NEW PUBLIC WORKS FACILITY

VILLAGE OF ARDSLEY

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4/7/22

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ISSUED FOR:
BID

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Project:

VILLAGE OF ARDSLEY
NEW YORK
1896

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GENERAL ABBREVIATIONS

A	
A/C	AIR CONDITION
A/C UNIT	AIR CONDITIONING UNIT
A/E	ARCHITECT /ENGINEER
AB	ANCHOR BOLT
ABAN	ABANDON
ABRSV	ABRASIVE
ACC	ACCESSIBLE
ADA	AMERICANS with DISABILITIES ACT
ADDL	ADDITIONAL
ADDM	ADDENDUM
ADH	ADHESIVE
ADJ	ADJACENT
AFF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
AFS	ABOVE FINISHED SLAB
AGGR	AGGREGATE
AHR	ANCHOR
AIA	AMERICAN INSTITUTE OF ARCHITECTS
AISC	AMERICAN INSTITUTE OF STEEL CONSTRUCTION
ALM	ALARM
ALT	ALTERNATE
ALUM	ALUMINUM
AMT	AMOUNT
ANOD	ANODIZED FINISH
ANT	ANTENNA
AOBE	AS ORDERED BY ENGINEER
APPD	APPROVED
APPROX	APPROXIMATE
ASCE	AMERICAN SOCIETY OF CIVIL ENGINEERS
ASPH	ASPHALT
ASTM	AMERICAN SOCIETY OF TESTING AND MATERIALS
ATCH	ATTACHMENT
ATTN	ATTENTION
AUTO	AUTOMATIC
AUX	AUXILIARY
AVG	AVERAGE
AWWA	AMERICAN WATER WORKS ASSOCIATION
B	
B PL	BASE PLATE
BAL	BALANCE
BFF	BELOW FINISH FLOOR
BFP	BACKFLOW PREVENTER
BLDG	BUILDING
BOT	BOTTOM
BC	BOTTOM OF CURB
BRKT	BRACKET
BS	BOTH SIDES
BW	BOTTOM OF WALL
C	
C	CHANNEL
℄	CENTERLINE
C to C	CENTER TO CENTER
CATV	COMMUNITY ANTENNA TELEVISION
CB	CATCH BASIN
CC	CUBIC CENTIMETER
CCF	HUNDRED CUBIC FEET
CCW	COUNTERCLOCKWISE
CERT	CERTIFY
CF/CI	CONTRACTOR FURNISHED/ CONTRACTOR INSTALLED
CF/OI	CONTRACTOR FURNISHED/OWNER INSTALLED
CFE	CONTRACTOR FURNISHED EQUIPMENT
CFM	CUBIC FEET PER MINUTE
CFS	CUBIC FEET PER SECOND
CHFR	CHAMFER
CHK	CHECK
CHKV	CHECK VALVE
CHMBR	CHAMBER
CIP	CAST IRON PIPE
CIRC	CIRCULAR
CLASS	CLASSIFICATION
CL	CLEAR
CMP	CORRUGATED METAL PIPE
cm	CENTIMETER
CO	CLEANOUT
CONC	CONCRETE
CTR	CENTER
CU	COPPER
CU FT	CUBIC FEET
CU IN	CUBIC INCH
CU YD	CUBIC YARD
D	
D	DEPTH
DBL	DOUBLE
DEG	DEGREES
DEG C	DEGREES CELCIUS
DEG F	DEGREES FAHRENHEIT
DEPT	DEPARTMENT
DIA	DIAMETER
DIM	DIMENSION
DIP	DUCTILE IRON PIPE
DIST	DISTANCE
E	
EA	EACH
EF	EACH FACE
EL/ELEV	ELEVATION
ELEC	ELECTRIC /ELECTRICAL
ENGR	ENGINEER
EQ	EQUAL
EQL SP	EQUALLY SPACED
EQUIP	EQUIPMENT
ETC	and so forth
EW	EACH WAY
EXIST	EXISTING
F	
FACIL	FACILITY
FES	FLARED END SECTION
FF	FAR FACE
FF EL/FFE	FINISH FLOOR ELEVATION
FFA	FROM FLOOR ABOVE
FFB	FROM FLOOR BELOW
FIN FL	FINISH FLOOR
FIN GR	FINISH GRADE
FLR	FLOOR
FLEX	FLEXIBLE
FLG	FLANGE
FPS	FEET PER SECOND
F.R.P.	FIBERGLASS REINFORCED PLASTIC
FSTNR	FASTENER
FT	FEET
G	
GA	GAUGE
GAL	GALLON
GALV	GALVANIZE(D)
GALV STL	GALVANIZED STEEL
GIP	GALVANIZED IRON PIPE
GPD	GALLONS PER DAY
GPH	GALLONS PER HOUR
GPM	GALLONS PER MINUTE
H	
HCP	HANDICAPPED
HDPE	HIGH DENSITY POLYETHYLENE
HGR	HANGER
HORIZ	HORIZONTAL / HORIZONTALLY
HP	HIGH POINT
HT	HEIGHT
HVAC	HEATING VENTILATION & AIR CONDITIONING
HYD	HYDRANT
I	
ID	INSIDE DIAMETER
INSTL	INSTALL
INV	INVERT
INV EL	INVERT ELEVATION
IP	IRON PIPE
ISO	INTERNATIONAL STANDARDS ORGANIZATION
L	
L	ANGLE
LAD	LADDER
LBS	POUNDS
LDG	LANDING
LF	LINEAR FEET
LKNT	LOCKNUT
LKWASH	LOCKWASHER
LLH	LONG LEG HORIZONTAL
LLV	LONG LEG VERTICAL
LNDSCP	LANDSCAPE
LOC	LOCATION
LOW	LIMIT OF WORK
LP	LOW POINT
LT	LIGHT
LVR	LOUVER
M	
M	METER
MAN	MANUAL
MATL	MATERIAL
MAX	MAXIMUM
ME	MATCH EXISTING
MECH	MECHANICAL
MED	MEDIUM
MFD	MANUFACTURED
MFG	MANUFACTURING
MFR	MANUFACTURE/ MANUFACTURER
MFR REC	MANUFACTURER'S RECOMMENDATION
MGD	MILLION GALLONS PER DAY
MH	MANHOLE
MIN	MINIMUM
MISC	MISCELLANEOUS
MJ	MECHANICAL JOINT
mm	MILLIMETER
MOD	MODEL
MTD	MOUNTED
MTG	MOUNTING
MULT	MULTIPLE
MUNIC	MUNICIPAL
N	
NA	NOT APPLICABLE
NEMA	NATIONAL ELECTRICAL MANUFACTURER'S ASSOCIATION
NF	NEAR FACE
NFPA	NATIONAL FIRE PROTECTION ASSOCIATION
NIC	NOT IN CONTRACT
NTS	NOT TO SCALE
O	
OC	ON CENTER
OD	OUTSIDE DIAMETER
OFD	OVERFLOW DRAIN
OPNG	OPENING
OPT	OPTIONAL
ORIG	ORIGINAL
OSHA	OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION
OVFL	OVERFLOW
P	
PCF	POUNDS PER CUBIC FOOT
PERF	PERFORATED
PERIM	PERIMETER
PG	PRESSURE GAGE
PIV	POST INDICATOR VALVE
PL	PROPERTY LINE
PLF	POUNDS PER LINEAR FOOT
PNL	PANEL POLY POLYETHYLENE (PLASTIC)
PPM	PARTS PER MILLION
PR	PAIR
PRCST	PRECAST
PREFAB	PREFABRICATE
PRELIM	PRELIMINARY
PREP	PREPARATION
PRKG	PARKING
PROJ	PROJECT
PROP	PROPERTY
PS	PUMP STATION
PSF	POUNDS PER SQUARE FOOT
PSI	POUNDS PER SQUARE INCH
PSIG	POUNDS PER SQUARE INCH, GAGE
PVC	POLY VINYL CHLORIDE
Q	
QTY	QUANTITY
QUAL	QUALITY
R	
RCP	REINFORCED CONCRETE PIPE
REQ	REQUIRE
REQ'D	REQUIRED
RM	ROOM
RND	ROUND
ROW	RIGHT OF WAY
RPM	REVOLUTIONS PER MINUTE
RPS	REVOLUTIONS PER SECOND
RT	RIGHT
S	
SAN	SANITARY
SDL	SADDLE
SF	SQUARE FOOT (FEET)
SLNT	SEALANT
SPEC	SPECIFICATION
SPRT	SUPPORT
SQ	SQUARE
SQ IN	SQUARE INCH
SQ YD	SQUARE YARD
SST	STAINLESS STEEL
STAG	STAGGERED
STIR	STIRRUP
STD	STANDARD
SUPPL	SUPPLEMENT
SURF	SURFACE
SURV CAM	SURVEILLANCE CAMERA
SURV EQUIP	SURVEILLANCE EQUIPMENT
SURV MON	SURVEILLANCE MONITOR
T	
TB–xx	TEST BORING–xx (e.g., TB–01)
TEL	TELEPHONE
T	TOP
T/	TOP OF
T/F	TOP OF FRAME
T/S	TOP OF STEEL
TC	TOP OF CURB
TFF	TOP OF FINISH FLOOR
TOB	TOP OF BERM
TOC	TOP OF CONCRETE
TOC FTG	TOP OF CONCRETE FOOTING
TOC WALL	TOP OF CONCRETE WALL
TOF	TOP OF FLOOR
TOM	TOP OF MASONRY
TOP	TOP OF PARAPET
TOS	TOP OF SLAB
TW	TOP OF WALL
THK	THICK, THICKNESS
THRU	THROUGH
THRUOUT	THROUGHOUT
TYP	TYPICAL
U	
UGND	UNDERGROUND
U.L.	UNDERWRITER'S LABORATORIES
UNEX	UNEXCAVATED
UNFIN	UNFINISH
UNIF	UNIFORM
UNO/UON	UNLESS NOTED OTHERWISE
V	
VAR	VARIES
VCP	VITRIFIED CLAY PIPE
VERT	VERTICAL / VERTICALLY
VOL	VOLUME
VRFY	VERIFY
W	
W	WIDE
WC	WATER CLOSET
WD	WOOD
W/	WITH
W/O	WITHOUT
WDW	WINDOW
WM	WATER METER
WP	WEATHERPROOF
WPR	WORKING PRESSURE
WTR	WATER
WWF	WELDED WIRE FABRIC
WWM	WELDED WIRE MESH

EXISTING CONDITIONS LEGEND

TREE CANOPY
DECIDUOUS TREE
CONIFEROUS TREE
SIGN
UTILITY POLE
LIGHT POLE
HYDRANT
WATER VALVE
SANITARY MANHOLE
STORM MANHOLE
TELEPHONE MANHOLE
ELECTRIC MANHOLE
CATCH BASIN
GAS VALVE
FENCE
GUIDERAIL
OHV — OVERHEAD UTILITY WIRES
GAS — GAS LINE
UGTV — UNDERGROUND CATV
W — WATER LINE & WATER VALVE
SAN — SANITARY SEWER LINE
ST — STORM SEWER LINE
CURBING
UGE — UNDERGROUND ELECTRIC
CONC. SURFACE

PROPOSED CONDITIONS LEGEND

THE GRAPHICAL LEGEND BELOW DEPICTS COMMON CIVIL WORKS FACILITIES USED ON MANY TYPES OF PROJECTS. NOT ALL ITEMS SHOWN BELOW MAY BE USED ON THE DRAWINGS THAT FOLLOW. USE OF THE LEGEND SHOULD BE A SECONDARY METHOD IN DETERMINING TYPE OF ENTITY DEPICTED ON THE DRAWINGS.

DOUBLE SIDED SINGLE POST SIGN
SINGLE POST SIGN
PAVEMENT MARKINGS
PAVED ROAD
DOUBLE POST SIGN
DOUBLE SIDED DOUBLE POST SIGN
GRAVEL ROAD
CURBING
EXPANSION JOINT
HANDICAP RAMP
CONTROL JOINT
CONCRETE WALK
TRANSITION CURB
DROP CURB
HANDICAP PAVEMENT MARKING
PAVEMENT MARKING
160 — CONTOUR
x 163.50 — SPOT ELEVATION
BORING SYMBOL W/NUMBER
POST INDICATOR VALVE
HYDRANT
W — WATER MAIN
VALVE
COUPLING
PIPE FITTING (SEE PLAN FOR TYPE)
CAP WITH THRUST BLOCK
CATCH BASIN
YARD DRAIN
D — STORM DRAIN
STORM DRAIN MANHOLE
CULVERT
FES (FLARED END SECTION)
STORM HEADWALL/OUTFALL
SANITARY SEWER CLEANOUT
MH — SANITARY SEWER
SANITARY SEWER MANHOLE
UNDERGROUND POWER VAULT
E — UNDERGROUND POWER
UNDERGROUND PULL BOX
STREET LIGHT
SF — SILT FENCE
LOW — LIMIT OF WORK
CHECK DAM
CATCH BASIN INLET PROTECTION DEVICE
TREE PROTECTION DEVICE
HEAVY DUTY ASPHALT PAVING
MILL AND OVERLAY ASPHALT PAVING
GUIDE RAIL
CHAIN LINK FENCE

GENERAL NOTES

1. EXISTING SURVEY PREPARED BY TECTONIC ENGINEERING AND SURVEYING CONSULTANTS. PC. COMPLETED ON 3/16/2020. MAP ENTITLED "BOUNDARY AND TOPOGRAPHIC SURVEY, VILLAGE OF ARDSLEY, 220 HEATHERDELL ROAD, VILLAGE OF ARDSLEY, WESTCHESTER COUNTY, N.Y."
2. WETLAND MAPPING PREPARED BY TECTONIC ENGINEERING AND SURVEYING CONSULTANTS, PC, INCLUDED ON MAPPING IDENTIFIED IN NOTE #1.
3. EXISTING UNDERGROUND UTILITY INFORMATION PROVIDED BY THE TOWN OF GREENBURGH FROM VARIOUS MAPS, RECORDING APPROXIMATE LOCATIONS OF WATER AND SEWER LINES. MAPS DATED 1943, 1953, 1965, AND 2002. (NOT FROM SURVEY)
4. LIMITED UNDERGROUND UTILITIES WERE MAPPED BY SOFTDIG UNDERGROUND SERVICES, INC., QUALITY LEVEL B WORK, DATED 2/1/2021. VACUUM EXCAVATION DATA PROVIDED ON 3/16/2021.
5. GEOTECHNICAL REPORT BY TERRACON CONSULTANTS – NY, INC, DBA DENTE GROUP, ALBANY, NY, DATED OCTOBER 2, 2020.
6. THE CONTRACTOR SHALL CONSULT ALL OF THE DRAWINGS AND SPECIFICATIONS FOR COORDINATION REQUIREMENTS BEFORE COMMENCING CONSTRUCTION AND COORDINATE WITH OTHERS AS REQUIRED.
7. THE LOCATION OF UNDERGROUND UTILITIES SHOWN ON THIS PLAN ARE FOR INFORMATION ONLY, AND ALL UTILITIES MAY NOT BE SHOWN. THE CONTRACTOR SHALL CONTACT U.F.P.O. (1–800–962–7962) AND THE PROPER LOCAL AUTHORITIES OR RESPECTIVE UTILITY COMPANY HAVING JURISDICTION TO CONFIRM THE LOCATION OF ALL EXISTING UTILITIES BEFORE COMMENCING WORK. CARE SHOULD BE TAKEN IN ALL EXCAVATIONS DUE TO THE POSSIBLE EXISTENCE OF UNRECORDED UTILITIES. ANY COSTS INCURRED BY THE CONTRACTOR DUE TO FAILURE TO CONTACT THE PROPER AUTHORITIES SHALL BECOME THE RESPONSIBILITY OF THE CONTRACTOR.
8. THE CONTRACTOR SHALL VERIFY ALL EXISTING INFORMATION ON SITE. ANY DISCREPANCIES BETWEEN PLANS AND ACTUAL CONDITIONS SHALL BE IMMEDIATELY COMMUNICATED TO THE OWNER'S REPRESENTATIVE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING ALL EXISTING GRADES IN THE FIELD PRIOR TO THE COMMENCEMENT OF ANY WORK. FIELD VERIFICATIONS SHALL BE PERFORMED THROUGHOUT ALL AREAS OF NEW CONSTRUCTION. THIS FIELD VERIFICATION IS IMPERATIVE TO ENSURE THAT THERE ARE NO DISCREPANCIES BETWEEN THE SITE SURVEY AND WHAT HAS BEEN VERIFIED. IF DISCREPANCIES DO EXIST, THE CONTRACTOR SHALL BE RESPONSIBLE FOR NOTIFYING THE ARCHITECT/OWNER'S REPRESENTATIVE, IMMEDIATELY, AND PRIOR TO ANY CONSTRUCTION, SO NECESSARY ADJUSTMENTS AND/OR MODIFICATIONS CAN BE MADE TO ACCOMMODATE THESE DISCREPANCIES. ANY FAILURE TO VERIFY THE GRADES PRIOR TO CONSTRUCTION SHALL BE AT THE RISK AND COST OF THE CONTRACTOR.
9. THE CONTRACTOR SHALL PROVIDE STAKED LAYOUT OF PROPOSED IMPROVEMENTS FOR THE ARCHITECT/OWNER'S REPRESENTATIVE REVIEW AND APPROVAL BEFORE COMMENCING WITH ANY GROUND DISTURBANCE.
10. THE CONTRACTOR SHALL VERIFY PROPOSED GRADES PRIOR TO CONSTRUCTION AND REPORT ANY DISCREPANCIES TO THE OWNER'S REPRESENTATIVE.
11. THE CONTRACTOR SHALL BE RESPONSIBLE FOR SECURING ALL PERMITS FOR THE WORK FROM ANY UTILITY COMPANIES OR OTHER GOVERNING BODIES HAVING JURISDICTION OVER THE WORK OUTLINED IN THESE DRAWINGS.
12. THE CONTRACTOR SHALL ESTABLISH PERMANENT SECONDARY BENCHMARKS PRIOR TO THE START OF CONSTRUCTION. ALL SECONDARY BENCHMARKS SHALL BE SO LOCATED THAT THEY WILL NOT BE DISTURBED BY CONSTRUCTION.
13. THE CONTRACTOR SHALL MAINTAIN ALL POINTS OF CONSTRUCTION INGRESS AND EGRESS TO PREVENT TRACKING OR MOVEMENT OF SEDIMENT OR DEBRIS ONTO PUBLIC ROADS.
14. THE CONTRACTOR SHALL PROVIDE DUST AND EROSION/SEDIMENT CONTROL AS PER SPECIFICATIONS AND/OR AS APPROVED BY THE ARCHITECT/OWNER'S REPRESENTATIVE.
15. THE CONTRACTOR SHALL INSTALL SILT FENCE(S) PRIOR TO ANY SOIL DISTURBANCE. THE CONTRACTOR SHALL INSTALL AND REGULARLY MAINTAIN, AS REQUIRED, ANY AND ALL SILTATION CONTROL MEASURES AND MONITOR THE CONTROL DEVICES AT LEAST ONCE A WEEK TO ENSURE THEIR EFFECTIVENESS.
16. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING TEMPORARY MEANS OF CONVEYANCE FOR STORM SEWER SYSTEM DISRUPTED DURING CONSTRUCTION, UNTIL SUCH A TIME THAT THE NEW STORM SEWER SYSTEM IS COMPLETE. ALL STORM WATER SHALL BE DISCHARGED OUTSIDE THE CONSTRUCTION AREA IN AN ACCEPTABLE LOCATION THAT WILL NOT ALLOW SEDIMENT TRANSFER TO SENSITIVE RECEPTORS (WETLANDS, STORM SEWERS, WATER BODIES, ETC) OR CAUSE PONDING AND/OR FLOODING. THE CONTRACTOR SHALL STABILIZE DISTURBED SLOPES IMMEDIATELY TO PREVENT EROSION FROM OCCURRING WITH AN APPROPRIATE EROSION CONTROL MEASURE. SEE SPECIFICATIONS AND DETAILS. IF SLOPE EROSION IS OBSERVED, REPAIR IMMEDIATELY.
17. ALL ITEMS REQUIRING REMOVAL SHALL BE REMOVED TO FULL DEPTH AND LENGTH AS APPLICABLE. REMOVE TREE ROOTS TO 24" DEPTH BELOW FINISHED GRADE (MINIMUM). ITEMS NOT SPECIFICALLY IDENTIFIED THAT INTERFERE WITH NEW CONSTRUCTION MUST ALSO BE REMOVED. ALL REFUSE, DEBRIS AND MISCELLANEOUS ITEMS TO BE REMOVED SHALL BE LEGALLY DISPOSED OF OFF–SITE BY THE CONTRACTOR.
18. CONTRACTOR SHALL STRIP, CLEAR, GRUB AND STOCKPILE EXISTING TOPSOIL TO FULL DEPTH WITHIN LIMIT OF GRADING AND FROM ALL AREAS SUBJECT TO CONSTRUCTION ACTIVITY (INCLUDING STAGING AREAS) BEFORE COMMENCING GRADING OPERATIONS. STRIPPED AND STOCKPILED TOPSOIL IS THE PROPERTY OF THE OWNER, UNLESS AUTHORIZED, AND SHALL NOT BE REMOVED FROM THE SITE. ANY EXCESS OF LOAM ENCOUNTERED WILL BE USED ON SITE IN AREAS DESIGNATED BY THE ARCHITECT/OWNER'S REPRESENTATIVE. ALL UNUSABLE MATERIAL, AS SPECIFIED, SHALL BE REMOVED FROM THE SITE.
19. ALL EXISTING TREES AND SHRUBS TO REMAIN SHALL BE PROTECTED THROUGHOUT THE TIME OF CONSTRUCTION, AS SPECIFIED AND/OR DIRECTED BY THE OWNER'S REPRESENTATIVE. SEE CONSTRUCTION DETAIL SHEETS FOR MORE INFORMATION.
20. ALL FILL SLOPES 3:1 OR GREATER SHALL RECEIVE BIODEGRADABLE FABRIC OR APPROVED EQUIVALENT FOR EROSION CONTROL, UNLESS OTHERWISE SHOWN OR DIRECTED BY THE ARCHITECT/OWNER'S REPRESENTATIVE.
21. ANY AREA OUTSIDE THE LIMIT OF WORK THAT IS DISTURBED SHALL BE RESTORED TO ITS ORIGINAL CONDITION AT NO COST TO THE OWNER.
22. THE CONTRACTOR SHALL BE RESPONSIBLE FOR REPAIRING ALL AREAS DISTURBED AND/OR DAMAGED FROM CONSTRUCTION ACTIVITIES INCLUDING, BUT NOT LIMITED TO, LAWNS, WALKS, PAVEMENTS, ETC.. IT IS EXPECTED THAT THE CONTRACTOR SHALL MAKE PHOTO LOGS OF ALL EXISTING SITE CONDITIONS PRIOR TO CONSTRUCTION FOR THEIR RECORDS.
23. CONSTRUCTION AND/OR DISTURBANCE SHALL NOT EXTEND BEYOND OWNER'S PROPERTY WITHOUT WRITTEN PERMISSION/PERMIT(S)/FROM ADJACENT LANDOWNERS.
24. DIGITAL CAD DOCUMENTS ARE AVAILABLE TO THE CONTRACTOR IN .DWG FORMAT UPON REQUEST FOR USE IN SITE LAYOUT.

DRAWING ORGANIZATION

CIVIL DISCIPLINE
DISCIPLINE GROUP NUMBER
DRAWING NUMBER
DISCIPLINE GROUPS

C	0	01 CIVIL ABBREVIATIONS AND SYMBOLS LEGEND
C	1	01 SITE PLANS
C	2	01 PROFILES
C	3	01 SECTIONS
C	4	01 ENLARGEMENT PLANS
C	5	01 CIVIL DETAILS

DETAIL NUMBER: A1 — DETAIL TITLE — DETAIL TYPE/NAME
SCALE: N.T.S. — SCALE
DETAIL TITLE ON DETAIL DRAWING

DIRECTION OF VIEW — SECTION NUMBER: A1 / C101 — DRAWING NUMBER WHERE SECTION IS DRAWN
SECTION INDICATION

DETAIL NUMBER: A1 / C101 — DRAWING NUMBER WHERE DETAIL IS DRAWN
DETAIL SYMBOL

DETAIL NUMBER: A1 / C101 — DRAWING AREA REQUIRING DETAIL — DRAWING NUMBER WHERE DETAIL IS DRAWN
DETAIL INDICATORS

Project:
VILLAGE OF ARDSLEY, NY
NEW PUBLIC WORKS FACILITY
220 HEATHERDELL ROAD,
VILLAGE OF ARDSLEY,
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Drawing Title:
CIVIL ABBREVIATION GENERAL NOTES & LEGENDS

Sheet Number:
C000

P:\NY\Ardsley, Village of\Ardsley DPW\CAD\Civil\03-Phase 2 SITEWORK\PASS\C000 CIVIL ABBREVIATION GENERAL NOTES AND LEGENDS.dwg

EXISTING OVERHEAD UTILITIES (ELECTRIC, CABLE, FIBER OPTIC, COMMUNICATIONS) TO BE RELOCATED UNDERGROUND WITHIN PROJECT SITE. REMOVE UTILITY POLES, AS SHOWN.

EXISTING STONE WALL TO BE RE-STACKED WHERE IT HAS COLLAPSED. MATCH EXISTING VERTICAL WALL FACE IN CHARACTER, USING STONES FROM SITE, MORTARED JOINTS NOT REQUIRED.

NEWLY COMPLETED POND CONSTRUCTION

PROPERTY LINE

N/F TOWN OF GREENBURGH REC. FI SECTION 4.30 BLOCK 14, LOT 61

EXISTING FIRE HYDRANT, WATER PIT, VALVES, AND PIPING TO BE REMOVED

CLEAR AND GRUB SITE TO ALLOW FOR NEW WORK. DO NOT DISTURB WETLANDS TO REMAIN. REMOVE AND STOCKPILE EXISTING TOPSOIL FOR REUSE.

APPROXIMATE AREA OF PROPOSED SALT STORAGE STRUCTURE

APPROXIMATE LOCATION OF EXISTING TOPSOIL STOCKPILE (VILLAGE TO USE / RELOCATE)

NAD 83

McDowell Park

HEATHERDELL ROAD

OLYMPIC LANE

SAWCUT AND REMOVE EXISTING CURB AS NEEDED TO INSTALL NEW WORK. NEATLY SAWCUT ASPHALT PAVEMENT ALONG EDGE OF HEATHERDELL ROAD (12" INTO LANE) AND REMOVE ASPHALT PAVEMENT

BENCHMARK : SPIKE IN POLE = ELEV 278.87'

DEMOLISH AND REMOVE EXISTING WOODEN FENCE / GUIDERAIL ON EITHER SIDE OF THE DRIVEWAY

LIMIT OF WORK, TYP.

EXISTING 48" DIAMETER STORM CONVEYANCE PIPING FROM POND

EXISTING STONE WALL

APPROXIMATE LOCATION OF EXISTING 6" D.I.P. WATER PIPE TO EXISTING FIRE HYDRANT. RETAIN (PROTECT) APPROXIMATELY 65 L.F. OF PIPE WITHIN THE PROJECT SITE - FOR FUTURE CONNECTION TO NEW 8" WATER PIPE - SEE UTILITY PLAN.

ALIGNMENT OF EXISTING WATER SOURCE IS UNKNOWN BEYOND SITE BOUNDARY. SEE NOTE #12

SILT FENCE (TYP.) 3/C500

EXISTING BUILDINGS REMOVED IN PRIOR CONTRACT AND BACKFILLED WITH STRUCTURAL FILL TO SURROUNDING GRADES

EX. POND

EXISTING UTILITY POLE TO BE REMOVED, TYP.

EXISTING CHAIN LINK FENCE TO BE REMOVED, TYP.

EXISTING ASPHALT PAVEMENT TO BE REMOVED, TYP.

APPROXIMATE AREA OF PROPOSED MAIN BUILDING

LIMITS OF WETLAND REMOVAL (0.024 ACRES)

EXISTING WETLANDS TO REMAIN

EXISTING GUIDERAIL

EXISTING SWING GATE

EXISTING (2) UNDERGROUND 4" CONDUIT. SEE NOTE 1.

NOTE 2

NOTE 3

NOTE 4

EXISTING NEWLY PLACED ASPHALT PAVEMENT

EXISTING CHAIN LINK FENCE

EXISTING CONCRETE PAD WITH GAS METER

EXISTING UNDERGROUND COMMUNICATION CONDUIT

LIMIT OF WORK, TYP.

MATCH LINE - SHEET C104, 1 - MATCH LINE - C100 EXISTING CONDITIONS & DEMOLITION PLAN

EXISTING (3"- 4"?) WATER LINE TO BE ABANDONED IN PLACE.

SAWCUT EX. ASPHALT PAVEMENT AND REMOVE TO ALLOW PROPOSED WATER PIPING TO BE INSTALLED - SEE UTILITY PLAN C103

APPROXIMATE LOCATION OF EXISTING GAS MAIN (NO DISTURBANCE)

EXISTING SAN. FORCE MAIN TO BE DEMOLISHED AND REMOVED

APPROXIMATE LOCATION OF EXISTING ASPHALT MILLING PARKING AREA

SANITARY SEWER (1953, 1965 MAPPING)

EX. 8" PVC SANITARY SEWER @ 0.5% SLOPE (2002 GREENSPAN MAP)

EXISTING (3"- 4"?) WATER LINE TO BE ABANDONED IN PLACE. CAP ENDS.

EXISTING UTILITY POLE WHERE OVERHEAD UTILITIES (ELECTRIC, CABLE, COMMUNICATIONS, FIBER...) COMING FROM HEATHERDELL ROAD, CURRENTLY TRANSITION FROM OVERHEAD TO UNDERGROUND. REMOVE UTILITY POLE.

EXISTING SANITARY MANHOLE AND PORTION OF 8" PVC SANITARY PIPE TO BE DEMOLISHED AND REMOVED. SEE UTILITY PLAN FOR NEW CONNECTION TO EXISTING 8" PVC SANITARY SEWER.

EXISTING TREES TO BE REMOVED (AND GRUB ROOTS TO A MINIMUM DEPTH OF 24") TYPICAL. ADDITIONAL TREES (NOT IDENTIFIED ON SURVEY) MAY ALSO NEED TO BE REMOVED TO ALLOW NEW WORK. DO NOT REMOVE TREES WITHOUT PRIOR WRITTEN APPROVAL BY OWNER AND/OR SITE REPRESENTATIVE.

S 83°27'05" W 152.88'

N 33°32'25" E 459.19'

N 80°28'45" W 28.32'

N 89°15'45" W 11.12'

S 28°12'53" W 19.05'

S 86°19'15" W 89.98'

N 73°04'35" W 113.12'

S 28°09'55" W

PROPERTY LINE

SPRAIN BROOK

PARKWAY

NOTES:

1. EXISTING 4" CONDUITS ARE HDPE, MEETING CON ED STANDARDS.
2. EXISTING UNDERGROUND ELECTRIC LINE IS ASSUMED TO CONTINUE FROM THIS POINT, SWEEPING NORTHWARD UNTIL IT REACHES THE EXISTING ELECTRIC TRANSFORMER ON LANDS OF THE TOWN OF GREENBURGH. EXERCISE CAUTION WITH ALL EXCAVATION.
3. EXISTING UNDERGROUND NATURAL GAS LINE IS ASSUMED TO CONTINUE FROM THIS POINT, SWEEPING SOUTHWARD TO THE EXISTING VALVE, VISIBLE IN THE EXISTING ROADWAY AT THE INTERSECTION OF OLYMPIC LANE AND HEATHERDELL ROAD. EXERCISE CAUTION WITH ALL EXCAVATION.
4. AN UNKNOWN UNDERGROUND UTILITY WAS FOUND IN THIS LOCATION BY SOFTDIG UTILITY LOCATORS.
5. SOIL EXCAVATION HOLES, LABELED "TH-1" THROUGH "TH-6" ARE VACUUM EXCAVATION LOCATIONS BY SOFTDIG. SEE DATA SHEETS FOR INFORMATION.
6. SOIL BORINGS LABELED "B-1" THROUGH "B-13" ARE SOIL BORE LOCATIONS BY TERRACON,. SEE SOIL BORING LOGS.
7. EXISTING SURVEY PREPARED BY TECTONIC ENGINEERING AND SURVEYING CONSULTANTS, PC. COMPLETED ON 3/16/2020. MAP ENTITLED "BOUNDARY AND TOPOGRAPHIC SURVEY, VILLAGE OF ARDSLEY, 220 HEATHERDELL ROAD, VILLAGE OF ARDSLEY, WESTCHESTER COUNTY, N.Y."
8. WETLAND MAPPING PREPARED BY TECTONIC ENGINEERING AND SURVEYING CONSULTANTS, PC, INCLUDED ON MAPPING IDENTIFIED IN NOTE #1.
9. EXISTING UNDERGROUND UTILITY INFORMATION PROVIDED BY THE TOWN OF GREENBURGH FROM VARIOUS MAPS, RECORDING APPROXIMATE LOCATIONS OF WATER AND SEWER LINES. MAPS DATED 1943, 1953, 1965, AND 2002. (NOT FROM SURVEY)
10. LIMITED UNDERGROUND UTILITIES WERE MAPPED BY SOFTDIG UNDERGROUND SERVICES, INC., QUALITY LEVEL B WORK, DATED 2/1/2021. VACUUM EXCAVATION DATA PROVIDED ON 3/16/2021.
11. GEOTECHNICAL REPORT BY TERRACON CONSULTANTS – NY, INC, DBA DENTE GROUP, ALBANY, NY, DATED OCTOBER 2, 2020.
12. CONTRACTOR SHALL PERFORM TEST DIGS TO VERIFY THE EXISTING WATER PIPE LOCATION, MATERIAL, AND ELEVATION. CUT AND CAP EXISTING (ASSUMED 6") DIP WATER AND REMOVE PORTION NOT BEING USED.
13. SEE GENERAL NOTES ON SHEET C000.
14. CONTRACTOR SHALL CONTACT SITE REPRESENTATIVE IF EXISTING UNDERGROUND UTILITIES ARE FOUND – FOR GUIDANCE OF THEIR TREATMENT.
15. THE CONTRACTOR SHALL MAINTAIN ALL POINTS OF CONSTRUCTION INGRESS AND EGRESS TO PREVENT TRACKING OR MOVEMENT OF SEDIMENT OR DEBRIS ONTO PUBLIC ROADS.
16. PROTECT ALL EXISTING UTILITIES AND SUBSURFACE IMPROVEMENTS TO REMAIN, UNLESS OTHERWISE DIRECTED.
17. ALL DISTURBED AREAS, IF NOT OTHERWISE TREATED, SHALL BE FINE GRADED, TOPSOILED AND SEEDED WITH AN APPROVED PERENNIAL GRASS MIXTURE.
18. CONTRACTOR SHALL ENSURE POSITIVE DRAINAGE AWAY FROM BUILDING AND AS SHOWN OR IMPLIED.
19. CONTRACTOR SHALL PROVIDE ADDITIONAL MEASURES OF EROSION CONTROL AS SITE CONDITIONS WARRANT.

1 EXISTING CONDITIONS & DEMOLITION PLAN

SCALE: BAR SCALE

0' 5' 10' 15' 30' 60'

SCALE: 1" = 30'-0"

Project:

VILLAGE OF ARDSLEY, NY

NEW PUBLIC WORKS FACILITY

220 HEATHERDELL ROAD, VILLAGE OF ARDSLEY, NEW YORK 10502

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EXISTING CONDITIONS & DEMOLITION PLAN

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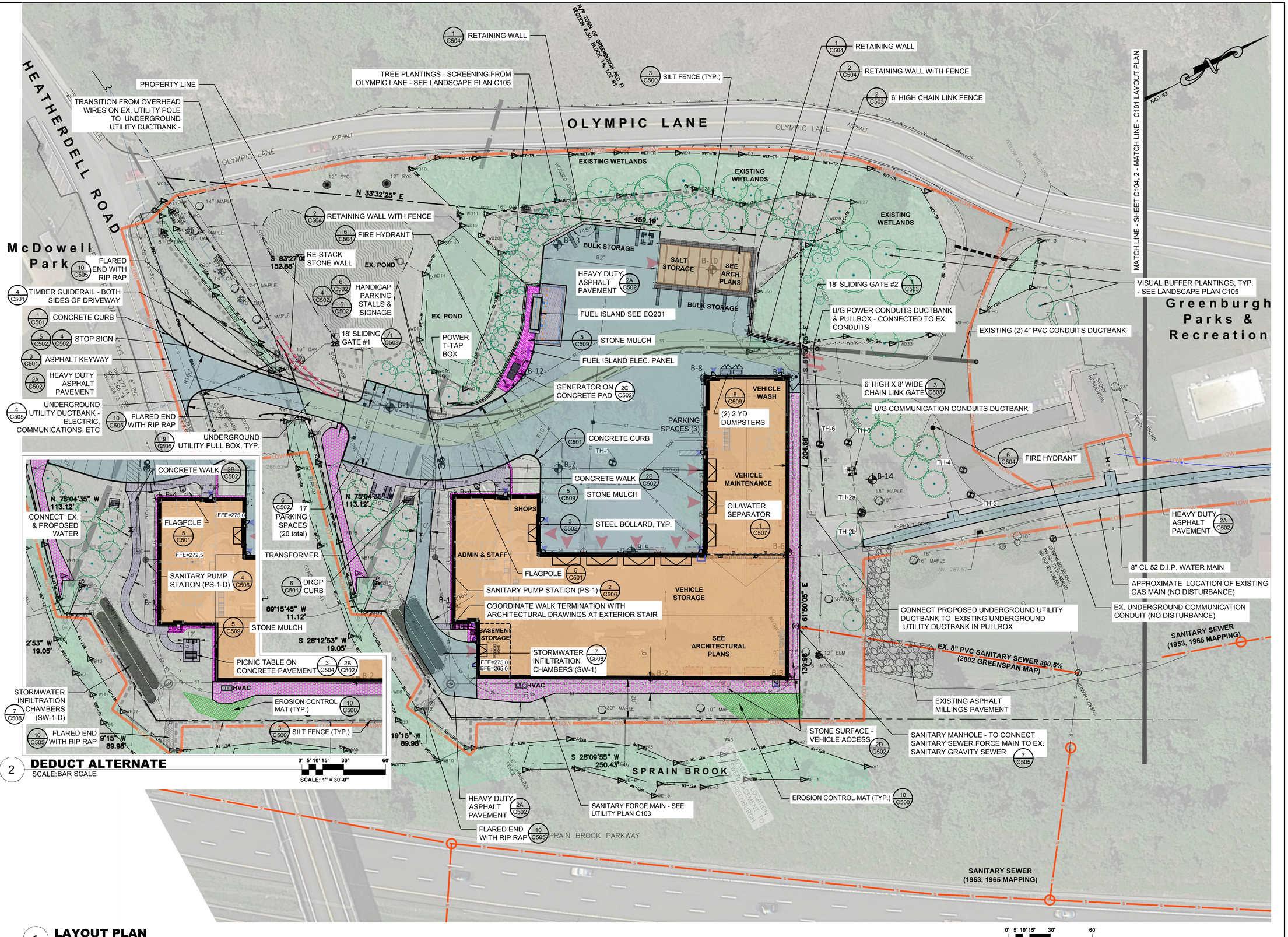

2 DEDUCT ALTERNATE
SCALE:BAR SCALE

0' 5' 10' 15' 30' 60'
SCALE: 1" = 30'-0"

1 LAYOUT PLAN
SCALE:BAR SCALE

0' 5' 10' 15' 30' 60'
SCALE: 1" = 30'-0"

Unauthorized alteration or addition to this document is a violation of Section 7209. Subdivision 2 of the New York State Education Law.

P:\NY\Ardsley, Village of\Ardsley DPW\CAD\Civil\03-Phase 2 SITEWORK\PAS\C101 LAYOUT PLAN.dwg

Project:

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LAYOUT PLAN

Sheet Number:

C101

NOTES:
1. SEE GENERAL NOTES ON SHEET C000.
2. THE CONTRACTOR SHALL MAINTAIN ALL POINTS OF CONSTRUCTION INGRESS AND EGRESS TO PREVENT TRACKING OR MOVEMENT OF SEDIMENT OR DEBRIS ONTO PUBLIC ROADS.
3. ALL DISTURBED AREAS, IF NOT OTHERWISE TREATED, SHALL BE FINE GRADED, TOPSOILED AND SEEDED WITH AN APPROVED PERENNIAL GRASS MIXTURE.
4. CONTRACTOR SHALL ENSURE POSITIVE DRAINAGE AWAY FROM BUILDING AND AS SHOWN OR IMPLIED.
5. CONTRACTOR SHALL PROVIDE ADDITIONAL MEASURES OF EROSION CONTROL AS SITE CONDITIONS WARRANT.
6. PROTECT ALL EXISTING UTILITIES AND SUBSURFACE IMPROVEMENTS TO REMAIN, UNLESS OTHERWISE DIRECTED.
7. PERFORM TEST EXCAVATION TO VERIFY EXISTING PIPES INVERT, SIZE, MATERIAL, ETC.
8. CONTRACTOR IS RESPONSIBLE FOR TEMPORARY CONVEYANCE OF STORM FLOWS / STORM SYSTEM DISRUPTED DURING CONSTRUCTION PERIOD.
9. COORDINATE WITH GAS SUPPLIER TO DETERMINE EXACT ALIGNMENT, DEPTH, SIZE, MATERIAL, & PROTECT EXISTING GAS SERVICE THROUGH AREA OF NEW CONSTRUCTION, COMPLYING WITH ALL REGULATIONS AND GUIDELINES.
10. TRANSFER BENCHMARK TO AREA(S) OUTSIDE OF WORK BEFORE CONSTRUCTION STARTS.
11. AS NEEDED, ADJUST EXISTING MANHOLE FRAME AND GRATE TO BE FLUSH WITH PROPOSED FINISHED GRADE.

VF TOWN OF GREENBURGH REC FI SECTION 130 BLOCK 14, LOT 61

NAD 83

FINISHED GRADE SLOPES SHALL NOT EXCEED 2% IN ANY DIRECTION WITHIN THE HANDICAP PARKING SPACE & ACCESS AISLE

2 C501 TAPER CURB

FLUSH CURB

TAPER CURB

SIDEWALK : 2% CROSS SLOPE (MAX., TYP.)

FLAG POLE

PAD=272.0

3 **ENLARGEMENT A**
SCALE:BAR SCALE

0' 2' 5' 10' 20' 40'
SCALE: 1" = 20'-0"

PROPERTY LINE

HEATHERDELL ROAD

OLYMPIC LANE

1 C500 STORM INLET PROTECTION (TYP.)

7 C500 CONCRETE WASHOUT AREA (TYP.)

CONSTRUCTION & SILT FENCE (TYP.) 6 C500 3 C500

SILT FENCE (TYP.) 3 C500

PREVIOUS POND CONSTRUCTION

EXISTING WETLANDS

B-1 SALT STORAGE FFE=273.5

FUEL ISLAND

LINEAR LOW POINT IN PAVEMENT, TYP.

B-8 FFE=275.0 VEHICLE WASH

VEHICLE MAINTENANCE

VEHICLE STORAGE FFE=275.0

ENLARGEMENT A FFE=275.0 SHOP

ADMIN & STAFF FFE=272.5

CONCRETE WASHOUT AREA

CONCRETE PAD WITH PLANTER

EXISTING UNDERGROUND UTILITY HANDHOLE, TYP.

EX. UNDERGROUND COMMUNICATION CONDUIT

2 STORY RESIDENTIAL

8" WATER MAIN

MATCH EXISTING (M.E.)

MATCH LINE - SHEET C104, 3 - MATCH LINE - C102 GRADING & EROSION CONTROL PLAN

TH-1 TH-2a TH-2b TH-3 TH-4 TH-5 TH-6

B-2 B-3 B-4 B-5 B-6 B-7 B-8 B-9 B-10 B-11 B-12 B-13 B-14

SANITARY SEWER (2002 GREENSPAN MAP)

SANITARY SEWER (1953, 1965 MAPPING)

APPROXIMATE LOCATION OF EXISTING GAS MAIN (DO NOT DISTURB)

CONSTRUCTION & SILT FENCE (TYP.) 6 C500 3 C500

EROSION CONTROL MATTING / BLANKET (TYP.) 10 C505

FLARED END SECTION WITH RIP RAP (TYP.) 10 C505

EROSION CONTROL MATTING / BLANKET (TYP.) 10 C505

SILT FENCE (TYP.) 3 C500

FLARED END SECTION WITH RIP RAP (TYP.) 10 C505

GENERAL NOTE
PROTECT ALL EXISTING UTILITIES AND SUBSURFACE IMPROVEMENTS UNLESS OTHERWISE DIRECTED.

2 **DEDUCT ALTERNATE**
SCALE:BAR SCALE

0' 5' 10' 15' 30' 60'
SCALE: 1" = 30'-0"

1 **GRADING & UTILITY PLAN**
SCALE:BAR SCALE

0' 5' 10' 15' 30' 60'
SCALE: 1" = 30'-0"

SUGGESTED EROSION CONTROL CONSTRUCTION SCHEDULE:

1. FLAG THE GRADING LIMITS AND MARK A 10' BUFFER AREA BEYOND THE GRADING LIMITS FOR PROTECTION.
2. INSTALL TEMPORARY CONSTRUCTION ENTRANCE AT APPROXIMATE LOCATION OF DRIVEWAY IF DRIVEWAY STONE HAS NOT YET BEEN PLACED.
3. INSTALL PROTECTIVE MEASURES AROUND TREES TO BE RETAINED WITHIN GRADING LIMITS.
4. INSTALL BRIGHTLY COLORED CONSTRUCTION FENCE ALONG ROAD TO LIMIT VEHICULAR ACCESS TO STONE DRIVEWAY OR CONSTRUCTION ACCESS DRIVE.
5. INSTALL INLET PROTECTION DEVICES AT CATCH BASINS DOWN SLOPE FROM THE SITE THAT ARE VULNERABLE TO SEDIMENT ACCUMULATIONS.
6. COMPLETE SITE CLEARING, STOCKPILE SAVED MATERIALS IN DESIGNATED AREAS.
7. INSTALL SILT FENCES IN LOCATIONS AROUND THE PERIMETER OF SITE WORK, STOCKPILE AREA AND ALONG THE CONTOUR OF ALL DISTURBED SLOPES AT A MINIMUM OF EVERY 50' OF HORIZONTAL DISTANCE OR AS SPECIFIED, MEASURED PERPENDICULAR TO THE SLOPE.
8. ROUGH GRADE SWALES AROUND PROPOSED EARTHWORK AND STRUCTURES TO EXTENT POSSIBLE WITHIN GRADING LIMITS, INSTALL SILT FENCES, STRAW BALE DIKES, DIVERSION SWALES AND OTHER EROSION CONTROL MEASURES AS SHOWN ON PLANS, AND AS NECESSARY TO COMPLY WITH THE SWPPP AND ENSURE WATER QUALITY OF RUNOFF.
9. CONTRACTOR MUST ROUTINELY INSPECT AND MAINTAIN EROSION CONTROL DEVICES AND BEST MANAGEMENT PRACTICES (BMP'S). DOCUMENT WEEKLY INSPECTIONS IN SEPARATE CONTRACTOR'S LOG.
10. ROUTE ALL DEWATERING AND SUMP PUMP OUTFALLS OF TURBID QUALITY DIRECTLY TO SEDIMENT BASINS OR OTHER APPROPRIATE BMP.
11. THE CONTRACTOR SHALL INITIATE STABILIZATION OF ANY BARE SOIL AREAS, AS SOON AS POSSIBLE, BUT IN NO CASE MORE THAN 14 DAYS AFTER INITIAL DISTURBANCE OF THE RESPECTIVE AREAS OF THE SITE. THE CONTRACTOR SHALL RETAIN SITE RECORDS OF THE EARTHWORK AND STABILIZATION WORK PERFORMED. EXCEPTIONS OF THIS POLICY CAN BE GRANTED UNDER NORMAL CONDITIONS IN THE FOLLOWING INSTANCES:
   A. WHERE THE INITIATION OF STABILIZATION MEASURES BY THE 14TH DAY AFTER CONSTRUCTION ACTIVITY TEMPORARILY OR PERMANENTLY CEASED IN PRECLUDED BY SNOW COVER OR FROZEN GROUND CONDITIONS, STABILIZATION MEASURES SHALL BE INITIATED AS SOON AS PRACTICABLE.
   B. WHERE CONSTRUCTION ACTIVITY ON A PORTION OF THE SITE IS TEMPORARILY CEASED, AND EARTH-DISTURBING ACTIVITIES WILL BE RESUMED WITHIN TWENTY-ONE (21) DAYS, TEMPORARY STABILIZATION MEASURES NEED NOT BE INITIATED ON THE PORTION OF THE SITE IF REQUESTED IN WRITING AND APPROVED BY THE ENGINEER.
12. ALL EROSION CONTROL MEASURES SHALL REMAIN IN PLACE UNTIL FINAL STABILIZATION IS ATTAINED. REMOVE OF ANY EROSION CONTROL MEASURES MUST FIRST BE APPROVED BY THE ENGINEER AND/OR THE JURISDICTION HAVING AUTHORITY.
13. WHEN WEATHER CONDITIONS PROHIBIT SEED GERMINATION, DISTURBED GROUND SHOULD BE MULCHED WITH STRAW OR FIBER MULCH AND RECEIVE A BINDER/TACK APPLICATION OR EQUIVALENT.
14. THE SCHEDULE DESCRIPTIONS ABOVE ARE SUGGESTIONS PROVIDED TO ASSIST THE CONTRACTOR(S) IN DEVELOPING THEIR STORM WATER POLLUTION PREVENTION PLAN (SWPPP) SCHEDULE SPECIFIC TO THIS PROJECT. THE ACTUAL SCHEDULING AND IMPLEMENTATION OF THE SWPPP AND MAINTENANCE OF REQUIRED WATER QUALITY IS THE RESPONSIBILITY OF THE CONTRACTOR(S). THE EROSION AND SEDIMENT CONTROL PLAN AND DEVICES SHOWN ARE CONSIDERED TO COMPRISE THE MAJORITY OF EFFORTS NEEDED, BUT NOT NECESSARILY ALL THAT WILL BE REQUIRED. WEATHER, SITE, AND UNFORESEEN CONDITIONS CAN DICTATE THAT GREATER EFFORTS WILL BE NECESSARY.

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RHINEBECK ARCHITECTURE

Seal:
STATE OF NEW YORK — JEFFERY FRASER SCHOCK — 090480 — LICENSED PROFESSIONAL ENGINEER

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GRADING & EROSION CONTROL PLAN

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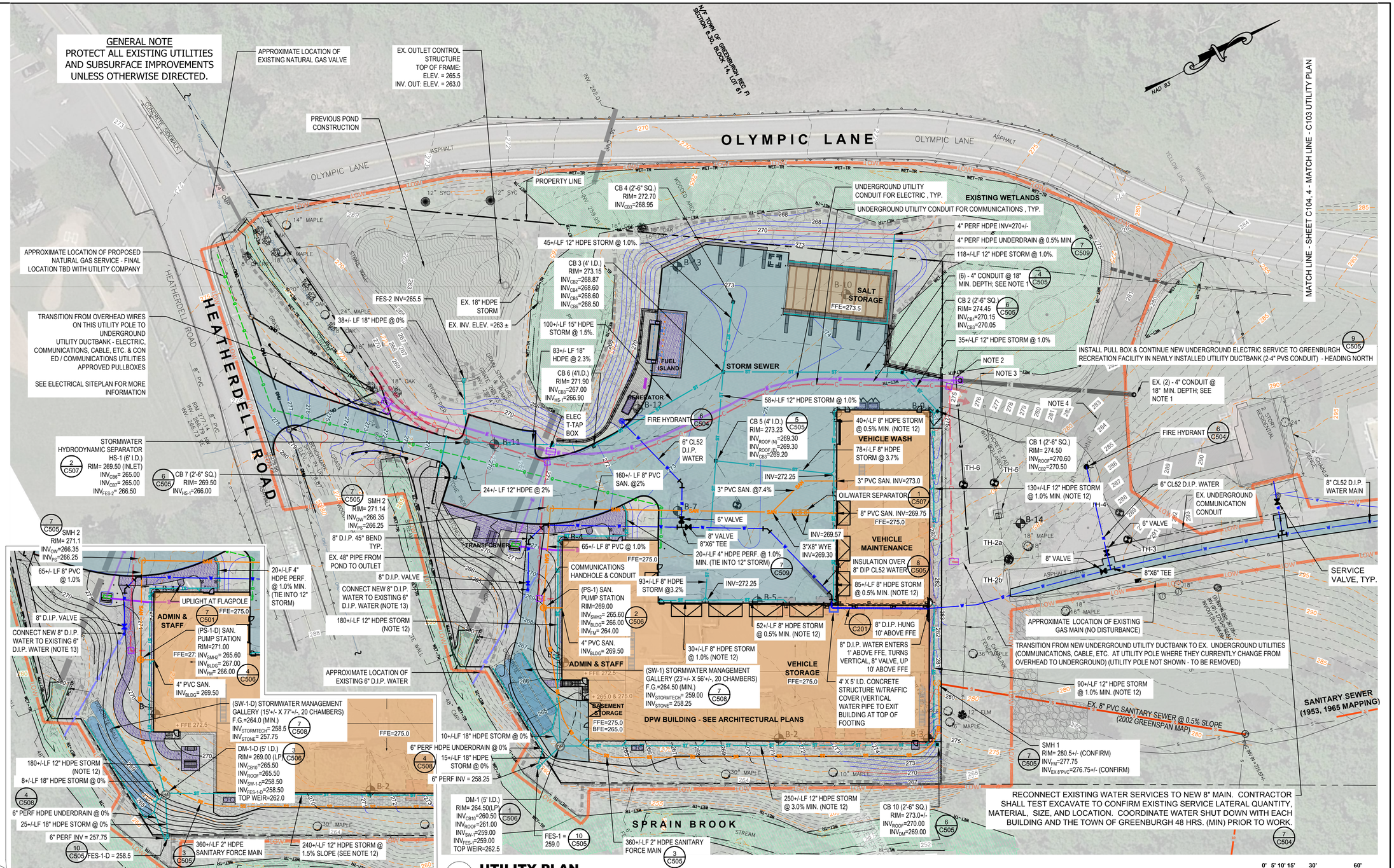
C102



NOTES:

1. 4" CONDUIT SHALL BE HDPE WITH 8–FT OF RIGID AT PULL BOXES, MEETING CON ED STANDARDS.
2. EXISTING UNDERGROUND ELECTRIC LINE IS ASSUMED TO CONTINUE FROM THIS POINT, SWEEPING NORTHWARD UNTIL IT REACHES THE EXISTING ELECTRIC TRANSFORMER ON LANDS OF THE TOWN OF GREENBURGH. EXERCISE CAUTION WITH ALL EXCAVATION.
3. EXISTING UNDERGROUND NATURAL GAS LINE IS ASSUMED TO CONTINUE FROM THIS POINT, SWEEPING SOUTHWARD TO THE EXISTING VALVE, VISIBLE IN THE EXISTING ROADWAY AT THE INTERSECTION OF OLYMPIC LANE AND HEATHERDELL ROAD. EXERCISE CAUTION WITH ALL EXCAVATION.
4. AN UNKNOWN UNDERGROUND UTILITY WAS FOUND IN THIS LOCATION BY SOFTDIG UTILITY LOCATORS.
5. TEST EXCAVATION HOLES, LABELED "TH–1" THROUGH "TH–6" ARE VACUUM EXCAVATION LOCATIONS BY SOFTDIG. SEE DATA SHEETS FOR INFORMATION.
6. SOIL BORINGS LABELED "B–1" THROUGH "B–13" ARE SOIL BORE LOCATIONS BY TERRACON. SEE SOIL BORING LOGS.
7. EXISTING SURVEY PREPARED BY TECTONIC ENGINEERING AND SURVEYING CONSULTANTS. PC. COMPLETED ON 3/16/2020. MAP ENTITLED "BOUNDARY AND TOPOGRAPHIC SURVEY, VILLAGE OF ARDSLEY, 220 HEATHERDELL ROAD, VILLAGE OF ARDSLEY, WESTCHESTER COUNTY, N.Y."
8. WETLAND MAPPING PREPARED BY TECTONIC ENGINEERING AND SURVEYING CONSULTANTS, PC, INCLUDED ON MAPPING IDENTIFIED IN NOTE #1.
9. EXISTING UNDERGROUND UTILITY INFORMATION PROVIDED BY THE TOWN OF GREENBURGH FROM VARIOUS MAPS, RECORDING APPROXIMATE LOCATIONS OF WATER AND SEWER LINES. MAPS DATED 1943, 1953, 1965, AND 2002. (NOT FROM SURVEY)
10. LIMITED UNDERGROUND UTILITIES WERE MAPPED BY SOFTDIG UNDERGROUND SERVICES, INC., QUALITY LEVEL B WORK, DATED 2/1/2021. VACUUM EXCAVATION DATA PROVIDED ON 3/16/2021.
11. GEOTECHNICAL REPORT BY TERRACON CONSULTANTS – NY, INC, DBA DENTE GROUP, ALBANY, NY, DATED OCTOBER 2, 2020.
12. TIE ROOF DRAINS INTO THIS STORMWATER CONVEYANCE PIPING WITH APPROPRIATELY SIZED WYE CONNECTIONS, TYP.
13. CONTRACTOR SHALL PERFORM TEST DIGS TO VERIFY THE EXISTING WATER PIPE LOCATION, MATERIAL, AND ELEVATION. CUT AND CAP EXISTING 6" DIP WATER AND REMOVE PORTION NOT BEING USED. USE APPROPRIATE FITTINGS, REDUCER, BENDS, ETC, TO CONNECT NEW 8" DIP TO EX. 6" DIP.
14. SEE GENERAL NOTES ON SHEET C000.
15. THE CONTRACTOR SHALL MAINTAIN ALL POINTS OF CONSTRUCTION INGRESS AND EGRESS TO PREVENT TRACKING OR MOVEMENT OF SEDIMENT OR DEBRIS ONTO PUBLIC ROADS.
16. ALL DISTURBED AREAS, IF NOT OTHERWISE TREATED, SHALL BE FINE GRADED, TOPSOILED AND SEEDED WITH AN APPROVED PERENNIAL GRASS MIXTURE.
17. CONTRACTOR SHALL ENSURE POSITIVE DRAINAGE AWAY FROM BUILDING AND AS SHOWN OR IMPLIED.
18. CONTRACTOR SHALL PROVIDE ADDITIONAL MEASURES OF EROSION CONTROL AS SITE CONDITIONS WARRANT.
19. PROTECT ALL EXISTING UTILITIES AND SUBSURFACE IMPROVEMENTS TO REMAIN, UNLESS OTHERWISE DIRECTED.
20. PERFORM TEST EXCAVATION TO VERIFY EXISTING PIPE INVERT, SIZE, MATERIAL, ETC.
21. CONTRACTOR IS RESPONSIBLE FOR TEMPORARY CONVEYANCE OF STORM FLOWS / STORM SYSTEM DISRUPTED DURING CONSTRUCTION PERIOD.
22. COORDINATE WITH GAS SUPPLIER TO DETERMINE EXACT ALIGNMENT, DEPTH, ETC... & PROTECT EXISTING GAS SERVICE THROUGH AREA OF NEW CONSTRUCTION, COMPLYING WITH ALL REGULATIONS AND GUIDELINES.

Project:

VILLAGE OF ARDSLEY, NY

NEW PUBLIC WORKS FACILITY

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RHINEBECK ARCHITECTURE

Seal:

STATE OF NEW YORK JEFFERY FRASER SCHOLL 090480 LICENSED PROFESSIONAL ENGINEER

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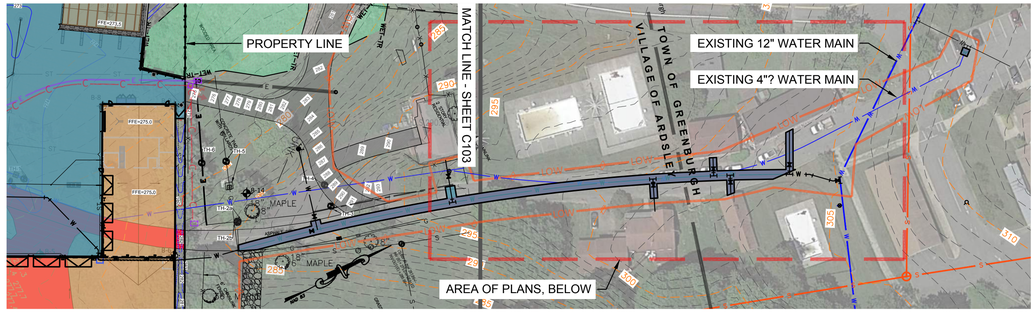
Reviewed By: JFB
Approved By: -
W&S Project No: 2180508

Drawing Title:

UTILITY PLAN

Sheet Number:

C103

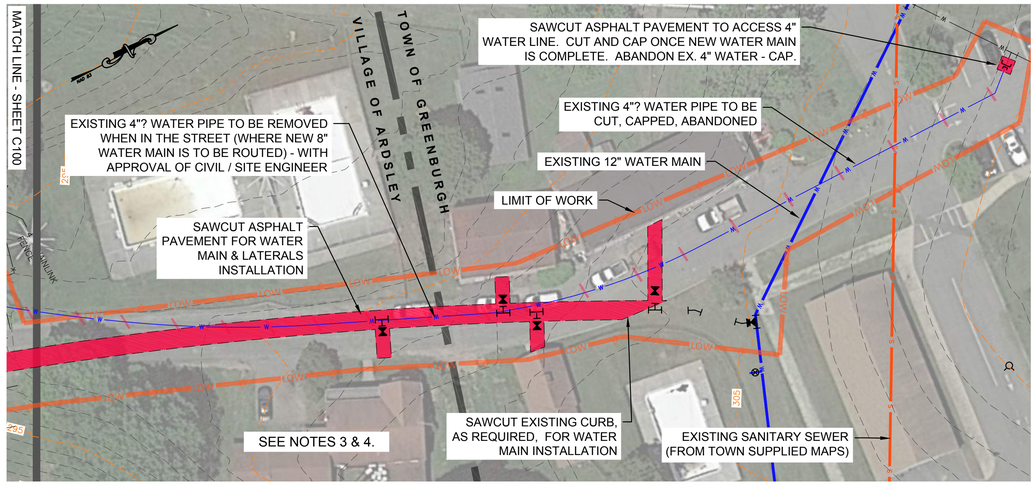


A **KEY PLAN - THIS SHEET**
SCALE: 1" = 60'

0' 10' 20' 30' 60' 120'
SCALE: 1" = 60'-0"

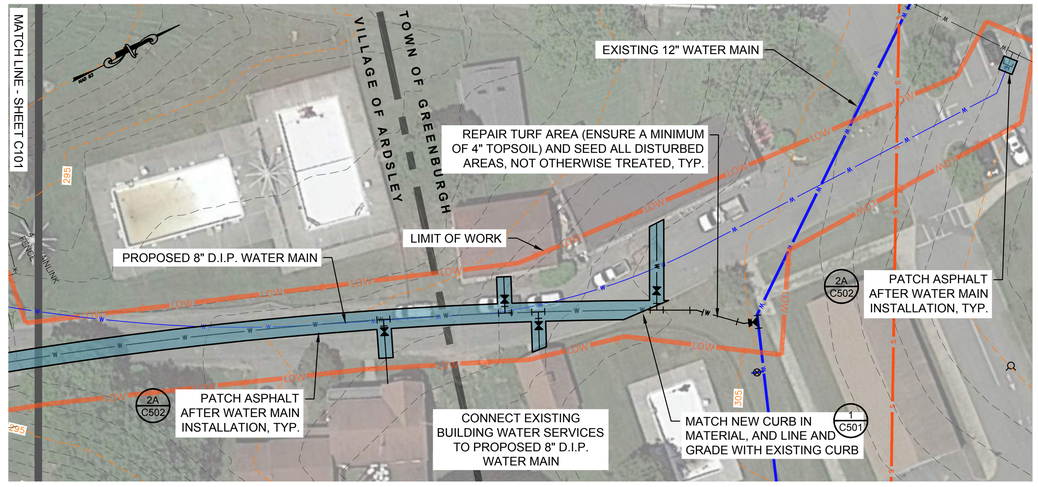
NOTES:

1. THIS SHEET INCLUDES A CONTINUATION OF WORK BEYOND THE LIMITS OF THE PROPOSED DPW SITE. CONTRACTOR SHALL ADHERE TO / APPLY NOTES FROM ALL PLAN SHEETS IN THIS SITE (C000-C103).
2. SEE UTILITY NOTES - SHEET C103.
3. SEE NOTE 12, SHEET C100. CONTRACTOR SHALL PERFORM TEST DIGS TO IDENTIFY EXISTING SERVICE LATERALS FOR RECONNECTION TO THE PROPOSED 8" WATER MAIN.
4. REMOVE (OR ABANDON) THE EXISTING WATER MAIN THAT SERVES THE EXISTING BUILDINGS SHOWN ON THIS SHEET. CONSULT THE PROJECT CIVIL ENGINEER FOR DIRECTION.



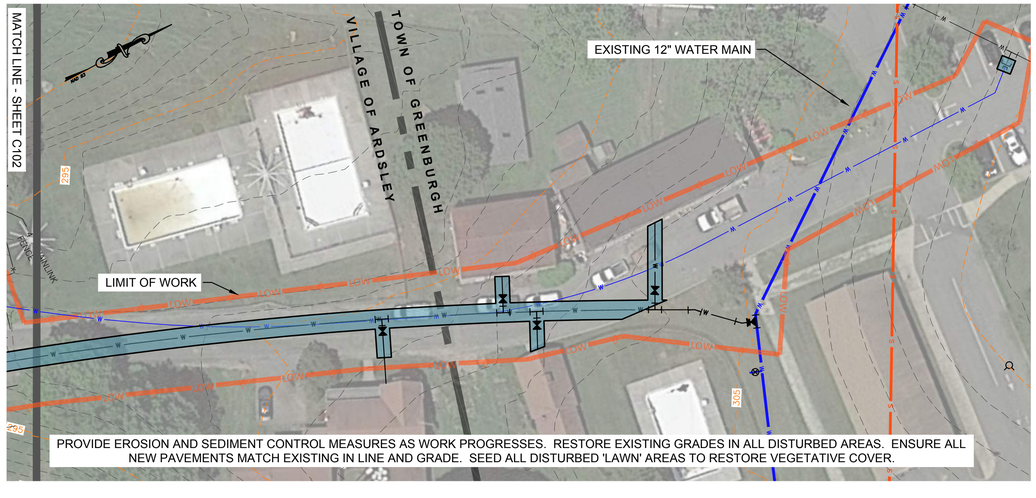
1 **MATCH LINE - C100 EXISTING CONDITIONS & DEMOLITION PLAN**
SCALE: 1" = 30'

0' 5' 10' 15' 30' 60'
SCALE: 1" = 30'-0"



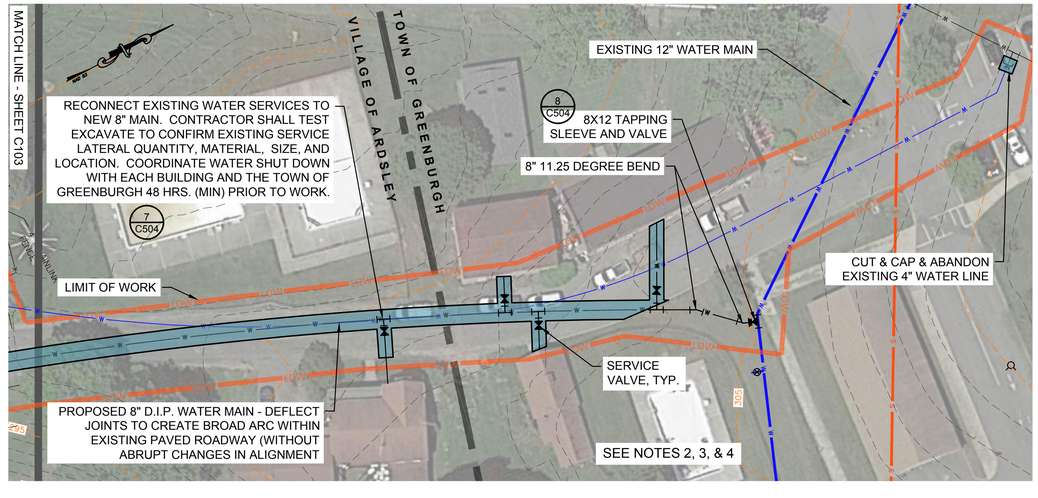
2 **MATCH LINE - C101 LAYOUT PLAN**
SCALE: 1" = 30'

0' 5' 10' 15' 30' 60'
SCALE: 1" = 30'-0"



3 **MATCH LINE - C102 GRADING & EROSION CONTROL PLAN**
SCALE: 1" = 30'

0' 5' 10' 15' 30' 60'
SCALE: 1" = 30'-0"



4 **MATCH LINE - C103 UTILITY PLAN**
SCALE: 1" = 30'

0' 5' 10' 15' 30' 60'
SCALE: 1" = 30'-0"

Project:
VILLAGE OF ARDSLEY, NY
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RHINEBECK ARCHITECTURE

Seal:
STATE OF NEW YORK — JEFFERY FRASER HORNE — 087480 — LICENSED PROFESSIONAL ENGINEER

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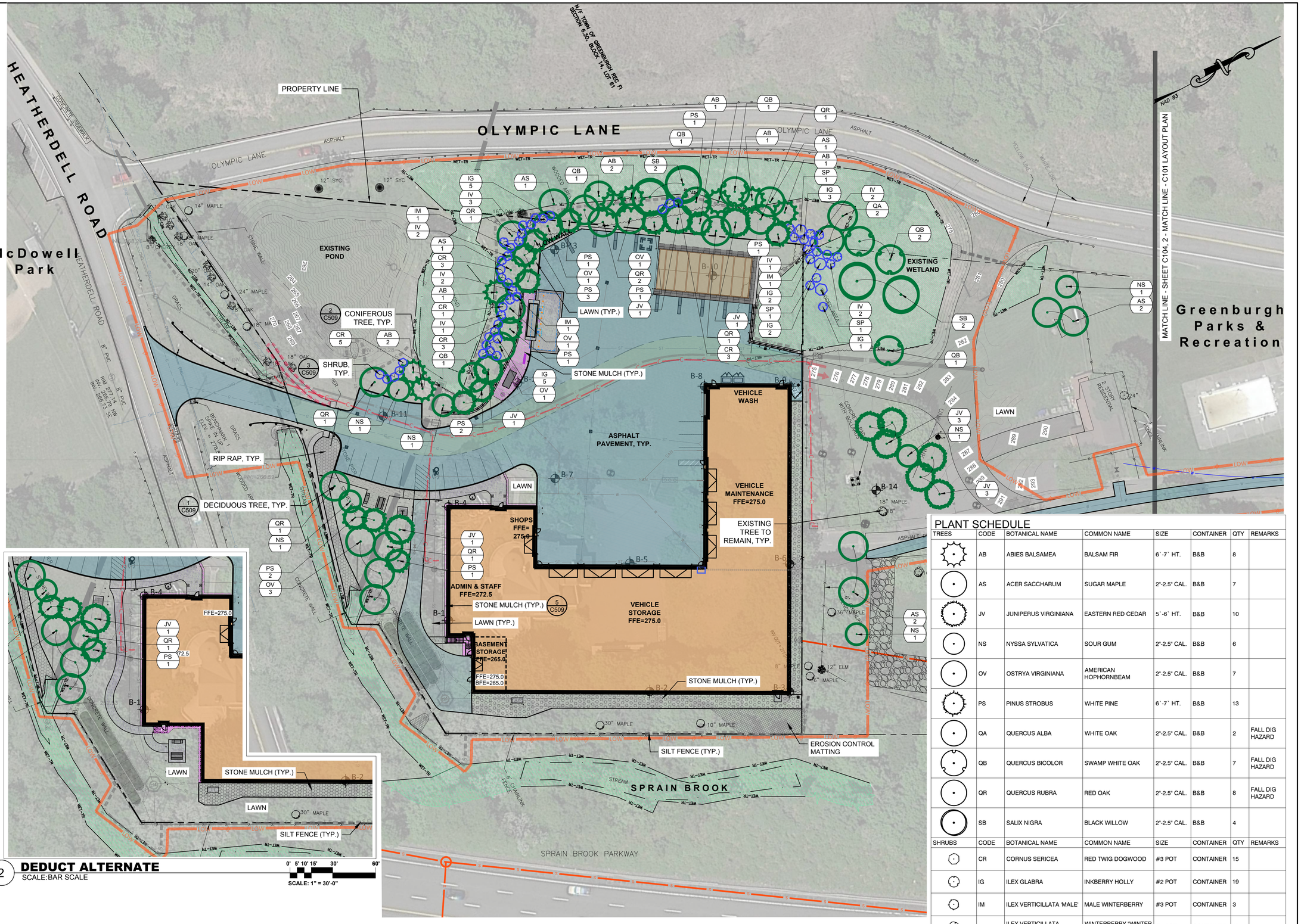
Approved By:	-
W&S Project No:	2180508

Drawing Title:
WATER SERVICE TIE-IN PLANS

Sheet Number:
C104



2 DEDUCT ALTERNATE
SCALE:BAR SCALE

0' 5' 10' 15' 30' 60'
SCALE: 1" = 30'-0"

1 LAYOUT PLAN
SCALE:BAR SCALE

0' 5' 10' 15' 30' 60'
SCALE: 1" = 30'-0"

PLANT SCHEDULE

TREES	CODE	BOTANICAL NAME	COMMON NAME	SIZE	CONTAINER	QTY	REMARKS
	AB	ABIES BALSAMEA	BALSAM FIR	6`-7` HT.	B&B	8	
	AS	ACER SACCHARUM	SUGAR MAPLE	2"-2.5" CAL.	B&B	7	
	JV	JUNIPERUS VIRGINIANA	EASTERN RED CEDAR	5`-6` HT.	B&B	10	
	NS	NYSSA SYLVATICA	SOUR GUM	2"-2.5" CAL.	B&B	6	
	OV	OSTRYA VIRGINIANA	AMERICAN HOPHORNBEAM	2"-2.5" CAL.	B&B	7	
	PS	PINUS STROBUS	WHITE PINE	6`-7` HT.	B&B	13	
	QA	QUERCUS ALBA	WHITE OAK	2"-2.5" CAL.	B&B	2	FALL DIG HAZARD
	QB	QUERCUS BICOLOR	SWAMP WHITE OAK	2"-2.5" CAL.	B&B	7	FALL DIG HAZARD
	QR	QUERCUS RUBRA	RED OAK	2"-2.5" CAL.	B&B	8	FALL DIG HAZARD
	SB	SALIX NIGRA	BLACK WILLOW	2"-2.5" CAL.	B&B	4	
SHRUBS	**CODE**	**BOTANICAL NAME**	**COMMON NAME**	**SIZE**	**CONTAINER**	**QTY**	**REMARKS**
	CR	CORNUS SERICEA	RED TWIG DOGWOOD	#3 POT	CONTAINER	15	
	IG	ILEX GLABRA	INKBERRY HOLLY	#2 POT	CONTAINER	19	
	IM	ILEX VERTICILLATA 'MALE'	MALE WINTERBERRY	#3 POT	CONTAINER	3	
	IV	ILEX VERTICILLATA "WINTER RED"	WINTERBERRY "WINTER RED"	#3 POT	CONTAINER	13	
	SP	SALIX DISCOLOR	PUSSY WILLOW	#2 POT	CONTAINER	3	

P:\NY\Ardsley, Village of\Ardsley DPW\CAD\Civil\03--Phase 2 SITEWORK\PAS\C105 LANDSCAPE PLAN.dwg

Project:

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RHINEBECK ARCHITECTURE

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STATE OF NEW YORK JEFFERY FRASER SCHOOL ENGINEER 083485 PROFESSIONAL ENGINEER

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LANDSCAPE PLAN

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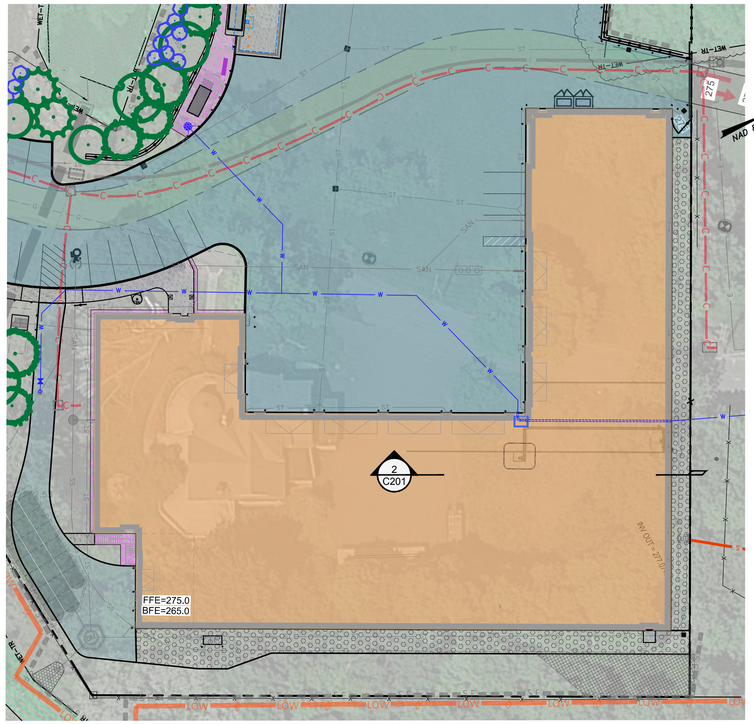
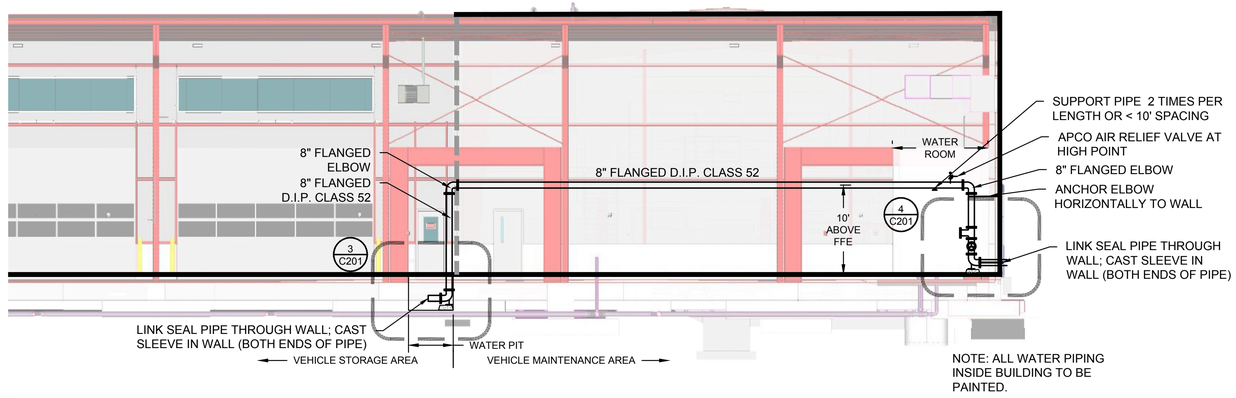
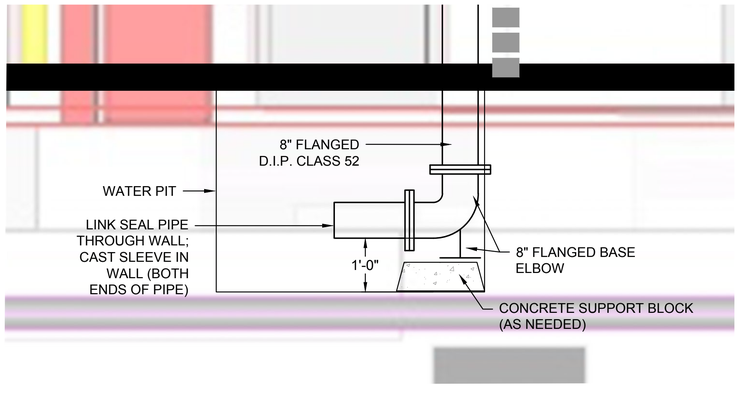


1 **KEY PLAN**
SCALE:BAR SCALE

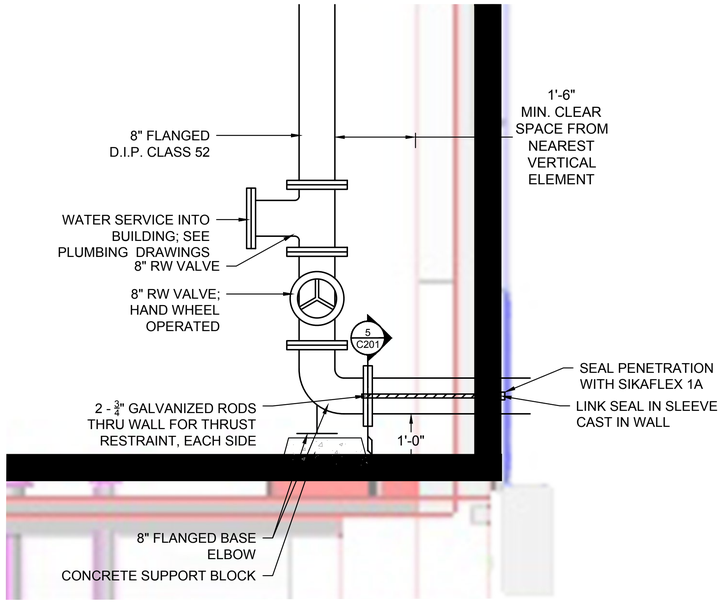
0' 5' 10' 15' 30' 60'
SCALE: 1" = 30'-0"



2 **SECTION A**
SCALE:1/8" = 1'-0"



4 **WATER PIT ENLARGEMENT**
SCALE: 1/2" = 1'-0"



4 **WATER SERVICE INTO BUILDING ENLARGEMENT**
SCALE: 1/2" = 1'-0"

5 **SECTION B**
SCALE: 1/2" = 1'-0"

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RHINEBECK ARCHITECTURE

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Drawing Title:

WATER MAIN ROUTING IN BUILDING

Sheet Number:

C201

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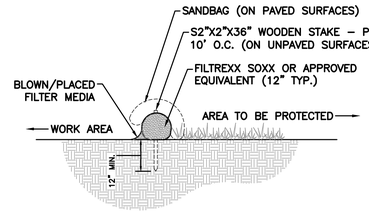
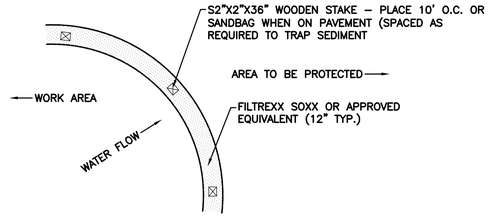


SECTION



PLAN

NOTES:

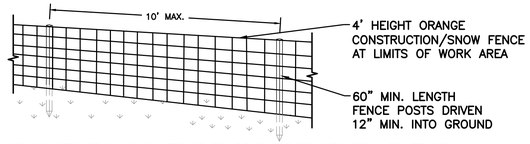
1. ALL MATERIALS TO MEET SPECIFICATIONS.
2. FILTER MEDIA FILL TO MEET APPLICATION REQUIREMENTS.
3. COMPOST MATERIAL TO BE DISPERSED ON SITE, AS DETERMINED BY LANDSCAPE ARCHITECT.

1 STORM INLET PROTECTION
SCALE:N.T.S.

NOTES:

1. SILT FENCE FABRIC SHALL BE FIRMLY ATTACHED TO POSTS USING WIRE TIES OR STAPLES.
2. EMBED FILTER CLOTH A MINIMUM OF 6" BELOW FINISHED GRADE.
3. WHEN TWO SECTIONS OF FILTER CLOTH ADJOIN EACH OTHER THEY SHALL BE OVERLAPPED A MINIMUM OF SIX INCHES AND FOLDED.
4. MAINTENANCE SHALL BE PERFORMED IN ACCORDANCE WITH THE "GENERAL MAINTENANCE PLAN" OR WHEN BULGES OF MATERIAL DEVELOP IN FENCES.

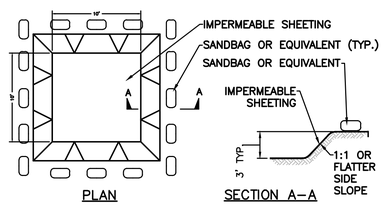
3 SILT FENCE
SCALE:N.T.S.



NOTES:

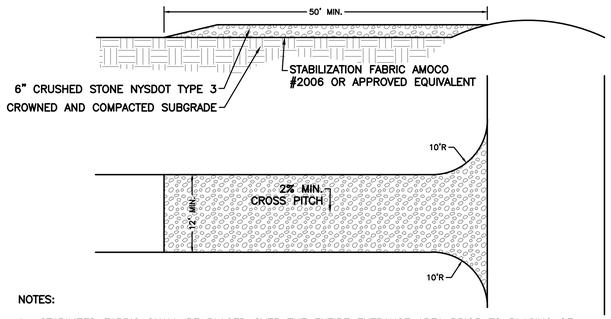
1. ORANGE CONSTRUCTION/SNOW FENCE TO BE FASTENED SECURELY TO FENCE POSTS WITH WIRE TIES OR STAPLES. POSTS SHALL BE 2"X2" HARDWOOD.
2. WHEN TWO SECTIONS OF ORANGE CONSTRUCTION/SNOW FENCE ADJOIN EACH OTHER, THEY SHALL BE OVERLAPPED BY 12" OR SECURED.

6 CONSTRUCTION FENCE
SCALE:N.T.S.



PLAN SECTION A–A

7 CONCRETE WASHOUT AREA
SCALE:N.T.S.



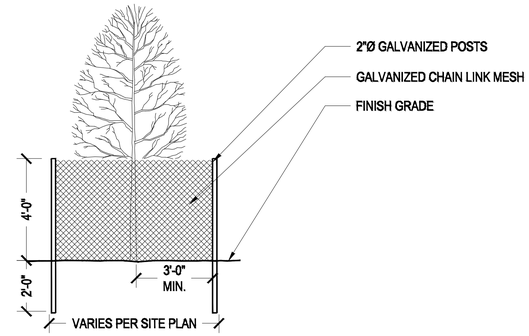
NOTES:

1. STABILIZED FABRIC SHALL BE PLACED OVER THE ENTIRE ENTRANCE AREA PRIOR TO PLACING OF STONE. OVERLAP FABRIC PER MANUFACTURER'S SPECIFICATIONS.
2. ALL SURFACE WATER FLOWING OF DIVERTED TOWARDS THE CONSTRUCTION ENTRANCE SHALL BE PIPED BENEATH THE ENTRANCE ROAD.
3. WHEN EQUIPMENT WASHING IS REQUIRED IT SHALL BE DONE ON A SEPARATE AREA ADJACENT TO THE ENTRANCE ROAD AND STABILIZED WITH STONE. EQUIPMENT WASHING WILL BE REQUIRED IF ROAD RECEIVES SIGNIFICANT SOILS OR DEBRIS ACCORDING TO JUDGMENT BY OWNER OR OWNER'S REPRESENTATIVE.
4. KEEP ROADS CLEAR OF STONES, MUD, AND OTHER CONSTRUCTION DEBRIS. CLEAN PAVEMENT AS ACCUMULATIONS WARRANT AND AS ORDERED BY ENGINEER.
5. REMOVE SILT ACCUMULATIONS ROUTINELY AND DISPOSE OF PROPERTLY SUCH THAT WATER QUALITY IS NOT IMPAIRED. DO NOT INTRODUCE SILT INTO DRAINAGE SUSTEM OR TOPSOIL/RESTORATION AREAS.

2 STABILIZED CONSTRUCTION ENTRANCE
SCALE:N.T.S.

NOTES:

1. OUTSIDE EDGE OF GUARD SHOULD BE PLACED AT DRIPLINE OR AS INDICATED ON DEMOLITION PLAN. GUARDS MAY BE PLACED AROUND SINGLE TREES OR GROUPS OF TREES AS SHOWN ON PLAN.



4 TREE PROTECTION
SCALE:N.T.S.

PROTECTION OF TREES:

PROTECT EXISTING TREES WHICH ARE TO REMAIN AND WHICH MAY BE INJURED, BRUISED, DEFACED, OR OTHERWISE DAMAGED BY CONSTRUCTION OPERATIONS, UTILIZING STANDARD TREE PROTECTION CRITERIA INCLUDING:

1. INSTALLATION OF SAFETY ORANGE PLASTIC FENCING (MINIMUM4' IN HEIGHT) AROUND INDIVIDUAL TREES DESIGNATED FOR PROTECTION. FENCING SHALL BE INSTALLED AT THE OUTWARD LIMIT OF THE TREE'S DRIPLINE OR EXTENT OF CANOPY COVER.
2. INSTALLATION OF SAFETY ORANGE PLASTIC FENCING (MINIMUM 4' IN HEIGHT) AROUND GROUPS OF TREES DESIGNATED FOR PROTECTION.
3. TREE AND/OR SHRUB BRANCHES IN THE WAY OF EQUIPMENT SHALL BE TRIMMED ACCORDING TO PROFESSIONAL HORTICULTURAL STANDARDS. UNDER NO CIRCUMSTANCES SHALL THE CONTRACTOR AND SUB–CONTRACTORS USE EQUIPMENT TO DEMOLISH BRANCHES AS WORK PROCEEDS.

REQUIRED FENCING SHALL BE INSTALLED PRIOR TO THE INITIATION OF LAND DISTURBING ACTIVITIES AND SHALL BE REMOVED AT THE CONCLUSION OF CONSTRUCTION. REMOVE DISPLACED ROCKS FROM UNCLEARED AREAS. BY APPROVED EXCAVATION, REMOVE TREES WITH 30 PERCENT OR MORE OF THEIR ROOT SYSTEMS DESTROYED. REMOVAL OF TREES AND THE PROCEDURE FOR REMOVAL REQUIRES APPROVAL OF THE OWNER OR LANDSCAPE ARCHITECT. TREES DESIGNATED FOR REMOVAL SHALL BE REMOVED IN A MANNER THAT WILL NOT IMPACT ADJACENT TREES.

LANDSCAPE REPLACEMENT:

REMOVE TREES AND OTHER LANDSCAPE FEATURES SCARRED OR DAMAGED BY EQUIPMENT OPERATIONS, AND REPLACE WITH EQUIVALENT, UNDAMAGED TREES AND LANDSCAPE FEATURES. OBTAIN OWNER'S OR LANDSCAPE ARCHITECT'S APPROVAL BEFORE REPLACEMENT. REPLACEMENT OF TREES SHALL OCCUR ON A ONE–TO–ONE BASIS, UNLESS OTHERWISE NOTED.

8 PROTECTION AND REPLACEMENT OF TREES
SCALE:N.T.S.

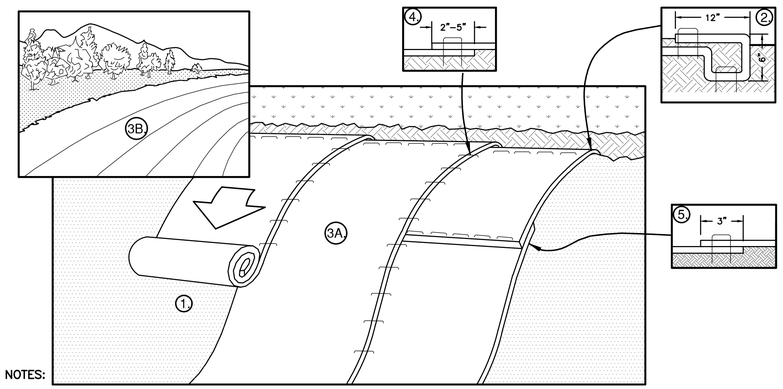
GENERAL MAINTENANCE PLAN:

1. ALL EROSION AND SEDIMENT CONTROL PRACTICES WILL BE CHECKED FOR STABILITY AND OPERATION FOLLOWING EVERY RUNOFF PRODUCING RAINFALL, BUT IN NO CASE LESS THAN ONCE EVERY WEEK, IN ACCORDANCE WITH THE SWPPP AND NYSDEC SPDES GENERAL PERMIT NO. GP–0–15–002. ANY NEEDED REPAIRS WILL BE MADE IMMEDIATELY TO MAINTAIN ALL PRACTICES AS DESIGNED.
2. SEDIMENT WILL BE REMOVED FROM BEHIND STRAW BALE DIKES AND BEHIND SILT FENCES WHEN IT BECOMES 6" DEEP AT THE DIKE/FENCE OR WHEN ACCUMULATIONS HAVE ADVERSELY AFFECTED IT'S FUNCTION. STRAW BALE DIKES AND SITE FENCES WILL BE REPAIRED BY REMOVING SILT AND SEDIMENTS AND THEN TAMPING LOOSE SOIL ALONG BASE, REPLACING DAMAGED OR WEAKENED POSTS AND STAKES, OR AS NECESSARY TO MAINTAIN A BARRIER.
3. SEDIMENT WILL BE REMOVED AND FILTER DEVICES CLEANED OR REPLACED AT CATCH BASINS WHEN THE SEDIMENT POOL NO LONGER DRAINS FREELY. SEDIMENT ACCUMULATIONS WITHIN DRAINAGE STRUCTURES AND PIPING SHALL BE CLEANED OUT AT THE PROJECT COMPLETION AND AS ORDERED BY ENGINEER WHEN DETERMINED THAT PRE–COMPLETION INSTALLATIONS NO LONGER FUNCTION PROPERLY DUE TO SEDIMENT OR DEBRIS. EVENTUAL SYSTEM CLEANING IS NOT AN EXCUSE TO NOT IMPLEMENT APPROPRIATE CONTROLS UPSTREAM. THE ENGINEER SHALL BE THE FINAL JUDGE REGARDING WHETHER THE PIPING SYSTEM REQUIRES CLEANING. THE CONTRACTOR CAN MINIMIZE THE NECESSITY OF EXTENSIVE SILT AND SEDIMENT ACCUMULATION REMOVALS BY EFFECTIVE IMPLEMENTATION OF THE SWPPP.
4. ALL DISTURBED AREAS WILL BE FERTILIZED, SEEDED AND MULCHED ACCORDING TO LANDSCAPE RESTORATION SPECIFICATIONS TO MAINTAIN VIGOROUS, DENSE VEGETATION. REPAIR ANY ERODED SLOPES, REAPPLY TOPSOIL, RESEED AND STABILIZE REPAIR AREA AS REQUIRED FOR PERMANENT OR TEMPORARY MEANS. REPAIR SOIL AREAS DAMAGED BY EROSION OR CONSTRUCTION EQUIPMENT.
5. IMMEDIATELY REPAIR ANY DAMAGE CAUSED BY CONSTRUCTION EQUIPMENT, MAINTENANCE OR OTHER ACTIVITY TO ANY EROSION CONTROL MEASURE, OR BEST MANAGEMENT PRACTICE OR DEVICE.
6. THE PRIME CONTRACTOR(S) ARE RESPONSIBLE FOR THE PERFORMANCE AND COMPLIANCE OF THEIR SUB–CONTRACTOR'S ACTIVITIES RELATING TO THE SWPPP. THEY SHALL MAKE FREQUENT INSPECTIONS OF THEIR WORK AND COORDINATE APPROPRIATE INSTALLATION AND MAINTENANCE OF EROSION CONTROL AND WATER QUALITY DEVICES.
7. EMPLOY POLLUTION PREVENTION MEASURES TO CONTROL LITTER, CONSTRUCTION CHEMICALS, SEDIMENT AND CONSTRUCTION DEBRIS INCLUDING, BUT NOT LIMITED, TO THE FOLLOWING: SALVAGE AND REUSE OF MATERIALS, MINIMIZING PACKAGING WASTE, RECYCLING, PROPER DISPOSAL AT FREQUENT INTERVALS IN ACCORDANCE WITH PREVAILING LAWS, ONSITE INSTRUCTION REGARDING APPROPRIATE SEPARATION/HANDLING/RECYCLING, PERIODIC DEBRIS REMOVAL AT DRAINAGE STRUCTURES (GRATES AND SUMPS)/SEDIMENT TRAPS/FOREBAY AND OTHER BMP'S, PROPER MAINTENANCE OF SEDIMENT/EROSION CONTROL SYSTEMS, ROUTINE AND EVENT RELATED INSPECTIONS OF DRAINAGE AND BMP SYSTEMS PER PERMIT REQUIREMENTS, PROVIDE APPROPRIATE SANITARY FACILITIES FOR ONSITE PERSONNEL, PICK UP TRASH AND DEBRIS FREQUENTLY AND USE WATER MIST, CALCIUM CHLORIDE OR OTHER LEGAL MEANS TO LIMIT THE SPREAD OF DUST AND SOIL PARTICLES.

5 GENERAL MAINTENANCE NOTES
SCALE:N.T.S.

SWPPP
(STORMWATER POLLUTION PREVENTION PLAN)

- ☑ **HAS BEEN DETERMINED TO BE REQUIRED BASED ON SCOPE OF PROJECT. SWPPP REQUIRES DOCUMENTS FROM CONSTRUCTION TEAM.**
- ☐ **HAS BEEN DETERMINED NOT TO BE REQUIRED BASED ON SCOPE OF PROJECT.**
- **REFER TO REQUIREMENTS LISTED ON THIS SHEET AND SPECIFICATION SECTION 01560 ENCLOSED IN THE SWPPP. IF SCOPE OF PROJECT CHANGES, THE REQUIREMENT FOR A SWPPP AND NYSDEC PERMITTING MAY REQUIRE RE-EVALUATION.**



NOTES:

1. PREPARE SOIL BEFORE INSTALLING ROLLED EROSION CONTROL PRODUCTS (RECP'S), INCLUDING ANY NECESSARY APPLICATION OF LIME, FERTILIZER AND SEED. WHEN USING CELL–O–SEED, DO NOT SEED PREPARED AREA. CELL–O–SEED MUST BE INSTALLED WITH PAPER SIDE DOWN.
2. BEGIN AT THE TOP OF THE SLOPE BY ANCHORING THE RECP'S IN A 6" DEEP X 6" WIDE TRENCH WITH APPROXIMATELY 12" OF RECP'S EXTENDED BEYOND THE UP–SLOPE PORTION OF THE TRENCH. ANCHOR THE RECP'S WITH A ROW OF STAPLES/STAKES APPROXIMATELY 12" APART IN THE BOTTOM OF THE TRENCH. BACKFILL AND COMPACT THE TRENCH AFTER STAPLING. APPLY SEED TO COMPACTED SOIL AND FOLD REMAINING 12" PORTION OF RECP'S BACK OVER SEED AND COMPACTED SOIL. SECURE RECP'S OVER COMPACTED SOIL WITH A ROW OF STAPLES/STAKES SPACED APPROXIMATELY 12" APART ACROSS THE WIDTH OF THE RECP'S.
3. ROLL THE RECP'S DOWN (A) OR HORIZONTALLY (B) ACROSS THE SLOPE. RECP'S WILL UNROLL WITH APPROPRIATE SIDE AGAINST THE SOIL SURFACE. ALL RECP'S MUST BE SECURELY FASTENED TO SOIL SURFACE BY PLACING STAPLES/STAKES IN APPROPRIATE LOACTIONS AS SHOWN IN THE STAPLE PATTERN GUIDE. WHEN USING THE DOT SYSTEM, STAPLES/STAKES SHOULD BE PLACED THROUGH EACH OF THE COLORED DOTS CORRESPONDING TO THE APPROPRIATE STAPLE PATTERN.
4. THE EDGES OF PARALLEL RECP'S MUST BE STAPLED WITH APPROXIMATELY 2"–5" OVERLAP DEPENDING ON RECP'S TYPE.
5. CONSECUTIVE RECP'S SPLICED DOWN THE SLOPE MUST BE PLACED END OVER END (SHINGLE STYLE) WITH AN APPROXIMATE 3" OVERLAP. STAPLE THROUGH OVERLAPPED AREA, APPROXIMATELY 12" APART ACROSS THE ENTIRE RECP'S TYPE. IN LOOSE SOIL CONDITIONS, THE USE OF STAPLE STAKES LENGTHS GREATER THAN 6" MAY BE NECESSARY TO PROPERLY SECURE THE RECP'S.

10 EROSION CONTROL MATTING - BLANKET
SCALE:N.T.S.

Project:

VILLAGE OF ARDSLEY, NY

NEW PUBLIC WORKS FACILITY

220 HEATHERDELL ROAD, VILLAGE OF ARDSLEY, NEW YORK 10502

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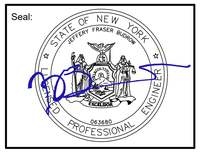
Seal:



Revisions:

Rev	Date	Description

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SCALE: AS NOTED

Date: APRIL 7, 2022
Drawn By: KSK
Reviewed By: JFB
Approved By: -

W&S Project No: 2180508

Drawing Title:

CONSTRUCTION DETAILS

Sheet Number:

C500

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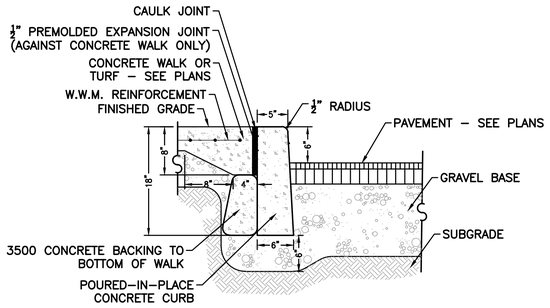
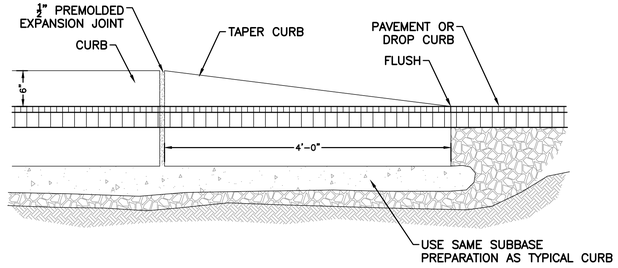
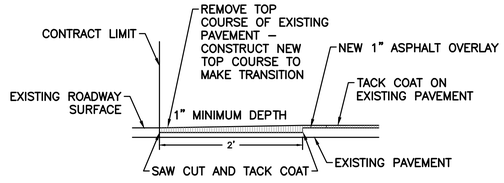


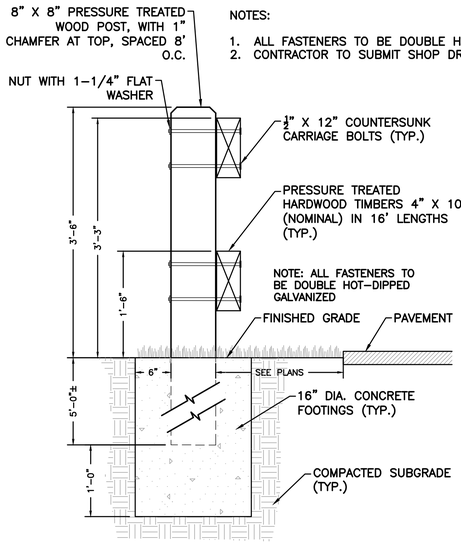
1 CONCRETE CURB
SCALE:N.T.S.



2 TAPERED CURB
SCALE:N.T.S.



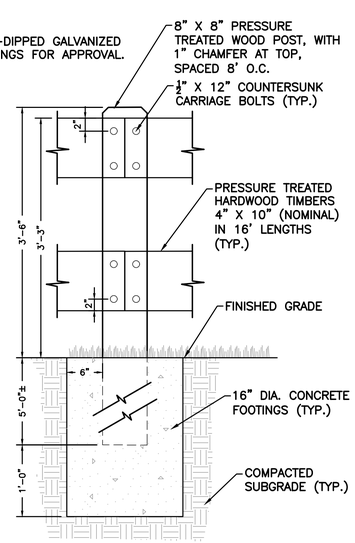
3 ASPHALT KEYWAY
SCALE:N.T.S.



SECTION

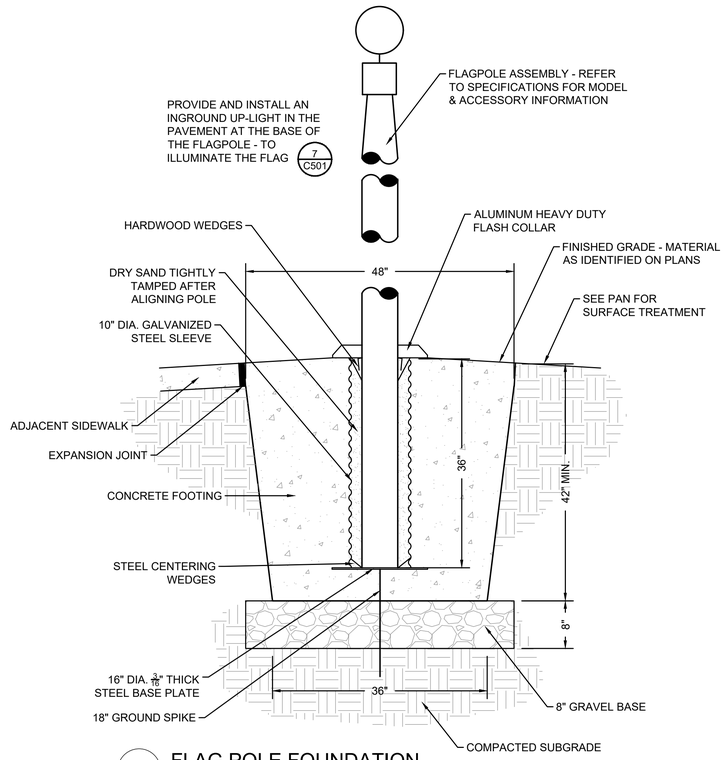
NOTES:

1. ALL FASTENERS TO BE DOUBLE HOT–DIPPED GALVANIZED
2. CONTRACTOR TO SUBMIT SHOP DRAWINGS FOR APPROVAL.

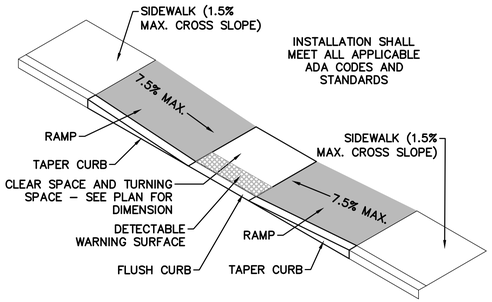


ELEVATION

4 TIMBER GUIDERAIL
SCALE:N.T.S.



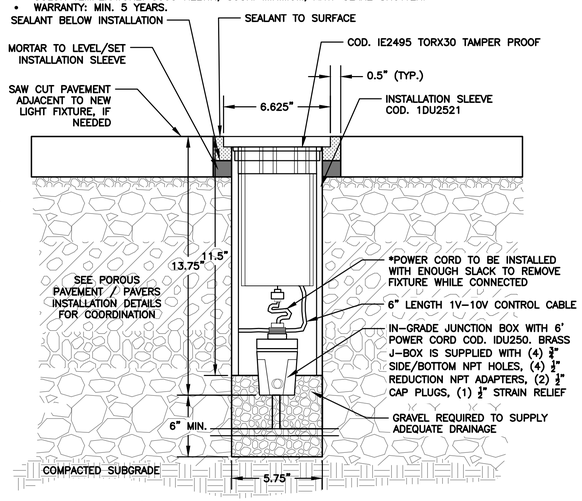
5 FLAG POLE FOUNDATION
SCALE:N.T.S.



6 ADA COMPLIANT DROP CURB
SCALE:N.T.S.

NOTES:

1. INSTALLATION OF GROUND MOUNTED UPLIGHTING SHALL BE IN ACCORDANCE WITH MANUFACTURER'S GUIDELINES FOR H–10 LOADING
2. LIGHT FIXTURE: IN GROUND:
- TARGETTI KEPLERO MINI ZOOM, KPL–M–10–ZM–L2–30, WITH ANTI–GLARE SHUTTER 1E2523, AND ALL OTHER REQUIRED MATERIALS FOR A COMPLETE, OPERATIONAL IN–GROUND INSTALLATION, OR EQUAL.
- IN–GROUND FIXTURES MUST BE INSTALLED IN ACCORDANCE WITH MANUFACTURERS INSTALLATION INSTRUCTIONS FOR DIRECT BURIAL. INSTALLATION SHALL BE VERIFIED BY THE MANUFACTURER'S REPRESENTITIVE PRIOR TO INSTALLATION OF FILL MATERIALS.
- 0–10V DIMMING, 277VAC, LED WITH INTERNAL DRIVER. WATER TIGHT, IP67 RATED WITH WATER TIGHT BRASS JUNCTION BOX AND CONNECTOR CABLE.
- COLOR TEMPERATURE: 3000 KELVIN, 80CRI MINIMUM, ANTI–GLARE SHUTTER.
- WARRANTY: MIN. 5 YEARS.



7 FLAGPOLE INGROUND UP-LIGHT
SCALE:N.T.S.

Project:
VILLAGE OF ARDSLEY, NY
NEW PUBLIC WORKS FACILITY
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Seal:
STATE OF NEW YORK JEFFREY FRASER HUNTER 090480 LICENSED PROFESSIONAL ENGINEER

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Date:	APRIL 7, 2022
Drawn By:	KSK
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Approved By:	-
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CONSTRUCTION DETAILS

Sheet Number:
C501

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NOTES:

1. EXCAVATE TO INDICATED ELEVATIONS AND DIMENSIONS WITHIN A TOLERANCE OF PLUS OR MINUS 1 INCH. EXTEND EXCAVATIONS A SUFFICIENT DISTANCE FROM STRUCTURES FOR PLACING AND REMOVING CONCRETE FORM WORK, FOR INSTALLING SERVICES AND OTHER CONSTRUCTION, AND FOR INSPECTIONS.
2. EXCAVATE TRENCHES TO INDICATED GRADIENTS, LINES, DEPTHS, AND ELEVATIONS TO ALLOW INSTALLATION OF PIPE TO THE DEPTHS INDICATED.
3. PROOF ROLL SUBGRADE WITH A 10-TON VIBRATORY ROLLER TO IDENTIFY SOFT POCKETS AND AREAS OF EXCESS YIELDING. SOFT POCKETS SHOULD BE EXCAVATED AND BACKFILLED WITH CONTROLLED FILL MATERIAL. DO NOT PROOF ROLL WET OR SATURATED SUBGRADES. CONTRACTOR SHALL RECONSTRUCT SUBGRADES DAMAGED BY FREEZING TEMPERATURES, FROST, RAIN, ACCUMULATED WATER, OR CONSTRUCTION ACTIVITIES, AS DIRECTED BY THE LANDSCAPE ARCHITECT AT NO COST TO THE OWNER.
4. THE CONTRACTOR IS COMPLETELY RESPONSIBLE FOR ESTABLISHING THE GRADES INDICATED WITHIN THE TOLERANCE INDICATED FOR THE ESTABLISHMENT OF SUBGRADE.
5. UNIFORMLY MOISTEN OR AERATE SUBGRADE AND EACH SUBSEQUENT FILL OR BACKFILL LAYER BEFORE COMPACTION TO WITHIN 2 PERCENT OF OPTIMUM MOISTURE CONTENT. DO NOT PLACE BACKFILL OR FILL MATERIAL ON SURFACES THAT ARE MUDDY, FROZEN, OR CONTAIN FROST OR ICE. REMOVE AND REPLACE, OR SCARIFY AND AIR-DRY, OTHERWISE SATISFACTORY SOIL MATERIAL THAT EXCEEDS OPTIMUM MOISTURE CONTENT BY 2 PERCENT AND IS TOO WET TO COMPACT TO SPECIFIED DRY UNIT WEIGHT.
6. PLACE BACKFILL AND FILL MATERIALS IN LAYERS NOT MORE THAN 12 INCHES IN LOOSE DEPTH FOR MATERIAL COMPACTED BY HEAVY COMPACTION EQUIPMENT, AND NOT MORE THAN 4 INCHES IN LOOSE DEPTH FOR MATERIAL COMPACTED BY HAND-OPERATED TEMPERS. PLACE BACKFILL AND FILL MATERIALS EVENLY ON ALL SIDES OF STRUCTURES TO REQUIRED ELEVATIONS, AND UNIFORMLY ALONG THE FULL LENGTH OF EACH STRUCTURE.
7. COMPACT SOIL TO NOT LESS THAN THE FOLLOWING PERCENTAGES OF MAXIMUM DRY UNIT WEIGHT ACCORDING TO ASTM D-1557. UNDER STRUCTURES, BUILDING SLABS, STEPS, AND PAVEMENTS, SCARIFY AND RECOMPACT TOP 12 INCHES OF EXISTING SUBGRADE AND EACH LAYER OF BACKFILL OR FILL MATERIAL AT 95 PERCENT. UNDER WALKWAYS, SCARIFY AND RECOMPACT TOP 6 INCHES BELOW SUBGRADE AND COMPACT EACH LAYER OF BACKFILL OR FILL MATERIAL AT 95 PERCENT. UNDER LAWN OR UNPAVED AREAS, SCARIFY AND RECOMPACT TOP 6 INCHES BELOW SUBGRADE AND COMPACT EACH LATER OF BACKFILL OR FILL MATERIAL AT A MINIMUM OF 85 PERCENT AND MAXIMUM OF 90 PERCENT.
8. GENERAL GRADING: UNIFORMLY GRADE AREAS TO A SMOOTH SURFACE, FREE FROM IRREGULAR SURFACE CHANGES. COMPLY WITH COMPACTION REQUIREMENTS AND GRADE TO CROSS SECTIONS, LINES AND ELEVATIONS INDICATED. PROVIDE A SMOOTH TRANSITION BETWEEN ADJACENT EXISTING GRADES AND NEW GRADES. CUT OUT SOFT SPOTS, FILL LOW SPOTS, AND TRIM HIGH SPOTS TO COMPLY WITH REQUIRED SURFACE TOLERANCES.
9. DRAINAGE: PLACE A LAYER OF DRAINAGE FABRIC AROUND PERIMETER OF DRAINAGE TRENCH AS INDICATED. PLACE A 6-INCH COURSE OF FILTER MATERIAL ON DRAINAGE FABRIC TO SUPPORT DRAINAGE PIPE. ENCASE DRAINAGE PIPE IN A MINIMUM OF 12 INCHES OF FILTER MATERIAL AND WRAP IN DRAINAGE FABRIC, OVERLAPPING SIDES AND ENDS AT LEAST 6 INCHES. (PERIMETER DRAIN SHALL BE AS INDICATED ON PLANS.) COMPACT EACH COURSE OF FILTER MATERIAL TO 95 PERCENT OF MAXIMUM DRY UNIT WEIGHT ACCORDING TO ASTMD 698.
10. DRAINAGE BACKFILL: PLACE AND COMPACT FILTER MATERIAL OVER SUBSURFACE DRAIN, TO WIDTH INDICATED, TO WITHIN 12 INCHES OF FINAL SUBGRADE. OVERLAY DRAINAGE BACKFILL WITH ONE LAYER OF DRAINAGE FABRIC, OVERLAPPING SIDES AND ENDS AT LEAST 6 INCHES. COMPACT EACH COURSE OF FILTER MATERIAL TO 95 PERCENT OF MAXIMUM DRY DENSITY ACCORDING TO ASTM 698. PLACE AND COMPACT IMPERVIOUS FILL MATERIAL OVER DRAINAGE BACKFILL TO FINAL SUBGRADE.

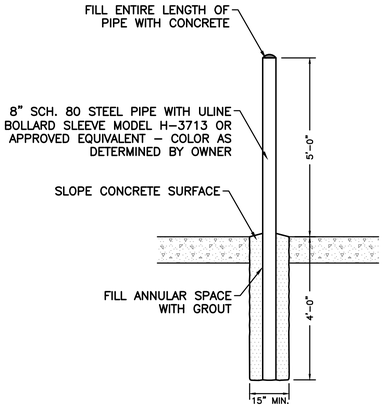
1 PAVEMENT NOTES
SCALE:N.T.S.

PAVING SCHEDULE

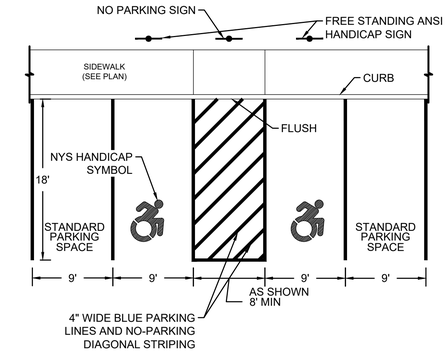
KEY	TYPE	SECTION: N.T.S.	USE
A	HEAVY DUTY ASPHALT PAVEMENT	1.5" NYSDOT ITEM 402.127303 TOPCOURSE 3.0" NYSDOT ITEM 402.257903 DENSE BINDER 12" NYSDOT ITEM 304.12 TYPE 2 CRUSHER RUN STONE SUBBASE 12" NYSDOT ITEM 304.12 TYPE 4 PROCESSED SAND AND GRAVEL GRANULAR SUBBASE GEOTEXTILE MIRAFI 500X OR EQUIVALENT COMPACTED SUBGRADE MIN. CBR=10	ROADWAY
B	CONCRETE WALK	STIFF BROOM FINISH 5" W2.9XW2.9 6X6 W.W.M. MIN. 2" COVER CONCRETE 8" NYSDOT 304 TYPE 2 SUBBASE GEOTEXTILE MIRAFI 500X OR EQUIVALENT COMPACTED SUBGRADE	CONCRETE WALKS, LIGHT DUTY PAD
C	HEAVY DUTY CONCRETE PAD	STIFF BROOM FINISH ON 4500 PSI CONCRETE 6" 12"MIN. 6" #4 REBAR 12" O.C. BOTH WAYS, MIN. 2" COVER 12" MIN. NYSDOT TYPE 2 SUBBASE 12" HAUNCH SLAB - INCREASE SLAB THICKNESS AS CALLED OUT IN PLANS	GENERATOR CONCRETE PAD
D	STONE SURFACE	6" BROKEN SHALE OR TYPE 2 SUBBASE* 18" NYSDOT ITEM 304 TYPE 2 SUBBASE GEOTEXTILE MIRAFI 500X OR EQUIVALENT COMPACTED SUBGRADE MIN. CBR=10	VEHICULAR ACCESS AROUND BUILDING

* PROVIDE SAMPLE OF EACH MATERIAL TO OWNER FOR SELECTION.

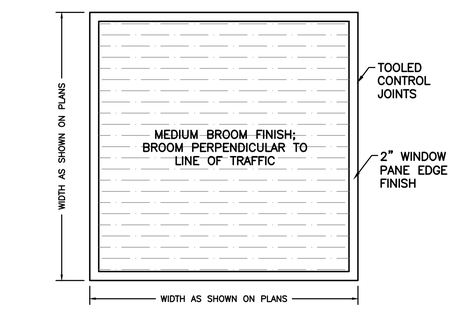
2 PAVEMENT SCHEDULE
SCALE:N.T.S.



3 STEEL BOLLARD
SCALE:N.T.S.



NOTE: STANDARD PARKING SPACES SHALL BE 9'x18' (162 S.F. MIN.).
RADIAL PARKING SPACES SHALL BE 162 S.F. MINIMUM.
HANDICAP PARKING SPACES SHALL HAVE A TOTAL LENGTH OF NO LESS THAN 16' (STALL & LOADING AREA)



ALL SIGNAGE SHALL BE NEW AND CONFORM TO THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (M.U.T.C.D.)

4 SIGN DETAIL
SCALE:N.T.S.

SIGN SCHEDULE

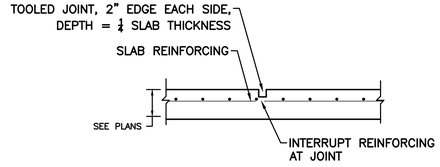
TEXT NO.	TEXT	SIZE	NATIONAL MUTCD NO.	TYPE OF MOUNTING	QUANT.	REMARKS
1	PARKING	12" x 18"	R7-8	POST	1	SET AT 5' ABOVE GRADE
2	STOP	30" x 30"	R1-1	POST	1	SET AT 6' ABOVE GRADE

5 SIGN SCHEDULE
SCALE:N.T.S.

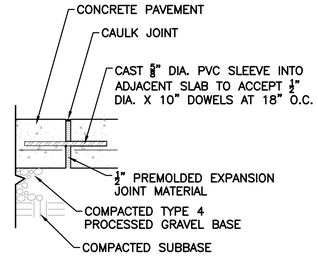
NOTES:

1. SEE PLANS FOR LOCATION AND TYPE OF SCORE JOINTS.
2. BROOM PERPENDICULAR TO LINE OF TRAFFIC.
3. 2" WINDOW PANE EDGE FINISH.
4. DOUBLE COAT OF PENTRA-SIL 244" SEALER TO BE APPLIED TO ALL NEW CONCRETE SURFACES.

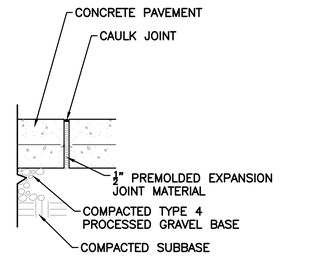
7 CONCRETE PANEL
SCALE:N.T.S.



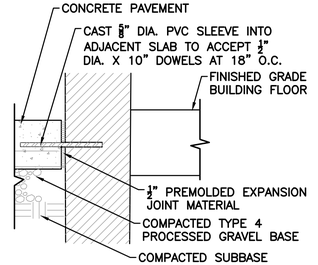
8 CONCRETE CONTROL JOINT
SCALE:N.T.S.



TYPICAL EXPANSION JOINT IN WALKS AND SLABS



TYPICAL EXPANSION JOINT IN WALKS AND SLABS (ONLY WHERE IDENTIFIED ON PLANS)



TYPICAL EXPANSION JOINT AT BUILDING ENTRANCES

9 CONCRETE EXPANSION JOINT
SCALE:N.T.S.

Project:
VILLAGE OF ARDSLEY, NY
NEW PUBLIC WORKS FACILITY
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VILLAGE OF ARDSLEY,
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RHINEBECK ARCHITECTURE

Seal:
STATE OF NEW YORK JEFFERY FRASER BURNS 063480 LICENSED PROFESSIONAL ENGINEER

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Date: APRIL 7, 2022
Drawn By: KSK
Reviewed By: JFB
Approved By: -
W&S Project No: 2180508

Drawing Title:
CONSTRUCTION DETAILS

Sheet Number:
C502

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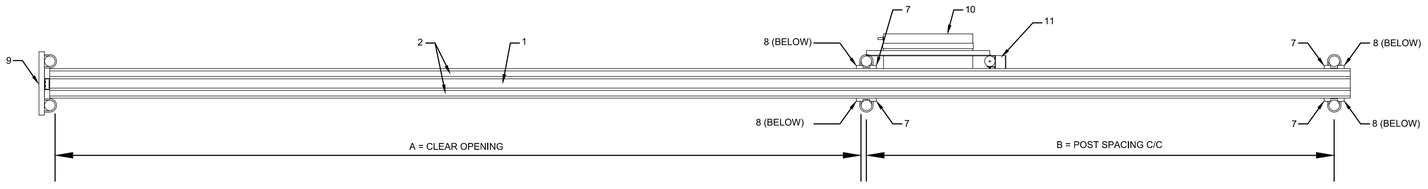
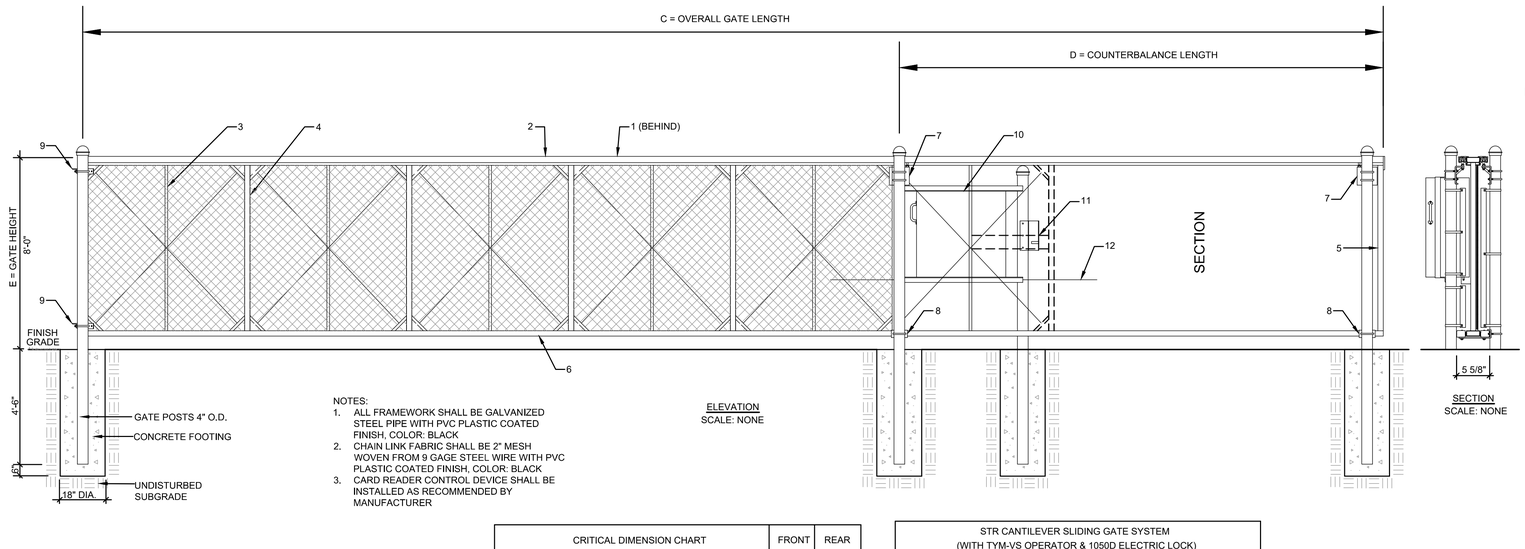


PLAN VIEW
SCALE: NONE



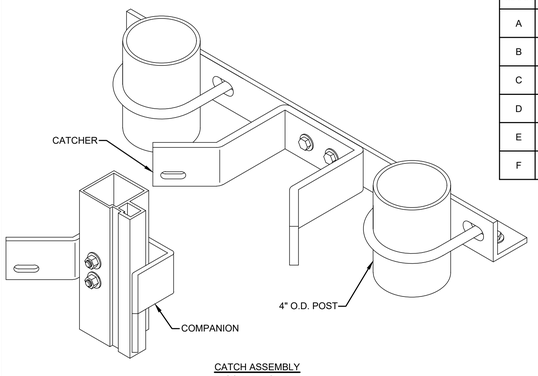
ELEVATION
SCALE: NONE

SECTION
SCALE: NONE

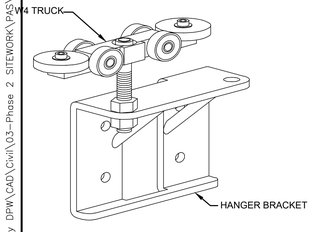
NOTES:
1. ALL FRAMEWORK SHALL BE GALVANIZED STEEL PIPE WITH PVC PLASTIC COATED FINISH, COLOR: BLACK
2. CHAIN LINK FABRIC SHALL BE 2" MESH WOVEN FROM 9 GAGE STEEL WIRE WITH PVC PLASTIC COATED FINISH, COLOR: BLACK
3. CARD READER CONTROL DEVICE SHALL BE INSTALLED AS RECOMMENDED BY MANUFACTURER

CRITICAL DIMENSION CHART			FRONT	REAR
MARK	DESCRIPTION	FORMULA	DIM.	DIM.
A	CLEAR OPENING	A	16'-0"	16'-0"
B	COUNTERBALANCE POST SPACING C/C	(A/2)-11"	7'-1"	7'-1"
C	OVERALL GATE LENGTH	A X 1.5	24'-0"	24'-0"
D	COUNTERBALANCE LENGTH	A X 0.5	8'-0"	8'-0"
E	NOMINAL GATE HEIGHT	E	8'-0"	8'-0"
F	FABRIC HEIGHT	E - 1'-0"	7'-0"	7'-0"

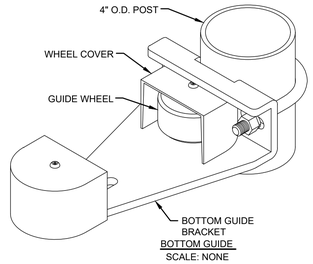
STR CANTILEVER SLIDING GATE SYSTEM (WITH TYM-VS OPERATOR & 1050D ELECTRIC LOCK) MANUFACTURED BY THE TYMETAL CORPORATION OR APPROVED EQUAL		
BILL OF MATERIALS		
MARK	DESCRIPTION	NOTES:
1	TOP PRIMARY MEMBER	
2	STANDARD TRACK	
3	1" X 2" ALUM. TUBE	CENTERED BETWEEN 2X2'S
4	2" X 2" ALUM. TUBE	
5	STANDARD PRIMARY	TYP. AT ENDS OF GATE FRAME
6	2" X 5" ALUM. TUBE	
7	HANGER ASSEMBLY	4 REQUIRED
8	BOTTOM GUIDE ASSEMBLY	2 REQUIRED
9	CATCH ASSEMBLY	2 REQUIRED
10	TYM-VS GATE OPERATOR	208V, 1 PHASE, 11 AMP
11	1050D ELECTRIC LOCK	115V, 1 PHASE, 12 AMP
12	#50 DRIVE CHAIN	
13	CONTROL DEVICE	CARD READER - TO BE DETERMINED BY OWNER



CATCH ASSEMBLY
SCALE: NONE



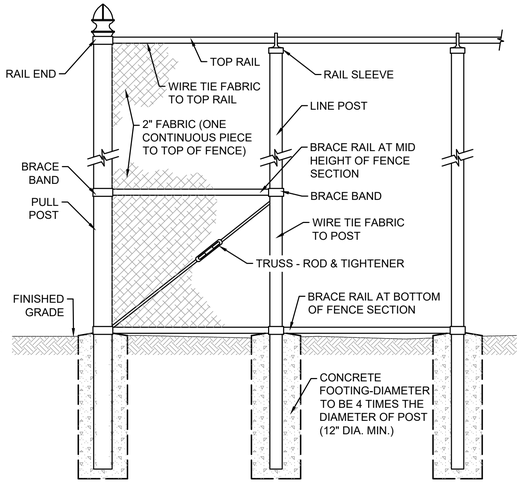
GATE HANGER ASSEMBLY
SCALE: NONE

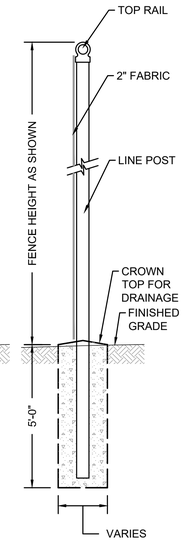


BOTTOM GUIDE
SCALE: NONE

NOTES:
1. ALL FITTINGS STANDARDLY PROVIDED FOR 4" O.D. POSTS. OTHER SIZES AVAILABLE UPON REQUEST.

1 SLIDING GATE #1 AND #2
SCALE:N.T.S.



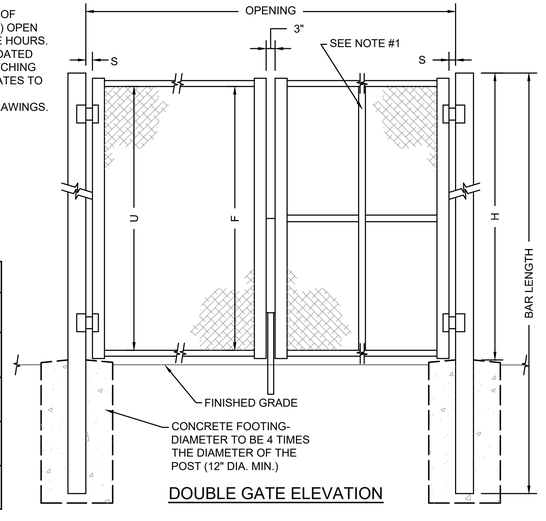


2 CHAIN LINK FENCE
SCALE:N.T.S.

SINGLE OR DOUBLE LEAF GATES		
NOM. HEIGHT (H) (WITHOUT BARBED WIRE)	UPRIGHT HEIGHT (U) (ACTUAL DIMENSION)	FRAME HEIGHT (F) (ACTUAL DIMENSION)
3'-0"	2'-10"	2'-8 1/2"
3'-6"	3'-4"	3'-2 1/2"
4'-0"	3'-10"	3'-8 1/2"
5'-0"	4'-10"	4'-8 1/2"
6'-0"	5'-10"	5'-8 1/2"
7'-0"	6'-10"	6'-8 1/2"
8'-0"	7'-10"	7'-8 1/2"
9'-0"	8'-10"	8'-8 1/2"
10'-0"	9'-10"	9'-8 1/2"
11'-0"	10'-10"	10'-8 1/2"
12'-0"	11'-10"	11'-8 1/2"

NOTES:
1. CENTER UPRIGHT REQUIRED ON GATE LEAVES 8'-0" AND WIDER. CENTER RAIL REQUIRED ON GATE LEAVES 10'-0" AND HIGHER.
2. PROVIDE MEANS OF HOLDING GATE(S) OPEN DURING SITE USE HOURS.
3. PROVIDE ZINC COATED LOCKS WITH MATCHING KEYS FOR ALL GATES TO OWNER.
4. SUBMIT SHOP DRAWINGS.

GATE PLAN



DOUBLE GATE ELEVATION

DOUBLE LEAF GATES		
OPENING (FACE TO FACE)	GATE POSTS (SQ. AND RND SIZES)	HINGE SPACE (S) (POST TO UPRIGHT)
8'-0" THROUGH 12'-0"	2 1/2" SQ. 2.875" O.D.	FOR SQUARE AND ROUND GATE POSTS: 2 1/4"
14'-0" THROUGH 24'-0"	3" SQ. 4" O.D.	FOR SQUARE AND ROUND GATE POSTS: 2 1/4"
26'-0" THROUGH 36'-0"	6" SQ. 6.625" O.D.	FOR GATE POSTS: SQ-2 1/4" RND-3 1/2"
38'-0" THROUGH 40'-0"	8" SQ. 8.625" O.D.	FOR GATE POSTS: SQ-2 1/4" RND-3 1/2"

3 CHAIN LINK GATE
SCALE:N.T.S.

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CONSTRUCTION DETAILS

Sheet Number:
C503

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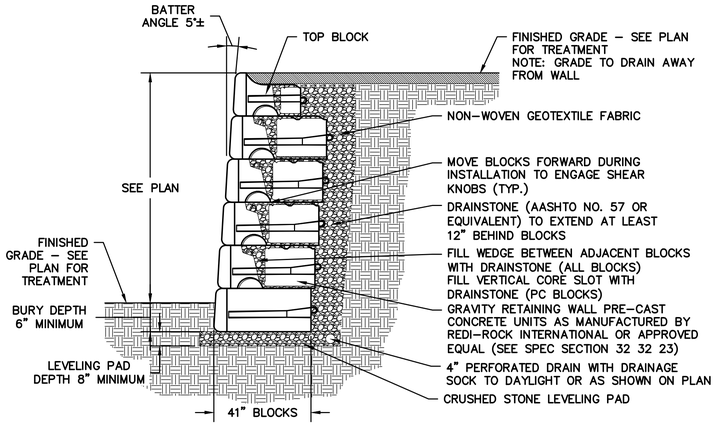
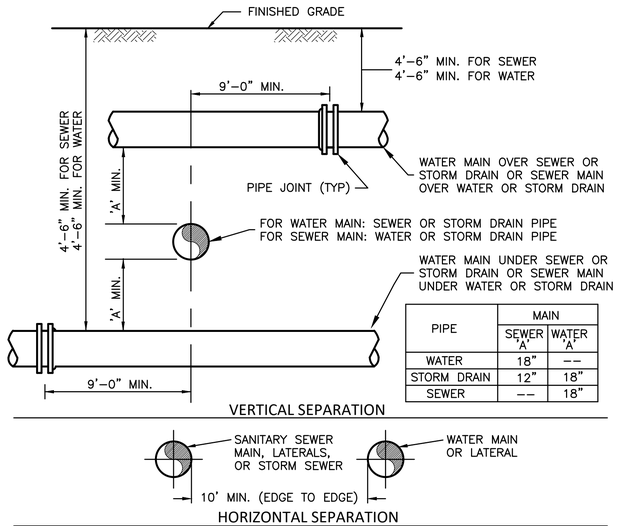


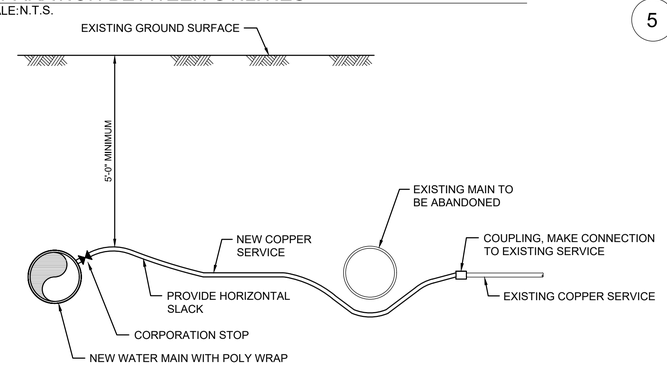
NOTES:
1. INSTALL ALL ELEMENTS PER MANUFACTURER'S GUIDELINES.
2. CONTRACTOR SHALL SUBMIT SHOP DRAWINGS FOR REVIEW AND APPROVAL PRIOR TO CONSTRUCTION.

