT ALL TIMES.
- 5.

#### **PROJECT SPECIFIC NOTES:**

- OUTSIDE THE WORK HOUR RESTRICTIONS.
- PAGGI. PE. PC.

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E ARCHITECT, OR LAND SURVEYOF ARCHITECT, OR LAND SURVEYOR SCRIPTION OF THE ALTERATION.

1. BASE MAPPING AND RIGHT-OF-WAY INFORMATION PREPARED BY LAWRENCE J. PAGGI, PE, PC, LOCATED AT

1. ALL WORK TO BE PERFORMED UNDER THIS CONTRACT WILL BE WITHIN THE PUBLIC RIGHT-OF-WAY (ROW) II ACCORDANCE WITH SECTION 105-15 OF THE STANDARD SPECIFICATIONS. THE CONTRACTOR IS TO ASSURE HIMSELF THAT ALL WORK IS BEING PERFORMED WITHIN THE ROW, INCLUDING BUT NOT LIMITED TO VEHICLE ACCESS; STORAGE OF EQUIPMENT, MATERIALS, DEBRIS AND WASTE; LANDSCAPING; VEGETATION REMOVAL AND MANAGEMENT; GRADING, SEEDING AND THE INSTALLATION OF TURF; AND THE INSTALLATION

IF THE CONTRACTOR IS UNABLE TO IDENTIFY THE LIMITS OF THE RIGHTS-OF-WAY WHEN THE CONTRACT CALLS FOR WORK IN THOSE VICINITIES, THE CONTRACTOR MUST CONTACT THE PROJECT ENGINEER FOR DEFINITIVE BOUNDARY DETERMINATIONS BEFORE ANY WORK MAY BE INITIATED AT THOSE LOCATIONS

IN ACCORDANCE WITH SECTION 105-15 OF THE STANDARD SPECIFICATIONS, RELEASES FOR ANY NON-ESSENTIAL CONTRACT WORK OUTSIDE OF THE EXISTING RIGHTS-OF-WAY, INCLUDING PLANTINGS, LANDSCAPING OR DRIVEWAY ENHANCEMENT, WILL BE PROVIDED BY THE PROJECT ENGINEER AND IN NO INSTANCE ARE TO BE SECURED BY THE CONTRACTOR. THE CONTRACTOR SHALL NOT INVADE UPON PRIVATE PROPERTIES, LANDS OR BUILDINGS OUTSIDE OF THE RIGHTS-OF-WAY FOR ANY REASON WITHOUT FIRST SECURED WIDESCING FOR UTUE SECURED AT THE SECURED, SECURICATIONS SE FIRST SECURING WRITTEN PERMISSION FROM THE PROPERTY OWNER (STANDARD SPECIFICATIONS SECTION

4. THE CONTRACTOR WILL BE HELD LIABLE FOR ANY DAMAGES DONE. ANY SUCH INJURIES OR DAMAGES

THE CONTRACTOR SHALL PROVIDE SAFE AND ADEQUATE ACCESS INTO OR THROUGH THE WORK SITE BY

THE CONTRACTOR SHALL MAINTAIN ALL TRAFFIC IN ACCORDANCE WITH THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES AND THE NYS SUPPLEMENT, AND EFFORTS SHALL BE COORDINATED WITH THE ENGINEER, AND/OR THE NYSDOT. TEMPORARY PAVEMENT SHALL BE PLACED WITHIN 48 HOURS OF

3. THE CONTRACTOR SHALL NOTIFY THE STATE AND/OR TOWN 72 HOURS PRIOR TO ANY STREET OR LANE

4. THE CONTRACTOR SHALL MAINTAIN ACCESS TO ALL COMMERCIAL AND RESIDENTIAL PROPERTIES AT ALL TIMES TO THE SATISFACTION OF THE ENGINEER. RAMPING CONSTRUCTION TO PROVIDE ACCESS MAY BE CONSTRUCTED WITH SUBBASE MATERIAL EXCEPT THAT TEMPORARY ASPHALT CONCRETE SHALL BE PLACED AS DIRECTED BY THE ENGINEER. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING SAFE

THE CONTRACTOR SHALL NOTIFY ALL RESIDENTS AND BUSINESSES LOCATED IN THE WORK ZONE 72 HOURS PRIOR TO THE START OF CONSTRUCTION ACTIVITIES. SUCH NOTICES WILL BE FURNISHED BY THE CONTRACTOR AND APPROVED BY THE ENGINEER AND/OR THE NYSDOT.

THE CONTRACTOR SHALL NOT BEGIN WARMING UP HIS OR HER EQUIPMENT BEFORE 7:00 AM, NOR KEEP THE EQUIPMENT RUNNING AFTER 8:00 PM. MAINTENANCE OF EQUIPMENT ON SITE WHICH REQUIRES THE EQUIPMENT TO BE RUNNING SHALL BE APPROVED BY THE ENGINEER IF THE MAINTENANCE IS PERFORMED

2. THE CONTRACTOR SHALL SECURE A JOINT NYSDOT HIGHWAY WORK PERMIT WITH THE ROMBOUT FIRE DISTRICT AS CO-APPLICANT. THE CONTRACTOR SHALL SECURE THE BONDS AND PAY ALL NYSDOT PERMIT

THESE DRAWINGS ARE INTENDED TO INDICATE ONLY THE SIGNAL WORK THAT IS LOCATED WITHIN THE STATE RIGHT-OF-WAY. FOR ALL OTHER HIGHWAY WORK LOCATED WITHIN THE STATE RIGHT-OF-WAY, OR WORK LOCATED OUTSIDE THE STATE RIGHT-OF-WAY, REFER TO THE PLANS PREPARED BY LAWRENCE J.

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#### WORK ZONE TRAFFIC CONTROL NOTES:

#### 1. GENERAL NOTES

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Are acting under the Direction of a licensed professional engineer, architect, landscape stamp of a licensed professional is altered, the altering engineer, architect, landscape "Altered By" followed By Their Signature, the date of such alteration, and a specific des

- A. WORK ZONE TRAFFIC CONTROL SHALL BE PROVIDED IN ACCORDANCE WITH SECTION 619 WORK ZONE TRAFFIC CONTROL OF THE NYSDOT STANDARD SPECIFICATIONS, THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES, NYSDOT STANDARD SHEETS 619 SERIES, AND ANY PROVISIONS CONTAINED IN THESE
- B. THE TYPICAL DETAILS DEPICTED ON THE STANDARD SHEETS, THE TRAFFIC CONTROL PLANS, AND IN THE MUTCD REFLECT THE MINIMUM REQUIREMENTS. ADDITIONAL SIGNS AND/OR TRAFFIC CONTROL DEVICES MAY BE REQUIRED AS ORDERED BY THE ENGINEER (AOBE), COST TO BE INCLUDED IN THE PRICE BID FOR THE APPROPRIATE ITEMS. IF AT ANY TIME THE ENGINEER DETERMINES THAT TRAFFIC IS NOT BEING PROPERLY MAINTAINED WITHIN A WORK ZONE, THE CONTRACTOR SHALL IMMEDIATELY CONDECT THE INDICATED DEFICIENCY ADDE CORRECT THE INDICATED DEFICIENCY, AOBE.
- C. THE CONTRACTOR MUST SUBMIT TO THE ENGINEER, IN WRITING, PROPOSED REVISIONS TO THE TRAFFIC CONTROL PLAN FOR REVIEW AND APPROVAL BY THE NYSDOT/TOWN FIVE (5) WORKING DAYS PRIOR TO THE PLANNED IMPLEMENTATION OF SUCH PROPOSED REVISIONS, EXCEPT FOR CHANGES THAT ALTER THE BASIC CONCEPT OF THE TRAFFIC CONTROL PLAN. SUCH CONCEPTUAL CHANGES MUST BE SUBMITED TO THE ENGINEER FOR APPROVAL BY THE TOWN THIRTY (30) WORKING DAYS PRIOR TO IMPLEMENTATION OF CIVIL POLYMETANCE. SUCH REVISIONS.
- D. THE CONTRACTOR SHALL PROVIDE THE ENGINEER, IN WRITING, WITH THE NAMES, ADDRESSES, AND TELEPHONE NUMBERS OF STAFF WHO ARE AUTHORIZED TO SECURE LABOR, MATERIALS, AND EQUIPMENT FOR EMERGENCY REPAIRS OUTSIDE NORMAL WORKING HOURS. THE ENGINEER WILL PROVIDE THE SUBMITTED INFORMATION TO NYSDOT, REGIONAL MANAGEMENT, THE NEW YORK STATE POLICE, THE RESIDENT ENGINEER, THE TOWN, AND THE LOCAL POLICE.
- E. PRIOR TO THE START OF ANY WORK OPERATIONS, ALL RELATED WORK FOR PROPOSED WORK ZONE TRAFFIC CONTROL, AOBE, SHALL BE COMPLETE. THIS INCLUDES BUT IS NOT LIMITED TO, ALL SIGNS, SIGNALS, PAVEMENT MARKINGS, BARRIERS, DELINEATION (CONES, DRUMS, ETC.) FLAGGERS, PAVEMENT MODIFICATIONS, AND ANY OTHER RELATED WORK.
- F. THE CONTRACTOR SHALL PROVIDE AND MAINTAIN SAFE AND ADEQUATE INGRESS AND EGRESS TO AND FROM INTERSECTING HIGHWAYS, HOMES AND COMMERCIAL ESTABLISHMENTS AT ALL TIMES TO THE SATISFACTION OF THE ENGINEER. THIS WORK SHALL BE PERFORMED IN ACCORDANCE WITH ITEM 619.01 SECTION 619-3.02(C) OF NYSDOT STANDARD SPECIFICATIONS.
- G. THE TRANSPORTATION MANAGEMENT CENTER (TMC) SHALL BE NOTIFIED BEFORE ANY WORK IS STARTED ON A STATE HIGHWAY. THE NOTIFICATION AND COORDINATION WITH THE TMC SHALL BE MADE THRU THE NYSDOT REPRESENTATIVE ASSIGNED TO THE PROJECT (DOT INSPECTOR OR RESIDENCY).
- 2. STANDARD SHEETS 619-10, 11, AND 12 CRITERIA
- THE CONTRACTOR SHALL REFER TO THE FOLLOWING CRITERIA WHILE UTILIZING THE NYSDOT STANDARD SHEETS:
- A. PRECONSTRUCTION POSTED SPEED LIMIT: 45 MPH
- B. TYPE OF ROADWAY: CONVENTIONAL ROAD
- C. SETTING: URBAN
- 3. TIME / DATE RESTRICTIONS
- A. THERE SHALL BE NO TEMPORARY LANE CLOSURES ON THE FOLLOWING HOLIDAY DATES AND TIMES:

	2022	2023
6:00	AM DEC 30 (2021) TO 6:00 AM JAN 3 (2022)	6:00 AM DEC 30 (2022) TO 6:00 AM JAN 3 (2023)
	6:00 AM MAY 27 TO 6:00 AM MAY 31	6:00 AM MAY 26 TO 6:00 AM MAY 30
	6:00 AM JULY 1 TO 6:00 AM JULY 5	6:00 AM JULY 1 TO 6:00 AM JULY 5
	6:00 AM SEPT 2 TO 6:00 AM SEPT 6	6:00 AM SEPT 1 TO 6:00 AM SEPT 5
	6:00 AM NOV 24 TO 6:00 AM NOV 28	6:00 AM NOV 22 TO 6:00 AM NOV 27
	6:00 AM DEC 23 TO 6:00 AM DEC 27	6:00 AM DEC 22 TO 6:00 AM DEC 26

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- B. THERE SHALL BE NO TEMPORARY LANE CLOSURES ON RT 52 BETWEEN THE FOLLOWING HOURS: MONDAY THROUGH FRIDAY 7 AM TO 9 AM MONDAY THROUGH FRIDAY 4 PM TO 6 PM
- C. THE CONTRACTOR SHALL NOT BEGIN WARMING UP EQUIPMENT BEFORE THE SCHEDULED START TIMES, NOR KEEP THE EQUIPMENT RUNNING AFTER THE SCHEDULED QUIT TIMES. MAINTENANCE OF EQUIPMENT ON SITE WHICH REQUIRES THE EQUIPMENT TO BE RUNNING SHALL BE APPROVED BY THE ENGINEER IF THE MAINTENANCE IS PERFORMED OUTSIDE THE WORK HOUR RESTRICTIONS.
- D. THERE SHALL BE NO WORK OPERATIONS ALLOWED BEFORE SUNRISE OR AFTER SUNSET WITHOUT APPROVAL OF THE NYSDOT/ENGINEER AND AN APPROVED LIGHTING PLAN. THE LIGHTING PLAN SHALL BE APPROVED PRIOR TO THE START OF WORK BY THE NYSDOT.

#### 4. WORK ZONE REQUIREMENTS

- A. THE MINIMUM WIDTH OF TRAVEL LANES WITHIN THE WORK ZONE IS 10 FEET.
- B. WORK ZONES ON OPPOSITE SIDES OF THE ROAD SHALL NOT OVERLAP. A WORK ZONE IS DEFINED AS THAT AREA IN WHICH TRAFFIC IS RESTRICTED BECAUSE OF CONSTRUCTION ACTIVITIES, OR THAT AREA WHICH INVOLVES A DROP-OFF WITHIN 10 FEET OF THE EDGE OF PAVEMENT.
- 5. CONSTRUCTION VEHICLES, EQUIPMENT, AND MATERIALS
- A. THE CLEAR ROADSIDE AREA IS DEFINED AS THE AREA WITHIN 10 FEET OF THE EDGE OF THE TRAVEL
- B. CONTRACTOR VEHICLES NOT IN USE AND PRIVATE VEHICLES OWNED BY CONTRACTOR'S EMPLOYEES SHALL NOT BE PARKED IN THE CLEAR ROADSIDE AREA, OR ANY OTHER LOCATION CONSIDERED BY THE ENGINEER TO BE A HAZARD. THIS REQUIREMENT IS NOT LIMITED TO THE CONTRACT LIMITS.
- C. NO MATERIAL IS TO BE STORED WITHIN THE CLEAR ROADSIDE AREA WITHOUT THE APPROVAL OF THE ENGINEER.
- D. VEHICLES BELONGING TO THE CONTRACTOR OR THE CONTRACTOR'S EMPLOYEES SHALL NOT BE PARKED IN A MANNER WHICH OBSTRUCTS SIGNS, BARRIERS, BARRICADES, OR OTHER TRAFFIC CONTROL DEVICES.
- E. VEHICLES BELONGING TO THE CONTRACTOR OR THE CONTRACTOR'S EMPLOYEES SHALL NOT BE PARKED IN A MANNER WHICH INTERFERES WITH ACCESS TO ABUTTING PROPERTIES.
- F. THE CONTRACTOR SHALL PLAN AND INCORPORATE ACCESS POINTS INTO THE WORK ZONE SUCH THAT, TO THE EXTENT PRACTICAL, THE CONTRACTOR'S VEHICLES ENTERING AND LEAVING THE WORK ZONE SHALL NOT IMPEDE THE MOVEMENT OF THROUGH TRAFFIC IN THE ADJACENT OPEN LANES.

#### 6. CHANNELIZING DEVICES

- A. WHERE POSSIBLE ALL CHANNELIZING AND GUIDING DEVICES ARE TO BE PLACED SO AS TO PROVIDE A MINIMUM 1 FOOT LATERAL CLEARANCE TO THE TRAVELED WAY.
- B. THE CONTRACTOR SHALL NOT MIX CHANNELIZATION DEVICES IN A LINEAR CLOSURE OR TAPER I.E. CONES, VERTICAL PANELS AND DRUMS SHALL NOT BE USED IN THE SAME TAPER OR CLOSURE. HOWEVER, DIFFERENT CHANNELIZATION DEVICES MAY BE USED IN DIFFERENT AREAS OF A PROJECT.
- C. REFLECTORIZED PLASTIC DRUM DELINEATORS SHALL BE USED AT HAZARDOUS LOCATIONS DETERMINED BY THE ENGINEER, DELINEATORS SHALL REMAIN IN PLACE UNTIL SATISFACTORY PROTECTION IS PROVIDED, DELINEATORS SHALL BE SPACED AT A DISTANCE NOT TO EXCEED 25 FEET, OR AS DIRECTED THE ENGINEER.
- 7. FLAGGING AND TRAFFIC CONTROL
- A. THE USE OF TEMPORARY SIGNALS AS A SUBSTITUTE FOR FLAGGERS WILL NOT BE ALLOWED ON THIS PROJECT
- B. FLAGGER SIGNS SHALL NOT BE USED FOR BRIEF PERIODS OF INCIDENTAL FLAGGING, AOBE. FLAGGER SIGNS SHALL NOT BE VISIBLE WHEN FLAGGERS ARE NOT BEING USED.
- C. WHEN A SIDE ROAD OR DRIVEWAY INTERSECTS THE ROADWAY WITHIN A WORK ZONE TRAFFIC CONTROL AREA, ADDITIONAL TEMPORARY TRAFFIC CONTROL DEVICES AND/OR FLAGGERS SHALL BE PLACED AS NEEDED. ADDITIONAL FLAGGERS SHALL BE LOCATED AS NEEDED AT ALL INTERSECTIONS AND COMMERCIAL DRIVEWAYS LOCATED WITHIN OR NEAR THE ACTIVE WORK SPACE.
- 8. SIGNS AND DEVICES
- A. DIAMOND-SHAPED ADVANCE WARNING SIGNS SHALL BE USED FOR ALL ADVANCE WARNING SIGNS SHOWN IN PART 6 OF THE MUTCD. COLOR REQUIREMENTS SHALL BE BLACK TEXT ON ORANGE BACKGROUND.
- B. THE CORRECT SPACING OF SIGNS, EITHER PERMANENT OR TEMPORARY MUST BE MAINTAINED AT ALL TIMES IN ACCORDANCE WITH THE MUTCD UNLESS SHOWN OTHERWISE ON THE PLANS. ALL SIGNS INCLUDING GUIDE SIGNS SHALL INDICATE ACTUAL CONDITIONS AT ALL TIMES AND SHALL BE COVERED, MOVED, REMOVED, OR CHANGED IMMEDIATELY AS ORDERED BY THE ENGINEER.
- C. THE LOCATION OF THE SIGNS SHOWN ON THE WORK ZONE TRAFFIC CONTROL PLANS AND DETAILS MAY BE ADJUSTED BASED ON SIGHT DISTANCE AND OTHER CONSIDERATIONS. THE FINAL LOCATIONS OF SIGNS ARE SUBJECT TO APPROVAL OF THE ENGINEER.
- D. ANY EXISTING SIGNS, INCLUDING OVERHEAD SIGNS, WHICH CONFLICT WITH THE TEMPORARY TRAFFIC CONTROL SIGNS LAYOUT SHALL BE COVERED, REMOVED, STORED OR RESET, AS APPROVED BY THE ENGINEER. ALL APPROPRIATE EXISTING SIGNS SHALL BE RESTORED TO THEIR ORIGINAL CONDITION AND/OR LOCATION UNLESS OTHERWISE REPLACED IN THIS CONTRACT.
- E. SIGNS AT OR NEAR INTERSECTIONS SHALL BE PLACED SO THAT THEY DO NOT OBSTRUCT A MOTORIST'S LINE OF SIGHT.
- F. ALL WARNING AND REGULATORY SIGNS SHALL BE POSTED ON BOTH SIDES OF ONE-WAY STREETS. IN CASES WHERE LANE RESTRICTIONS REDUCE THE TRAVEL LANE TO ONE LANE, SIGNS SHALL BE POSTED ON THE RIGHT SIDE OF THE ACTIVE TRAVEL LANE, UNLESS OTHERWISE AUTHORIZED BY THE ENGINEER.
- G. EXPRESSWAY SIZE SIGNING SHALL BE USED ON ALL MULTI-LANE HIGHWAYS. CONVENTIONAL HIGHWAY SIZE SIGNING SHALL BE USED AT ALL OTHER LOCATIONS.

#### 9. NOTIFICATION AND EMERGENCY ACCESS

- B. THE CONTRACTOR IS REQUIRED TO CONTACT THE APPROPRIATE TRANSIT OFFICIALS IN RESPECT TO THE PASSENGERS AT EXISTING OR TEMPORARILY RELOCATED BUS STOPS.

#### **10. BICYCLISTS AND PEDESTRIANS**

- AND HAVE A LOGICAL START AND TERMINUS.
- MAINTAINED FOR THE DURATION OF CONSTRUCTION.
- THE SPECIAL NOTES.

- G. THE CONTRACTOR SHALL PROVIDE A USABLE TRAVEL PATH AT ALL BUS STOP LOCATIONS TO PROVIDE SAFE ACCESS TO AND FROM THE BUS.

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A. THE CONTRACTOR IS REQUIRED TO CONTACT THE APPROPRIATE SCHOOL AND EMERGENCY SERVICES ORGANIZATIONS WITH RESPECT TO THE EFFECT OF ROAD WORK, TRAVEL LANE REDUCTIONS, AND DETOURS ON OPERATIONS. THIS CONTACT SHALL BE MADE AS CONDITIONS CHANGE AND AT LEAST TWO WEEKS PRIOR TO IMPLEMENTING EACH TRAFFIC PHASE AND/YOR DETOUR TO ALLOW ADEQUATE TIME FOR THE ORGANIZATIONS TO COORDINATE AND MAKE NECESSARY ADJUSTMENTS TO RESPONSE SCHEDULES

THE CONTRACTOR IS REQUIRED TO CONTACT THE APPROPRIATE TRANSIT OFTICIALS IN RESPECT TO THE EFFECT OF ROAD ALTERATIONS ON BUS OPERATIONS. THIS SHOULD BE DONE FOUR WEEKS IN ADVANCE OF ANY CHANGES IN TRAFFIC PATTERNS OR IMPLEMENTATION OF WORK ZONES SO THAT THERE WILL BE ADEQUATE TIME FOR TRANSIT OFFICIALS TO NOTIFY PERSONNEL OF THE EFFECTS TO SCHEDULES AND ROUTES. THE CONTRACTOR SHALL MAKE PROVISIONS FOR THE SAFE INGRESS AND EGRESS OF DESCENDED TO THE PROVIDENT OF THE SAFE INGRESS AND EGRESS OF

A. THE CONTRACTOR SHALL MAINTAIN PEDESTRIAN AND BICYCLE TRAFFIC THROUGH OR AROUND EACH WORK AREA FOR THE DURATION OF THE CONSTRUCTION. MATERIAL, EQUIPMENT OR OTHER SUCH BARRIERS SHALL NOT BE PLACED OR PARKED IN SUCH A MANNER AS TO OBSTRUCT PEDESTRIAN OR BICYCLE TRAFFIC OR TO PRESENT A SAFETY HAZARD TO THE NON-MOTORIZED PUBLIC. WHERE PEDESTRIAN TRAFFIC MIST BE RELOCATED OFF THE EXISTING FACILITY, WALKWAYS SHALL BE CLEARLY MARKED

B. THE CONTRACTOR SHALL PROVIDE, DELINEATE AND MAINTAIN A USABLE TRAVEL PATH FOR PEDESTRIANS EITHER THROUGH OR AROUND WORK ZONES FOR THE DURATION OF THIS PROJECT. THE TRAVEL PATH SHALL COMPLY WITH THE CONTINUOUS PASSAGE PROVISIONS OF THE CURRENT AMERICANS WITH DISABILITIES ACT ACCESSIBILITY GUIDELINES (ADAGAG, THE CONTRACTOR MAY UTLIZE ANY COMBINATION OF THE FOLLOWING TO PROVIDE THE USABLE TRAVEL PATH; EXISTING SIDEWALKS/SHOULDERS; TEMPORARY SIDEWALKS/SHOULDERS; FINAL SIDEWALKS/SHOULDERS; AND EXISTING OR TEMPORARY SIDEWALK CYRB RAMPS. THE USABLE TRAVEL PATH; EXISTING CONSIDEWALKS/SHOULDERS; TEMPORARY SIDEWALKS/SHOULDERS; FINAL SIDEWALKS/SHOULDERS; AND EXISTING OR TEMPORARY SIDEWALK CYRB RAMPS. THE USABLE TRAVEL PATH; EXISTING CONSIDEWALKS/SHOULDERS; TEMPORARY SIDEWALKS/SHOULDERS; FINAL SIDEWALKS/SHOULDERS; AND EXISTING OR TEMPORARY SIDEWALK CYRB RAMPS. THE USABLE TRAVEL PATH; EXISTING CONSING AND ACCESSIDE THE USABLE TRAVEL PATH; EXISTING DE CLEARLY MARKED AND STAGED BETWEEN INTERSECTING ROADS TO ENSURE SAFE PEDESTRIAN CROSSING AND ACCESSIBILITY, PEDESTRIAN ACCESS TO RESIDENTIAL AND COMMERCIAL PROPERTIES SHALL BE MAINTAINED FOR THE DURATION OF CONSTRUCTION.

C. ALL LABOR, MATERIALS AND EQUIPMENT NECESSARY TO INSTALL AND REMOVE TEMPORARY SIDEWALK AND CURB RAMPS, INCLUDING THE RESTORATION OF DISTURBED AREAS, SHALL BE INCLUDED IN THE PRICE BID FOR ITEM 608.020102, ASPHALT CONCRETE SIDEWALKS, DRIVEWAYS AND BICYCLE PATHS.

D. FOR LOCATIONS WHERE EXISTING SIDEWALK WAS REMOVED OR NEW SIDEWALKS ARE PROPOSED, THE . FOR LOCATIONS WHERE EXISTING SIDEWALK WAS REMOVED OR NEW SIDEWALKS ARE PROPOSED, THE CONTRACTOR SHALL PROVIDE A SURFACE MEETING ADAAG REQUIREMENTS WITHIN TWO WEEKS (14 CALENDAR DAYS) OF EXISTING SIDEWALK REMOVAL OR CURB INSTALLATION, WHICHEVER IS LESS, THE CONTRACTOR MAY ALLOW PEDESTRIAN TRAFFIC TO USE THE COMPACTED SURFACE FOR A MAXIMUM OF TWO WEEKS (14 CALENDAR DAYS), AFTER THE TWO WEEK PERIOD THE CONTRACTOR MUST PROVIDE A PAVED SURFACE (FINAL OR TEMPORARY) MEETING THE ADAAG REQUIREMENTS. IF THE CONTRACTOR CHOOSES NOT TO PLACE THE FINAL SIDEWALK SURFACE, NO SEPARATE PAYMENT WILL BE MADE FOR THE TEMPORARY SURFACE. THE CONTRACTOR CHOOSES TO PROVIDE CLAB RAMPS IN ACCORDANCE WITH ADAAG REQUIREMENTS. IF THE CONTRACTOR CHOOSES TO PROVIDE THE FINAL SIDEWALK SURFACE AFTER THE TWO WEEK PERIOD, A TEMPORARY CURB RAMP MAY BE INSTALLED. THE COST OF THIS TEMPORARY RAMP IS TO BE INCLUDED IN THE PRICE BID FOR BASIC WORK ZONE TRAFFIC CONTROL, FAILURE TO PROVIDE THIS PAVED SURFACE WILL RESULT IN THE ASSESSMENT OF LIQUIDATED DAMAGES AS DEFINED IN THE SPECIAL NOTES.

E. ANY CONSTRUCTION ACTIVITY THAT RESULTS IN THE BREAKAGE OF SLABS OR THE REMOVAL OF SEGMENTS OF EXISTING SIDEWALK SERVING AS THE USABLE TRAVEL PATH SHALL BE REPAIRED IMMEDIATELY USING ASPHALT CONCRETE MEETING THE REQUIREMENTS OF SECTION 608 OF THE STANDARD SPECIFICATIONS. THE REPAIRED SURFACE SHALL BE IN CONFORMANCE WITH THE CRITERIA OUTLINED ABOVE, AS WELL AS THOSE CONTINUED IN THE ADAAG. SIDEWALK REPAIRS DUE TO REQUIRED CONFORMANCE FULLY THE CONFORMANCE WITH THE CRITERIA CONSTRUCTION ACTIVITIES SHALL BE PAID FOR UNDER 608.020102, ASPHALT CONCRETE SIDEWALKS, DRIVEWAYS AND BICYCLE PATHS. SIDEWALK THAT IS DAMAGED BY CARELESS CONSTRUCTION ACTIVITIES PRACTICES SHALL BE IMMEDIATELY REPAIRED, AOBE, AT NO COST TO THE TOWN OR STATE.

F. TEMPORARY SAFETY FENCING SHALL BE PLACED ALONG ANY SIDEWALK ADJACENT TO ANY EXCAVATION OR VERTICAL DROP-OFF OVER 6 INCHES. SAFETY FENCING SHALL BE CONTINUOUS PLASTIC FLUORESCENT ORANGE SUPPORTED BY METAL OR WOOD POSTS. THE FENCING SHALL BE A MINIMUM OF 4 FEET IN HEIGHT AND MAY INCLUDE A TOP AND BOTTOM RAIL TO PROVIDE ADDITIONAL SUPPORT, AOBE. THE SAFETY FENCE SHALL CONFORM TO SECTION 107-05 OF THE STANDARD SPECIFICATIONS. ALL LABOR, MATERIALS AND EQUIPMENT NECESSARY TO INSTALL AND REMOVE TEMPORARY SAFETY FENCING SHALL BE INCLUDED IN THE FORCE BUT COMPACY ON THE TRAFETY CONTROL THE STANDARD SPECIFICATIONS. SHALL BE INCLUDED IN THE PRICE BID FOR BASIC WORK ZONE TRAFFIC CONTROL. ITEM 619.01.

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#### TRAFFIC SIGNAL NOTES:

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- ALL TRAFFIC SIGNAL EQUIPMENT SHALL BE INSTALLED IN ACCORDANCE WITH NEW YORK STATE STANDARD SHEETS 680-01 THRU 680-17 INCLUSIVE, AS APPLICABLE, EXCEPT AS MODIFIED BELOW OR IN THE CONTRACT
- WHERE NATIONAL ELECTRICAL MANUFACTURERS ASSOCIATION (NEMA) SPECIFICATION EQUIPMENT IS TO BE INSTALLED, SUCH EQUIPMENT SHALL MEET ALL REQUIREMENTS OF N.E.M.A. SPECIFICATION TS2-2003 AS 2. AMENDED.
- UNLESS OTHERWISE NOTED, NYSDOT SHALL HAVE MAINTENANCE JURISDICTION OVER ALL SIGNALS IN THIS 3. CONTRACT UPON COMPLETION OF THEIR INSTALLATION AND OFFICIAL ACCEPTANCE.
- ALL MATERIALS CATALOG CUT SHEETS MUST BE SUBMITTED TO THE E.I.C. FOR REVIEW AND ACCEPTANCE PRIOR TO INSTALLATION.
- THE CONTRACTOR SHALL HAVE ALL CONVENTIONAL, N.E.M.A. OR INTERSECTION FLASHER EQUIPMENT (TO BE INSTALLED), INSPECTED BY NYSDOT SIGNAL MAINTENANCE FORCES BEFORE THE SIGNAL IS ENERGIZED. THE CONTRACTOR SHALL MAINTAIN EACH SIGNAL IN CONTINUOUS OPERATION AS SPECIFIED BY THE TABLE OF OPERATIONS FOR 30 DAYS BEFORE SEEKING FINAL ACCEPTANCE.
- UPON COMPLETION OF WORK AT AN INTERSECTION, NYSDOT TRAFFIC SIGNAL MAINTENANCE PERSONNEL WILL 6. PERFORM AN INSPECTION OF THE SIGNAL SYSTEM. AT THE THE OF THE INSPECTION, THE CONTRACTOR SHALL UNBAG THE NEW SIGNAL HEADS AND SHALL PROVIDE ACCESS TO ALL PULLBOXES FOR INSPECTION PURPOSES. THE CONTRACTOR SHALL BE NOTIFIED OF ANY DEFECTS FOUND DURING THE INSPECTION, AND WILL MAKE THE NECESSARY CORRECTIONS BEFORE THE INTERSECTION WILL BE ACCEPTED. THE CONTRACTOR SHALL PROVIDE SUFFICIENT PERSONNEL AND TRAFFIC CONTROL DEVICES TO SAFELY MAINTAIN TRAFFIC THROUGH THE INTERSECTION WHILE THE INSPECTION IS BEING PERFORMED. THE SIGNAL HEADS SHALL BE REBAGGED SHOULD THE INSPECTION FAIL.
- WORK ZONE TRAFFIC CONTROL SHALL BE PROVIDED IN ACCORDANCE WITH SECTION 619 WORK ZONE TRAFFIC CONTROL OF THE MYSDOT STANDARD SPECIFICATIONS, THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD) AND ANY PROVISIONS CONTAINED IN THE PLANS. THE CONTRACTOR SHALL INSTALL SIGNS ON ALL LEGS OF AN INTERSECTION PRIOR TO WORKING AT THAT INTERSECTION. 27. ON ALL SIGNAL HEAD ASSEMBLIES ALL FEMALE THREADED CONNECTING HARDWARE SHALL HAVE TWO SET SCREWS AND ALL THREADED PIPE NIPPLES SHALL HAVE TAPERED THREADS. 28. THE BOTTOMS OF ALL TRAFFIC SIGNAL HEADS SHALL BE LOCATED AT LEAST 17.0' (5.2 m) ABOVE THE
- THE CONTRACTOR'S RESPONSIBILITY TO MAINTAIN A TRAFFIC SIGNAL SHALL INCLUDE MAINTAINING VEHICLE 8. DETECTORS ON A VEHICLE ACTUATED INSTALLATION. IF A VEHICLE DETECTOR BECOMES INOPERATIVE, THE CONTRACTOR SHALL REPAIR IT, REPLACE IT, OR, IF A NEW COMPATIBLE DETECTOR IS CALLED FOR IN THE PLANS, THE CONTRACTOR, WITH THE PERMISSION OF THE E.I.C., MAY CONNECT THE NEW DETECTOR INTO THE EXISTING SYSTEM.
- ALL INTERSECTION IMPROVEMENTS SHOWN ON THE PLANS, INCLUDING LANE DESIGNATION SIGNS, TURNING LANES, CHANNELIZATION, PAVEMENT MARKINGS, ETC., SHALL BE IN PLACE BEFORE THE NEW SIGNAL SYSTEM IS PLACED INTO OPERATION. THE CONTRACTOR SHALL WORK WITH THE E.I.C. AND THE REGIONAL TRAFFIC ENGINEER TO COORDINATE THESE OPERATIONS.
- 10. THE CONTRACTOR SHALL CONTACT THE UTILITY COMPANY THAT WILL BE SUPPLYING POWER TO THE TRAFFIC SIGNAL EQUIPMENT AT EACH INTERSECTION WITHIN 30 DAYS OF THE CONTRACT AWARD. THE CONTRACTOR SHALL MEET ALL REQUIREMENTS OF THE NEW YORK BOARD OF FIRE UNDERWRITERS IN THEIR SIGNAL INSTALLATIONS AND EACH INSTALLATION MUST PASS A FIRE UNDERWRITERS INSPECTION BEFORE SERVICE CONNECTION WILL BE MADE BY THE UTILITY COMPANY. THE COST OF THE INSPECTION SHALL BE INCLUDED IN THE PRICE BID FOR THE VARIOUS TRAFFIC SIGNAL ITEMS.
- 11. IF IT IS DISCOVERED THAT THE MINIMUM CLEARANCES FROM PRIMARY AND/OR SECONDARY POWER CONDUCTORS AS REQUIRED BY SECTION 23 OF THE NATIONAL ELECTRICAL SAFETY CODE (ANSI STANDARD C2-1997) AND LOCAL UTLITY CODES CANNOT BE ACHIEVED. THE UTLITY COMPANY OWNING SUCH CONDUCTORS SHALL BE NOTIFIED IN WRITING OF THE PROBLEM. NO FURTHER WORK SHALL BE DONE UNTIL SAID POWER LINES HAVE 33. BEEN RELOCATED OR MODIFIED TO PROVIDE THE PROPER CLEARANCES.
- 12. UNDER NO CONDITION SHALL THE CONTRACTOR MAKE THE SERVICE CONNECTION; ALL SERVICE CONNECTIONS SHALL BE MADE BY THE APPROPRIATE UTILITY COMPANY.
- POWER SHALL BE SUPPLIED TO THE SIGNALS VIA A 1 NPS STEEL CONDUIT TO BE PAID UNDER ITEM 680.520103 CONDUIT, METAL STEEL, ZINC COATED, 1 NPS. THE UNIT PRICE BID SHALL INCLUDE THE COST OF INSTALLING THE CONDUIT AND WEATHER HEAD AS WELL AS THE COST OF ATTACHING THE METER SOCKET 13. (TO BE FURNISHED UNDER ITEM 680.90920008) TO THE SIGNAL POLE.
- 14. THE LOCATIONS OF ALL UNDERGROUND OBJECTS HAVE NOT BEEN SHOWN ON THE PLANS. THE CONTRACTOR SHALL DETERMINE THE EXISTING CONDITIONS AND SUPPORT AND PROTECT ALL LINES ENCOUNTERED IN THE TRENCHING AND EXCAVATION OPERATIONS.
- 15. WHERE UNFORESEEN UNDERGROUND UTILITIES MAKE IT NECESSARY TO RELOCATE SIGNAL POLES 5 FEET OR MORE FROM THEIR ORIGINAL LOCATIONS AS SHOWN ON THE CONTRACT PLANS, THE CONTRACTOR SHALL NOTIFY THE E.I.C. AND SEEK ALTERNATE LOCATIONS FROM THE DESIGNER. SPAN WIRE POLE CAPACITIES WILL ALSO REQUIRE VERIFICATION FROM THE DESIGNER.
- WHERE SOUND BEDROCK IS ENCOUNTERED DURING POLE EXCAVATION OPERATIONS, AND THE DEPTH OF 16. OVER THE ROCK IS ONE THIRD OR LESS THAN THE "MINIMUM EMBEDMENT" LENGTH GIVEN IN THE TABLE ON STANDARD SHEET 680-01, THEN THE FOOTING LENGTH MAY BE DECREASED SO AS TO PROVIDE AN EMBEDMENT INTO THE ROCK EQUAL TO THE FOOTING DIAMETER PLUS 2' GOODMM. FOR DEEPER OVERBURDENS, THE FOOTING LENGTH MAY BE DECREASED TO PROVIDE AN EMBEDMENT INTO THE ROCK EQUAL TO THE FOOTING DIAMETER, IF THE RESULTING DEPTH IS LESS THAN THE LENGTH OF THE ANCHOR BOLTS, THE CONTRACTOR SHALL DRILL INTO THE ROCK TO THE LENGTH OF THE ANCHOR BOLTS PLUS 6" (150 mm) (AS WEASURED FROM THE GROUND SURFACE) AND SHALL ANCHOR THE BOLTS INTO THE ROCK WITH AN APPROVED ADHESIVE ANCHORING SYSTEM.
- FOR NEW SIGNAL POLE INSTALLATIONS, THE CONCRETE POLE FOUNDATION SHALL CURE FOR A MINIMUM OF 7 DAYS BEFORE THE SIGNAL POLE IS ERECTED, AND FOR A MINIMUM OF 14 DAYS BEFORE THE MAST ARM AND 17. SIGNAL HEADS ARE INSTALLED.
- 18. ALL ANCHOR BASES FOR TRAFFIC SIGNAL SPAN WIRE POLES SHALL BE EQUIPPED WITH ANCHOR BOLT COVERS.
- 19. ALL TRAFFIC SIGNAL POLES SHALL BE INSTALLED SO THAT THE POLES SHALL HAVE A MINIMUM RAKE OF 1/4 OF THE DIAMETER OF THE SIGNAL POLE MEASURED AT ITS BASE AFTER LOADING.
- 20. THE MAST ARM POLE FOOTING SHALL BE DETERMINED BY THE BASE PLATE BOLT CIRCLE OF THE POLES, AND THE FOOTING MOMENT PER STANDARD SHEET 680-01. THE FOOTINGS SHALL BE CONSTRUCTED AS PER STANDARD SHEET 680-01.

- 21. ALL NEW AND EXISTING SIGNAL SYSTEMS THAT ARE TO BE UPDATED WITH NEW SIGNAL CONTROLLERS SHALL BE EQUIPPED WITH A RAINTIGHT DISCONNECT BOX (ITEM 680.94000015) AND AN ELECTRICAL DISCONNECT GENERATOR TRANSFER SWITCH (ITEM 680.94998008) WHICH SHALL BE INSTALLED BETWEEN THE METER SOCKET AND THE CONTROLLER. THE SERVICE CABLE SHALL BE RUN FROM THE CHASE NIPPLE IN THE BACK OF THE DISCONNECT BOX INTO THE SIGNAL POLE AND THEN THROUGH THE LARGE L.B. CONDULET INTO THE CONTROLLER CABINET.
- 22. WHERE A FIRE HOUSE SIGNAL IS TO BE INSTALLED, THE WIRE FROM THE FIRE HOUSE TO THE CONTROLLER SHALL BE SUPPLIED BY THE RESPECTIVE FIRE COMPANY. THE CONTRACTOR SHALL ADVISE THE APPROPRIATE OFFICIALS OF THE FIRE COMPANY OF THE TYPE AND QUANTITIES OF WIRE THAT WILL BE REQUIRED. THE CONTRACTOR SHALL INSTALL THIS WIRE AND MAKE THE NECESSARY CONNECTIONS TO THE CONTROLLER. THE COST OF THIS WORK SHALL BE INCLUDED IN THE PRICE BID FOR THE CONTROLLER. IF UNDERGROUND CONNECTION IS DESIRED, THE FIRE COMPANY SHALL PERFORM THE WORK.
- 23. WHERE ONE CONDUIT IS TOO SMALL TO PERMIT THE PASSAGE OF THE REQUIRED SIGNAL WIRING, TWO OR MORE CONDUITS SHALL BE USED. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE THE NUMBER OF CONDUITS NEEDED.
- 24. ALL HOLES FOR L.B. CONDULETS, THIMBLEBOLTS, AND POLE-MOUNTED SIGNAL AND/OR PEDESTRIAN HEADS SHALL BE DRILLED. THE USE OF CUTTING TORCHES IS NOT PERMITTED UNLESS WRITTEN PERMISSION IS GRANTED IN ADVANCE BY THE REGIONAL TRAFFIC ENGINEER.
- 25. EACH PHASE SHALL HAVE ITS OWN GROUND WIRE.
- 26. A CARD SHALL BE PLACED ON THE INSIDE DOOR OF EACH CONTROLLER CABINET LISTING ALL THE COMPONENT PARTS BY SERIAL NUMBER, THE DATE OF INSTALLATION, AND DATE OF OFFICIAL OPERATION. WHERE STATE MICROCOMPUTERS ARE TO BE USED. THIS WILL BE DONE BY STATE MAINTENANCE FORCES.
- PAVEMENT SURFACE.
- 29. ONCE TRAFFIC SIGNAL HEAD ASSEMBLIES HAVE BEEN INSTALLED AND ADJUSTED IN THE FIELD TO THE SATISFACTION OF NYSDOT TRAFFIC MAINTENANCE PERSONNEL, THE CONTRACTOR SHALL APPLY A BEAD OF SILICONE SEALANT AROUND THE SERRATED LOCK RING AT ALL LOCATIONS WHERE VERTICAL PIPE NIPPLES ARE ATTACHED TO THE TOP SURFACES OF BOTH TRAFFIC SIGNAL SECTIONS AND PIPE CROSS BODIES TO DEPENDENT WATER DEFINITION INTO THE STENDER ASSEMBLY ASSEMBLY. PREVENT WATER INFILTRATION INTO THE SIGNAL ASSEMBLY.
- 30. ALL MAST ARM POLE BASES SHALL HAVE ONE UNUSED CONDUIT IN THE BASE, WHICH WILL BE RUN TO THE NEAREST PULLBOX.
- 31. ALL POLES SHALL BE EQUIPPED WITH A GROUNDING TERMINAL LOCATED ON THE OPPOSITE SIDE OF THE POLE FROM THE HANDHOLE, GROUNDING TERMINALS LOCATED ADJACENT TO THE HANDHOLE ARE UNACCEPTABLE.
- 32. THE LOCATION AND ORIENTATION OF THE POLE MOUNTED CONTROLLER SHALL BE BASED ON THE FOLLOWING:

   A. PROVIDING ACCESS TO THE CONTROLLER FROM WITHIN THE RIGHT OF WAY.
   B. PROVIDING PROTECTION TO THE CONTROLLER FROM SNOW PLOWS, AND ERRANT VEHICLES.
   C. PREVENTING THE CONTROLLER FROM OVERHANGING THE SIDEWALK OR PRESENTING A HAZARD TO

  - PEDESTRIANS D.
  - PROVIDING VISIBILITY OF THE SIGNAL HEADS DURING MAINTENANCE OPERATIONS. THE CABINET SHALL BE INSTALLED SO THAT THE BOTTOM OF THE CABINET IS 18" (450 mm) ABOVE THE STANDING PAD.
- ALL SIGNAL WIRE CONNECTIONS TO THE SIGNAL HEADS SHALL BE MADE DIRECTLY TO THE TERMINAL BLOCK(S) INSIDE OF EACH SIGNAL HEAD ASSEMBLY; PIGTAILS AND EXPOSED SPLICES SHALL NOT BE PERMITTED. WHERE TWO SIGNAL HEADS ARE TO BE WIRED FROM THE SAME CABLE, THE SIGNALS SHALL BE DAISY CHAINED WITH ONE LENGTH OF WIRE RUNNING FROM THE CONTROLLER ENTERING THE FIRST SIGNALS WEATHER HEAD AND A SECOND LENGTH LEAVING THE WEATHER HEAD AND RUNNING TO THE OTHER SIGNALS WEATHER HEAD.
- 34. LEAD-INS FROM ALL TRAFFIC SIGNAL DETECTORS SHALL BE TAGGED OR DIAGRAMMED IN THE CONTROLLER CABINET TO IDENTIFY THE DETECTOR THEY SERVE.
- 35. NO SPLICES SHALL BE ALLOWED IN THE SIGNAL CONTROL CABLE.
- 36. UNLESS OTHERWISE NOTED, ALL TRAFFIC SIGNAL EQUIPMENT TO BE REMOVED SHALL BECOME THE PROPERTY OF THE OWNER OF THE SIGNALS.
- 37. ALL SIGNAL POLES TO BE REMOVED SHALL BE REMOVED AS DESCRIBED BELOW UNLESS OTHERWISE SHOWN ON THE PLANS (ALL WORK AND MATERIALS TO BE INCLUDED IN PRICE BID FOR ITEM 680.79000001): A. EMBEDDED POLES SHALL BE CUT OFF A MINIMUM OF 6" (150 mm) BELOW GRADE.
- ANCHOR BASE POLES SHALL BE REMOVED FROM THEIR BASE AND ANCHOR BOLTS SHALL BE CUT OFF A MINIMUM DEPTH OF 6" (150 mm) BELOW GRADE.
- ALL HOLES IN THE BASE SHALL BE FILLED WITH CONCRETE AND THE AREA SHALL BE RESTORED TO A CONDITION MATCHING ADJACENT AREAS, OR AS ORDERED BY THE ENGINEER. D.
- 38. IN AREAS WHERE CABINET BASES ARE TO BE REMOVED, THE DISTURBED GROUND SHALL BE RESTORED TO A CONDITION MATCHING ADJACENT AREAS.
- THE CONTRACTOR SHALL MAINTAIN PEDESTRIAN AND BICYCLE TRAFFIC THROUGH OR AROUND EACH PROJECT 39. LOCATION FOR THE DURATION OF THE CONSTRUCTION. MATERIAL, EQUIPMENT OR OTHER SUCH BARRIERS SHALL NOT BE PLACED OR PARKED IN SUCH A MANNER AS TO OBSTRUCT PEDESTRIAN OR BICYCLE TRAFFIC OR TO PRESENT A SAFETY HAZARD TO THE NON-MOTORIZED PUBLIC. WHERE PEDESTRIAN TRAFFIC MUST BE RELOCATED OFF THE EXISTING FACILITY, WALKWAYS SHALL BE CLEARLY MARKED AND HAVE A LOGICAL START AND TERMINUS

#### NYSDOT SPECIFIC NOTES:

- 1. THE REGIONAL TRAFFIC ENGINEER AT LEAST 1 WEEK PRIOR TO COMMENCING WORK.
- 2.
- 3. STGNAL
- 4. DISPOSED OF. THE SIGNAL CONTROLLER CABINET SHALL BE RETURNED TO NYSDOT.

#### **PROJECT SPECIFIC NOTES:**

- 1. ITEM 680.810107 TO BE SUPPLIED AS DARK GREEN.

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THE REGIONAL TRAFFIC ENGINEER (RTE) SHALL DETERMINE THE HOURS DURING WHICH LANES MAY BE CLOSE TO INSTALL THE TRAFFIC SIGNAL. THE ENGINEER WILL COORDINATE THE TIME RESTRICTION SCHEDULE WITH NO WORK SHALL BE PERFORMED AT THIS LOCATION WITHOUT NOTIFYING THE NYSDOT SIGNAL MAINTENANCE SHOP AT (845) 431-5770 TWO WEEKS IN ADVANCE OF THE PROPOSED COMMENCEMENT OF WORK. 14 DAY ADVANCE NOTICE SHALL ALSO BE PROVIDED TO REQUEST A SIGNAL INSPECTION. UNDER ITEM 680.80324515. THE CONTRACTOR SHALL PICK UP THE STATE SUPPLIED (MODEL 2070 CONTROLLER PURCHASED FROM THE STATE BY THE SIGNAL PERMITTEE) CONTROLLER, CABINET, SWITCH PACKS, AND CONFLICT AND CURRENT MONITORS FROM THE NEW YORK STATE DEPARTMENT OF TRANSPORTATION REGION 8 SIGNAL SHOP AND INSTALL THE EQUIPMENT AT THE SITE OF THE PROPOSED PRIOR TO REMOVING THE EXISTING TRAFFIC SIGNAL, THE CURRENT OWNER SHALL BE CONTACTED AND SHALL AGREE TO THE REMOVAL OF THE TRAFFIC SIGNAL AND HOW THE TRAFFIC SIGNAL EQUIPMENT SHALL BE 2. THE RED INDICATION OF THE SIGNAL HEADS ON EACH APPROACH SHALL BE LEVEL WITH EACH OTHER. 3. UNDER ITEM 680.05010007, THE CONTRACTOR SHALL PROVIDE AND INSTALL ALL COMPONENTS FOR THE VIDEO IMAGING VEHICLE DETECTION SYSTEM WITH DVR CAPABILITIES ACCORDING TO THE MANUFACTURER'S SPECIFICATIONS. THE SYSTEM PROVIDED MUST BE ON THE NYSDOT APPROVED PRODUCT LIST (APL), AND SHOP DRAWINGS MUST BE SUBMITTED FOR NYSDOT APPROVAL. THE COST OF SETTING UP VEHICLE DETECTION ZONES IN ACCORDANCE WITH THE TRAFFIC SIGNAL PLANS, TABLE OF OPERATIONS AND TRAFFIC SIGNAL SHALL BE INCLUDED IN THIS ITEM. SEE DWG. TSP-01 AND TSP-01A FOR DETECTION ZONE LAYOUT AND **Creighton** Manning **T**RICT REE 125, ₩₽₽ ROMBOUT FIR 901 MAIN FISHKILL, N X OFF-SITE SIGNAL IMPROVEMENTS \* ROUTE 52/ROMBOUT FIRE STATION #2 TOWN OF FISHKILL DUTCHESS COUNTY, NEW YORK TRAFFIC SIGNAL NOTES SIGNAL NO. D-163PS SIGNAL NO. D-163PS OFF-SIT ROUTE RTE È **TSN-01** 

HEET NUMBER



A VIOLATION OF LAW FOR ANY PERSON, UNLESS THEY ARE ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, ARCHITECT, LANDSCAPE ARCHITECT, OR LAND SURVEYOR TER AN ITEM IN ANY MAY. IF AN ITEM BEARING THE STAMP OF A LICENSED PROFESSIONAL IS ALTERED, THE ALTERING ENGINEER, ARCHITECT, LANDSCAPE ARCHITECT, OR LAND SURVEYOR STAMP THE DOCUMENT AND INCLUDE THE NOTATION "ALTERED BY" FOLLOWED BY THEIR SIGNATURE, THE DATE OF SUCH ALTERATION, AND A SPECIFIC DESCRIPTION OF THE ALTERATION. IT IS / TO ALT SHALL FILE NAME = N./Projects/2021/121-286 DATE/TIME = 11/29/2022 1:17:32 PM USER = dkarkotsky PLOT = NYSDOT\_CME\_PDf-pltcfg

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| TEM 204.01 TO<br>ADE DEPTH IF<br>DEPTH<br>STRUCTION<br>FOLLOW            |           |                  |                               |                 |   |
|--------------------------------------------------------------------------|-----------|------------------|-------------------------------|-----------------|---|
| "D" CONCRETE                                                             | ž         |                  |                               | П               |   |
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| THAN ONE CONDUIT<br>E PLACED IN THE<br>TRENCH                            |           |                  |                               |                 |   |
| <u>LION</u><br>CEMENT                                                    | z         |                  |                               |                 |   |
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| `<br>_                                                                   | Ŷ         |                  |                               |                 |   |
|                                                                          |           | Manning          | ED FOR: ROMBOUT FIRE DISTRICT | 901 MAIN STREET |   |
|                                                                          |           |                  | PREPAR                        |                 |   |
|                                                                          | ROVEMENTS | KILL<br>NFW YORK | DETAILS                       | 163PS           |   |
| ER AND SHALL BE PAID FOR                                                 | LIMPR     |                  | <b>NAL</b>                    | 0. D-1          |   |
| E OF CAMERA AND HARDWARE                                                 | IGNA      |                  | SIG                           | VAL N           |   |
| 7 SHALL BE CONNECTED TO THE                                              | SITE S    | CHES             | FFIC                          | SIGN            |   |
| SHOWN ON THE PLANS.<br>PRIOR TO DISABLING THE<br>.BE USED TO ACTUATE THE |           |                  | TRA                           |                 |   |
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SHEET NUMBER 8 of 12



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NOTE: ALL FACES SHALL HAVE 5" BACKPLATES.