1 RETAINING WALL
SCALE:N.T.S.

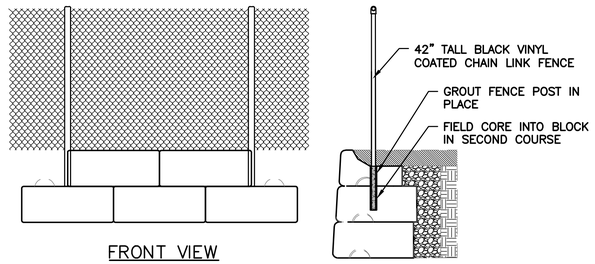


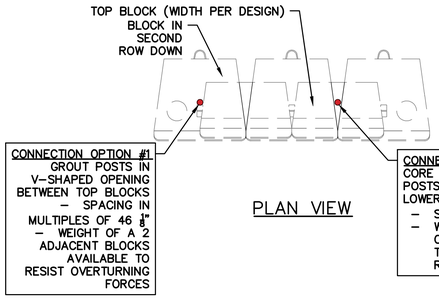
PIPE	MAIN	
	SEWER 'A'	WATER 'A'
WATER	18"	––
STORM DRAIN	12"	18"
SEWER	––	18"

4 SEPARATION BETWEEN UTILITIES
SCALE:N.T.S.



7 TYPICAL WATER SERVICE RECONNECTION
SCALE:N.T.S.





NOTES:
1. INSTALL ALL ELEMENTS PER MANUFACTURER'S GUIDELINES.
2. CONTRACTOR SHALL SUBMIT SHOP DRAWINGS FOR REVIEW AND APPROVAL PRIOR TO CONSTRUCTION.
3. PROVIDE CHAIN LINK FENCE (FALL PROTECTION) WHEN EXPOSED WALL FACE IS 30" IN HEIGHT OR GREATER.

2 RETAINING WALL WITH FENCE
SCALE:N.T.S.

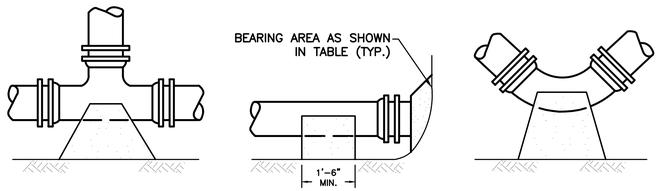


TABLE OF CONCRETE THRUST RESTRAINT MINIMUM BEARING AREAS IN SQUARE FEET AGAINST UNDISTURBED MATERIAL FOR WATER MAIN FITTINGS

SIZE OF MAIN	90° BENDS, TEES, CAPS	45° BENDS, WYES	22–1/2° BENDS	11–1/4° BENDS
6",8"	5	4	2	2
10",12"	12	9	5	2

NOTES:
1. CONCRETE THRUST RESTRAINT SHALL ONLY BE USED WHERE OTHER MEANS OF RESTRAINT ARE NOT FEASIBLE.
2. CONTRACTOR SHALL USE CARE TO AVOID PLACEMENT OF CONCRETE ON THE FITTING JOINTS.

5 WATER THRUST BLOCK DETAIL
SCALE:N.T.S.

INSTALLATION OF WATER MAINS IN RELATIONSHIP TO SANITARY SEWERS

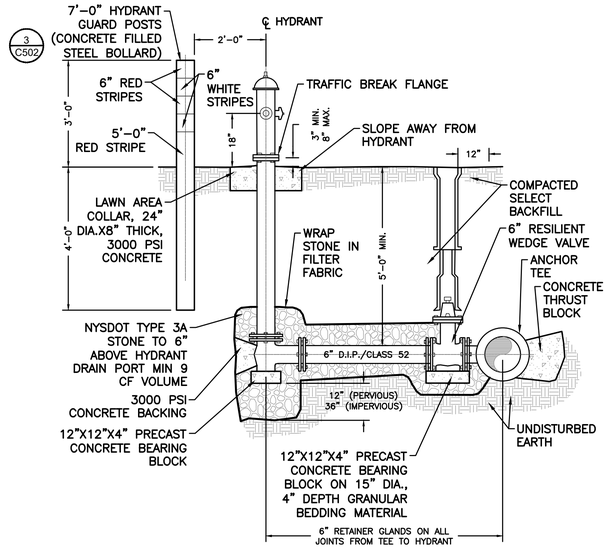
THE FOLLOWING PARAGRAPHS ARE FROM THE 1992 STANDARDS FOR WATER WORKS OF THE NEW YORK STATE DEPARTMENT OF HEALTH AND ARE APPLICABLE TO WORK UNDER THIS CONTRACT WITH RESPECT TO MAINTAINING ADEQUATE HORIZONTAL AND VERTICAL SEPARATIONS BETWEEN WATERLINES AND SEWERS:

NOTES:

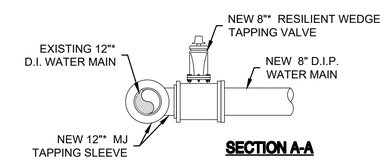
1. PARALLEL INSTALLATION – WATER MAINS SHALL BE LAID AT LEAST 10 FEET HORIZONTALLY FROM ANY EXISTING OR PROPOSED SEWER. THE DISTANCE SHALL BE MEASURED EDGE TO EDGE. IN CASES WHERE IT IS NOT PRACTICAL TO MAINTAIN A TEN FOOT SEPARATION. THE REVIEWING AUTHORITY MAY ALLOW DEVIATION ON A CASE–BY–CASE BASIS, IF SUPPORTED BY DATA FROM THE DESIGN ENGINEER. SUCH DEVIATION MAY ALLOW INSTALLATION OF THE WATER MAIN CLOSER TO A SEWER, PROVIDED THAT THE WATER MAIN IS LAID IN A SEPARATE TRENCH OR ON AN UNDISTURBED EARTH SHELF LOCATED ON ONE SIDE OF THE SEWER AT SUCH AN ELEVATION THAT THE BOTTOM OF THE WATER MAIN IS AT LEAST EIGHTEEN INCHES ABOVE THE TOP OF THE SEWER.
2. WATER MAINS CROSSING SEWERS SHALL BE LAID TO PROVIDE A MINIMUM VERTICAL DISTANCE OF EIGHTEEN INCHES BETWEEN THE OUTSIDE OF THE WATER MAIN AND THE OUTSIDE OF THE SEWER. THIS SHALL BE THE CASE WHERE THE WATER MAIN IS EITHER ABOVE OR BELOW THE SEWER. AT CROSSINGS, ONE FULL LENGTH OF WATER PIPE SHALL BE LOCATED SO BOTH JOINTS WILL BE AS FAR FROM THE SEWER AS POSSIBLE. SPECIAL STRUCTURAL SUPPORT FOR THE WATER AND SEWER PIPES MAY BE REQUIRED.
3. THERE SHALL BE AT LEAST A TEN FOOT SEPARATION BETWEEN WATER MAINS AND SANITARY SEWER FORCE MAINS. THERE SHALL BE AN EIGHTEEN INCH VERTICAL SEPARATION AT CROSSINGS AS REQUIRED IN NOTE 1.
4. NO WATER PIPE SHALL PASS THROUGH OR COME IN CONTACT WITH ANY PART OF A SEWER MANHOLE.

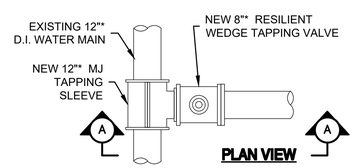
NOTES:
1. 8' A-FRAME RECYCLED PLASTIC PICNIC TABLE MODEL NO. H-2564C AS MANUFACTURED BY ULINE, OR APPROVED EQUIVALENT.
2. REFER TO SPEC SECTION 32 30 00.

3 PICNIC TABLE
SCALE:N.T.S.



6 FIRE HYDRANT
SCALE:N.T.S.





* CONTRACTOR SHALL PERFORM TEST DIG TO VERIFY EX. WATER MAIN DEPTH, MATERIAL, & SIZE. SEE SPECIFICATION FOR MODEL NUMBER, ETC...

8 TAPPING SLEEVE AND VALVE DETAIL
SCALE:N.T.S.

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RHINEBECK ARCHITECTURE

Seal:
STATE OF NEW YORK — JEFFERY FRASER RUSSELL — 090485 — LICENSED PROFESSIONAL ENGINEER

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Reviewed By:	JFB
Approved By:	-
W&S Project No:	2180508

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Sheet Number:
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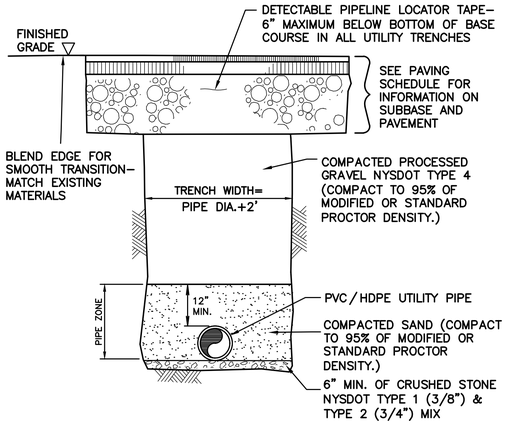
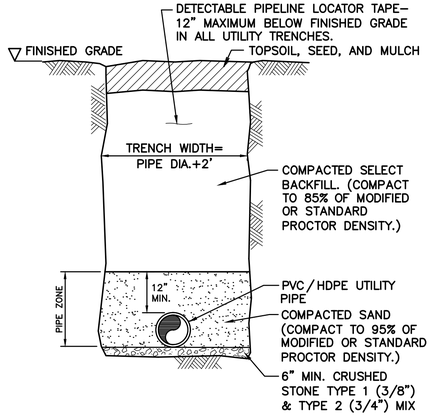
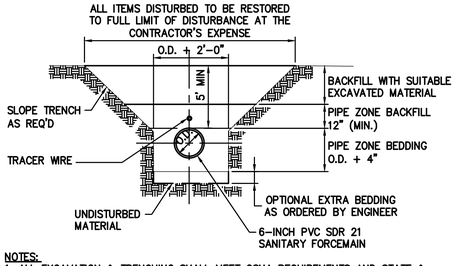


1 TRENCH DETAIL - PAVED
SCALE:N.T.S.

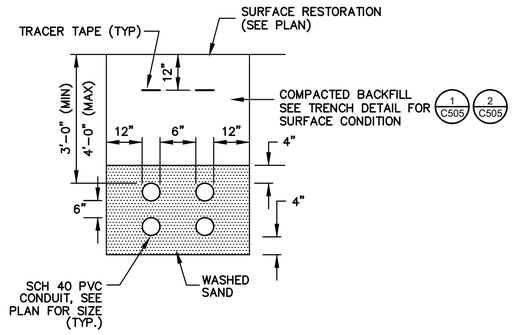


2 TRENCH DETAIL - UNPAVED
SCALE:N.T.S.

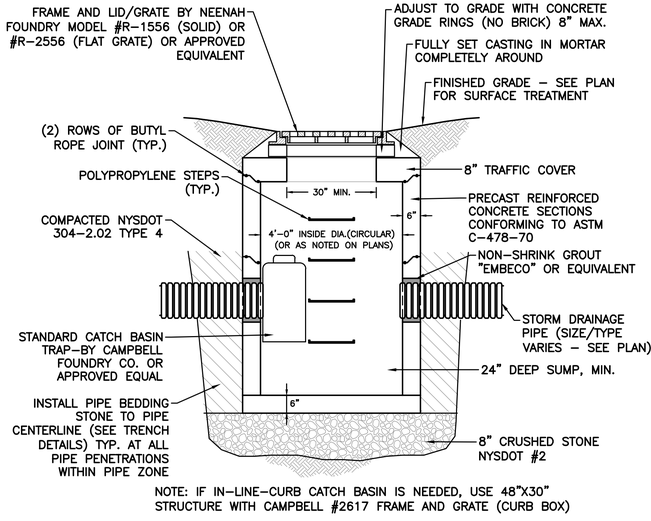


NOTES:
1. ALL EXCAVATION & TRENCHING SHALL MEET OSHA REQUIREMENTS AND STATE & LOCAL SAFETY REGULATIONS.
2. ALL BACKFILL MATERIAL TO BE COMPACTED IN 6" (MAX.) LIFTS TO 95% STANDARD PROCTOR DENSITY.
3. DEBRIS, FROZEN MATERIAL, LARGE CLODS OR STONES, ORGANIC MATTER, OR OTHER UNSUITABLE MATERIALS ELIMINATED FROM USE AS BACKFILL WITHIN 2 FEET OF TOP OF PIPE.
4. PIPE ZONE BEDDING AND BACKFILL SHALL CONSIST OF SELECT GRANULAR MATERIAL.
5. IF WET CONDITIONS ARE ENCOUNTERED, PIPE ZONE BEDDING AND BACKFILL SHALL CONSIST OF NO. 2 CRUSHED STONE, OR A.O.B.E.

3 TRENCH DETAIL - SANITARY FORCE MAIN
SCALE:N.T.S.

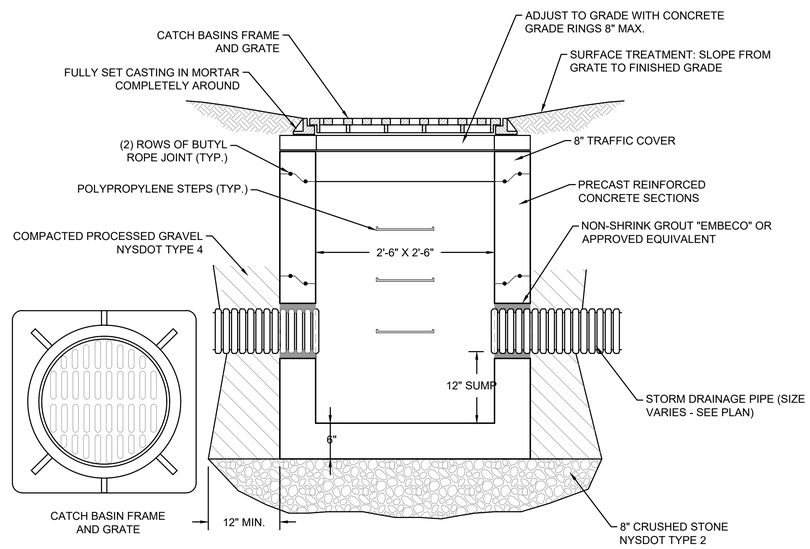


4 UNDERGROUND CONDUIT DUCTBANK
SCALE:N.T.S.



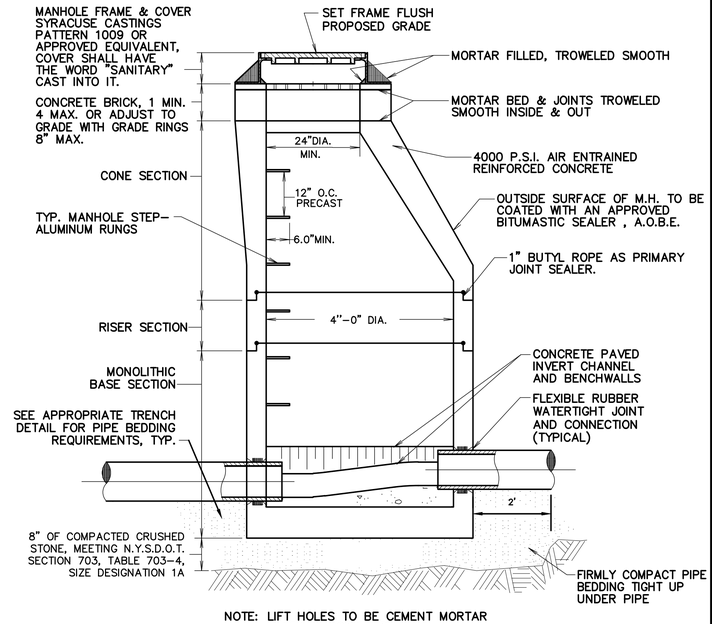
NOTE: IF IN–LINE–CURB CATCH BASIN IS NEEDED, USE 48"X30" STRUCTURE WITH CAMPBELL #2617 FRAME AND GRATE (CURB BOX)

5 CATCH BASIN - 4' I.D.
SCALE:N.T.S.



NOTES:
1. ANY REBAR LIFTING LOOPS IN CATCH BASINS SHALL BE CUTOFF AND PATCHED FLUSH. STRUCTURE TO BE WATERTIGHT.
2. MORTAR ALL ANNULAR SPACE AROUND PIPE, AT PIPE TO CATCH BASIN CONNECTIONS, WITH NON-SHRINK GROUT. "EMBECO" OR AN APPROVED EQUIVALENT.
3. REFER TO TRENCH DETAILS FOR ALL BEDDING AND BACKFILL MATERIALS WITHIN PIPE ZONE AREA.

6 CATCH BASIN - SQUARE
SCALE:N.T.S.

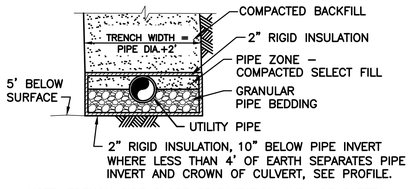


NOTE: LIFT HOLES TO BE CEMENT MORTAR FILLED SMOOTH WITH WALL.

7 SANITARY MANHOLE
SCALE:N.T.S.

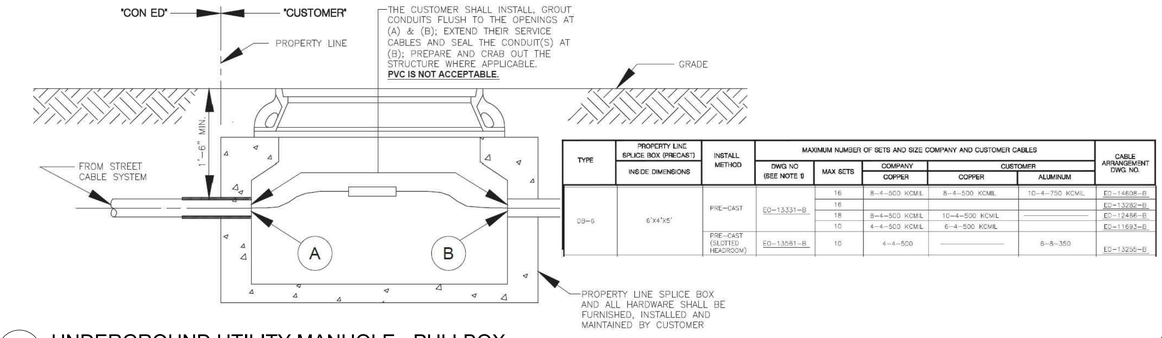
NOTE: (FOR PAVED AND UNPAVED AREAS)

1. PROVIDE 2" OF RIGID INSULATION ALONG SIDEWALLS AND ACROSS TOP OF TRENCH IN AREAS OF BURIAL COVER LESS THAN MINIMUM. PLACE INSULATION VERTICALLY DOWN TO 5' BELOW SURFACE.
2. PROVIDE INSULATION AT CROSSINGS OF STORM CULVERTS, A.O.B.E.



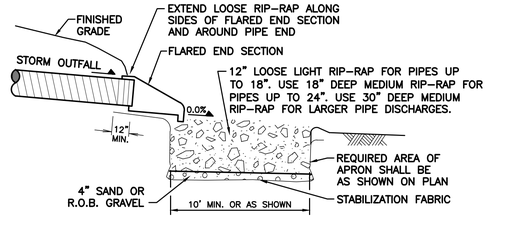
NOTE: TRENCH/SIDE SLOPE STABILIZATION AND JOB SAFETY ARE THE RESPONSIBILITY OF THE CONTRACTOR. COMPLY WITH ALL APPLICABLE STATE AND FEDERAL REGULATIONS.

8 TRENCH DETAIL - INSULATION
SCALE:N.T.S.



TYPE	PROPERTY LINE SPLICE BOX (PRECAST) INSIDE DIMENSIONS	INSTALL METHOD	MAXIMUM NUMBER OF SETS AND SIZE COMPANY AND CUSTOMER CABLES				CABLE ARRANGEMENT DWG. NO.
			DWG NO (SEE NOTE 1)	MAX SETS	COMPANY COPPER	CUSTOMER COPPER	CUSTOMER ALUMINUM	
D9–6	6'X4'X6'	PRE–CAST	EO–13331–B	16	8–4–500 KCMIL	8–4–500 KCMIL	10–4–750 KCMIL	EO–14636–B
				16				EO–13282–B
				18	8–4–500 KCMIL	10–4–500 KCMIL		EO–12456–B
				10	4–4–500 KCMIL	6–4–500 KCMIL		EO–11693–B
		PRE–CAST (SLOTTED HEADROOM)	EO–13561–B	10	4–4–500		6–8–350	EO–13235–B

9 UNDERGROUND UTILITY MANHOLE - PULLBOX
SCALE:N.T.S.



10 FLARED END SECTION WITH RIP RAP
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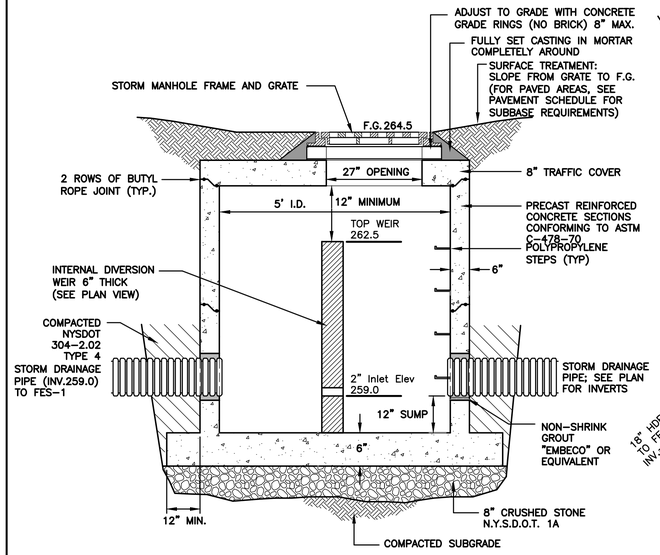
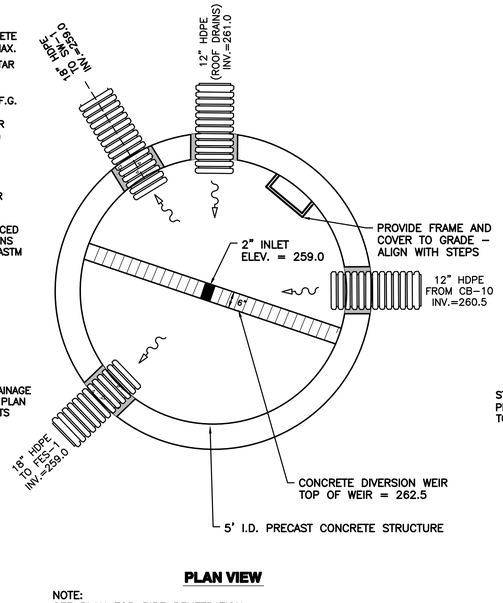


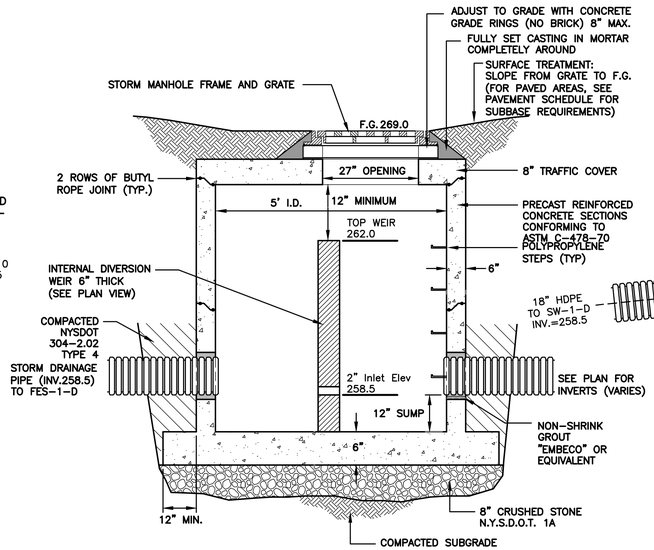
SECTION VIEW



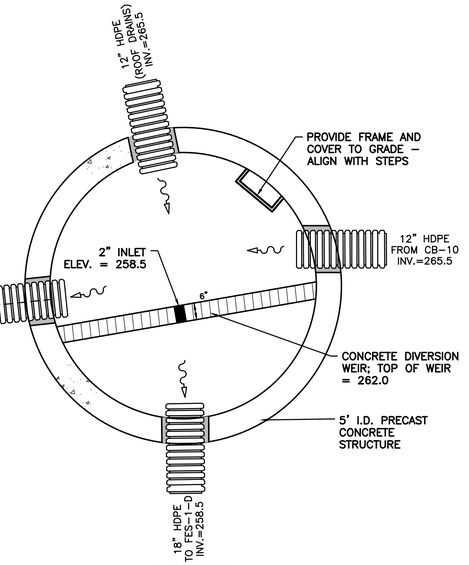
PLAN VIEW

NOTE:
SEE PLAN FOR PIPE PENETRATION ALIGNMENTS.

1 DIVERSION MANHOLE (DM-1)
SCALE:N.T.S.



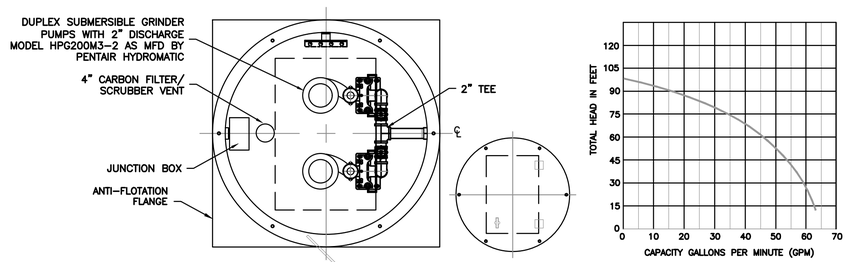
SECTION VIEW



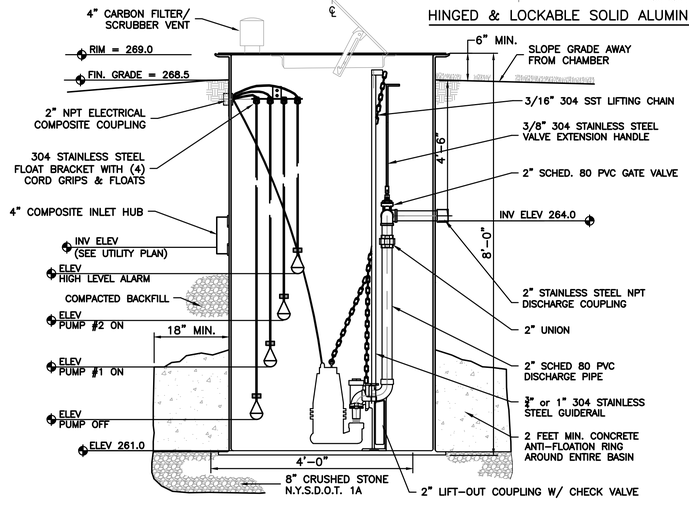
PLAN VIEW

NOTE:
SEE PLAN FOR PIPE PENETRATION ALIGNMENTS.

3 DIVERSION MANHOLE (DM-1-D)
SCALE:N.T.S.

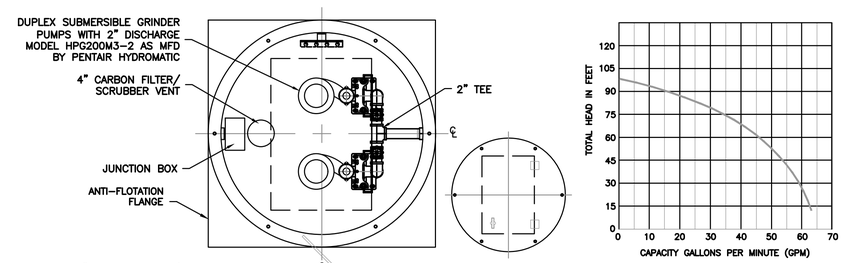


HINGED & LOCKABLE SOLID ALUMINUM COVER

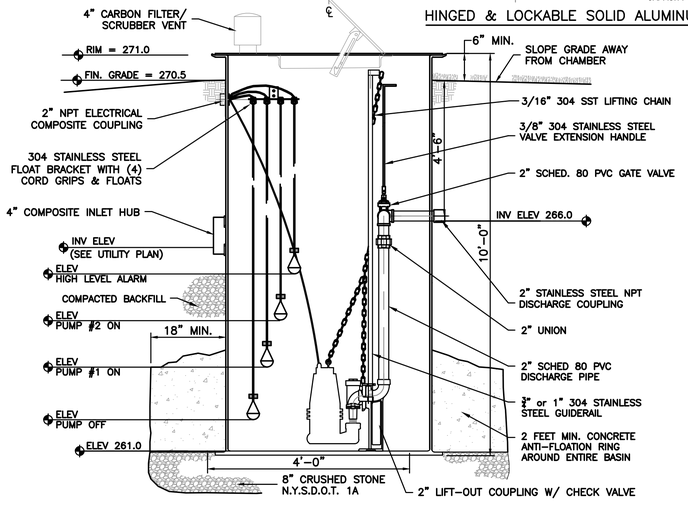


NOTE:
ALL ELECTRICAL EQUIPMENT AND WORK PERFORMED SHALL BE APPROVED AND DONE IN STRICT ACCORDANCE WITH THE LATEST REVISION OF NATIONAL ELECTRIC CODE (NEC) REQUIREMENTS FOR CLASS 1, GROUP D, DIVISION-1 HAZARDOUS LOCATIONS. NO SPLICES SHALL OCCUR WITHIN THE WET WELL OF THE PUMP STATION.

2 SANITARY PUMP STATION (PS-1) (8' DEEP STRUCTURE)
SCALE:N.T.S.



HINGED & LOCKABLE SOLID ALUMINUM COVER



NOTE:
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4 SANITARY PUMP STATION (PS-1-D) (10' DEEP STRUCTURE)
SCALE:N.T.S.

Project:
VILLAGE OF ARDSLEY, NY
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W&S Project No: 2180508

Drawing Title:
CONSTRUCTION DETAILS

Sheet Number:
C506

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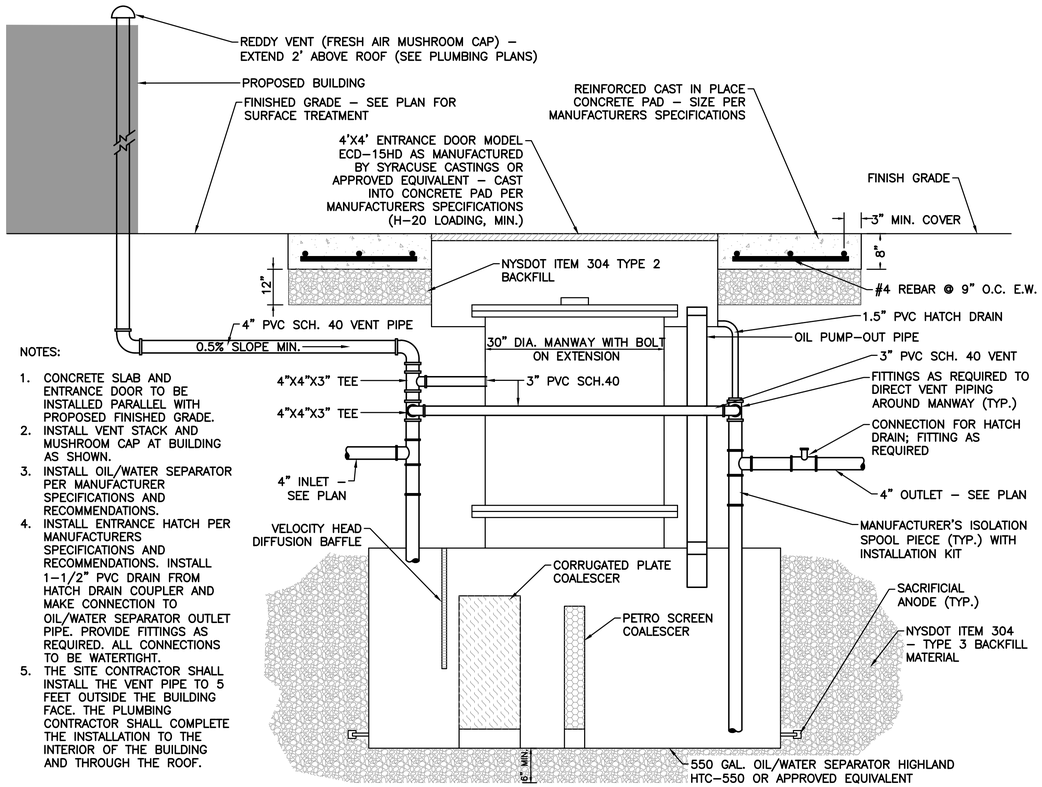
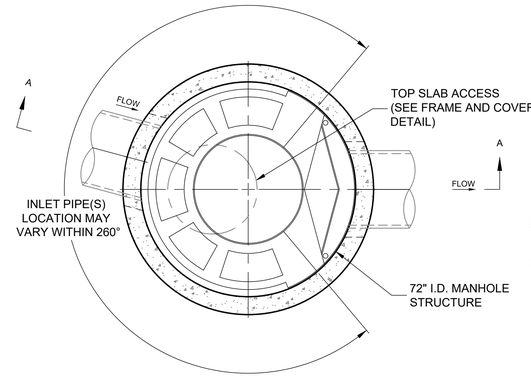


NOTES:

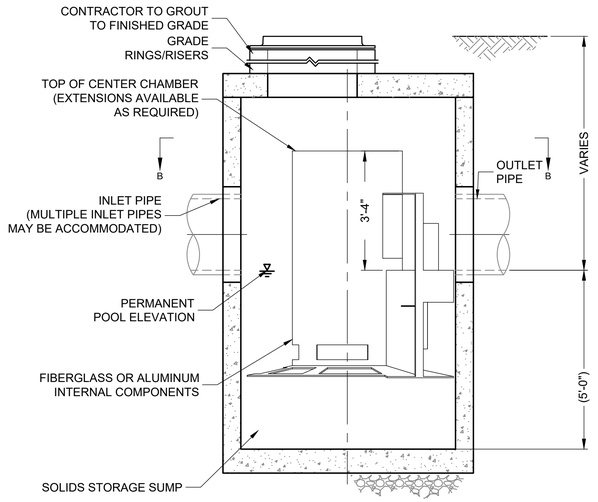
1. CONCRETE SLAB AND ENTRANCE DOOR TO BE INSTALLED PARALLEL WITH PROPOSED FINISHED GRADE.
2. INSTALL VENT STACK AND MUSHROOM CAP AT BUILDING AS SHOWN.
3. INSTALL OIL/WATER SEPARATOR PER MANUFACTURER SPECIFICATIONS AND RECOMMENDATIONS.
4. INSTALL ENTRANCE HATCH PER MANUFACTURERS SPECIFICATIONS AND RECOMMENDATIONS. INSTALL 1–1/2" PVC DRAIN FROM HATCH DRAIN COUPLER AND MAKE CONNECTION TO OIL/WATER SEPARATOR OUTLET PIPE. PROVIDE FITTINGS AS REQUIRED. ALL CONNECTIONS TO BE WATERTIGHT.
5. THE SITE CONTRACTOR SHALL INSTALL THE VENT PIPE TO 5 FEET OUTSIDE THE BUILDING FACE. THE PLUMBING CONTRACTOR SHALL COMPLETE THE INSTALLATION TO THE INTERIOR OF THE BUILDING AND THROUGH THE ROOF.

1 OIL - WATER SEPARATOR
SCALE:N.T.S.



PLAN VIEW B-B
NOT TO SCALE

FRAME AND COVER
(CASTING VARIES)
NOT TO SCALE



ELEVATION A-A
NOT TO SCALE

2 HYDRODYNAMIC SEPARATOR
SCALE:N.T.S.

GENERAL NOTES

1. CONTECH TO PROVIDE ALL MATERIALS UNLESS NOTED OTHERWISE.
2. FOR SITE SPECIFIC DRAWINGS WITH DETAILED STRUCTURE DIMENSIONS AND WEIGHT, PLEASE CONTACT YOUR CONTECH ENGINEERED SOLUTIONS LLC REPRESENTATIVE. www.ContechES.com
3. CASCADE SEPARATOR WATER QUALITY STRUCTURE SHALL BE IN ACCORDANCE WITH ALL DESIGN DATA AND INFORMATION CONTAINED IN THIS DRAWING. CONTRACTOR TO CONFIRM STRUCTURE MEETS REQUIREMENTS OF PROJECT.
4. CASCADE SEPARATOR STRUCTURE SHALL MEET AASHTO HS20 LOAD RATING, ASSUMING EARTH COVER OF 0' - 2', AND GROUNDWATER ELEVATION AT, OR BELOW, THE OUTLET PIPE INVERT ELEVATION. ENGINEER OF RECORD TO CONFIRM ACTUAL GROUNDWATER ELEVATION. CASTINGS SHALL MEET AASHTO M306 AND BE CAST WITH THE CONTECH LOGO.
5. CASCADE SEPARATOR STRUCTURE SHALL BE PRECAST CONCRETE CONFORMING TO ASTM C478 AND AASHTO LOAD FACTOR DESIGN METHOD.

INSTALLATION NOTES

A. ANY SUB-BASE, BACKFILL DEPTH, AND/OR ANTI-FLOTATION PROVISIONS ARE SITE-SPECIFIC DESIGN CONSIDERATIONS AND SHALL BE SPECIFIED BY ENGINEER OF RECORD.
B. CONTRACTOR TO PROVIDE EQUIPMENT WITH SUFFICIENT LIFTING AND REACH CAPACITY TO LIFT AND SET THE CASCADE SEPARATOR MANHOLE STRUCTURE.
C. CONTRACTOR TO INSTALL JOINT SEALANT BETWEEN ALL STRUCTURE SECTIONS AND ASSEMBLE STRUCTURE.
D. CONTRACTOR TO PROVIDE, INSTALL, AND GROUT INLET AND OUTLET PIPE(S). MATCH PIPE INVERTS WITH ELEVATIONS SHOWN. ALL PIPE CENTERLINES TO MATCH PIPE OPENING CENTERLINES.
E. CONTRACTOR TO TAKE APPROPRIATE MEASURES TO ASSURE UNIT IS WATER TIGHT, HOLDING WATER TO FLOWLINE INVERT MINIMUM. IT IS SUGGESTED THAT ALL JOINTS BELOW PIPE INVERTS ARE GROUTED.

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CONSTRUCTION DETAILS

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MC-3500 STORMTECH CHAMBER SPECIFICATIONS

1. CHAMBERS SHALL BE STORMTECH MC-3500.
2. CHAMBERS SHALL BE ARCH-SHAPED AND SHALL BE MANUFACTURED FROM VIRGIN, IMPACT-MODIFIED POLYPROPYLENE COPOLYMERS.
3. CHAMBERS SHALL MEET THE REQUIREMENTS OF ASTM F2418-16a, "STANDARD SPECIFICATION FOR POLYPROPYLENE (PP) CORRUGATED WALL STORMWATER COLLECTION CHAMBERS" CHAMBER CLASSIFICATION 45x76 DESIGNATION SS.
4. CHAMBER ROWS SHALL PROVIDE CONTINUOUS, UNOBSTRUCTED INTERNAL SPACE WITH NO INTERNAL SUPPORTS THAT WOULD IMPEDE FLOW OR LIMIT ACCESS FOR INSPECTION.
5. THE STRUCTURAL DESIGN OF THE CHAMBERS, THE STRUCTURAL BACKFILL, AND THE INSTALLATION REQUIREMENTS SHALL ENSURE THAT THE LOAD FACTORS SPECIFIED IN THE AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS, SECTION 12.12, ARE MET FOR: 1) LONG-DURATION DEAD LOADS AND 2) SHORT-DURATION LIVE LOADS, BASED ON THE AASHTO DESIGN TRUCK WITH CONSIDERATION FOR IMPACT AND MULTIPLE VEHICLE PRESENCES.
6. CHAMBERS SHALL BE DESIGNED, TESTED AND ALLOWABLE LOAD CONFIGURATIONS DETERMINED IN ACCORDANCE WITH ASTM F2787, "STANDARD PRACTICE FOR STRUCTURAL DESIGN OF THERMOPLASTIC CORRUGATED WALL STORMWATER COLLECTION CHAMBERS". LOAD CONFIGURATIONS SHALL INCLUDE: 1) INSTANTANEOUS (<1 MIN) AASHTO DESIGN TRUCK LIVE LOAD ON MINIMUM COVER 2) MAXIMUM PERMANENT (75-YR) COVER LOAD AND 3) ALLOWABLE COVER WITH PARKED (1-WEEK) AASHTO DESIGN TRUCK.
7. REQUIREMENTS FOR HANDLING AND INSTALLATION:
   - TO MAINTAIN THE WIDTH OF CHAMBERS DURING SHIPPING AND HANDLING, CHAMBERS SHALL HAVE INTEGRAL, INTERLOCKING STACKING LUGS.
   - TO ENSURE A SECURE JOINT DURING INSTALLATION AND BACKFILL, THE HEIGHT OF THE CHAMBER JOINT SHALL NOT BE LESS THAN 3".
   - TO ENSURE THE INTEGRITY OF THE ARCH SHAPE DURING INSTALLATION, a) THE ARCH STIFFNESS CONSTANT AS DEFINED IN SECTION 6.2.8 OF ASTM F2418 SHALL BE GREATER THAN OR EQUAL TO 500 LBS/IN/IN. AND b) TO RESIST CHAMBER DEFORMATION DURING INSTALLATION AT ELEVATED TEMPERATURES (ABOVE 73° F / 23° C), CHAMBERS SHALL BE PRODUCED FROM REFLECTIVE GOLD OR YELLOW COLORS.
8. ONLY CHAMBERS THAT ARE APPROVED BY THE SITE DESIGN ENGINEER WILL BE ALLOWED. UPON REQUEST BY THE SITE DESIGN ENGINEER OR OWNER, THE CHAMBER MANUFACTURER SHALL SUBMIT A STRUCTURAL EVALUATION FOR APPROVAL BEFORE DELIVERING CHAMBERS TO THE PROJECT SITE AS FOLLOWS:
   - THE STRUCTURAL EVALUATION SHALL BE SEALED BY A REGISTERED PROFESSIONAL ENGINEER.
   - THE STRUCTURAL EVALUATION SHALL DEMONSTRATE THAT THE SAFETY FACTORS ARE GREATER THAN OR EQUAL TO 1.95 FOR DEAD LOAD AND 1.75 FOR LIVE LOAD, THE MINIMUM REQUIRED BY ASTM F2787 AND BY SECTIONS 3 AND 12.12 OF THE AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS FOR THERMOPLASTIC PIPE.
   - THE TEST DERIVED CREEP MODULUS AS SPECIFIED IN ASTM F2418 SHALL BE USED FOR PERMANENT DEAD LOAD DESIGN EXCEPT THAT IT SHALL BE THE 75-YEAR MODULUS USED FOR DESIGN.
9. CHAMBERS AND END CAPS SHALL BE PRODUCED AT AN ISO 9001 CERTIFIED MANUFACTURING FACILITY.

IMPORTANT - NOTES FOR THE BIDDING AND INSTALLATION OF MC-3500 CHAMBER SYSTEM

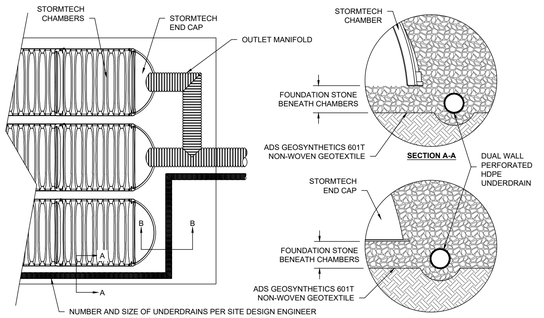
1. STORMTECH MC-3500 CHAMBERS SHALL NOT BE INSTALLED UNTIL THE MANUFACTURER'S REPRESENTATIVE HAS COMPLETED A PRE-CONSTRUCTION MEETING WITH THE INSTALLERS.
2. STORMTECH MC-3500 CHAMBERS SHALL BE INSTALLED IN ACCORDANCE WITH THE "STORMTECH MC-3500/MC-4500 CONSTRUCTION GUIDE".
3. CHAMBERS ARE NOT TO BE BACKFILLED WITH A DOZER OR AN EXCAVATOR SITUATED OVER THE CHAMBERS.
   STORMTECH RECOMMENDS 3 BACKFILL METHODS:
   - STONESHOOTER LOCATED OFF THE CHAMBER BED.
   - BACKFILL AS ROWS ARE BUILT USING AN EXCAVATOR ON THE FOUNDATION STONE OR SUBGRADE.
   - BACKFILL FROM OUTSIDE THE EXCAVATION USING A LONG BOOM HOE OR EXCAVATOR.
4. THE FOUNDATION STONE SHALL BE LEVELED AND COMPACTED PRIOR TO PLACING CHAMBERS.
5. JOINTS BETWEEN CHAMBERS SHALL BE PROPERLY SEATED PRIOR TO PLACING STONE.
6. MAINTAIN MINIMUM - SPACING BETWEEN THE CHAMBER ROWS.
7. INLET AND OUTLET MANIFOLDS MUST BE INSERTED A MINIMUM OF 12" (300 mm) INTO CHAMBER END CAPS.
8. EMBEDMENT STONE SURROUNDING CHAMBERS MUST BE A CLEAN, CRUSHED, ANGULAR STONE MEETING THE AASHTO M43 DESIGNATION OF #3 OR #4.
9. STONE MUST BE PLACED ON THE TOP CENTER OF THE CHAMBER TO ANCHOR THE CHAMBERS IN PLACE AND PRESERVE ROW SPACING.
10. THE CONTRACTOR MUST REPORT ANY DISCREPANCIES WITH CHAMBER FOUNDATION MATERIALS BEARING CAPACITIES TO THE SITE DESIGN ENGINEER.
11. ADS RECOMMENDS THE USE OF "FLEXSTORM CATCH IT" INSERTS DURING CONSTRUCTION FOR ALL INLETS TO PROTECT THE SUBSURFACE STORMWATER MANAGEMENT SYSTEM FROM CONSTRUCTION SITE RUNOFF.

NOTES FOR CONSTRUCTION EQUIPMENT

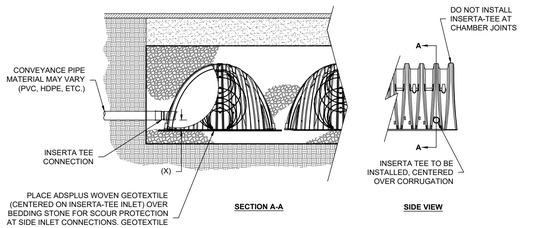
1. STORMTECH MC-3500 CHAMBERS SHALL BE INSTALLED IN ACCORDANCE WITH THE "STORMTECH MC-3500/MC-4500 CONSTRUCTION GUIDE".
2. THE USE OF EQUIPMENT OVER MC-3500 CHAMBERS IS LIMITED:
   - NO EQUIPMENT IS ALLOWED ON BARE CHAMBERS.
   - NO RUBBER TIRED LOADER, DUMP TRUCK, OR EXCAVATORS ARE ALLOWED UNTIL PROPER FILL DEPTHS ARE REACHED IN ACCORDANCE WITH THE "STORMTECH MC-3500/MC-4500 CONSTRUCTION GUIDE".
   - WEIGHT LIMITS FOR CONSTRUCTION EQUIPMENT CAN BE FOUND IN THE "STORMTECH MC-3500/MC-4500 CONSTRUCTION GUIDE".
3. FULL 36" (900 mm) OF STABILIZED COVER MATERIALS OVER THE CHAMBERS IS REQUIRED FOR DUMP TRUCK TRAVEL OR DUMPING.

USE OF A DOZER TO PUSH EMBEDMENT STONE BETWEEN THE ROWS OF CHAMBERS MAY CAUSE DAMAGE TO CHAMBERS AND IS NOT AN ACCEPTABLE BACKFILL METHOD. ANY CHAMBERS DAMAGED BY USING THE "DUMP AND PUSH" METHOD ARE NOT COVERED UNDER THE STORMTECH STANDARD WARRANTY.

CONTACT STORMTECH AT 1-888-892-2694 WITH ANY QUESTIONS ON INSTALLATION REQUIREMENTS OR WEIGHT LIMITS FOR CONSTRUCTION EQUIPMENT.



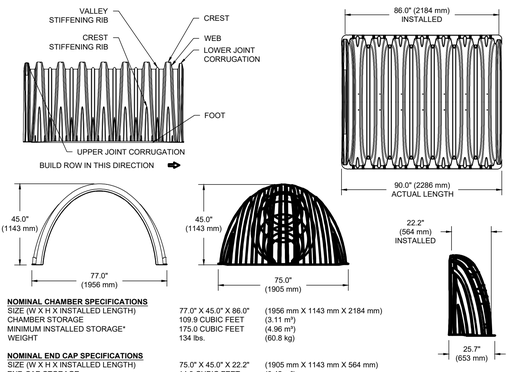
4 UNDERDRAIN
SCALE:N.T.S.



CHAMBER	MAX DIAMETER OF INSERTA TEE	HEIGHT FROM BASE OF CHAMBER (X)
SC-310	6" (150 mm)	4" (100 mm)
SC-740	10" (250 mm)	4" (100 mm)
DC-780	10" (250 mm)	4" (100 mm)
MC-3500	12" (300 mm)	6" (150 mm)
MC-4500	12" (300 mm)	8" (200 mm)

INSERTA TEE FITTINGS AVAILABLE FOR SDR 26, SDR 35, SCH 40 IPS GASKETED & SOLVENT WELD, N-12, HP STORM, C-900 OR DUCTILE IRON

NOTE:
PART NUMBERS WILL VARY BASED ON INLET PIPE MATERIALS. CONTACT STORMTECH FOR MORE INFORMATION.



NOMINAL CHAMBER SPECIFICATIONS

SIZE (W X H X INSTALLED LENGTH)	77.0" X 45.0" X 86.0"	(1956 mm X 1143 mm X 2184 mm)
CHAMBER STORAGE	109.9 CUBIC FEET	(3.11 m³)
MINIMUM INSTALLED STORAGE*	175.0 CUBIC FEET	(4.96 m³)
WEIGHT	134 lbs.	(60.8 kg)

NOMINAL END CAP SPECIFICATIONS

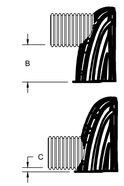
SIZE (W X H X INSTALLED LENGTH)	75.0" X 45.0" X 22.2"	(1905 mm X 1143 mm X 564 mm)
END CAP STORAGE	14.9 CUBIC FEET	(0.42 m³)
MINIMUM INSTALLED STORAGE*	45.1 CUBIC FEET	(1.28 m³)
WEIGHT	49 lbs.	(22.2 kg)

*ASSUMES 12" (305 mm) STONE ABOVE, 9" (229 mm) STONE FOUNDATION, 6" (152 mm) STONE BETWEEN CHAMBERS, 6" (152 mm) STONE PERIMETER IN FRONT OF END CAPS AND 40% STONE POROSITY.

PARTIAL CUT HOLES AT BOTTOM OF END CAP FOR PART NUMBERS ENDING WITH "B"
PARTIAL CUT HOLES AT TOP OF END CAP FOR PART NUMBERS ENDING WITH "T"
END CAPS WITH A PREFABRICATED WELDED STUB END WITH "W"
END CAPS WITH A WELDED CROWN PLATE END WITH "C"

PART #	STUB	B	C
MC3500IEPP06T	6" (150 mm)	33.21" (844 mm)	---
MC3500IEPP06B		---	0.65" (17 mm)
MC3500IEPP08T	8" (200 mm)	31.16" (791 mm)	
MC3500IEPP08B		---	0.81" (21 mm)
MC3500IEPP10T	10" (250 mm)	29.04" (738 mm)	---
MC3500IEPP10B		---	0.93" (24 mm)
MC3500IEPP12T	12" (300 mm)	26.36" (670 mm)	---
MC3500IEPP12B		---	1.35" (34 mm)
MC3500IEPP15T	15" (375 mm)	23.39" (594 mm)	---
MC3500IEPP15B		---	1.50" (38 mm)
MC3500IEPP18TC	18" (450 mm)	20.03" (509 mm)	---
MC3500IEPP18TW			
MC3500IEPP18BC		---	1.77" (45 mm)
MC3500IEPP18BW			
MC3500IEPP24TC	24" (600 mm)	14.48" (368 mm)	---
MC3500IEPP24TW			
MC3500IEPP24BC		---	2.06" (52 mm)
MC3500IEPP24BW			
MC3500IEPP30BC	30" (750 mm)	---	2.75" (70 mm)

NOTE: ALL DIMENSIONS ARE NOMINAL



CUSTOM PARTIAL CUT INVERTS ARE AVAILABLE UPON REQUEST. INVENTORIED MANIFOLDS INCLUDE 12-24" (300-600 mm) SIZE ON SIZE AND 15-48" (375-1200 mm) ECCENTRIC MANIFOLDS. CUSTOM INVERT LOCATIONS ON THE MC-3500 END CAP CUT IN THE FIELD ARE NOT RECOMMENDED FOR PIPE SIZES GREATER THAN 10" (250 mm). THE INVERT LOCATION IN COLUMN 'B' ARE THE HIGHEST POSSIBLE FOR THE PIPE SIZE.

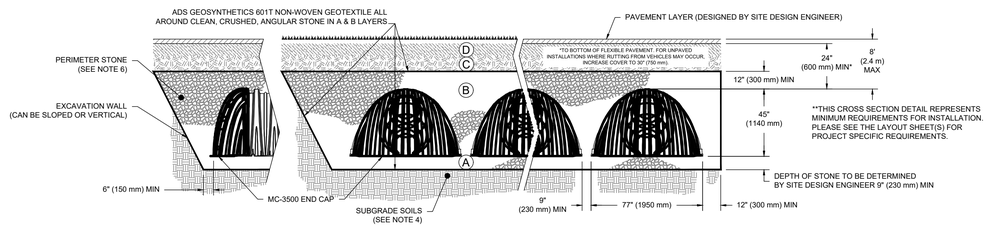
5 INSERTA-TEE SIDE INLET
SCALE:N.T.S.

6 TECHNICAL SPECIFICATIONS
SCALE:N.T.S.

ACCEPTABLE FILL MATERIALS: STORMTECH MC-3500 CHAMBER SYSTEMS

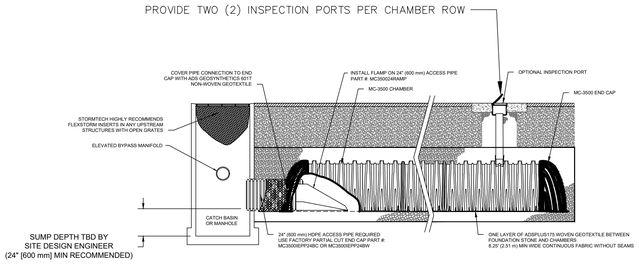
	MATERIAL LOCATION	DESCRIPTION	AASHTO MATERIAL CLASSIFICATIONS	COMPACTION / DENSITY REQUIREMENT
D	**FINAL FILL:** FILL MATERIAL FOR LAYER 'D' STARTS FROM THE TOP OF THE 'C' LAYER TO THE BOTTOM OF FLEXIBLE PAVEMENT OR UNPAVED FINISHED GRADE ABOVE. NOTE THAT PAVEMENT SUBBASE MAY BE PART OF THE 'D' LAYER	ANY SOIL/ROCK MATERIALS, NATIVE SOILS, OR PER ENGINEER'S PLANS. CHECK PLANS FOR PAVEMENT SUBGRADE REQUIREMENTS.	N/A	PREPARE PER SITE DESIGN ENGINEER'S PLANS. PAVED INSTALLATIONS MAY HAVE STRINGENT MATERIAL AND PREPARATION REQUIREMENTS.
C	**INITIAL FILL:** FILL MATERIAL FOR LAYER 'C' STARTS FROM THE TOP OF THE EMBEDMENT STONE ('B' LAYER) TO 24" (600 mm) ABOVE THE TOP OF THE CHAMBER. NOTE THAT PAVEMENT SUBBASE MAY BE A PART OF THE 'C' LAYER.	GRANULAR WELL-GRADED SOIL/AGGREGATE MIXTURES, <35% FINES OR PROCESSED AGGREGATE. MOST PAVEMENT SUBBASE MATERIALS CAN BE USED IN LIEU OF THIS LAYER.	AASHTO M145[1] A-1, A-2-4, A-3 OR AASHTO M43[1] 3, 357, 4, 467, 5, 56, 57, 6, 67, 68, 7, 78, 8, 89, 9, 10	BEGIN COMPACTIONS AFTER 24" (600 mm) OF MATERIAL OVER THE CHAMBERS IS REACHED. COMPACT ADDITIONAL LAYERS IN 12" (300 mm) MAX LIFTS TO A MIN. 95% PROCTOR DENSITY FOR WELL GRADED MATERIAL AND 95% RELATIVE DENSITY FOR PROCESSED AGGREGATE MATERIALS.
B	**EMBEDMENT STONE:** FILL SURROUNDING THE CHAMBERS FROM THE FOUNDATION STONE ('A' LAYER) TO THE 'C' LAYER ABOVE.	CLEAN, CRUSHED, ANGULAR STONE	AASHTO M43[1] 3, 4	NO COMPACTION REQUIRED.
A	**FOUNDATION STONE:** FILL BELOW CHAMBERS FROM THE SUBGRADE UP TO THE FOOT (BOTTOM) OF THE CHAMBER.	CLEAN, CRUSHED, ANGULAR STONE	AASHTO M43[1] 3, 4	PLATE COMPACT OR ROLL TO ACHIEVE A FLAT SURFACE.[2,3]

PLEASE NOTE:
1. THE LISTED AASHTO DESIGNATIONS ARE FOR GRADATIONS ONLY. THE STONE MUST ALSO BE CLEAN, CRUSHED, ANGULAR. FOR EXAMPLE, A SPECIFICATION FOR #4 STONE WOULD STATE: "CLEAN, CRUSHED, ANGULAR NO. 4 (AASHTO M43) STONE".
2. STORMTECH COMPACTION REQUIREMENTS ARE MET FOR 'A' LOCATION MATERIALS WHEN PLACED AND COMPACTED IN 9" (230 mm) (MAX) LIFTS USING TWO FULL COVERAGES WITH A VIBRATORY COMPACTOR.
3. WHERE INFILTRATION SURFACES MAY BE COMPROMISED BY COMPACTION, FOR STANDARD DESIGN LOAD CONDITIONS, A FLAT SURFACE MAY BE ACHIEVED BY RAKING OR DRAGGING WITHOUT COMPACTION EQUIPMENT. FOR SPECIAL LOAD DESIGNS, CONTACT STORMTECH FOR COMPACTION REQUIREMENTS.
4. ONCE LAYER 'C' IS PLACED, ANY SOIL/MATERIAL CAN BE PLACED IN LAYER 'D' UP TO THE FINISHED GRADE. MOST PAVEMENT SUBBASE SOILS CAN BE USED TO REPLACE THE MATERIAL REQUIREMENTS OF LAYER 'C' OR 'D' AT THE SITE DESIGN ENGINEER'S DISCRETION.



NOTES:

1. CHAMBERS SHALL MEET THE REQUIREMENTS OF ASTM F2418-16a, "STANDARD SPECIFICATION FOR POLYPROPYLENE (PP) CORRUGATED WALL STORMWATER COLLECTION CHAMBERS" CHAMBER CLASSIFICATION 45x76 DESIGNATION SS.
2. MC-3500 CHAMBERS SHALL BE DESIGNED IN ACCORDANCE WITH ASTM F2787 "STANDARD PRACTICE FOR STRUCTURAL DESIGN OF THERMOPLASTIC CORRUGATED WALL STORMWATER COLLECTION CHAMBERS".
3. THE SITE DESIGN ENGINEER IS RESPONSIBLE FOR ASSESSING THE BEARING RESISTANCE (ALLOWABLE BEARING CAPACITY) OF THE SUBGRADE SOILS AND THE DEPTH OF FOUNDATION STONE WITH CONSIDERATION FOR THE RANGE OF EXPECTED SOIL MOISTURE CONDITIONS.
4. PERIMETER STONE MUST BE EXTENDED HORIZONTALLY TO THE EXCAVATION WALL FOR BOTH VERTICAL AND SLOPED EXCAVATION WALLS.
5. REQUIREMENTS FOR HANDLING AND INSTALLATION:
   - TO MAINTAIN THE WIDTH OF CHAMBERS DURING SHIPPING AND HANDLING, CHAMBERS SHALL HAVE INTEGRAL, INTERLOCKING STACKING LUGS.
   - TO ENSURE A SECURE JOINT DURING INSTALLATION AND BACKFILL, THE HEIGHT OF THE CHAMBER JOINT SHALL NOT BE LESS THAN 3".
   - TO ENSURE THE INTEGRITY OF THE ARCH SHAPE DURING INSTALLATION, a) THE ARCH STIFFNESS CONSTANT AS DEFINED IN SECTION 6.2.8 OF ASTM F2418 SHALL BE GREATER THAN OR EQUAL TO 500 LBS/IN/IN. AND b) TO RESIST CHAMBER DEFORMATION DURING INSTALLATION AT ELEVATED TEMPERATURES (ABOVE 73° F / 23° C), CHAMBERS SHALL BE PRODUCED FROM REFLECTIVE GOLD OR YELLOW COLORS.



INSPECTION & MAINTENANCE

STEP 1) INSPECT ISOLATOR ROW PLUS FOR SEDIMENT
- A. INSPECTION PORTS (IF PRESENT)
  - A.1. REMOVE/OPEN LID ON NYLOPLAST INLINE DRAIN
  - A.2. REMOVE AND CLEAN FLEXSTORM FILTER IF INSTALLED
  - A.3. USING A FLASHLIGHT AND STADIA ROD, MEASURE DEPTH OF SEDIMENT AND RECORD ON MAINTENANCE LOG
  - A.4. LOWER A CAMERA INTO ISOLATOR ROW PLUS FOR VISUAL INSPECTION OF SEDIMENT LEVELS (OPTIONAL)
  - A.5. IF SEDIMENT IS AT, OR ABOVE, 3" (80 mm) PROCEED TO STEP 2. IF NOT, PROCEED TO STEP 3.
- B. ALL ISOLATOR PLUS ROWS
  - B.1. REMOVE COVER FROM STRUCTURE AT UPSTREAM END OF ISOLATOR ROW PLUS
  - B.2. USING A FLASHLIGHT, INSPECT DOWN THE ISOLATOR ROW PLUS THROUGH OUTLET PIPE
    - i) MIRRORS ON POLES OR CAMERAS MAY BE USED TO AVOID A CONFINED SPACE ENTRY
    - ii) FOLLOW OSHA REGULATIONS FOR CONFINED SPACE ENTRY IF ENTERING MANHOLE
  - B.3. IF SEDIMENT IS AT, OR ABOVE, 3" (80 mm) PROCEED TO STEP 2. IF NOT, PROCEED TO STEP 3.

STEP 2) CLEAN OUT ISOLATOR ROW PLUS USING THE JETVAC PROCESS
- A. A FIXED CULVERT CLEANING NOZZLE WITH REAR FACING SPREAD OF 45° (1.1 m) OR MORE IS PREFERRED
- B. APPLY MULTIPLE PASSES OF JETVAC UNTIL BACKFLUSH WATER IS CLEAN
- C. VACUUM STRUCTURE SUMP AS REQUIRED

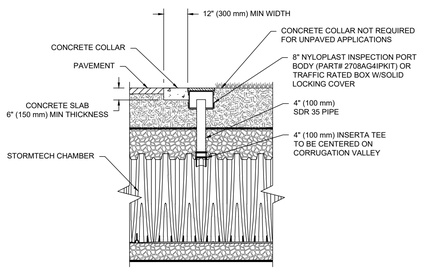
STEP 3) REPLACE ALL COVERS, GRATES, FILTERS, AND LIDS; RECORD OBSERVATIONS AND ACTIONS.

STEP 4) INSPECT AND CLEAN BASINS AND MANHOLES UPSTREAM OF THE STORMTECH SYSTEM.

NOTES

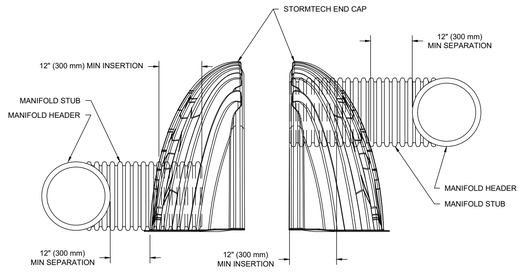
1. INSPECT EVERY 6 MONTHS DURING THE FIRST YEAR OF OPERATION. ADJUST THE INSPECTION INTERVAL BASED ON PREVIOUS OBSERVATIONS OF SEDIMENT ACCUMULATION AND HIGH WATER ELEVATIONS.
2. CONDUCT JETTING AND VACTORING ANNUALLY OR WHEN INSPECTION SHOWS THAT MAINTENANCE IS NECESSARY.

1 ISOLATOR ROW
SCALE:N.T.S.



NOTE:
INSPECTION PORTS MAY BE CONNECTED THROUGH ANY CHAMBER CORRUGATION VALLEY.

2 4-INCH PVC INSPECTION PORT
SCALE:N.T.S.



NOTE: MANIFOLD STUB MUST BE LAID HORIZONTAL FOR A PROPER FIT IN END CAP OPENING.

3 END CAP
SCALE:N.T.S.

7 STORMWATER INFILTRATION CHAMBERS - GALLERY
SCALE:N.T.S.

Project:
VILLAGE OF ARDSLEY, NY
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Seal:
STATE OF NEW YORK JEFFREY FRASER SUMNER 092480 PROFESSIONAL ENGINEER

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CONSTRUCTION DETAILS

Sheet Number:
C508

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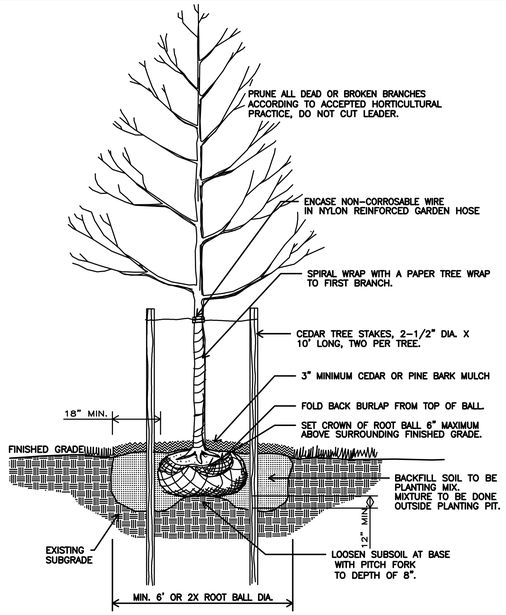
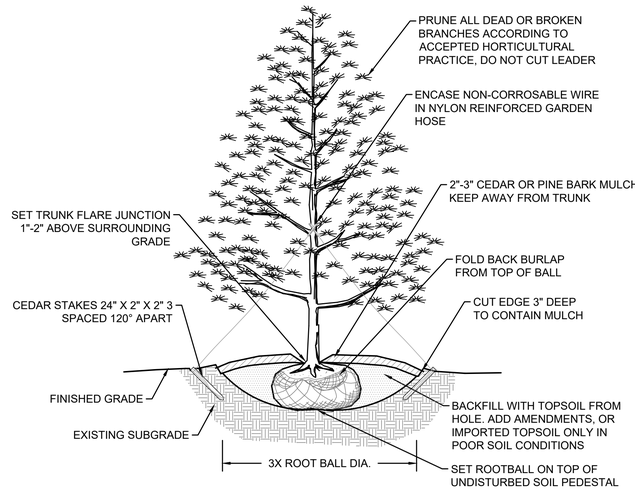
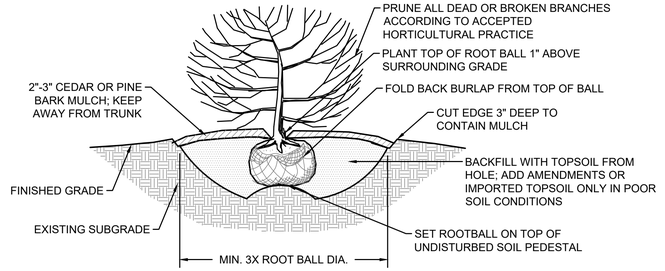


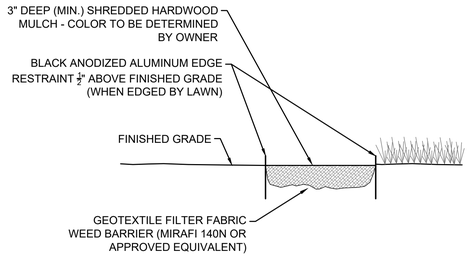
1 DECIDUOUS TREE PLANTING
SCALE:N.T.S.



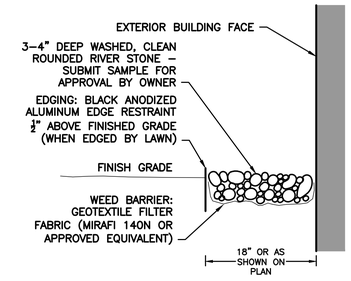
2 CONIFEROUS TREE PLANTING
SCALE:N.T.S.



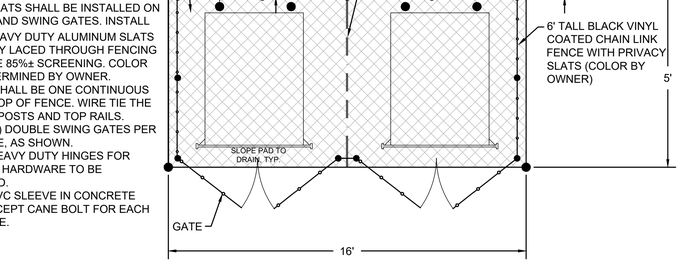
3 SHRUB PLANTING
SCALE:N.T.S.



4 WOOD MULCH
SCALE:N.T.S.



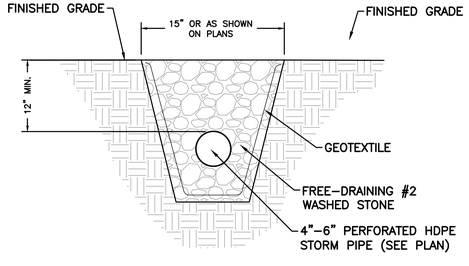
5 STONE MULCH
SCALE:N.T.S.



NOTES:

1. PRIVACY SLATS SHALL BE INSTALLED ON ALL SIDES AND SWING GATES. INSTALL 1¾" WIDE HEAVY DUTY ALUMINUM SLATS DIAGONALLY LACED THROUGH FENCING TO ACHIEVE 85%± SCREENING. COLOR TO BE DETERMINED BY OWNER.
2. 2" FABRIC SHALL BE ONE CONTINUOUS PIECE TO TOP OF FENCE. WIRE TIE THE FABRIC TO POSTS AND TOP RAILS.
3. PROVIDE (2) DOUBLE SWING GATES PER ENCLOSURE, AS SHOWN.
4. PROVIDE HEAVY DUTY HINGES FOR GATES. ALL HARDWARE TO BE GALVANIZED.
5. PROVIDE PVC SLEEVE IN CONCRETE PAD TO ACCEPT CANE BOLT FOR EACH SWING GATE.

6 DUMPSTER ENCLOSURE
SCALE:N.T.S.



7 UNDERDRAIN WITH STONE TO SURFACE
SCALE:N.T.S.

P:\NY\Ardsley, Village of\Ardsley DPW\CAD\Civil\03-Phase 2 SITEWORK\PAS\C509 CONSTRUCTION DETAILS.dwg

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CONSTRUCTION DETAILS

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ABBREVIATIONS:

A	
A/C	AIR CONDITION
AC	ACOUSTICAL
ACT	ACOUSTICAL CEILING TILE
ADJ	ADJACENT
AFF	ABOVE FINISH FLOOR
ALT	ALTERNATE
ALUM	ALUMINUM
ANC BLT	ANCHOR BOLT
ANOD	ANODIZED
APPROX	APPROXIMATE
ARCH	ARCHITECT
ARGB	ABUSE RESISTANT GYPSUM BOARD
ASPH	ASPHALT
AVB	AIR VAPOR BARRIER
B	
BC	BASE CABINET
BD	BOARD
BF	BRACE FRAME
BITUM	BITUMINOUS
BLDG	BUILDING
BLK	BLOCK
BLKG	BLOCKING
BM	BENCH MARK
BOF	BOTTOM OF FOOTING
BOS	BOTTOM OF STEEL
BOTT	BOTTOM
BPL	BEARING PLATE
BRG	BEARING
BRK	BRICK
BS	BRICK SHELF
BSMT	BASEMENT
BVL	BEVELED
C	
CAB	CABINET
CB	CEMENT BOARD / CATCH BASIN
CDM	CAVITY DRAINAGE MATERIAL
CF	CUBIC FEET
CH	CEILING HEIGHT
CIP	CAST IN PLACE
CJ	CONTROL JOINT
CL	CENTER LINE / COLUMN LINE
CL	CLOSET / CHAIN LINK
CLG	CEILING
CLOS	CLOSET
CLR	CLEAR
CMU	CONCRETE MASONRY UNIT
CNTR	COUNTER
CO	CASED OPENING
COL	COLUMN
COMP	COMPOSITION
CONC	CONCRETE
CONST	CONSTRUCTION
CONT	CONTINUOUS
CONTC	CONTRACTOR
CONV	CONVECTOR
COORD	COORDINATE
CORR	CORRIDOR
CPET	COMMON PATH OF EGRESS TRAVEL
CPT	CARPET
CT	CERAMIC TILE
CTR	CENTER
CW	COLD WATER
CWT	CERAMIC WALL TILE
CY	CUBIC YARD
D	
D	DRYER
D-PART	DEMOUNTABLE PARTITION
DBL	DOUBLE
DEMO	DEMOLITION
DF	DRINKING FOUNTAIN
DH	DOUBLE HUNG
DI	DRAIN INLET
DIA	DIAMETER
DIAG	DIAGONAL
DIM	DIMENSION
DIST	DISTANCE
DL	DRAIN LEADER
DN	DOWN
DR	DOOR
DS	DOWNSPOUT
DTL	DETAIL
DW	DISHWASHER
DWG	DRAWING
E	
EA	EACH
EF	EACH FACE
EIFS	EXTERIOR INSULATED FINISH SYSTEM
EJ	EXPANSION JOINT
EL	ELEVATION
ELEC	ELECTRIC
ELEV	ELEVATOR
EMER	EMERGENCY
ENCL	ENCLOSURE
EOC	EDGE OF CONCRETE
EP	ELECTRICAL PANEL
EQ	EQUAL
EQUIP	EQUIPMENT
ER	EXISTING TO REMAIN
ES	EXPOSED STRUCTURE
EW	EACH WAY
EXH	EXHAUST
EXIST	EXISTING
EXP	EXPANSION
EXT	EXTERIOR

F	
FA	FIRE ALARM
FAAP	FIRE ALARM ANNUNCIATOR PANEL
FACP	FIRE ALARM CONTROL PANEL
FAK	FIRST AID KIT
FB	FIRE BLANKET
FC	FILE CABINET
FD	FLOOR DRAIN
FE	FIRE EXTINGUISHER
FEC	FIRE EXTINGUISHER CABINET
FF	FINISH FLOOR
FFE	FINISH FLOOR ELEVATION
FG	FIBERGLASS
FIN	FINISH
FLASH	FLASHING
FLR	FLOOR
FLUOR	FLUORESCENT
FOC	FACE OF CONCRETE
FOF	FACE OF FINISH
FOM	FACE OF MASONRY
FOS	FACE OF STUD
FNDN	FOUNDATION
FP	FIREPROOF(ING)
FR	FIRE RETARDANT
FRP	FIBERGLASS REINFORCED WALL PANEL
FRTW	FIRE RETARDANT TREATED WOOD
FSB	FILED SUB BID
FT	FEET
FTG	FOOTING
FUR	FURRING
G	
GA	GAUGE
GALV	GALVANIZED
GB	GRAB BAR
GC	GENERAL CONTRACTOR
GDRL	GUARD RAIL
GL	GLASS
GLAZ	GLAZED BLOCK
GLB	GLASS BLOCK
GN	GOOSENECK
GRT	GROUT
GWB	GYPSUM WALL BOARD
H	
HB	HOSE BIB
HC	HANDICAP
HD	HEAVY DUTY
HDWR	HARDWARE
HM	HOLLOW METAL
HOR	HORIZONTAL
HP	HIGH POINT
HT	HEIGHT
HTR	HEATER
HVAC	HEATING, VENTILATING, & AIR CONDITIONING
HW	HOT WATER
I	
ID	INSIDE DIAMETER
IN	INCH
INCL	INCLUDED
INFO	INFORMATION
INSUL	INSULATION
INT	INTERIOR
INV	INVERT
IRGWB	IMPACT-RESISTANT GWB
J	
JAN	JANITOR
JST	JOIST
JT	JOINT
K	
KD	KNOCK-DOWN
KIP	1,000 LBS
KO	KNOCKOUT
KPLT	KICKPLATE
L	
L	LENGTH
LAM	LAMINATE
LAV	LAVATORY
LBL	LABEL
LC	LEAD COATED
LCC	LEAD COATED COPPER
LGMF	LIGHT-GAUGE METAL FRAMING
LIN	LINOLEUM
LLH	LONG LEG HORIZONTAL
LLV	LONG LEG VERTICAL
LP	LOW POINT
LSC	LIFE SAFETY CODE
LT	LIGHT
M	
M	METER
MANUF	MANUFACTURER
MAS	MASONRY
MAT	MATERIAL
MAX	MAXIMUM
MB	MOSITURE BARRIER
MBL	MARBLE
MBR	MEMBER
MC	MEDICINE CABINET
MDF	MEDIUM DENSITY FIBERBOARD
MDO	MEDIUM DENSITY OVERLAY
MECH	MECHANICAL
MFR	MANUFACTURER
MH	MANHOLE

MIN	MINIMUM
MIR	MIRROR
MISC	MISCELLANEOUS
ML	MATCH LINE
MLDG	MOULDING
MO	MASONRY OPENING
MOD	MODULAR
MR	MOISTURE RESISTANT
MRGB	MOISTURE RESISTANT GYPSUM BOARD
MS	METAL STUD
MTD	MOUNTED
MTL	METAL
MTP	METAL TOILET PARTITION
N	
N/A	NOT APPLICABLE
NAT	NATURAL
NIC	NOT IN CONTRACT
NO	NUMBER
NOM	NOMINAL
NTS	NOT TO SCALE
NUM	NUMBER
NW	NEW
O	
OA	OVERALL
OC	ON CENTER
OD	OUTSIDE DIAMETER
OH	OVERHEAD DOOR
OPNG	OPENING
OPP	OPPOSITE
OPPHAND	OPPOSITE HAND
OSB	ORIENTED STRAND BOARD
OTS	OPEN TO STRUCTURE
OW	OPERABLE WALL
OZ	OUNCE
P	
PART BD	PARTICLE BOARD
PAV	PAVING
PCP	PRECAST CONCRETE PLANK
PERIM	PERIMETER
PL	PROPERTY LINE / PLATE
PLAM	PLASTIC LAMINATE
PLAS	PLASTIC
PLY	PLYWOOD
PMJF	PRE-MOLDED JOINT FILLER
PNT	PAINT
PR	PAIR
PREFIN	PREFINISHED
PRFB	POURED RESIN FLOOR BASE
PSF	POUNDS PER SQUARE FOOT
PSI	POUNDS PER SQUARE INCH
PT	PRESSURE TREATED
PTD	PAPER TOWEL DISPENSER
PTD	PAINTED
PTN	PARTITION
PVC	POLYVINYL CHLORIDE
PVMT	PAVEMENT
Q	
QT	QUARRY TILE
R	
R	RISER
R & D	REMOVE & DISPOSE
R & R	REMOVE AND REPLACE
R & S	REMOVE AND SALVAGE
RAD	RADIUS
RCP	REFLECTED CEILING PLAN
RD	ROOF DRAIN
REF	REFRIGERATOR
REFURB	REFURBISH
REINF	REINFORCEMENT
RELOC	RELOCATED
REM	REMOTE
REQ'D	REQUIRED
RES	RESILIENT
REV	REVISION
RFG	ROOFING
RFI	RIGID FOAM INSULATION
RFS	RESINOUS FLOOR SYSTEM
RH	RIGHT HAND
RL	ROOF LADDER
RM	RUBBER MAT
RM	ROOM
RO	ROUGH OPENING
RT	RUBBER TILE
RTU	ROOF TOP UNIT
RUB	RUBBER
S	
S	SEALANT
S.L.	STRUCTURAL LINE
SACI	SPRAY-APPLIED CELLULOSE INSULATION
SACP	SECURITY ALARM CONTROL PANEL
SAFI	SPRAY-APPLIED FOAM INSULATION
SCHED	SCHEDULE
SCR	SHOWER CURTAIN ROD
SCW	SOLID CORE WOOD
SD	SOAP DISPENSER
SECT	SECTION
SF	SQUARE FEET
SH	SINGLE HUNG
SHR	SHOWER
SIM	SIMILAR
SND	SANITARY NAPKIN DISPENSER
SNV	SANITARY NAPIKIN VENDOR
SOLSUR	SOLID SURFACE (COUNTER)

SPC	SPECIAL
SPEC	SPECIFICATION
SQ	SQUARE
SR	SHEET RUBBER
SS	STAINLESS STEEL
STD	STANDARD
STL	STEEL
STOR	STORAGE
STRUCT	STRUCTURE OR STRUCTURAL
SUSP	SUSPENDED or SUSPENSION
SV	SHEET VINYL
SYS	SYSTEM(S)
T	
T & B	TOP AND BOTTOM
T & G	TONGUE AND GROOVE
TB	TRASH BARREL
TBA	TO BE ABANDONED
TBB	TILE BACKER BOARD
TBD	TO BE DETERMINED
TBOC	TOP BACK OF CURB
TEL	TELEPHONE
TEMP	TEMPORARY
THK	THICK(NESS)
THRESH	THRESHOLD
TOC	TOP OF CONCRETE
TOF	TOP OF FOOTING
TOL	TOP OF LANDING
TOP	TOP OF PLATE
TOS	TOP OF STEEL
TOW	TOP OF WALL
TP	TRANSLUCENT PANEL
TR	TREAD
TS	TUBULAR STEEL
TTD	TOILET TISSUE DISPENSER
TW	TO WEATHER
TYP	TYPICAL
U	
UC	UNDERCUT
UG	UNDERGROUND
UND	UNDERSIDE (OF DECK)
UNFIN	UNFINISHED
UNO	UNLESS NOTED OTHERWISE
UV	UNIT VENTILATOR
V	
VB	VINYL BASE / VAPOR BARRIER
VCT	VINYL COMPOSITION TILE
VERT	VERTICAL
VEST	VESTIBULE
VIF	VERIFY IN FIELD
VPD	VENEER PLASTER BASE
VS	VENT STACK
VT	VINYL TREAD
VTS	VINYL TRANSITION STRIP
VWB	VINYL WALL BASE
VWC	VINYL WALL COVERING
W	
W	WASHER
W/	WITH
W/O	WITHOUT
WB	WOOD BASE
WC	WALL CABINET
WD	WOOD
WDC	WATERPROOFING, DAMPPROOFING, & CAULKING CONTRACTOR
WF	WIRE FABRIC
WG	WIRE GLASS
WH	WALL HUNG
WIN	WINDOW
WP	WATER PROTECTION
WP'G	WATERPROOF(ING)
WR	WATER RESISTANT
WS	WATER STOP
WT	WEIGHT
WWF	WELDED WIRE FABRIC

SYMBOLS

EXTERIOR ELEVATION

INTERIOR ELEVATION

BUILDING SECTION

WALL SECTION

DETAIL

EXTERIOR WALL ASSEMBLY

PARTITION TYPE

DOOR TYPE or VISION PANEL (VP)

WINDOW TYPE

ROOF TYPE

SPECIFIC DEMOLITION NOTE

SPECIFIC CONSTRUCTION NOTE

CHANGE IN PLANE

LEADER

DIMENSION

CHANGE IN ELEVATION

CONTROL JOINT

ELEVATION or WORK POINT (WP)

COLUMN GRID

ALIGN SURFACES

REVISION MARKER

ROOM TAG

DRAWING TITLE (ORIGINAL TAG REFERENCE LOCATED NEXT TO SCALE)

MATCHLINE

BATT INSULATION / SOUND ATTENUATION BLANKET

RIGID/SEMI-RIGID INSULATION

CONCRETE

SAND / P.C. CONCRETE

PARTICLE BOARD/MDF

PLYWOOD/MDO

FINISH WOOD

ALUMINUM

STEEL

PVC

CONCRETE MASONRY UNIT

EARTH

GRAVEL

WOOD STUDS/FRAMING (DIMENSIONAL LUMBER)

WOOD BLOCKING

INSULATED METAL PANEL

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VILLAGE OF ARDSLEY

NEW PUBLIC WORKS FACILITY

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REGISTERED ARCHITECT JOHN JOSEPH SARGENT STATE OF NEW YORK 022726

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Reviewed By:	JS
Approved By:	BG/JS
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ABBREVIATIONS, SYMBOLS, LEGEND AND GENERAL NOTES

Sheet Number:

A001

GENERAL NOTES

1. COORDINATE THE ARCHITECTURAL DRAWINGS WITH STRUCTURAL, PLUMBING, FIRE PROTECTION, MECHANICAL, AND ELECTRICAL / FIRE ALARM DRAWINGS FOR THE VERIFICATION OF ALL PROJECT REQUIREMENTS.

2. FINISH FIRST FLOOR SLAB ELEVATION HIGH POINT IS 275.00' FOR THIS PROJECT.

3. ALL INTERIOR DIMENSIONS ARE TAKEN FROM FACE OF STUD TO FACE OF STUD / FACE OF MASONRY UNLESS SPECIFICALLY NOTED OTHERWISE. DO NOT SCALE DRAWINGS. REFER TO ENLARGED PLANS AND DETAILS FOR FURTHER DIMENSIONING INFORMATION. ALL WORK LINES AND LEVELS SHALL BE LAID OUT BY WRITTEN DIMENSIONS. ANY DEVIATIONS SHALL BE BROUGHT TO THE ATTENTION OF THE DESIGNER. ALL DEVIATIONS AND DISCREPANCIES SHALL BE CORRECTED BY THE CONTRACTOR BEFORE HE BEGINS HIS PORTION OF THE WORK.

4. FIRE EXTINGUISHER AND CABINET QUANTITIES AND LOCATIONS TO BE COORDINATED WITH THE TOWN FIRE DEPARTMENT PRIOR TO ORDERING AND INSTALLATION. CONFORM TO THE STATE FIRE REGS AND NFPA.

5. COORDINATE MASTER BOX, KNOX BOX, AND BEACON LOCATIONS WITH THE ELECTRICAL / FIRE ALARM DRAWINGS AND THE TOWN FIRE DEPARTMENT REQUIREMENTS. ELECTRICAL CONTRACTOR TO PROVIDE KNOX BOX THAT MEET THE TOWN FIRE DEPARTMENT REQUIREMENTS.

6. THE CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS & CONDITIONS PRIOR TO THE WORK AND SHALL NOTIFY THE DESIGNER REGARDING ANY DISCREPANCIES.

7. THE CONTRACTOR SHALL SUBMIT ALL SHOP DRAWINGS, SAMPLES, CATALOG CUTS ECT., INCLUDING COLOR CHARTS FOR PAINTS, FOR ALL INTERIOR FINISHES, TO THE DESIGNER FOR SELECTION, REVIEW AND APPROVAL WITH THE OWNER PRIOR TO FABRICATION OR INSTALLATION. THE COLORS MUST BE SUBMITTED IN A TIMELY MANNER AND TOGETHER FOR REVIEW AND COLOR BOARDS. FAILURE TO DO SO IN A TIMELY MANNER WILL FALL ON THE CONTRACTOR'S RESPONSIBILITY AND NOT ON THE OWNER. REFER TO EACH INDIVIDUAL SPECIFICATIONS FOR SIZE, QUANTITY AND TYPE OF COLOR SELECTION.

8. PERFORM ALL WORK IN ACCORDANCE WITH THE STATE BUILDING CODE, AS WELL AS LOCAL CODES AND ORDINANCES.

9. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL PERMITS, BACKCHARGES AND FEES AS REQUIRED BY THE VILLAGE.

10. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DAILY REMOVAL AND LEGAL DISPOSAL OF ALL DEBRIS OFF SITE.

11. THE CONTRACTOR SHALL SEAL ALL THROUGH-WALL & FLOOR PENETRATIONS WITH 3M BARRIER CAULK (O.A.E.) AND SEALANT ON USG SAFING 2500 PSI GROUT. U.N.O. INSTALL ANY REQUIRED FIRE RATED PARTITIONS TO UNDERSIDE OF FLOOR AND ROOF DECK, INCLUDING DEFLECTION HEAD FIRE SAFING.

12. INSTALL A CONTINUOUS SEALANT BEAD ON BACKER ROD AT ALL JUNCTURES OF DISSIMILAR MATERIALS (E.G.: METAL TO CMU, STEEL TO ALUMINUM) AND ALL MATERIAL JOINTS AS REQUIRED BY THE MANUFACTURER'S SPECIFICATION AND RECOMMENDATIONS, INDUSTRY STANDARDS AND GOOD PRACTICE.

13. PROVIDE CONTINUOUS GALVANIZED METAL EDGE TRIM AT ALL GWB WORK.

14. THE CONTRACTOR SHALL INSTALL ALL INTERIOR FINISHES AT ALL SURFACES INDICATED ON THE DRAWINGS IN CONFORMANCE TO STATE BUILDING CODE.

15. INSTALL USG .093 (OR APPROVED EQUAL) CONTROL JOINTS AT 30'-0" O.C. MAX. OR AS PER MANUFACTURER'S SUGGESTED DETAILS AND SPECIFICATIONS.

16. THE CONTRACTOR IS RESPONSIBLE FOR PROVIDING A GAP FILLING SYSTEM OR OTHER SYSTEM WHICH SPANS ANY GAP IN THE EXTERIOR WALL SYSTEM WHICH DOES NOT MEET THE MAXIMUM SPAN OF THE APPROVED AIR BARRIER MEMBRANE SYSTEM. THIS SYSTEM SHALL BE PROVIDED TO ALLOW FOR A COMPLETE AIR BARRIER MEMBRANE INSTALLATION. THE SYSTEM SHALL BE COMPATIBLE WITH THE APPROVED AIR BARRIER PRODUCT AND SHALL BE APPROVED BY THE DESIGNER PRIOR TO INSTALLATION.

17. THE ELECTRICAL CONTRACTOR SHALL PROVIDE DISCONNECT SWITCHES, STARTERS AND ALL LINE VOLTAGE WIRING AND CONDUIT TO OH DOOR OPERATORS. THE HAND-OFF-AUTO SWITCH, PUSH BUTTON CONTROL STATION (MOMENTARY UP-STOP-DOWN) AND CONTROLLER IS FURNISHED BY THE OVERHEAD DOOR MANUFACTURER AND INSTALLED BY THE ELECTRICAL CONTRACTOR. THE ELECTRICAL CONTRACTOR IS TO PROVIDE CONDUIT AND WIRING BETWEEN THE HAND-OFF-AUTO SWITCH, THE PUSH BUTTON CONTROL STATION AND CONTROLLER PER OVERHEAD DOOR MANUFACTURER REQUIREMENTS. FURNISHING AND INSTALLATION OF THE MOTOR UNIT, OPTICAL SENSORS, PNEUMATIC DOOR SAFETY BOTTOM, LOW VOLTAGE WIRING AND ALL OTHER ACCESSORIES ASSOCIATED WITH THE OVERHEAD DOORS SHALL BE THE RESPONSIBILITY OF THE OVERHEAD DOOR CONTRACTOR.

18. ALL STRUCTURAL ELEMENTS WHICH PASS IN FRONT OF WINDOWS / CLERESTORIES SHALL BE BACK PAINTED.

19. ALL STRUCTURAL ELEMENTS SHOWN ON THE ARCHITECTURAL DRAWINGS ARE FOR INFORMATION ONLY. REFER TO STRUCTURAL DRAWINGS FOR APPROXIMATE SIZES AND LOCATION OF STRUCTURAL ELEMENTS.

20. THE CONTRACTOR SHALL PROVIDE SUPPLEMENTAL FRAMING AND OR BLOCKING AS NECESSARY TO SUPPORT ALL EXTERIOR WALL MOUNTED ELEMENTS.

21. ALL OPENINGS IN EXTERIOR WALLS FOR PLUMBING, FIRE PROTECTION, MECHANICAL, AND ELECTRICAL / FIRE ALARM SYSTEMS SHALL BE SEALED WEATHER-TIGHT BY THE CONTRACTOR. CONTRACTOR TO PROVIDE FIRE RATED SEALANTS AS REQUIRED AT FIRE RATED WALL, FLOOR, CEILING, AND ROOF ASSEMBLIES.

22. THE CONTRACTOR IS TO FIELD MEASURE OH DOOR OPENINGS TO ENSURE PROPER FIT OF OH DOORS.

23. ALL EXPOSED SURFACES (INCLUDING, BUT NOT LIMITED TO; WALLS, UNDERSIDE OF EXPOSED ROOF AND FLOOR DECK, STRUCTURAL STEEL, MISCELLANEOUS METALS, DOORS/FRAMES, DUCTWORK, CONDUIT, AND PIPING) SHALL BE PRIMED AND PAINTED.

24. BLOCKING SHALL BE PROVIDED FOR ALL WALL MOUNTED EQUIPMENT (INCLUDING, BUT NOT LIMITED TO; PLUMBING FIXTURES, TOILET ACCESSORIES, UTILITY SINKS, FIRE EXTINGUISHER CABINETS, SHELVING, COUNTERS, CASEWORK, CABINETS, MEDIA EQUIPMENT, AND WINDOW TREATMENTS). PROVIDE ADDITIONAL METAL STUD FRAMING AS REQUIRED TO SUPPORT BLOCKING.

25. THE AIR BARRIER MEMBRANE (ABM) SHALL BE CONTINUOUS THROUGH THE BUILDING ENVELOPE AND BETWEEN THE WALL AND ROOF SYSTEMS INSTALLED ON THE WINTER WARM SIDE OF THE INSULATION. OPENINGS AND PENETRATIONS IN THE BUILDING ENVELOPE SHALL BE SEALED WITH SEALANT MATERIALS OR CLOSED WITH GASKETING SYSTEMS WHICH IS COMPATIBLE WITH THE ABM SYSTEM AND MEETS THE PERFORMANCE REQUIREMENTS IN THE SPEC. SYSTEM SHALL BE COMPATIBLE WITH THE CONSTRUCTION MATERIALS AND LOCATION. JOINTS AND SEAMS SHALL BE SEALED IN THE SAME MANNER OR TAPED OR COVERED WITH A MOISTURE VAPOR-PERMEABLE WRAPPING MATERIAL. SEALING MATERIALS SPANNING JOINTS BETWEEN CONSTRUCTION MATERIALS SHALL ALLOW FOR EXPANSION AND CONTRACTION OF THE CONSTRUCTION MATERIALS. AT ALL OH DOOR JAMBS AND HEADERS, THE ABM SHALL TERMINATE AT THE STEEL FACE WHERE THE INSULATION ABUTS STEEL FRAMED OPENINGS. TERMINATE ABM ON THE INSIDE FACE OF EXTERIOR WALL SYSTEM AT DOORS, WINDOWS, LOUVERS, AND CLERESTORIES. THE TERMS VAPOR RETARDER, AND AIR MOISTURE BARRIER ARE SYNONYMOUS WITH ABM.

26. METAL BUILDING SYSTEM SHALL BE A SINGLE SOURCE MANUFACTURED SYSTEM. ALL ACCESSORIES, NOT LIMITED TO; PRIMARY FRAMING, WALLS, ROOF INSULATION, EXTRUSIONS, TRIMS, FASTENERS, GASKETS, SUBGIRT FRAMING, ECT SHALL BE PROVIDED BY THE METAL BUILDING SYSTEM MANUFACTURER.

27. ALL WALL/PARAPET FLASHING SHALL TERMINATE WITH A MINIMUM 8" VERTICAL LEG TO ALLOW FOR PROPER INTERFACE WITH THE ABM. ABM SHALL BE INSTALLED BEHIND FLASHING AND THE FLASHING SHALL BE INTEGRATED INTO THE ABM SYSTEM USING A SELF-ADHERED MEMBRANE FLASHING WITH MINIMUM OVERLAP REQUIREMENTS PER MANUFACTURER.

28. ALL EXTERIOR AND INTERIOR MATERIAL SURFACE COLOR AND TEXTURES SHALL BE SELECTED BY THE DESIGNER FROM THE MANUFACTURES STANDARD & PREMIUM FINISH / COLOR SELECTIONS. ONCE ALL COLORS HAVE BEEN SUBMITTED, THE OWNER WILL REVIEW AND PROVIDE GUIDANCE ON COLORS FOR INCLUSION IN THE MOCK-UP REFERENCED IN DIVISION 1 OF THE SPECIFICATIONS.

29. DETAILS AND NOTES SHOWN ON THE ARCHITECTURAL DRAWINGS SHALL BE APPLICABLE TO ALL PARTS OF THE ARCHITECTURAL WORK EXCEPT WHERE SPECIFICALLY REQUIRED OTHERWISE BY THE CONTRACT DOCUMENTS. CONDITIONS NOT SPECIFICALLY SHOWN SHALL BE SIMILAR TO THOSE SHOWN FOR LIKE CONDITIONS AS DETERMINED BY THE DESIGNER.

30. PROVIDE ALL ACCESSIBLE FIXTURES, CONTROLS & ACCESSORIES, AND APPROPRIATE CLEARANCES, AS REQUIRED FOR COMPLIANCE W/ STATE BUILDING CODE W/ ALL AMENDMENTS, TYP.

31. SEALANT DEPTH AT ALL EXTERIOR OPENINGS SHALL BE EQUAL TO THE WIDTH OF THE JOINT.

32. THE CONTRACTOR TO PROVIDE CANE PROTECTION AT ALL PANELS IN EGRESS PATHS (AS DETERMINED BY THE DESIGNER) WHICH EXTEND 4" OR MORE FROM FACE OF WALL AND ARE GREATER THAN 27" ABOVE FINISHED FLOOR.

33. ALL NOTES AND DIMENSIONS DESIGNATED "TYPICAL" APPLY TO ALL LIKE OR SIMILAR CONDITIONS THROUGHOUT THE PROJECT.

34. SIGNAGE TO BE MOUNTED ON THE WALL, ADJACENT TO THE LEVER SIDE OF THE DOOR, AT A HEIGHT OF FIVE (5) FEET A.F.F. REFER TO THE FLOOR PLANS FOR LOCATIONS OF DIRECTIONAL SIGNAGE.

35. CONTRACTOR(S) TO TAKE AND VERIFY ALL DIMENSIONS AND CONDITIONS OF THE WORK AND BE RESPONSIBLE FOR COORDINATION OF THE SAME. FIELD VERIFY ALL EXISTING CONDITIONS PRIOR TO START OF WORK.

36. GENERAL CONTRACTOR TO PROVIDE EXCAVATION & TRENCHING AT ALL UNDERGROUND UTILITIES IN EXISTING AND NEW BUILDINGS AS REQUIRED FOR MEP/FP UTILITIES AND COORDINATION. REFER TO MEP / FP DRAWINGS FOR OVERALL REQUIREMENTS. GENERAL CONTRACTOR TO COORDINATE INVERTS AND COMPACT ALL MATERIALS FOR PLACEMENT OF CONCRETE SLAB INFILL IN ACCORDANCE WITH ASTM D1557. GC TO PROVIDE SOIL COMPACTION, DOWELS, WWF MESH, VAPOR RETARDER AND TIE-INS, CONCRETE PLACEMENT AND ALL REQUIREMENTS TO CLOSE UP TRENCH ONCE MEP/FP SUB-TRADE WORK IS COMPLETE.

37. PROVIDE AN PAINTED ACCENT WALL AT ALL ROOMS. ARCHITECT / ENGINEER TO PROVIDE LOCATION DURING CONSTRUCTION FOR ACCENT WALL IF NOT IDENTIFIED ON PROJECT PLANS.

FINISH NOTES

1. FINISH PLANS ARE TO BE READ IN CONJUNCTION WITH THE FINISH SCHEDULE. SHOULD THERE BE ANY DISCREPANCY BETWEEN INFORMATION GIVEN ON THE FINISH/COLOR SCHEDULE AND ANY OTHER DRAWINGS OR SPECIFICATIONS, PROVIDE THE HIGHER QUALITY FINISH.

2. REFER TO REFLECTED CEILING PLANS FOR CEILING TYPES AND HEIGHTS.

3. REFER TO THE FINISH LEGEND AND FINISH FLOOR PLANS FOR DEFINITION, PATTERNS AND EXTENT OF COLORS USED.

4. IN AREAS DESIGNATED WITH NEW CONCRETE FLOORS, PAINT MASONRY WALLS DOWN TO THE FLOOR WHERE NO RUBBER BASE IS PROVIDED. WHERE NO SUSPENDED CEILING IS INSTALLED, WALLS ARE TO BE PAINTED UP TO DECK.

5. PROVIDE THE INTERIOR OF ALL SPACES DESIGNATED "CLOSET" WITH ROD AND SHELF. UNLESS OTHERWISE DESIGNATED TO RECEIVE ADJUSTABLE SHELVES ON STANDARDS SPANNING THE WIDTH OF THE CLOSET.

6. ALL NEW GYPSUM BOARD SOFFITS AND CEILING SHOWN ON REFLECTED CEILING PLANS TO BE PAINTED. REFER TO FINISH NOTES FOR COLOR DESIGNATIONS.

7. ALL NEW HOLLOW METAL FRAMES TO BE PAINTED.

8. ALL NEW STAIR STRINGERS AND RAILINGS TO BE PAINTED.

9. AT ALL WALLS DESIGNATED TO RECEIVE TILED FINISH, TILE BACKING PANELS SHALL BE INSTALLED BEHIND ALL TILED AREAS.

10. ALL EXPOSED TO VIEW CONCRETE ON VERTICAL SURFACES TO RECEIVE SMOOTH FORMED FINISH, CLASS "A".

11. INSTALL VINYL TRANSITION STRIPS AT ALL FLOOR FINISH TRANSITIONS.

TYPICAL DEVICE MOUNTING HEIGHTS

ELECTRICAL EQUIPMENT MOUNTING HEIGHT DIMENSIONS ARE TO CENTER OF DEVICE UNLESS OTHERWISE NOTED:

- RECEPTACLES: 18" A.F.F. AT LOCATIONS ABOVE CASEWORK, MOUNT BOTTOM OF RECEPTACLE AT 2" ABOVE BACKSPLASH. AT LOCATIONS BELOW CASEWORK, MOUNT AT 24" A.F.F.
- EXTERIOR RECEPTACLES: 24" A.F.F.
- SWITCHES: 48" A.F.F.
- BOILER EMERGENCY SWITCH: 60" A.F.F.
- DATA/PHONE OUTLETS: 18" A.F.F.
- WALL MOUNTED CLOCKS AND SPEAKERS. COORDINATE LOCATION ABOVE DOOR WITH CEILING HEIGHT. IF THE CLOCK AND SPEAKER DO NOT FIT, PLACE AT 7'-6" A.F.F. NEXT TO DOOR. COORDINATE WITH BLOCK COURSING AS OCCURS. CONSULT DESIGNER IF CONDITIONS DIFFER.
- FIRE ALARM PULL STATIONS: 48" A.F.F.
- AREA OF REFUGE CALL STATION: 48" A.F.F.
- EMERGENCY SHUT-OFF SWITCH/PUSH BUTTON: 48" A.F.F.
- EMERGENCY CALL SWITCH: 36" A.F.F.
- EMERGENCY CALL BELL/LIGHT: 7'-6" A.F.F.
- FIRE ALARM VISUAL/AUDIO INDICATING UNITS: 6'-8" TO BOTTOM OF DEVICE.
- WALL MOUNTED EXIT SIGNS: 8" ABOVE DOOR OR 7'-6" A.F.F.

DOOR HARDWARE MOUNTING HEIGHT DIMENSIONS ARE TO CENTER OF HARDWARE:

- PULL: 42"
- PUSH PLATE: 45"

MINIMUM ENVELOPE CLEARANCE

DESCRIPTION	LOCATION	MIN CLEARANCE FROM FF TO ANY STRUCTURE OR SYSTEM
WASH BAY	OPERATIONS BUILDING	23' - 0"
VEHICLE MAINTENANCE	OPERATIONS BUILDING	23' - 0"
VEHICLE STORAGE	OPERATIONS BUILDING	19' - 8"
VEHICLE STOR. AT MEZZ.	OPERATIONS BUILDING	7' - 0"
SHOP AREAS	OPERATIONS BUILDING	19' - 0"

THIS IS A LIST OF MINIMUM CLEARANCE ENVELOPES FOR THE MAINTENANCE, MATERIAL STORAGE, WORKSHOPS, VEHICLE STORAGE AND WASH BAY AREAS. ALL STRUCTURE AND SYSTEMS LOCATED IN THESE AREAS MUST BE INSTALLED ABOVE THESE LIMITS UNLESS NOTED OTHERWISE OR APPROVED BY ENGINEER.

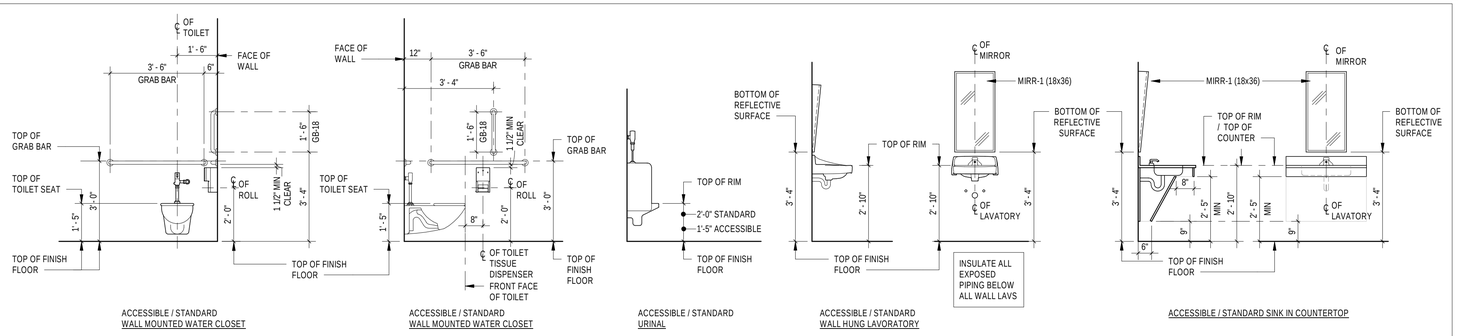
NOTE MECHANICAL DUCTWORK DROPS (VERTICAL LEG) TO FLOOR FOR EXHAUST ARE NOT SUBJECT TO THIS TABLE.

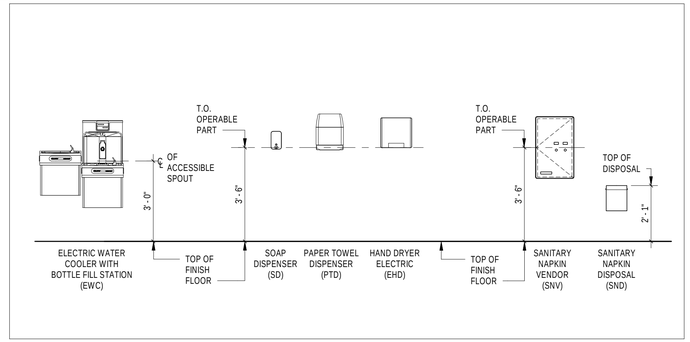
TOILET ROOM GENERAL NOTES:

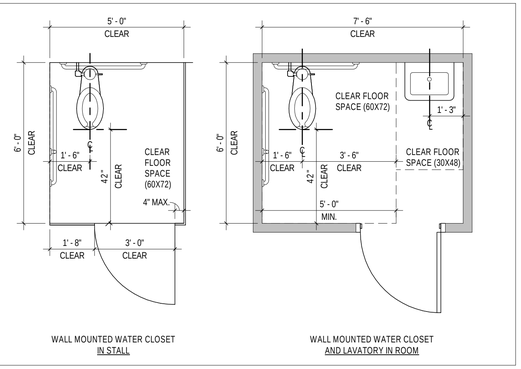
1. PROVIDE METAL EDGE TRIM PERIMETER AND CEMENTITIOUS TILE BACK BOARD, CEMENT BOARD, AT ALL CERAMIC TILE LOCATIONS, TYPICAL.
2. PROVIDE CONT. BLOCKING AT SHELVING, ACCESS PANELS, DISPLAY MONITORS, MARKER BOARDS ETC. COORDINATE LOCATION IN FIELD.
3. MOISTURE RESISTANT (MR) GYPSUM BOARD TO BE USED IN ALL TOILET ROOM / RESTROOM FACILITIES.
4. PROVIDE PVC SHIMS AS NECESSARY TO MAKE TOILET ROOM ACCESSORIES SUCH AS PTD'S, MIRRORS, SD'S, TOILET PARTITIONS, ETC., FLUSH ON FINISHED WALL.

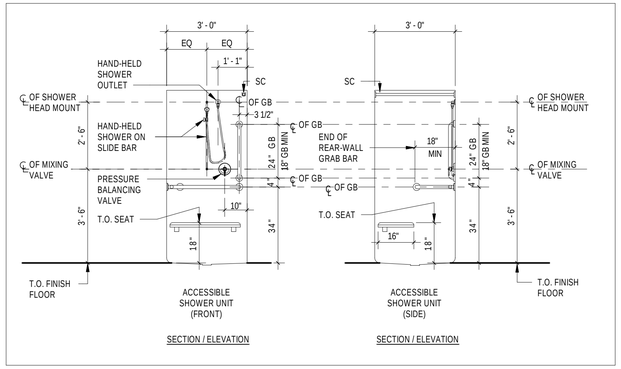
PLUMBING FIXTURE SCHEDULE / MOUNTING HEIGHTS

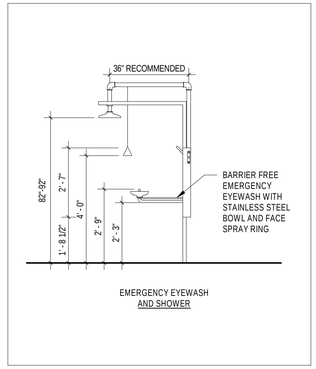
3/8" = 1'-0"

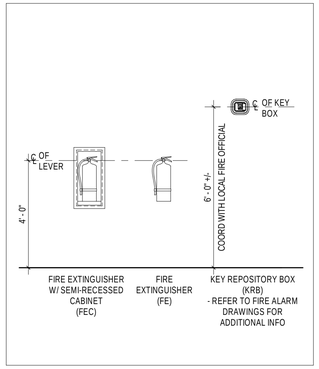


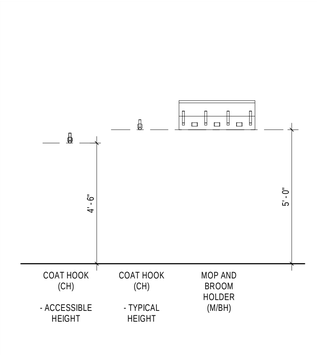












Project:

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Revisions:

Rev	Date	Description

Issued For: BID

PROJECT TRUE

SCALE: AS NOTED

Date: 4/7/22

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Reviewed By: JS

Approved By: BG/JS

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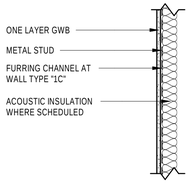
GENERAL NOTES

Sheet Number:

A002



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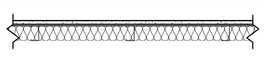
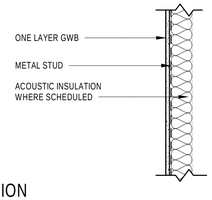


PLAN

MARK	CORE SIZE	GWB THICK	GWB HEIGHT	TOTAL PARTITION THICK	ACOUSTIC INSUL	FIRE RATING / UL DESIGN NO.
1	2 1/2"	5/8"	FULL HEIGHT	3 1/8"	NO	-
1A	2 1/2"	5/8"	FULL HEIGHT	3 1/8"	YES	-
1B	2 1/2"	5/8"	6" ABOVE FINISHED CLG	3 1/8"	NO	-
1C	7/8"	5/8"	6" ABOVE FINISHED CLG	1 1/2"	NO	-

1 2 1/2" METAL STUD



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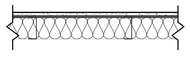
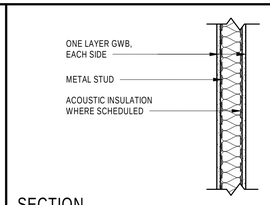


PLAN

MARK	CORE SIZE	GWB THICK	GWB HEIGHT	TOTAL PARTITION THICK	ACOUSTIC INSUL	FIRE RATING / UL DESIGN NO.
2	3 5/8"	5/8"	FULL HEIGHT	4 1/4"	NO	-
2A	3 5/8"	5/8"	FULL HEIGHT	4 1/4"	YES	-
2B	3 5/8"	5/8"	6" ABOVE FINISHED CLG	4 1/4"	NO	-

2 3 5/8" METAL STUD - 1 LAYER GWB - 1 SIDE



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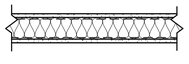
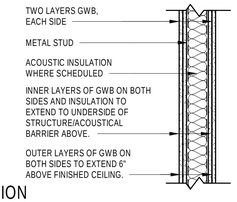


PLAN

MARK	CORE SIZE	GWB THICK	GWB HEIGHT	TOTAL PARTITION THICK	ACOUSTIC INSUL	FIRE RATING / UL DESIGN NO.
3	3 5/8"	5/8"	FULL HEIGHT	4 7/8"	NO	-
3A	3 5/8"	5/8"	FULL HEIGHT	4 7/8"	YES	-
3B	3 5/8"	5/8"	6" ABOVE FINISHED CLG	4 7/8"	NO	-

3 3 5/8" METAL STUD - 1 LAYER GWB - BOTH SIDES



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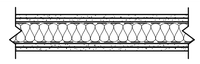
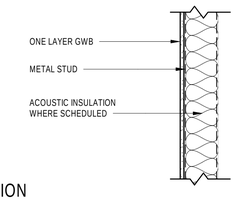


PLAN

MARK	CORE SIZE	GWB THICK	GWB HEIGHT	TOTAL PARTITION THICK	ACOUSTIC INSUL	FIRE RATING / UL DESIGN NO.
4	3 5/8"	(2) 5/8"	FULL HEIGHT	6 1/8"	NO	-
4A	3 5/8"	(2) 5/8"	6" ABOVE FINISHED CLG	6 1/8"	NO	-
4B - 2H	3 5/8"	(2) 5/8"	FULL HEIGHT	6 1/8"	YES	2 HR PARTITION - U419

4 3 5/8" METAL STUD - 2 LAYER GWB - BOTH SIDES



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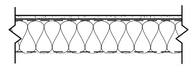
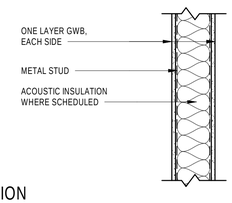


PLAN

MARK	CORE SIZE	GWB THICK	GWB HEIGHT	TOTAL PARTITION THICK	ACOUSTIC INSUL	FIRE RATING / UL DESIGN NO.
5	6"	5/8"	FULL HEIGHT	6 5/8"	NO	-
5A	6"	5/8"	FULL HEIGHT	6 5/8"	YES	-
5B	6"	5/8"	6" ABOVE FINISHED CLG	6 5/8"	NO	-

5 6" METAL STUD - 1 LAYER GWB - 1 SIDE



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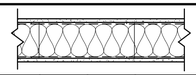
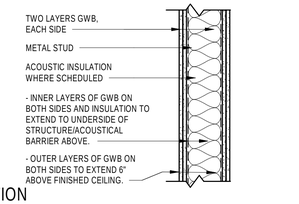


PLAN

MARK	CORE SIZE	GWB THICK	GWB HEIGHT	TOTAL PARTITION THICK	ACOUSTIC INSUL	FIRE RATING / UL DESIGN NO.
6	6"	5/8"	FULL HEIGHT	7 1/4"	NO	-
6A	6"	5/8"	FULL HEIGHT	7 1/4"	YES	-
6B	6"	5/8"	6" ABOVE FINISHED CLG	7 1/4"	NO	-
6C	8"	5/8"	FULL HEIGHT	9 1/4"	NO	-

6 6" METAL STUD - 1 LAYER GWB - BOTH SIDES



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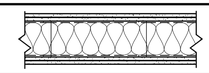
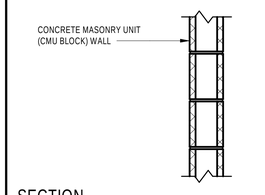


PLAN

MARK	CORE SIZE	GWB THICK	GWB HEIGHT	TOTAL PARTITION THICK	ACOUSTIC INSUL	FIRE RATING / UL DESIGN NO.
7 - 2h	6"	5/8"	FULL HEIGHT	8 1/2"	YES	2 HR PARTITION - U411

7 6" METAL STUD - 2 LAYERS GWB - BOTH SIDES



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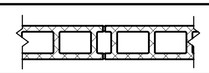
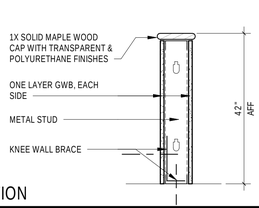


PLAN

MARK	CORE SIZE	GWB THICK	GWB HEIGHT	TOTAL THICK	ACOUSTIC INSUL	FIRE RATING / UL DESIGN NO.
8	6" NOM	-	-	5 5/8"	NO	-
8 - 1H	6" NOM	-	-	5 5/8"	NO	1 HR PARTITION - U905
8A	8" NOM	-	-	7 5/8"	NO	-
8A - 1H	8" NOM	-	-	7 5/8"	NO	1 HR PARTITION - U905
8A - 2H	8" NOM	-	-	7 5/8"	NO	2 HR PARTITION - U905
8B	12" NOM	-	-	11 5/8"	NO	-
8B - 1H	12" NOM	-	-	11 5/8"	NO	1 HR PARTITION - U905
8B - 2H	12" NOM	-	-	11 5/8"	NO	2 HR PARTITION - U905

8 CMU WALLS



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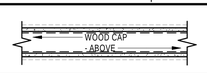
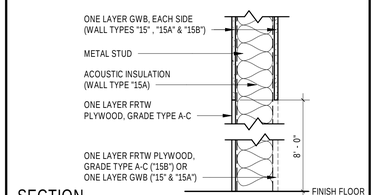


PLAN

MARK	CORE SIZE	GWB THICK	GWB HEIGHT	TOTAL THICK	ACOUSTIC INSUL	FIRE RATING / UL DESIGN NO.
9	3 5/8"	5/8"	UP TO 41 1/4"	4 7/8"	NO	-

9 PARTIAL HEIGHT WALLS



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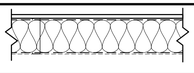
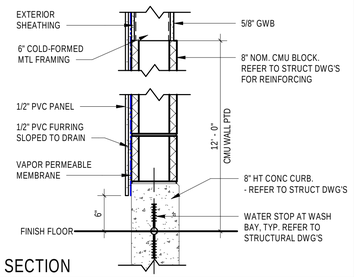


PLAN

MARK	SHEATHING	SHEATHING HEIGHT	CORE SIZE	SHEATHING	SHEATHING HEIGHT	ACOUSTIC INSUL
15	PLY - 1 SIDE, GWB OTHER	UP TO 8'-0"	6" MS	GWB ABOVE	FULL HEIGHT	NO
15A	PLY - 1 SIDE, GWB OTHER	UP TO 8'-0"	6" MS	GWB ABOVE	FULL HEIGHT	YES
15B	PLY - 2 SIDES	UP TO 8'-0"	6" MS	GWB ABOVE	FULL HEIGHT	NO
15C	PLY - 1 SIDE	UP TO 8'-0"	6" MS	GWB ABOVE	FULL HEIGHT	RIGID INSULATION

15 METAL STUD FULL HEIGHT WITH PLYWOOD UP TO 8'-0", GWB ABOVE PLYWOOD TO UNDERSIDE OF STRUCTURE (SEE PLANS FOR THE LOCATION OF GWB / PLYWOOD)



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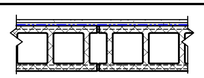
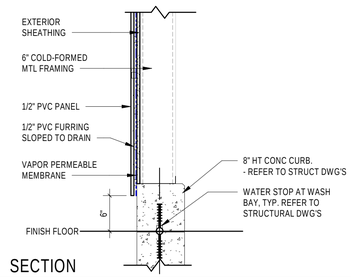


PLAN

MARK	ASSEMBLY DESCRIPTION
16	PARTITION CMU WALL

16 VEHICLE WASH BAY WALL ASSEMBLY'S



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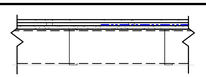
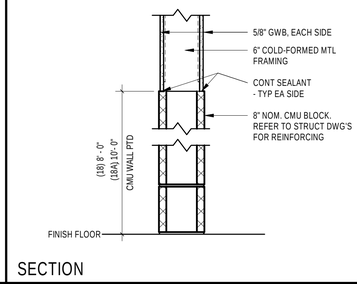


PLAN

MARK	ASSEMBLY DESCRIPTION
16A	GIRTS / CFMF

16A VEHICLE WASH BAY WALL ASSEMBLY'S



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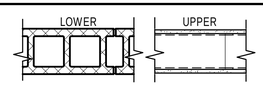

PLAN

MARK	CORE SIZE	GWB THICK	GWB HEIGHT	TOTAL PARTITION THICK	ACOUSTIC INSUL	FIRE RATING / UL DESIGN NO.
18	VARIES	5/8"	FULL HEIGHT	VARIES	NO	-
18A	VARIES	5/8"	FULL HEIGHT	VARIES	NO	-

18 STACKED PARTITION: 8" CMU / 6" METAL STUD - 1 LAYER GWB - BOTH SIDES

TYPICAL INTERIOR PARTITIONS
1" = 1'-0"

Project:

VILLAGE OF ARDSLEY

NEW PUBLIC WORKS FACILITY

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Seal:

REGISTERED ARCHITECT JOHN JOSEPH SARGENT 022726 STATE OF NEW YORK

Revisions:

Rev	Date	Description

Issued For: BID

PROJECT TRUE

SCALE: AS NOTED

Date: 4/7/22
Drawn By: BG
Reviewed By: JS
Approved By: JS/BG

W&S Project No: N2190088

Drawing Title:

PARTITION TYPES

Sheet Number:

A003

EXTERIOR WALL ASSEMBLIES

NOTE: SEE DETAILS ON A6 & A7 SERIES FOR ADDITIONAL INFORMATION. "F" USED FOR FUME SEPERATION WALLS. "I" NOT USED FOR CLARITY.
- EXTERIOR WALL ASSEMBLIES ARE FOR DESCRIPTION ONLY. REFER TO CONSTRUCTION DETAILS FOR ADDITIONAL INFORMATION.

TYPE A

NOT USED

TYPE B

NOT USED

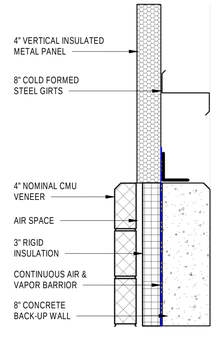
TYPE C

TYPE C - LOWER:
(1'-4" TOTAL THICKNESS)
EXTERIOR
- 4" NOMINAL CMU VENEER
- AIR SPACE
- 3" RIGID INSULATION
- CONTINUOUS AIR & VAPOR BARRIER
- 8" CONCRETE BACK-UP WALL

INTERIOR

TYPE C - UPPER:
EXTERIOR
- 4" VERTICAL INSULATED METAL PANEL, MIN R-26, BREAK METAL TRIM, BY MBM
- 8" COLD FORMED STEEL GIRTS, BY MBM
- STEEL BUILDING FRAME, BY MBM

INTERIOR



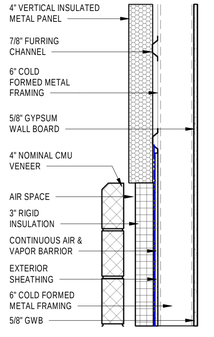
TYPE D

TYPE D - LOWER:
(1'-4" TOTAL THICKNESS)
EXTERIOR
- 4" NOMINAL CMU VENEER
- AIR SPACE
- 3" RIGID INSULATION
- CONTINUOUS AIR & VAPOR BARRIER
- EXTERIOR SHEATHING
- 6" COLD FORMED METAL FRAMING, AT 16" O.C. MAX.
- 5/8" GYPSUM WALL BOARD

INTERIOR

TYPE D - UPPER:
EXTERIOR
- 4" VERTICAL INSULATED METAL PANEL, MIN R-26, BREAK METAL TRIM, BY MBM
- 7/8" FURRING CHANNEL AT 16" O.C., COORDINATE WITH METAL PANEL FASTENER REQUIREMENTS, BY MBM
- 6" COLD FORMED METAL FRAMING, AT 16" O.C. MAX.
- 5/8" GYPSUM WALL BOARD

INTERIOR



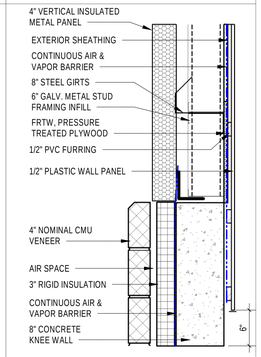
TYPE E

TYPE E - LOWER:
EXTERIOR
- 4" NOMINAL CMU VENEER
- AIR SPACE
- 3" RIGID INSULATION
- CONTINUOUS AIR & VAPOR BARRIER
- 8" CONCRETE BACK-UP WALL (3' - 4" HT)
- CONTINUOUS AIR & VAPOR BARRIER
- 1/2" PVC FURRING SLOPED TO DRAIN, SHIM AS NEEDED
- 1/2" PLASTIC WALL PANEL

INTERIOR

TYPE E - UPPER:
EXTERIOR
- 4" VERTICAL INSULATED METAL PANEL, MIN R-26, BREAK METAL TRIM, BY MBM
- 8" COLD FORMED STEEL GIRTS, BY MBM
- 6" GALVANIZED COLD-FORMED MTL FRAMING, SPAN BETWEEN HORIZONTAL GIRT FRAMING, TYP.
- 5/8" PRESSURE TREATED A-C PLYWOOD SHEATHING ABOVE CONCRETE BACK-UP WALL UP TO 8' - 0", 5/8", FRTW, PRESSURE TREATED A-C SHEATHING ABOVE PLYWOOD AT ALL WASH BAY WALLS, TYP.
- CONTINUOUS AIR & VAPOR BARRIER
- 1/2" PVC FURRING SLOPED TO DRAIN, SHIM AS NEEDED
- 1/2" PLASTIC WALL PANEL

INTERIOR

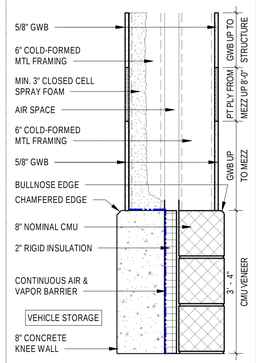


SEPARATION WALL ASSEMBLIES

TYPE F1

TYPE F1 - LOWER:
(1' - 6" TOTAL THICKNESS)
- 8" CONC. KNEE WALL
- CONTINUOUS AIR & VAPOR BARRIER
- 2" RIGID INSULATION
- AIR SPACE
- 8" NOMINAL CMU VENEER

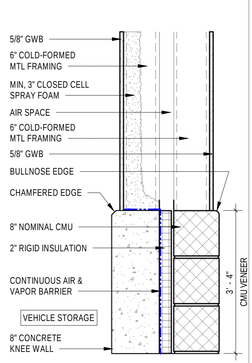
TYPE F1 - UPPER:
(1' - 3 5/8" TOTAL THICKNESS)
- 5/8" GYPSUM WALL BOARD ABOVE CMU VENEER UP TO MEZZANINE SLAB. GRADE TYPE A-C FRTW PLYWOOD UP 8' - 0". 5/8" GYPSUM WALL BOARD TO UNDERSIDE OF STRUCTURE
- 6" COLD FORMED METAL FRAMING, AT 16" O.C. MAX.
- MIN. 3" CLOSED CELL SPRAY FOAM BETWEEN STUDS
- AIR SPACE
- 6" COLD FORMED METAL FRAMING, AT 16" O.C. MAX.
- 5/8" GYPSUM WALL BOARD ABOVE CMU VENEER UP TO MEZZANINE SLAB. GRADE TYPE A-C FRTW PLYWOOD UP 8' - 0". 5/8" GYPSUM WALL BOARD TO UNDERSIDE OF STRUCTURE



TYPE F1A

TYPE F1A - LOWER:
(1' - 6" TOTAL THICKNESS)
- 8" CONC. KNEE WALL
- CONTINUOUS AIR & VAPOR BARRIER
- 2" RIGID INSULATION
- AIR SPACE
- 8" NOMINAL CMU VENEER

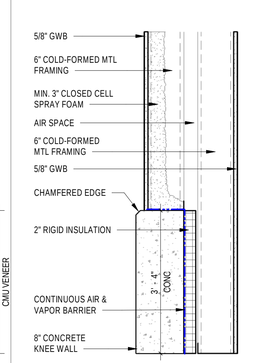
TYPE F1A - UPPER:
(1' - 3 5/8" TOTAL THICKNESS)
- 5/8" GYPSUM WALL BOARD
- 6" COLD FORMED METAL FRAMING, AT 16" O.C. MAX.
- MIN. 3" CLOSED CELL SPRAY FOAM BETWEEN STUDS
- AIR SPACE
- 6" COLD FORMED METAL FRAMING, AT 16" O.C. MAX.
- 5/8" GYPSUM WALL BOARD



TYPE F2

TYPE F2 - LOWER:
(1' - 5" TOTAL THICKNESS)
- 8" CONC. KNEE WALL
- CONTINUOUS AIR & VAPOR BARRIER
- 2" RIGID INSULATION
- AIR SPACE
- 6" COLD FORMED METAL FRAMING, AT 16" O.C. MAX.
- 5/8" GYPSUM WALL BOARD

TYPE F2 - UPPER:
(1' - 3 5/8" TOTAL THICKNESS)
- 5/8" GYPSUM WALL BOARD
- 6" COLD FORMED METAL FRAMING, AT 16" O.C. MAX.
- MIN. 3" CLOSED CELL SPRAY FOAM BETWEEN STUDS
- 6" COLD FORMED METAL FRAMING, AT 16" O.C. MAX.
- 5/8" GYPSUM WALL BOARD



Project:

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NEW PUBLIC WORKS FACILITY

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RHINEBECK ARCHITECTURE

Seal:

REGISTERED ARCHITECT
JOHN JOSEPH SHEEHY
022726
STATE OF NEW YORK

Revisions:

Rev	Date	Description

Issued For: BID

PROJECT TRUE

SCALE: AS NOTED

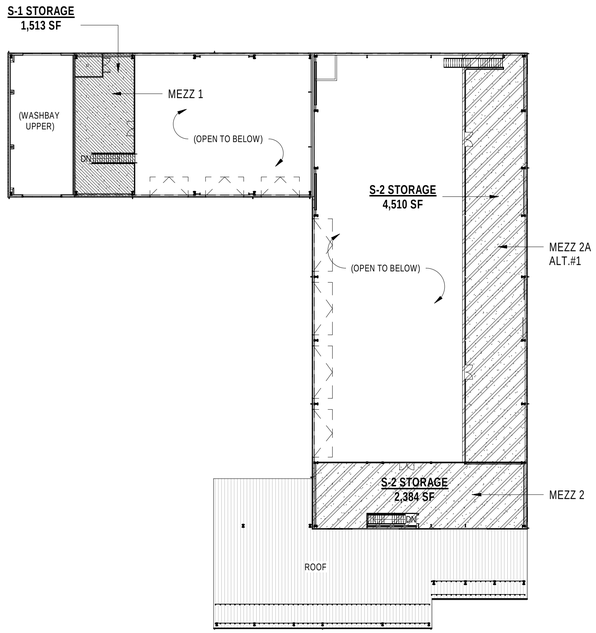
Date:	4/7/22
Drawn By:	BG
Reviewed By:	JS
Approved By:	BG/JS
W&S Project No:	N2190088

Drawing Title:

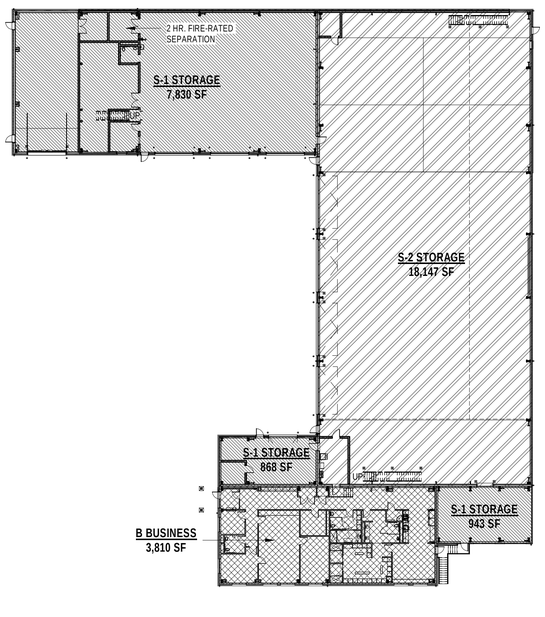
EXTERIOR & SEPARATION WALL ASSEMBLIES

Sheet Number:

A004



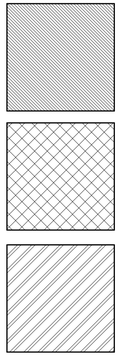
2 CODE PLAN - MEZZANINE LEVEL
1" = 30'-0"



1 CODE PLAN - FIRST FLOOR
1" = 30'-0"

3 CODE PLAN - BASEMENT
1" = 30'-0"

USE GROUP TYPES LEGEND



USE GROUP: S-1 STORAGE

USE GROUP: B BUSINESS

USE GROUP: S-2 STORAGE

INTERNATIONAL ENERGY CONSERVATION CODE 2020 (IECC) - ZONE 4A

ENERGY CODE: WALL TYPE VALUES

TABLE C402.1.4 - IECC 2020

CMU VENEER ON CONC BACK-UP WALL

MATERIAL	DEPTH	R-VALUE
CMU VENEER	4.00"	0.69
CAVITY	1.75"	1.67
CONT. RIGID INSULATION	3.00"	15.41
VAPOR RETARDER	0.06"	0.12
CONC BACK-UP WALL	8.00"	.80
TOTAL R-VALUE PROVIDED		18.69
COMPUTED U-VALUE: 1/R-VALUE = 1/18.69 = 0.053		
REQUIRED U-VALUE = 0.078 FOR A MASS WALL		
EQUIVALENT COMPUTED R-VALUE		12.8

CMU VENEER ON METAL STUD BACKUP WALL

MATERIAL	DEPTH	R-VALUE
CMU VENEER	4.00"	0.69
CAVITY	1.75"	1.67
CONT. RIGID INSULATION	3.00"	15.41
VAPOR RETARDER	0.06"	0.12
GYPSUM SHEATHING	0.63"	0.67
MTL STUD	8.00"	0.02
GYPSUM BOARD	0.63"	0.57
TOTAL R-VALUE PROVIDED		19.15
COMPUTED U-VALUE: 1/R-VALUE = 1/19.15 = 0.052		
REQUIRED U-VALUE = 0.064 FOR A METAL FRAMED WALL		
EQUIVALENT COMPUTED R-VALUE		15.6

INSULATED METAL WALL PANEL ON GIRTS

MATERIAL	DEPTH	R-VALUE
INSULATED METAL WALL PANEL	4.00"	28.80
TOTAL R-VALUE PROVIDED		28.80
COMPUTED U-VALUE: 1/R-VALUE = 1/26.00 = 0.038		
REQUIRED U-VALUE = 0.052 FOR A METAL BUILDING WALL		
EQUIVALENT COMPUTED R-VALUE		17.2

ENERGY CODE: ROOF TYPE VALUES

TABLE C402.1.4 - IECC 2020

INSULATED METAL ROOF PANEL SYSTEM

MATERIAL	DEPTH	R-VALUE
INSULATED METAL ROOF PANEL	5"	36.00
TOTAL R-VALUE		R-38
COMPUTED U-VALUE: 1/R-VALUE = 1/38 = 0.02777		
REQUIRED U-VALUE = 0.035 FOR A METAL BUILDING		

ENERGY CODE: FENESTRATION VALUES

TABLE C402.4 - IECC 2020

BUILDING ENVELOPE FENESTRATIONS - U-FACTORS

MATERIAL	SPECIFIED U-VALUE	MAX ALLOWED U-VALUE
FIXED FENESTRATION	0.27 SUMMER / 0.30 WINTER	0.38
OPERABLE FENESTRATION	0.27 SUMMER / 0.30 WINTER	0.45
ENTRANCE DOORS (PERSONNEL)	0.33	0.77
OPAQUE DOORS (OVERHEAD / NON-SWINGING)	0.057	0.37
OPAQUE DOORS (OVERHEAD / NON-SWINGING)	0.40	0.37

SOLAR HEAT GAIN COEFFICIENT (SHGC)	SHGC SPECIFIED	SOUTH, EAST, WEST	NORTH
ORIENTATION			
PROJECTION FACTOR - PF < 0.2	0.37	0.40	0.53
PROJECTION FACTOR - 0.2 ≤ PF < 0.5	0.37	0.48	0.58
PROJECTION FACTOR - PF ≥ 0.5	0.37	0.64	0.64

SKYLIGHTS	SPECIFIED VALUES	MAX ALLOWED VALUES
U-VALUE	0.40	0.50
SOLAR HEAT GAIN COEFFICIENT (SHGC)	0.40	0.40

CODE SUMMARY

THE PROPOSED VILLAGE OF ARDSLEY PUBLICS WORKS FACILITY CONSISTS OF A NON-SEPARATED "MIXED-USE" BUILDING PROGRAM, INCLUDING THREE (3) MAIN OPERATIONAL COMPONENTS, AS FOLLOWS:

1. **USE GROUP "B", BUSINESS**: A ONE-STORY ADMINISTRATION WING, CONSISTING OF EMPLOYEE SUPPORT SPACES (E.I. LUNCH/TRAINING ROOM, MEN'S & WOMEN'S LOCKER ROOM ETC.), DIRECTORS OFFICES, SHARED ADMINISTRATIVE OFFICE, PUBLIC SERVICE COUNTERS AND OFFICE SUPPORT SPACES.