SIGNAL FACES (NOT TO SCALE)

|   | TRAFFIC SIGNAL LEGEND  |
|---|------------------------|
| 1 | PULL BOX               |
| C | MICROCOMPUTER CABINET  |
| 1 | SIGNAL HEAD            |
|   | SIGNAL POLE            |
|   | OVERHEAD SIGN          |
|   | TRAFFIC SIGNAL CONDUIT |
| Ŷ | VIDEO DETECTION CAMERA |
|   | VIDEO DETECTION ZONE   |

| BΥ                           |                                     |                  |                          |   |                      |                    |                                       |    |                                                   |                                                  |
|------------------------------|-------------------------------------|------------------|--------------------------|---|----------------------|--------------------|---------------------------------------|----|---------------------------------------------------|--------------------------------------------------|
| DATE                         |                                     |                  |                          |   |                      |                    |                                       |    |                                                   |                                                  |
| REVISION                     |                                     |                  |                          |   |                      |                    |                                       |    |                                                   |                                                  |
| NO.                          |                                     |                  |                          | Г |                      |                    |                                       |    |                                                   |                                                  |
|                              |                                     |                  |                          |   |                      | 901 MAIN STREET    | FISHKII I NY 12524                    |    |                                                   | DESIGNED DJK DKAWNBY: N.H.D. CHECKED D.F.K       |
| OFF-SITE SIGNAL IMPROVEMENTS | NY ROUTE 52/ROMBOUT FIRE STATION #2 | TOWN OF FISHKILL | DUTCHESS COUNTY NEW YORK |   | I KAPPIC SIGNAL PLAN | SIGNAL NO. D-163PS | NVS RTE 52 (ROMBOLIT EIRE STATION #2) |    | BATE NOWENDED 2000 CM NET 404 200 COALE: AD NOTED | DATE NOVEMBER 2022 CM NO. 121-200 SCALE AS NOTED |
| •                            |                                     | Ś                | 5                        | P | ).                   | .(                 | )                                     |    |                                                   |                                                  |
| SH                           | CC.                                 | E NI             | IM                       | - | -                    |                    | 2                                     | .f | 1                                                 | 2                                                |

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|            |                                       | TABLE OF C    | ABLES                        |            |             |             |
|------------|---------------------------------------|---------------|------------------------------|------------|-------------|-------------|
|            | ROUTE                                 |               |                              | # 0F       | 680.730514  | 680.731014  |
| FROM       | THROUGH                               | TO            | DESCRIPTION                  | CABLES     | 5 C, 14 AWG | 10 C, 14 AW |
| CONTROLLER | S-1                                   | SIGNAL HEAD A | 14/5C-A-X/X                  | 1          | 65          |             |
| CONTROLLER | S-1                                   | SIGNAL HEAD B | 14/5C-B-X/X                  | 1          | 76          |             |
| CONTROLLER | S-1                                   | SIGNAL HEAD C | 14/5C-C-X/X                  | 1          | 101         |             |
| CONTROLLER | S-1                                   | SIGNAL HEAD D | 14/5C-I-X/X                  | 1          | 109         |             |
| CONTROLLER | C1, PB-1, C2, PB-2, C3, PB-3, C4, S-2 | SIGNAL HEAD E | 14/5C-E-X/X                  | 1          | 240         |             |
| CONTROLLER | C1, PB-1, C2, PB-2, C3, PB-3, C4, S-2 | SIGNAL HEAD F | 14/5C-F-X/X                  | 1          | 249         |             |
| CONTROLLER | C1, PB-1, C2, PB-2, C3, PB-3, C4, S-2 | SIGNAL HEAD G | 14/10C-G-X/X                 | 1          |             | 245         |
| CONTROLLER | C1, PB-1, C2, PB-2, C3, PB-3, C4, S-2 | SIGNAL HEAD H | 14/5C-H-X/X                  | 1          | 263         |             |
| CONTROLLER | C1, PB-1, C2, PB-2, C3, PB-3, C4, S-2 | SIGNAL HEAD I | 14/10C-I-X/X<br>(SEE NOTE 1) | 1          |             | 259         |
|            |                                       |               |                              | TOTAL (LF) | 1103        | 504         |
| NTE.       |                                       |               |                              |            |             |             |

1. THE CONTRACTOR SHALL WIRE SIGNAL HEAD I WITH A 10 CONDUCTOR WIRE IN ORDER TO ALLOW FOR POTENTIAL FUTURE REPLACEMENT OF HEAD I WITH A 5-SECTION HEAD.

|                  | TABLE OF PULLBOXES |           |               |           |                          |                         |  |  |  |  |  |  |
|------------------|--------------------|-----------|---------------|-----------|--------------------------|-------------------------|--|--|--|--|--|--|
|                  |                    | LOCA      | TION          |           |                          | 680.510501              |  |  |  |  |  |  |
| LLBOX NO         | N                  | ORTHING   | THING EASTING |           | ELEV.<br>OF TOP<br>COVER | RECTANGULAR<br>26X18 RC |  |  |  |  |  |  |
| PB-1             | 66                 | 3551.2723 | 988106.89     | 947       | FLUSH                    | 1                       |  |  |  |  |  |  |
| PB-2 663614.0078 |                    |           | 988126.79     | 960       | FLUSH                    | 1                       |  |  |  |  |  |  |
| PB-3 663635.230  |                    |           | 988066.6443   |           | FLUSH                    | 1                       |  |  |  |  |  |  |
|                  |                    |           |               |           | TOTAL (EA)               | 3                       |  |  |  |  |  |  |
|                  |                    | T۵        | BIE OF        | <u>C(</u> | ONDUITS                  |                         |  |  |  |  |  |  |
|                  |                    | LOCA      | TION          | 6         | 80.520108                | 680.520110              |  |  |  |  |  |  |
| CONDUIT          | FROM               | TO        | 3             | NPS STEEL | . 4 NPS STEEL            |                         |  |  |  |  |  |  |
| C1               | C1 5               |           | PB-1          |           |                          | 13                      |  |  |  |  |  |  |
| C2               |                    | PB-1      | PB-2          |           | 70                       |                         |  |  |  |  |  |  |
| C3               |                    | PB-2      | PB-3          |           | 67                       |                         |  |  |  |  |  |  |
| C4               |                    | PB-3      | S-2           |           |                          | 6                       |  |  |  |  |  |  |
|                  |                    |           | TOTAL (LF)    |           | 137                      | 19                      |  |  |  |  |  |  |

|              | TABLE OF | INPUTS 33 THROUGH  | 64       |             |
|--------------|----------|--------------------|----------|-------------|
| SIGNAL NO.   | D-163PS  | NY RT 52 AT ROMBOU | t fire s | TATION #2   |
| SDLC CHANNEL | FUNCTION | DETECTION ZONE NO. | SIZE     | REMARKS     |
| 33           | ø2       | 33                 | 6' X 40' | PRESENCE    |
| 34           | Ø5       | 34                 | 6'X 40'  | PRESENCE    |
| 35           | ø4       | 35                 | 6' X 40' | PRESENCE    |
| 36           | ø4       | 36                 | 6'X 40'  | PRESENCE    |
| 37           | Ø6       | 37                 | 6'X 40'  | PRESENCE    |
| 38           | Ø6       | 38                 | 6'X 40'  | PRESENCE    |
| 39           | Ø8       | 39                 | 6' X 40' | PRESENCE    |
| 40           | Ø2       | 40                 | 6'X6'    | EBR COUNT   |
| 41           | ø2       | 41                 | 6'X6'    | EBT COUNT   |
| 42           | ø5       | 42                 | 6'X6'    | EBL COUNT   |
| 43           | ø4       | 43                 | 6'X6'    | SBR COUNT   |
| 44           | ø4       | 44                 | 6'X6'    | SBL/T COUNT |
| 45           | ø6       | 45                 | 6'X6'    | WBR COUNT   |
| 46           | ø6       | 46                 | 6' X 6'  | WBL/T COUNT |
| 47           | Ø8       | 47                 | 6'X6'    | NBR COUNT   |
| 48           | Ø8       | 48                 | 6'X6'    | NBL/T COUNT |

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        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                          |                                  | DATE:<br>0/26/2022                                                                               |
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                                                                                                            | PHA<br>Ø<br>Ø<br>Ø2 +<br>Ø2<br>Ø<br>Ø<br>Ø<br>Ø<br>4 +<br>FLAS<br>OPERA<br>OPERA<br>OPERA<br>OPERA                                                                                                                                                                                                                                                                    | SE 1<br>2                                                                                                                                                                     | 2 3<br>- G C<br>- R F<br>- G C<br>- G C<br>- G C<br>- G C<br>- G C<br>- G C<br>- FY F<br>- FY F                                | FA         FA           5         4           6         R           7         R           8         R           8         R           8         R           8         R           9         FY           9         FY           9         FY           9         FY | R         R           R         R           R         R           G         R           R         R           R         R           R         R           R         R           R         R           R         R           R         R           P         G           R         R           Q         R           R         R           Q         G           Y         FR           R         (%)           (%)         (%) | 7<br>R<br>R<br>R<br>R<br>G<br>FR<br>FR      | $ \begin{array}{c} 8 \\ R \\ F \\ R \\ F \\ R \\ F \\ F$ |                                                                                                      |                                                                                                                                                                                                                 | BY                           |                                                                                      |             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|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        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                                                                                                            | NOTE:                                                                                                                                                                                                                                                                                                                                                                 | ALL SIGNAL<br>3-INCH REF                                                                                                                                                      | HEADS SHA<br>Lective Bor                                                                                                       | LL BE EQUIP                                                                                                                                                                                                                                                         | PED WITH                                                                                                                                                                                                                                                                                                                                                                                                                       | 5-INCH B                                    |                                                                                                  | TES WITH                                                                                             |                                                                                                                                                                                                                 | DATE                         |                                                            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|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        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                                                                                                            | R = CI<br>+ <del>R</del> = LE<br>FR = F                                                                                                                                                                                                                                                                                                                               | RCULAR RED<br>FT RED ARF<br>LASHING RE<br>T/<br>ELEV.                                                                                                                         | ROW +Y<br>D F1                                                                                                                 | UPERATI<br>Ø =<br>= CIRCULAR<br>= LEFT YEL<br>( = FLASHING<br>SIGNAL PI<br>MOUNTING                                                                                                                                                                                 | UNS LE<br>PHASE<br>YELLOW<br>LOW ARRO'<br>G YELLOW                                                                                                                                                                                                                                                                                                                                                                             | <u>GEND</u><br>G =<br>W -6 =                | E CIRCUL                                                                                         | AR GREEN<br>GREEN AR                                                                                 | N<br>ROW                                                                                                                                                                                                        | REVISION                     |                                                                                      |                                  |                                                                                                  |
| POLE NO.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               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                                                                                                            | EASTING                                                                                                                                                                                                                                                                                                                                                               | FOOTING<br>CAP                                                                                                                                                                | NUMBER                                                                                                                         | HEIGHT<br>(FT)                                                                                                                                                                                                                                                      | LENGTH                                                                                                                                                                                                                                                                                                                                                                                                                         | MIN.<br>Code                                | QTY.<br>(CY)                                                                                     | ANCHU<br>BOLT<br>DIAMET                                                                              | R ANCHOR<br>BOLT<br>ER LENGTH                                                                                                                                                                                   |                              |                                                                                      |                                  |                                                                                                  |
| S-1<br>S-2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             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                                                                                                            | 988101.3670<br>988065.4531                                                                                                                                                                                                                                                                                                                                            | FLUSH<br>FLUSH                                                                                                                                                                | 680.632055<br>680.632150                                                                                                       | 20                                                                                                                                                                                                                                                                  | 55<br>50                                                                                                                                                                                                                                                                                                                                                                                                                       | L6<br>L8<br>Total (CY)                      | 3.4<br>3.9<br>7.3                                                                                | SE                                                                                                   | EE NOTE 2                                                                                                                                                                                                       |                              |                                                                                      |                                  |                                                                                                  |
| NOIES:<br>1. IT IS<br>VERIFY<br>OF THI<br>2. ANCHOF<br>2. ANCHOF                                                                                                                                           | THE CONTRAC<br>THAT THE<br>E SIGNAL HE<br>R BOLT MEAS<br>BOLT MEAS<br>SIGNAL EQUI<br>RA VIDEO DET<br>AND CONCRET<br>SIGNAL EQUI<br>RA VIDEO DET<br>AND CONCRET<br>SIGNAL EQUI<br>RA VIDEO DET<br>AND CONCRET<br>SIGNAL EQUI<br>RA VIDEO DET<br>AND CONCRET<br>SIGNAL EQUI<br>RA VIDEO DET<br>AND CONCRET<br>OLE, DUAL MA                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | CTOR'S RESPO<br>CLEARANCE F<br>AD IS A MINI<br>SUREMENTS AN<br>EUREMENTS AN<br>FILL INCLUDIN<br>PMENT (REQUIR<br>ECTION SYSTE<br>E FOUNDATION<br>B INCH, REINF(<br>OATED, 3"<br>OATED, 4"<br>ST ARM, 20 F<br>ST ARM, 21 F                                                                                                                                             | INSIBILITY T<br>ROM THE PA<br>MUM OF 16'<br>RE TO BE C<br>SSTIMATE<br>DESCRI<br>G SURFACE R<br>EMENT B)<br>M<br>DRCED CONCR<br>EET MOUNTIN                                    | O DETERMIN<br>VEMENT AT<br>-6" PRIOR T<br>OMPLETED B'<br>OF QUAN<br>PTION<br>ESTORATION<br>ETE<br>G HEIGHT, 55<br>G HEIGHT, 50 | E THE FINAL<br>ITS HIGHEST<br>0 ORDERING<br>Y THE ENGIN<br>ITITIES                                                                                                                                                                                                  | GROUND<br>POINT AL<br>THE MAST<br>EER FOR<br>BER FOR<br>NGTH                                                                                                                                                                                                                                                                                                                                                                   | AND PAVE<br>ONG THE<br>ARM POL<br>AS-BUIL T | MENT EL<br>MAST A<br>ES.<br>RECORD                                                               | EVATIONS<br>RM TO TI<br>PLANS.<br>UNIT<br>LF<br>EA<br>INTM<br>EA<br>CY<br>EA<br>LF<br>LF<br>EA<br>EA | S AND<br>HE BOTTOM<br>QUANTITY<br>156<br>2<br>3<br>1<br>1<br>7.3<br>3<br>1<br>37<br>19<br>1<br>1                                                                                                                |                              | Manning                                                                              | PARED FOR: ROMBOUT FIRE DISTRICT | FISHKILL, NY 12524<br>SIGNED: D.J.K. DRAWN BY: K.H.D. CHECKED: D.P.R.                            |
| IC SIGNAL F<br>L CABLE 5<br>L CABLE 10<br>L CABLE 10<br>L CABLE 10<br>LE EXISTING<br>LE TRAFFIC<br>LL MICROCON<br>IC SIGNAL N<br>IC SIGNAL N<br>IC SIGNAL N<br>IC SIGNAL 1<br>IC SIGNAL 5<br>IC SIGNAL 5<br>IC SIGNAL 6<br>IC SIGNAL 6 | YOLE, DUAL MA<br>CONDUCTORS,<br>OVERHEAD TR<br>TRAFFIC SIGN<br>MPUTER CABIN<br>MPUTER CABIN<br>MPUTER CABIN<br>MODULE - 12<br>MODULE - 12 | ST ARM, 21 F<br>14 AWG<br>14 AWG<br>AFFIC SIGNAL<br>14 AWG<br>AFFIC SIGNAL<br>1AL HEADS<br>WIRE ASSEMBL<br>T<br>INCH, RED BAL<br>INCH, RED BAL<br>INCH, RED BAL<br>INCH, GREEN B<br>WICH, GREEN B<br>VE I, 12 INCH<br>MBLY - 1 WAY<br>WITH YELLOW<br>INCH, GREEN B<br>E G<br>AMP, SINGLE P<br>INCE<br>E G<br>C<br>C GENERATOR<br>0.06 AWG<br>RAFFIC SIGNAL<br>ANTENNA | EET MOUNTIN<br>CABLE AND /<br>Y<br>L, LED<br>OW, LED<br>BALL, LED<br>ARROW, LED<br>ARROW, LED<br>MAST ARM N<br>REFLECTIVE<br>HASE, <sup>24</sup> 9(20 V<br>TRANSFER S<br>POLE | G HEIGHT, 50<br>APPURTENANCE<br>AOUNT (CABLE<br>TAPE<br>VOLT W/ BYPA<br>WITCH - STAT                                           | FEET ARM LE<br>S<br>TYPE)<br>SS SWITCH FC<br>E SUPPLIED                                                                                                                                                                                                             | NGTH                                                                                                                                                                                                                                                                                                                                                                                                                           | INSTALLAT                                   |                                                                                                  | EA<br>LF<br>EA<br>EA<br>EA<br>EA<br>EA<br>EA<br>EA<br>EA<br>EA<br>EA                                 | 1<br>1103<br>530<br>1<br>1<br>1<br>1<br>8<br>1<br>1<br>8<br>2<br>8<br>1<br>2<br>8<br>9<br>9<br>6<br>1<br>1<br>1<br>1<br>1<br>28<br>9<br>9<br>6<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1 | OFF-SITE SIGNAL IMPROVEMENTS | NY KOULE 52/KOMBOUL FIRE STATION #2<br>TOWN OF FISHKILL<br>DUTCHESS COUNTY, NEW YORK | TRAFFIC SIGNAL PLAN REFIN        | NYS RTE 52 (ROMBOUT FIRE STATION #2)<br>DATE: NOVEMBER 2022 CM No.: 121-286 SCALE: AS NOTED DESI |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        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SHEET NUMBER 10 of 12

|      |              | TAE        | BLE O                  | = SIGN                  | NAL HE                    | EADS                       |                          |                           |                                                            |                                                     |
|------|--------------|------------|------------------------|-------------------------|---------------------------|----------------------------|--------------------------|---------------------------|------------------------------------------------------------|-----------------------------------------------------|
|      |              |            |                        |                         | MOD                       | JLES                       |                          |                           | SECTION                                                    |                                                     |
| HEAD | BRACKET      | FACES      | 680.810101<br>Red Ball | 680.810102<br>RED ARROW | 680.810103<br>Yellow Ball | 680.810104<br>Yellow Arrow | 680.810105<br>GREEN BALL | 680.810106<br>Green Arrow | 680.810107<br>Traffic Signal<br>Section, Type I<br>12 Inch | 680.81990008<br>Traffic Signal<br>Backplate, 5 Inch |
| A    | 680.81230008 | 5          | 1                      |                         | 1                         |                            | 1                        |                           | 3                                                          | 1                                                   |
| В    | 680.81230008 | 4          | 1                      |                         | 1                         |                            | 1                        |                           | 3                                                          | 1                                                   |
| C    | 680.81230008 | 8          | 1                      |                         | 1                         |                            | 1                        |                           | 3                                                          | 1                                                   |
| D    | 680.81230008 | 9          | 1                      |                         | 1                         |                            | 1                        |                           | 3                                                          | 1                                                   |
| E    | 680.81230008 | 3          | 1                      |                         | 1                         |                            | 1                        |                           | 3                                                          | 1                                                   |
| F    | 680.81230008 | 2          | 1                      |                         | 1                         |                            | 1                        |                           | 3                                                          | 1                                                   |
| G    | 680.81230008 | 1          |                        | 1                       |                           | 2                          |                          | 1                         | 4                                                          | 1                                                   |
| H    | 680.81230008 | 6          | 1                      |                         | 1                         |                            | 1                        |                           | 3                                                          | 1                                                   |
| I    | 680.81230008 | 7          | 1                      |                         | 1                         |                            | 1                        |                           | 3                                                          | 1                                                   |
|      |              | TOTAL (FA) | 8                      | 1                       | 8                         | 2                          | 8                        | 1                         | 28                                                         | 9                                                   |

|             | TABLE OF OVERHEAD SIGNS |       |              |                      |                  |          |  |  |  |  |
|-------------|-------------------------|-------|--------------|----------------------|------------------|----------|--|--|--|--|
| ITEM<br>NO. | LOCATION<br>NO.         | TEXT  | MUTCD<br>No. | SIZE                 | TYPE OF<br>MOUNT | QUANTITY |  |  |  |  |
| 680.8207    | A                       | ONLY  | R3-5L        | 30" × 36"<br>7.5 SF  | O.H.<br>TYPE G   | 1        |  |  |  |  |
| 680.8207    | В                       | ONLY  | R3-5R        | 30" x 36"<br>7.5 SF  | O.H.<br>TYPE G   | 2        |  |  |  |  |
| 680.8207    | C                       | NY 52 | D3-1         | 66" x 24"<br>11.0 SF | O.H.<br>TYPE G   | 2        |  |  |  |  |
| 680.8207    | D                       | 1     | R3-6L        | 30" x 36"<br>7.5 SF  | O.H.<br>Type g   | 1        |  |  |  |  |

| 014<br>AWG                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | PHASE         1           Ø2         &FY-           Ø5         &C-           Ø6         &R-           Ø2 + Ø5         &C-           Ø2 + Ø5         &C-           Ø4         R           Ø8         R           Ø4 + Ø8         R           FLASHING            ØFRATION | TABLE         C           2         3           G         G           R         R           G         G           G         G           R         R           R         R           R         R           R         R           R         R           FY         FY | DF OPERA<br>FA(<br>4 5<br>R F<br>R F<br>G C<br>R F<br>G C<br>R F<br>R F<br>R F<br>F<br>Y F<br>DISPLAY | TIONS<br>CES<br>5 6<br>R R<br>R R<br>G R<br>R R<br>G R<br>R G<br>R R<br>R G<br>Y FR | 7<br>R<br>R<br>R<br>R<br>G<br>R<br>G<br>FR  | 8 5<br>R F<br>R F<br>R F<br>R F<br>G C<br>G C<br>F<br>R F | R                                                                      |                                                                                                                                                 |        |                  |                                       | DATE:                                    |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|---------------------------------------------|-----------------------------------------------------------|------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------|--------|------------------|---------------------------------------|------------------------------------------|
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | ALL LENSES<br>SHALL BE 12"<br>DIA. (300 mm)                                                                                                                                                                                                                              |                                                                                                                                                                                                                                                                     |                                                                                                       |                                                                                     |                                             |                                                           |                                                                        |                                                                                                                                                 | BY     |                  |                                       |                                          |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | NOTE: ALL SIGNAL                                                                                                                                                                                                                                                         |                                                                                                                                                                                                                                                                     |                                                                                                       | PED WITH                                                                            | 5-INCH B                                    | ACKPLAT                                                   | ES WITH                                                                |                                                                                                                                                 | DATE   |                  |                                       |                                          |
| STATION #2<br>REMARKS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | R = CIRCULAR RED<br>+R = LEFT RED ARR<br>FR = FLASHING REI                                                                                                                                                                                                               | 0 <b>W</b> <del>Y</del> =<br>0 <b>W</b> <del>Y</del> =<br>0 FY                                                                                                                                                                                                      | DPERATI(<br>Ø =<br>CIRCULAR<br>ELEFT YELL<br>FLASHING                                                 | DNS LE<br>PHASE<br>YELLOW<br>OW ARRON<br>YELLOW                                     | <u>`GEND</u><br>G =<br>N → <del>G</del> =   | CIRCUL<br>LEFT (                                          | AR GREEN<br>GREEN ARRO                                                 | W                                                                                                                                               |        |                  |                                       |                                          |
| 0' PRESENCE<br>0' PRESENCE<br>0' PRESENCE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | TA                                                                                                                                                                                                                                                                       | BLE OF S                                                                                                                                                                                                                                                            | SIGNAL PO                                                                                             | DLES                                                                                |                                             | 50                                                        |                                                                        |                                                                                                                                                 | NOISIN |                  |                                       |                                          |
| O'     PRESENCE       O' <td< td=""><td>ASTING CAP</td><td>ITEM<br/>Number</td><td>MOUNTING<br/>HEIGHT<br/>(FT)</td><td>ARM<br/>LENGTH</td><td>MIN.<br/>Code</td><td>QTY.<br/>(CY)</td><td>ANCHOR<br/>BOLT<br/>DIAMETER</td><td>ANCHOR<br/>BOLT<br/>LENGTH</td><td>R</td><td></td><td></td><td></td></td<> | ASTING CAP                                                                                                                                                                                                                                                               | ITEM<br>Number                                                                                                                                                                                                                                                      | MOUNTING<br>HEIGHT<br>(FT)                                                                            | ARM<br>LENGTH                                                                       | MIN.<br>Code                                | QTY.<br>(CY)                                              | ANCHOR<br>BOLT<br>DIAMETER                                             | ANCHOR<br>BOLT<br>LENGTH                                                                                                                        | R      |                  |                                       |                                          |
| 5'         SBR COUNT           5'         SBL/T COUNT           5'         SBL/T COUNT           5'         WBR COUNT                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 101.3670 FLUSH<br>3065.4531 FLUSH                                                                                                                                                                                                                                        | 680.632055<br>680.632150                                                                                                                                                                                                                                            | 20<br>21                                                                                              | 55<br>50                                                                            |                                             | 3.4<br>3.9                                                | CEE                                                                    | NOTE 2                                                                                                                                          |        |                  |                                       |                                          |
| 1. IT IS THE CONTRACTOR<br>VERIFY THAT THE CLEA<br>OF THE SIGNAL HEAD IS<br>2. ANCHOR BOLT MEASUREN                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | YS RESPONSIBILITY T<br>ARANCE FROM THE PA<br>IS A MINIMUM OF 16'-<br>MENTS ARE TO BE CC                                                                                                                                                                                  | O DETERMINE<br>VEMENT AT I<br>-6" PRIOR TO<br>DMPLETED BY                                                                                                                                                                                                           | THE FINAL<br>TS HIGHEST<br>ORDERING<br>THE ENGINE                                                     | GROUND A<br>POINT AL<br>THE MAST<br>EER FOR A                                       | AND PAVEI<br>ONG THE<br>ARM POL<br>AS-BUILT | MENT EL<br>MAST A<br>ES.<br>RECORD                        | EVATIONS A<br>RM TO THE<br>PLANS.                                      | AND<br>BOTTOM                                                                                                                                   |        |                  | STRICT                                | 524<br>D. CHECKED: D.P.R.                |
| ITEM                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | ESTIMATE                                                                                                                                                                                                                                                                 | OF QUANT                                                                                                                                                                                                                                                            | TITIES                                                                                                |                                                                                     |                                             |                                                           |                                                                        |                                                                                                                                                 | i i    | in C             | RE DIS                                | N 12                                     |
| 206.03 CONDUIT EXCAVATION AND BACKFILL<br>206.05 TEST PIT EXCAVATION<br>619.1612 MAINTAIN TRAFFIC SIGNAL EQUIPMENT<br>680.05010007 360 DEGREE CAMERA VIDEO DETECTI<br>680.510501 POLE EXCAVATION AND CONCRETE FO<br>680.510501 PULLBOX-RECTANGULAR, 26 X 18 INC<br>680.520108 CONDUIT, METAL STEEL, ZINC COATEL<br>680.632055 TRAFFIC SIGNAL POLE, DUAL MAST A<br>680.632150 TRAFFIC SIGNAL POLE, DUAL MAST A<br>680.632150 TRAFFIC SIGNAL POLE, DUAL MAST A<br>680.63214 SIGNAL CABLE 5 CONDUCTORS, 14 AN                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | INCLUDING SURFACE RE<br>IT (REQUIREMENT B)<br>UNDATION<br>CL, REINFORCED CONCRE<br>D, 3"<br>D, 4"<br>ARM, 20 FEET MOUNTING<br>RRM, 21 FEET MOUNTING<br>WG                                                                                                                | ESTORATION<br>ETE<br>3 HEIGHT, 55 F<br>3 HEIGHT, 50 F                                                                                                                                                                                                               | FEET ARM LEI<br>FEET ARM LEI                                                                          | NGTH<br>NGTH                                                                        |                                             |                                                           | LF<br>EA<br>INTM<br>EA<br>CY<br>EA<br>LF<br>EA<br>EA<br>EA<br>EA<br>LF | 156           2           3           1           7.3           3           137           19           1           1           1           1103 |        | W                | PREPARED FOR: ROMBOUT FIF<br>901 MAIN | FISHKILL,<br>DESIGNED: D.J.K. TORAWN BY: |
| 680.731014         SIGNAL CABLE 10 CONDUCTORS, 14 A           680.78020008         REMOVE EXISTING OVERHEAD TRAFFIC           680.78020008         REMOVE EXISTING TRAFFIC SIGNAL H           680.78040008         REMOVE EXISTING TRAFFIC SIGNAL H           680.78040008         REMOVE TRAFFIC SIGNAL SPAN WIRE           680.80324515         INSTALL MICROCOMPUTER CABINET           680.801010         TRAFFIC SIGNAL MODULE - 12 INCH,           680.702         TDAFFIC SIGNAL MODULE - 12 INCH,                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | AWG<br>C SIGNAL CABLE AND A<br>HEADS<br>ASSEMBLY<br>, RED BALL, LED<br>PED APPOW LED                                                                                                                                                                                     | PPURTENANCES                                                                                                                                                                                                                                                        |                                                                                                       |                                                                                     |                                             |                                                           | EA<br>EA<br>EA<br>EA<br>EA<br>EA                                       | 530<br>1<br>5<br>1<br>1<br>8<br>1                                                                                                               | MENTS  | YORK             | AN                                    | TATION #2)                               |
| 100-0-010102   ITAFFIC SIGNAL MOUDLE - 12 INCH,<br>680.810103 TRAFFIC SIGNAL MOUDLE - 12 INCH,<br>680.810104 TRAFFIC SIGNAL MOUDLE - 12 INCH,<br>680.810105 TRAFFIC SIGNAL MOUDLE - 12 INCH,<br>680.810107 TRAFFIC SIGNAL SECTION - 12 INCH,<br>680.810107 TRAFFIC SIGNAL SECTION - TYPE I,<br>680.81230008 TRAFFIC SIGNAL BRACKET ASSEMBLY<br>680.81990008 TRAFFIC SIGNAL BACK PLATES WITH<br>680.8207 OVERHEAD SIGN ASSEMBLY, TYPE G<br>680.99020008 ELECTRIC METER SOCKET, 200 AMP,<br>680.94000008 TRAFFIC SIGNAL SERVICE ENTRANCE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | , NED ARNUM, LED<br>, YELLOW ARLL, LED<br>, VELLOW ARROW, LED<br>, OREEN BALL, LED<br>, GREEN ARROW, LED<br>12 INCH<br>( - 1 WAY MAST ARM M<br>YELLOW REFLECTIVE T<br>SINGLE PHASE, <sup>24</sup> 0/20 V                                                                 | OUNT (CABLE 1<br>APE<br>OLT W/ BYPAS                                                                                                                                                                                                                                | TYPE)<br>S Switch Fo                                                                                  | R SIGNAL I                                                                          | INSTALLATI                                  | ONS                                                       | EA<br>EA<br>EA<br>EA<br>EA<br>EA<br>EA<br>EA<br>EA<br>EA<br>EA<br>EA   | 1<br>8<br>2<br>8<br>1<br>28<br>9<br>9<br>6<br>6<br>1<br>1<br>1                                                                                  |        | TOWN OF FISHKILL | AFFIC SIGNAL PI<br>SIGNAL NO. D-163PS | 12 (ROMBOUT FIRE S                       |
| 1000.34330000 INSTALL ELECTRICAL DISCONNECT 0<br>680.95020615 SERVICE CABLE 2 CONDUCTOR NO. OE<br>680.99020010 REMOVE STEEL ANCHOR BASE TRAFFI<br>683.08020104 3G/4G LTE GATEWAY MODEM W/ANTER                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | EMERATOR TRANSFER SU<br>6 AWG<br>IC SIGNAL POLE<br>INNA                                                                                                                                                                                                                  | NICH - STATE                                                                                                                                                                                                                                                        |                                                                                                       |                                                                                     |                                             |                                                           | EA<br>EA<br>EA                                                         | 1<br>142<br>2<br>1                                                                                                                              |        |                  | TR                                    | NYS RTE 5                                |

Y ARE ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, ARCHITECT, LANDSCAPE ARCHITECT, OR LAND SURVEYOR STAMP OF A LICENSED PROFESSIONAL IS ALTERED, THE ALTERING ENGINEER, ARCHITECT, LANDSCAPE ARCHITECT, OR LAND SURVEYOR "ALTERED BY" FOLLOWED BY THEIR SIGNATURE, THE DATE OF SUCH ALTERATION, AND A SPECIFIC DESCRIPTION OF THE ALTERATION. Ľ ≝ ≝ ≝ S FOR ANY PERSON, UNLESS Way. IF AN ITEM BEARING IT AND INCLUDE THE NOTAT UMEN. ₽⊒З A VIOLATION ( TER AN ITEM STAMP THE D L A S 드 년 옷

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|      | S-1 MAST ARM A LOAD TABLE |                       |                   |                             |           |  |  |  |  |  |  |
|------|---------------------------|-----------------------|-------------------|-----------------------------|-----------|--|--|--|--|--|--|
| LOAD | TYPE                      | NO. OF 1'<br>SECTIONS | DEAD LOAD<br>(Ib) | PROJECTED<br>WIND AREA (SF) | PROJECTED |  |  |  |  |  |  |
| 1    | VIDEO DETECTION<br>CAMERA | N/A                   | 26.25             | 1.24                        | 4         |  |  |  |  |  |  |
| 2    | STREET SIGN               | N/A                   | 40                | 11                          | 11        |  |  |  |  |  |  |
| 3    | SIGNAL                    | 3                     | 53.55             | 8.16                        | 20.88     |  |  |  |  |  |  |
| 4    | SIGNAL                    | 3                     | 53.55             | 8.16                        | 20.88     |  |  |  |  |  |  |

|      | S-1 MAST ARM B LOAD TABLE |                       |                   |                             |                            |  |  |  |  |  |  |
|------|---------------------------|-----------------------|-------------------|-----------------------------|----------------------------|--|--|--|--|--|--|
| LOAD | TYPE                      | NO. OF 1'<br>SECTIONS | DEAD LOAD<br>(Ib) | PROJECTED<br>WIND AREA (SF) | PROJECTED<br>ICE AREA (SF) |  |  |  |  |  |  |
| 1    | SIGN                      | N/A                   | 33                | 7.5                         | 7.5                        |  |  |  |  |  |  |
| 2    | SIGNAL                    | 3                     | 53.55             | 8.16                        | 20.88                      |  |  |  |  |  |  |
| 3    | SIGNAL                    | 3                     | 53.55             | 8.16                        | 20.88                      |  |  |  |  |  |  |



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DATE: 26/2022



IT IS A VIOLATION OF LAW FOR ANY PERSON, UNLESS THEY ARE ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, ARCHITECT, LANDSCAPE ARCHITECT, OR LAND SURVEYOR TO ALTER AN ITEM IN ANY MAY. IF AN ITEM BEARING THE STAMP OF A LICENSED PROFESSIONAL IS ALTERED. THE ALTERING ENCHETER, ARCHITECT, LANDSCAPE ARCHITECT, OR LAND SURVEYOR SHALL STAMP THE DOCUMENT AND INCLUDE THE NOTATION "ALTERED BY" FOLLOWED BY THEIR SIGNATURE, THE DATE OF SUCH ALTERATION, AND A SPECIFIC DESCRIPTION OF THE ALTERATION.

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|---|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------|--------------------------------|-----------------------------------------------------------------------------------------|-------------------------------------------------------------|--------------------------------------------------|-----------------------------------------------|
|   | STRUCTURAL GENERAL NOTES                                                                                                                                                                                                                                                                                                           |                      |                                |                                                                                         |                                                             |                                                  |                                               |
|   | A. GENERAL<br>1 SEE ARCHITECTURAL MECHANICAL AND ELECTRICAL DRAWINGS FOR ADDITIONAL INFORMATION                                                                                                                                                                                                                                    | E. STE               | EL                             | STRUCTURAL STEEL                                                                        | SHALL BE                                                    | FABRICATED                                       |                                               |
|   | <ol> <li>SLE ARCHITECTORAL, MECHANICAL AND ELECTRICAL DRAWINGS FOR ADDITIONAL INFORMATION<br/>AND DETAILS. ALSO, SEE STRUCTURAL SPECIFICATIONS.</li> <li>THE STRUCTURE HAS BEEN DESIGNED TO BE SELF-SUPPORTING AND STABLE AFTER THE<br/>CONSTRUCTION OF THE BUILDING HAS BEEN COMPLETED. THE STABILITY OF THE STRUCTURE</li> </ol> |                      | ACCO<br>FOR<br>FOR             | RDANCE WITH THE LAT<br>THE DESIGN FABRICATI<br>BUILDINGS".                              | ION AND EREC                                                | THE AIS                                          |                                               |
| _ | PRIOR TO TOTAL COMPLETION IS SOLELY THE RESPONSIBILITY OF THE CONTRACTOR.<br>JOBSITE SAFETY AND CONSTRUCTION PROCEDURES ARE SOLELY THE RESPONSIBILITY OF THE<br>CONTRACTOR. LACK OF COMMENT BY THE ENGINEER IS NOT TO BE INTERPRETED AS                                                                                            | 2.<br>3.             | PROVI                          | DE WEB STIFFENER PL                                                                     | ATES FOR BEA                                                | MS CONTIN                                        | R UP.<br>NOUS OV                              |
|   | APPROVAL OF THOSE ASPECTS OF WORK.<br>B. DESIGN AND LOADING<br>1. ALLOWABLE UNIT STRESSES AND DESIGN CRITERIA ARE IN ACCORDANCE WITH THE FOLLOWING:                                                                                                                                                                                | 4.                   | COLU<br>WHERI<br>ALL S<br>COMF | MNS OR BELOW SUPP<br>EVER WELDING IS EMPI<br>SUCH WELDING SHALL<br>PLETE ACCORD WITH TH | ORTED COLUM<br>LOYED, EITHER<br>BE PERFORME<br>HE "STRUCTUR | NS.<br>IN FABRIC<br>D BY QUAL<br>AL WELDING      | ATION OR<br>JFIED WEL<br>CODE -               |
| к | <ul> <li>A) "BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE" AC1 318–14.</li> <li>B) "SPECIFICATION FOR STRUCTURAL STEEL BUILDINGS" AISC 360–16.</li> <li>C) LATEST EDITION OF "NEW YORK STATE BUILDING CODE" (2018 INTERNATIONAL BUILDING CODE).</li> </ul>                                                                   | 5.                   | THE A<br>PROVI<br>NEW          | AMERICAN WELDING CO<br>DE ANGLE FRAMES FO<br>FLOOR AND ROOF OP                          | DDE.<br>R ROOF DRAIN<br>ENINGS 12-IN                        | SUMP PAI<br>CHES OR G                            | NS AND A<br>REATER.                           |
|   | <ul><li>2. SPECIAL LOADS:</li><li>A) THE CONTRACTOR SHALL MAKE PROVISIONS FOR TEMPORARY CONSTRUCTION</li></ul>                                                                                                                                                                                                                     | 6.                   |                                | ES TO BE LS X 3-17<br>SH LOOSE ANGLE LINT<br>INDICATED, FOR ALL<br>DWS DICTS PASS-TH    | TELS, UNLESS<br>OPENINGS IN<br>HROLIGHS FTC                 | OTHER LINI<br>MASONRY<br>FOR FACH                | TELS ARE<br>WALLS FOUR (4                     |
|   | LOADS WHICH WILL OCCUR DURING THE ERECTION OF THE BUILDING.<br>3. ALLOWABLE PRESUMPTIVE SOIL BEARING PRESSURE: 2 TONS/SF                                                                                                                                                                                                           |                      | MASO                           | NRY, FURNISH ONE AN                                                                     | NGLE AS FOLL                                                | DWS:                                             | LINTEL                                        |
| J | <ul> <li>4. DESIGN STRESSES AND MATERIAL:</li> <li>A) CONCRETE (28-DAY STRENGTH, NORMAL WEIGHT) 3,000 PSI</li> <li>B) REINFORCING STEEL ASTM A-615, FY = 60 KSI</li> <li>C) WELLER ASTM A 185 FY = 60 KSI</li> </ul>                                                                                                               |                      | 4'<br>5'<br>6'                 | UP TO 4'-6"<br>6" TO 5'-6"<br>6" TO 6'-6"<br>6" TO 7'-6"                                |                                                             | L3-1/2 X<br>L4 X 3<br>L5 X 3<br>L6 X             | 3-1/2 ×<br>3-1/2 X<br>3-1/2 X<br>3-1/2 ×      |
|   | D)MISCELLANEOUS STRUCTURAL STEELASTM A36, FY = 36 KSIE)STRUCTURAL WIDE FLANGESASTM A992, FY = 50 KSIF)STRUCTURAL STEEL PIPESASTM A-53, GRADE B, FY = 35 KSIG)STRUCTURAL STEEL TUBESASTM A-500, GRADE B, FY = 46 KSI                                                                                                                |                      | For<br>Legs<br>Minim           | SIX (6") INCH WALLS,<br>OUTSTANDING. FOR<br>IUM SIX (6") INCH LOI                       | USE TWO (2<br>FOUR (4")<br>NG BEARING F                     | ) ANGLES<br>INCH WALLS<br>OR ALL LIN             | WITH<br>3, USE S<br>ITELS.                    |
|   | H)BOLTS:3/4– INCH DIAMETERASTM A-325I)HOLLOW CONCRETE MASONRY UNITSASTM C90 GRADE N-1J)MORTARASTM C270 TYPE SK)WELDING ELECTRODESE-70XX                                                                                                                                                                                            |                      | FOR<br>USE<br>X 7–             | EIGHT (8") CMU BEAR<br>TWO (2) L6 X 3–1/2<br>5/8" WIDE PLATE WEL                        | ING WALLS WIT<br>X 1/2 ANGLI<br>LDED TO THE                 | TH OPENING<br>ES, BACK-1<br>BOTTOM OF            | S 7'-6"<br>[O-BACK,<br>THE ANG                |
| I | L) HOT DIPPED GALVANIZING – FABRICATED PRODUCTS ASTM A-123<br>M) HOT DIPPED GALVANIZING – HARDWARE ASTM A-153<br>C. FOUNDATION                                                                                                                                                                                                     | 7.<br>8.             | PROVI<br>SUBMI                 | DE SHOP COAT OF PA<br>T SHOP DRAWINGS, IN                                               | NINT.<br>ICLUDING LINTE                                     | L SCHEDUL                                        | _e and si                                     |
|   | 1. ALL FOUNDATION EXCAVATIONS SHALL BE TO REQUIRED ELEVATION OR<br>UNDISTURBED SOIL. ALL FOUNDATIONS EXCAVATIONS SHALL BE TO<br>SOUND GROUND.                                                                                                                                                                                      | F. MET.<br>1.        | AL DEC<br>PERMA<br>COMF        | K<br>ANENT METAL FLOOR D<br>POSITE METAL FLOOR D                                        | DECK: 1-1/2<br>DECK.                                        | -INCH DEE                                        | P, 20-GA                                      |
|   | 2. BOTTOM OF EXTERIOR FOOTING TO BE A MINIMUM 3'-6" BELOW<br>FINISHED GRADE. ALL FOOTINGS SHALL BE A MINIMUM OF 1'-6" BELOW<br>FXISTING GRADE. UN ESS ON STRUCTURAL FILL.                                                                                                                                                          | 2.                   | ROOF                           | DECK: 1-1/2-INCH                                                                        | DEEP, 22-GA                                                 | UGE, WIDE                                        | RIB, TYPE                                     |
|   | 3. STRUCTURAL FILL SHALL BE APPROVED STRUCTURAL GRAVEL COMPACTED<br>IN 8" LAYERS TO 95% OF MODIFIED OPTIMUM DENSITY.                                                                                                                                                                                                               | 3.                   | AT S <sup>-</sup><br>5/8-      | IRUCTURAL STEEL S                                                                       | UPPORT – W<br>DDLE WELDS                                    | ELD DECK                                         | AT 12"<br>STEEL S                             |
| Н | 4. ALL FOUNDATION EXCAVATIONS AND STRUCTURAL FILL SHALL BE TESTED<br>AND INSPECTED TO ENSURE THE ALLOWABLE SOIL BEARING PRESSURE AND<br>DENSITY OF FOUNDATION BEARING MATERIALS.                                                                                                                                                   | 4.                   | ALL R                          | METER SUPPORT PA                                                                        | RALLEL TO D                                                 | ECK SPAN<br>6" O.C. WI                           | ".<br>Thin 15' '                              |
|   | 5. BOTH SIDES OF FOUNDATION WALLS SHALL BE BACKFILLED SIMULTAN-<br>EOUSLY TO PREVENT OVERTURNING OR LATERAL MOVEMENT OF WALLS.                                                                                                                                                                                                     | 5.                   | SIDE                           | LAPS SHALL BE FAS<br>T METAL SCREWS.                                                    | STENED AT M                                                 | ID-SPAN,                                         | USING S                                       |
|   | 6. DO NOT BACKFILL AGAINST RETAINING BASEMENT WALLS UNTIL<br>CONCRETE HAS ACHIEVED 75% OF 28 DAY SPECIFIED STRENGTH.                                                                                                                                                                                                               | G. MAS               | SONRY (                        | CONSTRUCTION                                                                            |                                                             |                                                  |                                               |
|   | D. CONCRETE WORK AND REINFORCING                                                                                                                                                                                                                                                                                                   | 1.                   | ALL M<br>EDITI(<br>(ACI        | ASONRY CONSTRUCTIO<br>ON OF "BUILDING COI<br>530-02/ASCE 5-02).                         | n shall be ii<br>De requireme                               | N ACCORDA<br>NTS FOR M                           | NCE WITH<br>IASONRY S                         |
| G | <ol> <li>ALL CONCRETE CONSTRUCTION SHALL BE IN ACCORDANCE WITH ACT SUT LATEST EDITION.</li> <li>WALL FOOTING ARE TO BE 12 INCHES DEEP WITH 6-INCH PROJECTIONS,<br/>UNLESS OTHERWISE NOTED.</li> </ol>                                                                                                                              | 2.<br>3.             | ALL M                          | ASONRY SHALL BE LA                                                                      | ID IN RUNNING                                               | ; BOND.<br>FO ASTM C:                            | 270.                                          |
|   | 3. ALL FOUNDATION WALLS ARE TO BE KEYED TO FOOTINGS.                                                                                                                                                                                                                                                                               | 4.                   | GROUT<br>7.0 S                 | SHALL CONFORM TO<br>SACKS OF PORTLAND (                                                 | ASTM C476 V<br>CEMENT PER C                                 | /ITH A MINI<br>SUBIC YARD                        | MUM CEM                                       |
|   | <ol> <li>SLABS ARE TO BE KEYED TO SUPPORTING WALLS.</li> <li>WHERE VERTICAL REINFORCING BARS ARE CALLED FOR IN WALLS, AT<br/>COLUMN LOCATIONS OR PIERS, SUCH BARS ARE TO BE DOWELED INTO<br/>FOOTINGS.</li> </ol>                                                                                                                  | 5.                   | PROVI<br>ZONT<br>A) 1          | de bond beams or f<br>al continuous reinf<br>The bottom and top<br>LESS than 24 inches  | REINFORCED G<br>ORCEMENT IN<br>OF WALL OPE<br>S NOR LESS T  | ROUTED UN<br>ALL MASON<br>NINGS AND<br>HAN 40 BA | ITS WITH<br>IRY WALLS<br>SHALL E<br>AR DIAMET |
|   | <ol> <li>POCKET WALLS WHERE NECESSARY FOR COLUMNS AND SLABS.</li> <li>PROVIDE MINIMUM OF 2 INCHES COVER AROUND COLUMN BASE PLATES.</li> </ol>                                                                                                                                                                                      |                      | B) :                           | OPENING<br>STRUCTURALLY CONNEC                                                          | CTED ROOF LE                                                | VELS AND                                         | AT THE TO                                     |
| F | 8. REINFORCING TO BE LAPPED 36 BAR DIAMETERS AT ALL CORNERS,                                                                                                                                                                                                                                                                       |                      | C) /                           | AT THE BOTTOM OF TH<br>WHEN DOWELED TO TH                                               | HE WALL OR IN<br>HE WALL.                                   | N THE TOP                                        | OF THE F                                      |
|   | 9. PROVIDE TWO (2) #5 BARS ON ALL SIDES AND DIAGONALLY AT CORNERS<br>OF OPENINGS THROUGH CONCRETE WALLS. BARS TO EXTEND 2'-0" BEYOND                                                                                                                                                                                               |                      | D) /                           | AT MAXIMUM SPACING<br>JOINT REINFORCEMENT                                               | OF 10 FEET U<br>IS PROVIDED.                                | JNLESS UNI                                       | FORMLY D                                      |
|   | EDGE OF OPENING.<br>10. UNLESS OTHERWISE NOTED, ALL FOUNDATION WALLS ARE TO BE REIN-<br>FORCED WITH TWO (2) #5 BARS CONTINUOUS TOP AND BOTTOM                                                                                                                                                                                      | 0.                   | ALL A                          | MASONRY WALLS AT:                                                                       | S ON CENTER                                                 | UNLESS O                                         | THERWISE                                      |
|   | 11. HORIZONTAL WALL CONSTRUCTION JOINTS WILL NOT BE PERMITTED,<br>EXCEPT WHERE SHOWN.                                                                                                                                                                                                                                              |                      | B) /                           | ALL SIDES AND EDGES<br>LESS THAN 24 INCHES<br>OPENING                                   | OF MASONRY<br>S NOR LESS T                                  | OPENINGS<br>HAN 40 BA                            | and sha<br>\r diameti                         |
| E | 12. ALL JOINTS IN STRUCTURAL SLABS SHALL BE MADE AT CENTER OF<br>SPAN WITH VERTICAL BULKHEADS AND HORIZONTAL KEYS, UNLESS<br>OTHERWISE SHOWN OR APPROVED.                                                                                                                                                                          | 7.                   | ALL M<br>WITH                  | ASONRY CELLS CONT<br>GROUT. GROUT SHAL<br>FRTICAL MASONRY RELI                          | TAINING REINFO<br>LL BE SAME TO<br>NFORCEMENT S             | RCING SHA<br>(PE AS MOI                          | LL BE FIL<br>RTAR.<br>XOWELED (               |
| _ | <ol> <li>AIR-ENTRAIN ALL EXPOSED CONCRETE.</li> <li>PADS ARE REQUIRED FOR ALL FLOOR STANDING EQUIPMENT. COORDINATE<br/>SIZE AND LOCATION OF EQUIPMENT PADS WITH MECHANICAL AND ELECT-</li> </ol>                                                                                                                                   | 9.                   | MINIM<br>WISE<br>REINF(        | IUM INTO SUPPORTING<br>NOTED.<br>DRCEMENT SHALL BE I                                    | FOUNDATION                                                  | WALL OR F                                        |                                               |
|   | 15. THE GENERAL CONTRACTOR SHALL COORDINATE ALL REQUIREMENTS,<br>INCLUDING DIMENSIONS AND LOCATIONS, OF ALL OPENINGS, EMBEDDED                                                                                                                                                                                                     | 10.                  | STAR<br>AT IN<br>SPLICE        | F, END AND SPLICES (<br>TERVALS NOT GREATEF<br>E REINFORCEMENT A M                      | OF EACH BAR.<br>R THAN 192 B<br>/INIMUM LAP C               | PROVIDE A<br>AR DIAMETE<br>0F 48 BAR             | DITIONAL<br>RS OR 1<br>DIAMETER               |
| D | 16. COVER FOR REINFORCING:                                                                                                                                                                                                                                                                                                         | 11.                  | INCHE<br>SINGLI<br>SIDE        | ES, WHICHEVER IS GRE<br>E WYTHE JOINT REINFO<br>RODS WITH 9 GAGE O                      | EATER.<br>DRCEMENT TO<br>DROSS TIES CO                      | BE TRUSS<br>INFORMING                            | TYPE, 3/ <sup>-</sup><br>TO ASTM              |
|   | A) CONCRETE PLACED ON EARTH 5<br>B) FORMED CONCRETE EXPOSED TO GROUND OR WEATHER:<br>1) #6 BARS OR LARGER 2"<br>2) #5 BARS OR SMALLER 1-1/2"                                                                                                                                                                                       | 12.                  | HORIZ<br>REINF<br>CONCF        | ZONTALLY WITH A MAXI<br>FORCEMENT TO BE GAL<br>RETE MASONRY UNITS                       | IMUM VERTICAL<br>LVANIZED.<br>SHALL BE OF                   | SPACING                                          | SHAPE IN                                      |
|   | C) FORMED CONCRETE NOT EXPOSED TO GROUND OR WEATHER: 3/4"                                                                                                                                                                                                                                                                          | - 13.                | PLAN<br>CELLS<br>DO NO         | S. TYPICAL 8 INCH TH<br>S AND SHALL HAVE A<br>DT USE ADMIXTURES C                       | IICK UNIT SHAL<br>NET/GROSS A<br>CONTAINING CH              | L BE 8X8><br>REA RATIO<br>LORIDES, N             | (16 MODU<br>OF 53%.                           |
| C |                                                                                                                                                                                                                                                                                                                                    | 14.                  | ALL H<br>MASO                  | ORIZONTAL BOND BEAN<br>NRY CONTROL JOINTS.                                              | M REINFORCEM                                                | ENT SHALL                                        | BE CONT                                       |
|   |                                                                                                                                                                                                                                                                                                                                    | 1.                   | CONTF<br>TIONS<br>RESP         | RACTOR SHALL VERIFY<br>AND ELEVATIONS NEC<br>ONSIBILITY FOR THEIR                       | ( IN THE FIELD<br>CESSARY FOR<br>ACCURACY.                  | ) ALL MEAS<br>HIS WORK                           | UREMENTS                                      |
| _ |                                                                                                                                                                                                                                                                                                                                    | L                    |                                |                                                                                         |                                                             |                                                  |                                               |
|   | SLAB ON GRADE                                                                                                                                                                                                                                                                                                                      |                      | CONTR<br>SAW (                 | Rol Joint<br>Cut Depth Sla                                                              | B_ON_GRAD                                                   | E                                                |                                               |
| В | FOR DEPTH & R<br>(IF ANY) SEE PL                                                                                                                                                                                                                                                                                                   |                      | SHALL<br>DEPTH                 | BE 1/4 FOR<br>OF SLAB (IF                                                               | ( DEPTH &<br>ANY) SEE F                                     |                                                  | AT 2<br>DOWI<br>GREA                          |
|   | x - x - x - x - x - x - x - x - x - x -                                                                                                                                                                                                                                                                                            | ×<br>~×<br>⋧£€&&&&&  | <br>B<br>BB_B_B_B_B_B_B_B_B_   |                                                                                         | × * * * *                                                   | 7<br>                                            |                                               |
|   |                                                                                                                                                                                                                                                                                                                                    | Contraction (Second  |                                |                                                                                         |                                                             |                                                  | ^                                             |
| А |                                                                                                                                                                                                                                                                                                                                    | <u>CAL (</u><br>CONC | <u>CC</u><br>>RF               | <u>NIKOL</u><br>=tf <u>s</u> i <i>l</i>                                                 | <u>JOIN</u><br>AR OM                                        |                                                  | <u>=   A</u><br>} <u>A</u> []                 |
|   |                                                                                                                                                                                                                                                                                                                                    |                      | ▰▯▯╚                           | <u> </u>                                                                                |                                                             |                                                  |                                               |
| l | 1 2 3                                                                                                                                                                                                                                                                                                                              | 4                    |                                | 5                                                                                       |                                                             |                                                  | 6                                             |





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| PIER SCHEDULE |           |                       |                         |  |  |  |  |  |  |  |  |
|---------------|-----------|-----------------------|-------------------------|--|--|--|--|--|--|--|--|
| DESIGNATION   | 917E      | REINFO                | DRCING                  |  |  |  |  |  |  |  |  |
| DESIGNATION   | SIZE      | VERTICAL              | HORIZONTAL              |  |  |  |  |  |  |  |  |
| P-1           | 16" X 16" | <b>4</b> – <b>#</b> 6 | <b>#</b> 3 @ 12"        |  |  |  |  |  |  |  |  |
| P-2           | 24" X 24" | 4-#7                  | <b>#</b> 3 @ 12"        |  |  |  |  |  |  |  |  |
| P-3           | 20" X 28" | 6 <b>-#</b> 7         | #3 @ 12"<br>#3 INT. TIE |  |  |  |  |  |  |  |  |

NOTES

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No. | REVISION/SUBMISSION

Mechanical/Electrical/Plumbing Engineer

DATE

## NOTES:

- 1. ALL VERTICAL PIER REINFORCING SHALL BE DOWELED INTO FOOTING.
- 2. ALL PIER SIZES INDICATED ARE MINIMUM EFFECTIVE PIER SIZES REQUIRED. FOR ACTUAL PIER SIZE REQUIRED SEE ARCHITECTURAL DRAWINGS.
- 3. SUFFIX "...W" INDICATES THAT PIER SHALL BE PLACED MONOLITHIC WITH FOUNDATION WALL.
- 4. ADDITIONAL FOUR TIES SPACED AT 3" O.C. SHALL BE ADDED AT TOP OF COLUMN PIER.

|   | FOOTING SCHEDULE |                       |                                    |  |  |  |
|---|------------------|-----------------------|------------------------------------|--|--|--|
| В | DESIGNATION      | SIZE – W X L X D      | REINFORCING<br>(EACH WAY - BOTTOM) |  |  |  |
|   | F-3.0            | 3'-0" X 3'-0" X 1'-4" | 3-#6                               |  |  |  |
|   | F-3.5            | 3'-6" X 3'-6" X 1'-4" | 3-#6                               |  |  |  |
|   | F-4.0            | 4'-0" X 4'-0" X 1'-4" | 4-#6                               |  |  |  |
| D | F-4.5            | 4'-6" X 4'-6" X 1'-4" | 5 <b>-</b> #6                      |  |  |  |
|   | F-5.0            | 5'-0" X 5'-0" X 1'-4" | 7-#6                               |  |  |  |
|   | F-5.5            | 5'-6" X 5'-6" X 1'-6" | 8-#6                               |  |  |  |
| F | F-6.0            | 6'-0" X 6'-0" X 1'-8" | 9 <b>-</b> #6                      |  |  |  |
|   | F-6.5            | 6'-6" X 6'-6" X 1'-8" | 8-#7                               |  |  |  |
|   | F-7.0            | 7'-0" X 7'-0" X 1'-9" | 9-#7                               |  |  |  |
|   | F-100            | 3'-0" X 5'-0" X 2'-0" | 3-#6 LONG & 5-#6 SHORT             |  |  |  |
|   | F-101            | 4'-0" X 4'-0" X 2'-0" | 4− <b>#</b> 6 EACH WAY             |  |  |  |



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12

- 1. (F1) INDICATES 6" CONCRETE SLAB REINFORCED WITH (2)-LAYERS OF 6X6-W2.9XW2.9 W.W.F. ON 12" MINIMUM LAYER OF COMPACTED STRUCTURAL FILL. SEE ARCHITECTURAL DRAWINGS FOR VAPOR RETARDER REQUIREMENTS.
- 2. (F2) INDICATES 8" CONCRETE SLAB REINFORCED WITH 6X6-W4.0XW4.0 W.W.F. TOP AND #4@12" O.C. E.W. BOTTOM ON 12" MINIMUM LAYER OF COMPACTED STRUCTURAL FILL.
- 3. B.F.E. INDICATES BOTTOM OF FOOTING ELEVATION. "B.F.E. . . \*" INDICATES BOTTOM OF FOOTING ELEVATION TO MATCH EXISTING ADJACENT FOOTING ELEVATION.
- 4. T.W.E. INDICATES TOP OF WALL ELEVATION. DROP TOP OF WALL ELEVATION TO 8" BELOW FINISH FLOOR ELEVATION AT ALL DOOR OPENINGS - U.O.N.
- 5. T.S.E. INDICATES TOP OF MASONRY SHELF ELEVATION.
- 6. C.J. INDICATES CONTROL JOINT IN CONCRETE SLAB SEE TYPICAL DETAIL ON DRAWING SOO1.
- 7. F.S. INDICATES FOOTING STEP SEE TYPICAL DETAIL ON DRAWING SOO1.
- 8. WHERE UTILITY LINES (i.e. SANITARY, WATER, ETC.) PENETRATE FOUNDATION WALL DROP BOTTOM OF FOOTING ELEVATION AS REQUIRED TO ALLOW UTILITY LINE TO PASS THRU FOUNDATION WALL. COORDINATE LOCATION AND ELEVATIONS WITH MECHANICAL AND SITE REQUIREMENTS.
- 9. DO NOT AIR-ENTRAIN INTERIOR SLABS ON GRADE.

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- 10. GENERAL CONTRACTOR SHALL COORDINATE EXACT REQUIREMENTS FOR SLAB DEPRESSIONS. SEE TYPICAL DETAIL ON THIS DRAWING AND ARCHITECTURAL DRAWINGS FOR ADDITIONAL INFORMATION.
- 11. \* INDICATES SUPPORT COLUMN SEE COLUMN SCHEDULE ON DRAWING S201.
- 12. REMOVE EXISTING CISTERN AND ALL DISTURBED SOILS LOCATED WITHIN THE BUILDING FOOTPRINT AND REPLACE WITH COMPACTED STRUCTURAL FILL-CONTRACTOR TO VERIFY EXTENTS IN FIELD. SEE GEOTECHINCAL REPORT FOR ADDTIONAL RECOMMENDATIONS AND REQUIREMENTS.

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| tructural Engineer SZEW CC                                                                                | CZAK ASSOCIATES<br>DNSULTING ENGINEERS<br>AVON PARK NORTH<br>200 FISHER DRIVE<br>AVON, CT 06001<br>TEL: 860.677.4570<br>Szewczakassociates.com |
|-----------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------|
| ARCHITECTUREPOUGHK                                                                                        | CUM<br>Cormack<br>NVOOrhislep<br>RCH STREET<br>EEPSIE, NEW YORK 12601<br>345-452-2268 FAX 845-452                                              |
| PROJECT<br>NEW FIRE STATION F<br>ROMBOUT FIRE DIST<br>NYS ROUTE 52, FISH<br>DRAWING<br>FOUNDATION<br>PLAN | FOR<br>TRICT - STATION 2<br>KILL, NY                                                                                                           |
| EAL DI<br>CH<br>DI<br>ILE                                                                                 | RAWN BY PROJECT NUMBER<br>JWK 18142<br>IECKED BY DATE<br>TSG 11/30/2022<br>RAWING NUMBER<br>S 1 0 1<br>P:\2000\JOB # - JOB NAME\               |
|                                                                                                           | I                                                                                                                                              |

|   | 1                                           | 2                     |                      | 3                      |                        | 4                |              | 5            |  |  |
|---|---------------------------------------------|-----------------------|----------------------|------------------------|------------------------|------------------|--------------|--------------|--|--|
| Г |                                             |                       |                      |                        |                        |                  |              |              |  |  |
|   | COLUMN SCHEDULE                             |                       |                      |                        |                        |                  |              |              |  |  |
| - | COLUMN NO                                   | A                     | (A1)                 | В                      | (B1)                   | С                | D            | E            |  |  |
|   |                                             |                       |                      |                        |                        |                  |              |              |  |  |
| < | TOP OF CMU<br>ROOF                          |                       |                      | 3,-0*                  | 3,-0"                  |                  |              |              |  |  |
| _ | ELEVATION 120'-0"                           |                       |                      |                        |                        |                  |              |              |  |  |
| J | TOP OF STEEL<br>LOW ROOF                    | °0                    | *o                   | )x10x3/8               | hx10x5/8               | ×10x3/8          | 2'-0"        | *0           |  |  |
|   | ELEVATION 112'-0"                           | x5x1/4                | x5x1/4               | HSS10                  | HSS10                  | HSS14            | x5x1/4       | x5x1/4       |  |  |
|   | TOP OF SLAB<br>FIRST FLOOR                  | HSS5                  | HSS5                 |                        |                        |                  | HSS5         | HSS5         |  |  |
|   | LLEVATION 100 <sup>°</sup> -0 <sup>°°</sup> | 6 3/4"                | 6 3/4"               | 6 3/4"                 | 6 3/4"                 | 6 3/4"           | 6 3/4"       | 6 3/4"       |  |  |
|   | CAP PLATE                                   | W.C.                  | W.C.                 | W.C.                   | W.C.                   | 11"x3/4"x16"     | W.C.         | W.C.         |  |  |
|   | BASE PLATE                                  | OFFSET<br>9"x3/4"x11" | OFFSET<br>9"x3/4"x9" | OFFSET<br>14"x3/4"x16" | OFFSET<br>14"x3/4"x16" | 14"x1-1/4"x22"   | 11"x3/4"x11" | 11"x3/4"x11" |  |  |
|   | ANCHOR RODS                                 | (4)-3/4*ø             | (4)-3/4*ø            | (4)-3/4*ø              | (4)-3/4*ø              | (6)-1 <b>*</b> ø | (4)-3/4*ø    | (4)-3/4*ø    |  |  |

## COLUMN SCHEDULE NOTES

- 1. AT EACH COLUMN PROVIDE A 1/4" THICK LEVELING PLATE (SAME SIZE AS BASE PLATE) ON MINIMUM OF 1" NON-SHRINK GROUT PAD AND (4)-3/4" ANCHOR RODS, UNLESS SHOWN OTHERWISE.
- 2. ALL DIMENSIONS SHOWN ARE GIVEN TO TOP OF CAP PLATES AND TO BOTTOM OF BASE PLATES.

ANCHOR ROD SCHEDULE

REMARKS

SEE NOTE #5

LINTEL SCHEDULE

LINTEL SIZE

L 3 1/2"X3 1/2"X 5/16"

L 4"X3 1/2"X5/16"

L 5"X3 1/2"X5/16"

L 6"X3 1/2"X3/8"

L 7"X4"X3/8"

W8X15

W8X24

- 3. W.C. INDICATES 1/4" THICK WEATHER CAP.
- 4. WELD ALL BASE PLATE COLUMNS TO BASE PLATES WITH CONTINUOUS FULL PROFILE 1/4" FILLET WELD.
- 5. R.L. INDICATES RAIN LEADERS.
- 6. SEE ANCHOR ROD SCHEDULE ON THIS DRAWING.

L<sub>e</sub> |PLATE WASHER|

1/4" x2 1/2"

3/8" x 3"

DI

NOTES: 1. ALL ANCHOR RODS SHALL BE ASTM F1554 GRADE 36 WITH WELDABILITY SUPPLEMENT "S1"

MARK

L\*

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L\*

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L\*

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L\*

NOTES:

DIAMETER

3/4**"**ø

1**"**ø

UNLESS OTHERWISE NOTED. 2. PROVIDE PLATE WASHERS AND NUTS FOR ALL RODS.

1'-0"

1'-4"

- 3. ALL RODS SHALL BE FREE OF SCALE, DIRT OR OIL.
- 4. PROVIDE MINIMUM 4" THREAD LENGTH. 5. PLATE WASHER SHALL BE WELDED IN PLACE
- TO COLUMN BASE PLATES AT ALL BRACE FRAME LOCATIONS.

MASONRY OPENING

2'-6'' < L < 4'-6''

4'-6'' < L < 5'-6''

5'-6" < L < 6'-6"

6'-6'' < L < 7'-6''

7'-6'' < L < 8'-6''

8'-6'' < L < 10'-0''

10'-0" < L < 14'-0"

TOP OF CONCRETE PROJECTION AS REQUIRED └─ PLATE WASHER (SQUARE) EMBEDDED - HEAVY HEX NUT (TACK WELD)

REMARKS

+ 5/16"x\*\*" CONT. PLATE

+ 5/16"x\*\*" CONT. PLATE

BEARING PLATE SCHEDULE BEARING PLATE MARK BP-1 BP-2 BP-3 NOTES: 1. PROVIDE BEARING PLATE AT MASONRY AND/OR CONCRETE PLATES SHALL BE "BP-1" UN 2. PROVIDE POCKETS AS REQUIR ON WALLS. FILL ALL BEAM F ADJACENT CONSTRUCTION AFT 3. PROVIDE (2)-1/2<sup>\*</sup>Ø ANCHOR PLATE BEÀRING ON MASONRY BOLTS AT EACH BEARING PLA 4. PROVIDE MINIMUM OF 1" NON BEARING PLATES.

5

GROUT SOLID MINIMUM OF TW DIRECTLY BELOW BEAM BEARIN

| 1. | FOR EACH FOUR (4   | ") INCHES OF | MASONRY | FURNISH  | ONE | LINTEL | ANGLE | AS | INDICATED. |
|----|--------------------|--------------|---------|----------|-----|--------|-------|----|------------|
| 2. | ALL SPANS INDICATE | ED ARE CLEAR | MASONRY | OPENING. |     |        |       |    |            |

3. PROVIDE MIN. OF EIGHT (8") INCHES OF BEARING AT ALL LINTELS

1 2 - 3 4 #4@12" O.C. TOP WITH

#3@12" O.C. TEMP.