2. **USE GROUP "S-1" MODERATE HAZARD USE**: SINGLE-STORY, DOUBLE-HEIGHT VEHICLE MAINTENANCE AND DEPARTMENT SHOP AREAS AND ADJACENT VEHICLE WASH-BAY. MAINTENANCE AND SHOP AREAS HAVE ASSOCIATED OPEN MEZZANINE SPACE.

3. **USE GROUP "S-2" LOW HAZARD USE**: SINGLE-STORY, MINIMALLY HEATED VEHICLE & EQUIPMENT STORAGE GARAGE AREA WITH ASSOCIATED MEZZANINE SPACE.

4. THE BUILDING IS STEEL-FRAMED WITH CONCRETE SLAB FLOORS AND MEZZANINE LEVEL STEEL DECK AND CONCRETE SLAB. THE BUILDING ENCLOSURE CONSISTS OF FACTORY FOAMED IN PLACE INDUSTRIAL METAL PANEL WALL & ROOF SYSTEM AND CMU VENEER ON METAL STUD BACKUP WALL WITH AN INSULATED CMU BASE WALL. ALUMINUM STOREFRONT GLAZING IS PROVIDED AT THE ADMINISTRATION WING AND TRANSLUCENT PANEL DAYLIGHT SYSTEMS ARE INCORPORATED INTO THE WALL PANEL SYSTEM AT THE INDUSTRIAL SHOP AREAS.

SPECIFIC ASPECTS OF THIS BUILDING TO NOTE ARE AS FOLLOWS:

1. A 2-HOUR FIRE-RESISTANCE RATED FLUID STORAGE ROOM IS PROVIDED TO STORE FLAMMABLE / HAZARDOUS FLUIDS USED FOR THE MAINTENANCE & REPAIR OF VEHICLES.
2. A STANDBY GENERATOR, WHICH IS HOUSED WITHIN A SOUND-ATTENUATED ENCLOSURE IS LOCATED ON THE WEST SIDE OF THE SITE AND IS SIZED TO PROVIDE FULL OPERATIONAL POWER TO THE FACILITY.
3. THE BUILDING IS FULLY SPRINKLED PER NFPA 13 REQUIREMENTS, AND WILL HAVE AN EMERGENCY VOICE / ALARM COMMUNICATION SYSTEM.
4. WITH EXCEPTIONS OF MEZZANINES, THE BUILDING AND FACILITY ARE FULLY ACCESSIBLE AND MEET ADA ACCESSIBLITY CODE REQUIREMENTS.

GENERAL BUILDING INFORMATION:
ALL AREAS ARE SHOWN IN GROSS SQUARE FEET (GSF).

BUILDING FOOTPRINT AREA (INCLUDING ALTERNATE #3): **31,598 GSF**

TOTAL BUILDING SQUARE FOOT AREA (NOT INCLUDING MEZZANINES): **32,541 GSF**

BUILDING HEIGHT (TO ROOF RIDGE AT VEHICLE STORAGE AREA, HIGHEST POINT): **32'-0"**

APPLICABLE CODES AND STANDARDS:

- THE 2020 NEW YORK STATE BUILDING CODE.

BUILDING CODE ANALYSIS:

CHAPTER 3 - USE AND OCCUPANCY CLASSIFICATION

(SECT. 304) USE GROUP B (BUSINESS): **3,810 GSF**

(SECT. 311.2) USE GROUP S-1 (MODERATE-HAZARD STORAGE): **10,584 GSF**

(SECT. 311.3) USE GROUP S-2 (LOW-HAZARD STORAGE): **18,147 GSF**

CHAPTER 4 - SPECIAL DETAILED REQUIREMENTS BASED ON USE/OCCUPANCY

(SECT 406.8) REPAIR GARAGES
-AUTOMATIC SPRINKLER SYSTEM REQUIRED

CHAPTER 5- GENERAL BUILDING HEIGHTS AND AREAS

(SECT. 504.3) ALLOWABLE BUILDING HEIGHT
TYPE IIB CONSTRUCTION
"B" AND "S" OCCUPANCY, SPRINKLERED
ALLOWABLE HEIGHT: **75' - 0"**
PROPOSED HEIGHT (COMPLIANT): **32' - 0"**

(SECT. 504.4) ALLOWABLE NUMBER OF STORIES
"S-1" OCCUPANCY (MOST RESTRICTIVE)
ALLOWABLE STORIES: **3 STORIES**
PROPOSED STORIES (COMPLIANT): **1 STORY**

(SECT. 506.2) ALLOWABLE BUILDING AREA
GROUP "S-1" (MOST RESTRICTIVE): **70,000 SF**
IFOR 1-STORY STRUCTURE OF TYPE IIB CONSTRUCTION, W/ SPRINKLER SYSTEM)
PROPOSED AREA FOR TOTAL BUILDING: **32,541 GSF**
PROPOSED HEIGHT FOR TOTAL BUILDING: **1 STORY**

(SECT. 505.2.1) MEZZANINES

MEZZANINE 1: (VEHICLE MAINTENANCE)
VEHICLE MAINTENANCE AREA: = 4,330 SF
ALLOWABLE MEZZANINE AREA: = 4,330 x 1/2 = 2,165 SF
ACTUAL MEZZANINE AREA: = 1,513 SF

MEZZANINE 2: (VEHICLE STORAGE)
VEHICLE STORAGE AREA: = 18,147 SF
ALLOWABLE MEZZANINE AREA: = 18,147 x 1/2 = 9,073 SF
ACTUAL MEZZANINE 2 AREA: = 2,384 SF

MEZZANINE 2A: (VEHICLE STORAGE)
VEHICLE STORAGE AREA: = 18,147 SF
ALLOWABLE MEZZANINE AREA: = 18,147 x 1/2 = 9,073 SF
ACTUAL MEZZANINE 2A AREA: = 4,510 SF

MEZZ 2 + MEZZ 2A = 6,894 SF WHICH IS < 9,073 FOR SPRINKLERED BLDGS.

(SECT. 508.3.2) MIXED USE AND OCCUPANCY, NON-SEPARATED OCCUPANCIES
GROUP "S-1" (MOST RESTRICTIVE OCCUPANCY)
ALLOWABLE AREA FOR USE GROUP S: **70,000 SF**
ALLOWABLE HEIGHT FOR USE GROUP S: **1 STORY, SPRINKLED**

CHAPTER 6 - TYPES OF CONSTRUCTION

(TABLE 601) FIRE-RESISTANCE RATING REQUIREMENTS FOR BUILDING ELEMENTS

CONSTRUCTION TYPE IIB (DPW FACILITY) AND TYPE 5B (SALT SHED)

BUILDING ELEMENTS
STRUCTURAL FRAME (INC. COLUMNS, GIRDERS AND TRUSSES): 0 HRS
BEARING WALLS - EXTERIOR: 0 HRS
BEARING WALLS - INTERIOR: 0 HRS
NON BEARING WALLS AND PARTITIONS - EXTERIOR: 0 HRS
NON BEARING WALLS AND PARTITIONS - INTERIOR: 0 HRS
FLOOR CONSTRUCTION: 0 HRS
ROOF CONSTRUCTION: 0 HRS

(TABLE 602) FIRE RESISTANCE RATING REQUIREMENTS FOR EXTERIOR WALLS BASED ON FIRE SEPARATION DISTANCE

CONSTRUCTION TYPE IIB
FIRE SEPARATION DISTANCE = X
SEPARATION DISTANCE TO FUELING FACILITY: X > 30
OCCUPANCY USE GROUP S-1: 0 HRS
OCCUPANCY USE GROUP S-2: 0 HRS

(SECT. 602.2) CONSTRUCTION TYPE IIB, NONCOMBUSTIBLE, FULLY SPRINKLED

CHAPTER 9 - FIRE PROTECTION SYSTEMS

(SECT. 903.2.9) USE GROUP S-1
REQUIRE AUTOMATIC SPRINKLER SYSTEMS WHERE FIRE AREAS EXCEED 12,000 SF, OR WHERE FIRE AREAS USED FOR THE STORAGE OR REPAIR OF COMMERCIAL MOTOR VEHICLES EXCEED 5,000 SF.

(SECT. 903.3.1.1) ALTERNATIVE PROTECTION
AN NFPA-13 COMPLIANT AUTOMATIC SPRINKLER SYSTEM WILL BE PROVIDED AT ALL INTERIOR BUILDING AREAS. VEHICLE MAINTENANCE, SHOPS, AND VEHICLE STORAGE.

(SECT. 907.5.2.2) EMERGENCY VOICE / ALARM COMMUNICATION SYSTEM
AS REQUIRED UNDER SECTION 505.2.1, EXCEPTION #2, AN NFPA-72 COMPLIANT EMERGENCY VOICE / ALARM COMMUNICATION SYSTEM WILL BE PROVIDED.

CHAPTER 10 - MEANS OF EGRESS

(TABLE 1004.1.2) MAXIMUM FLOOR AREA ALLOWANCE PER OCCUPANT

STORAGE AREA S-1 = 300 GSF / OCC
STORAGE AREA S-2 = 300 GSF / OCC
BUSINESS B = 150 GSF / OCC
MEZZANINES (S-1, S-2) = 300 GSF / OCC
LOCKER ROOM = 50 GSF / OCC
MUSTER RM / MULTI-PURPOSE RM = 15 GSF / OCC

(SECT. 1004) OCCUPANT LOAD

STORAGE AREAS S-1 : 10,584 SF (÷ 300 SF/OCC) = 35 OCCUPANTS
MEZZ: 1 1,402 SF (÷ 300 SF/OCC) = 4 OCCUPANTS

STORAGE AREA S-2: 17,127 SF (÷ 300 SF/OCC) = 57 OCCUPANTS
MEZZ: 2/2A 6,894 SF (÷ 300 SF/OCC) = 23 OCCUPANTS

BUSINESS B: 2,681 SF (÷ 150 SF/OCC) = 18 OCCUPANTS
(DOESN'T INCLUDED LOCKER ROOMS, MUSTER, OR MULTI-PURPOSE)

MEN'S LOCKER ROOM: 322 SF (÷ 50 SF/OCC) = 9 OCCUPANTS
MUSTER ROOM: 289 SF (÷ 15 SF/OCC) = 19 OCCUPANTS
MULTI-PURPOSE ROOM: 518 SF (÷ 15 SF/OCC) = 35 OCCUPANTS

TOTAL: = 200 OCCUPANTS

(SECT. 1005) MEANS OF EGRESS SIZING

STORAGE AREA S-1 (INCLUDING MEZZANINE):
DOORWAY WIDTH REQUIRED MIN. 39 OCC @ 0.15 IN. PER OCC = 5.8 IN
DOORWAY WIDTH PROVIDED 32" CLEAR (x 8 DOORS) = 256 IN

STORAGE AREA S-2 (INCLUDING MEZZANINES):
DOORWAY WIDTH REQUIRED MIN. 80 OCC @ 0.15 IN. PER OCC = 12 IN
DOORWAY WIDTH PROVIDED 32" CLEAR (x 3 DOORS) = 96 IN

BUSINESS / OFFICE AREA B:
DOORWAY WIDTH REQUIRED MIN. 81 OCC @ 0.15 IN PER OCC = 12.1 IN
DOORWAY WIDTH PROVIDED 32" CLEAR (x 2 DOORS) = 64 IN

(SECT. 1006) NUMBER OF EXISTS AND EXIT ACCESS DOORWAYS

(TABLE 1006.2.1) MAXIMUM COMMON PATH OF EGRESS TRAVEL DISTANCE (FT)
B AND **S** OCCUPANCIES, WITH SPRINKLER SYSTEM = 100 FT
MAXIMUM PROVIDED = 96 FT

(TABLE 1006.3.1) MINIMUM NUMBER OF EXITS PER STORY
REQUIRED FOR 1-500 OCCUPANTS = 2
PROVIDED = 10

(SECT. 1007) EXIT AND EXIT ACCESS DOORWAY CONFIGURATION
1007.1.1 EXCEPTION #2: WHERE A BUILDING IS EQUIPPED THROUGHOUT WITH AN AUTOMATIC SPRINKLER SYSTEM, THE SEPARATION DISTANCE OF THE EXIT DOORS OR EXIT ACCESS DOORWAYS SHALL NOT BE LESS THAN ONE-THIRD OF THE LENGTH OF THE MAXIMUM OVERALL DIAGONAL DIMENSIONS OF THE AREA SERVED.

(SECT. 1016.2) EGRESS THROUGH INTERVENING SPACES
1016.2.2 EXCEPTION - MEANS OF EGRESS ARE PERMITTED THROUGH ADJOINING OR INTERVENING ROOMS OR SPACES WHEN THE ADJOINING OR INTERVENING ROOMS OR SPACES ARE THE SAME OR LESSER HAZARD OCCUPANCY GROUP.

(SECT. 1017) EXIT ACCESS TRAVEL DISTANCE
EXITS SHALL BE SO LOCATED ON EACH STORY THAT THE MAXIMUM LENGTH OF EXIT ACCESS TRAVEL, MEASURED FROM THE MOST REMOTE POINT WITHIN A STORY ALONG THE NATURAL AND UNOBSTRUCTED PATH OF EGRESS TRAVEL TO THE EXTERIOR EXIT DOOR AT THE LEVEL OF EXIT DISCHARGE SHALL NOT EXCEED THE DISTANCE GIVEN IN TABLE 1017.2:

(TABLE 1017.2) EXIT ACCESS TRAVEL DISTANCE (WITH SPRINKLER SYSTEM)

USE GROUP S-1 ALLOWABLE (MOST RESTRICTIVE): = 250 FT MAX
MAXIMUM PROVIDED: = 188 FT

(TABLE 1020.1) CORRIDORS FIRE-RESISTANCE RATING
OCCUPANCY B AND S, OCCUPANT LOAD > 30 WITH SPRINKLER SYSTEM = 0 HR

CHAPTER 29 - PLUMBING

(2902.1.1) FIXTURE CALCULATIONS
PROVIDED FIXTURES AND SUPPORTED OCCUPANCY LOAD BY GENDER:

STORAGE (S1,S2) OCCUPANCY MIN. REQ. FIXTURES (TABLE 403.1)

WATER CLOSETS: MEN AND WOMEN = 1 PER 100 (NOT MORE THAN 50% OF MEN'S W.C. CAN BE SUBSTITUTED FOR URINALS)
PROVIDED MEN = 2 SUPPORTED OCCUPANCY = 200
PROVIDED WOMEN = 2 SUPPORTED OCCUPANCY = 200

LAVATORIES MEN AND WOMEN = 1 PER 100
PROVIDED MEN = 2 SUPPORTED OCCUPANCY = 200
PROVIDED WOMEN = 2 SUPPORTED OCCUPANCY = 200

DRINKING FOUNTAINS REQ'D = 1; PROVIDED = 1

SERVICE SINK REQ'D = 1; PROVIDED = 1

(SECTION 411)
FOR S1,S2 OCCUPANCY, PROVIDE EYEWASH/SHOWER PER OSHA 1910.151

* NOTE THAT THE TOTAL UNISEX TOILET ROOMS ARE INCLUDED FOR THE TOTAL FIXTURE COUNT. THE FIXTURES FROM (1) UNISEX TOILET TOOM ARE INCLUDED IN THE WOMENS TOTAL COUNT. EACH GENDER HAS SEPARATE FACILITIES, NOT INCLUDING THE UNISEX TOILET ROOMS.

FIRE PREVENTION REGULATIONS

(SECT. 4.03, 6b) UNENCLOSED TANKS: INSTALLATION INSIDE BUILDINGS
FLUID STORAGE FIRE RESISTANCE RATING: = 2 HR*

*(NOTE: THE AGGREGATED CAPACITY OF ANY UNENCLOSED TANKS, INSTALLED INSIDE A BUILDING SEPARATED FROM ANOTHER PORTION OF A BUILDING BY A FIRE SEPARATION, SHALL BE 1,065 GALLONS. THE FIRE SEPARATION WALL SHALL CONSIST OF TWO-HOUR RATED FIRE RESISTIVE ASSEMBLIES WITH OPENING PROTECTION AND CONTINUITY IN CONFORMANCE).

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CODE PLAN NOTES

NEW & EXISTING CONSTRUCTION

A. ALL SPACES, FACILITIES AND PROGRAMS REQUIRED BY CODE TO BE ACCESSIBLE TO PHYSICALLY DISABLED PERSONS SHALL BE ACCESSIBLE.

- WHERE A WORKSTATION IS PROVIDED, AN ACCESSIBLE WORKSTATION IS REQUIRED.

- WHERE A SINK IS PROVIDED, AN ACCESSIBLE SINK WITH PIPE PROTECTION IS REQUIRED.

- ALL LABS AND SHOPS SHALL HAVE AN ACCESSIBLE EYE AND BODY WASH.

- ALL ACCESSORIES SHALL MEET REACH RANGES FOR FRONT OR SIDE APPROACH.

- ALL ACCESSIBLE ROUTES THROUGH BUILDING SHALL PROVIDE A MINIMUM 32 INCHES CLEARANCE (DOORWAYS IN PARTICULAR).

- ALL ACCESSIBLE SPACES, FURNISHING FIXTURES AND EQUIPMENT, AND ALL OPERATIONAL AND ACCESSIBLE ROUTE CLEARANCES SHALL MEET REQUIREMENTS OF SECTION 504, REHABILITATION ACT 1973 INCLUDING UNIFORM FEDERAL ACCESSIBILITY STANDARDS (UFAS) AND 504 REGULATIONS, ICC/ANSI A117.1 - 2003, AND THE AMERICANS WITH DISABILITIES ACT, TITLE II, INCLUDING THE AMERICANS WITH DISABILITIES ACT ACCESSIBILITY GUIDELINES (ADAAG) AND ADA REGULATIONS.

- REFER TO A012 FOR MOUNTING HEIGHTS FOR ACCESSIBLE FIXTURES.

B. NEW AND EXISTING SMOKE PARTITIONS, INCLUDING STORAGE ROOMS OVER 100 SQUARE FEET, SHALL HAVE PENETRATIONS AND VOIDS FIRESTOPPED IN ACCORDANCE WITH DIVISION 07 SPECIFICATION SECTION "PENETRATION FIRESTOPPING". ALL HEAD-OF-WALL JOINTS AND FLOOR-TO-WALL JOINTS AT NEW AND EXISTING SMOKE RESISTANT PARTITIONS SHALL BE SEALED IN ACCORDANCE WITH DIVISION 07 SPECIFICATION SECTION "FIRESTOPPING".

C. NEW AND EXISTING FIRE-RESISTANCE RATED WALLS SHALL HAVE PENETRATIONS AND VOIDS FIRESTOPPED IN ACCORDANCE WITH DIVISION 07 SPECIFICATION SECTION "FIRESTOPPING". ALL HEAD-OF-WALL JOINTS AND FLOOR-TO-WALL JOINTS AT NEW AND EXISTING FIRE-RATED WALLS SHALL BE SEALED IN ACCORDANCE WITH DIVISION 07 SPECIFICATION SECTION "FIRESTOPPING".

D. ALL PENETRATIONS THROUGH FLOORS, INCLUDING FLOOR OF DUCTWORK ENCLOSURES, SHALL BE FIRESTOPPED IN ACCORDANCE WITH DIVISION 07 SECTION "FIRESTOPPING". PENETRATIONS THROUGH FLOORS OF RATED ROOMS OR FLOOR SYSTEMS SHALL BE FIRESTOPPED TO MEET RATING OF ROOM OR FLOOR SYSTEM.

FOR INTERIOR FINISHES

WALLS AND CEILINGS (OTHER THAN TEXTILE)
BUSINESS AND EDUCATIONAL OCCUPANCIES:
- VERTICAL EXITS AND EXIT PASSAGEWAYS - CLASS A
- EXIT ACCESS CORRIDORS AND OTHER EXIT WAYS - CLASS B
- ROOMS AND ENCLOSED SPACES - CLASS C

ASSEMBLY OCCUPANCIES A-1, A-2:
- VERTICAL EXITS AND EXIT PASSAGEWAYS - CLASS A
- EXIT ACCESS CORRIDORS AND OTHER EXIT WAYS - CLASS A (LOBBIES CLASS B)
- ROOMS AND ENCLOSED SPACES - CLASS B (CLASS C IF <300 PEOPLE)

ASSEMBLY OCCUPANCIES A-3, A-4, A-5:
- VERTICAL EXITS AND EXIT PASSAGEWAYS - CLASS A
- EXIT ACCESS CORRIDORS AND OTHER EXIT WAYS - CLASS A
- ROOMS AND ENCLOSED SPACES - CLASS C

WALLS - TEXTILE
IBC 803.6.1.1 OR 803.6.1.2

CEILINGS - TEXTILE
CLASS A

FLOOR FINISH
OCCUPANCIES B, S
- VERTICAL EXITS, EXIT PASSAGEWAYS, AND EXIT ACCESS CORRIDORS - CLASS II
- OTHER AREAS - DOC FF-1 (CPSC 16 CFR, PART 1630)

CODE PLAN LEGEND

EXIT CAPACITY
ACTUAL EGRESS OF DOOR OR STAIR
MAXIMUM ALLOWABLE EGRESS CAPACITY OF DOOR OR STAIR

ROOM NAME
101 — ROOM NUMBER

150 / 50SF/P / 3P — MAXIMUM NUMBER OF ALLOWABLE OCCUPANTS; AREA IN NET SQUARE FEET (GROSS SQUARE FEET); OCCUPANCY LOAD FACTOR

115' — PATH OF MAXIMUM TRAVEL DISTANCE TO EXIT

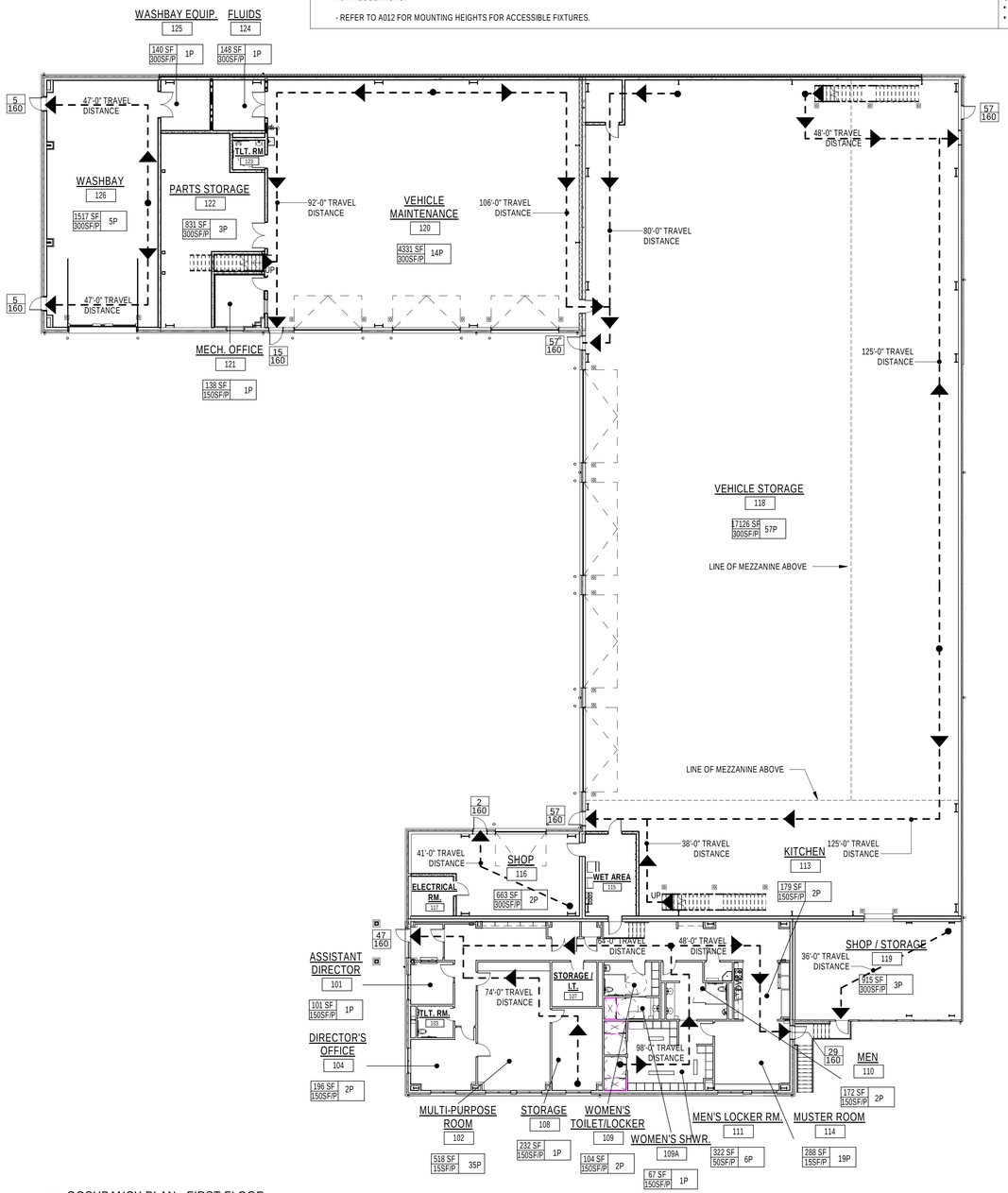
15 — DIRECTION OF TRAVEL TO EXIT

HANDICAPPED ACCESSIBLE AREA OR EXIT

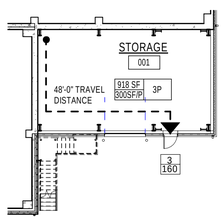
A = 33" x 48"
B = 33" x 60"
C = 36" x 48"
D = 36" x 60"
E = 30" x 48"
F = 30" x 50"

FIRE EXTINGUISHERS:
F.E. = FIRE EXTINGUISHER, BRACKET MOUNTED
F.E.C = FIRE EXTINGUISHER, CABINET MOUNTED (SEMI-RECESSED)

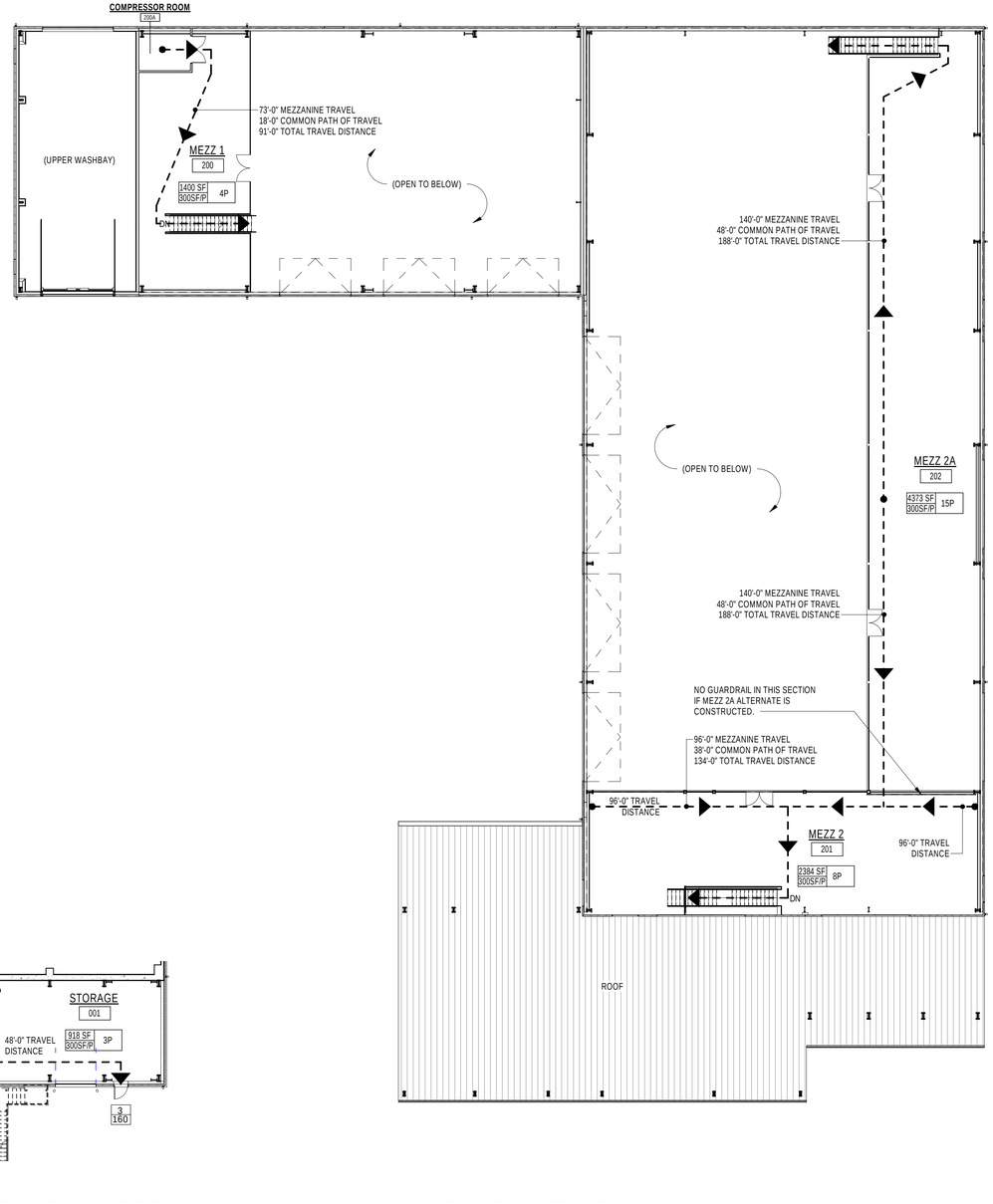
SEPARATIONS ARE DESIGNATED AS FOLLOWS:
2 HOUR FIRE-RESISTANCE RATED FIRE BARRIER
1 HOUR FIRE-RESISTANCE RATED FIRE BARRIER
SMOKE RESISTANT SEPARATION



1 OCCUPANCY PLAN - FIRST FLOOR
1/16" = 1'-0"



3 OCCUPANCY PLAN - BASEMENT
1/16" = 1'-0"



2 OCCUPANCY PLAN - MEZZANINE
1/16" = 1'-0"

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OCCUPANCY PLANS

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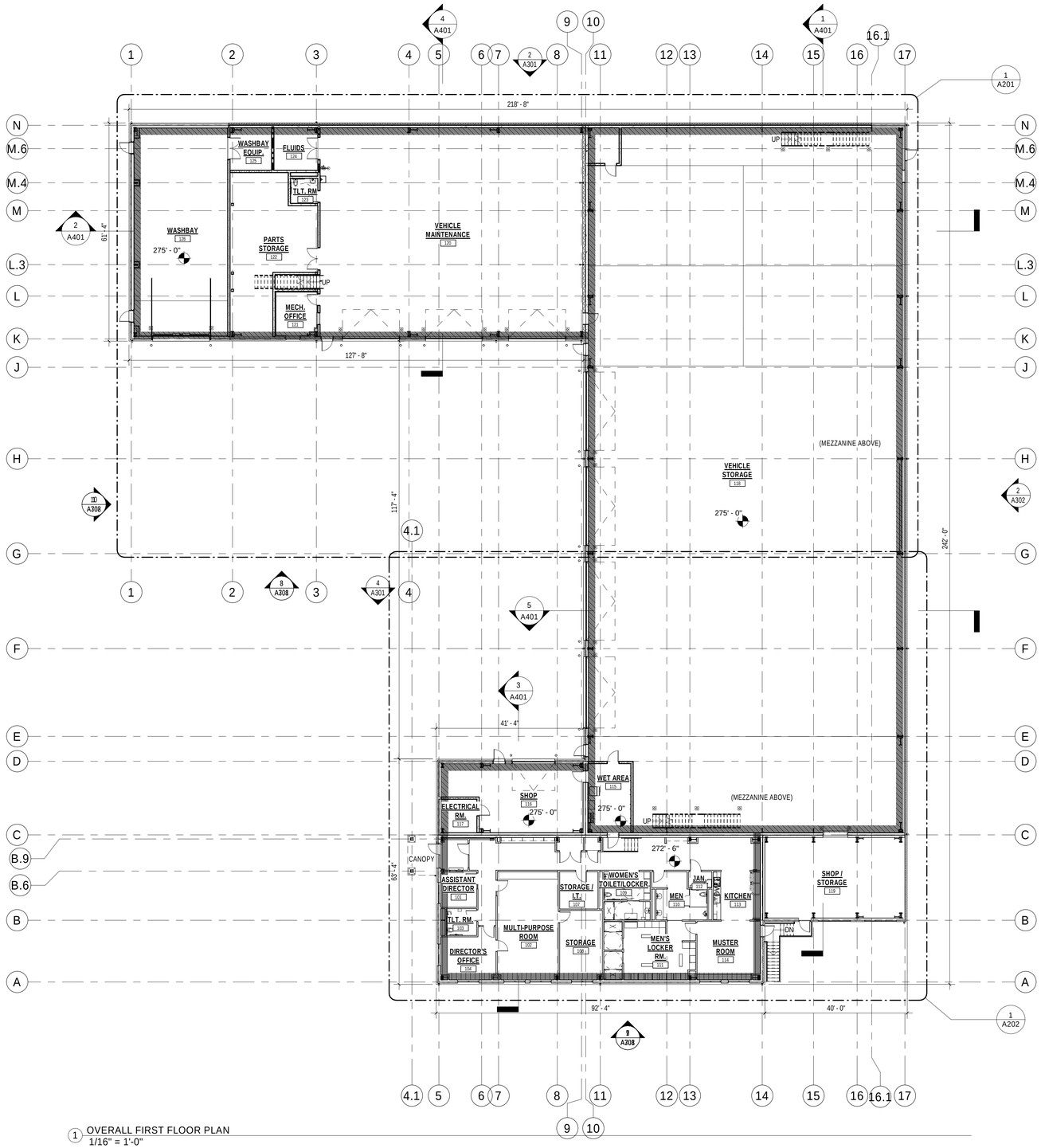
UNDERSLAB INSULATION LEGEND:

a) R-10 RIGID INSULATION
- STANDARD COMPRESSIVE STRENGTH - 25 PSI
- 2'-0" HORIZONTAL FROM FOUNDATION WALL INWARDS

-2'-0" VERTICAL ON EXTERIOR SIDE OF FOUNDATION WALL

b) R-10 RIGID INSULATION
- HIGH COMPRESSIVE STRENGTH - 60 PSI
- 2'-0" HORIZONTAL FROM FOUNDATION WALL INWARDS

-2'-0" VERTICAL ON EXTERIOR SIDE OF FOUNDATION WALL



1 OVERALL FIRST FLOOR PLAN
1/16" = 1'-0"

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OVERALL FIRST FLOOR PLAN

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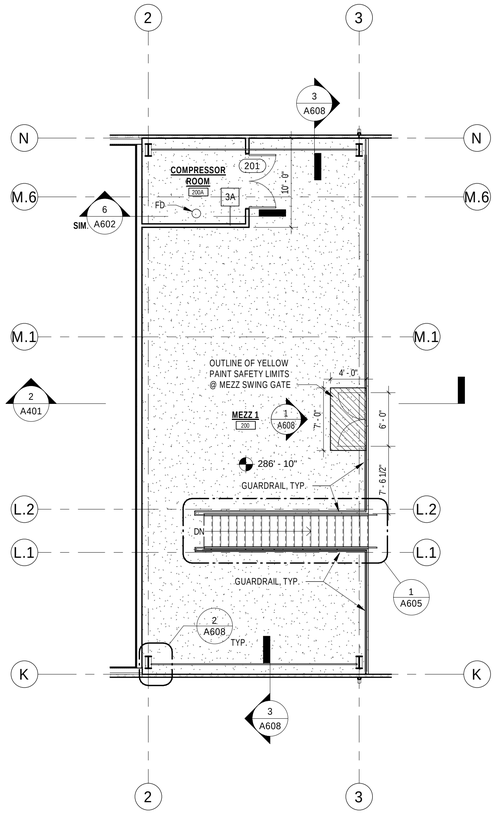
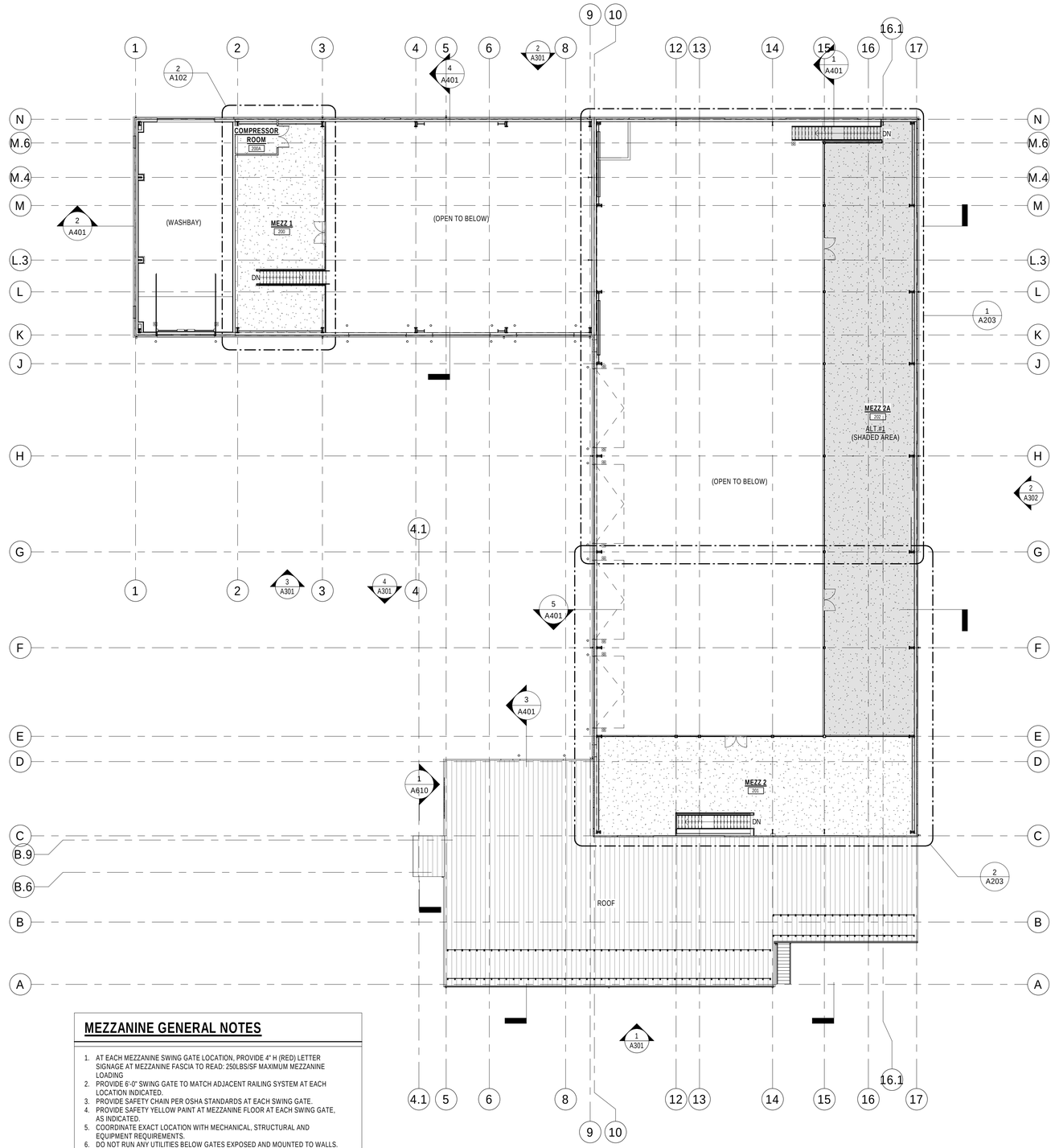


2 MEZZANINE 1 FLOOR PLAN - LARGE SCALE
1/8" = 1'-0"



MEZZANINE GENERAL NOTES

1. AT EACH MEZZANINE SWING GATE LOCATION, PROVIDE 4" H (RED) LETTER SIGNAGE AT MEZZANINE FASCIA TO READ: 250LBS/SF MAXIMUM MEZZANINE LOADING
2. PROVIDE 6'-0" SWING GATE TO MATCH ADJACENT RAILING SYSTEM AT EACH LOCATION INDICATED.
3. PROVIDE SAFETY CHAIN PER OSHA STANDARDS AT EACH SWING GATE.
4. PROVIDE SAFETY YELLOW PAINT AT MEZZANINE FLOOR AT EACH SWING GATE, AS INDICATED.
5. COORDINATE EXACT LOCATION WITH MECHANICAL, STRUCTURAL AND EQUIPMENT REQUIREMENTS.
6. DO NOT RUN ANY UTILITIES BELOW GATES EXPOSED AND MOUNTED TO WALLS.
7. PROVIDE TIE-OFF POINT FOR OSHA FALL ARREST SYSTEM NEAR MEZZANINE SWING-GATE ON PRIMARY STRUCTURAL ELEMENT.

1 OVERALL MEZZANINE PLAN
1/16" = 1'-0"

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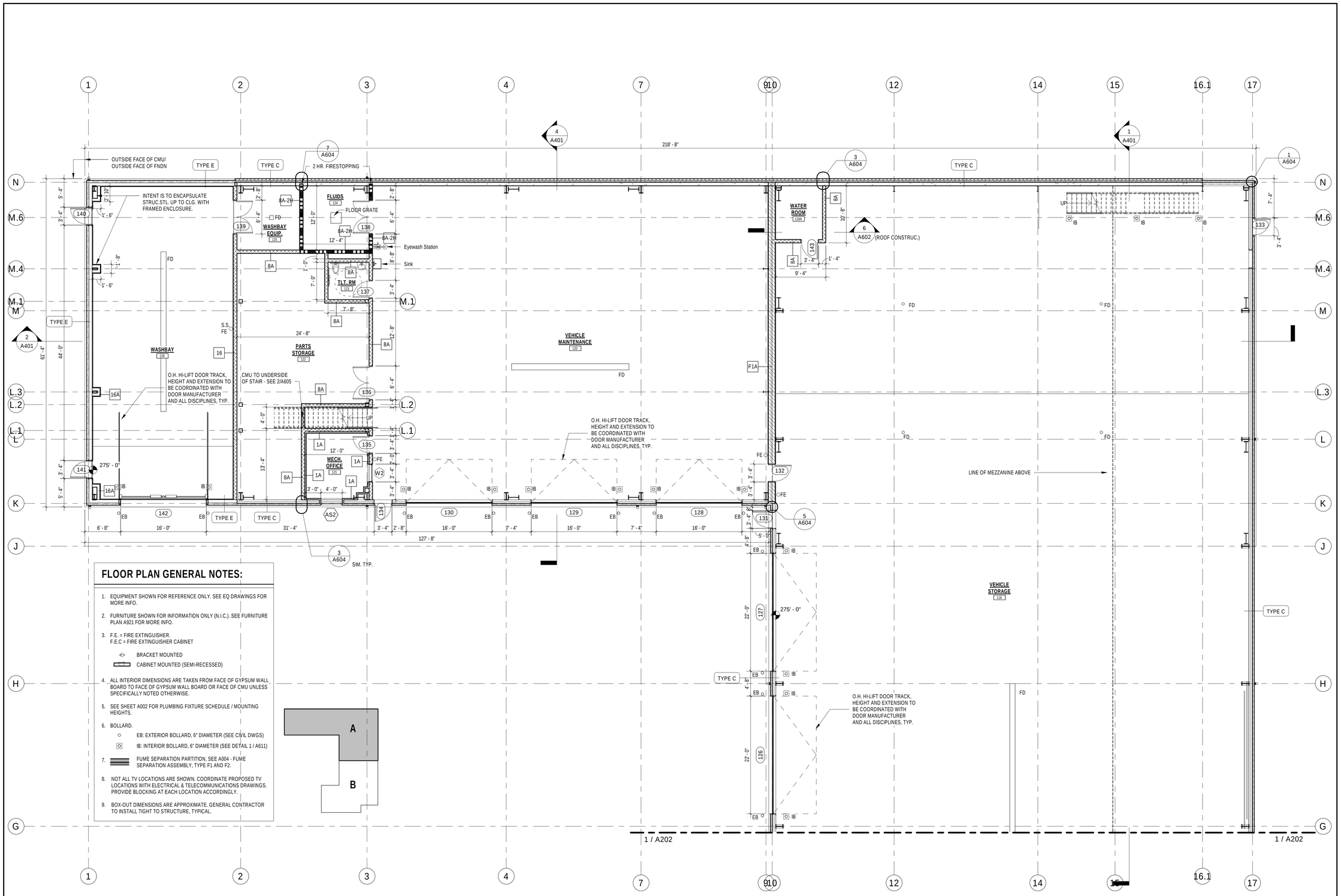
Drawn By:	BG
Reviewed By:	JS
Approved By:	JS/BG
W&S Project No:	N2190088

Drawing Title:

OVERALL MEZZANINE FLOOR PLAN/ MEZZ 1 PLAN

Sheet Number:

A102



FLOOR PLAN GENERAL NOTES:

1. EQUIPMENT SHOWN FOR REFERENCE ONLY. SEE EQ DRAWINGS FOR MORE INFO.
2. FURNITURE SHOWN FOR INFORMATION ONLY (N.I.C.). SEE FURNITURE PLAN A921 FOR MORE INFO.
3. F.E. = FIRE EXTINGUISHER.
   F.E.C = FIRE EXTINGUISHER CABINET
   - BRACKET MOUNTED
   - CABINET MOUNTED (SEMI-RECESSED)
4. ALL INTERIOR DIMENSIONS ARE TAKEN FROM FACE OF GYPSUM WALL BOARD TO FACE OF GYPSUM WALL BOARD OR FACE OF CMU UNLESS SPECIFICALLY NOTED OTHERWISE.
5. SEE SHEET A002 FOR PLUMBING FIXTURE SCHEDULE / MOUNTING HEIGHTS.
6. BOLLARD.
   - EB: EXTERIOR BOLLARD, 6" DIAMETER (SEE CIVIL DWGS)
   - IB: INTERIOR BOLLARD, 6" DIAMETER (SEE DETAIL 1 / A611)
7. FUME SEPARATION PARTITION, SEE A004 - FUME SEPARATION ASSEMBLY, TYPE F1 AND F2.
8. NOT ALL TV LOCATIONS ARE SHOWN. COORDINATE PROPOSED TV LOCATIONS WITH ELECTRICAL & TELECOMMUNICATIONS DRAWINGS. PROVIDE BLOCKING AT EACH LOCATION ACCORDINGLY.
9. BOX-OUT DIMENSIONS ARE APPROXIMATE. GENERAL CONTRACTOR TO INSTALL TIGHT TO STRUCTURE, TYPICAL.

1 PARTIAL LARGE SCALE FIRST FLOOR PLAN "A"
1/8" = 1'-0"

Project:

VILLAGE OF ARDSLEY

NEW PUBLIC WORKS FACILITY

220 HEATHERDELL ROAD,
VILLAGE OF ARDSLEY,
NEW YORK 10502

Weston & Sampson

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RHINEBECK ARCHITECTURE

Seal:

REGISTERED ARCHITECT JOHN JOSEPH SARGENT STATE OF NEW YORK 022726

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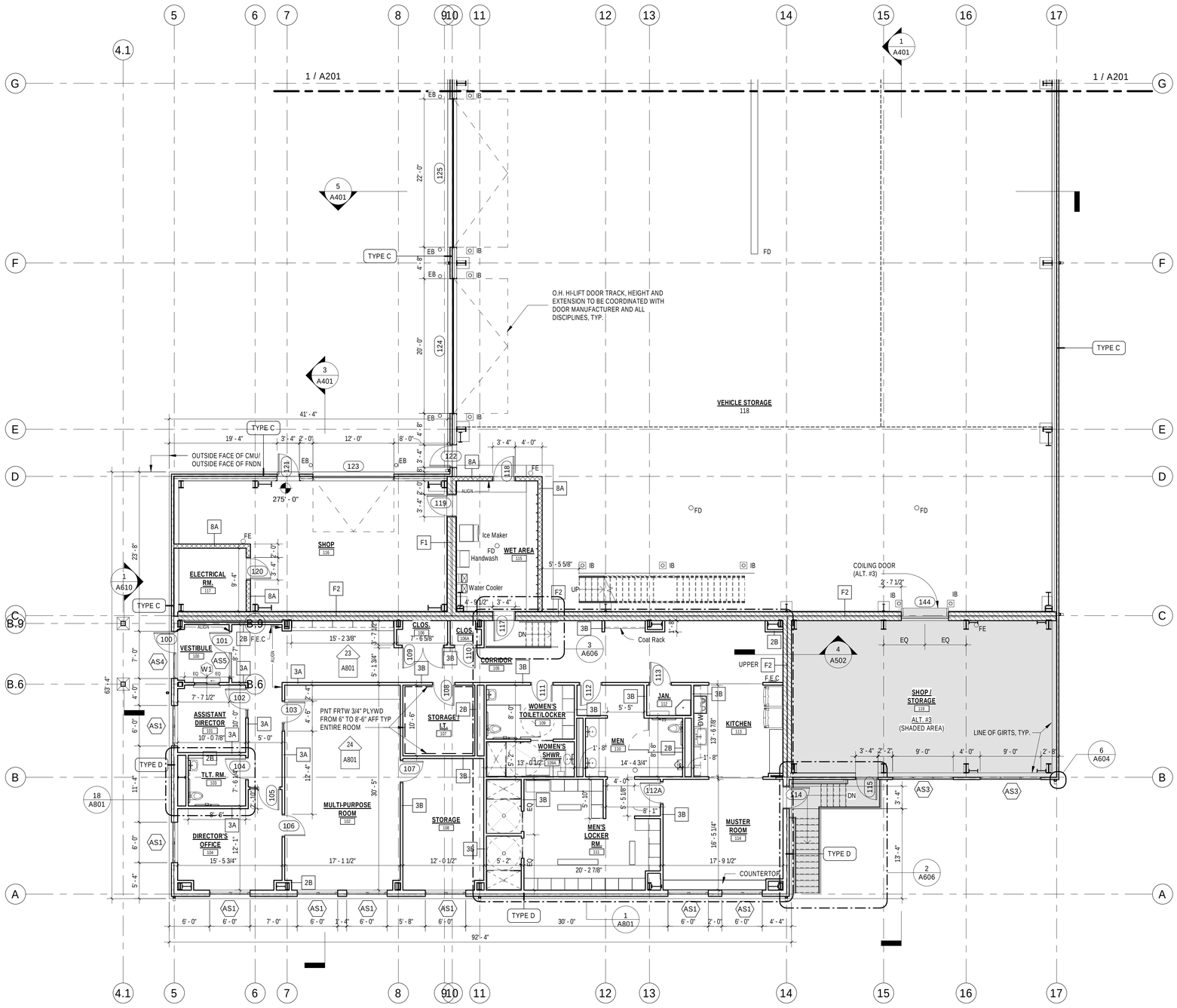
Drawing Title:

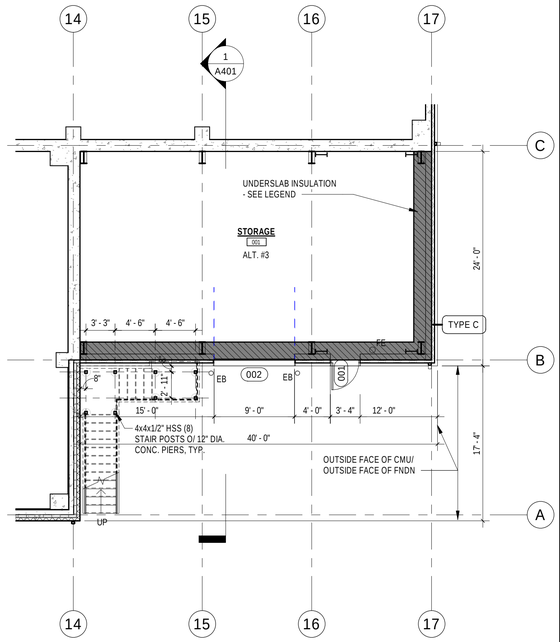
PARTIAL LARGE SCALE FIRST FLOOR PLAN "A"

Sheet Number:

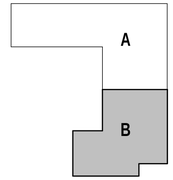
A201



1 PARTIAL LARGE SCALE FIRST FLOOR/ADMIN PLAN "B"
1/8" = 1'-0"



2 BASEMENT FLOOR PLAN - ALT. #3
1/8" = 1'-0"



FLOOR PLAN GENERAL NOTES:

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9. BOX-OUT DIMENSIONS ARE APPROXIMATE. GENERAL CONTRACTOR TO INSTALL TIGHT TO STRUCTURE, TYPICAL.

UNDERSLAB INSULATION LEGEND:

a) R-10 RIGID INSULATION
   - STANDARD COMPRESSIVE STRENGTH - 25 PSI
   - 2'-0" HORIZONTAL FROM FOUNDATION WALL INWARDS
   -2'-0" VERTICAL ON EXTERIOR SIDE OF FOUNDATION WALL

b) R-10 RIGID INSULATION
   - HIGH COMPRESSIVE STRENGTH - 60 PSI
   - 2'-0" HORIZONTAL FROM FOUNDATION WALL INWARDS
   -2'-0" VERTICAL ON EXTERIOR SIDE OF FOUNDATION WALL

Project:

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RHINEBECK ARCHITECTURE

Seal:

REGISTERED ARCHITECT
JOHN JOSEPH SHEEHY
022726
STATE OF NEW YORK

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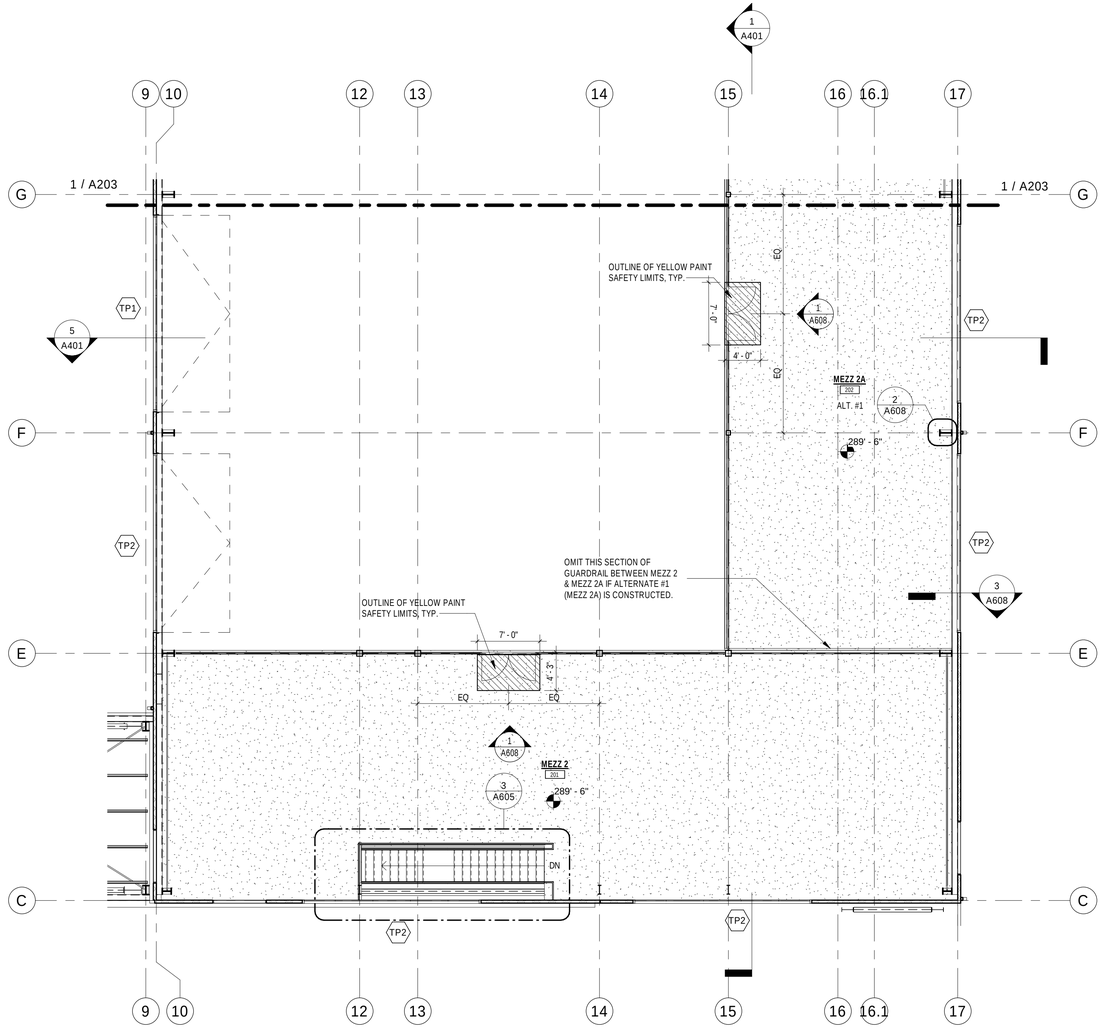
PARTIAL LARGE SCALE FIRST FLOOR/ADMIN PLAN "B" / BASEMENT PLAN

Sheet Number:

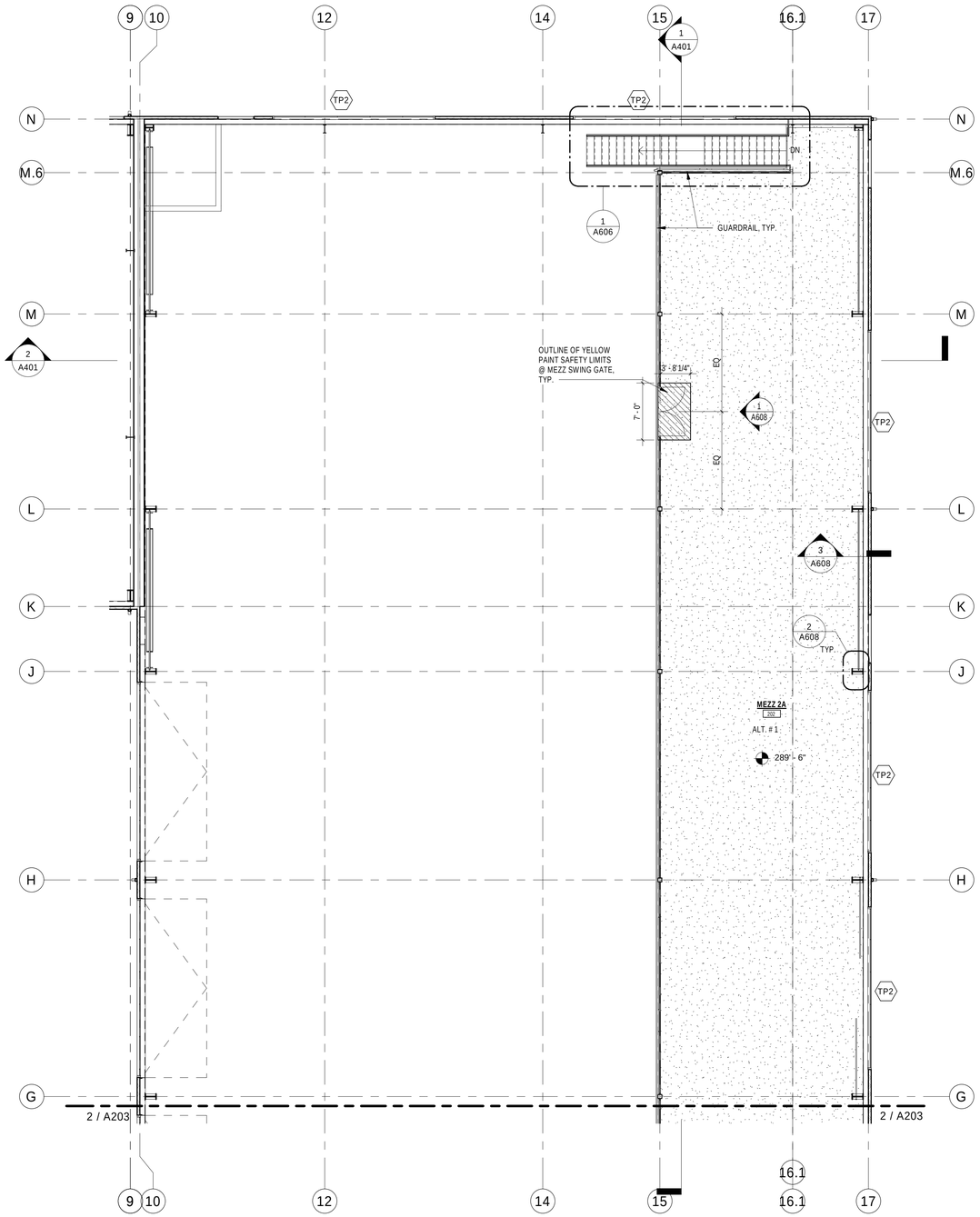
A202

MEZZANINE GENERAL NOTES

1. AT EACH MEZZANINE SWING GATE LOCATION, PROVIDE 4" H (RED) LETTER SIGNAGE AT MEZZANINE FASCIA TO READ: 250LBS/SF MAXIMUM MEZZANINE LOADING
2. PROVIDE 6'-0" SWING GATE TO MATCH ADJACENT RAILING SYSTEM AT EACH LOCATION INDICATED.
3. PROVIDE SAFETY CHAIN PER OSHA STANDARDS AT EACH SWING GATE.
4. PROVIDE SAFETY YELLOW PAINT AT MEZZANINE FLOOR AT EACH SWING GATE, AS INDICATED.
5. COORDINATE EXACT LOCATION WITH MECHANICAL, STRUCTURAL AND EQUIPMENT REQUIREMENTS.
6. DO NOT RUN ANY UTILITIES BELOW GATES EXPOSED AND MOUNTED TO WALLS.
7. PROVIDE TIE-OFF POINT FOR OSHA FALL ARREST SYSTEM NEAR MEZZANINE SWING-GATE ON PRIMARY STRUCTURAL ELEMENT.



2 MEZZANINE 2/2A FLOOR PLAN - LARGE SCALE
1/8" = 1'-0"



1 MEZZANINE 2A PARTIAL FLOOR PLAN
1/8" = 1'-0"

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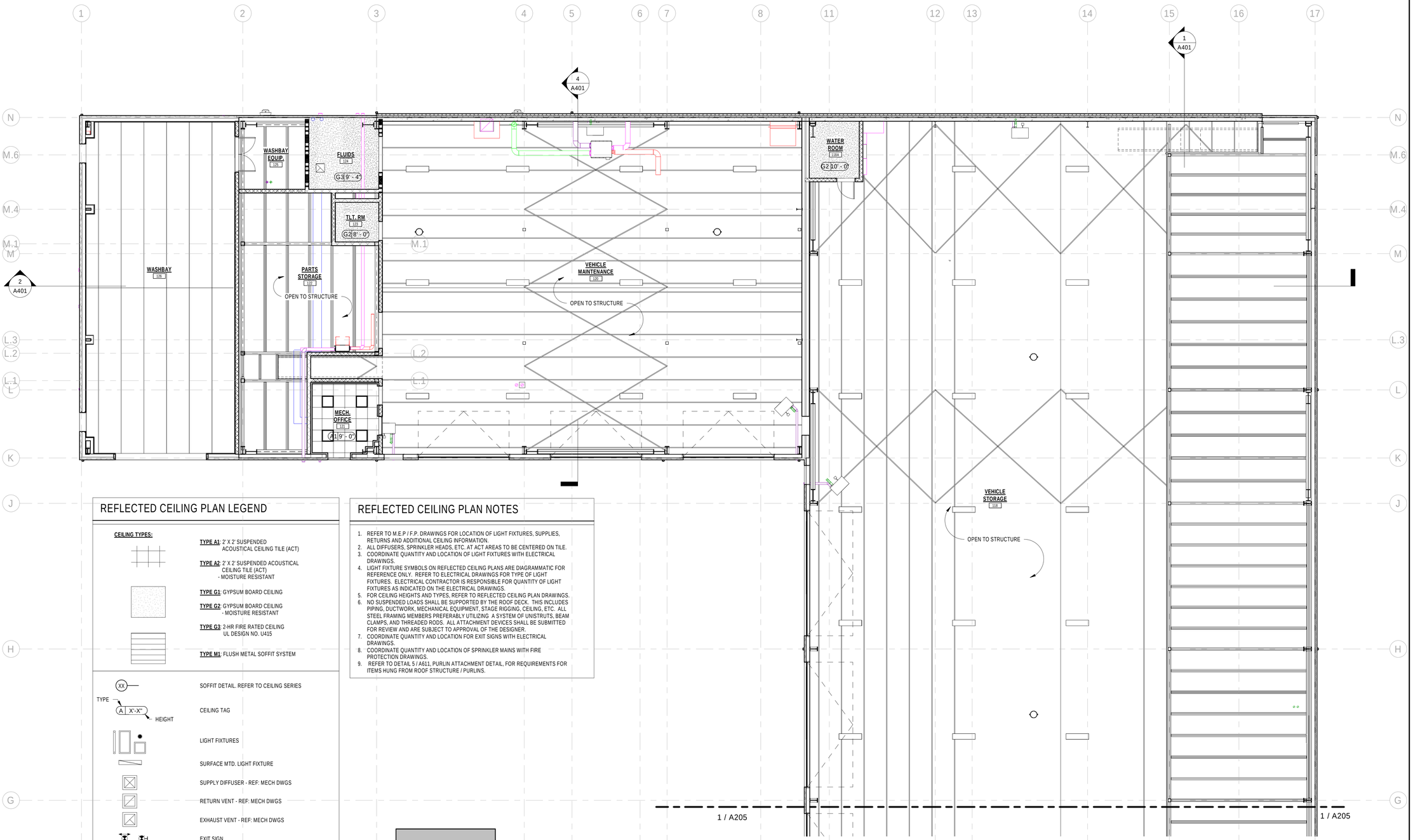
LARGE SCALE MEZZANINE PLANS

Sheet Number:

A203



REFLECTED CEILING PLAN LEGEND

CEILING TYPES:

TYPE A1: 2' X 2' SUSPENDED ACOUSTICAL CEILING TILE (ACT)

TYPE A2: 2' X 2' SUSPENDED ACOUSTICAL CEILING TILE (ACT) - MOISTURE RESISTANT

TYPE G1: GYPSUM BOARD CEILING

TYPE G2: GYPSUM BOARD CEILING - MOISTURE RESISTANT

TYPE G3: 2-HR FIRE RATED CEILING UL DESIGN NO. U415

TYPE M1: FLUSH METAL SOFFIT SYSTEM

XX — SOFFIT DETAIL. REFER TO CEILING SERIES

TYPE — A X'-X" — HEIGHT — CEILING TAG

LIGHT FIXTURES

SURFACE MTD. LIGHT FIXTURE

SUPPLY DIFFUSER - REF: MECH DWGS

RETURN VENT - REF: MECH DWGS

EXHAUST VENT - REF: MECH DWGS

EXIT SIGN

F — FIRE ALARM SPEAKER / VISUAL SIGNAL

F CLG — CEILING MOUNTED FIRE ALARM SPEAKER / VISUAL SIGNAL

F — FIRE ALARM VISUAL SIGNAL

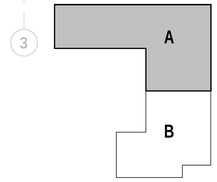
CEILING MOUNTED SPRINKLER

WALL MOUNTED SPRINKLER

WALL SCONCE (EXTERIOR & INTERIOR)

REFLECTED CEILING PLAN NOTES

1. REFER TO M.E.P / F.P. DRAWINGS FOR LOCATION OF LIGHT FIXTURES, SUPPLIES, RETURNS AND ADDITIONAL CEILING INFORMATION.
2. ALL DIFFUSERS, SPRINKLER HEADS, ETC. AT ACT AREAS TO BE CENTERED ON TILE.
3. COORDINATE QUANTITY AND LOCATION OF LIGHT FIXTURES WITH ELECTRICAL DRAWINGS.
4. LIGHT FIXTURE SYMBOLS ON REFLECTED CEILING PLANS ARE DIAGRAMMATIC FOR REFERENCE ONLY. REFER TO ELECTRICAL DRAWINGS FOR TYPE OF LIGHT FIXTURES. ELECTRICAL CONTRACTOR IS RESPONSIBLE FOR QUANTITY OF LIGHT FIXTURES AS INDICATED ON THE ELECTRICAL DRAWINGS.
5. FOR CEILING HEIGHTS AND TYPES, REFER TO REFLECTED CEILING PLAN DRAWINGS.
6. NO SUSPENDED LOADS SHALL BE SUPPORTED BY THE ROOF DECK. THIS INCLUDES PIPING, DUCTWORK, MECHANICAL EQUIPMENT, STAGE RIGGING, CEILING, ETC. ALL STEEL FRAMING MEMBERS PREFERABLY UTILIZING A SYSTEM OF UNISTRUTS, BEAM CLAMPS, AND THREADED RODS. ALL ATTACHMENT DEVICES SHALL BE SUBMITTED FOR REVIEW AND ARE SUBJECT TO APPROVAL OF THE DESIGNER.
7. COORDINATE QUANTITY AND LOCATION FOR EXIT SIGNS WITH ELECTRICAL DRAWINGS.
8. COORDINATE QUANTITY AND LOCATION OF SPRINKLER MAINS WITH FIRE PROTECTION DRAWINGS.
9. REFER TO DETAIL 5 / A611, PURLIN ATTACHMENT DETAIL, FOR REQUIREMENTS FOR ITEMS HUNG FROM ROOF STRUCTURE / PURLINS.



1 PARTIAL LARGE SCALE FIRST FLOOR PLAN RCP "A"
1/8" = 1'-0"

Project:

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NEW PUBLIC WORKS FACILITY

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RHINEBECK ARCHITECTURE

Seal:

REGISTERED ARCHITECT JOHN JOSEPH SARGENT 022726 STATE OF NEW YORK

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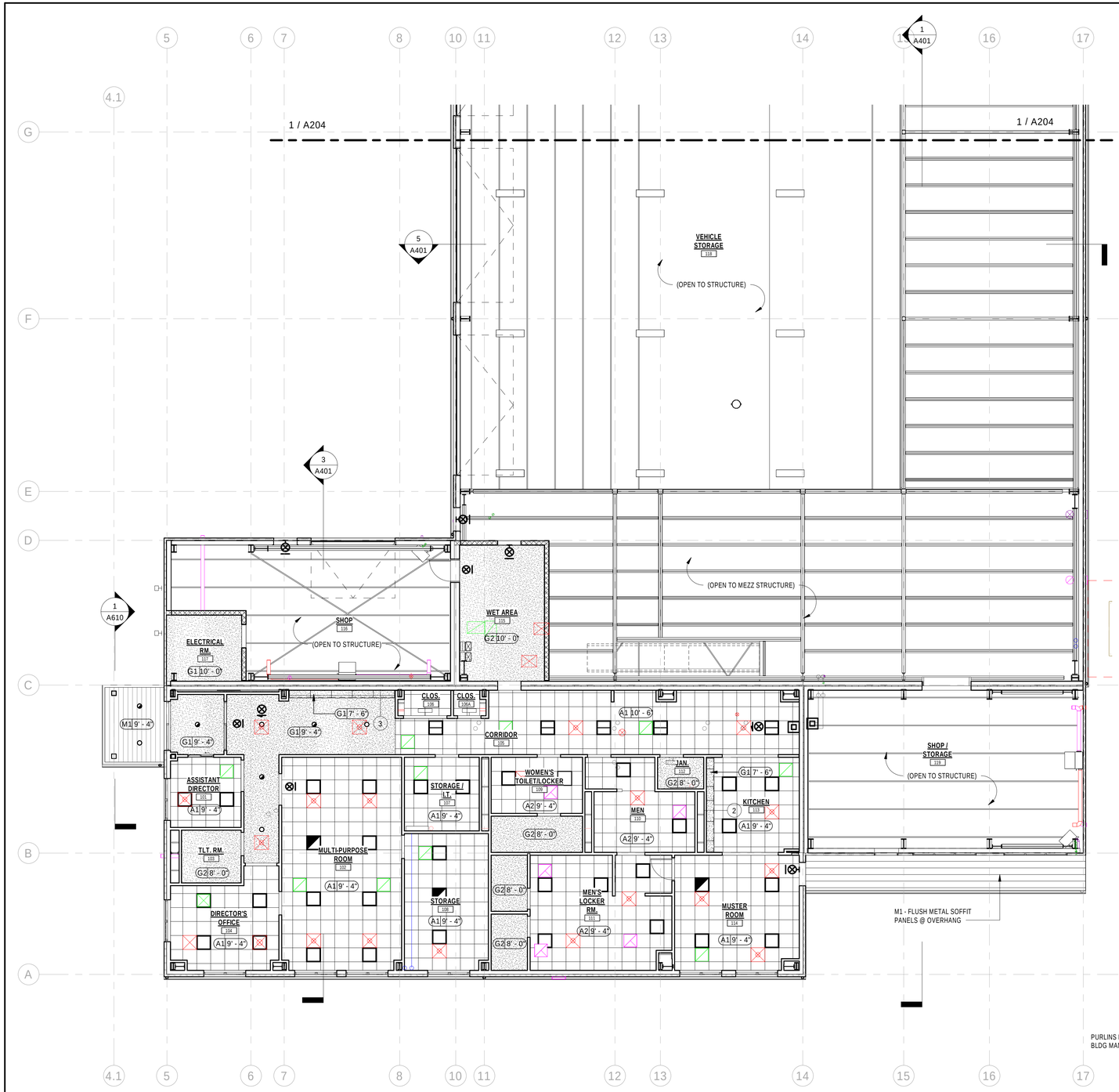
PARTIAL LARGE SCALE FIRST FLOOR RCP "A"

Sheet Number:

A204



REFLECTED CEILING PLAN NOTES

1. REFER TO M.E.P / F.P. DRAWINGS FOR LOCATION OF LIGHT FIXTURES, SUPPLIES, RETURNS AND ADDITIONAL CEILING INFORMATION.
2. ALL DIFFUSERS, SPRINKLER HEADS, ETC. AT ACT AREAS TO BE CENTERED ON TILE.
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5. FOR CEILING HEIGHTS AND TYPES, REFER TO REFLECTED CEILING PLAN DRAWINGS.
6. NO SUSPENDED LOADS SHALL BE SUPPORTED BY THE ROOF DECK. THIS INCLUDES PIPING, DUCTWORK, MECHANICAL EQUIPMENT, STAGE RIGGING, CEILING, ETC. ALL STEEL FRAMING MEMBERS PREFERABLY UTILIZING A SYSTEM OF UNISTRUTS, BEAM CLAMPS, AND THREADED RODS. ALL ATTACHMENT DEVICES SHALL BE SUBMITTED FOR REVIEW AND ARE SUBJECT TO APPROVAL OF THE DESIGNER.
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CEILING TYPES:

- **TYPE A1**: 2' X 2' SUSPENDED ACOUSTICAL CEILING TILE (ACT)
- **TYPE A2**: 2' X 2' SUSPENDED ACOUSTICAL CEILING TILE (ACT) - MOISTURE RESISTANT
- **TYPE G1**: GYPSUM BOARD CEILING
- **TYPE G2**: GYPSUM BOARD CEILING - MOISTURE RESISTANT
- **TYPE G3**: 2-HR FIRE RATED CEILING UL DESIGN NO. U415
- **TYPE M1**: FLUSH METAL SOFFIT SYSTEM

- XX — SOFFIT DETAIL. REFER TO CEILING SERIES
- TYPE / A / X'-X" / HEIGHT — CEILING TAG
- LIGHT FIXTURES
- SURFACE MTD. LIGHT FIXTURE
- SUPPLY DIFFUSER - REF: MECH DWGS
- RETURN VENT - REF: MECH DWGS
- EXHAUST VENT - REF: MECH DWGS
- EXIT SIGN
- F — FIRE ALARM SPEAKER / VISUAL SIGNAL
- F CLG — CEILING MOUNTED FIRE ALARM SPEAKER / VISUAL SIGNAL
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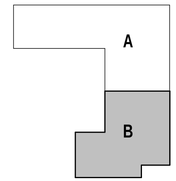
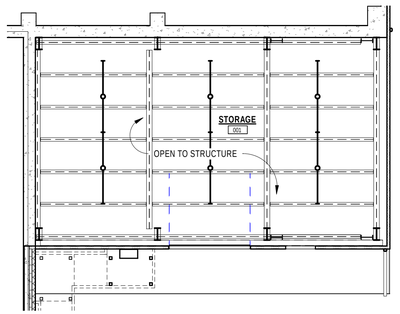
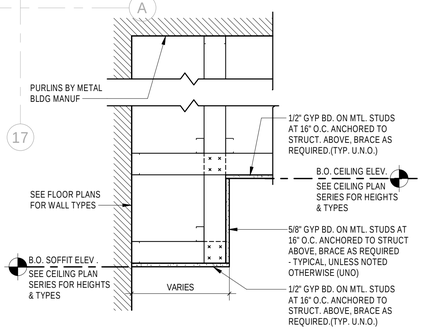
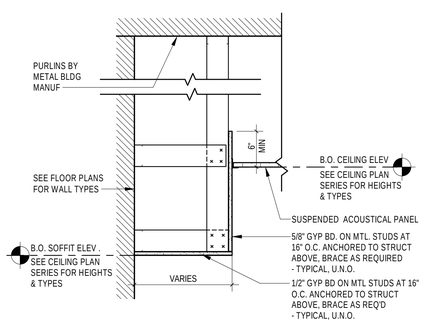




4 BASEMENT FLOOR RCP
1/8" = 1'-0"



3 SOFFIT DETAIL
1" = 1'-0"



2 SOFFIT DETAIL
1" = 1'-0"

1 PARTIAL LARGE SCALE FIRST FLOOR/ADMIN PLAN RCP "B"
1/8" = 1'-0"

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RHINEBECK ARCHITECTURE

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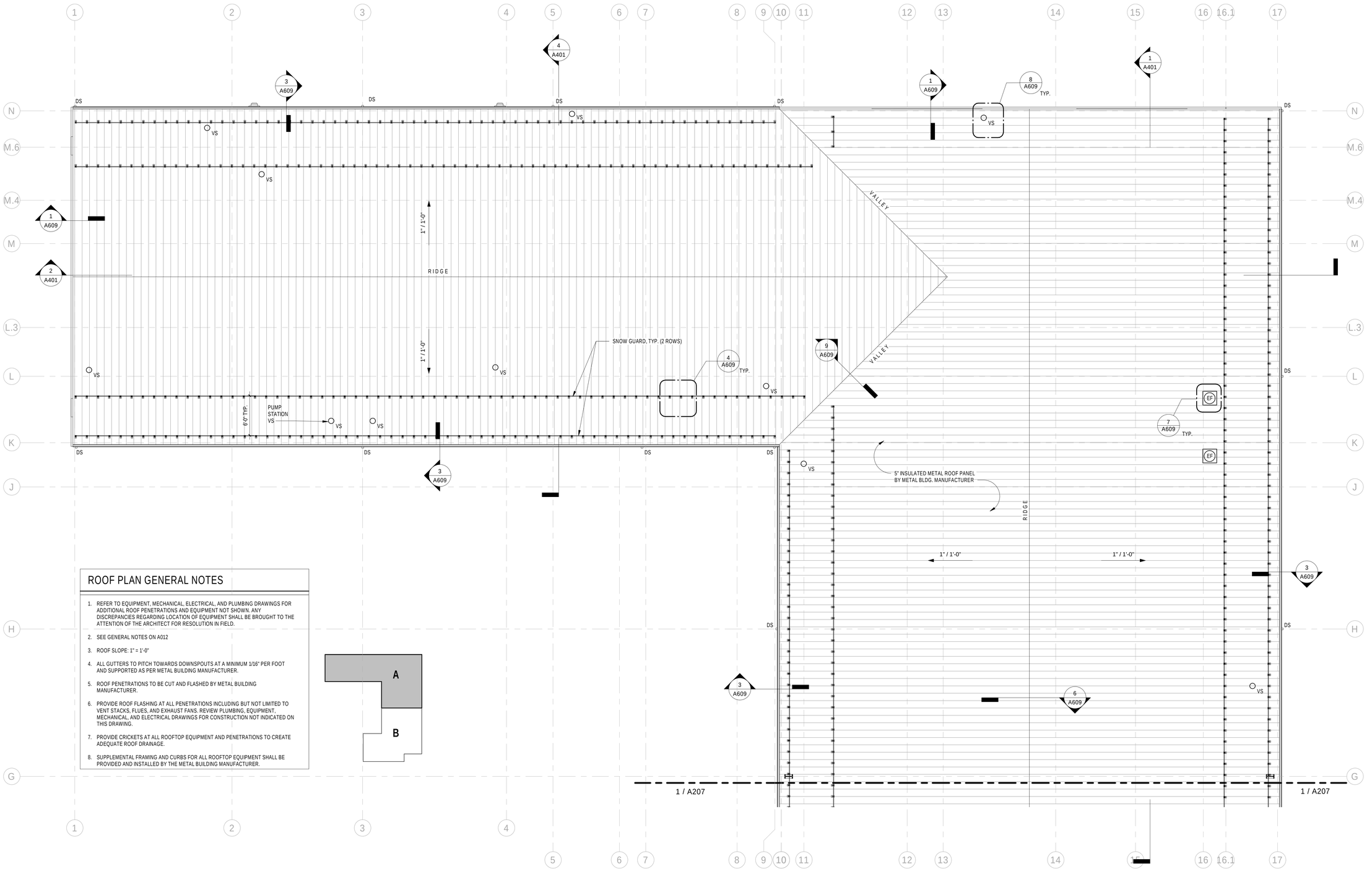
PARTIAL LARGE SCALE FIRST FLOOR RCP "B"

Sheet Number:

A205



ROOF PLAN GENERAL NOTES

1. REFER TO EQUIPMENT, MECHANICAL, ELECTRICAL, AND PLUMBING DRAWINGS FOR ADDITIONAL ROOF PENETRATIONS AND EQUIPMENT NOT SHOWN. ANY DISCREPANCIES REGARDING LOCATION OF EQUIPMENT SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT FOR RESOLUTION IN FIELD.
2. SEE GENERAL NOTES ON A012
3. ROOF SLOPE: 1" = 1'-0"
4. ALL GUTTERS TO PITCH TOWARDS DOWNSPOUTS AT A MINIMUM 1/16" PER FOOT AND SUPPORTED AS PER METAL BUILDING MANUFACTURER.
5. ROOF PENETRATIONS TO BE CUT AND FLASHED BY METAL BUILDING MANUFACTURER.
6. PROVIDE ROOF FLASHING AT ALL PENETRATIONS INCLUDING BUT NOT LIMITED TO VENT STACKS, FLUES, AND EXHAUST FANS. REVIEW PLUMBING, EQUIPMENT, MECHANICAL, AND ELECTRICAL DRAWINGS FOR CONSTRUCTION NOT INDICATED ON THIS DRAWING.
7. PROVIDE CRICKETS AT ALL ROOFTOP EQUIPMENT AND PENETRATIONS TO CREATE ADEQUATE ROOF DRAINAGE.
8. SUPPLEMENTAL FRAMING AND CURBS FOR ALL ROOFTOP EQUIPMENT SHALL BE PROVIDED AND INSTALLED BY THE METAL BUILDING MANUFACTURER.

1 LARGE SCALE ROOF PLAN "A"
1/8" = 1'-0"

Project:

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RHINEBECK ARCHITECTURE

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W&S Project No:	N2190088

Drawing Title:

PARTIAL LARGE SCALE ROOF PLAN "A"

Sheet Number:

A206

ROOF PLAN GENERAL NOTES

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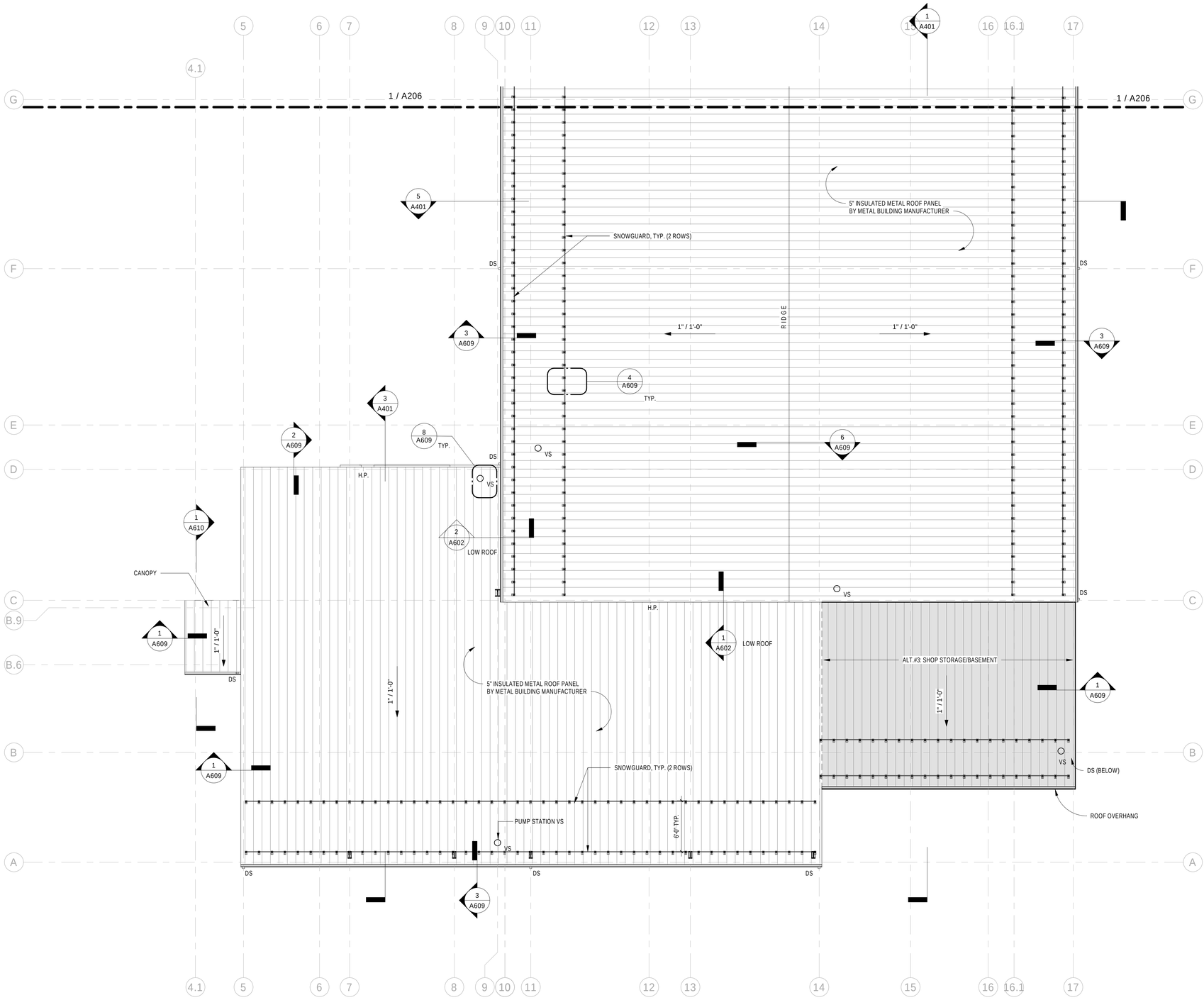
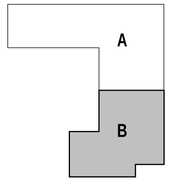
2. SEE GENERAL NOTES ON A012
3. ROOF SLOPE: 1" = 1'-0"
4. ALL GUTTERS TO PITCH TOWARDS DOWNSPOUTS AT A MINIMUM 1/16" PER FOOT AND SUPPORTED AS PER METAL BUILDING MANUFACTURER.
5. ROOF PENETRATIONS TO BE CUT AND FLASHED BY METAL BUILDING MANUFACTURER.
6. PROVIDE ROOF FLASHING AT ALL PENETRATIONS INCLUDING BUT NOT LIMITED TO VENT STACKS, FLUES, AND EXHAUST FANS. REVIEW PLUMBING, EQUIPMENT, MECHANICAL, AND ELECTRICAL DRAWINGS FOR CONSTRUCTION NOT INDICATED ON THIS DRAWING.
7. PROVIDE CRICKETS AT ALL ROOFTOP EQUIPMENT AND PENETRATIONS TO CREATE ADEQUATE ROOF DRAINAGE.
8. SUPPLEMENTAL FRAMING AND CURBS FOR ALL ROOFTOP EQUIPMENT SHALL BE PROVIDED AND INSTALLED BY THE METAL BUILDING MANUFACTURER.



1 LARGE SCALE ROOF PLAN "B"
1/8" = 1'-0"



Project:

VILLAGE OF ARDSLEY

NEW PUBLIC WORKS FACILITY

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NEW YORK 10502

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RHINEBECK ARCHITECTURE

Seal:

REGISTERED ARCHITECT JOHN JOSEPH SARGENT STATE OF NEW YORK 022726

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Reviewed By:	JS
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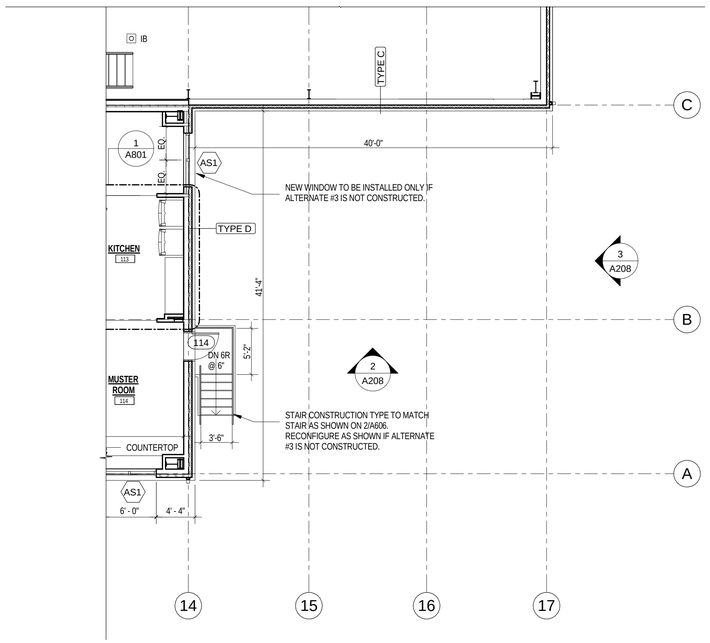
W&S Project No:	N2190088

Drawing Title:

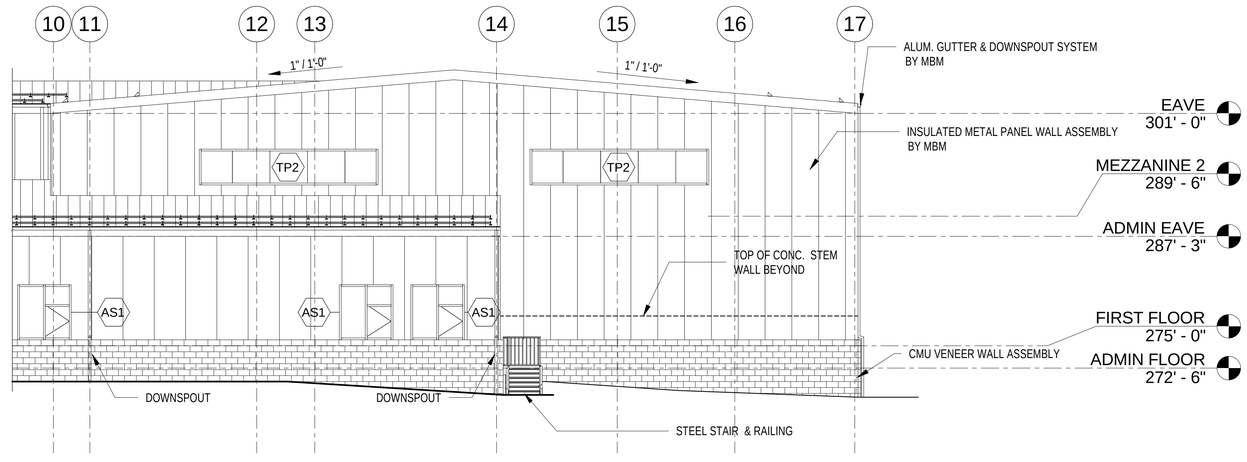
PARTIAL LARGE SCALE ROOF PLAN "B"

Sheet Number:

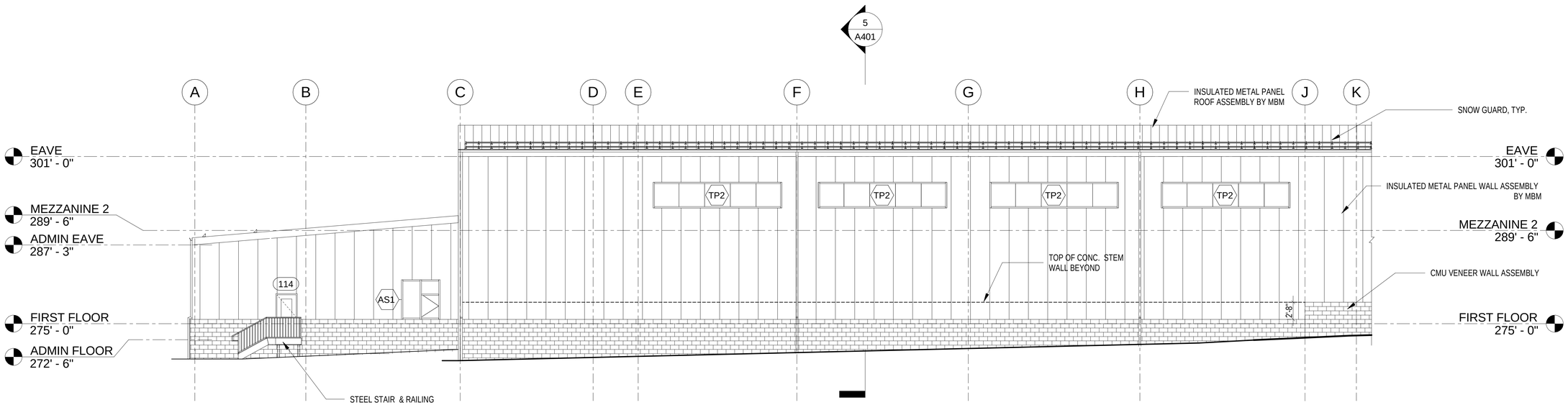
A207



1 DEDUCT ALTERNATE 3 - PARTIAL FLOOR PLAN
1/8" = 1'-0"



2 DEDUCT ALTERNATE 3 - PARTIAL SOUTH ELEVATION
1/8" = 1'-0"



3 DEDUCT ALTERNATE 3 - PARTIAL EAST ELEVATION
1/8" = 1'-0"

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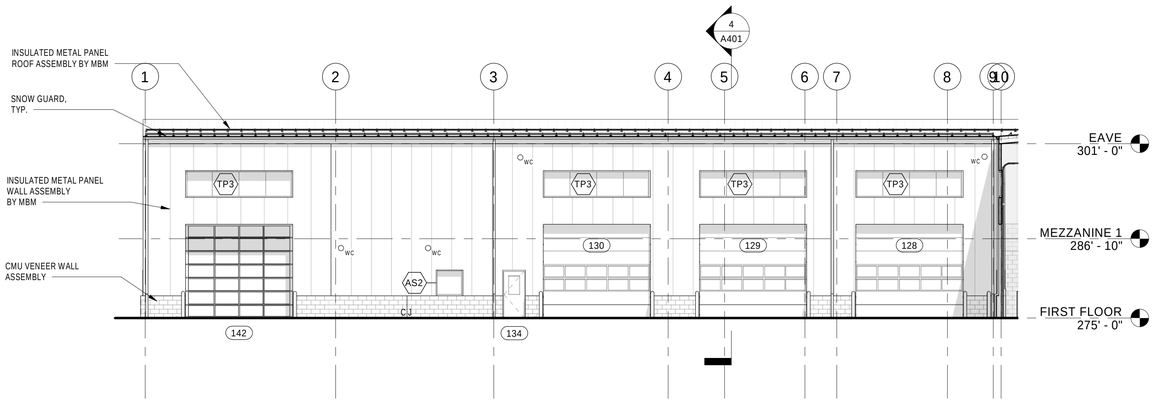
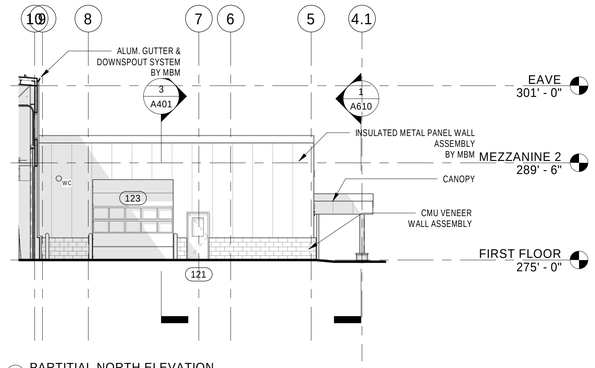
DEDUCT ALERNATE #3 - PARTIAL FLOOR PLAN & EXTERIOR ELEVATIONS

Sheet Number:

A208



3 PARTIAL SOUTH ELEVATION
3/32" = 1'-0"



4 PARTITIAL NORTH ELEVATION
3/32" = 1'-0"

WALL PANEL LEGEND:

EXTENT OF INSULATED WALL PANELS — 3' - 0"

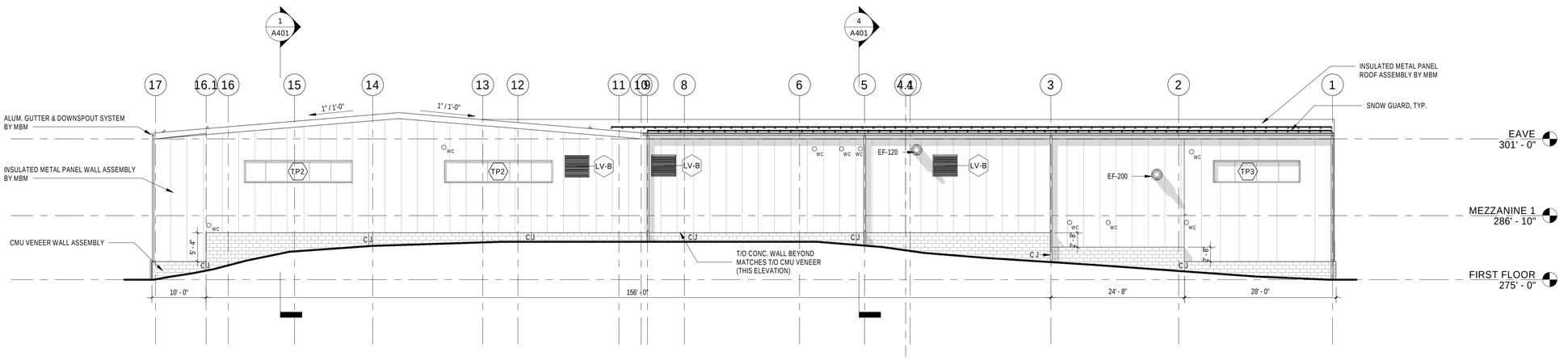
HVAC WALL CAP — WC

CMU VENEER LEGEND:

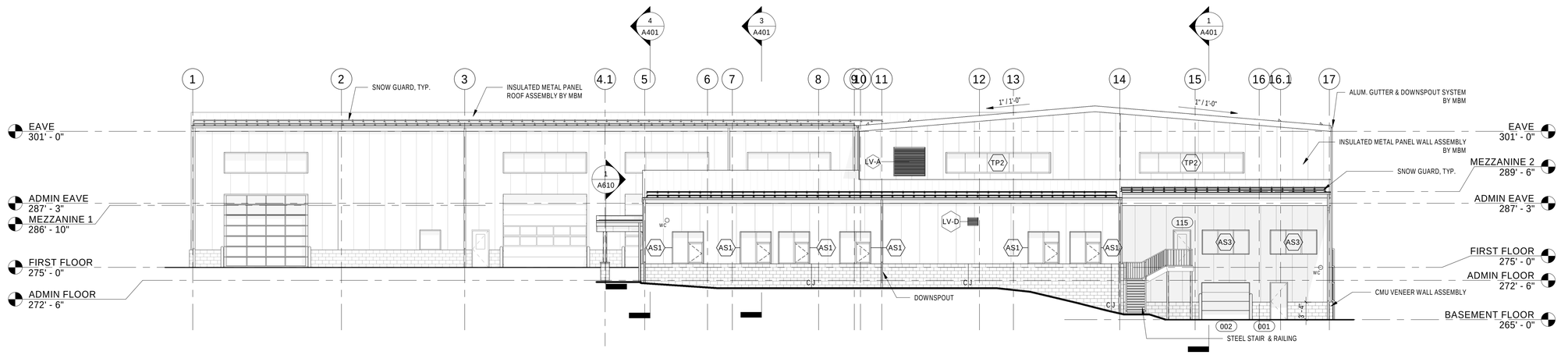
TYPE 1 - STANDARD GROUND FACE MASONRY BLOCK: 8" T X 16" W X 4" D

CONTROL JOINT LOCATION
- REFER TO DETAIL 1/A603 & 3/A603 FOR ADDITIONAL INFO — C J

NOTES:
1. COORDINATE OPENINGS NOT SHOWN WITH MEP DRAWINGS



2 NORTH ELEVATION
3/32" = 1'-0"



1 SOUTH ELEVATION
3/32" = 1'-0"

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RHINEBECK ARCHITECTURE

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Approved By: JS/BG

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EXTERIOR ELEVATIONS I

Sheet Number:

A301

WALL PANEL LEGEND:

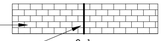
EXTENT OF INSULATED WALL PANELS

HVAC WALL CAP — WC

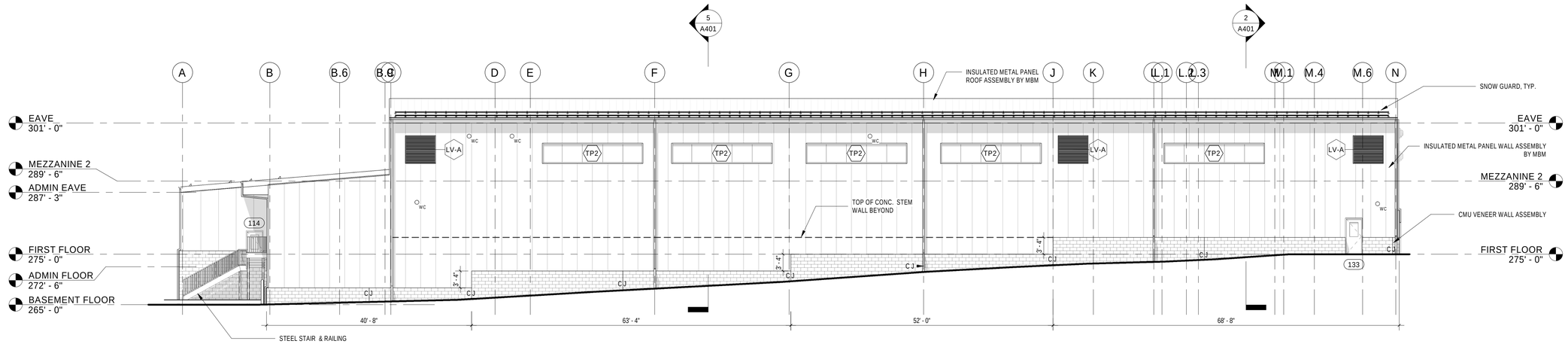
CMU VENEER LEGEND:

TYPE 1 - STANDARD GROUND FACE MASONRY BLOCK: 8" T X 16" W X 4" D

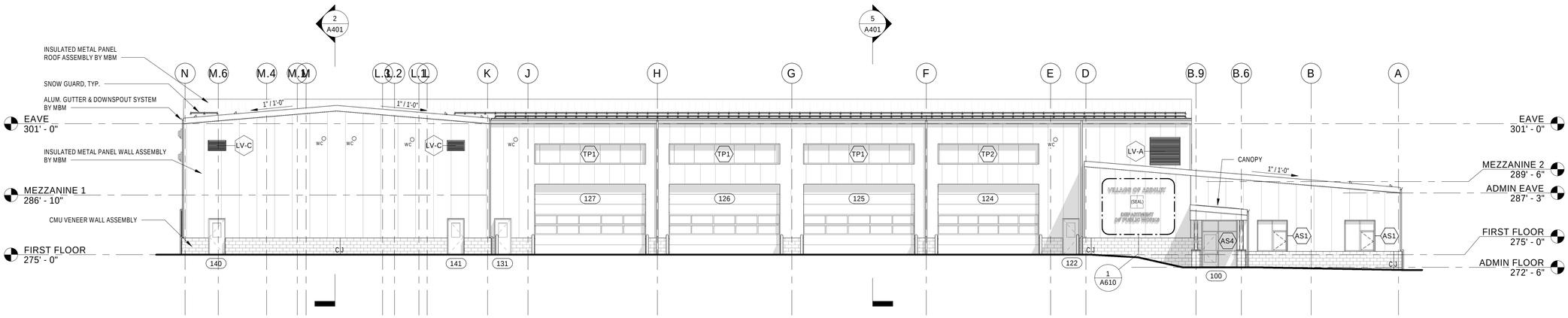
CONTROL JOINT LOCATION
- REFER TO DETAIL 1/A603 & 3/A603 FOR ADDITIONAL INFO



NOTES:
1. COORDINATE OPENINGS NOT SHOWN WITH MEP DRAWINGS



2 EAST ELEVATION
3/32" = 1'-0"



1 WEST ELEVATION
3/32" = 1'-0"

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RHINEBECK ARCHITECTURE

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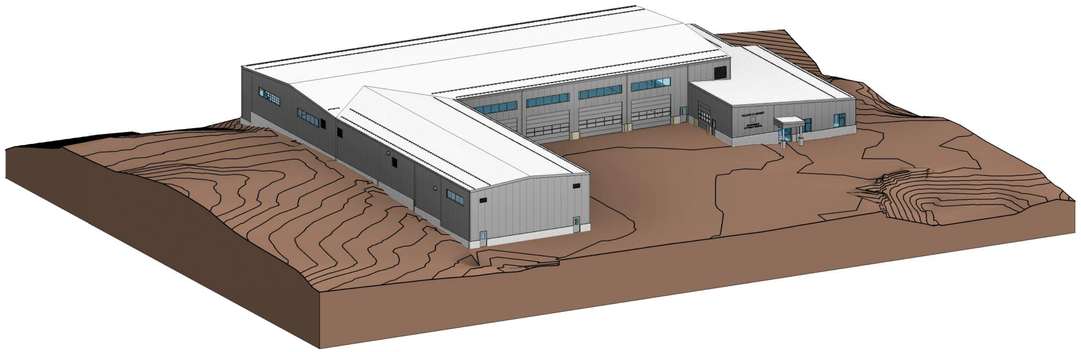
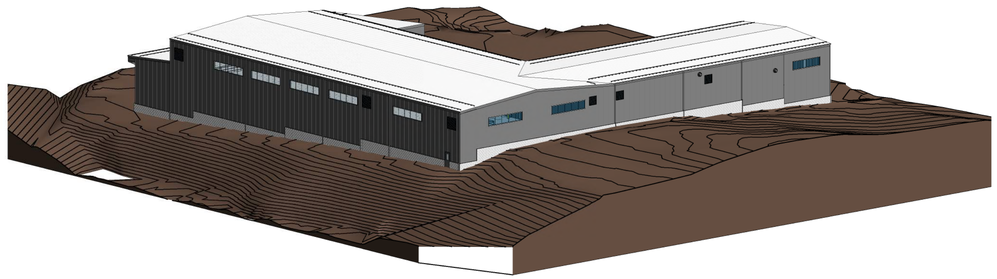
EXTERIOR ELEVATIONS II

Sheet Number:

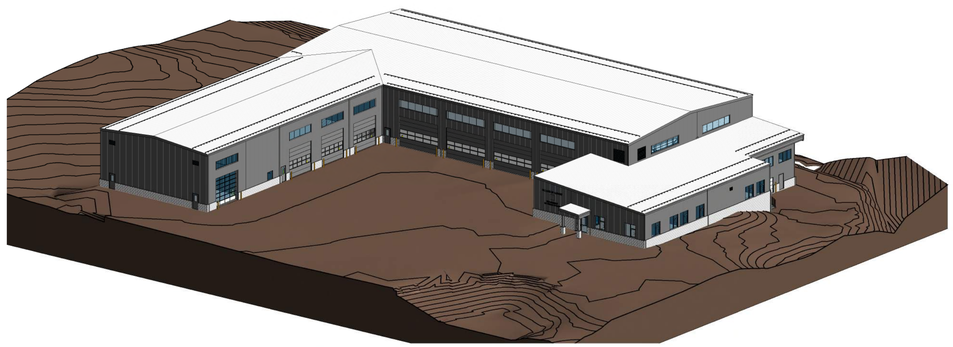
A302



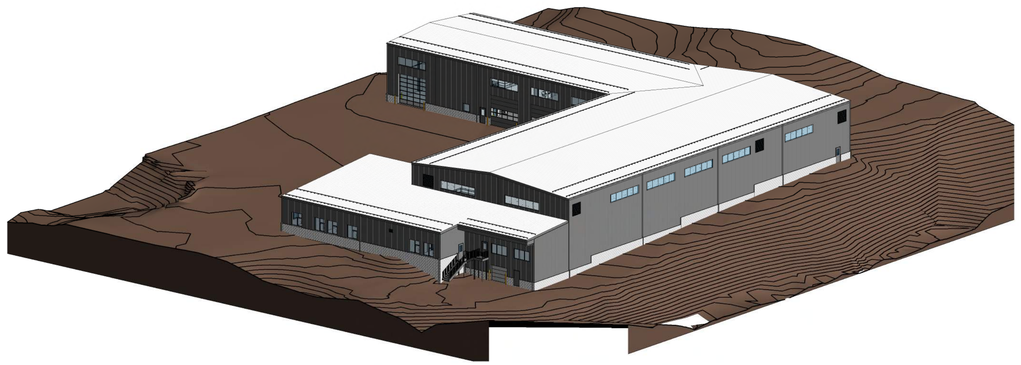
2 NORTHWEST VIEW



1 NORTHEAST VIEW



4 SOUTHWEST VIEW



3 SOUTHEAST VIEW

NOTE: 3D VIEWS ARE PROVIDED FOR REFERENCE ONLY. REFER TO PLANS, ELEVATIONS, SECTIONS, DETAILS AND SCHEDULES FOR BUILDING REQUIREMENTS.

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RHINEBECK ARCHITECTURE

Seal:

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022726
STATE OF NEW YORK

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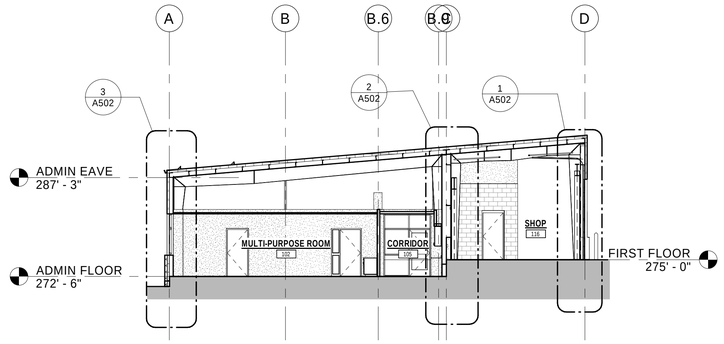
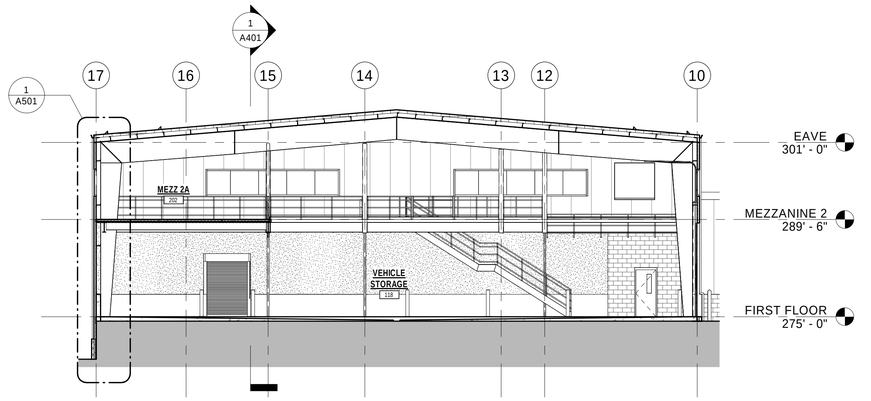
EXTERIOR 3D VIEWS

Sheet Number:

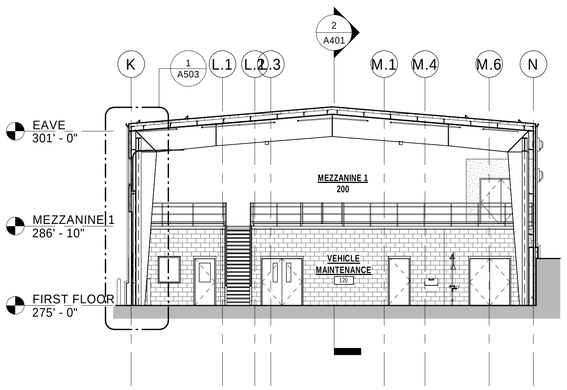
A303



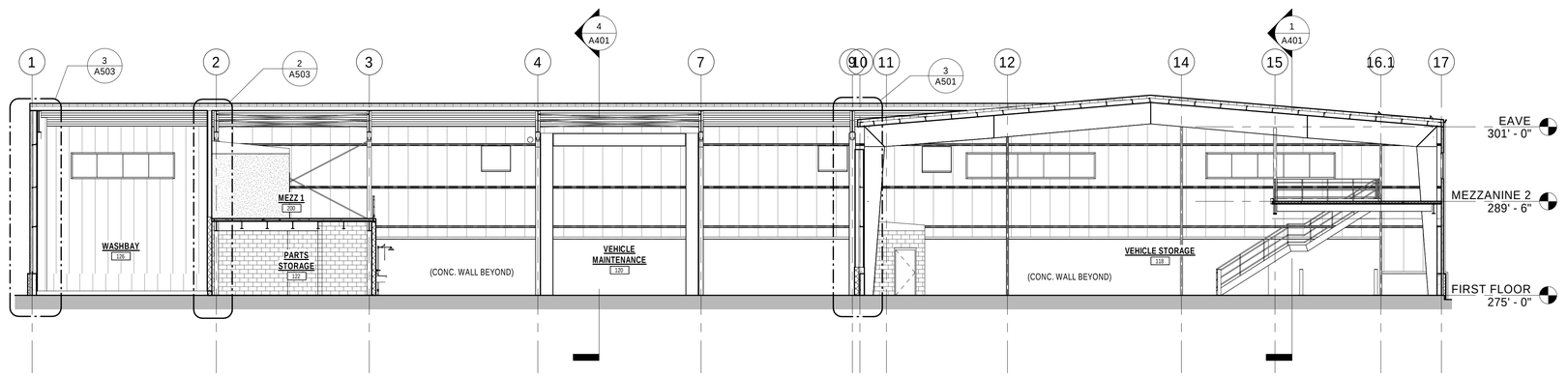
3 BUILDING SECTION - SHOP AND ADMINISTRATION LOOKING WEST
3/32" = 1'-0"



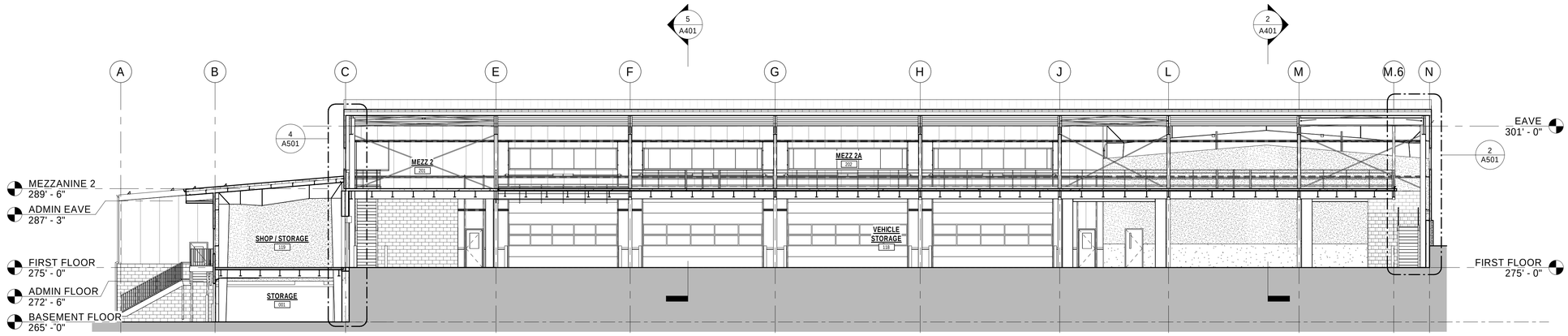
5 BUILDING SECTION - VEHICLE STORAGE LOOKING SOUTH
3/32" = 1'-0"



4 BUILDING SECTION - VEHICLE MAINTENANCE LOOKING WEST
3/32" = 1'-0"



2 BUILDING SECTION - VEHICLE STORAGE/MAINTENANCE AND WASHBAY LOOKING NORTH
3/32" = 1'-0"



1 BUILDING SECTION - VEHICLE STORAGE LOOKING WEST
3/32" = 1'-0"

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RHINEBECK ARCHITECTURE

Seal:

REGISTERED ARCHITECT
JOHN JOSEPH SARGENT
022726
STATE OF NEW YORK

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BUILDING SECTIONS

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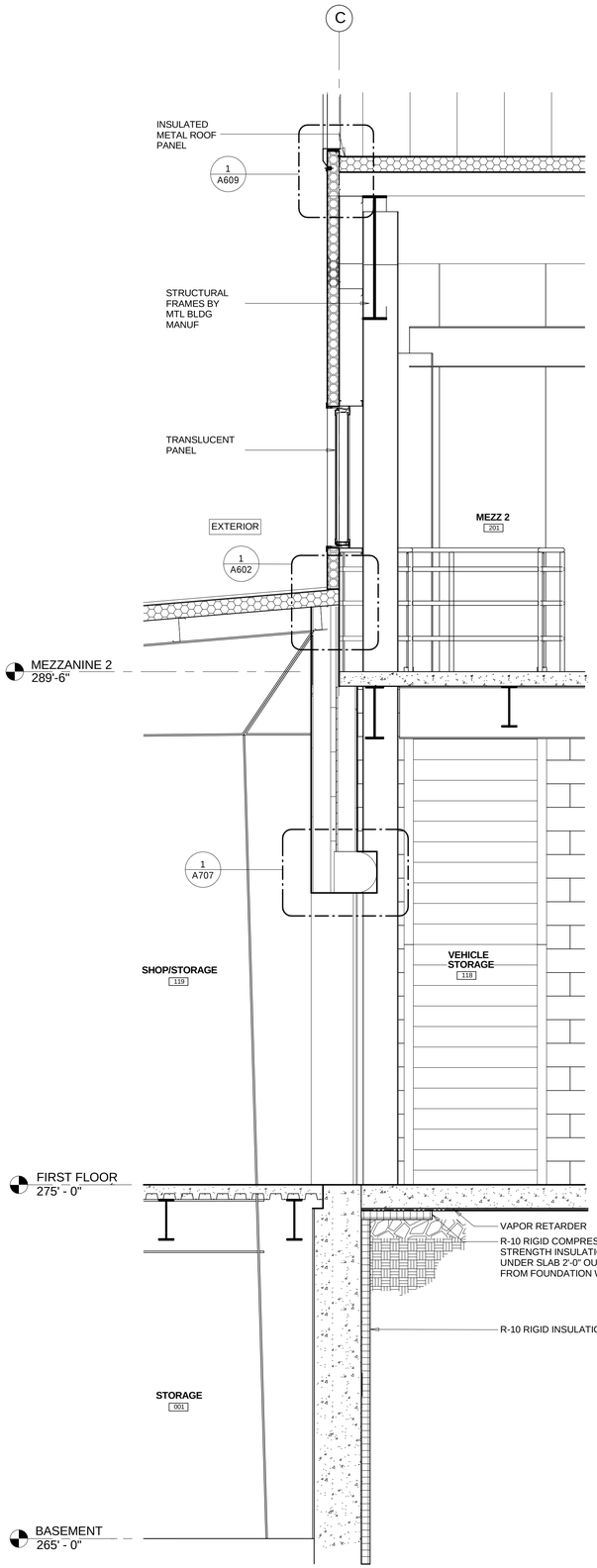
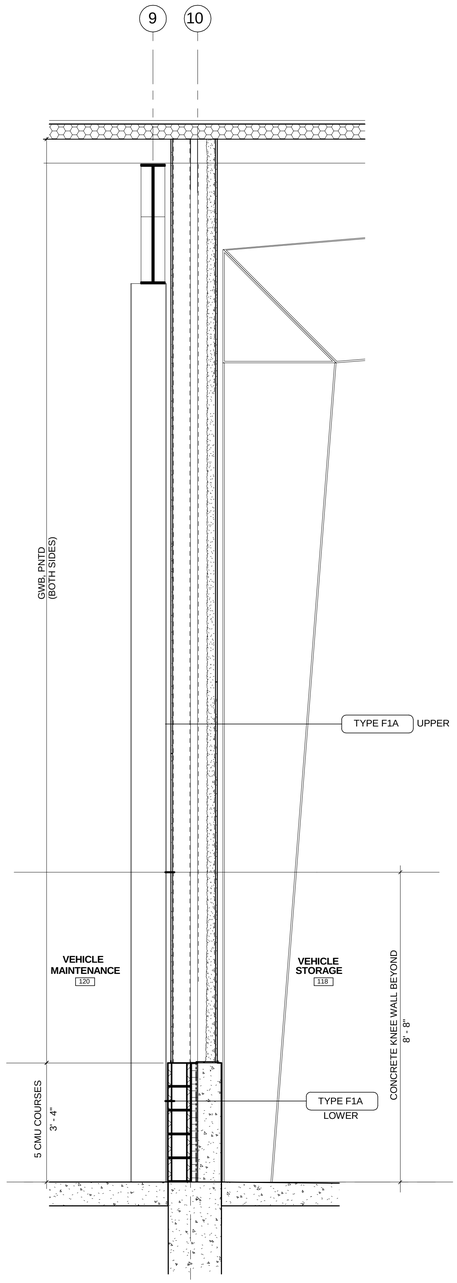
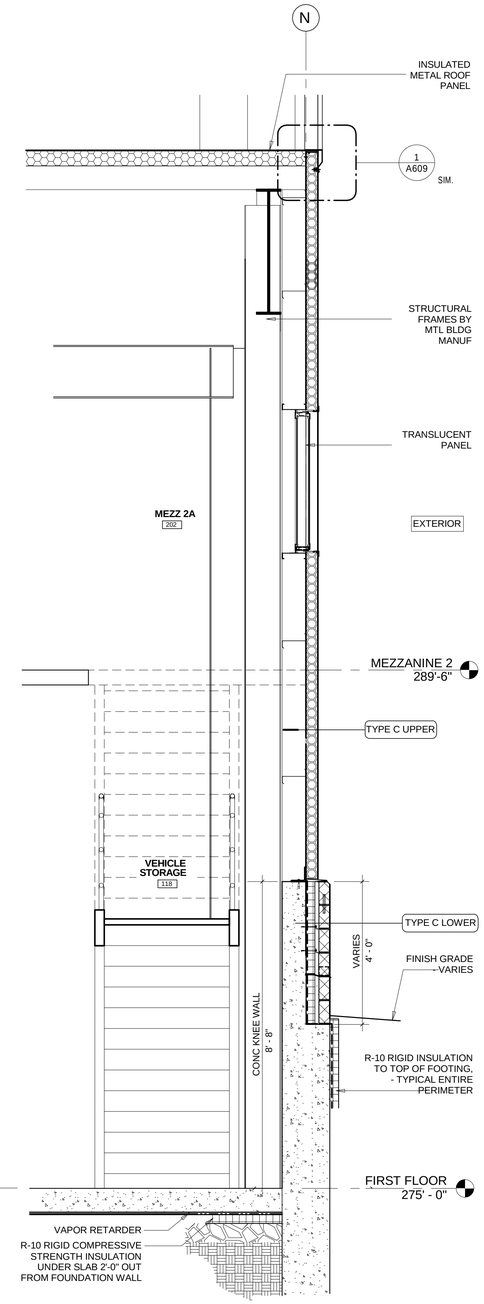
A401



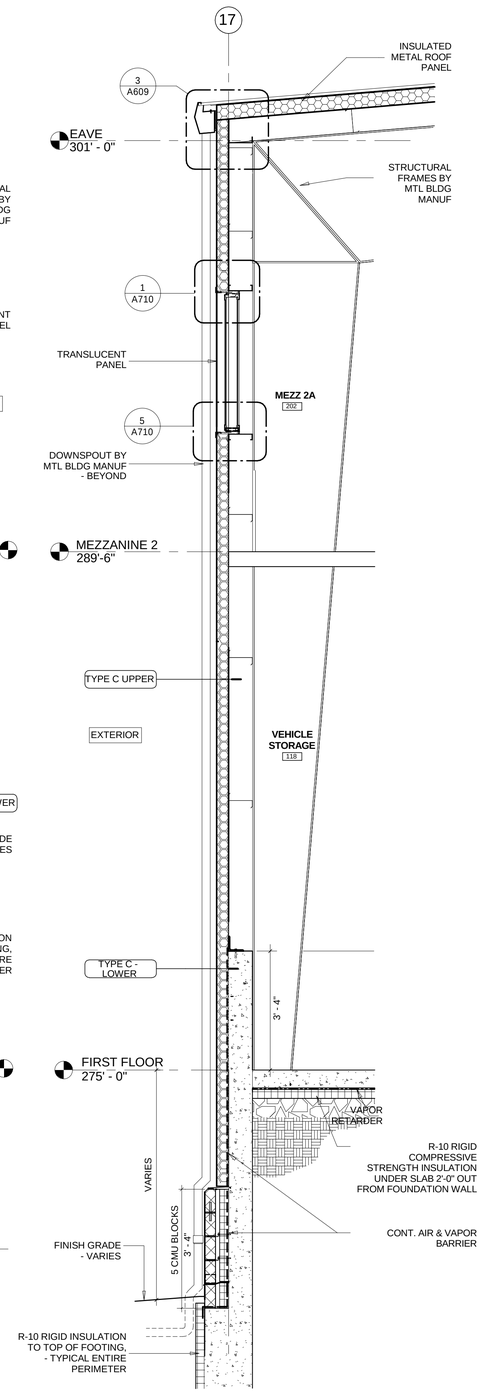
4 WALL SECTION - VEHICLE STORAGE/BASEMENT LEVEL
1/2" = 1'-0"



3 WALL SECTION - VEHICLE STORAGE/MAINT. FUME SEPARATION
1/2" = 1'-0"



2 WALL SECTION - VEHICLE STORAGE RAKE
1/2" = 1'-0"



1 WALL SECTION - VEHICLE STORAGE
1/2" = 1'-0"

Project:

VILLAGE OF ARDSLEY

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RHINEBECK ARCHITECTURE

Seal:

REGISTERED ARCHITECT JOHN JOSEPH MANGAN 022726 STATE OF NEW YORK

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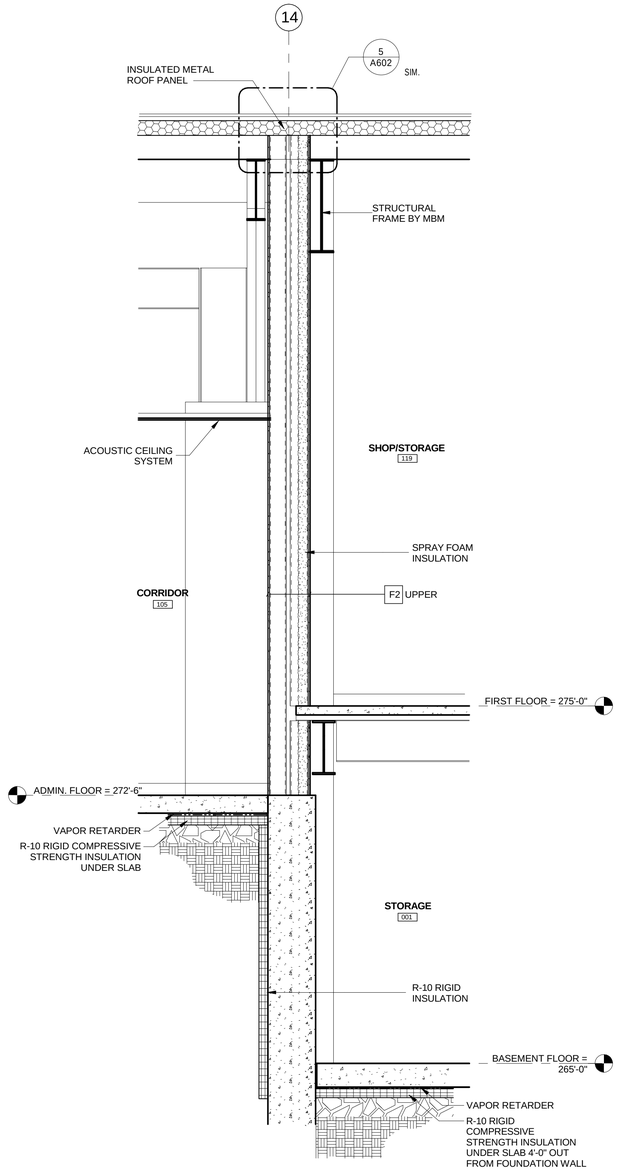
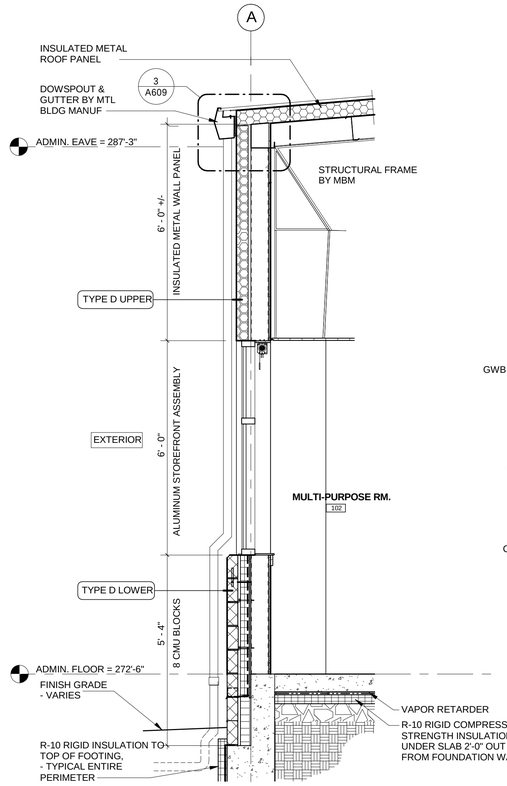
WALL SECTIONS

Sheet Number:

A501



4 WALL SECTION - SHOP/ADMINISTRATION SEPARATION II
1/2" = 1'-0"



3 WALL SECTION - ADMINISTRATION
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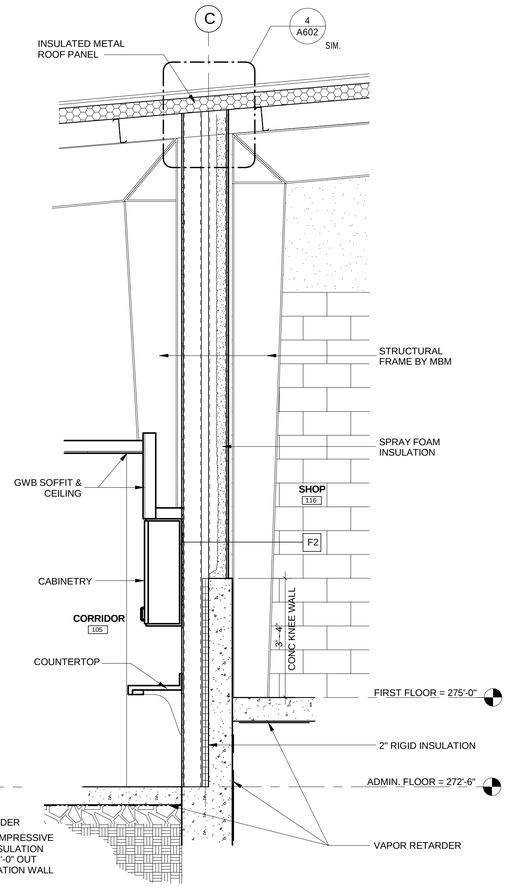
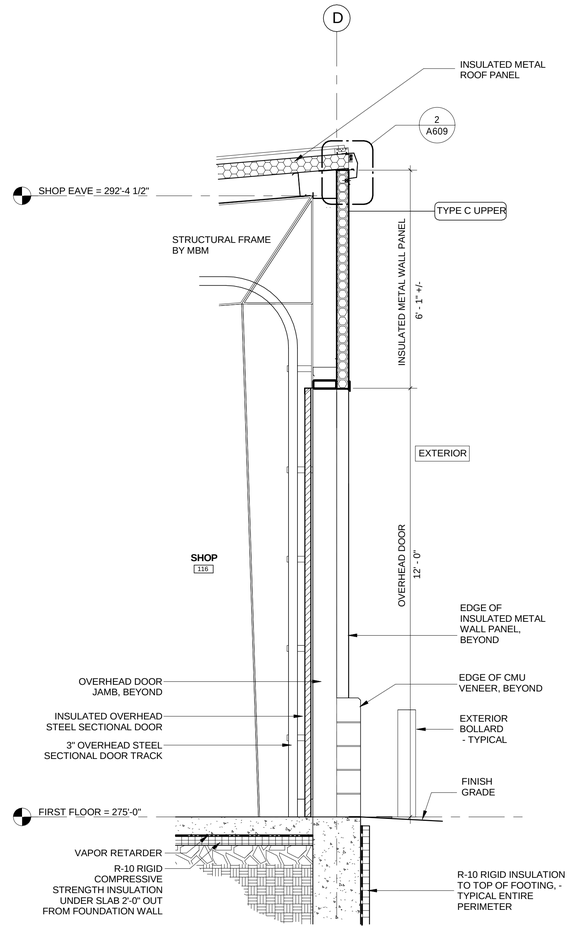


2 WALL SECTION - SHOP/ADMINISTRATION SEPARATION
1/2" = 1'-0"



1 WALL SECTION - SHOP
1/2" = 1'-0"

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WALL SECTIONS

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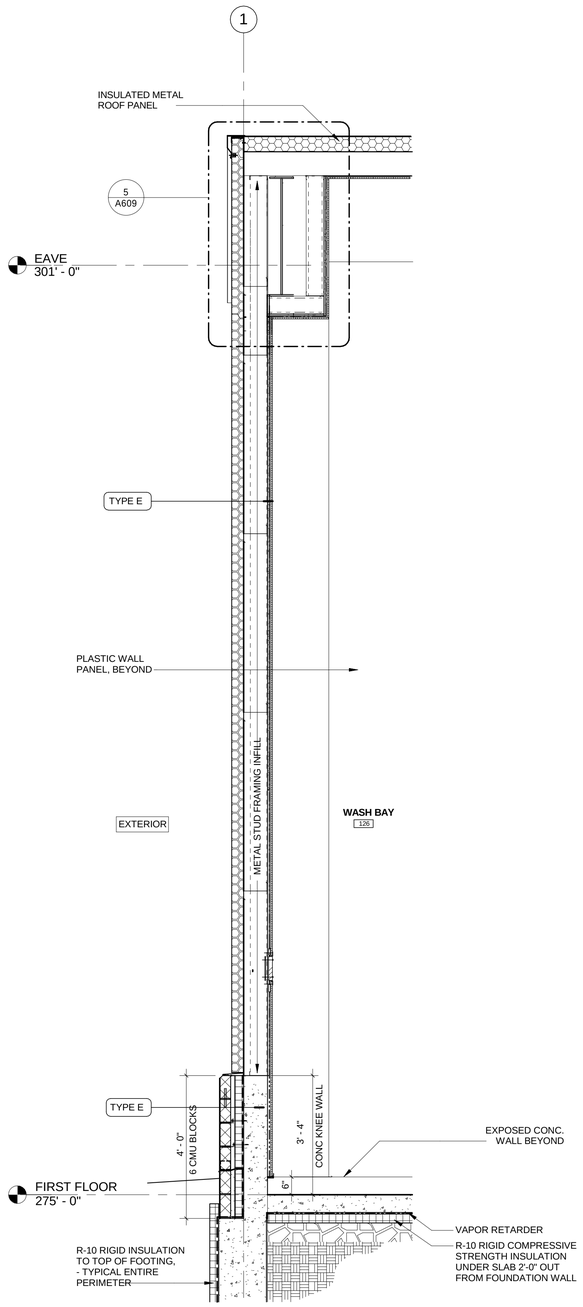
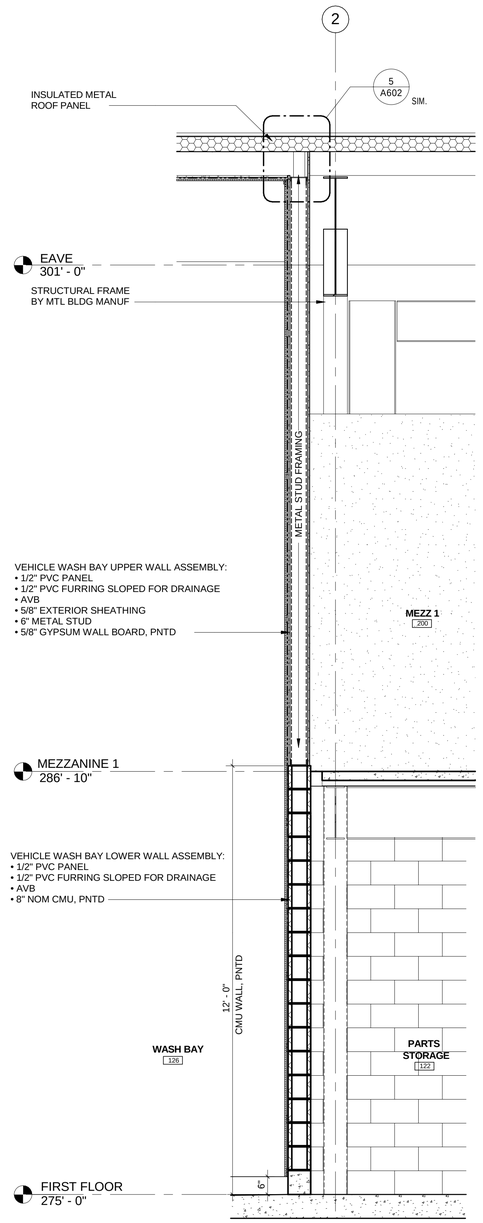
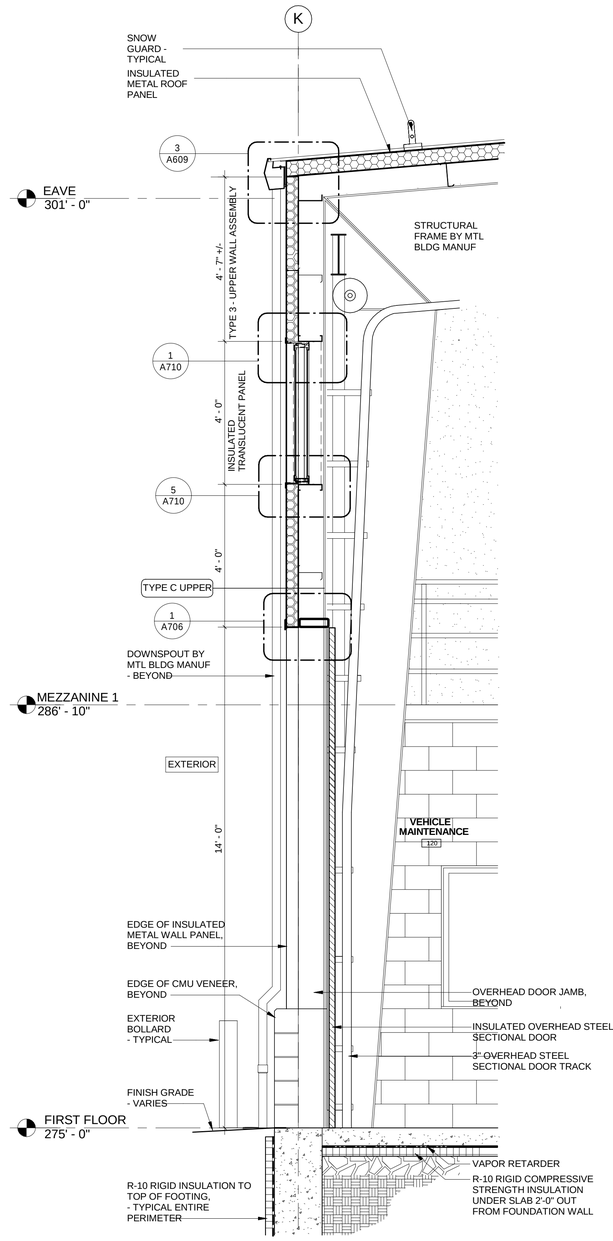
A502



3 WALL SECTION - WASHBAY RAKE
1/2" = 1'-0"



2 WALL SECTION - WASHBAY/VEHICLE MAINTENANCE SEPARATION
1/2" = 1'-0"



1 WALL SECTION - VEHICLE MAINTENANCE
1/2" = 1'-0"

Project:

VILLAGE OF ARDSLEY

NEW PUBLIC WORKS FACILITY

220 HEATHERDELL ROAD,
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RHINEBECK ARCHITECTURE

Seal:

REGISTERED ARCHITECT JOHN JOSEPH SARGENT 022726 STATE OF NEW YORK

Revisions:

Rev	Date	Description

Issued For: BID

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Reviewed By: JS

Approved By: JS/BG

W&S Project No: N2190088

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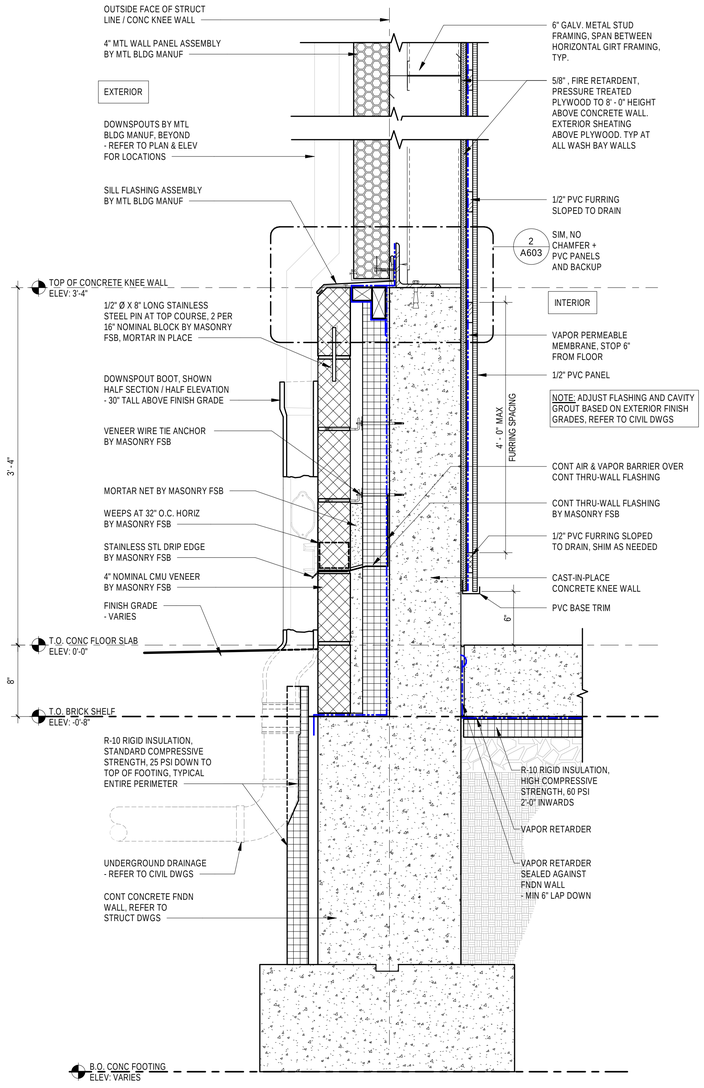
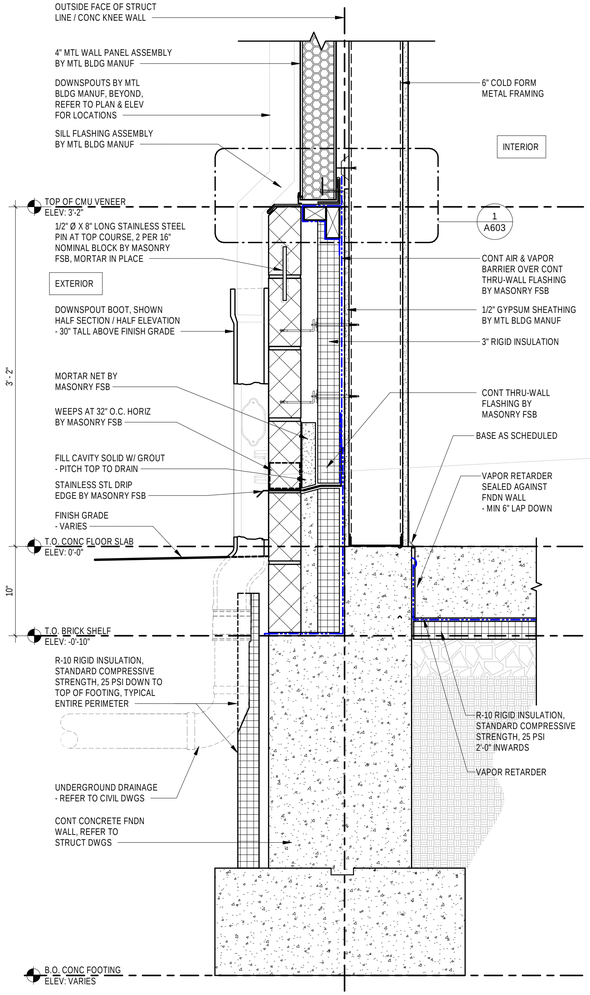
WALL SECTIONS

Sheet Number:

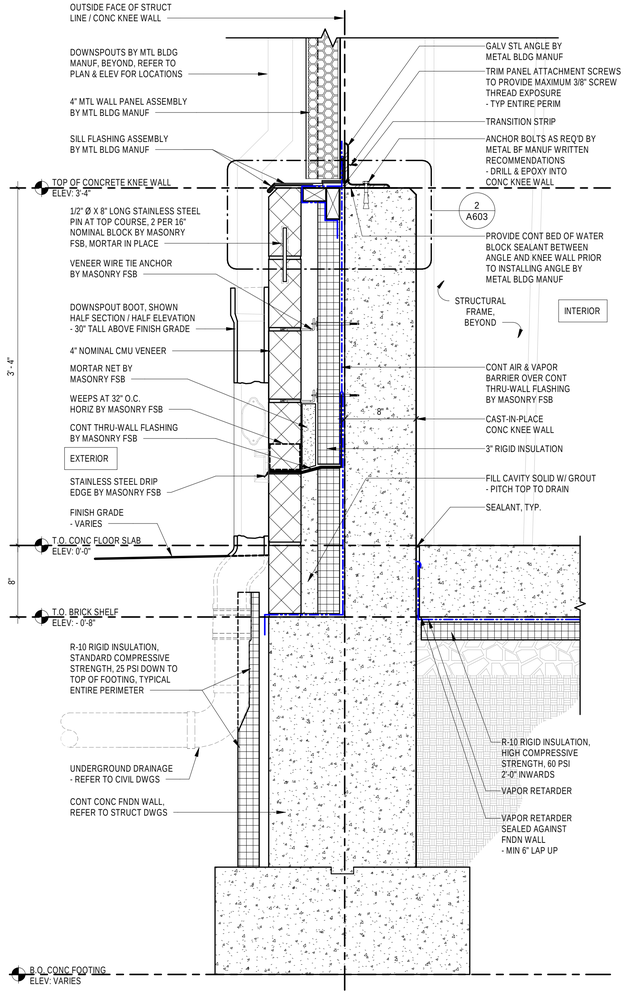
A503



3 METAL PANEL TO CMU WALL TRANSITION - WASH BAY
1 1/2" = 1'-0"



2 MTL PANEL TO CMU WALL TRANSITION
1 1/2" = 1'-0"



1 3'-4" METAL PANEL TO CMU WALL TRANSITION - CONCRETE BACKUP
1 1/2" = 1'-0"

Project:

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RHINEBECK ARCHITECTURE

Seal:

REGISTERED ARCHITECT
JOHN JOSEPH SHEEHY
022726
STATE OF NEW YORK

Revisions:

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Reviewed By:	JS
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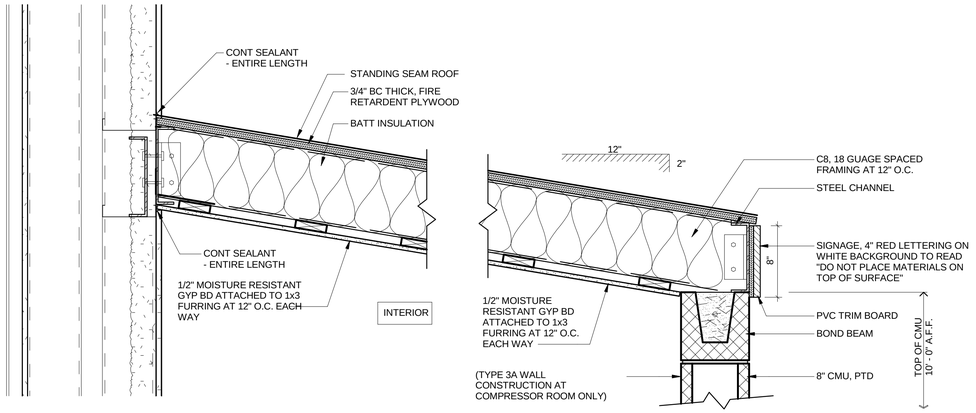
W&S Project No:	N2190088

Drawing Title:

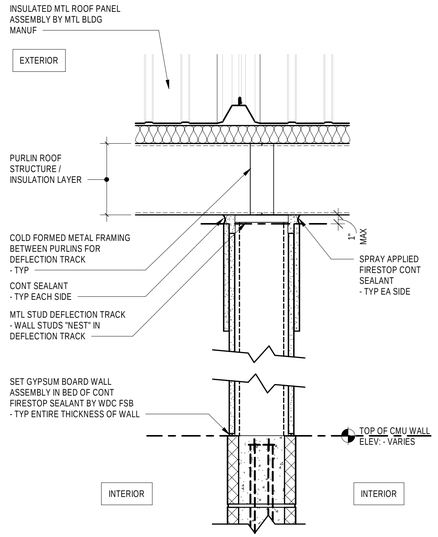
SECTION DETAILS

Sheet Number:

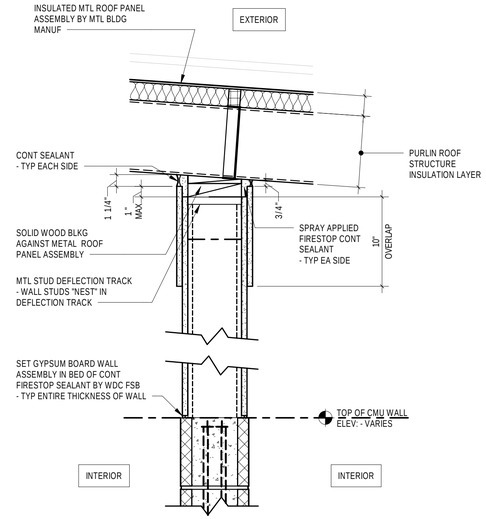
A601



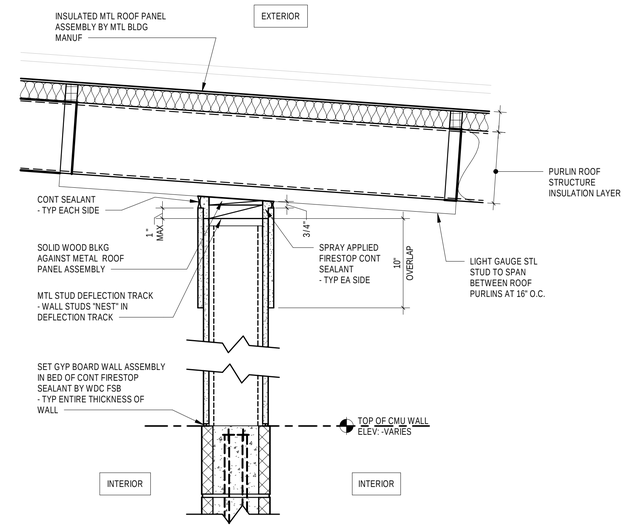
6 WATER ROOM ROOF SECTION
1 1/2" = 1'-0"



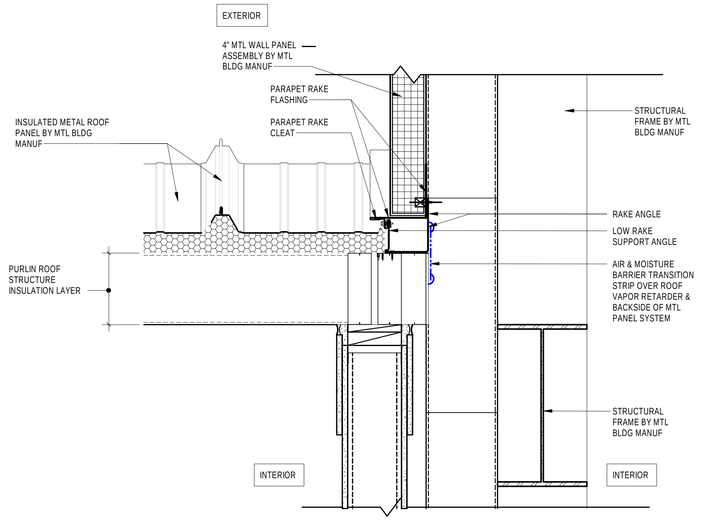
5 GYPSUM BOARD TO ROOF TRANSITION SECTION
1 1/2" = 1'-0"



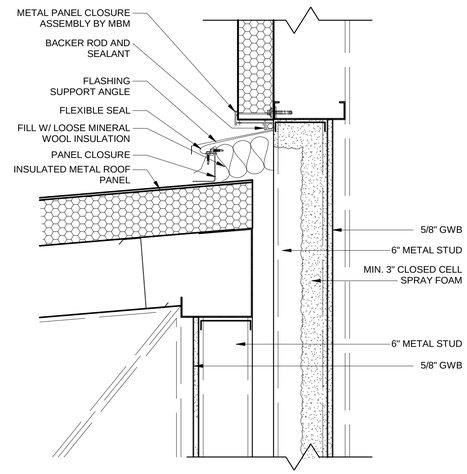
4 GYPSUM BOARD TO ROOF TRANSITION SECTION
1 1/2" = 1'-0"



3 GYPSUM BOARD TO ROOF TRANSITION BETWEEN PURLINS SECTION
1 1/2" = 1'-0"



2 MTL PNL ROOF DETAIL - LOW ROOF TO HIGH ROOF
1 1/2" = 1'-0"



1 METAL WALL PANEL -LOW ROOF DETAIL
1 1/2" = 1'-0"

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RHINEBECK ARCHITECTURE

Seal:

REGISTERED ARCHITECT
JOHN JOSEPH SHEEHY
022726
STATE OF NEW YORK

Revisions:

Rev	Date	Description

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PROJECT TRUE

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Reviewed By:	JS
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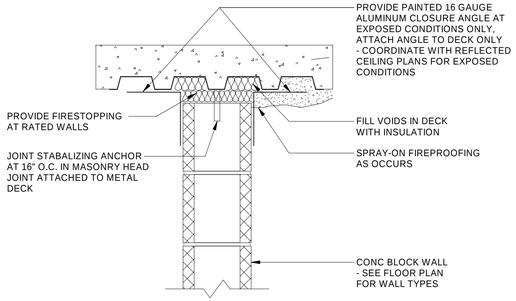
Drawing Title:

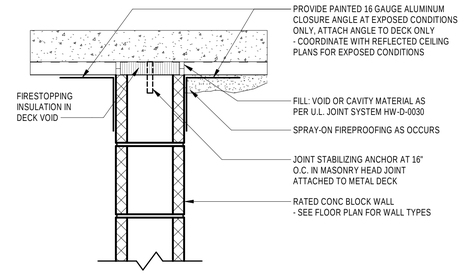
SECTION DETAILS II

Sheet Number:

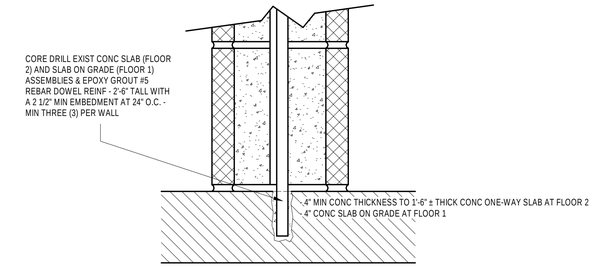
A602



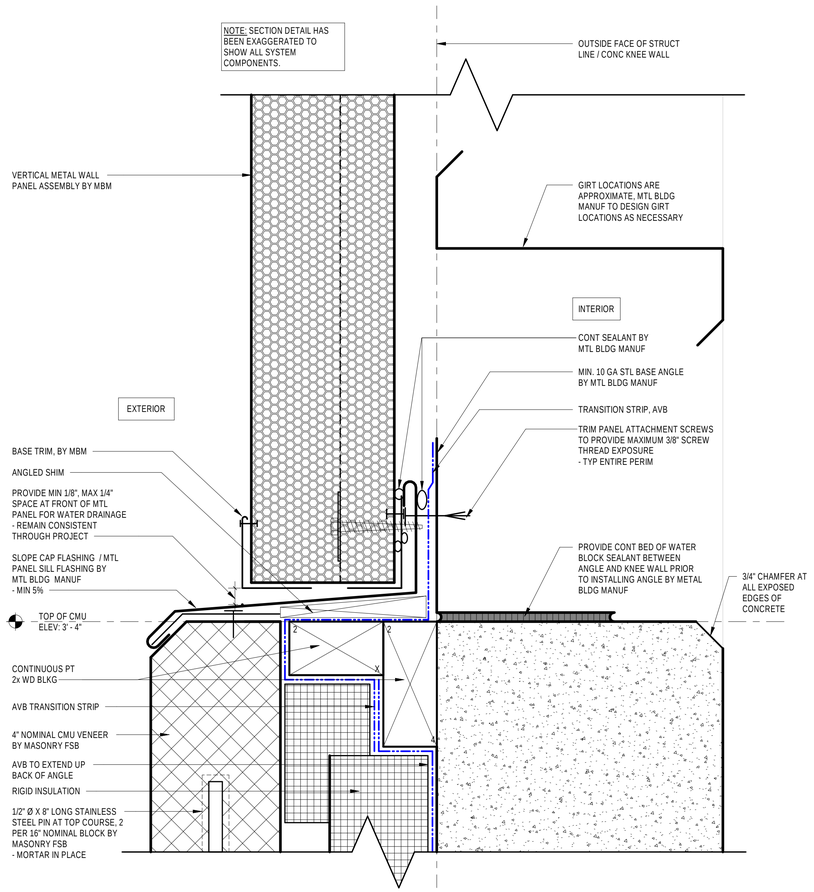
5 CMU WALL/ROOF DECK DEFLECTION
1 1/2" = 1'-0"



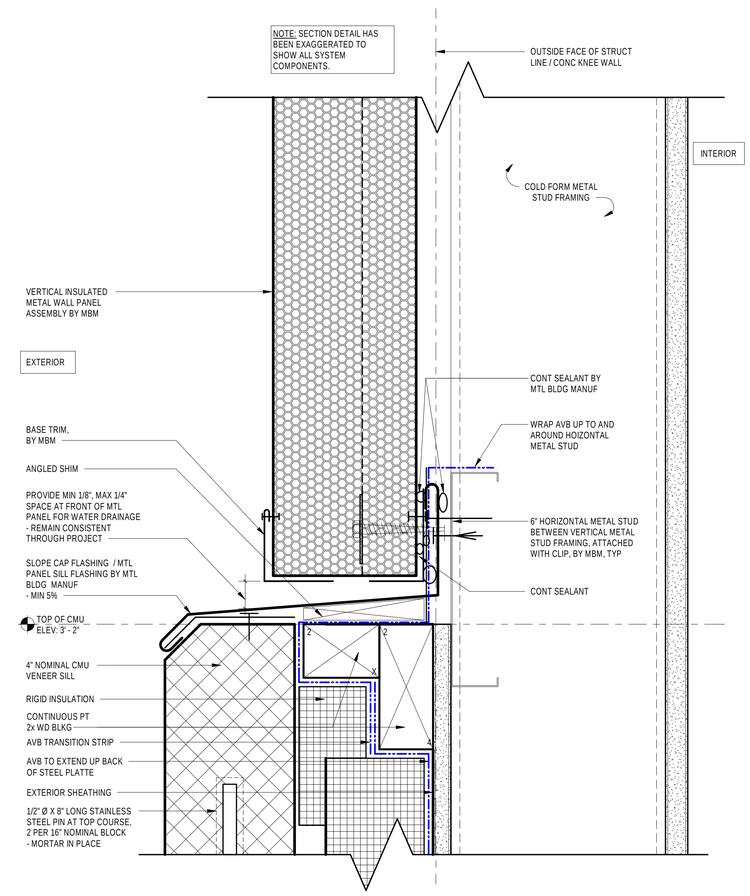
4 TYP. RATED T.O. WALL (MASONRY)
1 1/2" = 1'-0"



3 TYPICAL BOTTOM OF WALL DETAIL (SECTION DETAIL)
3" = 1'-0"



2 CAP FLASHING AT CMU VENEER TO METAL PANEL TRANSITION - CONC BACK UP WALL
6" = 1'-0"



1 CAP FLASHING AT CMU VENEER TO METAL PANEL TRANSITION - MTL STUD BACK UP WALL
6" = 1'-0"

Project:

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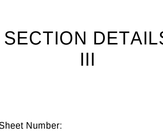

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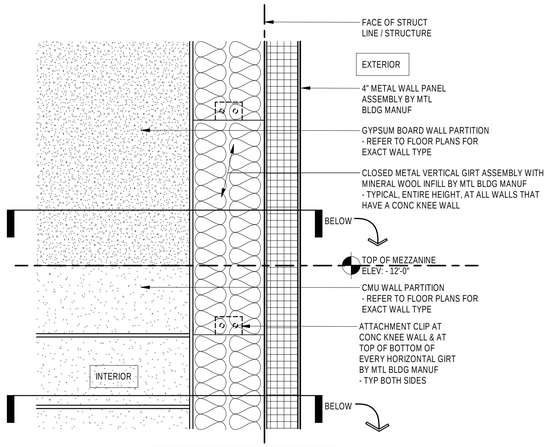
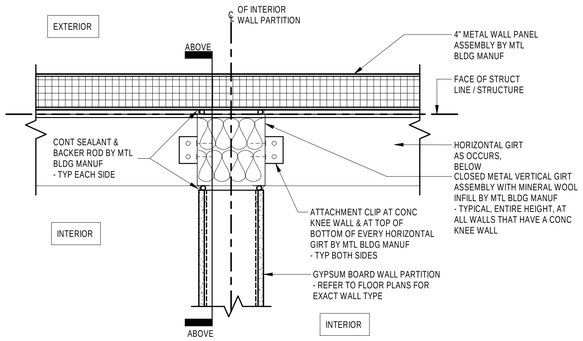
SECTION DETAILS III

Sheet Number:

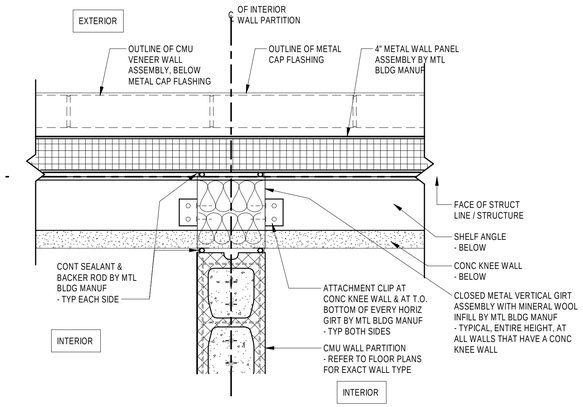
A603



SECTION VIEW

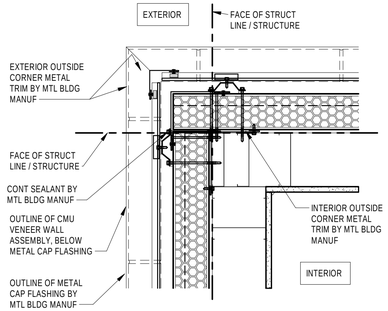


PLAN VIEW
- ABOVE MEZZANINE

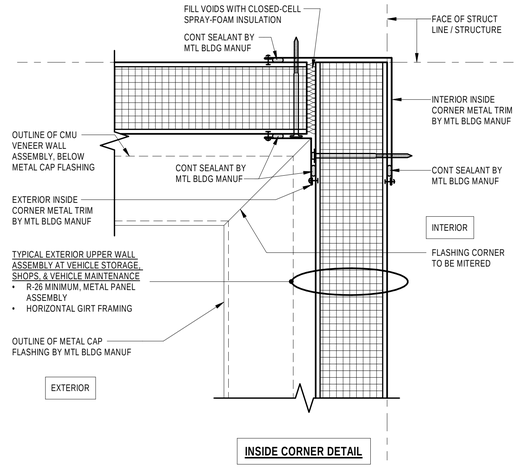


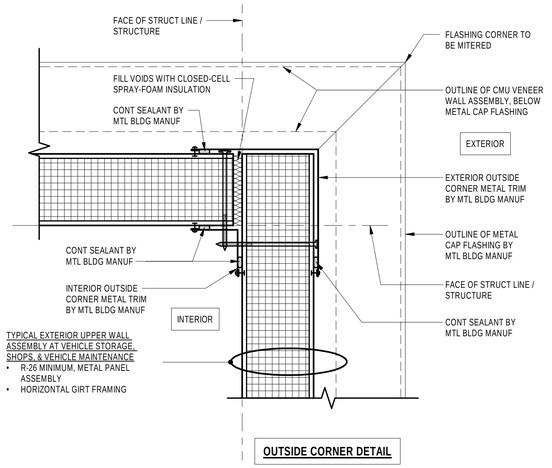
PLAN VIEW
- BELOW MEZZANINE

3 EXTERIOR WALL DETAIL
1 1/2" = 1'-0"

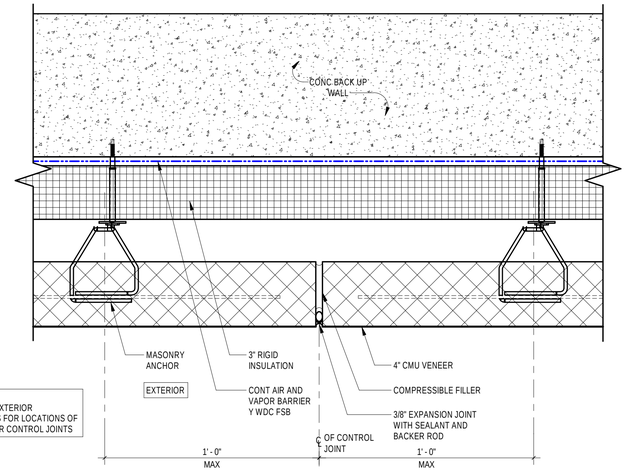


6 CORNER DETAIL
1 1/2" = 1'-0"

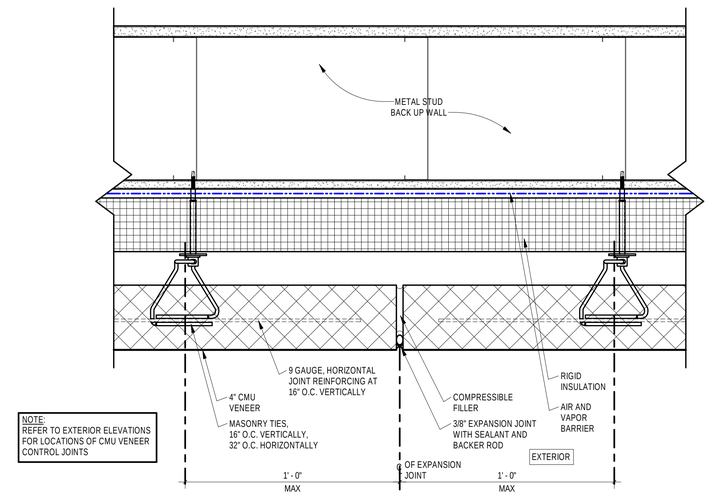




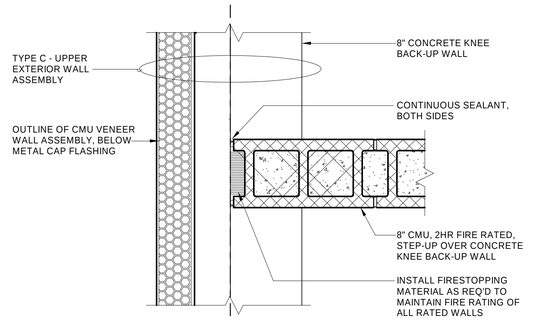
5 PLAN DETAIL - METAL PANEL CORNERS - TYP.
3" = 1'-0"



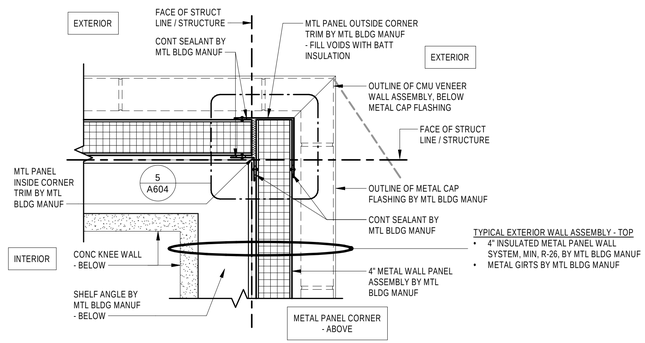
4 CONTROL JOINT DETAIL - CMU VENEER W/ CONC KNEE WALL
3" = 1'-0"

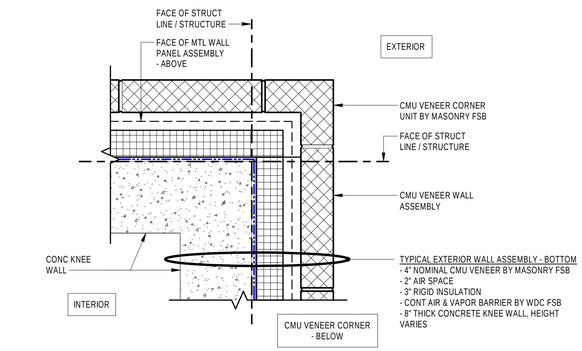


2 CONTROL JOINT DETAIL - CMU VENEER WITH MTL STUDS
3" = 1'-0"



7 PLAN DETAIL - CMU 2 HR/METAL PANEL INTERSECTION
1 1/2" = 1'-0"





1 CORNER DETAIL
1 1/2" = 1'-0"

Project:

VILLAGE OF ARDSLEY

NEW PUBLIC WORKS FACILITY

220 HEATHERDELL ROAD,
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RHINEBECK ARCHITECTURE

Seal:

REGISTERED ARCHITECT JOHN JOSEPH SHEEHY STATE OF NEW YORK 022726

Revisions:

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PLAN DETAILS

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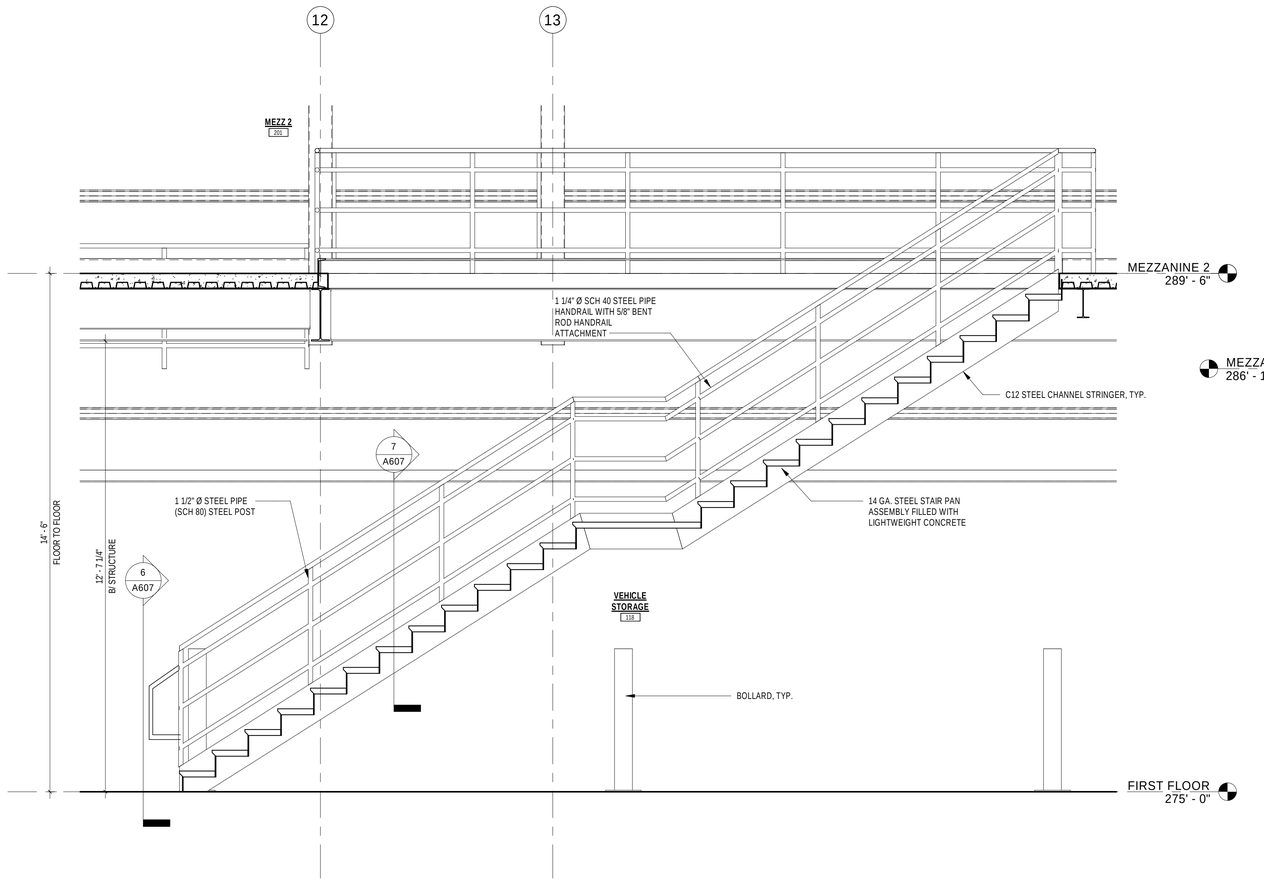
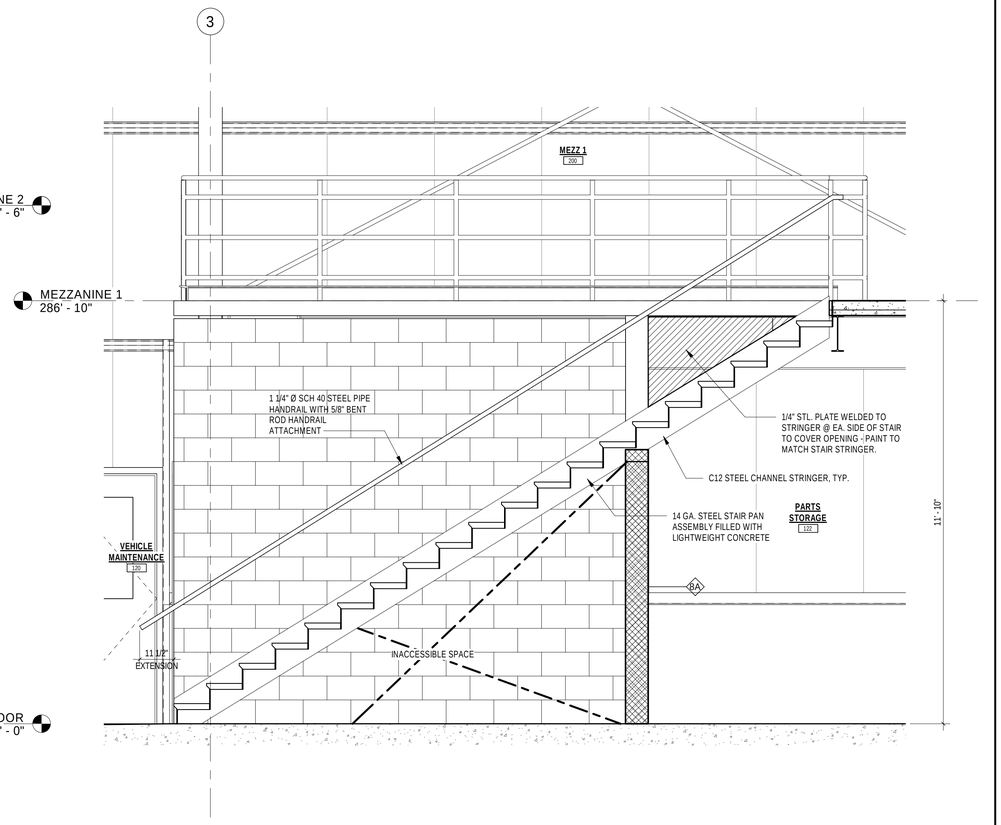
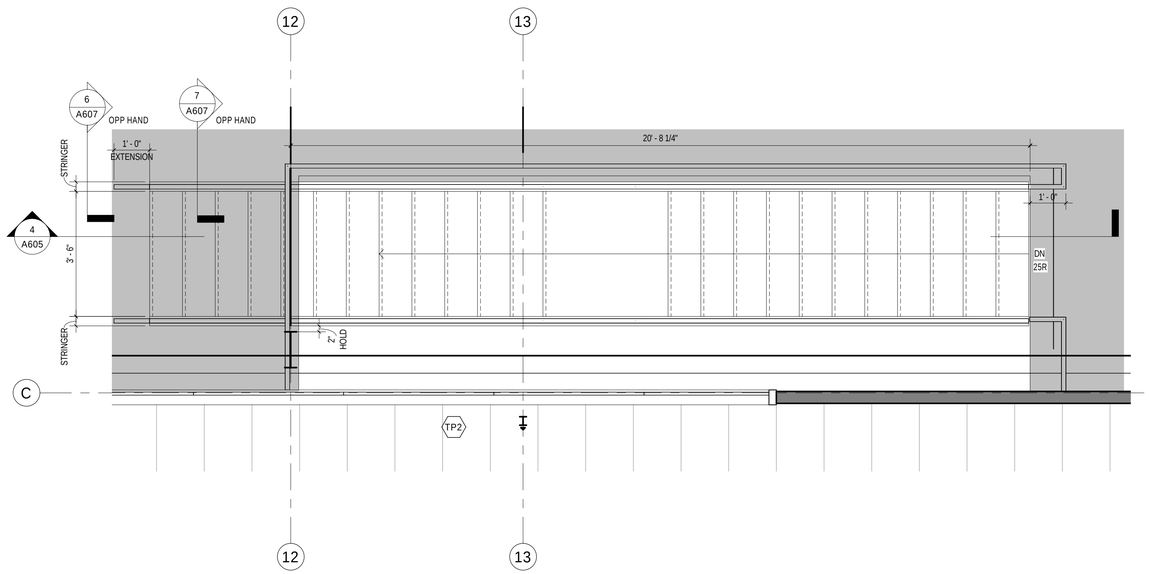
A604



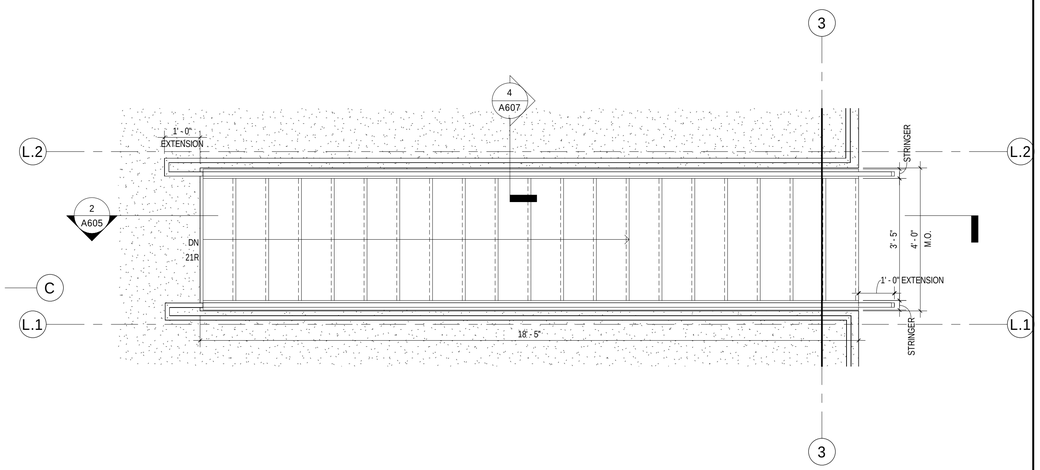
4 STAIR SECTION - MEZZANINE 2
1/2" = 1'-0"



2 STAIR SECTION - MEZZANINE 1
1/2" = 1'-0"



3 MEZZANINE 2 - STAIR PLAN
1/2" = 1'-0"



1 MEZZANINE 1 - STAIR PLAN
1/2" = 1'-0"

Project:

VILLAGE OF ARDSLEY

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RHINEBECK ARCHITECTURE

Seal:

REGISTERED ARCHITECT JOHN JOSEPH SARGENT 022726 STATE OF NEW YORK

Revisions:

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Reviewed By:	JS
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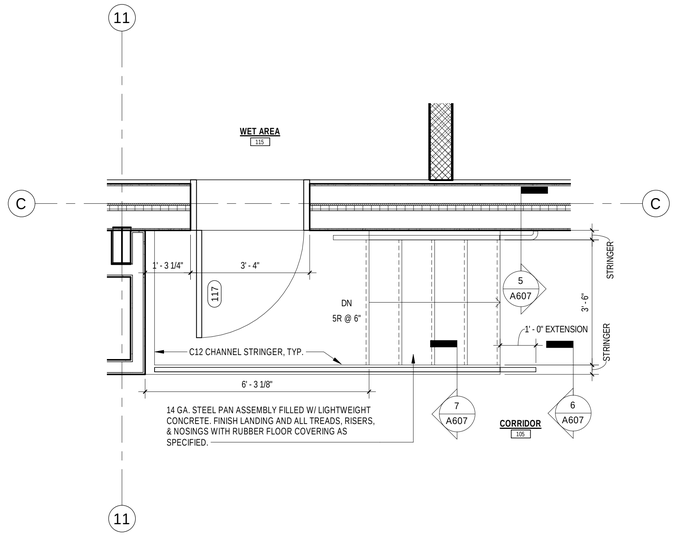
Drawing Title:

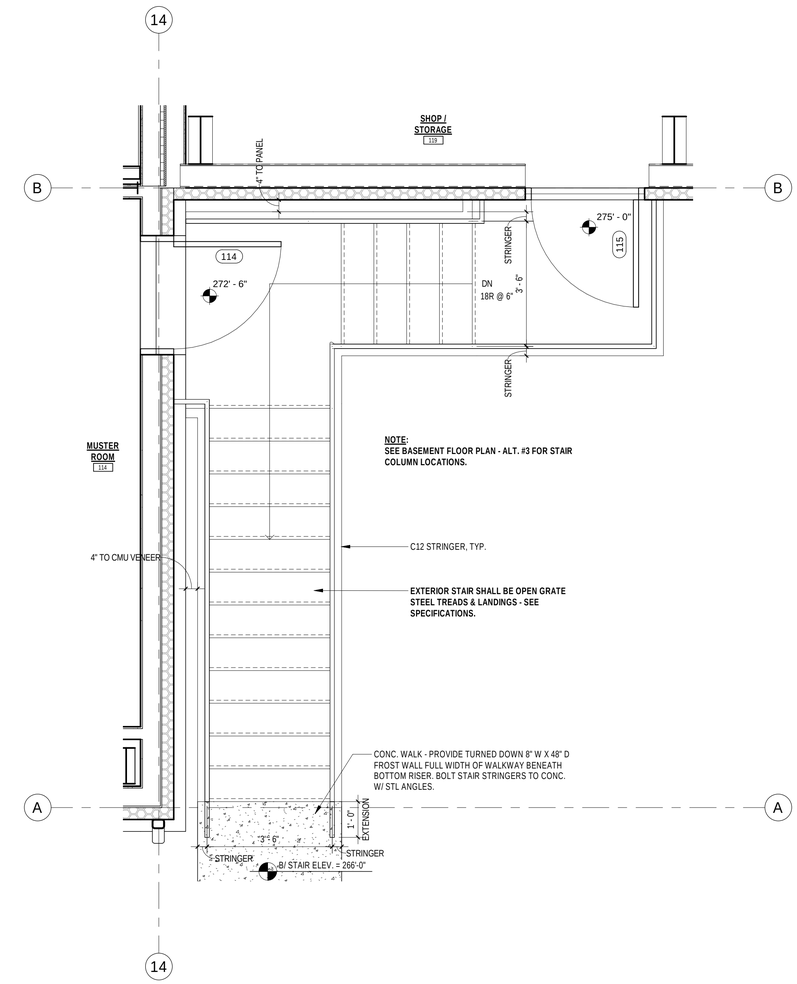
STAIR PLANS & SECTIONS

Sheet Number:

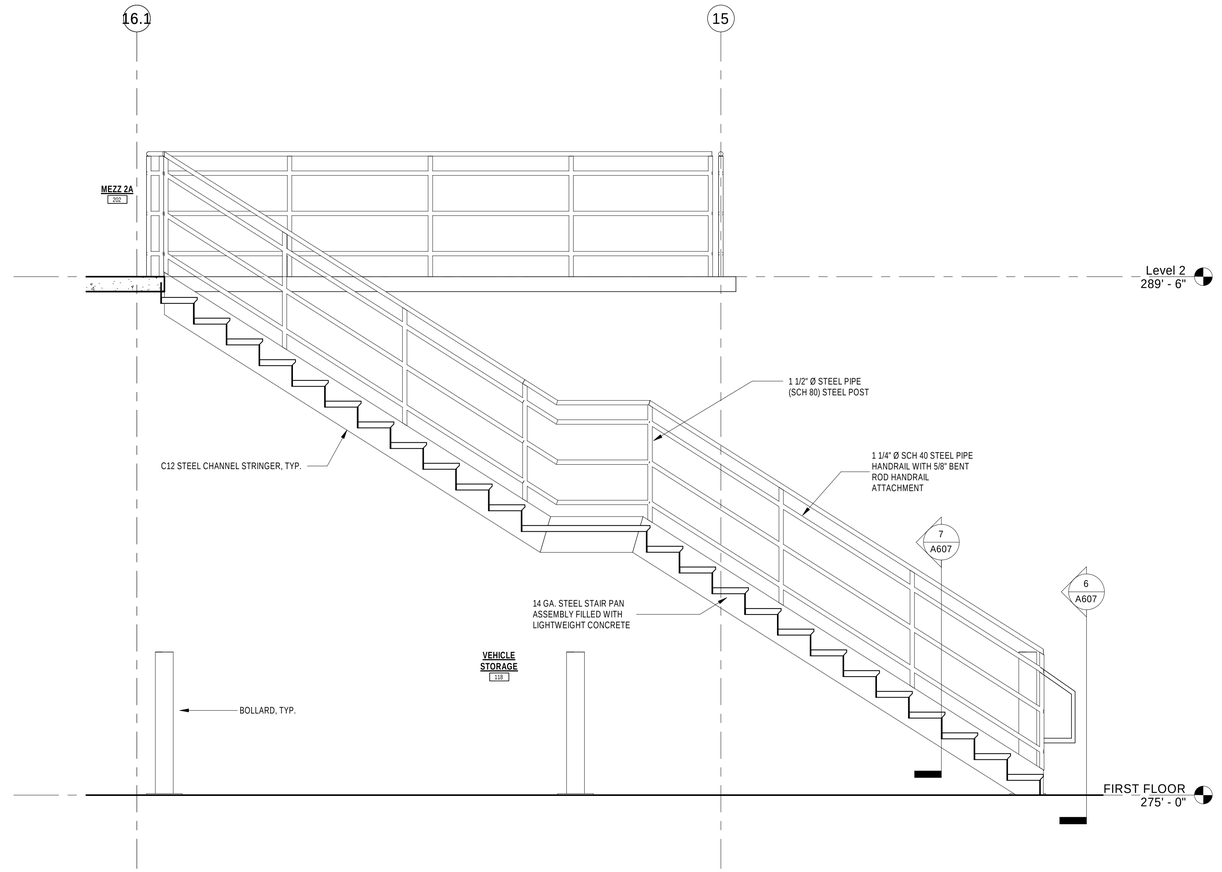
A605



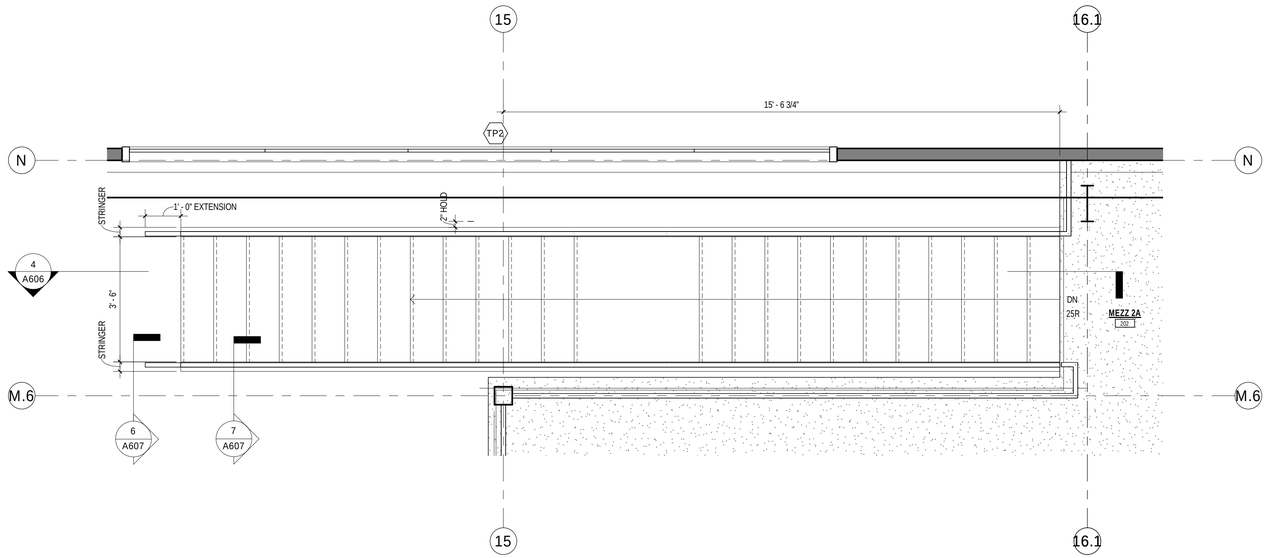
3 ADMIN/VEH. STORAGE STAIR
1/2" = 1'-0"



2 ADMIN/SHOP STAIR - ALT. #3
1/2" = 1'-0"



4 STAIR SECTION - MEZZANINE 2A
1/2" = 1'-0"



1 MEZZANINE 2A - STAIR PLAN
1/2" = 1'-0"

Project:

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NEW PUBLIC WORKS FACILITY

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RHINEBECK ARCHITECTURE

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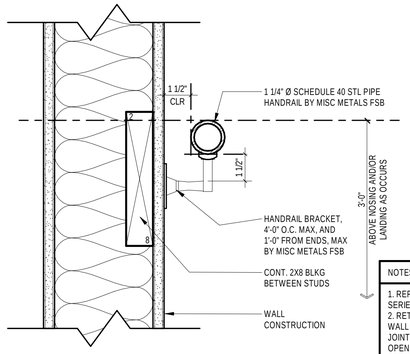
Drawn By:	BG
Reviewed By:	JS
Approved By:	JS/BG
W&S Project No:	N2190088

Drawing Title:

STAIR PLANS & SECTIONS

Sheet Number:

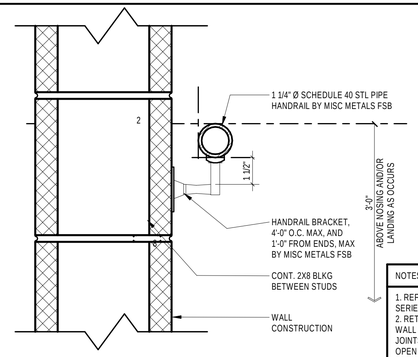
A606



NOTES:

1. REFER TO ENLARGED STAIR PLANS SERIES FOR HANDRAIL LOCATIONS (TYP.)
2. RETURN ALL MTD HANDRAILS BACK TO WALL W/ RADIUS TRANSITIONS. ALL JOINTS MUST BE SMOOTH. (CAP ALL OPEN PIPE ENDS & LEAVE 1/8" CLEAR BETWEEN FINISH WALL AND HANDRAIL RETURN ENDS)

5 HANDRAIL DETAIL
3" = 1'-0"



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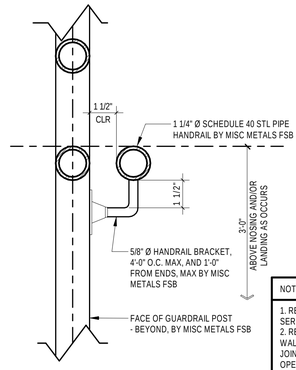

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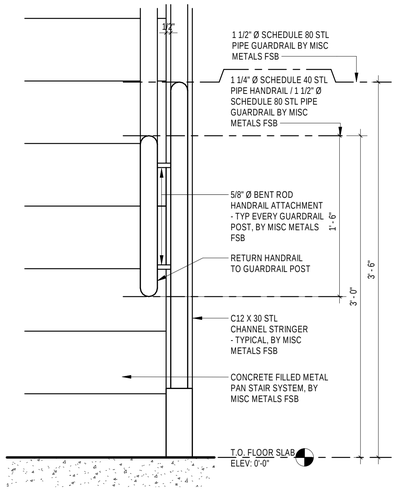
2. RETURN ALL MTD HANDRAILS BACK TO WALL W/ RADIUS TRANSITIONS. ALL JOINTS MUST BE SMOOTH. (CAP ALL OPEN PIPE ENDS & LEAVE 1/8" CLEAR BETWEEN FINISH WALL AND HANDRAIL RETURN ENDS)

3 HANDRAIL DETAIL
3" = 1'-0"



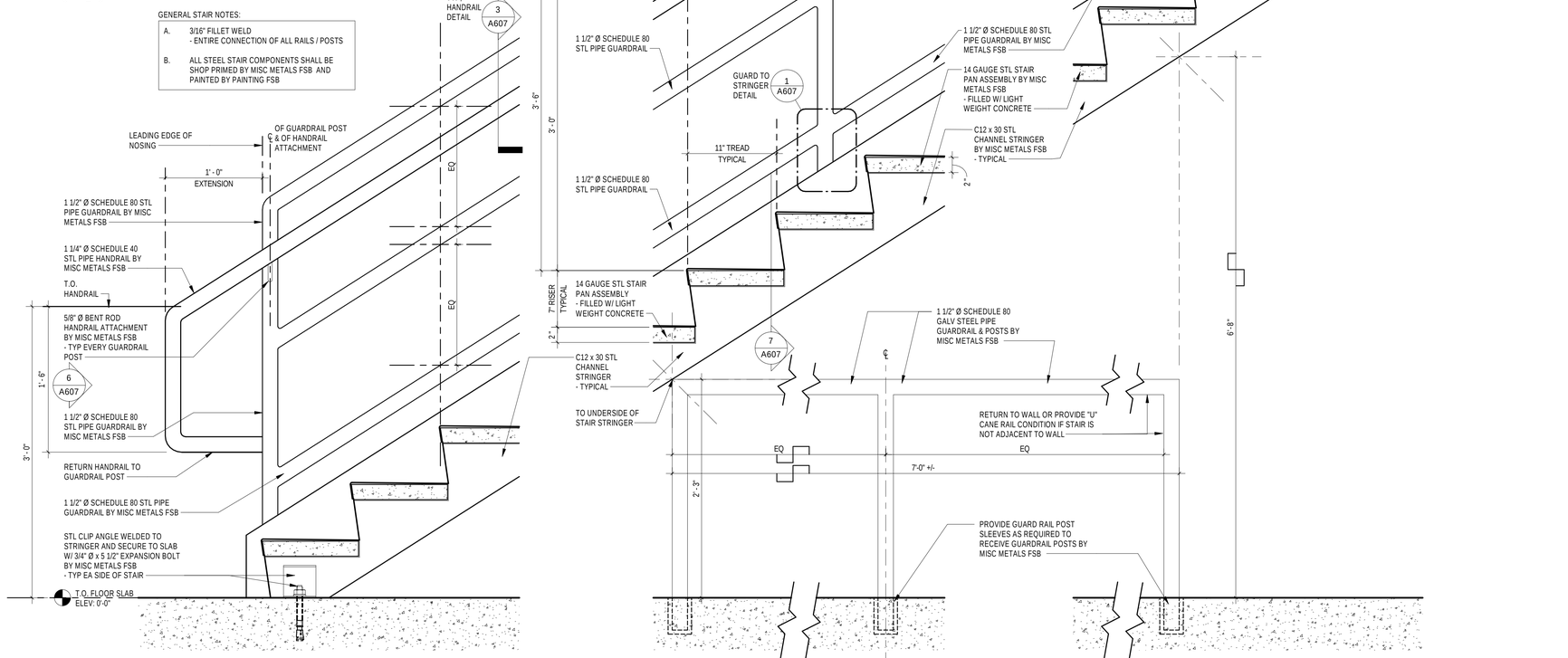
6 STAIR HANDRAIL / GUARDRAIL ELEVATION - END CONDITION
1 1/2" = 1'-0"

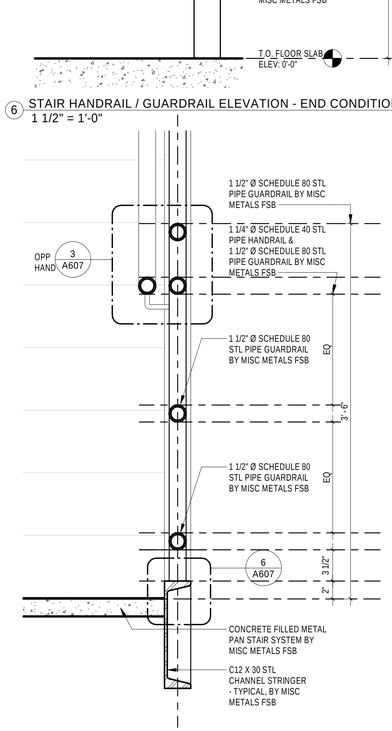
1 STAIR RAIL SECTION DETAIL
6" = 1'-0"

GENERAL STAIR NOTES:

A. 3/16" FILLET WELD
- ENTIRE CONNECTION OF ALL RAILS / POSTS

B. ALL STEEL STAIR COMPONENTS SHALL BE SHOP PRIMED BY MISC METALS FSB AND PAINTED BY PAINTING FSB





7 STAIR HANDRAIL / GUARDRAIL SECTION - 4 RAIL
1 1/2" = 1'-0"

2 MEZZANINE STAIR CONSTRUCTION - 4 RAIL
1 1/2" = 1'-0"

Project:

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RHINEBECK ARCHITECTURE

Seal:

Revisions:

Rev	Date	Description

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Date:	4/7/22
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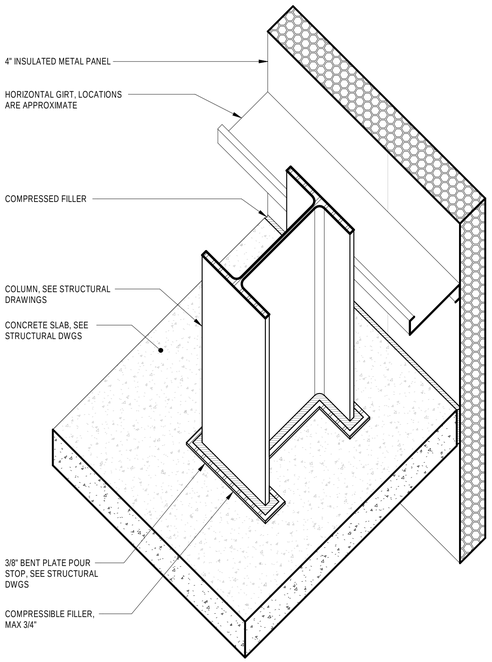
Reviewed By:	JS
Approved By:	JS/BG
W&S Project No:	N2190088

Drawing Title:

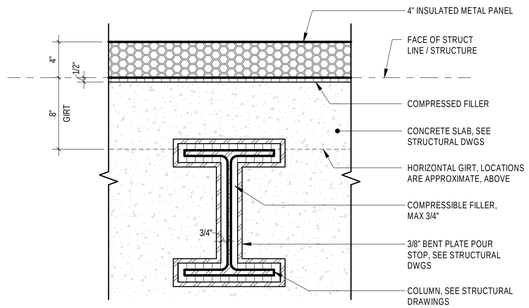
STAIR SECTION & DETAILS

Sheet Number:

A607

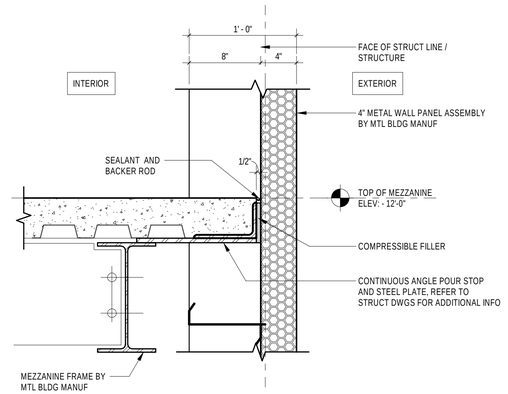


AXON VIEW



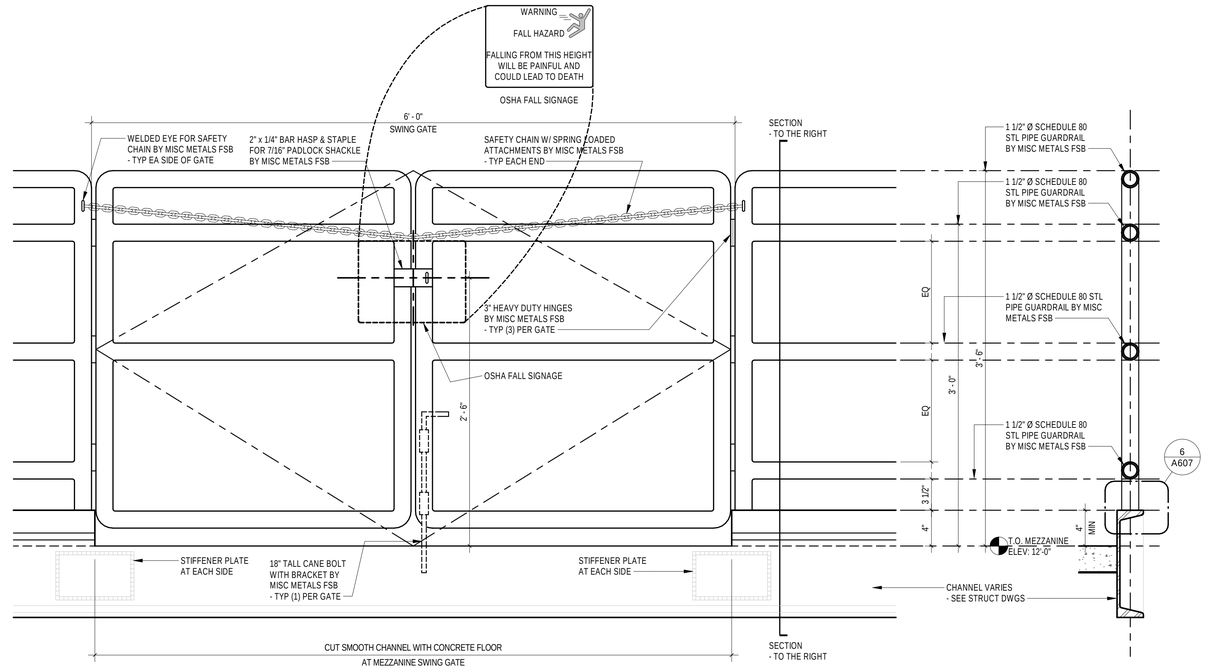
PLAN VIEW

2 TYPICAL MEZZANINE LEVEL COLUMN CLOSURE DETAIL
1 1/2" = 1'-0"



DETAIL OCCURS AT ALL MEZZANINE TO EXTERIOR WALL LOCATIONS

3 MEZZANINE EDGE DETAIL - VERTCAL METAL PANEL
1 1/2" = 1'-0"



1 MEZZANINE SWING GATE ELEVATION - 4 RAIL
1 1/2" = 1'-0"

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MEZZANINE DETAILS

Sheet Number:

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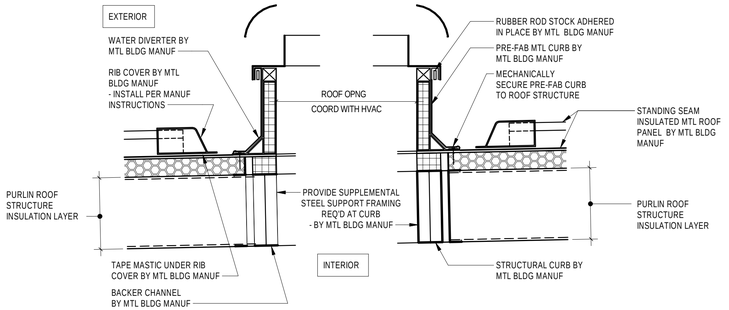
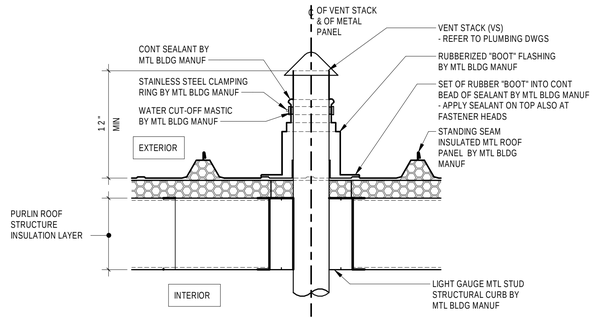
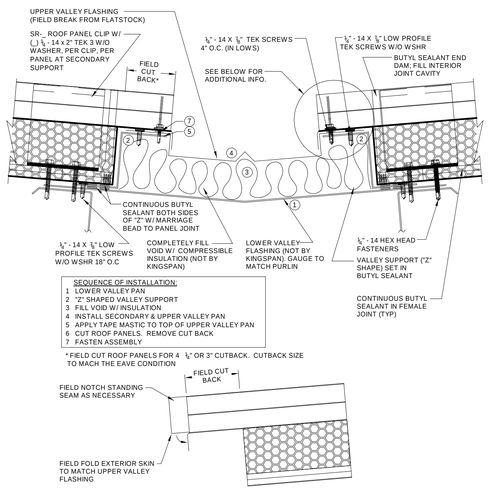


7 EXHAUST FAN CURB DETAIL
1 1/2" = 1'-0"

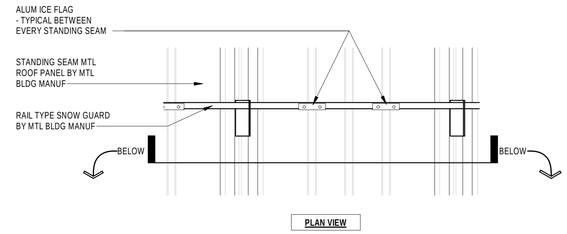


(CONDUIT / ELECTRICAL SLEEVES, SIMILAR DETAIL)

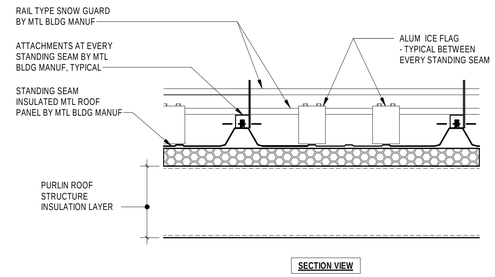
8 VENT STACK DETAIL
1 1/2" = 1'-0"



9 VALLEY DETAIL
NTS

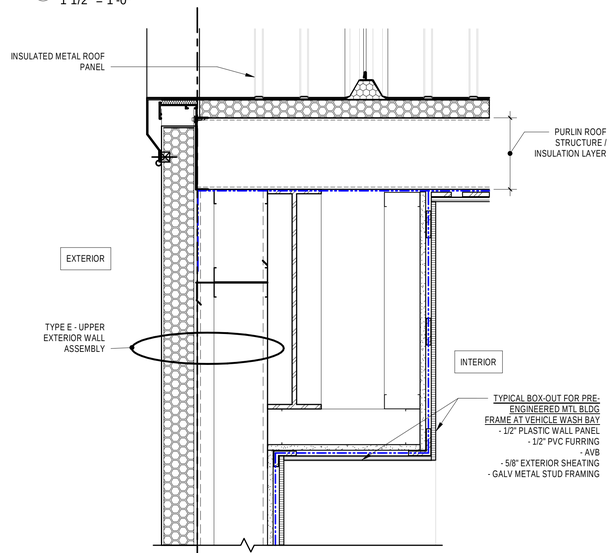


PLAN VIEW

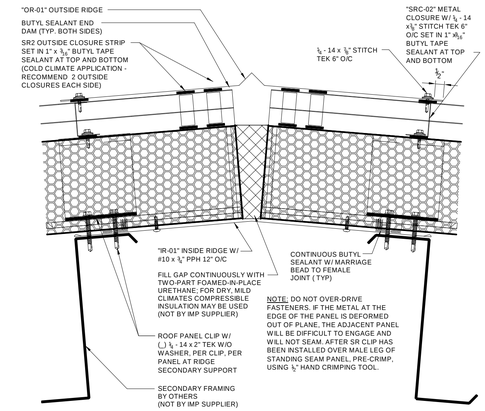


SECTION VIEW

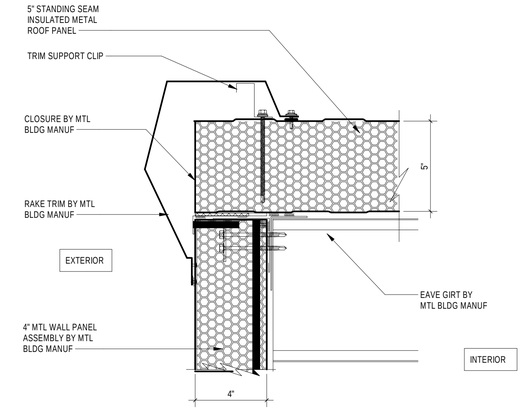
4 SNOW GUARD DETAIL
1 1/2" = 1'-0"



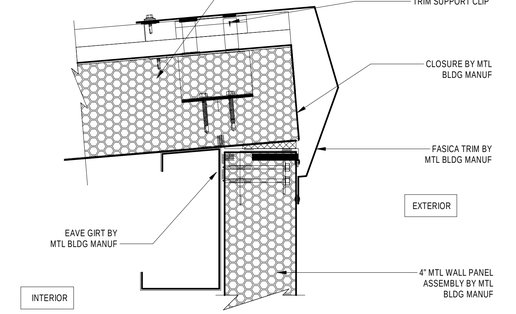
5 RAKE DETAIL AT MTL PANEL - VEHICLE WASH BAY
1 1/2" = 1'-0"



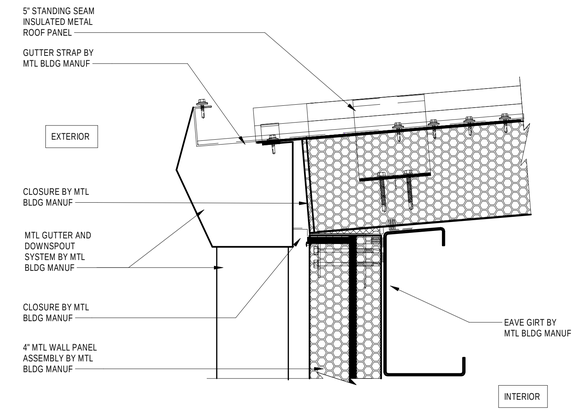
6 RIDGE DETAIL
3" = 1'-0"



1 ROOF EDGE 1
3" = 1'-0"



2 ROOF EDGE 2
3" = 1'-0"



3 ROOF EDGE - GUTTER
3" = 1'-0"

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RHINEBECK ARCHITECTURE

Seal:

REGISTERED ARCHITECT JOHN JOSEPH SHEEHY 022726 STATE OF NEW YORK

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Approved By: JS/BG

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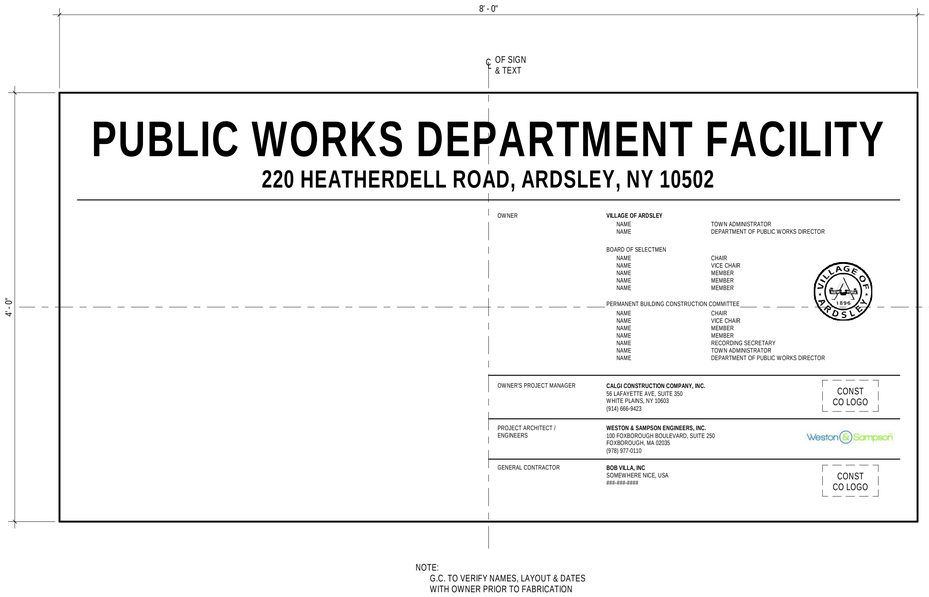
ROOF DETAILS I

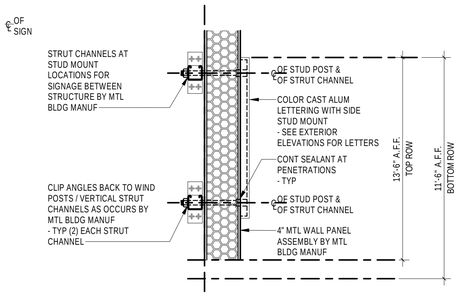
Sheet Number:

A609

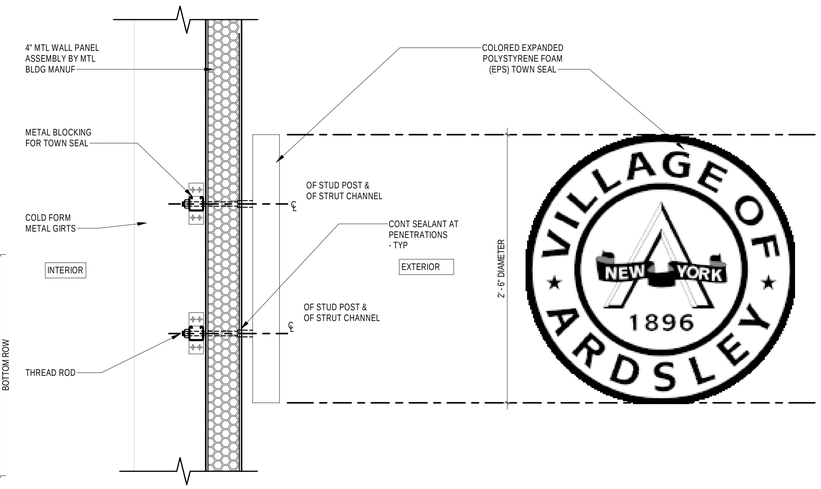


NOTE:
G.C. TO VERIFY NAMES, LAYOUT & DATES WITH OWNER PRIOR TO FABRICATION

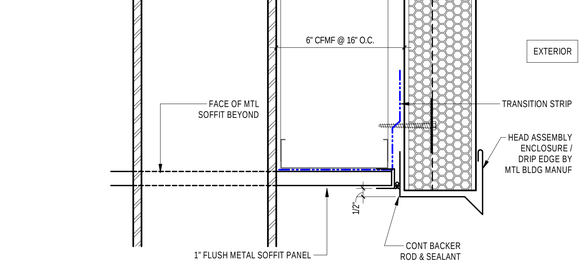
5 CONSTRUCTION SIGN
1 1/2" = 1'-0"



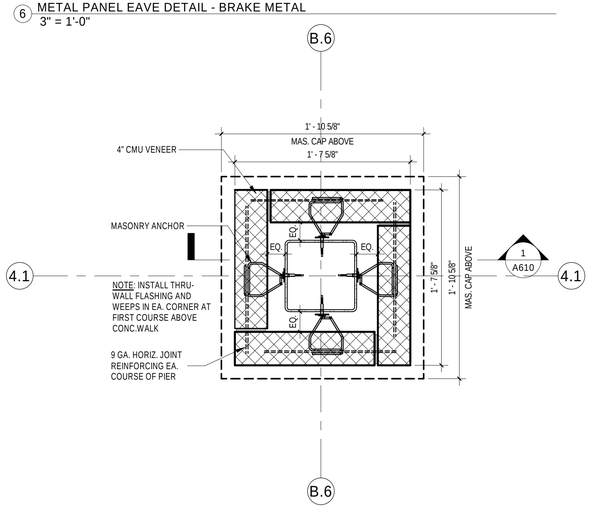
4 EXTERIOR SIGNAGE DETAIL AT METAL LETTERING
1 1/2" = 1'-0"



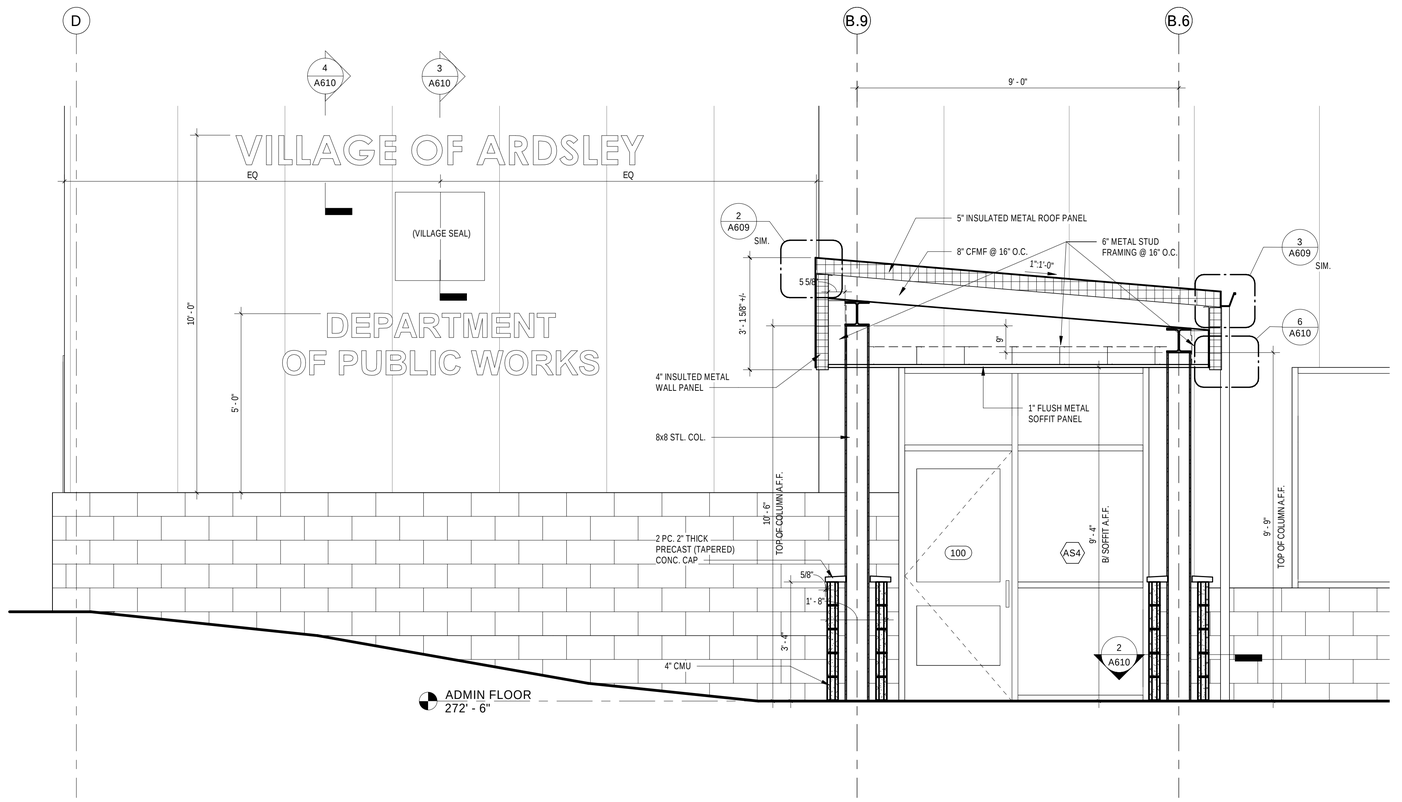
3 EXTERIOR SIGNAGE - ELEVATION & SECTION DETAIL
1 1/2" = 1'-0"



6 METAL PANEL EAVE DETAIL - BRAKE METAL
3" = 1'-0"



2 PLAN DETAIL - MASONRY PIER
1 1/2" = 1'-0"



1 CANOPY SECTION / ELEVATION
1/2" = 1'-0"

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RHINEBECK ARCHITECTURE

Seal:

REGISTERED ARCHITECT JOHN JOSEPH SHEEHY STATE OF NEW YORK 022726

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Date:	4/7/22
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Reviewed By:	JS
Approved By:	JS/BG
W&S Project No:	N2190088

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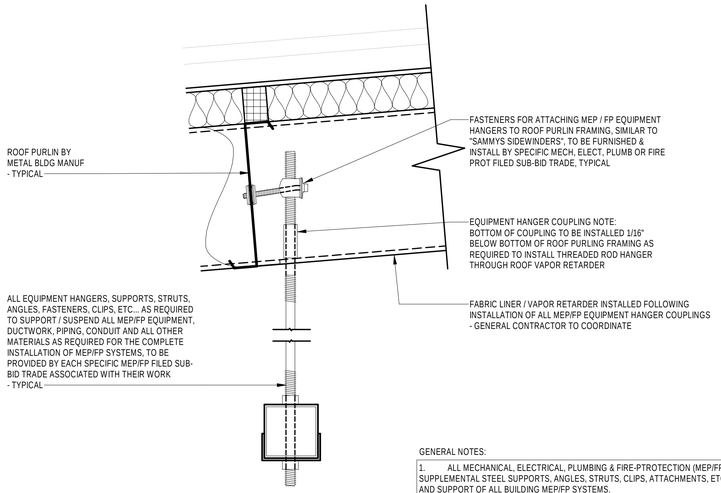
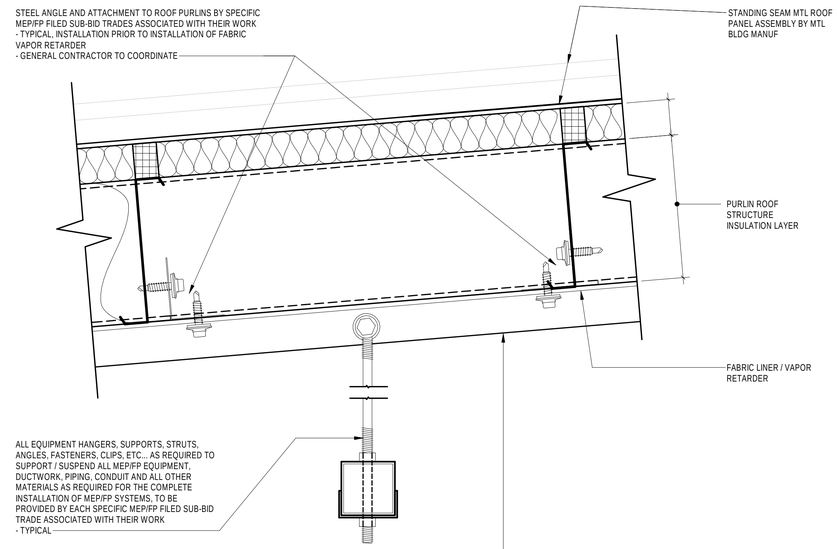
ENTRY CANOPY SECTION & DETAILS

Sheet Number:

A610





GENERAL NOTES:

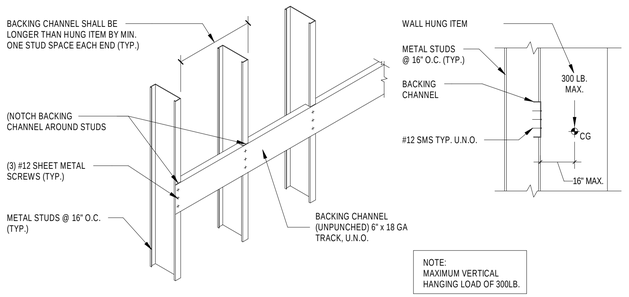
1. ALL MECHANICAL, ELECTRICAL, PLUMBING & FIRE-PTROTECTION (MEP/FP), ETC. SUB-TRADES SHALL PROVIDE AND INSTALL ALL SUPPLEMENTAL STEEL SUPPORTS, ANGLES, STRUTS, CLIPS, ATTACHMENTS, ETC. AS NECESSARY FOR THE COMPLETE INSTALLATION AND SUPPORT OF ALL BUILDING MEP/FP SYSTEMS.

2. ALL MEP/FP SUB-TRADES SHALL SIZE ALL SUPPORTS, ANGLES, CONNECTORS, ETC, AS REQUIRED TO SUPPORT THE LOADS OF THE SUSPENDED SYSTEMS AND SHALL COORDINATE SIZES AND LOCATIONS, AND SHALL OBTAIN APPROVAL FROM THE METAL BUILDING MANUFACTURER.

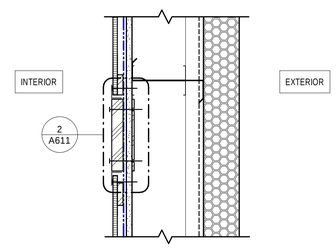
3. ALL FASTENERS, COUPLINGS, ANGLES, ETC. ATTACHED TO THE BUILDING ROOF PURLIN FRAMING ABOVE THE BOTTOM OF THE PURLIN, TO BE INSTALLED PRIOR TO INSTALLATION OF THE CEILING FABRIC LINER. SUSPENDED SUPPORTS INSTALLED BELOW THE BOTTOM OF THE PURLIN FRAMING TO BE INSTALLED FOLLOWING INSTALLATION OF THE CEILING LINER. GENERAL CONTRACTOR SHALL COORDINATE THE SEQUENCE AND INSTALLATION OF THE WORK.

4. ALL EQUIPMENT LOADS/ REACTIONS IMPOSED ON THE METAL BUILDING FRAMING TO BE REVIEWED AND APPROVED BY THE METAL BUILDING MANUFACTURER. ALL SUPPLEMENTAL BUILDING FRAMING MEMBERS, AS REQUIRED TO SUPPORT MECHANICAL/ ELECTRICAL/ FIRE PROTECTION EQUIPMENT, AS DETERMINED BY THE PREFABRICATED METAL BUILDING DESIGN, IN CONSIDERATION OF ALL EQUIPOMENT-IMPOSED LOADS TO THE BUILDING, TO BE PROVIDED BY METAL BUILDING MANUFACTURER.

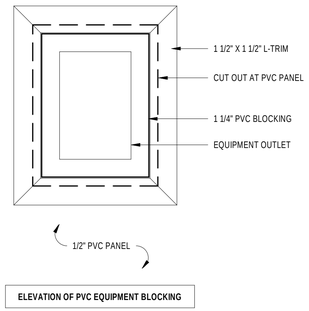
5 PURLIN ATTACHMENT DETAILS
3" = 1'-0"



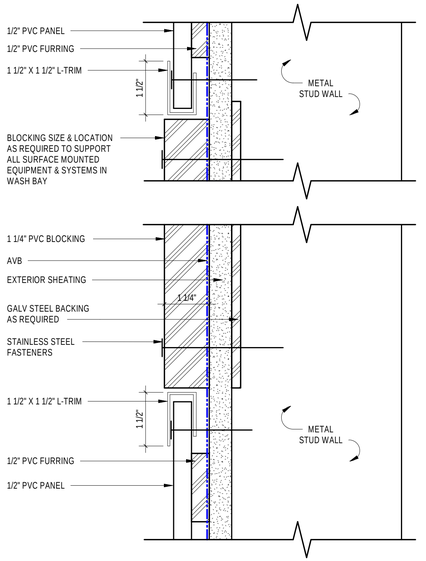
4 TYP. BACKING SUPPORT DETAIL
1" = 1'-0"

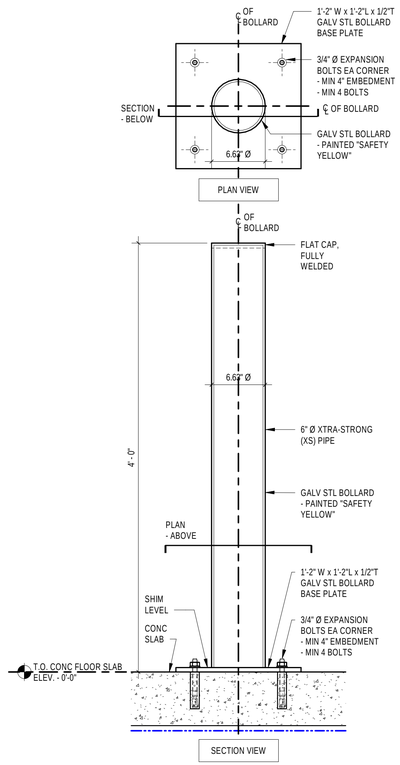


3 VEHICLE WASH BAY EUIPMENT BLOCKING SECTION DETAIL
1 1/2" = 1'-0"



2 VEHICLE WASH BAY EQUIPMENT BLOCKING SECTION ENLARGED DETAIL
6" = 1'-0"





1 INTERIOR BOLLARD
1 1/2" = 1'-0"

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Reviewed By: JS

Approved By: JS/BG

W&S Project No: N2190088

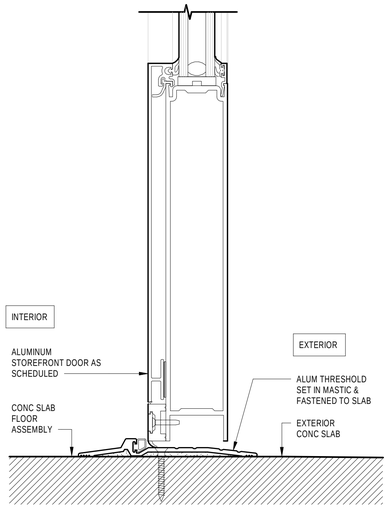
Drawing Title:

MISC DETAILS

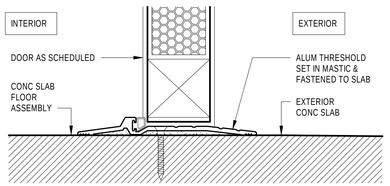
Sheet Number:

A611

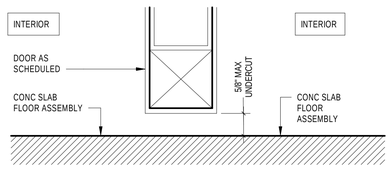
#	GLAZING SCHEDULE	
TYPE	DESCRIPTION	USE IN THESE LOCATIONS
1	1" CLEAR INSULATING TEMPERED GLASS	ALL EXTERIOR DOORS, CURTAIN WALL, STOREFRONT, & WINDOWS
2	1/4" CLEAR TEMPERED	ALL INTERIOR NON-FIRE RATED DOORS, INTERIOR WINDOWS/STOREFRONTS



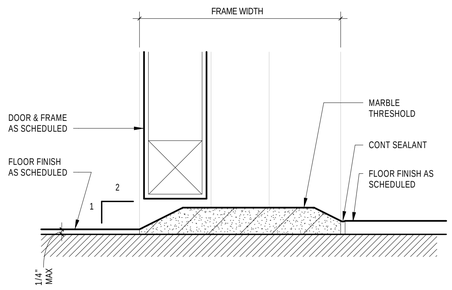
6 ALUM STOREFRONT DOOR SILL DETAIL
6" = 1'-0"



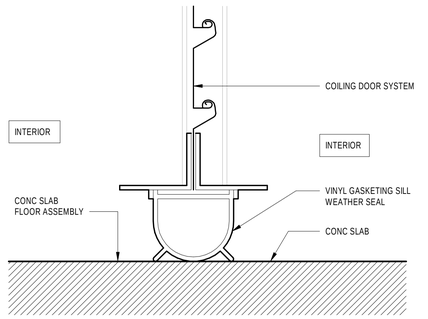
5 EXTERIOR DOOR SILL DETAIL
6" = 1'-0"



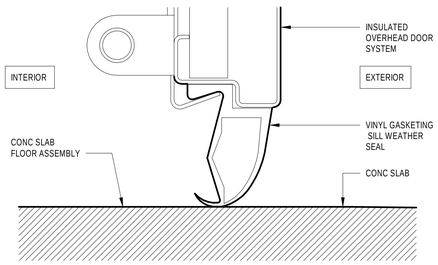
4 TYPICAL INTERIOR DOOR SILL
6" = 1'-0"



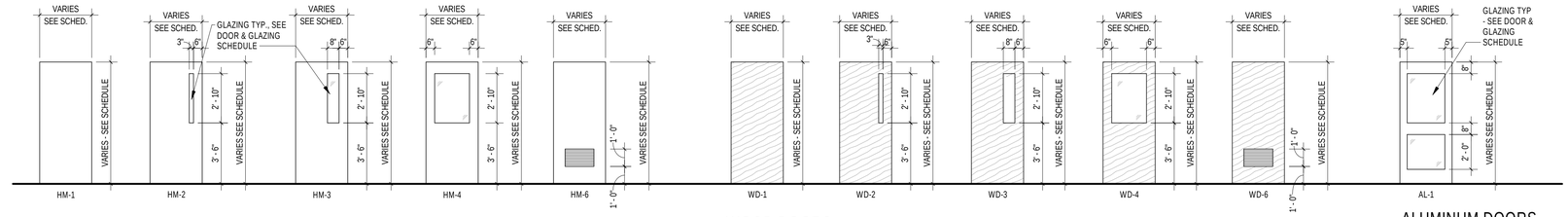
2 MARBLE THRESHOLD SILL DETAIL
6" = 1'-0"



3 COILING DOOR THRESHOLD DETAIL
6" = 1'-0"



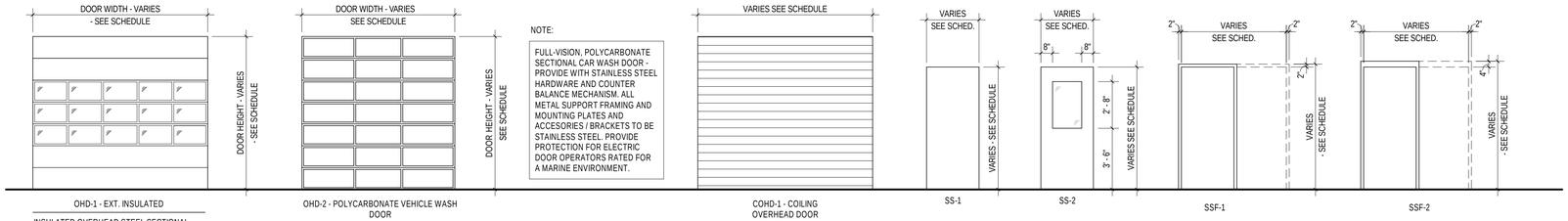
1 OVERHEAD DOOR THRESHOLD DETAIL - FLUSH
6" = 1'-0"



HOLLOW METAL DOORS
SCALE: 1/4" = 1'-0"

WOOD DOORS
SCALE: 1/4" = 1'-0"

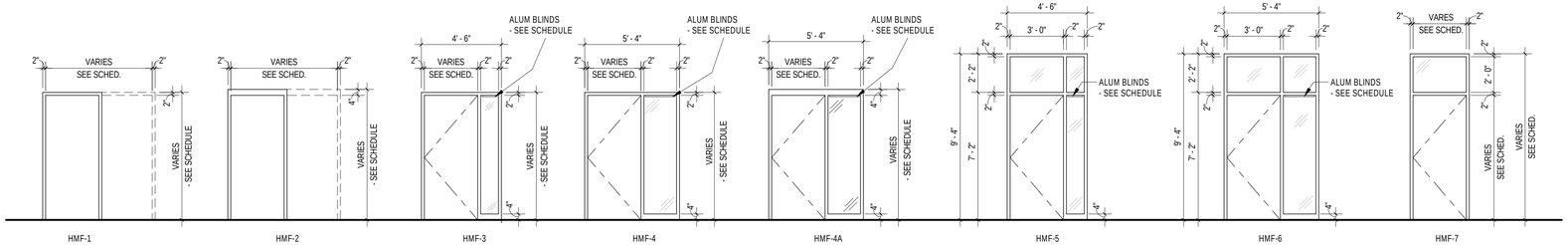
ALUMINUM DOORS
SCALE:1/4" = 1'-0"



OVERHEAD DOORS
SCALE: 1/4" = 1'-0"

STAINLESS STEEL DOORS
SCALE: 1/4" = 1'-0"

STAINLESS STEEL FRAMES
SCALE: 1/4" = 1'-0"



HOLLOW METAL FRAMES
SCALE: 1/4" = 1'-0"

DOOR SCHEDULE

DOOR #	DOOR TYPE	DOOR MATERIAL	DOOR WIDTH	DOOR HEIGHT	FRAMES TYPE	FRAMES MATERIAL	BLINDS	DETAILS HEAD	DETAILS JAMB	DETAILS SILL	GLAZING TYPE	RATING	HDWR SET	CARD READER	DOOR CONTACT	REMARKS
001	HM-1	HM	3' - 0"	7' - 0"	HMF-1	HM		2/A704	3/A704	5/A701	-		2	●	●	ALTERNATE #3
002	OHD-1	-	9' - 0"	7' - 0"	OHD-1	STEEL		1/A706	2/A706	1/A701	-		20		●	ALTERNATE #3
100	AL-1	ALUM	3' - 0"	7' - 0"	AS-4	ALUM		6/A709	5/A709	6/A701	1		1	●	●	ALUMINUM STOREFRONT
101	AL-1	ALUM	3' - 0"	7' - 0"	AS-5	ALUM		7/A709	8/A709	4/A701	2		1	●	●	ALUMINUM STOREFRONT
102	WD-1	WOOD	3' - 0"	7' - 0"	HMF-3	HM	●	9/A702	5/A702	4/A701	2		14	●		
103	WD-1	WOOD	3' - 0"	7' - 0"	HMF-3	HM	●	9/A702	5/A702	4/A701	2		9			
104	WD-1	WOOD	3' - 0"	7' - 0"	HMF-1	HM		9/A702	5/A702	2/A701	-		11			
105	WD-1	WOOD	3' - 0"	7' - 0"	HMF-3	HM	●	9/A702	5/A702	4/A701	2		14	●		
106	WD-1	WOOD	3' - 0"	7' - 0"	HMF-1	HM		9/A702	5/A702	4/A701	-		7			
107	WD-1	WOOD	3' - 0"	7' - 0"	HMF-1	HM		9/A702	5/A702	4/A701	-		15			
108	WD-1	WOOD	3' - 0"	7' - 0"	HMF-1	HM		9/A702	5/A702	4/A701	-		14	●		
109	WD-1	WOOD	6' - 0"	7' - 0"	HMF-1	HM		9/A702	5/A702	4/A701	-		10			
110	WD-1	WOOD	3' - 0"	7' - 0"	HMF-1	HM		9/A702	5/A702	4/A701	-		16			
111	WD-1	WOOD	3' - 0"	7' - 0"	HMF-1	HM		9/A702	5/A702	2/A701	-		11			
112	WD-1	WOOD	3' - 0"	7' - 0"	HMF-1	HM		9/A702	5/A702	2/A701	-		12			
112A	WD-1	WOOD	3' - 0"	7' - 0"	HMF-1	HM		9/A702	5/A702	4/A701	-		12			VINYL TRANSITION STRIP @ SILL
113	WD-1	WOOD	3' - 0"	7' - 0"	HMF-1	HM		9/A702	5/A702	4/A701	-		15			
114	HM-4	HM	3' - 0"	7' - 0"	HMF-1	HM		2/A704	3/A704 SIM	5/A701	1		4		●	EXT.
115	HM-4	HM	3' - 0"	7' - 0"	HMF-1			2/A704	3/A704 SIM	5/A701	1		4		●	EXT.
117	HM-3	HM	3' - 0"	7' - 0"	HMF-1	HM		4/A703	2/A703 SIM	4/A701	2		14	●		
118	HM-3	HM	3' - 0"	7' - 0"	HMF-2	HM		10/A702	6/A702	4/A701	2		5	●	●	
119	HM-2	HM	3' - 0"	7' - 0"	HMF-1	HM		4/A703	2/A703 SIM	4/A701	2		6	●		
120	HM-1	HM	3' - 0"	7' - 0"	HMF-2	HM		10/A702	6/A702	4/A701	2		13			
121	HM-4	HM	3' - 0"	7' - 0"	HMF-1	HM		2/A704	3/A704	5/A701	1		2	●	●	EXT.
122	HM-4	HM	3' - 0"	7' - 0"	HMF-1	HM		2/A704	3/A704	5/A701	1		2	●	●	EXT.
123	OHD-1	-	12' - 0"	12' - 0"	OHD-1	STEEL		1/A706	2/A706	1/A701	-		20		●	O.H.
124	OHD-1	-	20' - 0"	14' - 0"	OHD-1	STEEL		1/A706	2/A706	1/A701	-		20		●	O.H.
125	OHD-1	-	22' - 0"	14' - 0"	OHD-1	STEEL		1/A706	2/A706	1/A701	-		20		●	O.H.
126	OHD-1	-	22' - 0"	14' - 0"	OHD-1	STEEL		1/A706	2/A706	1/A701	-		20		●	O.H.
127	OHD-1	-	22' - 0"	14' - 0"	OHD-1	STEEL		1/A706	2/A706	1/A701	-		20		●	O.H.
128	OHD-1	-	16' - 0"	14' - 0"	OHD-1	STEEL		1/A706	2/A706	1/A701	-		20		●	O.H.
129	OHD-1	-	16' - 0"	14' - 0"	OHD-1	STEEL		1/A706	2/A706	1/A701	-		20		●	O.H.
130	OHD-1	-	16' - 0"	14' - 0"	OHD-1	STEEL		1/A706	2/A706	1/A701	-		20		●	O.H.
131	HM-4	HM	3' - 0"	7' - 0"	HMF-1	HM		2/A704	3/A704	5/A701	1		4	●	●	EXT.
132	HM-2	HM	3' - 0"	7' - 0"	HMF-1	HM		4/A703	2/A703 SIM	4/A701	2		8		●	
133	HM-4	HM	3' - 0"	7' - 0"	HMF-1	HM		2/A704	3/A704	5/A701	1		4		●	EXT.
134	HM-4	HM	3' - 0"	7' - 0"	HMF-1	HM		2/A704	3/A704	5/A701	1		2	●	●	EXT.
135	HM-4	HM	3' - 0"	7' - 0"	HMF-2	HM		10/A702	6/A702	4/A701	2		14	●		
136	HM-3	HM	6' - 0"	7' - 0"	HMF-2	HM		10/A702	6/A702	4/A701	2		18		●	
137	HM-6	HM	3' - 0"	7' - 0"	HMF-2	HM		10/A702	6/A702	4/A701	-		11			
138	HM-1	HM	6' - 0"	7' - 0"	HMF-2	HM		10/A702	6/A702	4/A701		2 HR.	17			
139	SS-1	SS	6' - 0"	7' - 0"	SSF-2	SS		11/A702	7/A702	5/A701 SIM			19			
140	SS-2	SS	3' - 0"	7' - 0"	SSF-1	SS		5/A703	3/A703	5/A701			3		●	EXT.
141	SS-2	SS	3' - 0"	7' - 0"	SSF-1	SS		5/A703	3/A703	5/A701			4		●	EXT.
142	OHD-2	-	16' - 0"	14' - 0"	OHD-2	STEEL		4/A706	3/A706	1/A701			20		●	O.H.
143	HM-1	HM	3' - 0"	7' - 0"	HMF-2	HM		10/A702	6/A702	4/A701			16			
144	COHD-1	-	7' - 0"	9' - 5"	HSS	STEEL		1/A707	2/A707	3/A701			20		●	ALTERNATE #3
201	HM-1	HM	6' - 0"	7' - 0"	HMF-1	HM		9/A702	5/A702	-			17			

Project:

VILLAGE OF ARDSLEY

NEW PUBLIC WORKS FACILITY

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RHINEBECK ARCHITECTURE

Seal:

REGISTERED ARCHITECT JOHN JOSEPH SHEEHY STATE OF NEW YORK 022726

Revisions:

Rev	Date	Description

Issued For: BID

PROJECT TRUE

SCALE: AS NOTED

Date: 4/7/22

Drawn By: BG

Reviewed By: JS

Approved By: JS/BG

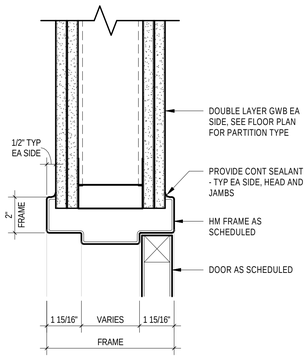
W&S Project No: N2190088

Drawing Title:

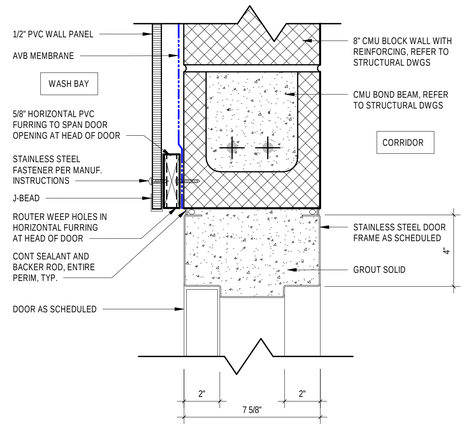
DOOR SCHEDULE & DOOR / FRAME TYPES

Sheet Number:

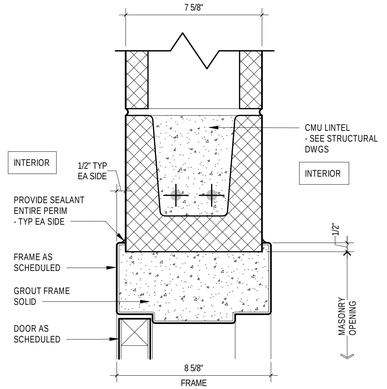
A701



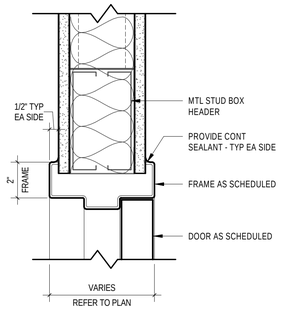
12 DOOR HEAD - 2HR RATED
3" = 1'-0"



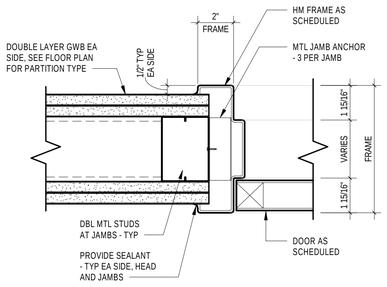
11 VEHICLE WASH BAY - INTERIOR CMU DOOR HEAD DETAIL
3" = 1'-0"



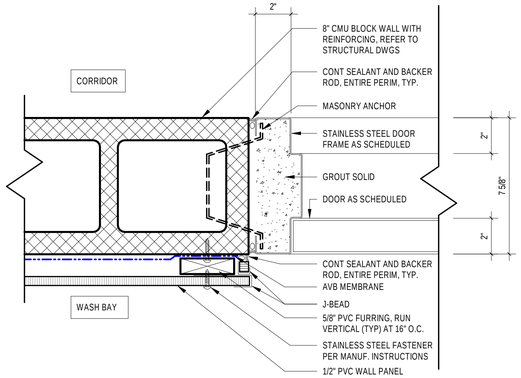
10 CMU DOOR HEAD DETAIL - GROUT FILLED FRAME, WRAP AROUND FRAME
3" = 1'-0"



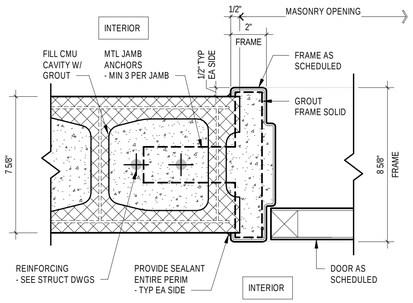
9 TYP HEAD DETAIL - HM DOOR AT MTL STUD
3" = 1'-0"



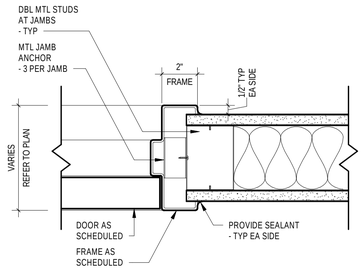
8 DOOR JAMB - 2 HR RATED
3" = 1'-0"



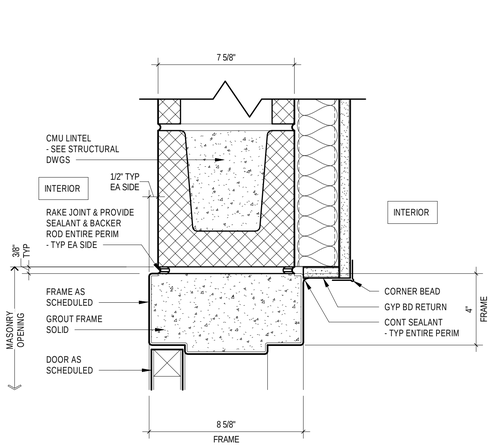
7 VEHICLE WASH BAY - INTERIOR CMU DOOR JAMB DETAIL
3" = 1'-0"



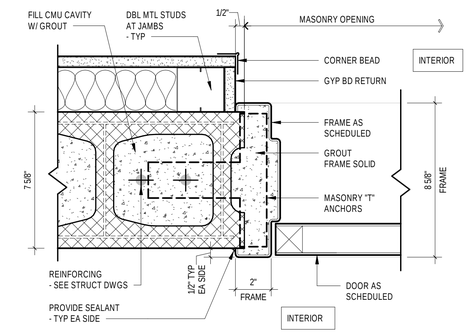
6 CMU DOOR JAMB DETAIL - GROUT FILLLED FRAME, WRAP AROUND FRAME
3" = 1'-0"



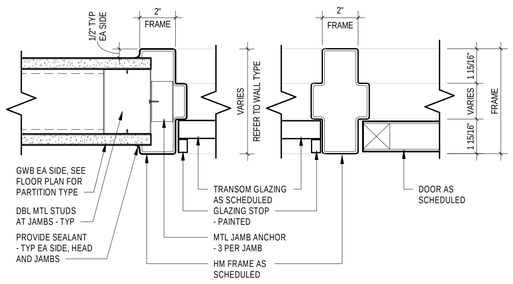
5 TYP JAMB DETAIL - HM DOOR AT MTL STUD
3" = 1'-0"



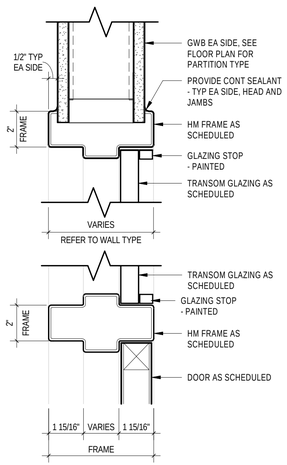
4 CMU / FUR-OUR DOOR HEAD
3" = 1'-0"



3 CMU / FUR-OUR DOOR JAMB
3" = 1'-0"



2 HM DOOR W/ SIDE LITE AT METAL STUD WITH TRANSOM, TYP - JAMB
3" = 1'-0"



1 HM DOOR AT METAL STUD WITH TRANSOM, TYP - HEAD
3" = 1'-0"

Project:

VILLAGE OF ARDSLEY

NEW PUBLIC WORKS FACILITY

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RHINEBECK ARCHITECTURE

Seal:

REGISTERED ARCHITECT JOHN JOSEPH SARGENT 022726 STATE OF NEW YORK

Revisions:

Rev	Date	Description

Issued For: BID

PROJECT TRUE

SCALE: AS NOTED

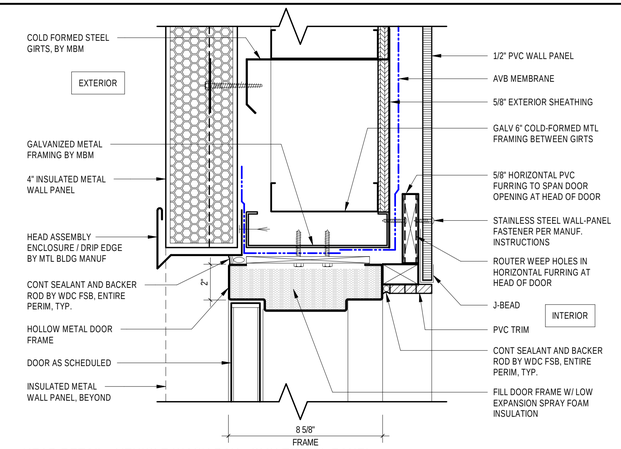
Date:	4/7/22
Drawn By:	BG
Reviewed By:	JS
Approved By:	JS/BG
W&S Project No:	N2190088

Drawing Title:

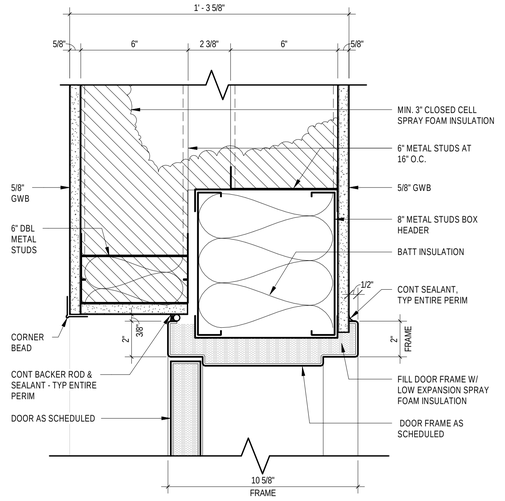
DOOR DETAILS I

Sheet Number:

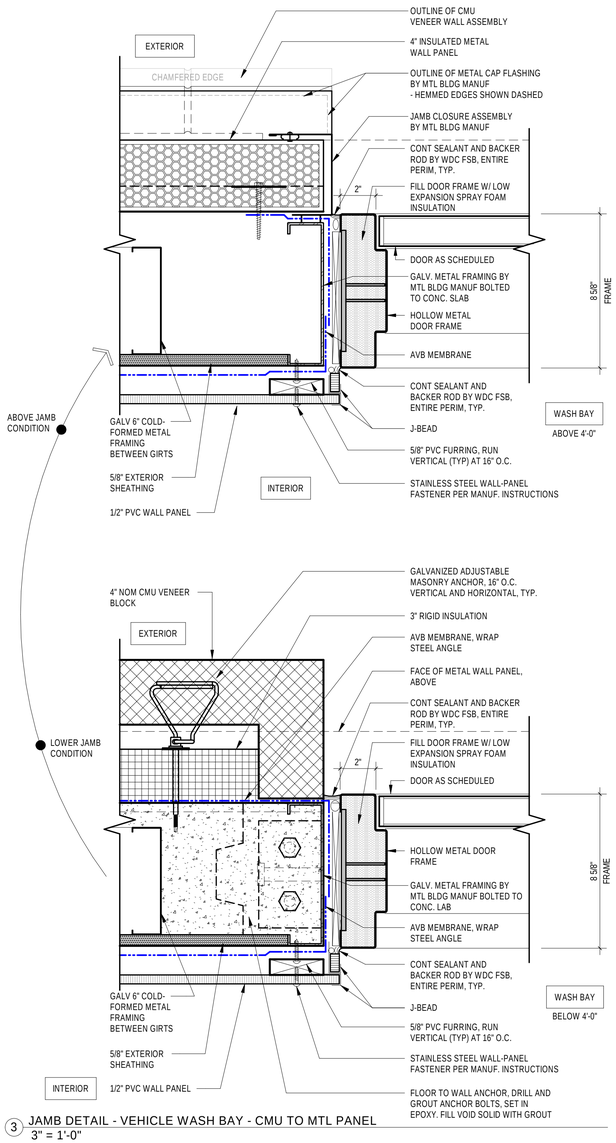
A702



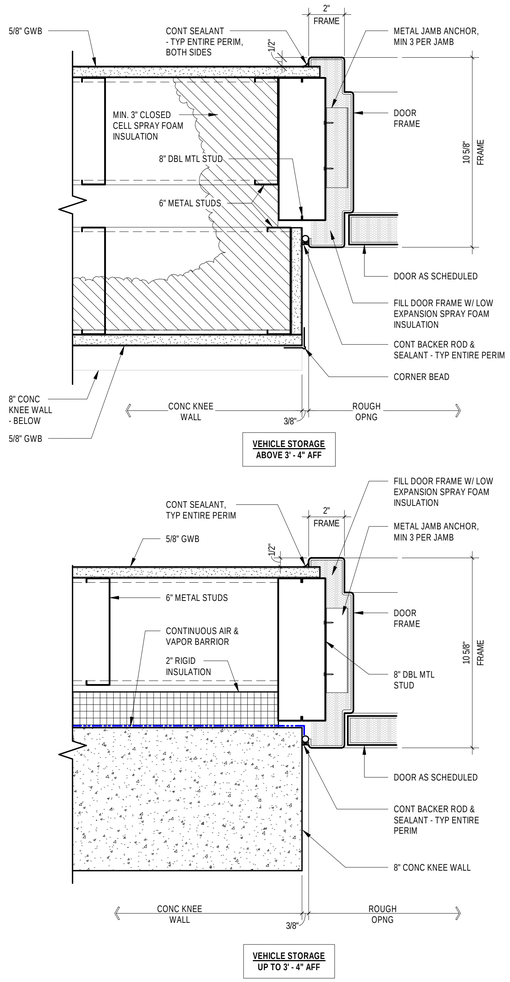
5 HEAD DETAIL - VEHICLE WASH BAY - CMU TO MTL PANEL
3" = 1'-0"



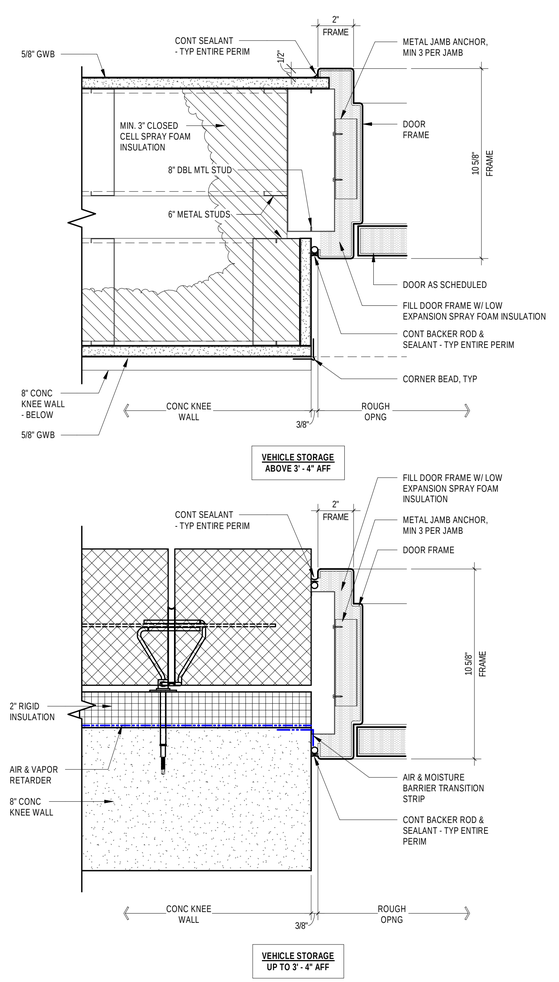
4 FUME SEPARATION WALL (TYPE 1 & 2) - DOOR HEAD
3" = 1'-0"



3 JAMB DETAIL - VEHICLE WASH BAY - CMU TO MTL PANEL
3" = 1'-0"



2 FUME SEPARATION WALL (TYPE 2) - DOOR JAMB
3" = 1'-0"



1 FUME SEPARATION WALL (TYPE 1) - DOOR JAMB
3" = 1'-0"

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RHINEBECK ARCHITECTURE

Seal:

Revisions:

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SCALE: AS NOTED

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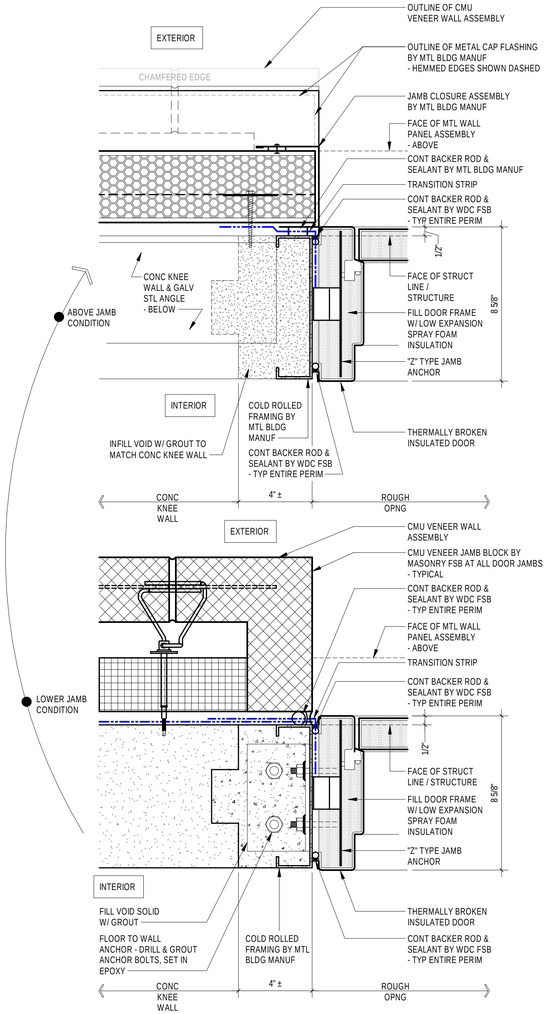
Drawn By:	BG
Reviewed By:	JS
Approved By:	JS/BG
W&S Project No:	N2190088

Drawing Title:

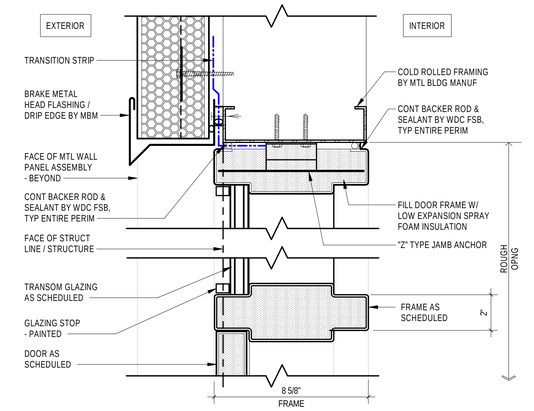
DOOR DETAILS II

Sheet Number:

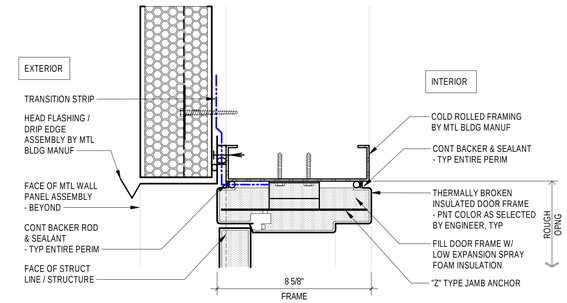
A703



3 METAL PANEL HM DOOR JAMB DETAIL - BRAKE METAL
3" = 1'-0"



1 HEAD DETAIL - METAL PANEL HM DOOR WITH TRANSOM - BRAKE METAL
3" = 1'-0"



2 METAL PANEL HM DOOR HEAD DETAIL - BRAKE METAL
3" = 1'-0"

Project:

VILLAGE OF ARDSLEY

NEW PUBLIC WORKS FACILITY

220 HEATHERDELL ROAD,
VILLAGE OF ARDSLEY,
NEW YORK 10502

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RHINEBECK ARCHITECTURE

Seal:

REGISTERED ARCHITECT
JOHN JOSEPH SHEEHY
022726
STATE OF NEW YORK

Revisions:

Rev	Date	Description

Issued For: BID

PROJECT TRUE

SCALE: AS NOTED

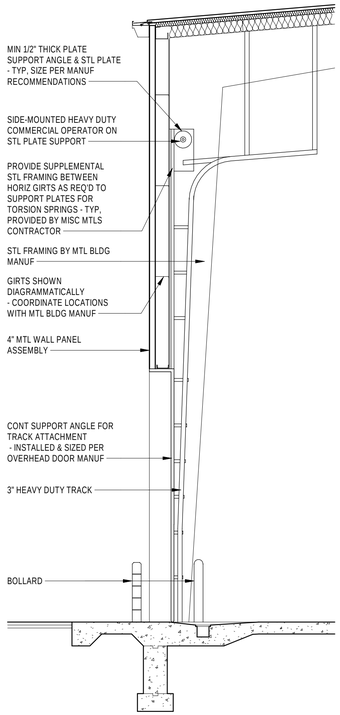
Date:	4/7/22
Drawn By:	BG
Reviewed By:	JS
Approved By:	JS/BG
W&S Project No:	N2190088

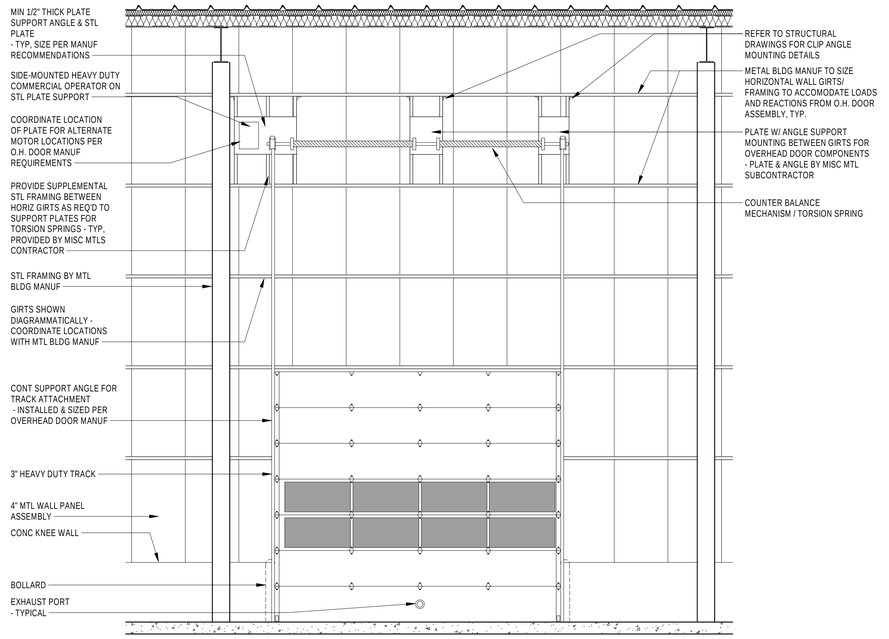
Drawing Title:

DOOR DETAILS III

Sheet Number:

A704





GENERAL OVERHEAD DOOR NOTES:

A. SUPPLEMENTAL VERTICAL 3X3 STEEL ANGLES WITH WELD ATTACHED PLATES TO BE PROVIDED AND INSTALLED BY MISC METALS SUBCONTRACTOR.

B. VERTICAL ANGLES TO HAVE WELDED CLIP ANGLES BOLTED TO HORIZONTAL GIRT FRAMING.

C. SIZE AND QUANTITY OF ANGLES AND PLATES TO BE PROVIDED AT ALL LOCATIONS AS NECESSARY FOR COMPLETE INSTALLATION OF SECTIONAL DOORS, TRACKS, MOTORS, AND SPRINGS, TYP.

D. COORDINATE REQUIREMENTS WITH SECTIONAL DOOR MANUF.

E. COORDINATE / APPROVE ATTACHMENT TO BUILDING GIRT FRAMING WITH METAL BUILDING MANUF.

F. LAYOUT OF SUPPLEMENTAL STEEL IS SHOWN FOR DESIGN INTENT ONLY. ACTUAL SIZES AND QUANTITY OF STEEL TO BE REQUIRED / COORDINATED WITH SECTIONAL DOOR MANUF.

G. THE MISC MTLS CONTRACTOR SHALL FURNISH AND INSTALL UP TO (3) TORSION SPRING MOUNTING PLATES AND (1) OPERATOR MOUNTING PLATE AT EACH LOCATION. EACH PLATE SHALL BE SUPPORTED BY STEEL ANGLES. PLATE AND ANGLES SHALL BE PAINTED. COORDINATE PLATE SIZE, LOCATION AND LAYOUT WITH THE OVERHEAD DOOR INSTALLER AND APPROVED SUBMITTAL DRAWINGS, TYPICAL ALL OVERHEAD DOORS.

H. PROVIDE COMPONENTS DESIGNED FOR A MARINE ENVIRONMENT, INCLUDING BUT NOT LIMITED TO TENSION SPRINGS, TRACKS, BOLTS, PANEL CONNECTORS, & MOTOR OPERATOR. ALL ELECTRICAL CONTROLS & CONNECTIONS SHALL BE N.E.M.A 4 RATED IN "VEHICLE WASH BAY".

I. THE ELECTRICAL CONTRACTOR SHALL PROVIDE DISCONNECT SWITCHES, STARTERS AND ALL LINE VOLTAGE WIRING AND CONDUIT TO OVERHEAD DOOR OPERATORS. THE HAND-OFF-AUTO SWITCH, PUSH BUTTON CONTROL STATION (MOMENTARY UP-STOP-DOWN) AND CONTROLLER IS FURNISHED BY THE OVERHEAD DOOR MANUFACTURER AND INSTALLED BY THE ELECTRICAL CONTRACTOR. THE ELECTRICAL CONTRACTOR IS TO PROVIDE CONDUIT AND WIRING BETWEEN THE HAND-OFF-AUTO SWITCH, THE PUSH BUTTON CONTROL STATION AND CONTROLLER PER OVERHEAD DOOR MANUFACTURER REQUIREMENTS. FURNISHING AND INSTALLATION OF THE MOTOR UNIT, OPTICAL SENSORS , PNEUMATIC DOOR SAFETY BOTTOM, LOW VOLTAGE WIRING AND ALL OTHER ACCESSORIES ASSOCIATED WITH THE OVERHEAD DOORS SHALL BE THE RESPONSIBILITY OF THE OVERHEAD DOOR CONTRACTOR.

J. METAL BLDG MANUF SHALL PROVIDE SUFFICIENT GIRT FRAMING BETWEEN TRANSLUCENT PANEL FRAMED OPENINGS AND EAVE GIRT / RIDGE FRAMING TO ALLOW MISC METALS CONTRACTOR TO CONNECT SUPPLEMENTAL FRAMING AS SHOWN.