MEZZANINE LEVEL ELEV. 110'-0\*"

(+10'-0" A.F.F.)



| 4"x1/2"x10"                                                 |                                                          |
|-------------------------------------------------------------|----------------------------------------------------------|
| 6"x1/2"x13"                                                 |                                                          |
| 9"x1/2"x9"                                                  |                                                          |
|                                                             |                                                          |
| TE AT ALL BEAMS IN<br>NCRETE WALLS. ALL<br>-1" UNLESS OTHEN | BEARING ON<br>. BEARING<br>RWISE NOTED.                  |
| REQUIRED FOR ALL<br>EAM POCKETS SOL<br>ON AFTER BEAM IS     | BEAMS BEARING<br>ID TO MATCH<br>IN PLACE.                |
| NCHOR BOLTS AT E<br>SONRY AND (4)-3<br>NG PLATE BEARING     | EACH BEARING<br>/4 <sup>*</sup> Ø ANCHOR<br>ON CONCRETE. |
| 1" NON-SHRINK G                                             | ROUT UNDER ALL                                           |
| OF TWO (2) COUP<br>BEARING ON MAS                           | RSES, 24" WIDE<br>ONRY WALLS.                            |

REMARKS

SIZE

6

7

- 8

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| CONCRETE SLAB SCHEDULE                                                                                                                |                                                                                                                                                                                                                       |                                 |           |                                                  |           |          |         |  |
|---------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------|-----------|--------------------------------------------------|-----------|----------|---------|--|
| SLAB MARK                                                                                                                             | CONC. TOPPING                                                                                                                                                                                                         | METAL DECK                      | LIVE LOAD | REINFORCING                                      | CONCRETE  |          |         |  |
|                                                                                                                                       | T1 (INCHES)                                                                                                                                                                                                           | T2 (INCHES)                     | (PSF)     |                                                  | WT (PCF)  | Fc (PSI) | REMARKS |  |
| S–1                                                                                                                                   | 2 1/2"                                                                                                                                                                                                                | 1 1/2"                          | 125       | 6X6-W2.9XW2.9 W.W.F.                             | 145       | 3000     |         |  |
|                                                                                                                                       |                                                                                                                                                                                                                       |                                 |           |                                                  |           |          |         |  |
| <u>NOTES:</u>                                                                                                                         |                                                                                                                                                                                                                       |                                 |           |                                                  |           |          |         |  |
|                                                                                                                                       | 1. ALL WELDE<br>AT ALL ST                                                                                                                                                                                             | ED WIRE FABRIC<br>RUCTURAL FRAI | AND STEEL | REINFORCING SHALL BE S<br>RS ON CONTINUOUS CHAIR | SUPPORTEI | )<br>'S. |         |  |
|                                                                                                                                       | <ol> <li>PROVIDE #4 @ 12" O.C. TOP HOOKED BARS AT ALL FORMED SLAB EDGES<br/>WITH #3 @ 12" O.C. CONTINUOUS TEMP. REINFORCING. – TYPICAL U.O.N.</li> </ol>                                                              |                                 |           |                                                  |           |          |         |  |
| 3. PROVIDE #4 X 6'-0" @ 12" O.C. TOP ACROSS ALL GIRDERS WITH #3 @ 12" O.C.<br>TEMPERATURE REINFORCING TYPICAL UNLESS OTHERWISE NOTED. |                                                                                                                                                                                                                       |                                 |           |                                                  |           |          |         |  |
|                                                                                                                                       | 4. METAL FLOOR FORM SHALL BE COMPOSITE, GALVANIZED, FLOOR DECK, GAGE AS<br>REQUIRED FOR LOADING (20 GA. — MIN). SEE GENERAL NOTES AND SPECIFICATIONS<br>FOR ADDITIONAL REQUIREMENTS.TYPICAL — UNLESS OTHERWISE NOTED. |                                 |           |                                                  |           |          |         |  |

# NOTES:

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|                                                                                                                                                                                                                                                                                               | NOTES                                                                                                                            |   |
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|                                                                                                                                                                                                                                                                                               |                                                                                                                                  |   |
|                                                                                                                                                                                                                                                                                               |                                                                                                                                  |   |
|                                                                                                                                                                                                                                                                                               |                                                                                                                                  |   |
|                                                                                                                                                                                                                                                                                               |                                                                                                                                  |   |
|                                                                                                                                                                                                                                                                                               |                                                                                                                                  | ĸ |
|                                                                                                                                                                                                                                                                                               |                                                                                                                                  |   |
|                                                                                                                                                                                                                                                                                               |                                                                                                                                  |   |
|                                                                                                                                                                                                                                                                                               |                                                                                                                                  |   |
|                                                                                                                                                                                                                                                                                               |                                                                                                                                  | J |
|                                                                                                                                                                                                                                                                                               |                                                                                                                                  |   |
|                                                                                                                                                                                                                                                                                               |                                                                                                                                  |   |
| NOTES:<br>1. TOP OF STEEL SHALL BE AT ELEVATION 112'-0" (+12'-0" A.F.F.)<br>UNLESS NOTED (+ ) OR (- ) INDICATING DISTANCE ABOVE OR                                                                                                                                                            |                                                                                                                                  |   |
| 2. ROOF SHEATHING SHALL BE F.R.T. EXTERIOR GRADE PLYWOOD                                                                                                                                                                                                                                      |                                                                                                                                  |   |
| WITH INTERMEDIATE CLIPS AND THICKNESS AS FOLLOWS:<br>A) SLOPES GREATER THAN 3 ON 12 - 5/8" PLYWOOD<br>B) SLOPES LESS THAN 3 ON 12 - 3/4" PLYWOOD                                                                                                                                              |                                                                                                                                  |   |
| 3. "RT-+" INDICATES NEW MANUFACTURED COLD FORMED STEEL TRUSS<br>SPACED NO GREATER THAN 24" O.C TRUSS ERECTOR SHALL                                                                                                                                                                            |                                                                                                                                  |   |
| PROVIDE TEMPORARY AND PERMANENT BRACING OF TRUSSES AS REQUIRED UNTIL PERMANENT ROOFING SYSTEM IS COMPLETE.                                                                                                                                                                                    |                                                                                                                                  |   |
| 4. PROVIDE HURRICANE ANCHORS AT ALL TRUSS AND RAFTER SUPPORTS<br>PER TRUSS SUPPLIER REQUIREMENTS                                                                                                                                                                                              |                                                                                                                                  | Н |
| 5. COORDINATE ALL MECHANICAL EQUIPMENT (DUCTS, CHIMNEY, LOUVERS,<br>HATCH OPENINGS, ETC.) PENETRATIONS WITH ROOF FRAMING. PROVIDE<br>MULTIPLE MEMBER FRAMING AT ALL FRAMING SPACING REQUIREMENTS<br>GREATER THAN 48" O.C. ON ALL SIDES OF OPENINGS. ALSO SEE<br>NOTE #7.                      |                                                                                                                                  |   |
| 6. PROVIDE LADDER FRAMING AT 24" O.C. AT TOP AND BOTTOM CHORDS<br>OF ALL TRUSSES WHERE SPACING EXCEEDS 24" O.C. WITH 600S162-43<br>RAFTERS. ALL FRAMING SHALL HAVE JOIST HANGERS EACH END.                                                                                                    |                                                                                                                                  |   |
| <ol> <li>*VT- * INDICATES VALLEY TRUSS SET TO BE TRUSS MANUFACTURERS<br/>STANDARD VALLEY TRUSS WITH CONTINUOUS TOP AND BOTTOM CHORDS.<br/>COORDINATE CONFIGURATION WITH ARCHITECTURAL AND MECHANICAL<br/>REQUIREMENTS - TYPICAL.</li> </ol>                                                   |                                                                                                                                  | G |
| 8. PROVIDE MULTIPLE TRUSSES AND REDUCED TRUSS SPACING AS<br>REQUIRED AT ALL MECHANICAL EQUIPMENT, FOLDING PARTITIONS,<br>SHEDDING SNOW LOCATIONS AND CEILING/ROOF TRANSITIONS.                                                                                                                |                                                                                                                                  |   |
| 9. PROVIDE ADDITIONAL TRUSSES AS REQUIRED AT ALL ATTIC PARTITIONS –<br>SEE ARCHITECTURAL DRAWINGS FOR LOCATIONS AND ADDITIONAL<br>REQUIREMENTS.                                                                                                                                               |                                                                                                                                  |   |
| 10. PROVIDE JOIST HANGERS AT ALL RAFTERS AND ROOF TRUSSES<br>FRAMED INTO SUPPORTING MEMBER.                                                                                                                                                                                                   |                                                                                                                                  | F |
| 11. PROVIDE 600S162-43 @ 24" O.C. OUTLOOKERS AT ALL RAKE ENDS<br>TYPICAL UNLESS OTHERWISE NOTED.                                                                                                                                                                                              |                                                                                                                                  |   |
| 12. PROVIDE ADDITIONAL 600S162-43 @ 24" O.C. INFILL ROOF FRAMING<br>IN THE PLANE OF THE TRUSS ROOF AT ALL STEP-DOWN ROOF TRUSSES<br>TYPICAL UNLESS OTHERWISE NOTED.                                                                                                                           | No.         REVISION/SUBMISSION         DATE           Mechanical/Electrical/Plumbing Engineer         Engineer         Engineer | ╞ |
| 13. COLD FORMED METAL TRUSS AND ROOF RAFTER FRAMING SHALL BE OF<br>PROFILES AND CONFIGURATIONS TO PROVIDE CONTINUOUS ROOF PROFILE<br>AS INDICATED ON ARCHITECTURAL DRAWINGS. COORDINATE INSTALLATION<br>OF COLD FORMED METAL TRUSS AND ROOF RAFTER FRAMING WITH<br>SUPPORT MEMBERS INDICATED. |                                                                                                                                  | E |
| 14. ROOF FRAMING NOT OTHERWISE SHOWN OR INDICATED SHALL BE<br>1200S200-68 @ 24" O.C. WITH 800S200-43 @ 24" O.C. CEILING JOISTS.                                                                                                                                                               |                                                                                                                                  |   |
| 15. $(*)$ INDICATES SUPPORT COLUMN – SEE COLUMN SCHEDULE ON DRAWING S201.                                                                                                                                                                                                                     | Structural Engineer                                                                                                              | + |
| 16. "BF-+" INDICATES STEEL BRACE FRAME LOCATION - FOR ADDITIONAL DETAILS<br>AND REQUIREMENTS SEE DRAWING S301.                                                                                                                                                                                | SZEWCZAK ASSOCIATES<br>Consulting Engineers                                                                                      |   |
| 17. "SW-*" INDICATES MASONRY SHEAR WALL LOCATION - FOR ADDITIONAL DETAILS AND REQUIREMENTS SEE DRAWING \$301.                                                                                                                                                                                 | 200 FISHER DRIVE<br>AVON, CT 06001                                                                                               | D |
| 18. ROOF TRUSS WEB CONFIGURATION TO BE CLEAR OF CATWALK/MECHANICAL<br>ACCESS AREAS-CONTRACTOR TO COORD. ADD'L REQUIREMENTS WITH<br>ARCHITECTURAL AND MECHANICAL DRAWINGS.                                                                                                                     | TEL: 860.677.4570<br>szewczakassociates.com                                                                                      |   |
| 19. D INDICATES $1-1/2$ " DEEP, 22 GAGE, WIDE RIB (TYPE "B"), GALVANIZED METAL ROOF DECK.                                                                                                                                                                                                     | Liscum                                                                                                                           |   |
| 20. "RTG" INDICATES CFS ROOF TRUSS GIRDER - FOR ADDITIONAL DETAILS AND REQUIREMENTS SEE DRAWING S301.                                                                                                                                                                                         | McCormack                                                                                                                        | С |
| 21. "BP-*" INDICATES STEEL BEARING PLATE - FOR REQUIREMENTS SEE SCHEDULE<br>ON DRAWING S201. PROVIDE BEARING PLATES AT ALL BEAMS BEARING ON<br>MASONRY WALLS TYPICAL                                                                                                                          |                                                                                                                                  |   |
| 22. CONTRACTOR TO COORDINATE INSTALLATION OF PRE-FABRICATED AWNING<br>STRUCTURES (BY OTHERS).                                                                                                                                                                                                 | PLANNING INTERIORS PHONE 845-452-2268 FAX 845-452-3752<br>PROJECT                                                                |   |
| <u>-</u> /·                                                                                                                                                                                                                                                                                   | NEW FIRE STATION FOR<br>ROMBOUT FIRE DISTRICT - STATION 2<br>NYS ROUTE 52, FISHKILL, NY                                          | _ |
|                                                                                                                                                                                                                                                                                               | DRAWING<br>ROOF<br>FRAMING PLAN                                                                                                  | B |
|                                                                                                                                                                                                                                                                                               | SEAL DRAWN BY PROJECT NUMBER                                                                                                     |   |
|                                                                                                                                                                                                                                                                                               | JVVN         18142           CHECKED BY         DATE           TSG         11/30/2022                                            |   |
|                                                                                                                                                                                                                                                                                               |                                                                                                                                  | A |
|                                                                                                                                                                                                                                                                                               | S202                                                                                                                             |   |

P:\2000\JOB # - JOB NAME\

| <b></b> | 1 2 3                                                                                                                                                                                                                                                                            | 4 | <br>5 |     | 6   |
|---------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---|-------|-----|-----|
|         |                                                                                                                                                                                                                                                                                  |   |       |     |     |
| L       | <u>COLD-FORMED STEEL TRUSS NOTES:</u><br>1. BASIC ROOF SNOW = 40 PSF. SNOW LOAD DISTRIBUTION AND COEFFICIENTS<br>TO BE DETERMINED USING THE BUILDING CODE OF STATE OF NEW YORK                                                                                                   |   |       |     |     |
|         | 2. TRUSS BRACING IS REQUIRED AS OUTLINED IN STRUCTURAL GENERAL NOTES<br>AND AS INDICATED AND REQUIRED IN NOTE #6.                                                                                                                                                                |   |       |     |     |
|         | 3. ROOF TRUSSES ARE TO BE DESIGNED FOR ANY REACTIONS RESULTING FROM<br>ADDITIONAL MEMBERS SUPPORTED BY ROOF TRUSSES.                                                                                                                                                             |   |       |     |     |
|         | 4. BOTTOM CHORD TO BE DESIGNED FOR A MINIMUM LOADING OF 10 PSF.<br>5. ALL TRUSS DESIGNS SHALL BE PREPARED BY A PROFESSIONAL ENGINEER<br>LICENSED TO BRACTICE IN THE STATE OF NEW YORK ALL SUBMISSIONS                                                                            |   |       |     |     |
| K       | 6. ALL TRUSS SUBMITTALS SHALL INCLUDE THE FOLLOWING:                                                                                                                                                                                                                             |   |       |     |     |
|         | A. ALL TRUSS LOCATIONS, SPACING, BEARING DETAILS, MEMBER SIZES,<br>PITCH, SPANS AND DIMENSIONS.<br>B. SIZE, GAGE AND YIELD STRESS OF LIGHT GAGE METAL MEMBERS.                                                                                                                   |   |       | *   |     |
|         | C. LOADING CONDITIONS<br>D. NOMINAL SIZES AND LOCATIONS OF CONNECTOR PLATES AT ALL JOINTS.<br>E. ACTUAL AXIAL LOADS IN EACH MEMBER.<br>F. CAMBER REQUIREMENTS                                                                                                                    |   |       |     | v   |
|         | G. ATTACHMENT REQUIREMENTS (SIZE, NUMBER AND SPACING OF WELDS<br>AND/OR SCREWS)<br>H. LOCATION OF PERMANENT LATERAL BRACING.                                                                                                                                                     |   |       |     |     |
| J       | J. MANUFACTURER'S DATA OR FABRICATOR'S SHOP DRAWING FOR METAL TRUSS<br>HANGERS, CLIPS AND ANCHORS AND THEIR LOCATIONS.                                                                                                                                                           |   |       |     |     |
|         | 7. TRUSS SUPPLIER SHALL SUBMIT DETAILED TRUSS LAYOUT DRAWINGS SHOWING ALL<br>TRUSS LOCATIONS AND DETAILED BEARING CONDITIONS FOR ALL TRUSS END<br>CONDTIONS INCLUDING ALL STIFFENER AND END RESTRAINT REQUIREMENTS, INCLUDING.<br>FIELD INSTALLED HANGERS AND HURRICANE ANCHORS. |   | TYPI  | CAL | END |
|         | 8. PROVIDE PIGGY-BACK TRUSSES AS REQUIRED.                                                                                                                                                                                                                                       |   |       |     |     |
| I       | 10. TRUSS SUPPLIER SHALL PROVIDE ALL REQUIRED HANGERS, ANCHORS, AND<br>CLIPS RATED FOR ANTICIPATED TRUSS OR BEAM END REACTIONS, FRAMING                                                                                                                                          |   |       |     |     |
|         | INTO AND/OR SUPPORTED BY ALL TRUSSES. HURRICANE RESTRAINT ANCHORS<br>SHALL BE SUPPLIED AT ALL SUPPORT AND BEARING LOCATIONS OF ALL<br>ROOF TRUSSES.                                                                                                                              |   |       |     |     |
| _       | 11. TRUSSES SHALL BE DESIGNED FOR BOTTOM CHORD LIVE LOAD OF 125 PSF IN<br>MECHANICAL PLATFORM AREAS — SEE ARCH'L AND MECH'L DRAWINGS FOR EXTENTS.                                                                                                                                |   |       |     | 1   |
|         |                                                                                                                                                                                                                                                                                  |   |       |     |     |
| н       |                                                                                                                                                                                                                                                                                  |   |       |     |     |
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<u>"HSS5x5" OFFSET COLUMN BASE</u>

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<u>"HSS14x10" COLUMN BASE</u>

"HSS10x10" COLUMN BASE












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| ·                                                                             | '                                                                             | NOTES LEGEND                                                                                                                                      |
| FOAMULAR® 604 RIBBED 1.5"<br>R-7.5 RIGID INSULATION                           | FOAMULAR® 604 RIBBED 1.5"<br>R-7.5 RIGID INSULATION<br>NEW 18 GA 6"           | NEW WALL AND DOOR                                                                                                                                 |
| GALVANIZED MTL<br>STUDS @ 16" O.C.<br>FLUID APPLIED AIR &<br>MOISTURE BARRIER | GALVANIZED MIL<br>STUDS @ 16" O.C.<br>FLUID APPLIED AIR &<br>MOISTURE BARRIER | P1 PARTITION TYPE                                                                                                                                 |
| RANDOM CUT AND<br>TUMBLED SQUARE &<br>RECTANGULAR GRANITE                     | 6" HORIZONTAL JAMES                                                           | 001 DOOR TAG                                                                                                                                      |
| 5/8" DENSGLASS SHEATHING<br>R21 BATT INSULATION<br>5/8" TYPE 'X' GWB          | 7"x7-5/8" CAST<br>STONE BAND<br>R21 SPRAY FOAM<br>INSULATION                  | STOREFRONT (SW)<br>AND WINDOW (W) TAG,<br>SEE SCHEDULE                                                                                            |
| TYP EXTERIOR WALL 'B'                                                         | 5/8" TYPE 'X' GWB                                                             | (w1)                                                                                                                                              |
|                                                                               |                                                                               | KEY NOTES                                                                                                                                         |
|                                                                               |                                                                               | CONTRACTOR TO PROVIDE & INSTALL     NEW FIRE EXTINGUISHER AND CABINET.                                                                            |
|                                                                               |                                                                               | APPROPRIATE WALL TYPE. SEE PLAN<br>SYMBOL (FE) & DET. 1 & 2/A600                                                                                  |
| <u>/</u>                                                                      |                                                                               | 2 'GEAR GRID' WALL MOUNTED LOCKERS                                                                                                                |
| <u>'-8"</u>                                                                   |                                                                               | 20" W x 20" D x 74 $\frac{1}{2}$ " H<br>(2) SHELVES AND (3) HOOKS PER LOCKER<br>20 GA NAME PLATE STEEL HORIZONTAL                                 |
|                                                                               |                                                                               | HANGING ROD, $\frac{1}{4}$ " STAINLESS STEEL<br>HANGER, RED POWDER COAT FINISH                                                                    |
| <u>-</u>                                                                      |                                                                               |                                                                                                                                                   |
| - 4 °                                                                         |                                                                               |                                                                                                                                                   |
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| 12,                                                                           |                                                                               |                                                                                                                                                   |
|                                                                               |                                                                               | GENERAL NOTES                                                                                                                                     |
|                                                                               |                                                                               | 1. CONTRACTOR TO PROVIDE AND INSTALL FLOOR                                                                                                        |
| ECTRICAL<br>ROOM<br>117                                                       |                                                                               | FIXTURES.<br>2. CONTRACTOR TO PAINT ALL EXPOSED GYPSUM<br>BOARD, SHAFTWALL, AND METAL FRAMES                                                      |
| 200 SF                                                                        |                                                                               | VERIFY IN FIELD.<br>3. CONTRACTOR TO PROVIDE ELECTRICAL<br>CONNECTIONS AS REQUIRED. SEE ELECTRICAL                                                |
|                                                                               |                                                                               | DRAWINGS.<br>4. PROVIDE AND INSTALL ALL DUCTWORK AND<br>GRILLES INTO ROOMS. SEE MEP DRAWINGS                                                      |
| RAGE<br>16<br>· SF                                                            |                                                                               | <ol> <li>PROVIDE AND INSTALL ALL ELECTRICAL WORK<br/>PER NEC. SEE ELECTRICAL DRAWINGS.</li> <li>ALL FURNITURE TO BE PROVIDED BY OWNER.</li> </ol> |
|                                                                               |                                                                               |                                                                                                                                                   |
| 50 <sup>,</sup> -8"                                                           |                                                                               |                                                                                                                                                   |
| 21                                                                            |                                                                               | No.     REVISION/SUBMISSION     DATE       Mechanical/Electrical/Plumbing Engineer                                                                |
| A11<br>ANICAL A301                                                            |                                                                               | GERARD                                                                                                                                            |
| SF                                                                            |                                                                               | CONSULTING ENGINEERS, D.P.C.                                                                                                                      |
| Р                                                                             |                                                                               | TEL: (845) 291 1272<br>www.GerardAssociates.com info@GerardAssociates.com                                                                         |
|                                                                               |                                                                               | GA21063<br>Structural Engineer                                                                                                                    |
| PICK-UP                                                                       |                                                                               | SZEWCZAK ASSOCIATES                                                                                                                               |
|                                                                               |                                                                               | CONSULTING ENGINEERS<br>200 Fisher Drive Avon, Connecticut                                                                                        |
|                                                                               |                                                                               | phone 860.677.4570 fax 860.676.0814                                                                                                               |
|                                                                               |                                                                               | Liscum                                                                                                                                            |
| 6<br>, 6<br>, 4                                                               |                                                                               | McCormack                                                                                                                                         |
|                                                                               |                                                                               | VanVoorhis LLP                                                                                                                                    |
|                                                                               |                                                                               | ARCHITECTURE POUGHKEEPSIE, NEW YORK 12601<br>PLANNING INTERIORS PHONE 845-452-2268 FAX 845-452-3752<br>PROJECT                                    |
| -8"                                                                           |                                                                               | NEW FIRE STATION FOR<br>ROMBOUT FIRE DISTRICT - STATION 2                                                                                         |
|                                                                               |                                                                               | NYS ROUTE 52, FISHKILL, NY<br>DRAWING                                                                                                             |
|                                                                               |                                                                               | PROPOSED FIRST FLOOR PLAN                                                                                                                         |
|                                                                               |                                                                               | SEAL DRAWN BY PROJECT NUMBER LR/KS 18142                                                                                                          |
|                                                                               | $\langle   \rangle$                                                           | CHECKED BY DATE<br>RV 11/30/2022<br>DRAWING NUMBER                                                                                                |
|                                                                               |                                                                               |                                                                                                                                                   |
|                                                                               |                                                                               |                                                                                                                                                   |
| 13 14                                                                         | 15                                                                            | FILE P:\2000\JOB # - JOB NAME                                                                                                                     |







| 13     | 14          | 15 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                   |
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|        |             |    | NOTES<br>LEGEND                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                   |
|        |             |    | GYP BOARD                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                   |
|        |             |    | 2X2 LED RECESSED LIGHT     FIXTURE     LED PENDANT LIGHT FIXTURE     EXIT SIGN                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | K                 |
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|        |             |    | RCP KEY NOTES<br>\$\stackstyle{R1} 5/8" type 'x' gwb ceiling - paint as per<br>Finish schedule                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | -                 |
|        |             |    | R2 PROVIDE ACT AND GRID.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                   |
|        |             |    | OPEN TO STRUCTURE ABOVE.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                   |
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|        |             |    | Image: Second system     Image: Second system       Image: Second system     Ima | -    <br>-  <br>- |
|        | A11<br>A301 |    | GERARD<br>ASSOCIATES<br>CONSULTING ENGINEERS, D.P.C.<br>223 MAIN STREET, GOSHEN NY 10924<br>TEL: (845) 291 1272<br>www.GerardAssociates.com<br>GA21063                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                   |
|        |             |    | SZEWCZAK ASSOCIATES<br>CONSULTING ENGINEERS<br>200 Fisher Drive Avon, Connecticut<br>phone 860.677.4570 fax 860.676.0814                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                   |
|        | G1<br>A300  |    | ARCHITECTURE<br>PLANNING INTERIORS<br>LIP<br>LISCUM<br>MCCOrmack<br>MacCormack<br>VanVoorhis LLP<br>181 CHURCH STREET<br>POUGHKEEPSIE, NEW YORK 12601<br>PHONE 845-452-2268 FAX 845-452-3752                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                   |
|        |             |    | PROJECT<br>NEW FIRE STATION FOR<br>ROMBOUT FIRE DISTRICT - STATION 2<br>NYS ROUTE 52, FISHKILL, NY<br>DRAWING<br>MEZZANINE<br>REFLECTED CEILING PLAN                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                   |
|        | ^           |    | SEAL DRAWN BY PROJECT NUMBER<br>LR/KS 18142<br>CHECKED BY DATE<br>RV 11/30/2022<br>DRAWING NUMBER                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                   |
|        |             |    | FILE P:\2000\JOB # - JOB NAME\                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                   |
| <br>13 | 14          | 15 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | T                 |



# 3 60 MIL SINGLE PLY ADHEARED EPDM ROOFING. APPLY OVER A PROTECTION BOARD AS REQUIRED BY MANUF. provide step flashing where all vertical serfaces are in contact with the roof. (Blind flashing where req'd) 6 6 ALUMINUM OGEE GUTTER & DOWNSPOUT W/ CONDUCTOR HEAD COLOR - DK BRONZE No. REVISION/SUBMISSION DATE GERARD ASSOCIATES CONSULTING ENGINEERS, D.P.C. 223 MAIN STREET, GOSHEN NY 10924 TEL: (845) 291 1272 www.GerardAssociates.com info@GerardAssociates.com SZEWCZAK ASSOCIATES Consulting Engineers 200 Fisher Drive Avon, Connecticut phone 860.677.4570 fax 860.676.0814 Liscum McCormack ARCHITECTURE 181 CHURCH STREET POUGHKEEPSIE, NEW YORK 12601 PLANNING INTERIORS PHONE 845-452-2268 FAX 845-452-3752 NEW FIRE STATION FOR **ROMBOUT FIRE DISTRICT - STATION 2** NYS ROUTE 52, FISHKILL, NY PROPOSED ROOF PLAN DRAWN BY PROJECT NUMBER LR/KS 18142 CHECKED BY DATE 11/30/2022 RV DRAWING NUMBER A104 P:\2000\JOB # - JOB NAME

![](_page_41_Figure_0.jpeg)

| NEW WALL AND DOOR                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                  |
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| PI PARITION TYPE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                  |
| 001 DOOR TAG                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                  |
| STOREFRONT (SW)<br>AND WINDOW (W) TAG                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                  |
| SEE SCHEDULE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | ĸ                |
| W1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                  |
| KEY NOTES                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                  |
| CONTRACTOR TO PROVIDE & INSTALL                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                  |
| 1 NEW FIRE EXTINGUISHER AND CABINET.<br>USE A CABINET THAT FITS THE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                  |
| SYMBOL [FE] & DET. 1 & 2/A600                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | J                |
| 2 'GEAR GRID' WALL MOUNTED LOCKERS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                  |
| $\begin{bmatrix} 2 \\ 888 \end{bmatrix} 643 - 6694 - GEARGRID.COM$<br>20" W × 20" D × 74 $\frac{1}{2}$ " H                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                  |
| (2) SHELVES AND (3) HOOKS PER LOCKER<br>20 GA. NAME PLATE, STEEL HORIZONTAL                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | -                |
| HANGING ROD, ‡" STAINLESS STEEL<br>HANGER, RED POWDER COAT FINISH                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                  |
| SFE DET 3/A504                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                  |
| <u></u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                  |
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| 1 CONTRACTOR TO PROVIDE AND INSTALL FLOOD                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | <b> </b> -       |
| MOUNTED TOILET AND WALL MOUNTED SINK<br>FIXTURES.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                  |
| 2. CONTRACTOR TO PAINT ALL EXPOSED GYPSUM<br>BOARD, SHAFTWALL, AND METAL FRAMES                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | G                |
| 3. CONTRACTOR TO PROVIDE ELECTRICAL<br>CONNECTIONS AS REQUIRED SEE ELECTRICAL                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                  |
| DRAWINGS.<br>4. PROVIDE AND INSTALL ALL DUCTWORK AND                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                  |
| GRILLES INTO ROOMS. SEE MEP DRAWINGS<br>5. PROVIDE AND INSTALL ALL ELECTRICAL WORK                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                  |
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|   |    |          |    | ASSOCIATES                                                          |     |
|   |    |          |    | CONSULTING ENGINEERS, D.P.C.                                        | E   |
|   |    |          |    | 223 MAIN STREET, GOSHEN NY 10924<br>TEL: (845) 291 1272             |     |
|   |    |          |    | GA21063                                                             |     |
|   |    |          |    | Structural Engineer                                                 |     |
|   |    |          |    | SZEWCZAK ASSOCIATES                                                 |     |
|   |    |          |    | Consulting Engineers                                                | D   |
|   |    |          |    | 200 Fisher DriveAvon, Connecticutphone 860.677.4570fax 860.676.0814 |     |
|   |    |          |    |                                                                     |     |
|   |    |          |    | Liscum                                                              |     |
|   |    |          |    | McCormack                                                           |     |
|   |    |          |    | VanVoorbig                                                          | C   |
|   |    |          |    | APCHITECTURE 181 CHURCH STREET                                      |     |
|   |    |          |    | PLANNING INTERIORS PHONE 845-452-2268 FAX 845-452-3752              |     |
|   |    |          |    | PROJECT<br>NEW FIRE STATION FOR                                     |     |
|   |    |          |    | ROMBOUT FIRE DISTRICT - STATION 2<br>NYS ROUTE 52, FISHKILL, NY     |     |
|   |    |          |    | DRAWING                                                             | ∥в  |
|   |    |          |    | INTERIOR ELEVATIONS                                                 |     |
|   |    |          |    | SEAL DRAWN BY PROJECT NUMBER                                        |     |
|   |    |          |    | LR/KS         18142           CHECKED BY         DATE               |     |
|   |    |          |    | RV         11/30/2022           DRAWING NUMBER                      | ╢   |
|   |    |          |    |                                                                     | A   |
|   |    |          |    |                                                                     |     |
|   |    |          |    | FILE P:\2000\IOB # - IOB NAME\                                      |     |
|   | 13 | 14       | 15 |                                                                     | ┭   |

![](_page_51_Figure_0.jpeg)

![](_page_51_Figure_1.jpeg)

9

11

12

13

![](_page_51_Figure_2.jpeg)

14

15

1 #16 GA. OR 2 @ 18 GA. & 2 TIGHT TURNS TYP @ EACH MAIN RUNNER. MAIN RUNNER, COLD ROLLED CHANNEL @ 48" OC SEE DTL 16/A SHT A6.30 DRYWALL FURRING CHANNELS, @ 12" OC

#12 VERT HANGER WIRE 4'-0" OC AND WITH MIN. 3 TIGHT TURNS IN 4" BOTH

WITHIN 8" OF PERIMETER WALL SADDLE TIE #12 BRACING WIRE @ 8' X 12' (96 SQFT)

GRID. SADDLE TIE WITH 3 TIGHT TURNS IN 1-1/2. MAINTAIN CLEARANCE @ ALL

CEILING OBSTRUCTIONS. 45° MAX. TO CLG

14

15

NOTES

**REVISION/SUBMISSION** 

GERARD

CONSULTING ENGINEERS, D.P.C.

TEL: (845) 291 1272

www.GerardAssociates.com info@GerardAssociates.com

GA21063

SZEWCZAK ASSOCIATES

Liscum

ARCHITECTURE 181 CHURCH STREET POUGHKEEPSIE, NEW YORK 12601

NEW FIRE STATION FOR

NYS ROUTE 52, FISHKILL, NY

PLANNING INTERIORS PHONE 845-452-2268 FAX 845-452-3752

**ROMBOUT FIRE DISTRICT - STATION 2** 

DRAWN BY

LR/KS

RV

DRAWING NUMBER

CHECKED BY

McCormack

VanVoorhis LLP

PROJECT NUMBER

A500

P:\2000\JOB # - JOB NAME

18142

11/30/2022

223 MAIN STREET, GOSHEN NY 10924

Consulting Engineers

phone 860.677.4570 fax 860.676.0814

200 Fisher Drive Avon, Connecticut

ASSOCIATES

No.

PROJECT

DRAWING

DETAILS

Mechanical/Electrical/Plumbing Engineer

DATE

![](_page_52_Figure_0.jpeg)

![](_page_53_Figure_0.jpeg)

![](_page_54_Figure_0.jpeg)

![](_page_55_Figure_0.jpeg)

![](_page_56_Figure_0.jpeg)

| 8                      | 9                             |                | 1                        | 10            |              | 11                     |                       | 12           |                               | 13                                                                                                                                      | 14                                          | 15            |                                                                                               | _                |
|------------------------|-------------------------------|----------------|--------------------------|---------------|--------------|------------------------|-----------------------|--------------|-------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------|---------------|-----------------------------------------------------------------------------------------------|------------------|
|                        |                               |                | FINIS                    | SH            | SCH          | EDU                    | LE                    |              |                               |                                                                                                                                         | 1                                           | ]             | NOTES                                                                                         |                  |
| SYMBOL                 | ITEM                          | N              | ANUFACTU                 | RER           | N            | 0.                     | NAME                  |              | F                             | REMARKS                                                                                                                                 | FINISH LEGEND:                              |               |                                                                                               |                  |
| ACT-1                  | ACOUSTIC CEILING TIL          | E E            | USG                      |               | 80           | 8                      | SANDRIFT CLIMA        | –PLUS 2      | X2                            |                                                                                                                                         | ACT = ACOUSTICAL CEII<br>ALUM = ALUMINUM    | LING TILE     |                                                                                               | L                |
| PT-1                   | PORCELAIN TILE                |                | DALTILE                  |               | AM3          | 34                     | JET SETTER D          | USK U        | INPOLISHED 12                 | 2 x 24 TILE (FLOOR)                                                                                                                     | C = CARPET TILE<br>CMU = CONCRETE MASC      | ONRY UNIT     |                                                                                               |                  |
| PT-2                   | PORCELAIN TILE                |                | DALTILE                  |               |              | 30<br>309              |                       | DS P         | $\frac{12}{12} \text{ BULLN}$ | 24 FIELD (WALL)                                                                                                                         | GL = GLASS                                  |               |                                                                                               |                  |
| CG-1                   | CORNER GUARD                  | CON            | ISTRUCTION SP            | ECIALTIES     | S SM-1       | 20N                    | #262 DRIFTWO          | DOD FI       | ULL HEIGHT                    | USE (MATCH WALL HEL)                                                                                                                    | H.M. = HOLLOW METAL                         |               |                                                                                               |                  |
| P-1                    | PAINT                         |                | SHERWIN WILLIA           | AMS           | SW 7         | 056                    | RESERVED WH           | HITE E       | GG SHELL, GE                  | ENERAL WALL COLOR                                                                                                                       | M = WALK-OFF MAT $MFR = MANUFACTURFR$       |               |                                                                                               |                  |
| P-2                    | PAINT                         |                | SHERWIN WILLIA           | AMS           | SW 7         | 017                    | DORIAN GRA            | Y S          | EMI GLOSS, H                  | IM DOOR & FRAMES                                                                                                                        | P = PAINT<br>S = CONCRETE SEALER            |               |                                                                                               |                  |
| P-3                    | PAINT                         |                | SHERWIN WILLIA           | AMS<br>AMS    |              | 007                    | GRIZZLE GRA           | WHITE FI     | EMI GLOSS. P                  | & GYP. BD. CEILINGS                                                                                                                     | UNFIN = UNFINISHED<br>VCT = VINYI COMPOSITI | ON THE        |                                                                                               | K                |
| P-5                    | FLEK PAINT                    |                | ZOLATONE                 |               | POLO         | MYX                    | PWQ-2823              | 5 W          | ALL UP TO 6                   | ·-8"                                                                                                                                    | WAB = WET AREA BACK<br>WD = WOOD            | KING BOARD    |                                                                                               |                  |
| P-6                    | FLEK PAINT                    |                | ZOLATONE                 |               | POLO         | МҮХ                    | PLX-01060             | ) W          | ALL FROM 6'                   | -8" TO CEILING                                                                                                                          |                                             |               |                                                                                               |                  |
| PL-1                   | PLASTIC LAMINATE              |                |                          |               | No. 88       | 342                    | WEATHERED AS          | SH B         | ASE CABINET                   | S                                                                                                                                       |                                             |               |                                                                                               | ┢                |
| RF-1<br>RF-2           | RUBBER FLOORING               |                | IORA BY INTERI           | - ACE<br>FACE | ART.         | 3167                   | 5355 PALAZ            | ZO N         | ORAMENT PAR                   | STELLO 39.53" x 39.53"                                                                                                                  |                                             |               |                                                                                               |                  |
| RF-3                   | RUBBER FLOORING               | N              | IORA BY INTER            | FACE          | ART.         | 3167                   | 5356 DOMU             | S N          | ORAMENT CAS                   | STELLO 39.53" x 39.53"                                                                                                                  |                                             |               |                                                                                               |                  |
| RF-4                   | RUBBER FLOORING               | N              | IORA BY INTER            | FACE          | ART.         | 1880                   | 5109 ORION            | N N          | ORAMENT SA                    | TURA 39.53" x 39.53"                                                                                                                    |                                             |               |                                                                                               | J                |
| RB-1                   | RUBBER BASE                   | N              | IORA BY INTER            | FACE          |              | 820                    | BLANCO NORT           | OKE W        | FSTROOM C-                    | TOPS 3/4" THK MINIMUM                                                                                                                   |                                             |               |                                                                                               |                  |
|                        |                               |                | SILLOTONL                |               |              |                        |                       |              |                               |                                                                                                                                         |                                             |               |                                                                                               |                  |
|                        |                               |                |                          |               |              |                        |                       |              |                               |                                                                                                                                         |                                             |               |                                                                                               |                  |
|                        |                               |                |                          |               |              |                        |                       |              |                               |                                                                                                                                         |                                             |               |                                                                                               |                  |
|                        |                               |                |                          |               |              |                        |                       |              |                               |                                                                                                                                         |                                             |               |                                                                                               |                  |
| FINISH SCHEDULE NOTES  | <u>S:</u>                     |                |                          |               | 1            |                        |                       | I            |                               |                                                                                                                                         |                                             |               |                                                                                               | '                |
| 1. SUSPENSION SYSTEM   | FOR ACT CEILINGS TO BE USG    | DX EXPOSED TI  | EE GRID, IN WHITE.       |               |              |                        |                       |              |                               |                                                                                                                                         |                                             |               |                                                                                               |                  |
| 2. PROVIDE & INSTALL   | TRANSITION STRIP @ LOCATIONS  | OF FLOOR       |                          |               |              |                        |                       |              |                               |                                                                                                                                         |                                             |               |                                                                                               |                  |
| 3. SEF MILLWORK DETAIL | ILS & INTERIOR FLEVATIONS FOR | PLASTIC        |                          |               |              |                        |                       |              |                               |                                                                                                                                         |                                             |               |                                                                                               |                  |
| LAMINATE ASSIGNMENT.   |                               |                |                          |               |              |                        |                       |              |                               |                                                                                                                                         |                                             |               |                                                                                               |                  |
| 4. ALL CONCRETE FLOOP  | DRS TO BE SEALED, COORD W/ F  | INISH MANUF. I | REQ'S.                   |               |              |                        |                       |              |                               |                                                                                                                                         |                                             |               |                                                                                               | Пн               |
| 5. PROVIDE & INSTALL I | MARBLE ADA THRESHOLD @ TOIL   | LET ROOM LOCA  | ATIONS WITH FLOOR        | TRANSITION    | S TO PT-1    |                        |                       |              |                               |                                                                                                                                         |                                             |               |                                                                                               |                  |
| 6. PROVIDE SCHLUTTER   | TILE ACCESSORY TRIMS FOR INS  | SIDE AND OUTS  | IDE TILE INTERSECTION    | ONS AS REC    | QUIRED FOR A | FINISHED INS           | TALLATION             |              |                               |                                                                                                                                         |                                             |               |                                                                                               |                  |
|                        |                               |                | ROON                     | 1 FI          | NISH         | H SC                   | CHEDUL                |              |                               |                                                                                                                                         |                                             |               |                                                                                               |                  |
| LOCATION               |                               | FLOOR          |                          |               | WALL         |                        | CEILING               |              |                               |                                                                                                                                         |                                             |               |                                                                                               |                  |
| NUMBER ROOM            |                               | MATERIAL       | FINISH                   | BASE          | MATERIAL     | FINISH                 | MATERIAL              | FINISH       | HEIGHT                        | REMARKS                                                                                                                                 |                                             |               |                                                                                               |                  |
| 100 LOBBY              | Y                             | CONC.          | RF-1                     | RB-1          | GWB          | P-1                    | ACT-1/GYP BD          | MFR/P-3      | 9'-0"&8'-0                    | "                                                                                                                                       |                                             |               |                                                                                               | G                |
| 101 RADIO              | ) ROOM                        | CONC.          | RF-1                     | RB-1          | GWB          | P-1                    | ACT-1                 | MFR          | 8'-0"                         |                                                                                                                                         |                                             |               |                                                                                               |                  |
| 102 OFFICE             | E                             | CONC.          | RF-1                     | RB-1          | GWB          | P-1                    | ACT-1                 | MFR<br>MFR   | 9'-0"                         |                                                                                                                                         |                                             |               |                                                                                               |                  |
| 103 DAT K              | IEN                           | CONC.          | RF-2, RF-3<br>RF-2, RF-3 | RB-1          | GWB          | P-1                    | ACT-1                 | MFR          | <u>9'-0"</u>                  |                                                                                                                                         |                                             |               |                                                                                               |                  |
| 105 HALLW              | WAY 1                         | CONC.          | RF-3                     | RB-1          | GWB          | P-1                    | ACT-1                 | MFR          | 9'-0"                         |                                                                                                                                         |                                             |               |                                                                                               |                  |
| 106 MEETIN             | NG/TRAINING ROOM              | CONC.          | RF-4                     | RB-1          | GWB          | P-1                    | ACT-1                 | MFR          | 9'-0"                         | SEE FINISH SCHEDULE NO                                                                                                                  | )TF #4                                      |               |                                                                                               |                  |
| 107 CLEAN              | DRY ROOM                      | CONC.          | SEALED CONC              | . –           |              | P-5, P-6               | ACI-1, GYP BD         | MFR<br>MFR   | 8'-0''<br>8'-0"               | WATER RESISTANT GYP B                                                                                                                   | D AT SHOWER CEILING                         |               |                                                                                               |                  |
| 109 HALLW              | WAY 2                         | CONC.          | SEALED CONC              | . –           | CMU          | P-5,P-6                | GYP BD                | P-3          | 9'-0"                         |                                                                                                                                         |                                             |               |                                                                                               | -                |
| 110 TOILET             | T                             | CONC.          | SEALED CONC              | . –           | CMU          | P-5,P-6                | ACT-1                 | MFR          | 8'-0"                         |                                                                                                                                         |                                             |               |                                                                                               |                  |
|                        | POOM                          | CONC.          | SEALED CONC              | . –           | CMU          | P-5,P-6                | ACT-1                 | MFR          | 8'-0"                         |                                                                                                                                         |                                             |               | No. REVISION/SUBMISSION DATE                                                                  | <i>,</i>         |
| 113 APPAR              | RATUS BAY                     | CONC.          | SEALED CONC              | . –           | CMU          | P-5,P-6<br>P-5,P-6     | GYP BD                | P-3          | 20'-0"                        |                                                                                                                                         |                                             |               |                                                                                               |                  |
| 114 VENDO              | OR DELIVERY/PICK-UP           | CONC.          | SEALED CONC              | . –           | CMU          | P-5,P-6                | ACT-1                 | MFR          | 9'-0"                         |                                                                                                                                         |                                             |               | GERARD                                                                                        |                  |
| 115 MECHA              | ANICAL ROOM                   | CONC.          | SEALED CONC              | . –           | CMU          | P-5,P-6                | GYP BD                | MFR          | 12'-0"                        |                                                                                                                                         |                                             |               | ASSOCIATES                                                                                    | E                |
| 116 STORA              | AGE                           | CONC.          | SEALED CONC              | . –           |              | P-5,P-6                | GYP BD                | MFR<br>MFR   | 12'-0"                        |                                                                                                                                         |                                             |               | CONSULTING ENGINEERS, D.P.C.<br>223 MAIN STREET, GOSHEN NY 10924                              |                  |
| 118 STORA              | AGE                           | CONC.          | SEALED CONC              | ·             | CMU          | P-5,P-6                | ACT-1                 | MFR          | 8'-0"                         | SEE FINISH SCHEDULE NO                                                                                                                  | OTE #4                                      |               | TEL: (845) 291 1272<br>www.GerardAssociates.com info@GerardAssociates.com                     |                  |
| 119 CLOSE              | ET                            | CONC.          | RF-2                     | RB-1          | GWB          | P-1                    | ACT-1                 | MFR          | 9'-0"                         |                                                                                                                                         |                                             |               | GA21063                                                                                       |                  |
| 120 STORA              | AGE                           | CONC.          | RF-2                     | RB-1          | GWB          | P-1                    | ACT-1                 | MFR          | 9'-0"                         | WATER DECISTANT OVER                                                                                                                    |                                             |               | Structural Engineer                                                                           |                  |
| 121 IOILET             | <u>'</u><br>T                 | CONC.          | PT-1                     | РВ-1          | GWB<br>GWR   | P-1                    | ACT-1, GYP BD         | MFR<br>MFR   | <u>9'-0"</u>                  | WATER RESISTANT GYP F                                                                                                                   | BD AT SHOWER AREA                           |               |                                                                                               | _                |
| 123 CLOSE              | ET                            | CONC.          | RF-2                     | RB-1          | GWB          | P-1                    | ACT-1                 | MFR          | 9'-0"                         |                                                                                                                                         |                                             |               | $\frac{\Box \Delta L W C \Delta A A A 3 3 0 C A 1 E 5}{C \alpha V C C A A A 3 3 0 C A 1 E 5}$ | <u>'</u>   _D    |
| 124 CLOSE              | ET                            | CONC.          | RF-2                     | RB-1          | GWB          | P-1                    | ACT-1                 | MFR          | 9'-0"                         |                                                                                                                                         |                                             | ]             | CONSULTINGL NGINEERS200 Fisher DriveAvon, Connecticut                                         |                  |
| 125 CLOSE              | ± <br>FT                      | CONC.          | RF-1                     | RB-1          | GWB          | P-1                    | GYP BD                | P-3          | 9'-0"                         |                                                                                                                                         |                                             |               | phone 860.677.4570 fax 860.676.0814                                                           |                  |
| 200 MEZZA              | ANINE                         | CONC.          | SEALED CONC              | . –           | CMU          | P-6                    | GYP BD                | P-3          | 10'-0"                        | SEE FINISH SCHEDULE NO                                                                                                                  | )TE #4                                      |               |                                                                                               |                  |
| 201 STORA              | AGE                           | CONC.          | SEALED CONC              | . –           | CMU          | P-6                    | ACT-1                 | MFR          | 9'-0"                         | SEE FINISH SCHEDULE NO                                                                                                                  | )TE #4                                      |               | Liscum                                                                                        |                  |
|                        |                               |                |                          |               |              |                        |                       |              |                               |                                                                                                                                         |                                             |               |                                                                                               |                  |
|                        |                               |                |                          |               |              |                        | +                     |              | 1'-2"                         |                                                                                                                                         |                                             |               | MCCOIMACK                                                                                     | С                |
| <b>د</b> ا             | 1'-2"                         |                |                          |               |              |                        |                       |              |                               |                                                                                                                                         | NEW SURFACE                                 | MTD FIRE      | LLES VanVoorhis 📖                                                                             | P                |
| Γ A                    |                               |                |                          | •1            |              |                        |                       | /            |                               |                                                                                                                                         | LX IINGUISHER<br>Model to re                | CABINET<br>11 | 181 CHURCH STREET<br>ARCHITECTURE POUGHKEEPSIE, NEW YORK 12601                                |                  |
|                        |                               |                | <br>\                    | $\mathbf{F}$  |              | ູ້                     |                       |              | \<br>                         |                                                                                                                                         | INDUSTRIES AM                               | BASSADOR      | PLANNING INTERIORS PHONE 845-452-2268 FAX 845-452-3752                                        |                  |
|                        |                               |                | )) *4                    |               |              |                        |                       | Ĭ,           | /                             |                                                                                                                                         | MODEL 1013-F                                | -10. FIRE     | NEW FIRE STATION FOR                                                                          |                  |
|                        |                               |                |                          |               |              |                        |                       | `\_          | `'                            |                                                                                                                                         | EXTINGUSHER<br>SENTINAL 5 OF                | IO BE         | ROMBOUT FIRE DISTRICT - STATION 2                                                             |                  |
|                        |                               |                | 11 · · ·                 |               |              | $\times \times \times$ |                       |              |                               |                                                                                                                                         |                                             | , LYUAL,      | DRAWING                                                                                       | −∥в              |
|                        |                               |                |                          |               |              | JXX                    | $\times$              | $\times$     |                               | $\times \times $ |                                             |               | SCHEDULES                                                                                     |                  |
|                        |                               |                |                          |               | . 2          | ~                      |                       |              |                               |                                                                                                                                         | $\sim$                                      |               |                                                                                               |                  |
|                        |                               |                |                          |               |              |                        | $\left \right\rangle$ | $[ \times ]$ | $\bowtie$                     | $\bowtie$                                                                                                                               |                                             |               | SEAL DRAWN BY PROJECT NUMBER                                                                  | $\neg \mid$      |
|                        |                               |                |                          |               |              |                        | $\bigotimes$          | $  \times  $ | $\bowtie$                     | $\bigotimes$                                                                                                                            |                                             |               | CHECKED BY DATE                                                                               | $\neg \parallel$ |
| /                      | \                             | $\bigvee$      | \                        |               |              |                        | ľ×                    | $\bigvee$    | $\bowtie$                     | ľ×                                                                                                                                      |                                             |               | RV 11/30/2022<br>DRAWING NUMBER                                                               | <u>'</u>         |
|                        |                               |                |                          |               |              |                        |                       |              |                               |                                                                                                                                         |                                             |               |                                                                                               |                  |
| (1) SEMI F             | RECESSED FE                   | C DET          | AIL                      |               |              |                        | 2 SURF                | ACE MT       | D FEC D                       | DETAIL                                                                                                                                  |                                             |               | A600                                                                                          |                  |
| ··· 1 1/2"             | ' = 1'-0"                     |                |                          |               |              |                        | ·-·· 1 1/2"           | = 1'-0"      |                               |                                                                                                                                         |                                             |               |                                                                                               |                  |
| Ω                      | 0                             |                |                          | 10            |              | 11                     |                       | 10           |                               | 40                                                                                                                                      | 4.4                                         | 45            | FILE P:\2000\JOB # - JOB NAM                                                                  | <u>1E\</u>       |
| 11                     |                               |                |                          |               |              |                        |                       |              |                               | 1.1                                                                                                                                     | 14                                          | 10            |                                                                                               |                  |

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 8 9                                              |                                   | 10                   | 11                 |                            | 12                     |                              | 13                                                 | 14   15                                                     |                                                                                              | ╡-               |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------|-----------------------------------|----------------------|--------------------|----------------------------|------------------------|------------------------------|----------------------------------------------------|-------------------------------------------------------------|----------------------------------------------------------------------------------------------|------------------|
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                  | FINIS                             | SH SCI               | HEDU               | LE                         |                        |                              |                                                    | I <del></del>                                               | NOTES                                                                                        |                  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | SYMBOL ITFM                                      | MANUFACTU                         | RER                  | No.                | NAMF                       |                        | F                            | REMARKS                                            | FINISH LEGEND:                                              |                                                                                              |                  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | ACT-1 ACOUSTIC CEILING TII                       | LE USG                            |                      | 808                | SANDRIFT CLIMA-PI          | LUS 2X                 | <2                           |                                                    | ACT = ACOUSTICAL CEILING TILE<br>ALUM = ALUMINUM            |                                                                                              | L                |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | PT-1 PORCELAIN TILE                              | DALTILE                           | /                    | M34                | JET SETTER DUS             | K UN                   | NPOLISHED 1                  | 2 x 24 TILE (FLOOR)                                | C = CARPET TILE<br>CMU = CONCRETE MASONRY UNIT              |                                                                                              |                  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | PT-2 PORCELAIN TILE                              | DALTILE                           | F                    | M90                | RIVER RAPIDS               | PC                     | DLISHED 6 x                  | 24 FIELD (WALL)                                    | CI = CERAMIC TILE<br>GL = GLASS<br>CWP = CXPSLIM WALL POARD |                                                                                              |                  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | CG-1 CORNER GUARD                                | CONSTRUCTION SP                   | PECIALTIES SM        | 1-20N              | #262 DRIFTWOOD             | ) FU                   | ILL HEIGHT                   | USE (MATCH WALL HEE)                               | H.M. = HOLLOW METAL                                         |                                                                                              | $\left  \right $ |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | P-1 PAINT                                        | SHERWIN WILLI                     | AMS SW               | 7056               | RESERVED WHITE             | E EG                   | GG SHELL, GI                 | ENERAL WALL COLOR                                  | M = WALK-OFF MAT<br>MFR = MANUFACTURER                      |                                                                                              |                  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | P-2 PAINT                                        | SHERWIN WILLI                     | AMS SW               | 7017               | DORIAN GRAY                | SE<br>HITE FI          | MI GLOSS, H                  | HM DOOR & FRAMES                                   | P = PAINT<br>S = CONCRETE SEALER                            |                                                                                              |                  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | P-3 PAINT<br>P-4 PAINT                           | SHERWIN WILLI                     | AMS SW               | 7068               | GRIZZLE GRAY               | SE                     | EMI GLOSS, F                 | PIPE RAILINGS/STRINGERS                            | UNFIN = UNFINISHED<br>VCT = VINYL COMPOSITION TILE          |                                                                                              | ĸ                |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | P-5 FLEK PAINT                                   | ZOLATONE                          | PO                   | LOMYX              | PWQ-28235                  | WA                     | ALL UP TO 6                  | ō'-8"                                              | WAB = WET AREA BACKING BOARD<br>WD = WOOD                   |                                                                                              |                  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | P-6 FLEK PAINT                                   | ZOLATONE<br>FORMICA               | PO<br>No             | LOMYX<br>8842      | PLX-01060<br>WEATHERED ASH | WA<br>BA               | ALL FROM 6'                  | -8" TO CEILING                                     |                                                             |                                                                                              |                  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | RF-1 RUBBER FLOORING                             | NORA BY INTER                     | FACE AR              | Г. 3167            | 5505 CONCRETE              | I NC                   | DRAMENT PA                   | DO 39.53" x 39.53"                                 |                                                             |                                                                                              |                  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | RF-2 RUBBER FLOORING                             | NORA BY INTER                     | FACE AR              | Г. 3167<br>Г. 3167 | 5355 PALAZZO               | NC                     | DRAMENT CA                   | STELLO 39.53" × 39.53"                             |                                                             |                                                                                              |                  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | RF-3 RUBBER FLOORING                             | NORA BY INTER                     | FACE AR              | Г. 3167<br>Г. 1880 | 5356 DOMUS<br>5109 ORION   |                        | DRAMENT CA                   | STELLO 39.53" x 39.53"<br>TURA 39.53" x 39.53"     |                                                             |                                                                                              | J                |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | RB-1 RUBBER BASE                                 | NORA BY INTER                     | FACE AR              | T. 820             | 6286 GUNSMOKE              | E WA                   | ALL BASE ~·                  | 4"                                                 |                                                             |                                                                                              |                  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | SS-1 SOLID SURFACE                               | SILESTONE                         | : MYT                | HOLOGY             | BLANCO NORTE14             | 4 RE                   | STROOM C-                    | TOPS, 3/4" THK MINIMUM                             |                                                             |                                                                                              |                  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                  |                                   |                      |                    |                            |                        |                              |                                                    |                                                             |                                                                                              | $\left  \right $ |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                  |                                   |                      |                    |                            |                        |                              |                                                    |                                                             |                                                                                              |                  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                  |                                   |                      |                    |                            |                        |                              |                                                    |                                                             |                                                                                              |                  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | TINISH SCHEDULE NOTES:                           |                                   |                      |                    |                            |                        |                              |                                                    |                                                             |                                                                                              |                  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 1. SUSPENSION SYSTEM FOR ACT CEILINGS TO BE USG  | G DX EXPOSED TEE GRID, IN WHITE.  |                      |                    |                            |                        |                              |                                                    |                                                             |                                                                                              |                  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 2. PROVIDE & INSTALL TRANSITION STRIP @ LOCATION | S OF FLOOR                        |                      |                    |                            |                        |                              |                                                    |                                                             |                                                                                              |                  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 3. SEE MILLWORK DETAILS & INTERIOR ELEVATIONS FO | R PLASTIC                         |                      |                    |                            |                        |                              |                                                    |                                                             |                                                                                              |                  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | LAMINATE ASSIGNMENT.                             |                                   |                      |                    |                            |                        |                              |                                                    |                                                             |                                                                                              |                  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 4. ALL CONCRETE FLOORS TO BE SEALED, COORD W/    | FINISH MANUF. REQ'S.              |                      |                    |                            |                        |                              |                                                    |                                                             |                                                                                              | Н                |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 5. PROVIDE & INSTALL MARBLE ADA THRESHOLD @ TC   | DILET ROOM LOCATIONS WITH FLOOR   | TRANSITIONS TO PT-1  |                    |                            |                        |                              |                                                    |                                                             |                                                                                              |                  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 6. PROVIDE SCHLUTTER TILE ACCESSORY TRIMS FOR IN | NSIDE AND OUTSIDE TILE INTERSECTI | IONS AS REQUIRED FOR | R A FINISHED INS   |                            |                        |                              |                                                    |                                                             |                                                                                              |                  |
| LIGATO 10       F 003       941       SEIL AC                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                  | T KUUN                            | VI FIINIZ            | H SC               | HEDULE                     |                        |                              |                                                    |                                                             |                                                                                              |                  |
| LAMP         Polds         Lamp         Parts         Parts <thp< td=""><td>LOCATION</td><td>FLOOR</td><td>WALL</td><td></td><td>CEILING</td><td></td><td>1</td><td></td><td></td><td></td><td></td></thp<>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | LOCATION                                         | FLOOR                             | WALL                 |                    | CEILING                    |                        | 1                            |                                                    |                                                             |                                                                                              |                  |
| 100       100       100       100       100       100       100       100       100       100       100       100       100       100       100       100       100       100       100       100       100       100       100       100       100       100       100       100       100       100       100       100       100       100       100       100       100       100       100       100       100       100       100       100       100       100       100       100       100       100       100       100       100       100       100       100       100       100       100       100       100       100       100       100       100       100       100       100       100       100       100       100       100       100       100       100       100       100       100       100       100       100       100       100       100       100       100       100       100       100       100       100       100       100       100       100       100       100       100       100       100       100       100       100       100       100                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | NUMBER ROOM                                      | MATERIAL FINISH                   | BASE MATERIA         | L FINISH           | MATERIAL FI                | NISH                   | HEIGHT                       | REMARKS                                            |                                                             |                                                                                              |                  |
| 120       1100       120       1100       120       1100       120       1100       120       1100       120       1100       120       120       120       120       120       120       120       120       120       120       120       120       120       120       120       120       120       120       120       120       120       120       120       120       120       120       120       120       120       120       120       120       120       120       120       120       120       120       120       120       120       120       120       120       120       120       120       120       120       120       120       120       120       120       120       120       120       120       120       120       120       120       120       120       120       120       120       120       120       120       120       120       120       120       120       120       120       120       120       120       120       120       120       120       120       120       120       120       120       120       120       120       120       120                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 100 LOBBY<br>101 RADIO ROOM                      | CONC. RF-1<br>CONC. RF-1          | RB-1 GWB             | P-1<br>P-1         | ACT-1/GYP BD               | MFR/P-3<br>MFR         | <u>9-0 &amp;8-0</u><br>8'-0" |                                                    |                                                             |                                                                                              | G                |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 102 OFFICE                                       | CONC. RF-1                        | RB-1 GWB             | P-1                | ACT-1                      | MFR                    | 9'-0"                        |                                                    |                                                             |                                                                                              |                  |
| 1000       1000       1000       1000       1000       1000       1000       1000       1000       1000       1000       1000       1000       1000       1000       1000       1000       1000       1000       1000       1000       1000       1000       1000       1000       1000       1000       1000       1000       1000       1000       1000       1000       1000       1000       1000       1000       1000       1000       1000       1000       1000       1000       1000       1000       1000       1000       1000       1000       1000       1000       1000       1000       1000       1000       1000       1000       1000       1000       1000       1000       1000       1000       1000       1000       1000       1000       1000       1000       1000       1000       1000       1000       1000       1000       10000       1000       1000       1000       1000       1000       1000       1000       1000       1000       1000       1000       1000       1000       1000       1000       1000       1000       1000       1000       1000       1000       1000       1000       1000       1000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 103 DAY ROOM                                     | CONC. RF-2, RF-3                  | RB-1 GWB             | P-1                | ACT-1                      | MFR                    | 9'-0"                        |                                                    |                                                             |                                                                                              |                  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 104 KITCHEN<br>105 HALLWAY 1                     | CONC. RF-2, RF-3                  | RB-1 GWB             | P-1                |                            | MFR<br>MFR             | 9'-0"<br>9'-0"               |                                                    |                                                             |                                                                                              | $\vdash$         |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 106 MEETING/TRAINING ROOM                        | CONC. RF-4                        | RB-1 GWB             | P-1                | ACT-1                      | MFR                    | 9'-0"                        |                                                    |                                                             |                                                                                              |                  |
| 1       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 107 CLEAN ROOM                                   | CONC. SEALED CONC                 | С. — СМU             | P-5,P-6            | ACT-1, GYP BD              | MFR                    | 8'-0"                        | SEE FINISH SCHEDULE NOTE<br>WATER RESISTANT GYP BD | E #4<br>AT SHOWER CEILING                                   |                                                                                              |                  |
| 10       1100000000000000000000000000000000000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 108 LAUNDRY ROOM                                 | CONC. SEALED CONC                 | C. – CMU             | P-5,P-6            | ACT-1                      | MFR                    | 8'-0"                        |                                                    |                                                             |                                                                                              | F<br>↓           |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 110 TOILET                                       | CONC. SEALED CONC                 | с. — Сми<br>с. — Сми | P-5,P-6<br>P-5,P-6 | ACT-1                      | MFR                    | 9 –0<br>8'–0"                |                                                    |                                                             |                                                                                              |                  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 111 UTILITY                                      | CONC. SEALED CONC                 | с. — сми             | P-5,P-6            | ACT-1                      | MFR                    | 8'-0"                        |                                                    |                                                             | No. REVISION/SUBMISSION DATE                                                                 | -                |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 112 GEAR ROOM                                    | CONC. SEALED CONC                 | C. – CMU             | P-5,P-6            | OPEN, STL DECK             | P-3                    | 9'-8"                        |                                                    |                                                             | Mechanical/Electrical/Plumbing Engineer                                                      | $\uparrow$       |
| 1/10       1/2       1/2       1/2       1/2       1/2       1/2       1/2       1/2       1/2       1/2       1/2       1/2       1/2       1/2       1/2       1/2       1/2       1/2       1/2       1/2       1/2       1/2       1/2       1/2       1/2       1/2       1/2       1/2       1/2       1/2       1/2       1/2       1/2       1/2       1/2       1/2       1/2       1/2       1/2       1/2       1/2       1/2       1/2       1/2       1/2       1/2       1/2       1/2       1/2       1/2       1/2       1/2       1/2       1/2       1/2       1/2       1/2       1/2       1/2       1/2       1/2       1/2       1/2       1/2       1/2       1/2       1/2       1/2       1/2       1/2       1/2       1/2       1/2       1/2       1/2       1/2       1/2       1/2       1/2       1/2       1/2       1/2       1/2       1/2       1/2       1/2       1/2       1/2       1/2       1/2       1/2       1/2       1/2       1/2       1/2       1/2       1/2       1/2       1/2       1/2       1/2       1/2       1/2       1/2       1/2 <th< td=""><td>114 VENDOR DELIVERY/PICK-UP</td><td>CONC. SEALED CONC</td><td>2. – CMU<br/>2. – CMU</td><td>P-5,P-6</td><td>ACT-1</td><td>MFR</td><td><u> </u></td><td></td><td></td><td>GERARD</td><td></td></th<>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 114 VENDOR DELIVERY/PICK-UP                      | CONC. SEALED CONC                 | 2. – CMU<br>2. – CMU | P-5,P-6            | ACT-1                      | MFR                    | <u> </u>                     |                                                    |                                                             | GERARD                                                                                       |                  |
| Int       SUBARY       CRACE       SALE CODE       CAR       P. Ort       MM       Y       Y       Y       Y       Y       Y       Y       Y       Y       Y       Y       Y       Y       Y       Y       Y       Y       Y       Y       Y       Y       Y       Y       Y       Y       Y       Y       Y       Y       Y       Y       Y       Y       Y       Y       Y       Y       Y       Y       Y       Y       Y       Y       Y       Y       Y       Y       Y       Y       Y       Y       Y       Y       Y       Y       Y       Y       Y       Y       Y       Y       Y       Y       Y       Y       Y       Y       Y       Y       Y       Y       Y       Y       Y       Y       Y       Y       Y       Y       Y       Y       Y       Y       Y       Y       Y       Y       Y       Y       Y       Y       Y       Y       Y       Y       Y       Y       Y       Y       Y       Y       Y       Y       Y       Y       Y       Y       Y       Y       Y <th< td=""><td>115 MECHANICAL ROOM</td><td>CONC. SEALED CONC</td><td>с. — сми</td><td>P-5,P-6</td><td>GYP BD</td><td>MFR</td><td>12'-0"</td><td></td><td></td><td>ASSOCIATES</td><td></td></th<>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 115 MECHANICAL ROOM                              | CONC. SEALED CONC                 | с. — сми             | P-5,P-6            | GYP BD                     | MFR                    | 12'-0"                       |                                                    |                                                             | ASSOCIATES                                                                                   |                  |
| Image: District Stock       Code       Code <t< td=""><td>116 STORAGE</td><td>CONC. SEALED CONC</td><td>C. – CMU</td><td>P-5,P-6</td><td>GYP BD</td><td>MFR</td><td>12'-0"</td><td></td><td></td><td>CONSULTING ENGINEERS, D.P.C.<br/>223 MAIN STREET GOSHEN NY 10924</td><td></td></t<>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 116 STORAGE                                      | CONC. SEALED CONC                 | C. – CMU             | P-5,P-6            | GYP BD                     | MFR                    | 12'-0"                       |                                                    |                                                             | CONSULTING ENGINEERS, D.P.C.<br>223 MAIN STREET GOSHEN NY 10924                              |                  |
| Image:                                                                                                                                                                                                                                                                 | 118 STORAGE                                      | CONC. SEALED CONC                 | 2. – CMU<br>2. – CMU | P-5,P-6            | ACT-1                      | MFR                    | 8'-0"                        | SEE FINISH SCHEDULE NOT                            | E #4                                                        | TEL: (845) 291 1272<br>www.GerardAssociates.com info@GerardAssociates.com                    |                  |
| 120       0210       0210       0210       0210       0210       0210       0210       0210       0210       0210       0210       0210       0210       0210       0210       0210       0210       0210       0210       0210       0210       0210       0210       0210       0210       0210       0210       0210       0210       0210       0210       0210       0210       0210       0210       0210       0210       0210       0210       0210       0210       0210       0210       0210       0210       0210       0210       0210       0210       0210       0210       0210       0210       0210       0210       0210       0210       0210       0210       0210       0210       0210       0210       0210       0210       0210       0210       0210       0210       0210       0210       0210       0210       0210       0210       0210       0210       0210       0210       0210       0210       0210       0210       0210       0210       0210       0210       0210       0210       0210       0210       0210       0210       0210       0210       0210       0210       0210       0210       0210                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 119 CLOSET                                       | CONC. RF-2                        | RB-1 GWB             | P-1                | ACT-1                      | MFR                    | 9'-0"                        |                                                    |                                                             | GA21063                                                                                      | ⋕_               |
| 122       124       124       124       124       124       124       124       124       124       124       124       124       124       124       124       124       124       124       124       124       124       124       124       124       124       124       124       124       124       124       124       124       124       124       124       124       124       124       124       124       124       124       124       124       124       124       124       124       124       124       124       124       124       124       124       124       124       124       124       124       124       124       124       124       124       124       124       124       124       124       124       124       124       124       124       124       124       124       124       124       124       124       124       124       124       124       124       124       124       124       124       124       124       124       124       124       124       124       124       124       124       124       124       124       124       1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 120 STORAGE                                      | CONC. RF-2                        | RB-1 GWB             | P-1                | ACT-1                      | MFR                    | 9'-0"                        | WATER RESISTANT AND DO                             | AT SHOWER AREA                                              | Suddarar Engineer                                                                            |                  |
| 122       COST       COMO       91-2       REI-1       ACI-1       MPR       91-97         124       COST       COMO       REI-1       REI-1       ACI-1       MPR       91-97       Como       Reining       Reining       Como       Reining       Como       Reining       Como       Reining       Como       Reining       Reining       Como       Reining       Como       Reining       Reining       Como       Reining       Reining       Como       Reining                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 122 TOILET                                       | CONC. PT-1                        | PB-1 GWB             | P-1                | ACT-1, GYP BD              | MFR                    | 9'-0"                        | WATER RESISTANT GYP BD                             | AT SHOWER AREA                                              | S7FWC7AK ASSOCIATES                                                                          |                  |
| 1125       125       125       125       125       125       125       125       125       125       125       125       125       125       125       125       125       125       125       125       125       125       125       125       125       125       125       125       125       125       125       125       125       125       125       125       125       125       125       125       125       125       125       125       125       125       125       125       125       125       125       125       125       125       125       125       125       125       125       125       125       125       125       125       125       125       125       125       125       125       125       125       125       125       126       126       126       126       126       126       126       126       126       126       126       126       126       126       126       126       126       126       126       126       126       126       126       126       126       126       126       126       126       126       126       126                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 123 CLOSET                                       | CONC. RF-2                        | RB-1 GWB             | P-1                | ACT-1                      | MFR                    | 9'-0"                        |                                                    |                                                             | $\begin{bmatrix} \Box \Box I I I \Box \Box I I I I I I I I I I I I $                         | D                |
| 125       1200       121       121       121       121       121       121       121       121       121       121       121       121       121       121       121       121       121       121       121       121       121       121       121       121       121       121       121       121       121       121       121       121       121       121       121       121       121       121       121       121       121       121       121       121       121       121       121       121       121       121       121       121       121       121       121       121       121       121       121       121       121       121       121       121       121       121       121       121       121       121       121       121       121       121       121       121       121       121       121       121       121       121       121       121       121       121       121       121       121       121       121       121       121       121       121       121       121       121       121       121       121       121       121       121                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 124 CLOSET                                       | CONC. RF-2                        | RB-1 GWB             | P-1                | ACT-1                      | MFR                    | 9'-0"                        |                                                    |                                                             | 200 Fisher DriveLINGINEEKSAvon, Connecticut                                                  |                  |
| 200         WEZZAN NE         CONC.         SEALED CONC         -         CNU         P-6         DY-0'         REC TINSH SCHEDULE NOTE #           201         STORAGE         CONC.         SEALED CONC         -         CNU         P-6         ACT-1         MTR         P-0'         REC TINSH SCHEDULE NOTE #           1         -         -         CNU         P-6         ACT-1         MTR         P-0'         REC TINSH SCHEDULE NOTE #           1         -         -         CNU         P-6         ACT-1         MTR         P-0'         REC TINSH SCHEDULE NOTE #           1         -         -         -         CNU         P-6         ACT-1         MTR         P-0'         REC TINSH SCHEDULE NOTE #         MCC CORCE         MCC CORCE <td< td=""><td>126 CLOSET</td><td>CONC. RF-1</td><td>RB-1 GWB</td><td>P-1</td><td>GYP BD</td><td>P-3</td><td><u>9</u>'-0"</td><td></td><td></td><td>phone 860.677.4570 fax 860.676.0814</td><td></td></td<>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 126 CLOSET                                       | CONC. RF-1                        | RB-1 GWB             | P-1                | GYP BD                     | P-3                    | <u>9</u> '-0"                |                                                    |                                                             | phone 860.677.4570 fax 860.676.0814                                                          |                  |
| 201       STORAGE       CONC.       SEALED CONC.       -       ONU       P-6       ACT-1       MIR       9-6°       BEE FINISH SCHEDULE NOTE #4         1-2°       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 200 MEZZANINE                                    | CONC. SEALED CONC                 | C. – CMU             | P-6                | GYP BD                     | P-3                    | 10'-0"                       | SEE FINISH SCHEDULE NOTE                           | E #4                                                        |                                                                                              | ╟                |
| 1'-2''       1'-2''       1'-2''       NEW SURFACE MID FIRE<br>DIDUSTRIES AMBASSADOR<br>MODEL 1013-F-10. FIRE<br>SINTINGUISHER CABINET<br>INDUSTRIES AMBASSADOR<br>MODEL 1013-F-10. FIRE<br>SINTINGUISHER TO BE<br>SINTINGUISHER TO BE<br>SINTINGUISHER<br>SINTINGUISHER TO BE<br>SINTINGUISHER TO BE<br>SIN | 201 STORAGE                                      | CONC. SEALED CONC                 | C. – CMU             | P-6                | ACT-1                      | MFR                    | 9'-0"                        | SEE FINISH SCHEDULE NOTE                           | E #4                                                        | Liscum                                                                                       |                  |
| 1-2"       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                  |                                   |                      |                    | _                          |                        | 1'-2"                        | k                                                  |                                                             | McCormack                                                                                    |                  |
| 1-2"       Image: Construction of the second s                                                                                                                                                                                                                                                                                 |                                                  |                                   |                      |                    | ×                          | ]                      |                              |                                                    |                                                             | VanVoorbis                                                                                   | C                |
| Image: Second                                                                                                                                                                                                                                                                        | 1'-2"                                            |                                   |                      |                    |                            | /                      |                              |                                                    | EXTINGUISHER CABINET                                        | V UIIV UUIIIS LLP<br>181 CHURCH STREET                                                       |                  |
| INDUSTRIES AMEASSAUR         INDUSTRIES AMEASSAUR         MODEL 1013-FILE         MODEL 1013-FILE         SEMI RECESSED FEC DETAIL         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1          1         1         1         1         1         1         1         1         1         1         1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                  |                                   | *                    |                    |                            | 1                      |                              |                                                    | MODEL TO BE JL                                              | ARCHITECTUREPOUGHKEEPSIE, NEW YORK 12601PLANNING INTERIORSPHONE 845-452-2268FAX 845-452-3752 |                  |
| EXTINGUSHER TO BE<br>SENTINAL 5 OR EQUAL.<br>PROVIDE FRT BLOCKING<br>SEMI RECESSED FEC DETAIL<br>1 1/2" = 1'-0"<br>8 9 10 11 12 13 14 15<br>EXTINGUSHER TO BE<br>SENTINAL 5 OR EQUAL.<br>ROMBOUT FIRE DISTRICT - STATION 2<br>NYS ROUTE 52, FISHKILL, NY<br>PROVIDE FRT BLOCKING<br>SCHEDULES<br>ROMBOUT FIRE DISTRICT - STATION 2<br>NYS ROUTE 52, FISHKILL, NY<br>PROVIDE FRT BLOCKING<br>SCHEDULES<br>ROMBOUT FIRE DISTRICT - STATION 2<br>NYS ROUTE 52, FISHKILL, NY<br>PROVIDE FRT BLOCKING<br>SCHEDULES<br>ROMBOUT FIRE DISTRICT - STATION 2<br>NYS ROUTE 52, FISHKILL, NY<br>PROVIDE FRT BLOCKING<br>SCHEDULES<br>ROMBOUT FIRE DISTRICT - STATION 2<br>NYS ROUTE 52, FISHKILL, NY<br>PROVIDE FRT BLOCKING<br>SCHEDULES<br>ROMBOUT FIRE DISTRICT - STATION 2<br>NYS ROUTE 52, FISHKILL, NY<br>PROVIDE FRT BLOCKING<br>SCHEDULES<br>ROMBOUT FIRE DISTRICT - STATION 2<br>NYS ROUTE 52, FISHKILL, NY<br>PROVIDE FRT BLOCKING<br>SCHEDULES<br>ROMBOUT FIRE DISTRICT - STATION 2<br>NYS ROUTE 52, FISHKILL, NY<br>PROVIDE FRT BLOCKING<br>SCHEDULES<br>ROMBOUT FIRE DISTRICT - STATION 2<br>NYS ROUTE 52, FISHKILL, NY<br>PROVIDE FRT BLOCKING<br>SCHEDULES<br>ROMBOUT FIRE DISTRICT - STATION 2<br>NYS ROUTE 52, FISHKILL, NY<br>PROVIDE FRT BLOCKING<br>SCHEDULES<br>ROMBOUT FIRE DISTRICT - STATION 2<br>PROVIDE FRT BLOCKING                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                  |                                   |                      | ູ້                 | р                          | (<br>\                 | /                            |                                                    | MODEL 1013-F-10. FIRE                                       | PROJECT<br>NEW FIRE STATION FOR                                                              |                  |
| PROVIDE FRT BLOCKING         1       1/2" = 1'-0"         8       9       10       11       12       13       14       15                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                  | ↓ ↓ <sup>*</sup>                  | +                    | I                  |                            | \                      |                              |                                                    | EXTINGUSHER TO BE                                           | ROMBOUT FIRE DISTRICT - STATION 2                                                            |                  |
| Image: series of the series                                                                                                                                                                                                                                                                        |                                                  |                                   |                      |                    |                            |                        |                              |                                                    | SENTINAL 5 OR EQUAL.                                        | NYS ROUTE 52, FISHKILL, NY                                                                   | -  <sub>R</sub>  |
| Image: Sex in the second se                                                                                                                                                                                                                                                                        |                                                  |                                   |                      |                    |                            | $\sim$                 |                              |                                                    |                                                             | SCHEDULES                                                                                    |                  |
| Image: second                                                                                                                                                                                                                                                                        |                                                  |                                   |                      | $\square$          | $[ \times ]$               | X                      | $\mid$                       |                                                    |                                                             |                                                                                              |                  |
| Image: Provide first blocking       Image: Provide first blocking         Image: Provide first blocking       Image: P                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                  |                                   |                      |                    |                            |                        | $\land$                      |                                                    |                                                             | SEAL DRAWN BY PROJECT NUMBER                                                                 |                  |
| PROVIDE FRT BLOCKING<br>1 1/2" = 1'-0"       RV       11/30/2022         0       SEMI RECESSED FEC DETAIL<br>1 1/2" = 1'-0"       Q       SURFACE MTD FEC DETAIL<br>1 1/2" = 1'-0"       A         8       9       10       11       12       13       14       15                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                  |                                   |                      |                    | $\bowtie$                  | $\left  \right\rangle$ | $\triangleright$             |                                                    |                                                             | LR/KS 18142<br>CHECKED BY DATE                                                               | $\ $             |
| PROVIDE FRT BLOCKING<br>SEMI RECESSED FEC DETAIL<br>1 1/2" = 1'-0"       SURFACE MTD FEC DETAIL<br>1 1/2" = 1'-0"       A         8       9       10       11       12       13       14       15       A600       A                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | $\vee$ $\vee$ $\vee$                             |                                   |                      |                    | $[\searrow]$               | $[ \bigwedge ]$        | $\searrow$                   | 1 [X]                                              |                                                             | RV 11/30/2022                                                                                | ┨                |
| SEMI RECESSED FEC DETAIL       SURFACE MTD FEC DETAIL       A600         1 1/2" = 1'-0"       1 1/2" = 1'-0"       FILE       P:\2000\JOB # - JOB NAME\         8       9       10       11       12       13       14       15                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | PROVIDE FRT BLOCKIN                              | IG                                |                      |                    |                            |                        |                              |                                                    |                                                             |                                                                                              | A                |
| ····································                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | SEMI RECESSED FE                                 |                                   |                      |                    | 2 SURFAC                   |                        | D FEC [                      | DETAIL                                             |                                                             | A600                                                                                         |                  |
| B     9     10     11     12     13     14     15                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | ···· 1 1/2" = 1'-0"                              |                                   |                      |                    | · 1 1/2" =                 | 1'-0"                  |                              |                                                    |                                                             |                                                                                              |                  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 8 9                                              |                                   | 10                   | 11                 |                            | 12                     |                              | 13                                                 | 14 15                                                       | FILE     P:\2000\JOB # - JOB NAME\                                                           | 1                |

![](_page_57_Figure_0.jpeg)

|              |            | 7                 |         |      |         | 8      |            |      | 9        |       |      | 10   11                  | 12                          |
|--------------|------------|-------------------|---------|------|---------|--------|------------|------|----------|-------|------|--------------------------|-----------------------------|
|              |            |                   | DO      | OR   | ΑΝΓ     | ) FR   | <b>RAM</b> | E S  | CHE      | DUL   | E    |                          |                             |
|              |            | -                 |         |      |         |        |            | FRAM | <u> </u> |       | HARD |                          | 5/8" GYP. BD.               |
|              |            | SIZE              |         |      |         |        |            |      |          |       | WARE | NOTES                    | 7 5 /9" MTI                 |
| Μ            | WD         | HGT               | тнк     | TYPE | MATL    | FINISH | TYPE       | MATL | FINISH   | LABEL | SET  | NOTEO                    | STUDS                       |
| <i>I</i> 112 | 3'-0"      | 7'-0"             | 1 3/4"  | D1   | SC WD   | STAIN  | F1         | НМ   | P-3      | 1 HR  | 15   |                          | HOLLOW MIL.<br>FRAME_SECURE |
| 10.3         | 3'-0"      | 7'-0"             | 1 3/4"  | D2   | SC WD   | STAIN  | F1         | НМ   | P-3      |       | 15   |                          | TO STUDS AS F               |
| 124          | 5'-0"      | 7'-0"             | 1 3/4"  | D6   | SC WD   | STAIN  | F2         | НМ   | P-3      |       | 12   |                          |                             |
| 125          | 4'-0"      | 7'-0"             | 1 3/4"  | D6   | SC WD   | STAIN  | F2         | НМ   | P-3      |       | 12   |                          |                             |
| 126          | 4'-0"      | 7'-0"             | 1 3/4"  | D6   | SC WD   | STAIN  | F2         | НМ   | P-3      |       | 12   |                          | DH1                         |
| 123          | 5'-0"      | 7'-0"             | 1 3/4"  | D6   | SC WD   | STAIN  | F2         | НМ   | P-3      | 1 HR  | 12   |                          |                             |
| 110          | 3'-0"      | 7'-0"             | 1 3/4"  | D1   | НМ      | PAINT  | F1         | НМ   | P-3      |       | 11   |                          |                             |
| 111          | 3'-0"      | 7'-0"             | 1 3/4"  | D1   | НМ      | PAINT  | F1         | НМ   | P-3      |       | 13   |                          | 5/8" GYP. BD. —             |
| ′ 2          | 3'-0"      | 7'-0"             | 1 3/4"  | D2   | SC WD   | STAIN  | F1         | НМ   | P-3      | 1 HR  | 5    |                          | 6" MTL.                     |
| OM 108       | 3'-0"      | 7'-0"             | 1 3/4"  | D1   | НМ      | PAINT  | F1         | НМ   | P-3      |       | 13   |                          | STUDS                       |
| OM 108       | 3'-0"      | 7'-0"             | 1 3/4"  | D1   | НМ      | PAINT  | F1         | НМ   | P-3      |       | 15   |                          | HOLLOW MTL.                 |
| 118          | 6'-0"      | 7'-0"             | 1 3/4"  | D6   | НМ      | PAINT  | F2         | НМ   | P-3      |       | 12   |                          | TO STUDS AS REC             |
| (1           | 3'-0"      | 7'-0"             | 1 3/4"  | D2   | SC WD   | STAIN  | F1         | HM   | P-3      |       | 15   |                          |                             |
| 120          | 6'-0"      | 7'-0"             | 1 3/4"  | D6   | SC WD   | STAIN  | F2         | HM   | P-3      |       | 12   |                          |                             |
| 121          | 3'-0"      | 7'-0"             | 1 3/4"  | D1   | SC WD   | STAIN  | F1         | НМ   | P-3      |       | 11   |                          |                             |
| 22           | 3'-0"      | 7'-0"             | 1 3/4"  | D3   | SC WD   | STAIN  | F1         | НМ   | P-3      |       | 11   |                          |                             |
| (1           | 3'-0"      | 7'-0"             | 1 3/4"  | D4   | ALUM    | MANF   | F1         | НМ   | P-3      |       | 1    | EXTERIOR DOOR            |                             |
| ROOM 106     | 3'-0"      | 7'-0"             | 1 3/4"  | D4   | НМ      | PAINT  | F1         | НМ   | P-3      |       | 2    | EXTERIOR DOOR            |                             |
| M 107        | 3'-0"      | 7'-0"             | 1 3/4"  | D4   | HM      | PAINT  | F1         | HM   | P-3      |       | 3    | EXTERIOR DOOR            |                             |
| M 107        | 3'-0"      | 7'-0"             | 1 3/4"  | D1   | НМ      | PAINT  | F1         | HM   | P-3      |       | 15   |                          | 5/8 GTP. BD.                |
| BAY 113      | 14'-0"     | 14'-0"            | 2"      | OD2  | ALUM    | MANF   | F5         |      | MANF     |       | 16   | EXTERIOR FOURFOLD DOOR   | BLOCK                       |
| BAY 113      | 14'-0"     | 14'-0"            | 2"      | OD2  | ALUM    | MANF   | F5         |      | MANF     |       | 16   | EXTERIOR FOURFOLD DOOR   | %" HAT FURRIN               |
| BAY 113      | 14'-0"     | 14'-0"            | 2"      | OD2  | ALUM    | MANF   | F5         |      | MANF     |       | 16   | EXTERIOR FOURFOLD DOOR   |                             |
| BAY 113      | 14'-0"     | 14'-0"            | 2"      | OD2  | ALUM    | MANF   | F5         |      | MANF     |       | 16   | EXTERIOR FOURFOLD DOOR   |                             |
| 116          | 6'-0"      | 7'-0"             | 1 3/4"  | D6   | НМ      | PAINT  | F2         | НМ   | P-3      |       | 6    |                          | FRAME SECURE                |
| OOM 115      | 6'-0"      | 7'-0"             | 1 3/4"  | D6   | НМ      | PAINT  | F2         | НМ   | P-3      |       | 6    |                          | TO BLOCK REQ                |
| _ 117        | 3'-0"      | 7'-0"             | 1 3/4"  | D4   | НМ      | PAINT  | F1         | НМ   | P-3      |       | 16   |                          |                             |
| PICK-UP 114  | 3'-8"      | 7'-0"             | 1 3/4"  | D4   | HM      | PAINT  | F1         | HM   | P-3      |       | 9    |                          |                             |
| PICK-UP 114  | 3'-8"      | 7'-0"             | 1 3/4"  | D1   | НМ      | PAINT  | F1         | HM   | P-3      |       | 4    | EXTERIOR DOOR            |                             |
| BAY 113      | 14'-0"     | 14'-0"            | 2"      | OD1  | ALUM    | MANF   | F6         |      | MANF     |       | 16   | EXTERIOR OVERHEAD DOOR   | DH3                         |
| BAY 113      | 14'-0"     | 14'-0"            | 2"      | OD1  | ALUM    | MANF   | F6         |      | MANF     |       | 16   | EXTERIOR OVERHEAD DOOR   |                             |
| BAY 113      | 14'-0"     | 14'-0"            | 2"      | OD1  | ALUM    | MANF   | F6         |      | MANF     |       | 16   | EXTERIOR OVERHEAD DOOR   |                             |
| BAY 113      | 14'-0"     | 14'-0"            | 2"      | OD1  | ALUM    | MANF   | F6         |      | MANF     |       | 16   | EXTERIOR OVERHEAD DOOR   |                             |
| 119          | 3'-0"      | 7'-0"             | 1 3/4"  | D1   | SC WD   | STAIN  | F1         | HM   | P-3      |       | 14   |                          | BLOCK                       |
| 00           | 3'-0"      | 7'-0"             | 1 3/4"  | D3   | ALUM/GL | MANF   | F3         | ALUM | MANF     |       | 1    | EXTERIOR STOREFRONT DOOR |                             |
| M 101        | 3'-0"      | 7'-0"             | 1 3/4"  | D2   | SC WD   | HM     | F3         | HM   | P-3      |       | 13   | STOREFRONT               | FRAME SECURE                |
| 00           | 3'-0"      | 7'-0"             | 1 3/4"  | D2   | SC WD   | HM     | F3         | HM   | P-3      | 1 HR  | 5    | STOREFRONT               | TO BLOCK REQ.               |
| 102          | 3'-0"      | 7'-0"             | 1 3/4"  | D1   | SC WD   | STAIN  | F4         | HM   | P-3      |       | 7    | STOREFRONT               |                             |
| 103          | 3'-0"      | 7'-0"             | 1 3/4"  | D1   | SC WD   | STAIN  | F4         | HM   | P-3      |       | 5    | STOREFRONT               |                             |
| BAY 113      | 3'-0"      | 7'-0"             | 1 3/4"  | D3   | ALUM/GL | MANF   | F3         | ALUM | MANF     |       | 1    | EXTERIOR STOREFRONT DOOR |                             |
| BAY 113      | 3'-0"      | 7'-0"             | 1 3/4"  | D3   | ALUM/GL | MANF   | F3         | ALUM | MANF     |       |      | EXTERIOR STOREFRONT DOOR |                             |
| 201          | 3'-0"      | 7'-0"<br> * 5'_0" | 1 3/4"  | D1   | HM      | PAINT  | F1         | HM   | P-3      |       | 14   | MEZZANINE STORAGE        |                             |
| 00M 201      | 3'-0"      | CUSTOM            | 1 3/4"  | D1   | HM      | PAINT  | F1         | HM   | P-3      | 1 HR  | 8    | EQUIPMENT ACCESS DOOR    |                             |
| SHALL BE PLA | AIN SLICED | NATUF             | RAL MAF | PLE, |         |        |            |      |          |       |      |                          | <b>U31/1877</b> GYP. BD.    |

| 1 | * <u>14'-0"</u> |  |  |  |       |  |  |  |  |
|---|-----------------|--|--|--|-------|--|--|--|--|
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|   |                 |  |  |  |       |  |  |  |  |

OD2 FOUR FOLD FIRE STATION DOORS BY DOOR ALUMINUM DOOR SYSTEMS SERIES 521 -DARK BRONZE ANODIZED BY THE OVERHEAD DOOR CORPORATION. PROVIDE INSULATED TEMPERED GLASS AND MONITORED PHOTO-EYES FOR PRIMARY SAFETY. PROVIDE OPERATOR MODEL RHX W/ A PUSH BUTTON OPERATOR.

| REMARKS                    |
|----------------------------|
| INTERIOR WOOD FINISH MAPLE |
| INTERIOR WOOD FINISH MAPLE |
|                            |
|                            |
|                            |
| INTERIOR WOOD FINISH MAPLE |
|                            |

DH5

8" CONC.

2 1/2" METAL-

HOLLOW MTL.

TO BLOCK REQ.

BLOCK

STUD

DH6

12

11

10

![](_page_57_Figure_11.jpeg)

14

1

1

![](_page_58_Figure_0.jpeg)

|                  |                                                                          | WIRE & CONDUIT SCHEDULE (SERVICE ENTR                                                                                                                                                                                                                     | ANCE)                                                                                                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |      |
|------------------|--------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|
| TAG              |                                                                          |                                                                                                                                                                                                                                                           | DESCRIPTION                                                                                                                                                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |      |
| 1<br>2<br>3<br>4 | PRIMARY<br>CONDUCTORS<br>100A, 3-PHASE<br>400A, 3-PHASE<br>400A, 3-PHASE | <ul> <li>(3) #2 - I5kV ALUMINUM WITH FULL CONCENTRIC NEUTRAL,</li> <li>(4) #1 THWN ALUMINUM, 2" SCH. 80 PVC, UNDERGROUND</li> <li>(4) 500mcm THWN, 3½" SCH. 80 PVC UNDERGROUND</li> <li>(4) 500mcm THWN, #3 GROUND, 3" SCH. 40 PVC UNDERGROUND</li> </ul> | CABLE SIZE AND TYPE SHALL BE<br>APPROVED BY UTILITY CO.<br>SERVICE ENTRANCE CONDUCTORS<br>SERVICE ENTRANCE CONDUCTORS<br>GENERATOR CONDUCTORS                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | K    |
| <u> </u>         |                                                                          | 1                                                                                                                                                                                                                                                         | 1                                                                                                                                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |      |
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|                  |                                                                          |                                                                                                                                                                                                                                                           |                                                                                                                                                                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |      |
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|                  |                                                                          |                                                                                                                                                                                                                                                           |                                                                                                                                                                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | F    |
|                  |                                                                          |                                                                                                                                                                                                                                                           | No. REVISION/SUB<br>Mechanical/Electrical/Plumbing Engineer<br>CONSULTING EN<br>223 MAIN STREET,<br>TEL: (845)<br>info@GerardAssociates.com<br>GA2<br>Structural Engineer | MISSION DATE<br>ERARD<br>SOCIATES<br>GINEERS, D.P.C.<br>GOSHEN NY 10924<br>291 1272<br>www.GerardAssociates.com                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | E    |
|                  |                                                                          |                                                                                                                                                                                                                                                           | SZEWCZAK<br>CONSULTING EN<br>200 Fisher Drive Avor<br>phone 860.677.4570 fax 8                                                                                            | ASSOCIATES<br>NGINEERS<br>n, Connecticut<br>660.676.0814                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | D    |
|                  |                                                                          |                                                                                                                                                                                                                                                           | ARCHITECTURE<br>PLANNING INTERIORS<br>PROJECT                                                                                                                             | Cormack<br>Cormack<br>Noorhis LLP<br>CCH STREET<br>EEPSIE, NEW YORK 12601<br>45-452-2268 FAX 845-452-3752                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | C    |
|                  |                                                                          |                                                                                                                                                                                                                                                           | NEW FIRE STATION A<br>ROMBOUT FIRE DIST<br>NYS ROUTE 52, FISH<br>DRAWING<br>MECHANICAL &<br>SITE A                                                                        | FOR<br>IRICT - STATION 2<br>KILL, NY<br>ELECTRICAL:<br>PLAN                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | в    |
|                  |                                                                          |                                                                                                                                                                                                                                                           | SEAL DI                                                                                                                                                                   | RAWN BY<br>PROJECT NUMBER<br>RAWING NUMBER<br>PROJECT NUMBER<br>18142<br>18142<br>18142<br>18142<br>18142<br>18142<br>18142<br>18142<br>18142<br>18142<br>18142<br>18142<br>18142<br>18142<br>18142<br>18142<br>18142<br>18142<br>18142<br>18142<br>18142<br>18142<br>18142<br>18142<br>18142<br>18142<br>18142<br>18142<br>18142<br>18142<br>18142<br>18142<br>18142<br>18142<br>18142<br>18142<br>18142<br>18142<br>18142<br>18142<br>18142<br>18142<br>18142<br>18142<br>18142<br>18142<br>18142<br>18142<br>18142<br>18142<br>18142<br>18142<br>18142<br>18142<br>18142<br>18142<br>18142<br>18142<br>18142<br>18142<br>18142<br>18142<br>18142<br>18142<br>18142<br>18142<br>18142<br>18142<br>18142<br>18142<br>18142<br>18142<br>18142<br>18142<br>18142<br>18142<br>18142<br>18142<br>18142<br>18142<br>18142<br>18142<br>18142<br>18142<br>18142<br>18142<br>18142<br>18142<br>18142<br>18142<br>18142<br>18142<br>18142<br>18142<br>18142<br>18142<br>18142<br>18142<br>18142<br>18142<br>18142<br>18142<br>18142<br>18142<br>18142<br>18142<br>18142<br>18142<br>18142<br>18142<br>18142<br>18142<br>18142<br>18142<br>18142<br>18142<br>18142<br>18142<br>18142<br>18142<br>18142<br>18142<br>18142<br>18142<br>18142<br>18142<br>18142<br>18142<br>18142<br>18142<br>18142<br>18142<br>18142<br>18142<br>18142<br>18142<br>18142<br>18142<br>18142<br>18142<br>18142<br>18142<br>18142<br>18142<br>18142<br>18142<br>18142<br>18142<br>18142<br>18142<br>18142<br>18142<br>18142<br>18142<br>18142<br>18142<br>18142<br>18142<br>18142<br>18142<br>18142<br>18142<br>18142<br>18142<br>18142<br>18142<br>18142<br>18142<br>18142<br>18142<br>18142<br>18142<br>18142<br>18142<br>18142<br>18142<br>18142<br>18142<br>18142<br>18142<br>18142<br>18142<br>18142<br>18142<br>18142<br>18142<br>18142<br>18142<br>18142<br>18142<br>18142<br>18142<br>18142<br>18142<br>18142<br>18142<br>18142<br>18142<br>18142<br>18142<br>18142<br>18142<br>18142<br>18142<br>18142<br>18142<br>18142<br>18142<br>18142<br>18142<br>18142<br>18142<br>18142<br>18142<br>18142<br>18142<br>18142<br>18142<br>18142<br>18142<br>18142<br>18142<br>18142<br>18142<br>18142<br>18142<br>18142<br>18142<br>18142<br>18142<br>18142<br>18142<br>18142<br>18142<br>18142<br>18142<br>18142<br>18142<br>18142<br>18142<br>18142<br>18142<br>18142<br>18142<br>18142<br>18142<br>18142<br>18142<br>18142<br>18142<br>18142<br>18142<br>18142<br>18142<br>18142<br>18142<br>18142<br>18142<br>18142<br>18142<br>18142<br>18142<br>18142<br>18142<br>18142<br>18142<br>18142<br>18142<br>18142<br>18142<br>18142<br>18142<br>18142<br>18142<br>18142<br>18142<br>18142<br>18142<br>18142<br>18142<br>18142<br>18142<br>18142<br>18142<br>18 | A    |
|                  |                                                                          |                                                                                                                                                                                                                                                           | FILE                                                                                                                                                                      | MEPIOO                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |      |

![](_page_59_Figure_0.jpeg)

| ELECTRICAL | FIXTURE S |
|------------|-----------|
|            |           |

| ELECTRICAL FIATURE SCHEDULE |                                   |                                                                  |                                                            |                                    |        |       |               |                      |                                                                                                                                                                                          |
|-----------------------------|-----------------------------------|------------------------------------------------------------------|------------------------------------------------------------|------------------------------------|--------|-------|---------------|----------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ESIGNATION                  | FIXTURE<br>MANUFACTURER           | CATALOG #                                                        | POLE<br>DESIGNATION                                        | SOURCE                             | LUMENS | WATTS | VOLTAGE       | DISTRIBUTION<br>TYPE | DISCRIPTION                                                                                                                                                                              |
| <b>-□</b> <sub>A1</sub>     | ARCHITECTURAL<br>AREA<br>LIGHTING | UCM2-SR-STR-xxx-<br>36L-260-3K7-3-<br>DBS-SLA20-CL-<br>SF-UNV    | ARCHITECTURAL<br>AREA LIGHTING<br>RSA-A-10-40-A-<br>xx-DBS | L.E.D.                             | 3409   | 31.52 | 12 <i>0</i> V | 111                  | 24"¢ ROUND FIXTURE, MOUNTED ON 10'-0", 4"<br>ROUND ALUM. POLE AND 19½" ARM MOUNTED<br>ON TOP OF POLE, 3000°K, DARK BRONZE.<br>REFER TO DETAIL                                            |
| <b>-□</b> <sub>A2</sub>     | ARCHITECTURAL<br>AREA<br>LIGHTING | UCM2-SR-STR-xxx-<br>36L-260-3K7-3-<br>DBS-SLA20-CL-<br>HS-SF-UNV | ARCHITECTURAL<br>AREA LIGHTING<br>RSA-A-10-40-A-<br>xx-DBS | L.E.D.                             | 3409   | 31.52 | 120V          | 111                  | 24"¢ ROUND FIXTURE WITH BACK LIGHT<br>SHIELD, MOUNTED ON 10'-O", 4" ROUND ALUM.<br>POLE AND 19½" ARM MOUNTED ON TOP OF<br>POLE, 3000°K, DARK BRONZE. REFER TO<br>DETAIL                  |
| <b>-□</b> <sub>A3</sub>     | ARCHITECTURAL<br>AREA<br>LIGHTING | UCM2-SR-STR-XXX-<br>36L-260-3K7-4W-<br>DBS-SLA20-CL-<br>SF-UNV   | ARCHITECTURAL<br>AREA LIGHTING<br>RSA-A-IO-40-A-<br>xx-DBS | L.E.D.                             | 3449   | 31.52 | 12 <i>0</i> V | IV                   | 24"¢ ROUND FIXTURE, MOUNTED ON 10'-0", 4"<br>ROUND ALUM. POLE AND 19½" ARM MOUNTED<br>ON TOP OF POLE, 3000°K, DARK BRONZE.<br>REFER TO DETAIL                                            |
| ф <sub>в</sub>              | ARCHITECTURAL<br>AREA<br>LIGHTING | UCM2-SR-STR-XXX-<br>36L-260-3K7-4W-<br>DB5-WMA20-CL-<br>SF-UNV   | NA                                                         | L.E.D.                             | 3447   | 31.52 | 120V          | IV                   | EXTERIOR WALL MOUNTED FIXTURE, 3000°K,<br>DARK BRONZE, MOUNTED 8'-0" AFG                                                                                                                 |
| ф <sub>с</sub>              | KIM<br>LIGHITNG                   | WDS-D-24L-30-<br>3K7-4W-UNV-DBS                                  | NA                                                         | L.E.D.                             | 3267   | 30    | 120V          | IV                   | EXTERIOR WALL MOUNTED FIXTURE, 3000°K,<br>DARK BRONZE.                                                                                                                                   |
| ф <sub>р</sub>              | PROGRESS<br>LIGHTING              | P5896-108                                                        | NA                                                         | (I) MEDIUM<br>BASE L.E.D.<br>BULBS | 800    | q     | 120V          | NA                   | II <sup>3</sup> / <sub>4</sub> " TALL WALL MOUNTED FIXTURE, OIL<br>RUBBED BRONZE FINISH, 3000°K. SHALL BE<br>POWER THROUGH 250W CENTRAL EMERGENCY<br>BACKUP INVERTER. MOUNTED 8'-0" AFG. |
| -∲ <sub>F1</sub>            | HUBBELL                           | RFL4-176L-120<br>3K7-W-UNV-T-DBS                                 | NA                                                         | L.E.D.                             | 14647  | 120   | 120V          | NA                   | EXTERIOR WALL MOUNTED FLOOD LIGHT WITH KNUCKLE., 3000°K, DARK BRONZE. MOUNTED 14'-4" AFG.                                                                                                |
|                             | HUBBELL                           | RFL4-176L-120<br>4K7-W-UNV-K-DBS                                 | ARCHITECTURAL<br>AREA LIGHTING<br>RSA-A-IO-40-A-<br>TA-DBS | L.E.D.                             | 14647  | 120   | 1207          | NA                   | EXTERIOR POLE MOUNTED FLOOD LIGHT WITH<br>KNUCKLE. MOUNTED ON IO'-O", 4" ROUND<br>ALUM. POLE WITH 23/6" TENON MOUNT, 4000°K,<br>DARK BRONZE. REFER TO DETAIL.                            |
| ф <sub>с</sub>              | HUBBELL                           | RFL2-44L-25-4K7<br>-M-UNV-K-DBS                                  | NA                                                         | L.E.D.                             | 3203   | 26    | 1207          | NA                   | EXTERIOR FLAG POLE LIGHT WITH KNUCKLE.<br>4000°K, DARK BRONZE. REFER TO DETAIL.                                                                                                          |

### FIXTURES NOTES:

I. ELECTRICAL CONTRACTOR SHALL PROVIDE ADDITIONAL 'F2' TYPE FIXTURE PER OWNER'S REQUEST. CONFIRM QUANTITIES WITH OWNER PRIOR TO ORDERING.

![](_page_59_Figure_14.jpeg)

### POLE MOUNT LIGHT DETAIL **NOT TO SCALE**

- 8

# 

![](_page_59_Picture_24.jpeg)

![](_page_60_Figure_0.jpeg)

![](_page_60_Figure_3.jpeg)

13

ELECTRICAL ROOM

![](_page_60_Figure_4.jpeg)

14

1

15

CONTRACTOR SHALL ADD SPRINKLERS AS REQUIRED AROUND OBSTRUCTIONS SUCH AS DUCTWORK, UNIT HEATERS, EQUIPMENT, LIGHTS AND APPURTENANCES FOR COMPLETE COVERAGE IN ACCORDANCE WITH NFPA 13.

- AIR COMPRESSOR BY PLUMBING CONTRACTOR

FIRE DEPARTMENT SPRINKLER SYSTEM CONNECTION. COORDINATE EXACT LOCATION AND TYPE WITH FIRE DEPARTMENT CHIEF AND LOCAL AUTHORITY HAVING JURISDICTION.

- 6" SPRINKLER SERVICE BY SPRINKLER CONTRACTOR. RUN SERVICE 5'-0" BEYOND BUILDING. COORDINATE EXACT LOCATION AND DEPTH WITH SITE CONTRACTOR PRIOR TO INSTALLATION.

2" DOMESTIC WATER SERVICE BY PLUMBING CONTRACTOR. - 2" RPZ BACKFLOW PREVENTER BY PLUMBING CONTRACTOR VENDOR DELIVERY/PICK-UP

No. REVISION/SUBMISSION DATE nical/Electrical/Plumbing Enginee GERARD ASSOCIATES CONSULTING ENGINEERS, D.P.C. 223 MAIN STREET, GOSHEN NY 10924 TEL: (845) 291 1272 info@GerardAssociates.com www.GerardAssociates.com GA21063 uctural Enginee SZEWCZAK ASSOCIATES Consulting Engineers 200 Fisher Drive Avon, Connecticut phone 860.677.4570 fax 860.676.0814 Liscum McCormack VanVoorhis LLP ARCHITECTURE 181 CHURCH STREET POUGHKEEPSIE, NEW YORK 12601 PLANNING INTERIORS PHONE 845-452-2268 FAX 845-452-3752 PROJECT NEW FIRE STATION FOR ROMBOUT FIRE DISTRICT - STATION 2 NYS ROUTE 52, FISHKILL, NY DRAWING FIRE PROTECTION: PROPOSED FIRST FLOOR PLAN ROJECT NUMBER DRAWN BY RL/KC 18142 CHECKED BY JT/GH 11-30-22 DRAWING NUMBER **FP100** 

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13 14 

![](_page_61_Figure_0.jpeg)

![](_page_61_Picture_4.jpeg)

![](_page_62_Figure_0.jpeg)

![](_page_62_Figure_2.jpeg)

![](_page_62_Figure_6.jpeg)

- 8

![](_page_62_Figure_7.jpeg)

![](_page_62_Figure_8.jpeg)

![](_page_62_Figure_9.jpeg)

# SPRINKLER TEMPERATURE ZONES AT UNIT HEATERS NOT TO SCALE

TEST COCK #2 -TEST COCK #I ----

OS&Y GÁTE VALVE

![](_page_62_Picture_14.jpeg)

10 11 12

![](_page_62_Figure_16.jpeg)

REQUIRED CLEARANCES (DOUBLE CHI

- I. FRONT OF CHECKVALVE (2'-6") MINIMUN
- 2. BEHIND DOUBLE CHECKVALVE (12") MIN 3. BACKFLOW PREVENTER MINIMUM (2'-6")
- 4. BACKFLOW PREVENTER MAXIMUM (5'-0' 5. ABOVE DOUBLE CHECKVALVE (24") M
- 6. ABOVE BACKFLOW PREVENTER VALVE

# $\searrow$ SPRINKLER SYSTEM BACKFLOW PREV NOT TO SCALE

13

| ECKVALVE)                                                                                      | NEW FIRE STATION FOR<br>ROMBOUT FIRE DISTRICT - STATION 2<br>NYS ROUTE 52, FISHKILL, NY |
|------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------|
| M<br>NIMUM<br>) ABOVE FINISHED FLOOR<br>") ABOVE FINISHED FLOOR<br>"INIMUM<br>ES MINIMUM (12") | DRAWING<br>FIRE PROTECTION:<br>DETAILS                                                  |
|                                                                                                | SEAL DRAWN BY PROJECT NUMBER<br>RL/KC 18142                                             |
|                                                                                                | CHECKED BY DATE<br>JT/GH II-30-22                                                       |
| /ENTER                                                                                         | FP500                                                                                   |
|                                                                                                | FILE H:\2021\GA2106                                                                     |
| 14 15                                                                                          |                                                                                         |

PROJECT

![](_page_63_Figure_0.jpeg)

|                                                                                                                                                                                                                                                                       | -  F<br>-        |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------|
| No. REVISION/SUBMISSION DATE<br>Mechanical/Electrical/Plumbing Engineer<br><b>GERARD</b><br><b>ASSOCIATES</b><br><b>CONSULTING ENGINEERS, D.P.C.</b><br>223 MAIN STREET, GOSHEN NY 10924<br>TEL: (845) 291 1272<br>info@GerardAssociates.com www.GerardAssociates.com | E                |
| Structural Engineer<br>SZEWCZAK ASSOCIATES<br>CONSULTING ENGINEERS<br>200 Fisher Drive Avon, Connecticut<br>phone 860.677.4570 fax 860.676.0814                                                                                                                       | D                |
| ARCHITECTURE<br>PLANNING INTERIORS<br>Liscum<br>McCormack<br>VanVoorhis LLP<br>181 CHURCH STREET<br>POUGHKEEPSIE, NEW YORK 12601<br>PHONE 845-452-2268 FAX 845-452-3752                                                                                               | C                |
| PROJECT<br>NEW FIRE STATION FOR<br>ROMBOUT FIRE DISTRICT - STATION 2<br>NYS ROUTE 52, FISHKILL, NY<br>DRAWING<br>FIRE PROTECTION:<br>DETAILS                                                                                                                          | - -<br>- B       |
| SEAL DRAWN BY PROJECT NUMBER<br>RL/KC 18142<br>CHECKED BY DATE<br>JT/GH 11-30-22<br>DRAWING NUMBER<br>FP501                                                                                                                                                           | -<br>-<br>-<br>A |
| FILE H:\2021\GA2106                                                                                                                                                                                                                                                   | 3                |

G

![](_page_64_Figure_0.jpeg)

PROTECTION AND BUILDING CODE SECTION 1613 AND APPLICABLE PROVISIONS OF ASCE 7 (ARCHITECTURAL, MECHANICAL AND ELECTRICAL COMPONENT SEISMIC DESIGN SPRINKLER CONTRACTOR SHALL HIRE NYS LICENSED PROFESSIONAL ENGINEER TO DESIGN AND PREPARE SHOP DRAWINGS WITH CALCULATIONS FOR EACH PIPE SUPPORT, CONDUIT SUPPORT, MULTIPLE PIPE SUPPORT, TRAPEZE AND SEISMIC RESTRAINT. SUBMIT SHOP DRAWINGS WITH CALCULATIONS TO ENGINEER FOR RECORD AND TO LOCAL

![](_page_64_Figure_4.jpeg)

| BRACE<br>SPACING         | PIPE                        | ROD                            | MAX. ROD<br>LENGTH              | VERT.<br>HANGERS                                                                             | TRANSVERSE<br>HANGERS                                                                       | BOLT                            |
|--------------------------|-----------------------------|--------------------------------|---------------------------------|----------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------|---------------------------------|
| 40'<br>40'<br>40'<br>40' | 2½"<br>3"<br>4"<br>6"<br>8" | だ。<br>た。<br>多。。<br>34。<br>であ。。 | 25"<br>25"<br>3I"<br>37"<br>43" | 2 x 2 x l6ga<br>2 X 2 X l6ga | 2½" × 2½ × 16ga<br>2½" × 2½ × 16ga<br>2½" × 2½ × 16ga<br>2½" × 2½ × 16ga<br>2½" × 2½ × 16ga | 3%"<br>3%"<br>3%"<br>3%"<br>3%" |

|                           |                                                                                                                                                                                                                        |                                             | G |
|---------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------|---|
| No.                       | REVISION/SUBMISSION                                                                                                                                                                                                    | DATE                                        | F |
| chanical/                 | Felectrical/Plumbing Engineer<br><b>GERRARI<br/>ASSOCIATE</b><br><b>CONSULTING ENGINEERS, D.F</b><br>223 MAIN STREET, GOSHEN NY 10<br>TEL: (845) 291 1272<br>info@GerardAssociates.com www.GerardAssociates<br>GA21063 | <b>D</b><br><b>S</b><br><b>D</b> .C.<br>924 | E |
| SZ<br>CC<br>200 I<br>phor | ZEWCZAK ASSOC         DNSULTING       ENGINEERS         Fisher Drive       Avon, Connecticut         ne 860.677.4570       fax 860.676.0814                                                                            | IATES                                       | D |
| ARC                       | HITECTURE<br>ING INTERIORS<br>Liscum<br>MCCorm<br>VanVool<br>181 CHURCH STREET<br>POUGHKEEPSIE, NEW YORK<br>PHONE 845-452-2268 FAX                                                                                     | ack<br>his LLP                              | C |
| EM<br>ROM<br>IYS<br>RAWI  | FIRE STATION FOR<br>BOUT FIRE DISTRICT - ST<br>ROUTE 52, FISHKILL, NY<br>NG<br>FIRE PROTECTION<br>DETAILS                                                                                                              | ration 2<br>1:                              | В |
| AL                        | DRAWN BY PROJ<br>RL/KC<br>CHECKED BY DATE<br>JT/GH<br>DRAWING NUMBER                                                                                                                                                   | ect number<br> 8 42<br> -30-22              |   |
|                           | FP5                                                                                                                                                                                                                    | 502                                         | A |

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|---|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
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| - |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
|   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| - |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
|   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
|   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
|   | GENERAL SPRINKLER NOTES                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
|   | I. SPRINKLER CONTRACTOR SHALL FURNISH AND INSTALL A COMPLETE AND OPERATIVE AUTOMATIC FIRE PROTECTION<br>SPRINKLER SYSTEM, INCLUDING MAIN VALVES AND TIE-INS WITH FIRE ALARM SYSTEM AS NECESSARY TO COMPLY WITH NFPA                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
|   | 13 SPRINKLER STSTEM.<br>2. ALL SPRINKLER SYSTEM SHALL BE INSTALLED IN ACCORDANCE WITH 2020 FIRE PROTECTION CODE, BUILDING CODE,<br>PLUMBING CODE OF NEW YORK STATE, NATIONAL FIRE PROTECTION ASSOCIATION STANDARD 13, 72, AND ALL APPLICABLE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
|   | LOCAL CODES.<br>3. SPRINKLER CONTRACTOR SHALL FURNISH AND INSTALL ALL PIPING, VALVES, SPRINKLER HEADS, TESTS, HANGERS, FITTINGS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
|   | 4. SPRINKLER CONTRACTOR SHALL COORDINATE LOCATIONS OF ALL PIPING, SPRINKLER HEADS AND EQUIPMENT WITH OTHER                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
|   | PRIME CONTRACTORS TO AVOID CONFLICTS.<br>5. SPRINKLER CONTRACTOR SHALL SEAL AROUND ALL PIPE PENETRATIONS THROUGH FIRE RATED WALLS AND CEILINGS WITH                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
|   | 6. SPRINKLER CONTRACTOR SHALL GUARANTEE ALL WORKMANSHIP AND MATERIAL INSTALLED UNDER THIS CONTRACT FREE<br>FROM DEFECTS FOR A PERIOD OF ONE (I) YEAR FROM DATE OF SUBSTANTIAL COMPLETION AND ACCEPTANCE BY THE OWNER,                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
|   | AND AGREES TO REPLACE DEFECTIVE WORK AT NO ADDITIONAL COST TO OWNER DURING THE GUARANTEE PERIOD.<br>7. SPRINKLER CONTRACTOR SHALL SUBMIT SHOP DRAWINGS SHOWING ALL EQUIPMENT, SPRINKLER HEADS AND PIPING WITH<br>SIGNED & SEALED HYDRAULIC CALCULATIONS TO ENGINEER AND LOCAL EVEN FOR FOR APPROVAL PRIOR TO                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
|   | <ul> <li>8. DEMONSTRATE NEW SPRINKLER SYSTEM TO OWNER AND REVIEW MAINTENANCE PROCEDURES. SUBMIT (2) EQUIPMENT MANUALS</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
|   | TO ENGINEERS. PROVIDE CHROME PLATED ESCUTCHEON PLATES WHERE PIPES PASS THROUGH WALL, FLOORS, AND CEILINGS<br>IN FINISHED AREAS.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
|   | OF ALL PIPING IN WALLS, FLOORS AND CEILINGS.<br>IO. SPRINKLER CONTRACTOR SHALL PAY FOR ALL PERMITS AND INSPECTIONS FEES REQUIRED BY LOCAL AUTHORITY HAVING                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
|   | JURISDICTION.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
|   | 12. SPRINKLER CONTRACTOR IS RESPONSIBLE FOR CUTTING, PATCHING AND PAINTING ASSOCIATED WITH SPRINKLER WORK. SEE<br>ARCHITECT'S SPECIFICATIONS AND GENERAL CONDITIONS FOR APPROVED MATERIALS AND METHODS.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
|   | 13. EXACT LOCATION OF FIRE DEPARTMENT CONNECTION, TYPE AND SPRINKLER SYSTEM TEST/DRAIN SHALL BE APPROVED BY<br>LOCAL FIRE DEPARTMENT CHIEF, LOCAL FIRE INSPECTOR OR AUTHORITY HAVING JURISDICTION PRIOR TO INSTALLATION.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
|   | 14. SPRINKLER CONTRACTOR SHALL INSTALL ALL EQUIPPIENT IN ACCORDANCE WITH MANUACTURERS RECOMMENDATIONS AND OBSERVE ALL CLEARANCES.<br>15. ALL CONTROL WIRING SHALL BE IN ACCORDANCE WITH N.E.C. ELECTRICAL CODE AND ALL LOCAL CODES. ALL CONDUCTORS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
|   | SHALL BE COPPER. 120V/I - MINIMUM CONDUCTOR SIZE #12. 24V MINIMUM CONDUCTOR SIZE #18. SEE ELECTRICAL DRAWINGS<br>AND SPECIFICATIONS FOR APPROVED MATERIALS AND INSTALLATION METHODS.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
|   | 17. SPRINKLER CONTRACTOR SHALL CHAIN CONTROL VALVE IN THE OPEN POSITION.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
|   | 18. SPRINKLER CONTRACTOR SHALL FURNISH SHOP DRAWINGS INDICATING LOCATIONS OF ALL EQUIPMENT AND DEVICES. 19. SPRINKLER CONTRACTOR SHALL FURNISH & INSTALL SPRINKLER CABINET WITH MINIMUM SIX SPARE SPRINKLER HEADS AND<br>WRENCH. INCLUDE SEPARATE CABINET WITH SPRINKLERS AND WRENCH FOR EACH TYPE OF HEAD ON PROJECTION IN<br>ACCORDANCE WITH NFPA 13.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
|   | 20.SPRINKLER CONTRACTOR SHALL FURNISH & INSTALL KNOX BOX AND EXTERIOR INDICATING LIGHTS AS REQUIRED BY AUTHORITY HAVING JURISDICTION.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
|   | 21. SPRINKLER CONTRACTOR SHALL FURNISH COORDINATED SHOP DRAWINGS INDICATING LOCATIONS OF ALL EQUIPMENT AND<br>DEVICES INSTALLED IN CEILINGS. THESE DRAWINGS SHALL BE APPROVED BY ALL CONTRACTORS PRIOR TO INSTALLING ANY<br>EQUIPMENT IN CEILINGS. CONTRACTORS THAT DO NOT FOLLOW SHOP DRAWINGS SHALL BEAR ALL COSTS FOR RELOCATING<br>DEVICES AND EQUIPMENT IN CONFLICT WITH OTHER EQUIPMENT.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
|   | 22. SPRINKLER CONTRACTOR SHALL PROVIDE ACCESS DOORS FOR ALL VALVES CONCEALED IN INACCESSIBLE CEILINGS AND<br>WALLS. SEE ARCHITECTS SPECIFICATIONS FOR APPROVED MANUFACTURERS AND TYPES. ACCESS DOORS SHALL HAVE (I)<br>PRIME COAT AND (2) COATS OF FINISHED PAINT. COLOR AS DIRECTED BY ARCHITECT. ACCESS DOOR SHALL HAVE<br>APPROPRIATE FIRE RATING TO MAINTAIN INTEGRITY OF CEILING AND WALL.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
|   | 23. SPRINKLER CONTRACTOR MAY USE EXTENDED COVERAGE SPRINKLER HEADS WHERE PRESSURE AND FLOW PERMIT BASED ON<br>HYDRAULIC CALCULATIONS.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
|   | HYDRAULIC CALCULATIONS. COORDINATE SPRINKLER HEAD LOCATIONS WITH OTHER CONTRACTORS TO AVOID CONFLICTS.<br>RELOCATE SPRINKLER HEADS TO MEET FIELD CONDITIONS. SHOP DRAWINGS SHALL SHOW SPRINKLER PIPE SIZES, PIPE<br>HANGER REQUIREMENTS, FIRESTOPPING AND NECESSARY DETAILS REQUIRED FOR BUILDING DEPARTMENT AND INSURANCE<br>CARRIER APPROVAL. HYDRAULIC CALCULATIONS SHALL BE BASED ON RESIDUAL FLOW TEST PERFORMED BY THIS<br>CONTRACTOR. SUBMIT SHOP DRAWINGS WITH HYDRAULIC CALCULATION TO ENGINEER FOR APPROVAL. SHOP DRAWINGS THEN                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
|   | 25. WHEN INSTALLING SPRINKLER HEADS, THE SPRINKLER CONTRACTOR SHALL PROVIDE THE SHORTEST HYDRAULIC PIPE LENGTH<br>BETWEEN THE FINAL SPRINKLER HEAD LOCATION AND THE BRANCH LINE CONNECTION.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
|   | 26. SPRINKLER CONTRACTOR SHALL BE RESPONSIBLE FOR DRAINING AND FILLING THE NEW SYSTEM AS REQUIRED FOR COMPLETION OF WORK.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
|   | 27. PROVIDE (2) 21/2 GALLON PRESSURIZED WATER AND (1) 10 POUND ABC DRY CHEMICAL EXTINGUISHERS FOR EMERGENCY USE<br>DURING CONSTRUCTION.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| - | 28. SPRINKLER SYSTEM PIPING SHALL BE ALTERED AS NEEDED TO ACCOMMODATE CEILING HEIGHTS, DUCTWORK, LIGHTS AND<br>OTHER PIPING. PROVIDE ALL REQUIRED PIPING AND FITTINGS AS NEEDED TO OFFSET SPRINKLER SYSTEM TO AVOID<br>STRUCTURAL, ARCHITECTURAL, MECHANICAL AND ELECTRICAL INTERFERENCES, WHETHER SHOWN ON THE DRAWINGS OR NOT.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
|   | 29. SPRINKLER HEADS INSTALLED IN HUNG CEILING WILL BE POSITIONED WITH TOLERANCE OF ½" OF THE CENTERLINE OF THE<br>TILES. INSTALL SPRINKLER HEADS TIGHT TO THE BOTTOM OF THE HUNG CEILING, WITH CARE THAT THE FINISH IS NOT<br>DAMAGED. WHEN CONCEALED TYPE SPRINKLER HEADS ARE USED, THE COVER PLATES SHALL BE FLUSH WITH THE CEILING<br>PLANE, TOLERANCE GREATER THAN %" IS UNACCEPTABLE.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
|   | 30. SPRINKLER CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING START-UP OF ALL NEW EQUIPMENT, CONTROLS, AND ETC.<br>TO ENSURE CORRECT OPERATION OF INSTALLED DEVICES.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
|   | 31. SPRINKLER CONTRACTOR SHALL PROVIDE OWNER WITH CATALOG DATA, OPERATING INSTRUCTIONS, MAINTENANCE<br>INSTRUCTIONS, AND RECORD (AS-BUILT) DRAWINGS OF ALL COMPLETED WORK.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| - | <ul> <li>32. SPRINDLER CONTRACTOR SHALL PROVIDE ADDITIONAL SPRINKLER HEADS AROUND ALL OBSTRUCTIONS SUCH AS LIGHTS, EQUIPMENT, COLUMNS, AND ETC. AS REQUIRED TO PROVIDE COMPLETE COVERAGE IN ACCORDANCE WITH NFPA 13.</li> <li>33. ALL NEW HOLES IN WALLS AND FLOORS SHALL BE CORE DRILLED BY THIS CONTRACTOR. PRIOR TO CORE DRILLING FLOORS, RADAR SCAN FLOOR SLABS. USE CAUTION WHEN CORE DRILLING TO AVOID DAMAGE TO EQUIPMENT, SYSTEMS, CORDUCTIVE ADDITIONAL SPRINT OF CORE DRILLING TO AVOID DAMAGE TO EQUIPMENT, SYSTEMS, CONTRACTOR AND FLOOR SLABS. USE CAUTION WHEN CORE DRILLING TO AVOID DAMAGE TO EQUIPMENT, SYSTEMS, CONTRACTOR AND FLOOR SLABS. USE CAUTION WHEN CORE DRILLING TO AVOID DAMAGE TO EQUIPMENT, SYSTEMS, CONTRACTOR AND FLOOR SLABS. USE CAUTION WHEN CORE DRILLING TO AVOID DAMAGE TO EQUIPMENT, SYSTEMS, CONTRACTOR AND FLOOR SLABS. USE CAUTION WHEN CORE DRILLING TO AVOID DAMAGE TO EQUIPMENT, SYSTEMS, CONTRACTOR AND FLOOR SLABS. USE CAUTION WHEN CORE DRILLING TO AVOID DAMAGE TO EQUIPMENT, SYSTEMS, CONTRACTOR AND FLOOR SLABS. THE CONTRACTOR DRIVE TO AVOID DAMAGE TO EQUIPMENT, SYSTEMS, CONTRACTOR AND FLOOR SLABS. THE CONTRACTOR DRIVE TO AVOID DAMAGE TO EQUIPMENT, SYSTEMS, CONTRACTOR AND FLOOR SLABS. THE CONTRACTOR DRIVE TO AVOID DAMAGE TO EQUIPMENT, SYSTEMS, CONTRACTOR AND FLOOR SLABS. THE CONTRACTOR DRIVE TO AVOID DAMAGE TO EQUIPMENT, SYSTEMS, CONTRACTOR AND FLOOR SLABS.</li> </ul> |
|   | STRUCTURE AND ETC. ANT THEMS DAMAGED AS A RESULT OF CORE DRILLING SHALL BE REPAIRED BY THIS CONTRACTOR AT NO ADDITIONAL COST TO OWNER.<br>34. SPRINKLER CONTRACTOR SHALL PROVIDE ALL REQUIRED SIGNAGE FOR FIRE PROTECTION SYSTEM.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| - |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
|   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
|   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |

## SPRINKLER SYSTEM TESTS

- HYDROSTATIC 200 PSI FOR 2 HOURS WITHOUT LOSS OF PRESSURE.
- 2. SYSTEM OPERATIONAL TESTS WATER FLOW DETECTING DEVICES.
- 3. MAIN DRAIN VALVE STATIC AND RESIDUAL PRESSURES.
- SPRINKLER CONTRACTOR SHALL PERFORM ALL SPRINKLER SYSTEM TESTS REQUIRED BY LOCAL FIRE INSPECTOR OR AUTHORITY HAVING JURISDICTION.
- 5. ALL TESTS SHALL BE WITNESSED BY LOCAL FIRE INSPECTOR OR AUTHORITY HAVING JURISDICTION. SUBMIT REPORT ON ALL TESTS TO LOCAL FIRE INSPECTOR AND ENGINEER FOR APPROVAL.

| SPRINKLER SYSTEM REQUIREMENTS                                                                                                                                                 |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| OCCUPANCY CLASSIFICATIONS                                                                                                                                                     |
| I. NFPA 13 LIGHT HAZARD OCCUPANCY: OFFICE, DAY ROOM & MEETING                                                                                                                 |
| 2. NFPA 13 ORDINARY GROUP 1: BOILER ROOM, APPARATUS ROOM, KITCHEN AND STORAGE<br>AREAS.                                                                                       |
| WET SPRINKLER SERVICE REQUIREMENTS                                                                                                                                            |
| I. NFPA I3 ORDINARY HAZARD GROUP I:225 GPMA. MINIMUM WATER SUPPLY (I500 SQFT. x .I5 GPM/SQFT.)225 GPMB. TOTAL COMBINED INSIDE AND OUTSIDE HOSE STREAMS.250 GPMMINIMUM 475 GPM |
| FINAL FLOW BASED ON<br>APPROVED HYDRAULIC<br>CALCULATIONS                                                                                                                     |
| SPRINKLER SYSTEM REQUIREMENTS                                                                                                                                                 |
| I. MINIMUM PRESSURE AT SPRINKLER HEAD SHALL BE 7 PSI UNLESS                                                                                                                   |
| 2. FLOW VELOCITY IN PIPING SHALL NOT EXCEED 20 FPS.                                                                                                                           |
| 3. EQUIVALENT FITTING LENGTHS USED IN HYDRAULIC CALCULATIONS<br>SHALL BE IN ACCORDANCE WITH NEPA 13                                                                           |
| 4. LIGHT HAZARD MAXIMUM SPRINKLER HEAD PROTECTION AREA:                                                                                                                       |
| 5. ORDINARY GROUP I & II MAXIMUM SPRINKLER HEAD PROTECTION                                                                                                                    |
| AREA: 130 SQFT.<br>6. MAXIMUM FLOOR AREA PROTECTION LIMIT: LIGHT & ORDINARY<br>HAZARD 52,000 SQFT.                                                                            |
| CAMO STATIC WATER PRESSURE NYS ROUTE 52<br>STATIC: 140 PSI                                                                                                                    |
|                                                                                                                                                                               |

SPRINKLER CONTRACTOR SHALL HIRE INDEPENDENT COMPANY TO PERFORM RESIDUAL FLOW TEST ON MUNICIPAL WATER SYSTEM. SPRINKLER SYSTEM HYDRAULIC CALCULATIONS SHALL BE BASED ON FLOW TEST RESULTS.

|                |              | FIRE          | PROTECTION EQUIPMENT SCHEDULE                                                                                                                                                                   |
|----------------|--------------|---------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| SYMBOL         | MANUFACTURER | CATALOG #     | DESCRIPTION                                                                                                                                                                                     |
| И              | TYCO         | SERIES TY-FRB | SIDEWALL SPRINKLER, QUICK RESPONSE, K=5.6 - "INTERMEDIATE" TEMPERATURE CLASSIFICATION (175°F). RECESSED WHITE ESCUTCHEON PLATE.                                                                 |
| ⇔              | TYCO         | SERIES RFII   | CONCEALED PENDENT SPRINKLER, QUICK RESPONSE, K=5.6 -"ORDINARY" TEMPERATURE CLASSIFICATION (155°F). COLOR WHITE.                                                                                 |
| ⊛ <sub>A</sub> | TYCO         | SERIES TY-FRB | PENDENT SPRINKLER, RECESSED ESCUTCHEON, QUICK RESPONSE, K=5.6 -"INTERMEDIATE"<br>TEMPERATURE CLASSIFICATION (175°F). CHROME OR COLOR ESCUTCHEON AND SPRINKLER HEAD AS<br>DIRECTED BY ARCHITECT. |
| ⊛ <sub>B</sub> | TYCO         | SERIES TY-FRB | UPRIGHT/PENDANT SPRINKLER, QUICK RESPONSE, K=5.6 -"INTERMEDIATE" TEMPERATURE<br>CLASSIFICATION (175°F). NATURAL BRASS, CHROME OR COLOR AS DIRECTED BY OWNER. WITH<br>METAL WIRE GUARD           |
|                |              |               | SPRINKLER PIPING ABOVEGROUND, SCHEDULE 40 STEEL WITH SCREWED JOINTS UP TO 2" AND SCHEDULE 10 ABOVE 2" USE MECHANICAL GROOVE COUPLING.                                                           |
| DCV-1          | WATTS        | 774           | 6" DOUBLE CHECKVALVE ASSEMBLY WITH UL/FM APPROVED OS&Y SUPERVISED GATE VALVES.<br>APPROVED BY UNIVERSITY OF SOUTHERN CALIFORNIA.                                                                |
| NOTES:         |              |               |                                                                                                                                                                                                 |

- INTERACTION.