K. ALL SUPPLEMENTAL STEEL TO BE PAINTED BY THE PAINTING CONTRACTOR.

1 OVERHEAD DOOR ELEVATION & SECTION
1/4" = 1'-0"

Project:

VILLAGE OF ARDSLEY

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RHINEBECK ARCHITECTURE

Seal:

REGISTERED ARCHITECT JOHN JOSEPH SARGENT STATE OF NEW YORK 022726

Revisions:

Rev	Date	Description

Issued For: BID

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Drawn By: BG

Reviewed By: JS

Approved By: JS/BG

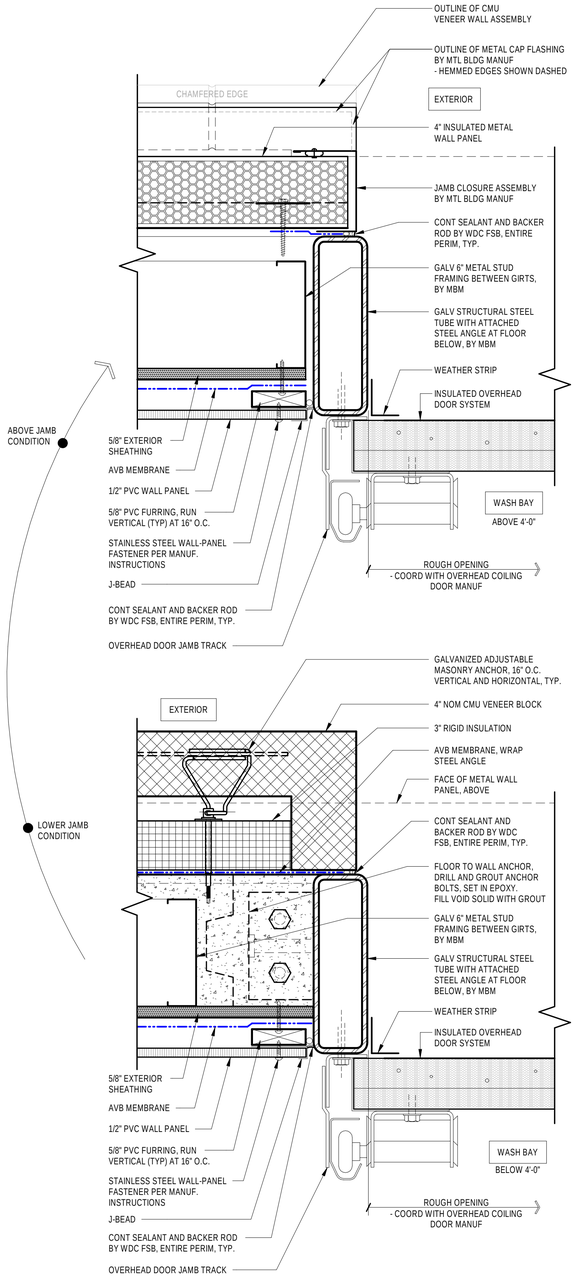
W&S Project No: N2190088

Drawing Title:

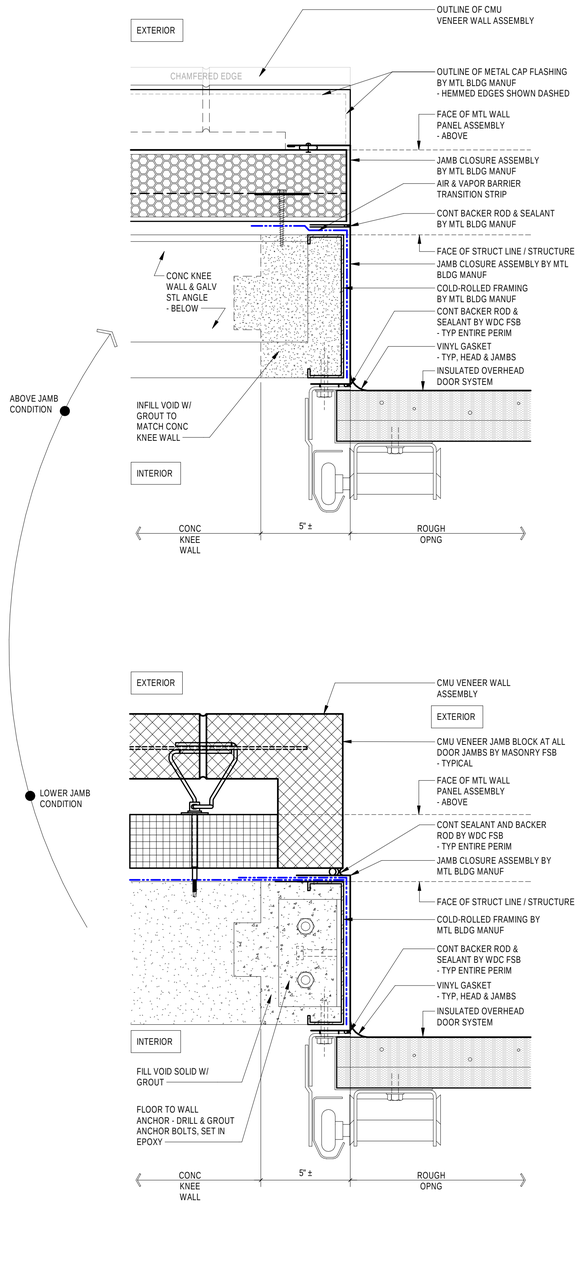
OVERHEAD DOOR

Sheet Number:

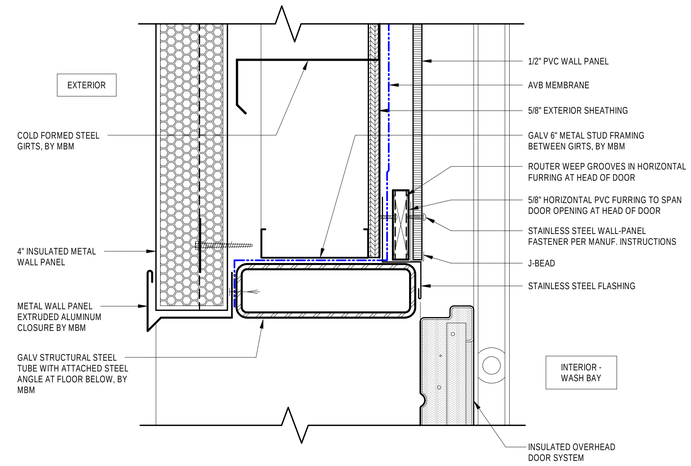
A705



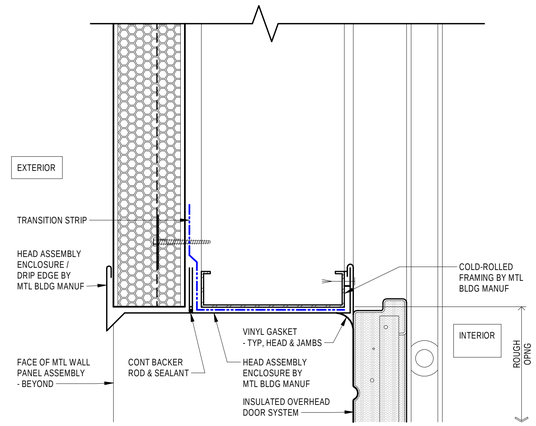
5 JAMB DETAIL - VEHICLE WASH BAY - INSULATED O.H. DOOR
3" = 1'-0"



2 METAL PANEL INSULATED OVERHEAD DOOR JAMB DETAIL - BRAKE METAL
3" = 1'-0"



4 HEAD DETAIL - VEHICLE WASH BAY - INSULATED O.H. DOOR
3" = 1'-0"



1 METAL PANEL INSULATED OVERHEAD DOOR HEAD DETAIL - BRAKE METAL
3" = 1'-0"

Project:

VILLAGE OF ARDSLEY

NEW PUBLIC WORKS FACILITY

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RHINEBECK ARCHITECTURE

Seal:

Revisions:

Rev	Date	Description

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Date:	4/7/22
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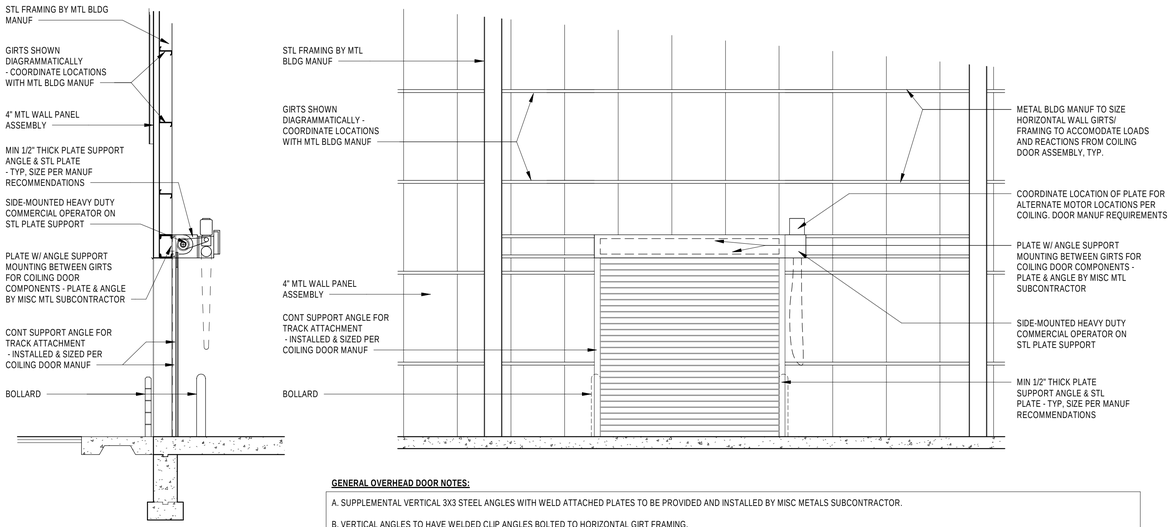
Reviewed By:	JS
Approved By:	JS/BG
W&S Project No:	N2190088

Drawing Title:

OVERHEAD DOOR DETAILS

Sheet Number:

A706



GENERAL OVERHEAD DOOR NOTES:

A. SUPPLEMENTAL VERTICAL 3X3 STEEL ANGLES WITH WELD ATTACHED PLATES TO BE PROVIDED AND INSTALLED BY MISC METALS SUBCONTRACTOR.

B. VERTICAL ANGLES TO HAVE WELDED CLIP ANGLES BOLTED TO HORIZONTAL GIRT FRAMING.

C. SIZE AND QUANTITY OF ANGLES AND PLATES TO BE PROVIDED AT ALL LOCATIONS AS NECESSARY FOR COMPLETE INSTALLATION OF COILING DOORS, TRACKS, MOTORS, AND SPRINGS, TYP.

D. COORDINATE REQUIREMENTS WITH COILING DOOR MANUF PRIOR TO SUBMISSION OF SHOP DRAWINGS.

E. COORDINATE / APPROVE ATTACHMENT TO BUILDING GIRT FRAMING WITH METAL BUILDING MANUF PRIOR TO SUBMISSION OF SHOP DRAWINGS.

F. LAYOUT OF SUPPLEMENTAL STEEL IS SHOWN FOR DESIGN INTENT ONLY. ACTUAL SIZES AND QUANTITY OF STEEL TO BE REQUIRED / COORDINATED WITH COILING DOOR MANUF.

G. THE MISC MTLS CONTRACTOR SHALL FURNISH AND INSTALL UP TO (3) TORSION SPRING MOUNTING PLATES AND (1) OPERATOR MOUNTING PLATE AT EACH LOCATION. EACH PLATE SHALL BE SUPPORTED BY STEEL ANGLES. PLATE AND ANGLES SHALL BE PAINTED. COORDINATE PLATE SIZE, LOCATION AND LAYOUT WITH THE COILING DOOR INSTALLER AND APPROVED SUBMITTAL DRAWINGS, TYPICAL ALL COILING
H. PROVIDE COMPONENTS DESIGNED FOR A MARINE ENVIRONMENT, INCLUDING BUT NOT LIMITED TO TENSION SPRINGS, TRACKS, BOLTS, PANEL CONNECTORS, & MOTOR OPERATOR. ALL ELECTRICAL CONTROLS & CONNECTIONS SHALL BE N.E.M.A 4 RATED IN "VEHICLE WASH BAY".

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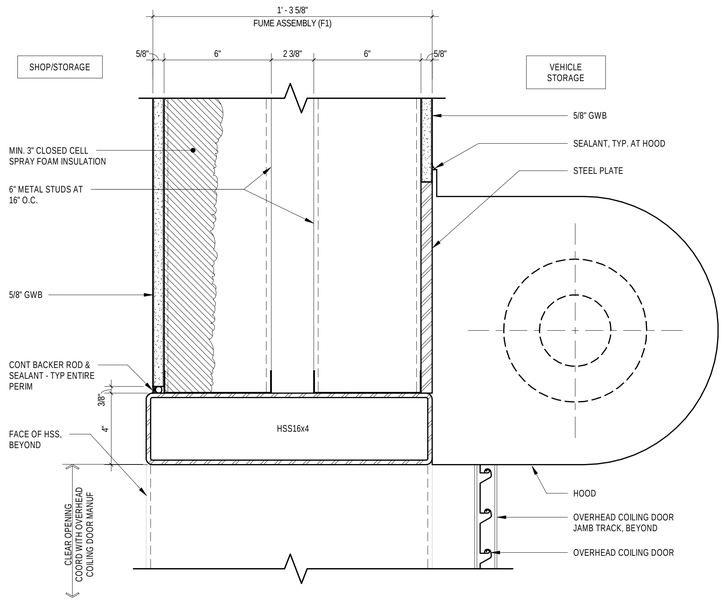
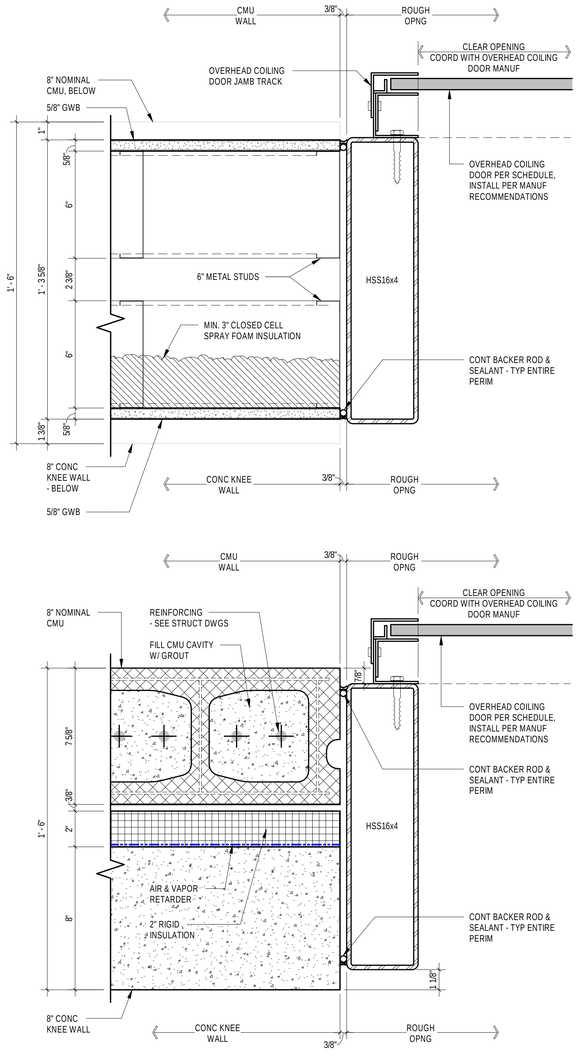
J. ALL SUPPLEMENTAL STEEL TO BE PAINTED BY THE PAINTING CONTRACTOR.

3 COILING DOOR MISC METALS
1/4" = 1'-0"



1 FUME SEPARATION WALL (TYPE 2) - COILING DOOR HEAD
3" = 1'-0"



2 FUME SEPARATION WALL (TYPE 2) - COILING DOOR JAMB
3" = 1'-0"

Project:

VILLAGE OF ARDSLEY

NEW PUBLIC WORKS FACILITY

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RHINEBECK ARCHITECTURE

Seal:

Revisions:

Rev	Date	Description

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PROJECT TRUE

SCALE: AS NOTED

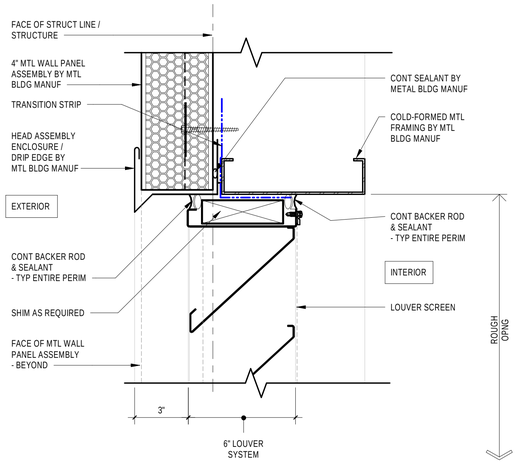
Date:	4/7/22
Drawn By:	BG
Reviewed By:	JS
Approved By:	JS/BG
W&S Project No:	N2190088

Drawing Title:

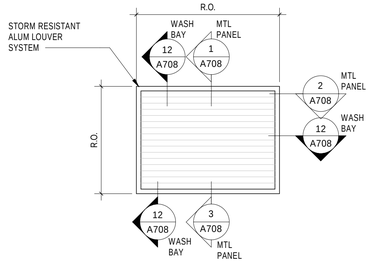
COILING DOOR DETAILS

Sheet Number:

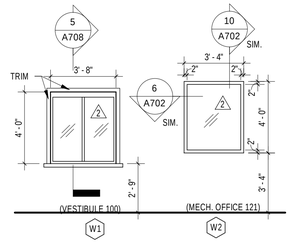
A707



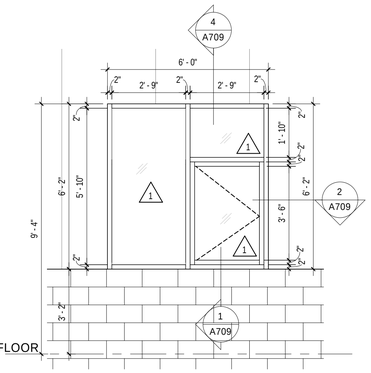
1 LOUVER HEAD DETAIL
3" = 1'-0"



4 LOUVER ELEVATION
3/8" = 1'-0"



6 WINDOW ELEVATIONS
1/4" = 1'-0"

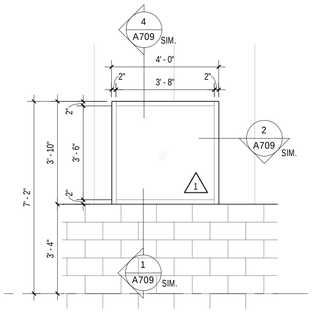


ADMIN FLOOR
272' - 6"

7 AS-1
3/8" = 1'-0"

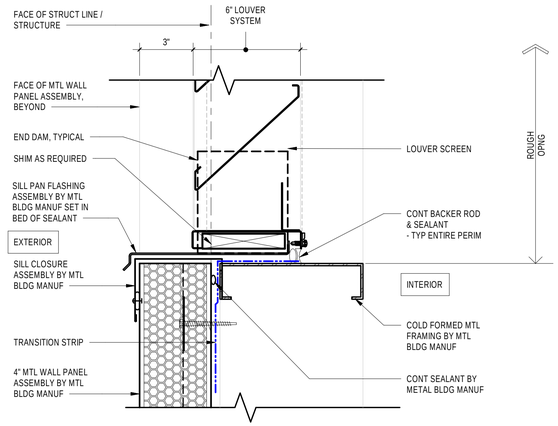
LOUVER SCHEDULE				
TYPE	WIDTH	HEIGHT	COUNT	COMMENTS
LV-A	6' - 0"	5' - 6"	5	
LV-B	4' - 6"	4' - 0"	3	
LV-C	3' - 6"	2' - 0"	2	
LV-D	2' - 0"	1' - 6"	1	

GLAZING SCHEDULE		
TYPE	DESCRIPTION	USE IN THESE LOCATIONS
1	1" CLEAR INSULATING TEMPERED GLASS	ALL EXTERIOR DOORS, CURTAIN WALL, STOREFRONT, & WINDOWS
2	1/4" CLEAR TEMPERED	ALL INTERIOR NON-FIRE RATED DOORS, INTERIOR WINDOWS/STOREFRONTS



FIRST FLOOR
275' - 0"

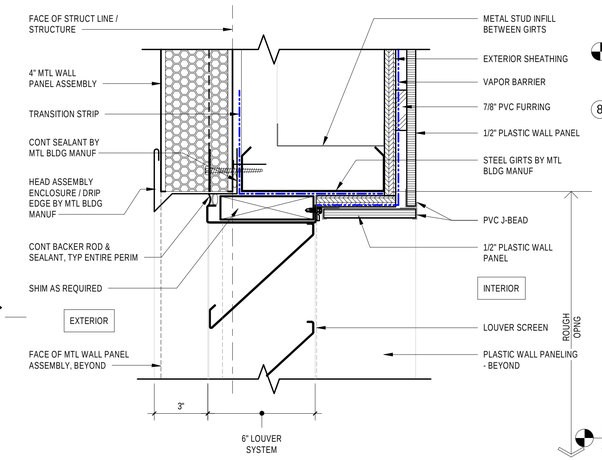
8 AS-2
3/8" = 1'-0"



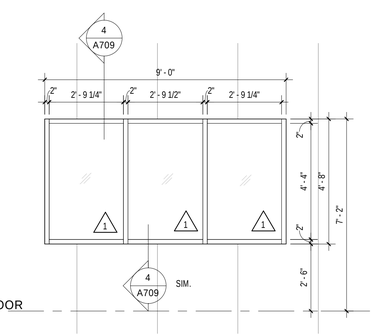
2 LOUVER JAMB DETAIL - MTL PANEL - BRAKE METAL
3" = 1'-0"

5 INSULATED SLIDING WINDOW - RECEPTION
1 1/2" = 1'-0"

3 LOUVER SILL DETAIL
3" = 1'-0"

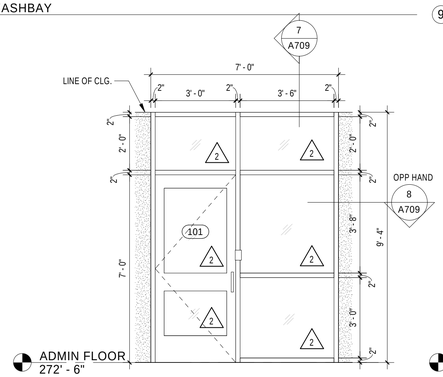


12 LOUVER DETAIL - WASHBAY
3" = 1'-0"



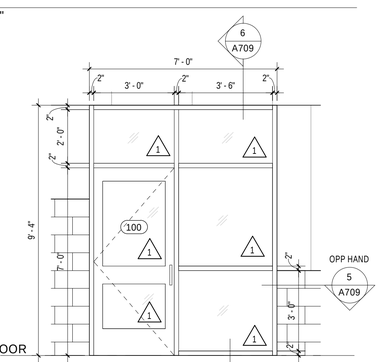
FIRST FLOOR
275' - 0"

9 AS-3
3/8" = 1'-0"



ADMIN FLOOR
272' - 6"

11 AS-5
3/8" = 1'-0"



ADMIN FLOOR
272' - 6"

10 AS-4
3/8" = 1'-0"

Project:

VILLAGE OF ARDSLEY

NEW PUBLIC WORKS FACILITY

220 HEATHERDELL ROAD,
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NEW YORK 10502

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RHINEBECK ARCHITECTURE

Seal:

REGISTERED ARCHITECT JOHN JOSEPH SARGENT STATE OF NEW YORK 022726

Revisions:

Rev	Date	Description

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Date:	4/7/22
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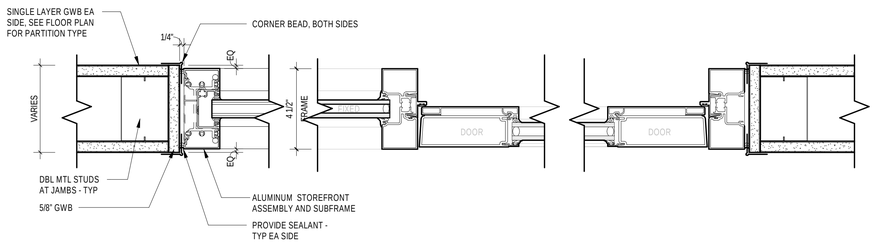
Reviewed By:	JS
Approved By:	JS/BG
W&S Project No:	N2190088

Drawing Title:

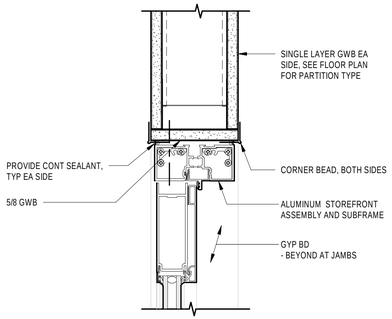
STOREFRONT, LOUVER, WINDOW TYPES & DETAILS

Sheet Number:

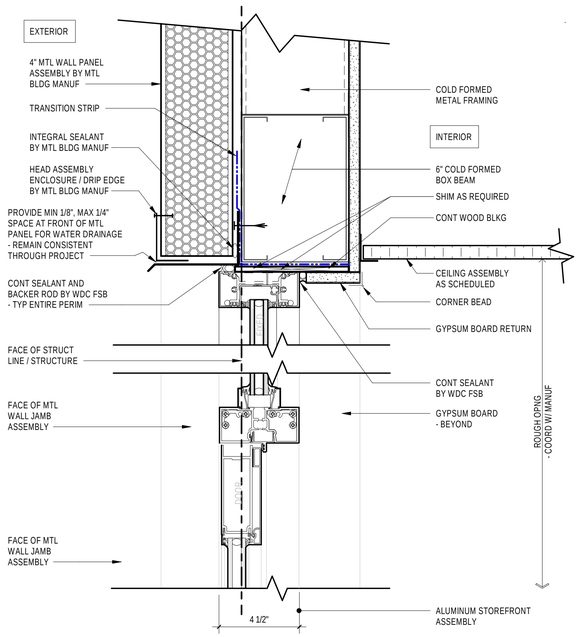
A708



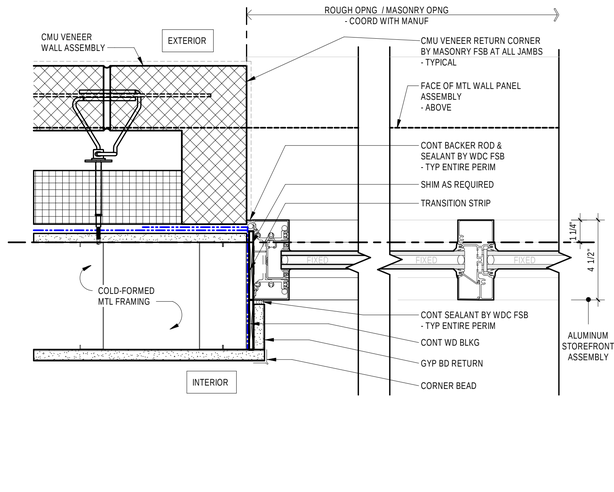
8 TYP JAMB DETAIL - INTERIOR STOREFRONT AT MTL STUD WITH SIDELITE
3" = 1'-0"



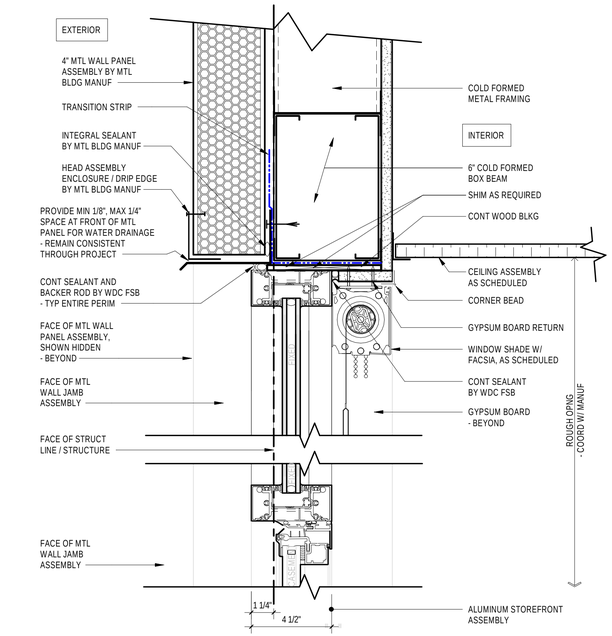
7 TYP HEAD DETAIL - INTERIOR STOREFRONT AT MTL STUD
3" = 1'-0"



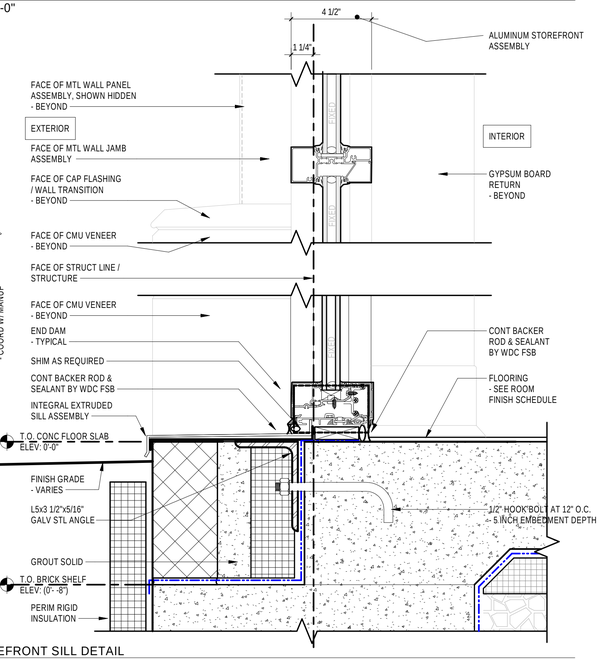
6 DOOR HEAD
3" = 1'-0"



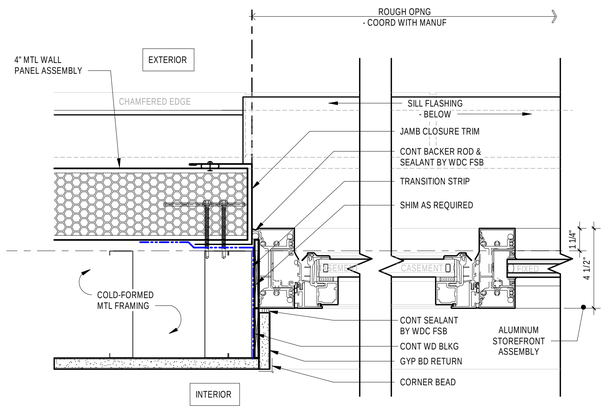
5 STOREFRONT JAMB DETAIL
3" = 1'-0"



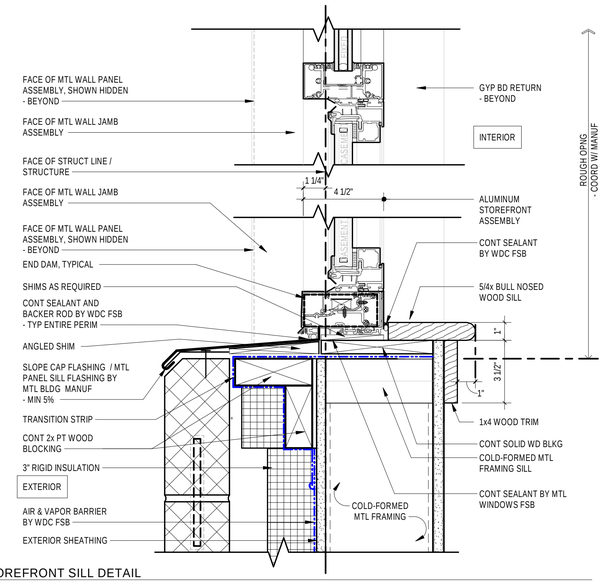
4 STOREFRONT HEAD DETAIL
3" = 1'-0"



3 STOREFRONT SILL DETAIL
3" = 1'-0"



2 STOREFRONT JAMB DETAIL
3" = 1'-0"



1 STOREFRONT SILL DETAIL
3" = 1'-0"

Project:

VILLAGE OF ARDSLEY

NEW PUBLIC WORKS FACILITY

220 HEATHERDELL ROAD,
VILLAGE OF ARDSLEY,
NEW YORK 10502

Weston & Sampson Engineers, Inc.
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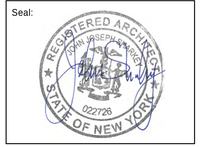
RHINEBECK ARCHITECTURE

Seal:



Revisions:

Rev	Date	Description

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SCALE: AS NOTED

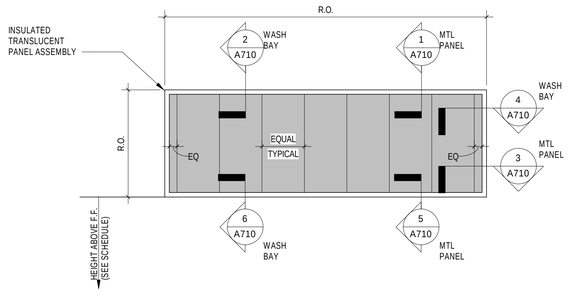
Date:	4/7/22
Drawn By:	BG
Reviewed By:	JS
Approved By:	JS/BG
W&S Project No:	N2190088

Drawing Title:

STOREFRONT DETAILS

Sheet Number:

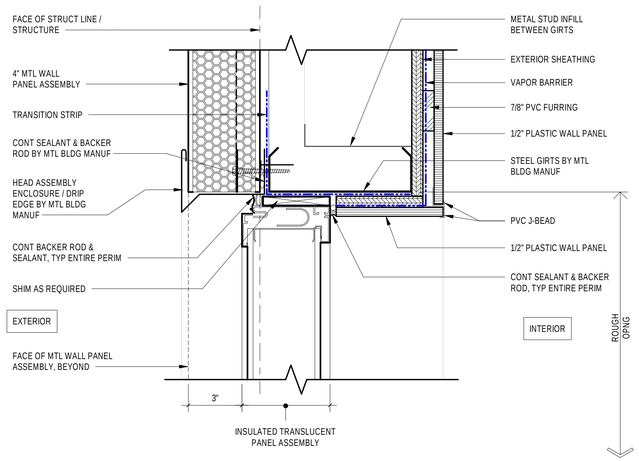
A709



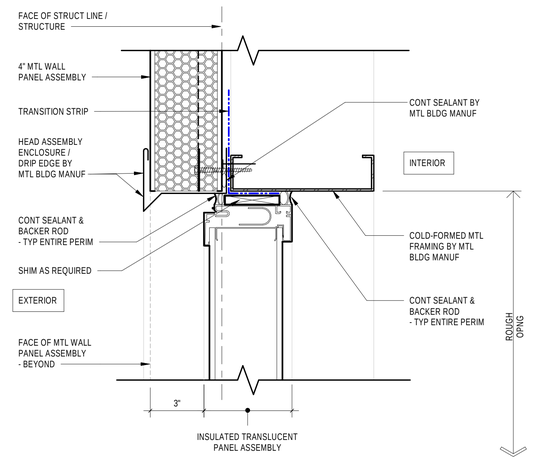
10 INSULATED TRANSLUCENT PANEL ELEVATION
3/8" = 1'-0"

INSULATED TRANSLUCENT PANEL ASSEMBLY SCHEDULE

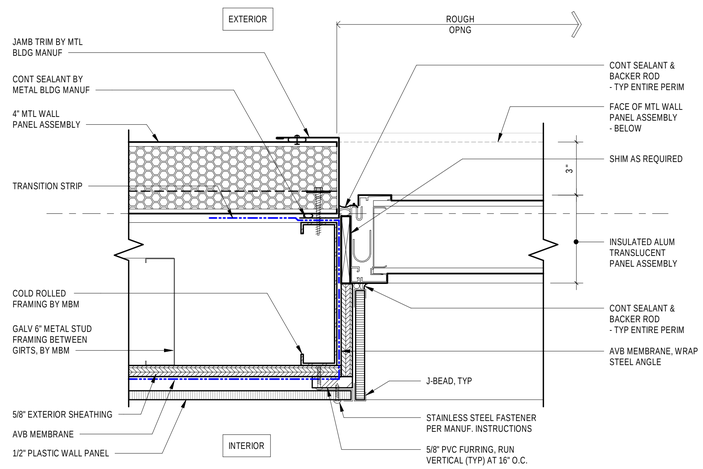
Mark	WIDTH	HEIGHT	COUNT	HT. AFF (1ST FLR)	COMMENTS
TP1	22' - 0"	4'-0"	3	18' - 0"	
TP2	20' - 0"	4'-0"	10	18' - 0"	
TP3	16' - 0"	4'-0"	5	18' - 0"	



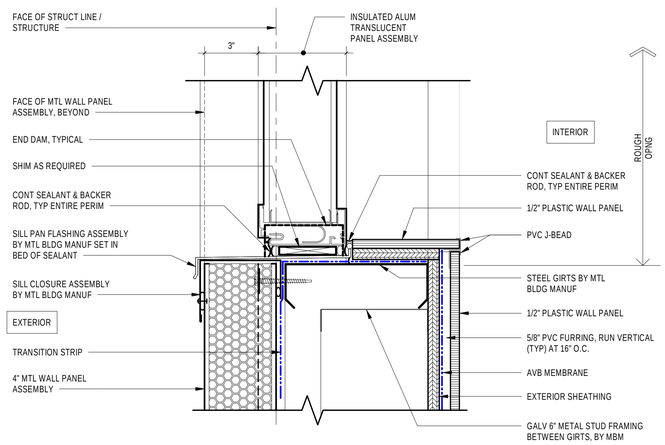
2 INSULATED TRANSLUCENT PANEL HEAD DETAIL
3" = 1'-0"



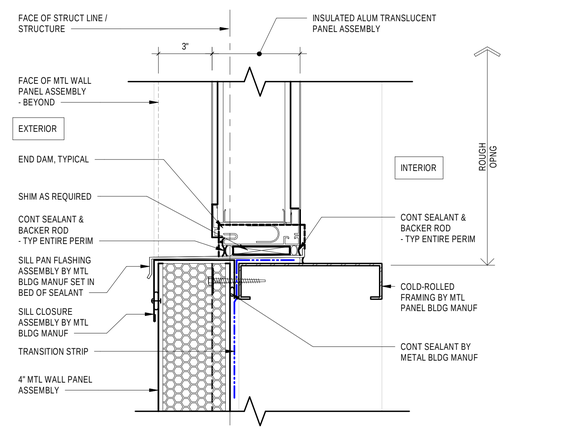
1 INSULATED TRANSLUCENT PANEL HEAD DETAIL
3" = 1'-0"



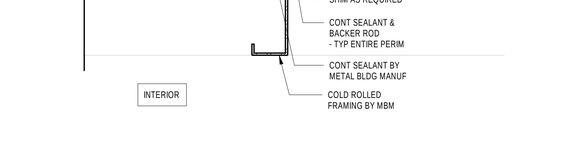
4 INSULATED TRANSLUCENT PANEL JAMB DETAIL
3" = 1'-0"



6 INSULATED TRANSLUCENT PANEL SILL DETAIL
3" = 1'-0"



3 INSULATED TRANSLUCENT PANEL JAMB DETAIL
3" = 1'-0"



5 INSULATED TRANSLUCENT PANEL SILL DETAIL
3" = 1'-0"

Project:

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RHINEBECK ARCHITECTURE

Seal:

REGISTERED ARCHITECT JOHN JOSEPH GRACE STATE OF NEW YORK 022726

Revisions:

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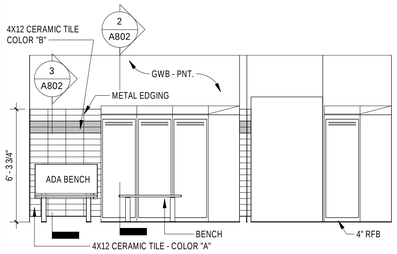
Reviewed By:	JS
Approved By:	JS/BG
W&S Project No:	N2190088

Drawing Title:

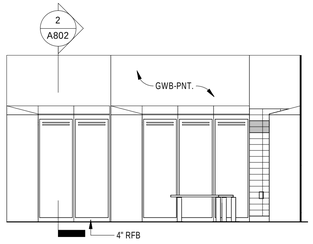
TRANSLUCENT PANEL TYPES & DETAILS

Sheet Number:

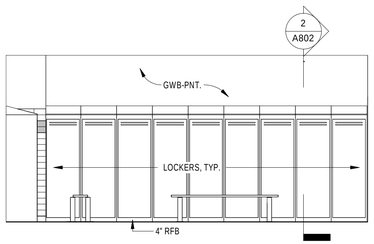
A710



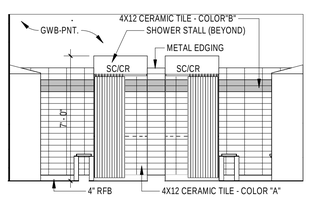
4 INTERIOR ELEVATION A - MEN'S LOCKER RM.
1/4" = 1'-0"



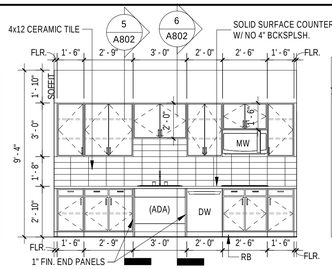
5 INTERIOR ELEVATION B - MEN'S LOCKER RM.
1/4" = 1'-0"



6 INTERIOR ELEVATION C - MEN'S LOCKER RM.
1/4" = 1'-0"



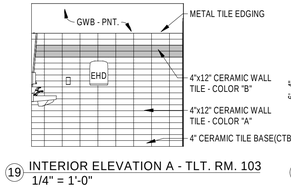
7 INTERIOR ELEVATION D - MEN'S LOCKER RM.
1/4" = 1'-0"



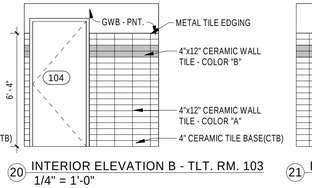
2 INTERIOR ELEVATION A - KITCHEN
1/4" = 1'-0"

TOILET ROOM GENERAL NOTES:

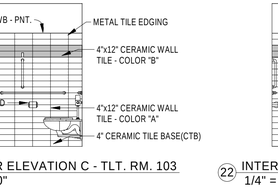
1. PROVIDE METAL EDGE TRIM PERIMETER AND CEMENTITIOUS TILE BACK BOARD, CEMENT BOARD, AT ALL CERAMIC TILE LOCATIONS, TYPICAL.
2. PROVIDE CONT. BLOCKING AT SHELVING, ACCESS PANELS, DISPLAY MONITORS, MARKER BOARDS ETC. COORDINATE LOCATION IN FIELD.
3. MOISTURE RESISTANT (MR) GYPSUM BOARD TO BE USED IN ALL TOILET ROOM / RESTROOM FACILITIES.
4. PROVIDE PVC SHIMS AS NECESSARY TO MAKE TOILET ROOM ACCESSORIES SUCH AS PTD'S, MIRRORS, SD'S, TOILET PARTITIONS, ETC., FLUSH ON FINISHED WALL.



8 INTERIOR ELEVATION A - MEN
1/4" = 1'-0"

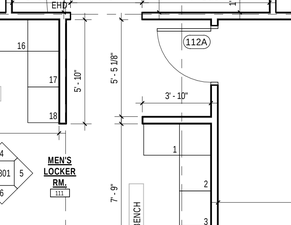


9 INTERIOR ELEVATION B - MEN
1/4" = 1'-0"



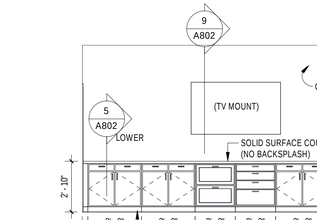
10 INTERIOR ELEVATION C - MEN
1/4" = 1'-0"

11 INTERIOR ELEVATION D - MEN
1/4" = 1'-0"



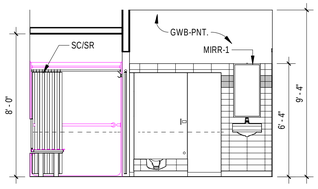
3 INTERIOR ELEVATION B - KITCHEN
1/4" = 1'-0"

12 INTERIOR ELEVATION A - WOMEN'S TLT/LOCKER
1/4" = 1'-0"

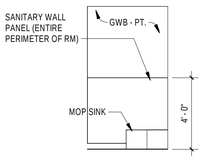


13 INTERIOR ELEVATION B - WOMEN'S TLT/LOCKER
1/4" = 1'-0"

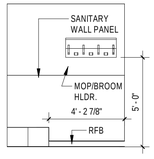
14 INTERIOR ELEVATION C - WOMEN'S TLT/LOCKER
1/4" = 1'-0"



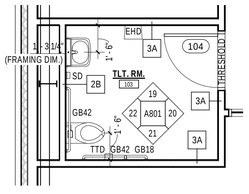
15 INTERIOR ELEVATION D - WOMEN'S TLT/LOCKER
1/4" = 1'-0"



16 INTERIOR ELEVATION A - JAN. CLOS.
1/4" = 1'-0"



17 INTERIOR ELEVATION B - JAN. CLOS.
1/4" = 1'-0"

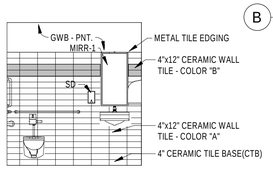


18 ENLARGED PLAN - TOILET ROOM
1/4" = 1'-0"

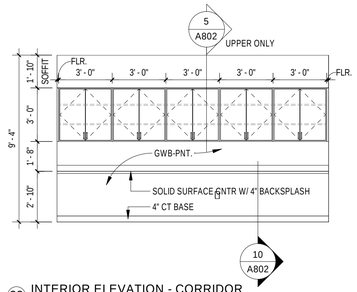
19 INTERIOR ELEVATION A - TLT. RM. 103
1/4" = 1'-0"

20 INTERIOR ELEVATION B - TLT. RM. 103
1/4" = 1'-0"

21 INTERIOR ELEVATION C - TLT. RM. 103
1/4" = 1'-0"



22 INTERIOR ELEVATION D - TLT. RM. 103
1/4" = 1'-0"



23 INTERIOR ELEVATION - CORRIDOR
1/4" = 1'-0"

24 INTERIOR ELEVATION - MULTI-PURPOSE RM.
1/4" = 1'-0"

1 ENLARGED PLAN - ADMIN.
1/4" = 1'-0"

Project:

VILLAGE OF ARDSLEY

NEW PUBLIC WORKS FACILITY

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RHINEBECK ARCHITECTURE

Seal:

REGISTERED ARCHITECT JOHN JOSEPH SARGENT STATE OF NEW YORK 022726

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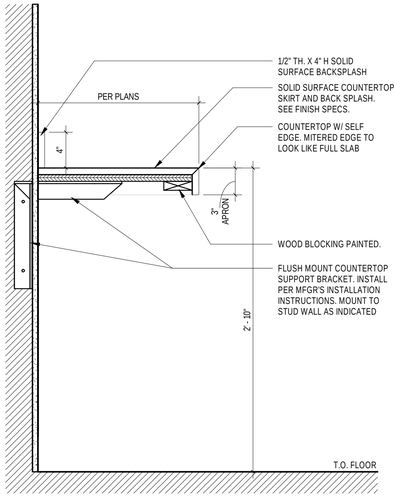
Reviewed By:	JS
Approved By:	JS/BG
W&S Project No:	N2190088

Drawing Title:

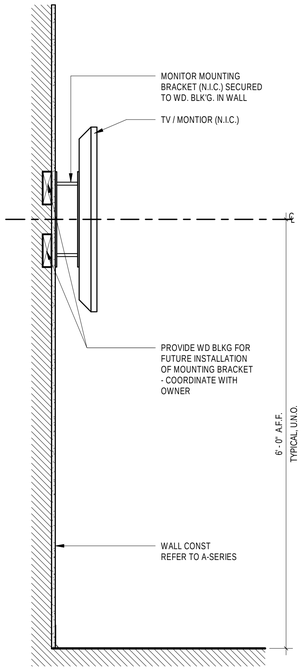
ENLARGED PLANS & INTERIOR ELEVATIONS

Sheet Number:

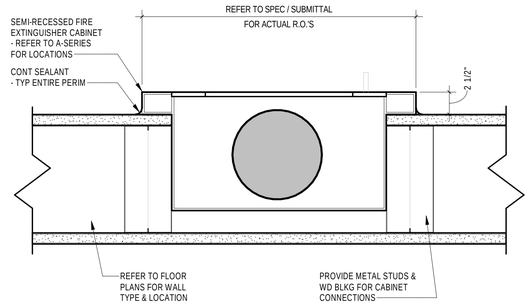
A801



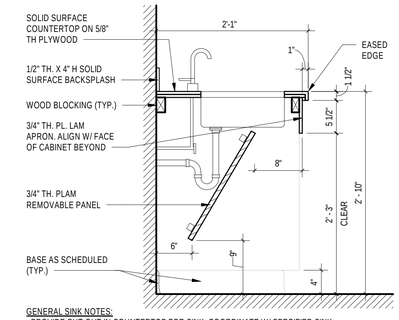
10 COUNTERTOP DETAIL
1 1/2" = 1'-0"



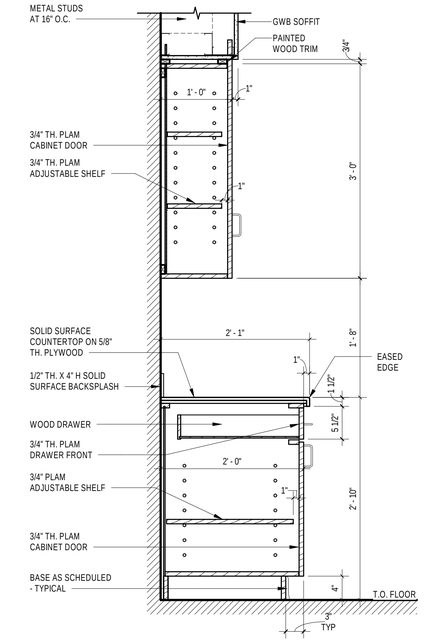
9 WALL-MOUNTED MONITOR BLOCKING
1" = 1'-0"



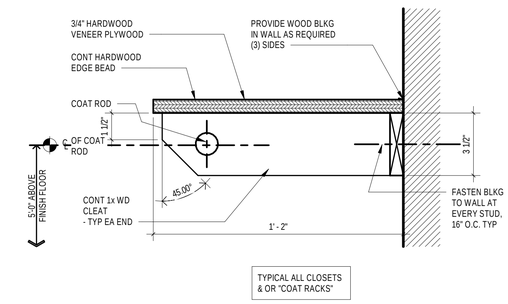
8 TYPICAL SEMI-RECESSED FIRE EXTINGUISHER CABINET
3" = 1'-0"



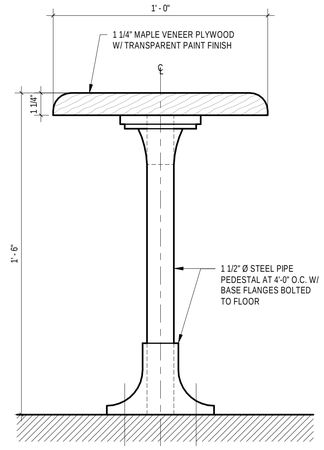
6 ADA SINK BASE CABINET
1" = 1'-0"



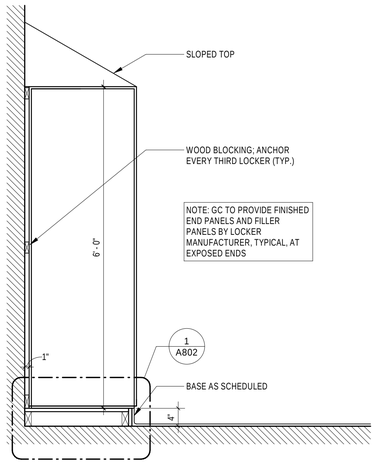
5 ADA BASE / WALL CABINET DETAIL
1" = 1'-0"



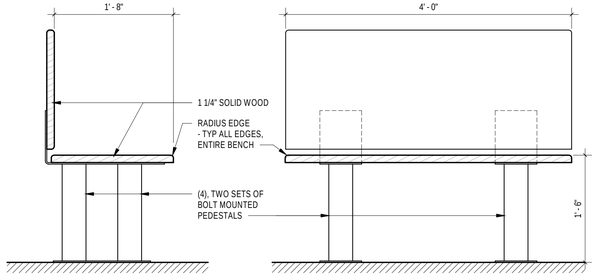
11 CLOSET SHELVING W/ RODD
3" = 1'-0"



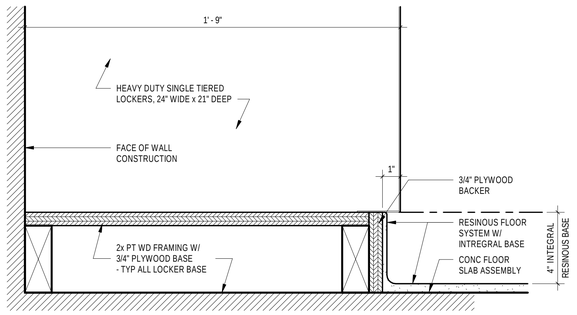
4 LOCKER ROOM BENCH DETAIL - 12" WIDE
3" = 1'-0"



2 LOCKER SECTION
3/4" = 1'-0"



3 LOCKER ROOM ACCESSIBLE BENCH DETAIL
1" = 1'-0"



1 LOCKER BASE DETAIL
3" = 1'-0"

Project:
VILLAGE OF ARDSLEY
NEW PUBLIC WORKS FACILITY
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RHINEBECK ARCHITECTURE

Seal:
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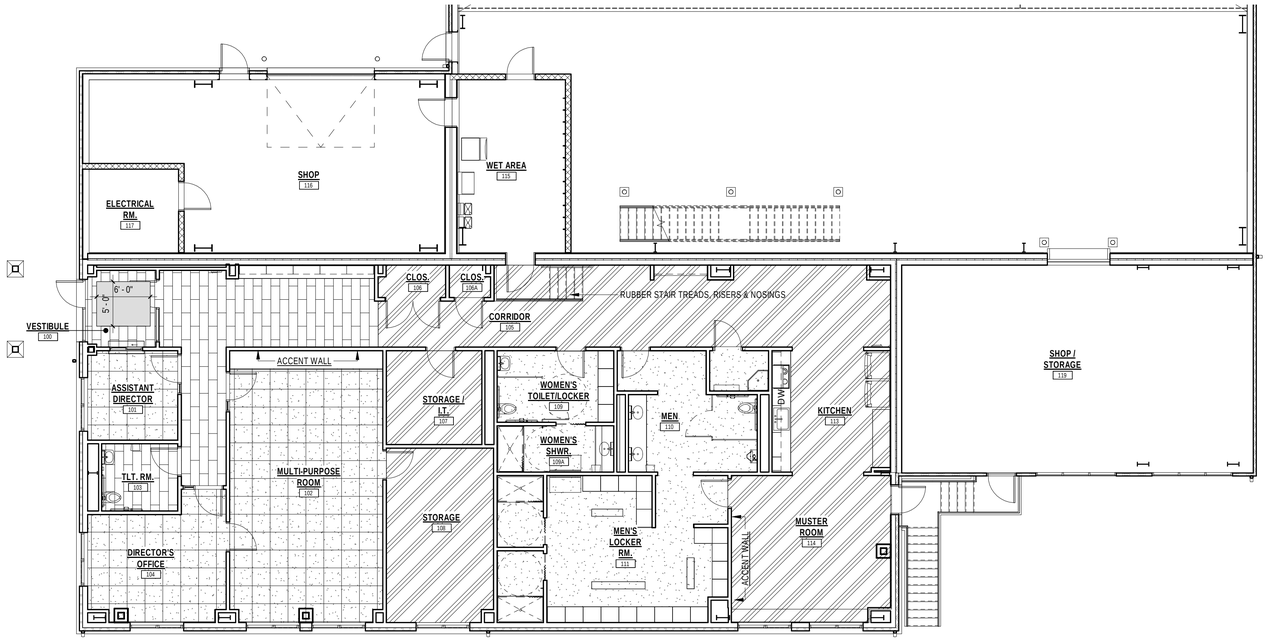
Drawing Title:

CASEWORK DETAILS

Sheet Number:

A802



3 LARGE SCALE ADMIN FINISH PLAN
1/8" = 1'-0"

FINISH NOTES

1. FINISH PLANS ARE TO BE READ IN CONJUNCTION WITH THE FINISH SCHEDULE. SHOULD THERE BE ANY DISCREPANCY BETWEEN INFORMATION GIVEN ON THE FINISH/COLOR SCHEDULE AND ANY OTHER DRAWINGS OR SPECIFICATIONS, PROVIDE THE HIGHER QUALITY FINISH.

2. REFER TO REFLECTED CEILING PLANS FOR CEILING TYPES AND HEIGHTS.

3. REFER TO THE FINISH LEGEND AND FINISH FLOOR PLANS FOR DEFINITION, PATTERNS AND EXTENT OF COLORS USED.

4. IN AREAS DESIGNATED WITH NEW CONCRETE FLOORS, PAINT MASONRY WALLS DOWN TO THE FLOOR WHERE NO RUBBER BASE IS PROVIDED. WHERE NO SUSPENDED CEILING IS INSTALLED, WALLS ARE TO BE PAINTED UP TO DECK.

5. PROVIDE THE INTERIOR OF ALL SPACES DESIGNATED "CLOSET" WITH ROD AND SHELF, UNLESS OTHERWISE DESIGNATED TO RECEIVE ADJUSTABLE SHELVES ON STANDARDS SPANNING THE WIDTH OF THE CLOSET.

6. ALL NEW GYPSUM BOARD SOFFITS AND CEILING SHOWN ON REFLECTED CEILING PLANS TO BE PAINTED. REFER TO FINISH NOTES FOR COLOR DESIGNATIONS.

7. ALL NEW HOLLOW METAL FRAMES TO BE PAINTED.

8. ALL NEW STAIR STRINGERS AND RAILINGS TO BE PAINTED.

9. AT ALL WALLS DESIGNATED TO RECEIVE TILED FINISH, TILE BACKING PANELS SHALL BE INSTALLED BEHIND ALL TILED AREAS.

10. ALL EXPOSED TO VIEW CONCRETE ON VERTICAL SURFACES TO RECEIVE SMOOTH FORMED FINISH, CLASS "A".

11. INSTALL VINYL TRANSITION STRIPS AT ALL FLOOR FINISH TRANSITIONS.

ROOM FINISH LEGEND:

CT	CERAMIC TILE - 12x24 FLOOR TILE	
CPT	CARPET TILE - 18x18	
RF	RESINOUS FLOORING	
MAT	RECESSED ALUM. ENTRY GRILLE	
RT	RUBBER TILE	
SC	SEALED CONCRETE	

ABBREVIATIONS:

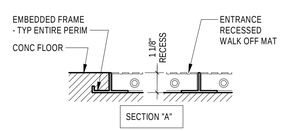
CMU:	CONCRETE MASONRY UNIT	RF:	RESINOUS FLOORING
CONC:	CONCRETE	RFB:	RESINOUS FLOORING BASE
CT:	CERAMIC TILE	RB:	RUBBER BASE
CTB:	CERAMIC TILE BASE	A1:	2'x2' SUSPENDED ACOUSTICAL PANEL
GWB:	GYPSUM WALL BOARD	A2:	2'x2' SUSPENDED ACOUSTICAL PANEL - MOISTURE RESISTANT
OTS:	OPEN TO STRUCTURE	G1:	GYPSUM BOARD CEILING
PNT:	PAINT	G2:	GYPSUM BOARD CEILING - MOISTURE RESISTANT
CPT:	CARPET TILE	G3:	2-HR FIR RATED CEILING - UL DESIGN NO. U415
ACT:	ACOUSTIC CEILING TILE SYSTEM		
PVC:	POLY VINYL CHLORIDE		

NOTES:

1. PAINT EXPOSED STEEL - FRAMES, GIRTS, BEAMS AND COLUMNS.
2. PAINT EXPOSED DECK AT UNDERSIDE OF MEZZANINE.
3. PAINT EXPOSED DUCTWORK AND ELECTRICAL CONDUIT LOCATED ON WALLS SCHEDULED TO BE PAINTED ONLY.
4. PAINT ALL EXPOSED CONCRETE KNEE WALLS.
5. PAINT GUARD AND HAND RAILS.
6. ALL EXPOSED TO VIEW CONCRETE ON VERTICAL SURFACES TO RECEIVE SMOOTH FORMED FINISH, CLASS "A"

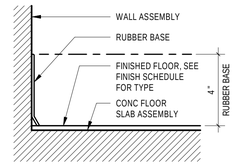
ROOM FINISH SCHEDULE

ROOM		FLOOR			WALLS		CEILING				
#	NAME	MAT	FINISH	BASE	MAT	FINISH	MAT	FINISH	HEIGHT	TYPE	REMARKS
001	STORAGE	CONC.	SC	-	CONC.	PAINT	-	-	-	-	
100	VESTIBULE	CONC.	CT	CT	GWB	PAINT	GWB	PAINT	9'-4"	G-1	OPEN TO STRUCTURE - ALT #3
101	ASSISTANT DIRECTOR	CONC.	CPT	RB	GWB	PAINT	ACT	-	9'-4"	A-1	RECESSED MAT - SEE DETAIL #4
102	MULTI-PURPOSE ROOM	CONC.	CPT	RB	GWB	PAINT	ACT	-	9'-4"	A-1	
103	TLT. RM.	CONC.	CT	CTB	GWB	PAINT	GWB	PAINT	8'-0"	G-2	
104	DIRECTOR'S OFFICE	CONC.	CPT	RB	GWB	PAINT	ACT	-	9'-4"	A-1	
105	CORRIDOR	CONC.	CT/RT	CTB/RB	GWB	PAINT	ACT/GWB	PAINT	10'-6"	A-1/G-1	CLG. HT. VARIES - SEE RCP A205
106	CLOS.	CONC.	RT	RB	GWB	PAINT	ACT	-	9'-4"	A-1	
106A	CLOS.	CONC.	RT	RB	GWB	PAINT	ACT	-	9'-4"	A-1	
107	STORAGE / I.T.	CONC.	RT	RB	GWB	PAINT	ACT	-	9'-4"	A-1	
108	STORAGE	CONC.	RT	RB	GWB	PAINT	ACT	-	9'-4"	A-1	
109	WOMEN'S TOILET/LOCKER	CONC.	RF	RFB	GWB	PAINT	ACT		9'-4"	A-1	
109A	WOMEN'S SHWR.	CONC.	RF	RFB	GWB	PAINT	GWB	-	8'-0"	G-2	
110	MEN	CONC.	RF	RFB	GWB	PAINT	ACT		9'-4"	A-2	
111	MEN'S LOCKER RM.	CONC.	RF	RFB	GWB	PAINT	ACT/GWB	PAINT	9'-4"	A-2/G-2	SHOWER CLG. HT 8'-0"
112	JAN.	CONC.	RF	RFB	GWB	PAINT	GWB	PAINT	8'-0"	G-2	
113	KITCHEN	CONC.	RT	RB	GWB	PAINT	ACT		9'-4"	A-1	
114	MUSTER ROOM	CONC.	RT	RB	GWB	PAINT	ACT		9'-4"	A-1	
115	WET AREA	CONC.	SC	RB	CMU/GWB	PAINT	GWB	PAINT	10'-0"	G-2	
116	SHOP	CONC.	SC	-	CMU/GWB	PAINT	-	-	-	-	
117	ELECTRICAL RM.	CONC.	SC	RB	CMU/GWB	PAINT	GWB	PAINT	10'-0"	G-1	
118	VEHICLE STORAGE	CONC.	SC	-	CMU/GWB	PAINT	-	-	-	-	
118A	WATER ROOM	CONC.	SC	RB	CMU/GWB	PAINT	GWB	PAINT	10'-0"	G-1	
119	SHOP / STORAGE	CONC.	SC	-	CMU/GWB	PAINT	-	-	-	-	OPEN TO STRUCTURE - ALT #3
120	VEHICLE MAINTENANCE	CONC.	SC	-	CMU/GWB	PAINT	-	-	-	-	
121	MECH. OFFICE	CONC.	SC	RB	CMU/GWB	PAINT	ACT	-	9'-0"	A-1	
122	PARTS STORAGE	CONC.	SC	-	CMU	PAINT	-	-	-	-	
123	TLT. RM	CONC.	RF	RFB	CMU	PAINT	GWB	PAINT	8'-0"	G-2	
124	FLUIDS	CONC.	SC	RB	CMU	PAINT	GWB	PAINT	9'-4"	G-2	
125	WASHBAY EQUIP.	CONC.	SC	-	CMU	PAINT	-	-	-	-	
126	WASHBAY	CONC.	SC	SC 6" HIGH	PVC	-	PVC	-	-	-	
200	MEZZ 1	CONC.	SC	-	-	-	-	-	-	-	
200A	COMPRESSOR ROOM	CONC.	SC	RB	GWB	PAINT	GWB	PAINT	10'-0"	G-1	
201	MEZZ 2	CONC.	SC	-	-	-	-		-	-	
202	MEZZ 2A	CONC.	SC	-	-	-	-		-	-	

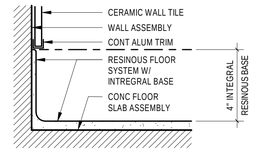


· COORDINATE RECESS IN CONCRETE SLAB W/ APPROVED PRODUCT

4 RECESSED WALK OFF MAT DETAIL
3" = 1'-0"



2 RUBBER BASE DETAIL (RB)
3" = 1'-0"



1 RESINOUS BASE DETAIL (RFB)
3" = 1'-0"

Project:

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RHINEBECK ARCHITECTURE

Seal:

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Revisions:

Rev	Date	Description

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PROJECT TRUE

SCALE: AS NOTED

Date: 4/7/22

Drawn By: BG

Reviewed By: JS

Approved By: JS/BG

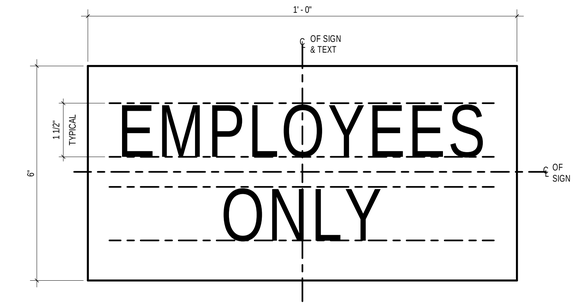
W&S Project No: N2190088

Drawing Title:

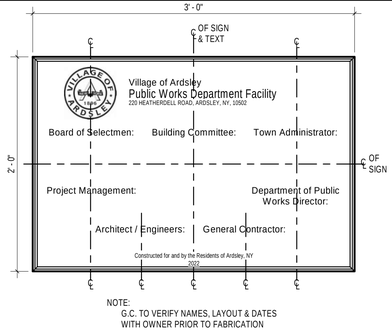
FLOOR FINISH PLAN & SCHEDULE

Sheet Number:

A901

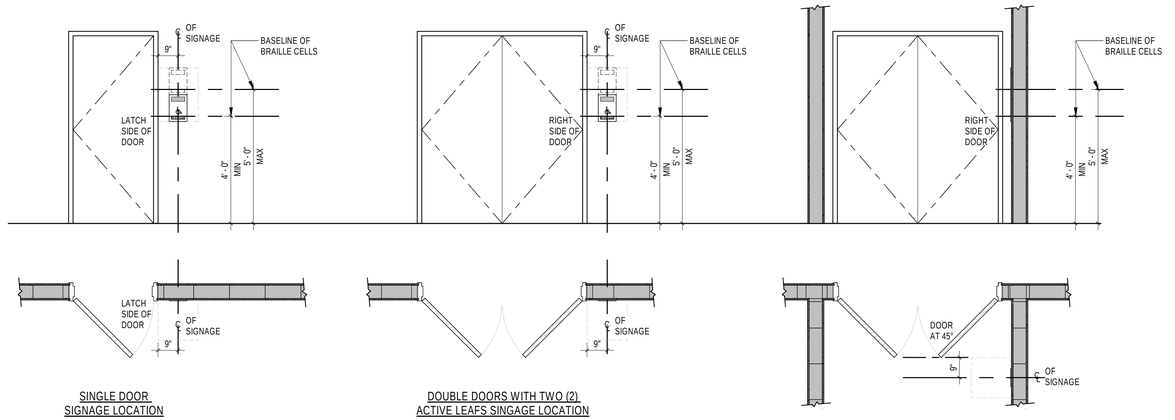


1 SIGN TYPE A
6" = 1'-0"



NOTE:
G.C. TO VERIFY NAMES, LAYOUT & DATES WITH OWNER PRIOR TO FABRICATION

2 DEDICATION PLAQUE - SIGN TYPE B
1 1/2" = 1'-0"



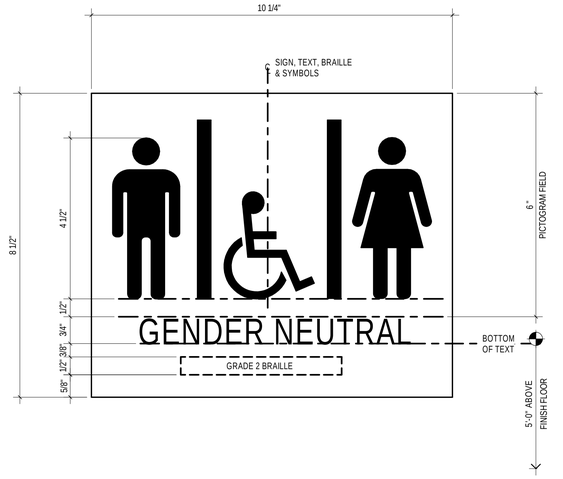
SINGLE DOOR SIGNAGE LOCATION

DOUBLE DOORS WITH TWO (2) ACTIVE LEAFS SINGAGE LOCATION

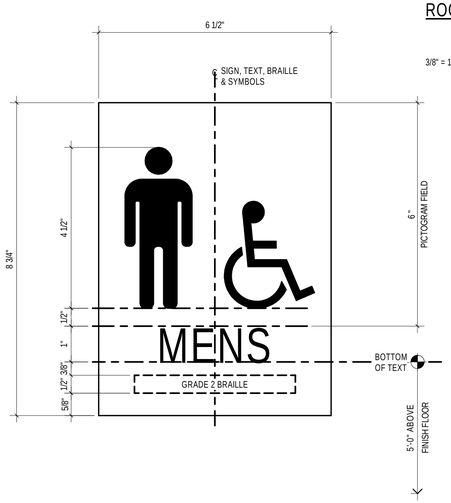
DOUBLE DOORS WITH TWO (2) ACTIVE LEAFS WITHOUT ADJACENT WALL SPACE SIGNAGE LOCATION

ROOM SIGNAGE MOUNTING LOCATIONS

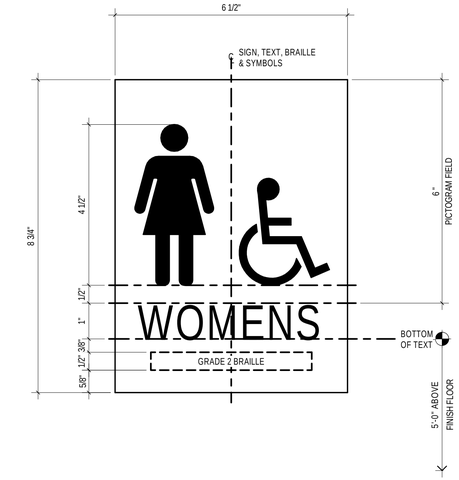
3/8" = 1'-0"



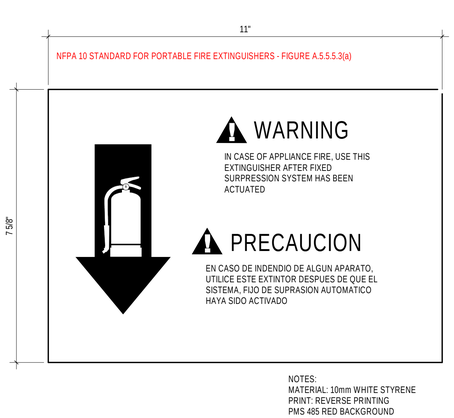
3 SIGN TYPE C
6" = 1'-0"



4 SIGN TYPE D
6" = 1'-0"

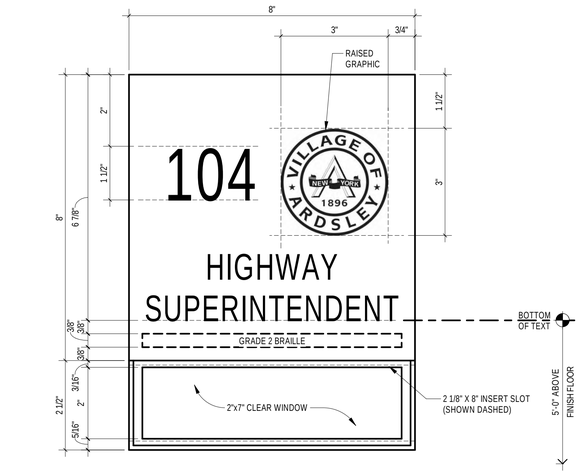


5 SIGN TYPE E
6" = 1'-0"

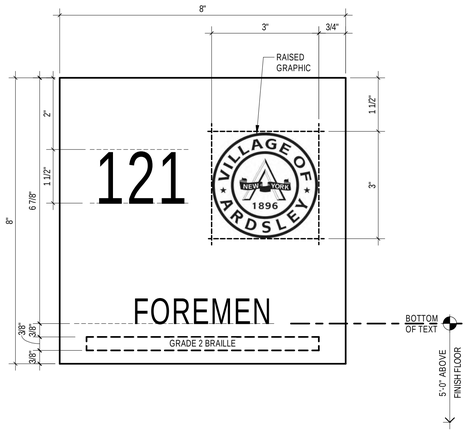


NOTES:
MATERIAL: 10mm WHITE STYRENE
PRINT: REVERSE PRINTING
PMS 485 RED BACKGROUND
WHITE PRINT
14.3mm LETTERS FOR "WARNING"
6.4mm LETTERS FOR "WARNING NOTE"
RADIUS CORNERS

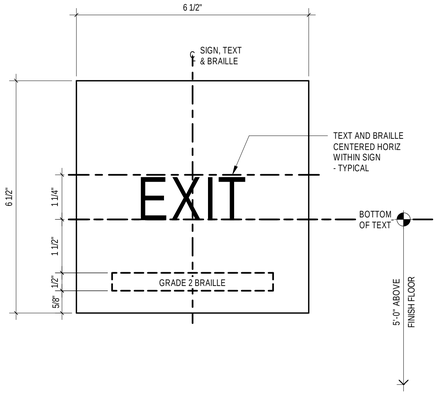
6 SIGN TYPE F
6" = 1'-0"



7 SIGN TYPE G
6" = 1'-0"



8 SIGN TYPE H
6" = 1'-0"



9 SIGN TYPE I
6" = 1'-0"

SIGNAGE SCHEDULE

ROOM #	ROOM NAME	SIGN TYPE	QUANTITY
001	STORAGE	H	1
100	VESTIBULE	B,I	1,1
101	ASSISTANT DIRECTOR	G	-
102	MULTI-PURPOSE ROOM	H	2
103	TLT. RM.	C	1
104	DIRECTOR'S OFFICE	G	-
105	CORRIDOR	A	1
106	CLOS.	H	1
106A	CLOS.	H	1
107	STORAGE / I.T.	H	1
108	STORAGE	H	1
109	WOMEN'S TOILET/LOCKER	E	1
109A	WOMEN'S SHWR.	-	-
110	MEN	D	1
111	MEN'S LOCKER RM.	-	-
112	JAN.	H	-
113	KITCHEN	H,F	1,1
114	MUSTER ROOM	H,A	1,1
115	WET AREA	H	2
116	SHOP	H,A	1,1
117	ELECTRICAL RM.	H	1
118	VEHICLE STORAGE	H,A	2,1
118A	WATER ROOM	H	1
119	SHOP / STORAGE	H	1
120	VEHICLE MAINTENANCE	H,A	2,1
121	MECH. OFFICE	G	1
122	PARTS STORAGE	H	1
123	TLT. RM	C	1
124	FLUIDS	H	1
125	WASHBAY EQUIP.	H	1
126	WASHBAY	H,A	1,1
200	MEZZ 1	H	-
200A	COMPRESSOR ROOM	H	-
201	MEZZ 2	H	-
202	MEZZ 2A	H	-

NOTE: SEE DWG. A610 FOR CONSTRUCTION SIGN

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RHINEBECK ARCHITECTURE

Seal:

REGISTERED ARCHITECT JOHN JOSEPH MARCH 022726 STATE OF NEW YORK

Revisions:

Rev	Date	Description

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PROJECT TRUE

SCALE: AS NOTED

Date: 4/7/22
Drawn By: BG
Reviewed By: JS
Approved By: JS/BG

W&S Project No: N2190088

Drawing Title:

SIGN TYPES

Sheet Number:

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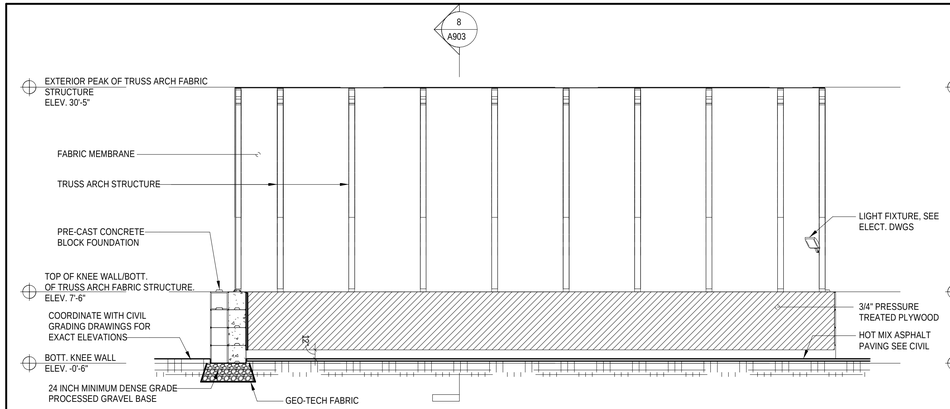
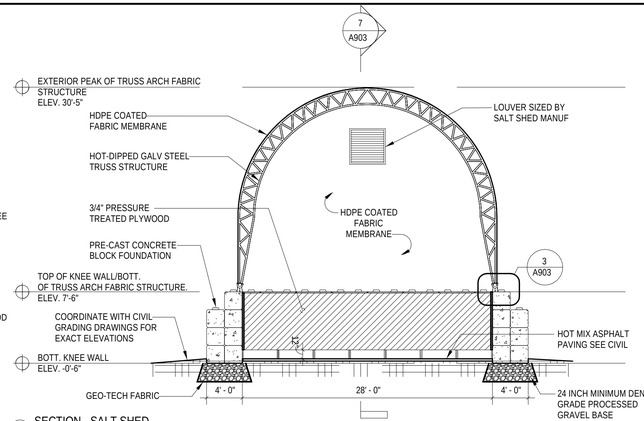
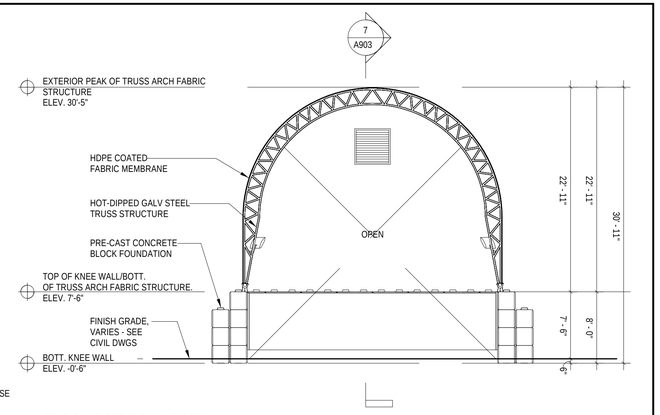


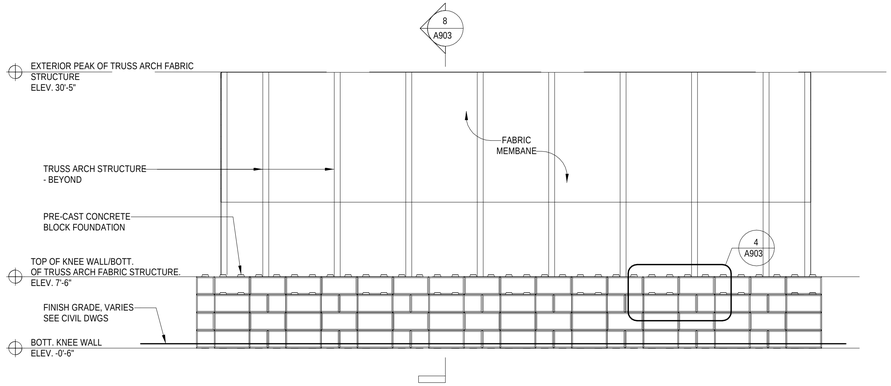
7 SECTION - SALT SHED
1/8" = 1'-0"



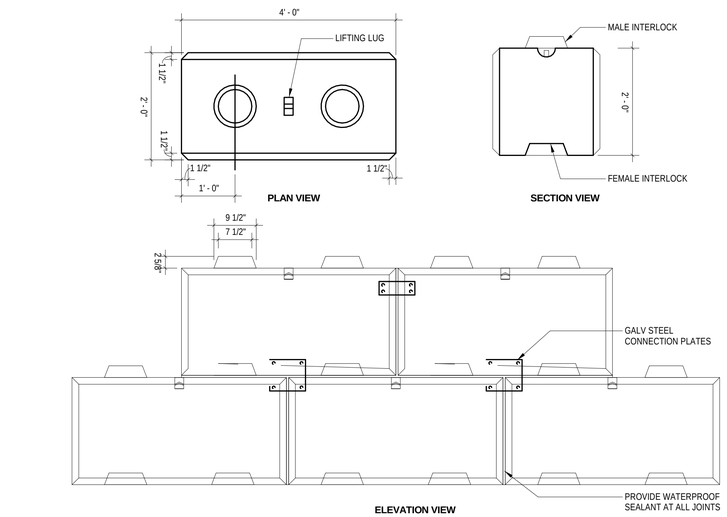
8 SECTION - SALT SHED
1/8" = 1'-0"



5 SALT SHED ELEVATION - FRONT
1/8" = 1'-0"



6 SALT SHEAD ELEVATION - SIDE
1/8" = 1'-0"



NOTES:
1. BLOCKS SHALL HAVE BEVELED EDGES FOR A MORE AESTHETIC LOOK AND TO REDUCE CORNER BREAKAGE.
2. BLOCK SHALL BE INTERLOCKING WITH MALE AND FEMALE TOPS AND BOTTOMS.
3. BLOCKS MUST BE ABLE TO WITHSTAND ALL TYPES OF WEATHER CONDITIONS AND BE IMMEDIATELY EFFECTIVE UPON PLACEMENT.
4. BLOCKS SHALL BE AVAILABLE WITH A FLAT TOP WITHOUT MALE PROTRUSIONS ON THE TOP.
5. BLOCKS TO BE DESIGNED AND MANUFACTURED TO INSURE "SELF-LEVELING" AND "SELF-CENTERING" INSTALLATION.
6. EACH BLOCK SHALL HAVE BUILT-IN LIFTING LUG FOR EASY LOADING, UNLOADING AND INSTALLATION.
7. BLOCKS TO BE READILY ASSEMBLED AND MUST BE STACKABLE TO HEIGHTS OF 8 FEET OR HIGHER.
8. BLOCKS TO HAVE COMPRESSIVE STRENGTH OF 4,000 PSI.
9. BLOCKS SHALL BE IMPERVIOUS TO FLAMES.
10. WEIGHT FOR 2'x2'x4' BLOCK SHALL NOT EXCEED 1,900 LBS AND
11. BLOCKS SHALL HAVE OPTIONAL CAPABILITY OF RECEIVING INTERNAL STEEL REINFORCEMENT BARS.

4 CONC. BLOCK DETAILING
3/4" = 1'-0"

GENERAL SALT SHED NOTES:

1. COLUMN LINE SPACING SHOWN FOR NEW TRUSS ARCH FRAMING IS DIAGRAMMATIC ONLY. CONTRACTOR IS RESPONSIBLE FOR DESIGNING THE STRUCTURE TO MEET ALL CURRENT CODES. FINAL QUANTITY OF TRUSS ARCH FRAMES AND COLUMN LINE SPACING SHALL BE DETERMINED BY THE SALT SHED MANUFACTURER. FINAL COLUMN LINE LOCATIONS ARE SUBJECT TO ENGINEER REVIEW. THE ADDITION OR DELETION OF TRUSS ARCH FRAMES BASED ON THE FINAL DESIGN BY THE BUILDING MANUFACTURER SHALL NOT BE CAUSE FOR A CHANGE IN THE CONTRACT PRICE.

2. CONTRACTOR SHALL SUBMIT DETAILED DESIGN DRAWINGS FOR THE MEMBRANE COVERED FRAME STRUCTURE AND THE PRE-CAST CONCRETE BLOCK WALLS STAMPED BY A LICENSED MASSACHUSETTS STRUCTURAL ENGINEER.

3. THE QUANTITY, SIZE, AND LOCATION OF THE PRE-CAST CONCRETE BLOCK WALLS FOR THE FOUNDATION OF THE MEMBRANE COVERED FRAME STRUCTURE SHALL BE DETERMINED BY THE BUILDING MANUFACTURER IN ACCORDANCE WITH GENERAL SALT SHED NOTE 2. THE PRE-CAST CONCRETE BLOCK LAYOUT SHOWN ON THE PLANS IS DIAGRAMMATIC ONLY. THE ADDITION OR DELETION OF THE PRE-CAST CONCRETE BLOCKS AND BUTTRESSES AS REQUIRED BY THE FINAL DESIGN OF THE BUILDING BY THE BUILDING MANUFACTURER'S LICENSED STRUCTURAL ENGINEER SHALL NOT BE CAUSE FOR A CHANGE IN THE CONTRACT PRICE.

4. THE FOUNDATION OPTION SHOWN ON THE PLANS CONSISTS OF PRE-CAST CONCRETE BLOCK FOUNDATION WALL. BLOCK WALLS SHALL BE SET ON A BED OF DENSE GRADED PROCESSED GRAVEL (MINIMUM 24" THICK EXTENDING A MINIMUM OF 2' ON EACH SIDE OF BLOCKS). THE QUANTITY, SIZE, LOCATION, AND BUTTRESS CONFIGURATION SHALL BE DETERMINED BY THE BUILDING MANUFACTURER. ALTERNATE FOUNDATION DESIGNS WILL BE FOUNDATION SYSTEM AS REQUIRED TO MEET CURRENT CODES SHALL COME AT NO ADDITIONAL COST TO THE OWNER.

5. THE PT PLYWOOD PROTECTION WALL (INSIDE FACE OF SIDE AND BACK WALLS) SHALL CONSIST OF 3/4" PT PLYWOOD MOUNTED TO PT 2X4 AT 16" O.C. INSTALLED VERTICALLY FASTENED TO THE CONCRETE BLOCKS WITH NON- CORROSIVE FASTENERS (STAINLESS STEEL). PLYWOOD SHALL STOP 12" FROM THE FLOOR TO ALLOW SALT TO FALL OUT FROM BEHIND WALL.

NOTES:
1. LOCATION AND NUMBER OF TIE DOWN STRAPS TO BE DETERMINED BY THE BUILDING MANUFACTURER.
2. TIE DOWN STRIP SHOWN MAY VARY DEPENDING ON APPROVED BUILDING MANUFACTURER.
3. PROVIDE SPECIALTY TIE DOWN ASSEMBLY AT INTERFACE WITH EXISTING BUILDING AS RECOMMENDED BY BUILDING MANUFACTURER

3 FABRIC TRUSS BASE PLATE
1" = 1'-0"

NOTES:

1. PROVIDE TYPICAL FABRIC TIE DOWN DETAIL AT BASE OF MEMBRANE ENVELOPE TO PROVIDE WEATHER TIGHT SALT SHED BUILDING.

2. CONTRACTOR TO PROVIDE SUBBASE INSIDE OF SALT SHED BUILDING.SUBBASE SHALL CONSIST OF 4" DENSE GRADED STONE OVER 8" GRAVEL BORROW TYPE B. ALL ADDITIONAL FILL BELOW THIS SUBBASE SHALL CONSIST OF GRAVEL BORROW PER SPECIFICATION SECITON "31 66 13, GROUND IMPROVEMENTS".

3. CONTRACTOR SHALL PROVIDE FILL AS NECESSARY TO BRING THE SITE UP TO FINISH GRADE. COORDINATE WITH CIVIL DRAWINGS.

4. REFER TO CIVIL DRAWINGS FOR FINISH GRADE. ELEVATION 0'-0" IS EQUIVALENT TO FINISH GRADE SHOWN ON CIVIL DRAWINGS.

5. BUTTRESS SIZES AND LOCATIONS ARE SHOWN DIAGRAMMATICALLY ONLY. SALT SHED MANUF SHALL DESIGN WALL TO SUPPORT BUILDING & TO RESIST LOADS FROM SALT STOCKPILE IN SALT SHED. CONTRACTOR SHALL PROVIDE ADDITIONAL BUTTRESSES OR ALTERNATE FOUNDATION IN ACCORDANCE WITH STAMPED DRAWING FROM THE BUILDING MANUF AT NO ADDITIONAL COST TO THE OWNER.

1 FLOOR PLAN - SALT SHED
1/8" = 1'-0"

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RHINEBECK ARCHITECTURE

Seal:

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PROJECT TRUE

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Reviewed By:	JS
Approved By:	JS/BG
W&S Project No:	N2190088

Drawing Title:

SALT SHED

Sheet Number:

A903

1.0 - GENERAL

1.01 THE STRUCTURAL DRAWINGS SHALL BE USED IN CONJUNCTION WITH ALL OTHER CONTRACT DRAWINGS AND SPECIFICATIONS. REFER TO CIVIL, ARCHITECTURAL, MECHANICAL, PLUMBING, AND ELECTRICAL DRAWINGS FOR LOCATION, DIMENSIONS, AND DETAILS OF OPENINGS, SLEEVES, EMBEDMENTS, INSERTS, PADS, CURBS, DEPRESSIONS, ANCHOR BOLTS, AND OTHER PROJECT REQUIREMENTS NOT SHOWN ON STRUCTURAL DRAWINGS.

1.02 THE CONTRACTOR IS RESPONSIBLE FOR CHECKING, COORDINATING AND VERIFYING ALL DIMENSIONS IN THE FIELD PRIOR TO COMMENCING WORK. THE CONTRACTOR SHALL IMMEDIATELY REPORT ANY DISCREPANCY TO THE ARCHITECT AND ENGINEER AS A REQUEST FOR INFORMATION (RFI) BEFORE PROCEEDING WITH WORK.

1.03 THE CONTRACTOR IS RESPONSIBLE FOR VERIFYING IN THE FIELD THE EXISTENCE AND LOCATION OF OVERHEAD, BURIED AND/OR EMBEDDED UTILITIES, AND DETERMINING LOCATIONS OF ALL EMBEDDED MECHANICAL, ELECTRICAL AND PLUMBING SYSTEMS AFFECTED BY THE WORK OF THIS CONTRACT.

1.04 ALL WORK IS TO CONFORM WITH THE FOLLOWING CODES AND STANDARDS:

(A) "UNIFORM FIRE PREVENTION AND BUILDING CODE - NEW YORK STATE" (UNIFORM CODE)
(B) "STATE ENERGY CONSERVATION CONSTRUCTION CODE" (ENERGY CODE)
(C) INTERNATIONAL BUILDING CODE, (IBC 2018)
(D) "BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE" - AMERICAN CONCRETE INSTITUTE (ACI 318)
(E) "MANUAL OF STEEL CONSTRUCTION" - AMERICAN INSTITUTE OF STEEL CONSTRUCTION (AISC 360)
(F) "STRUCTURAL WELDING CODE - STEEL" - AMERICAN WELDING SOCIETY (AWS D1.1)
(G) "SEISMIC PROVISION FOR STRUCTURAL STEEL BUILDINGS" -AMERICAN INSTITUTE OF STEEL CONSTRUCTION, (AISC)
(H) "MINIMUM DESIGN LOADS FOR BUILDINGS AND OTHER STRUCTURES" - AMERICAN SOCIETY OF CIVIL ENGINEERS, (ASCE 7-16)

FOR ADDITIONAL CODES AND STANDARDS REFER TO SPECIFICATIONS.

1.05 THE CONTRACTOR SHALL NOTIFY THE ARCHITECT AND ENGINEER OF UNFORESEEN CONDITIONS THAT MAY BE UNCOVERED DURING DEMOLITION AND CONSTRUCTION AS A REQUEST FOR INFORMATION (RFI) BEFORE PROCEEDING WITH WORK.

1.06 PERMANENT STRUCTURAL ELEMENTS TO BE DESIGNED IN ACCORDANCE WITH PERFORMANCE SPECIFICATIONS INCLUDE, BUT ARE NOT LIMITED TO, THE FOLLOWING:

(A) PRE-ENGINEERED METAL BUILDING
(B) MISC. ARCH COMPONENT SEISMIC SUPPORTS
(C) MISC. MECHANICAL AND ELECTRICAL COMPONENT AND SYSTEM SEISMIC SUPPORTS
(D) LIGHT GAUGE COLD FORMED STEEL FRAMING

FOR PERFORMANCE DESIGN REQUIREMENTS OF ELEMENTS LISTED ABOVE, REFER TO ADDITIONAL NOTES ON THESE SHEETS AND IN THE TECHNICAL SPECIFICATIONS. ALL DESIGN SUBMITTAL DRAWINGS AND CALCULATIONS SHALL BE CERTIFIED, SIGNED AND SEALED BY A PROFESSIONAL STRUCTURAL ENGINEER REGISTERED IN THE STATE OF NEW YORK.

1.07 STRUCTURAL REQUIREMENTS TO ACCOMMODATE FIXED EQUIPMENT, INCLUDING BUT NOT LIMITED TO ROOF TOP UNITS ARE INCIDENTAL TO THE REQUIREMENTS OF A SPECIFIC EQUIPMENT MANUFACTURER. ALL WORK SHALL CONFORM TO APPROVED EQUIPMENT MANUFACTURER'S SHOP DRAWINGS AND INSTALLATION INSTRUCTIONS. THE CONTRACTOR SHALL SUBMIT TO THE ENGINEER FOR APPROVAL ANY REQUIRED MODIFICATIONS TO ACCOMMODATE APPROVED EQUIPMENT DRAWINGS. SUCH MODIFICATIONS SHALL BE MADE AT NO COST TO THE OWNER.

1.08 DETAILS AND NOTES SHOWN ON STRUCTURAL DRAWINGS SHALL BE APPLICABLE TO ALL PARTS OF THE STRUCTURAL WORK EXCEPT WHERE SPECIFICALLY REQUIRED OTHERWISE BY CONTRACT DOCUMENTS. CONDITIONS NOT SPECIFICALLY SHOWN SHALL BE SIMILAR TO THOSE SHOWN FOR LIKE CONDITIONS AS DETERMINED BY THE ENGINEER.

1.09 IN ACCORDANCE WITH SPECIFICATION SECTION 01 45 23, TESTING AND INSPECTION OF STRUCTURAL WORK SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. THE COSTS FOR TESTING AND INSPECTIONS WILL BE PAID BY THE CONTRACTOR. PROVIDE TEST RESULTS TO THE ENGINEER IN A TIMELY MANNER.

1.10 THE CONTRACTOR SHALL DESIGN AND PROVIDE ALL REQUIRED SHORING AND TEMPORARY BRACING TO RESIST FORCES ON THE STRUCTURE THROUGHOUT THE CONSTRUCTION PERIOD.

2.0 - FOUNDATIONS

2.01 THE SUBSURFACE CONDITIONS DESCRIBED IN THE DRAWINGS, SPECIFICATIONS, TEST BORINGS AND TEST PITS ARE INCLUDED ONLY TO ASSIST THE CONTRACTOR DURING BIDDING AND SUBSEQUENT CONSTRUCTION AND REPRESENT CONDITIONS ONLY AT THESE SPECIFIC LOCATIONS AT THE TIME THEY ARE MADE.

2.02 THE CONTRACTOR SHALL DESIGN AND PROVIDE ALL TEMPORARY EARTH SUPPORT, SHORING AND BRACING REQUIRED TO PERFORM THE WORK IN ACCORDANCE WITH OSHA, STATE AND LOCAL REQUIREMENTS.

2.03 THE CONTRACTOR SHALL DESIGN AND PROVIDE SHEETING, SHORING, BRACING, AND/OR UNDERPINNING IN ORDER TO PROTECT EXISTING UTILITIES FROM EXCESSIVE MOVEMENTS DURING THE CONSTRUCTION PERIOD, IN ACCORDANCE WITH OSHA, STATE & LOCAL REQUIREMENTS.

2.04 THE CONTRACTOR SHALL CARRY OUT CONTINUOUS CONTROL OF SURFACE AND SUBSURFACE WATER. DEWATER ANY AREAS REQUIRING EXCAVATION IN ADVANCE OF PERFORMING EXCAVATION. MAINTAIN GROUNDWATER LEVELS AT LEAST 2 FEET BELOW PLANNED SUBGRADES.

2.05 ALL SUBGRADES TO RECEIVE FILL MATERIALS, FOUNDATIONS, SLABS OR OTHER CONSTRUCTION SHALL BE FREE OF RUNNING OR STANDING WATER PRIOR TO PLACEMENT.

2.06 SPREAD FOOTINGS AND PIERS AS SHOWN ARE DESIGNED FOR ESTIMATED METAL BUILDING REACTIONS AND ARE APPROXIMATE IN SIZE. THESE ELEMENTS ARE SUBJECT TO CHANGE IN DIMENSION (IF REQUIRED) WITH THE APPROVED METAL BUILDING SUBMITTAL. ANY CHANGES SHALL COME AT NO ADDITIONAL COST TO THE OWNER.

2.07 FOUNDATIONS SHALL BE INSTALLED IN THE GEOMETRY SHOWN IN THE PLANS, ANY ROCK ENCOUNTERED DURING EXCAVATION SHALL BE REMOVED TO CLEAR THE REQUIRED FOUNDATION GEOMETRY.

2.08 SPREAD FOOTING BEARING SURFACES SHALL BE EXCAVATED BY EQUIPMENT WITH A SMOOTH, TOOTHLESS CUTTING EDGE.

2.09 THE GEOTECHNICAL REPORT PREPARED BY TERRACON DATED 10/02/2020 IS PROVIDED FOR INFORMATION PURPOSES ONLY.

3.0 - CAST IN PLACE CONCRETE

3.01 CONCRETE WORK SHALL CONFORM TO "BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE" (ACI 318) AND "SPECIFICATIONS FOR STRUCTURAL CONCRETE FOR BUILDINGS" (ACI 301).

3.02 CONCRETE SHALL BE CONTROLLED CONCRETE, PROPORTIONED, MIXED AND PLACED IN THE PRESENCE OF A REPRESENTATIVE OF AN APPROVED TESTING AGENCY.

3.03 UNLESS NOTED OTHERWISE, CONCRETE SHALL BE NORMAL WEIGHT AND HAVE A MINIMUM 28 DAY COMPRESSIVE STRENGTH AS FOLLOWS:

(A) FOUNDATIONS: 4000 PSI
(B) INTERIOR SLABS-ON-GRADE, KNEEWALLS, CURBS, AND EQUIPMENT PADS: 4500 PSI
(C) SUSPENDED SLABS: 4000 PSI
(D) EXTERIOR SLABS AND WALKWAYS: 5000 PSI

3.04 ALL PERMANENTLY EXPOSED VERTICAL AND HORIZONTAL CONCRETE SURFACES SHALL BE TREATED OR SEALED IN ACCORDANCE WITH PROJECT SPECIFICATIONS.

3.05 CONCRETE WORK SHALL BE COORDINATED WITH ALL METAL BUILDINGS, ARCHITECTURAL, MECHANICAL, PLUMBING, ELECTRICAL WORK, AND ALL EQUIPMENT. THE CONTRACTOR SHALL VERIFY INSTALLATION AND LOCATIONS OF ALL EMBEDDED ITEMS INCLUDING BUT NOT LIMITED TO INSERTS, ANCHOR BOLTS, DOWELS, BLOCKOUTS, SLEEVES, EMBEDDED PIPING, AND EMBEDDED CONDUIT PRIOR TO CONCRETE PLACEMENT.

3.06 FOR STRUCTURAL ELEMENTS, THE LOCATIONS AND MAXIMUM SPACING OF VERTICAL JOINTS SHALL BE AS FOLLOWS:

ELEMENT	JOINT TYPE	SPACING, FT.	LOCATIONS
FOUNDATION WALL	CONTRACTION	30	FACE OF
FOUNDATION WALL	CONSTRUCTION	60	PILASTER

3.07 FOR SLABS-ON-GRADE, LOCATE CONSTRUCTION OR CONTROL JOINTS ALONG COLUMN LINES OR AS SHOWN. PROVIDE JOINTS AT 20FT. MAX. SPACING. SUBMIT JOINT LOCATIONS AND DETAILS FOR APPROVAL.

3.08 SEALANT FOR CONTROL/CONTRACTION JOINTS AND SAW CUT JOINTS SHALL BE SIKADUR 51 MANUFACTURED BY SIKA OR AN APPROVED EQUAL.

3.09 CONCRETE EXPOSED TO WEATHER (FREEZE-THAW CONDITIONS) IN THE FINISHED PROJECT SHALL BE AIR ENTRAINED PER SPECIFICATIONS REQUIREMENTS.

3.10 A MINIMUM OF 72 HOURS SHALL ELAPSE BETWEEN ADJACENT CONCRETE PLACEMENTS.

3.11 CONCRETE SLABS SHALL BE PLACED SO THAT THE SLAB THICKNESS IS AT NO POINT LESS THAN THAT INDICATED ON THE DRAWINGS.

3.12 PROVIDE A 3/4" CHAMFER ON ALL VERTICAL AND HORIZONTAL CORNERS EXPOSED TO VIEW UNLESS NOTED OTHERWISE.

3.13 ALL CONCRETE SHALL BE WATER CURED UNLESS OTHERWISE AUTHORIZED BY THE ENGINEER.

3.14 NON-SHRINK, NON-METALLIC, GROUT SHALL HAVE A MINIMUM 28-DAY COMPRESSIVE STRENGTH OF 7,500 PSI (ASTM C942) AND A MINIMUM BOND STRENGTH OF 2,000 PSI AT 28-DAYS (ASTM C882). GROUT MAY BE EXTENDED WITH COARSE AGGREGATE PER THE MANUFACTURER'S RECOMMENDATIONS.

4.0 - CAST IN PLACE CONCRETE REINFORCEMENT

4.01 REINFORCEMENT DETAILING, FABRICATION, AND ERECTION SHALL CONFORM TO "ACI DETAILING MANUAL" - SP-66, "CRSI MANUAL OF STANDARD PRACTICE".

4.02 STEEL REINFORCEMENT, UNLESS NOTED OTHERWISE, SHALL CONFORM TO THE FOLLOWING:

(A) BARS, TIES, AND STIRRUPS___ASTM A615 GRADE 60
(B) WELDED WIRE FABRIC_____ASTM A185, FLAT SHEETS

4.03 REINFORCING STEEL SHALL BE UNCOATED AND DEFORMED.

4.04 MINIMUM CONCRETE PROTECTIVE COVERING FOR REINFORCEMENT, UNLESS REQUIRED FOR FIRE PROTECTION OR NOTED OTHERWISE, SHALL BE AS FOLLOWS:

(A) CONCRETE CAST AGAINST AND PERMANENTLY EXPOSED TO EARTH:____3"
(B) CONCRETE EXPOSED TO EARTH OR WEATHER:
  (1) NO. 6 THRU NO. 18 BARS_____2"
  (2) NO. 5 BAR, W31 OR D31 WIRE AND SMALLER____2"
(C) SURFACES NOT EXPOSED TO WEATHER OR IN CONTACT WITH GROUND:
  (1) SLABS, WALLS, JOISTS:
    (a) NO. 14 AND NO 18 BARS____2"
    (b) NO. 11 BARS AND SMALLER____2"
  (2) BEAMS, COLUMNS:
    (a) PRIMARY REINFORCEMENT____2-1/2"
    (b) TIES, STIRRUPS, SPIRALS____2"

4.05 REINFORCING STEEL SHALL BE CONTINUOUS THROUGH ALL CONSTRUCTION JOINTS, CORNERS, AND INTERSECTIONS UNLESS OTHERWISE NOTED. REINFORCING SHALL BE LAPPED AT NECESSARY SPLICES OR HOOKED AT DISCONTINUOUS ENDS, UNLESS OTHERWISE NOTED.

4.06 FOR REINFORCING STEEL SPLICE LAP LENGTHS REFER TO THE TABLE PROVIDED UNLESS OTHERWISE INDICATED.

4.07 MECHANICAL SPLICES SHALL BE PERMITTED SUBJECT TO APPROVAL BY THE ENGINEER. MECHANICAL SPLICES SHALL DEVELOP AT LEAST 125 PERCENT OF THE SPECIFIED YIELD STRENGTH OF THE BAR. NO WELDED CONNECTIONS ARE PERMITTED.

4.08 WELDED WIRE FABRIC SHALL BE LAPPED (1) SQUARE PLUS (2) INCHES WHERE REQUIRED AND SHALL BE WIRED TOGETHER AT ALL LAPS. WWF SHALL BE SUPPORTED BY CHAIRS AND/OR CARRYING BARS PRIOR TO CONCRETE PLACEMENT.

4.09 REINFORCEMENT SHALL NOT BE TACK WELDED.

4.10 NOTIFY THE TESTING LAB AND ENGINEER A MINIMUM OF 48 HOURS PRIOR TO SCHEDULED CONCRETE PLACEMENT IN ORDER TO ACCOMMODATE INSPECTION OF REINFORCEMENT AND CONCRETE TESTING. NO CONCRETE SHALL BE PLACED WITHIN 48 HOURS OF SUCH NOTIFICATION.

4.11 WHERE REINFORCEMENT IS NOT SHOWN ON DRAWINGS, PROVIDE REINFORCEMENT IN ACCORDANCE WITH APPLICABLE DETAILS AS DETERMINED BY THE ARCHITECT AND ENGINEER. IN NO CASE SHALL REINFORCEMENT BE LESS THAN THE MINIMUM REINFORCEMENT PERMITTED BY THE CODES, NOR LESS THAN THE FOLLOWING:

(A) BEAM STIRRUPS: #3 @ 12"
(B) BEAM STIRRUP SUPPORTS: 1-#5 AT EACH STIRRUP BEND
(C) FACE REINFORCEMENT IN BEAMS OR PORTIONS OF BEAMS #4 @ 12" E.F.
(D) STRUCTURAL SLABS: 0.0020 X GROSS CONCRETE AREA IN EACH DIRECTION
(E) CONCRETE WALLS: 0.0025 X GROSS CONCRETE AREA IN EACH DIRECTION

4.12 WHERE REINFORCEMENT IS REQUIRED IN SECTION, REINFORCEMENT IS CONSIDERED TYPICAL WHEREVER THE SECTIONS APPLIES.

4.13 WHERE THERE IS CONFLICT BETWEEN LOCATIONS OF COLUMN VERTICAL BARS AND BEAM HORIZONTAL BARS, THE COLUMN BARS SHALL REMAIN IN THEIR DESIGNATED POSITIONS AND BEAM BAR LOCATIONS SHALL BE ADJUSTED.

4.14 DOWELS SHALL MATCH BAR SIZE, NUMBER AND SPACING, UNLESS NOTED OTHERWISE.

5.0 - MASONRY CONSTRUCTION

5.01 CLAY (BRICK) AND CONCRETE MASONRY (CMU) CONSTRUCTION SHALL CONFORM TO 'BUILDING CODE REQUIREMENTS FOR MASONRY STRUCTURES' (ACI 530-13/ASCE 5-13/TMS402-13), AND TO 'SPECIFICATIONS FOR MASONRY STRUCTURES' (ACI 530, 1-13/ASCE 6-13/TMS 602-13).

5.02 MATERIALS STRENGTH SHALL BE AS FOLLOWS:

(A) CONCRETE MASONRY UNITS (CMU) SHALL CONFORM TO ASTM C-90 OF C-145 GRADE N-1.
(B) MORTAR SHALL CONFORM TO ASTM C-270, TYPE M OR S.
(C) GROUT SHALL CONFORM TO ASTM C-476 FINE OR COARSE.

5.03 MASONRY SHALL HAVE f'm = 1,500 PSI, f'm IS THE COMPRESSIVE STRENGTH OF THE MASONRY AT 28 DAYS AS DETERMINED BY PRISM TESTS, (SEE SPECIFICATIONS SECTION 04200)

5.04 PRIOR TO GROUTING CELLS, BARS AND CELLS MUST BE INSPECTED BY THE TESTING AGENCY.

5.05 THE DESIGN OF REINFORCED MASONRY CONSTRUCTIONS IS BASED ON ALLOWABLE STRESSES PREDICATED ON 'WITH INSPECTION' PROVISIONS, REQUIRING THAT QUALIFIED MASONRY INSPECTION TAKE PLACE ON A CONTINUOUS BASIS WHENEVER MASONRY IS BEING PLACED.

5.06 REINFORCED MASONRY WALLS SHALL HAVE BOND BEAMS AT THE TOP OF EACH WALL AND SHALL BE CONTINUOUS WITH ALL INTERSECTING BOND BEAMS.

5.07 BONDING METHODS, TIES, LINTELS AND ACCESSORIES SHALL BE APPROVED BY THE ARCHITECT. ANCHORS SHALL ONLY BE INSTALLED IN FULLY GROUTED CELLS OF CONCRETE MASONRY.

5.08 MASONRY OPENINGS FOR UTILITIES ARE TO BE CLOSED UP WITH NEW MASONRY WORK AROUND THE UTILITY AND PROPERLY FIRESTOPPED WITH MATERIAL SPECIFIED BY ARCHITECT'S DRAWINGS AND SPECIFICATIONS.

5.09 PROVIDE 1-#5 VERTICAL REINFORCING AT 32" OC AT ALL MASONRY WALLS UNLESS NOTED OTHERWISE. THIS REINFORCING SHALL BE CONTINUOUS FULL HEIGHT AND SPLICED 2'-0" ABOVE EACH FLOOR LEVEL.

5.10 PROVIDE W1.7 (9 GAUGE) LADDER TYPE WIRE JOINT REINFORCING AT 16 INCHES VERTICAL SPACING UNLESS NOTED OTHERWISE.

5.11 MASONRY BLOCK CELLS CONTAINING VERTICAL REINFORCING SHALL BE GROUTED SOLID. FILLING CELLS WITH MORTAR IS UNACCEPTABLE. THE COMPRESSIVE STRENGTH OF GROUT AT THE END OF 28 DAYS SHALL BE 3,000 PSI MINIMUM.

5.12 PROVIDE 2-#5 CONTINUOUS HORIZONTAL BARS IN THE TOP COURSE OF WALLS (BOND BEAM) AND AT 4' - 0" O.C. VERT.

6.0 - STRUCTURAL STEEL

6.01 STRUCTURAL STEEL DESIGN, FABRICATION AND ERECTION SHALL CONFORM TO THE AISC "MANUAL OF STEEL CONSTRUCTION", "SPECIFICATION FOR STRUCTURAL STEEL BUILDINGS AND BRIDGES" (ANSI/AISC 360), AND "CODE OF STANDARD PRACTICE FOR STEEL BUILDINGS AND BRIDGES" (ANSI/AISC 303).

6.02 STRUCTURAL STEEL SHALL BE NEW STEEL CONFORMING TO THE FOLLOWING:

(A) WIDE FLANGE SHAPES:_____ASTM A992
(B) OTHER STEEL SHAPES, PLATES AND BARS:_____ASTM A572 OR ASTM A36.
(C) STRUCTURAL TUBING:_____ASTM A500 GR B.

6.03 ALL WELDED CONNECTIONS SHALL BE MADE BY APPROVED CERTIFIED WELDERS AND SHALL CONFORM TO A.W.S. SPECIFICATIONS AMENDED TO DATE. ELECTRODES SHALL BE E70XX.

6.04 BOLTS SHALL CONFORM TO ASTM A325 AND BE INSTALLED SNUG-TIGHT UNLESS NOTED OTHERWISE

6.05 STRUCTURAL STEEL FRAMING SHALL BE WITHIN TOLERANCE BEFORE CONNECTIONS ARE FINALLY BOLTED OR WELDED.

6.06 FIELD CUTTING OF STRUCTURAL STEEL OR ANY FIELD MODIFICATIONS OF STRUCTURAL STEEL SHALL NOT BE MADE WITHOUT PRIOR WRITTEN APPROVAL BY THE ENGINEER FOR EACH SPECIFIC USE.

6.07 STRUCTURAL STEEL SHAPES AND PLATES EXPOSED TO WEATHER AND AT CANOPIES SHALL BE HOT-DIPPED GALVANIZED PER ASTM A123 U.N.O. FASTENERS SHALL BE HOT-DIPPED GALVANIZED PER ASTM A153 U.N.O. HOT-DIPPED GALVANIZING SHALL ALSO CONFORM TO ASTM A385. THE GALVANIZER SHALL SUBMIT A CERTIFICATE OF CONFORMANCE FOR RECORD.

6.08 PROVIDE FIELD TOUCH-UP AND REPAIR OF GALVANIZING AS REQUIRED PER ASTM A780 USING AN INORGANIC ZINC-RICH PRIMER.

6.09 WHEN DISSIMILAR METALS ARE IN CONTACT (E.G. STAINLESS STEEL IN CONTACT WITH GALVANIZED STEEL), COAT SURFACE WITH COAL TAR EPOXY OR PROVIDE OTHER APPROVED MEANS TO PROVIDE A BARRIER.

6.10 WELDS SHALL BE 1/4" FILLET WELDS MINIMUM UNLESS NOTED OTHERWISE ON THE DRAWINGS.

6.11 PROVIDE TEMPORARY ERECTION BRACING AND SUPPORTS TO HOLD STRUCTURAL STEEL FRAMING SECURELY IN POSITION. SUCH TEMPORARY BRACING AND SUPPORTS SHALL NOT BE REMOVED UNTIL PERMANENT BRACING HAS BEEN INSTALLED.

6.12 SUBMIT SHOP DRAWINGS AND PRODUCT DATA FOR APPROVAL PRIOR TO FABRICATION.

7.0 - PRE-ENGINEERED METAL BUILDING

7.01 THE PRE-ENGINEERED METAL BUILDING STRUCTURAL SYSTEMS SHALL INCLUDE, BUT NOT BE LIMITED TO, ALL PRIMARY, SECONDARY, AND SUPPLEMENTAL FRAMING.

7.02 FOR FRAMED OPENINGS AND OTHER INFORMATION NOT SHOWN ON STRUCTURAL DRAWINGS, REFER TO ARCHITECTURAL, EQUIPMENT, PLUMBING, MECHANICAL, AND ELECTRICAL DRAWINGS.

7.03 FOR ROOF-SUSPENDED AND WALL HUNG HVAC UNITS AND OTHER SUSPENDED MECHANICAL EQUIPMENT, REFER TO MECHANICAL AND EQUIPMENT DRAWINGS.

7.04 THE METAL BUILDING SYSTEMS SHALL INCLUDE ROOF CURBS, SUPPLEMENTAL FRAMING AND/OR SPECIAL PURLIN AND GIRT DESIGNS TO ACCOMMODATE LOCATIONS, DETAILS, AND CONCENTRATED DEAD LOADS OF ALL ROOF-TOP, ROOF-SUSPENDED, LIGHTING AND WALL HUNG EQUIPMENT AND SYSTEMS. THE CONTRACTOR SHALL COORDINATE ALL EQUIPMENT LOCATIONS, ATTACHMENT REQUIREMENTS, AND ACTUAL WEIGHTS WITH THE METAL BUILDING MANUFACTURER. THE CONTRACTOR (OR THE INSTALLING SUBCONTRACTOR) SHALL PROVIDE ALL HANGERS AND SUPPORTS FOR EQUIPMENT AND SYSTEMS INSTALLATION. HANGERS AND SUPPORTS SHALL COMPLY WITH THE PRE-ENGINEERED METAL BUILDING MANUFACTURERS RECOMMENDATIONS AND SUGGESTED DETAILS. IF THE ROOF PURLINS CANNOT SUPPORT THE WEIGHT OF THE BUILDING SYSTEMS AND EQUIPMENT SHOWN IN THESE CONTRACT DOCUMENTS, THEN THE METAL BUILDING MANUFACTURER SHALL PROVIDE SUPPLEMENTAL FRAMING TO SUPPORT THE REQUIRED BUILDING SYSTEMS AND EQUIPMENT LOADS AT NO ADDITIONAL COST TO THE OWNER.

7.05 THE PRE-ENGINEERED METAL BUILDING SHALL BE ERECTED IN STRICT CONFORMANCE WITH THE MANUFACTURER'S ERECTION DRAWINGS AND INSTALLATION INSTRUCTIONS .

7.06 THE PRE-ENGINEERED METAL BUILDING MANUFACTURER, PRIOR TO SUBMITTING FOUNDATION REINFORCING SHOP DRAWINGS, SHALL SUBMIT ANCHOR BOLT PLANS, COLUMN BASE PLATE DETAILS, AND FOUNDATION REACTIONS TO THE ENGINEER FOR APPROVAL. FOUNDATIONS FOR THE PRE-ENGINEERED METAL BUILDING SHALL NOT BE CONSTRUCTED UNTIL THE ANCHOR BOLT PLANS, COLUMN BASE PLATE DETAILS, AND FOUNDATION REACTIONS SHOP DRAWINGS HAVE BEEN APPROVED BY THE ENGINEER.

7.07 THE CONTRACTOR SHALL FURNISH ALL ANCHOR BOLTS FOR THE PRE-ENGINEERED METAL BUILDING. THE ANCHOR BOLT LAYOUT, QUANTITY, SIZE, AND PROJECTION SHALL BE IN ACCORDANCE WITH THE PRE-ENGINEERED METAL BUILDING MANUFACTURER'S APPROVED ANCHOR BOLT PLANS. THE ANCHOR BOLT DETAILS AND EMBEDMENT LENGTH SHALL BE IN ACCORDANCE WITH THE STRUCTURAL DRAWINGS.

7.08 ALL WORK SHALL CONFORM WITH THE APPROVED SHOP DRAWINGS. NO MODIFICATIONS TO THE PRE-ENGINEERED METAL BUILDING SHALL BE MADE WITHOUT AUTHORIZATION BY THE PRE-ENGINEERED METAL BUILDING MANUFACTURER AND APPROVAL OF THE ARCHITECT AND ENGINEER.

7.09 THE PRE-ENGINEERED METAL BUILDING FOUNDATIONS HAVE BEEN DESIGNED AND DETAILED TO ACCOMMODATE THE TYPICAL REQUIREMENTS OF A PRE-ENGINEERED METAL BUILDING. THE CONTRACTOR SHALL SUBMIT TO THE ENGINEER FOR APPROVAL ANY REQUIRED MODIFICATIONS TO ACCOMMODATE ANY SPECIFIC REQUIREMENTS OF THE APPROVED PRE-ENGINEERED METAL BUILDING MANUFACTURER. THE COSTS OF SUCH MODIFICATION SHALL BE BORNE BY THE CONTRACTOR.

7.10 ALL PRIMARY, SECONDARY, AND SUPPLEMENTAL FRAMING EXPOSED TO THE WEATHER OR CORROSIVE CONDITIONS (WITHIN LIMITS OF THE WASH BAY AND CANOPIES REGARDLESS OF EXPOSURE) SHALL BE HOT-DIPPED GALVANIZED. THIS INCLUDES BUT IS NOT LIMITED TO SECONDARY FRAMING FOR OVERHEAD DOORS, PERSONNEL DOORS, WINDOWS, AND TRANSLUCENT PANELS AND ALL FASTENERS. ALL OTHER STEEL FRAMING SHALL BE SHOP PRIMED GRAY.

7.11 PROTECT PRE-ENGINEERED METAL BUILDING COMPONENTS FROM WEATHER. REPAIR DAMAGED COATINGS AND AREAS OF RUST.

7.12 METAL BUILDING DESIGN DRIFT LIMITS FOR FRAMING SUPPORTING MEZZANINES SHALL BE LIMITED TO H/200 FOR A 10 YEAR WIND.

7.13 BUILDING DEFLECTION LIMITS SHALL CONFORM TO THE REQUIREMENTS LISTED IN THE NEW YORK STATE BUILDING CODE, AND THE TABLE ON THIS SHEET, WHICHEVER IS MORE STRINGENT.

8.0 - POST INSTALLED CONCRETE ANCHORS AND REINFORCING DOWELS

8.01 ADHESIVE ANCHORS AND REINFORCING DOWELS SHALL BE HILTI HIT-HY-200 ADHESIVE ANCHORING SYSTEM.

8.02 EXPANSION ANCHORS SHALL BE HILTI KWIK BOLT TZ EXPANSION ANCHORS.

8.03 INSTALL ANCHORS IN STRICT CONFORMANCE WITH THE MANUFACTURER'S REQUIREMENTS.

8.04 HOLES SHALL BE THOROUGHLY CLEANED AND DRY PRIOR TO INSTALLING ANCHORS.

8.05 DO NOT DAMAGE EXISTING REINFORCING. LOCATE REINFORCING WITH PROFOMETER OR OTHER MEANS PRIOR TO DRILLING CONCRETE.

8.06 ANCHORS INSTALLED OVERHEAD SHALL BE PROOF TESTED BY THE MANUFACTURER'S FIELD ENGINEER OR OTHER APPROVED AGENCY. PROOF TEST A MINIMUM OF 25% OF THE ANCHORS OR (2) TOTAL, WHICHEVER IS GREATER.

FOR BIDDING
NOT FOR CONSTRUCTION

Project:

ARDSLEY DEPARTMENT OF PUBLIC WORKS

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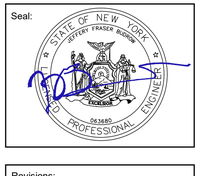
RHINEBECK ARCHITECTURE

Seal:



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GENERAL NOTES I

Sheet Number:

S001

9.0 - DESIGN LOADS:

9.01 GENERAL DESIGN REQUIREMENTS (IBC 2018, SECTION 1604)
(A) RISK CATEGORY IV (ASCE 7-16, TABLE 1.5-1)
(B) MUNICIPALITY VILLAGE OF ARDSLEY, NY

9.02 DESIGN LOADS TO BE VERIFIED BY PRE-ENGINEERED METAL BUILDING DESIGNER.

9.03 FLOOR DESIGN LOADING CRITERIA LOADS (IBC 2018, SECTION 1607)

OCCUPANCY / USE	SUPERIMPOSED DEAD LOAD [a]	LIVE LOADS	
		UNIFORM	CONCENTRATED
OFFICE + PARTITIONS	20 psf	80 psf	2000 lbs
LOBBIES, 1st FLOOR CORRIDORS, CONFERENCE	20 psf	100 psf	2000 lbs
SLABS-ON-GRADE IN VEHICLE STORAGE, VEHICLE MAINTENANCE, AND SHOPS	ACTUAL WEIGHT OF EQUIPMENT	250 psf OR HS-20 [g]	-
ROOF	16 psf [b]	20 psf [c]	-
MEZZANINE	20 psf	250 psf	3000 lbs
MECHANICAL ROOMS	20 psf	150 psf	-
STAIRS AND EXITS	5 psf	100 psf	300 lbs [d]
MAINTENANCE CATWALKS	5 psf	40 psf	300 lbs [d]
HANDRAIL AND GUARDRAIL SYSTEMS	-	50 lb/ft [e]	200 lbs [f]
INTERMEDIATE RAILS & PANEL FILLERS	-	50 lb/ft [e]	-

NOTE(S):

(a) SUPERIMPOSED DEAD LOADS ARE APPLIED IN ADDITION TO FRAMING AND SLAB SELF-WEIGHTS.
(b) PRE-ENGINEERED METAL BUILDING COLLATERAL LOAD AND 8PSF ALLOWANCE FOR FUTURE SOLAR PANEL SYSTEM.
(c) ROOF LIVE LOAD. ALSO REFER TO SNOW LOAD REQUIREMENTS IN 9.04.
(d) NOT CONCURRENT WITH THE UNIFORM LOAD. THE CONCENTRATED LOAD ON STAIR TREADS SHALL BE APPLIED ON AN AREA OF 2 INCHES BY 2 INCHES.
(e) APPLIED IN ANY DIRECTION ALONG THE HANDRAIL OR TOP RAIL TO PRODUCE THE MAXIMUM EFFECTS. UNIFORM AND CONCENTRATED LOADS ARE NOT APPLIED CONCURRENTLY.
(f) APPLIED NORMAL TO THE SURFACE ON AN AREA NOT TO EXCEED 12"x12" (NOT CONCURRENT WITH TOP RAIL LOADS).
(g) VEHICLE LOADING PER IBC 2015 1607.7.

9.04 ROOF SNOW LOAD (IBC 2018, SECTION 1608)

(A) GROUND SNOW LOAD, Pg 30 PSF (ASCE 7-16, FIGURE 7.2-1)
(B) MINIMUM FLAT ROOF SNOW LOAD, Pf* 27.72 PSF* (ASCE7-16, SEC. 7.3)
(C) SNOW EXPOSURE FACTOR, Ce 1.1 (ASCE 7-16, TABLE 7.3-1)
(D) THERMAL FACTOR, Ct 1.0 (ASCE 7-16, TABLE 7.3-2)
(E) SNOW LOAD IMPORTANCE FACTOR, Is 1.2 (ASCE 7-16, TABLE 1.5-2)
(F) ROOF SLOPE FACTOR, Cs 1.0 (ASCE 7-16, FIGURE 7.4-1)
(G) * ADJUST FOR SNOW DRIFT AND UNBALANCED SNOW LOADING

9.05 WIND LOADS (IBC 2018, SECTION 1609)

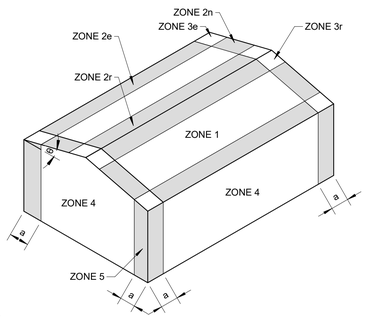
(A) BASIC WIND SPEED, V (3-SECOND GUST WIND SPEED) 129 MPH (ASCE 7-16, FIG. 26.5-1D)
(B) BUILDING ENCLOSURE CLASSIFICATION ENCLOSED (ASCE 7-16, SEC. 26.2)
(C) WIND EXPOSURE CATEGORY C (ASCE 7-16, SEC. 26.7)
(D) DESIGN BUILDING DIMENSIONS
(E) COMPONENTS AND CLADDING (ASCE 7-16, SEE TABLE)
(1) ANALYSIS PROCEDURE LOW RISE BUILDINGS (ASCE 7-16)
(a) WIND DIRECTIONALITY FACTOR, Kd 0.85 (ASCE 7-16, TABLE 26.6-1)
(b) TOPOGRAPHIC FACTOR, Kzt 1.0 (ASCE 7-16, SECTION 26.8)
(c) VELOCITY PRESSURE COEFFICIENT, Kz 0.94 (ASCE 7-16, TABLE 26.10-1)
(d) INTERNAL PRESSURE COEFFICIENT, GCpi +/-0.18 (ASCE 7-16, TABLE 26.13-1)
(e) GROUND ELEVATION FACTOR, Ke 1.0 (ASCE 7-16, TABLE 26.9-1)

COMPONENTS AND CLADDING WIND PRESSURE LOADS ON BUILDING

EFFECTIVE WIND AREA (SF)	ROOF LOADS (psf)						WALL LOADS (psf)			
	ZONE 1		ZONE 2		ZONE 3		ZONE 4		ZONE 5	
	POS	NEG	POS	NEG	POS	NEG	POS	NEG	POS	NEG
10	17.09	-66.8	17.09	-88.13	17.09	-120.1	N/A	N/A	N/A	N/A
50	14.6	-56.55	14.6	-75.0	14.6	-93.8	N/A	N/A	N/A	N/A
100	13.51	-52.1	13.51	-69.2	13.51	-82.5	N/A	N/A	N/A	N/A
500	13.51	-52.1	13.51	-69.2	13.51	-82.5	N/A	N/A	N/A	N/A

NOTE(S):

(A) POS - INDICATES POSITIVE PRESSURE (INWARD OR TOWARD THE SURFACES)
(B) NEG - INDICATES NEGATIVE PRESSURE (OUTWARD OR AWAY FROM SURFACES)



9.06 EARTHQUAKE LOADS (IBC 2018, SECTION 1613)
(A) SITE CLASS C (GEOTECH REPORT)
(B) SPECTRAL RESPONSE ACCELERATIONS
(1) Ss 0.295 (ASCE 7-16, SEC. 11.4.2)
(2) S1 0.061 (ASCE 7-16, SEC. 11.4.2)
(C) SPECTRAL RESPONSE COEFFICIENTS
(1) Sds 0.256 (ASCE 7-16, SEC. 11.4.5)
(2) Sd1 0.061 (ASCE 7-16, SEC. 11.4.5)
(D) SEISMIC DESIGN CATEGORY C (ASCE 7-16, SEC 11.6)
(E) SEISMIC IMPORTANCE FACTOR, Ie 1.5 (ASCE 7-16, TABLE 1.5-2)
(F) SEISMIC FORCE RESISTING SYSTEM:
(1) STEEL SYSTEM NOT SPECIFICALLY DETAILED FOR SEISMIC RESISTANCE
(a) RESPONSE MODIFICATION COEFFICIENT, R _ 3
(b) SYSTEM OVERSTRENGTH PARAMETER,Ωo _ 3
(c) DEFLECTION AMPLIFICATION FACTOR, Cd _ 3

(G) ANALYSIS PROCEDURE EQUIVALENT LATERAL FORCE ANALYSIS (ASCE 7-16, SEC. 12.8)

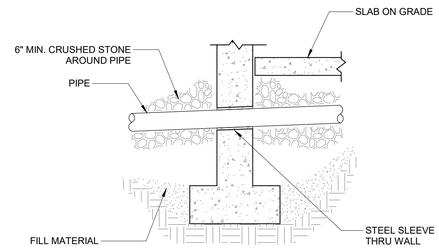
1 LOADING NOTES
SCALE: 1/2" = 1'-0"

10.0 - BUILDING DEFLECTION LIMITS

BUILDING DEFLECTION LIMITS			
CONSTRUCTION	LIVE	SNOW OR WIND (c)	DEAD+LIVE
ROOF MEMBER (d) SUPPORTING PLASTER CEILING SUPPORTING NON PLASTER CEILING	(a) 1/360 1/240 1/180	(a) 1/360 1/240 1/180	 1/360 1/240 1/180
FLOOR MEMBERS	(b) 1/360	-	 1/240
EXTERIOR WALLS AND INTERIOR PARTITIONS WITH MASONRY VENEER ALL OTHER CASES	-	 1/600 1/240	-

(A) TOTAL ROOF SNOW LOAD DEFLECTION SHALL NOT EXCEED 1 1/4".
(B) TOTAL FLOOR LIVE LOAD DEFLECTION SHALL NOT EXCEED 1".
(C) WIND DEFLECTIONS MAY BE BASED ON A 10-YEAR WIND.
(D) DEFLECTIONS OF MEMBERS SUPPORTING CRANES SHALL MEET DEFLECTION CRITERIA REQUIRED BY THE CRANE MANUFACTURER OR AS SPECIFIED IN THE ABOVE, WHICHEVER IS MORE STRINGENT.

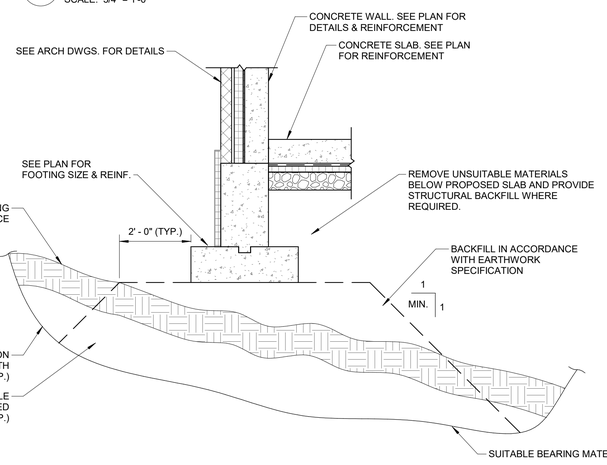
2 BUILDING DEFLECTION LIMITS
SCALE: 1" = 1'-0"



NOTE(S):

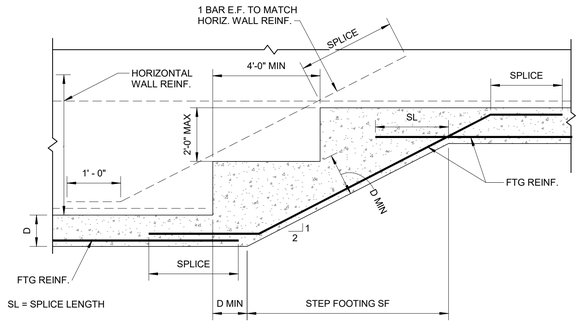
1. PIPE SHALL NOT PASS UNDER OR THRU WALL FOOTING. LOWER FOOTING BY STEPPING TO AVOID INTERFERENCE.

3 PIPE THROUGH FOUNDATION WALL
SCALE: 3/4" = 1'-0"

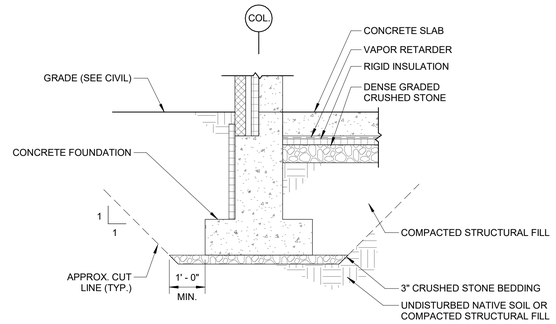


NOTES:
1. REFER TO EARTHWORK SPECIFICATION FOR DESCRIPTION OF UNSUITABLE MATERIALS AND SUITABLE BEARING MATERIAL.

4 TYPICAL REMOVAL OF UNSUITABLE MATERIALS
SCALE: 1/2" = 1'-0"



7 STEP FOOTING DETAIL
SCALE: 3/4" = 1'-0"



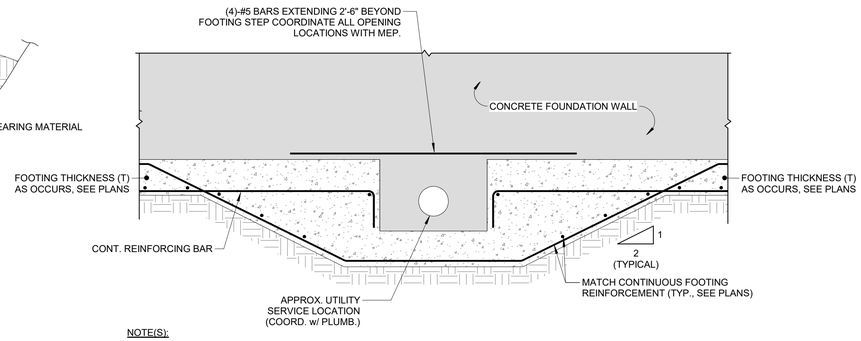
FOUNDATION NOTE(S):

1. UNDOCUMENTED FILL AND LOOSE OR DISTURBED SOILS SHALL BE REMOVED FROM ALL FOUNDATION AREAS. THE CONTRACTOR SHALL CONTACT THE ENGINEER PRIOR TO FOUNDATION CONSTRUCTION TO OBSERVE ALL FOUNDATION SUBGRADES. REFER TO DETAIL 7/S002 AND EARTHWORK SPECIFICATION FOR LIMITS OF UNSUITABLE SOILS REMOVAL AND BACKFILL REQUIREMENTS BELOW FOUNDATIONS AND SLABS.
2. 3-INCHES OF CRUSHED STONE SHALL BE PLACED AND COMPACTED AT THE BASE OF FOOTING EXCAVATIONS.
3. THE CONTRACTOR IS RESPONSIBLE FOR SUBGRADE PROTECTION.

SLAB NOTE(S):

1. A MINIMUM OF 12-INCHES OF DENSE GRADED CRUSHED STONE SHALL BE PLACED BELOW SLABS. REFER TO EARTHWORK SPECIFICATION FOR PLACEMENT AND COMPACTION REQUIREMENTS. THE CONTRACTOR SHALL CONTACT THE ENGINEER PRIOR TO PLACEMENT TO EVALUATION SUBGRADE CONDITIONS.
2. REFER TO DETAIL 7/S002 AND EARTHWORK SPECIFICATION FOR LIMITS OF UNSUITABLE SOILS REMOVAL AND BACKFILL REQUIREMENTS BELOW FOUNDATIONS AND SLABS.
3. IF UNDERSLAB STONE IS TRAPPING WATER, THE WATER SHALL BE REMOVED PRIOR TO SLAB PLACEMENT.

6 TYPICAL CUT/FILL DETAIL
SCALE: 1/2" = 1'-0"



NOTE(S):

1. REFER TO ARCH./CIVIL/GEOTECHNICAL DETAILS FOR ADDITIONAL UNDER SLAB & FOUNDATION REQUIREMENTS NOT SHOWN ON THESE DRAWINGS. REQUIREMENTS MAY INCLUDE BUT ARE NOT LIMITED TO: PERIMETER DRAINS, INSULATION, WEEP HOLES, & SITE PREPARATION. REPORT ANY DISCREPANCIES BETWEEN DISCIPLINES TO A/E FOR CLARIFICATION PRIOR TO PROCEEDING WITH WORK.

5 UTILITY OPENING
SCALE: 1/2" = 1'-0"

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Revisions:

Rev	Date	Description

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PROJECT TRUE

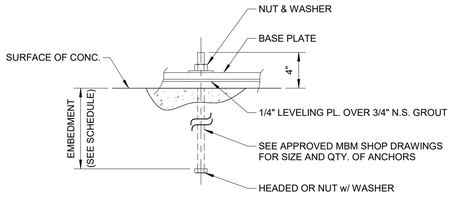
SCALE: AS NOTED

Date: APRIL 7, 2022
Drawn By: BUD/SAC
Reviewed By: NMS
Approved By: JFB
W&S Project No: ENG20-0501

Drawing Title:
GENERAL NOTES & TYPICAL DETAILS

Sheet Number:
S002

ANCHOR BOLT SCHEDULE	
DIAMETER (IN.)	EMBEDMENT (IN.)
3/4	16
1	20
1 1/4	24

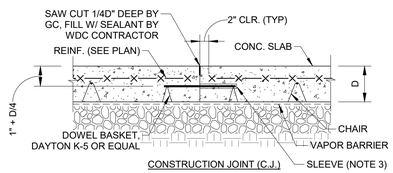


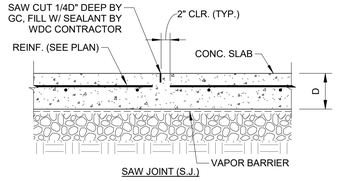
NOTE(S):

1. ANCHORS SHALL BE AS SPECIFIED BY THE MBM, PROVIDED AND INSTALLED BY CONTRACTOR.
2. ANCHORS SHALL CONFORM TO ASTM F1554 GRADE 55 STEEL. ANCHOR BOLTS SHALL BE WELDABLE, CONFORMING TO SUPPLEMENTARY REQUIREMENT S1.
3. ANCHORS BOLTS SHALL BE GALVANIZED IN ACCORDANCE WITH ASTM A153.

1 ANCHOR BOLT DETAIL

SCALE: 1 1/2" = 1'-0"





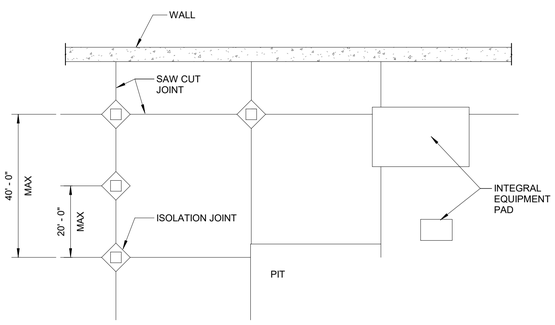
CONSTRUCTION JOINT (C.J.)			
SLAB THICKNESS, IN.	MIN. DOWEL LENGTH (L), IN.	MAXIMUM DOWEL SPACING, IN.	DOWEL DIAMETER AND TYPE
LESS THAN 8	N/A	N/A	N/A
8 TO AND INCLUDING 11.5	16	12	1" BAR

NOTE(S):

1. ALL DOWELS SHALL BE STRAIGHT, SMOOTH AND FREE FROM BURRS AT THE ENDS
2. ONE-HALF OF EACH DOWEL SHALL BE OILED OR OTHERWISE TREATED TO PREVENT BONDING WITH THE CONCRETE.
3. CONTRACTOR SHALL SECURELY SUPPORT DOWELS BY MEANS OF DOWEL BASKETS TO PREVENT ANY DISPLACEMENT OF THE DOWELS DURING CONCRETE PLACEMENT.
4. PUNCTURES IN THE VAPOR BARRIER MUST BE SEALED. ENGINEER SHALL INSPECT THE CONDITION OF THE VAPOR BARRIER BEFORE PLACING CONCRETE.
5. STOP REINFORCING 2" FROM EACH SIDE OF CONSTRUCTION/CONTROL JOINT.
6. AT CONTRACTION JOINTS IT SHALL BE PERMITTED TO OMIT DOWEL BARS IF 50% OF THE REINFORCING STEEL IS LEFT CONTINUOUS THROUGHOUT THE JOINT AND THE REMAINING BARS ARE CUT IN ACCORDANCE WITH NOTE 5.