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I. SPRINKLER HEADS SHALL BE INSTALLED AS PER MANUFACTURER'S RECOMMENDATIONS.

2. PROVIDE METAL WIRE GUARDS WHERE SPRINKLERS ARE SUBJECT TO DAMAGE.

ALL HEAT GENERATING EQUIPMENT WHICH CAN AFFECT THE TEMPERATURE RATING OF THE SPRINKLER HEADS SHALL BE CLEARLY IDENTIFIED ON THE SHOP DRAWINGS. COORDINATE HEATING EQUIPMENT LOCATIONS WITH MECHANICAL PLANS.

4. SPRINKLER CONTRACTOR SHALL FURNISH & INSTALL SHIELDS ON SPRINKLERS THAT CANNOT BE SUFFICIENTLY SPACED TO AVOID DISCHARGE

5. FINAL K-FACTOR OF SPRINKLER HEADS BASED UPON HYDRAULIC CALCULATION REQUIREMENTS.

|                              |                                                     |                                                                         |                                                                                 |                                               |                      | _ |
|------------------------------|-----------------------------------------------------|-------------------------------------------------------------------------|---------------------------------------------------------------------------------|-----------------------------------------------|----------------------|---|
|                              |                                                     |                                                                         |                                                                                 |                                               |                      |   |
|                              |                                                     |                                                                         |                                                                                 |                                               |                      |   |
| No.                          | REVISI                                              | ON/SU                                                                   | JBMISSION                                                                       | 1                                             | DATE                 |   |
|                              | CONSUL<br>223 MAIN<br>info@GerardAs                 | <b>G</b><br><b>A</b><br><b>TING</b><br>STREE<br>TEL: (8<br>ssociates.cc | ERAN<br>SSOCIA<br>ENGINEERS<br>T, GOSHEN N<br>145) 291 1272<br>om www.GerardAss | RD<br>TES<br>, D.P.(<br>Y 1092<br>sociates.co | <b>C</b> . 24        |   |
| Structural Er                | ngineer                                             |                                                                         | GA21063                                                                         |                                               |                      | - |
| Sz<br>Cc<br>200 F<br>phon    | ZEWCZ<br>DNSULTIN<br>Fisher Drive<br>ae 860.677.457 | ZAI<br>JG I<br>70 fa                                                    | X ASSC<br>ENGINEEI<br>avon, Connect<br>ax 860.676.0814                          | DCI<br>RS<br>icut<br>4                        | <u>ATES</u>          |   |
|                              |                                                     | Lis                                                                     | cum                                                                             |                                               |                      |   |
|                              |                                                     | M                                                                       | cCor                                                                            | m                                             | ack                  |   |
| ш                            |                                                     | V                                                                       | anVo                                                                            | or                                            | his <sub>llp</sub>   | , |
| ARCH<br>PLANNII              | HITECTURE<br>NG INTERIORS                           | 181 CI<br>POUG<br>PHON                                                  | HURCH STREET<br>SHKEEPSIE, NEW<br>E 845-452-2268                                | YORK<br>Fax 84                                | 12601<br>45-452-3752 |   |
| PROJEC<br>NEM<br>ROME<br>NYS | T<br>FIRE STA<br>BOUT FIR<br>ROUTE 5                | 4TI <i>O</i> I<br>2 DI<br>2, FI                                         | N FOR<br>ISTRICT -<br>SHKILL, N                                                 | · ST/                                         | 4TI <i>O</i> N 2     | ) |
| DRAWI                        | IG<br>FIRE<br>EQUIF                                 | PR<br>MEN                                                               | COTECTI                                                                         | ON:<br>JLES                                   | 5                    |   |
| SEAL                         |                                                     |                                                                         | DRAWN BY<br>RI/KC                                                               | PROJEC                                        | TNUMBER              | _ |
|                              |                                                     |                                                                         | CHECKED BY                                                                      | DATE                                          | -30-22               |   |
|                              |                                                     |                                                                         | DRAWING NUMBE                                                                   |                                               |                      |   |
|                              |                                                     |                                                                         | FP                                                                              | 6                                             | 00                   |   |

![](_page_66_Figure_0.jpeg)

|     |                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 1      |
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| 5,  |                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | J      |
|     |                                       | (PICAL,<br>EE TRENCH DRAIN SANITARY/VENT PIPING SCHEMATIC<br>ETAIL #I ON DRAWING (P504)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |        |
| ) - |                                       | IPICAL, %" COPPER TYPE "K" PIPE CONNECTED TO<br>RENCH & FLOOR DRAIN TRAP PRIMER FITTING.<br>IR COMPRESSOR SUPPLIED BY OWNER. SEE DETAIL #9<br>N DRAWING (P501)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | -      |
|     |                                       | MPRESSED AIR OUTLET. SEE DETAIL #II ON DRAWING<br>1500)<br>17ICAL,<br>OILERS BY HAVC CONTRACTOR<br>-1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 3      |
|     | 6<br>D<br>C<br>SP<br>6<br>C<br>C<br>C | " DRAIN PIPE TO AREA DRAIN. SEE SITE UTILITY         RAWINGS         OUBLE CHECK VALVE (DCV-I) BY SPRINKLER         ONTRACTOR.         " SPRINKLER SERVICE BY SPRINKLER CONTRACTOR.         No.       REVISION/SUBMISSION         No.       REVISION/SUBMISSION         Mechanical/Electrical/Plumbing Engineer                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | F      |
| P   |                                       | <ul> <li>DOMESTIC WATER SERVICE BY PLUMBING<br/>ONTRACTOR. RUN SERVICE 5'-O" BEYOND BUILDING.</li> <li>OORDINATE EXACT LOCATION AND DEPTH WITH SITE<br/>ONTRACTOR PRIOR TO INSTALLATION.</li> <li>EDUCED PRESSURE ZONE VALVE (RPZ-I) BY PLUMBING<br/>ONTRACTOR. SEE DETAIL #7 ON DRAWING (P50I)</li> <li>ATER HEATER (WH-I). SEE DETAIL #5 ON DRAWING</li> <li>DRAWING (P50I)</li> <li>ATER HEATER (WH-I). SEE DETAIL #5 ON DRAWING</li> <li>BUCKED DRAWING (P50I)</li> <li>BUCKED DRAWING (P50I)</li></ul> | E      |
|     |                                       | TPICAL<br>OMPRESSED AIR/ELECTRIC HOSE REEL COMBO<br>AEHR-I). EXACT LOCATION AS DIRECTED BY FIRE<br>OMPANY<br>SZEWCZAK ASSOCIATES<br>CONSULTING ENGINEERS<br>200 Fisher Drive Avon, Connecticut<br>phone 860.677.4570 fax 860.676.0814                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | D      |
|     |                                       | ARCHITECTURE       Liscum         PLANNING INTERIORS       Liscum         McCormack       VanVoorhis         B1 CHURCH STREET       POUGHKEEPSIE, NEW YORK 12601         PLANNING INTERIORS       PHONE 845-452-2268                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 0      |
|     |                                       | PROJECT<br>NEW FIRE STATION FOR<br>ROMBOUT FIRE DISTRICT - STATION 2<br>NYS ROUTE 52, FISHKILL, NY<br>DRAWING<br>PLUMBING:<br>PROPOSED FIRST FLOOR PLAN                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | В      |
|     |                                       | SEAL DRAWN BY PROJECT NUMBER<br>RL/KC 18142<br>CHECKED BY DATE<br>JT/GH 11-30-22<br>DRAWING NUMBER<br>PIOO                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | -<br>A |

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![](_page_67_Figure_0.jpeg)

|                           |                                                                                                                                          |                        | G |
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|                           |                                                                                                                                          |                        |   |
|                           |                                                                                                                                          |                        |   |
|                           |                                                                                                                                          |                        | F |
|                           |                                                                                                                                          |                        |   |
| No.                       | REVISION/SUBMISSION                                                                                                                      | DATE                   |   |
|                           | CONSULTING ENGINEERS, D.P.<br>233 MAIN STREET, GOSHEN NY 10<br>TEL: (845) 291 1272<br>info@GerardAssociates.com www.GerardAssociates.com | <b>S</b><br>.C.<br>924 | E |
| ructural E                | GA21063<br>ngineer                                                                                                                       |                        |   |
| Sz<br>Cc<br>200 I<br>phor | ZEWCZAK ASSOC<br>DNSULTING<br>Fisher Drive<br>ne 860.677.4570<br>ENGINEERS<br>Avon, Connecticut<br>fax 860.676.0814                      | IATES                  | D |
|                           | Liscum                                                                                                                                   |                        |   |
|                           | McCorm                                                                                                                                   | ack                    | С |
| ARC                       | HITECTURE VORK                                                                                                                           | <b>TIS</b> LLP         |   |
|                           | T<br>T<br>FIRE STATION FOR                                                                                                               | 345-452-3752           |   |
| ROM<br>NYS                | BOUT FIRE DISTRICT - ST<br>ROUTE 52, FISHKILL, NY                                                                                        | ATION 2                |   |
| DRAWI                     | NG<br>PLUMBING:<br>PROPOSED MEZZANIN                                                                                                     | E                      | В |
| EAL                       | DRAWN BY<br>RL/KC<br>CHECKED BY DATE                                                                                                     | ect number<br>18142    | _ |
|                           | JT/GH I<br>DRAWING NUMBER                                                                                                                | -30-22                 |   |
|                           |                                                                                                                                          | 01                     | A |

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![](_page_68_Figure_0.jpeg)

![](_page_68_Figure_6.jpeg)

![](_page_69_Figure_0.jpeg)

![](_page_70_Figure_0.jpeg)

![](_page_70_Figure_1.jpeg)

MODEL # 559-3045 (HL45) TEMPERATURE RANGE (90-120° F)

11

WITH SPARE REPAIR CARTRIDGE

12

¾" DOMESTIC HOT ----WATER RECIRC. SYSTEM

S ==== R−115 F === A AQUASTAT —  $\neg \bowtie$ 16" COLD / WATER SUPPLY

PIPING STUB-OUTS FOR FUTURE WATER SOFTNER BY FIRE DEPARTMENT.

THERMAL EXPANSION TANK, AMTROL MODEL# ST-12 THERMAL EXPANSION TANK, AMTROL

MODEL# ST-12 TANK SENSOR CONNECTED TO THE -BOILER

TYPICAL HOUSEKEEPING PAD 4" THICK -CONCRETE WITH (WI.4 × WI.4) WIRE MESH (6" x 6"). PAD SHALL EXTEND 4" PAST WATER HEATER ON ALL SIDES.

🕆 WATER HEATER (WH-I) DETAIL NOT TO SCALE

|           | 40'    | 3"     |    |
|-----------|--------|--------|----|
|           | 40'    | 4"     |    |
|           | 40'    | 6"     |    |
|           | 40'    | 8"     |    |
| Ľ         |        |        |    |
| SVERSE SE | EISMIC | PIPE E | 31 |

![](_page_70_Figure_27.jpeg)

| No.                                                            | REVISI                                                                 | ON/SUE                                           | BMISSION                                                                                                                                               | 1                                           | DATE                                                                             | 3            |
|----------------------------------------------------------------|------------------------------------------------------------------------|--------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------|----------------------------------------------------------------------------------|--------------|
|                                                                | CONSUL<br>223 MAIN<br>info@GerardA                                     | LING EL<br>STREET,<br>TEL: (845<br>ssociates.com | ERAI<br>SOCIA<br>SOCIA<br>GOSHEN N<br>5) 291 1272<br>www.GerardAs:<br>21063                                                                            | RC<br>TES<br>, D.P.<br>IY 109<br>sociates.c | <b>S</b><br><b>C</b> .<br>24                                                     |              |
| Structural En                                                  | gineer                                                                 | GA                                               | 21063                                                                                                                                                  |                                             |                                                                                  |              |
| Sz<br>Co<br>200 F<br>phon                                      | ZEWC<br>NSULTIN<br>isher Drive<br>e 860.677.45                         | ZAK<br>NG E<br>70 fax                            | ASSC<br>NGINEE<br>on, Connect<br>860.676.081                                                                                                           | DCI<br>RS<br>icut<br>4                      | ATES                                                                             | 5            |
|                                                                |                                                                        | Lisc<br>Mc<br>Va                                 | cum<br>Cor                                                                                                                                             | m                                           | ack<br>his "                                                                     |              |
| ARCH<br>PLANNII                                                | IITECTURE                                                              | 181 CHU<br>POUGHI<br>PHONE 8                     | RCH STREET<br>KEEPSIE, NEW<br>345-452-2268                                                                                                             | YORK<br>FAX 8                               | 12601<br>45-452-3752                                                             | P            |
| ARCH<br>PLANNIN<br>PROJEC<br>NEW I<br>ROME<br>NYS I<br>DRAWIN  | IITECTURE<br>IG INTERIORS<br>FIRE STA<br>SOUT FIR<br>COUTE 5           | ATION<br>EDIS<br>2, FIS<br>DET                   | FOR<br>HKILL, N<br>BING:<br>AILS                                                                                                                       | YORK<br>FAX 8<br>- STA                      | ATION                                                                            | 2<br>2       |
| ARCH<br>PLANNIN<br>PROJECT<br>NEW I<br>ROME<br>NYS I<br>DRAWIN | ITECTURE<br>IG INTERIORS<br>F<br>FIRE STA<br>BOUT FIF<br>COUTE 5<br>IG | ATION<br>EDIS<br>2, FIS<br>DET                   | RCH STREET<br>(EEPSIE, NEW<br>345-452-2268<br>FOR<br>TRICT -<br>HKILL, N<br>BING:<br>AILS<br>DRAWN BY<br>RL/KC<br>CHECKED BY<br>JT/GH<br>DRAWING NUMBI | PROJEC                                      | T NUMBER<br>12601<br>45-452-3752<br><b>ATION</b><br>18142<br>-30-22<br><b>D2</b> | .P<br>2<br>2 |

![](_page_71_Figure_0.jpeg)

| WATT'S WATER HAMMER |                  |                            |  |  |
|---------------------|------------------|----------------------------|--|--|
| ARRESIORS           |                  |                            |  |  |
| NO. 15<br>SIZE      | FIXTURE<br>UNITS | CROSS REF. PDI<br>STANDARD |  |  |
| ½" MI               | 1–11             | A                          |  |  |
| ³⁄4" MI             | 12-32            | В                          |  |  |
| I" MI               | 33-60            | С                          |  |  |
| 14" MI              | 61-113           | D                          |  |  |
| И∕2" МІ             | 114-154          | E                          |  |  |
| 2" MI               | 155-330          | F                          |  |  |


| No. REVISION/SUBMISSION DATE                                                                                                                                           |   |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---|
| Mechanical/Electrical/Plumbing Engineer                                                                                                                                |   |
| STRUCTURAL Engineer<br>STRUCTURAL Engineer<br>SZEWCZAK ASSOCIATES<br>CONSULTING ENGINEERS<br>200 Fisher Drive Avon, Connecticut<br>phone 860.677.4570 fax 860.676.0814 | _ |
| ARCHITECTURE<br>PLANNING INTERIORS<br>Liscum<br>McCormack<br>VanVoorhis LLF<br>POUGHKEEPSIE, NEW YORK 12601<br>PHONE 845-452-2268 FAX 845-452-3752                     | D |
| PROJECT<br>NEW FIRE STATION FOR<br>ROMBOUT FIRE DISTRICT - STATION 2<br>NYS ROUTE 52, FISHKILL, NY<br>DRAWING<br>PLUMBING:<br>DETAILS                                  | 2 |
| SEAL DRAWN BY PROJECT NUMBER<br>RL/KC 18142<br>CHECKED BY DATE<br>JT/GH 11-30-22<br>DRAWING NUMBER<br>P504                                                             |   |

| L |                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
|---|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|   | PLUMBING NOTES:                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| _ | I. ALL PLUMBING WORK SHALL BE INSTALLED IN ACCORDANCE WITH 2020 PLUMBING, FIRE, MECHANICAL, FUEL GAS, BUILDING, ENERGY CONSERVATION CONSTRUCTION CODE OF NEW YORK STATE, ALL LOCAL CODES AND GENERALLY ACCEPTED STANDARDS.                                                                                                                                                                                                                               |
|   | 2. PLUMBING CONTRACTOR SHALL PROVIDE ALL FIXTURES, MIMING, VALVES, ACCESS DOORS, HANGERS, FITTINGS AND MISCELLANEOUS<br>COMPONENTS NOT NECESSARILY DETAILED ON THESE DRAWINGS TO RENDER THE PLUMBING SYSTEMS COMPLETE, OPERABLE, AND IN<br>ACCORDANCE WITH APPLICABLE CODES AND GENERALLY ACCEPTED INDUSTRY STANDARDS.                                                                                                                                   |
| к | 3. PLUMBING CONTRACTOR SHALL COORDINATE LOCATIONS OF ALL PIPING AND EQUIPMENT WITH OTHER TRADES TO AVOID CONFLICTS.<br>ROUGHING-IN DIMENSIONS OF FIXTURES MUST BE COORDINATED WITH GENERAL CONTRACTOR. SEE ARCHITECT'S DRAWINGS FOR EXACT<br>LOCATIONS AND ELEVATIONS OF PLUMBING FIXTURES.                                                                                                                                                              |
|   | 4. ALL PIPE OPENINGS THROUGH PARTITIONS, FLOORS AND CEILINGS SHALL HAVE PIPE SLEEVES. FOR PIPE PENETRATING FIRE RATED<br>PARTITIONS, CEILINGS AND FLOORS THE PLUMBING CONTRACTOR SHALL SEAL AROUND ALL PIPE PENETRATIONS WITH HILTI INTUMESCENT<br>FIRE STOP MATERIAL BETWEEN THE PIPE AND SLEEVE TO MAINTAIN FIRE AND SMOKE RATINGS.                                                                                                                    |
| _ | 5. PLUMBING CONTRACTOR SHALL PITCH ALL SANITARY PIPING UNDER 3" A MINIMUM OF ½" PER FOOT. SANITARY PIPING 3" AND ABOVE MAY<br>BE PITCHED A MINIMUM OF %" PER FOOT.                                                                                                                                                                                                                                                                                       |
|   | 6. PLUMBING CONTRACTOR SHALL GUARANTEE ALL WORKMANSHIP AND MATERIAL INSTALLED UNDER THIS CONTRACT FREE FROM DEFECTS<br>FOR A PERIOD OF ONE (I) YEAR FROM DATE OF SUBSTANTIAL COMPLETION AND ACCEPTANCE BY THE OWNER AND AGREES TO REPLACE<br>DEFECTIVE WORK (INCLUDING ALL REQUIRED LABOR AND MATERIAL) AT NO ADDITIONAL COST TO OWNER DURING THE GUARANTEE PERIOD                                                                                       |
| J | <ol> <li>PLUMBING CONTRACTOR SHALL SUBMIT SHOP DRAWINGS ON ALL EQUIPMENT, PIPING, INSULATION, VALVES AND PLUMBING FIXTURES TO<br/>OWNER AND ARCHITECT FOR APPROVAL. DEMONSTRATE NEW PLUMBING SYSTEMS TO OWNERS AND REVIEW MAINTENANCE PROCEDURES.</li> <li>PROVIDE CHROME PLATED ESCUTCHEON PLATES WHERE PIPES PASS THROUGH WALLS, FLOORS AND CEILINGS IN FINISHED AREAS.</li> </ol>                                                                     |
| _ | 9. PLUMBING CONTRACTOR SHALL COORDINATE FINAL LOCATIONS OF ALL PIPING IN FINISHED AREAS WITH GENERAL CONTRACTOR TO ENSURE<br>CONCEALMENT OF ALL PIPING IN WALLS, FLOORS, CEILINGS AND UNDER VANITIES. PIPING IN APPARATUS AND ANCILLARY AREAS MAY BE<br>SURFACE MOUNTED. COORDINATE WITH ARCHITECT.                                                                                                                                                      |
| I | IO. PLUMBING CONTRACTOR SHALL LOCATE ALL PIPING ON THE WARM SIDE OF BUILDING INSULATION ENVELOPE.<br>II. PLUMBING CONTRACTOR SHALL FURNISH AND INSTALL ALL CONTROL WIRING (24V) AND (120V) FOR SYSTEMS SHOWN ON PLUMBING<br>DRAWINGS AND TRANSFORMERS, CONDUIT, JUNCTION BOXES, CONDUCTORS, THERMOSTATS, APPURTENANCES AND ALL NECESSARY<br>EQUIPMENT TO MAKE SYSTEMS COMPLETE AND OPERABLE.                                                             |
|   | 12. ALL CONTROL WIRING SHALL BE IN ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE (LATEST ADOPTED ADDITION) AND ALL LOCAL<br>CODES. ALL CONDUCTORS SHALL BE COPPER WITH THHN INSULATION. 120V/1 - MINIMUM CONDUCTOR SIZE # 12. 24V - MINIMUM CONDUCTOR<br>SIZE # 18.                                                                                                                                                                                       |
| _ | 13. PLUMBING CONTRACTOR SHALL PAY FOR ALL PERMITS AND INSPECTIONS FEES REQUIRED BY LOCAL AUTHORITY HAVING JURISDICTION.                                                                                                                                                                                                                                                                                                                                  |
|   | 14. PLUMBING CONTRACTOR SHALL PROVIDE ACCESS DOORS FOR ALL VALVES CONCEALED IN WALLS/CEILINGS. ACCESS DOORS SHALL<br>HAVE APPROPRIATE FIRE RATING TO MAINTAIN INTEGRITY OF WALL/CEILING. ACCESS DOORS TO BE INSTALLED BY GENERAL<br>CONTRACTOR.                                                                                                                                                                                                          |
| н | 15. PLUMBING CONTRACTOR SHALL NOT DRILL OR CUT ANY STRUCTURAL MEMBERS WITHOUT PERMISSION OF ARCHITECT, OR STRUCTURAL<br>ENGINEER.                                                                                                                                                                                                                                                                                                                        |
|   | 16. PLUMBING CONTRACTOR IS RESPONSIBLE FOR INSULATING ALL DOMESTIC HOT, RECIRCULATION AND COLD WATER PIPING. SEE PLUMBING<br>INSULATION SCHEDULE ON THIS DRAWING.                                                                                                                                                                                                                                                                                        |
| _ | 17. ALL DOMESTIC WATER PIPING CONNECTIONS TO PLUMBING EQUIPMENT SHALL BE COPPER TYPE "L".<br>18. ALL NEW PIPES ARE TO BE SUPPORTED FROM STRUCTURE, NOT FROM OTHER PIPING OR DUCTWORK.                                                                                                                                                                                                                                                                    |
|   | 19. PLUMBING CONTRACTOR SHALL BE RESPONSIBLE FOR DRAINING AND REFILLING SYSTEMS AS REQUIRED FOR COMPLETION OF WORK.                                                                                                                                                                                                                                                                                                                                      |
| G | 20. CONNECTIONS TO UTILITIES AND SERVICES ARE SHOWN ACCORDING TO THE BEST INFORMATION AVAILABLE. THE PLUMBING CONTRACTOR<br>SHALL VERIFY THE EXACT LOCATIONS, INVERT ELEVATIONS, AND SIZES OF PLUMBING SERVICES IN FIELD, AND SHALL CONNECT NEW<br>PLUMBING SERVICES AS INDICATED ON DRAWINGS.                                                                                                                                                           |
| U | 21. PROVIDE DIELECTRIC FITTINGS OR COUPLINGS WHEREVER DISSIMILAR METALS ARE JOINED.<br>22. PROVIDE SHUTOFF VALVES AT ALL FIXTURES AND EQUIPMENT ON COLD WATER, HOT WATER, AND GAS SUPPLY PIPES.                                                                                                                                                                                                                                                          |
|   | 23. ALL WORK SHALL BE PROPERLY TESTED, BALANCED, AND CLEANED AND DISINFECTED. SUBMIT REPORT STATING COMPLETION.                                                                                                                                                                                                                                                                                                                                          |
| _ | 24. A CLEANOUT SHALL BE LOCATED AT ALL CHANGES IN DIRECTION AND AT THE BASE OF EACH STACK AND LEADER.<br>25. ALL MOTOR STARTERS AND DISCONNECT SWITCHES FOR PLUMBING EQUIPMENT SHALL BE FURNISHED BY THE PLUMBING CONTRACTOR AND                                                                                                                                                                                                                         |
|   | INSTALLED BY THE ELECTRICAL CONTRACTOR, UNLESS OTHERWISE NOTED. DISCONNECT SWITCHES FURNISHED BY THE PLUMBING<br>CONTRACTOR FOR PLUMBING EQUIPMENT SHALL BE HEAVY DUTY TYPE.<br>26 FIXTURE (GENERAL):                                                                                                                                                                                                                                                    |
| F | A. FIXTURE SHALL BE COMPLETE WITH REQUIRED TRIM, INCLUDING BUT NOT LIMITED TO: SUPPORTS, FAUCETS, SUPPLIES, STOP VALVES, I7<br>GAUGE WASTE TAILPIECES, TRAPS, SEATS, FLUSHOMETER, VACUUM BREAKER, BOLTS, GASKETS CHROME PLATED EXUTCHEONS, CAST<br>BRASS FLOOR FLANGE AND BOLT CAPS. ALL SCREWS SHALL BE VALDELPROOF.                                                                                                                                    |
|   | B. EXPOSED METAL TRIM AND ROUGHING SHALL BE CHROME PLATED NICKEL BRASS. CHROME PLATED CAST BRASS 'P' TRAPS WITH SCREW<br>PLUG CLEANOUT, SLIP-JOINT INLET AND FEMALE CAST SWIVEL THREADED ELBOW OUTLET. CHROME PLATED BRASS NIPPLE AT WALL<br>WITH CHROME PLATED ESCUTCHEON. SWING SPOUTS SHALL HAVE 140° SWING LIMIT STOPS.<br>29. PIPE TESTING:                                                                                                         |
| Е | A. UPON COMPLETION OF THE ENTIRE SANITARY DRAIN AND VENT SYSTEM, THE PLUMBING CONTRACTOR SHALL PERFORM AN AIR TEST<br>WITNESSED BY AUTHORITY HAVING JURISDICTION. AIR SHALL BE FORCED INTO THE SYSTEM UNTIL THERE IS A UNIFORM GAUGE<br>PRESSURE OF 5 PSI OR SUFFICIENT TO BALANCE A 10 INCH COLUMN OF MERCURY. THIS TEST SHALL BE HELD FOR A PERIOD OF AT<br>LEAST 15 MINUTES.                                                                          |
|   | B. WATER SUPPLY SYSTEM TEST SHALL BE DONE ON COMPLETION OF A SECTION OF OR THE ENTIRE WATER SUPPLY SYSTEM, THE SYSTEM,<br>OR THE PORTION COMPLETED, SHALL BE TESTED AND PROVED TIGHT UNDER A WATER PRESSURE NOT LESS THAN THE WORKING<br>PRESSURE OF THE SYSTEM: OR, BY AN AIR TEST OF NOT LESS THAN 50 PSI. TEST PRESSURE SHALL BE HELD FOR A MINIMUM OF IS<br>MINUTES. THE WATER UTILIZED FOR TESTS SHALL BE OBTAINED FROM A POTABLE SOURCE OF SUPPLY. |
| _ | C. REFER TO INTERNATIONAL PLUMBING CODE FOR ADDITIONAL TESTING REQUIREMENTS.                                                                                                                                                                                                                                                                                                                                                                             |
|   | A. ALL OPEN ENDS OF PIPING, VALVES AND EQUIPMENT SHALL BE PLUGGED EXCEPT WHEN ACTUAL WORK IS BEING PERFORMED, TO<br>MINIMIZE ACCUMULATION OF DIRT AND DEBRIS.                                                                                                                                                                                                                                                                                            |
| U | B. THE PLUMBING CONTRACTOR SHALL DISINFECT WATER PIPING BEFORE IT IS PLACED IN SERVICE. C. THE PLUMBING CONTRACTOR SHALL FURNISH ALL EQUIPMENT AND MATERIALS NECESSARY TO DO THE WORK OF DISINFECTING, AND SHALL PERFORM THE WORK IN ACCORDANCE WITH THE PROCEDURE OUTLINED IN THE AWWA C651 OR AWWA C652 OR AS DESCRIBED BELOW.                                                                                                                         |
| _ | D. SYSTEM OR PART THEREOF SHALL BE FILLED WITH A WATER/CHLORINE SOLUTION CONTAINING AT LEAST 50 PARTS PER MILLION OF<br>CHLORINE AND THE SYSTEM OR PART THEREOF SHALL BE ALLOWED TO STAND FOR 24 HOURS.                                                                                                                                                                                                                                                  |
|   | E. DURING THE DISINFECTION PERIOD, CARE SHALL BE EXERCISED TO PREVENT CONTAMINATION OF WATER IN THE STREET MAIN OR THE ACTIVE WATER PIPING WITHIN THE BUILDING.                                                                                                                                                                                                                                                                                          |
| С | F. FOLLOWING REQUIRED STANDING TIME, THE SYSTEM SHALL BE FLUSHED WITH CLEAN POTABLE WATER UNTIL THE CHLORINE IS PURGED<br>FROM THE SYSTEM.                                                                                                                                                                                                                                                                                                               |
|   | A. PLUMBING CONTRACTOR TO PROVIDE OPTI-CODE LABELS FOR ALL NEW PIPING. LABELS SHALL INDICATE SERVICE AND FLOW<br>DIRECTION. LETTERS AND ARROWS INDICATING FLOW SHALL BE 2 1/2" HIGH, PLACED EVERY 10' AND SHALL BE WHITE ON A GREEN                                                                                                                                                                                                                      |
| _ | BACKGROUND AND SHALL CONFORM TO ANSI AND OSHA STANDARDS. LABELS SHALL BE APPLIED OVER INSULATION ONLY.<br>B. VALVE SERVICE IDENTIFICATION TAGS: NUMBER 19 B&S GAGE BRASS, WITH 1/4" HIGH VALVE SERVICE ABBREVIATED LETTERING ON ONE                                                                                                                                                                                                                      |
|   | LINE OVER 1/2" HIGH VALVE SERVICE CHART NUMBER, BOTH DEEP STAMPED AND BLACK FILLED; AND WITH 3/16" TOP HOLE FOR BRASS<br>"S" HOOK OR BRASS JACK CHAIN FASTENER.                                                                                                                                                                                                                                                                                          |
| В | C. PROVIDE VALVE SERVICE IDENTIFICATION CHART MOUNTED IN LOCATION COORDINATED WITH OWNER'S REPRESENTATIVE. FRAME SHALL<br>BE SATIN FINISHED EXTRUDED ALUMINUM WITH RIGID CLEAR PLASTIC GLAZING, SIZE TO FIT 8-1/2" x 11" VALVE CHART.                                                                                                                                                                                                                    |
|   | D. EQUIPMENT SHALL HAVE S" HIGH BLACK LAMACUID NAME MLATES WITH WHITE ENGRAVED LETTERS PERMANENTLY FASTENED TO ALL<br>NEW EQUIPMENT.<br>32 PLUMBING CONTRACTOR GHALL BE REGRONGIRE FOR PROVIDING GTARTLIP OF ALL NEW FOURMENT CONTROLS AND FTG. TO FUCURE                                                                                                                                                                                                |
| _ | 33. PLUMBING CONTRACTOR SHALL PROVIDE OWNER WITH CATALOG DATA OPERATING INSTRUCTIONS MAINTENANCE INSTRUCTIONS AND                                                                                                                                                                                                                                                                                                                                        |
|   | RECORD (AS-BUILT) DRAWINGS OF ALL COMPLETED WORK.<br>34. PLUMBING CONTRACTOR IS RESPONSIBLE FOR COORDINATING ALL CUTTING, PATCHING, AND PAINTING ASSOCIATED WITH PLUMBING WORK                                                                                                                                                                                                                                                                           |
| А | WITH THE GENERAL CONTRACTOR, WHO SHALL PERFORM THE WORK AT PLUMBING CONTRACTORS COST. ALL FLOORS AND WALLS WHERE A<br>PIPE HAS BEEN REMOVED AND NOT REPLACED SHALL BE PATCHED BY THE GENERAL CONTRACTOR, PLUMBING CONTRACTOR SHALL<br>COORDINATE LOCATION AND PAY ALL COSTS.                                                                                                                                                                             |
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| PIPE HANGER SCHEDUL | E |
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| PIPE HANGER SCHEDULE                                                                                                                            |                                                                                                                                     |              |                   |                                          |            |             |                                    |                |              |               |              |
|-------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------|--------------|-------------------|------------------------------------------|------------|-------------|------------------------------------|----------------|--------------|---------------|--------------|
| PIPE                                                                                                                                            | MAXIMUM HORIZONTAL<br>SPACING (FEET)                                                                                                |              |                   | SINGLE STEEL ROD<br>HANGER SIZE (INCHES) |            | HANGER      | MAXIMUM VERTICAL<br>SPACING (FEET) |                |              |               |              |
| (INCHES)                                                                                                                                        | COPPER<br>TUBE                                                                                                                      | CAST<br>IRON | STEEL<br>PIPE     | CPVC<br>PIPE                             | TUBING     | PIPING      | STEEL                              | COPPER<br>TUBE | CAST<br>IRON | STEEL<br>PIPE | CPVC<br>PIPE |
| 1⁄2"                                                                                                                                            | 6                                                                                                                                   | 5            | 8 (5)             | 3                                        | 1/4"       | 3/8"        | BAND                               | 10             | 15           | 15            | 10           |
| <sup>3</sup> ⁄4"                                                                                                                                | 6                                                                                                                                   | 5            | 8 <sup>(5)</sup>  | 3                                        | 1/4"       | 3/8"        | BAND                               | 10             | 15           | 15            | 10           |
| 1"                                                                                                                                              | 6                                                                                                                                   | 5            | 8 <sup>(5)</sup>  | 3                                        | 1/4"       | 3/8"        | BAND                               | 10             | 15           | 15            | 10           |
| 1/4"                                                                                                                                            | 6                                                                                                                                   | 5            | q (5)             | 4                                        | 1/4"       | 3/8"        | CLEVIS                             | 10             | 15           | 15            | 10           |
| 1/2"                                                                                                                                            | 6                                                                                                                                   | 5            | q (5)             | 4                                        | 1/4"       | 3/8"        | CLEVIS                             | 10             | 15           | 15            | 10           |
| 2"                                                                                                                                              | 10                                                                                                                                  | 5            | 10 <sup>(5)</sup> | 4                                        | 1/4"       | 3/8"        | CLEVIS                             | 10             | 15           | 15            | 10           |
| 21/2"                                                                                                                                           | 10                                                                                                                                  | 5            | 12 <sup>(5)</sup> | 4                                        | 3⁄8"       | ½"          | CLEVIS                             | 10             | 15           | 15            | 10           |
| 3"                                                                                                                                              | 10                                                                                                                                  | 5            | 12 <sup>(5)</sup> | 4                                        | 3⁄8"       | 1/2"        | CLEVIS                             | 10             | 15           | 15            | 10           |
| 4"                                                                                                                                              | 10                                                                                                                                  | 5            | 12 <sup>(5)</sup> | 4                                        | 1/2"       | 5/8"        | CLEVIS                             | 10             | 15           | 15            | 10           |
| 5"                                                                                                                                              | 10                                                                                                                                  | 5            | 12 <sup>(5)</sup> | 4                                        | 1/2"       | 5/8"        | CLEVIS                             | 10             | 15           | 15            | 10           |
| 6"                                                                                                                                              | 10                                                                                                                                  | 5            | 12 <sup>(5)</sup> | 4                                        | 1/2"       | 3⁄4"        | CLEVIS                             | 10             | 15           | 15            | 10           |
| 8"                                                                                                                                              | 10                                                                                                                                  | 5            | 12 <sup>(5)</sup> | 4                                        | 5⁄8"       | 7⁄8"        | CLEVIS                             | 10             | 15           | 15            | 10           |
| 10"                                                                                                                                             | 10                                                                                                                                  | 5            | 12 <sup>(5)</sup> | 4                                        | 5/8"       | 7⁄8"        | CLEVIS                             | 10             | 15           | 15            | 10           |
| 12"                                                                                                                                             | 10                                                                                                                                  | 5            | 12 <sup>(5)</sup> | 4                                        | 5/8"       | 7⁄8"        | CLEVIS                             | 10             | 15           | 15            | 10           |
| NOTES:<br>I. MAXIMUM HORIZONTAL SPACING OF CAST-IRON PIPE HANGERS SHALL BE INCREASED TO 10<br>FEET WHERE 10 FOOT LENGTHS OF PIPE ARE INSTALLED. |                                                                                                                                     |              |                   |                                          |            |             |                                    |                |              |               |              |
| 2. INSTALL HANGER OR SUPPORT CLOSE TO THE POINT OF CHANGE OF DIRECTION IN ALL PIPE                                                              |                                                                                                                                     |              |                   |                                          |            |             |                                    |                |              |               |              |
| 3. INST<br>4. SUP                                                                                                                               | 3. INSTALL ADDITIONAL HANGERS ON SUPPORTS AT CONCENTRATED LOADS.<br>4. SUPPORT ALL BRANCH PIPING OVER 5'-0" IN LENGTH.              |              |                   |                                          |            |             |                                    |                |              |               |              |
| 5. <u>/</u> 5" (                                                                                                                                | SAS PIPIN                                                                                                                           | IG SHA       | LL BE             | SUPPOR                                   | RTED EVERY | 6'-0". 3" / | AND I" GAS                         | 5 PIPING       | SHALL        | BE            |              |
| 6. SUP                                                                                                                                          | SUPPORTED EVERY 8'-O". $V_4$ " AND LARGER GAS PIPING SHALL BE SUPPORTED EVERY 10'-O".<br>6. SUPPORT VERTICAL PIPING AT EVERY FLOOR. |              |                   |                                          |            |             |                                    |                |              |               |              |

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### CONTRACTOR CONNECT NEW

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### SERVICE WATER PIPING INSULATION -COMMERCIAL (THICKNESS IN INCHES)

PIPING ON RETURN CIRCULATION HOT WATER SYSTEMS SHALL BE INSULATED WITH I INCH OF INSULATION HAVING A CONDUCTIVITY NOT EXCEEDING 0.28 BTU PER INCH/H  $\times$  FT<sup>2</sup>  $\times$ °F (I.59 W PER 25 MM/M<sup>2</sup>  $\times$  K). THE FIRST 8 FEET OF PIPING IN NONCIRCULATING SYSTEMS SERVED BY EQUIPMENT WITHOUT INTEGRAL HEAT TRAPS SHALL BE INSULATED WITH 0.5 INCH OF MATERIAL HAVING A CONDUCTIVITY NOT EXCEEDING 0.28 BTU PER INCH/H  $\times$  FT<sup>2</sup>  $\times$  °F (I.59 W PER 25 MM/M<sup>2</sup>  $\times$  K).

|                     | PIPE HANG                                       | ER SCHED                    | ULE                  |
|---------------------|-------------------------------------------------|-----------------------------|----------------------|
| PIPE SIZE<br>INCHES | SPACING - FEET<br>SCHEDULE 40 PVC PIPE<br>WATER | ROD SIZE<br>STEEL<br>INCHES | HANGER<br>TYPE STEEL |
| 3⁄4                 | 4                                               | <i>У</i> 4"                 | CLEVIS HANGER        |
|                     | 4.5                                             | <i>1</i> /4"                | CLEVIS HANGER        |
| 1/4                 | 5                                               | <i>1</i> /4"                | CLEVIS HANGER        |
| 1/2                 | 5                                               | 36"                         | CLEVIS HANGER        |
| 2                   | 5                                               | 36"                         | CLEVIS HANGER        |
| 21/2                | 6                                               | 36"                         | CLEVIS HANGER        |
| 3                   | 6                                               | 36"                         | CLEVIS HANGER        |
| 4                   | 6.5                                             | 1/2"                        | CLEVIS HANGER        |

## PLUMBING PIPE INSULATION SCHEDULE

|                                                                           | -                  |                           |  |  |  |  |  |
|---------------------------------------------------------------------------|--------------------|---------------------------|--|--|--|--|--|
|                                                                           | INSULATION THIC    | CKNESS (INCHES)           |  |  |  |  |  |
| SERVICE                                                                   | PIPE SIZE (INCHES) |                           |  |  |  |  |  |
|                                                                           | BELOW 11/2"        | $1\frac{1}{2}$ " AND OVER |  |  |  |  |  |
| COLD WATER                                                                | 1/2"               | 1/2"                      |  |  |  |  |  |
| HOT WATER                                                                 | 1"                 | 11/2"                     |  |  |  |  |  |
| HOT WATER RECIRCULATION                                                   | 1"                 | 1½"                       |  |  |  |  |  |
| HORIZONTAL / VERTICAL<br>STORM PIPING                                     | 1"                 | ln                        |  |  |  |  |  |
| NOTES:                                                                    |                    |                           |  |  |  |  |  |
| I. PIPE COVERING SHALL BE FIBERGLASS PIPE INSULATION WITH: FIRE RETARDANT |                    |                           |  |  |  |  |  |

VAPOR BARRIER JACKET, 0.23 K-FACTOR AT 75°F MEAN TEMPERATURE, FLAME SPREAD = 25, SMOKE DEVELOPED = 50.
2. FITTINGS AND VALVES SHALL BE PROVIDED WITH PREMOLDED FITTING COVERS WITH PVC JACKETING OVAL IN THICKNESS AND MATERIAL TO ADJOINING PIPE INSULATION.

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| No.         REVISION/SUBMISSION         DATE                                                                                                                                                                                                                          |        |
| Reconnectly Electrically Funding Engineer<br><b>General General Science</b><br><b>CONSULTING ENGINEERS, D.P.C.</b><br>223 MAIN STREET, GOSHEN NY 10924<br>TEL: (845) 291 1272<br>info@GerardAssociates.com www.GerardAssociates.com<br>GA21063<br>Structural Engineer | E      |
| Szewczak associates<br>Consulting Engineers<br>200 Fisher Drive Avon, Connecticut<br>phone 860.677.4570 fax 860.676.0814                                                                                                                                              | D      |
| Liscum<br>McCormack<br>McCormack<br>VanVoorhis LLPARCHITECTURE<br>PLANNING INTERIORSARCHITECTURE<br>PLANNING INTERIORS                                                                                                                                                | С      |
| PROJECT<br>NEW FIRE STATION FOR<br>ROMBOUT FIRE DISTRICT - STATION 2<br>NYS ROUTE 52, FISHKILL, NY<br>DRAWING<br>PLUMBING:<br>EQUIPMENT SCHEDULES                                                                                                                     | В      |
| SEAL<br>DRAWN BY<br>RL/KC<br>I8142<br>CHECKED BY<br>JT/GH<br>II-30-22<br>DRAWING NUMBER<br>DLAN                                                                                                                                                                       | _<br>A |
| FILE H:\2021\GA21063                                                                                                                                                                                                                                                  |        |

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|         |                      |                       | PLUMBING EQUIPMENT SCHEDULE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
|---------|----------------------|-----------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| SYMBOL  | MANUFACTURER         | CATALOG #             | DESCRIPTION                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| s       |                      |                       | SANITARY PIPING, SCHEDULE 40 PVC, PVC FITTINGS WITH SOLVENT WELDED JOINTS BELOW GRADE. SCHEDULE 40 PVC WITH SOLVENT WELDED JOINTS 6" ABOVE GRADE.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| v       |                      |                       | VENT PIPING, SCHEDULE 40 PVC, PVC FITTINGS WITH SOLVENT WELDED JOINTS BELOW GRADE AND SCHEDULE 40 PVC WITH SOLVENT WELDED JOINTS 6" ABOVE GRADE.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| c       |                      |                       | DOMESTIC COLD WATER PIPING, COPPER TYPE "L" WITH LEADFREE SOLDER JOINTS ABOVE GRADE AND COPPER TYPE "K" FOR UNDERGROUND<br>PIPING 3" OR LESS. NO JOINTS PERMITTED BELOW GRADE. INSULATE UNDERGROUND WITH I" THICK ELASTOMERIC INSULATION. INSULATE ALL<br>ABOVE GROUND PIPING WITH ½" THICK FIBERGLASS PIPE INSULATION WITH VAPOR PROOF JACKET, TAPED JOINTS AND PVC FITTING COVERS.<br>EXPOSED PIPING IN FINISHED AREAS OR AS NOTED SHALL BE COVERED WITH PVC PIPE COVER AND PAINTED. (I) - COAT PRIMER, (2) COATS -<br>PAINT. COLOR AS DIRECTED BY ARCHITECT                                                                                                |
| — н ——  |                      |                       | DOMESTIC HOT WATER PIPING, COPPER TYPE "L" WITH LEADFREE SOLDER JOINTS ABOVE GRADE AND COPPER TYPE "K" FOR UNDERGROUND<br>PIPING. NO JOINTS PERMITTED BELOW GRADE. INSULATE UNDERGROUND PIPING UP TO 1 ½" DIA WITH I" AND PIPING ABOVE 1 ½" DIA USE 1 ½" THICH<br>ELASTOMERIC INSULATION. INSULATE ALL ABOVE GROUND PIPING UP TO 1 ½" DIA WITH I" AND PIPING ABOVE 1 ½" DIA USE 1 ½" THICK FIBERGLASS<br>PIPE INSULATION WITH VAPOR PROOF JACKET, TAPED JOINTS AND PVC FITTING COVERS. EXPOSED PIPING IN FINISHED AREAS OR AS NOTED<br>SHALL BE COVERED WITH PVC PIPE COVER AND PAINTED. (I) - COAT PRIMER, (2) COATS - PAINT. COLOR AS DIRECTED BY ARCHITECT |
| R       |                      |                       | DOMESTIC HOT WATER RECIRCULATION PIPING, COPPER TYPE "L" WITH LEADFREE SOLDER JOINTS ABOVE GRADE AND COPPER TYPE "K" FOR<br>UNDERGROUND PIPING. NO JOINTS PERMITTED BELOW GRADE. INSULATE UNDERGROUND PIPING UP TO 1 ½" DIA WITH I" AND PIPING ABOVE 1 ½" DI,<br>USE 1 ½" THICK ELASTOMERIC INSULATION. INSULATE ALL ABOVE GROUND PIPING UP TO 1 ½" DIA WITH I" AND PIPING ABOVE 1 ½" DIA<br>FIBERGLASS PIPE INSULATION WITH VAPOR PROOF JACKET, TAPED JOINTS AND PVC FITTING COVERS. EXPOSED PIPING IN FINISHED AREAS OR<br>AS NOTED SHALL BE COVERED WITH PVC PIPE COVER AND PAINTED. (1) - COAT PRIMER, (2) COATS - PAINT. COLOR AS DIRECTED BY ARCHITEC   |
| CW      |                      |                       | DOMESTIC WATER SERVICE PIPING, COPPER TYPE "L" WITH LEADFREE SOLDER JOINTS ABOVE GRADE AND COPPER TYPE "K" FOR UNDERGROUND<br>PIPING DUCTILE IRON PIPE: AWWA CI5I, FITTINGS: DUCTILE IRON, STANDARD THICKNESS, JOINTS: AWWA CIII, RUBBER GASKET WITH ¾ INCH<br>DIAMETER RODS. INSULATE ALL ABOVE GROUND PIPING WITH ½" THICK FIBERGLASS PIPE INSULATION WITH VAPOR PROOF JACKET, TAPED JOINTS<br>AND PVC FITTING COVERS.                                                                                                                                                                                                                                      |
| TF      |                      |                       | TRUCKFILL WATER PIPING, COPPER TYPE "L" WITH LEAD FREE SOLDER JOINTS ABOVE GRADE. INSULATE ALL PIPING WITH ½" THICK FIBERGLASS<br>PIPE INSULATION WITH VAPOR PROOF JACKET, TAPED JOINTS AND PVC FITTING COVERS. EXPOSED PIPING IN FINISHED AREAS OR AS NOTED<br>SHALL BE COVERED WITH PVC PIPE COVER AND PAINTED. (1) - COAT PRIMER, (2) COATS - PAINT. COLOR AS DIRECTED BY ARCHITECT                                                                                                                                                                                                                                                                        |
| CA      |                      |                       | COMPRESSED AIR PIPING, SCHEDULE 40 GALVANIZED STEEL WITH SCREWED JOINTS AND FITTINGS AI20 STANDARD WEIGHT.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| –<br>CA |                      |                       | COMPRESSED AIR QUICK DISCONNECT FITTING. COORDINATE EXACT SIZE AND TYPE WITH FIRE DEPARTMENT.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| ⊠<br>TF |                      |                       | TRUCK FILL 2" BALL VALVE WITH I ½" HOSE ADAPTER FITTING, CAP & CHAIN AS APPROVED BY FIRE DEPARTMENT PRIOR TO INSTALLATION.<br>FURNISH & INSTALL WALL HOSE RACK TO HOLD MAXIMUM 75 FEET OF I ½" HOSE ADJACENT TO TRUCK FILL. EXACT HEIGHT AND LOCATION AS<br>APPROVED BY FIRE DEPARTMENT PRIOR TO INSTALLATION.                                                                                                                                                                                                                                                                                                                                                |
| X       | NIBCO                |                       | BALL VALVE, BRONZE BODY, FULL PORT.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| _υ      |                      |                       | TRAP                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
|         | HANNY                | 818-25-26B            | WATER HOSE REEL, HEAVY-DUTY SERIES 800, 3/4" ID HOSE - 70 FEET LENGTH FLEX TROL, 1000 PSI, 3/4" HOSE CONNECTION WITH MOUNTING<br>BRACKETS, HOSE INLET KIT, HOSE STOP KIT AND NOZZLE (AS SELECTED BY FIRE COMPANY). EXACT LOCATION AND MOUNTING HEIGHT AS<br>DIRECTED BY ARCHITECT.                                                                                                                                                                                                                                                                                                                                                                            |
| HR-1    | T¢S<br>BRASS         | MV-0771-12N-BV        | WASHDOWN STATION $\frac{3}{4}$ " HOT & COLD WITH CHECKVALVES, BALL VALVES, STAINLESS STEEL HOSE RACK, $\frac{3}{4}$ " OUTLET HOSE CONNECTION.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| CAHR-1  | HANNY                | N716-19-20-10.5J      | COMPRESSED AIR HOSE REEL, HEAVY-DUTY SERIES N700, ¾" ID HOSE - 50 FEET LENGTH, 3000 PSI, ½" HOSE CONNECTION WITH MOUNTING<br>BRACKETS, HOSE INLET KIT, HOSE STOP KIT AND QUICK DISCONNECT AIR FITTING (AS SELECTED BY FIRE COMPANY). EXACT LOCATION AND<br>MOUNTING HEIGHT AS DIRECTED BY ARCHITECT.                                                                                                                                                                                                                                                                                                                                                          |
| ₽ SA    | ZURN                 | Z-I700<br>SERIES      | WATER HAMMER ARRESTER, STAINLESS STEEL CONSTRUCTION, PRESSURIZED COMPRESSION CHAMBER, COMPLIANT WITH PDI STANDARD WH-201.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| WC-1    | AMERICAN<br>STANDARD | 3043.001              | MADERA RIGHT HEIGHT EL 1.28 ELONGATED FLUSH VALVE TOILET. VITREOUS CHINA, DIRECT-FED SIPHON JET, 1/2" TOP SPUD INLET, OPEN FRONT<br>SEAT WITH COVER. COLOR AS DIRECTED BY ARCHITECT. INSTALL IN ACCORDANCE WITH ANSI AII7.I AND ADA STANDARDS FOR HANDICAP<br>ACCESSIBILITY. COLOR BY ARCHITECT.                                                                                                                                                                                                                                                                                                                                                              |
|         | SLOAN                | III-1.28 ES-S         | EXPOSED SENSOR OPERATED WATER CLOSET FLUSHOMETER, LOW CONSUMPTION (1.28 GPF) WITH EL-154 TRANSFORMER (120 VAC / 24 VAC).                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
|         | AMERICAN<br>STANDARD | 6509.001              | WASHBROOK URINAL CONSTRUCTED OF VITREOUS CHINA, TOP SPUD LOW CONSUMPTION (0.5 GPF). COLOR AS DIRECTED BY ARCHITECT.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| UK-1    | SLOAN                | 186-0.5 ES-S          | EXPOSED SENSOR OPERATED URINAL FLUSHOMETER, LOW CONSUMPTION (0.5 GPF) WITH EL-154 TRANSFORMER (120 VAC / 24 VAC).                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
|         | AMERICAN<br>STANDARD | 0355.012              | LUCERNE WALL HUNG LAVATORY VITREOUS CHINA, 4" CENTERS FAUCET HOLES, FLOOR MOUNTED CONCEALED ARM SUPPORT CARRIER, CHROME<br>OFFSET GRID DRAIN WITH OVERFLOW AND 17 GAUGE TRAP, CHROME WATER SUPPLIES AND KEY OPERATED STOPS, IPS TRUEBRO LAV GUARD<br>INSULATION KIT. INSTALL IN ACCORDANCE WITH ANSI AII7.1 AND ADA STANDARDS FOR HANDICAP ACCESSIBILITY.                                                                                                                                                                                                                                                                                                     |
| L-1     | ZURN                 | Z1231                 | CONCEALED ARM SUPPORT CARRIER FOR WALL LAVATORIES.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
|         | SLOAN                | ETF-600               | OPTIMA ELECTRONIC HAND WASHING FAUCET 0.5 GPM VANDAL RESISTANT SPRAY HEAD. SENSOR ACTIVATED WITH 4" DECK PLATE, SOLID<br>BRASS SOLENOID, PLUG-IN TRANSFORMER 120 VAC / 12 VDC. THERMOSTATIC MIXING VALVE, KEY OPERATED STOPS, 17 GAUGE P-TRAP<br>W/CLEANOUT AND GRID STRAINER. INSTALL IN ACCORDANCE WITH ANSI A117.1 AND ADA STANDARDS FOR HANDICAP ACCESSIBILITY - 120<br>VAC/24 VAC.                                                                                                                                                                                                                                                                       |
|         | AMERICAN<br>STANDARD | 0476.028              | AQUALYN COUNTERTOP LAVATORY VITREOUS CHINA, 4" CENTERS FAUCET HOLES, CHROME OFFSET GRID DRAIN WITH OVERFLOW AND 17 GAUGE<br>TRAP, CHROME WATER SUPPLIES AND KEY OPERATED STOPS, IPS TRUEBRO LAV GUARD INSULATION KIT. INSTALL IN ACCORDANCE WITH ANSI<br>AII7.I AND ADA STANDARDS FOR HANDICAP ACCESSIBILITY.                                                                                                                                                                                                                                                                                                                                                 |
| L-2     | SLOAN                | ETF-600               | OPTIMA ELECTRONIC HAND WASHING FAUCET 0.5 GPM VANDAL RESISTANT SPRAY HEAD. SENSOR ACTIVATED WITH 4" DECK PLATE, SOLID<br>BRASS SOLENOID, PLUG-IN TRANSFORMER 120 VAC / 12 VDC. THERMOSTATIC MIXING VALVE, KEY OPERATED STOPS, 17 GAUGE P-TRAP<br>W/CLEANOUT AND GRID STRAINER. INSTALL IN ACCORDANCE WITH ANSI AII7.1 AND ADA STANDARDS FOR HANDICAP ACCESSIBILITY - 120<br>VAC/24 VAC.                                                                                                                                                                                                                                                                       |
| SH-1    | SYMMONS              | SAFETYMIX<br>I-II7-FS | SHOWER VALVE, PRESSURE BALANCING, LEVERTROL LEVER DIVERTER, SUPER SHOWER HEAD, FSB HAND SPRAY UNIT WITH 60" FLEXIBLE HOSE, 30<br>SLIDE BAR, WALL CONNECTION, IN-LINE VACUUM BREAKER, INTEGRAL STOPS, 2.0 GPM RESTRICTOR, LEVER HANDLE CONTROL, ADA COMPLIANT.<br>INSTALL IN ACCORDANCE WITH ANSI AII7.I AND ADA STANDARDS FOR HANDICAP ACCESSIBILITY. SEE ARCHITECTURAL DRAWINGS                                                                                                                                                                                                                                                                              |
|         | ZURN                 | 415                   | FLOOR DRAIN, DURA COATED, 5" x 5" SQUARE NICKEL BRONZE TYPE "S" STRAINER, 2" OUTLET.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
|         | ZURN                 | 415                   | FLOOR DRAIN, DURA COATED, 6" × 6" SQUARE NICKEL BRONZE TYPE "S" STRAINER, 3" OUTLET.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| FD-1    | PROSET               | TRAP GUARD            | TRAP GUARD FOR EMERGENCY FLOOR                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| TD-1    | JAY R SMITH          | 2710 SERIES           | TRENCH DRAIN, DUCO CAST IRON COATED, (12" x 12") 3 - SECTIONS, END PLATES WITH HEAVY DUTY DUCTILE IRON GRATE - M. EPOXY COATED COLOR AS DIRECTED BY ARCHITECT. SEDIMENT BUCKET. 4" OUTLET.                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| EW-1    | GIADDIAN             | 61814                 | WALL MOUNT EMERGENCY EYE WASH. STAINLESS STEEL BOWL, TWO GS-PLUS SPRAY HEADS WITH STAINLESS STEEL BOWL COVER (BC). ½" NPT<br>SUPPLY AND 1/4" NPT DRAIN WITH ELBOW AND PIPE EXTENDED 6" ABOVE APPARATUS ROOM FLOOR. FC20 REGULATES EACH SPRAY HEAD FLOM<br>TO 1.6 GPM. INSTALL IN ACCORDANCE WITH ANSI AIIT.I AND ADA STANDARDS FOR HANDICAP ACCESSIBILITY.                                                                                                                                                                                                                                                                                                    |
| <b></b> |                      |                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |

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|          |              |                        | PLUMBING EQUIPMENT SCHEDU                                                                                                                                                            |
|----------|--------------|------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| SYMBOL   | MANUFACTURER | CATALOG #              | DESCRI                                                                                                                                                                               |
|          | AMERICAN     | 7695.000               | AKRON SERVICE SINK, ENAMELED CAST IRON, WITH WALL HANGER<br>ARCHITECT.                                                                                                               |
| 55-1     | STANDARD     | 8344.112               | EXPOSED YOKE WALL MOUNTED UTILITY FAUCET WITH METAL HANI                                                                                                                             |
| DF-1     | ELKAY        | EHWM217C               | TWO LEVEL SOFT SIDES HEAVY DUTY STAINLESS STEEL DRINKING<br>ACCORDANCE WITH ANSI A117.1 AND ADA STANDARDS FOR HAND                                                                   |
| NFHB-1   | WOODFORD     | 67                     | 3/4" WALL HYDRANT NON-FREEZE, SELF-DRAINING, VANDAL RESIS                                                                                                                            |
| C.O.     |              |                        | CLEANOUT                                                                                                                                                                             |
| F.C.O.   |              |                        | FLOOR CLEANOUT PEDESTRIAN TRAFFIC SEE DETAIL #7 ON DRAN                                                                                                                              |
| F.C.O1   |              |                        | FLOOR CLEANOUT VEHICLE/TRUCK TRAFFIC (SEE DETAIL #4 ON D                                                                                                                             |
| W.C.O.   |              |                        | WALL CLEANOUT SEE DETAIL #5 ON DRAWING (P500)                                                                                                                                        |
| EX.C.O.  |              |                        | EXTERIOR CLEANOUT SEE DETAIL #3 ON DRAWING (P500)                                                                                                                                    |
| TPU-1    | MIFAB        | MI-300-625<br>-120     | ELECTRONIC TRAP SEAL PRIMER SYSTEM WITH ENCLOSURE, AIR $\epsilon$ (MI-DI-625) WITH (5) $\%$ " PIPE CONNECTIONS, CAP UNUSED PIPE CO                                                   |
| TP-1     | MIFAB        | M-500, MI-DU<br>MI-GAP | TRAP SEAL PRIMER WITH DISTRIBUTION UNIT TO SERVE UP TO FOU                                                                                                                           |
| WB-1     | OATEY        | I2K                    | WALL BOX WITH BRASS VALVE & COPPER CONNECTION.                                                                                                                                       |
| EW-1     | GUARDIAN     | 61814                  | WALL MOUNT EMERGENCY EYE WASH. STAINLESS STEEL BOWL, TW<br>SUPPLY AND 说" NPT DRAIN WITH ELBOW AND PIPE EXTENDED 6" /<br>TO 1.6 GPM. INSTALL IN ACCORDANCE WITH ANSI A117.1 AND ADA S |
|          |              | 63600LF TMV            | EMERGENCY EYE WASH MIXING VALVE, FACTORY SET TO 85°F, HIC<br>WILL CLOSE DOWN ON FAILURE OF COLD WATER. SPECIAL INTERI                                                                |
| WH-1     | VISESSMANN   | 300 ∨ EVIB-79          | VITOCELL INDIRECT WATER HEATER, 79 GAL. STORAGE, RECOVER                                                                                                                             |
| ST-1     | AMTROL       | ST-I2V                 | THERM-X-TROL DOMESTIC HOT WATER SYSTEM THERMAL EXPANS                                                                                                                                |
| P-1      | GRUNDFOS     | UP 15-42B7             | DOMESTIC HOT WATER RECIRCULATION PUMP, BRONZE BODY WITH                                                                                                                              |
| ID_1     |              |                        | INDIRECT WASTE FUNNEL DRAIN PVC. 2" OUTLET.                                                                                                                                          |
| ו-עו<br> | RECTORSEAL   | 97046                  | SURESEAL PLUS 2" DRAIN TRAP SEAL/CHECK VALVE.                                                                                                                                        |
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# HEDULE CONT'

DESCRIPTION

HANGER, RIM GUARD, 3" CAST IRON P-TRAP AND CLEANOUT. COLOR AS DIRECTED BY

TAL HANDLES, VACUUM BREAKER, TOP BRACE AND INTEGRAL STOPS.

RINKING FOUNTAIN WITH WALL PLATE, INTEGRAL P-TRAP, BOTTOM PLATES. INSTALL IN R HANDICAP ACCESSIBILITY. FIXTURE AS SELECTED BY OWNER

AL RESISTANT INTEGRAL VACUUM BREAKER, KEY OPERATED, CHROME FINISH.

ON DRAWING (P500)

#4 ON DRAWING (P500)

E, AIR GAP, SOLENOID VALVE, ADJUSTABLE TIMER AND MI-DU DISTRIBUTION UNIT PIPE CONNECTIONS - 120V/I. MOUNT UNIT AS DIRECTED IN FIELD BY ARCHITECT

TO FOUR (4) FLOOR DRAINS AND AIR GAP FITTING (MI-GAP).

OWL, TWO GS-PLUS SPRAY HEADS WITH STAINLESS STEEL BOWL COVER (BC). ½" NPT DED 6" ABOVE APPARATUS ROOM FLOOR. FC20 REGULATES EACH SPRAY HEAD FLOW ADA STANDARDS FOR HANDICAP ACCESSIBILITY.

85°F, HIGH TEMPERATURE LIMIT SET TO 90°F, 3.5 GPM @ 15 PSI DROP. MIXING VALVE L INTERNAL COLD WATER BYPASS. COMPLIANCE WITH ANSI Z 358.1

ECOVERY: 236 GPH @ 90° RISE INPUT: 177 MBH @ 13.2 GPM (MIN). 194°F E.W.T.

EXPANSION TANK, MAXIMUM WORKING PRESSURE 150 (PSIG)

DY WITH AQUASTAT AND "UP" TIMER. 8 GPM @ 10 FEET OF HEAD 1/25 HP - 120V/I





|               | L-6<br>√ <del></del> |                                                                                                                                                        |                                                                                                                                                                                      |    |
|---------------|----------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----|
|               |                      |                                                                                                                                                        |                                                                                                                                                                                      | G  |
|               |                      | - TYPICAL<br>BOILER FLUE AND VENT PIPING. SEE DETAIL #2<br>ON DRAWING (M506)                                                                           |                                                                                                                                                                                      |    |
|               |                      | - DOUBLE CHECK VALVE (DCV-I) BY SPRINKLER<br>CONTRACTOR.                                                                                               |                                                                                                                                                                                      | F  |
|               |                      | - 6" SPRINKLER SERVICE BY SPRINKLER<br>CONTRACTOR.                                                                                                     | No.     REVISION/SUBMISSION     DATE                                                                                                                                                 |    |
| •<br>-1-<br>- |                      | <ul> <li>- 2" DOMESTIC WATER SERVICE BY PLUMBING<br/>CONTRACTOR.</li> <li>- REDUCED PRESSURE ZONE VALVE (RPZ-I) BY<br/>PLUMBING CONTRACTOR.</li> </ul> | Mechanical/Electrical/Plumbing Engineer                                                                                                                                              | E  |
|               |                      |                                                                                                                                                        | Structural Engineer                                                                                                                                                                  | D  |
|               |                      |                                                                                                                                                        | ARCHITECTURE<br>PLANNING INTERIORS<br>Liscum<br>McCormack<br>McCormack<br>VanVoorhis LLP<br>181 CHURCH STREET<br>POUGHKEEPSIE, NEW YORK 12601<br>PHONE 845-452-2268 FAX 845-452-3752 | C  |
|               |                      |                                                                                                                                                        | PROJECT<br>NEW FIRE STATION FOR<br>ROMBOUT FIRE DISTRICT - STATION 2<br>NYS ROUTE 52, FISHKILL, NY<br>DRAWING<br>MECHANICAL:<br>PROPOSED FIRST FLOOR PLAN                            | -B |
|               |                      |                                                                                                                                                        | SEAL DRAWN BY PROJECT NUMBER<br>RL/KC 18142<br>CHECKED BY DATE<br>JT/GH 11-30-22                                                                                                     |    |
|               |                      |                                                                                                                                                        | DRAWING NUMBER<br>MIOO                                                                                                                                                               | A  |

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TYPICAL, CARBON MONOXIDE (CO)/NITROGEN DIOXIDE  $(NO_2)$  SENSOR CONNECTED TO MULTI GAS DETECTION AND CONTROL SYSTEM.



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|                                                                                                                                                                                                                      |   |
|                                                                                                                                                                                                                      | G |
| - 6" BOILER FLUE PIPE UP THROUGH<br>ROOF WITH FLASHING. EXACT<br>LOCATION AND COLOR AS DIRECTED<br>BY ARCHITECT PRIOR TO<br>INSTALLATION                                                                             |   |
|                                                                                                                                                                                                                      | F |
| No. REVISION/SUBMISSION DATE<br>Mechanical/Electrical/Plumbing Engineer                                                                                                                                              |   |
| CONSULTING ENGINEERS, D.P.C.<br>223 MAIN STREET, GOSHEN NY 10924<br>TEL: (845) 291 1272<br>info@GerardAssociates.com www.GerardAssociates.com                                                                        | E |
| Structural Engineer<br>Structural Engineer<br>Structural Engineer<br>Structural Engineer<br>Structural Engineer<br>CONSULTING ENGINEERS<br>200 Fisher Drive Avon, Connecticut<br>phone 860.677.4570 fax 860.676.0814 | D |
| ARCHITECTURE<br>PLANNING INTERIORS<br>Liscum<br>McCormack<br>VanVoorhis LLP<br>HONE 845-452-2268 FAX 845-452-3752                                                                                                    | c |
| PROJECT<br>NEW FIRE STATION FOR<br>ROMBOUT FIRE DISTRICT - STATION 2<br>NYS ROUTE 52, FISHKILL, NY<br>DRAWING<br>MECHANICAL:<br>PROPOSED MEZZANINE                                                                   | B |
| SEAL<br>DRAWN BY<br>RL/KC<br>I8 42<br>CHECKED BY<br>JT/GH<br>II-30-22                                                                                                                                                |   |
| DRAWING NUMBER                                                                                                                                                                                                       | A |

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# 12 13



6" BOILER FLUE PIPE UP THROUGH ROOF WITH FLASHING. EXACT LOCATION AND COLOR AS DIRECTED BY ARCHITECT PRIOR TO INSTALLATION



13



--- TOP OF STEEL / BLOCK +12'-0"

No. REVISION/SUBMISSION DATE Mechanical/Electrical/Plumbing Enginee GERARD ASSOCIATES CONSULTING ENGINEERS, D.P.C. 223 MAIN STREET, GOSHEN NY 10924 TEL: (845) 291 1272 info@GerardAssociates.com GA21063 ructural Engineer SZEWCZAK ASSOCIATES Consulting Engineers 200 Fisher DriveAvon, Connecticutphone 860.677.4570fax 860.676.0814 Liscum McCormack VanVoorhis LLP 181 CHURCH STREETARCHITECTUREPLANNING INTERIORSPHONE 845-452-2268FAX 845-452-3752 PROJECT NEW FIRE STATION FOR ROMBOUT FIRE DISTRICT - STATION 2 NYS ROUTE 52, FISHKILL, NY DRAWING MECHANICAL: PROPOSED SECTIONS ROJECT NUMBER DRAWN BY RL/KC 18142 CHECKED BY JT/GH 11-30-22 DRAWING NUMBER M103 H:\2021\GA21063

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|                                                                                                     | ALTERNATE #1                                                                                                                                           |                                                                                          |                                                                                                       | к |
|-----------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------|---|
|                                                                                                     | ZONE #13<br>SNOWMELT TUBING 6" SPACING<br>(140,000 BTU/HR) MANIFOLD #8 MAX.<br>LENGTH OF TUBE 250 FT. FLOW (13.5<br>GPM) @ 16.8 FT HEAD                |                                                                                          |                                                                                                       |   |
|                                                                                                     |                                                                                                                                                        |                                                                                          |                                                                                                       | J |
| LD #8 TO SERVE ZO<br>NING (M504) AND DE<br>MIT OF HIGH INTENSIT                                     | NE #13. FLOW (13.5 GPM) @ 13.0 FT. HEAD. SEE<br>TAIL #7 ON DRAWING (M503)<br>TY BAND, 6'-0" FROM PERIMETER, 6" TUBE                                    |                                                                                          |                                                                                                       | l |
|                                                                                                     | #1,2,3,5 ON DRAWING (M507)                                                                                                                             |                                                                                          |                                                                                                       |   |
|                                                                                                     | - AIR COMPRESSOR SUPPLIED BY PLUMBING<br>CONTRACTOR.                                                                                                   |                                                                                          |                                                                                                       | H |
|                                                                                                     | ZONE #3<br>RADIANT TUBING 12" SPACING (16,855<br>BTU/HR) MANIFOLD #3 MAX. LENGTH OF<br>TUBE 300 FT.<br>FLOW (2.2 GPM) @ 1.6 FT. HEAD                   |                                                                                          |                                                                                                       | G |
|                                                                                                     | - SEE BOILER FLUE/VENT DETAIL #2 ON<br>DRAWING (M506).                                                                                                 |                                                                                          |                                                                                                       |   |
| SP CW                                                                                               | <ul> <li>DOUBLE CHECK VALVE (DCV-I) BY<br/>SPRINKLER CONTRACTOR.</li> <li>6" SPRINKLER SERVICE BY SPRINKLER<br/>CONTRACTOR.</li> </ul>                 | No. REVISION/SU                                                                          | BMISSION DATE                                                                                         |   |
| H-1<br>(2.0 GPM)                                                                                    | <ul> <li>— 2" DOMESTIC WATER SERVICE BY PLUMBING<br/>CONTRACTOR.</li> <li>— REDUCED PRESSURE ZONE VALVE (RPZ-I) BY<br/>PLUMBING CONTRACTOR.</li> </ul> | CONSULTING E<br>223 MAIN STREET,<br>TEL: (84<br>info@GerardAssociates.com                | ERARD<br>SOCIATES<br>NGINEERS, D.P.C.<br>GOSHEN NY 10924<br>5) 291 1272<br>www.GerardAssociates.com   | E |
| BING LIMIT OF<br>TY BAND, 6'-0"<br>ETER, 6" TUBE                                                    | ZONE #II<br>SNOWMELT TUBING 6" SPACING (20,000<br>BTU/HR) MANIFOLD #4 MAX. LENGTH OF<br>TUBE 300 FT. FLOW (2.0 GPM) @ 14.4 FT.<br>HEAD                 | Structural Engineer                                                                      | A21063<br>ASSOCIATES<br>NGINEERS                                                                      | D |
| MANIFOLD #4 TO<br># #11, 14. FLOW (15.5<br>FT. HEAD. SEE DETA<br>ING (M504) AND<br>N DRAWING (M503) | NIL                                                                                                                                                    | 200 Fisher Drive Av<br>phone 860.677.4570 fav                                            | con, Connecticut<br>860.676.0814                                                                      |   |
|                                                                                                     | ZONE #14<br>SNOWMELT TUBING 6" SPACING<br>(140,000 BTU/HR) MANIFOLD #4 MAX.<br>LENGTH OF TUBE 250 FT. FLOW (13.5<br>GPM) @ 16.8 FT. HEAD               | ARCHITECTURE<br>PLANNING INTERIORS                                                       | CCormack<br>InVoorhis LLP<br>URCH STREET<br>IKEEPSIE, NEW YORK 12601<br>845-452-2268 FAX 845-452-3752 | С |
|                                                                                                     | ALTERNATE #1                                                                                                                                           | PROJECT<br>NEW FIRE STATION<br>ROMBOUT FIRE DIS<br>NYS ROUTE 52, FIS<br>DRAWING<br>MECH, | I FOR<br>STRICT - STATION 2<br>SHKILL, NY                                                             | В |
|                                                                                                     |                                                                                                                                                        | FIRST FLOOR RA                                                                           | DIANT HEAT PLAN<br>DRAWN BY<br>RL/KC<br>CHECKED BY<br>JT/GH<br>DATE<br>JT/GH<br>DATE<br>JT/GH         |   |
|                                                                                                     |                                                                                                                                                        |                                                                                          | M200                                                                                                  | A |

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|         | - SNOW MELT MANIFOLD #8 TO SERVE ZONE #13.<br>FLOW (13.5 GPM) @ 13.0 FT. HEAD.                                                                                                                                                                                    |                                                                                                                                                |                            |
|---------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------|
|         | FURNISH & INSTALL GAS SOLENOID SAFETY<br>VALVE AND UL LISTED FLEXIBLE METAL<br>CONNECTOR TO GENERATOR. EXACT<br>LOCATION OF GAS PIPING SHALL BE<br>COORDINATED WITH APPROVED GENERATOR<br>SHOP DRAWINGS. SEE GAS PIPING SCHEMATIC<br>DETAIL #4 ON DRAWING (M503). |                                                                                                                                                |                            |
|         | UNDERGROUND GAS PIPE TO GENERATOR.<br>EXACT LOCATION BASED ON APPROVED<br>GENERATOR SHOP DRAWING.                                                                                                                                                                 |                                                                                                                                                |                            |
|         |                                                                                                                                                                                                                                                                   |                                                                                                                                                |                            |
|         | - AIR COMPRESSOR BY OWNER. INSTALLED BY<br>PLUMBING CONTRACTOR                                                                                                                                                                                                    |                                                                                                                                                |                            |
| 90      | - UNDERGROUND GAS PIPE. COORDINATE<br>GAS PIPE TERMINATION POINT WITH SITE<br>CONTRACTOR. SEE SITE PLAN FOR<br>CONTINUATION OF GAS PIPING.                                                                                                                        |                                                                                                                                                |                            |
|         | NEW GAS SERVICE AND METER LOCATED<br>AT BUILDING, EXACT LOCATION AS<br>APPROVED BY CENTRAL HUDSON GAS &<br>ELECTRIC. SET GAS SERVICE PRESSURE<br>AT II" W.C. SEE GAS PIPING SCHEMATIC<br>DETAIL #4 ON DRAWING (M503).                                             |                                                                                                                                                |                            |
|         | - 2½" GAS PIPE W/SHUTOFF VALVE IN AN<br>ACCESSIBLE LOCATION.<br>- SEE BOILER DETAIL #1 ON DRAWING (M506)                                                                                                                                                          |                                                                                                                                                |                            |
|         | TYPICAL<br>BOILER FLUE AND VENT PIPING. SEE DETAIL #2<br>ON DRAWING (M506)                                                                                                                                                                                        |                                                                                                                                                |                            |
|         | - DOUBLE CHECK VALVE (DCV-I) BY SPRINKLER<br>CONTRACTOR.                                                                                                                                                                                                          |                                                                                                                                                |                            |
| /       | - 6" SPRINKLER SERVICE BY SPRINKLER<br>CONTRACTOR.                                                                                                                                                                                                                | No. REVISION/SUBMISSION                                                                                                                        | DATE                       |
| \$<br>\ | - 2" DOMESTIC WATER SERVICE BY PLUMBING<br>CONTRACTOR.<br>- REDUCED PRESSURE ZONE VALVE (RPZ-1) BY<br>PLUMBING CONTRACTOR.                                                                                                                                        | Mechanical/Electrical/Plumbing Engineer                                                                                                        | )<br>S                     |
|         | - INDIRECT WATER HEATER (WH-I) SUPPLIED BY<br>PLUMBING CONTRACTOR. SEE DETAIL #6 ON<br>DRAWING (M503)                                                                                                                                                             | CONSULTING ENGINEERS, D.P<br>223 MAIN STREET, GOSHEN NY 10<br>TEL: (845) 291 1272<br>info@GerardAssociates.com www.GerardAssociates<br>GA21063 | . <b>C.</b><br>924<br>.com |
| ╺       |                                                                                                                                                                                                                                                                   | Structural Engineer                                                                                                                            |                            |
|         | SNOW MELT MANIFOLD #4 TO SERVE ZONE #11,<br>14. (15.5 GPM) @ 13.0 FT. HEAD                                                                                                                                                                                        | SZEWCZAK ASSOC<br>CONSULTING ENGINEERS<br>200 Fisher Drive Avon, Connecticut<br>phone 860.677.4570 fax 860.676.0814                            | IATES                      |
| (       | ALTERNATE #1                                                                                                                                                                                                                                                      | ARCHITECTURE Liscum<br>McCorm<br>VanVoor<br>181 CHURCH STREET<br>POLICHKEEPSIE NEW YORK                                                        | ack<br>his LLP             |
|         |                                                                                                                                                                                                                                                                   | PLANNING INTERIORS PHONE 845-452-2268 FAX 8<br>PROJECT<br>NEW FIRE STATION FOR<br>ROMBOUT FIRE DISTRICT - ST<br>NYS ROUTE 52, FISHKILL, NY     | ATION 2                    |
|         |                                                                                                                                                                                                                                                                   | DRAWING<br>MECHANICAL:<br>FIRST FLOOR HYDRONIC PIPI<br>SEAL DRAWN BY PROJE                                                                     | NG PLAN                    |
|         |                                                                                                                                                                                                                                                                   | RL/KC<br>CHECKED BY DATE<br>JT/GH I<br>DRAWING NUMBER                                                                                          | 18142<br>1-30-22           |
|         |                                                                                                                                                                                                                                                                   | M3                                                                                                                                             | 00                         |

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|                                    |                                                                                                                                                  | F |
| No.                                | REVISION/SUBMISSION DATE                                                                                                                         |   |
| ,                                  | Consulting engineers, d.p.c.23 MAIN STREET, GOSHEN NY 1092421 E. (845) 291 127221 mo@derardAssociates.com262103                                  | E |
| Sz<br>Cc<br>200 I<br>phot          | ZEWCZAK ASSOCIATES         DNSULTING       ENGINEERS         Fisher Drive       Avon, Connecticut         ne 860.677.4570       fax 860.676.0814 | D |
| ARC                                | HITECTURE<br>ING INTERIORS                                                                                                                       | С |
| ROJEC<br>IEM<br>ROM<br>IYS<br>RAWI | FIRE STATION FOR<br>BOUT FIRE DISTRICT - STATION 2<br>ROUTE 52, FISHKILL, NY                                                                     | в |
| AL                                 | DETAILS<br>DRAWN BY<br>RL/KC<br>CHECKED BY<br>JT/GH<br>H-30-22                                                                                   |   |
|                                    | DRAWING NUMBER                                                                                                                                   | A |

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MAIN OR BRANCH DUCT

NOTES:

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TRANSITION TO ROUND SHEET METAL DUCT SUPPORT ALL FLEXIBLE AND -SHEET METAL DUCTWORK FROM

BUILDING STRUCTURAL MEMBERS ONLY. THE MAXIMUM HANGER SPACING-

SHALL IO'. SUPPORT FLEXIBLE DUCTWORK AS REQUIRED TO PREVENT SAGGING OR CRIMPING.

LIMIT FLEXIBLE DUCT RUN *O*UTS TO 6'. FASTEN FLEXIBLE DUCTS WITH TIE WRAPS.

CEILING "T" BAR. TYPICAL -

CEILING DIFFUSER WITH OPPOSED BLADE VOLUME DAMPER. INSULATE BACK OF DIFFUSER WITH I" THICK FIBERGLASS INSULATION WITH VAPOR PROOF JACKET

ACOUSTIC TILE SUSPENDED CEILING SHOWN. BRANCH DUCT CONNECTION IS SIMILAR FOR A SURFACE MOUNTED AIR OUTLETS.



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I) FOR DUCTS OVER 49" WIDE, THE STRAP HANGER SHALL BE TURNED UNDER THE BOTTOM OF THE DUCT.





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| ۱. | PIPE SUPPORT SYSTEM SHALL BE BASED ON PHP SYSTEMS/DESIGN MODEL NUMBER PSE-CUSTOM OR PSE-2-2           |
|----|-------------------------------------------------------------------------------------------------------|
|    | DEPENDING ON NUMBER OF PIPES SUPPORTED.                                                               |
| 2. | CLEVIS HANGERS WITH WELDED INSULATION SHIELDS SIMILAR TO RAUCH FIG. 100SH ON ALL PIPES R4 LARGER      |
|    | THAN I".                                                                                              |
| 3. | BOTTOM OF PIPE ELEVATION SHALL BE MIN. OF 2'-O" ABOVE GRADE. PIPING SHALL BE INSTALLED AS TO          |
|    | ELIMINATE ANY UNNECESSARY OFFSETS UP OR DOWN.                                                         |
| 4. | FOR PIPES I" OR SMALLER, A BAND HANGER WITH INSULATION SHIELD MAY BE USED SIMILAR TO RAUCH FIG. NO.   |
|    | IASH.                                                                                                 |
| 5. | FOR NON-INSULATED PIPE, INSULATION SHIELDS MAY BE OMITTED. FOR NON FERROUS PIPING WITHOUT INSULATION, |
|    | ALL HANGERS SHALL BE COPPER PLATED OR FURNISHED WITH A DI-ELECTRIC BETWEEN PIPE AND HANGERS.          |
| 6. | ALL PIPE SUPPORT COMPONENTS SHALL BE GALVANIZED STEEL OR FACTORY PAINTED BLACK WITH ENAMEL.           |
| 7. | THIS CONTRACTOR SHALL VERIFY SIZE AND NUMBER OF PIPES TO BE SUPPORTED BASED ON FINAL LAYOUT.          |
|    |                                                                                                       |
|    |                                                                                                       |
|    |                                                                                                       |

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | ĸ                |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------|
| HYDRONIC PIPING TERMINATED<br>WATER<br>HEATER<br>(140°F)<br>WH-1<br>WH-1<br>WH-1<br>WH-1<br>WH-1<br>WATER HEATER BY PLUMBING<br>(140°F)<br>WH-1<br>WH-1<br>WATER HEATER BY PLUMBING<br>CONTRACTOR<br>I ¼" HYDRONIC SUPPLY FROM<br>BOILER BY HVAC CONTRACTOR                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                  |
| CONTRACTOR<br>FINISHED FLOOR<br>CONNECTION TO INDIRECT WATER<br>HEATERS BY PLUMBING<br>CONNECTION TO INDIRECT WATER<br>HEATERS BY PLUMBING<br>CONTRACTOR<br>HYDRONIC PIPING TERMINATION<br>POINT                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 1                |
| NOTE:<br>HVAC CONTRACTOR SHALL RUN HYDRONIC PIPING FROM BOILER TO (5'-0" TO INDIRECT WATER<br>HEATER). PLUMBING CONTRACTOR SHALL MAKE FINAL HYDRONIC PIPING CONNECTIONS TO<br>INDIRECT HEATER. COORDINATE HYDRONIC PIPING TERMINATION POINT WITH HVAC CONTRACTOR.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | H                |
| I) DETAIL                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                  |
| FAUTO AIR VENT                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | G                |
| RETURN MANIFOLD                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | F                |
| SUPPLY MANIFOLD<br>No. REVISION/SUBMISSION DATE<br>Mechanical/Electrical/Plumbing Engineer<br>Mechanical/Electrical/Plumbing Engineer<br>Mechanical/Electrical/Plumbing Engineer<br>CONSULTING ENGINEERS, D.P.C.<br>23 MAIN STREET, GOSHEN NY 10924<br>TEL: (845) 291 1272<br>Info@GerardAssociates.com                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | E                |
| CONTRACTOR SHALL USE<br>PEX-PAL ON RADIANT TURNING<br>UNDER SLAB<br>FLOOR LEVEL<br>FLOOR LEVEL<br>FLOOR LEVEL<br>FLOOR LEVEL<br>FLOOR LEVEL<br>FLOOR LEVEL<br>Structural Engineer<br>GA21063<br>Structural Engineer<br>SZEWCZAK ASSOCIATES<br>Avon, Connecticut<br>fax 860.677.4570<br>fax 860.676.0814                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | D                |
| Image: Second State Sta | С                |
| CHOP DRAWINGS ON RADIANT PIPING LAYOUT PREPARED BY RADIANT TUBING<br>REAGINEER'S REVIEW.<br>ALL RADIANT HEAT PIPING AND EQUIPMENT IN ACCORDANCE WITH MANUFACTURER'S<br>E MANIFOLDS SHALL BE APPROVED BY ARCHITECT IN FIELD PRIOR TO INSTALLATION.<br>RADIANT PIPING THROUGH WALLS AND INSTALLED IN SLABS WITH GENERAL<br>IT DRAWINGS SHOWING EXACT LOCATIONS OF RADIANT PIPE AND MANIFOLDS.<br>RS FOR MANIFOLD SERVICING. PAINT ACCESS DOORS WITH (I) COAT PRIMER, (2) COATS<br>BY ARCHITECT. MATCH ACCESS DOOR RATING TO WALL CONSTRUCTION.<br>EX CROSS-LINKED POLYETHYLENE TUBING WITH AN OXYGEN DIFFUSION BARRIER.<br>INO TO SERVICE THE TUBING WITH AN OXYGEN DIFFUSION BARRIER.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | B                |
| IBOTE AS MANUFACTURED BY UPONOR OR EQUAL.<br>NT PIPING THAT PENETRATES OR COMES IN CONTACT WITH SHARP EDGES, ABRASIVE AND DRAWING (M507) FOR RADIANT PIPE INSTALLATION DETAILS.  PIPING SCHEMATIC  PIPING SCHEMATIC  PIPING SCHEMATIC                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | -<br>-<br>-<br>- |
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SEISMIC EQUIPMENT, DUCTWORK AND PIPE HANGER DESIGN



| BRACE<br>SPACING                | PIPE                        | ROD                                | MAX. ROD<br>LENGTH              | VERT.<br>HANGERS                                                                             | TRANSVERSE<br>HANGERS                                                                       | BOLT                 |
|---------------------------------|-----------------------------|------------------------------------|---------------------------------|----------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------|----------------------|
| 40'<br>40'<br>40'<br>40'<br>40' | 2½"<br>3"<br>4"<br>6"<br>8" | 1/2"<br>1/2"<br>5%"<br>3/4"<br>7%" | 25"<br>25"<br>31"<br>37"<br>43" | 2 x 2 x l6ga<br>2 X 2 X l6ga | 2½" × 2½ × 16ga<br>2½" × 2½ × 16ga<br>2½" × 2½ × 16ga<br>2½" × 2½ × 16ga<br>2½" × 2½ × 16ga | %"<br>%"<br>%"<br>%" |

|                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                             | G |
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|                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                             | F |
| No.                                | REVISION/SUBMISS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | ION DATE                                                                    |   |
| and nedi/                          | CONSULTING ENGINE<br>CONSULTING ENGINE<br>223 MAIN STREET, GOSHE<br>TEL: (845) 291 12<br>info@GerardAssociates.com www.GerardAssociates.com www.GerardAssociat | ARD<br>NATES<br>RS, D.P.C.<br>N NY 10924<br>72<br>rardAssociates.com        | E |
| SZ<br>CC<br>200 J<br>phor          | DNSULTING ENGIN<br>Fisher Drive Avon, Con<br>ne 860.677.4570 fax 860.676                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | SOCIATES<br>EERS<br>necticut<br>.0814                                       | D |
| ARC                                | HITECTURE<br>ING INTERIORS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | n<br>Drmack<br>Oorhis LLP<br>EET<br>NEW YORK 12601<br>2268 FAX 845-452-3752 | С |
| ROJEC<br>IEM<br>ROM<br>IYS<br>RAWI | FIRE STATION FOR<br>BOUT FIRE DISTRIC<br>ROUTE 52, FISHKILL                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | T - STATION 2<br>-, NY                                                      | В |
|                                    | MECHANIC<br>DETAILS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | AL:                                                                         |   |
| AL                                 | DRAWN BY<br>RL/K<br>CHECKED B<br>JT/C<br>DRAWING N                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | PROJECT NUMBER<br>(8)42<br>TY DATE<br>H   -30-22<br>NUMBER                  |   |
|                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 1505                                                                        | A |

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| BOILER VENT<br>PIPING SCHEDULE |                     |  |
|--------------------------------|---------------------|--|
| UNIT NO.                       | FLUE/VENT PIPE SIZE |  |
| B-1, 2                         | 6"                  |  |

NEW YORK STATE DEPARTMENT OF LABOR - PART 4 - CONSTRUCTION INSTALLATION INSPECTION

CLEARANCE FOR BOILERS INSTALLED AFTER MARCH 31, 1965 IN A SPACE OR ROOM NOT PREVIOUSLY USED TO HOUSE A BOILER.

- I. BUILDING WALL OR PARTITION CLEARANCE. THE CLEARANCE BETWEEN ANY COMPONENT ON THE SIDE OR REAR OF A BOILER AND ANY WALL OR PARTITION OF THE BUILDING IN WHICH IT IS INSTALLED SHALL BE NOT LESS THAN 24 INCHES WHERE THE RATED GROSS CAPACITY IS LESS THAN 5,000,000 BTU PER HOUR. WHERE THE RATED GROSS CAPACITY EXCEEDS 5,000,000 BTU PER HOUR, THE CLEARANCE TO ANY PROTECTED COMBUSTIBLE CONSTRUCTION SHALL BE NOT LESS THAN 36 INCHES.
- 2. CLEARANCE FROM OTHER BOILERS OR EQUIPMENT. THE CLEARANCE BETWEEN ANY COMPONENT OF THE BOILER ANY OTHER BOILER OR EQUIPMENT SHALL BE NOT LESS THAN 24 INCHES.
- 3. FRONT OPERATING CLEARANCE. THE CLEARANCE FROM THE FRONT WALL OR HEAD OR HEAT GENERATING APPARATUS OF THE BOILER, WHICHEVER IS CLOSER TO THE BUILDING WALL PARTITION OR OTHER EQUIPMENT, SHALL BE NOT LESS THAN FOUR FEET WHERE THE RATED GROSS CAPACITY IS LESS THAN 5,000,000 BTU PER HOUR. WHERE THE RATED GROSS CAPACITY EXCEEDS 5,000,000 BTU PER HOUR, SUCH CLEARANCE SHALL BE NOT LESS THAN SIX FEET.
- 4. WORKING PLATFORM -- VERTICAL CLEARANCE. WHEN WORKING PLATFORMS, REQUIRED FOR BOILERS WHERE THE DISTANCE FROM THE FLOOR TO THE TOP OF THE BOILER OR BOILER SETTING EXCEEDS EIGHT FEET, ARE INSTALLED ON TOP OF A BOILER FOR OPERATING OR MAINTENANCE PURPOSES, THE CLEARANCE FROM THE WORKING SURFACE OF SUCH PLATFORM TO THE LOWEST POINT OF ANY OVERHEAD STRUCTURE SHALL BE NOT LESS THAN SEVEN FEET.

- I. FURNISH AND INSTALL BOILER APPURTENANCES AS RECOMMENDED BY MANUFACTURER AND SERVICE SILLCOCKS TO FACILITATE BOILER DRAINING AND HYDRONIC SYSTEM PURGING.
- 2. PROVIDE BOILER SAFETY SHUTDOWN SWITCH AT BOILER ROOM ENTRANCE TO SHUTDOWN ALL GAS FIRED EQUIPMENT UPON ACTIVATION. SEE DETAIL #4 ON DRAWING (M500).
- 3. USE BRASS UNION OR BALL VALVE BETWEEN DISSIMILAR METALS SUCH AS, BUT NOT LIMITED TO, STEEL AND COPPER CONNECTIONS. 4. CONTRACTOR SHALL FILL SNOWMELT AND BOILER HEATING SYSTEM WITH DOWFROST PROPYLENE GLYCOL SOLUTION WITH RUST INHIBITORS (35%). SUBMIT CONCENTRATION TEST REPORT FOR ENGINEERS REVIEW.
- 4. CONTRACTOR SHALL FURNISH AND INSTALL MANUAL RESET HIGH LIMIT AND LOW WATER CUTOFF ON EACH BOILER.
- 5. CONTRACTOR SHALL HIRE MANUFACTURERS REPRESENTATIVE TO STARTUP BOILERS, SETUP CONTROLS AND PERFORM OPERATION AND COMBUSTION TESTS AS REQUIRED BY MANUFACTURER. SUBMIT REPORT OF STARTUP AND TESTS RESULTS TO ENGINEER FOR APPROVAL.

| No.            | REVISIO            | ON/SU              | BMISSIO                       | N               | DA         | TE   |
|----------------|--------------------|--------------------|-------------------------------|-----------------|------------|------|
| /lechanical/E  | lectrical/Plumbing | Engineer           |                               |                 |            |      |
|                |                    | G                  | ERA                           | R               | )          |      |
|                |                    | AS                 | SOCIA                         | <b>TE</b>       | S          |      |
|                | CONSUL             | TING I             | ENGINEERS                     | , D.P           | .C.        |      |
|                | 223 MAIN           | STREET<br>TEL: (84 | , GOSHEN N<br>45) 291 1272    | NY 10           | 924        |      |
|                | info@GerardAs      | sociates.co        | m www.GerardAs                | sociates        | .com       |      |
| itructural Er  | igineer            |                    | GA21063                       |                 |            |      |
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| Sz             | FWC                | 7 A K              |                               |                 | ΙΔΤΙ       | FS   |
| $\frac{OZ}{C}$ |                    | <u>т</u>           |                               | <i>.</i>        |            |      |
|                | NSULTIN            | JG E               | LNGINEE                       | RS              |            |      |
| phor           | ae 860.677.457     | 70 fa              | x 860.676.081                 | 4               |            |      |
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|                |                    | LIS                | CUM                           |                 |            |      |
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| H              |                    |                    |                               |                 |            | ``   |
| ш              |                    | VC                 | anvo                          | 0               | <b>MIS</b> | LLP  |
| ARCH           | HITECTURE          | 181 CH<br>POUG     | IURCH STREET<br>HKEEPSIE, NEW | ' YORK          | (12601     |      |
| PLANNI         | NG INTERIORS       | PHON               | E 845-452-2268                | FAX             | 845-452-3  | 752  |
|                |                    |                    |                               |                 |            |      |
| ROM            | BOUT FIR           |                    | STRICT ·                      | - 51            |            | N 2  |
| NYS            | ROUTE 5            | 2, FI              | SHKILL, N                     | ۱۲ <sup>-</sup> |            | _    |
| DRAWI          | √G                 |                    |                               |                 |            |      |
|                | M                  |                    | ANICAL<br>TAILS               | _:              |            |      |
|                |                    |                    |                               |                 |            |      |
| SEAL           |                    |                    | DRAWN BY                      | PROJE           |            |      |
|                |                    |                    | CHECKED BY                    | DATE            | 10142      | 2    |
|                |                    |                    | JT/GH                         |                 | 1-30-      | 22 🛛 |
|                |                    |                    | DRAWBICSTR                    | ED              |            |      |
|                |                    |                    | DRAWING NUMB                  | ER              |            |      |
|                |                    |                    |                               | ER              | <u>۸</u> ۷ |      |
|                |                    |                    |                               | 5               | 06         |      |
|                |                    |                    |                               | <b>5</b>        | 06         |      |



|                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | IEL: (845) 291 1272<br>info@GerardAssociates.com www.GerardAssociates.com                                                                                 |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------|
| SLAB<br>RIGID INSULATION MINIMUM<br>(R-5).STYROFOAM HIGHLOAD 100                                                                                                                                                                                                                                                                                                                                                                                                   |                                                                                                                                                           |
| SUB SOIL                                                                                                                                                                                                                                                                                                                                                                                                                                                           | SZEWCZAK ASSOCIATES         CONSULTING       ENGINEERS         200 Fisher Drive       Avon, Connecticut         phone 860.677.4570       fax 860.676.0814 |
| NOTE:                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                           |
| I. DIP TUBING BELOW SLAB INTO SUBSOIL.                                                                                                                                                                                                                                                                                                                                                                                                                             | Liscum<br>McCormack                                                                                                                                       |
| JOINTS IN CONCRETE - CONCRETE SLABS OFTEN REQUIRE CONSTRUCTION JOINTS, CONTROL<br>JOINTS OR EXPANSION JOINTS. DETAILS FOR THESE JOINTS MUST BE SPECIFIED ON THE PLAN.<br>PROVISIONS MUST BE MADE TO CON-TROL SHEAR FORCES AT THE JOINTS AND ELIMINATE<br>DAMAGE TO THE TUBING.                                                                                                                                                                                     | ARCHITECTURE<br>PLANNING INTERIORS VORK 12601<br>PHONE 845-452-2268 FAX 845-452-3752                                                                      |
| CONSTRUCTION JOINTS - CONSTRUCTION JOINTS SEPARATE TWO POURS OF A SLAB COMPLETED<br>AT DIFFERENT TIMES. BECAUSE IT IS DIFFICULT TO CONSTRUCT A LARGE SLAB IN ONE POUR, A<br>BULKHEAD IS INSTALLED TO CONTAIN SECTIONS OF THE SLAB UNTIL THE NEXT PHASE IS POURED.<br>IT MAY BE CONVENIENT TO INSTALL THE TUBING IN AN AREA JUST BEFORE THE SLAB IS POURED.<br>THAT MAKES IT EASIER TO MOVE CONCRETE EQUIPMENT                                                      | PROJECT<br>NEW FIRE STATION FOR<br>ROMBOUT FIRE DISTRICT - STATION 2<br>NYS ROUTE 52, FISHKILL, NY                                                        |
| FROM PLACE TO PLACE AND REDUCES THE CHANCES THAT THE TUBING WILL BE DAMAGED DURING INSTALLATION. TYPICALLY, THE TUBING IS DROPPED BELOW THE CONTROL JOINT.                                                                                                                                                                                                                                                                                                         | DRAWING<br>MECHANICAL:<br>DETAILS                                                                                                                         |
| CONTROL JOINTS, SOMETIMES CALLED CONTRACTION JOINTS, ARE PLACES WHERE THE<br>CONCRETE SURFACE IS SCORED TO CONTROL CRACKING AND RELIEVE THE STRESS CREATED<br>WHEN CONCRETE SHRINKS DURING THE CURING PROCESS. THESE JOINTS ELIMINATE THE RANDOM<br>CRACKS THAT WOULD OTHERWISE OCCUR. BECAUSE CONTROL JOINTS ARE OFTEN CUT INTO THE<br>SLAB AFTER IT HAS SET, THE TUBING MUST BE PLACED DEEP ENOUGH IN THE SLAB TO AVOID<br>THE BLADE USED TO SCORE THE CONCRETE. | SEAL<br>DRAWN BY<br>RL/KC<br>I8142<br>CHECKED BY<br>JT/GH<br>II-30-22<br>DRAWING NUMBER                                                                   |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | M507                                                                                                                                                      |
| 12 13 14 15                                                                                                                                                                                                                                                                                                                                                                                                                                                        | n.\2021\0A21003                                                                                                                                           |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                                                                                                           |

No. | REVISION/SUBMISSION |

GERARD

CONSULTING ENGINEERS, D.P.C. 223 MAIN STREET, GOSHEN NY 10924

SSOCIATES

anical/Electrical/Plumbing Engine

DATE

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|                             |                 |                | RECTAN          | NGULAF      | RDUCT               |                               |                    |                        |  |  |
|-----------------------------|-----------------|----------------|-----------------|-------------|---------------------|-------------------------------|--------------------|------------------------|--|--|
| MINIMUM<br>HALF OF          | PAIF<br>10Ft SP | R AT<br>PACING | PAIR<br>8Ft SPA | AT<br>ACING | PAIR<br>5Ft SPA     | AT<br>CING                    | PAIR<br>4Ft SP/    | PAIR AT<br>4Ft SPACING |  |  |
| PERIMETER                   | STRAP           | ROD            | STRAP           | ROD         | STRAP               | ROD                           | STRAP              | RO                     |  |  |
| P/2 = 30"                   | l" x 22ga       | <i>1</i> /4"   | l" x 22ga       | 1/4"        | l" x 22ga           | <i>1</i> /4"                  | l" x 22ga          | 1/4"                   |  |  |
| P/2 = 72"                   | 1" x 18ga       | 3⁄8"           | l" x 20ga       | 1⁄4"        | l" x 22ga           | <i>\</i> 4"                   | l" x 22ga          | <i>1</i> /4"           |  |  |
| P/2 = 96"                   | 1" x 16ga       | 3%"            | 1" x 18ga       | 36"         | l" x 20ga           | 36"                           | l" x 22ga          | 36"                    |  |  |
| P/2 = 120"                  | 1½" × 16ga      | と"             | 1" x 16ga       | 1/2"        | 1" × 16ga           | 3∕8"                          | 1" × 18ga          | 3∕8"                   |  |  |
| P/2 = 192"                  | -               | -              | 1" x 16ga       | ′′2"        | 1" x 16ga           | 36"                           | 1" x 18ga          | 3/8"                   |  |  |
|                             |                 |                |                 |             | SINGLE HANGE        | ER MAXIMU                     | IM ALLOWABLE       | LOAD                   |  |  |
| WHEN STRAP                  | S ARE LAP _     | IOINED USE     | THESE MINIMUN   | 1           | STRAP               |                               | ROD (D             | ia.)                   |  |  |
|                             |                 |                | -               | 1"          | x 22qa - 260l       | ¼" - 270Lbs.<br>3%" - 680Lbs. |                    |                        |  |  |
| 1 × 18, 20, 2.<br>1" X 16qa | 2ga - C<br>- T  | "WO 1/4" Dia   | •               |             | -<br>" x 20ga - 32L |                               |                    |                        |  |  |
| 1" X 16ga                   | - T             | "WO ¾" Dia     | а.              |             | x 18ga - 420L       | .bs.                          | <u> </u> と" - 1250 | Lbs.                   |  |  |
| PLACE FAST                  | ENERS IN SEF    | RIES, NOT S    | IDE BY SIDE.    | "           | x 16ga - 700L       | .bs.                          | 5%" - 200          | OLbs.                  |  |  |
|                             |                 |                |                 | V2          | " x 16ga - 1100     | Lbs.                          | ³⁄4" - 300         | OLbs.                  |  |  |

TRAPEZE WEIGHT, BUT NO EXTERNAL LOADS. STRAPS ARE GALVANIZED STEEL. 4. ALLOWABLE LOADS FOR P/2 ASSUME THAT DUCTS ARE 16 GA. MAXIMUM, EXCEPT WHEN MAXIMUM DUCT

DIMENSION (W) IS OVER 60" THEN P/2 MAXIMUM IS 1.25 W.

|                  |                |                 |                   | PIPI                   | e hange                | ER SCHE                 | DULE   |                |                 |                   |              |
|------------------|----------------|-----------------|-------------------|------------------------|------------------------|-------------------------|--------|----------------|-----------------|-------------------|--------------|
| PIPE             | MAXI<br>S      | MUM H<br>PACINO | ORIZOI<br>G (FEE1 | NTAL<br><sup>-</sup> ) | SINGLE S<br>HANGER SIZ | TEEL ROD<br>ZE (INCHES) |        | MA)<br>S       | XIMUM<br>PACINO | VERTIC<br>G (FEET | CAL<br>-)    |
| (INCHES)         | COPPER<br>TUBE | CAST<br>IRON    | STEEL<br>PIPE     | CPVC<br>PIPE           | TUBING                 | PIPING                  | STEEL  | COPPER<br>TUBE | CAST<br>IRON    | STEEL<br>PIPE     | CPVC<br>PIPE |
| 1/2"             | 6              | 5               | 8 <sup>(5)</sup>  | З                      | 1/4"                   | 3⁄8"                    | BAND   | 10             | 15              | 15                | 10           |
| <sup>3</sup> ⁄4" | 6              | 5               | 8 <sup>(5)</sup>  | З                      | 1⁄4"                   | <sup>3</sup> ⁄8"        | BAND   | 10             | 15              | 15                | 10           |
| 1"               | 6              | 5               | 8 <sup>(5)</sup>  | З                      | 1/4"                   | 3⁄8"                    | BAND   | 10             | 15              | 15                | 10           |
| 1/4"             | 6              | 5               | q (5)             | 4                      | 1/4"                   | 3⁄8"                    | CLEVIS | 10             | 15              | 15                | 10           |
| 1/2"             | 6              | 5               | q (5)             | 4                      | 1/4"                   | 3⁄8"                    | CLEVIS | 10             | 15              | 15                | 10           |
| 2"               | 10             | 5               | 10 <sup>(5)</sup> | 4                      | 1/4"                   | 3⁄8"                    | CLEVIS | 10             | 15              | 15                | 10           |
| 21/2"            | 10             | 5               | 12 <sup>(5)</sup> | 4                      | 3/8"                   | 1/2"                    | CLEVIS | 10             | 15              | 15                | 10           |
| 3"               | 10             | 5               | 12 (5)            | 4                      | 3/8"                   | ۲ <u>/</u> 2"           | CLEVIS | 10             | 15              | 15                | 10           |
| 4"               | 10             | 5               | 12 <sup>(5)</sup> | 4                      | 1/2"                   | 5⁄8"                    | CLEVIS | 10             | 15              | 15                | 10           |
| 5"               | 10             | 5               | 12 <sup>(5)</sup> | 4                      | 1/2"                   | 5⁄8"                    | CLEVIS | 10             | 15              | 15                | 10           |
| 6"               | 10             | 5               | 12 <sup>(5)</sup> | 4                      | 1/2"                   | 3⁄4"                    | CLEVIS | 10             | 15              | 15                | 10           |
| 8"               | 10             | 5               | 12 (5)            | 4                      | 5/8"                   | 76"                     | CLEVIS | 10             | 15              | 15                | 10           |
| 10"              | 10             | 5               | 12 <sup>(5)</sup> | 4                      | 5/8"                   | 7/8"                    | CLEVIS | 10             | 15              | 15                | 10           |
| 12"              | 10             | 5               | 12 (5)            | 4                      | 5/8"                   | 7⁄8"                    | CLEVIS | 10             | 15              | 15                | 10           |

NOTES:

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MAXIMUM HORIZONTAL SPACING OF CAST-IRON PIPE HANGERS SHALL BE INCREASED TO IO FEET WHERE IO FOOT LENGTHS OF PIPE ARE INSTALLED.

INSTALL HANGER OR SUPPORT CLOSE TO THE POINT OF CHANGE OF DIRECTION IN ALL PIPE RUNS. INSTALL ADDITIONAL HANGERS ON SUPPORTS AT CONCENTRATED LOADS.

4. SUPPORT ALL BRANCH PIPING OVER 5'-O" IN LENGTH.

5.  $\frac{1}{2}$ " Gas piping shall be supported every 6'-0".  $\frac{3}{4}$ " and 1" gas piping shall be SUPPORTED EVERY 8'-0".  $V_4$ " AND LARGER GAS PIPING SHALL BE SUPPORTED EVERY

10'-0". 6. SUPPORT VERTICAL PIPING AT EVERY FLOOR.

| HEATING AND COOLING MINIMUM PIPE INSULATION <sup>a</sup><br>COMMERCIAL<br>(THICKNESS IN INCHES)                                                                                                            |        |             |                |        |  |  |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------|-------------|----------------|--------|--|--|
|                                                                                                                                                                                                            |        | NOMINAL PIF | PE DIAMETER    |        |  |  |
| FLUID                                                                                                                                                                                                      | < 1.5" | 1.5" < 4.0" | 4.0" to < 8.0" | ≤ 8.0" |  |  |
| HOT WATER (141 - 200 °F)                                                                                                                                                                                   | 1.5    | 2.0         | 2.0            | 2.0    |  |  |
| CHILLED WATER OR REFRIGERANT                                                                                                                                                                               | 1.5    | 1.5         | 1.5            | 1.5    |  |  |
| CONDENSATE                                                                                                                                                                                                 | 1.0    | 1.0         | I.O            | 1.5    |  |  |
| FOR SI:<br>I INCH = 25.4mm, BTU PER INCH/H x Ft <sup>2</sup> x °F = W PER 25mm/K x M <sup>2</sup><br>BASED IN INSULATION HAVING A CONDUCTIVITY NOT EXCEEDING 0.27<br>BTU PER INCH/H x FT <sup>2</sup> X °F |        |             |                |        |  |  |

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### MINIMUM DUCT INSULATION COMMERCIAL

ALL SUPPLY AND RETURN AIR DUCTS AND PLENUMS SHALL BE INSULATED WITH A MINIMUM OF R-6 INSULATION WHEN LOCATED IN UNCONDITIONED SPACES AND WITH A MINIMUM OF R-12 INSULATION WHEN LOCATED OUTSIDE THE BUILDING ENVELOPE. WHEN LOCATED WITHIN A BUILDING ENVELOPE ASSEMBLY, THE DUCT OR PLENUM SHALL BE SEPARATED FROM THE BUILDING EXTERIOR OR UNCONDITIONED OR EXEMPT SPACES BY A MINIMUM OF R-12 INSULATION.

EXCEPTIONS: . WHEN LOCATED WITHIN EQUIPMENT. 2. WHEN THE DESIGN TEMPERATURE DIFFERENCE BETWEEN THE INTERIOR AND EXTERIOR OF THE DUCT OR PLENUM DOES NOT EXCEED 15°F (8°C).

ALL JOINTS, LONGITUDINAL AND TRANSVERSE SEAMS, AND CONNECTIONS IN DUCTWORK, SHALL BE SECURELY FASTENED AND SEALED WITH WELDS, GASKETS, MASTICS (ADHESIVES), MASTIC-PLUS-EMBEDDED FABRIC SYSTEMS OR TAPES. TAPES AND MASTICS USED TO SEAL DUCTWORK SHALL BE LISTED AND LABELED IN ACCORDANCE WITH UL IBIA OR UL IBIB. DUCT CONNECTIONS TO FLANGES OF AIR DISTRIBUTION SYSTEM EQUIPMENT SHALL BE SEALED AND MECHANICALLY FASTENED. UNLISTED DUCT TAPE IS NOT PERMITTED AS A SEALANT ON ANY METAL DUCTS.

NOTE:

DUCT INSULATION, COVERINGS AND LINING MATERIALS AND ADHESIVES SHALL HAVE A FLAME SPREAD INDEX OF NOT MORE THAN 25, AND A SMOKE DEVELOPED INDEX OF NOT MORE THAN 50, IN ACCORDANCE WITH 2020 MC SECTION 604.3.

| MINIM                                 |                                    | GER SIZE                 | S FOR ROI                                     | JND DUCT                           |
|---------------------------------------|------------------------------------|--------------------------|-----------------------------------------------|------------------------------------|
| DIAMETER                              | MAXIMUM<br>SPACING                 | WIRE<br>DIAMETER         | ROD                                           | STRAP                              |
| 10" DN.                               | 12'                                | -                        | <i>\</i> 4"                                   | l" x 22qa.                         |
| 11" - 18"                             | 12'                                | -                        | 1/4"                                          | l" x 22ga.                         |
| 19" - 24"                             | 12'                                | -                        | 1/4"                                          | l" x 22ga.                         |
| 25" - 36"                             | 12'                                | -                        | 3%"                                           | l" x 22ga.                         |
| 37" - 50"                             | 12'                                | -                        | TWO 3/6"                                      | TWO 1" x 20ga.                     |
| 51" - 60"                             | 12'                                | -                        | TWO ⅔"                                        | TWO I" × 18ga.                     |
| 6 " - 84"                             | 12'                                | -                        | TWO ⅔"                                        | TWO I" X 16GA.                     |
| NOTES:                                | 1                                  | 11                       |                                               |                                    |
| I. STRAPS A<br>2. TABLE AL<br>SYSTEMS | AND RODS A<br>LOWS FOR<br>PLUS ONF | RE GALVANI<br>CONVENTION | ZED STEEL.<br>AL WALL THICK<br>SUI ATION WEIG | (NESS, AND JOINT<br>HT. IF HEAVIER |

DUCTS ARE TO BE INSTALLED, ADJUST HANGER SIZES.

## GENERAL HVAC NOTES

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ALL LOCAL CODES AND GENERALLY ACCEPTED STANDARDS.

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- STANDARDS.
- DEMONSTRATE NEW HVAC SYSTEMS TO SCHOOL AND REVIEW MAINTENANCE PROCEDURES.
- PROJECT.
- COMPLETE AND OPERABLE.
- JURISDICTION.
- OR TURNING VANES ON ALL CHANGES IN DIRECTION IN ACCORDANCE WITH SMACNA STANDARDS.
- INSTALLED OUTDOORS SHALL BE GALVANIZED.
- INCLUDING ROUND DUCTS.
- FLOOR.
- WALL/CEILING.
- CONTRACTOR TO ENSURE CONCEALMENT OF ALL PIPING IN WALLS, FLOORS AND CEILINGS.
- 16. HVAC CONTRACTOR SHALL FURNISH AND INSTALL VALVE TAGS, PIPE LABELS, DUCT LABELS AND EQUIPMENT SPECIFICATIONS FOR MORE INFORMATION.
- SPECIFICATIONS BALANCE REPORT REQUIREMENTS.
- FOUIPMENT
- REVIEW. SEE GENERAL CONDITIONS FOR NUMBER OF SHOP DRAWINGS.
- AND PROPER INSTALLATION OF THE MECHANICAL SYSTEM.
- COORDINATE WORK ALL OTHER TRADES.
- 23. PROVIDE ALL PIPE OPENINGS THROUGH PARTITIONS WITH PIPE SLEEVES.
- INDICATED ON DRAWINGS OR NOT.
- EQUIPMENT SHALL BE HEAVY DUTY TYPE AND SHALL BE NEMA 3R WHEN LOCATED OUTSIDE.
- MATERIAL) AT NO ADDITIONAL COST TO OWNER DURING THE GUARANTEE PERIOD.
- ETC. TO ENSURE CORRECT OPERATION OF INSTALLED DEVICES.
- INSTRUCTIONS, AND RECORD (AS-BUILT) DRAWINGS OF ALL COMPLETED WORK.
- REPAIRED BY THIS CONTRACTOR AT NO ADDITIONAL COST TO FIRE DEPARTMENT.

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I. ALL HVAC WORK SHALL BE INSTALLED IN ACCORDANCE WITH 2020 MECHANICAL CODE, FIRE CODE, PLUMBING CODE, FUEL GAS CODE, BUILDING CODE, AND ENERGY CONSERVATION CONSTRUCTION CODE OF NEW YORK STATE,

2. HVAC CONTRACTOR SHALL PROVIDE ALL EQUIPMENT, PIPING, VALVES, ACCESS DOORS, HANGERS, FITTINGS AND MISCELLANEOUS COMPONENTS NOT NECESSARILY DETAILED ON THESE DRAWINGS TO RENDER THE HVAC SYSTEMS COMPLETE, OPERABLE, AND IN ACCORDANCE WITH APPLICABLE CODES AND GENERALLY ACCEPTED INDUSTRY

3. HVAC CONTRACTOR SHALL SUBMIT SHOP DRAWINGS ON ALL EQUIPMENT TO ENGINEER FOR APPROVAL.

4. HVAC CONTRACTOR SHALL SEAL AROUND ALL PIPE AND DUCT PENETRATIONS THROUGH FIRE RATED WALLS, FLOORS AND CEILINGS WITH HILTI INTUMESCENT FIRE STOP MATERIALS TO MAINTAIN FIRE AND SMOKE RATINGS. DUCTS PENETRATING FIRE RATED WALLS, FLOORS AND CEILINGS SHALL BE INSTALLED WITH FIRE DAMPER AND ACCESS DOORS WHETHER SPECIFICALLY SHOWN ON THE DRAWINGS OR NOT. PROVIDE FIRE STOP SEALANT ON ALL EXISTING PIPING AND DUCTWORK PENETRATING NEW FIRE RATED WALLS CONSTRUCTED AS PART OF THE

5. HVAC CONTRACTOR SHALL NOT DRILL OR CUT ANY STRUCTURAL MEMBERS WITHOUT PERMISSION OF ARCHITECT. 6. ALL EQUIPMENT SHALL BE INSTALLED PER MANUFACTURERS RECOMMENDATIONS.

7. HVAC CONTRACTOR SHALL FURNISH AND INSTALL ALL CONTROL WIRING (24V) FOR SYSTEMS SHOWN ON HVAC DRAWINGS AND DESCRIBED IN HVAC SPECIFICATIONS, INCLUDING ALL RELAYS, TRANSFORMERS, CONDUIT, JUNCTION BOXES, CONDUCTORS, THERMOSTATS, APPURTENANCES AND ALL NECESSARY EQUIPMENT TO MAKE SYSTEMS

8. HVAC CONTRACTOR SHALL PAY FOR ALL PERMITS AND INSPECTION FEES REQUIRED BY LOCAL AUTHORITY HAVING

9. HVAC CONTRACTOR IS RESPONSIBLE FOR COORDINATING ALL CUTTING, PATCHING, AND PAINTING ASSOCIATED WITH HVAC WORK WITH THE GENERAL CONTRACTOR, WHO SHALL PERFORM THE WORK AT HVAC CONTRACTORS COST. ALL FLOORS AND WALLS WHERE A PIPE HAS BEEN REMOVED AND NOT REPLACED SHALL BE PATCHED BY THE GENERAL CONTRACTOR, HVAC CONTRACTOR SHALL COORDINATE LOCATION AND PAY ALL COSTS.