4 SLAB ON GRADE

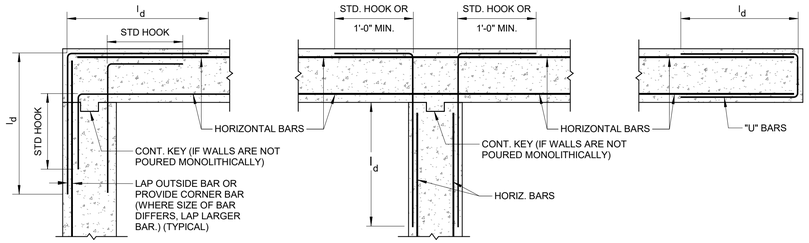
SCALE: 3/4" = 1'-0"



NOTE: PROVIDE SHOP DRAWINGS INDICATING PROPOSED JOINT LAYOUTS.

7 HORIZONTAL CONCRETE JOINTS DIAGRAM

SCALE: 1" = 20'-0"

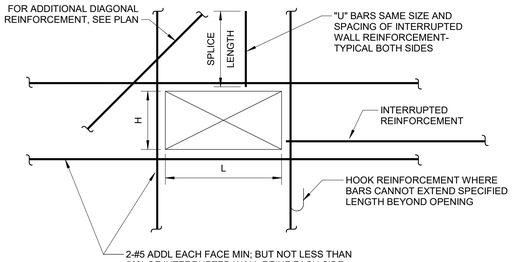


NOTE(S):

1. VERTICAL BARS NOT SHOWN FOR CLARITY. (TYP.)
2. FOR LENGTH OF ld, REFER TO SPLICE AND DEVELOPMENT LENGTH TABLE.

2 HORIZONTAL WALL REINFORCING PLAN

SCALE: 1/2" = 1'-0"

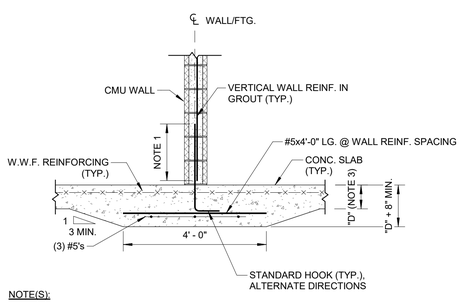


NOTES:

1. WALL OPENINGS SHALL BE COORDINATED AND DETAILED ON THE REINFORCEMENT SHOP DRAWINGS.

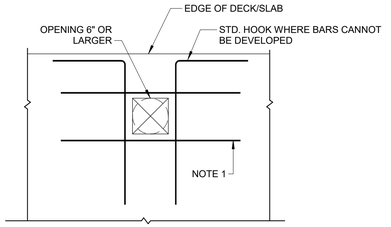
3 MASONRY PARTITION FOUNDATION

SCALE: 1/2" = 1'-0"



NOTE(S):

1. SPLICE LAP BARS AS REQUIRED FOR BAR SIZE, FOR WALLS 4-FEET OR LESS ABOVE FINISH FLOOR, HOOKED BAR MAY CONTINUE TO THE TOP OF WALL.
2. THIS DETAIL SHALL BE USED AT ALL INTERIOR MASONRY WALLS. COORDINATE WITH ARCHITECT FOR WALL LOCATIONS.
3. "D" INDICATES OVERALL SLAB THICKNESS, REFER TO PLANS.

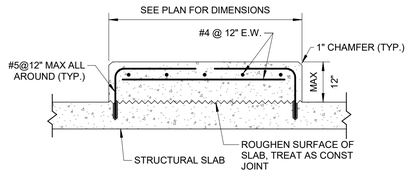


NOTE(S):

1. #5 ADDL EACH FACE MIN; BUT NOT LESS THAN 50% OF INTERRUPTED WALL REINF EACH SIDE OF OPENING. SPACE BARS AT 3" OC, EACH FACE. LENGTH OF ADDL REINF = L OR H+(2XSPLICE LENGTH).
2. FOR MINIMUM SPLICE LENGTH. SEE TABLE

5 REINFORCEMENT AT OPENINGS IN REINFORCED CONCRETE WALLS

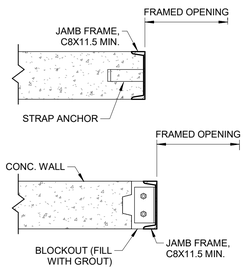
SCALE: 3/4" = 1'-0"



THE EXACT SIZE, SHAPE AND LOCATION OF EQUIPMENT (HOUSEKEEPING) PAD(S) SHALL BE DETERMINED BY THE CONTRACTOR AFTER APPROVAL OF SHOP DRAWINGS FOR EQUIPMENT. ANCHOR BOLTS WHERE REQUIRED SHALL BE SIZED AND LOCATED ACCORDING TO MANUFACTURER'S REQUIREMENTS.

8 CONCRETE EQUIPMENT PAD

SCALE: 3/4" = 1'-0"



NOTE(S):

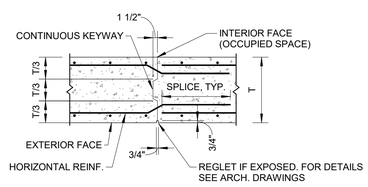
1. JAMB FRAMING AND BASE CONNECTION DESIGNED BY METAL BUILDING MANUFACTURER.
2. COORDINATE INSTALLATION OF DOOR JAMB WITH PLACEMENT OF CONCRETE WALLS
3. WALL REINF. NOT SHOWN FOR CLARITY.
4. ALL STEEL SHOWN IS HOT-DIP GALVANIZED.

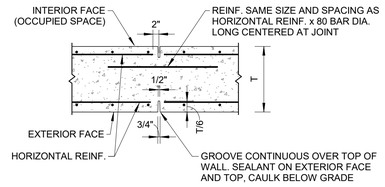
11 DOOR JAMB DETAIL (CONCRETE)

SCALE: 1" = 1'-0"

6 SUPPLEMENTAL SLAB REINFORCING

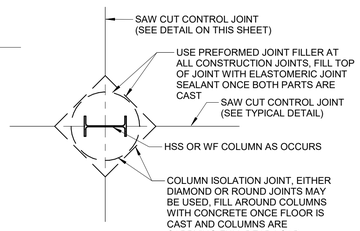
SCALE: 1/2" = 1'-0"





9 VERTICAL CONSTRUCTION JOINT (WALL)

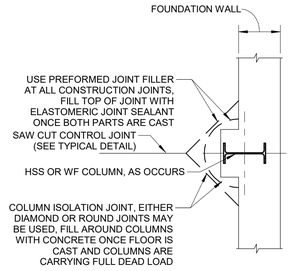
SCALE: 1/2" = 1'-0"



HSS INTERIOR COLUMN

10 VERTICAL CONTROL JOINT (WALL)

SCALE: 1/2" = 1'-0"



PIER OR COLUMN AT PERIMETER WALL

NOTE(S):

1. THESE DETAILS SHALL BE USED AT ALL COLUMN LOCATIONS.

12 TYPICAL SLAB ON GRADE ISOLATION JOINT DETAIL

SCALE: 1/2" = 1'-0"

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Revisions:

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Reviewed By: NMS

Approved By: JFB

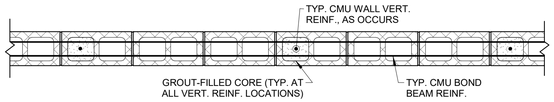
W&S Project No: ENG20-0501

Drawing Title:

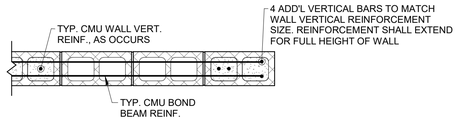
TYPICAL DETAILS I

Sheet Number:

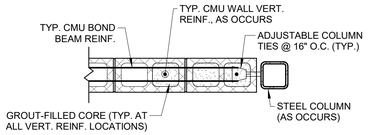
S003



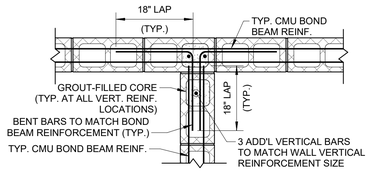
TYPICAL CONTINUOUS WALL REINFORCEMENT DETAIL



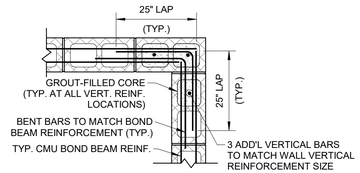
TYPICAL OPEN END WALL REINFORCEMENT DETAIL



TYPICAL STEEL COLUMN/ CMU WALL INTERFACE



TYPICAL WALL INTERSECTION REINFORCEMENT DETAIL



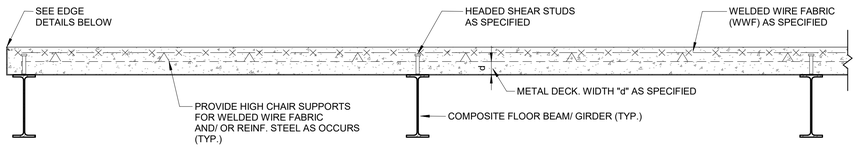
TYPICAL WALL CORNER REINFORCEMENT DETAIL

NOTE(S):

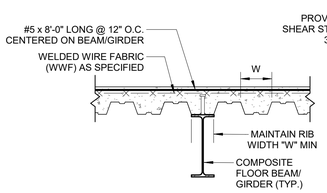
1. ALL CMU VERTICAL REINFORCED CORES AND HORIZONTAL REINFORCED COURSES (BOND BEAMS) SHALL BE GROUTED SOLID. GROUTING OF HORIZONTAL REINFORCEMENT NOT SHOWN ON THIS DETAIL FOR CLARITY.

1 TYPICAL MASONRY REINFORCING DETAILS

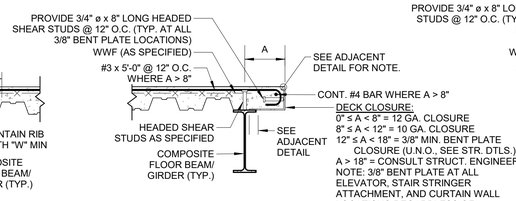
SCALE: 3/4" = 1'-0"



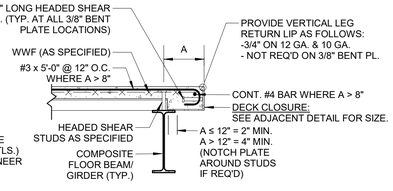
TYPICAL COMPOSITE SLAB SECTION



TYPICAL INTERIOR GIRDER DETAIL
(DECK PARALLEL TO GIRDER SPAN)



TYPICAL EXTERIOR SLAB EDGE DETAIL
(DECK PARALLEL TO BEAM SPAN)



TYPICAL EXTERIOR SLAB EDGE DETAIL
(DECK PERPENDICULAR TO BEAM SPAN)

TYPICAL COMPOSITE FLOOR EDGE DETAILS

NOTE(S):

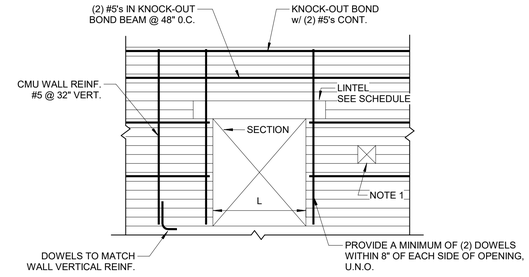
1. MINIMUM TOTAL THICKNESS = 5" (3" N.W. CONCRETE ON 2" COMPOSITE STEEL DECK). PROVIDE ADDITIONAL CONCRETE AS REQUIRED TO ACHIEVE A LEVEL SURFACE.
2. CONCRETE f'c = 4000 PSI MINIMUM (LIGHTWEIGHT). MAX. WATER/ CEMENT RATIO (W/C) = 0.45.
3. STEEL DECK AND SHEAR CONNECTOR WORK SHALL CONFORM TO THE SPECIFICATIONS FOR DESIGN OF LIGHT GAUGE COLD FORMED STEEL STRUCTURAL MEMBERS (AISC), SPECIFICATIONS FOR DESIGN, FABRICATION AND ERECTION OF STRUCTURAL STEEL (AISC), AND STRUCTURAL WELDING CODE - STEEL (AWS D- 1.1).
4. SHEAR CONNECTORS SHALL BE ¾" Ø. x 3½" LONG HEADED STUDS CONFORMING TO ASTM A108, GRADES 1010, 1015, 1017 OR 1020. SHEAR CONNECTORS SHALL BE SPACED UNIFORMLY ALONG BEAM TOP FLANGE.
5. PROVIDE SHEAR CONNECTORS AT 2'-0" O.C. AT ALL STEEL MEMBERS SUPPORTING CONCRETE SLABS WHERE SPECIFIC NUMBER IS NOT INDICATED ON DRAWINGS. (TYP. THROUGHOUT).
6. WELDED WIRE FABRIC SHALL BE 6x6-W2.9xW2.9 WWF.
7. STEEL DECK SHALL BE 2" ("LOK- FLOOR") COMPOSITE DECK (GALV.) AS MANUFACTURED BY UNITED STEEL DECK, INC., OR AN APPROVED EQUAL. USE 18 GA. DECK TYPICALLY, UNLESS NOTED OTHERWISE ON PLANS.
8. ALL COMPOSITE STEEL BEAM'S END CONNECTIONS SHALL BE DESIGNED FOR THE FOLLOWING:

   BEAM DEPTHS > 21" - (1.5) x REACTION DUE TO UNIFORM LOAD CAPACITY OF NON-COMPOSITE BEAM PER PART 2 OF THE AISC MANUAL OF STEEL CONSTRUCTION, LRFD
   BEAM DEPTHS ≤ 21" - (2.0) x REACTION DUE TO UNIFORM LOAD CAPACITY OF NON-COMPOSITE BEAM PER PART 2 OF THE AISC MANUAL OF STEEL CONSTRUCTION, LRFD

   ADD TO THESE REACTIONS ANY POINT LOADS OR BRACE REACTIONS FROM MEMBERS THAT FRAME INTO CONNECTION.
9. COORDINATE ALL EDGE OF SLAB DIMENSIONS AND SLAB OPENING LOCATIONS, AND EXTENTS WITH ARCHITECTURAL AND MEP DRAWINGS.
10. ALL COMPOSITE SLABS SHALL BE INSTALLED IN THE "TRIPLE-SPAN" CONDITION, UNLESS NOTED OTHERWISE. WHERE TRIPLE SPAN CANNOT BE USED, DECK SUPPLIER SHALL CHECK THE MAXIMUM UNSHORED SPAN FOR THE DECK ASSUMING 1" ADDITIONAL THICKNESS OF CONCRETE. IF THE ACTUAL SPAN EXCEEDS THIS LIMIT, THEN THE CONTRACTOR MUST SHORE THE SPAN DURING THE CONCRETE POUR.

2 TYPICAL COMPOSITE DECK DETAIL

SCALE: 3/4" = 1'-0"



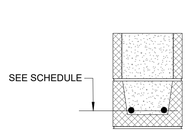
NOTE(S):

1. REINFORCEMENT ADJACENT TO OPENINGS NEED NOT BE PROVIDED FOR OPENINGS SMALLER THAT 16-INCHES IN EITHER HORIZONTAL OR VERTICAL DIRECTION, UNLESS DISTRIBUTED REINFORCING IS INTERRUPTED BY SUCH OPENINGS.
2. FOR WINDOWS AND SIMILAR OPENINGS THAT DO NOT EXTEND TO THE FLOOR, PROVIDE (2) #5 HORIZONTAL BARS AT BOTTOM OF OPENING, EXTEND PAST OPENING 24" EACH SIDE.

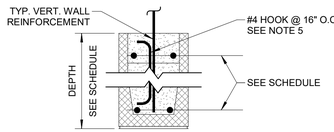
3 MASONRY PARTITION REINFORCING

SCALE: 3/4" = 1'-0"

LABEL	CLEAR SPAN L	REINFORCING IN LINTEL				END BEARING	DEPTH (FULLY GROUTED)
		6" WALL	8" WALL	10" WALL	12" WALL		
L-4	UP TO 4'-0"	1-#5	2-#5	2-#5	2-#6	8"	8"
L-5	TO 5'-0"	1-#5	2-#5	2-#5	2-#6	8"	16"
L-6	TO 6'-0"	2-#5	2-#5	2-#5	2-#6	8"	16"
L-7	TO 7'-0"	2-#5	2-#6	2-#6	2-#6	8"	16"
L-8	TO 8'-0"	2-#5	2-#7	2-#7	3-#6	8"	16"
L-9	TO 9'-0"	2-#6	2-#8	2-#8	2-#8	8"	24"
L-12	TO 12'-0"	-	-	-	2-#8	8"	24"



CONC. BLOCK LINTEL
SPANS UP TO 5'-0"



CONC. BLOCK LINTEL
SPANS OVER 5'-0" TO 12'-0"

NOTE(S):

1. GROUT f'c = 5000 PSI
2. MASONRY LOCATED AT MEZZANINES (LOAD BEARING LINTELS) SHALL ALL BE GROUTED SOLID TO THE TOP OF WALL.
3. REINFORCING SHALL EXTEND A MIN. OF 40 BAR DIAMETERS PAST THE OPENING (BUT NOT LESS THAN 24") IN FULL GROUT.
4. CMU f'm = 1,500 PSI (MIN.)
5. PROVIDE #4 SHEAR REINF. IN ADDITION TO TYP. VERT. REINFORCEMENT. CONTINUE SHEAR REINF. 24" PAST THE OPENING.

4 MASONRY LINTEL SCHEDULE

SCALE: 1" = 1'-0"

TENSION DEVELOPMENT & SPLICE LENGTHS FOR BARS				
	F'c = 4,000 PSI		F'c = 5,000 PSI	
BAR SIZE	TOP BARS (IN.)	OTHER BARS (IN.)	TOP BARS (IN.)	OTHER BARS (IN.)
#3	24	19	22	17
#4	32	25	29	22
#5	40	31	36	28
#6	48	37	43	33
#7	70	54	63	49
#8	80	62	72	55
#9	91	70	81	63
#10	102	79	91	70
#11	113	87	101	78

5 MINIMUM SPLICE DEVELOPEMENT LENGTHS

SCALE: 1/2" = 1'-0"

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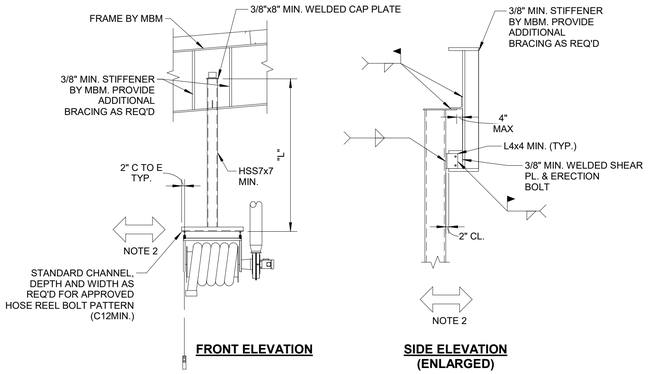
W&S Project No: ENG20-0501

Drawing Title:

TYPICAL DETAILS II

Sheet Number:

S004



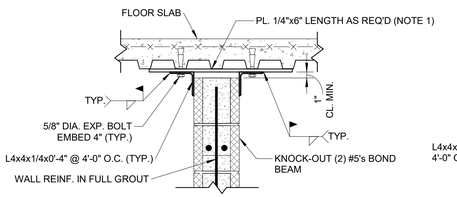
FRONT ELEVATION **SIDE ELEVATION (ENLARGED)**

NOTE(S):

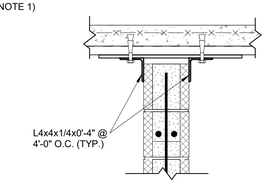
1. EXHAUST REEL SUPPORT BY MISC METALS FSB AND SHALL BE DESIGNED BY A PROFESSIONAL ENGINEER REGISTERED IN THE COMMONWEALTH OF MASSACHUSETTS.
2. COORDINATE SIZE AND LOCATION OF REELS WITH METAL BUILDING MANUFACTURER.
3. CONNECTION AT FRAMES SHALL BE DESIGNED BY BUILDING MANUFACTURER AND MISC METALS DESIGNER TO SAFELY SUPPORT FRAME AND REEL DEAD LOAD IN ADDITION TO 200 LB IN ANY DIRECTION AT LOCATIONS SHOWN ABOVE, MAXIMUM ALLOWABLE LATERAL DEFLECTION SHALL BE L/360 AT BASE OF SUPPORT.
4. COORDINATE HEIGHT REQUIREMENTS WITH EQUIPMENT DRAWINGS.

1 EXHAUST REEL SUPPORT

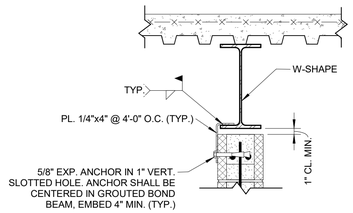
SCALE: 1/4" = 1'-0"



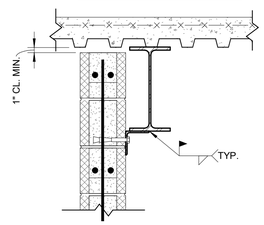
WHERE WALL ABUTS OPEN CELLS



ALTERNATE CONDITION #1



ALTERNATE CONDITION #2



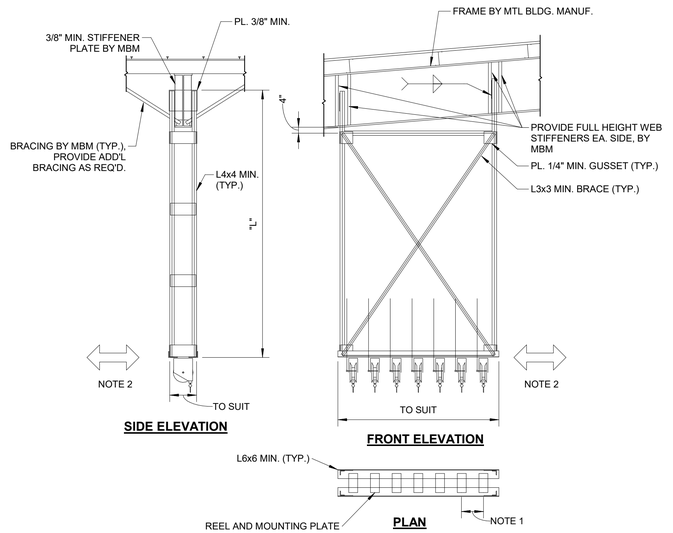
ALTERNATE CONDITION #3

NOTE(S):

1. WHERE RIBS ARE IN FULL CONTACT WITH RESTRAINING ANGLES THE PLATE MAY BE OMITTED.
2. STEEL CLIP ASSEMBLY PROVIDED AND INSTALLED BY MISC. METALS CONTRACTOR.

3 MASONRY PARTITION BRACING DETAILS

SCALE: 1" = 1'-0"



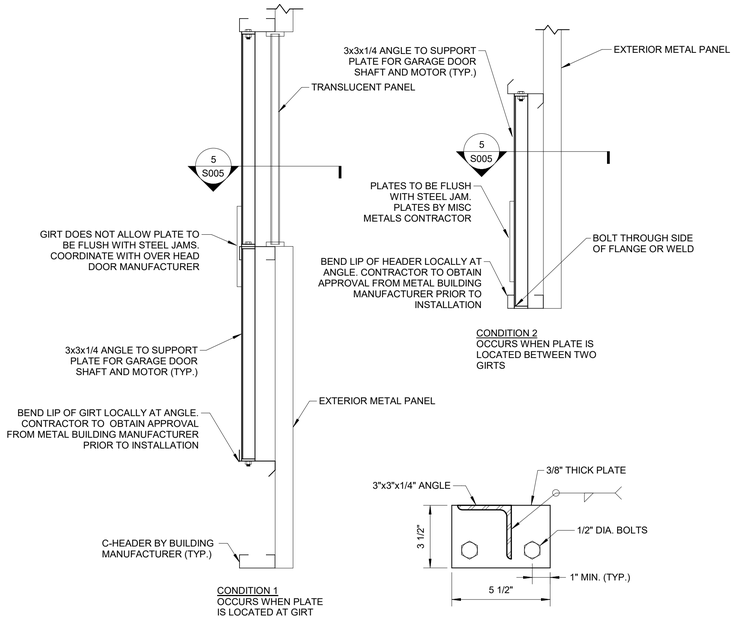
SIDE ELEVATION **FRONT ELEVATION** **PLAN**

NOTE(S):

1. HOSE REEL SUPPORT BY MISC METAL FSB AND SHALL BE DESIGNED BY A PROFESSIONAL ENGINEER REGISTERED IN THE COMMONWEALTH OF MASSACHUSETTS.
2. COORDINATE SIZE AND LOCATION OF REELS WITH METAL BUILDING MANUFACTURER.
3. CONNECTION AT FRAMES SHALL BE DESIGNED BY BUILDING MANUFACTURER AND MISC METALS DESIGNER TO SAFELY SUPPORT FRAME AND REEL DEAD LOAD IN ADDITION TO 200 LB IN ANY DIRECTION AT LOCATIONS SHOWN ABOVE, MAXIMUM ALLOWABLE LATERAL DEFLECTION SHALL BE L/360 AT BASE OF SUPPORT.
4. COORDINATE HEIGHT REQUIREMENTS WITH EQUIPMENT DRAWINGS.

2 HOSE REEL SUPPORT

SCALE: 1/4" = 1'-0"



5 OVERHEAD DOOR SUPPORT SECTION

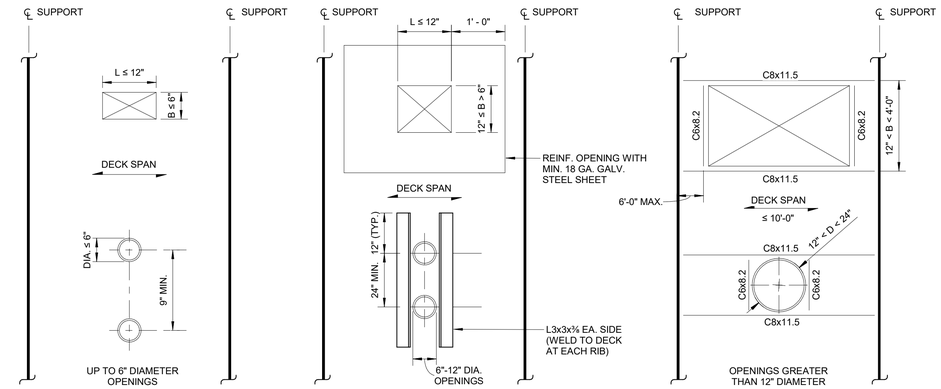
SCALE: 3" = 1'-0"

NOTE(S):

1. ALL OVERHEAD DOOR ASSEMBLY PROVIDED AND INSTALLED BY MISC. METALS CONTRACTOR.
2. METAL BUILDING DESIGNER SHALL DESIGN GIRTS TO SUPPORT OVERHEAD DOORS AND SUPPLEMENTAL FRAMING

4 OVERHEAD DOOR SUPPORT DETAIL

SCALE: 3/4" = 1'-0"



6 TYPICAL FRAMING DETAILS AT COMPOSITE DECK OPENINGS

SCALE: 3/4" = 1'-0"

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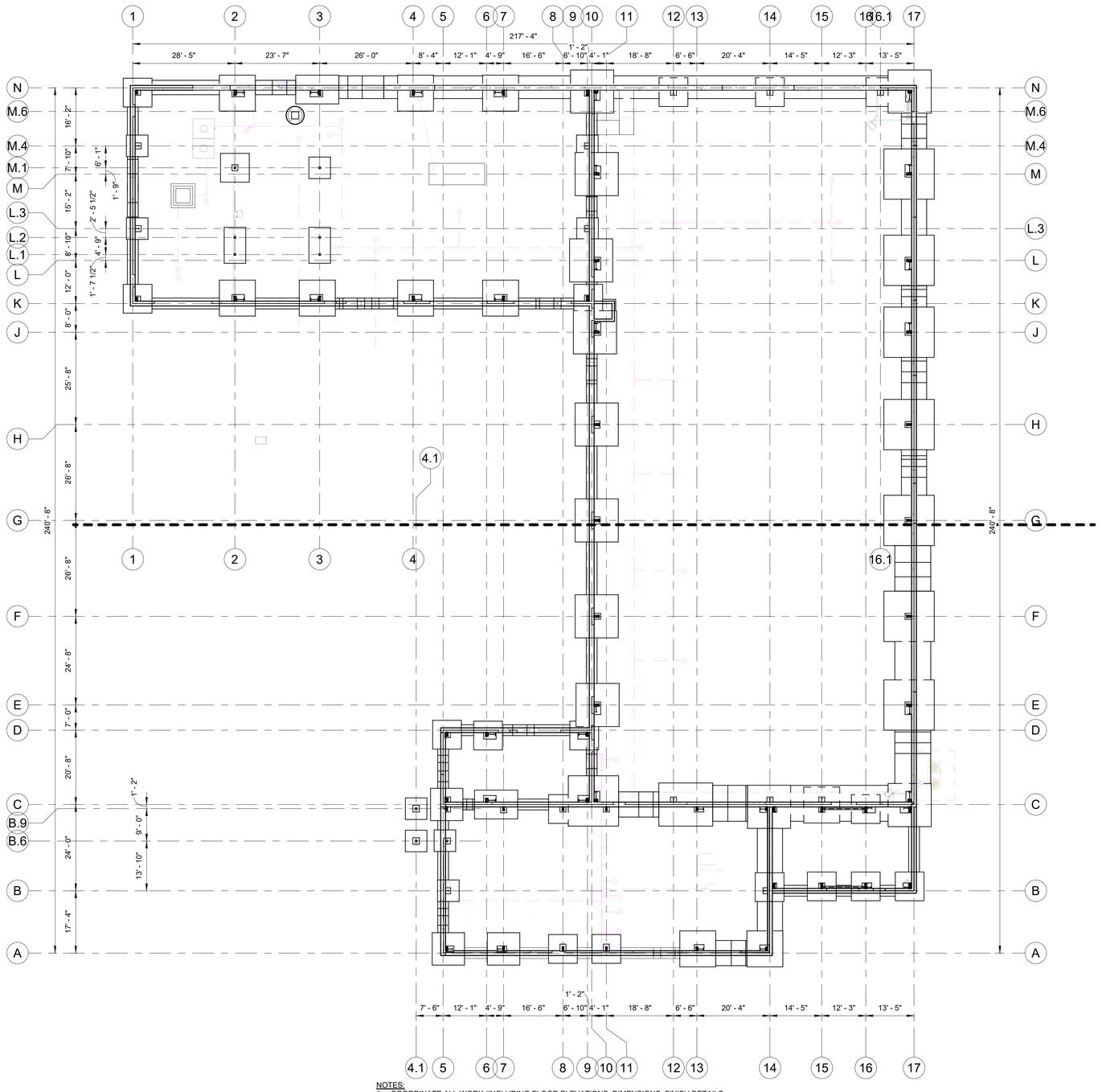
Drawing Title:

TYPICAL DETAILS III

Sheet Number:

S005



NOTES:
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2. [XX'-XX"] INDICATES BOTTOM OF FOOTING ELEVATION. ALL EXTERIOR FOOTINGS SHALL BE LOCATED A MINIMUM OF 4'-0" BELOW FINISH GRADE.
3. F# - INDICATES NEW CONCRETE FOOTING TYPE. SEE "FOOTING SCHEDULE" ON SHEET S401.
4. P# - INDICATES NEW CONCRETE PIER TYPE. SEE "PIER SCHEDULE" ON SHEET S401.
5. VEHICLE LIFT LOCATIONS SHALL BE COORDINATED WITH EQUIPMENT DRAWINGS AND APPROVED SHOP DRAWINGS.
6. S.F. INDICATES STEP FOOTING. SEE DETAILS ON S002.

1 FOUNDATION PLAN
SCALE: 1/16" = 1'-0"

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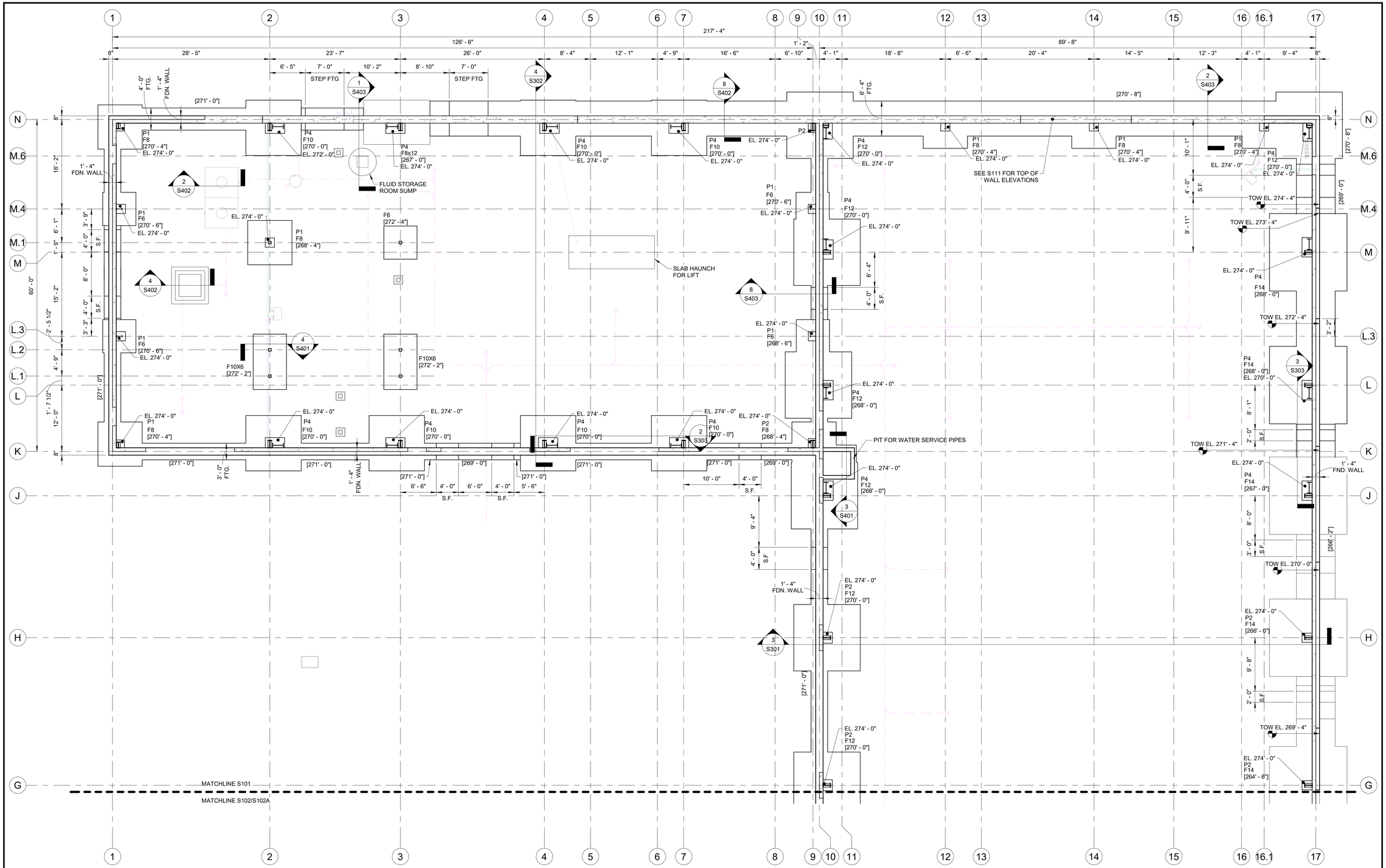
OVERALL FOUNDATION PLAN

Sheet Number:
S100



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4. P# - INDICATES NEW CONCRETE PIER TYPE. SEE "PIER SCHEDULE" ON SHEET S401.
5. VEHICLE LIFT LOCATIONS SHALL BE COORDINATED WITH EQUIPMENT DRAWINGS AND APPROVED SHOP DRAWINGS.
6. S.F. INDICATES STEP FOOTING. SEE DETAILS ON S002.

1 SHOPS/STORAGE/ADMIN FOUNDATION PLAN A

SCALE: 1/8" = 1'-0"

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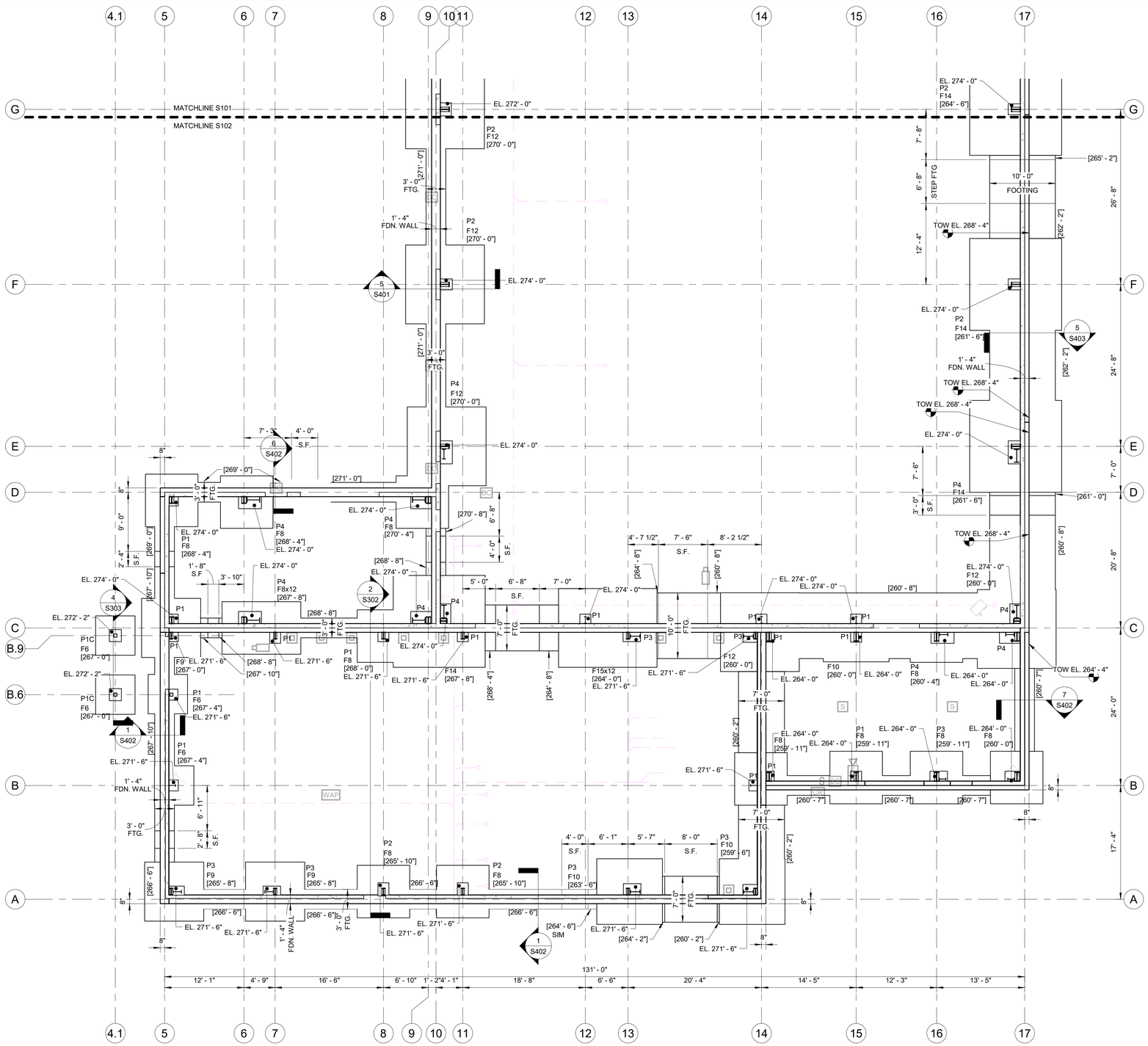
FOUNDATION PLAN A

Sheet Number:

S101



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5. VEHICLE LIFT LOCATIONS SHALL BE COORDINATED WITH EQUIPMENT DRAWINGS AND APPROVED SHOP DRAWINGS.
6. S.F. INDICATES STEP FOOTING. SEE DETAILS ON S002.

1 MAINT/STORAGE FOUNDATION PLAN B

SCALE: 1/8" = 1'-0"

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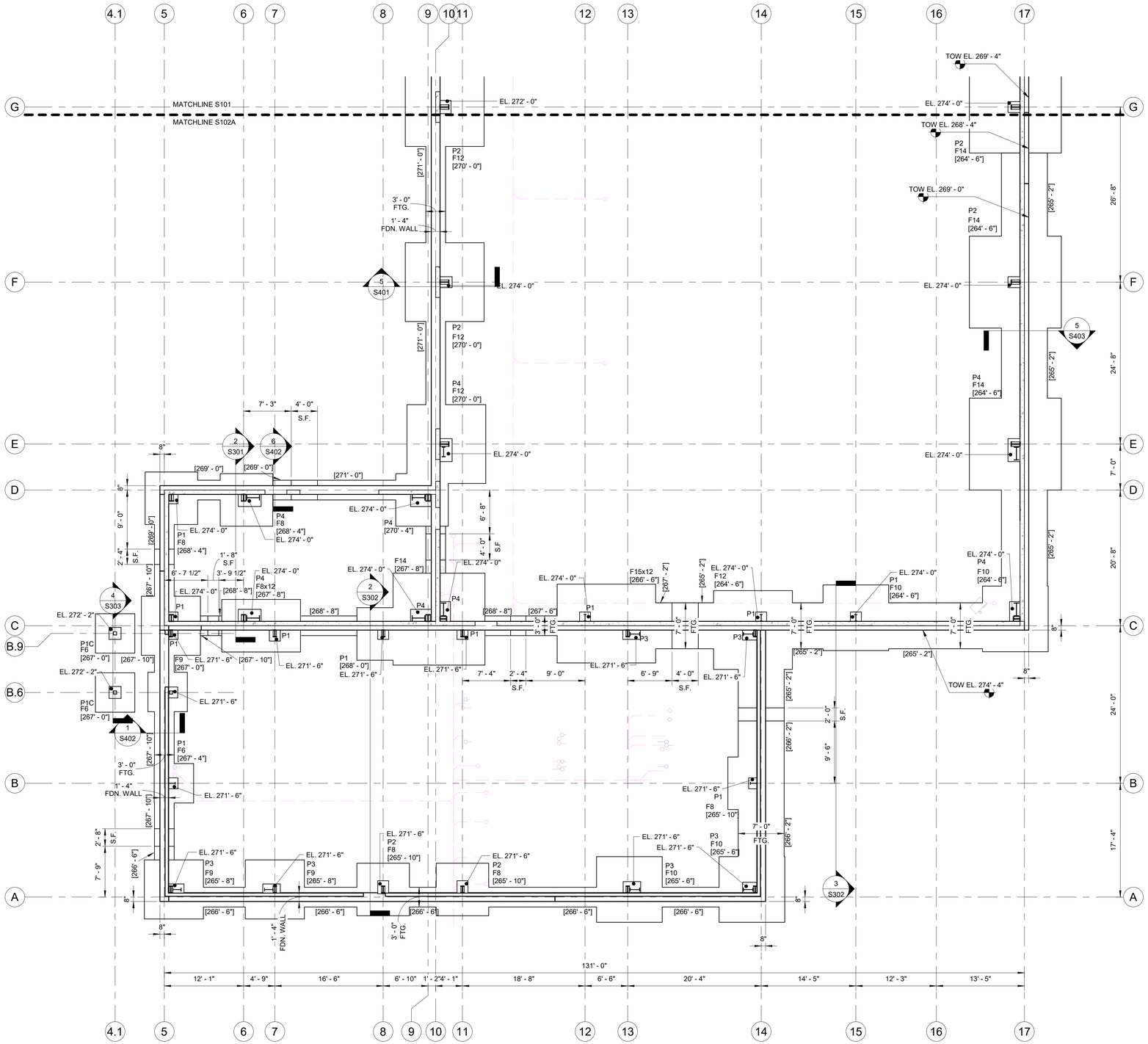
W&S Project No:	ENG20-0501

Drawing Title:

FOUNDATION PLAN B

Sheet Number:

S102



NOTES:
1. COORDINATE ALL WORK (INCLUDING FLOOR ELEVATIONS, DIMENSIONS, FINISH DETAILS. PENETRATIONS, ETC.) WITH THE ARCHITECTURAL DRAWINGS.
2. [XX'-XX"] INDICATES BOTTOM OF FOOTING ELEVATION. ALL EXTERIOR FOOTINGS SHALL BE LOCATED A MINIMUM OF 4'-0" BELOW FINISH GRADE.
3. F# - INDICATES NEW CONCRETE FOOTING TYPE. SEE "FOOTING SCHEDULE" ON SHEET S401.
4. P# - INDICATES NEW CONCRETE PIER TYPE. SEE "PIER SCHEDULE" ON SHEET S401.
5. VEHICLE LIFT LOCATIONS SHALL BE COORDINATED WITH EQUIPMENT DRAWINGS AND APPROVED SHOP DRAWINGS.
6. S.F. INDICATES STEP FOOTING. SEE DETAILS ON S002.

1 MAINT/STORAGE FOUNDATION PLAN B - ALT #3

SCALE: 1/8" = 1'-0"

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Project:

ARDSLEY DEPARTMENT OF PUBLIC WORKS

VILLAGE OF ARDSLEY, NY

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Seal:

STATE OF NEW YORK
JEFFERY FRASER SUMNER
083685
PROFESSIONAL ENGINEER

Revisions:

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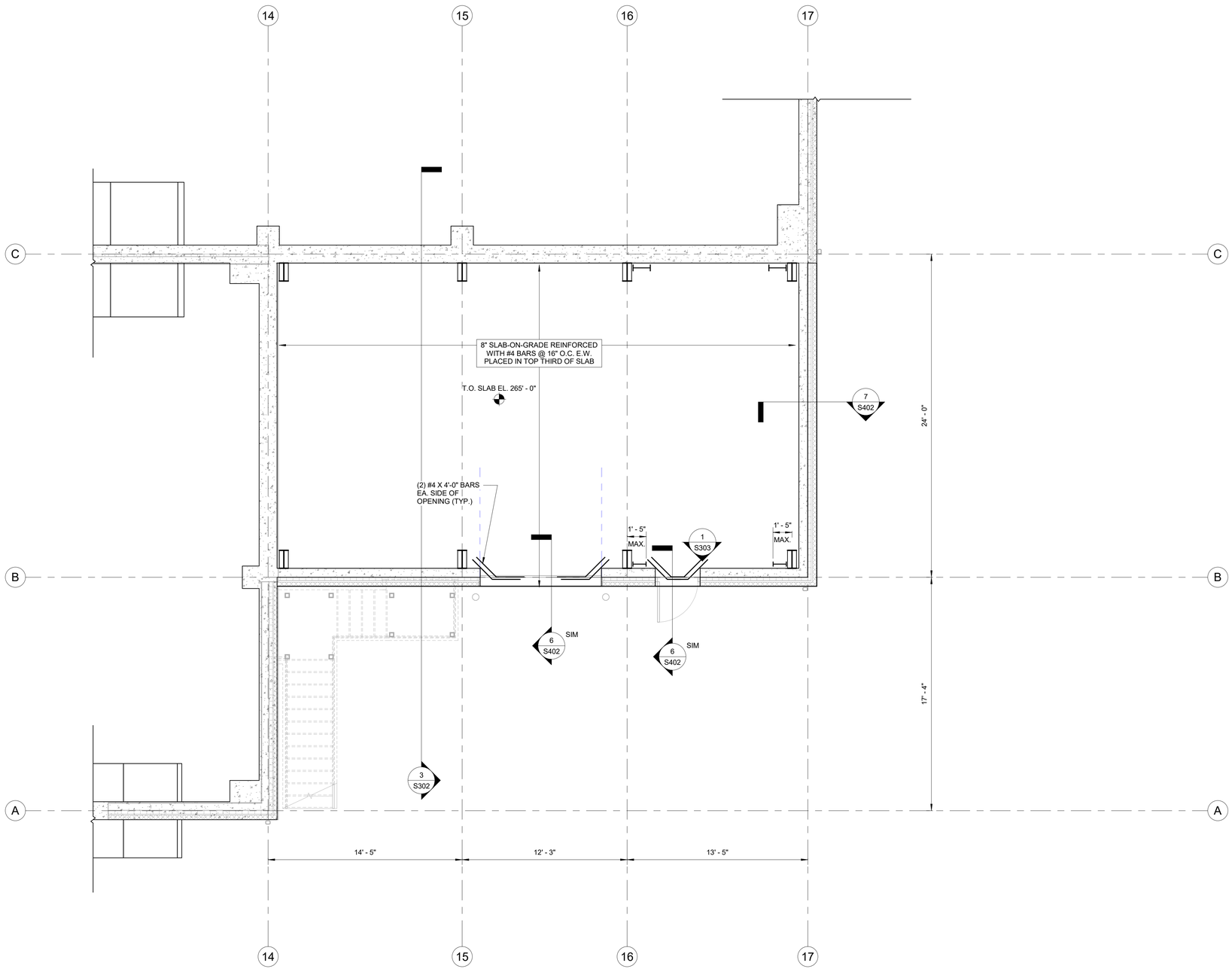
FOUNDATION PLAN B - ALT #3

Sheet Number:

S102A



NOTES:

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2. F.D. INDICATES FLOOR DRAIN LOCATIONS. COORDINATE WITH PLUMBING.
3. H.P. DESIGNATES HIGH POINTS IN SLAB AT ELEVATION INDICATED. SLOPE SLAB FROM H.P. TO DRAINS. MAXIMUM SLOPE TO DRAIN IN VEHICLE MAINTENANCE AND SHOPS BAYS SHALL BE 1/8" PER FOOT.
4. COORDINATE MASONRY WALL LOCATIONS AND WALL OPENINGS (DOORS, VENTS, WINDOWS, ETC.) WITH ARCHITECTURE AND MEP DRAWINGS.
5. LOCATIONS OF CONSTRUCTION JOINTS AND SAW JOINTS SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. REFER TO GENERAL NOTES FOR SPACING REQUIREMENTS. SUBMIT JOINT LOCATIONS TO THE ENGINEER FOR APPROVAL. REFER TO S003 FOR TYPICAL DETAILS.
6. COORDINATE ALL NON-STRUCTURAL WALLS WITH ARCHITECTURE FOR WALL TYPE AND LOCATIONS.
7. L-# INDICATES CONCRETE MASONRY UNIT (CMU) LINTEL TYPE. REFER TO CMU LINTEL SCHEDULE ON S004 FOR LINTEL INFORMATION. STEEL LINTELS SHALL NOT BE USED IN INTERIOR CONCRETE MASONRY WALLS UNLESS NOTED OTHERWISE ON THE PLANS.
8. COORDINATE LOCATIONS AND DIMENSIONS OF HAUNCHED SLAB WITH APPROVED SHOP DRAWINGS AND LIFT MANUFACTURER. HAUNCH SLAB TO 12" DEPTH. PROVIDE #4 @ 6" BOTH WAYS AT BOTTOM OF SLAB IN THESE LOCATIONS. SLAB REINFORCEMENT TO CONTINUE THROUGH THIS SECTION.

1 BASEMENT SLAB PLAN

SCALE: 1/4" = 1'-0"

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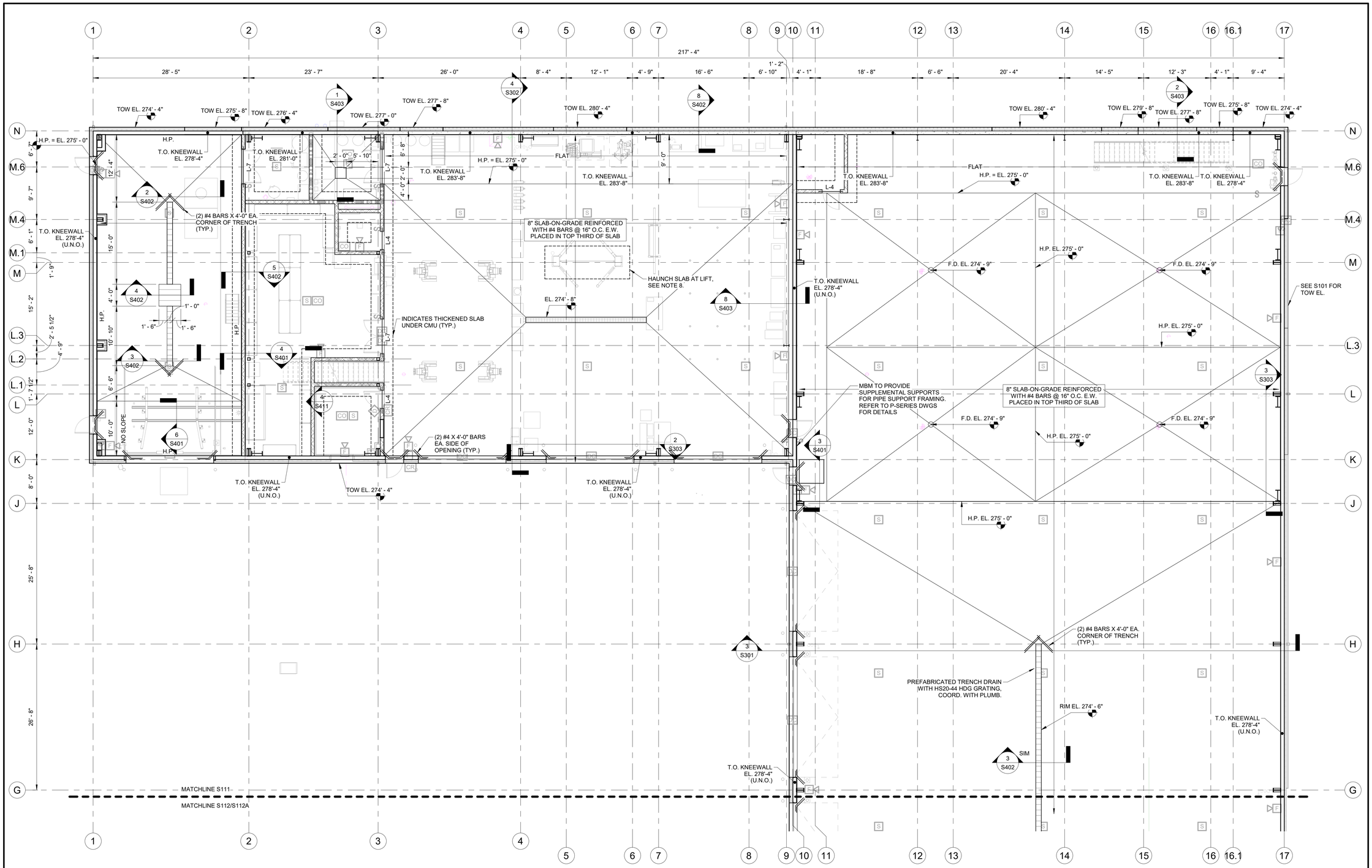
BASEMENT SLAB PLAN

Sheet Number:

S110



NOTES:
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6. COORDINATE ALL NON-STRUCTURAL WALLS WITH ARCHITECTURE FOR WALL TYPE AND LOCATIONS.
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1 MAINT/STORAGE SLAB PLAN A
SCALE: 1/8" = 1'-0"

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RHINEBECK ARCHITECTURE

Seal:
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SLAB PLAN A

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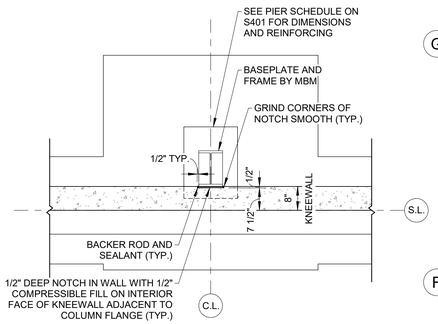
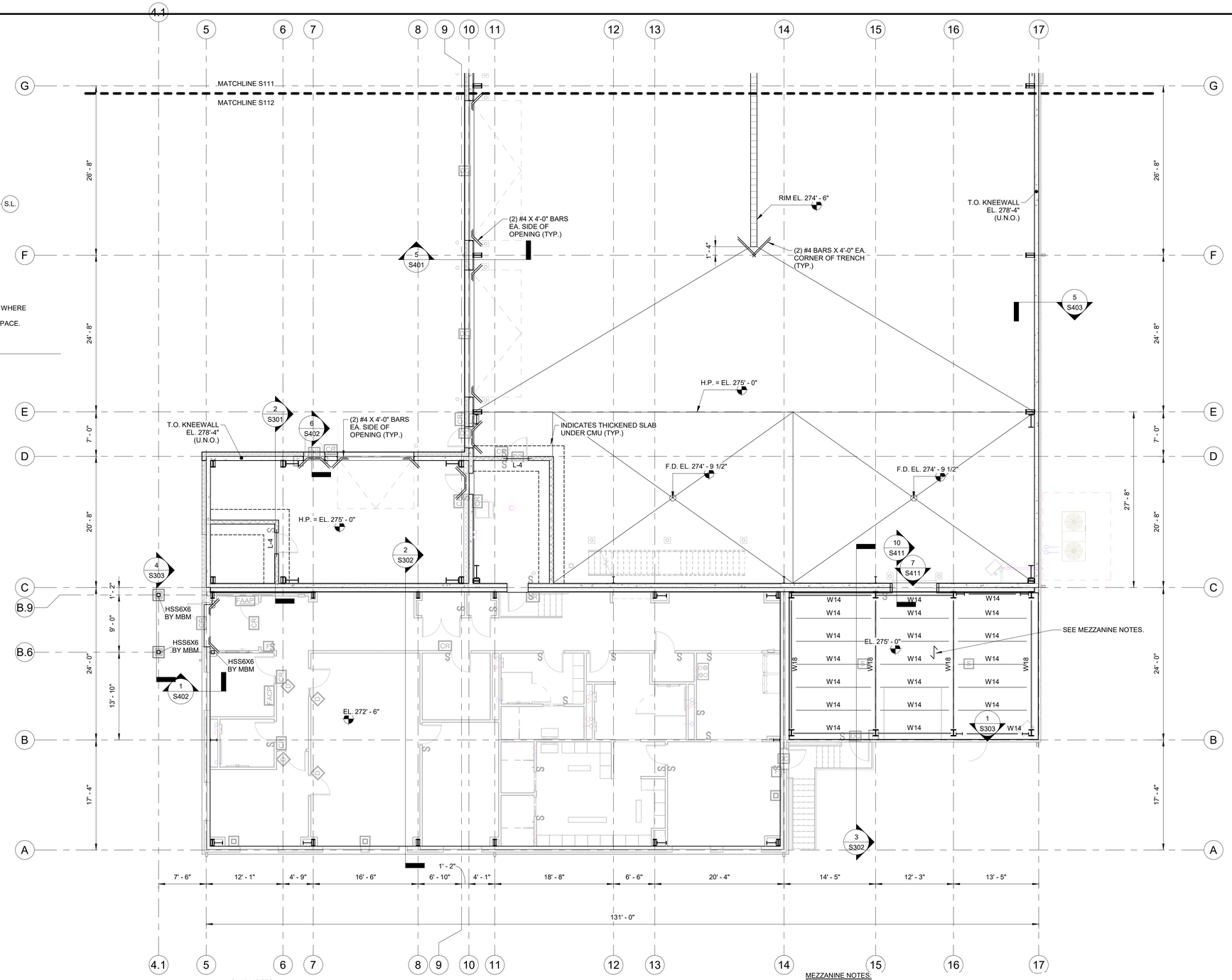


NOTE(S):

1. PROVIDE KNEEWALL NOTCH AND COMPRESSIBLE FILL AT ALL LOCATIONS WHERE THE COLUMN FLANGE IS DIRECTLY ADJACENT TO THE KNEEWALL.
2. PROVIDE UNIFORM NOTCH WIDTH ALONG THE SAME WALL IN THE SAME SPACE.

2 KNEEWALL AT COLUMN

SCALE: 1/2" = 1'-0"



SLAB NOTES:

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MEZZANINE NOTES:

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2. SEE S002 FOR DESIGN LOADS.
3. STEEL DECK POUR STOPS SHALL BE 3/8" BENT PLATE AT GUARDRAILS AND STAIR INTERFACES, UNLESS NOTED OTHERWISE.
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5. CONSIDER NOMINAL BEAM DEPTHS SHOWN (E.G. W12 = 12") TO BE MAXIMUM DEPTHS. VARY WEIGHTS AS REQUIRED BY DESIGN. COORDINATE WITH ARCHITECTURAL, MECHANICAL, ELECTRICAL, PLUMBING AND EQUIPMENT DRAWINGS.
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7. COORDINATE/PROVIDE OPENINGS IN MEZZANINE SLAB-ON-DECK FOR MECH./ELEC. /PLUMB. FIRE PROTECTION/ COMMUNICATION. REFER TO DETAIL 6 ON S005.

1 SHOPS/STORAGE/ADMIN SLAB PLAN B

SCALE: 1/8" = 1'-0"

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Project:

ARDSLEY DEPARTMENT OF PUBLIC WORKS

VILLAGE OF ARDSLEY, NY

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RHINEBECK ARCHITECTURE

Seal:

STATE OF NEW YORK JEFFERY FRASER BUDNY 083685 LICENSED PROFESSIONAL ENGINEER

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SLAB PLAN B

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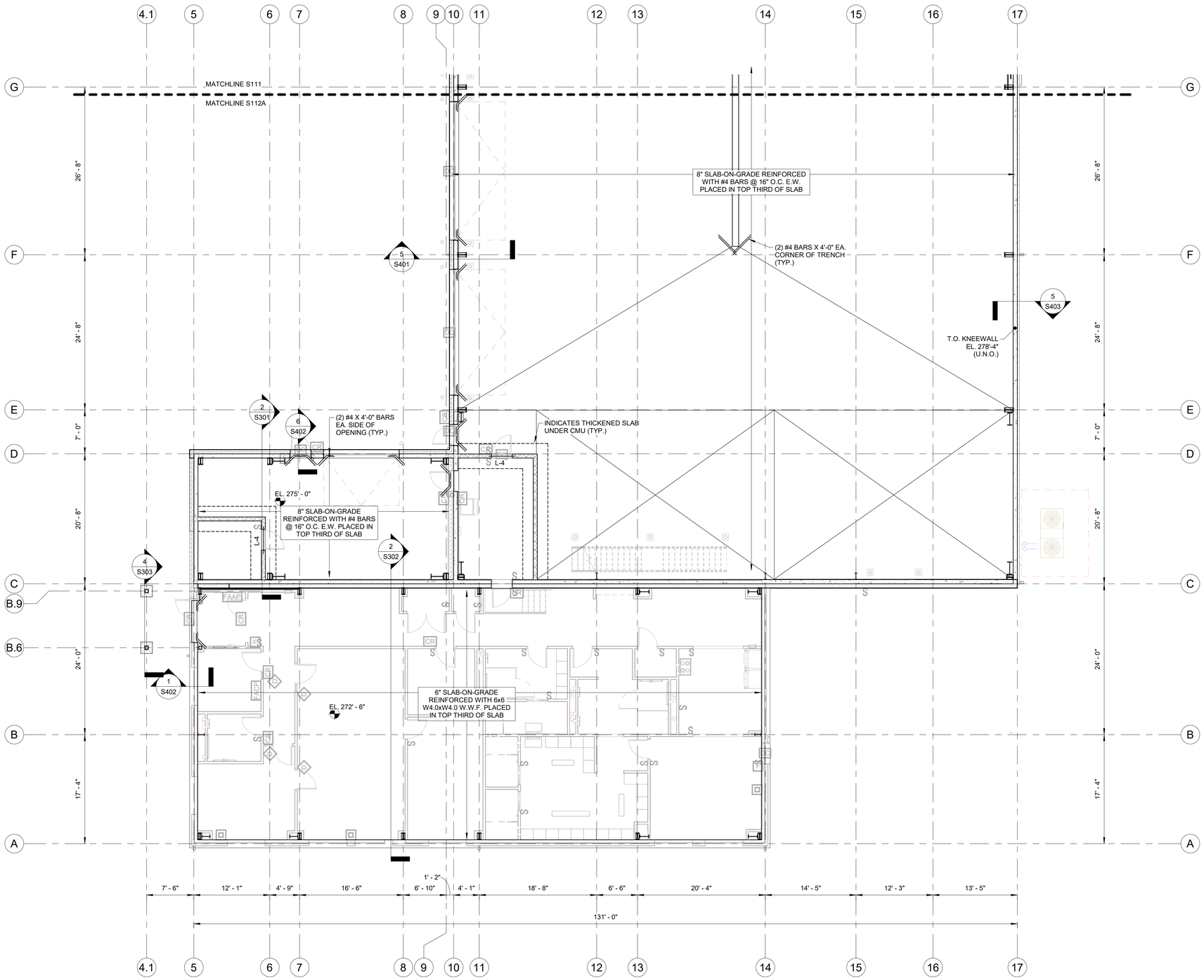

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1 SHOPS/STORAGE/ADMIN SLAB PLAN B - ALT #3

SCALE: 1/8" = 1'-0"

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RHINEBECK ARCHITECTURE

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SLAB PLAN B - ALT #3

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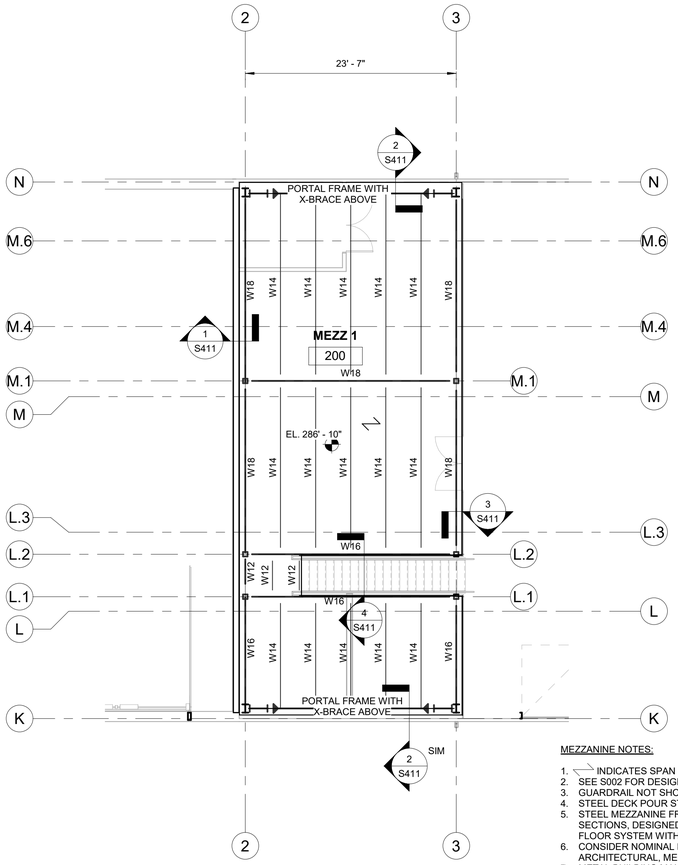
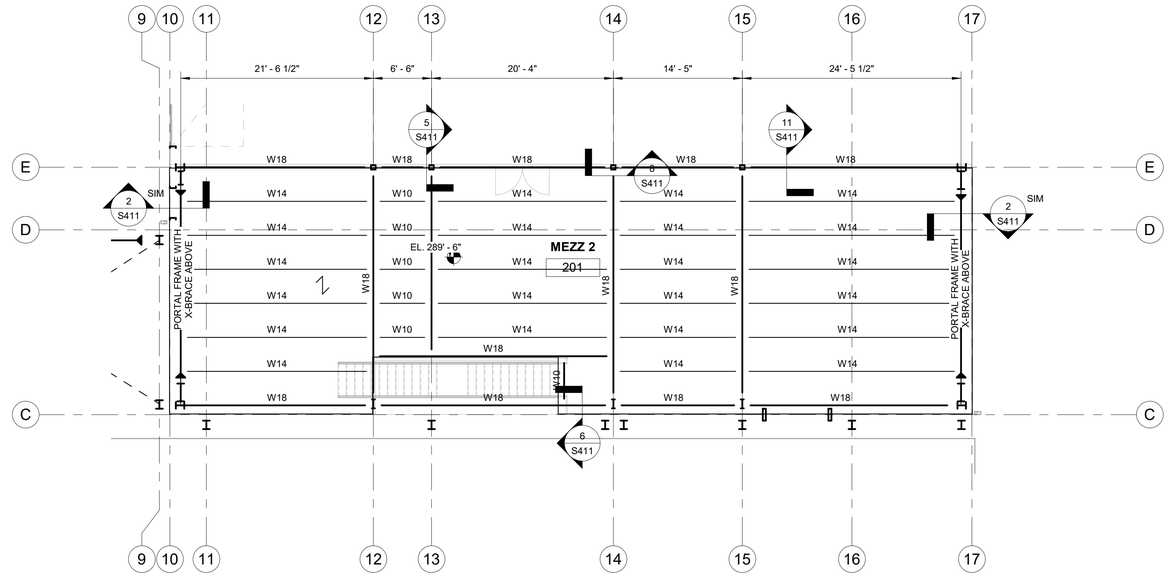
S112A





MEZZANINE NOTES:

1. INDICATES SPAN DIRECTION OF 3" N.W. CONCRETE ON 2" STEEL DECK (TOTAL THICKNESS 5").
2. SEE S002 FOR DESIGN LOADS.
3. GUARDRAIL NOT SHOWN FOR CLARITY. REFER TO ARCHITECTURAL DRAWINGS.
4. STEEL DECK POUR STOPS SHALL BE 3/8" BENT PLATE AT GUARDRAILS AND STAIR INTERFACES, UNLESS NOTED OTHERWISE.
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6. CONSIDER NOMINAL BEAM DEPTHS SHOWN (E.G. W12 = 12") TO BE MAXIMUM DEPTHS. VARY WEIGHTS AS REQUIRED BY DESIGN. COORDINATE WITH ARCHITECTURAL, MECHANICAL, ELECTRICAL, PLUMBING AND EQUIPMENT DRAWINGS.
7. METAL BUILDING MANUFACTURER TO FINALIZE BRACING LOCATIONS AND SUBMIT TO ARCHITECT/ENGINEER FOR REVIEW.
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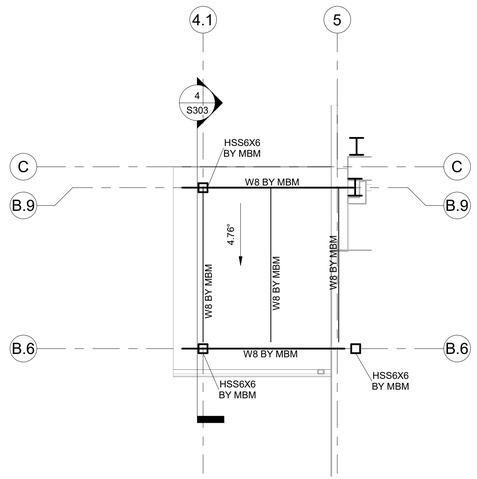
1 MEZZANINE 1 FRAMING PLAN

SCALE: 1/8" = 1'-0"

2 MEZZANINE 2 FRAMING PLAN

SCALE: 1/8" = 1'-0"



3 ADMIN ENTRANCE CANOPY FRAMING PLAN

SCALE: 1/4" = 1'-0"

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Project:

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RHINEBECK ARCHITECTURE

Seal:

STATE OF NEW YORK
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MEZZANINE FRAMING PLAN

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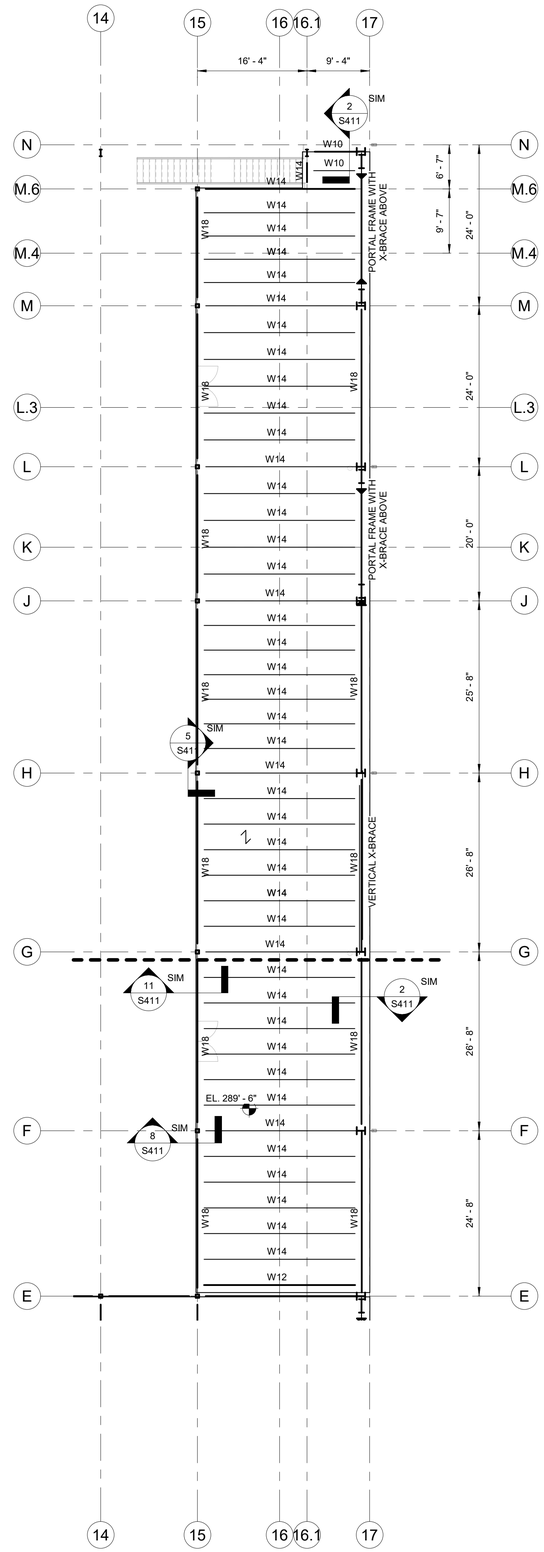

1 MEZZANINE 2A FRAMING PLAN - BID ALT #1

SCALE: 3/32" = 1'-0"

MEZZANINE NOTES:

1. INDICATES SPAN DIRECTION OF 3" N.W. CONCRETE ON 2" STEEL DECK (TOTAL THICKNESS 5").
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RHINEBECK ARCHITECTURE

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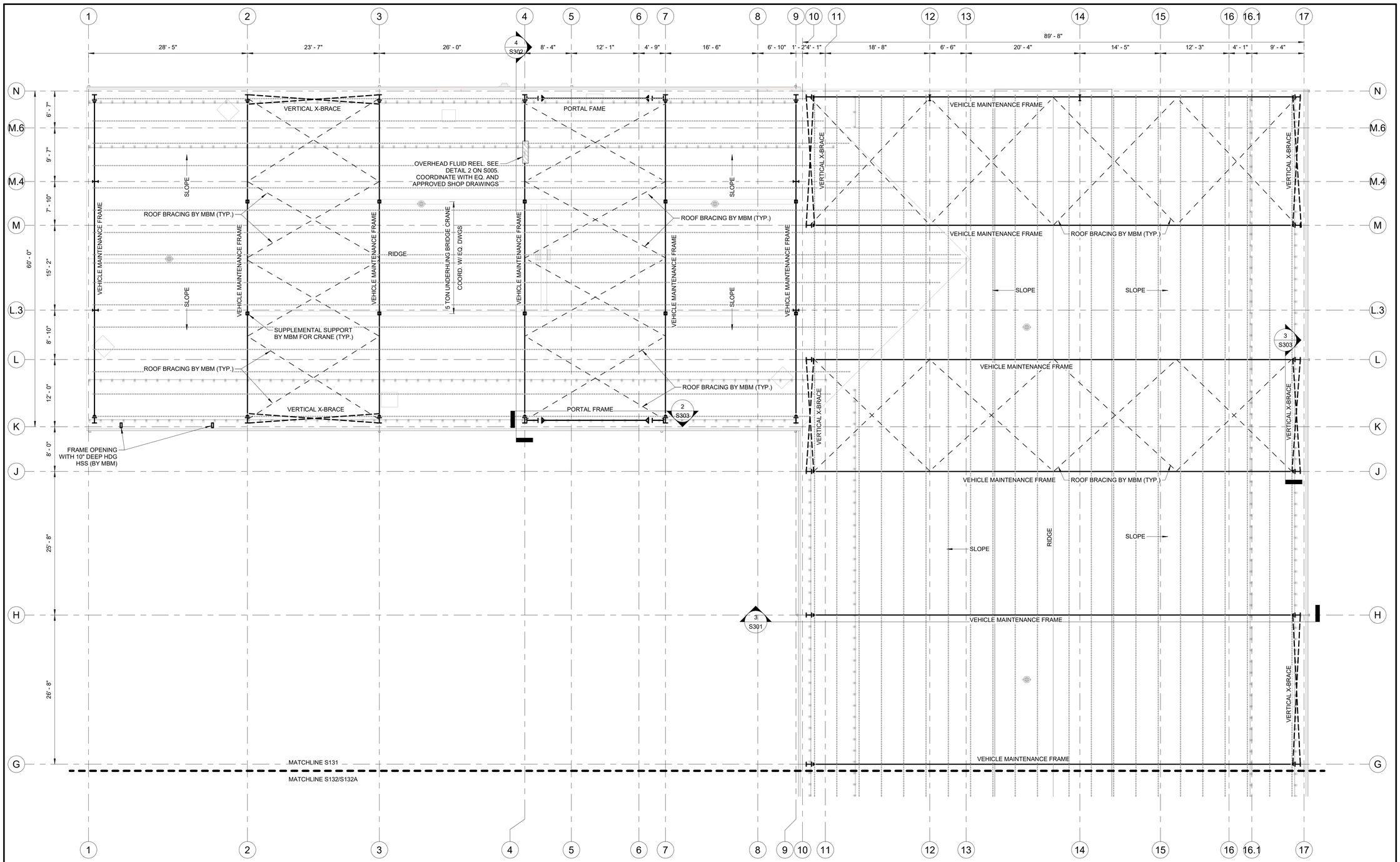
Drawing Title:

MEZZANINE FRAMING PLAN - BID ALT #1

Sheet Number:

S121A



1 ROOF FRAMING PLAN A

SCALE: 1/8" = 1'-0"

NOTES:

1. >=< INDICATES PROPOSED BRACING LOCATIONS. MBM TO SUBMIT FINAL BRACING LOCATIONS TO ENGINEER FOR REVIEW.
2. MBM TO PROVIDE ALL SUPPLEMENTAL SUPPORT/FRAMING FOR ROOF OPENINGS, ROOFTOP EQUIPMENT, ROOF SUSPENDED EQUIPMENT AND ROOF PENETRATIONS AS REQUIRED. NOT ALL SUPPLEMENTAL SUPPORT/FRAMING SHOWN ON DRAWINGS. COORDINATE QUANTITIES, WEIGHTS, AND LOCATIONS WITH ARCHITECTURAL, HVAC, PLUMBING, MECHANICAL, ELECTRICAL AND EQUIPMENT DRAWINGS.
3. ROOF PURLINS ARE SHOWN IN SCHEMATIC ONLY. QUANTITY, SPACING, LOCATIONS AND DIMENSIONS OF ROOF PURLINS SHALL BE DESIGNED AND FURNISHED BY METAL BUILDING MANUFACTURER.
4. ALL STEEL HARDWARE LOCATED IN THE WASH BAY AND CANOPY SHALL BE HOT DIPPED GALVANIZED IN ACCORDANCE WITH ASTM 125, ASTM 153, AND ASTM A653 G185 (AS APPLICABLE).
5. MBM TO PROVIDE FRAMING MEMBERS TO SUPPORT EXTERIOR COLD-FORMED METAL FRAMING.

FOR BIDDING
NOT FOR CONSTRUCTION

Project:

ARDSLEY DEPARTMENT OF PUBLIC WORKS

VILLAGE OF ARDSLEY, NY

220 HEATHERDELL ROAD
VILLAGE OF ARDSLEY,
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RHINEBECK ARCHITECTURE

Seal:

STATE OF NEW YORK · JEFFERY FRASER BURNS · 083485 · LICENSED PROFESSIONAL ENGINEER

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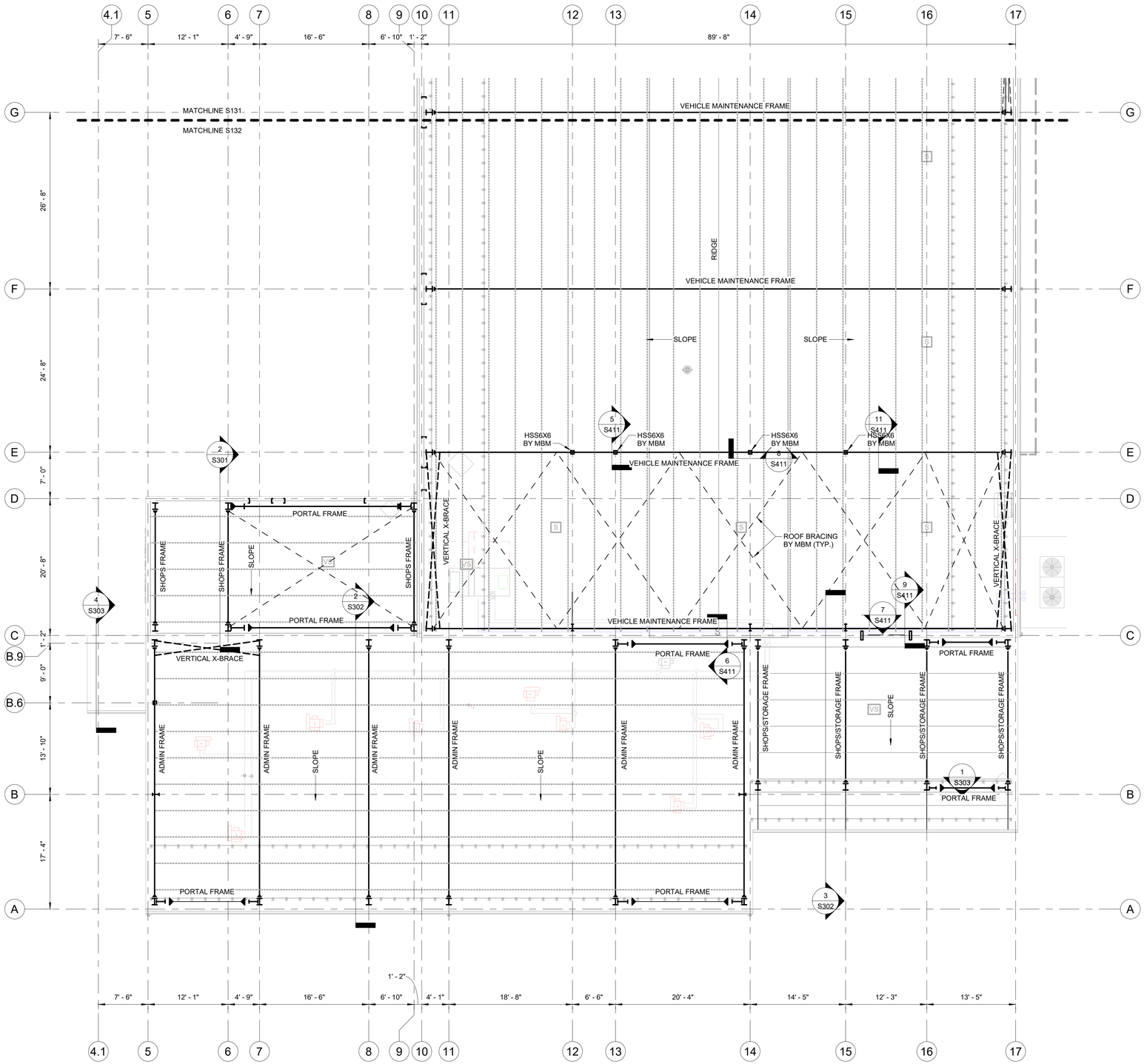
Reviewed By:	NMS
Approved By:	JFB
W&S Project No:	ENG20-0501

Drawing Title:

ROOF FRAMING PLAN A

Sheet Number:

S131



NOTES:
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1 ROOF FRAMING PLAN B
SCALE: 1/8" = 1'-0"

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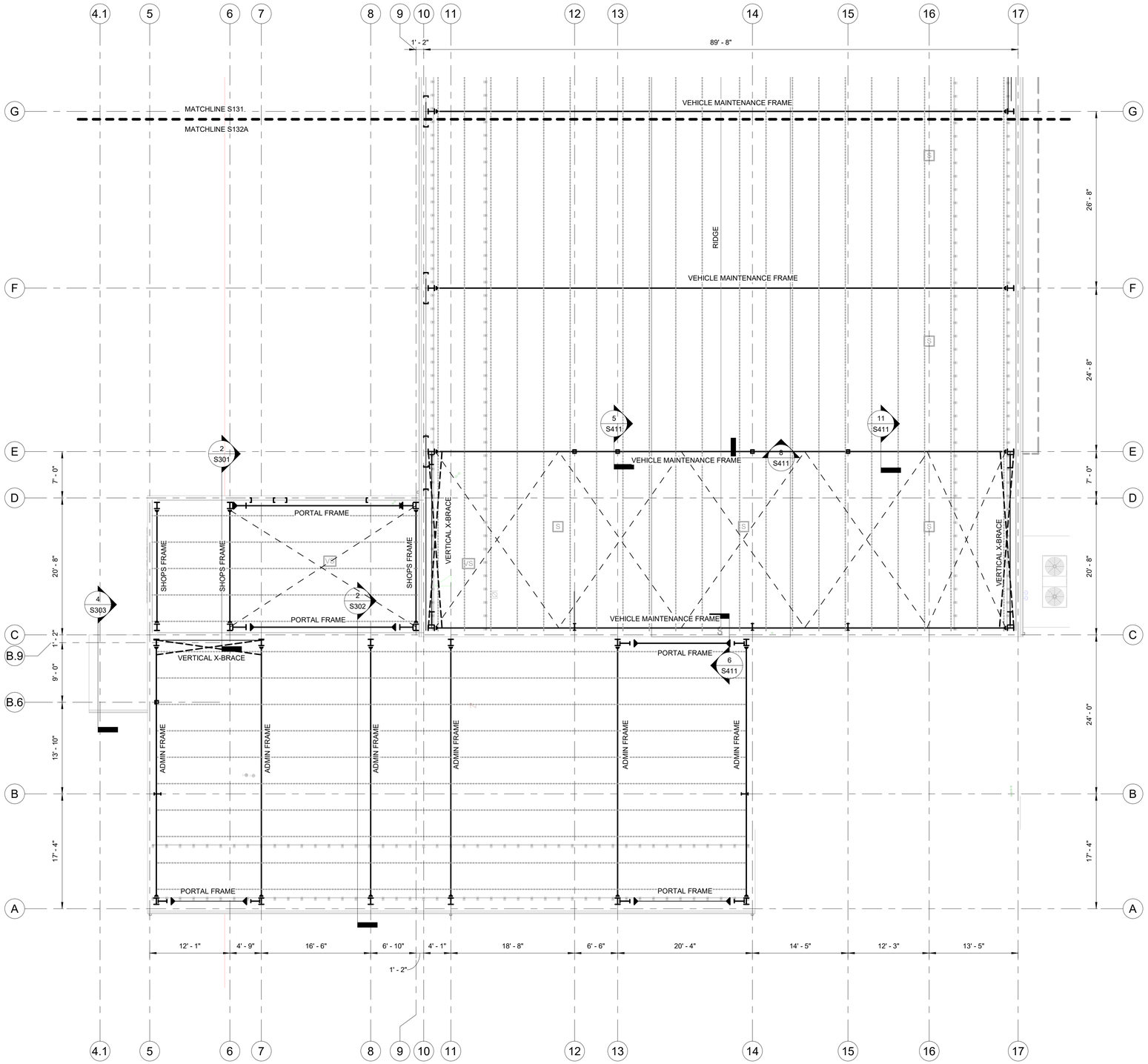
Drawing Title:
ROOF FRAMING PLAN B

Sheet Number:
S132



1 ROOF FRAMING PLAN B - ALT

SCALE: 1/8" = 1'-0"

NOTES:

1. >><< INDICATES PROPOSED BRACING LOCATIONS. MBM TO SUBMIT FINAL BRACING LOCATIONS TO ENGINEER FOR REVIEW.
2. MBM TO PROVIDE ALL SUPPLEMENTAL SUPPORT/FRAMING FOR ROOF OPENINGS, ROOFTOP EQUIPMENT, ROOF SUSPENDED EQUIPMENT AND ROOF PENETRATIONS AS REQUIRED. NOT ALL SUPPLEMENTAL SUPPORT/FRAMING SHOWN ON DRAWINGS. COORDINATE QUANTITIES, WEIGHTS, AND LOCATIONS WITH ARCHITECTURAL, HVAC, PLUMBING, MECHANICAL, ELECTRICAL AND EQUIPMENT DRAWINGS.
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5. MBM TO PROVIDE FRAMING MEMBERS TO SUPPORT EXTERIOR COLD-FORMED METAL FRAMING.

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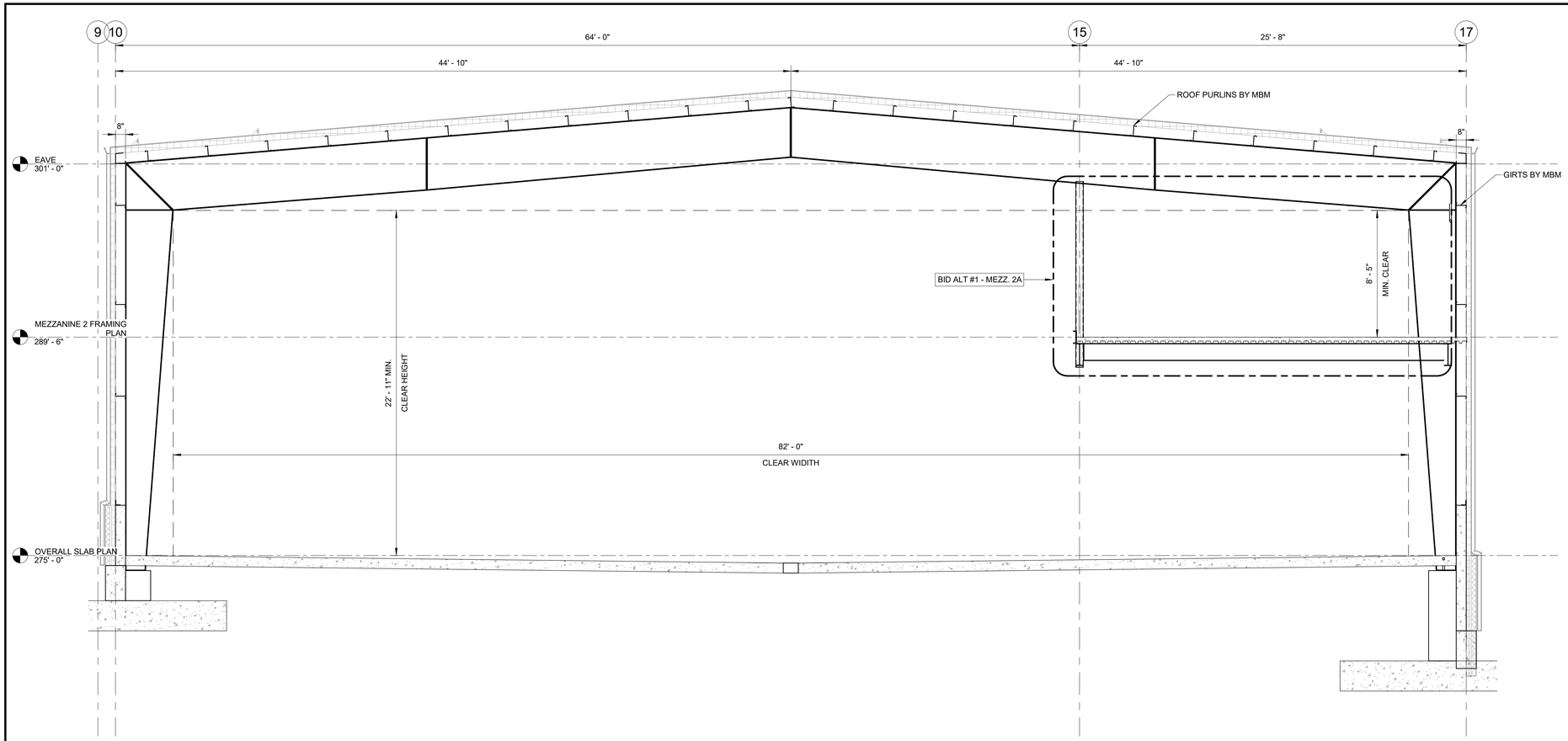
Drawing Title:

ROOF FRAMING PLAN B - ALT #3

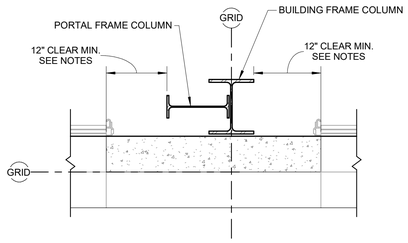
Sheet Number:

S132A



3 VEHICLE STORAGE FRAME ELEVATION WITH BID ALT #1

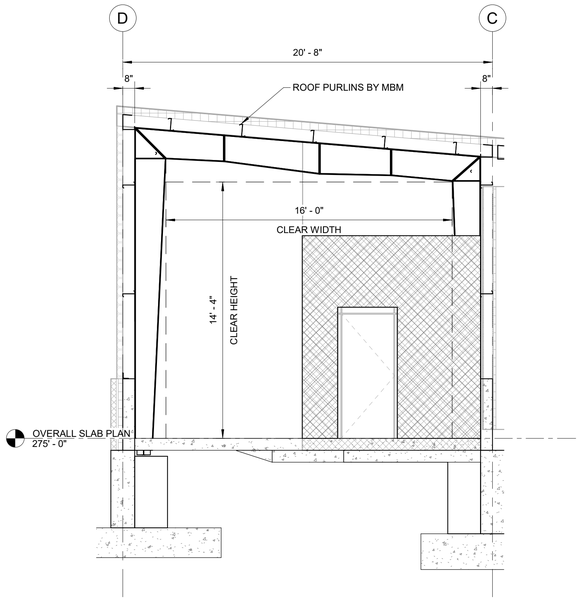
SCALE: 1/4" = 1'-0"



NOTES:
1. PROVIDE MINIMUM CLEARANCES AS SHOWN AT OVERHEAD AND MAN DOORS. CLEARANCES MAY BE REDUCED TO 6 INCHES ADJACENT TO WINDOWS AND TRANSLUCENT PANELS.
2. COORDINATE CLEARANCES WITH ARCHITECTURAL AND EQUIPMENT DRAWINGS.

1 TYPICAL PORTAL FRAME CLEARANCES

SCALE: 3/4" = 1'-0"



2 SHOPS FRAME ELEVATION

SCALE: 1/4" = 1'-0"

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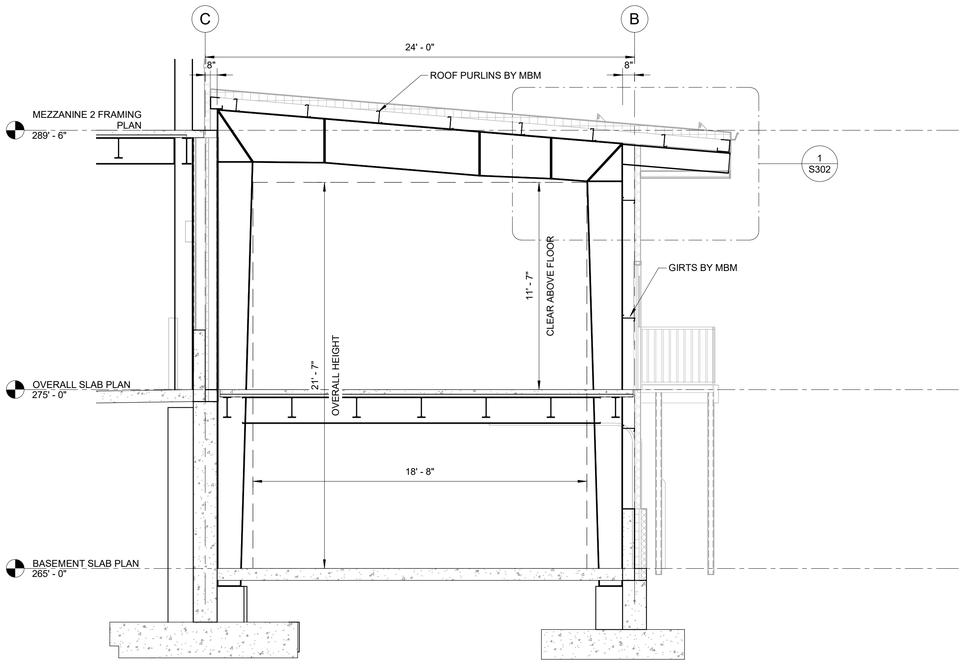
Drawing Title:

TYPICAL FRAME ELEVATIONS I

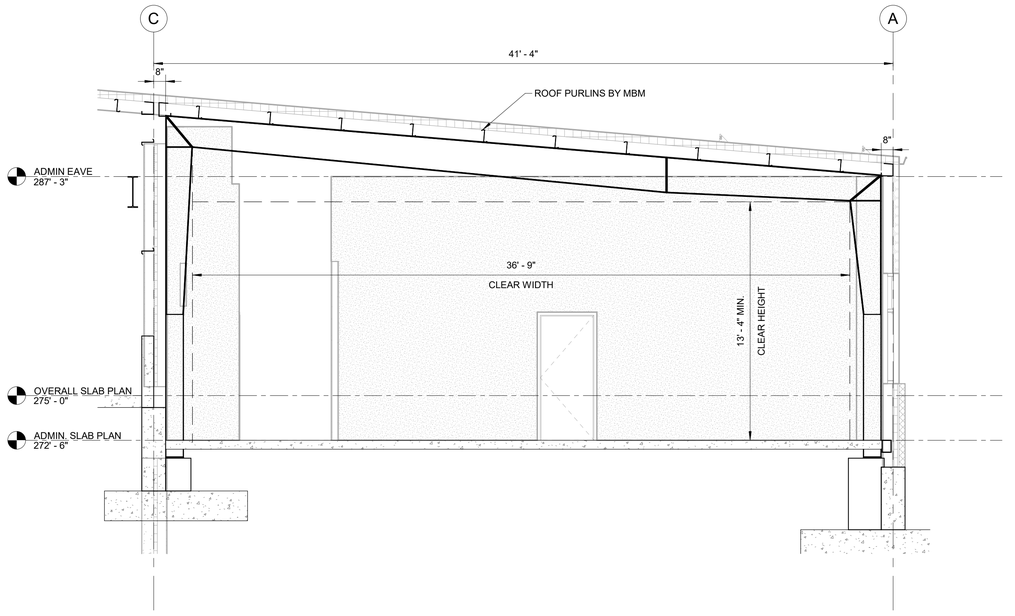
Sheet Number:

S301



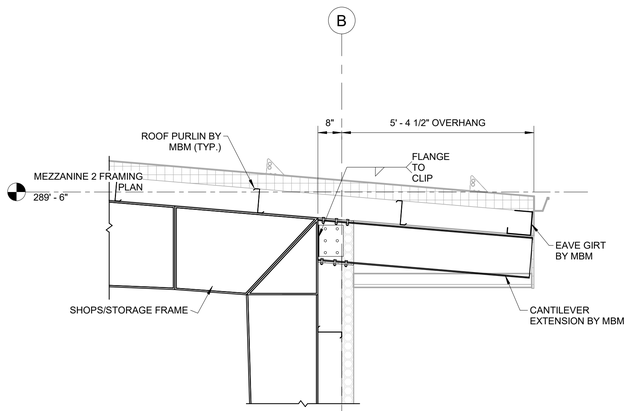
3 SHOPS/STORAGE FRAME ELEVATION

SCALE: 1/4" = 1'-0"



2 ADMIN FRAME ELEVATION

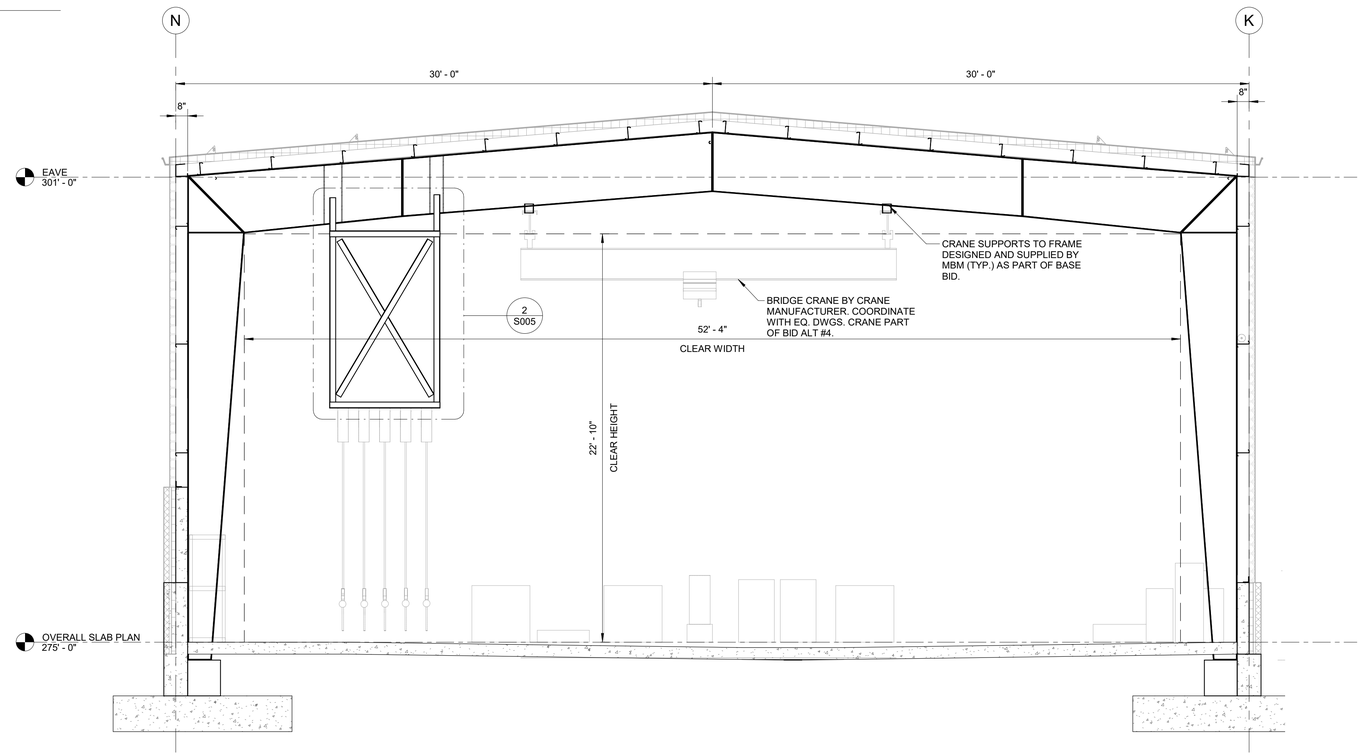
SCALE: 1/4" = 1'-0"



NOTE:
1. ALL STEEL SHALL BE HOT-DIP GALVANIZED IN ACCORDANCE WITH ASTM A123 AND ALL HARDWARE SHALL BE HOT-DIP GALVANIZED IN ACCORDANCE WITH ASTM 153.

1 SHOPS/STORAGE FRAME OVERHANG DETAIL

SCALE: 1/2" = 1'-0"



NOTE:
1. ALL STEEL HARDWARE LOCATED IN THE WASH BAY SHALL BE HOT DIPPED GALVANIZED IN ACCORDANCE WITH ASTM 125, ASTM 153, AND ASTM A663 G185 (AS APPLICABLE).

4 VEHICLE MAINTENANCE FRAME ELEVATION

SCALE: 1/4" = 1'-0"

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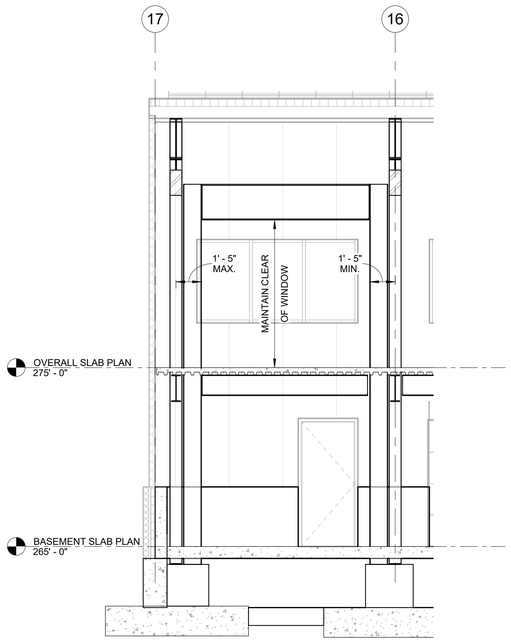
Drawing Title:

TYPICAL FRAME ELEVATIONS II

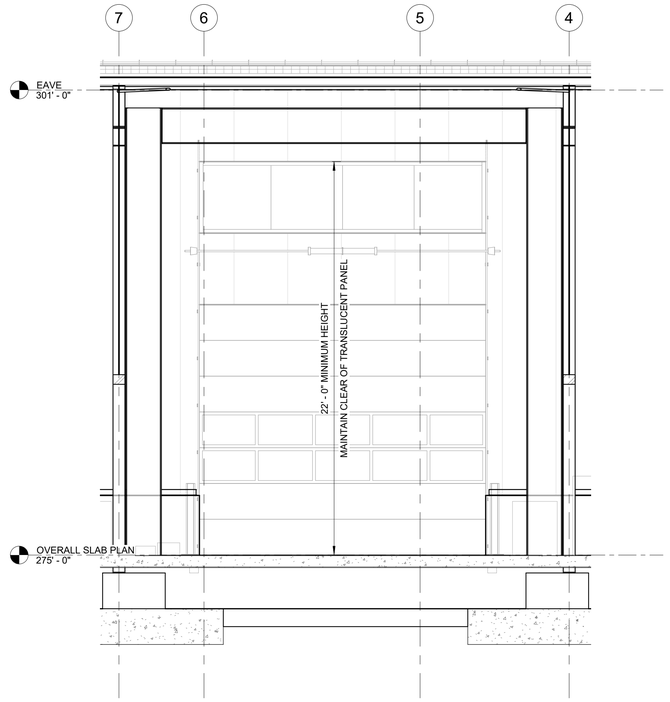
Sheet Number:

S302



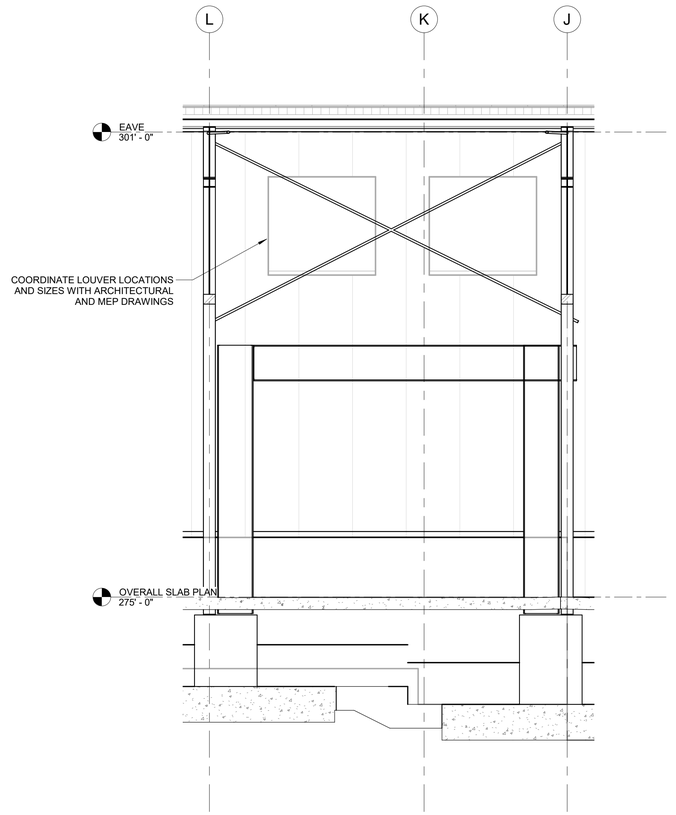
1 PORTAL FRAME ELEVATION @ SHOP/STORAGE

SCALE: 1/4" = 1'-0"



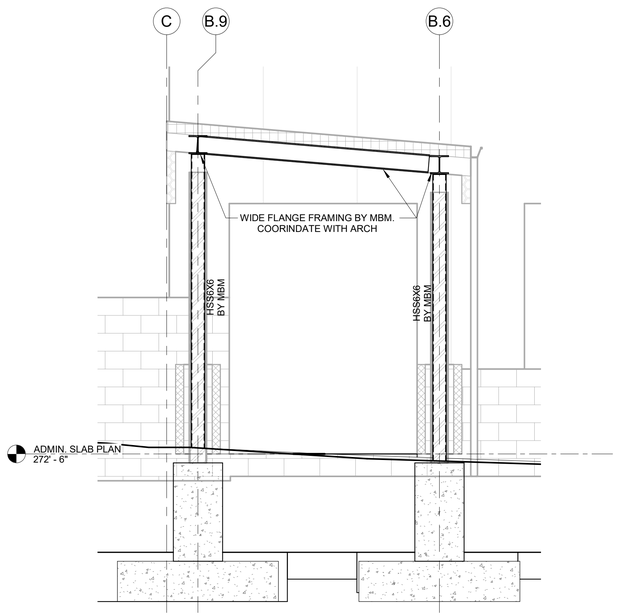
2 PORTAL FRAME ELEVATION @ VEHICLE MAINT.

SCALE: 1/4" = 1'-0"



3 TYP. PORTAL FRAME ELEVATION @ VEHICLE STORAGE

SCALE: 1/4" = 1'-0"



NOTE:
1. ALL STEEL HARDWARE LOCATED IN THE VESTIBULE SHALL BE HOT DIPPED GALVANIZED IN ACCORDANCE WITH ASTM 125, ASTM 153, AND ASTM A663 G185 (AS APPLICABLE).

4 SECTION I @ VESTIBULE

SCALE: 3/8" = 1'-0"

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Drawing Title:

TYPICAL FRAME ELEVATIONS II

Sheet Number:

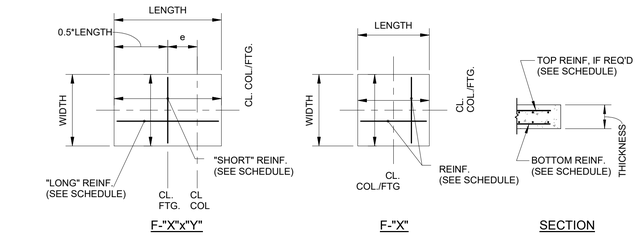
S303

FOOTING SCHEDULE

MARK	DIMENSIONS			REINFORCEMENT		TOP REINFORCEMENT
	WIDTH [FT.]	LENGTH [FT.]	THICKNESS [IN.]	LONG WAY	SHORT WAY	
F6	6.0	6.0	18	(7) #5	(7) #5	#5 @ 12" O.C.
F10X6	6.0	10.0	20	(7) #5	(11) #8	#5 @ 12" O.C.
F8	8.0	8.0	20	(9) #7	(9) #7	#5 @ 12" O.C.
F9	9.0	9.0	22	(10) #7	(10) #7	#5 @ 12" O.C.
F10	10.0	10.0	24	(11) #8	(11) #8	#5 @ 12" O.C.
F8x12	12.0	8.0	24	(9) #7	(13) #8	#5 @ 12" O.C.
F12	12.0	12.0	24	(13) #8	(13) #8	#5 @ 12" O.C.
F14	14.0	14.0	24	(15) #8	(15) #8	#5 @ 12" O.C.
F15x12	15.0	12.0	24	(13) #8	(16) #8	#5 @ 12" O.C.

FOOTING NOTE(S):

1. SQUARE FOOTINGS SHALL BE CENTERED BELOW COLUMNS U.N.O.
2. RECTANGULAR FOOTINGS SHALL BE ORIENTED AS SHOWN IN PLAN, U.N.O.
3. FOOTINGS SIZES ARE FOR BID PURPOSES ONLY. SIZES WILL BE VERIFIED UPON APPROVAL OF METAL BUILDING SHOP DRAWINGS. FOOTINGS SHALL NOT BE CAST UNTIL METAL BUILDING SHOP DRAWINGS ARE APPROVED AND FOOTINGS SIZES ARE VERIFIED BY THE ENGINEER.
4. WHERE FOOTING INTERSECT IN PLAN, FOOTING SHALL BE CAST INTEGRAL WITH THE REINFORCING AS SPECIFIED IN THE TABLE ABOVE.



F-"X"x"Y" F-"X" SECTION

1 FOOTING SCHEDULE (METAL BUILDING)

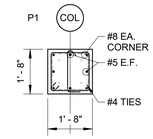
SCALE: 1/4" = 1'-0"

PIER SCHEDULE

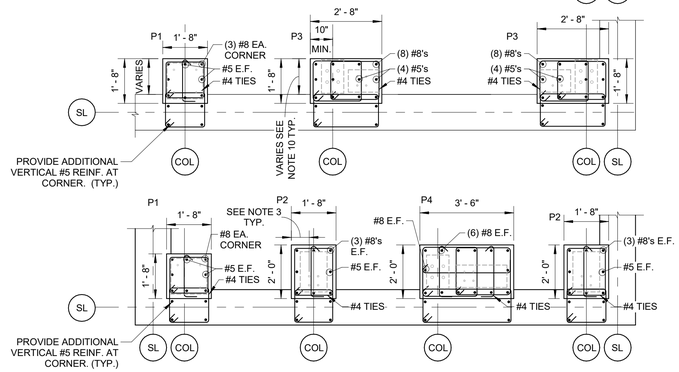
MARK	DIMENSIONS		T.O. PIER ELEVATION	REINFORCEMENT		COMMENTS
	WIDTH [IN.]	LENGTH [IN.]		VERTICAL	TIES	
P1	20	20	-1' - 0"	(4) #8'S, (4) #5'S	#4 @ 12" O.C.	(6) #4 TIES IN TOP 12"
P2	20	24	-1' - 0"	(6) #8'S, (2) #5'S	#4 @ 12" O.C.	(6) #4 TIES IN TOP 12"
P3	20	32	-1' - 0"	(8) #8'S, (4) #5'S	#4 @ 12" O.C.	(6) #4 TIES IN TOP 12"
P4	24	42	-1' - 0"	(14) #8'S	#4 @ 12" O.C.	(6) #4 TIES IN TOP 12"

NOTE(S):

1. FINAL LOCATIONS OF PIERS SHALL BE COORDINATED WITH APPROVED METAL BUILDING SHOP DRAWINGS. PIERS SHALL BE CENTERED BELOW COLUMN SECTION AT THE BASE PLATE LEVEL.
2. METAL BUILDING BASE PLATES SHALL BE DESIGNED TO FIT ON AND WITHIN PIER DIMENSIONS SHOWN ABOVE. ANY PIER MODIFICATIONS WILL BE AT COST OF THE CONTRACTOR. THE CONTRACTOR SHALL IDENTIFY ANY PIERS REQUIRING MODIFICATIONS AND SUBMIT TO THE ENGINEER FOR REVIEW.
3. ANCHOR RODS SHALL RESIDE WITHIN REINFORCING TIES AND SHALL BE A MINIMUM OF 7xBOLT DIAMETER FROM EDGE OF PILASTER / FOUNDATION. FINAL ANCHOR BOLT LAYOUT BY METAL BUILDING MANUFACTURER. SEE ANCHOR BOLT SCHEDULE ON S003 FOR REQUIRED EMBEDMENT DEPTHS. CONTRACTOR/MBM SHALL IDENTIFY PIERS WHERE THIS CRITERIA IS NOT MET.
4. PROVIDE INVERTED #6 U-BARS TO MATCH VERTICAL REINFORCING. VERTICAL LEG TO BE 36" LONG OR FULL DEPTH OF PIER, WHICHEVER IS LESS.
5. WALL REINFORCING SHALL PASS CONTINUOUSLY THROUGH THE PIER.
6. TIES SHALL BE #4 @ 12" VERTICALLY WITH 6 TIES LOCATED WITHIN THE TOP 12" ON THE PIER, UNLESS OTHERWISE NOTED.
7. PEDESTALS ARE DEFINED AS SET INTEGRAL WITH A WALL, PIERS ARE PEDESTALS WHICH STAND ALONE.
8. PIERS SUPPORTING PORTAL FRAMES ARE TURNED 90 DEGREES IN PLAN, SEE PLAN FOR REQUIRED ORIENTATIONS.
9. MEZZANINE COLUMNS MAY BE OFFSET FROM THE FOUNDATION WALL AS APPROVED BY THE ENGINEER TO ACCOMMODATE FRAMING REQUIREMENTS.
10. CENTER PIER BENEATH BASEPLATE. PIER OVERLAP WITH FOUNDATION WALL MAY VARY BASED ON BASEPLATE LOCATION. PIER REINFORCING MUST BE CENTERED UNDER BASEPLATE AND MEET COVER REQUIREMENTS ON S001.
11. T.O. PIER ELEVATION INDICATES RELATIVE ELEVATION TO TOP OF CONCRETE SLAB.



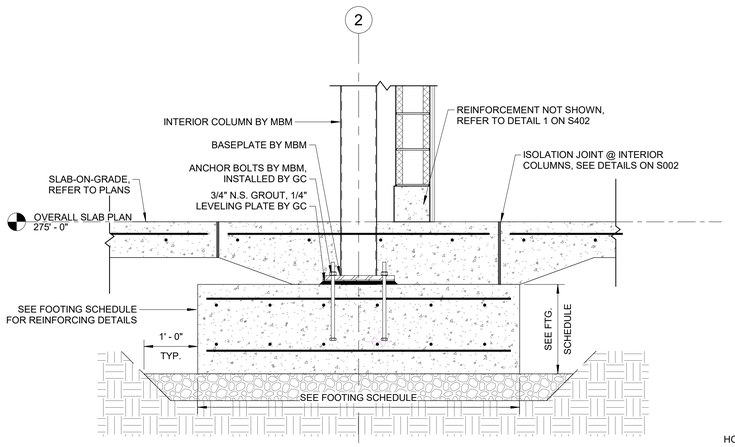
INTERIOR COLUMN PIERS



EXTERIOR COLUMN PIERS

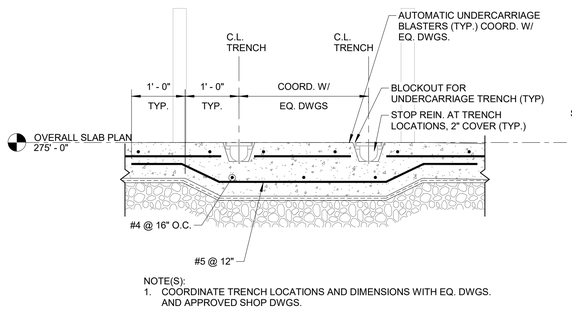
2 PIER DETAIL (METAL BUILDING)

SCALE: 3/8" = 1'-0"



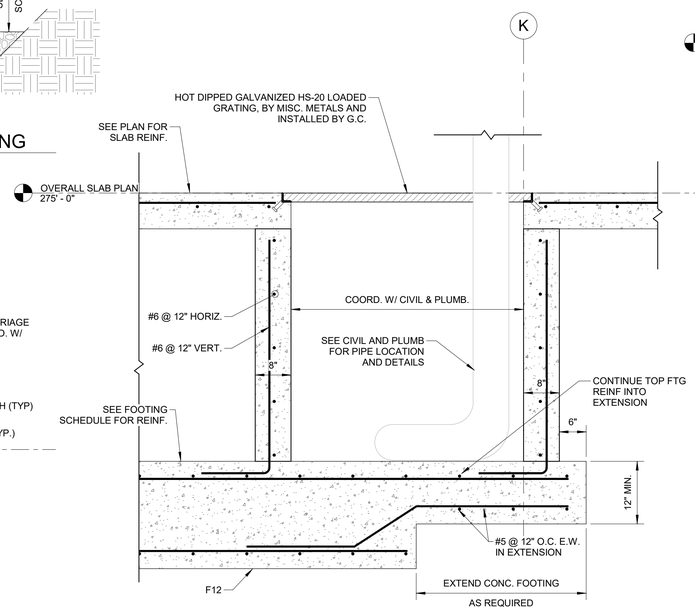
4 SECTION @ INTERIOR ISOLATED FOOTING

SCALE: 3/4" = 1'-0"



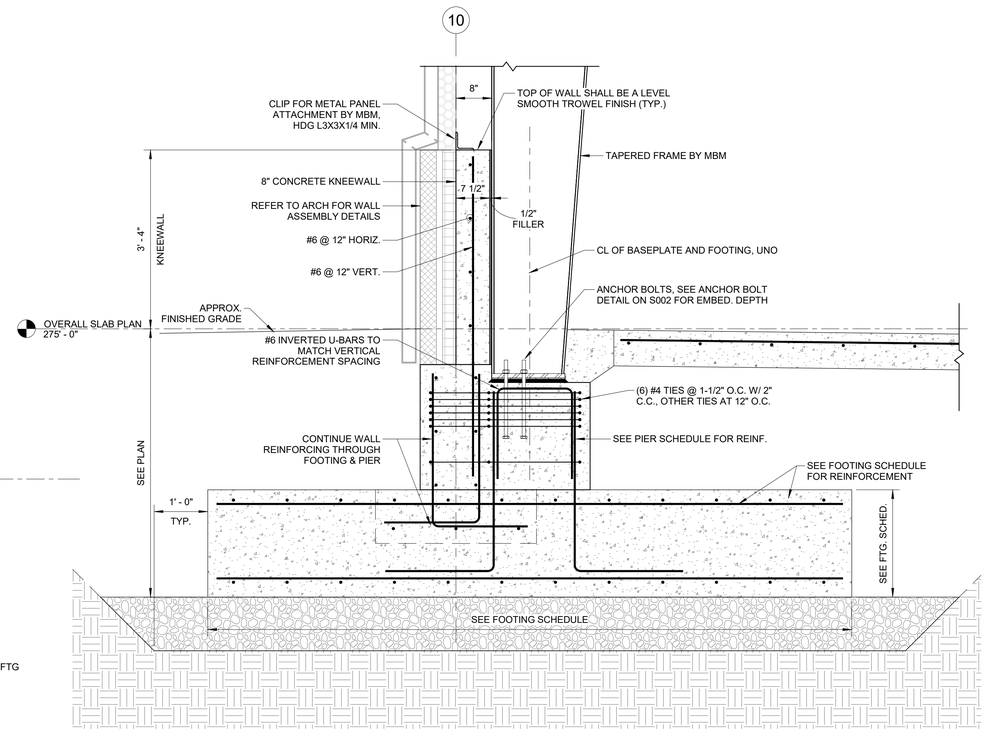
6 SECTION @ UNDERCARRIAGE WASH

SCALE: 3/4" = 1'-0"



3 FOUNDATION SECTION @ WATER MAIN PIT

SCALE: 3/4" = 1'-0"



5 TYPICAL SECTION @ PIER

SCALE: 3/4" = 1'-0"

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Project:

ARDSLEY DEPARTMENT OF PUBLIC WORKS

VILLAGE OF ARDSLEY, NY

220 HEATHERDELL ROAD
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RHINEBECK ARCHITECTURE

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Reviewed By:	NMS
Approved By:	JFB
W&S Project No:	ENG20-0501

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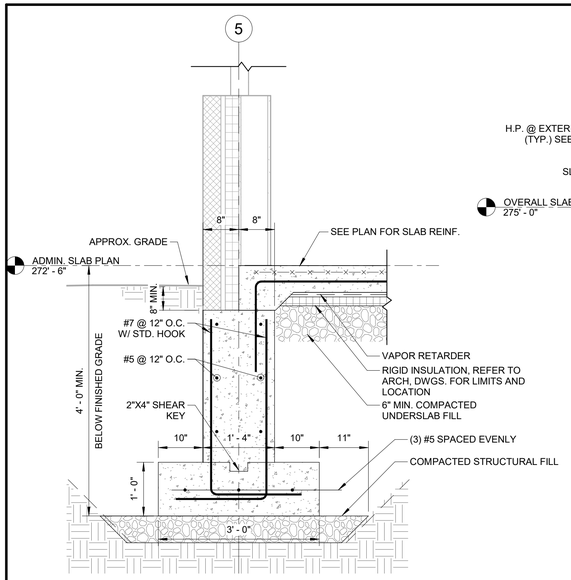
FOUNDATION SECTIONS & DETAILS I

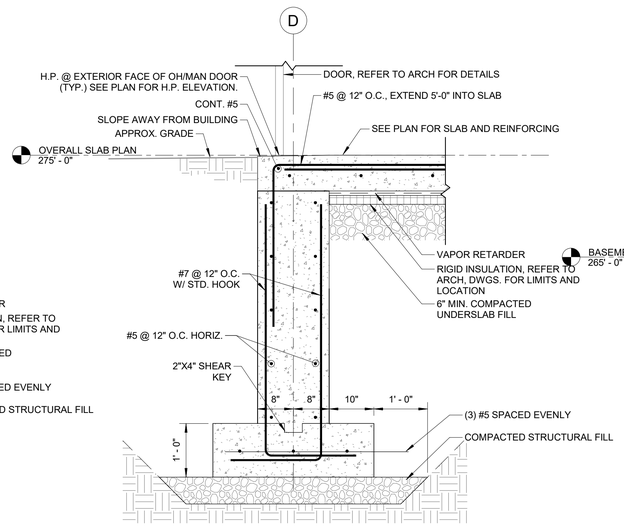
Sheet Number:

S401



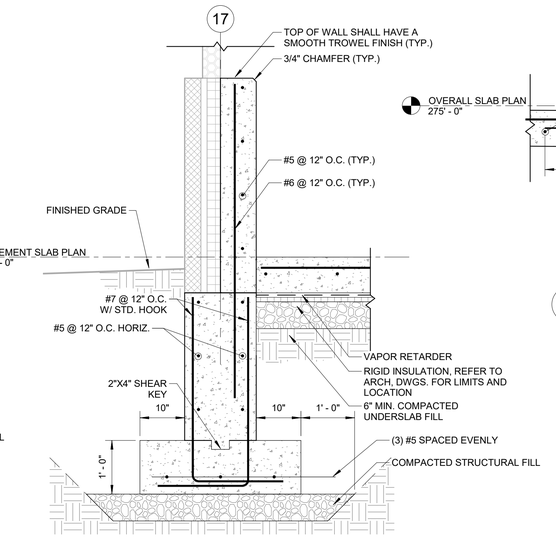
1 SECTION @ ADMINISTRATION

SCALE: 3/4" = 1'-0"



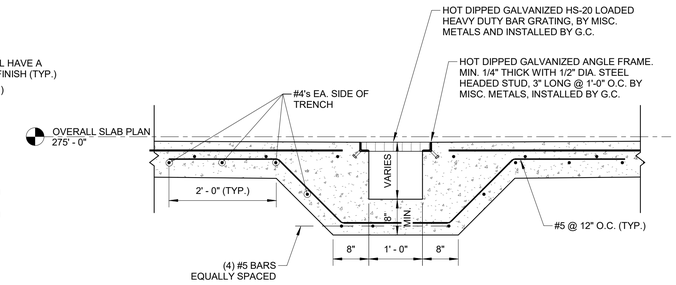
6 TYP FOUNDATION SECTION @ DOOR

SCALE: 3/4" = 1'-0"



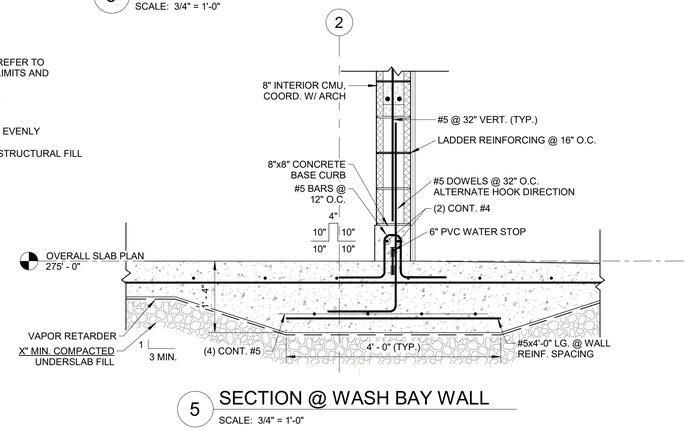
7 FOUNDATION SECTION @ BASEMENT

SCALE: 3/4" = 1'-0"



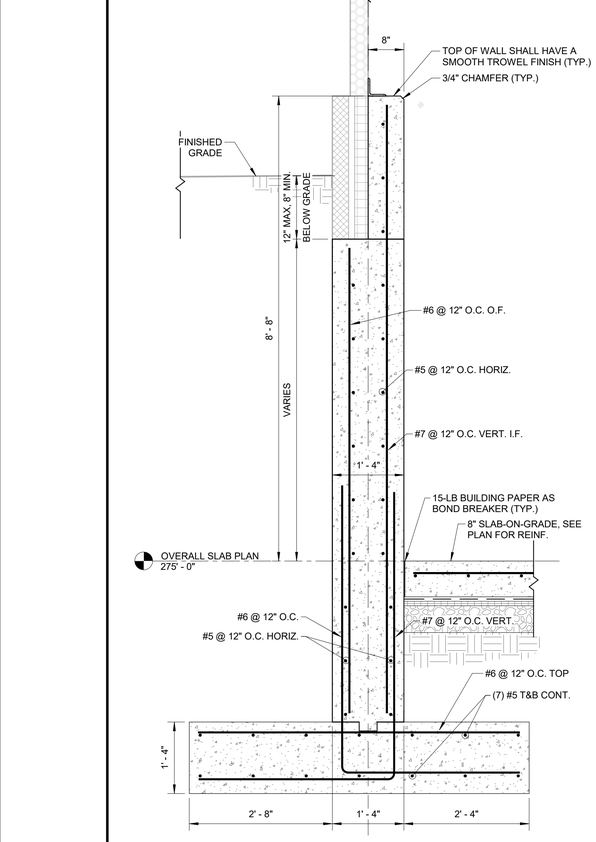
3 SECTION @ TRENCH DRAIN IN WASH BAY

SCALE: 3/4" = 1'-0"



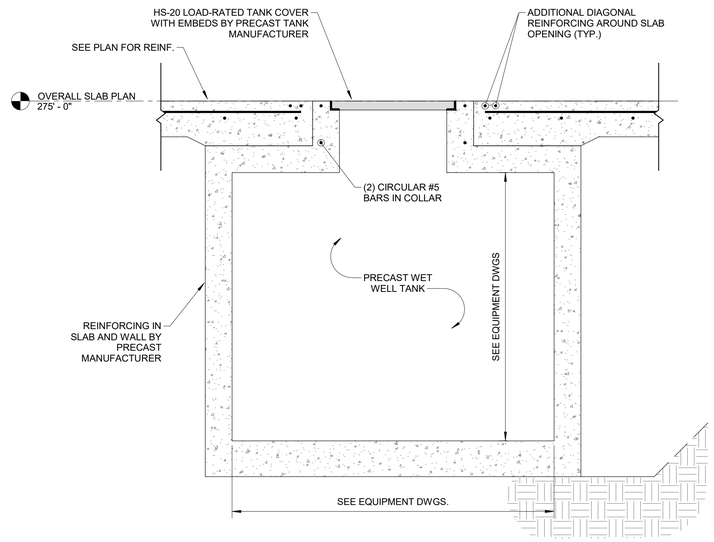
5 SECTION @ WASH BAY WALL

SCALE: 3/4" = 1'-0"



8 SECTION @ RETAINING KNEEWALL

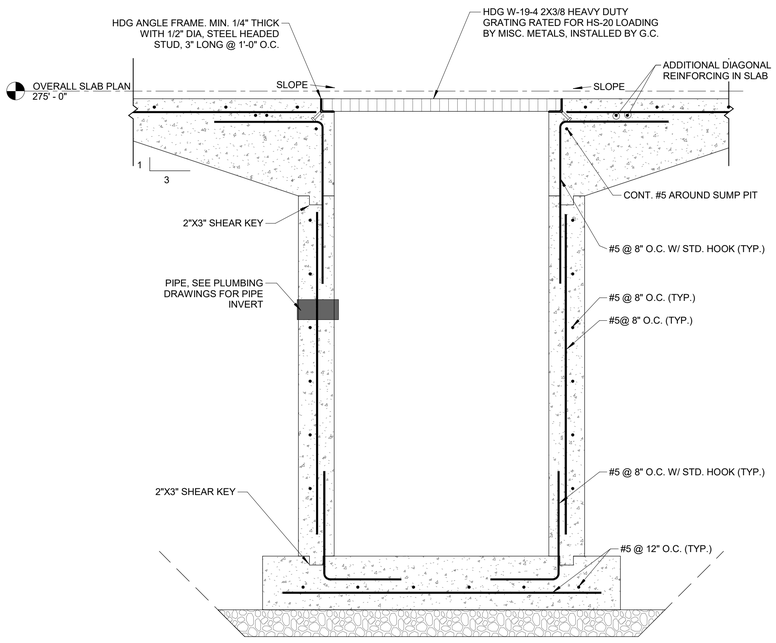
SCALE: 3/4" = 1'-0"



NOTE(S):
1. REFER TO EQ. DRAWINGS FOR DETAILS

2 SECTION @ PRE-TREATMENT TANK

SCALE: 3/4" = 1'-0"



4 SECTION @ WASH BAY SUMP

SCALE: 3/4" = 1'-0"

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RHINEBECK ARCHITECTURE

Seal:

STATE OF NEW YORK · JEFFERY FRASER RUSSELL · 083685 · LICENSED PROFESSIONAL ENGINEER

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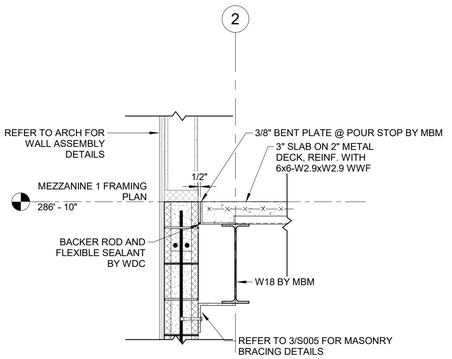
FOUNDATION SECTIONS & DETAILS II

Sheet Number:

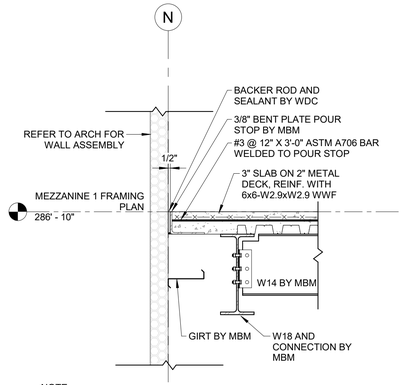
S402



NOTE:
1. REFER TO 2/S004 "TYPICAL COMPOSITE DECK DETAIL" FOR ADDITIONAL REQUIREMENTS.

1 MEZZANINE SECTION @ WASH BAY WALL

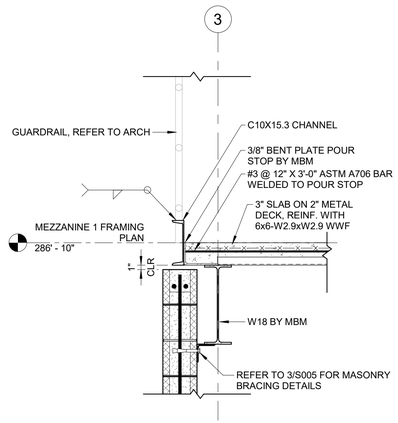
SCALE: 3/4" = 1'-0"



NOTE:
1. REFER TO 2/S004 "TYPICAL COMPOSITE DECK DETAIL" FOR ADDITIONAL REQUIREMENTS.

2 TYP. MEZZ. SECTION @ EXTERIOR WALL

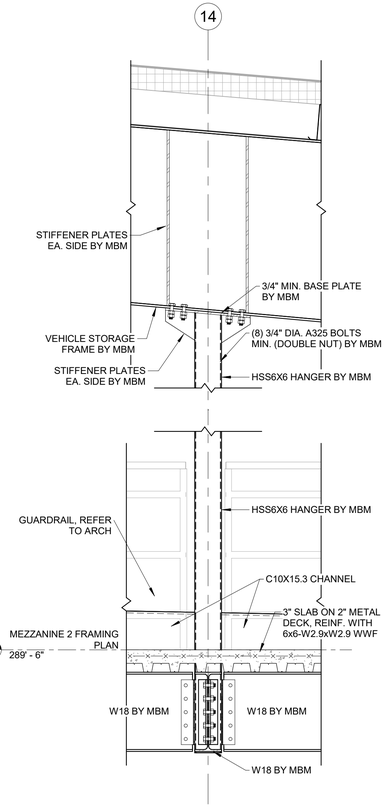
SCALE: 3/4" = 1'-0"



NOTE:
1. REFER TO 2/S004 "TYPICAL COMPOSITE DECK DETAIL" FOR ADDITIONAL REQUIREMENTS.