IO. ALL DUCTWORK SHALL BE CONSTRUCTED AND INSTALLED IN ACCORDANCE WITH SHEET METAL AND AIR CONDITIONING HVAC CONTRACTORS NATIONAL ASSOCIATION (SMACNA) DUCT STANDARDS. PROVIDE RADIUS TURNS

II. ALL CONTROL WIRING SHALL BE IN ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE (N.E.C.) AND ALL LOCAL CODES. ALL CONDUCTORS SHALL BE COPPER WITH THHN INSULATION IN EMT CONDUIT. 120V/I - MINIMUM CONDUCTOR SIZE #12. 24V - MINIMUM CONDUCTOR SIZE #18. MINIMUM CONDUIT SIZE SHALL BE 3/4". CONDUIT

12. UNLESS OTHERWISE NOTED, ALL DUCTWORK SHALL BE FABRICATED WITH MINIMUM 26 GAGE GALVANIZED STEEL

13. FINAL LOCATIONS OF ALL THERMOSTATS AND SENSORS SHALL BE APPROVED BY ARCHITECT PRIOR TO INSTALLATION, COORDINATE IN FIELD. THERMOSTATS AND SENSORS SHALL BE LOCATED 4'-O" ABOVE FINISHED

14. HVAC CONTRACTOR SHALL PROVIDE ACCESS DOORS FOR ALL VALVES AND DUCT ACCESSORIES CONCEALED IN WALLS/CEILINGS. ACCESS DOORS SHALL HAVE APPROPRIATE FIRE RATING TO MAINTAIN INTEGRITY OF

15. HVAC CONTRACTOR SHALL COORDINATE FINAL LOCATIONS OF ALL PIPING IN FINISHED AREAS WITH GENERAL

LABELS. LOG ALL TAGS AND LABELS IN A 3-RING BINDER WITH LOCATION, DESCRIPTION AND FUNCTION. SEE

17. HVAC CONTRACTOR SHALL PROVIDE ALL AIR AND HYDRONIC BALANCING FOR ALL NEW HVAC SYSTEMS. PROVIDE ALL NECESSARY MOTOR, DRIVE, BELT CHANGES AND ETC. SEE SPECIFICATIONS FOR BALANCE PROCEDURES AND ADDITIONAL REQUIREMENTS. HVAC CONTRACTOR SHALL COMFORT BALANCE ALL HVAC SYSTEMS TO THE SATISFACTION OF ENGINEER/ARCHITECT. SUBMIT BALANCE REPORT TO ENGINEER. SEE HVAC

18. HVAC CONTRACTOR SHALL BE RESPONSIBLE FOR ALL SUPPLEMENTAL STRUCTURAL STEEL SUPPORT ASSOCIATED WITH NEW HVAC EQUIPMENT HUNG OR SUPPORTED FROM OR ON THE BUILDING STRUCTURE. CONTRACTOR SHALL SUBMIT SHOP DRAWINGS TO ARCHITECT FOR APPROVAL PRIOR TO STEEL FABRICATION AND INSTALLATION OF

19. HVAC CONTRACTOR SHALL SUBMIT PIPING AND DUCTWORK FULLY COORDINATED SHOP DRAWINGS FOR ENGINEERS

20. HVAC CONTRACTOR SHALL INSTRUCT FIRE DEPARTMENT AND KEY PERSONNEL ON OPERATION OF ALL HVAC SYSTEMS. SET ALL THERMOSTATS TO TEMPERATURES AND SCHEDULES AS DIRECTED BY FIRE DEPARTMENT. 21. HVAC CONTRACTOR SHALL INCLUDE IN BID ALL MATERIALS, RIGGING AND LABOR REQUIRED FOR THE COMPLETE

22. HVAC CONTRACTOR TO FIELD VERIFY ALL EXISTING CONDITIONS PRIOR TO THE BEGINNING OF WORK, AND

24. PROVIDE VOLUME DAMPERS ON ALL SUPPLY, RETURN AND EXHAUST BRANCH DUCTWORK, WHETHER SPECIFICALLY

25. ALL MOTOR STARTERS AND DISCONNECT SWITCHES FOR HVAC EQUIPMENT SHALL BE FURNISHED BY THE MECHANICAL CONTRACTOR. DISCONNECT SWITCHES FURNISHED BY THE MECHANICAL CONTRACTOR FOR HYAC

26. HVAC CONTRACTOR SHALL GUARANTEE ALL WORKMANSHIP AND MATERIAL INSTALLED UNDER THIS CONTRACT FREE FROM DEFECTS FOR A PERIOD OF ONE (I) YEAR FROM DATE OF SUBSTANTIAL COMPLETION AND ACCEPTANCE BY THE OWNER AND AGREES TO REPLACE DEFECTIVE WORK (INCLUDING ALL REQUIRED LABOR AND

27. HVAC CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING START-UP OF ALL NEW EQUIPMENT, CONTROLS, AND

28. HVAC CONTRACTOR SHALL PROVIDE OWNER WITH CATALOG DATA, OPERATING INSTRUCTIONS, MAINTENANCE

29. ALL NEW HOLES IN WALLS AND FLOORS SHALL BE CORE DRILLED BY THIS CONTRACTOR. PRIOR TO CORE DRILLING FLOORS, RADAR SCAN FLOOR SLABS. USE CAUTION WHEN CORE DRILLING TO AVOID DAMAGE TO EQUIPMENT, SYSTEMS, STRUCTURE AND ETC. ANY ITEMS DAMAGED AS A RESULT OF CORE DRILLING SHALL BE

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|                             | AIR HANDLING UN    | IT SCHEDULE        |                   |
|-----------------------------|--------------------|--------------------|-------------------|
| DESIGNATION                 | AHU-1              | AHU-2              | AHU-3             |
| LOCATION                    | ATTIC MECH. ROOM   | ATTIC MECH. ROOM   | ATTIC MECH. ROOM  |
| AREA SERVED                 | DAYROOM            | MEETING/TRAINING   | OFFICE/RADIO ROOM |
| MANUFACTURER                | DAIKIN             | DAIKIN             | DAIKIN            |
| MODEL NUMBER                | FTQ48TAVJUD        | FTQ48TAVJUD        | FTQI8TAVJUD       |
| WEIGHT OF UNIT (POUNDS)     | 150                | 150                | 115               |
| UNIT DIMENSIONS LXWXH (IN.) | 2 " × 2 " × 53.43" | 2 " × 2 " × 53.43" | 21" × 17.5" × 45" |
| DESIGN DATA:                |                    |                    |                   |
| SUPPLY AIR (CFM)            | 1520/1290/1060     | 1520/1290/1060     | 600/510/420       |
| OUTDOOR AIR (CFM)           | 120                | 470                | 60                |
| FILTER DATA:                |                    |                    |                   |
| TYPE/EFFICIENCY             | PLEATED/MERV 8     | PLEATED/MERV 8     | PLEATED/MERV 8    |
| QUANTITY                    | I                  | I                  | 1                 |
| HOT WATER COIL DATA:        |                    |                    |                   |
| No. OF ROWS                 | 2                  | 2                  | 2                 |
| EAT (°F) DB                 | 65.0               | 65.0               | 65.0              |
| LAT (°F) DB                 | 116.16             | 116.16             | 130.50            |
| TOTAL CAP. (MBH)            | 88.2               | 88.2               | 44.3              |
| EMT/LMT (°F)                | 180/160.22         | 180/160.22         | 180/161.25        |
| FLUID FLOW RATE (GPM)       | 8.7                | 8.7                | 4.7               |
| FLUID PD (FT)               | 7.5                | 7.5                | 6.07              |
| EVAPORATOR COIL DATA:       |                    |                    |                   |
| EAT (°F) DB/WB              | 80.0/67.0          | 80.0/67.0          | 80.0/67.0         |
| TOTAL CAPACITY (MBH)        | 48.0               | 48.0               | 18.0              |
| SUPPLY FAN DATA:            |                    |                    |                   |
| AIRFLOW VOLUME (CFM)        | 1520/1290/1060     | 1520/1290/1060     | 600/510/420       |
| HP                          | 3/4                | 3/4                | ١/2               |
| ESP (IN H <sub>2</sub> O)   | 0.9                | 0.9                | 0.9               |
| DISCHARGE LOCATION          | TOP                | TOP                | TOP               |
| VOLTS/Ø/Hz                  | 208/1/60           | 208/1/60           | 208/1/60          |
| FIA (AMPS)                  | 65                 | 65                 | 49                |

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MOTOR EFFICIENCY

### NOTES:

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I. UNITS BASED ON DAIKIN.

2. HVAC CONTRACTOR TO COORDINATE COIL CONNECTION AND ACCESS DOOR SIDE IN FIELD PRIOR TO ORDERING. 3. PROVIDE (I) COMPLETE EXTRA SET OF FILTERS FOR EACH UNIT.

ECM

ECM

4. REFER TO PLANS AND SECTIONS FOR AIR HANDLING UNIT SECTION ARRANGEMENTS AND DUCTWORK CONNECTION

LOCATIONS. 5. ALL MOTORS I HP AND LARGER SHALL BE PREMIUM EFFICIENCY. FANS PROVIDED WITH VARIABLE FREQUENCY DRIVES WITH DISCONNECT SWITCHES, SHALL HAVE INVERTER RATED PREMIUM EFFICIENCY MOTORS SUITABLE FOR VARIABLE SPEED AND TORQUE APPLICATIONS. TURN DOWN RATIO OF 10:1.

6. PROVIDE NEMA I DISCONNECT SWITCH FOR AIR HANDLERS

7. CASED HEATING COIL DIVERSIFIED HEAT TRANSFER, INC. MODEL: AHCC-2-210, AHCC-2-175 8. CO2 SENSOR FOR VENTILATION CONTROL ON AIR HANDLERS (AHU-1, 2, 3)

ECM

| DESIGNATION                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | B-1                                                                                                                                                                           | B-2                                                                         |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------|
| LOCATION                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | BOILER ROOM                                                                                                                                                                   | BOILER ROOM                                                                 |
| SERVICE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | HOT WATER                                                                                                                                                                     | HOT WATER                                                                   |
| MANUFACTURER                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | VISEMANN                                                                                                                                                                      | VISEMANN                                                                    |
| MODEL NUMBER                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | CI2 - 750                                                                                                                                                                     | CI2 - 750                                                                   |
| OPERATING WEIGHT (LBS)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 963                                                                                                                                                                           | 963                                                                         |
| WATER CONTENT                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 50.0 GAL                                                                                                                                                                      | 50.0 GAL                                                                    |
| GROSS OUTPUT (MBH)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 734                                                                                                                                                                           | 734                                                                         |
| FUEL SOURCE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | NATURAL GAS                                                                                                                                                                   | NATURAL GAS                                                                 |
| INPUT (MBH)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 750                                                                                                                                                                           | 750                                                                         |
| BOILER HP                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 21.9                                                                                                                                                                          | 21.9                                                                        |
| MIN./MAX. INLET GAS PRESSURE (IN W.C.)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 4.0/14                                                                                                                                                                        | 4.0/14                                                                      |
| LMT/EMT (°F)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 180/160                                                                                                                                                                       | 180/160                                                                     |
| FLOW RATE (GPM)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 58                                                                                                                                                                            | 58                                                                          |
| WATER P.D. (FT.)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | -                                                                                                                                                                             | -                                                                           |
| COMBUSTION EFFICIENCY                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 96.9%                                                                                                                                                                         | 96.9%                                                                       |
| BOILER DESIGN PRESSURE (PSI)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 80                                                                                                                                                                            | 80                                                                          |
| ELECTRICAL REQUIREMENTS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                                                                                                                               | I                                                                           |
| VOLTAGE/φ/Hz.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 120 / 1 / 60                                                                                                                                                                  | 120 / 1 / 60                                                                |
| <ol> <li>ASME CODE, SECTION IV, MAX PRESSURE= 80 PSIG, M</li> <li>ASME CSD-I BOILER CONTROLS.</li> <li>STAINLESS STEEL HEAT EXCHANGER.</li> <li>INTAKE AIR ADAPTER KIT</li> <li>FULL MODULATION, 5:I ACROSS THE FIRING RANGE.</li> <li>VARIABLE SPEED COMBUSTION AIR BLOWER.</li> <li>COMBUSTION EFFICIENCY TO BE CSA CERTIFIED BASE<br/>ANSI Z2I.I3/CSA4.9.</li> <li>BOILERS FURNISHED FOR NATURAL GAS. ALL GAS TR<br/>BE VENTLESS.</li> <li>ASME LABELED</li> <li>EACH BOILER SHALL BE EQUIPPED WITH A INDEPENDE<br/>HIGHLIMT.</li> <li>IO YEAR WARRANTY ON PRESSURE VESSEL AND 2 Y<br/>ACCESSORIES.</li> <li>PROVIDE CONDENSATE TRAP AND ACID NEUTRALIZAT</li> <li>BOILERS SHALL BE FURNISHED WITH ADAPTORS FOR</li> </ol> | 1AX TEMP 220°F.<br>ED ON OPERATING CONDITIONS F<br>AINS AND CONTROLS FURNISHED<br>ENT LOW WATER CUTOFF AND MA<br>EARS ON BOILER ENCLOSURE, B<br>TION SYSTEM.<br>CPVC VENTING. | FOR TESTING UNDER<br>2 WITH BOILERS ARE<br>ANUAL RESET<br>URNER, CONTROLS A |

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|        | DUCTLESS SPLIT SYSTEM EQUIPMENT SCHEDULE |             |                                                                                                                                                                                                                                                                                                                                                                                                  |  |  |  |  |  |  |
|--------|------------------------------------------|-------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|--|--|--|--|--|
| SYMBOL | MANUFACTURER                             | CATALOG #   | DESCRIPTION                                                                                                                                                                                                                                                                                                                                                                                      |  |  |  |  |  |  |
| FCU-1  | DAIKIN                                   | FTXI&UVJU   | INDOOR UNIT-DUCTLESS SPLIT HEAT PUMP, WALL MOUNTED, DISCONNECT SWITCH, FIELD LOCATED WIRED REMOTE<br>CONTROLLER ONE+ WITH EMAIL ALERT CAPABILITY, CONDENSATE PUMP (SI30-230), COOLING 9,000 BTUH MIN.,<br>21,600 MAX., HEATING 9,000 BTUH MIN., RATED 28,000 BTUH @ 47°F - 208/230V, 10                                                                                                          |  |  |  |  |  |  |
| HP-1   | DAIKIN                                   | RXLI&UMVJUA | OUTDOOR UNIT-AIR COOLED INVERTER HEAT PUMP UNIT, R-410A, COOLING 9,000 BTUH MIN., 21,600 BTUH MAX.,<br>HEATING 9,000 BTUH MIN., RATED 28,000 BTUH @ 47°F, RATED 21,600 BTUH @ 5°F, INVERTER DRIVEN COMPRESSOF<br>BASE PAN HEATER, EXPANSION VALVE, LOW AMBIENT WIND BAFFLE/AIR ADJUSTMENT GRILLE, NEMA 3R DISCONNEC<br>SWITCH SEER 20.3, HSPF 10.3 - MCA 18.7 AMPS, MOP 20.0 AMPS - 208/230V, 10 |  |  |  |  |  |  |

|                               | CC-1                 | CC-2                | CC-3            |
|-------------------------------|----------------------|---------------------|-----------------|
| AREA SERVED                   | DAYROOM              | MEETING/TRAINING RM | OFFICE/RADIO RM |
| UNIT SERVED                   | AHU-I                | AHU-2               | AHU-3           |
| MODEL NUMBER                  | RZQ48TAVJUA          | RZQ48TAVJUA         | RZQIBTAVJUA     |
| SEER/EER - MAX.               | 14.8/9.5             | 14.8/9.5            | 15.5/12.5       |
| WEIGHT OF UNIT (POUNDS)       | 225                  | 225                 | 175             |
| CONDENSER DATA:               |                      |                     |                 |
| AMBIENT TEMPERATURE (°F)      | 95                   | 95                  | 95              |
| No. OF ROWS/FPI               | 2/19                 | 2/19                | 2/19            |
| No. OF FANS                   | 2                    | 2                   | Ι               |
| FAN MOTOR (EACH)              | 70 WATTS             | TO WATTS            | 200 WATTS       |
| AIR FLOW                      | 3741 CFM             | 3741 CFM            | 2682 CFM        |
| COMPRESSOR DATA:              |                      |                     |                 |
| REFRIGERANT TYPE              | R-410A               | R-410A              | R-410A          |
| COMPRESSOR TYPE               | SCROLL               | SCROLL              | SCROLL          |
| REFRIGERATION EFFECT<br>(MBH) | 48.0                 | 48.0                | 18.0            |
| CAPACITY CONTROL              | 14-100 STEPS         | 14-100 STEPS        | 14-100 STEPS    |
| SINGLE POINT POWER CONN       | NECTION ELECTRICAL E | DATA:               |                 |
| VOLTS/Φ/Hz                    | 208/1/60             | 208/1/60            | 208/1/60        |
|                               | 201/35               | 201/35              | 165/20          |

• 115 VOLT TRANSFORMER

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 CRANKCASE HEATER CRAINCCASE HEATER
 LOW AMBIENT COOLING CONTROLS, WINTER START KIT, HARD SHUTOFF TXV, COMPRESSOR START ASSIST - CAPACITOR AND RELAY
 LOUVERED COIL GUARD, FILTER DRYER

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LIQUID LINE SOLENOID VALVES

|                      |            |          |          |                                        |                      |                              | v              | ENTILATION       | SCHEDULE                       |                               |                       |                           |                            |                          |                     |                     |
|----------------------|------------|----------|----------|----------------------------------------|----------------------|------------------------------|----------------|------------------|--------------------------------|-------------------------------|-----------------------|---------------------------|----------------------------|--------------------------|---------------------|---------------------|
| Space Name           | Gross Area | Net Area | Ra       | Ventilation based on<br>Net Floor Area | Occupanct<br>Density | Calculated<br>Occupants (Pz) | People<br>Used | Rp<br>Cfm/Person | Ventilation based<br>on People | Total OA<br>Ventilation (Vbz) | Zone Air Distribution | Zone OA<br>Required (Voz) | OA Ventilation<br>Provided | Exhaust<br>Airflow Rates | Exhaust<br>Required | Exhaust<br>Provided |
|                      | sqft       | sqft     | CFM/sqft | CFM                                    | #/1000 sqft          |                              |                |                  | CFM                            | CFM                           |                       | CFM                       | CFM                        | CFM/sqft                 | CFM                 | CFM                 |
| Lobby 100            | 152        | 35       | 0.06     | 3 +                                    | 30                   | 1.1                          | 1              | 5                | 5 =                            | = 8 >                         | 0.8                   | 10                        | 10                         | -                        | -                   | -                   |
| Radio Room 101       | 126        | 54       | 0.06     | 4 +                                    | - 5                  | 0.3                          | 1              | 5                | 5 =                            | = 9 >                         | 0.8                   | 12                        | 15                         | -                        | -                   | -                   |
| Office 102           | 213        | 78       | 0.06     | 5 +                                    | . 5                  | 0.4                          | 1              | 5                | 5 =                            | = 10 >                        | ( 0.8                 | 13                        | 15                         | -                        | -                   | -                   |
| Day Room 103         | 638        | 388      | 0.06     | 24 +                                   | 30                   | 11.6                         | 12             | 5                | 60 =                           | = 84 >                        | 0.8                   | 105                       | 110                        | -                        | -                   | -                   |
| Kitchen 104          | 220        | 114      | 0        | 1 +                                    | 0                    | 0.0                          | 1              | 0                | 0 =                            | = 1 >                         | 0.8                   | 2                         | 60                         | 0.7                      | 80                  | 300                 |
| Hallway 105 A        | 146        | 46       | 0.06     | 3 +                                    | 0                    | 0.0                          | 1              | 0                | 0 =                            | = 3 >                         | ( 0.8                 | 4                         | 5                          | -                        | -                   | -                   |
| Hallway 105 B        | 136        | 21       | 0.06     | 2 +                                    | · 0                  | 0.0                          | 1              | 0                | 0 =                            | = 2 >                         | 0.8                   | 3                         | 5                          | -                        | -                   | -                   |
| Meeting/Training 106 | 656        | 460      | 0.06     | 28 +                                   | 100                  | 46.0                         | 46             | 7.5              | 345 =                          | = 373 >                       | ( 0.8                 | 467                       | 470                        | -                        | -                   | -                   |
| Clean Room 107       | 184        | 68       | -        | - +                                    | · _                  | -                            | -              | -                | - =                            | - >                           | ( 0.8                 | -                         | -                          | 70 PER FIX               | 70                  | 100                 |
| Laundry Room 108     | 234        | 120      | -        | - +                                    | · _                  | -                            | -              | -                | - =                            | = - >                         | ( 0.8                 | -                         | -                          | 70 PER FIX               | 70                  | 100                 |
| Toilet 110           | 61         | 14       | -        | - +                                    | · _                  | -                            | -              | -                | - =                            | - >                           | ( 0.8                 | -                         | -                          | 70 PER FIX               | 140                 | 150                 |
| Utility 111          | 75         | 19       | -        | - +                                    | · _                  | -                            | -              | -                |                                | - >                           | 0.8                   | -                         | -                          | -                        | 50                  | 50                  |
| Gear Room 112        | 344        | 203      | 0        | 1 +                                    | 0                    | 0.0                          | 1              | 0                | 0 =                            | = 1 >                         | ( 0.8                 | 2                         | 110                        | 0.5                      | 102                 | 140                 |
| Apparatus Room 113   | 6280       | 5384     | 0        | 1 +                                    | 0                    | 0.0                          | 1              | 0                | 0 =                            | = 1 >                         | ( 0.8                 | 269                       | 315                        | 0.05                     | 269                 | 315                 |
| Sprinkler Room 115   | 224        | 119      | 0        | 1 +                                    | 0                    | 0.0                          | 1              | 0                | 0 =                            | = 1 >                         | ( 0.8                 | 2                         | 110                        | 0.12                     | 14                  | 100                 |
| Storage 116          | 147        | 60       | 0        | 1 +                                    | 0                    | 0.0                          | 1              | 0                | 0 =                            | = 1 >                         | ( 0.8                 | 2                         | 110                        | 0.12                     | 7                   | 50                  |
| Electric Room 117    | 200        | 100      | 0        | 1 +                                    | 0                    | 0.0                          | 1              | 0                | 0 =                            | = 1 >                         | ( 0.8                 | 2                         | 110                        | 0.18                     | 18                  | 200                 |
| Toilet 121           | 87         | 20       | -        | - +                                    | -                    | -                            | -              | -                | - =                            | - >                           | ( 0.8                 | -                         | -                          | 70 PER FIX               | 170                 | 200                 |
| Toilet 122           | 87         | 20       | _        | - +                                    | · _                  | -                            | -              | -                | - =                            | - >                           | 0.8                   | -                         | -                          | 70 PER FIX               | 170                 | 200                 |

• REFRIG CIRC/COMPRESSOR STAGING - VARIABLE SPEED

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| LOUV                     | LOUVER SCHEDULE |            |  |  |  |  |  |  |  |  |
|--------------------------|-----------------|------------|--|--|--|--|--|--|--|--|
| DESIGNATION              | L-1, 3, 4, 6    | L-2, 5     |  |  |  |  |  |  |  |  |
| MODEL NUMBER             | ESD-435         | ESD-435    |  |  |  |  |  |  |  |  |
| LOCATION                 | ATTIC           | 122        |  |  |  |  |  |  |  |  |
| DIMENSIONS LXHXD (IN.)   | 24"x24"x4"      | 30"xl8"x4" |  |  |  |  |  |  |  |  |
| SHAPE                    | RECTANGLE       | RECTANGLE  |  |  |  |  |  |  |  |  |
| MIN. FREE AREA (SQ. FT.) | 1.81            | 1.58       |  |  |  |  |  |  |  |  |
| FREE AREA (%)            | 45.0            | 42.1       |  |  |  |  |  |  |  |  |
| BLADE ANGLE              | 35              | 35         |  |  |  |  |  |  |  |  |
| MATERIAL                 | ALUMINUM        | ALUMINUM   |  |  |  |  |  |  |  |  |

### NOTES:

- LOUVERS BASED ON GREENHECK 2. COORDINATE EXACT LOUVER SIZE WITH ARCHITECTURAL PLANS AND WITH WALL OPENINGS IN THE FIELD. ALL LOUVERS SHALL HAVE FACTORY POWDER COAT FINISH,
- COLOR TO BE SELECTED BY ARCHITECT. SUBMIT COLOR CHART FOR REVIEW.
- ALL LOUVERS SHALL BE PROVIDED WITH BIRD SCREENS AND EXTENDED SILLS AND FRAMES.
   LOUVERS SHALL BE PROVIDED BY THE HVAC CONTRACTOR AND
- INSTALLED BY THE GENERAL CONTRACTOR. 6. LOUVERS SHALL BARE THE AMCA SEAL.



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| I            |                    | I                        |                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
|--------------|--------------------|--------------------------|-------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|              |                    |                          |                   | MECHANICAL EQUIPMENT SCHEDULE                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
|              | SYMBOL             | MANUFACTURER             | CATALOG #         | DESCRIPTION                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
|              |                    |                          |                   | CONDENSATE DRAIN PIPING. SCHEDULE 40 PVC                                                                                                                                                                                                                                                                                                                                                                                                                                         |
|              | — HWS —<br>— HWR — |                          |                   | HYDRONIC PIPING, COPPER TYPE "L" UP TO 2". ABOVE 2" USE SCHEDULE 40 STEEL WITH SCREWED JOINTS. BOILER<br>HEADER SHALL BE PIPED WITH SCHEDULE 40 STEEL. INSULATE WITH FIBERGLASS PIPE INSULATION WITH VAPOR<br>PROOF JACKET, TAPED JOINTS AND PVC FITTING COVERS. EXPOSED PIPING SHALL BE COVERED WITH PVC PIPE<br>COVER AND PAINTED. SEE THIS DRAWING FOR INSULATION THICKNESS SCHEDULE.                                                                                         |
|              |                    |                          |                   | REFRIGERANT PIPING SHALL BE COPPER TUBING TYPE ACR HARD DRAWN. WROUGHT COPPER FITTINGS, SILVER<br>BRAZE JOINTS. SIZE REFRIGERANT PIPING PER MANUFACTURER'S RECOMMENDATIONS BASED ON ELEVATION AND<br>LENGTH. INSULATE SUCTION LINE WITH I ½" ELASTROMETRIC CELLULAR FOAM. CONCEAL REFRIGERATION PIPING IN<br>EXTERIOR WALL PARTITION AND ABOVE CEILING.                                                                                                                          |
|              | G                  |                          |                   | NATURAL GAS PIPING, SCHEDULE 40 STEEL WITH SCREWED JOINTS UP TO 3" DIAMETER. WELDED JOINTS ON ALL F<br>SIZES ABOVE 3" DIAMETER.                                                                                                                                                                                                                                                                                                                                                  |
|              |                    |                          |                   | GAS VALVE FULL PORT, AGA APPROVED.                                                                                                                                                                                                                                                                                                                                                                                                                                               |
|              |                    | NIBCO                    |                   | BALL VALVE, BRONZE BODY, FULL PORT.                                                                                                                                                                                                                                                                                                                                                                                                                                              |
|              |                    | NIBCO                    |                   | CHECK VALVE, BRONZE BODY SWING.                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
|              | <u> </u>           |                          |                   | INSTRUMENTATION & CONTROL.                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
|              | FD<br>T            |                          |                   | FIRE DAMPER                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
|              |                    |                          |                   | GAS VALVE FULL PORT, AGA APPROVED.                                                                                                                                                                                                                                                                                                                                                                                                                                               |
|              |                    |                          |                   | TRAP.                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
|              | L                  |                          |                   | TURNING VALVES.                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
|              |                    |                          |                   | DUCTWORK, GALVANIZED STEEL, THICKNESS PER SMACNA STANDARDS. MNIMUM 26 GAUGE                                                                                                                                                                                                                                                                                                                                                                                                      |
|              | <b>F</b>           |                          |                   | VOLUME DAMPER, SEE SPECIFICATION SECTION 23 33 00 AIR DUCT ACCESSORIES & 23 09 00<br>INSTRUMENTATION & CONTROL.                                                                                                                                                                                                                                                                                                                                                                  |
|              |                    | FLEXMASTER<br>USA, INC.  | TYPE 4M           | FLEXIBLE DUCTWORK, MECHANICAL LOCK HELIX, FIBERGLASS INSULATION, FIRE RETARDANT<br>ALUMINUM OUTER JACKET, UL 181 CLASS I AIR DUCT. MAXIMUM LENGTH (6'-0")                                                                                                                                                                                                                                                                                                                        |
| ALTERNATE #3 | UH-1,2,3,4         | BEACON<br>MORRIS         | HB-204            | HORIZONTAL UNIT HEATER, HOT WATER. OUTPUT 115,070 BTU/HR @ 180°F E.W.T., 14.9 GPM, 2900 CFM, WITH<br>DISCONNECT SWITCH, AQUASTAT FAN START, 120V/1.                                                                                                                                                                                                                                                                                                                              |
|              | CH-1, 2            | BEACON<br>MORRIS         | WI20              | CABINET HEATER TWIN-FLO III RECESSED WALL MOUNT, AQUASTAT FAN START, TAMPER PROOF FASTENERS AND CONTROLS. HEATING CAPACITY II,755 BTU/HR @ 180°F E.W.T 2.0 GPM - 127 CFM - 120V/I.                                                                                                                                                                                                                                                                                               |
|              | EF-1, 3            | GREENHECK                | 5P-A290-QD        | CABINET EXHAUST FAN, BACKDRAFT DAMPER, DISCONNECT SWITCH, BACKDRAFT DAMPER, ISOLATORS & BRACKE<br>& SPRING HANGING KIT, FLEXIBLE DUCT CONNECTOR, WALL MOUNTED SPEED SWITCH, 257 CFM @ .25" W.C., - 120V                                                                                                                                                                                                                                                                          |
|              | EF-2               | GREENHECK                | SP-A200-QD        | CABINET EXHAUST FAN, BACKDRAFT DAMPER, DISCONNECT SWITCH, BACKDRAFT DAMPER, ISOLATORS & BRACKI<br>& SPRING HANGING KIT, FLEXIBLE DUCT CONNECTOR, WALL MOUNTED SPEED SWITCH, 224 CFM @ .25" W.C., - I2OV/                                                                                                                                                                                                                                                                         |
|              | EF-4, 6            | GREENHECK                | 5Q-80-VG          | INLINE CABINET EXHAUST FAN, BACKDRAFT DAMPER, VARI-GREEN REMOTE DIAL MOUNTED IN ROOM, VARI-GREEN<br>TRANSFORMER FIELD MOUNTED AND WIRED, DISCONNECT SWITCH, BACKDRAFT DAMPER, MOTOR COVER, ISOLATC<br>& BRACKETS & SPRING HANGING KIT, FLEXIBLE DUCT CONNECTORS, 200 CFM @ .5" W.C., 1/0 HP - 120V/I                                                                                                                                                                             |
|              | EF-5               | GREENHECK                | 5Q-80-VG          | INLINE CABINET EXHAUST FAN, BACKDRAFT DAMPER, VARI-GREEN REMOTE DIAL MOUNTED ON FAN, VARI-GREEN<br>TRANSFORMER FIELD MOUNTED AND WIRED, DISCONNECT SWITCH, BACKDRAFT DAMPER, MOTOR COVER, ISOLATC<br>& BRACKETS & SPRING HANGING KIT, FLEXIBLE DUCT CONNECTORS, 140 CFM @ .4" W.C., 1/0 HP - 120V/1                                                                                                                                                                              |
|              | EF-7, 8            | GREENHECK                | 5Q-80-VG          | INLINE CABINET EXHAUST FAN, BACKDRAFT DAMPER, VARI-GREEN REMOTE DIAL MOUNTED ON FAN, VARI-GREEN<br>TRANSFORMER FIELD MOUNTED AND WIRED, DISCONNECT SWITCH, BACKDRAFT DAMPER, MOTOR COVER, ISOLATC<br>& BRACKETS & SPRING HANGING KIT, FLEXIBLE DUCT CONNECTORS, 170 CFM @ .5" W.C., 1/6 HP - 120V/I                                                                                                                                                                              |
|              | DF-1               | FANTECH                  | DEDPV-705 UL      | UL LISTED DRYER EXHAUST FAN. PRESSURE-SENSING SWITCH AUTOMATICALLY TURNS ON THE FAN, ABLE TO EXHAU<br>UP TO 120'-O" OF 4"\$\Phi GALVANIZED STEEL DUCT, AND WALL MOUNTED OPERATION INDICATOR SIGN. FAN MUST BE<br>INSTALLED 5'-O" FROM DRYER OUTLET, PROVIDE AND INSTALL SECONDARY LINT TRAP (DBLT 4W) BEFORE THE FA<br>PROVIDE FC VIBRATION ISOLATION CLAMPS FOR DUCT CONNECTIONS AND MOUNTING BRACKET. INDICATOR SIGN<br>SHALL BE INSTALLED WITHIN LAUNDRY ROOM FAN IS SERVING. |
|              |                    | TAMARACK<br>TECHNOLOGIES | CAPE<br>BACKDRAFT | 4" DIAMETER CAPE BACKDRAFT ULTIMATE AIRFLOW DAMPER                                                                                                                                                                                                                                                                                                                                                                                                                               |
|              | ERV-1              | RENEWAIRE                | EV450             | ENERGY RECOVERY UNIT, 315 CFM @ .4" W.C. TOTAL EFF % WINTER/SUMMER (6%) WITH TWO POSITION DAMPER<br>MOTORIZED DAMPERS ON INTAKE AND EXHAUST AIR DUCT, SOLID STATE SPEED CONTROLLER MOUNTED NEAR<br>UNIT. (1)5 HP ECM MOTOR - 120V/1                                                                                                                                                                                                                                              |
|              | RH-1               | FRIGIDAIRE               | FHWC3640MS        | RANGE HOOD 36" UNDER-CABINET STAINLESS STEEL FINISH, BACKDRAFT DAMPER, 7"\$ EXHAUST DUCT CONNECTIO<br>300 CFM, WITH HANDICAP ACCESSIBLE SWITCHES. LAMPS: (2) HALOGEN 50 WATT - 120V/1                                                                                                                                                                                                                                                                                            |
|              | RC-1               | GREENHECK                | RJ - IOXIO        | PITCHED ROOF CAP CONSTRUCTED OF STEEL. THROAT (IO"W x IO"L) WITH INTEGRAL FLASHING, BUILT-IN BIRDSCRI<br>AND DAMPER. POWDER COAT PAINT COLOR AS DIRECTED BY ARCHITECT.                                                                                                                                                                                                                                                                                                           |
| ALTERNATE #1 | нх-1               | BELL & GOSSETT           | BP423-30          | BRAZED PLATE HEAT EXCHANGER, I PASS, 24 CHANNELS, PLATE MATERIAL 316L SS, BRAZING MATERIAL COPPER<br>DESIGN PRESSURE 435 PSI. BOILER SIDE: WATER FLOW 40 GPM, INLET TEMP 180°F, OUTLET TEMP 160°F, PRESSUR<br>DROP 2.35 PSI, . SNOW MELT SIDE: 35% PROPYLENE GLYCOL FLOW 40 GPM, INLET TEMP 130°F, OUTLET TEMP 110°<br>PRESSURE DROP 2.07 PSI. TOTAL HEAT EXCHANGED 412.482 BTU/HR WITH FIELD FABRICATED STAND                                                                   |

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|------------------------------------------------------------------------------------------------------------------------------------------------|---|-------------------|--------------|-------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                                                                                                                                |   |                   |              |                                     | MECHANICAL EQUIPMENT SCHEDU                                                                                                                                                                                                |
|                                                                                                                                                |   | SYMBOL            | MANUFACTURER | CATALOG #                           | DESC                                                                                                                                                                                                                       |
| WED JOINTS. BOILER<br>FION WITH VAPOR                                                                                                          |   | P-1, 2            | GRUNDFOS     | TPE3 65-150<br>S-A-G-A-BQQE<br>-GBB | SINGLE STAGE, CLOSED COUPLE, VOLUTE PUMP IN<br>FACTORY START-UP, AUTO ADAPT, FLOWADAPT,<br>PRESSURE CONTROL, AND CONSTANT-TEMPERATI<br>MAX. WORKING PRESSURE 174 PSI, MAX. OPERAT<br>86 GPM @ 40 FT. HEAD, I.5 HP - 208V/3 |
| FITTINGS, SILVER<br>ON ELEVATION AND<br>GERATION PIPING IN                                                                                     |   | P-3, 4            | GRUNDFOS     | MAGNA3<br>40-180 F                  | MAGNA SERIES INLINE VARIABLE SPEED PUMP W<br>FLOWADAPT, AND FLOW LIMIT. PROPORTIONAL-<br>CONSTANT-TEMPERATURE CONTROL. SEALS COM<br>174 PSI, MAX. OPERATING TEMPERATURE 230°F.<br>POWER INPUT 16 -285 WATTS - 120V/I       |
| D JOINTS ON ALL PIPE                                                                                                                           |   | P-5, 6            | GRUNDFOS     | MAGNA3<br>40-180 F                  | MAGNA SERIES INLINE VARIABLE SPEED PUMP W<br>FLOWADAPT, AND FLOW LIMIT. PROPORTIONAL-<br>CONSTANT-TEMPERATURE CONTROL. SEALS COM<br>174 PSI, MAX. OPERATING TEMPERATURE 230°F.<br>POWER INPUT 16 - 606 WATTS - 120V/1      |
|                                                                                                                                                |   | P-7, 8            | GRUNDFOS     | MAGNA3<br>32-120 F                  | MAGNA SERIES INLINE VARIABLE SPEED PUMP W<br>FLOWADAPT, AND FLOW LIMIT. PROPORTIONAL-<br>CONSTANT-TEMPERATURE CONTROL. SEALS COM<br>174 PSI, MAX. OPERATING TEMPERATURE 230°F.<br>POWER INPUT 9.1 - 187 WATTS - 120V/1     |
|                                                                                                                                                |   | P-9, 10           | GRUNDFOS     | TPE3 40-150<br>S-A-G-A-BQQE<br>-GBB | SINGLE STAGE, CLOSED COUPLE, VOLUTE PUMP IN<br>FACTORY START-UP, AUTO ADAPT, FLOWADAPT,<br>PRESSURE CONTROL, AND CONSTANT-TEMPERATI<br>MAX. WORKING PRESSURE 174 PSI, MAX. OPERAT<br>73 GPM @ 15 FT. HEAD, I.5 HP - 208V/3 |
|                                                                                                                                                |   | P-11, 12          | GRUNDFOS     | TPE 50-240/2<br>A-G-Z-BUBE<br>-HBB  | SINGLE STAGE, CLOSED COUPLE, INLINE VARIAB<br>FACTORY START-UP, AUTO ADAPT, FLOWADAPT,<br>PRESSURE CONTROL, AND CONSTANT-TEMPERATI<br>MAX. WORKING PRESSURE 174 PSI, MAX. OPERAT<br>40 GPM @ 57 FT. HEAD, 2.0 HP - 208V/3  |
|                                                                                                                                                |   | ET-1              | AMTROL       | 500-L                               | HYDRONIC EXPANSION TANK, HEAVY DUTY BUTY                                                                                                                                                                                   |
| )                                                                                                                                              |   | (D <sub>H/C</sub> | DAIKIN       | BACRC-THOC-POI                      | ADAPTIVE TOUCH CONTROLLER, BUILT IN TEMPE<br>SENSOR PROGRAMMABLE MULTI-STAGE REMOTE<br>EMERGENCY HEAT SWITCH,. LOW VOLTAGE (24V)                                                                                           |
| .EM, WITH                                                                                                                                      | ] | Ū,                |              |                                     | RADIANT HEAT THERMOSTAT, NON-PROGRAMMA<br>(24V). WITH CLEAR LOCKING COVER UNLESS OT                                                                                                                                        |
| FASTENERS AND                                                                                                                                  |   | Ū,                |              |                                     | PROGRAMMABLE MULTISTAGE THERMOSTAT,<br>PROGRAMMABLE WITH SET BACK CAPABILITIES<br>OTHERWISE NOTED.                                                                                                                         |
| ALATORS & BRACKETS<br>a.25" M.C., - 120V/I<br>ALATORS & BRACKETS<br>a.25" M.C., - 120V/I<br>ROOM, VARI-GREEN<br>R COVER, ISOLATORS<br>- 120V/I |   | [                 | 1            | <u> </u>                            |                                                                                                                                                                                                                            |

|                                                   |                                                                |                   | REGISTER/GRILLE SCHEDULE                                                                                                                                                                                          |                                                                                                                                                                                       |
|---------------------------------------------------|----------------------------------------------------------------|-------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| SYMBOL                                            | MANUFACTURER                                                   | CATALOG #         | DESCRIPTIO                                                                                                                                                                                                        | N                                                                                                                                                                                     |
| CD-A                                              | PRICE                                                          | SCDA              | CEILING DIFFUSER, CONSTRUCTED OF STEEL LAY-IN<br>(24" × 24") COORDINATE WITH CEILING GRID TYPE,<br>ADJUSTABLE AIR PATTERN, ROUND NECK, 4-WAY<br>DEFLECTION, BUTTERFLY DAMPER. WHITE                               | NECK SIZECFM RANGE $6"\Phi$ $O-IOO$ CFM $8"\Phi$ $IOI-230$ CFM $IO"\Phi$ $23I-300$ CFM $I2"\Phi$ $3OI-400$ CFM $I4"\Phi$ $4OI-500$ CFM                                                |
| CD-B                                              | PRICE                                                          | SMDA              | CEILING DIFFUSER, CONSTRUCTED OF STEEL,<br>SURFACE MOUNTED 2-WAY DEFLECTION, ADJUSTABLE<br>AIR PATTERN AND OPPOSED BLADE DAMPER. LAY-IN<br>CEILING MODULE (24" x 24") COORDINATE WITH<br>CEILING GRID TYPE. WHITE | NECK SIZE CFM RANGE<br>$6" \times 6" \longrightarrow 0-100 \text{ CFM}$<br>$9" \times 9" \longrightarrow 101-200 \text{ CFM}$<br>$12" \times 12" \longrightarrow 201-300 \text{ CFM}$ |
| RG-C                                              | PRICE                                                          | 535               | RETURN GRILLE, CONSTRUCTED OF STEEL, SURFACE<br>MOUNTED 45° DEFLECTION, ½" BLADE SPACING<br>(14" x 10"). WHITE                                                                                                    | 4" ×  0" → 0- 65 CFM                                                                                                                                                                  |
| RG-D                                              | PRICE                                                          | 535               | RETURN GRILLE, CONSTRUCTED OF STEEL, SURFACE<br>MOUNTED 45° DEFLECTION,                                                                                                                                           | 18" × 14" → 0-320 CFM                                                                                                                                                                 |
| SG-E                                              | PRICE                                                          | 520               | SUPPLY REGISTER, CONSTRUCTED OF STEEL,<br>SURFACE MOUNTED DOUBLE DEFLECTION, <sup>3</sup> / <sub>4</sub> " BLADE<br>SPACING (16" × 14"). WHITE                                                                    | 6" x  4" → 0-320 CFM                                                                                                                                                                  |
| RG-F                                              | PRICE                                                          | 80                | RETURN REGISTER, WALL OR CEILING MOUNTED AS<br>SHOWN, ½" EGG CRATE TYPE ALUMINUM<br>CONSTRUCTION, 24" × 12", WHITE.                                                                                               | 24" x  2" → 0-900 cFM                                                                                                                                                                 |
| RG-G                                              | PRICE                                                          | 80                | RETURN REGISTER, WALL OR CEILING MOUNTED AS<br>SHOWN, ½" EGG CRATE TYPE ALUMINUM<br>CONSTRUCTION, LAY-IN 24" x 24", WHITE.                                                                                        | 24" x 24" <i>→ 0-1800 C</i> FM                                                                                                                                                        |
| RG-H                                              | PRICE                                                          | 80                | RETURN REGISTER, WALL OR CEILING MOUNTED AS<br>SHOWN, ½" EGG CRATE TYPE ALUMINUM<br>CONSTRUCTION WITH OPPOSED BLADE DAMPER,<br>24" × 12", WHITE.                                                                  | 24" x  2" → 0-900 CFM                                                                                                                                                                 |
| ⊞<br>RG-I                                         | PRICE                                                          | 80                | RETURN REGISTER, WALL OR CEILING MOUNTED AS SHOWN, $ at blue E = 1 \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \$                                                                                                           | 8" × 8">O-80 CFM                                                                                                                                                                      |
| RG-I<br>NOTES:<br>I. HVAC (<br>PREVE<br>2. HVAC ( | CONTRACTOR SHALL IN<br>NT CONDENSATION.<br>CONTRACTOR SHALL IN | ISULATE THE BACKS | 8" x 8", WHITE.<br>6 OF ALL DIFFUSERS AND GRILLES WITH I" THICK FIBERGLA<br>E THE INTERIOR OF ALL PLENUM BOXES AND PAINT ALL IN                                                                                   | SS INSULATION W/VAPOR JACKET TO                                                                                                                                                       |

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| HEDULE CON'T                                                                                                                                                                                                                                                     |
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| DESCRIPTION                                                                                                                                                                                                                                                      |
| PUMP INLINE VARIABLE SPEED PUMP WITH WIRELESS REMOTE CONTROL,<br>ADAPT, AND FLOW LIMIT. PROPORTIONAL-PRESSURE CONTROL, CONSTANT<br>PERATURE CONTROL. SEALS COMPATIBLE WITH 35% PROPYLENE GLYCOL.<br>PERATING TEMPERATURE 230°F. MOTOR STARTER H-O-A W/OVERLOADS. |
| PUMP WITH WIRELESS REMOTE CONTROL, FACTORY START-UP, AUTO ADAPT,<br>IONAL-PRESSURE CONTROL, CONSTANT PRESSURE CONTROL, AND<br>.S COMPATIBLE WITH 35% PROPYLENE GLYCOL. MAX. WORKING PRESSURE<br>230°F. MOTOR STARTER H-O-A WOVERLOADS. 40 GPM @ 14 FT. HEAD,     |
| PUMP WITH WIRELESS REMOTE CONTROL, FACTORY START-UP, AUTO ADAPT,<br>IONAL-PRESSURE CONTROL, CONSTANT PRESSURE CONTROL, AND<br>.S COMPATIBLE WITH 35% PROPYLENE GLYCOL. MAX. WORKING PRESSURE<br>230°F. MOTOR STARTER H-O-A W/OVERLOADS. 29 GPM @ 38 FT. HEAD,    |
| PUMP WITH WIRELESS REMOTE CONTROL, FACTORY START-UP, AUTO ADAPT,<br>IONAL-PRESSURE CONTROL, CONSTANT PRESSURE CONTROL, AND<br>S COMPATIBLE WITH 35% PROPYLENE GLYCOL. MAX. WORKING PRESSURE<br>230°F. MOTOR STARTER H-O-A W/OVERLOADS. 14 GPM @ 15 FT. HEAD,     |
| PUMP INLINE VARIABLE SPEED PUMP WITH WIRELESS REMOTE CONTROL,<br>ADAPT, AND FLOW LIMIT. PROPORTIONAL-PRESSURE CONTROL, CONSTANT<br>PERATURE CONTROL. SEALS COMPATIBLE WITH 35% PROPYLENE GLYCOL.<br>PERATING TEMPERATURE 230°F. MOTOR STARTER H-O-A W/OVERLOADS. |
| /ARIABLE SPEED PUMP WITH INTEGRATED FREQUENCY CONVERTER,<br>ADAPT, AND FLOW LIMIT. PROPORTIONAL-PRESSURE CONTROL, CONSTANT<br>PERATURE CONTROL. SEALS COMPATIBLE WITH 35% PROPYLENE GLYCOL.<br>PERATING TEMPERATURE 230°F. MOTOR STARTER H-O-A WOVERLOADS.       |
| Y BUTYL BLADDER, TANK VOLUME 132 GALLONS                                                                                                                                                                                                                         |
| TEMPERATURE SENSOR, HUMIDITY SENSOR, CO2 SENSOR AND OCCUPANCY<br>REMOTE SENSING, PROGRAMMABLE FAN, OUTDOOR DAMPER CONTROL,<br>E (24V). WITH CLEAR LOCKING COVER UNLESS OTHERWISE NOTED.                                                                          |
| RAMMABLE, SLAB SENSOR/ROOM TEMPERATURE ACTIVATION. LOW VOLTAGE<br>.ESS OTHERWISE NOTED.                                                                                                                                                                          |
| STAT, HEAT/COOL WITH ON/OFF/AUTO FAN SWITCH, 5-1-1 DAY,<br>BILITIES, LOW VOLTAGE (24V). WITH CLEAR LOCKING COVER UNLESS                                                                                                                                          |





| • <u><u>510KAG</u>E</u>                                      | WITH MANUFACTURERS<br>SPECIFICATIONS.                                                          |               |                                        |                                          |                        |
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| MECHANICAL<br>ROOM                                           |                                                                                                |               |                                        |                                          |                        |
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|                                                              |                                                                                                | No.           | REVISION/SU                            | BMISSION                                 | DATE                   |
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| Ŷ                                                            |                                                                                                |               | G                                      | ERARL                                    | 2                      |
|                                                              |                                                                                                |               | AS                                     | SOCIATE                                  | S                      |
| DELIVERY/PICK-                                               | -UP                                                                                            |               | 223 MAIN STREET                        | GOSHEN NY 10                             | <b>.C.</b><br>924      |
|                                                              |                                                                                                |               | TEL: (84<br>info@GerardAssociates.com  | 5) 291 1272<br>www.GerardAssociates.     | com                    |
|                                                              |                                                                                                | Structural E  | G<br>Engineer                          | A21063                                   |                        |
|                                                              |                                                                                                |               |                                        |                                          |                        |
|                                                              |                                                                                                |               | ZEWCZAK                                | ASSOC                                    | [ATES                  |
|                                                              |                                                                                                | $\frac{1}{C}$ | ONSULTING F                            | NGINEERS                                 |                        |
|                                                              |                                                                                                | 200           | Fisher Drive Av                        | von, Connecticut                         |                        |
|                                                              |                                                                                                | pho           | ne 860.677.4570 fax                    | x 860.676.0814                           |                        |
|                                                              |                                                                                                |               |                                        |                                          |                        |
|                                                              |                                                                                                |               | LISO                                   | CUM                                      |                        |
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|                                                              |                                                                                                | H             |                                        | nVoor                                    | hic                    |
|                                                              |                                                                                                |               | 181 CH                                 | URCH STREET                              | I II J LLP             |
|                                                              |                                                                                                | ARC<br>Plann  | HITECTURE POUGH<br>ING INTERIORS PHONE | IKEEPSIE, NEW YORK<br>845-452-2268 FAX 8 | 12601<br>345-452-3752  |
|                                                              |                                                                                                | PROJEC        |                                        |                                          |                        |
| SEISMIC DES                                                  | SIGN FOR ELECTRICAL EQUIPMENT                                                                  | ROM           | BOUT FIRE DIS                          | I FOR<br>STRICT - ST                     | ATION 2                |
| CTRICAL SYSTEM S                                             | HALL COMPLY WITH THE NEW YORK STATE UNIFORM F                                                  | IRE           | ROUTE 52, FIS                          | HKILL, NY                                |                        |
| FION AND BUILDING C<br>ECTURAL, MECHANIC                     | CODE SECTION 1613 AND APPLICABLE PROVISIONS OF ASC<br>CAL AND ELECTRICAL COMPONENT SEISMIC DES | SIGN          |                                        | IRICAL:                                  |                        |
| MENTS).<br>CAL CONTRACTOR<br>AND PREPARE SUC                 | SHALL HIRE NYS LICENSED PROFESSIONAL ENGINEER                                                  |               | ROPOSED FIF                            | RST FLOOR                                | PLAN                   |
| NT SUPPORT, COND<br>RESTRAINT. SUBMI                         | UIT SUPPORT, MULTIPLE CONDUIT SUPPORT, TRAPEZE                                                 | AND<br>FOR    |                                        | DRAWN BY PROJE                           | CT NUMBER              |
| AND TO LOCAL AUT                                             | HORITY HAVING JURISDICTION FOR APPROVAL.                                                       |               |                                        | RL/KC<br>CHECKED BY DATE                 | 18142                  |
| <u>KEQUIREMENTS:</u><br>USE CATEGORY - IN<br>DESIGN CATEGORY | √<br>- C                                                                                       |               |                                        |                                          | -30-22                 |
|                                                              |                                                                                                |               |                                        | DIA WING NUMBER                          |                        |
|                                                              |                                                                                                |               |                                        | FI                                       | $\mathbf{)}\mathbf{(}$ |
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|                                                              |                                                                                                | FILE          |                                        | Н                                        | :\2021\GA21063         |
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- 80kW 208/I20∨ GENERATOR

– PANELBOARD 'B' - PANELBOARD 'A' - 400A MDP - TIME CLOCK (TCI) TO SERVE EXTERIOR & SITE FIXTURES. REFER TO MEP DRAWINGS

- AIR COMPRESSOR SUPPLIED BY OWNER. VERIFY POWER CONNECTION REQUIREMENTS

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|                                                                                                                                                                                                                                                                                                                                                                                                   | <b>CONSULTING ENGINEERS, D.P.C.</b><br>223 MAIN STREET, GOSHEN NY 10924<br>TEL: (845) 291 1272<br>info@GerardAssociates.com www.GerardAssociates.com<br>GA21063                       |
|                                                                                                                                                                                                                                                                                                                                                                                                   | Szewczak associates<br>Consulting Engineers<br>200 Fisher Drive Avon, Connecticut<br>phone 860.677.4570 fax 860.676.0814                                                              |
|                                                                                                                                                                                                                                                                                                                                                                                                   | ARCHITECTURE<br>PLANNING INTERIORS<br>Liscum<br>McCormack<br>MacCormack<br>VanVoorhis LLP<br>181 CHURCH STREET<br>POUGHKEEPSIE, NEW YORK 12601<br>PHONE 845-452-2268 FAX 845-452-3752 |
| SEISMIC DESIGN FOR ELECTRICAL EQUIPMENT<br>TRICAL SYSTEM SHALL COMPLY WITH THE NEW YORK STATE UNIFORM FIRE<br>ON AND BUILDING CODE SECTION 1613 AND APPLICABLE PROVISIONS OF ASCE 1<br>CTURAL, MECHANICAL AND ELECTRICAL COMPONENT SEISMIC DESIGN<br>1ENTS).<br>AL CONTRACTOR SHALL HIRE NYS LICENSED PROFESSIONAL ENGINEER TO<br>AND PREPARE SHOP DRAWINGS WITH CALCULATIONS FOR EACH ELECTRICAL | PROJECT<br>NEW FIRE STATION FOR<br>ROMBOUT FIRE DISTRICT - STATION 2<br>NYS ROUTE 52, FISHKILL, NY<br>DRAWING<br>ELECTRICAL:<br>PROPOSED MEZZANINE                                    |
| T SUPPORT, CONDUIT SUPPORT, MULTIPLE CONDUIT SUPPORT, TRAPEZE AND<br>RESTRAINT. SUBMIT SHOP DRAWINGS WITH CALCULATIONS TO ENGINEER FOR<br>AND TO LOCAL AUTHORITY HAVING JURISDICTION FOR APPROVAL.<br>REQUIREMENTS:<br>USE CATEGORY - IV<br>DESIGN CATEGORY - C                                                                                                                                   | SEAL DRAWN BY PROJECT NUMBER<br>RL/KC 18142<br>CHECKED BY DATE<br>JT/GH 11-30-22<br>DRAWING NUMBER<br>EIOI                                                                            |
|                                                                                                                                                                                                                                                                                                                                                                                                   | FILE H:\2021\GA21063                                                                                                                                                                  |

| – E<br>1 | EXTE<br>NITH | ND (1<br>NYLC | 2)  "<br>ON D        | EMT<br>RAG               | CONI<br>LINE  | DUITS       |
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| F<br>    | RON<br>BPAC  | 1 PA<br>CE AB | NEL<br>30VE          | 'В' та<br>Е F <i>O</i> I | 2 AT<br>R FUI | TIC<br>TVRE |
| U<br>  E | ISE.<br>EXPC | CAF<br>DSED   | ? ANI<br><i>CO</i> N | ) SEO<br>IDUIT           | CURE          |             |
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ELECTRICAL: FIRST FLOOR REFLECTED CEILING PLAN

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| MECHANICAL<br>ROOM<br>III5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                                                                                                                                                                          | F     |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | No.         REVISION/SUBMISSION         DATE           Mechanical/Electrical/Plumbing Engineer         Engineer         Date                                                                                             |       |
| Q A<br>dd<br>DELIVERY/PICK-UP                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | <b>GERARD</b><br><b>ASSOCIATES</b><br><b>CONSULTING ENGINEERS, D.P.C.</b><br>23 MAIN STREET, GOSHEN NY 10924<br>TEL: (845) 291 1272<br>info@GerardAssociates.com www.GerardAssociates.com<br>GA21063                     | E     |
| HALL BE CIRCUITED<br>E CLOCK TCI-4.<br>TAIL ON MEP-IOI                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | SZEWCZAK ASSOCIATES<br>CONSULTING ENGINEERS<br>200 Fisher Drive Avon, Connecticut<br>phone 860.677.4570 fax 860.676.0814                                                                                                 | D     |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Liscum<br>McCormack<br>VanVoorhis ur                                                                                                                                                                                     | С     |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | ARCHITECTURE<br>PLANNING INTERIORS PHONE 845-452-2268 FAX 845-452-3752<br>PROJECT                                                                                                                                        |       |
| SEISMIC DESIGN FOR ELECTRICAL EQUIPMENT           THE ELECTRICAL SYSTEM SHALL COMPLY WITH THE NEW YORK STATE UNIFORM FIRE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | NEW FIRE STATION FOR<br>ROMBOUT FIRE DISTRICT - STATION 2<br>NYS ROUTE 52, FISHKILL, NY                                                                                                                                  | в     |
| PROTECTION AND BUILDING CODE SECTION 1613 AND APPLICABLE PROVISIONS OF ASCE 1<br>(ARCHITECTURAL, MECHANICAL AND ELECTRICAL COMPONENT SEISMIC DESIGN<br>REQUIREMENTS).<br>ELECTRICAL CONTRACTOR SHALL HIRE NYS LICENSED PROFESSIONAL ENGINEER TO<br>DESIGN AND PREPARE SHOP DRAWINGS WITH CALCULATIONS FOR EACH ELECTRICAL<br>EQUIPMENT SUPPORT, CONDUIT SUPPORT, MULTIPLE CONDUIT SUPPORT, TRAPEZE AND<br>SEISMIC RESTRAINT. SUBMIT SHOP DRAWINGS WITH CALCULATIONS TO ENGINEER FOR<br>RECORD AND TO LOCAL AUTHORITY HAVING JURISDICTION FOR APPROVAL.<br>SEISMIC REQUIREMENTS:<br>BUILDING USE CATEGORY - IV | DRAWING         ELECTRICAL:         FIRST FLOOR         REFLECTED CEILING PLAN         SEAL         DRAWN BY         PROJECT NUMBER         RL/KC       18142         CHECKED BY       DATE         JT/GH       11-30-22 |       |
| SIESMIU DESIGIN CATEGORT - C                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | E200                                                                                                                                                                                                                     | A     |
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ELECTRICAL ROOM



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SEISMIC DESIGN FOR ELECTRICAL EQUIPMENT

THE ELECTRICAL SYSTEM SHALL COMPLY WITH THE NEW YORK STATE UNIFORM FIRE PROTECTION AND BUILDING CODE SECTION 1613 AND APPLICABLE PROVISIONS OF ASCE 7 (ARCHITECTURAL, MECHANICAL AND ELECTRICAL COMPONENT SEISMIC DESIGN

ELECTRICAL CONTRACTOR SHALL HIRE NYS LICENSED PROFESSIONAL ENGINEER TO DESIGN AND PREPARE SHOP DRAWINGS WITH CALCULATIONS FOR EACH ELECTRICAL EQUIPMENT SUPPORT, CONDUIT SUPPORT, MULTIPLE CONDUIT SUPPORT, TRAPEZE AND SEISMIC RESTRAINT. SUBMIT SHOP DRAWINGS WITH CALCULATIONS TO ENGINEER FOR RECORD AND TO LOCAL AUTHORITY HAVING JURISDICTION FOR APPROVAL.

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<u>SEISMIC REQUIREMENTS:</u> BUILDING USE CATEGORY - IV SIESMIC DESIGN CATEGORY - C

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| UTILITY 111<br>SENSOR<br>ZONE 'x' & 'z'                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| SENSOR SHALL BE<br>PROGRAMMED TO<br>CONTROL ZONE<br>LIGHTING AND EF-6                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| н                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| G<br>VERIFY MOUNTING HEIGHT WITH<br>PLUMBING CONTRACTOR AND<br>ARCHITECT. MOUNT ABOVE ADA<br>HANDRAILS WHERE REQUIRED.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| DETAIL NOTES:       F         1. ELECTRICAL CONTRACTOR SHALL COORDINATE<br>MOUNTING LOCATIONS AND EQUIPMENT CONNECTIONS<br>WITH THE PLUMBING CONTRACTOR PRIOR TO<br>INSTALLATION.       F         2. ELECTRICAL CONTRACTOR SHALL VERIFY SENSOR IS       No.       REVISION/SUBMISSION                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| MOT BLOCKED BY ADA HANDRAILS, WHERE REQUIRED.<br>COORDINATE WITH ARCHITECT PRIOR TO INSTALLATION.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| Structural Engineer<br>STRUCZAK ASSOCIATES<br>CONSULTING ENGINEERS<br>200 Fisher Drive Avon, Connecticut<br>phone 860.677.4570 fax 860.676.0814                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| ED<br>BACK<br>DUE<br>ULE<br>STEINEL IS-345-24<br>STEINEL IS-345 |
| NEW FIRE STATION FOR<br>ROMBOUT FIRE DISTRICT - STATION 2<br>NYS ROUTE 52, FISHKILL, NY<br>DRAWING<br>ELECTRICAL:<br>DETAILS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| SEAL DRAWN BY PROJECT NUMBER<br>RL/KC 18142<br>CHECKED BY JT/GH 11-30-22<br>DRAWING NUMBER<br>E500 A                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |





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### NOTES:

- ELECTRICAL CONTRACTOR SHALL COORDINATE WITH OWNER'S SECURITY CONSULTANT PRIOR TO PURCHASE OF ANY WIRING OR INSTALLATION OF SECURITY INFRASTRUCTURE.
   ALL DEVICE LOCATIONS SHALL BE APPROVED BY OWNER'S SECURITY VENDOR.
- 3. ALL CONDUITS SHOWN SHALL BE INSTALLED WITH NYLON DRAG LINE.

# ACCESS CONTROL DOOR DETAIL

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FIRE ALARM NOTES

- I. FIRE ALARM SYSTEM WIRING, NUMBER AND SIZE OF CONDUCTORS SHALL BE PER MANUFACTURER'S RECOMMENDATIONS BUT NOT LESS THAN 18 AWG. COPPER CONDUCTOR. UL LISTED PLENUM RATED SIGNALING CABLE MAY BE USED IN CONCEALED SPACES.
- 2. FIRE ALARM SYSTEM SHALL BE FULLY ADDRESSABLE, WITH DISCREET ADDRESSES FOR EACH ACTIVATING DEVICE. MAIN PANEL SHALL IDENTIFY DEVICE BY ROOM NAMES AND LOCATIONS TO BE PROVIDED BY THE BUILDING OPERATOR.
- 3. ELECTRICAL CONTRACTOR SHALL FURNISH AND INSTALL A COMPLETE AND OPERABLE FIRE ALARM AND SMOKE DETECTION SYSTEM IN ACCORDANCE WITH NFPA 72, BUILDING CODE OF NEW YORK STATE AND ALL LOCAL CODES, INCLUDING ALL CIRCUITRY, SMOKE DETECTORS, HEAT DETECTORS, ZONE MODULES, ANNUNCIATION DEVICES, FIRE ALARM PANEL, POWER MODULES, BATTERY BACKUP, MUNICIPAL TIE AND CONNECTION AND OTHER MISCELLANEOUS ITEMS NOT NECESSARILY DETAILED ON THIS DRAWING TO RENDER FIRE ALARM SYSTEM COMPLETE AND OPERATIVE.
- 4. ELECTRICAL CONTRACTOR SHALL HIRE MANUFACTURER'S REPRESENTATIVE TO FULLY DEMONSTRATE SYSTEM FUNCTION, OPERATION AND MAINTENANCE OF FIRE ALARM SYSTEM TO OWNER.