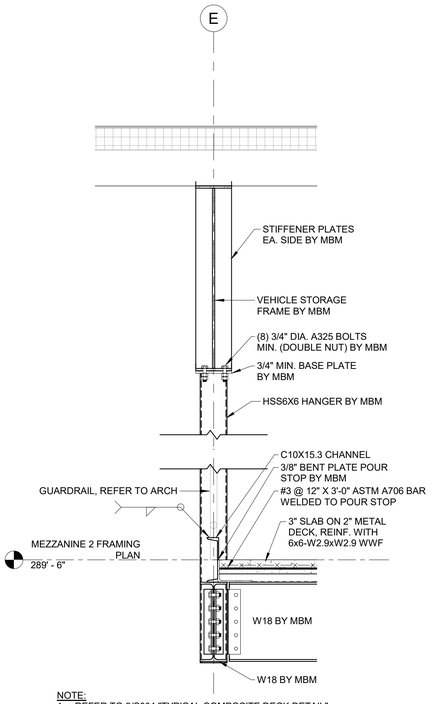
3 TYPICAL MEZZANINE SECTION I

SCALE: 3/4" = 1'-0"



8 TYP. MEZZ. HANGER DETAIL I

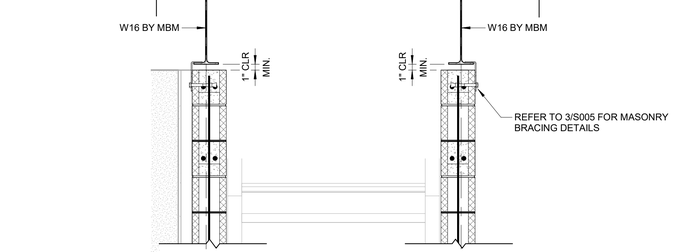
SCALE: 3/4" = 1'-0"



NOTE:
1. REFER TO 2/S004 "TYPICAL COMPOSITE DECK DETAIL" FOR ADDITIONAL REQUIREMENTS.

5 TYP. MEZZ. HANGER DETAIL II

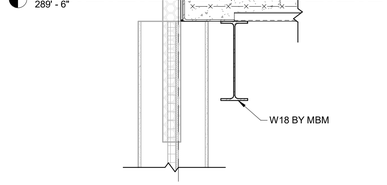
SCALE: 3/4" = 1'-0"



NOTE:
1. REFER TO 2/S004 "TYPICAL COMPOSITE DECK DETAIL" FOR ADDITIONAL REQUIREMENTS.

4 MEZZ 1 SECTION @ STAIR

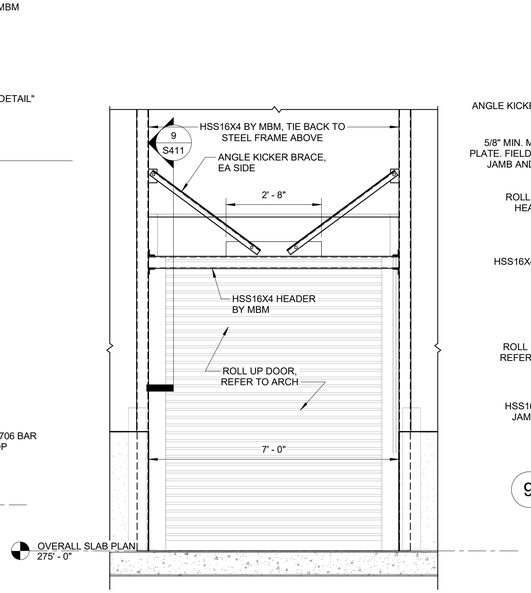
SCALE: 3/4" = 1'-0"



NOTE:
1. REFER TO 2/S004 "TYPICAL COMPOSITE DECK DETAIL" FOR ADDITIONAL REQUIREMENTS.

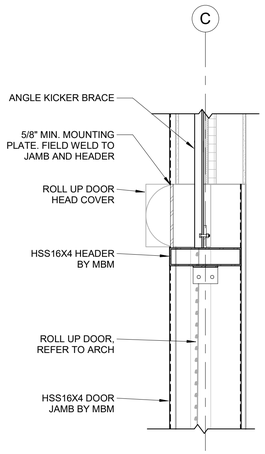
6 SECTION @ MEZZ. 2

SCALE: 3/4" = 1'-0"



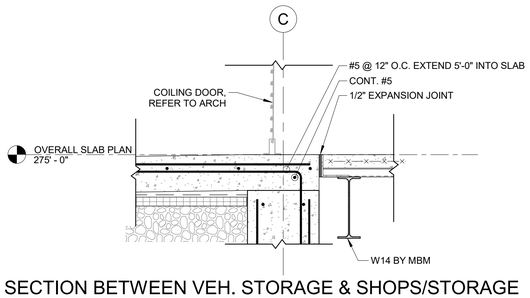
7 ROLL UP DOOR FRAMING ELEVATION

SCALE: 1/2" = 1'-0"



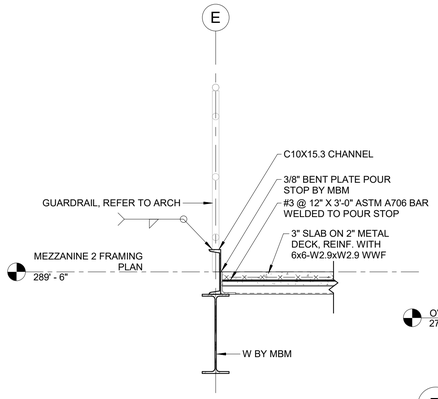
9 SECTION @ ROLL UP DOOR

SCALE: 3/4" = 1'-0"



10 SECTION BETWEEN VEH. STORAGE & SHOPS/STORAGE

SCALE: 3/4" = 1'-0"



NOTE:
1. REFER TO 2/S004 "TYPICAL COMPOSITE DECK DETAIL" FOR ADDITIONAL REQUIREMENTS.

11 TYP. SECTION @ EDGE OF MEZZ.

SCALE: 3/4" = 1'-0"

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Seal:

STATE OF NEW YORK — JEFFERY FRASER SCHOCK — 083485 — PROFESSIONAL ENGINEER

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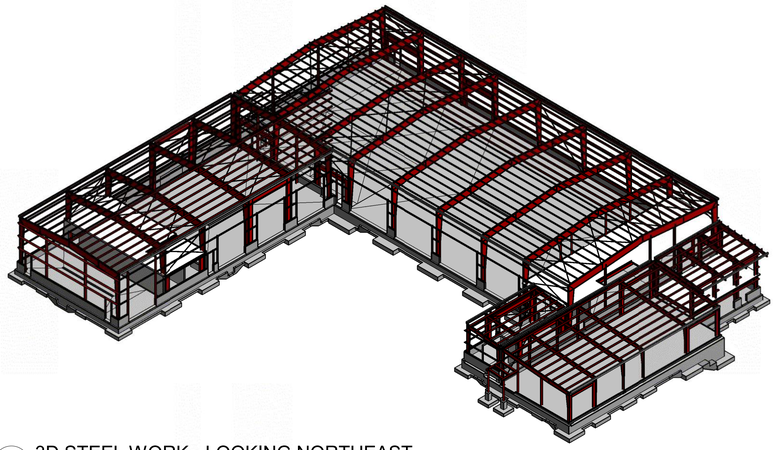
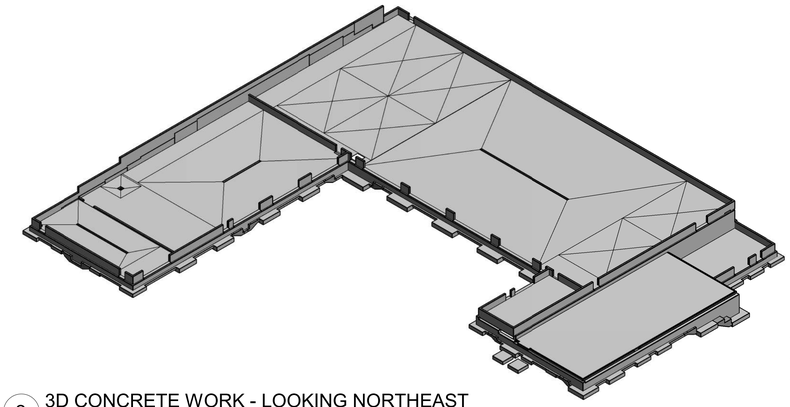
STEEL SECTIONS & DETAILS

Sheet Number:

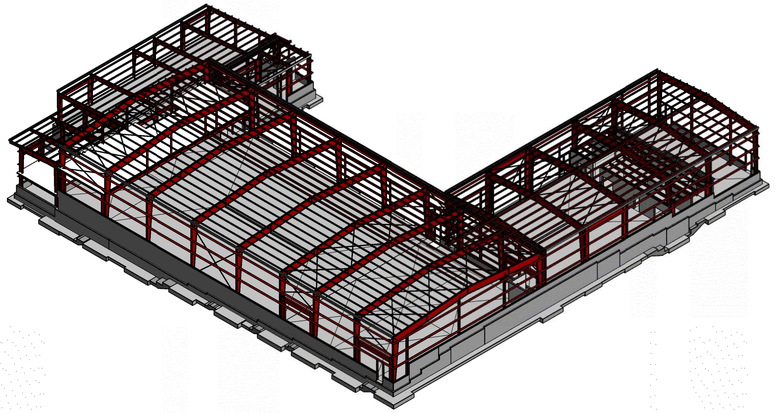
S411



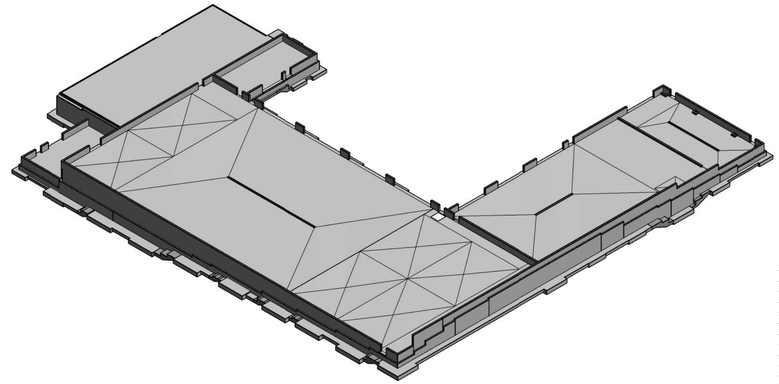
1 3D STEEL WORK - LOOKING NORTHEAST
SCALE:



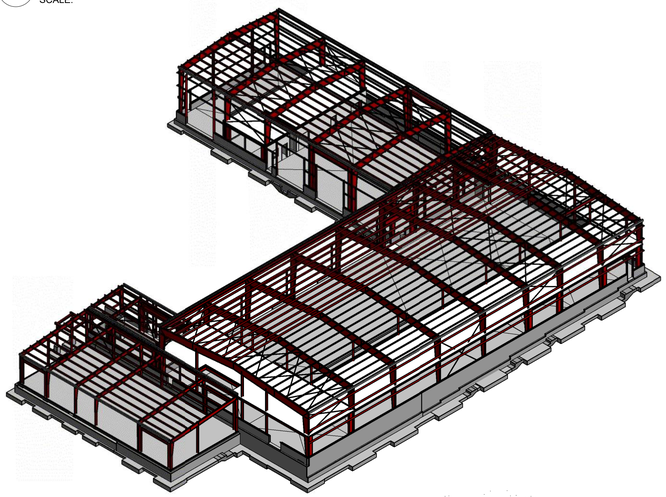
2 3D CONCRETE WORK - LOOKING NORTHEAST
SCALE:



3 3D STEEL WORK - LOOKING SOUTHWEST
SCALE:

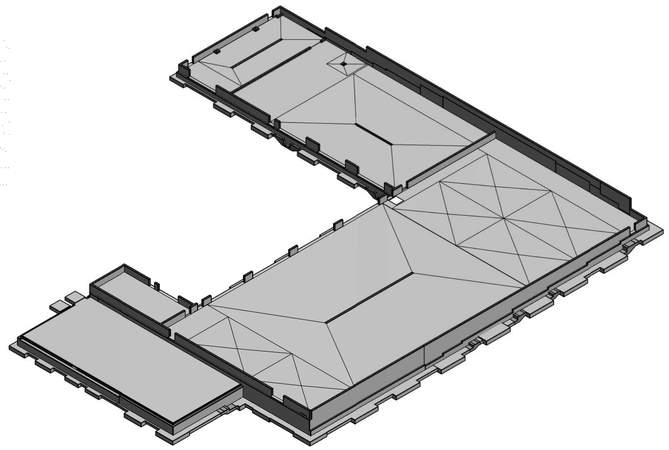


4 3D CONCRETE WORK - LOOKING SOUTHWEST
SCALE:



5 3D STEEL WORK - LOOKING NORTHWEST - BID ALT #1 AND #3
SCALE:

NOTES:
3D VIEWS ARE FOR REFERENCE ONLY. FINAL STEEL LAYOUT BY METAL BUILDING MANUFACTURER.



6 3D CONCRETE WORK - LOOKING NORTHWEST - BID ALT #3
SCALE:

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JEFFERY FRASER BUDD
083685
PROFESSIONAL ENGINEER

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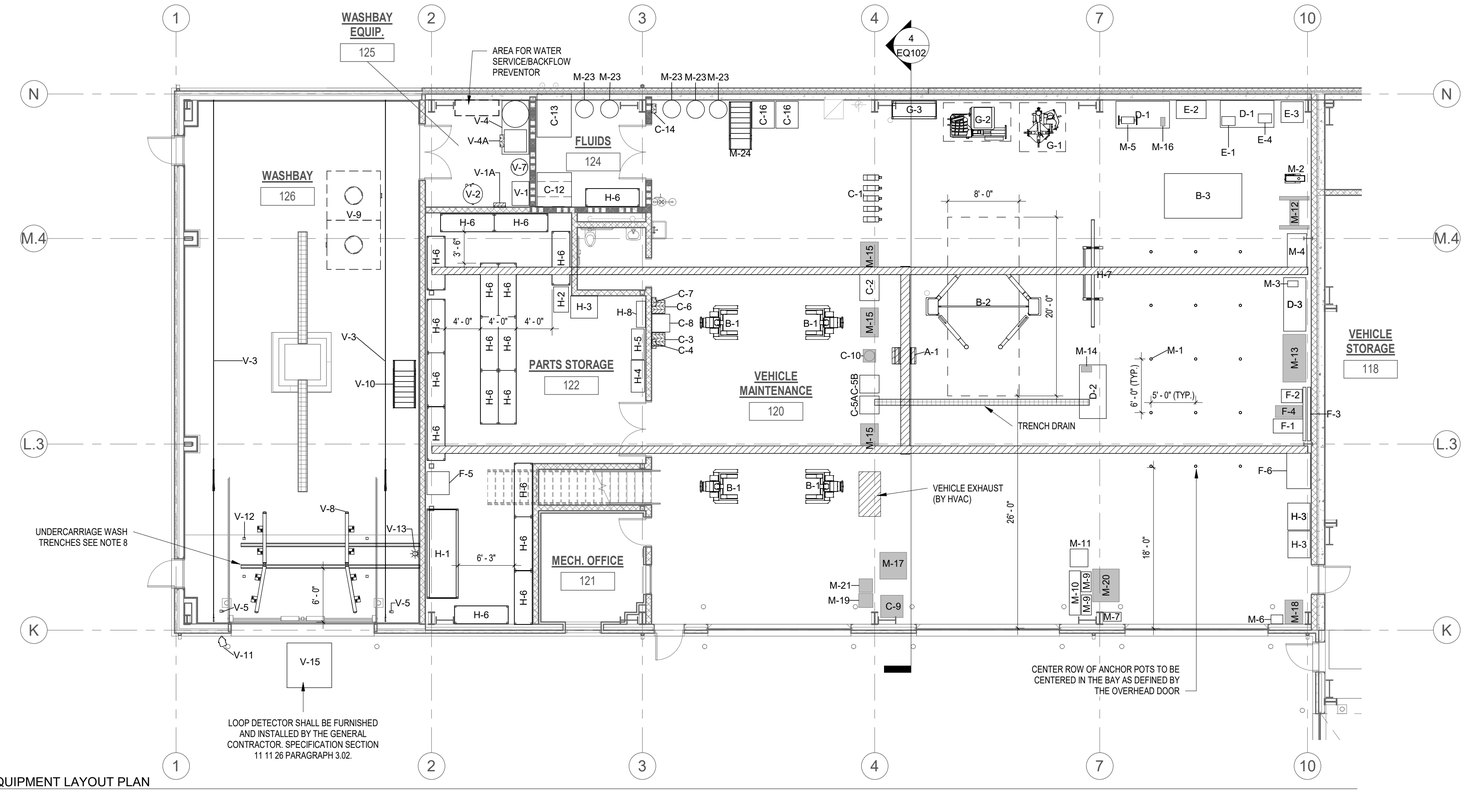
Approved By:	JFB
W&S Project No:	ENG20-0501

Drawing Title:
3D VIEWS

Sheet Number:
S901



EQUIPMENT LAYOUT PLAN
1/8" = 1'-0"

Industrial Equipment Schedule					
EQ Number	Description	Count	Equipment Type	Spec Number	Notes
A-1	5 Ton Bridge Crane	1	N	14 22 13	ADD ALT. #4
B-1	72,000lbs Four Post Mobile Lift	1	N	14 45 00	
B-2	18K 2 Post Lift	1	N	14 45 00	
B-3	1,800lbs Portable Mower Lift	1	N	14 45 00	
C-1	Lube Reel Bank (5 reels)	1	N	11 11 29	ADD ALT. #5
C-2	Low Profile Waste Oil Caddy	1	N	11 11 29	ADD ALT. #5
C-3	Waste Oil Pump Out	1	N	11 11 29	ADD ALT. #5
C-4	Waste Oil High Level Alarm	1	N	11 11 29	ADD ALT. #5
C-5A	Waste Oil Caddy	1	N	11 11 29	ADD ALT. #5
C-5B	Waste Antifreeze Caddy	1	N	11 11 29	ADD ALT. #5
C-6	Waste Anti-Freeze Pump Out	1	N	11 11 29	ADD ALT. #5
C-7	Waste Antifreeze High Level Alarm	1	N	11 11 29	ADD ALT. #5
C-8	Oil Filter Drain Box	1	N	11 11 29	ADD ALT. #5
C-9	DEF Mobile Cart w/ Pump	1	ERO	N/A	
C-10	Portable Grease Caddy	1	ERO	N/A	
C-11	N/A	1	N/A	N/A	
C-12	Fluid Tank 300 Gal (100 15W-40, 100 ATF, 100 Hydraulic Fluid)	1	N	11 11 29	ADD ALT. #5
C-13	Waste Fluid Tank (300 Waste oil, 100 Waste Anti Freeze)	1	N	11 11 29	ADD ALT. #5
C-14	Fluid Storage Room Sump Alarm	1	N	11 11 29	ADD ALT. #5
C-15	Wall Mounted Lube Pumps	3	N	11 11 29	ADD ALT. #5
C-16	Oil Trolley	2	N	11 11 29	ADD ALT. #5
D-1	Steel Work Bench (72inx36in)	2	N	12 40 00	ADD ALT. #7
D-2	Steel Work Bench w Casters	1	N	12 40 00	ADD ALT. #7
D-3	Electric Charging Station	1	N	12 40 00	ADD ALT. #7
E-1	Hydraulic Hose Crimping Machine	1	N	12 40 00	
E-2	Hydraulic Hose & Fitting Storage	1	N	12 40 00	
E-3	Hydraulic Hose Reel Rack	1	N	12 40 00	
E-4	Hydraulic Hose Saw	1	N	12 40 00	
F-1	MIG Welder	1	N	12 40 00	
F-2	Torch Cart	1	N	12 40 00	
F-3	Welding Screen	2	N	12 40 00	
F-4	Plasma Cutter	1	ERO	N/A	
F-5	Oxygen Tank Storage Cage	1	N	12 40 00	
F-6	Portable Weld Fume Extractor	1	N	12 40 00	
G-1	Tire Changer	1	N	12 40 00	
G-2	Tire Balancer	1	N	12 40 00	
G-3	Tire Storage Rack	1	N	12 40 00	
H-1	Pallet Rack	1	N	12 40 00	ADD ALT. #7
H-2	Storage Cabinet	1	N	12 40 00	ADD ALT. #7
H-3	Bin Storage	3	N	12 40 00	ADD ALT. #7
H-4	Flammable Cabinet (45 Gallons)	1	N	12 40 00	ADD ALT. #7
H-5	Small Part Drawer Storage	1	N	12 40 00	ADD ALT. #7

Industrial Equipment Schedule					
EQ Number	Description	Count	Equipment Type	Spec Number	Notes
H-6	Parts Shelving (6' x 2')	18	N	12 40 00	ADD ALT. #7
H-7	Cantilever Rack	1	N	12 40 00	ADD ALT. #7
H-8	Cubby Storage	1	N	12 40 00	ADD ALT. #7
M-1	Anchor Pot	1	N	12 40 00	
M-2	Drill Press	1	N	12 40 00	
M-3	Heavy Duty Anvil Bench Vice	1	N	12 40 00	
M-4	Parts Washer	1	N	12 40 00	
M-5	Bench Grinder	1	N	12 40 00	
M-6	Portable Battery Charger	1	N	12 40 00	
M-7	Brake Fluid Exchanger	1	N	12 40 00	
M-8	N/A	1	N/A	N/A	
M-9	3-Ton Floor Jack	2	N	12 40 00	
M-10	5-Ton Floor Jack	1	N	12 40 00	
M-11	AC Recovery and Recharge System	1	N	12 40 00	
M-12	Shop Press	1	ERO	N/A	
M-13	Snap-On Red Toolbox	1	ERO	N/A	
M-14	Bench Vice	1	ERO	N/A	
M-15	Tool Cart	3	ERO	N/A	
M-16	Bench Mounted Chainsaw Sharpener	1	ERO	N/A	
M-17	Transmission Jack	1	ERO	N/A	
M-18	2-Ton Engine Crane	1	ERO	N/A	
M-19	KantLeak Vac-U Fill	1	ERO	N/A	
M-20	3/4 Ton Wheel Dolly	1	ERO	N/A	
M-21	Trash Can	1	ERO	N/A	
M-23	Drum Dolley	5	N	12 40 00	
M-24	Mobile Platform	1	N	12 40 00	
V-1	Vehicle wash Pressure Plant	1	N	11 11 26	
V-1A	Control Panel Pressure Pump	1	N	11 11 26	
V-2	Vehicle Wash - Hot Water Heater	1	N	11 11 26	
V-3	Vehicle Wash Festoon	2	N	11 11 26	
V-4	Automatic Undercarriage Pump Skid	1	N	11 11 26	
V-4A	Pump Skid Control Panel	1	N	11 11 26	
V-5	Automatic Undercarriage photo Eye	2	N	11 11 26	
V-6	Undercarriage Control Panel	2	N	11 11 26	
V-7	Vehicle Wash Soap Drum	1	N	11 11 26	
V-8	Vehicle Wash Guide Rails	1	N	11 11 26	
V-9	Vehicle Wash Pre-Treatment Tank (1500gal)	1	N	11 11 26	
V-10	Vehicle Wash Mobile Platform	1	N	11 11 26	
V-11	Vehicle wash Entry Traffic Light	1	N	11 11 26	
V-12	Automatic Undercarriage Blasters	1	N	11 11 26	
V-13	Vehicle Wash Activation Light	1	N	11 11 26	
V-14	Automatic Undercarriage Wash Toggle Swtich	1	N	11 11 26	
V-15	Loop Detector	1	N	11 11 26	

GENERAL NOTES:

1. EQUIPMENT LAYOUTS ARE SCHEMATIC. GENERAL CONTRACTOR IS RESPONSIBLE FOR COORDINATING EXACT LOCATIONS WITH OWNER AND MANUFACTURER REQUIREMENTS. GENERAL CONTRACTOR SHALL COORDINATE ALL UTILITY REQUIREMENTS WITH ELECTRICAL, PLUMBING, AND HVAC CONTRACTORS. FINAL EQUIPMENT LOCATIONS SHALL BE CONFIRMED BY THE OWNER PRIOR TO RUNNING UTILITIES AND INSTALLATION EQUIPMENT.
2. GENERAL CONTRACTOR SHALL COORDINATE UTILITY REQUIREMENTS OF EXISTING EQUIPMENT PRIOR TO INSTALLATION OF SERVICES.
3. PRIOR TO RUNNING UTILITIES, GENERAL CONTRACTOR SHALL MARK OUT ALL EQUIPMENT LOCATIONS ON THE FLOOR USING CHALK OR ANOTHER ACCEPTABLE MEANS, AND SHALL REVIEW/REVISE FINAL EQUIPMENT LOCATIONS AS DIRECTED BY THE OWNER AND THE ENGINEER.
4. B-2 SHALL BE CENTERED IN THE MAINTENANCE BAYS AS DEFINED BY THE OVERHEAD DOOR OPENING. CONFIRM INSTALLATION LAYOUT DIMENSIONS WITH THE MANUFACTURER. ALSO SEE OWNERS MANUALS.
5. ELECTRICAL, MECHANICAL, AND PLUMBING CONTRACTORS SHALL PROVIDE AND CONNECT UTILITIES TO ALL EQUIPMENT AS SHOWN ON THE ELECTRICAL, MECHANICAL AND PLUMBING DRAWINGS AND SPECIFICATIONS IN ACCORDANCE WITH THE MANUFACTURERS REQUIREMENTS IN ORDER TO PROVIDED A COMPLETE AND OPERABLE SYSTEM. ALL UTILITIES FOR EQUIPMENT SHALL BE PROVIDED AS PART OF THE BASE BID HOWEVER THE COSTS ASSOCIATED WITH MAKING FINAL UTILITY CONNECTIONS FOR EQUIPMENT
6. THE ELECTRICAL CONTRACTOR SHALL HAVE A NEW YORK LICENSED ELECTRICIAN CONFIRM THE VOLTS, PHASE, AMPS, AND NEMA PLUG CONFIGURATION FOR EACH PIECE OF EQUIPMENT (INCLUDING EXISTING EQUIPMENT TO BE RELOCATED) IN ADVANCE OF ORDERING MATERIALS AND INSTALLATION.
7. SEE SPECIFICATION SECTION 11 11 29 - FLUID DISTRIBUTION SYSTEM ALONG WITH DETAILS ON EQ102 FOR ADDITIONAL INFORMATION AND SCOPE DELINEATION FOR THE FLUID AND WASTE FLUID DISTRIBUTION SYSTEMS.
8. THE UNDERCARRIAGE WASH TRENCH DRAINS SHALL BE FURNISHED BY THE GENERAL CONTRACTOR'S VEHICLE WASH SUB CONTRACTOR AND SHALL BE INSTALLED BY THE PLUMBING CONTRACTOR.

ABBREVIATIONS:

N	NEW EQUIPMENT TO BE SUPPLIED AND INSTALLED BY THE CONTRACTOR.
ERO	EXISTING EQUIPMENT TO BE RELOCATED AND INSTALLED BY THE OWNER. UTILITIES FOR ERO EQUIPMENT TO BE PROVIDED BY GENERAL CONTRACTOR.
ERC	EXISTING EQUIPMENT TO BE RELOCATED AND INSTALLED BY THE CONTRACTOR. UTILITIES FOR ERC EQUIPMENT TO BE PROVIDED BY THE GENERAL CONTRACTOR.
NIC	NEW EQUIPMENT PROVIDED AND INSTALLED BY THE OWNER (NOT IN CONTRACT), HOWEVER UTILITIES FOR THIS EQUIPMENT SHALL BE PROVIDED BY SUB-CONTRACTORS.

LINE TYPES
- MEZZANINE LIMITS
- NIC/ERO EQUIPMENT
- NEW EQUIPMENT

HATCHES
- CEILING MOUNTED
- WALL MOUNTED

Project:

VILLAGE OF ARDSLEY, NY

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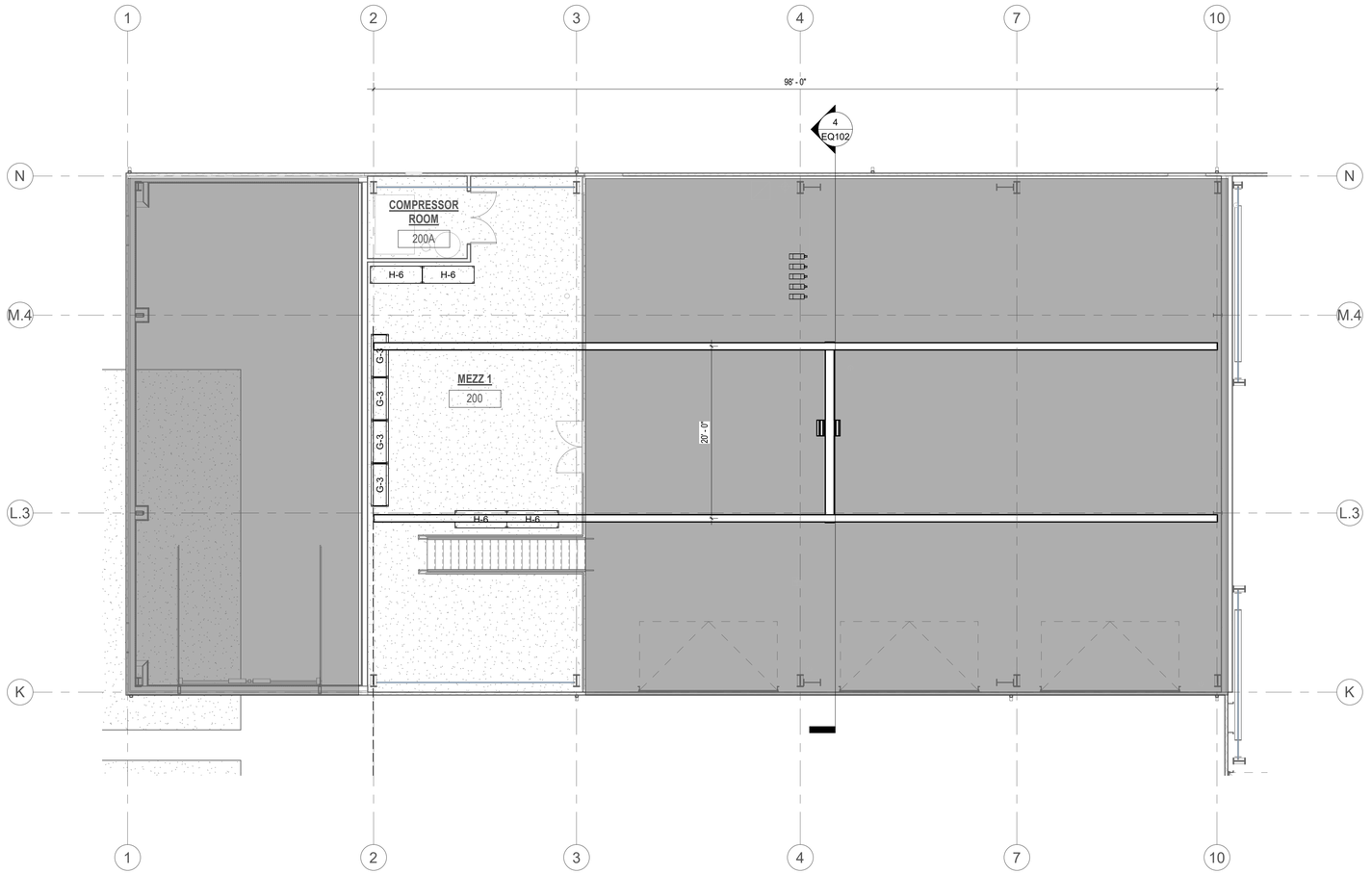
Drawing Title:

EQUIPMENT LAYOUT PLAN

Sheet Number:

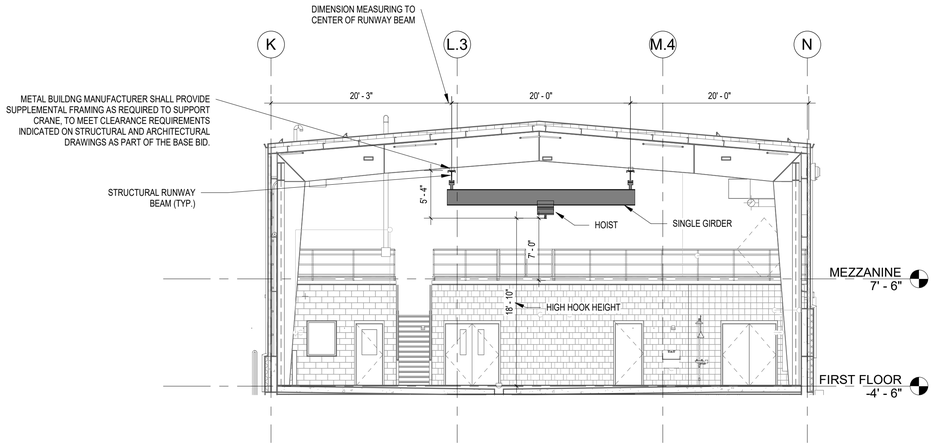
EQ101



MEZZANINE EQUIPMENT LAYOUT
1/8" = 1'-0"

Mezzanine Industrial Equipment Schedule					
EQ Number	Description	Count	Equipment Type	Spec Number	Notes
G-3	Tire Storage Rack	4	N	12 40 00	ADD ALT. #7
H-6	Parts Shelving (6' x 2')	4	N	12 40 00	ADD ALT. #7

Industrial Equipment Power Schedule						
EQ Number	Description	Count	E - Voltage	E - Phase	E - Amps	E - HP
A-1	5 Ton Bridge Crane	1	480V	3PH	14A Nom. 53A St.	
B-1	72,000lbs Four Post Mobile Lift	1	120V	1PH	1.3A	
B-2	18K 2 Post Lift	1	208V/230V	1PH		4HP
C-1	Lube Reel Bank (5 reels)	1	120V	1PH	25A	
C-4	Waste Oil High Level Alarm	1	120V	1PH	6.6A	
C-7	Waste Antifreeze High Level Alarm	1	120V	1PH	6.6A	
C-9	DEF Mobile Cart w/ Pump	1	120V	1PH	2.5A	
C-14	Fluid Storage Room Sump Alarm	1	120V	1PH	6.6A	
D-3	Electric Charging Station	1	120V	1PH	15A	
E-1	Hydraulic Hose Crimping Machine	1	120V	1PH		1.5HP
E-4	Hydraulic Hose Saw	1	120V	1PH		5HP
F-1	MIG Welder	1	208V	1PH	57A	
F-4	Plasma Cutter	1	208V	1PH	52A	
F-6	Portable Weld Fume Extractor	1	120V	1PH	11.9A	1HP
G-1	Tire Changer	1	120V	1PH	25A	1HP
G-2	Tire Balancer	1	208V	1PH	10A	
M-2	Drill Press	1	120V	1PH		1.5HP
M-4	Parts Washer	1	120V	1PH	1.4A	
M-5	Bench Grinder	1	120V	1PH	3.6A	
M-6	Portable Battery Charger	1	120V	1PH	10A	
M-11	AC Recovery and Recharge System	1	120V	1PH	10 A	
M-16	Bench Mounted Chainsaw Sharpener	1	120V	1PH	2.1A	
V-1	Vehicle wash Pressure Plant	1	480V	3 PH	25 A	7.5 HP
V-1A	Control Panel Pressure Pump	1	120V	1PH	20A	
V-2	Vehicle Wash - Hot Water Heater	1	120V	1PH	1A	
V-4	Automatic Undercarriage Pump Skid	1	480V	3PH	70A	40HP
V-4A	Pump Skid Control Panel	1	120V	1PH	20A	



5-TON BRIDGE CRANE DETAIL (ADD ALTERNATE #4)
1/8" = 1'-0"

Industrial Equipment Plumbing Schedule					
EQ Number	Type	Count	P - Vent	P - Air	P - Water
B-3	1,800lbs Portable Mower Lift	1		Shop Air (90-100 psi)	
C-3	Waste Oil Pump Out	1		Shop air (60-120PSI)	
C-6	Waste Anti-Freeze Pump Out	1		Shop air (60-120PSI)	
C-10	Portable Grease Caddy	1		Air Operated	
C-15	Wall Mounted Lube Pumps	3		6:1 pumps 7 scfm @ 40 psi. 12:1 pumps 69 scfm @ 90 psi. Diaphragm pumps 10 scfm @ 60 psi.	
G-1	Tire Changer	1		110-145 PSI	
V-1	Vehicle wash Pressure Plant	1		1/2"- 6CFM @ 90PSI	1" Water connection from V-2
V-2	Vehicle Wash - Hot Water Heater	1	4" Vent	3/4" Gas connection (440,000btu/hr)	1" Water 10 gpm @ 60psi
V-4	Automatic Undercarriage Pump Skid	1		1/2" 6 cfm 80-100psi air	1.5" suppy (water line connects to a 250 gallon buffer tank)
V-9	Vehicle Wash Pre-Treatment Tank (1500gal)	1	4" vent per chamber		

NOTES:

1. BRIDGE CRANE SHALL BE INLCUDED IN ADD ALTERNATE #4.
2. METAL BUILDING MANUFACTURER SHALL PROVIDE STEEL SUPPORT/SHIMS FOR BRIDGE CRANE EQUIPMENT TO ACCOMODATE THE SLOPE OF THE STRUCTURAL STEEL IN ORDER TO PROVIDE A LEVEL BRIDGE CRANE SYSTEM AS REQUIRED FOR A COMPLETE AND OPERABLE SYSTEM.
3. HOOK SHALL NOT EXTEND MORE THAN 1.5 FT DOWN FROM CRANE GIRDER WHEN IN FULL UP POSITION.
4. SEE STRUCTURAL AND ARCHITECTURAL DRAWINGS FOR ADDITIONAL DETAILS.
5. COORDINATE BRIDGE CRANE HEIGHT WITH OTHER UTILITIES AS REQUIRED.
6. BRIDGE CRANE SHALL BE LOCATED VERTICALLY IN THE VEHICLE MAINTENANCE SHOP TO PROVIDE A MINIMUM OF 7 FT OF CLEARANCE OVER THE MEZZANINE MEASURED FROM THE MEZZANINE SURFACE TO HIGH HOOK HEIGHT.

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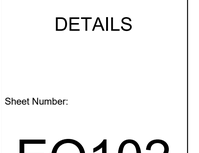

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DETAILS

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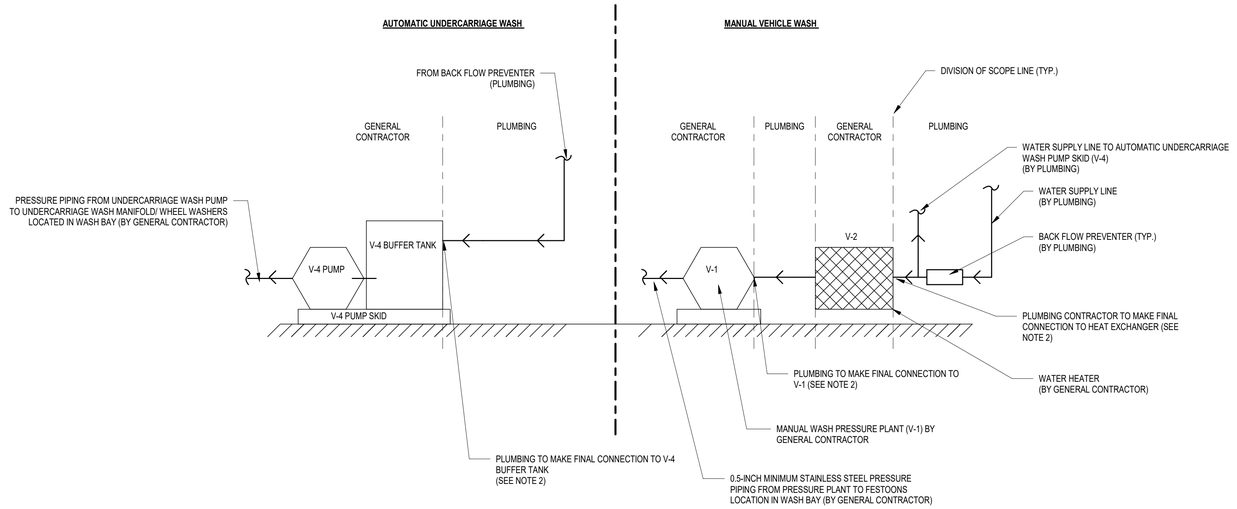
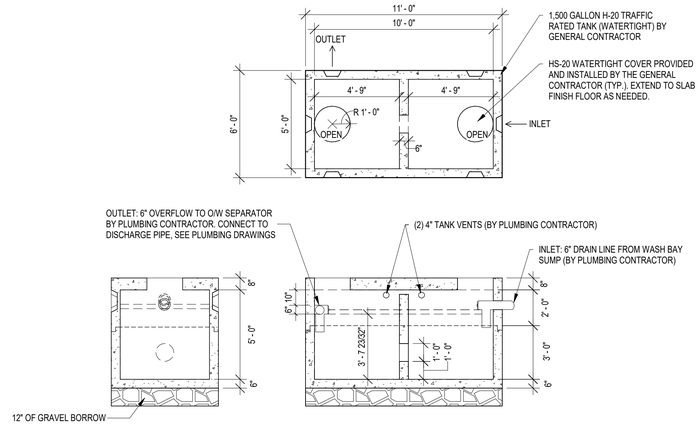
EQ102



NOTE:

1. THIS DETAIL IS SCHEMATIC ONLY, AND NOT ALL COMPONENTS ARE SHOWN. THE GENERAL CONTRACTOR SHALL PROVIDE ALL VALVES, FITTINGS AND PIPING AS REQUIRED TO PROVIDE A COMPLETE AND OPERABLE SYSTEM
2. PLUMBING CONTRACTOR SHALL MAKE ALL FINAL CONNECTIONS TO PUMPS AND HOT WATER HEATER, COORDINATE FINAL CONNECTION REQUIREMENTS WITH VEHICLE WASH EQUIPMENT INSTALLER.

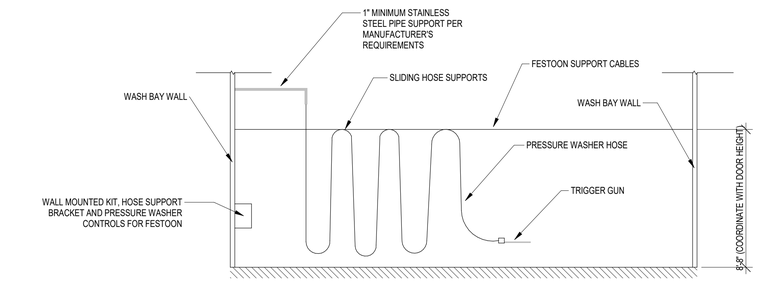
Vehicle Wash Equipment Room Coordination Schematic
N.T.S.



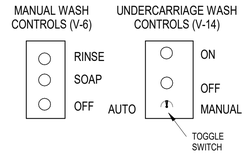
GENERAL NOTE: TANK SHALL BE SUBPPLEID AND INSTALLED BY THE G.C.

DESIGN NOTES:
1. CONCRETE 5,000 PSI @ 28 DAYS
2. HS-20-44 LOADING WITH 12" TO 60" OF COVER
3. REINFORCING ASTM A615 GRADE 60
4. CONST. JOINT TO HAVE MIN. 1" BUTYL SEALANT

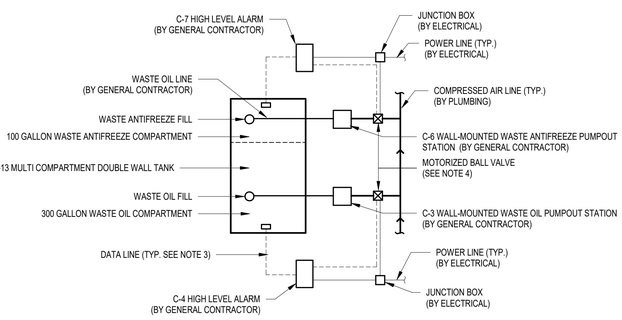
VEHICLE WASH PRE-TREATMENT TANK DETAIL (V-9) (BASE BID)
1/4" = 1'-0"



VEHICLE WASH HOSE FESTOON (TYP. 1 OF 2) (V-3)
N.T.S.



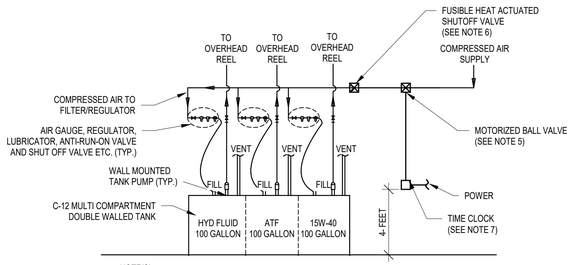
Vehicle Wash Controls
N.T.S.



NOTE(S):

1. NOT ALL COMPONENTS OF PUMPING SYSTEM ARE SHOWN. CONTRACTOR SHALL PROVIDE ALL EQUIPMENT/COMPONENTS NECESSARY FOR A COMPLETE AND OPERABLE SYSTEM, PER MANUFACTURER'S REQUIREMENTS.
2. HIGH LEVEL ALARM SHALL ACTIVATE THE MOTORIZED BALL VALVE TO SHUT OFF AIR SUPPLY TO PUMPOUT STATION WHEN THE WASTE OIL TANK REACHES 90% CAPACITY.
3. EMPTY 1" CONDUITS WITH PULL STRING SHALL BE INSTALLED BY THE ELECTRICAL CONTRACTOR. GENERAL CONTRACTOR SHALL PULL DATA WIRES.
4. MOTORIZED BALL VALVE SHALL BE SUPPLIED BY THE GENERAL CONTRACTOR AND SHALL BE INSTALLED BY THE PLUMBING CONTRACTOR. POWER SHALL BE PROVIDED BY THE ELECTRICAL CONTRACTOR.

WASTE OIL TANK SCHEMATIC PIPING ARRANGEMENT (ADD ALTERNATE #5)
N.T.S.

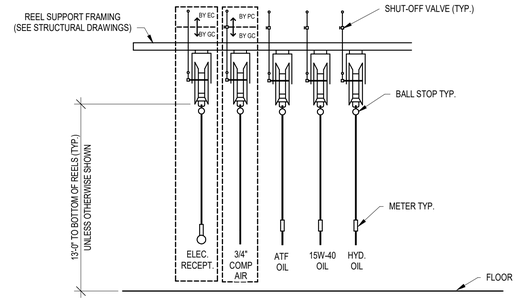


NOTE(S):

1. NOT ALL COMPONENTS OF PUMPING SYSTEM ARE SHOWN. CONTRACTOR SHALL PROVIDE ALL EQUIPMENT/COMPONENTS NECESSARY FOR A COMPLETE AND OPERABLE SYSTEM, PER MANUFACTURER'S REQUIREMENTS.
2. COORDINATE TANK OPENINGS TO PROVIDE LAYOUT SHOWN
3. TANKS VENT TO OUTSIDE AS SHOWN ON PLUMBING DRAWINGS
4. WASTE OIL TANK SHALL BE PROVIDED WITH PUMP-OUT CAM-LOCK CONNECTIONS IN ACCORDANCE WITH SPECIFICATIONS
5. MOTORIZED BALL VALVE SUPPLIED BY GENERAL CONTRACTOR AND INSTALLED BY PLUMBING. POWER PROVIDED BY ELCTRICAL.
6. HEAT ACTUATE SHUTOFF SUPPLIED BY GENERAL CONTRACTOR, INSTALLED BY PLUMBING.
7. TIME CLOCK PROVIDED BY GENERAL CONTRACTOR, INSTALLED BY ELECTRICAL. ELECTRICAL TO PROVIDE AN OVERRIDE SWITCH ADJACENT TO TIME CLOCK.
8. OWNER SHALL PROVIDE FLUIDS TO FILL LUBE TANKS, TO ALLOW GENERAL CONTRACTOR TO PRESSURIZE AND CALIBRATE SYSTEM.

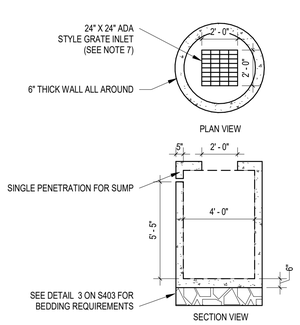
GENERAL TANK PIPING ARRANGEMENT (ADD ALTERNATE #5)
N.T.S.

C-1



NOTE: CONTRACTOR SHALL PROVIDE SUPPLEMENTAL FRAMING/SUPPORTS AS NEEDED TO CONNECT TO REEL SUPPORT FRAMING

REEL BANK DETAIL (ADD ALTERNATE #5)
N.T.S.



MIN. SUMP VOLUME = 500 GALLONS

FLUID STORAGE ROOM SUMP NOTES:

1. TANK SHALL HAVE A MINIMUM CAPACITY OF 500 GALLONS BELOW THE SUMP SENSOR PENETRATION.
2. TANK SHALL BE LOCATED BENEATH THE FLUID STORAGE ROOM TO SERVE AS SECONDARY CONTAINMENT FOR THE FLUID STORAGE TANKS, THEREFORE THE TANK SHALL NOT HAVE ANY INLET OR OUTLETS BESIDES THE DRAIN INLET AT THE TOP OF THE TANK AND THE PENETRATION FOR THE SUMP SENSOR CONDUIT WHICH SHALL BE SEALED WATER TIGHT AND LOCATED AS HIGH UP ON THE TANK AS POSSIBLE.
3. TANK SHALL BE INSTALLED PER DETAIL SHOWN ON THE STRUCTURAL DRAWINGS.
4. CONCRETE SHALL HAVE 4,000 PSI. MINIMUM CEMENT PER ASTM C-478 (6.1)
5. REINFORCED STEEL COMFORMS TO LATEST ASTM A 185 SPECIFICATIONS. 0.15 SQ. IN / LINEAL FT. AND 0.15 SQ. IN (BOTH WAYS) BASE BOTTOM STEEL REINFORCEMENT TO MEET OR EXCEED AASHTO HS-20 LOADING.
6. TANK SHALL BE SEALED INSIDE AND OUT WITH AQUA-SAFE CONCERTED SEALER AS MANUFACTURED BY BAY OIL COMPANY OR APPROVED EQUAL.
7. SEE DETAIL 3 ON SHEET S403 FOR ADDITIONAL FRAME AND GRATE REQUIREMENTS.
8. PRE-CAST CONCRETE TANK SHALL BE DESIGNED FOR H-20 WHEEL LOAD RATING AND ANTI-BUOYANCY WITH GROUNDWATER ASSUMED TO BE AT GRADE. PROVIDE ANTI-BUOYANCY CALCULATIONS STAMPED BY A NEW YORK PROFESSIONAL ENGINEER.
9. BUTYL RUBBER JOIN T SEALAN T PER ASTM C—990 AASHTO M —198
10. ONE POUR MONOLITHIC BASE
11. THE FLUID STORAGE ROOM SUMP SHALL BE A 5FT DIAMETER CONCRETE PRECAST CATCH BASIN WITH NO OUTLET PIPE AS MANUFACTURED BY SITUATE RAY PRECAST OR APPROVED EQUAL

FLUID STORAGE ROOM SUMP DETAIL (BASE BID)
N.T.S.

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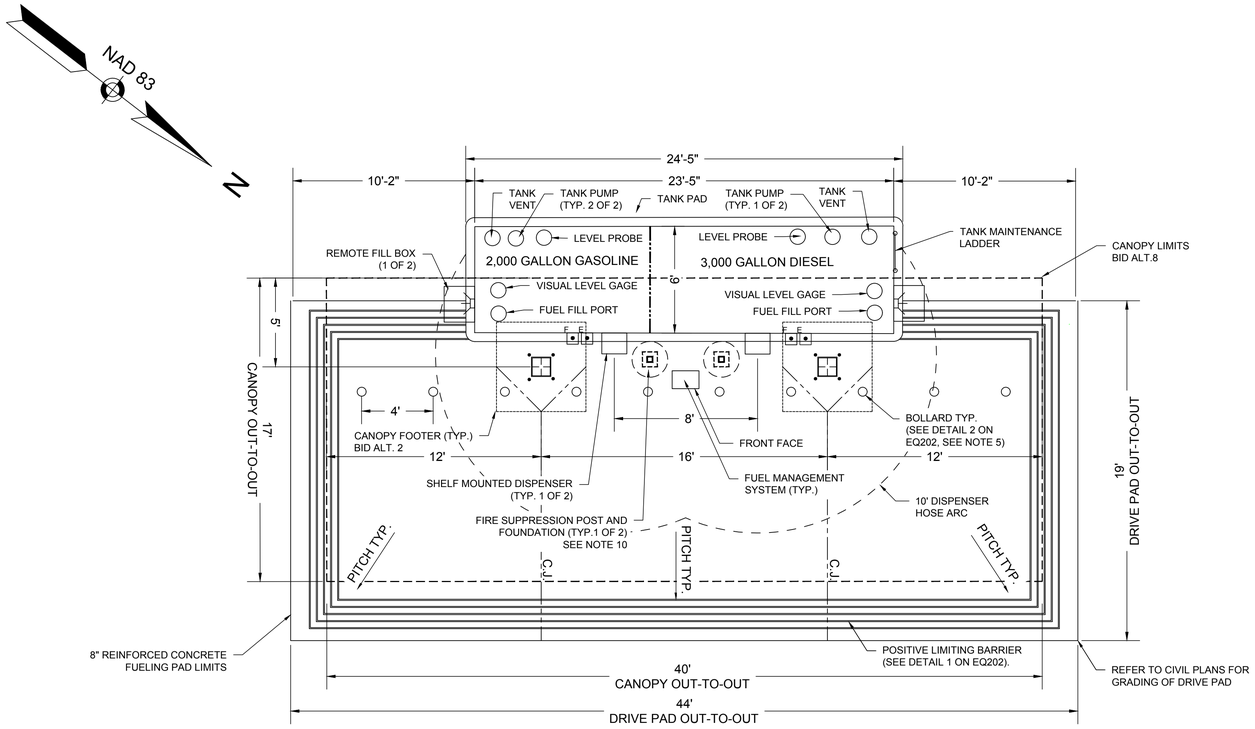
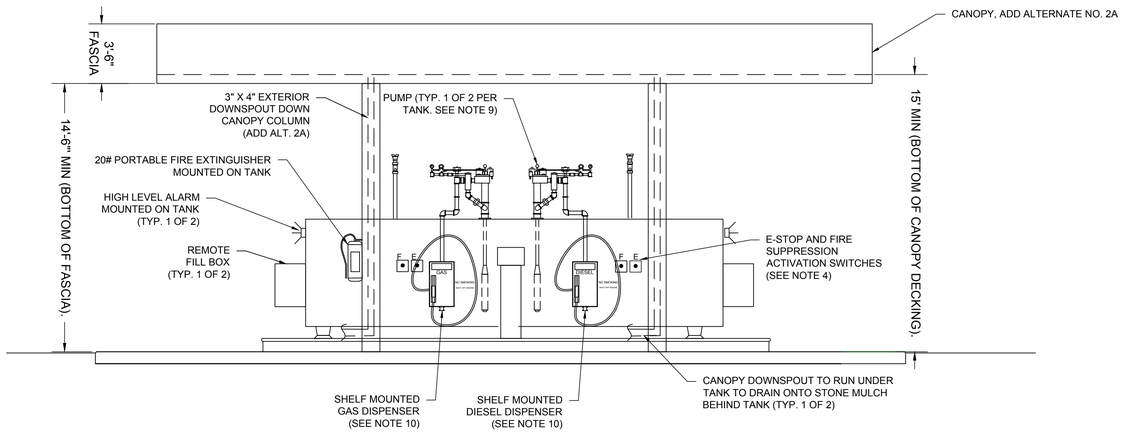
EQ103



FUEL PUMP ISLAND PLAN

SCALE: ¼" = 1'-0"



NOTE: FIRE SUPPRESSION NOT SHOWN FOR CLARITY

FUEL PUMP ISLAND PLAN - ELEVATION

SCALE: ¼" = 1'-0"

LEGEND:

- E — EMERGENCY PUMP SHUTOFF SWITCH
- F — FIRE SUPPRESSION ACTIVATION SWITCH
- TANK HIGH LEVEL ALARM
- C.J. CONTROL JOINT

FUEL SYSTEM NOTES:

1. THE CANOPY FOUNDATIONS SHALL BE INCLUDED IN ADD ALTERNATE 2. THE ABOVE GROUND CANOPY STRUCTURE SHALL BE INCLUDED AS ADD ALTERNATE 2A. ALL OTHER WORK ON THIS DRAWING IS BID ALTERNATE 2.
2. PLANS ARE SCHEMATIC AND SHOW THE GENERAL LAYOUT OF THE FUEL SYSTEM ONLY AND NOT ALL FUEL SYSTEM COMPONENTS ARE SHOWN. THE CONTRACTOR SHALL PROVIDE ALL EQUIPMENT, MATERIALS, LABOR, ETC. INCLUDING PIPING, VALVES, WIRING, AND ALL OTHER APPURTENANCES AS NEEDED IN ORDER TO PROVIDE A COMPLETE AND OPERABLE SYSTEM.
3. CONCRETE SLAB PITCH SHALL BE AS SHOWN.
4. THERE SHALL BE THREE REMOTE SHUTOFFS AND FIRE SUPPRESSION ACTIVATION SWITCHES PROVIDED FOR THE FUEL SYSTEM, TWO SHALL BE MOUNTED ON THE TANK, ADJACENT TO THE DISPENSERS AS SHOWN ON THIS DRAWING. THE THIRD SET OF SWITCHES SHALL BE MOUNTED ON THE SIDE OF THE ELECTRICAL CABINET CLOSEST TO THE FUEL ISLAND. THIS SHALL BE LOCATED GREATER THAN 20 FT BUT LESS THAN 100 FT PER THE CIVIL DRAWINGS. LOCATIONS TO BE APPROVED BY THE ENGINEER.
5. BOLLARDS SHALL BE BOLTED TO THE CONCRETE FUEL PAD WHERE THERE IS A CONFLICT WITH THE CANOPY FOOTERS. INSTALL POST ACCORDING TO DETAIL ON EQ202 WHEN POSSIBLE, IN COORDINATION WITH THE ENGINEER.
6. ELEVATION OF TANK PAD SHALL BE LEVEL AT 274.00' WITH A 6" REVEAL FROM THE DRIVE PAD.
7. SEAL CONTROL JOINT PENETRATIONS THROUGH POSITIVE LIMITING BARRIER WITH PETROLEUM RESISTANT SEALANT.
8. SUBMERSIBLE PUMPS, LEVEL PROBE, AND TANK VENTS SHALL BE MOUNTED OUTSIDE THE LIMITS OF THE CANOPY FASCIA. TANK VENTS SHALL EXTEND TO 12' ABOVE THE SURROUNDING FUELING PAD GRADE.
9. IF ADD ALTERNATE 2A IS SELECTED, THE FIRE SUPPRESSION SYSTEM SHALL BE MOUNTED IN THE CANOPY AND THE FIRE SUPPRESSION SUPPORT POSTS SHALL NOT BE PROVIDED.
10. MOUNT ALL DISPENSERS SO FUEL NOZZLE IS 42-INCHES ABOVE FUELING PAD.
11. FIRE SUPPRESSION SYSTEM SHALL BE DESIGNED TO REACH THE OUTER LIMITS OF THE AREA AS DEFINED BY THE ARC OF THE FUEL HOSES.

Project:

VILLAGE OF ARDSLEY NEW YORK 1896

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Approved By: JFB

W&S Project No:

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FUEL SYSTEM PLAN AND ELEVATION

BID ALTERNATE 2

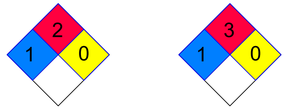
Sheet Number:

EQ201

CONSTRUCTION NOTES

1. TANK SHALL BE LABELED WITH A MINIMUM OF 2-INCH LETTERING WITH THE FOLLOWING INFORMATION:

COMPARTMENT ID:	#1A	#1B
CONTENTS:	DIESEL	GASOLINE
SAFE FILL VOLUME (HEIGHT):	3,000 GALLONS (X'-X")*	2,000 GALLONS (X'-X")*
NFPA HAZARD ID:		



*CONTRACTOR TO PROVIDE HEIGHT "X" BASED ON MANUFACTURER DATA AND FINAL APPROVED SHOP DRAWING AND LABEL TANK AS SHOWN ABOVE

2. THE SAFE FILL LEVEL SHALL BE 90% OF THE TANK VOLUME (4,500 GALLONS). THE AUDIBLE AND VISUAL ALARM SHALL BE ACTIVATED AT THIS LEVEL. THE OVERFILL PREVENTION VALVE SHALL BE ACTIVATED AT 95% OF THE TANK VOLUME (9,500 GALLONS). INSTALLER SHALL VERIFY THAT THE 95% SHUTOFF VALVE FULLY STOPS FLOW AT THE SPECIFIED LEVEL.

3. VALVES, GAUGES, SENSORS, PIPES AND PUMPS ARE SHOWN AT APPROXIMATE LOCATIONS. THESE SHALL BE INSTALLED PER THE MANUFACTURER'S RECOMMENDATION.

4. ALL JOINTS ON STEEL PIPING 2" NPT OR GREATER, SHALL BE WELDED OR WELDED FLANGED. NO GALVANIZED PIPE SHALL BE USED.

5. THE INSTALLER SHALL VERIFY THAT THE TANK IS TESTED BY THE MANUFACTURER. IF TANK IS DELIVERED TO THE SITE UNDER VACUUM AND MAINTAINS ITS VACUUM THROUGH FINAL PLACEMENT, IT SHALL BE CONSIDERED SUCCESSFULLY TESTED. IF NOT, THE INSTALLER SHALL TEST THE TANK PER NFPA 30 CHAPTER 21.5. TANKS AND INTERSTITIAL SPACE SHALL BE TESTED FOR TIGHTNESS BY POSITIVE AIR PRESSURE OR HYDROSTATICALLY AT PRESSURE BETWEEN 3 AND 5 PSI FOR A MINIMUM OF 1.0 HOUR WITHOUT MEASURABLE LOSS.

6. PIPING SHALL BE TESTED AFTER INSTALLATION. PIPING SHALL BE TESTED PER NFPA 30 CHAPTER 27.7. PIPING SHALL BE TESTED PNEUMATICALLY AT 110% OF THE MAXIMUM ANTICIPATED PRESSURE. THE MAXIMUM PRESSURE OF PIPE SYSTEM PRODUCED AT THE PUMP IS 31 PSI, TEST PRESSURE SHALL BE 110% OF 31 PSI OR 34 PSI. THE TEST PRESSURE SHALL BE MAINTAINED WHILE A COMPLETE VISUAL INSPECTION OF ALL JOINTS AND CONNECTIONS IS CONDUCTED. THE TEST SHALL BE MAINTAINED FOR A MINIMUM OF 10 MINUTES WITHOUT MEASURABLE LOSS.

7. THE TANK AND PIPING SHALL HAVE PROTECTIVE COATINGS AS SPECIFIED IN NFPA 30.

8. THE TANK, PIPING AND ASSOCIATED EQUIPMENT SHALL BE DESIGNED, INSTALLED AND OPERATED TO PREVENT ELECTROSTATIC IGNITION PER THE REQUIREMENTS OF NFPA 30 CHAPTER 6.5.4. TANK, PIPING AND ASSOCIATED EQUIPMENT SHALL BE GROUNDED AND TESTED FOR CONTINUITY PRIOR TO BEING PLACED INTO OPERATION.

9. WARNING SIGN(S) SHALL BE CONSPICUOUSLY POSTED IN THE DISPENSING AREA STATING THE FOLLOWING (DIMENSION OF SIGN TO BE DETERMINED. LETTERHEAD SHALL BE MINIMUM OF 1" HIGH):

   WARNING:

   NO SMOKING.

   SHUT OFF MOTOR.

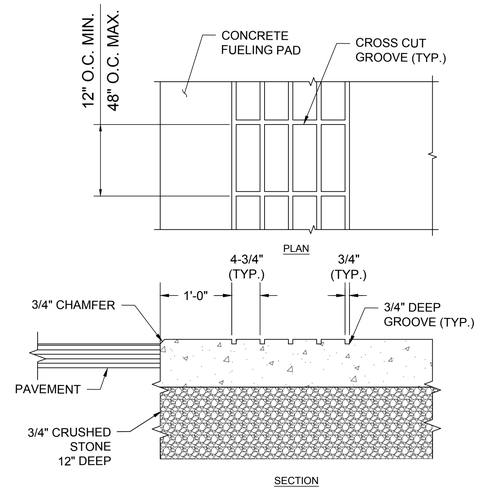
   DISCHARGE YOUR STATIC ELECTRICITY BEFORE FUELING BY TOUCHING A METAL SURFACE AWAY FROM THE NOZZLE.

   TO PREVENT STATIC CHARGE, DO NOT REENTER YOUR VEHICLE WHILE FUEL IS PUMPING

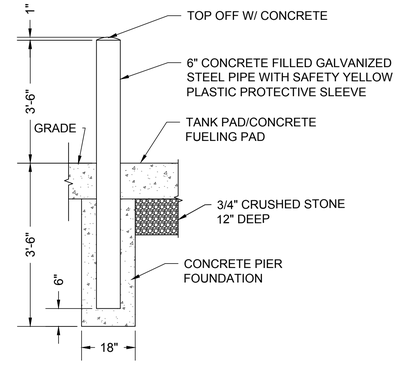
   IF A FIRE STARTS, DO NOT REMOVE NOZZLE - BACK AWAY IMMEDIATELY.

   IT IS UNLAWFUL AND DANGEROUS TO DISPENSE FUEL INTO UNAPPROVED CONTAINERS.

   NO FILLING OF PORTABLE CONTAINERS IN OR ON A MOTOR VEHICLE. PLACE CONTAINER ON THE GROUND BEFORE FILLING.

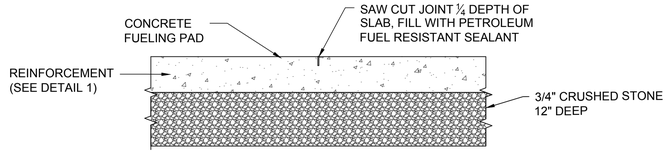


1 POSITIVE LIMITING BARRIER DETAIL
SCALE: N.T.S.

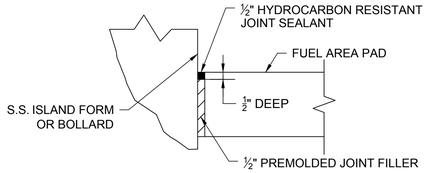


NOTES:
1. FOR BOLLARDS LOCATED OVER CANOPY FOOTERS THE BOLLARDS SHALL BE BOLTED TO THE CONCRETE SLAB

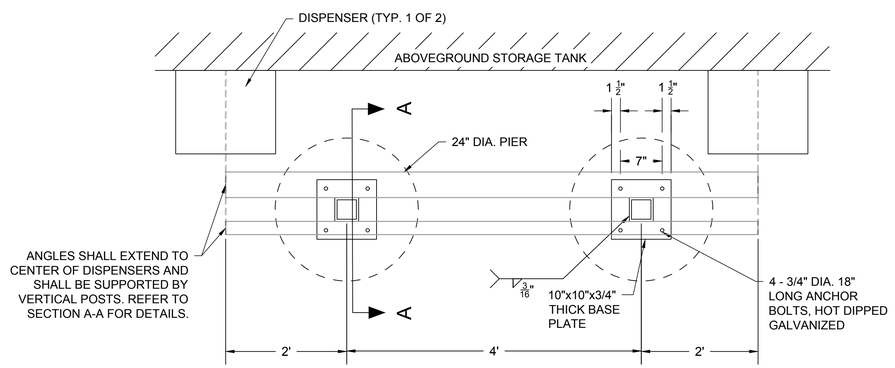
2 BOLLARD DETAIL
SCALE: N.T.S.



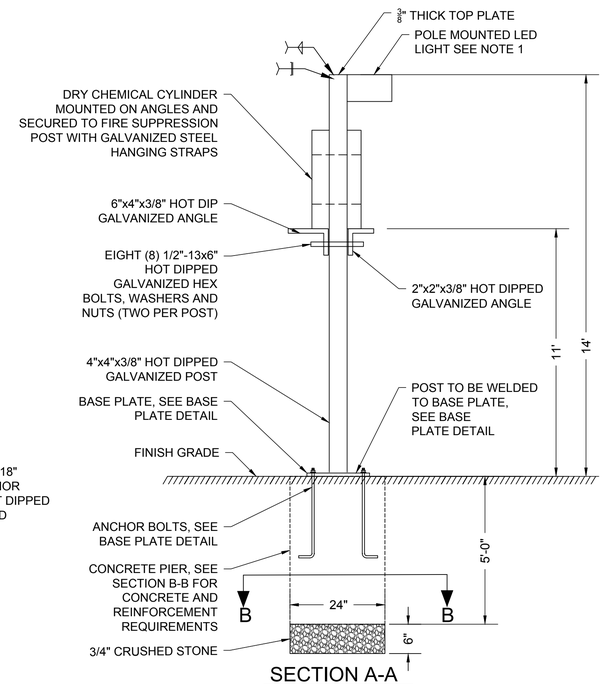
3 CONTROL JOINT (C.J.)
SCALE: N.T.S.



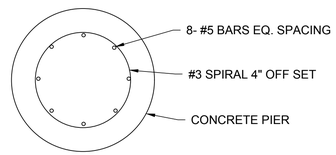
4 ISOLATION JOINT DETAIL
SCALE: N.T.S.



5 FIRE SUPPRESSION SUPPORT BASE PLATE DETAIL
SCALE: N.T.S.



SECTION A-A



SECTION B-B

NOTES:

1. IF ADD ALTERNATE 2A IS SELECTED, CONTRACTOR SHALL NOT INSTALL POLE MOUNTED LIGHTS. INSTEAD, CONTRACTOR SHALL INSTALL LIGHTS MOUNTED IN CANOPY. IF ADD ALTERNATE 2A IS NOT SELECTED, CONTRACTOR SHALL PROVIDE TWO (2) POLE MOUNTED LED LIGHTS, ONE PER DISPENSER. REFER TO THE ELECTRICAL DRAWINGS FOR LIGHT SPECIFICATIONS.
2. CONTRACTOR SHALL PROVIDE FIRE SUPPRESSION ENGINEERING DRAWINGS STAMPED BY A NEW YORK PROFESSIONAL ENGINEER. REFER TO SPECIFICATION SECTION 21 24 00 FUEL ISLAND FIRE SUPPRESSION SYSTEM FOR ADDITIONAL INFORMATION.
3. CONCRETE SHALL BE 4,000 PSI. SEE SECTION 03 30 00 - CAST IN PLACE CONCRETE.

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RHINEBECK ARCHITECTURE

Seal:

STATE OF NEW YORK JEFFERY FRASER RUSSIN 083450 LICENSED PROFESSIONAL ENGINEER

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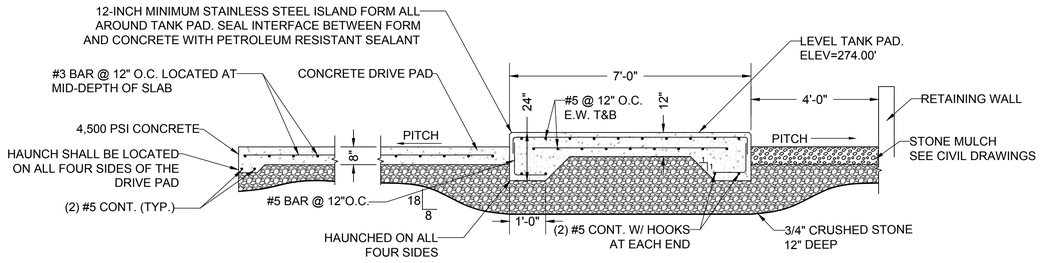
Drawing Title:

FUEL SYSTEM DETAILS I

BID ALTERNATE 2

Sheet Number:

EQ202

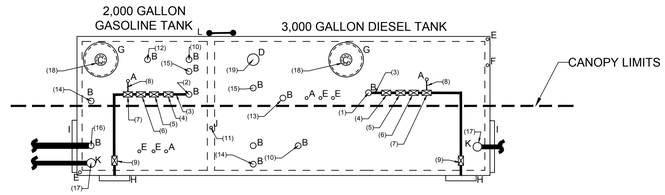


NOTES:

1. CONCRETE PADS SHALL BE 4,500 PSI AND COATED WITH SALT RESISTANT SEALANT AS SPECIFIED. SEE SECTION 03300 - CAST IN PLACE CONCRETE.

1 CONCRETE FUELING PAD AND TANK PAD

SCALE: N.T.S.



LEGEND:

A. 2" FEMALE FIREGUARD COUPLING
B. 4" FEMALE FIREGUARD COUPLING
C. 8" FFSO 150# FLANGE - PRIMARY EMERGENCY VENT USE ONLY
D. 8" FFSO 150# FLANGE THROUGH OUTER SHELL ONLY. MARK WITH SPECIAL WARNING LABEL "INTERSTITIAL EMERGENCY VENT USE ONLY"
E. 2" FITTING THROUGH OUTER SHELL ONLY WITH CAST IRON PLUG - FOR MFG USE ONLY
F. 2" INTERSTITIAL MONITOR PIPE - MALE NPT END
G. 24" TIGHT BOLT MANWAY WITH "C" MOUNTED IN COVER
H. WAYNE S1 BRACKET
I. PIPING SUPPORT BRACKET
J. 2" INTERSTITIAL MONITOR PIPE - MALE NPT END - BULK HEAD MONITOR USE
K. 6" FEMALE FIREGUARD COUPLING
L. EXTERNAL TANK LADDER FOR MAINTENANCE ACCESS

SCHEDULE:

1. 1.5 HP RED JACKET PUMP
2. 3/4 HP RED JACKET PUMP
3. 1.5" SCH 40 CARBON STEEL PIPE
4. 1.5" THREADED GATE VALVE
5. 1.5" EMERGENCY VALVE (MORRISON BROS. 346DI-0400 AV)
6. 1.5" SOLENOID VALVE (MORRISON BROS. 710SS-2150 1V)
7. 0.5" EXPANSION RELIEF VALVE (MORRISON BROS. 078DI-0200 AV)
8. 0.5" SCH 40 CARBON STEEL PIPE FROM EXP. RELIEF VALVE TO TANK
9. 1.5" BALL VALVE (MORRISON BROS. 691 BSS)
10. TANK LEVEL PROBE/HIGH LEVEL SENSOR (VEEDER ROOT 846391-399)
11. INTERSTITIAL SENSOR (VEEDER ROOT 794390-420)
12. 3" CARBON STEEL VENT PIPE WITH PV VENT CAP (HUSKY 005885, PRES. 2.5-6" W.C., VAC. 6"-10" W.C. AND 005041 ADAPTER)
13. 3" CARBON STEEL VENT PIPE WITH ATMOSPHERIC VENT CAP (OPW 23-0055)
14. CLOCK GAUGE (MORRISON BROS. 818-0400AGEVR)
15. GAUGE STICK PORT WITH CAP (MORRISON BROS. 305GSP2000AKEVR)
16. VAPOR RECOVERY ADAPTOR AND CAP
17. PRODUCT FILL
18. PRIMARY EMERGENCY VENT (MORRISON BROS. 244OF-0200AEVR)
19. SECONDARY EMERGENCY VENT (MORRISON BROS. 244OF-0100AEVR)

NOTES:

1. SEE PIPING NOTES ON EQ202 FOR ADDITIONAL INFORMATION/REQUIREMENTS.
2. FINAL TANK FITTING LAYOUT AND QUANTITY TO BE ADJUSTED AS NEEDED AND CONFIRMED DURING THE SUBMITTAL PROCESS TO MEET THE DESIGN LAYOUT AND TO MEET MANUFACTURER AND CODE REQUIREMENTS.
3. TANK TOP PIPING SUPPORT BRACKETS (NOT SHOWN) SHALL BE INCLUDED TO SUPPORT DISPENSER PIPING AS NEEDED.

2 FUEL SYSTEM COMPONENT SCHEDULE

SCALE: N.T.S.

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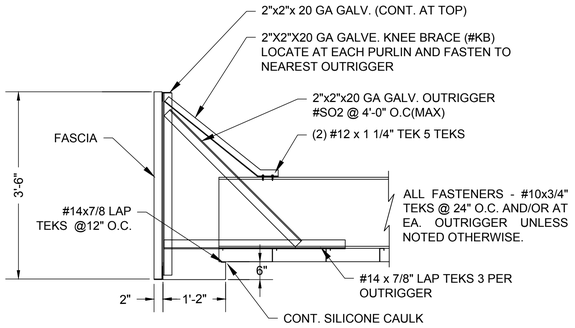
Drawing Title:

FUEL SYSTEM DETAILS II

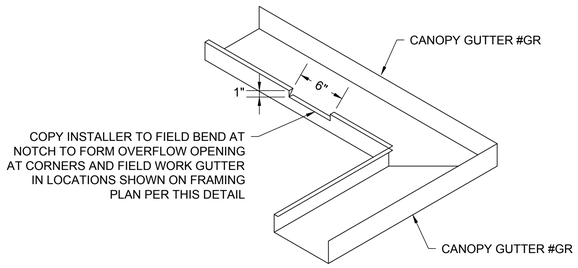
BID ALTERNATE 2

Sheet Number:

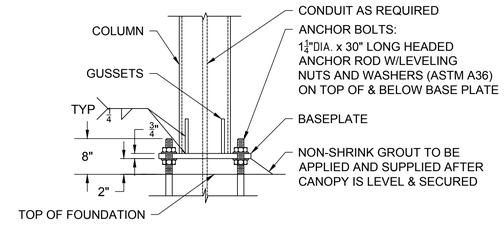
EQ203



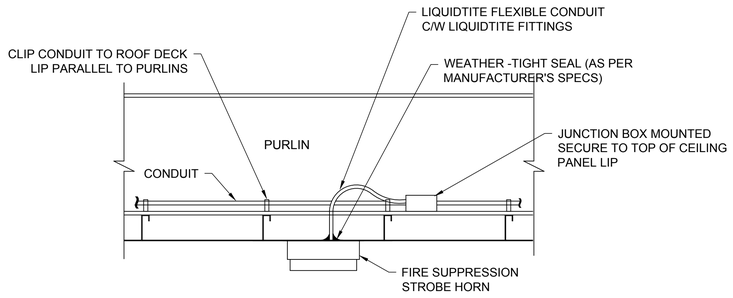
1 FASCIA SECTION
SCALE: N.T.S.



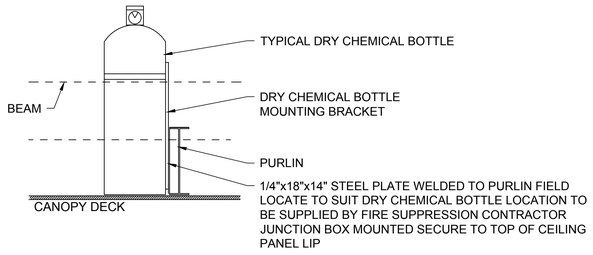
2 SECONDARY DRAIN OVERFLOW DETAIL
SCALE: N.T.S.



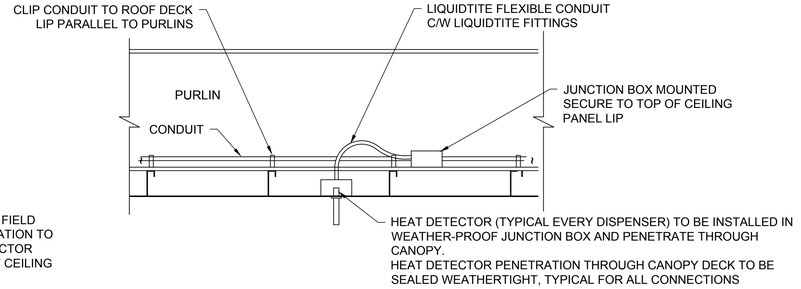
3 BASE PLATE DETAIL (TYP. ALL COLUMNS)
SCALE: N.T.S.



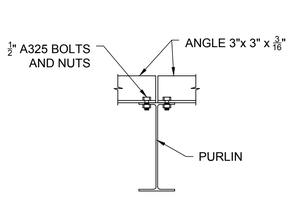
4 TYPICAL FIRE SUPPRESSION STOBE / HORN ALARM
SCALE: N.T.S.



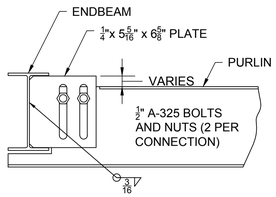
5 DRY CHEMICAL BOTTLE MOUNTING DETAIL
SCALE: N.T.S.



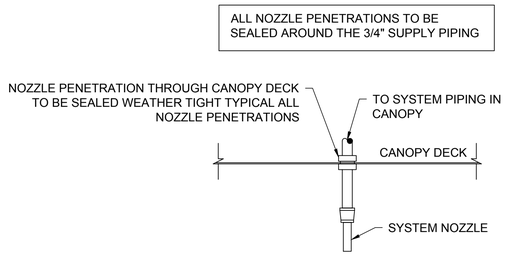
6 TYPICAL HEAT DETECTOR CONNECTION DETAIL
SCALE: N.T.S.



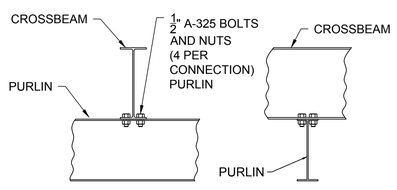
7 ANGLE LATERAL BRACING
SCALE: N.T.S.



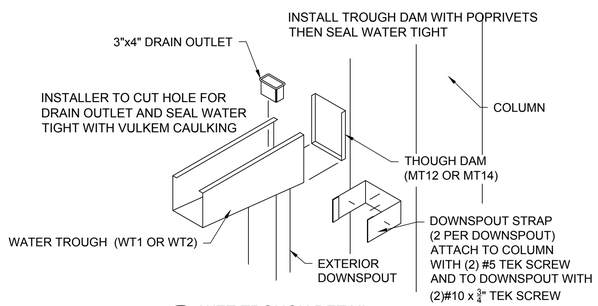
8 ANGLE LATERAL BRACING
SCALE: N.T.S.



9 NOZZLE ELEVATION
SCALE: N.T.S.



10 CROSEEBEAM TO PURLIN CONNECTION
SCALE: N.T.S.



11 WET TROUGH DETAIL
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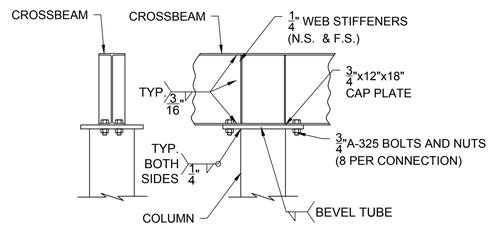
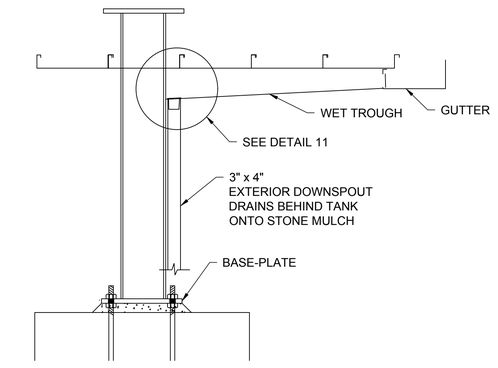


12 CROSSBEAM TO COLUMN CONNECTION
SCALE: N.T.S.



13 EXTERIOR DRAIN DETAIL
SCALE: N.T.S.

GENERAL NOTES:

1. DETAILS SHOWN ON THIS PAGE SHALL BE PART OF BID ALTERNATE 8.
2. NOT ALL FOUNDATION COMPONENTS SHOWN FOR CLARITY. SEE DETAIL 5 ON EQ205

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Approved By: JFB

W&S Project No:

Drawing Title:

CANOPY DETAILS I

ADD ALTERNATE 2A

Sheet Number:

EQ204

GENERAL NOTES:

1. CANOPY SYSTEM SHOWN IS DIAGRAMMATIC ONLY AND NOT ALL COMPONENTS ARE SHOWN. THE CANOPY AND FOUNDATION SHALL BE DESIGNED AND STAMPED BY A NY LICENSED STRUCTURAL ENGINEER AS SPECIFIED. CANOPY COMPONENTS SHOWN SHALL BE MODIFIED AS NEEDED PER MANUFACTURER REQUIREMENTS.
2. CANOPY SHALL BE COATED/PAINTED IN ACCORDANCE WITH MANUFACTURER RECOMMENDATIONS AS SPECIFIED. PAINT COLOR CHOSEN BY THE OWNER.
3. ALL DRAWINGS NOT TO SCALE UNLESS OTHERWISE NOTED.

BID ALTERNATE NOTES:

1. THE CANOPY FOUNDATIONS SHALL BE ADD ALTERNATE 2. THE REMAINDER OF THE ABOVE GROUND CANOPY SYSTEM SHALL BE ADD ALT. 2A.
2. IF CANOPY ADD ALT. 2A IS NOT SELECTED, BASE PLATES SHALL BE COVERED AND BASE PROTECTED PER MANUFACTURER RECOMMENDATIONS USING WATER TIGHT COVER OVER GREASED BOLTS AND BASE PLATE, ALONG WITH SAND BACKFILL AND A MARKED CONCRETE CAP. CONCRETE MARKING METHOD SHALL BE APPROVED BY THE ENGINEER.

FOOTING NOTES:

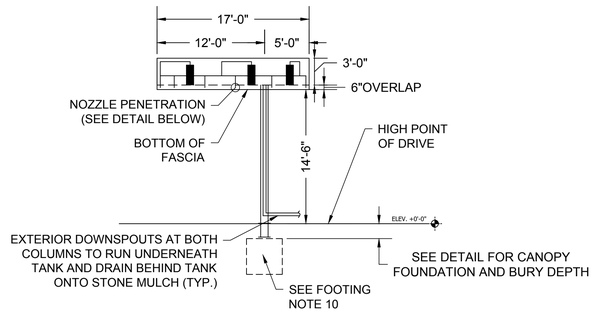
1. GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR FOOTING AND ANCHOR BOLT INSTALLATION.
2. ALL FOOTINGS SHALL BE CAST NATIVE, INORGANIC SOIL OR COMPACTED STRUCTURAL FILL TO BE PROVIDED AND INSTALLED BY THE GENERAL CONTRACTOR. FOOTING SIZE BASED ON CANOPY MANUFACTURER'S/STRUCTURAL ENGINEER'S RECOMMENDATIONS AND SUBGRADES SHALL BE PREPARED AS REQUIRED BY SPECIFICATION SECTION 31 00 00, EARTHWORK WITH AN ALLOWABLE BEARING PRESSURE OF 3,000 PSF. CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING ALL SOIL PARAMETERS.
3. FOOTING CONCRETE SHALL HAVE A MINIMUM 28 DAY COMPRESSIVE STRENGTH OF 3000 PSI.
4. TOPS OF ALL FOOTINGS ARE ASSUMED TO BE AT SAME ELEVATION. GENERAL CONTRACTOR SHALL PROVIDE BURIAL DEPTH FROM HIGH GRADE UNDER CANOPY. WHERE TOPS OF FOOTINGS ARE AT DIFFERENT ELEVATIONS, THE GENERAL CONTRACTOR SHALL PROVIDE THE CANOPY MANUFACTURER WITH ALL FOOTING AND GRADE ELEVATIONS PRIOR TO CANOPY FABRICATION. VARIATIONS FROM DESIGN ELEVATIONS MAY RESULT IN INADEQUATE CLEARANCE AND UNDER SIZED FOOTINGS.
5. GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR PLACING NON-SHRINK GROUT UNDER ALL COLUMN BASES AFTER CANOPY IS LEVELED AND SECURED.
6. THE FUEL ISLAND AND DRIVE MAT CONCRETE IS INDEPENDENT OF THE CANOPY FOOTINGS.
7. ANCHOR BOLTS SHALL BE PLACED IN ACCORDANCE WITH DETAIL 5 ON THIS PAGE. TEMPLATES SHALL BE USED TO ENSURE PROPER PLACEMENT OF ANCHOR BOLTS. ANCHOR BOLTS ARE TO BE INSTALLED SUCH THAT A MINIMUM OF 8" OF THREAD IS EXPOSED ABOVE TOP OF FOOTING. BOTTOM OF THREADS SHALL NOT END MORE THAN 3/4" ABOVE TOP OF FOOTER.
8. ANY DISCREPANCIES BETWEEN THE ABOVE NOTES AND LOCAL BUILDING CODE REQUIREMENTS SHALL BE REPORTED TO THE CANOPY MANUFACTURER IMMEDIATELY. COMMENCEMENT OF FOOTING INSTALLATION SHALL INDICATE THAT THE ABOVE NOTE MEETS LOCAL BUILDING CODE REQUIREMENTS.
9. FOOTER DIMENSIONS/INFORMATION SHOWN IS THE MINIMUM REQUIREMENT AND SHALL BE VERIFIED/MODIFIED AS NEEDED BY CANOPY MANUFACTURER.
10. FOOTER DEPTH SHOWN SHALL BE EXTENDED AS NEEDED BELOW LOCAL FROST DEPTH IN ACCORDANCE WITH STATE BUILDING CODES. ANCHOR BOLTS SHALL BE PROTECTED FROM CORROSION IN ACCORDANCE WITH MANUFACTURER RECOMMENDATIONS.

CANOPY STEEL NOTES

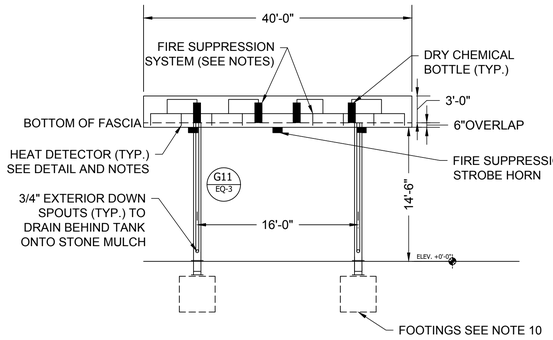
1. DESIGN, FABRICATION AND ERECTION OF STRUCTURAL STEEL SHALL CONFORM TO THE LATEST SPECIFICATIONS. DESIGN, FABRICATION AND ERECTION OF COLD FORMED STEEL SECTIONS SHALL CONFORM TO THE LATEST AISI SPECIFICATIONS. ALL CANOPY COMPONENTS SHALL BE COATED WITH A CORROSION RESISTANT COATING SUITABLE FOR OUTDOOR USE.
2. STRUCTURAL MATERIALS:
   WIDE FLANGE SECTIONS - ASTM A992 OR A572 GRADE 50 (Fy = 50 KSI)
   ANGLES / CHANNELS - ASTM A36 (Fy = 36 KSI)
   HOLLOW STRUCTURAL SECTIONS (TUBE) - ASTM A500 GRADE B (Fy = 46 KSI)
   PIPE SECTIONS - ASTM A53, GRADE B (Fy = 35 KSI)
   PLATE - ASTM A36 (Fy = 36 KSI)
   ROOF DECK - ASTM A653, GRADE 40 (Fy = 40 KSI), GALVANIZED (G60) WITH BAKED ENAMEL FINISH
   STEEL OUTRIGGERS - ASTM A653 GR. CS (Fy = 25 KSI), GALVANIZED (G90) PER ASTM 924
   STRUCTURAL BOLTS - ASTM A325
   ANCHOR BOLTS - ASTM F1554 GR. 36; ASTM A36; OR ASTM A307 MATERIAL (Fy = 36 KSI)
3. WELDING OF STRUCTURAL STEEL SHALL BE IN ACCORDANCE WITH LATEST ANSI / AWS D1.1
4. FIELD CONNECTIONS SHALL BE BOLTED CONNECTIONS UNLESS SPECIFIED ON DRAWING.
5. ALL STRUCTURAL BOLTED CONNECTIONS SHALL USE ASTM A325 BOLTS. BOLTED JOINTS SHALL BE TIGHTENED TO SNUG TIGHT PER LATEST RCSC SPECIFICATION.
6. STRUCTURAL STEEL SHALL BE SHOP COATED WITH RED-OXIDE RUST INHIBITIVE PRIMER. THE GENERAL CONTRACTOR SHALL PAINT THE CANOPY, INCLUDING BUT NOT LIMITED TO STEEL COLUMNS, CANOPY FRAMING AND EXPOSED STEEL.
7. DESIGN LOADS PER LOCAL BUILDING CODE REQUIREMENTS.

FIRE SUPPRESSION SYSTEM NOTES:

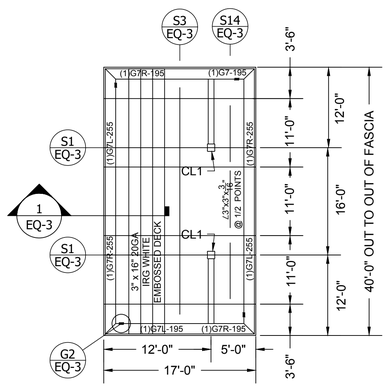
1. CONTRACTOR SHALL PROVIDE DETAILED FIRE SUPPRESSION SYSTEM DRAWINGS AND INSTALL SYSTEM AS INDICATED IN THE SPECIFICATIONS AND IN ACCORDANCE WITH MANUFACTURERS RECOMMENDATIONS.
2. SUPPRESSION SYSTEM COMPONENTS SHOWN ARE DIAGRAMMATIC ONLY AND DO NOT SHOW ALL OF THE SYSTEM COMPONENTS, PIPING, AND APPURTENANCES. SYSTEM SHALL INCLUDE MAIN ISLAND AND END ISLAND PROTECTION IN ACCORDANCE WITH MANUFACTURERS RECOMMENDATIONS. ACTUAL LAYOUT WILL BE DETERMINED BY THE CONTRACTOR IN ACCORDANCE WITH MANUFACTURERS RECOMMENDATIONS. THE FIRE SUPPRESSION SYSTEM SHALL PROTECT THE ENTIRE AREA UNDERNEATH THE CANOPY AND SHALL EXTEND TO THE OUTER ARC OF THE DISPENSER HOSES SHOWN ON EQ201. CANOPY COMPONENTS SHOWN SHALL BE MODIFIED AS NEEDED PER MANUFACTURER REQUIREMENTS.
3. SYSTEM SHALL ALSO BE EQUIPPED WITH NECESSARY SWITCHES/APPURTENANCES TO COMMUNICATE WITH THE BUILDING FIRE ALARM SYSTEM. FIRE ALARM SYSTEM IS TO NOTIFY THE FIRE DEPARTMENT IF THERE IS LOSS IN DRY CHEMICAL CYLINDER AND/OR IF THE SYSTEM HAS BEEN ACTIVATED.
4. ALL CONNECTIONS TO ELECTRICAL CONTROL HEAD MUST BE MADE IN AN APPROVED JUNCTION BOX.
5. WIRING LOCATED OUTDOORS, ON TOP OF CANOPY, SHALL BE ROUTED THROUGH WEATHERPROOF, LIQUID TIGHT CONDUIT AND FITTINGS.
6. ALL CONNECTIONS MADE OUTDOORS WILL BE MADE INSIDE OF WEATHER-TIGHT JUNCTION BOXES: UL LISTED, SUNLIGHT RESISTANT.
7. ALL ELECTRICAL WIRING, MATERIALS, AND EQUIPMENT SHALL BE INSTALLED IN ACCORDANCE WITH NFPA 70 AND NATIONAL ELECTRIC CODE.
8. EXACT LOCATION OF WIRING MAY VARY ACCORDING TO MANUFACTURERS RECOMMENDATIONS.
9. FIRE SUPPRESSION SYSTEM SHALL BE DESIGNED AND STAMPED BY A NY LICENSED PROFESSIONAL ENGINEER AS SPECIFIED.
10. NOT ALL HEAT SENSORS ARE SHOWN. HEAT SENSORS SHALL BE INSTALLED PER MANUFACTURER AND BUILDING CODE/NFPA REQUIREMENTS.



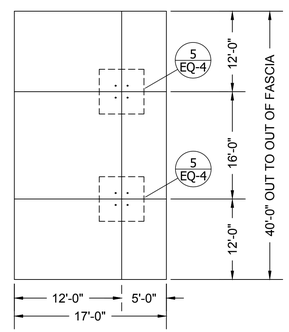
1 END ELEVATION
SCALE: N.T.S.



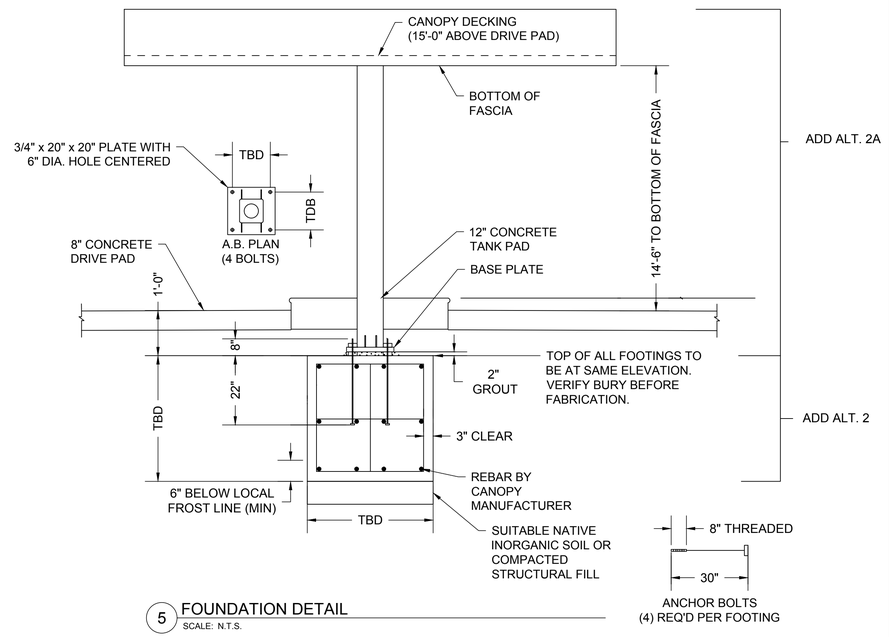
2 SIDE ELEVATION
SCALE: N.T.S.



3 CANOPY PLAN
SCALE: N.T.S.



4 FOUNDATION PLAN
SCALE: N.T.S.



5 FOUNDATION DETAIL
SCALE: N.T.S.

Project:

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1896

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PROFESSIONAL ENGINEER

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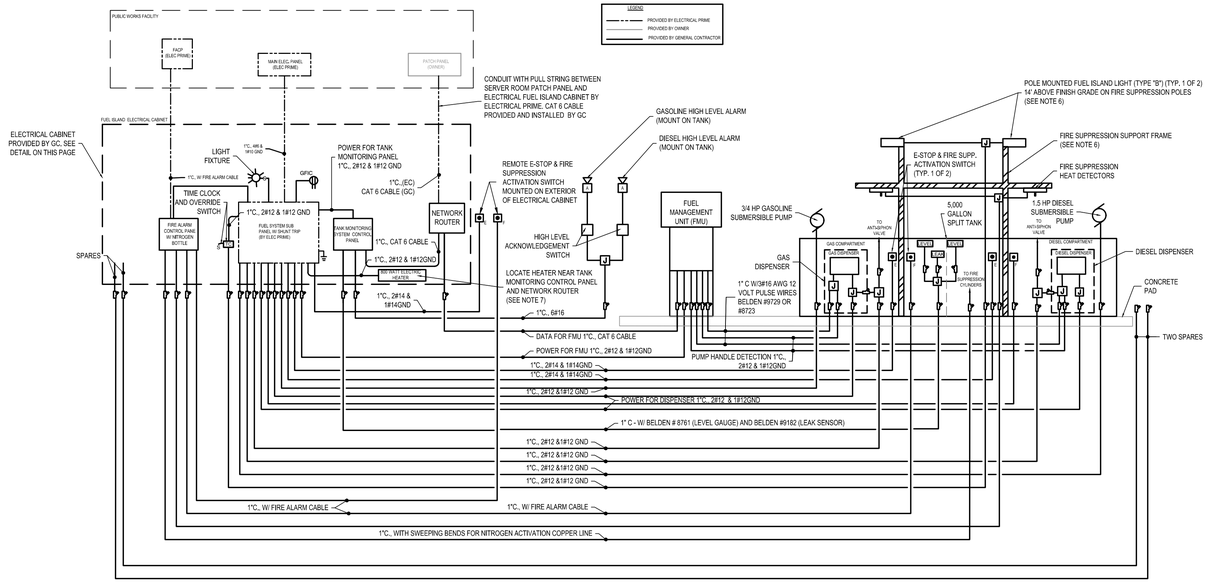
CANOPY DETAILS II

ADD ALTERNATE 2A

Sheet Number:

EQ205



1 FUEL ISLAND ONE LINE DETAIL (ADD ALTERNATE 2)

SCALE: N.T.S.

NOTES:

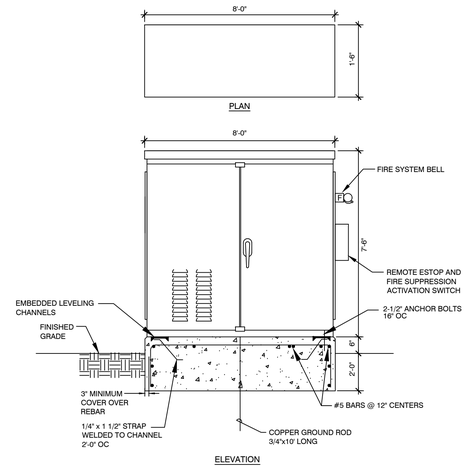
1. GENERAL CONTRACTOR SHALL PROVIDE ALL EQUIPMENT CONDUITS, SEALS, AND WIRING DOWN STREAM OF THE FUEL ISLAND ELECTRICAL SUB-PANEL. SUB PANEL SHALL BE PROVIDED BY THE ELECTRICAL PRIME.
2. THIS DETAIL IS A SCHEMATIC AND SHOWS THE GENERAL LAYOUT OF THE FUEL SYSTEM CONDUITS ONLY. THE CONTRACTOR SHALL PROVIDE ALL EQUIPMENT, MATERIALS, LABOR, ETC. INCLUDING CONDUIT, SEALS, JUNCTION BOXES, E-STOPS, WIRING, AND ALL OTHER APPURTENANCES AS NEEDED IN ORDER TO PROVIDE A COMPLETE AND OPERABLE SYSTEM.
3. ALL ABOVE GRADE CONDUITS SHALL BE 1" GALVANIZED RIGID STEEL W/ 3#12 & 1#12 GND THHN / THWN STRANDED CONDUCTORS UNLESS OTHERWISE NOTED. ALL BELOW GRADE CONDUITS SHALL BE 1" SCHEDULE 80 PVC W/ 3#12 & 1#12 GND THHN / THWN STRANDED CONDUCTORS UNLESS SPECIFIED OTHERWISE.
4. CONTRACTOR SHALL CONFIRM EXACT CONDUIT, WIRING AND EQUIPMENT REQUIREMENTS WITH SPECIFIC EQUIPMENT MANUFACTURER'S REQUIREMENTS PRIOR TO INSTALLATION.
5. ALL EMERGENCY SHUTOFFS AND DISCONNECTS WITHIN 20' OF THE FUEL DISPENSING EQUIPMENT SHALL BE INTRINSICALLY SAFE.
6. IF ADD ALTERNATE 2A (FUEL ISLAND CANOPY) IS SELECTED,THE FIRE SUPPRESSION SUPPORT FRAME SHALL NOT BE INSTALLED AND THE FOLLOWING SHALL BE INSTEAD MOUNTED IN THE CANOPY:
   - 6.1. FUEL ISLAND LIGHTS (SEE LIGHTING FIXTURE SCHEDULE NOTES BELOW)
   - 6.2. FIRE SUPPRESSION HEAT DETECTORS
   - 6.3. FIRE SUPPRESSION CYLINDERS
   - 6.4. SECURITY CAMERAS (PROVIDED BY OWNER)
7. THE ELECTRIC HEATER SHALL BE A THERMOSTATICALLY CONTROLLED, FAN DRIVEN HEATER THAT MAINTAINS A STABLE ENCLOSURE TEMPERATURE. THE HEATER SHALL BE HAVE THE FOLLOWING MINIMUM REQUIREMENTS:
   - 7.1. ALUMINUM HOUSING
   - 7.2. THERMOSTAT RANGE ADJUSTABLE FROM 0 F TO 100 F
   - 7.3. BALL BEARING FAN
   - 7.4. UNIT SHALL BE AS MANUFACTURED BY HOFFMAN CATELOG # DAH8001B , OR APPROVED EQUAL.
8. THE NETWORK ROUTER SHALL HAVE A MINIMUM OF 4 LAN CONNECTION PORTS. ROUTER SHALL BE AS MANUFACTURED BY D-LINK MODEL DI-604, OR APPROVED EQUAL.

FUEL ISLAND LIGHT FIXTURE SCHEDULE

TYPE	TYPE	MANUFACTURER	CATALOG NUMBER	MOUNTING	REMARKS
A	RECESSED CANOPY LED AREA LIGHT (ADD ALTERNATE 2A)	CREE	#CAN-304-PS-RS-04-E-UL-WH-700	RECESS CANOPY	TIME CLOCK CONTROLLED
B	POLE MOUNTED LED AREA LIGHT (ADD ALTERNATE 2)	CREE	#OSQ-HO-A-NM-4ME- 40L-40K-UL-BK-R	POLE MOUNTED	TIME CLOCK CONTROLLED

NOTES:

1. IF BID ALTERNATE 2A IS SELECTED THE CONTRACTOR SHALL FURNISH SIX (6) TYPE "A" RECESSED CANOPY LED AREA LIGHTS. THE SIX (6) LIGHTS SHALL BE EVENLY SPACED IN THE DECKING OF THE CANOPY.
2. IF BID ALTERNATE 2A IS NOT SELECTED THE CONTRACTOR SHALL FURNISH TWO (2) TYPE "B" POLE MOUNTED LED AREA LIGHTS. THE TWO POLE MOUNTED LIGHTS SHALL BE SUPPORTED ON THE FIRE SUPPRESSION SUPPORT POLES AS INDICATED IN THE ONE LINE DETAIL, SHOWN ABOVE ON THIS SHEET.



2 PAD MOUNTED ELECRICAL CABINET DETAIL

SCALE: N.T.S.

NOTES:

1. CONTRACTOR SHALL COORDINATE WITH THE EXACT CABINET SIZE WITH ALL MANUFACTURER EQUIPMENT SIZES PRIOR TO SUBMITTING THE CABINET FOR APPROVAL. PROVIDE A SCALED DRAWING SHOWING ALL EQUIPMENT.
2. FUEL ISLAND ELECTRICAL CABINET SHALL BE STAINLESS STEEL NEMA 3R RATED CABINET WITH THE FOLLOWING MINIMUM REQUIREMENTS:
   - 2.1. SLOPED ROOF AND OPEN BOTTOM
   - 2.2. CONTINUOUS STAINLESS STEEL HINGES
   - 2.3. FILTERED LOUVERS IN LEFT HAND DOOR
   - 2.4. STAINLESS STEEL 3-POINT PAD LOCKABLE HANDLE
   - 2.5. TWO STEEL BACK PANELS PAINTED WHITE FOR MOUNTING DEVICES IN CABINET

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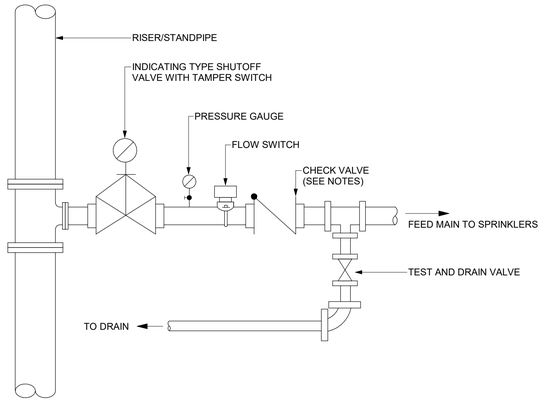
FUEL ISLAND ONE-LINE DIAGRAM

ADD ALTERNATE 2

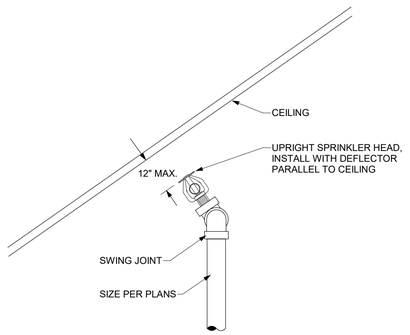
Sheet Number:

EQ206



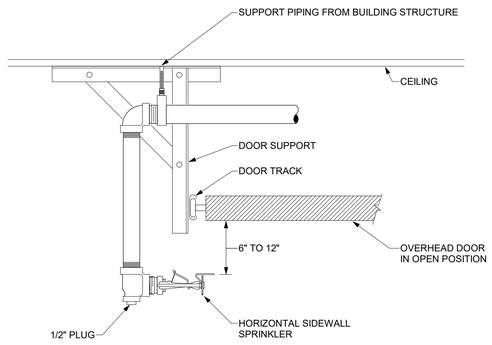
1 SPRINKLER FLOOR CONTROL ASSEMBLY DETAIL

NOT TO SCALE



3 SPRINKLER AT SLOPED CEILING DETAIL

NOT TO SCALE



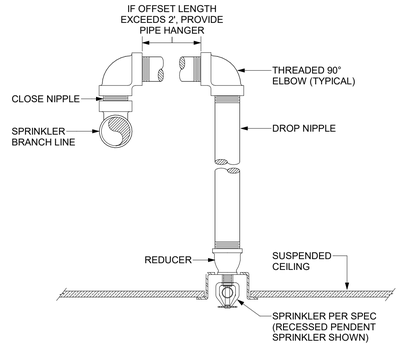
DETAIL NOTES:

A. SUPPORT PIPING FROM BUILDING STRUCTURE. DO NOT HANG PIPING FROM OVERHEAD DOOR SUPPORTS OR TRACK.

B. COORDINATE INSTALLATION WITH MOVING PARTS OF DOOR ASSEMBLY

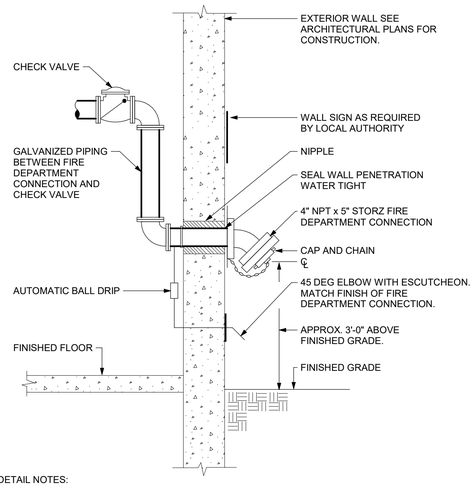
4 SPRINKLER BELOW OVERHEAD DOOR

NOT TO SCALE



2 RETURN BEND DETAIL

NOT TO SCALE



DETAIL NOTES:

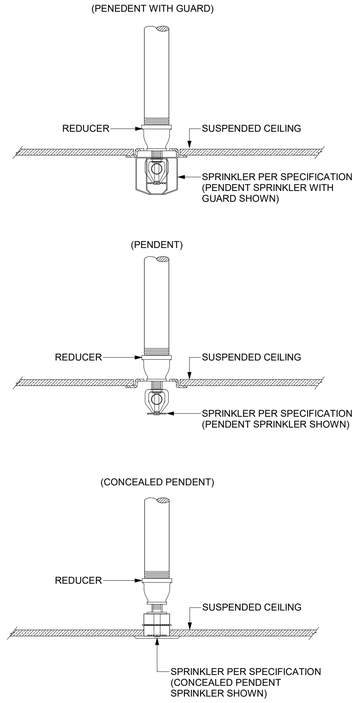
A. FIRE DEPARTMENT CONNECTION SHALL MATCH LOCAL FIRE DEPARTMENT TYPE, THREAD AND SIZE.

B. FIRE DEPARTMENT CONNECTION SHALL NOT BE OBSCURED OR BLOCKED BY PLANTINGS.

C. STORZ FIRE DEPARTMENT CONNECTIONS: PROVIDE 22-1/2º ELBOW FOR EASE OF TENSION ON FIRE HOSE CONNECTION IF INSTALLED GREATER THAN 2'-6" ABOVE FINISHED GRADE.

5 FIRE DEPARTMENT CONNECTION DETAIL

NOT TO SCALE



FIRE PROTECTION SYMBOL LIST	
SYMBOL	DESCRIPTION
	POINT OF CONNECTION
NTS	NOT TO SCALE
AFF	ABOVE FINISHED FLOOR
GC	GENERAL CONTRACTOR
MC	MECHANICAL CONTRACTOR
PC	PLUMBING CONTRACTOR
EC	ELECTRICAL CONTRACTOR
	NEW PIPING
FP	FIRE PROTECTION SERVICE (FP)
S	SPRINKLER MAIN/BRANCH PIPING (S)
D	SPRINKLER DRAIN PIPING (D)
	ELBOW DOWN
	45°OFFSET
	ELBOW UP
	BOTTOM/TEE CONNECTION
	TOP TEE CONNECTION
	PIPE CONTINUATION
	DRAIN VALVE
	CHECK VALVE
	BACKFLOW PREVENTER (BFP)
TS	SHUT-OFF VALVE WITH TAMPER SWITCH (TS)
	FIRE DEPARTMENT CONNECTION (FDC)
X	DRAWING KEYNOTE

FIRE PROTECTION GENERAL NOTES:

A. THE WORK COVERED CONSISTS OF FURNISHING ALL LABOR AND MATERIAL NECESSARY TO INSTALL, COMPLETE AND READY FOR CONTINIOUS OPERATION, THE FIRE PROTECTION SYSTEM(S), APPARATUS AND EQUIPMENT FOR THIS PROJECT, AS SHOWN ON DRAWINGS, DESCRIBED IN SPECIFICATIONS, AS REQUIRED BY NFPA 13 2016 ED. AND THE AUTHORITY HAVING JURISDICTION.

B. THIS PROJECT IS "DESIGN BUILD". THESE DRAWINGS AND SPECIFICATIONS ARE INTENDED TO INDICATE MINIMUM WORK AND MINIMUM STANDARDS FOR EQUIPMENT, MATERIALS AND PROCEDURES.

C. ANY AND ALL PERMITS REQUIRED FOR INSTALLATION OF ANY MATERIAL SHALL BE OBTAINED BY THE SPRINKLER CONTRACTOR AS PART OF THE WORK, INCLUDING ALL FEES OR EXPENSES INCURRED.

D. ROUTING OF SPRINKLER MAINS, BRANCHES, AND SPRINKLERS SHALL BE THOROUGHLY COORDINATED BY THE SPRINKLER CONTRACTOR WITH OTHER TRADES AND BUILDING STRTUCTURE PRIOR TO SUBMISSION OF COORDINATED SHOP DRAWINGS, ORDERING OF FABRICATED PIPING AND INSTALLATION.

E. THE SPRINKLER CONTRACTOR SHALL PERFORM A NEW HYDRANT FLOW TEST AND SHALL BASE THE HYDRAULIC CALCULATIONS ON THESE RESULTS.

F. PRESSURE TEST ALL NEW PIPING AND ALARMS PER NFPA 13 2016 ED. COMPLETE AND FILE ALL REPORTS AND CERTIFICATIONS REQUIRED. SUBMIT TO OWNER COPIES OF ALL REPORTS AND CERTIFICATIONS, TOGETHER WITH A COPY OF NFPA 25 2016 ED.

G. ALL SPRINKLER SYSTEM PIPING IN FINISHED AREAS SHALL BE CONCEALED ABOVE CEILINGS UNLESS OTHERWISE NOTED.

H. SPRINKLERS INSTALLED IN AREAS WITH NO FINISH CEILING SHALL BE LOCATED AS HIGH AS POSSIBLE. SPRINKLERS SUBJECT TO PHYSICAL DAMAGE, OR WITH A DEFLECTOR ELEVATION 7'-6" OR LESS, SHALL BE INSTALLED WITH APPROVED AND LISTED SPRINKLER GUARDS.

I. WHERE SPRINKLER PIPING IS LEFT EXPOSED, THE SPRINKLER CONTRACTOR SHALL CLEAN PIPING AND COORDINATE PAINTING WITH ARCHITECT.

J. THE SPRINKLER CONTRACTOR SHALL PROVIDE SPRINKLER PROTECTION UNDER ALL MECHANICAL DUCTWORK OR OTHER OBSTRUCTION IN EXCESS OF 4'-0" IN WIDTH, IN EXPOSED STRUCTURE AREAS, IN ACCORDANCE WITH NFPA 13 2013 ED.

K. ALL PIPING THROUGH CONCRETE FLOORS AND FIRE RATED WALLS OR PARTITIONS SHALL BE PROVIDED WITH SLEEVES AND FIRE STOPPED WITH UL RATED ASSEMBLIES OF EQUAL FIRE RATING.

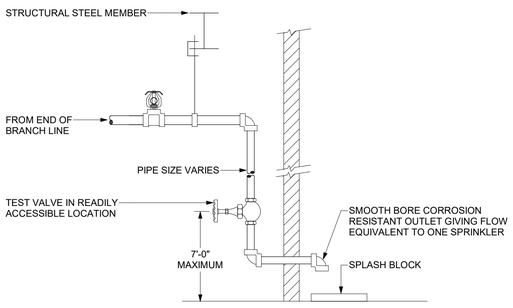
L. THE FIRE SPRINKLER CONTRACTOR SHALL BE RESPONSIBLE FOR THE REMOVAL, STORAGE AND CUTTING OF ANY CEILING TILES TO ACCOMMODATE SPRINKLERS AND PIPING. THE SPRINKLER CONTRACTOR SHALL ALSO REINSTALL THE CEILING TILES UPON COMPLETION OF THE WORK AND REPLACE ANY DAMAGED TILES.

M. THE SPRINKLER CONTRACTOR SHALL DELIVER MATERIAL TO THE JOB, UNLOAD AND STORE MATERIALS IN A LOCATION AS DETERMINED BY THE OWNER'S REPRESENTATIVE.

N. THE SPRINKLER CONTRACTOR SHALL MAINTAIN THE WORK PREMISES FREE FROM ACUMMALATION OF WASTE MATERIAL OR REFUSE COVERED BY THIS WORK. AT THE COMPLETION OF THE WORK, REMOVE ALL SURPLUS MATERIALS, TOOLS, ETC. AND LEAVE THE PRMESES CLEAN.

O. THE SPRINKLER CONTRACTOR SHALL PROVIDE PROPER SIESMIC RESTRAINTS FOR ALL NEW PIPING IN ACCORDANCE WITH NFPA 13 2016 ED. AND AS REQUIRED BY ASCE 7

P. THESE SPRINKLER DRAWINGS ARE DIAGRAMMATIC AND SHOWN AS A REPRESENTATIVE DESIGN ONLY. THE CONTRACTOR SHALL VISIT THE SITE, READ ALL DRAWINGS, AND MAKE DETAILED NOTES OF NECESSARY OFFSETS REQUIRED FOR INSTALLATION OF THE WORK.



DETAIL NOTE:

A. NOT LESS THAN 4' OF EXPOSED TEST PIPE IN WARM ROOM BEYOND VALVE WHEN PIPE EXTENDS THRU WALL TO OUTSIDE

6 INSPECTOR'S TEST CONNECTION DETAIL (WET SYSTEM)

NOT TO SCALE

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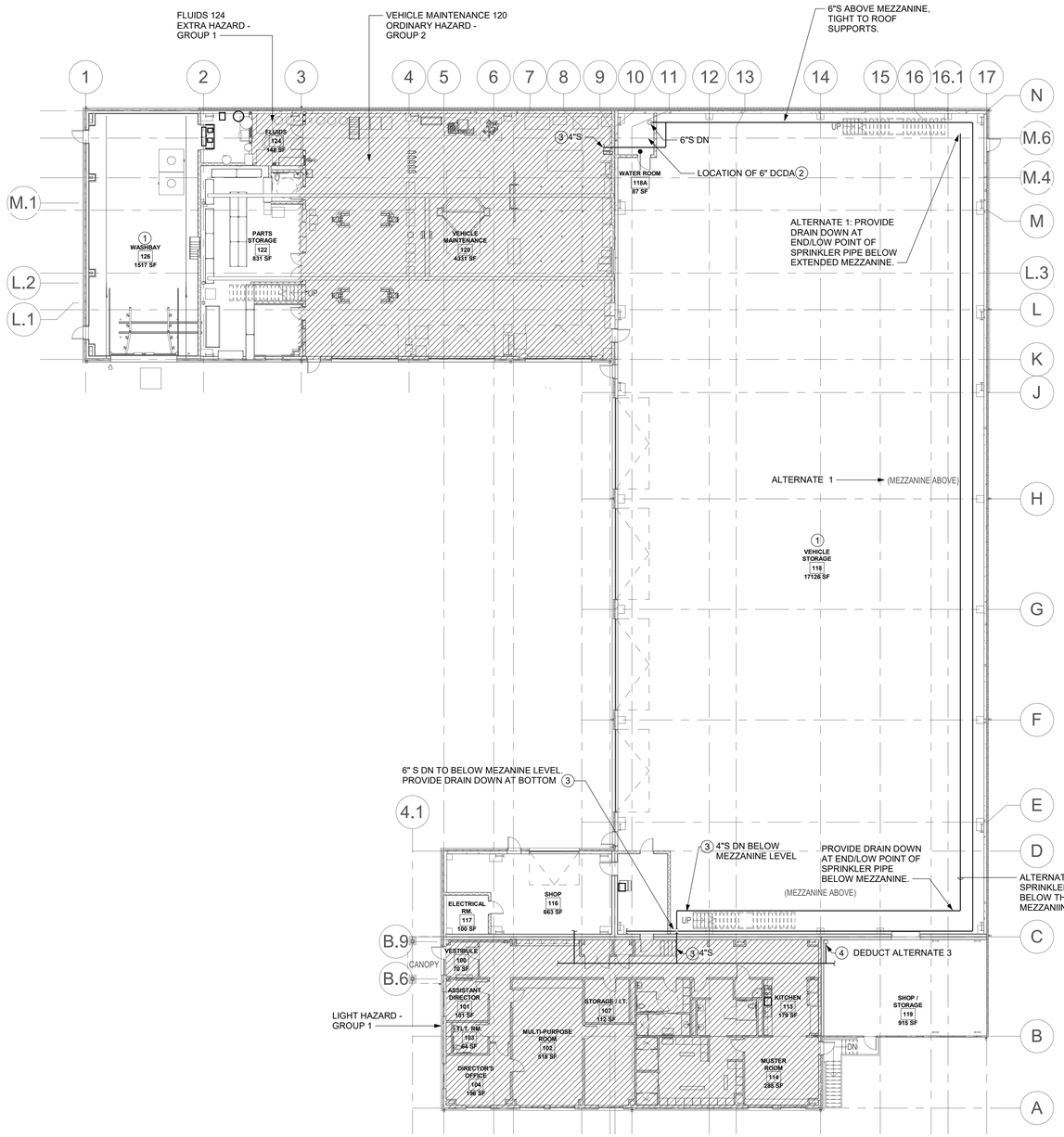
FIRE PROTECTION SCHEDULES, GENERAL NOTES & SYMBOLS LIST

Sheet Number:

FP001



FP101 DRAWING NOTES

1 FIRE HAZARD CLASSIFICATION SHALL BE ORDINARY HAZARD GROUP 1 UNLESS OTHERWISE NOTED.

2 FIRE SERVICE BACK FLOW PREVENTOR PROVIDED BY THE PLUMBING CONTRACTOR. COORDINATE SIZE AND CLEARANCE REQUIRMENTS WITH THE PC BASED ON THE RESULTS OF THE HYDRAULIC CALCULATIONS. REFER TO THE PLUMBING DRAWINGS FOR ROOM LAYOUT.

3 SPRINKLER MAIN SIZES INDICATED ARE FOR SUGGESTED ROUTING REFERENCE ONLY. THIS CONTRACTOR SHALL HYDRAULICALLY CALULATE AND CONFIRM ALL MAINS AND BRANCH PIPING.

4 DEDUCT ALTERNATE No. 3: 2"S DN TO BASEMENT LEVEL. PROVIDE DRAIN DOWN AT BOTTOM.

1 OVERALL FIRST FLOOR FIRE PROTECTION PLAN

1/16" = 1'-0"

0' 8' 16' 32'

Project:

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Reviewed By:	PJW
Approved By:	BAB
W&S Project No:	N2190088

Drawing Title:

OVERALL FIRE PROTECTION FLOOR PLAN

Sheet Number:

FP101

GENERAL NOTES:

A. ALL WORK AND MATERIALS SHALL BE IN ACCORDANCE WITH CURRENT LOCAL CODES AND PROJECT SPECIFICATIONS.
B. THE PLUMBING CONTRACTOR SHALL COORDINATE ALL PIPING WITH MECHANICAL, ELECTRICAL, ARCHITECTURAL, AND STRUCTURAL TRADES PRIOR TO CONSTRUCTION TO AVOID ITERFERENCE.
C. PROVIDE ACCESS PANELS FOR ALL CONCEALED VALVES, WATER HAMMER ARRESTORS, TRAPS, ETC.
D. PROVIDE TRAP GUARDS FOR ALL P-TRAPS FOR FLOOR DRAINS LOCATED IN MECHANICAL ROOMS, PUBLIC RESTROOMS AND OTHER AREAS WHERE TRAP EVAPORATION MAY OCCUR.
E. PLUMBING CONTRACTOR SHALL CONNECT ALL ITEMS OF EQUIPMENT FURNISHED BY OTHERS AND UNDER OTHER SECTIONS OF THE SPECIFICATIONS. CONTRACTOR SHALL PROVIDE ALL ITEMS NECESSARY TO COMPLETE THE PLUMBING INSTALLATION.
F. REFER TO ARCHITECTURAL DRAWING FOR ROUGHING DIMENSIONS OF PLUMBING FIXTURE MOUNTINGS HEIGHTS.
G. PROVIDE UNIONS FOR ALL PIPING CONNECTIONS TO EQUIPMENT.
H. ALL PLUMBING FIXTURES AND EQUIPMENT SHALL BE IN COMPLIANCE WITH CURRENT APPLICABLE ENERGY CONSERVATION CODES.
I. ALL PIPING AND EQUIPMENT IS SHOWN DIAGRAMMATICALLY ONLY. GENERAL ORIENTATION SHOWN IN PLAN AND SECTIONAL DRAWINGS. EXACT LOCATION SHALL BE DETERMINED IN FIELD. MAINTAIN HEAD ROOM AND SPACE CONDITIONS AT ALL TIMES. ALL WORK SHALL BE COORDINATED WITH ALL TRADES BEFORE PROCEEDING WITH INSTALLATION. PRIOR TO CONSTRUCTION, CONTRACTOR SHALL NOTIFY ARCHITECT OF ANY DISCREPANCIES. PRIOR TO EQUIPMENT SUBMITTALS, CONTRACTOR SHALL VERIFY EXISTING AND PROPOSED CONDITIONS SUCH AS CORRIDORS, PASSAGE-WAY ROOM SIZES, ETC. TO ENSURE SPECIFIED EQUIPMENT CAN BE PROPERLY INSTALLED.
J. FABRICATE AND INSTALL ALL PIPING IN ACCORDANCE WITH THE STATE PLUMBING CODE, LOCAL PLUMBING CODE, AND APPLICABLE SECTIONS OF THE BUILDING CODES.
K. INSTALL PIPING CLOSE TO WALLS, PARTITIONS, CEILINGS, ETC. OFFSET ONLY WHERE NECESSARY TO FOLLOW WALLS, AS INDICATED. PROVIDE ALL NECESSARY FITTINGS, OFFSETS, VALVES AND OTHER DEVICES REQUIRED FOR A COMPLETE INSTALLATION.
L. INSTALL PIPING IN A CONCEALED MANNER, STRAIGHT, PLUMB AND AS DIRECT AS POSSIBLE. FORM RIGHT ANGLES PARALLEL WITH BUILDING WALLS. LOCATE GROUPS OF PIPES PARALLEL TO EACH OTHER. PIPE SHALL BE LOCATED TO PERMIT ACCESS FOR SERVICE VALVES.
M. CONCRETE PADS, PITS, AND FLASHING FOR PLUMBING EQUIPMENT SHALL BE AS INDICATED ON THE STRUCTURAL AND ARCHITECTURAL PLANS, UNLESS NOTED OTHERWISE. COORDINATE EXACT SIZES OF REQUIRED OPENINGS AND SUPPORTS FOR FURNISHED EQUIPMENT.
N. ALL PIPING SHALL BE REAMED TO BE FREE OF BURRS. KEEP PIPING FREE FROM SCALE AND DIRT. PROTECT OPEN PIPE ENDS WHENEVER WORK IS SUSPENDED DURING CONSTRUCTION TO PREVENT FOREIGN MATERIAL FROM ENTERING, AND CAP ALL OPEN ENDS DURING CONSTRUCTION WITH APPROVED TEMPORALLY CAPS OR MATERIALS.
O. ALL GAS PIPING AND OTHER PLUMBING SYSTEMS SHALL BE SEISMICALLY BRACED IN ACCORDANCE WITH THE APPLICABLE SECTIONS OF THE STATE BUILDING CODE AND THE NATIONAL FIRE PROTECTION ASSOCIATION (NFPA). SEAL ALL WALL AND FLOOR PENETRATIONS AROUND NEW PIPES WITH FIRE PROOF CAULKING.
P. MAINTENANCE LABELS SHALL BE AFFIXED TO ALL PLUMBING EQUIPMENT AND MAINTENANCE AND OPERATION MANUALS SHALL BE PROVIDED TO OWNER.
Q. INSTALL WELDED OR THREADED PIPE IN AREAS WHERE SPACE IS CRITICAL BETWEEN FINISHED CEILING AND STRUCTURAL SURFACE. INSTALL ALL VENTS THRU ROOF 10'-0" MINIMUM FROM EDGE OF ROOF AND 25'-0" FROM FRESH AIR INTAKES.
R. SUBMIT ALL REQUIRED PLUMBING DOCUMENTS TO LOCAL PLUMBING OFFICIAL FOR APPROVAL. THE ENTIRE PLUMBING SYSTEM SHALL BE INSTALLED IN COMPLIANCE WITH ALL APPLICABLE BUILDING CODES, REGULATIONS, AND LOCAL REQUIREMENTS.
S. SUBMIT APPROVED PRESSURE REDUCING VALVES & BACKFLOW PREVENTION DEVICES TO WATER AUTHORITY. CONTRACTOR SHALL PROVIDE ALL NECESSARY DEVICES PER WATER AUTHORITY REQUIREMENTS AND MANUFACTURER RECOMMENDATIONS.
T. ALL WALL, CEILING AND FLOOR PENETRATIONS CONVEYING PLUMBING AND DRAINS SHALL BE FULLY SEALED AND CAULKED AROUND THE PENETRATING FEATURE TO RESTORE THE REQUIRED FIRE OR SMOKE BARRIER RATING OF THE WALL, CEILING OR FLOOR PENETRATED. AT A MINIMUM, AT ALL LOCATIONS A TWENTY (20) MINUTE FIRE/SMOKE RESISTANCE SHALL BE MAINTAINED. WHERE REQUIRED BY CODE, THE PENETRATING FEATURES SHALL ALSO BE SUPPLIED AND INSTALLED WITH A MECHANISM OR MATERIAL WHICH WILL MAINTAIN THE WALL, CEILING OR FLOOR RATING IN THE EVENT OF A FIRE.
U. PLUMBING OR SPRINKLER RELATED PIPE SHALL NOT PENETRATE INTO OR PASS THROUGH STAIRWAYS UNLESS IT IS REQUIRED FOR SERVICING THE STAIRWAY OR IT IS SEGREGATED FROM THE STAIRWAY PASSAGEWAY BY AN ENCLOSURE SYSTEM RATED EQUAL TO OR GREATER THAN THE REQUIRED STAIRWAY RATING.
V. PROVIDE FLUSH TYPE ACCESS DOORS OR PANELS NO SMALLER THAN 12"x12" AND NO LARGER THAN 30"x30" FOR ALL VALVES OR APPARATUS LOCATED IN CHASES, WALLS, AND NON ACCESSIBLE CEILINGS, OR FLOORS.
W. INSTALL WATER HAMMER ARRESTORS IN COMPLIANCE WITH ALL APPLICABLE CODES. SIZE OF WATER HAMMER ARRESTORS SHALL BE ACCORDING TO THE WATER HAMMER SCHEDULE AND MANUFACTURER'S RECOMMENDATIONS FOR THAT BRANCH LINE.
X. CLEANOUTS SHALL BE PROVIDED AS INDICATED ON PLANS AND AS REQUIRED BY THE LOCAL CODES.
Y. PRIOR TO INSTALLING ANY PIPING, VERIFY EXISTING OR NEW INVERT ELEVATIONS, LOCATIONS AND PIPE SIZES. INSTALL ALL SANITARY AND WASTE BEGINNING AT LOW POINT OF EACH SYSTEM AND CONTINUE WITH UNBROKEN CONTINUITY OF INVERT. LOW POINT OF EACH
Z. SYSTEM SHALL BE COORDINATED WITH SITE UTILITIES CONTRACTOR. REFER TO SITE UTILITY PLANS FOR REFERENCE.
AA. DRAIN VALVES SHALL BE PROVIDED ON LOWEST POINT OF ALL DOMESTIC WATER RISERS AS FOLLOWS: 1-1/2" OR LESS-PROVIDE 1/2" DRAIN VALVE. 2" OR LARGER-PROVIDE 3/4" DRAIN VALVE.
BB. PROVIDE ISOLATION VALVES AT ALL FIXTURES AND EQUIPMENT.
CC. PLUMBING CONTRACTOR SHALL INSTALL GAS VENTS FOR ALL GAS MANIFOLD/TRAIN SYSTEMS LOCATED AT BOILERS OR WATER HEATERS. PRIOR TO CONSTRUTION, CONTRACTOR SHALL REVIEW THE EXISTING CONDITIONS TO DETERMINE MOST ECONOMICAL ROUTE FOR MANIFOLD VENTS BEGINNING AT EQUIPMENT AND EXTENDING THROUGH ROOF.