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|            | FIRE ALARM EQUIPMENT SCHEDULE |                                                                                                                                                                         |  |  |  |  |  |
|------------|-------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|--|--|--|--|
| NUFACTURER | CATALOG #                     | DESCRIPTION                                                                                                                                                             |  |  |  |  |  |
|            |                               | SURFACE MOUNTED REMOTE FIRE ALARM ANNUNCIATOR WITH LCD COLOR<br>TOUCHSCREEN DISPLAY.                                                                                    |  |  |  |  |  |
|            |                               | CEILING MOUNTED FIRE ALARM STROBE LIGHT, COLOR: RED, MARKING: 'FIRE',<br>FIELD SELECTABLE OUTPUT OF 15, 30, 75 & 110 CANDELAS.                                          |  |  |  |  |  |
|            |                               | WALL MOUNTED FIRE ALARM STROBE LIGHT, COLOR: RED, MARKING: 'FIRE', FIELD<br>SELECTABLE OUTPUT OF 15, 30, 77, & 110 CANDELAS.                                            |  |  |  |  |  |
|            |                               | CEILING MOUNTED FIRE ALARM HORN/STROBE LIGHT, COLOR: RED, MARKING:<br>'FIRE', FIELD SELECTABLE OUTPUT OF 15, 30, 77, & 110 CANDELAS.                                    |  |  |  |  |  |
|            |                               | WALL MOUNTED FIRE ALARM HORN/STROBE LIGHT, COLOR: RED, MARKING: 'FIRE',<br>FIELD SELECTABLE OUTPUT OF 15, 30, 77, & 110 CANDELAS.                                       |  |  |  |  |  |
|            |                               | ADDRESSABLE CARBON MONOXIDE DETECTOR WITH SOUNDER BASE. UPON<br>ACTIVATION, DETECTOR SHALL INDICATE A SYSTEM SUPERVISORY SIGNAL AND<br>ACTIVATE THE SOUNDER BASE ALARM. |  |  |  |  |  |
|            |                               | DOUBLE ACTION ADDRESSABLE MANUAL PULL STATION                                                                                                                           |  |  |  |  |  |
|            |                               | ADDRESSABLE PHOTOELECTRIC SMOKE DETECTOR                                                                                                                                |  |  |  |  |  |
|            |                               | SPRINKLER FLOW SWITCH - COORDINATE QUANTITIES WITH SPRINKLER<br>CONTRACTOR                                                                                              |  |  |  |  |  |
|            |                               | SPRINKLER TAMPER SWITCH - COORDINATE QUANTITIES WITH SPRINKLER<br>CONTRACTOR                                                                                            |  |  |  |  |  |

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| 120/20<br>MAIN                        | 08 VOLT, 39,<br>LUGS ONLY FE | 4 WIRE, 400 AN<br>ED FROM 400A | 1PERE RATED<br>MCB IN ATS. | BRANCH:<br>ENCLOSUR               | THERMA<br>CIRCUIT I<br>E: NEMA   | L MAGNETIC<br>BREAKERS.<br>I, SURFACE | EATON EDB | ГҮРЕ<br>32 <i>060</i> |
|---------------------------------------|------------------------------|--------------------------------|----------------------------|-----------------------------------|----------------------------------|---------------------------------------|-----------|-----------------------|
| C.B.                                  | LOAD                         |                                | CONDUCTORS                 |                                   | ORS                              | LOAD                                  |           | C.                    |
|                                       |                              |                                | MAIN LI<br>40              | JGS ONLY<br>DOA                   |                                  |                                       |           |                       |
|                                       |                              |                                | NE                         | JTRAL                             |                                  |                                       |           |                       |
|                                       |                              |                                | 80 <u>1</u>                | 2 20                              |                                  | 2 THWN                                |           | ARG                   |
| SPARE - FOR<br>FUTURE SOLAR<br>SYSTEM |                              |                                | 80 3                       | 4 20                              |                                  |                                       | GENERATOR |                       |
|                                       |                              |                                | 80 5                       | 6 20                              | >                                |                                       |           |                       |
| 7                                     |                              | PANEL B                        |                            | 50A                               | (4) #3/                          | O AL THHN                             |           | 8                     |
| 9                                     |                              | ELECTRICAL                     | ROOM                       |                                   | #6 CU<br>2" EM1                  | GROUND                                |           | 1                     |
| 11                                    |                              |                                |                            |                                   |                                  |                                       |           | 1                     |
| 13                                    |                              | PANEL C                        | Į                          | (4) #3/0 AL THHN<br>#6 (11 GROUND |                                  |                                       | 1         |                       |
| 15                                    |                              |                                |                            | 2" EM1                            | 2" EMT                           |                                       |           |                       |
| 17                                    |                              |                                |                            |                                   |                                  |                                       |           | 1                     |
| 19                                    |                              | PANEL D<br>HALLWAY             | 15                         | ÓA                                | (4) #3/0 AL THHN<br>#6 CU GROUND |                                       |           | 2                     |
| 21                                    |                              |                                |                            |                                   | 2" EM                            | T                                     |           | 2                     |
| 23                                    |                              |                                |                            |                                   |                                  |                                       |           | 2                     |
| 25                                    |                              |                                | (4) #I AL THHN             |                                   | {                                | SPACE ONLY                            |           | 2                     |
| 27                                    | ELECTRICAL                   | CLOSET                         | #8 CU GROUND<br> 仏" EMT    |                                   | {                                | 5PACE ONLY                            |           | 2                     |
|                                       |                              |                                |                            |                                   |                                  |                                       |           |                       |

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| KEY | ED NOTES                                                  | (APPLIES TO THIS SHEET ONLY)                                                 |
|-----|-----------------------------------------------------------|------------------------------------------------------------------------------|
|     | PUMPS NOT SHOWN ON PLANS. I<br>BOILER SYSTEM SCHEMATIC DE | ELECTRICAL CONTRACTOR SHALL REFER TO<br>TAIL ON MECHANICAL DRAWING M506, AND |

- $\langle 1 \rangle$ MECHANICAL EQUIPMENT SCHEDULE ON DRAWING M602 FOR MORE INFORMATION. THIS CONTRACTOR SHALL PROVIDE A LISTED NEMA RATED DISCONNECT FOR EACH PUMP WHERE NOT FACTORY SUPPLIED.
- 2 PUMPS NOT SHOWN ON PLANS. ELECTRICAL CONTRACTOR SHALL REFER TO TO PLATE HEAT EXCHANGER DETAIL ON MECHANICAL DRAWING M504, AND MECHANICAL EQUIPMENT SCHEDULE ON DRAWING M602 FOR MORE INFORMATION. THIS CONTRACTOR SHALL PROVIDE A LISTED NEMA RATED DISCONNECT FOR EACH PUMP WHERE NOT FACTORY SUPPLIED.
- (3) CIRCUIT SHALL BE PROTECTED BY GFCI TYPE CIRCUIT BREAKER IN ACCORDANCE WITH 2017 NEC 210.8

| PANEL "D" (PD)<br>120/208 VOLT, 34,<br>LUGS FEED FROM IS<br>MAIN DISTRIBUTION | 4 WIRE, 225 AMPERI<br>50 AMPERE CIRCUIT<br>PANEL. | E RAT<br>BREA | ED MAIN BRA<br>KER IN<br>ENCL                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | NCH: T<br>C<br>.OSURE | THERMAL MAGNETIC<br>IRCUIT BREAKERS.<br>E: NEMA I, FLUSH MO | EATON BAB TYI<br>UNTED, EZB2042 |
|-------------------------------------------------------------------------------|---------------------------------------------------|---------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------|-------------------------------------------------------------|---------------------------------|
| LOAD                                                                          | CONDUCTORS                                        | C.B.          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | C.B.                  | CONDUCTORS                                                  | LOAD                            |
| CC-I                                                                          | (2) #8 THHN<br>#IO GROUND<br>TYPE MC CABLE        | 35            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 2 35                  | (2) #8 THHN<br>#IO GROUND<br>TYPE MC CABLE                  | CC-2                            |
| ((-3                                                                          | / ¾" LFMC<br>(2) #12 THHN                         | 20            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                       | 7 3/4" LFMC                                                 |                                 |
|                                                                               | HI2 GROUND<br>TYPE MC CABLE<br>/ ¾" LFMC          | 20            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | <u> </u>              | +12 GROUND<br>TYPE MC CABLE                                 |                                 |
| AHU-2                                                                         | (2) #12 THHN                                      | 15            | <u>9</u> 7                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 0 15                  | (2) #12 THHN                                                | AHU-3                           |
|                                                                               | #12 GROUND<br>TYPE MC CABLE                       | 15            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 2 15                  | - #12 GROUND<br>TYPE MC CABLE                               |                                 |
| SPARE                                                                         |                                                   | 20            | <u>13</u> 7 – <u>1</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 4 20                  | (2) #12 THHN<br>#12 GROUND                                  | HP-I                            |
| SPARE                                                                         |                                                   | 20            | 15                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | <u>6</u> 20           | TYPE MC CABLE<br>/ ¾" LFMC                                  |                                 |
| FCU-I                                                                         | (2) #12 THHN                                      | 15            | <u>17</u><br><u>17</u><br><u>17</u><br><u>17</u><br><u>17</u><br><u>17</u><br><u>17</u><br><u>17</u><br><u>17</u><br><u>17</u><br><u>17</u><br><u>17</u><br><u>17</u><br><u>17</u><br><u>17</u><br><u>17</u><br><u>17</u><br><u>17</u><br><u>17</u><br><u>17</u><br><u>17</u><br><u>17</u><br><u>17</u><br><u>17</u><br><u>17</u><br><u>17</u><br><u>17</u><br><u>17</u><br><u>17</u><br><u>17</u><br><u>17</u><br><u>17</u><br><u>17</u><br><u>17</u><br><u>17</u><br><u>17</u><br><u>17</u><br><u>17</u><br><u>17</u><br><u>17</u><br><u>17</u><br><u>17</u><br><u>17</u><br><u>17</u><br><u>17</u><br><u>17</u><br><u>17</u><br><u>17</u><br><u>17</u><br><u>17</u><br><u>17</u><br><u>17</u><br><u>17</u><br><u>17</u><br><u>17</u><br><u>17</u><br><u>17</u><br><u>17</u><br><u>17</u><br><u>17</u><br><u>17</u><br><u>17</u><br><u>17</u><br><u>17</u><br><u>17</u><br><u>17</u><br><u>17</u><br><u>17</u><br><u>17</u><br><u>17</u><br><u>17</u><br><u>17</u><br><u>17</u><br><u>17</u><br><u>17</u><br><u>17</u><br><u>17</u><br><u>17</u><br><u>17</u><br><u>17</u><br><u>17</u><br><u>17</u><br><u>17</u><br><u>17</u><br><u>17</u><br><u>17</u><br><u>17</u><br><u>17</u><br><u>17</u><br><u>17</u><br><u>17</u><br><u>17</u><br><u>17</u><br><u>17</u><br><u>17</u><br><u>17</u><br><u>17</u><br><u>17</u><br><u>17</u><br><u>17</u><br><u>17</u><br><u>17</u><br><u>17</u><br><u>17</u><br><u>17</u><br><u>17</u><br><u>17</u><br><u>17</u><br><u>17</u><br><u>17</u><br><u>17</u><br><u>17</u><br><u>17</u><br><u>17</u><br><u>17</u><br><u>17</u><br><u>17</u><br><u>17</u><br><u>17</u><br><u>17</u><br><u>17</u><br><u>17</u><br><u>17</u><br><u>17</u><br><u>17</u><br><u>17</u><br><u>17</u><br><u>17</u><br><u>17</u><br><u>17</u><br><u>17</u><br><u>17</u><br><u>17</u><br><u>17</u><br><u>17</u><br><u>17</u><br><u>17</u><br><u>17</u><br><u>17</u><br><u>17</u><br><u>17</u><br><u>17</u><br><u>17</u><br><u>17</u><br><u>17</u><br><u>17</u><br><u>17</u><br><u>17</u><br><u>17</u><br><u>17</u><br><u>17</u><br><u>17</u><br><u>17</u><br><u>17</u><br><u>17</u><br><u>17</u><br><u>17</u><br><u>17</u><br><u>17</u><br><u>17</u><br><u>17</u><br><u>17</u><br><u>17</u><br><u>17</u><br><u>17</u><br><u>17</u><br><u>17</u><br><u>17</u><br><u>17</u><br><u>17</u><br><u>17</u><br><u>17</u><br><u>17</u><br><u>17</u><br><u>17</u><br><u>17</u><br><u>17</u><br><u>17</u><br><u>17</u><br><u>17</u><br><u>17</u><br><u>17</u><br><u>17</u><br><u>17</u><br><u>17</u><br><u>17</u><br><u>17</u><br><u>17</u><br><u>17</u><br><u>17</u><br><u>17</u><br><u>17</u><br><u>17</u><br><u>17</u><br><u>17</u><br><u>17</u><br><u>17</u><br><u>17</u><br><u>17</u><br><u>17</u><br><u>17</u><br><u>17</u><br><u>17</u><br><u>17</u><br><u>17</u><br><u>17</u><br><u>17</u><br><u>17</u><br><u>17</u><br><u>17</u><br><u>17</u><br><u>17</u><br><u>17</u><br><u>17</u><br><u>17</u><br><u>17</u><br><u>17</u><br><u>17</u><br><u>17</u><br><u>17</u><br><u>17</u><br><u>17</u><br><u>17</u><br><u>17</u><br><u>17</u><br><u>17</u><br><u>17</u><br><u>17</u><br><u>17</u><br><u>17</u><br><u>17</u><br><u>17</u><br><u>17</u><br><u>17</u><br><u>17</u><br><u>17</u><br><u>17</u><br><u>17</u><br><u>17</u><br><u>17</u><br><u>17</u><br><u>17</u><br><u>17</u><br><u>17</u><br><u>17</u><br><u>17</u><br><u>17</u><br><u>17</u><br><u>17</u><br><u>17</u><br><u>17</u><br><u>17</u><br><u>17</u><br><u>17</u><br><u>17</u><br><u>17</u><br><u>17</u><br><u>17</u><br><u>17</u><br><u>17</u><br><u>17</u><br><u>17</u><br><u>17</u><br><u>17</u><br><u>17</u><br><u>17</u><br><u>17</u><br><u>17</u><br><u>17</u><br><u>17</u><br><u>17</u><br><u>17</u><br><u>17</u><br><u>17</u><br><u>17</u><br><u>17</u><br><u>17</u><br><u>17</u><br><u>17</u><br><u>17</u><br><u>17</u><br><u>17</u><br><u>17</u><br><u>17</u><br><u>17</u><br><u>17</u><br><u>17</u><br><u>17</u><br><u>17</u><br><u>17</u><br><u>17</u><br><u>17</u><br><u>17</u><br><u>17</u><br><u>17</u><br><u>17</u><br><u>17</u><br><u>17</u><br><u>17</u><br><u>17</u><br><u>17</u><br><u>17</u><br><u>17</u><br><u>17</u><br><u>17</u><br><u>17</u><br><u>17</u><br><u>17</u><br><u>17</u><br><u>17</u><br><u>17</u><br><u>17</u><br><u>17</u><br><u>17</u><br><u>17</u><br><u>17</u><br><u>17</u><br><u>17</u><br><u>17</u><br><u>17</u><br><u>17</u><br><u>17</u><br><u>17</u><br><u>17</u><br><u>17</u><br><u>17</u><br><u>17</u><br><u>17</u><br><u>17</u><br><u>17</u><br><u>17</u><br><u>17</u><br><u>17</u><br><u>17</u><br><u>17</u><br><u>17</u><br><u>17</u><br><u>17</u><br><u>17</u><br><u>17</u><br><u>17</u> | 8 15                  | (2) #12 THHN                                                | FCU-2                           |
|                                                                               | TYPE MC CABLE                                     | 15            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 0 15                  | TYPE MC CABLE                                               |                                 |
|                                                                               |                                                   | 20            | $21$ $^2$                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 2 30                  |                                                             |                                 |
| GEAR WASHER                                                                   | #12/3 TYPE MC<br>CABLE WITH GND                   | 20            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 4 30                  | #10/3 TYPE MC<br>CABLE WITH GND                             | GEAR DRYER                      |
|                                                                               |                                                   | 20            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | <u>6</u> 30           |                                                             |                                 |
| LIGHTING CIRCUIT -<br>MEZZANINE                                               | #12/2 TYPE MC<br>CABLE WITH GND                   | 20            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | <u>8</u> 20           | #12/2 TYPE MC<br>CABLE WITH GND                             | MEZZ. STORAG<br>RECEPTACLES     |
| MEZZANINE<br>RECEPTACLES                                                      | #12/2 TYPE MC<br>CABLE WITH GND                   | 20            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 0 20                  | #12/2 TYPE MC<br>CABLE WITH GND                             | MEZZ. SERVER<br>RECEPTACLES     |
| MEZZANINE MECH<br>RM                                                          | #12/2 TYPE MC<br>CABLE WITH GND                   | 20            | 31                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 2 20                  | #12/2 TYPE MC<br>CABLE WITH GND                             | MEZZ. SERVER<br>RECEPTACLES     |
| MAINTENANCE<br>RECEPTACLE                                                     | #12/2 TYPE MC<br>CABLE WITH GND                   | 20            | 33                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 4 —                   |                                                             | SPACE ONLY                      |
| SPACE ONLY                                                                    |                                                   |               | 35                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | <u>6</u>              |                                                             | SPACE ONLY                      |
| SPACE ONLY                                                                    |                                                   |               | 37                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 8 —                   |                                                             | SPACE ONLY                      |
| SPACE ONLY                                                                    |                                                   |               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | <u>o</u> —            |                                                             | SPACE ONLY                      |
| SPACE ONLY                                                                    |                                                   |               | 410 04                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 2                     |                                                             | SPACE ONLY                      |

| PANEL "A" (PA)<br>120/208 VOLT, 34, 4 WIRE, 225 AMPERE RATED MAIN BRANCH: THERMAL MAGNETIC EATON BAB TYPE |                                               |      |           |   |           |            |                                               |                                |  |  |
|-----------------------------------------------------------------------------------------------------------|-----------------------------------------------|------|-----------|---|-----------|------------|-----------------------------------------------|--------------------------------|--|--|
| LUGS FEED FROM IC<br>MAIN DISTRIBUTION                                                                    | O AMPERE CIRCUIT<br>PANEL.                    | BREA | AKER I    | N | ENCLO     | CI         | RCUIT BREAKERS.<br>NEMA I, SURFACE            | MOUNTED, EZB2042R              |  |  |
| LOAD                                                                                                      | CONDUCTORS                                    | C.B. |           |   | C.B.      | CONDUCTORS | LOAD                                          |                                |  |  |
| LIGHTING CIRCUIT                                                                                          | #12/2 TYPE MC<br>CABLE WITH GND               | 20   | 1~-       |   | <u>2</u>  | 20         | #12/2 TYPE MC<br>CABLE WITH GND               | LIGHTING CIRCUIT               |  |  |
| LIGHTING CIRCUIT                                                                                          | #12/2 TYPE MC<br>CABLE WITH GND               | 20   | 3         | - | 4         | 20         | #12/2 TYPE MC<br>CABLE WITH GND               | LIGHTING CIRCUIT               |  |  |
| LIGHTING CIRCUIT                                                                                          | #12/2 TYPE MC<br>CABLE WITH GND               | 20   | 5         |   | <u> </u>  | 20         | #12/2 TYPE MC<br>CABLE WITH GND               | LIGHTING CIRCUIT<br>TIME CLOCK |  |  |
| LIGHTING CIRCUIT<br>TIME CLOCK                                                                            | #12/2 TYPE MC<br>CABLE WITH GND               | 20   | 7~-       | _ | <u>8</u>  | 20         | #12/2 TYPE MC<br>CABLE WITH GND               | LIGHTING CIRCUIT<br>TIME CLOCK |  |  |
| LIGHTING CIRCUIT<br>TIME CLOCK                                                                            | #12/2 TYPE MC<br>CABLE WITH GND               | 20   | 9         | - | <u>10</u> | 20         | #12/2 TYPE MC<br>CABLE WITH GND               | LIGHTING CIRCUIT<br>TIME CLOCK |  |  |
| CEILING<br>RECEPTACLE                                                                                     |                                               | 20   | 11        |   | <u>12</u> | 20         |                                               | CEILING<br>RECEPTACLE          |  |  |
| CEILING<br>RECEPTACLE                                                                                     | (8) #12 THHN<br>#12 GROUND                    | 20   | <u>13</u> |   | <u>14</u> | 20         | (8) #12 THHN                                  | CEILING<br>RECEPTACLE          |  |  |
| CEILING<br>RECEPTACLE                                                                                     | I" EMT                                        | 20   | <u>15</u> | - | <u>16</u> | 20         | I" EMT                                        | CEILING<br>RECEPTACLE          |  |  |
| CEILING<br>RECEPTACLE                                                                                     |                                               | 20   | 17~_      |   |           | 20         |                                               | CEILING<br>RECEPTACLE          |  |  |
| GARAGE DOOR<br>OPENER                                                                                     | (2) #I2 THHN<br>#I2 GND, <sup>3</sup> ⁄4" EMT | 20   | <u>19</u> |   | <u>20</u> | 20         | (2) #12 THHN<br>#12 GND, <sup>3</sup> ⁄4" EMT | GARAGE DOOR<br>OPENER          |  |  |
| GARAGE DOOR<br>OPENER                                                                                     | (2) #I2 THHN<br>#I2 GND, <b>¾</b> " EMT       | 20   | <u>21</u> | _ | <u>22</u> | 20         | (2) #I2 THHN<br>#I2 GND, <b>¾</b> " EMT       | GARAGE DOOR<br>OPENER          |  |  |
| GARAGE DOOR<br>OPENER                                                                                     | (2) #I2 THHN<br>#I2 GND, ¾" EMT               | 20   | <u>23</u> |   |           | 20         | (2) #I2 THHN<br>#I2 GND, ¾" EMT               | GARAGE DOOR<br>OPENER          |  |  |
| GARAGE DOOR<br>OPENER                                                                                     | (2) #I2 THHN<br>#I2 GND, ¾" EMT               | 20   | <u>25</u> |   | <u>26</u> | 20         | (2) #I2 THHN<br>#I2 GND, ¾" EMT               | GARAGE DOOR<br>OPENER          |  |  |
| APPARATUS / EXT<br>RECEPTACLE                                                                             | #12/2 TYPE MC<br>CABLE WITH GND               | 20   | 27        | - | <u>28</u> | 20         | #12/2 TYPE MC<br>CABLE WITH GND               | APPARATUS / EXT<br>RECEPTACLE  |  |  |
| APPARATUS / EXT<br>RECEPTACLE                                                                             | #12/2 TYPE MC<br>CABLE WITH GND               | 20   | <u>29</u> |   | <u>30</u> | 20         | #12/2 TYPE MC<br>CABLE WITH GND               | APPARATUS / EXT<br>RECEPTACLE  |  |  |
| APPARATUS / EXT<br>RECEPTACLE                                                                             | #12/2 TYPE MC<br>CABLE WITH GND               | 20   | <u>31</u> |   | <u>32</u> | 20         | #12/2 TYPE MC<br>CABLE WITH GND               | APPARATUS / EXT<br>RECEPTACLE  |  |  |
| APPARATUS BAY<br>RECEPTACLE                                                                               | #12/2 TYPE MC<br>CABLE WITH GND               | 20   | <u>33</u> | _ | <u></u>   | 20         | #12/2 TYPE MC<br>CABLE WITH GND               | APPARATUS BAY<br>RECEPTACLE    |  |  |
| SPARE                                                                                                     |                                               | 20   | <u>35</u> |   | <u></u>   | 20         |                                               | SPARE                          |  |  |
| SPARE                                                                                                     |                                               | 20   | <u>37</u> |   | <u></u>   | 20         |                                               | SPARE                          |  |  |
| SPARE                                                                                                     |                                               | 20   | <u>39</u> | _ | <u>40</u> | 20         |                                               | SPARE                          |  |  |
| SPARE                                                                                                     |                                               | 20   | 41~       |   | <u>42</u> | 20         | (2) #10 THWN<br>#10 GND, 1" PVC               | FOR FUTURE USE<br>AT 'F2' POLE |  |  |

SERVICE ENTRANCE RATED AUTOMATIC TRANSFER SWITCH

120/208 VOLTS, 3 PHASE, 4 WIRE, 3 POLE WITH SOLID NEUTRAL, AND

100 AMPERE THERMAL MAGNETIC MOLDED CASE CIRCUIT BREAKER. 16-CIRCUIT LOAD CENTER

UTILITY TRANSFORMER

22,000 A.I.C.

ENCLOSURE: NEMA 3 -



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| RNATE #3         | PANEL "B" (PB)<br>120/208 VOLT, 3¢,<br>LUGS FEED FROM I<br>MAIN DISTRIBUTION | 4 WIRE, 225 AMPER<br>50 AMPERE CIRCUIT<br>PANEL.                                                                                           | E RA <sup>:</sup><br>BRE; | TED MAIN<br>AKER IN                               | I BRANC                                      | CH: T<br>C<br>SURE             | HERMAL MAGNETIC<br>RCUIT BREAKERS.<br>: NEMA I, SURFACE           | EATON BAB TYPE<br>MOUNTED, EZB2042R |                                                                                                                      | PANEL "C" (PC)<br>120/208 VOLT, 30, 4<br>LUGS FEED FROM IS<br>MAIN DISTRIBUTION                                                                                                                                                                            | 4 WIRE, 225 AMPERI<br>50 AMPERE CIRCUIT<br>PANEL.                                                   | E RA<br>BRE | TED M<br>AKER | AIN E<br>IN E | BRANC        | CH: T<br>CI<br>SURE: | HERMAL MAGNETIC<br>RCUIT BREAKERS.<br>NEMA I, FLUSH MO | EAT <i>O</i> N BAB TYPE<br>JNTED, EZB2042R |
|------------------|------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------|---------------------------|---------------------------------------------------|----------------------------------------------|--------------------------------|-------------------------------------------------------------------|-------------------------------------|----------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------|-------------|---------------|---------------|--------------|----------------------|--------------------------------------------------------|--------------------------------------------|
| ALTE             | LOAD                                                                         | CONDUCTORS                                                                                                                                 | C.B.                      |                                                   |                                              | С.В.                           | CONDUCTORS                                                        | LOAD                                |                                                                                                                      | LOAD                                                                                                                                                                                                                                                       | CONDUCTORS                                                                                          | С.В.        |               |               |              | С.В.                 | CONDUCTORS                                             | LOAD                                       |
| Ч                | STORAGE<br>RECEPTACLES                                                       | (2) #I2 THHN<br>#I2 GND, <sup>3</sup> 4" EMT                                                                                               | 20                        |                                                   |                                              | 20                             | (2) #12 THHN<br>#12 GND, ¾" EMT                                   | ELECTRICAL ROOM<br>RECEPTACLES      |                                                                                                                      | LIGHTING CIRCUIT                                                                                                                                                                                                                                           | #12/2 TYPE MC<br>CABLE WITH GND                                                                     | 20          | 1             | <b>+</b>      | <u>2</u>     | 20                   | #12/2 TYPE MC<br>CABLE WITH GND                        | LIGHTING CIRCUIT                           |
|                  | SPRINKLER ROOM<br>RECEPTACLES                                                | (2) #I2 THHN<br>#I2 GND, <b>¾</b> " EMT                                                                                                    | 20                        | 3                                                 | 4                                            | 20                             | (2) #12 THHN<br>#12 GND, ¾" EMT                                   | BOILER B-I                          |                                                                                                                      | LIGHTING CIRCUIT                                                                                                                                                                                                                                           | #12/2 TYPE MC<br>CABLE WITH GND                                                                     | 20          | 3             | ++            | _ <u>_4</u>  | 20                   | #12/2 TYPE MC<br>CABLE WITH GND                        | LIGHTING CIRCUIT                           |
| Ţ                | UNIT HEATERS UH-I                                                            | (2) #12 THHN<br>#12 GND, ∛4" EMT                                                                                                           | 20                        | <u>5</u>                                          | <u> </u>                                     | 20                             | (2) #12 THHN<br>#12 GND, ¾" EMT                                   | BOILER B-2                          |                                                                                                                      | LIGHTING CIRCUIT<br>TIME CLOCK                                                                                                                                                                                                                             | #12/2 TYPE MC<br>CABLE WITH GND                                                                     | 20          | 5_            |               | _ <u>_6</u>  | 20                   | #12/2 TYPE MC<br>CABLE WITH GND                        | LIGHTING CIRCUIT<br>TIME CLOCK             |
| l<br>L           | UNIT HEATERS UH-I                                                            | (2) #I2 THHN<br>                                                                                                                           | 20                        |                                                   | <u> </u>                                     | 20                             | (2) #I2 THHN<br>#I2 GND, ¾" EMT                                   | CABINET HEATER<br>CH-I              |                                                                                                                      | HALL/TOILETS<br>RECEPTACLES                                                                                                                                                                                                                                | #12/2 TYPE MC<br>CABLE WITH GND                                                                     | 20          | 7~-           | +             | _ <u>^8</u>  | 20                   | #12/2 TYPE MC<br>CABLE WITH GND                        | SINK & FLUSH<br>VALVES                     |
| $\left(1\right)$ | PUMPS P-3,6,∉7                                                               | (2) #I2 THHN<br>#I2 GND, ¾" EMT                                                                                                            | 20                        | 9                                                 | <u></u>                                      | 20                             | (2) #12 THHN<br>#12 GND, ¾" EMT                                   | HOT WATER<br>HEATER                 |                                                                                                                      | MEETING ROOM<br>RECEPTACLES                                                                                                                                                                                                                                | #12/2 TYPE MC<br>CABLE WITH GND                                                                     | 20          | 9             |               | _ <u>_10</u> | 20                   | #12/2 TYPE MC<br>CABLE WITH GND                        | MEETING ROOM<br>RECEPTACLES                |
| (1)              | PUMPS P-4,5,&8<br>(SPARES)                                                   | (2) #I2 THHN<br>#I2 GND, ∛4" EMT                                                                                                           | 20                        |                                                   | <u>12</u>                                    | 20                             | #12/2 TYPE MC<br>CABLE WITH GND                                   | EXHAUST FANS                        |                                                                                                                      | COUNTER / REFRIG<br>RECEPTACLES                                                                                                                                                                                                                            | #12/2 TYPE MC<br>CABLE WITH GND                                                                     | 20          | 11            | ┼┼┝           | _ <u>_12</u> | 20                   | #12/2 TYPE MC<br>CABLE WITH GND                        | KITCHEN COUNTER<br>RECEPTACLES             |
| T                |                                                                              |                                                                                                                                            | 30                        | <u>13</u>                                         | <u>⊢</u>                                     | 30                             |                                                                   |                                     | <b>∏</b>                                                                                                             | KITCHEN COUNTER<br>RECEPTACLES                                                                                                                                                                                                                             | #12/2 TYPE MC<br>CABLE WITH GND                                                                     | 20          | <u>13</u>     | +             | _ <u>_14</u> | 20                   | #12/2 TYPE MC<br>CABLE WITH GND                        | DISHWASHER<br>RECEPTACLE                   |
| Ь                | COMPRESSOR                                                                   | (3) #IO THHN<br>  #IO GND, I" EMT                                                                                                          | 30                        | 15                                                | <u>↓ 16</u>                                  | 30                             | #IO/3 TYPE MC<br>CABLE WITH GND                                   | PLYMOVENT                           | TE #                                                                                                                 | KITCHEN COUNTER<br>RECEPTACLES                                                                                                                                                                                                                             | #12/2 TYPE MC<br>CABLE WITH GND                                                                     | 20          | <u>15</u>     | ┼╋┤           | _ <u>_16</u> | 20                   | #12/2 TYPE MC<br>CABLE WITH GND                        | DAY R <i>OO</i> M<br>RECEPTACLES           |
| E #4             |                                                                              |                                                                                                                                            | 30                        |                                                   |                                              | 30                             |                                                                   |                                     | RNA                                                                                                                  | TV RECEPTACLES                                                                                                                                                                                                                                             | #12/2 TYPE MC<br>CABLE WITH GND                                                                     | 20          | 17~_          |               | _ <u>_18</u> | 20                   | #12/2 TYPE MC<br>CABLE WITH GND                        | OFFICE<br>RECEPTACLES                      |
| RNAT             |                                                                              |                                                                                                                                            | 60                        | <u>19</u>                                         | <u>20</u>                                    |                                |                                                                   | SPACE ONLY                          | ALTE                                                                                                                 | RADIO ROOM<br>RECEPTACLES                                                                                                                                                                                                                                  | #12/2 TYPE MC<br>CABLE WITH GND                                                                     | 20          | <u>19</u>     | •             | _ <u>^20</u> | 20                   | #12/2 TYPE MC<br>CABLE WITH GND                        | RADIO ROOM<br>RECEPTACLES                  |
| LTEF             | SIREN                                                                        | (3) #6 THWN<br>#10 GROUND                                                                                                                  | 60                        | 21                                                | <u>^22</u>                                   |                                |                                                                   | SPACE ONLY                          |                                                                                                                      | GEAR ROOM<br>RECEPTACLES                                                                                                                                                                                                                                   | #12/2 TYPE MC<br>CABLE WITH GND                                                                     | 20          | 21_           |               | _ <u>^22</u> | 20                   | #12/2 TYPE MC<br>CABLE WITH GND                        | GEAR ROOM<br>RECEPTACLES                   |
| ◄                |                                                                              | 1 SCH.40 PVC                                                                                                                               | 60                        | 23                                                | <u>24</u>                                    |                                |                                                                   | SPACE ONLY                          |                                                                                                                      | TOILET, UTILITY,<br>HALL RECEPT                                                                                                                                                                                                                            | #12/2 TYPE MC<br>CABLE WITH GND                                                                     | 20          | 23~_          |               | _ <u>^24</u> | 20                   | #12/2 TYPE MC<br>CABLE WITH GND                        | WASHER<br>RECEPTACLE                       |
|                  |                                                                              |                                                                                                                                            | 20                        | 25                                                |                                              | 20                             |                                                                   |                                     | -•1                                                                                                                  | LAUNDRY ROOM<br>RECEPTACLES                                                                                                                                                                                                                                | #12/2 TYPE MC<br>CABLE WITH GND                                                                     | 20          | 25            | •             |              | 30                   | #10/3 TYPE MC                                          | DRYER                                      |
| $\left(1\right)$ | PUMP P-I                                                                     | (3) #I2 THHN<br>#I2 GND, <sup>3</sup> / <sub>4</sub> " EMT                                                                                 | 20                        | 27                                                | <u>_</u> <u>28</u>                           | 20                             | (3) #12 THHN<br>#12 GND, 3/4" EMT                                 | PUMP P-2 (SPARE)                    |                                                                                                                      | CABINET HEATER<br>CH-I                                                                                                                                                                                                                                     | #12/2 TYPE MC<br>CABLE WITH GND                                                                     | 20          | 27            | ╎┥            | <u>28</u>    | 30                   | CABLE WITH GND                                         | RECEPTACLE                                 |
|                  |                                                                              |                                                                                                                                            | 20                        | 29                                                |                                              | 20                             |                                                                   |                                     |                                                                                                                      |                                                                                                                                                                                                                                                            |                                                                                                     | 30          | <u>29</u> 个-  |               | -T <u>30</u> | 50G                  | #8/3 TYPE MC                                           | PANCE                                      |
|                  |                                                                              |                                                                                                                                            | 20                        | <u>31</u>                                         |                                              | 20                             |                                                                   |                                     |                                                                                                                      |                                                                                                                                                                                                                                                            | 1" SCH.40 PVC                                                                                       | 30          | 31            | •             | <u>32</u>    | 50G                  | CABLE WITH GND                                         |                                            |
| (1)              | PUMP P-9 (B-1)                                                               | (3) #12 THHN<br>#12 GND, <sup>3</sup> / <sub>4</sub> " EMT                                                                                 | 20                        | 33                                                | <u>→</u> <u>→_34</u>                         | 20                             | (3) #12 THHN<br>#12 GND, <sup>3</sup> ⁄4" EMT                     | PUMP P-10 (B-2)                     | (1)                                                                                                                  | TC2-T3 - SOFFIT<br>RECEPTACLES                                                                                                                                                                                                                             | #12/2 TYPE MC<br>CABLE WITH GND                                                                     | 20          | 33            |               | _ <u>_34</u> | 20                   | (2) #IO THWN<br>#IO GND, I" P√C                        | SIGN RECEPTACL                             |
|                  |                                                                              |                                                                                                                                            | 20                        | 35                                                |                                              | 20                             |                                                                   |                                     |                                                                                                                      | FLAG POLE LIGHT                                                                                                                                                                                                                                            | (2) #10 THWN<br>#10 GND, 1" PVC                                                                     | 20          | 35            |               | _ <u>~36</u> |                      |                                                        |                                            |
| <b>[</b> –       |                                                                              |                                                                                                                                            | 20                        | 37                                                |                                              | 20                             |                                                                   |                                     | -1                                                                                                                   | SPACE ONLY                                                                                                                                                                                                                                                 |                                                                                                     | —           | 37            | • • •         | _ <u>~38</u> |                      |                                                        | SPACE ONLY                                 |
| 2                | PUMP P-11<br>(SNOW MELT)                                                     | (3) #I2 THHN<br>#I2 GND, <b>3</b> ⁄4" EMT                                                                                                  | 20                        | 39                                                | <u>40</u>                                    | 20                             | (3) #I2 THHN<br>#I2 GND, ¾" EMT                                   | PUMP P-12 (SPARE)                   | 2                                                                                                                    | SPACE ONLY                                                                                                                                                                                                                                                 |                                                                                                     |             | <u>39</u>     |               | _ <u>^40</u> | _                    |                                                        | SPACE ONLY                                 |
|                  |                                                                              |                                                                                                                                            | 20                        |                                                   |                                              | 20                             |                                                                   |                                     |                                                                                                                      | SPACE ONLY                                                                                                                                                                                                                                                 |                                                                                                     | —           | 41            | ╞             | _ <u>_42</u> | 20                   | #12/2 TYPE MC<br>CABLE WITH GND                        | FIRE ALARM<br>PANEL                        |
|                  |                                                                              |                                                                                                                                            |                           |                                                   |                                              |                                |                                                                   |                                     |                                                                                                                      |                                                                                                                                                                                                                                                            |                                                                                                     |             |               |               |              |                      |                                                        |                                            |
|                  | (4) #12 THWN<br>(4) #12 THWN<br>FROM (2) 2C<br>(4) #6 THWN,                  | , I" PVC (CONTROLS<br>, #12 GROUND, I" PVC<br>DA/IP CIRCUIT BREAK<br>#8 GROUND, I" PVC<br>PUMP<br>CONTROL<br>PANEL<br>120/208V<br>3Φ,4WIRE | - VIF<br>(HEAS<br>(POWI)  | )<br>IN ATS<br>ER)<br>— PUMP S<br>INSTAL<br>SHALL | ATTERY (<br>STATION )<br>LED BY (<br>PROVIDI | CHAR<br>CONT<br>OTHEI<br>E POU | SER)<br>ROL PANEL. FURNIS<br>RS, ELECTRICAL CO<br>NER CONNECTION. | SHED AND<br>NTRACTOR                | - ALL EQU<br>PUMP ST<br>AND PRO<br>CONTRA<br>FOR INS<br>CONTRA<br>HARDWA<br>TO JUNC<br>WIRE, CO<br>HARDWA<br>INSTALL | IPMENT ASSOCIATED I<br>ATION SHALL BE PURC<br>OVIDED BY OWNER. EI<br>CTOR SHALL BE RESP<br>FALLING ALL EQUIPMEN<br>CTOR SHALL PROVIDE<br>RE TO INCLUDE BUT NO<br>TION BOXES, WIRE NUTS<br>INNECTORS, MOUNTING<br>RE, AND ETC. AS REQ<br>A COMPLETE SYSTEM. | NITH THE<br>CHASED<br>LECTRICAL<br>ONSIBLE<br>NT.<br>E ANY<br>OT LIMITED<br>S, CONDUIT,<br>UIRED TO |             |               |               | M            | No.                  | REVISION/S<br>I/Electrical/Plumbing Engineer           | UBMISSION                                  |
|                  |                                                                              | ER GROUND                                                                                                                                  |                           | · · · / · Z ·                                     | -                                            |                                |                                                                   | 1                                   |                                                                                                                      |                                                                                                                                                                                                                                                            |                                                                                                     |             |               |               |              |                      | CONSULTING                                             | ENGINEERS, D.F                             |

ALTERNATE #1

<u>GENERATOR</u> —

20KW NATURAL GAS

NEMA 3R ECLOSURE

BATTERY CHARGER

POWERED GENERATOR 120/208∨, 3¢, 50A MCB

1,500W BLOCK HEATER

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MEETING ROOM RECEPTACLES KITCHEN COUNTER RECEPTACLES DISHWASHER RECEPTACLE DAY ROOM RECEPTACLES

SIGN RECEPTACLE

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|   | GENERAL                                  |
|   | 2. ELECTRICAL<br>(NRTL) SUCH             |
|   | COMPONENT<br>3. ALL ELECTR<br>NEW YORK S |

|                 | ELECTRICAL FIXTURE SCHEDULE    |                                         |             |        |       |         |                                                                                  |  |  |
|-----------------|--------------------------------|-----------------------------------------|-------------|--------|-------|---------|----------------------------------------------------------------------------------|--|--|
| ESIGNATION      | MANUFACTURER                   | CATALOG #                               | TEMPERATURE | LUMENS | WATTS | VOLTAGE | TYPE                                                                             |  |  |
| Α               | DAY-BRITE<br>CFI BY<br>SIGNIFY | HL-5-22-G-LR<br>-33L-40-U-DZT           | 4000        | 3,345  | 39.6  | 120     | 2'X2' TROFFER WITH<br>0-10V DIMMING                                              |  |  |
| EM              | DAY-BRITE<br>CFI BY<br>SIGNIFY | HL-S-22-G-LR<br>-33L-40-U<br>-DZT-EMLED | 4000        | 3,345  | 39.6  | 120     | 2'X2' TROFFER WITH<br>O-IOV DIMMING, &<br>INTEGRAL EMERGENCY<br>BACK UP          |  |  |
| EEEB<br>B       | LEDALITE<br>BY SIGNIFY         | 7806-L-A-C-Q<br>-N-04-7-D-AI            | 4000        | 3560   | 39.2  | 120     | I'X4' FULL DOWN<br>LINEAR LED.                                                   |  |  |
| EM B            | LEDALITE<br>BY SIGNIFY         | 7806-L-A-C-Q<br>-N-04-N-D-AI            | 4000        | 3560   | 39.2  | 120     | I'X4' FULL DOWN<br>LINEAR LED W/<br>INTEGRAL EMERGENCY<br>BACK UP                |  |  |
|                 | LEGION LED<br>LIGHTING         | 193-110L-40-UNV<br>-1935MK              | 4000        | 15,297 | 109   | 120     | ADJUSTABLE HIGH<br>BAY LINEAR LED                                                |  |  |
| Емс             | LEGION LED<br>LIGHTING         | 193-110L-40-UNV<br>-EM12-1935MK         | 4000        | 15,297 | 109   | 120     | ADJUSTABLE HIGH<br>BAY LINEAR LED W<br>INTEGRAL<br>EMERGENCY BACK UP             |  |  |
| -¢ <sub>D</sub> | LIGHTOLIER<br>SIGNIFY          | CP6RBI0840W                             | 4000        | 1,250  | 14    | 120     | 6" ROUND LED. WET<br>LOCATION RATED.<br>HOUSE IN IC RATED<br>HOUSING W/ AIRSEAL. |  |  |
| E               | DAY-BRITE<br>CFI BY<br>SIGNIFY | FSWEZ-4-40L<br>-840-UNV                 | 4000        | 3,325  | 32    | 120     | GENERAL LINEAR LED<br>W/ WRAPAROUND LENS                                         |  |  |
| F               | DAY-BRITE<br>CFI BY<br>SIGNIFY | HL-5-24-G-LR<br>-41L-40-V-DZT           | 4000        | 4,090  | 46    | 120     | 2'X4' TROFFER WITH<br>0-10V DIMMING                                              |  |  |
| F               | DAY-BRITE<br>CFI BY<br>SIGNIFY | HL-5-24-G-LR<br>-4IL-40-U-DZT-<br>EMLED | 4000        | 4,090  | 46    | 120     | 2'X4' TROFFER WITH<br>O-IOV DIMMING, &<br>INTEGRAL EMERGENCY<br>BACK UP          |  |  |
| -¢ <sub>G</sub> | LIGHTOLIER<br>SIGNIFY          | CP4RB07840W                             | 4000        | 850    | Ш     | 120     | 4" ROUND LED. WET<br>LOCATION RATED.<br>HOUSE IN IC RATED<br>HOUSING W/ AIRSEAL. |  |  |
| -ф <sub>н</sub> | LIGHTOLIER<br>SIGNIFY          | P6RLW30830<br>CLPZIOU                   | 3000        | 3174   | 30    | 120     | 6" ROUND LED.<br>HOUSE IN IC RATED<br>HOUSING W/ AIRSEAL.                        |  |  |
| φ <sub>I</sub>  | STONCO                         | VWXL-14-NW-G1-8                         | 4000        | 1390   | 14    | 120     | ROUGHLYTE LED.<br>WALL MOUNTED                                                   |  |  |
|                 |                                |                                         |             |        |       |         |                                                                                  |  |  |

FIXTURE TYPE SHALL BE IDENTIFIED WITH UPPER CASE, BOLD LETTERING. EXAMPLE " A " FIXTURE 120V ZONE CIRCUIT FROM DCS CONTROLLER SHALL BE IDENTIFIED BY LOWER CASE LETTERING. EXAMPLE "a, b, c" FIXTURES WITH EMERGENCY LIGHTING SHALL BE IDENTIFIED BY THE "EM" TAG, AND FIXTURE SYMBOL LISTED ABOVE.

### SEISMIC DESIGN FOR ELECTRICAL EQUIPMENT

THE ELECTRICAL SYSTEM SHALL COMPLY WITH THE NEW YORK STATE UNIFORM FIRE PROTECTION AND BUILDING CODE SECTION 1613 AND APPLICABLE PROVISIONS OF ASCE 7 (ARCHITECTURAL, MECHANICAL AND ELECTRICAL COMPONENT SEISMIC DESIGN REQUIREMENTS).

ELECTRICAL CONTRACTOR SHALL HIRE NYS LICENSED PROFESSIONAL ENGINEER TO DESIGN AND PREPARE SHOP DRAWINGS WITH CALCULATIONS FOR EACH ELECTRICAL EQUIPMENT SUPPORT, CONDUIT SUPPORT, MULTIPLE CONDUIT SUPPORT, TRAPEZE AND SEISMIC RESTRAINT. SUBMIT SHOP DRAWINGS WITH CALCULATIONS TO ENGINEER FOR RECORD AND TO LOCAL AUTHORITY HAVING JURISDICTION FOR APPROVAL.

<u>SEISMIC REQUIREMENTS:</u> BUILDING USE CATEGORY - IV SIESMIC DESIGN CATEGORY - C

### ELECTRICAL NOTES

- CONTRACTOR SHALL PROVIDE TYPEWRITTEN SCHEDULES OF ALL CIRCUITRY IN ALL PANELS. SCHEDULES SHALL MATCH THE LOADS SHOWN IN CT PANEL SCHEDULE INCLUDED WITH THESE DRAWINGS. ALL SPARE PANEL SPACES SHALL BE FULLY PROTECTED WITH METAL BLANKS. \_ DEVICES MATERIALS AND PACKAGED EQUIPMENT SHALL BE LISTED AND LABELED BY A NATIONALLY RECOGNIZED TESTING LABORATORY
- H AS UNDERWRITERS LABORATORIES INC. (UL), FOR THE INTENDED USE, AND SHALL BEAR ITS LABEL. NOTE THAT NRTL APPROVAL OF INDIVIDUAL TS OF PACKAGED EQUIPMENT DOES NOT CONSTITUTE APPROVAL OF THE ENTIRE PACKAGE.
- RICAL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE NATIONAL ELECTRIC CODE 2017 EDITION (NEPA 70), AND THE BUILDING CODE OF STATE.
- 4. ELECTRICAL CONTRACTOR SHALL OBTAIN, PAY FOR AND COMPLY WITH ALL REQUIRED PERMITS. THE ELECTRICAL CONTR INSPECTIONS AND SUBMIT COPIES OF ACCEPTANCE CERTIFICATES TO OWNER PRIOR TO COMPLETION OF PROJECT.
- 5. ELECTRICAL CONTRACTOR SHALL PROVIDE AND INSTALL ALL BOXES, FITTINGS, CONNECTORS, COVER PLATES, AND NECESSARILY DETAILED ON THESE DRAWINGS TO RENDER THE ELECTRICAL INSTALLATION COMPLETE AND OPERATIVE, AND IN COMPLIANCE WITH APPLICABLE CODES.
- 6. ALL WIRING SHALL BE COPPER CONDUCTOR, MINIMUM SIZE #12 AWG.
- 7. ELECTRICAL CONTRACTOR SHALL FIELD VERIFY LOCATION OF EXISTING EQUIPMENT AND NOTE CONDITIONS AND AREAS WHERE WORK WILL OCCUR IN FIELD. 8. ELECTRICAL CONTRACTOR SHALL SEAL AROUND ALL PIPE PENETRATIONS THROUGH WALLS, FLOORS AND CEILINGS WITH AN INTUMESCENT FIRE STOP MATERIAL TO MAINTAIN FIRE AND SMOKE RATINGS.
- 9. ELECTRICAL CONTRACTOR SHALL COORDINATE WITH AND MEET ALL REQUIREMENTS OF SERVING POWER UTILITY COMPANY. IO. ELECTRICAL CONTRACTOR SHALL COORDINATE WITH ALL OTHER TRADES TO AVOID CONFLICTS OF EQUIPMENT INSTALLATION. ELECTRICAL CONTRACTOR
- SHALL VERIFY EXACT LOCATIONS OF ALL EQUIPMENT CONNECTIONS, WIRING DEVICES AND LIGHTING WITH ARCHITECT PRIOR TO INSTALLATION. II. ELECTRICAL CONTRACTOR SHALL SUBMIT EQUIPMENT SHOP DRAWINGS FOR APPROVAL BY ARCHITECT PRIOR TO COMMENCING INSTALLATION.
- 12. ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR ALL CUTTING, PATCHING AND PAINTING ASSOCIATED WITH ELECTRICAL WORK.
- 13. ELECTRICAL CONTRACTOR SHALL GUARANTEE ALL WORKMANSHIP AND MATERIAL INSTALLED UNDER THIS CONTRACT TO BE FREE FROM DEFECTS FOR A PERIOD OF ONE (I) YEAR FROM DATE OF COMPLETION AND ACCEPTANCE BY THE OWNER. CONTRACTOR AGREES TO REPLACE ANY DEFECTIVE EQUIPMENT
- AT NO ADDITIONAL COST TO THE OWNER FOR THE DURATION OF THE GUARANTEE PERIOD. 14. MOUNTING HEIGHTS FROM FINISHED FLOOR TO CENTER LINE OF DEVICES SHALL BE AS FOLLOWS UNLESS OTHERWISE NOTED ON DRAWINGS:

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CONVENIENCE OUTLETS: 18" LIGHT SWITCHES: 44"

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- COMMUNICATIONS OUTLETS: 18"
- FIRE ALARM PULL STATIONS: 44"
- FIRE ALARM HORNS AND STROBES: 80"

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SYMBOL

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|       | MISCEI | ITEMS | ΝΟΤ |

| RACTOR | SHALL | ARRANGE | FOR | ALL |
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|        |       |         |     |     |

| OTHER | MISCELLANEOUS | ITEMS, | NOT |
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| ELECTRICAL EQUIPMENT SCHEDULE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------|
| DESCRIPTION                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                |
| WALL MOUNTED L.E.D. EXIT SIGN WITH INTEGRAL BATTERY AND CHARGER FOR 90 MINUTE ILLUMINATION IN CASE OF POWER LOSS. SIGN SHA<br>WIRED TO UNSWITCHED HOT LEG OF INDICATED CIRCUIT. 120/277 VOLTS.                                                                                                                                                                                                                                                                                                                                                                                                                                                     | LL BE                          |
| CEILING MOUNTED L.E.D. EXIT SIGN WITH INTEGRAL BATTERY/CHARGER FOR 90 MINUTE ILLUMINATION IN CASE OF POWER LOSS. SIGN SHALL<br>WIRED TO UNSWITCHED HOT LEG OF INDICATED CIRCUIT. 120/277 VOLTS.                                                                                                                                                                                                                                                                                                                                                                                                                                                    | - BE                           |
| COMPUTER ACCESS POINT. PROVIDE I-GANG BACKLESS PVC OUTLET BOX WITH RESI-RINGS TO ACCEPT CONDUIT. PROVIDE AND INSTALL<br>IN WALL FROM BOX TO ACCESSIBLE SPACE ABOVE FINISHED CEILING. PROVIDE AND INSTALL I-GANG BOX FOR I2OV POWER RECEPTACLE<br>CONTRACTOR SHALL PROVIDE DEEP BACK 4X4 METAL OUTLET BOX INSTEAD OF PVC IN THE CASE OF INSTALLATION IN A FIRE-RATED WA<br>CEILING. ALL DATA CABLING SHALL BE FURNISHED AND INSTALLED BY OWNER'S VENDOR.                                                                                                                                                                                            | ¾" EMT<br>Ξ.<br>↓LL <i>O</i> R |
| TV ACCESS POINT. FURNISH AND INSTALL RECESSED CABLE MANAGEMENT AND POWER BOX WITH (1) 120V DUPLEX RECEPTACLE. VERIFY<br>MOUNTING HEIGHT AND LOCATION WITH OWNER PRIOR TO INSTALLATION. ALL DATA & AUDIO/VIDEO CABLING SHALL BE FURNISHED AND<br>INSTALLED BY OWNER'S VENDOR.                                                                                                                                                                                                                                                                                                                                                                       |                                |
| DCS 3-ZONE LIGHTING CONTROLLER. MOUNT SECURED ABOVE DROP CEILINGS. LIGHTING ZONES SHALL BE IDENTIFIED WITH LOWER CASE<br>LETTERING. (EXAMPLE: "a, b, c"). POWER CIRCUIT SHALL BE IDENTIFIED WITH THE CIRCUIT NUMBER. (EXAMPLE: "22")                                                                                                                                                                                                                                                                                                                                                                                                               |                                |
| TR-100 POWER PACK. 120VAC - 24VDC, 20A RATED.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                |
| IR QUATTRO MICRO DCS LOW VOLTAGE CEILING MOUNTED INFRARED VACANCY SENSOR, POWERED BY I OF 3 ZONES ON STEINEL DCS (6919<br>FOR MANUAL-ON/AUTO-OFF OPERATION. VERIFY ZONE IDENTIFICATION TAG ON SHEET E-3.                                                                                                                                                                                                                                                                                                                                                                                                                                           | 16), SET                       |
| IR QUATTRO SLIM DCS LOW VOLTAGE CEILING MOUNTED INFRARED VACANCY SENSOR, POWERED BY I OF 3 ZONES ON STEINEL DCS (69196)<br>FOR MANUAL-ON/AUTO-OFF OPERATION FOR CONFERENCE ROOM, SET FOR AUTO-ON/OFF FOR OPEN AREAS. VERIFY ZONE IDENTIFICATION<br>ON SHEET E-3.                                                                                                                                                                                                                                                                                                                                                                                   | ), SET<br>I TAG                |
| DY QUATTRO DCS LOW VOLTAGE CEILING MOUNTED INFRARED / ULTRA-SONIC OCCUPANCY SENSOR, POWERED BY I OF 3 ZONES ON STEINE<br>(69196), SET FOR AUTO-ON/AUTO-OFF OPERATION. VERIFY ZONE IDENTIFICATION TAG ON SHEET E-3.                                                                                                                                                                                                                                                                                                                                                                                                                                 | L DCS                          |
| 24VDC OCCUPANCY SENSOR (IS 345-24). CONNECT TO 24VDC SIDE OF STEINEL TR-100 POWER PACK (#63101).                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                |
| SINGLE POLE SWITCH, SPECIFICATION GRADE, 15 AMPERES, 120/277 VOLTS. ALL SWITCHES SHALL BE LABELED WITH SOURCE AND CIRCUIT N                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | IUMBER.                        |
| THREE WAY SWITCH, SPECIFICATION GRADE, 15 AMPERES, 120/277 VOLTS. ALL SWITCHES SHALL BE LABELED WITH SOURCE AND CIRCUIT NU                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | MBER.                          |
| FOUR WAY SWITCH, SPECIFICATION GRADE, 15 AMPERES, 120/277 VOLTS. ALL SWITCHES SHALL BE LABELED WITH SOURCE AND CIRCUIT NUM                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | IBER.                          |
| DCS ONE BUTTON LON/OFF SWITCH WITH DIMMING SLIDER.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                |
| SINGLE POLE OCCUPANCY WALL SWITCH. SET FOR AUTO ON/AUTO OFF (OCCUPANCY) OPERATION. 120/277 VOLTS.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                |
| PROGRAMMABLE, ASTRONOMIC, 7-DAY/365 DAY, 4-CIRCUIT ELECTRONIC TIME CLOCK. 120/277V INPUT, INDOOR METAL ENCLOSURE. (OR E                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | QUAL)                          |
| DUPLEX RECEPTACLE, SPECIFICATION GRADE, 20 AMPERES, 125 VOLTS. ALL RECEPTACLES SHALL BE LABELED WITH SOURCE AND CIRCUIT<br>NUMBER.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                |
| CEILING MOUNTED DUPLEX RECEPTACLE, SPECIFICATION GRADE, 20 AMPERES, 125 VOLTS. ALL RECEPTACLES SHALL BE LABELED WITH SO<br>AND CIRCUIT NUMBER.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | URCE                           |
| DUPLEX RECEPTACLE W/ USB-A & USB-C, SPECIFICATION GRADE, 20 AMPERES, 125 VOLTS. ALL RECEPTACLES SHALL BE LABELED WITH SC<br>AND CIRCUIT NUMBER.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | DURCE                          |
| DUPLEX RECEPTACLE WITH GFCI PROTECTION, SPECIFICATION GRADE, 20 AMPERES, 125 VOLTS. ALL RECEPTACLES SHALL BE LABELED W<br>SOURCE AND CIRCUIT NUMBER.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | IITH                           |
| DUPLEX RECEPTACLE WITH GFCI PROTECTION AND WEATHERPROOF COVER, SPECIFICATION GRADE, 20 AMPERES, 125 VOLTS. ALL RECEPT<br>SHALL BE LABELED WITH SOURCE AND CIRCUIT NUMBER.                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | ACLES                          |
| (2) DUPLEX OUTLETS IN COMMON BOX (QUAD), SPECIFICATION GRADE, 20 AMPERES, 125 VOLTS. ALL RECEPTACLES SHALL BE LABELED WI<br>SOURCE AND CIRCUIT NUMBER.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | ТН                             |
| 50A STRAIGHT BLADE RECEPTACLE IN COMMON BOX (QUAD), SPECIFICATION GRADE, 50 AMPERES, 125 VOLTS. ALL RECEPTACLES SHALL<br>LABELED WITH SOURCE AND CIRCUIT NUMBER. COORDINATE RECEPTACLE TYPE WITH EQUIPMENT TO BE SUPPLIED BY OWNER PRIOR TO<br>ORDERING.                                                                                                                                                                                                                                                                                                                                                                                           | BE                             |
| DATA OUTLET. PROVIDE I-GANG BACKLESS PVC OUTLET BOX WITH RESI-RINGS TO ACCEPT CONDUIT. PROVIDE AND INSTALL <sup>3</sup> /4" EMT IN W<br>FROM BOX TO ACCESSIBLE SPACE ABOVE FINISHED CEILING. CONTRACTOR SHALL PROVIDE DEEP BACK 4X4 METAL OUTLET BOX INSTEA<br>PVC IN THE CASE OF INSTALLATION IN A FIRE-RATED WALL OR CEILING. ALL CABLING SHALL BE FURNISHED AND INSTALLED BY OWNER'S<br>VENDOR                                                                                                                                                                                                                                                  | IALL<br>D OF                   |
| HARD WIRED CONNECTION - WHERE EQUIPMENT OR APPLIANCE DOES NOT HAVE INTEGRAL DISCONNECTING MEANS, ELECTRICAL CONTRACTO<br>SHALL PROVIDE INDEPENDENT DISCONNECT SWITCH.                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | ØR                             |
| UNFUSED DISCONNECT SWITCH.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                |
| KEY PAD / CARD READER SECURITY DEVICE - FURNISHED AND INSTALLED BY OTHERS. ELECTRICAL CONTRACTOR SHALL FURNISH AND IN<br>RECESSED JUNCTION BOX WITH ¾" EMT TO ABOVE FINISHED CEILING WITH NYLON DRAG LINE FOR FUTURE USE. VERIFY WITH OWNER PRIOR<br>INSTALLATION. REFER TO DETAIL #2 ON SHEET E501                                                                                                                                                                                                                                                                                                                                                | STALL<br>TO                    |
| SECURITY CAMERA DEVICE - FURNISHED AND INSTALLED BY OTHERS. ELECTRICAL CONTRACTOR SHALL FURNISH AND INSTALL RECESSED<br>JUNCTION BOX WITH 3/4" EMT ABOVE FINISHED CEILING WITH NYLON DRAG LINE FOR FUTURE USE. VERIFY LOCATION WITH OWNER PRIOR TO<br>INSTALLATION.                                                                                                                                                                                                                                                                                                                                                                                |                                |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                |
| FUSED DISCONNECT SWITCH.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                |
| FUSED DISCONNECT SWITCH.<br>JUNCTION BOX.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                |
| FUSED DISCONNECT SWITCH.<br>JUNCTION BOX.<br>MOTORIZED DAMPER - FURNISHED AND INSTALLED BY MECHANICAL CONTRACTOR, ELECTRICAL CONTRACTOR SHALL PROVIDE ELECTRICA<br>FIRE ALARM CONNECTIONS AS REQUIRED.                                                                                                                                                                                                                                                                                                                                                                                                                                             | L AND                          |
| FUSED DISCONNECT SWITCH.<br>JUNCTION BOX.<br>MOTORIZED DAMPER - FURNISHED AND INSTALLED BY MECHANICAL CONTRACTOR, ELECTRICAL CONTRACTOR SHALL PROVIDE ELECTRICA<br>FIRE ALARM CONNECTIONS AS REQUIRED.<br>BRANCH CIRCUIT OR HOMERUN: TYPE MC (METAL CLAD) CABLE OR EMT CONDUIT (REFER TO PANEL SCHEDULES FOR TYPE) WITH TYPE THHN<br>INSULATED COPPER CONDUCTORS. ALL WIRING SHALL BE CONCEALED IN WALLS AND ABOVE FINISHED CEILINGS UNLESS OTHERWISE NOTED                                                                                                                                                                                        | L AND                          |
| FUSED DISCONNECT SWITCH.<br>JUNCTION BOX.<br>MOTORIZED DAMPER - FURNISHED AND INSTALLED BY MECHANICAL CONTRACTOR, ELECTRICAL CONTRACTOR SHALL PROVIDE ELECTRICA<br>FIRE ALARM CONNECTIONS AS REQUIRED.<br>BRANCH CIRCUIT OR HOMERUN: TYPE MC (METAL CLAD) CABLE OR EMT CONDUIT (REFER TO PANEL SCHEDULES FOR TYPE) WITH TYPE THHN<br>INSULATED COPPER CONDUCTORS. ALL WIRING SHALL BE CONCEALED IN WALLS AND ABOVE FINISHED CEILINGS UNLESS OTHERWISE NOTED<br>BRANCH CIRCUIT: TYPE MC (METAL CLAD) CABLE WITH COPPER CONDUCTORS AND FULL SIZED GROUND. ALL WIRING SHALL BE CONCEALED<br>WALLS AND ABOVE FINISHED CEILINGS UNLESS OTHERWISE NOTED. | L AND<br>I<br>D.<br>ED IN      |