PLUMBING SYMBOL LIST

SYMBOL	DESCRIPTION
	POINT OF CONNECTION
NTS	NOT TO SCALE
AFF	ABOVE FINISHED FLOOR
BFF	BELOW FINISHED FLOOR
VTR	VENT THRU ROOF
GC	GENERAL CONTRACTOR
MC	MECHANICAL CONTRACTOR
PC	PLUMBING CONTRACTOR
EC	ELECTRICAL CONTRACTOR
	NEW PIPING LOCATED ABOVE FLOOR/SLAB
	NEW PIPING LOCATED BELOW FLOOR/SLAB
	COLD WATER PIPING (CW)
	HOT WATER PIPING (HW)
	HOT WATER RECIRCULATING PIPING (HWR)
W	WATER SERVICE - EXTERIOR
SAN	SANITARY SEWER PIPING
V	VENT PIPING (V)
G	NATURAL GAS PIPING (G)
OW	OIL/WATER WASTE PIPING (OW)
CA	COMPRESSED AIR PIPING (CA)
	ELBOW DOWN
	45°OFFSET
	ELBOW UP
	BOTTOM/TEE CONNECTION
	TOP TEE CONNECTION
	"P" TRAP
	PIPE CONTINUATION
	CAP OR PLUG
	DECK PLATE CLEANOUT (DPCO)
	WALL PLATE CLEANOUT (WPCO)
	CLEANOUT (CO)
	FLOOR DRAIN (FD) / FLOOR SINK (FS)
	WALL HYDRANT (WH) / HOSE BIBB (HB)
	STRAINER
M	WATER METER
	SHUT OFF VALVE
	BALANCING VALVE
	CHECK VALVE
	SOLENOID VALVE
	PRESSURE REDUCING VALVE
	RELIEF VALVE
	UNION
	BACKFLOW PREVENTER (BFP)
	SHOWER HEAD
	SHOCK ABSORBER (SA)
	RECIRCULATION PUMP
	THERMOMETER
	PRESSURE GAUGE
X	DRAWING KEYNOTE

FIXTURE AND EQUIPMENT CONNECTION SCHEDULE

DESIGNATION	DESCRIPTION	COLD WATER	HOT WATER	WASTE OR SANITARY	VENT	REMARKS
WC-A	WATER CLOSET - PUBLIC - FLUSH VALVE	1"	-	3"	2"	ADA HEIGHT, WALL HUNG, ELONGATED, 1.28 GPF: AMERICAN STANDARD AFWALL. OPEN FRONT TOILET SEAT.
UR-A	URINAL -PUBLIC - FLUSH VALVE	3/4"	-	2"	1-1/2"	WALL MOUNTED, ELONGATED FLUSHING RIM, TOP SPUD, SLOAN G2 OPTIMA PLUS SENSOR BATTERY POWERED, 0.5 GPF: AMERICAN STANDARD WASHBROOK.
LAV-A	LAVATORY - ADA	1/2"	1/2"	1-1/2"	1-1/2"	AMERICAN STANDARD LUCERNE, WALL-HUNG, LAV GUARD
LAV-B	LAVATORY - PUBLIC - ADA	1/2"	1/2"	1-1/2"	1-1/2"	AMERICAN STANDARD, LAV GUARD
SK-A	KITCHEN SINK	1/2"	1/2"	1-1/2"	1-1/2"	ELKAY LUSTERTONE, ADA, STRAINER
SH-A	SHOWER - ADA	1/2"	1/2"	1-1/2"	1-1/2"	AQUATIC ADVANTAGE 16030BFSC, CENTER BRASS DRAIN, SLIP RESISTANT TEXTURED BOTTOM, VINYL FLEXIBLE DAM, REINFORCED FOR FOLDING SEAT AND GRAB BARS, CURTAIN ROD, SOAP DISH, MOEN 8346EP15 POSI-TEMP TRIM KIT, CHROME FINISH, HAND-HELD SHOWER WITH 30" SLIDE BAR, DROP ELL, 69" METAL HOSE, CHROME FINISH, 1.5 GPM.
FD-A	FLOOR DRAIN - STANDARD	-	-	2"	1-1/2"	JAY R SMITH FIGURE 2010,7" ADJUSTABLE STRAINER, TRAP GUARD
FD-B	FLOOR DRAIN - WITH RECESS	-	-	3"	1-1/2"	JAY R SMITH FIGURE 2010, 7" ADJUSTABLE STRAINER, TRAP GUARD, WITH RECESSED, ANTI-FLOOD RIM.
FD-C	FLOOR DRAIN - HEAVY DUTY	-	-	4",6"	-	JAY R SMITH FIGURE 21243C, 12" NICKEL BRONZE HINGED GRATE, SEDIMENT BUCKET, QUAD CLOSE TRAP SEAL,
TD-A	TRENCH DRAIN SYSTEM WITH CATCH BASIN	-	-	4",6"	-	ZURN Z882-HDG, GALVANIZED PRE-SLOPED TRENCH DRAIN SYSTEM, HIGH DENSITY POLYETHYLENE, EXTRA HEAVY DUTY 12" WIDE GRATE, EN1433 CLASSIFICATION 'E', GALVANIZED CATH BASIN WITH SEDIMENT BASKET.
EWC-A	WATER COOLER - ADA	1/2"	-	1-1/2"	1-1/2"	ELKAY EZSTL8LC, BI-LEVEL NON-FILTERING, 8 GPH.
MB-A	MOP BASIN	3/4"	3/4"	2"	1-1/2"	FIAT MODEL MSB
SS-A	SERVICE SINK	1/2"	1/2"	2"	1-1/2"	AMERICAN STANDARD AKRON

BACKFLOW PREVENTER SCHEDULE

NO.	AREA SERVED	USAGE	TYPE	ORIENTATION	INLET/ OUTLET SIZE (IN.)	INLET/ OUTLET SHUTOFF VALVE TYPE	MAX. WORKING PRESSURE (PSI)	FLOW AT 7.5 FPS (GPM)	PRESSURE DROP AT 7.5 FPS (PSI)	DESIGN MAKE
DCDA-1	DPW BLDG	FIRE WATER	DCDA	HORIZONTAL	6"	OSY	175	680	7.0	WATTS 709 DCDA
RPZ-1	DPW BLDG	DOMESTIC WATER	RPZ	HORIZONTAL	3"	OSY	175	170	12.0	WATTS LF909 RPZ
RPZ-2	WASHBAY	WASHBAY EQUIPMENT	RPZ	HORIZONTAL	1"	QUARTER TURN BALL	175	20	10.0	WATTS 009M2-QT-S

AIR COMPRESSOR SCHEDULE

NO.	LOCATION	SERVICE	ACFM	MAX. PRESSURE (PSIG)	MOTOR			TYPE	DESIGN MAKE
					HP	VOLTAGE	PHASE		
COMP-1	COMPRESSOR ROOM	TRUCK BAYS	92.4	175	15	480	3	DUPLEX RECIPROCATING	CHAMPION MODEL HR15-12

REMARKS:
1. INCLUDE 120 GALLON RECEIVER
2 INCLUDE REFRIGERANT DRYER
3. INCLUDE 400 GALLON DRY STORAGE TANK

WATER HEATER SCHEDULE

NO.	SERVICE	STORAGE VOLUME (GAL.)	BTUH INPUT	GALLONS/ HOUR...	TEMP RISE DEG F	FUEL TYPE	VENT IN INCHES	ELECTRIC	EFFICIENCY	DESIGN MAKE
WH-1	ADMIN	60	1200000	138	100	NAT GAS	3"	120V / 5A	95%	A.O. SMITH CYCLONE MXI BTH 120(A)
WH-2	VEHICLE MAINT.	60	1200000	138	100	NAT GAS	3"	120V / 5A	95%	A.O. SMITH CYCLONE MXI BTH 120(A)

MASTER MIXING VALVE SCHEDULE

TAG NO.	SERVICE	TYPE	DESIGN RANGE (GPM)	PEAK FLOW (GPM)	MAX. PRESSURE DROP AT PEAK FLOW (PSI)	CONNECTIONS			DESIGN MAKE
						HW INLET	CW INLET	MIXED OUTLET	
MMV-1	WH-1,WH-2	HIGH/LOW	0.5 - 159	60.0	10	1-1/4"	1-1/4"	1-1/2"	POWERS LFSH1434

PUMP SCHEDULE

NO.	LOCATION	SERVICE	GPM	HEAD FT WATER	MOTOR				TYPE	DESIGN MAKE
					HP	VOLTAGE	PHASE	RPM		
RP-1	MEZZANINE	ADMIN HWR	1.2	13.1	0.5	208	1	2225	INLINE	BELL & GOSSETT ECOCIRC XL 55-45

EXPANSION TANK SCHEDULE

NO.	LOCATION	SERVICE	RELIEF PRESSURE	TANK VOLUME (GALLONS)	MAX. ACCEPT FACTOR	DESIGN EQUIPMENT
ET-1	WH-1, WH-2	DOM. WATER	125 PSI	10	1.0	AMTROL ST-35-CL

SHOCK ABSORBER SCHEDULE

NO.	FIXTURE UNIT RATING	SIZE IN INCHES	PDI SYMBOL
SA-A	1 - 11	1/2"	A
SA-B	12 - 32	3/4"	B
SA-C	33 - 60	1"	C
SA-D	61 - 113	1 1/4"	D
SA-E	114 - 154	1 1/2"	E
SA-F	155 - 330	2"	F

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RHINEBECK ARCHITECTURE

Seal:

STATE OF NEW YORK · MICHAEL P. SUNDAY · 077887 · LICENSED PROFESSIONAL ENGINEER

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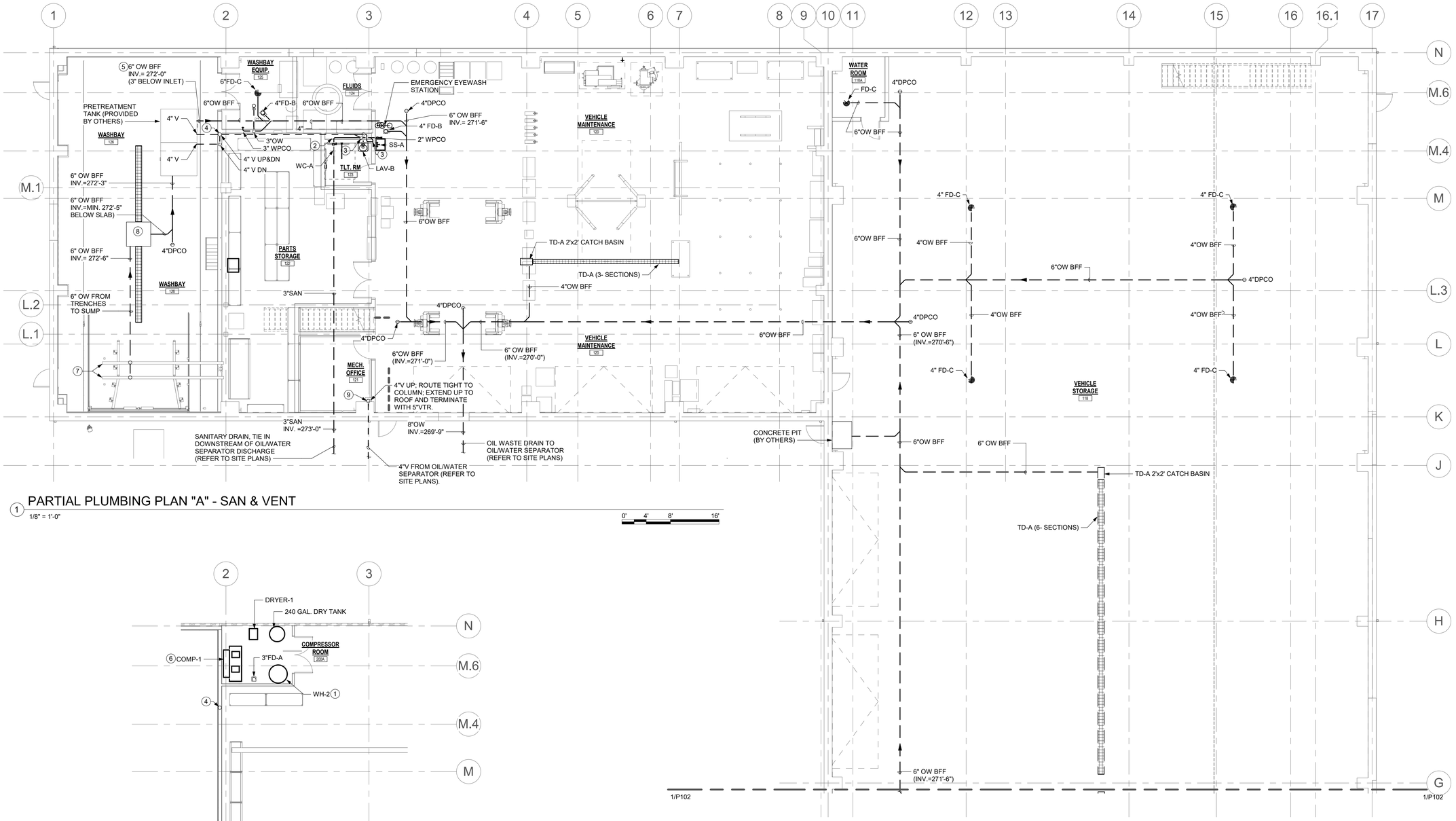
GENERAL NOTES, SCHEDULES & SYMBOL LIST

Sheet Number:

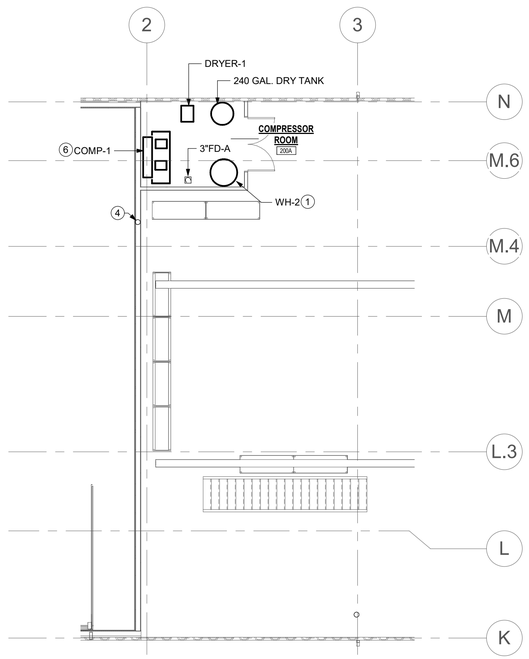
P001



1 PARTIAL PLUMBING PLAN "A" - SAN & VENT

1/8" = 1'-0"

0' 4' 8' 16'



2 MEZZANINE 1 FLOOR PLAN - PLUMBING SAN & VENT

1/8" = 1'-0"

0' 4' 8' 16'

P101 DRAWING NOTES

1. WH-2: ROUTE 3" AIR INTAKE AND EXHAUST PIPING THROUGH ROOF PER MANUFACTURER'S INSTRUCTIONS. ROUTE 3/4" CPVC CONDENSATE DRAIN TO CONDENSATE NEUTRALIZER AND DOWN TO FD-A. REFER TO DETAIL 6/P500 AND 5/P501 FOR MORE INFORMATION.
2. 3"SAN DN; 2"V UP.
3. 2"SAN DN;1-1/2"V UP.
4. 4"V UP; INCREASE TO 5" VTR
5. INVERTS REFERENCED FROM WASHBAY FLOOR SLAB OF 275'-0". VERIFY ALL DIMENSIONS WITH THE ARCHITECTURAL DRAWING SET.
6. PROVIDE 15HP RECIPROCATING COMPRESSOR WITH 120 GALLON RECEIVER, REFRIGERANT DRYER, AND 400 GALLON DRY STORAGE TANK, REFER TO SPECIFICATIONS.
7. VEHICLE WASH UNDERCARRIAGE TRENCHES (FURNISHED BY OTHERS, INSTALLED BY THE PC).
8. VEHICLE WASH SUMP AND TRENCH DRAINS (PROVIDED BY OTHERS).
9. 4"V UP; ROUTE TIGHT TO COLUMN; EXTEND UP TO ROOF AND TERMINATE WITH 5"VTR.

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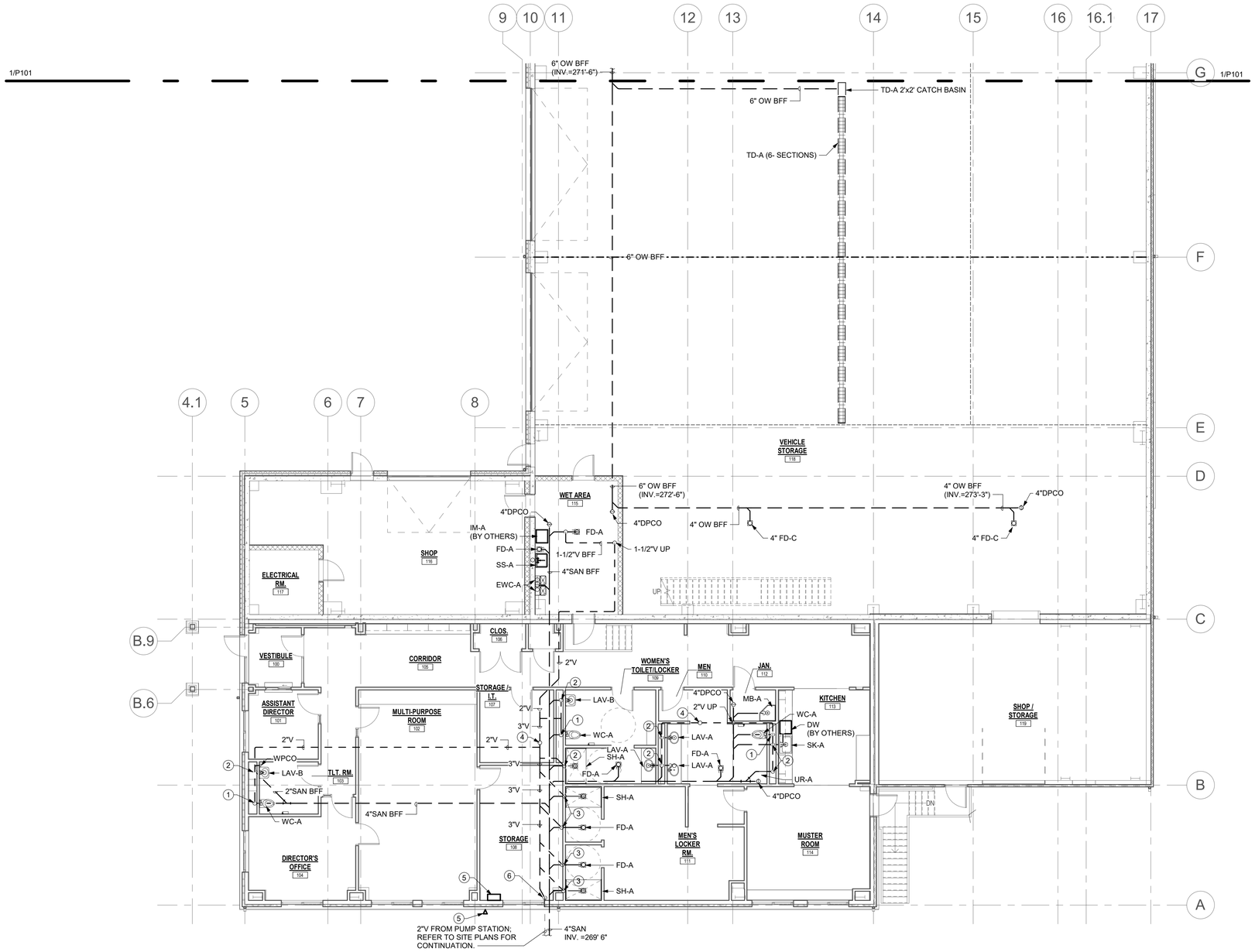
PARTIAL LARGE SCALE PLUMBING FLOOR PLANS AREA "A" - SANITARY & VENT

Sheet Number:

P101



1 PARTIAL LARGE SCALE FIRST FLOOR/ADMIN PLAN "B" SANITARY & VENT

1/8" = 1'-0"

0' 4' 8' 16'

P102 DRAWING NOTES

1. 3"SAN DN; 2"V UP.
2. 2"SAN DN; 1-1/2"V UP.
3. 1-1/2"V UP.
4. 3"V UP; 4"VTR.
5. PUMP STATION CONTROL PANEL AND EXTERNAL ALARM MODULE FURNISHED BY OTHERS. REFER TO THE CIVIL ENGINEERS CONTRACT DOCUMENTS AND DRAWINGS.
6. 2"VENT FROM PUMP STATION. ROUTE TIGHT TO COLUMN UP. CONNECT TO BUILDING'S SANITARY VENT ABOVE CEILING.

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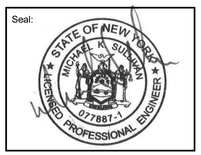

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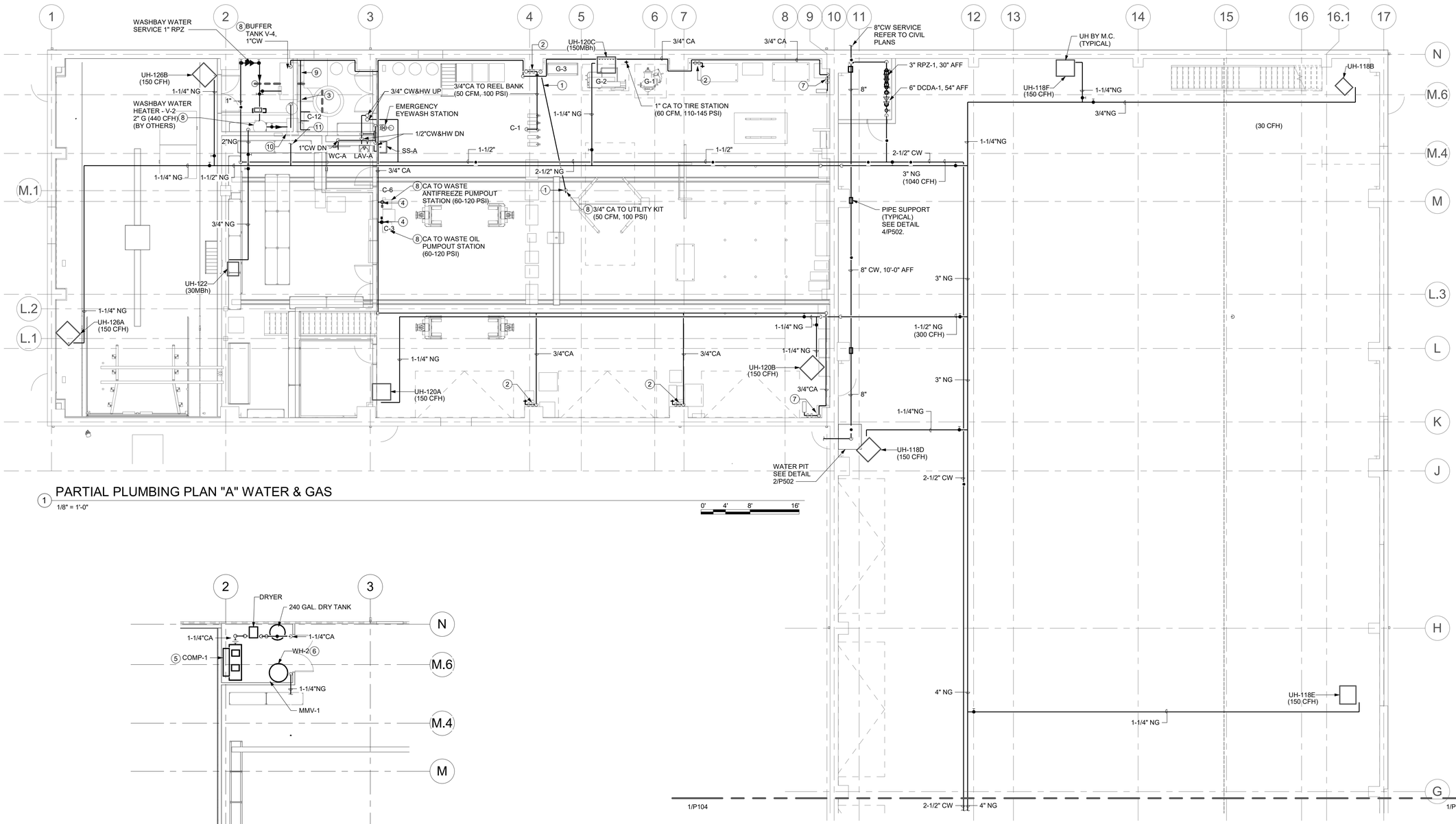
PARTIAL LARGE SCALE PLUMBING FLOOR PLANS - AREA "B" - SANITARY & VENT

Sheet Number:

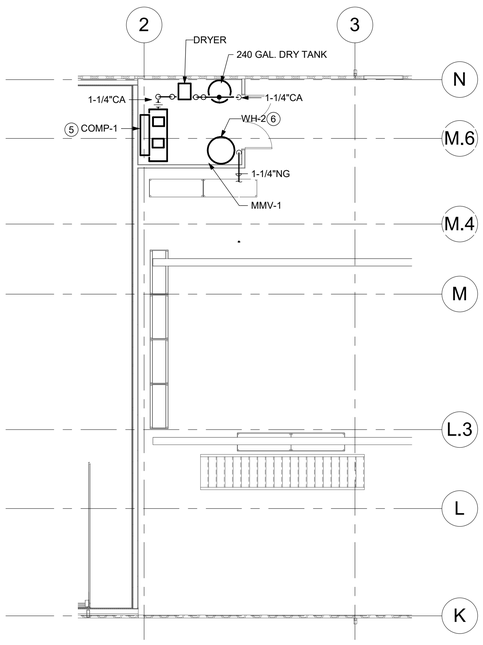
P102



1 PARTIAL PLUMBING PLAN "A" WATER & GAS

1/8" = 1'-0"

0' 4' 8' 16'



2 MEZZANINE 1 FLOOR PLAN - PLUMBING WATER & GAS

1/8" = 1'-0"

0' 4' 8' 16'

P103 DRAWING NOTES

1. PROVIDE 2" PVC PIPE SLEEVE BELOW FINISHED FLOOR FOR ROUTING OF 3/4" PNEUMATIC HOSE TO SERVE THE VEHICLE LIFT STATION UTILITY KIT. COORDINATE LOCATION OF STUB UP WITH VEHICLE LIFT MANUFACTURER.
2. 3/4" CA DROP TO 3/4" FILTER-REGULATOR-LUBRICATOR, MOUNTED 5'-0" AFF. TERMINATE WITH 3/4" QUICK DISCONNECT(50 CFM, 100 PSI)
3. INSTALL FUSIBLE HEAT ACTIVATED SHUT OFF VALVE AND MOTORIZED BALL VALVE IN MAIN CA LINE TO LUBE PUMPS. MOTORIZED BALL VALVE AND HEAT ACTIVATED SHUTOFF VALVE PROVIDED BY LUBE SYSTEM CONTRACTOR.
4. INSTALL MOTORIZED BALL VALVE IN CA LINE. MOTORIZED BALL VALVE PROVIDED BY LUBE SYSTEM CONTRACTOR.
5. PROVIDE 15HP RECIPROCATING COMPRESSOR WITH 120 GALLON RECEIVER, REFRIGERANT DRYER, AND 400 GALLON DRY STORAGE TANK, REFER TO SPECIFICATIONS.
6. PROVIDE 60 GALLON GAS FIRED MODULATING WATER HEATER, COMPLETE WITH EXPANSION TANK AND T&P RELIEF VALVE. ROUTE 1-1/4"HW TO EMERGENCY EYEWASH, SS-A AND LAV-A IN ROOMS BELOW. ROUTE 3/4"NATURAL GAS LINE FROM MAIN. REFER TO DETAIL 6/P500 FOR CONNECTIONS. REFER TO SPECIFICATIONS.
7. 3/4" CA DROP TO 3/4" FILTER-REGULATOR-LUBRICATOR, MOUNTED 5'-0" AFF. TERMINATE WITH WALL MOUNTED 50FT 3/4" AIR REEL (50 CFM, 100 PSI)
8. PLUMBING CONTRACTOR SHALL MAKE ALL FINAL CONNECTIONS TO VEHICLE WASH EQUIPMENT. COORDINATE FINAL CONNECTION REQUIREMENTS WITH VEHICLE WASH EQUIPMENT INSTALLER.
9. 3/4"CA TO FLUID TANK SYSTEM (7CFM @ 40PSI; 69CFM @ 90PSI; 10CFM @ 60PSI)
10. BUFFER TANK V-1 1"CW, 1/2" CA (6 CFM @ 90 PSI)
11. 1-1/4"NG TO WH-2 (120CFH)

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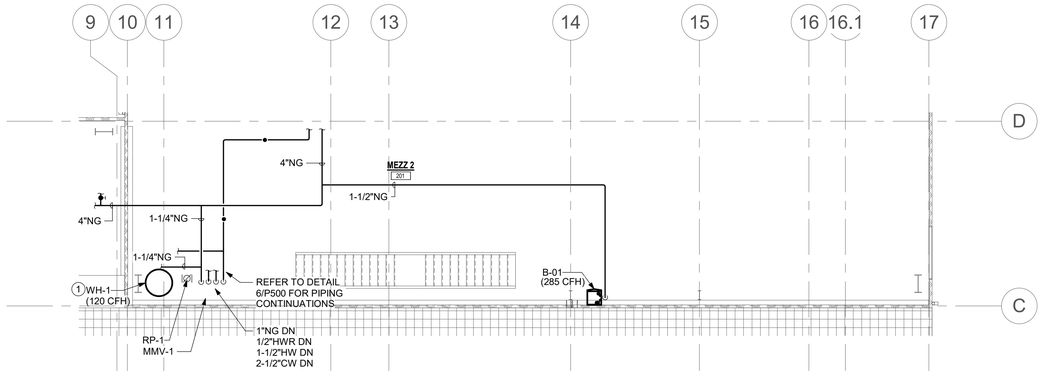
W&S Project No:	N2190088

Drawing Title:

PARTIAL LARGE SCALE PLUMBING FLOOR PLANS - AREA "A" - WATER AND GAS

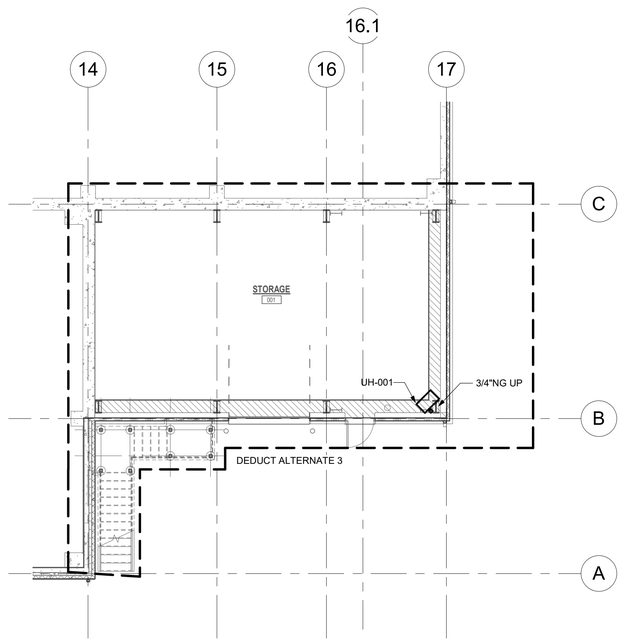
Sheet Number:

P103



2 MEZZANINE 2 FLOOR PLAN - LARGE SCALE

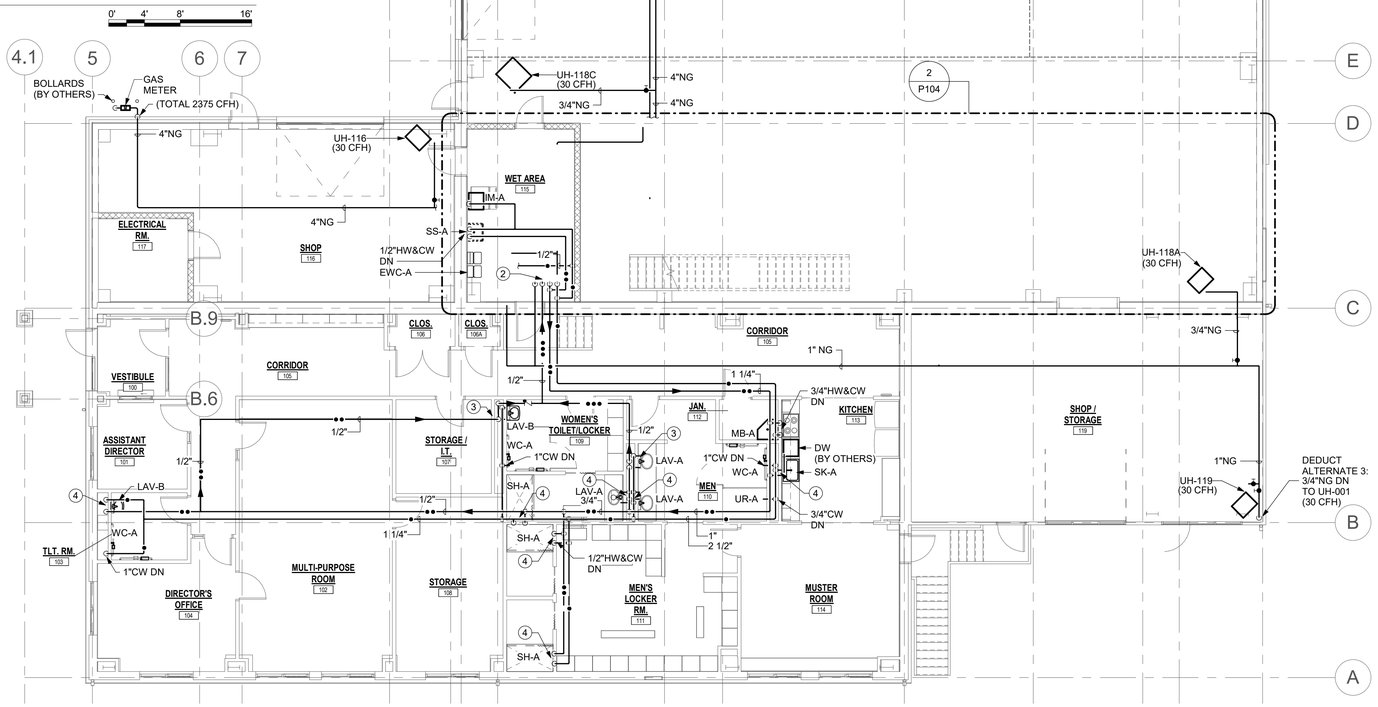
1/8" = 1'-0"



3 BASEMENT FLOOR

1/8" = 1'-0"

0' 4' 8' 16'



1 PARTIAL LARGE SCALE FIRST FLOOR/ADMIN PLAN "B" WATER & COMPRESSED AIR

1/8" = 1'-0"

0' 4' 8' 16'

P104 DRAWING NOTES

1 PROVIDE 60 GALLON GAS FIRED MODULATING WATER HEATER, COMPLETE WITH EXPANSION TANK AND T&P RELIEF VALVE. INCLUDE RP-1. ROUTE HW, CW, AND HWR TO FIXTURES IN ROOMS BELOW. ROUTE 3/4"NATURAL GAS LINE FROM MAIN. REFER TO DETAIL 6/P500 FOR CONNECTIONS. REFER TO SPECIFICATIONS.

2 1"NG UP; 1/2"HWR UP; 1-1/2"HW UP; 2-1/2"CW UP

3 1/2"HW, CW&HWR DN

4 1/2"HW&CW DN

Project:

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Seal:

STATE OF NEW YORK
MICHAEL P. SUNNUCKS
077887-1
LICENSED PROFESSIONAL ENGINEER

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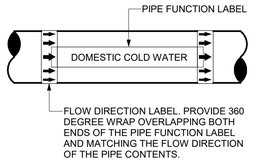
Date:	APRIL 7, 2022
Drawn By:	CES
Reviewed By:	PJW
Approved By:	BAB
W&S Project No:	N2190088

Drawing Title:

PARTIAL LARGE SCALE PLUMBING FLOOR PLANS - AREA "B" - WATER & GAS

Sheet Number:

P104



DETAIL NOTES:

A. PROVIDE A PIPE LABEL FOR EACH PIPE FUNCTION.

B. PROVIDE AT LEAST ONE LABEL ON EACH PIPE FOR EVERY ROOM THE PIPE PASSES THROUGH.

C. PROVIDE LABELS IN LARGE SPACES ON MAXIMUM 20' CENTERS FOR EVERY PIPE UNLESS OTHERWISE NOTED IN THE SPECIFICATIONS.

D. LABELS TO BE LOCATED IN AN EASILY VISIBLE LOCATION AS THEY WOULD NORMALLY BE SEEN. IE. ON THE BOTTOM HALF OF PIPES IN THE AIR AND ON THE TOP HALF OR SIDES OF PIPES MOUNTED LOW.

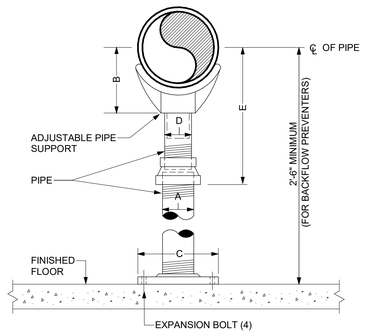
E. LABELS SHALL BE, COLOR CODED, PRE-PRINTED, SELF ADHESIVE VINYL.

F. SEE SPECIFICATION FOR OTHER REQUIREMENTS AND LIST OF PIPE FUNCTIONS.

1 PIPING IDENTIFICATION LABEL DETAIL

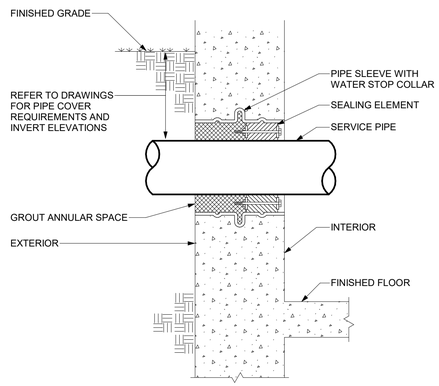
NOT TO SCALE

PIPE SIZE	A	B	C	D	DIMENSION E	
					MINIMUM	MAXIMUM
4"	3"	4 3/16"	9"	2 1/2"	9 1/4"	1'-2"
6"	3"	5 7/16"	9"	2 1/2"	10 1/2"	1'-3 1/4"
8"	3"	6 15/16"	9"	2 1/2"	11 3/4"	1'-4 1/2"



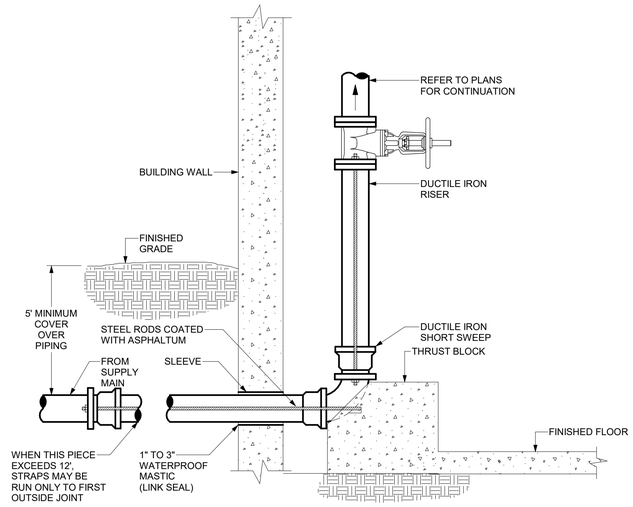
2 ADJUSTABLE PIPE SUPPORT DETAIL

NOT TO SCALE



3 PIPE THRU NEW EXTERIOR WALL DETAIL

NOT TO SCALE

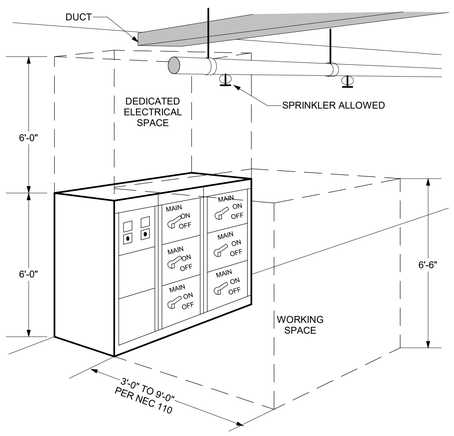


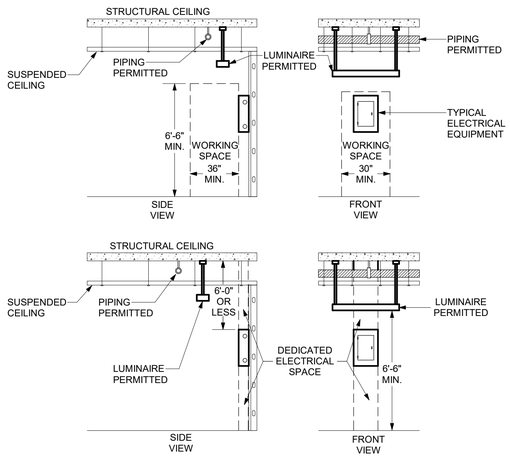
DETAIL NOTE:

A. ROD IN COMPLIANCE WITH AMERICA WATER WORKS ASSOCIATION STANDARDS.

4 WATER SERVICE DETAIL

NOT TO SCALE





DETAIL NOTES:

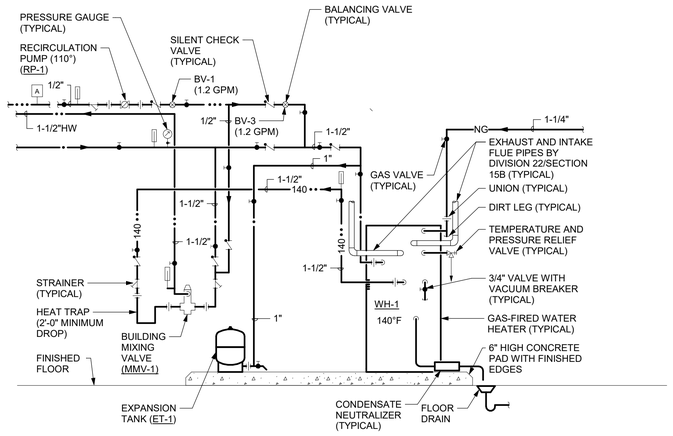
A. ELECTRICAL EQUIPMENT INCLUDES PANELS, TRANSFORMERS, DISCONNECTS, STARTERS, MOTOR CONTROL CENTERS, SWITCHGEAR, ADJUSTABLE SPEED DRIVES, AND FUSED SWITCHES (THIS ALSO APPLIES TO ELECTRICAL GEAR MOUNTED DIRECTLY ON MECHANICAL EQUIPMENT).

B. DEDICATED ELECTRICAL SPACE IS DEFINED BY NEC 110.

C. NO PIPING OR DUCTWORK MAY BE INSTALLED IN DEDICATED ELECTRICAL SPACE OR WORKING SPACE.

5 PIPING OVER ELECTRICAL EQUIPMENT DETAIL

NOT TO SCALE



DETAIL NOTES:

A. INSTALL PIPING TO ALLOW FOR FUTURE REMOVAL OF WATER HEATERS.

B. RELIEF VALVE DISCHARGE PIPE SIZE SHALL MATCH VALVE OUTLET SIZE - TERMINATE ABOVE FLOOR DRAIN WITH CODE REQUIRED AIR GAP.

C. REFER TO EXPANSION TANK DETAIL 1/P501.

D. PROVIDE AQUASTAT WITH DOMESTIC HOT WATER DISTRIBUTION SYSTEM, AND PROVIDE NECESSARY WIRING TO INTERLOCK WITH HEATER CONTROLS.

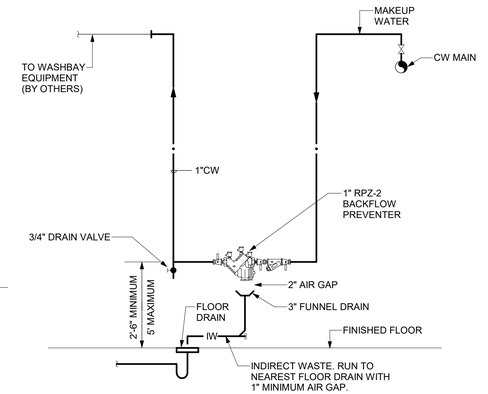
E. PIPING CONFIGURATION BASED ON CONDENSING WATER HEATER.

F. PROVIDE WITH CONDENSATE NEUTRALIZER. CONNECT 3/4" CPVC PIPING TO WATER HEATER AND NEUTRALIZER. TERMINATE CONDENSATE DRAIN ABOVE FLOOR DRAIN WITH CODE REQUIRED AIR GAP.

G. WATER HEATER DETAILS SIMILAR FOR WH-2 EXCEPT WITHOUT HWR RECIRCULATION LOOP.

6 WATER HEATER COMMERCIAL GAS TANK CONDENSING TYPE DETAIL

NOT TO SCALE



DETAIL NOTES:

A. BACKFLOW PREVENTER SHALL BE LOCATED UPSTREAM OF ALL CONNECTIONS TO HVAC EQUIPMENT.

B. PROVIDE PROPER SUPPORTS FOR BACKFLOW PREVENTER AND PIPING.

C. PROVIDE 8" CLEARANCE BEHIND BACKFLOW PREVENTER, 1' ABOVE AND 2'-6" CLEARANCE IN FRONT OF DEVICE.

D. THE INSTALLATION OF A FIXED AIR GAP FITTING IS NOT ACCEPTABLE FOR USE ON DRAIN LINE. PROVIDE FUNNEL DRAIN AS INDICATED.

E. PAINT SUPPORTS WITH ONE (1) PRIMER AND TWO (2) FINISH COATS OF COLOR AS SPECIFIED.

7 MAKE-UP WATER BACKFLOW PREVENTER DETAIL

NOT TO SCALE

Project:

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Drawn By: CES

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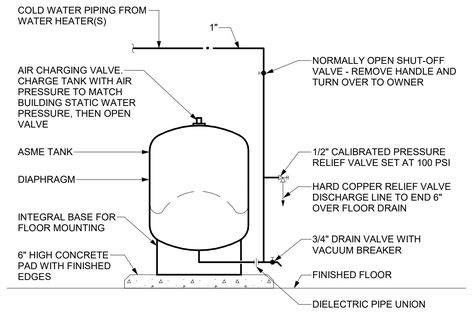
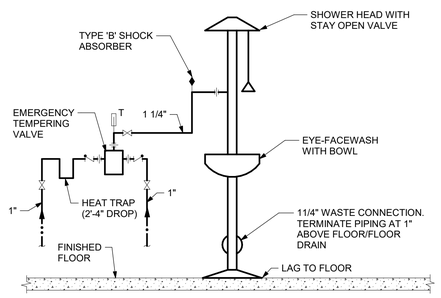


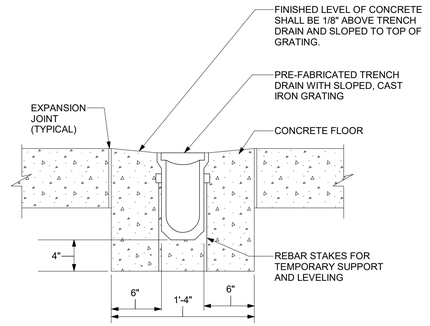
1 THERMAL EXPANSION TANK DETAIL

NOT TO SCALE



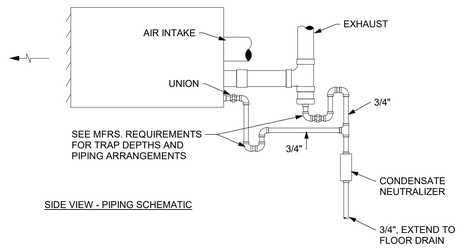
2 EMERGENCY SHOWER/EYEWASH DETAIL

NOT TO SCALE

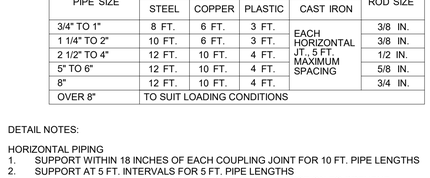


3 TRENCH DRAIN DETAIL

NOT TO SCALE



SIDE VIEW - PIPING SCHEMATIC



DETAIL NOTES:

A. NEUTRALIZER AND PIPING SHALL NOT OBSTRUCT ANY SERVICE SPACES OR ACCESS DOORS ON EQUIPMENT

B. PIPING SIZE SHALL BE 3/4" MINIMUM, DO NOT USE 1/2" VINYL TUBE

C. MOUNT NEUTRALIZER LEVEL, AND HORIZONTAL, WITH OUTLET HIGHER THAN INLET. VERTICAL MOUNTING SHALL NOT BE ACCEPTED DUE TO POSSIBLE BLOCKAGE OF INLET BY NEUTRALIZING MEDIA.

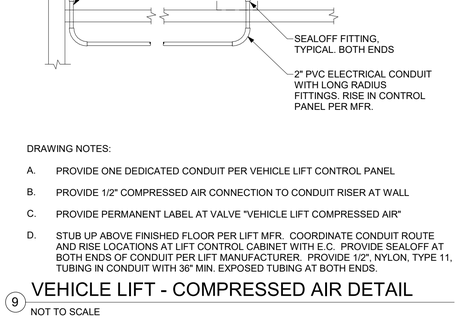
D. ALL PIPING SHALL BE LOWER THAN APPLIANCE CONDENSATE OUTLETS

E. TOTAL CONNECTED EQUIPMENT SHALL BE 300,000 BTUH OR LESS

F. DESIGN BASIS: AXIOM NC-1

5 CONDENSATE NEUTRALIZER DETAIL

NOT TO SCALE



GENERAL NOTES:

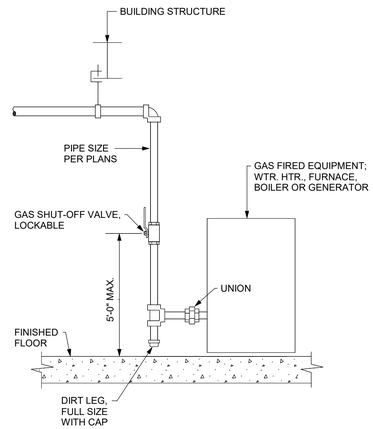
A. ADJUST HOSE STOPS AND REEL TENSION. CONTROL HANDLE TO HANG AT 4'-6" AFF UNLESS OTHERWISE REQUESTED BY OWNER.

B. QUICK DISCONNECT TO MATCH OWNER'S MODEL FOR RENOVATIONS

C. COLOR CODE EXPOSED PIPING IN SERVICE BAYS. PAINT 12" BAND ON PIPING ON 20 FOOT CENTERS WITH UNIQUE COLOR FOR EACH PIPE CONTENTS. PROVIDE CHART WITH KEY TO COLORS TO OWNER.

6 COMPRESSED AIR - HOSE REEL DETAIL

NOT TO SCALE



DETAIL NOTES:

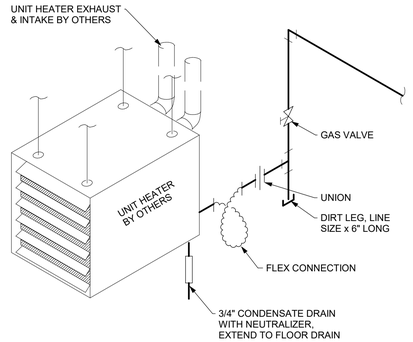
A. PROVIDE SHUT-OFF VALVE, DIRT LEG AND UNION AT EACH GAS CONNECTION ON EACH PIECE OF EQUIPMENT.

B. VERIFY CONNECTION SIZES, QUANTITIES AND LOCATIONS WITH M.C.

C. PROVIDE PIPE NIPPLE THROUGH EQUIPMENT CASE. CSST & FLEX LINES SHALL NOT PENETRATE CASING PER CODE.

7 GAS EQUIPMENT CONNECTION DETAIL

NOT TO SCALE

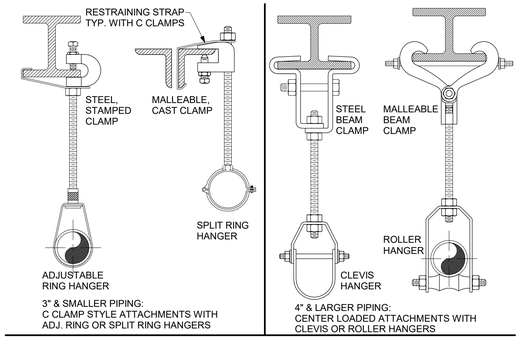


DETAIL NOTES:

A. DESIGN BASIS: REZNOR MODEL UEAS

4 UNIT HEATER GAS PIPING DETAIL - CONDENSING TYPE

NOT TO SCALE



SUPPORT SCHEDULE					
PIPE SIZE	PIPE MATERIAL & SUPPORT SPACING				ROD SIZE
	STEEL	COPPER	PLASTIC	CAST IRON	
3/4" TO 1"	8 FT.	6 FT.	3 FT.	EACH HORIZONTAL JT., 5 FT. MAXIMUM SPACING	3/8 IN.
1 1/4" TO 2"	10 FT.	6 FT.	3 FT.		3/8 IN.
2 1/2" TO 4"	12 FT.	10 FT.	4 FT.		1/2 IN.
5" TO 6"	12 FT.	10 FT.	4 FT.		5/8 IN.
8"	12 FT.	10 FT.	4 FT.		3/4 IN.
OVER 8"	TO SUIT LOADING CONDITIONS				

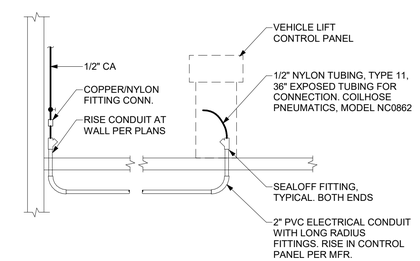
DETAIL NOTES:

HORIZONTAL PIPING
1. SUPPORT WITHIN 18 INCHES OF EACH COUPLING JOINT FOR 10 FT. PIPE LENGTHS
2. SUPPORT AT 5 FT. INTERVALS FOR 5 FT. PIPE LENGTHS
3. 4 INCH AND LARGER PIPE - BRACE AT CHANGES IN DIRECTION TO PREVENT HORIZONTAL MOVEMENT
4. INSTALLATIONS REQUIRING MULTIPLE JOINTS WITHIN A FOUR FOOT DEVELOPED LENGTH SHALL BE SUPPORTED AT EVERY OTHER OR ALTERNATING COUPLINGS. FINISHES

5. TYPICAL - ELECTROPLATED ZINC OR CADMIUM FINISH
6. COPPER PIPING, UNINSULATED - COPPER PLATED OR PVC COATED
7. EXTERIOR & WET LOCATIONS, HOT DIPPED GALVANIZED HARDWARE & HANGERS

8 PIPE HANGER AND SPACING DETAILS - STEEL STRUCTURE

NOT TO SCALE



DRAWING NOTES:

A. PROVIDE ONE DEDICATED CONDUIT PER VEHICLE LIFT CONTROL PANEL

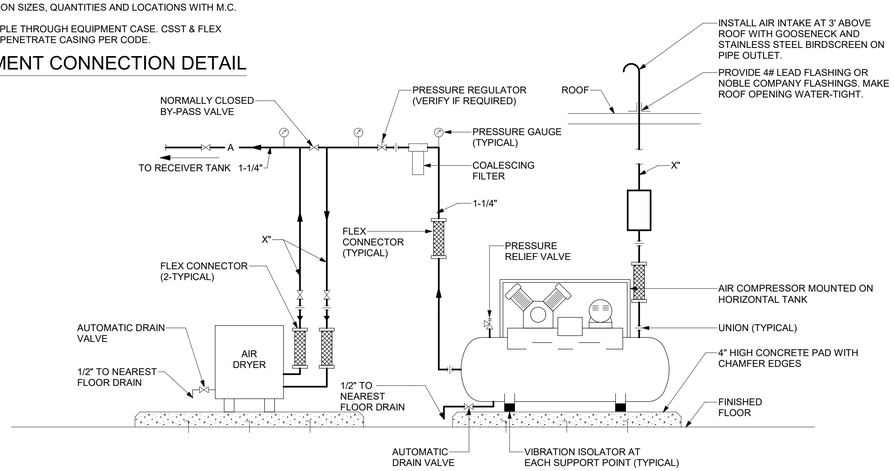
B. PROVIDE 1/2" COMPRESSED AIR CONNECTION TO CONDUIT RISER AT WALL

C. PROVIDE PERMANENT LABEL AT VALVE "VEHICLE LIFT COMPRESSED AIR"

D. STUB UP ABOVE FINISHED FLOOR PER LIFT MFR. COORDINATE CONDUIT ROUTE AND RISE LOCATIONS AT LIFT CONTROL CABINET WITH E.C. PROVIDE SEALOFF AT BOTH ENDS OF CONDUIT PER LIFT MANUFACTURER. PROVIDE 1/2", NYLON, TYPE 11, TUBING IN CONDUIT WITH 36" MIN. EXPOSED TUBING AT BOTH ENDS.

9 VEHICLE LIFT - COMPRESSED AIR DETAIL

NOT TO SCALE



DETAIL NOTES:

A. PIPE SIZES AND COMPRESSOR LOCATION AS INDICATED ON DRAWINGS .

B. COORDINATE EQUIPMENT ELECTRICAL CONNECTION REQUIREMENTS WITH SECTION 16/DIVISION 26.

C. ALL DRAIN PIPING SHALL TERMINATE AT 1" ABOVE NEAREST FLOOR DRAIN.

D. PAINT EXPOSED PIPING ABOVE ROOF WITH ONE(1) PRIMER AND TWO(2) FINISH COATS AS SPECIFIED.

10 AIR COMPRESSOR DETAIL

NOT TO SCALE

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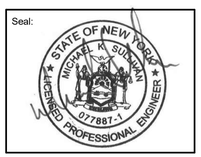

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Drawn By: CES

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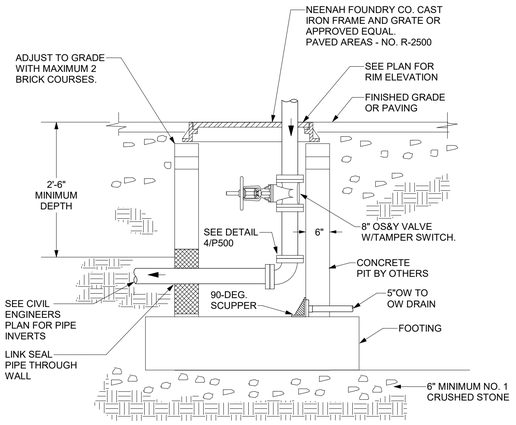


DETAIL NOTES:

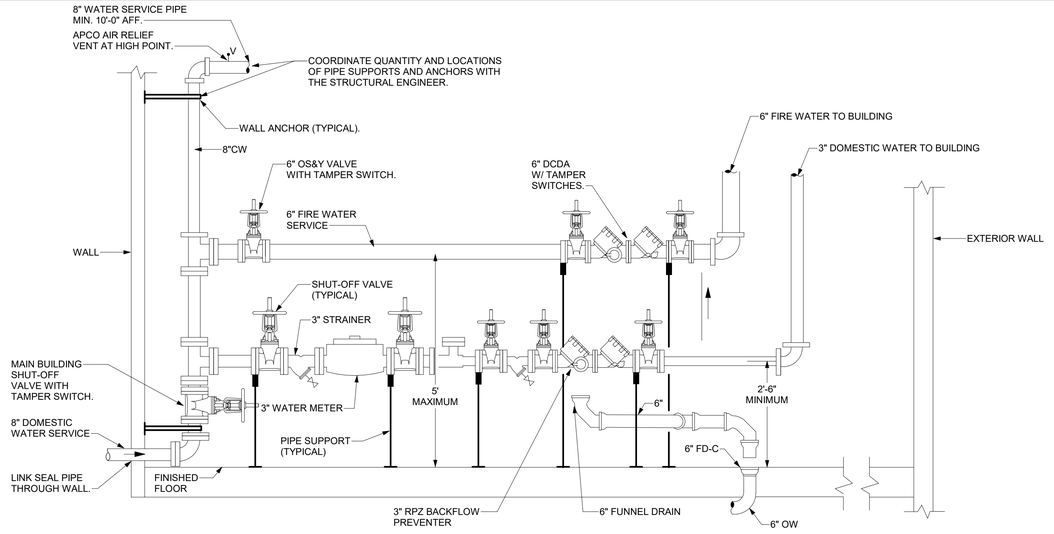
A. COAT INTERIOR WITH TWO (2) APPLICATIONS OF SIKA GUARD 664/9 HI-BILD EPOXY COATING OR APPROVED EQUAL.

B. COAT EXTERIOR WITH TWO (2) APPLICATIONS OF KOPPER SUPER SERVICE BLACK, BITUMASTIC COATING OR APPROVED EQUAL.

C. SCUPPER DRAIN SHALL BE JOSAM 24700 90-DEGREE SCUPPER DRAIN OR EQUAL.

2 WATER PIT DETAIL

NOT TO SCALE



DETAIL NOTES:

A. PROVIDE PROPER SUPPORTS FOR BACKFLOW PREVENTERS, WATER METER AND PIPING.

B. PROVIDE 8" CLEARANCE BEHIND BACKFLOW PREVENTERS, 1'-0" ABOVE AND 2'-6" CLEARANCE IN FRONT OF DEVICES.

C. THE INSTALLATION OF FIXED AIR GAP FITTINGS ARE NOT ACCEPTABLE FOR USE ON DRAIN LINES. PROVIDE FUNNEL DRAINS AS INDICATED.

D. PAINT SUPPORTS WITH ONE (1) PRIMER AND TWO (2) FINISH COATS OF COLOR AS SPECIFIED.

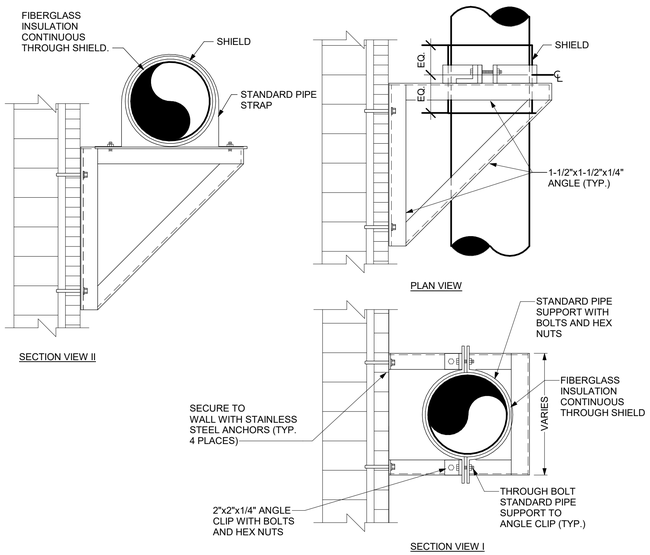
E. PROVIDE FIXED PLATFORM SHOULD THE UPPER BACKFLOW PREVENTER BE INSTALLED HIGHER THAN 5'-0" ABOVE FINISHED FLOOR. HEIGHT OF UPPER BACKFLOW PREVENTER FROM TOP OF PLATFORM SHALL NOT EXCEED 5'-0".

F. HEAT AND LIGHT ARE PROVIDED IN THE AREA OF THE BACKFLOW PREVENTERS.

G. PROVIDE SPOOL PIECES AT INLET AND OUTLET OF METER AS RECOMMENDED BY METER MANUFACTURER.

1 COMBINED WATER SERVICE ENTRANCE DETAIL

NOT TO SCALE



DETAIL NOTES:

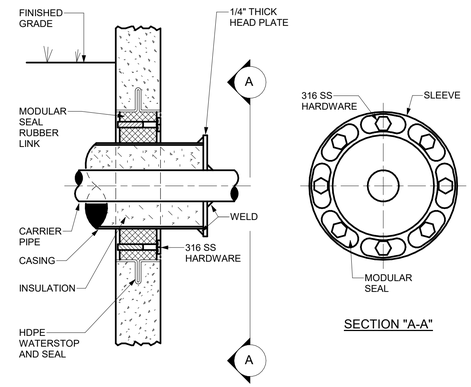
A. ALL FASTENERS AND APPURTENANCES TO BE 316 STAINLESS STEEL.

B. PAINT ANGLE IRON WITH TWO COATS OF RUST INHIBITIVE PRIMER AND ONE FINISH COAT.

C. COORDINATE QUANTITY AND LOCATION OF PIPE SUPPORTS WITH THE STRUCTURAL ENGINEER.

4 VERTICAL AND HORIZONTAL PIPESUPPORT DETAIL - WALL-MOUNTED

NOT TO SCALE



DETAIL NOTES:

A. COORDINATE SLEEVE LOCATION AT TIME OF CONCRETE POUR.

3 BELOW GRADE WALL PENETRATION DETAIL - NEW CONSTRUCTION

NOT TO SCALE

Project:

VILLAGE OF ARDSLEY, NY

NEW PUBLIC WORKS FACILITY

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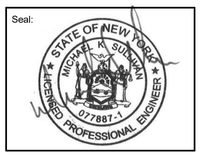

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DETAILS

Sheet Number:

P502

MECHANICAL SYSTEMS GENERAL NOTES

A. ALL PIPING IS TO BE RUN CONCEALED IN FINISHED AREAS. COORDINATE PIPING INSTALLATION WITH WORK OF OTHER TRADES TO ENSURE CONCEALMENT.

B. COORDINATE ALL EQUIPMENT LOCATIONS AND INSTALLATION WITH THE WORK OF OTHER TRADES. COORDINATE EQUIPMENT WITH WALL, CEILING AND FLOOR FINISHES.

C. COORDINATE DIFFUSER LOCATIONS WITH LIGHTING, FIRE DETECTION, AND CEILING. COORDINATE DUCTWORK WITH LIGHTING AND PIPING INSTALLERS TO ALLOW CLEARANCE FOR LIGHT FIXTURES, PIPING AND WORK OF OTHER TRADES.

D. COORDINATE LOUVER, DIFFUSER AND GRILLE FRAME TYPES TO MATE AND MATCH ADJACENT WALL AND CEILING CONSTRUCTION.

E. COORDINATE DUCTWORK WITH WORK OF OTHER TRADES TO ENSURE ALL DUCTWORK IS CONCEALED. COORDINATE EXACT DIFFUSER AND GRILLE LOCATIONS TO MATCH ARCHITECTURAL REQUIREMENTS FOR SPACING AND CENTERING.

F. PROVIDE MANUAL BALANCING DAMPERS FOR ALL DUCT BRANCHES SERVING SUPPLY DIFFUSERS, RETURN AIR GRILLES, LINEAR SLOTS AND EXHAUST AIR GRILLES.

G. UNLESS OTHERWISE NOTED PROVIDE DRAINS AT LOW POINTS. DRAINS SHALL BE CONSTRUCTED WITH 3/4" BALL VALVE WITH HOSE CONNECTION AND END CAP.

H. VERIFY THAT EQUIPMENT MATCHES FIELD VOLTAGE. COORDINATE WITH ELECTRICAL CONTRACTOR FOR REQUIREMENTS PRIOR TO ORDER.

I. INSTALLATION SHALL PROVIDE FOR SERVICE ACCESS AREAS AND COIL PULLS. CONFIRM LOCATIONS AND SERVICEABILITY PRIOR TO ORDER.

J. COORDINATE ANY INTERRUPTION OF UTILITY SERVICES WITH OWNER.

K. CONTRACTOR IS RESPONSIBLE FOR COORDINATION OF ALL WORK. REFER TO STRUCTURAL DRAWINGS FOR EXACT LOCATIONS OF BUILDING STRUCTURAL ELEMENTS. COORDINATE ALL EQUIPMENT LOCATIONS, CONCEALMENT AND SURFACE FINISH TREATMENTS WITH WORK OF ALL TRADES. IN ANY CASE OF DISCREPANCY BETWEEN THE PLANS OR IN ANY CASE WHERE SUCH ISSUES REQUIRE CLARIFICATION, NOTIFY ENGINEER IN WRITING.

L. ALL PIPING AND DUCTWORK SIZES INDICATED ARE MINIMUM SIZES. LARGER SIZES MAY BE INSTALLED BY THE CONTRACTOR IN ALL CASES. EXISTING SURFACES, SUBSTRATES, OR STRUCTURE WHICH ARE PENETRATED, ALTERED OR DAMAGED IN ANY WAY BY THE WORK ASSOCIATED WITH THIS CONTRACT SHALL BE REPAIRED SO AS TO MATCH ORIGINAL SURFACE, SUBSTRATE, OR STRUCTURE.

M. ALL SURFACE MOUNTED EQUIPMENT SHALL BE FASTENED WITH ANCHORS OR FASTENERS AS SPECIFIED FOR THE SUBSTRATE. PLASTIC OR FIBER SHIELDS ARE NOT ACCEPTABLE.

N. DRAWINGS ARE DIAGRAMATIC, AND DO NOT SHOW ALL RISES, DROPS, OFFSETS, AND ROUTING TO AVOID OBSTRUCTIONS. CONTRACTOR SHALL BE RESPONSIBILE FOR FIELD CONDITIONS REQUIRING ADDITIONAL MATERIAL QUANTITIES.

O. WHEN REMOVING ANY EXISTING PNEUMATIC CONTROLS NOT TO BE REUSED CAP PNEUMATIC PIPING AIR TIGHT TO MAINTAIN SYSTEM ITEGRITY AND PROVIDE FOR PROPER SYSTEM OPERATION OF COMPRESSED AIR SYSTEM TO WORK.

P. PITCH CONDENSATE PIPING AT 1" PER 10'-0 TOWARDS FLOOR DRAIN, SLOP SINK OR HUB DRAIN

CONTROLS SYMBOL LIST

SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
DI	DIGITAL INPUT (GENERAL)	DSD	DUCT SMOKE DETECTOR
DO	DIGITAL OUTPUT (GENERAL)	CT	CURRENT TRANSDUCER
AI	ANALOG INPUT (GENERAL)	I/P	ELECTRIC/PNEUMATIC TRANSDUCER
AO	ANALOG OUTPUT (GENERAL)	I/E	ELECTRONIC/ELECTRIC TRANSDUCER
	THERMOWELL		ELECTRICAL INTERFACE
A	ALARM	S/S	START/STOP
E	ELECTRIC ACTUATOR	O/C	OPEN/CLOSE
FZ	FREEZE-STAT	E/D	ENABLE/DISABLE
H	HUMIDIFIER		HARD WIRE INTERFACE
R	RELAY	I	ELECTRONIC INTERFACE
S	STATUS		PNEUMATIC CONTROL VALVE (3-WAY)
M	FLOW METER		PNEUMATIC CONTROL VALVE (2-WAY)
BTU	BTU ENERGY METER	E	ELECTRIC/ELECTRONIC CONTROL VALVE (3-WAY)
	AIR FLOW MEASURING STATION	E	ELECTRIC/ELECTRONIC CONTROL VALVE (2-WAY)
	AVERAGING SENSOR	S	SOLENOID VALVE
H	HUMIDITY SENSOR (DUCT MOUNTED)		THERMOSTATIC EXPANSION VALVE
T	TEMPERATURE SENSOR (DUCT OR PIPE MOUNTED)		AUTOMATIC AIR DAMPER (PARALLEL BLADE)
CO2	CARBON DIOXIDE SENSOR (DUCT MOUNTED)		AUTOMATIC AIR DAMPER (OPPOSED BLADE)
S	SPACE TEMPERATURE SENSOR (WALL MOUNTED)		PNEUMATIC ACTUATOR
H	SPACE HUMIDITY SENSOR (WALL MOUNTED)	M	MAIN TEMPERATURE CONTROL AIR SOURCE
C	CARBON DIOXIDE ROOM SENSOR (WALL MOUNTED)	EA	EXHAUST AIR
CO	CARBON MONOXIDE ROOM SENSOR (WALL MOUNTED)	OA	OUTSIDE AIR
N	NITROGEN DIOXIDE ROOM SENSOR (WALL MOUNTED)	RA	RETURN AIR
T	PNEUMATIC THERMOSTAT	SA	SUPPLY AIR
TE	LINE VOLTAGE THERMOSTAT	SF	SUPPLY FAN
OS	OCCUPANCY SENSOR	SC	SMOKE CONTROL FAN
M	MOISTURE SENSOR	RF	RETURN AIR FAN
	PROBE SENSOR	EF	EXHAUST AIR FAN
FS	FLOW SENSOR/SWITCH		FILTER
ES	END SWITCH		BASE MOUNTED PUMP
SM	MANUAL SWITCH		IN LINE PUMP
ΔP	DIFFERENTIAL STATIC PRESSURE SWITCH	ASD	ADJUSTABLE SPEED DRIVE
P	DIFFERENTIAL STATIC PRESSURE SENSOR	C/C	COOLING COIL
E/P	ELECTRIC/PNEUMATIC SWITCH OR RELAY	H/C	HEATING COIL
P/E	PNEUMATIC/ELECTRIC SWITCH OR RELAY	HR/C	HEAT RECOVERY COIL
F	FLOW TRANSMITTER TRANSDUCER	R134a	REFRIGERANT R134a SENSOR (WALL MOUNTED)
P	PRESSURE SENSOR		

HVAC SYMBOL LIST

SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
	EXISTING WORK TO BE REMOVED	A	COMPRESSED AIR
	POINT OF CONNECTION	V	VENT
	POINT OF DISCONNECTION	BBD	BOILER BLOW DOWN
X	DRAWING KEYNOTE	CS	CONDENSER WATER SUPPLY
X	DEMOLITION KEYNOTE	CR	CONDENSER WATER RETURN
MBH	THOUSAND BTU/HOUR	CWS	CHILLED WATER SUPPLY
NTS	NOT TO SCALE	CWR	CHILLED WATER RETURN
(E)	EXISTING	D	DRAIN
(L)	ACOUSTIC THERMAL LINING - 1-1/2" THICK	FOF	FUEL OIL FILL
(2L)	ACOUSTIC THERMAL LINING - 2" THICK	FOG	FUEL OIL GAUGE
(DBL)	DOUBLE WALL LINED DUCT	FOS	FUEL OIL SUPPLY
FPM	FEET PER MINUTE	FOR	FUEL OIL RETURN
CFM	CUBIC FEET PER MINUTE	FOV	FUEL OIL TANK VENT
AFF	ABOVE FINISHED FLOOR	G	GAS
AD	ACCESS DOOR	GS	GLYCOL SUPPLY
W/W	WALL TO WALL	GR	GLYCOL RETURN
G.C.	GENERAL CONTRACTOR	HPWS	HEAT PUMP WATER SUPPLY
M.C.	MECHANICAL CONTRACTOR	HPWR	HEAT PUMP WATER RETURN
P.C.	PLUMBING CONTRACTOR	HWS	HOT WATER SUPPLY
E.C.	ELECTRICAL CONTRACTOR	HWR	HOT WATER RETURN
N.O.	NORMALLY OPEN	LPS	LOW PRESSURE STEAM
N.C.	NORMALLY CLOSED	LPC	LOW PRESSURE CONDENSATE
	FLEXIBLE DUCTWORK	MPS	MEDIUM PRESSURE STEAM
AxB FO	DUCT SECTION - FLAT OVAL (FO)	MPC	MEDIUM PRESSURE CONDENSATE
12"	ROUND DUCT - IN INCHES	HPS	HIGH PRESSURE STEAM
	DUCT SECTION - SUPPLY	HPC	HIGH PRESSURE CONDENSATE
	DUCT SECTION - RETURN	PC	PUMPED CONDENSATE
A / B	WIDTH A x DEPTH B	RD	REFRIGERANT DISCHARGE
	TRANSITION SQUARE TO ROUND	RL	REFRIGERANT LIQUID
R	RISE IN DUCT - IN DIRECTION OF AIRFLOW	RS	REFRIGERANT SUCTION
D	DROP IN DUCT - IN DIRECTION OF AIRFLOW	HG	HOT GAS
DN 24x12 UP	SUPPLY DUCT TURNING UP OR DOWN	VAC	VACUUM
DN 24x12 UP	RETURN DUCT TURNING UP OR DOWN	CW	DOMESTIC COLD WATER
24x12 6" BOOT TAP 14x8	SUPPLY/RETURN RECTANGULAR MAIN RECTANGULAR BRANCH	TD	TRIPLE DUTY VALVE
24x12 6" BOOT TAP 14"	SUPPLY/RETURN RECTANGULAR MAIN ROUND BRANCH		GLOBE VALVE
18" CONICAL TEE 14"	SUPPLY/RETURN ROUND MAIN ROUND BRANCH		BALL VALVE
18" LATERAL 14"	SUPPLY/RETURN ROUND MAIN ROUND BRANCH		GATE VALVE
	MITERED ELBOW WITH TURNING VANES		CONTROL VALVE
	SUPPLY DIFFUSER, REGISTER OR GRILLE		THREE WAY CONTROL VALVE
	RETURN REGISTER		CHECK VALVE
	EXHAUST GRILLE		BALANCING VALVE
	FIN TUBE RADIATION		BUTTERFLY VALVE
	VALANCE		RELIEF VALVE
A B C	REGISTER, GRILLE OR DIFFUSER TAG A = TYPE B = NECK SIZE C = CFM	PRV	PRESSURE REDUCING VALVE
A B C D	LINEAR DIFFUSER TAG A = TYPE B = NECK SIZE C = DIFFUSER LENGTH D = CFM		PRESSURE/TEMPERATURE TEST PLUG
FT-A B C D	FIN TUBE RADIATION TAG FT-A = TYPE B = FIN TUBE LENGTH C = ENCLOSURE LENGTH D = GPM		SINGLE LINE PIPE CONTINUED
A B C	RADIANT CEILING PANEL TAG A = TYPE B = LENGTH C = GPM		DOUBLE LINE PIPE OR ROUND DUCT CONTINUED
A B C D	VALANCE TAG A = TYPE B = COIL SIZE C = COOLING GPM D = HEATING GPM		DOUBLE LINE RECTANGULAR DUCT CONTINUED
	AIR TERMINAL UNIT AND TAG (OPTION 1)		AIR FLOW
A B C	AIR TERMINAL UNIT TAG (OPTION 2) A = UNIT NO. B = MAXIMUM CFM C = MINIMUM CFM		PIPE ANCHOR
			PIPE GUIDE
			EXPANSION COMPENSATOR WITH GUIDES
			PRE-FAB EXPANSION LOOP
			STRAINER
			PRESSURE GAUGE
			THERMOMETER
			UNION
		V	AIR VENT
		TT	THERMOSTATIC TRAP
		FT	FLOAT & THERMOSTATIC TRAP
		TD	THERMODYNAMIC TRAP
		BT	BUCKET TRAP
			DIRECTION OF FLOW
			REDUCER
			CAP OR PLUG
			ELBOW DOWN
			ELBOW UP
			BOTTOM TAP
		AAD	AUTOMATIC AIR DAMPER
		FD	FIRE DAMPER
		SD	SMOKE DAMPER
		FSD	COMBINATION FIRE/SMOKE DAMPER
		BDD	BACK DRAFT DAMPER
		FC	FLEX CONNECTOR - DUCTWORK
		MD	MOTORIZED DAMPER
		BG	BLAST GATE
			VOLUME DAMPER
		SD	SUCTION DIFFUSER
			FLEXIBLE CONNECTOR - PIPING
			DRAIN VALVE WITH HOSE CONNECTION, CAP AND CHAIN
		FS	WATER FLOW SENSOR
		TS	WATER TEMPERATURE SENSOR
		SPS	STATIC PRESSURE SENSOR
		H	HUMIDISTAT
		S	TEMPERATURE SENSOR
		C	CARBON DIOXIDE SENSOR
		CO	CARBON MONOXIDE SENSOR
		G	GAS SENSOR
		T / TE	PNEUMATIC/ELECTRIC THERMOSTAT
		TG / SG	THERMOSTAT/SENSOR WITH GUARD
		DSD	DUCT SMOKE DETECTOR

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Seal:

STATE OF NEW YORK · MICHAEL K. SUNDAY · 077887-1 · LICENSED PROFESSIONAL ENGINEER

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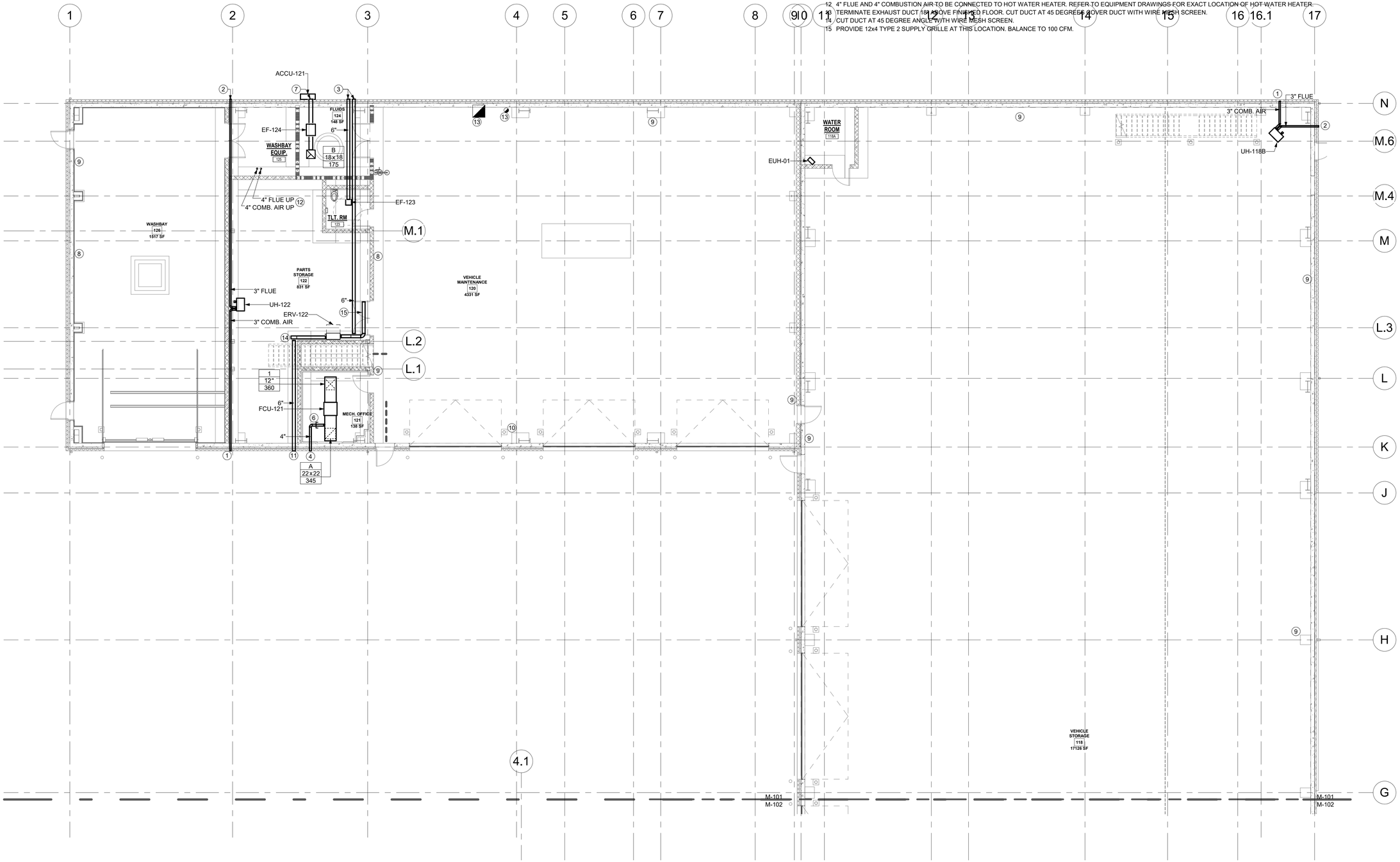
GENERAL NOTES AND SYMBOL LIST

Sheet Number:

M001

M-101 DRAWING NOTES

1 PROVIDE 3" GALVANIZED COMBUSTION AIR DUCT FOR UNIT HEATER. TERMINATE PER UNIT HEATER MFG INSTALLATION INSTRUCTIONS.
2 PROVIDE 3" DOUBLE WALL B VENT PER SPECIFICATION. TERMINATE WITH RAIN CAP.
3 PROVIDE 6" WALL CAP WITH BACKDRAFT DAMPER.
4 PROVIDE 4" WALL CAP.
6 BALANCE THE OUTSIDE AIR DUCT TO PROVIDE 25 CFM OF OUTDOOR AIR.
7 PROVIDE 8" WALL CAP WITH BACKDRAFT DAMPER.
8 PROVIDE HONEYWELL 301CC0 AND GAS DETECTION SYSTEM AT THIS LOCATION MOUNT 6'-0" ABOVE FINISHED FLOOR. PROVIDE ALARM LIGHT BAR ON TOP OF UNIT.
9 LOCATE HONEYWELL E3POINT SENSOR FOR GAS DETECTION SYSTEM WITH ALARM LEVEL LIGHTS AND HORN AT THIS LOCATION. SENSOR SHALL BE MOUNTED 5'-0" ABOVE FINISHED FLOOR. PROVIDE WIRING BACK TO HONEYWELL 301CC0 AND GAS DETECTION SYSTEM.
10 PROVIDE MONOXIVENT 6" DIAMETER 25' SPARE EXHAUST REEL AT THIS LOCATION.
11 PROVIDE 6" WALL CAP.
12 4" FLUE AND 4" COMBUSTION AIR TO BE CONNECTED TO HOT WATER HEATER. REFER TO EQUIPMENT DRAWINGS FOR EXACT LOCATION OF HOT WATER HEATER.
13 TERMINATE EXHAUST DUCT 18" ABOVE FINISHED FLOOR. CUT DUCT AT 45 DEGREES OVER DUCT WITH WIRE MESH SCREEN.
14 CUT DUCT AT 45 DEGREE ANGLE WITH WIRE MESH SCREEN.
15 PROVIDE 12x4 TYPE 2 SUPPLY GRILLE AT THIS LOCATION. BALANCE TO 100 CFM.



1 FIRST FLOOR DUCTWORK PLAN - AREA A
1/8" = 1'-0"

Project:

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0' 4' 8' 16'
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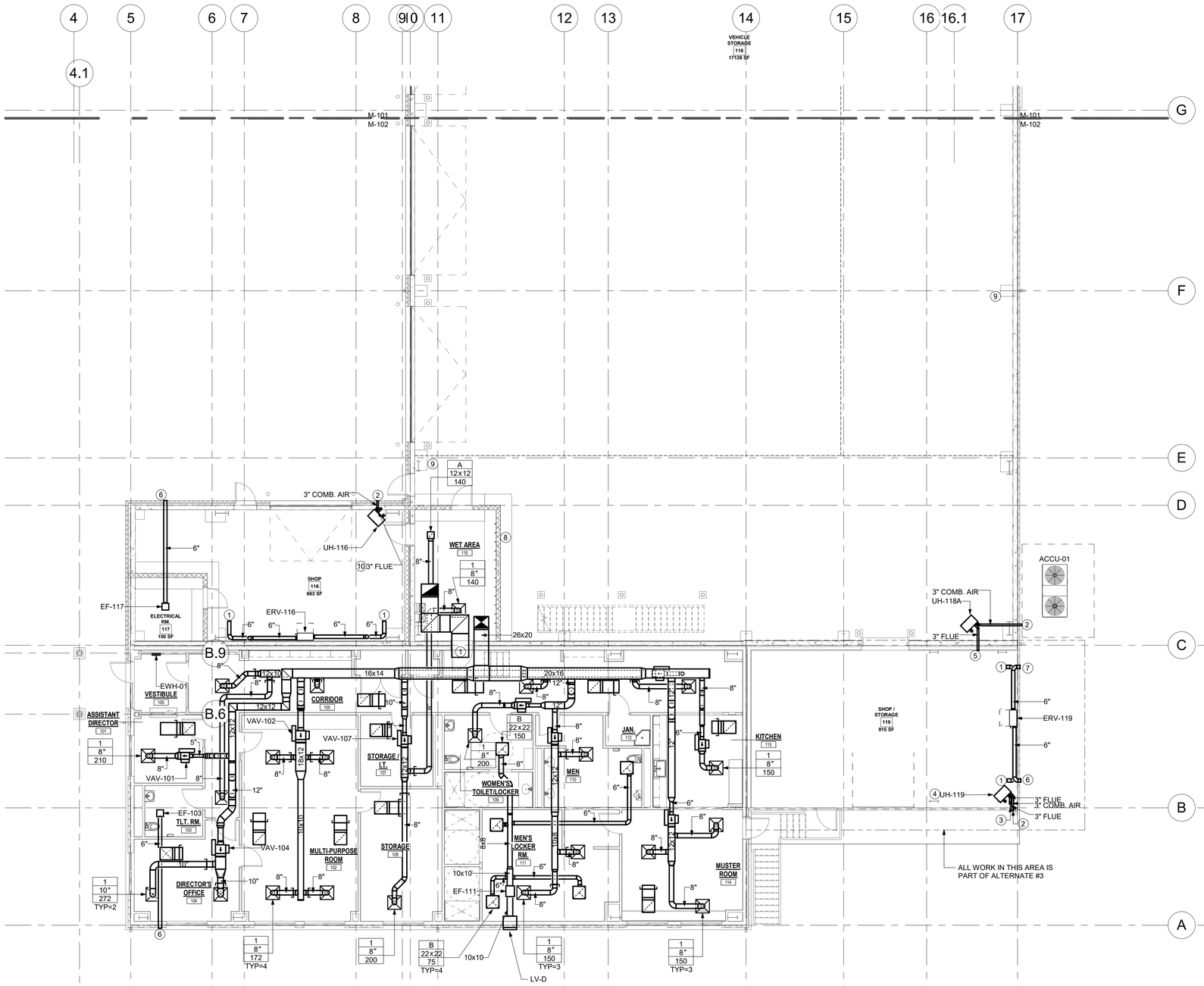
FIRST FLOOR DUCTWORK PLAN - AREA A

Sheet Number:

M101



GENERAL NOTES:

A. FOR ANY WALLS THAT GO FULL HEIGHT FLOOR TO ROOF DECK. PROVIDE 24x24 OPENING ABOVE CEILING IN WALL.

1 FIRST FLOOR DUCTWORK PLAN - AREA B
1/8" = 1'-0"

M-102 DRAWING NOTES

1. CUT DUCT AT 45 DEGREE ANGLE WITH WIRE MESH SCREEN.
2. PROVIDE 3" GALVANIZED COMBUSTION AIR DUCT FOR UNIT HEATER. TERMINATE PER UNIT HEATER MFG INSTALLATION INSTRUCTIONS.
3. IF ALTERNATE IS NOT PICKED PROVIDE 3" DOUBLE WALL B VENT PER SPECIFICATION. TERMINATE WITH RAIN CAP.
4. UH-119 IS PART OF ALTERNATE __.
5. PROVIDE 3" DOUBLE WALL B VENT PER SPECIFICATION. TERMINATE WITH RAIN CAP.
6. PROVIDE 6" WALL CAP WITH BACKDRAFT DAMPER.
7. PROVIDE 6" WALL CAP.
8. PROVIDE HONEYWELL 301CC0 AND GAS DETECTION SYSTEM AT THIS LOCATION MOUNT 6'-0" ABOVE FINISHED FLOOR. PROVIDE ALARM LIGHT BAR ON TOP OF UNIT.
9. LOCATE HONEYWELL E3POINT SENSOR FOR GAS DETECTION SYSTEM WITH ALARM LEVEL LIGHTS AND HORN AT THIS LOCATION. SENSOR SHALL BE MOUNTED 5'-0" ABOVE FINISHED FLOOR. PROVIDE WIRING BACK TO HONEYWELL 301CC0 AND GAS DETECTION SYSTEM.
10. PROVIDE 3" GALVANIZED COMBUSTION AIR DUCT FOR UNIT HEATER. TERMINATE PER UNIT HEATER MFG INSTALLATION INSTRUCTIONS.

2 BASEMENT FLOOR - HVAC PLAN (ALTERNATE #3)
1/8" = 1'-0"

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W&S Project No: N2190088

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FIRST FLOOR & BASEMENT DUCTWORK PLAN - AREA A

Sheet Number:

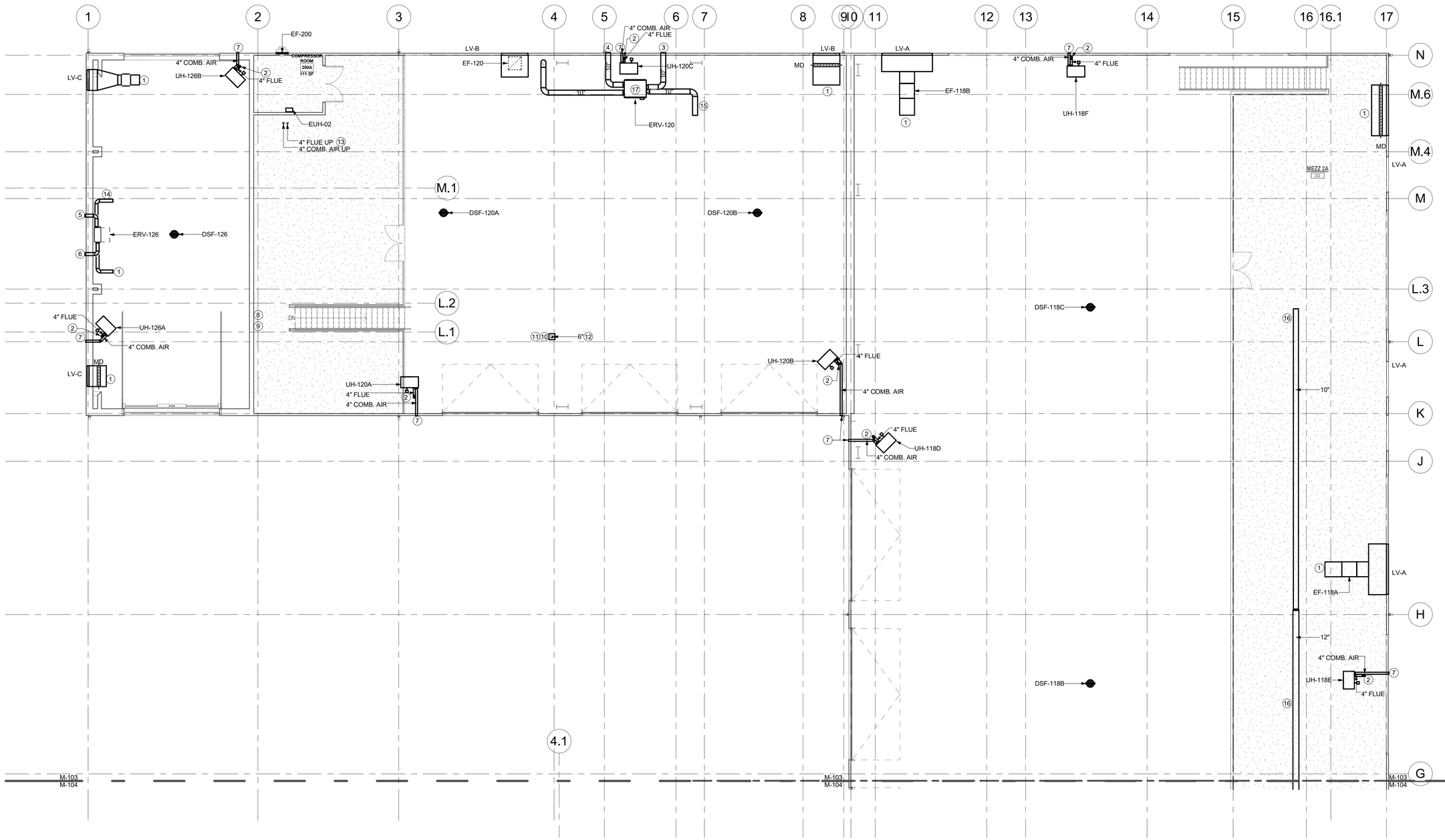
M102

M-103 DRAWING NOTES

1 CUT DUCT AT 45 DEGREE ANGLE WITH WIRE MESH SCREEN.
2 PROVIDE 3" GALVANIZED COMBUSTION AIR DUCT FOR UNIT HEATER. TERMINATE PER UNIT HEATER MFG INSTALLATION INSTRUCTIONS.
3 PROVIDE 10" WALL CAP WITH BACKDRAFT DAMPER.
4 PROVIDE 10" WALL CAP.
5 PROVIDE 6" WALL CAP WITH BACKDRAFT DAMPER.
6 PROVIDE 6" WALL CAP.
7 PROVIDE 3" GALVANIZED COMBUSTION AIR DUCT FOR UNIT HEATER. TERMINATE PER UNIT HEATER MFG INSTALLATION INSTRUCTIONS.

M-103 DRAWING NOTES

8 PROVIDE HONEYWELL 301CC0 AND GAS DETECTION SYSTME AT THIS LOCATION MOUNT 6'-0" ABOVE FINISHED FLOOR.
9 LOCATE HONEYWELL E3POINT SENSOR FOR GAS DETECTION SYSTEM WITH ALARM LEVEL LIGHTS AND HORN AT THIS LOCATION. SENSOR SHALL BE MOUNTED 5'-0" ABOVE FINISHED FLOOR.
10 PROVIDE MONOXIVENT SPRING OPERATED REEL MODEL 9000-W, 6" DIAMETER, 36' HOSE LENGTH.
11 PROVIDE MONOXIVENT D20 FAN, 208V 3 PHASE MOTOR. SIZE 900 CFM 6" ESP.
12 6" DUCT UP FROM EXHAUST REEL AND ASSOCIATED FAN. TERMINATE ABOVE ROOF WITH GOOSENECK.
13 TERMINATE 4" FLUE AND 4" COMBUSTION AIR IN A CONCENTRIC VENT ABOVE ROOF.
14 PROVIDE 12x4 TYPE 2 SUPPLY GRILLE AT THIS LOCATION. BALANCE TO 100 CFM.
15 PROVIDE 12x8 TYPE 2 SUPPLY GRILLE AT THIS LOCATION. BALANCE TO 250 CFM.
16 PROVIDE 12x8 TYPE 2 SUPPLY GRILLE AT THIS LOCATION. BALANCE TO 300 CFM.
17 MOUNT ERV BELOW UNIT HEATER.



1 MEZZANINE FLOOR DUCTWORK PLAN - AREA A
1/8" = 1'-0"

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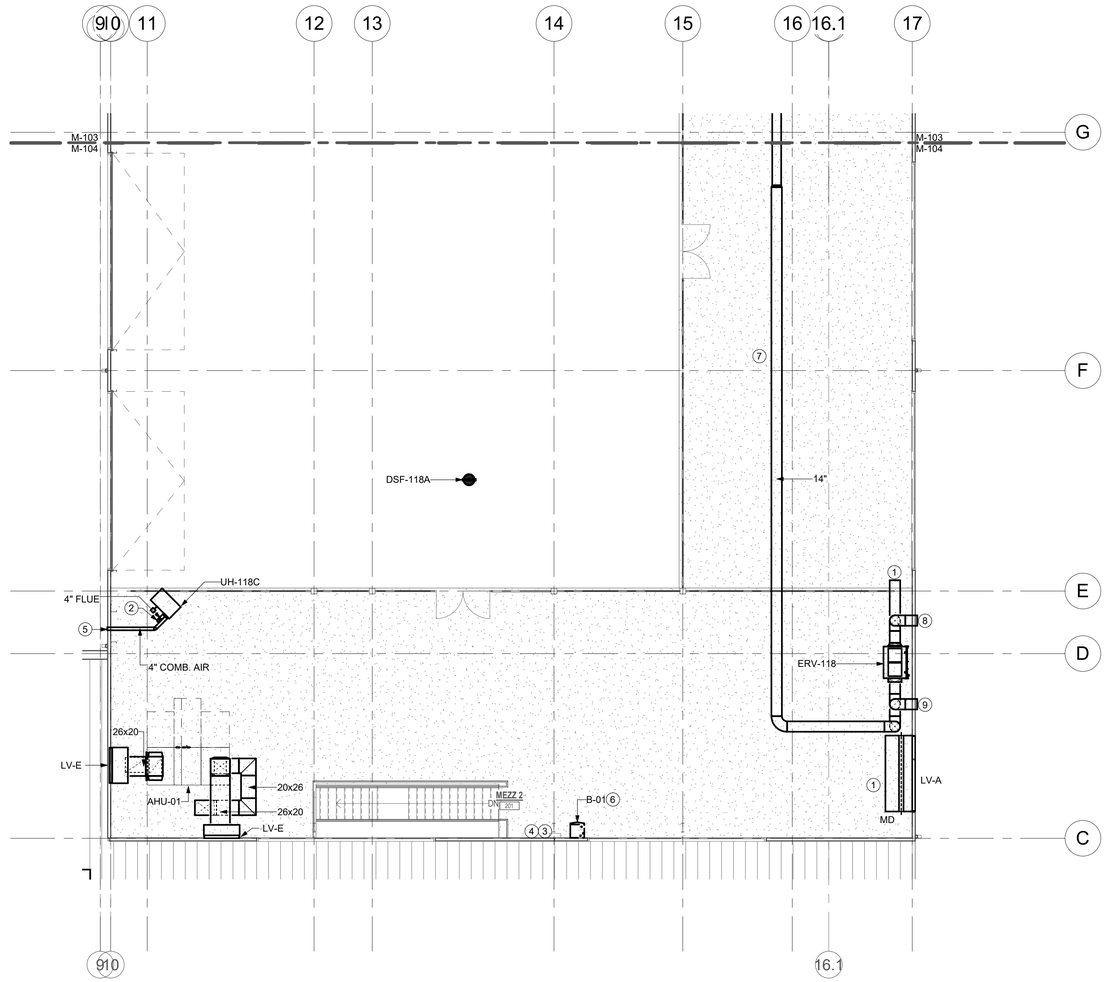
MEZZANINE DUCTWORK PLAN - AREA A

Sheet Number:
M103

M-104 DRAWING NOTES

1 CUT DUCT AT 45 DEGREE ANGLE WITH WIRE MESH SCREEN.
2 PROVIDE 3" DOUBLE WALL B VENT PER SPECIFICATION. TERMINATE WITH RAIN CAP.
3 PROVIDE HONEYWELL 301CC0 AND GAS DETECTION SYSTME AT THIS LOCATION MOUNT 6'-0" ABOVE FINISHED FLOOR.
4 LOCATE HONEYWELL E3POINT SENSOR FOR GAS DETECTION SYSTEM WITH ALARM LEVEL LIGHTS AND HORN AT THIS LOCATION. SENSOR SHALL BE MOUNTED 5'-0" ABOVE FINISHED FLOOR.
5 PROVIDE 3" GALVANIZED COMBUSTION AIR DUCT FOR UNIT HEATER. TERMINATE PER UNIT HEATER MFG INSTALLATION INSTRUCTIONS.
6 TERMINATE 3" COMBUSTION AIR AND 3" FLUE FROM B-01 IN CONCENTRIC VENT ON ROOF.
7 PROVIDE 12x8 TYPE 2 SUPPLY GRILLE AT THIS LOCATION. BALANCE TO 300 CFM.
8 PROVIDE 14" WALL CAP.
9 PROVIDE 14" WALL CAP WITH BACKDRAFT DAMPER.



1 MEZZANINE FLOOR DUCTWORK PLAN - AREA B
1/8" = 1'-0"

Project:

VILLAGE OF ARDSLEY, NY

NEW PUBLIC WORKS FACILITY

220 HEATHERDELL ROAD,
VILLAGE OF ARDSLEY,
NEW YORK 10502

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RHINEBECK ARCHITECTURE

Seal:

STATE OF NEW YORK
MICHAEL K. SUNDAY
077887-1
LICENSED PROFESSIONAL ENGINEER

Revisions:

Rev	Date	Description

Issued For: BID

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0' 4' 8' 16'
SCALE: 1/8" = 1'-0"

Date: APRIL 7, 2022
Drawn By: JDH
Reviewed By: TES
Approved By: BAB
W&S Project No: N2190088

Drawing Title:

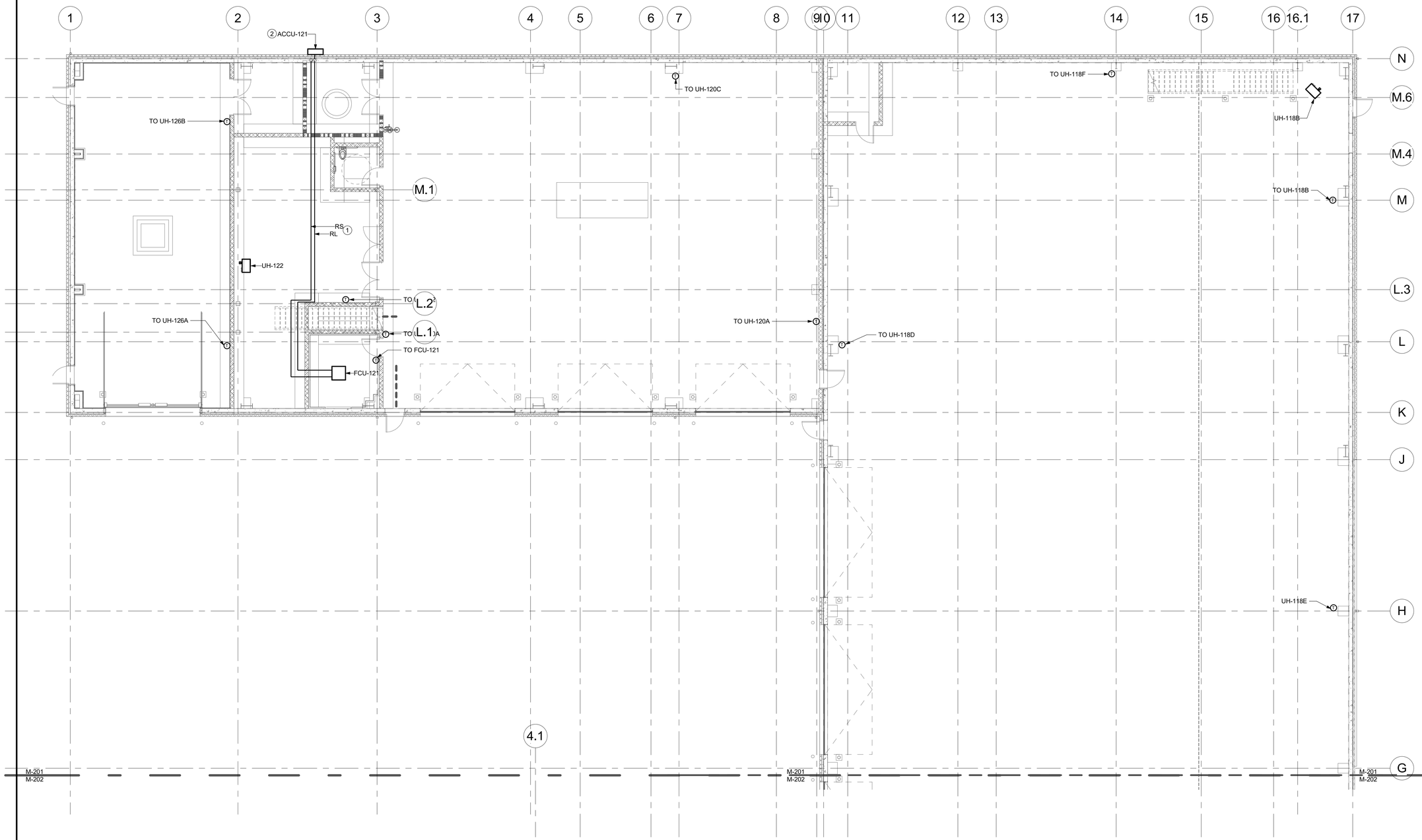
MEZZANINE DUCTWORK PLAN - AREA B

Sheet Number:

M104

M-201 DRAWING NOTES

1 RS/RL PIPING TO BE SIZED BASED ON MANUFACTURER RECOMENDATION.



1 FIRST FLOOR PIPING PLAN - AREA A
1/8" = 1'-0"

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NEW PUBLIC WORKS FACILITY

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Reviewed By: TES

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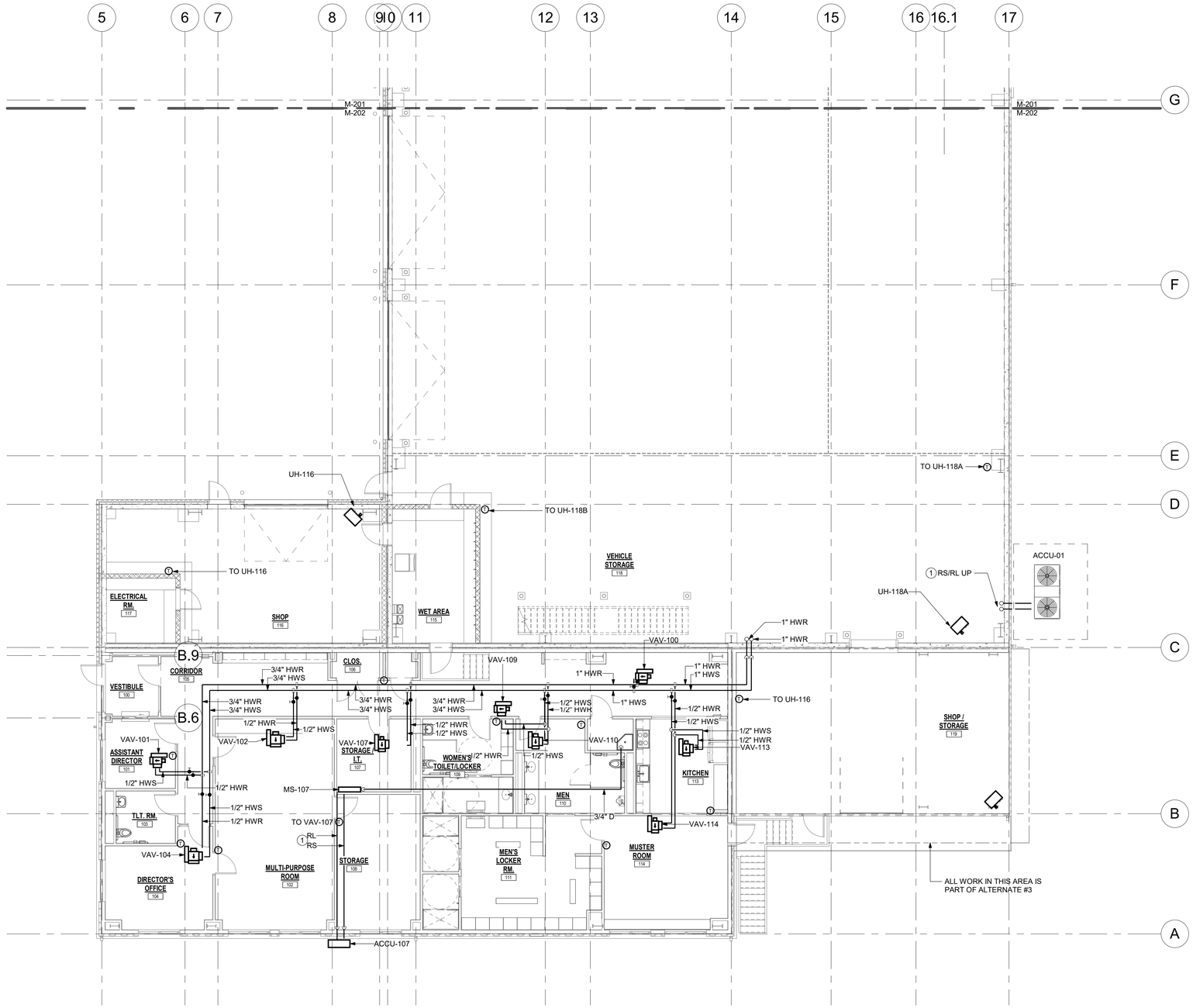
Drawing Title:

FIRST FLOOR PIPING PLAN - AREA A

Sheet Number:

M201



1 FIRST FLOOR PIPING PLAN - AREA B

1/8" = 1'-0"

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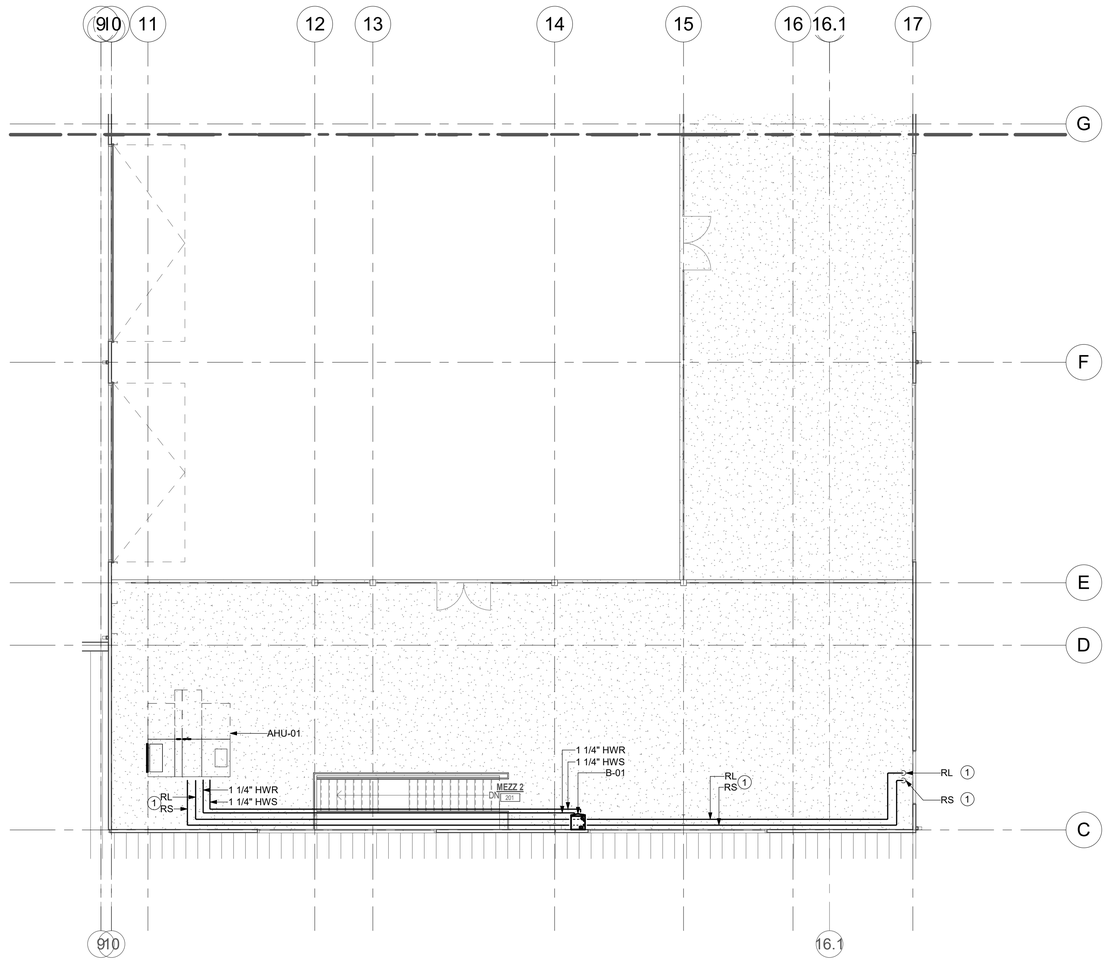
FIRST FLOOR PIPING PLAN - AREA B

Sheet Number:

M202

M-204 DRAWING NOTES

1 RS/RL PIPING TO BE SIZED BASED ON MANUFACTURER RECOMENDATION.



1 MEZZANINE FLOOR PIPING PLAN - AREA B

1/8" = 1'-0"

Project:

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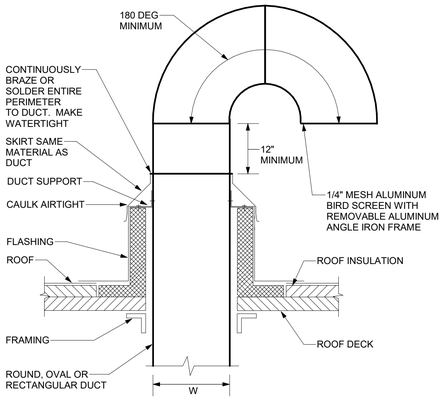
Drawing Title:

MEZZANINE FLOOR PIPING PLAN - AREA B

Sheet Number:

M204



DETAIL NOTES:

A. **[G.C. TO]** PROVIDE ROOF OPENING, FRAMING AND FLASHING.

B. **[M.C. TO]** LOCATE, SET AND SECURE CURB.

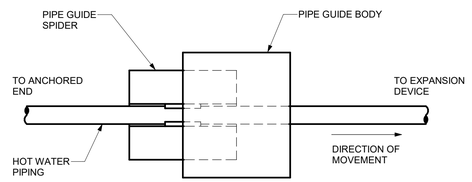
C. PROVIDE SHIMS WHERE REQUIRED TO LEVEL CURB.

D. FACE EAST UNLESS INDICATED OTHERWISE ON PLANS.

E. PROVIDE WIND RESTRAINT PER SPECIFICATION SECTION 230550-WIND RESTRAINT FOR HVAC SYSTEMS **[230529-SEISMIC AND WIND RESTRAINT FOR MECHANICAL SYSTEMS]**.

1 GOOSENECK VENT DETAIL

NOT TO SCALE



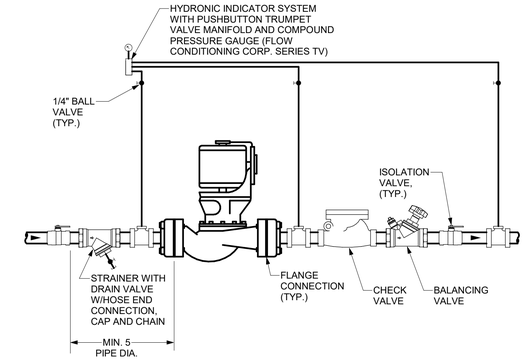
DETAIL NOTES:

A. PRE-SET EXISTING PIPE GUIDE TO 1/2 OF THE ALLOWABLE MOVEMENT.

B. SECURELY ANCHOR NEW GUIDES TO BUILDING STRUCTURE.

2 CORRIDOR PIPE GUIDE DETAIL

NOT TO SCALE



DETAIL NOTES:

A. PROVIDE UNION ON PUMP INLET AND OUTLET IF PUMP IS NOT FLANGED.

C. INSTALL PUMP WITH SHAFT HORIZONTAL. PIPING MAY BE INSTALLED HORIZONTAL, AS SHOWN, OR VERTICAL DEPENDING ON SITE CONDITIONS.

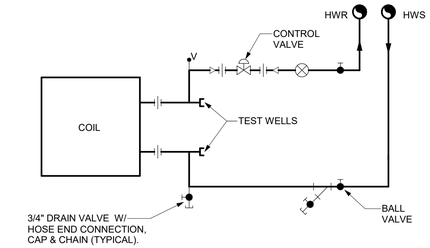
D. INSTALL CHECK VALVE HORIZONTALLY, OR VERTICALLY WITH FLOW UPWARD. INSTALL STRAINER HORIZONTALLY.

E. WHERE PIPING IS GREATER THAN 2", PROVIDE A TRIPLE DUTY VALVE IN PLACE OF CHECK VALVE, FLOW BALANCER AND SHUTOFF VALVE. LOCATE TRIPLE DUTY VALVE OR BALANCE VALVE ASSEMBLY MINIMUM TEN (10) PIPE DIAMETERS FROM PUMP OUTLET.

F. OMIT BALANCING VALVE ON VARIABLE FLOW SYSTEMS.

3 INLINE PUMP PIPING DETAIL

NOT TO SCALE



DETAIL NOTES:

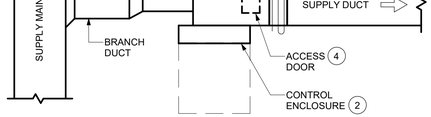
A. ARRANGE PIPING FOR REMOVAL OF COIL WITHOUT DISTURBING PIPING AHEAD OF UNIONS.

B. PROVIDE DUCT ACCESS DOOR UPSTREAM OF COIL.

C. PIPE COIL FOR COUNTERFLOW ARRANGEMENT IF COIL IS MORE THEN ONE ROW. HOT WATER SUPPLY CONNECTION SHALL BE ON THE DISCHARGE AIR SIDE OF THE COIL.

4 TERMINAL REHEAT COIL PIPING DETAIL - HOT WATER

NOT TO SCALE

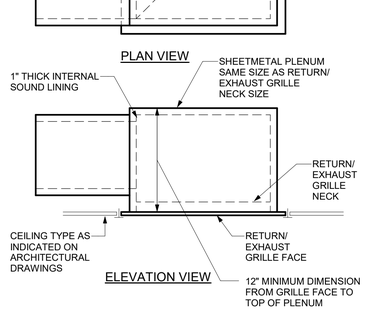


KEYED NOTES:

1. RIGID STRAIGHT DUCTWORK UPSTREAM OF THE TERMINAL UNIT SHALL BE A MINIMUM OF 3 TIMES THE DIAMETER OF INLET. NOT TO EXCEED 5'-0" TOTAL IN LENGTH.
2. MAINTAIN MINIMUM 1'-6" SERVICE CLEARANCE IN FRONT OF ENCLOSURE TO ALLOW FOR SERVICE/ACCESS.
3. COMPONENT ARRANGEMENT MAY VARY BY MANUFACTURER. PROVIDE INSULATION VAPOR BARRIER AS SPECIFIED.
4. ACCESS DOOR TO BE LOCATED AT THE BOTTOM OF THE UNIT. CONTRACTOR TO COORDINATE COIL AND CONTROL ENCLOSURE HANDING. ROTATING UNIT IN FIELD SUCH THAT ACCESS DOOR IS ON TOP OF UNIT IS NOT ACCEPTABLE.

5 VAV BOX DETAIL

NOT TO SCALE



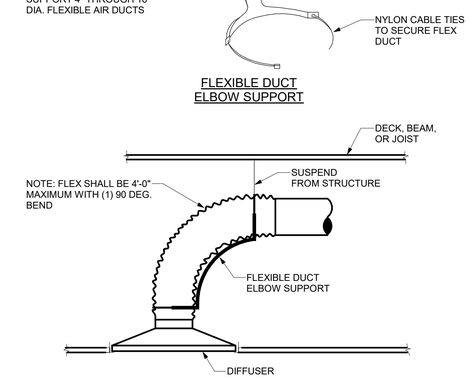
DETAIL NOTES:

A. PAINT INSIDE OF PLENUM BOX FLAT BLACK IF INTERNAL SOUND LINING IS NOT SPECIFIED.

B. ALSO APPLICABLE TO REGISTERS.

6 RETURN/EXHAUST GRILLE PLENUM DETAIL - NON-DUCTED

NOT TO SCALE



7 SUPPLY AIR DIFFUSER DETAIL - RADIUS FLEXIBLE DUCT - BRACE

NOT TO SCALE

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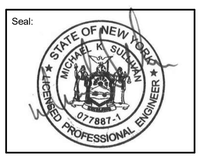

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DETAILS

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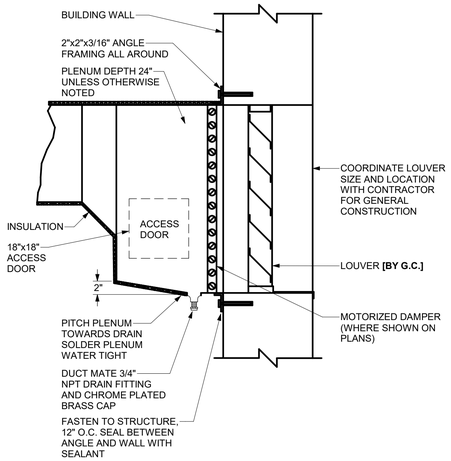
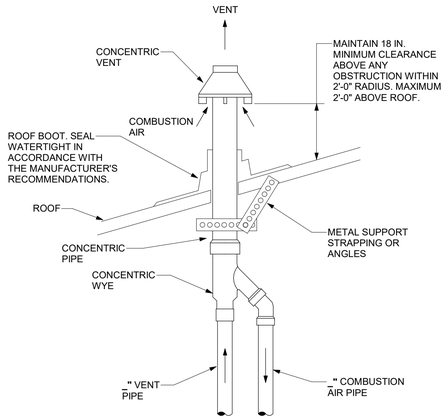
M500



1 LOUVER PLENUM DETAIL

NOT TO SCALE

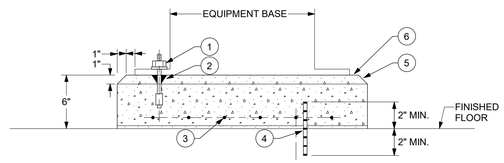


DETAIL NOTES:

A. CONCENTRIC WYE, CONCENTRIC PIPE AND CONCENTRIC VENT TERMINATION ARE PART OF A MANUFACTURED KIT.

2 CONCENTRIC VENT TERMINATION KIT DETAIL - ROOF

NOT TO SCALE

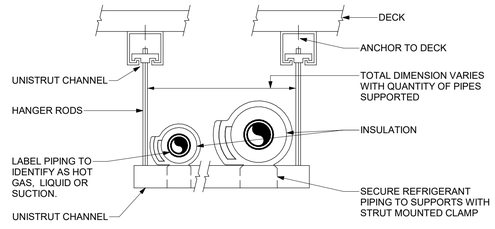


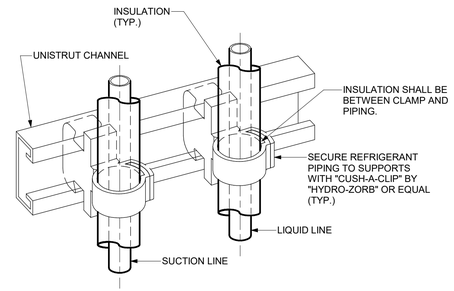
DETAIL NOTES:

1. ANCHOR BOLT, SIZE & LOCATION AS REQUIRED TO MATCH EQUIPMENT BASE.
2. PLASTIC SLEEVE & ANCHOR.
3. #3 REINFORCING BARS, 12" O.C. EACH WAY.
4. #4 DOWEL, 12" O.C.
5. CHAMFER.
6. CONCRETE PAD 3,000 PSI CONCRETE, LENGTH & WIDTH, 6" GREATER THAN THE EQUIPMENT BASE PLATE.

3 CONCRETE EQUIPMENT BASE DETAIL

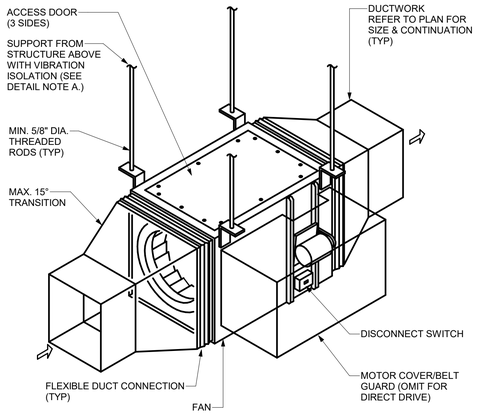
NOT TO SCALE





4 REFRIGERANT PIPE SUPPORT DETAIL

NOT TO SCALE



DETAIL NOTES:

A. VIBRATION ISOLATORS SHALL BE PROVIDED AS SPECIFIED AND IN ACCORDANCE WITH THE FAN MANUFACTURER'S RECOMMENDATIONS **[AND SPECIFICATION 230548 - VIBRATION ISOLATION OF MECHANICAL SYSTEMS.]**

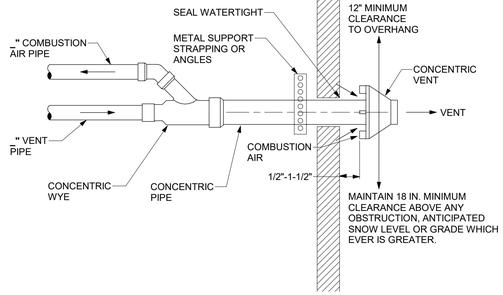
B. FOLLOW MANUFACTURER'S INSTALLATION INSTRUCTIONS EXPLICITY.

C. ORIENT SUCH THAT ACCESS TO MOTOR IS NOT OBSTRUCTED.

D. DETAIL ABOVE DEPICTS SQUARE TYPE IN-LINE EXHAUST FAN. TUBULAR TYPE IS SIMILAR.

5 INLINE FAN DETAIL

NOT TO SCALE



DETAIL NOTES:

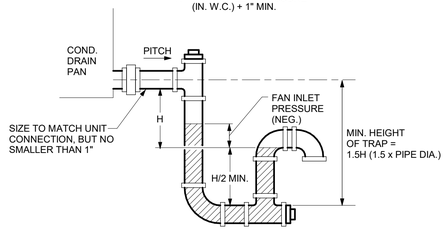
A. CONCENTRIC WYE, CONCENTRIC PIPE AND CONCENTRIC VENT TERMINATION ARE PART OF A MANUFACTURED KIT.

6 CONCENTRIC VENT TERMINATION KIT DETAIL - SIDEWALL

NOT TO SCALE

BLOW THRU UNITS (POSITIVE STATIC PRESSURE)

H = FAN OUTLET PRESSURE (IN. W.C.) + 1" MIN.



DRAW THRU UNITS

H = FAN INLET PRESSURE (NEG.) (IN. W.C.) + 1"

DETAIL NOTES:

A. AS AN ALTERNATE, IT IS ACCEPTABLE TO PIPE THE TRAP EXACTLY AS SHOWN IN THE MANUFACTURER'S INSTALLATION MANUAL.

B. SEE SPECIFICATIONS FOR PIPE TYPE.

7 ROOFTOP UNIT CONDENSATE DRAIN TRAP DETAIL

NOT TO SCALE

8 DX PIPING CONNECTIONS DETAIL - CONDENSING UNIT BELOW COIL

NOT TO SCALE

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Drawing Title:

DETAILS

Sheet Number:

M501

AIR HANDLING UNIT SCHEDULE - DX /HOT WATER

UNIT NO.	LOCATION	SERVICE	SUPPLY FAN				FAN CHARACTERISTICS					MOTOR		COOLING COIL (DX)								HEATING COIL (HOT WATER)			WATER SIDE				
			AIR FLOW (CFM)	MIN O.A. (CFM)	EXT. STATIC (In. WC)	TOTAL STATIC (In. WC)	TYPE	FAN NO. & MIN DIA.	MAX BHP	FAN RPM	DRIVE	HP	STARTER	TOTAL CAPACITY (MBH)	SENS CAPACITY (MBH)	EAT (DEG. F) DB	EAT (DEG. F) WB	LAT (DEG. F) DB	LAT (DEG. F) WB	FACE VEL (FPM)	ROWS	AIR P.D. (In. WC)	TYPE	CAPACITY (MBH)	AIR SIDE ENT. AIR TEMP. (DEG. F)	AIR SIDE LVG. AIR TEMP. (DEG. F)	AIR SIDE MAX. FACE VEL. (FPM)	AIR SIDE AIR P.D. (In. WC)	WATER FLOW (GPM)	WATER ENT. WATER TEMP. (DEG. F)	WATER LVG. WATER TEMP. (DEG. F)	WATER P.D. (Ft. HD)	FLUID
AHU-01	MEZZANINE	VAV	4000	4000		6.05	PLENUM	1 & 16.5	6.1	2947	DIRECT	7.5	PACKAGED	196.99	123.8	83.00	70.00	54.81	54.66	527	8	1.29	STANDARD	117.13	51.00	78.00	501	0.16	5.87	140.00	100.00	0.45	WATER

AIR HANDLING UNIT SCHEDULE - DX /HOT WATER

PREFILTER				FINAL FILTER				UNIT ELECTRICAL CHARACTERISTICS					MANUFACTURER & MODEL No.	REMARKS
WIDTH	MERV RATING	INITIAL P.D. (In. WC)	FINAL P.D. (In. WC)	WIDTH	MERV RATING	INITIAL P.D. (In. WC)	FINAL P.D. (In. WC)	VOLTS	PHASE	FLA	MCA	MOP		
2"	8	---	0.668	2"	13	---	0.841	480	3	9.8	12.25	20	TRANE CSAA008	

BOILER SCHEDULE - HOT WATER - CONDENSING - NATURAL GAS

UNIT NO.	LOCATION	SERVICE	TYPE	BOILER HP	MINIMUM INPUT MBH	MINIMUM OUTPUT MBH	MAXIMUM INPUT MBH	MAXIMUM OUTPUT MBH	GAS FIRING RATE (CFH)	MIN. GAS PRESSURE BEFORE REGULATOR (In. WC)	FLUID	ENT. WATER TEMP. (DEG. F)	LVG. WATER TEMP. (DEG. F)	FLOW RATE GPM (DESIGN/MIN.)	DESIGN P.D. (Ft. HD)	MAX WORKING PRESSURE (PSI)	RELIEF VALVE SETTING (PSI)	MIN. EFF. REQ. EFF %	ELEC. CHARACTERISTICS TEST PROC.	HP	VOLTS	HZ	PHASE	FLA	MANUFACTURER & MODEL NO.	REMARKS
B-1	PLBG/MECH/ELEC - 113	VAV HEATING LOOP	WATER TUBE		28.5	25.65	285	264		4.0	WATER	100	140	10		80	30	95	AFUE		120	60	1	1.8	LOCHINVAR KNIGHT WHB285N	

VAV - SINGLE DUCT - AIR TERMINAL UNIT SCHEDULE - HOT WATER REHEAT

UNIT NO.	SERVICE	MAX AIR FLOW (CFM)	MIN AIR FLOW (CFM)	MIN INLET PRESS AT MAX CFM (In. WC)	INLET SIZE (In.)	RAD N.C. AT 1" S.P.	DISCH N.C. AT 1" S.P.	REHEAT COIL CAPACITY (MBH)	AIR SIDE HEATING AIR FLOW (CFM)	AIR SIDE ENT. AIR TEMP. (DEG. F)	AIR SIDE LVG. AIR TEMP. (DEG. F)	AIR SIDE AIR P.D. (In. WC)	AIR SIDE MAX FACE VEL. (FPM)	WATER SIDE WATER FLOW (GPM)	WATER SIDE WATER P.D. (Ft. HD)	WATER SIDE ENT. WATER TEMP. (DEG. F)	WATER SIDE LVG. WATER TEMP. (DEG. F)	WATER SIDE ROWS DEEP	FLUID	UNIT SIZE	MANUFACTURER & MODEL NO.	REMARKS
VAV-100		950	315	0.75	9	15	19	11.6	315	55	89	0.04	29.4	0.59	0.13	140	100	2	WATER	12	NAILOR D30RW	
VAV-101		210	65	0.75	5	15	20	3	65	55	97.6	0.01	7.8	0.15	0.01	140	100	2	WATER	8	NAILOR D30RW	
VAV-102		690	520	0.75	9	15	16	22.7	520	55	95.2	0.13	38.4	1.14	0.26	140	100	3	WATER	12	NAILOR D30RW	
VAV-104		545	265	0.75	9	15	15	7.3	265	55	95.7	0.01	18.6	0.37	0.05	140	100	2	WATER	12	NAILOR D30RW	
VAV-107		340	170	0.75	6	15	16	8.4	170	55	100.8	0.04	14.4	0.43	0.03	140	100	3	WATER	8	NAILOR D30RW	
VAV-109		200	90	0.75	6	15	18	3.9	90	55	94.5	0.01	9.6	0.19	0.01	140	100	2	WATER	8	NAILOR D30RW	
VAV-110		450	300	0.75	8	15	15	12/5	300	55	93.3	0.1	21	0.63	0.07	140	100	3	WATER	8	NAILOR D30RW	
VAV-113		150	45	0.75	5	15	19	2.2	45	55	100.9	0.0	6	0.11	0.0	140	100	2	WATER	8	NAILOR D30RW	
VAV-114		450	135	0.75	6	15	21	7.1	135	55	103.8	0.03	12	0.36	0.2	140	100	3	WATER	8	NAILOR D30RW	

AIR COOLED CONDENSER SCHEDULE

UNIT NO.	LOCATION	SERVES	CAPACITY TONS	REFRIGERANT	AMBIENT AIR TEMP. (DEG. F)	COILS ROWS	COILS FIN SPACING (FIN/In.)	COILS TOTAL FACE AREA (Sq. Ft.)	FANS NO. OF FANS	FANS DIA. (In.)	FANS SPEED (RPM)	FANS TOTAL AIRFLOW (CFM)	FANS MOTOR HP	PERFORMANCE REQUIRED (MBH/HP)	PERFORMANCE TEST PROCEDURE	ELEC CHARACTERISTICS KW	ELEC CHARACTERISTICS VOLTS	ELEC CHARACTERISTICS PHASE	ELEC CHARACTERISTICS MCA	ELEC CHARACTERISTICS I MCF	ELEC CHARACTERISTICS MOP	MANUFACTURER & MODEL No.	REMARKS
ACCU-01	GRADE	AHU-01	15	R410	95	1	23	44.31	2	28	1100	---	1 (EACH)	12.4	AHRI 460	14.7	460	3	34	45	45	TRANE TTA18044DAA	

UNIT HEATER SCHEDULE - GAS

UNIT NO.	LOCATION	TYPE	AIR SIDE AIR FLOW (CFM)	AIR SIDE ENT. AIR TEMP. (DEG. F)	AIR SIDE LVG. AIR TEMP. (DEG. F)	GAS INPUT CAPACITY (MBH)	GAS OUTPUT CAPACITY (MBH)	GAS MIN. GAS PRESS BEFORE REGULATOR (In. WC)	EFFICIENCY MIN (%)	EFFICIENCY TEST PROCEDURE	FAN MOTOR RPM	FAN MOTOR HP	FAN MOTOR VOLTS	FAN MOTOR PHASE	MOUNTING HEIGHT (Ft.-In.)	THROW (Ft.)	MANUFACTURER & MODEL No.	REMARKS
UH-001	STORAGE - 001	SEALED COMBUSTION	505	70	114	30	24.6	6" - 7"	82		1550	1/15	208	1	10	25	MODINE HDS30	
UH-116	SHOP/STORAGE - 116	SEALED COMBUSTION	505	70	114	30	24.6	6" - 7"	82		1550	1/15	208	1	10	25	MODINE HDS30	
UH-119	SHOP - 119	SEALED COMBUSTION	505	70	114	30	24.6	6" - 7"	82		1550	1/15	208	1	10	25	MODINE HDS30	
UH-118A	VEHICLE STORAGE -118	SEALED COMBUSTION	505	70	114	30	24.6	6" - 7"	82		1550	1/15	208	1	10	25	MODINE HDS30	
UH-118B	VEHICLE STORAGE -118	SEALED COMBUSTION	505	70	114	30	24.6	6" - 7"	82		1550	1/15	208	1	10	25	MODINE HDS30	
UH-118C	VEHICLE STORAGE -118	SEALED COMBUSTION	2140	70	123	150	123	6" - 7"	82		1075	1/6	208	1	15	51	MODINE PTS150	
UH-118D	VEHICLE STORAGE -118	SEALED COMBUSTION	2140	70	123	150	123	6" - 7"	82		1075	1/6	208	1	15	51	MODINE PTS150	
UH-118E	VEHICLE STORAGE -118	SEALED COMBUSTION	2140	70	123	150	123	6" - 7"	82		1075	1/6	208	1	15	51	MODINE PTS150	
UH-118F	VEHICLE STORAGE -118	SEALED COMBUSTION	2140	70	123	150	123	6" - 7"	82		1075	1/6	208	1	15	51	MODINE PTS150	
UH-120A	VEHICLE MAINTENANCE - 120	SEALED COMBUSTION	2140	70	123	150	123	6" - 7"	82		1075	1/6	208	1	15	51	MODINE PTS150	
UH-120B	VEHICLE MAINTENANCE - 120	SEALED COMBUSTION	2140	70	123	150	123	6" - 7"	82		1075	1/6	208	1	15	51	MODINE PTS150	
UH-120C	VEHICLE MAINTENANCE - 120	SEALED COMBUSTION	2140	70	123	150	123	6" - 7"	82		1075	1/6	208	1	15	51	MODINE PTS150	
UH-122	PARTS STORAGE - 122	SEALED COMBUSTION	505	70	114	30	24.6	6" - 7"	82		1550	1/15	208	1	10	25	MODINE HDS30	
UH-126A	WASHBAY - 126	SEALED COMBUSTION	2140	70	123	150	123	6" - 7"	82		1075	1/6	208	1	15	51	MODINE PTS150	
UH-122B	WASHBAY - 126	SEALED COMBUSTION	2140	70	123	150	123	6" - 7"	82		1075	1/6	208	1	15	51	MODINE PTS150	

REMARKS:
1. UNIT HEATER IS PART OF ALTERNATE #3

PACKAGED ENERGY RECOVERY VENTILATION UNIT SCHEDULE - STATIC PLATE CORE HEAT EXCHANGER

UNIT NO.	LOCATION	SERVICE	MODE	SUPPLY FAN AIR FLOW (CFM)	SUPPLY FAN E.S.P. (In. WC)	EXHAUST FAN AIR FLOW (CFM)	EXHAUST FAN E.S.P. (In. WC)	ELECTRICAL CHARACTERISTICS VOLTS	PHASE	MCA	MOP	TOTAL EFF. (%)	PERFORMANCE CONDITIONS O.A. DB	O.A. WB	R.A. DB	R.A. WB	S.A. DB	S.A. WB	E.A. DB	E.A. WB	MANUFACTURER & MODEL No.	REMARKS
ERV-001	STORAGE - 001	STORAGE - 001	SUMMER	110	0.35	110	0.35	120	1	---	---	69									REVEWAIRE EV130	
			WINTER									54										
ERV-116	SHOP - 116	SHOP - 116	SUMMER	80	0.60	80	0.60	120	1	---	---	73									RENEWAIRE EV130	
			WINTER									59										
ERV-118	VEHICLE STORAGE - 118	VEHICLE STORAGE - 118	SUMMER	900	1.28	900	1.33	208	1	7.7	15	70.6	88.9	73.9	75.0	62.5	79.0	67.9	---	---	RENEWAIRE HE1.5JINH	
			WINTER									55.7	9.0	6.1	70.0	51.4	53.5	40.9	---	---		
ERV-119	SHOP/SERVICE - 119	SHOP/SERVICE - 119	SUMMER	110	0.35	110	0.35	120	1	---	---	69									RENEWAIRE EV130	
			WINTER									54										
ERV-120	VEHICLE MAINTENANCE - 120	VEHICLE MAINTENANCE - 120	SUMMER	250	1.21	250	1.18	208	1	4.9	15	65.0	89.9	73.9	75.0	62.5	78.2	66.8	---	---	RENEWAIRE EV450JIN	
			WINTER									76.9	9.0	6.1	75.0	51.4	57.1	43.3	---	---		
ERV-122	PARTS STORAGE - 122	PARTS STORAGE - 122	SUMMER	100	0.5	100	0.5	120	1	---	---	65.0									RENEWAIRE EV450JIN	
			WINTER									76.9										
ERV-126	WASHBAY - 126	WASHBAY- 126	SUMMER	100	0.5	100	0.5	120	1	---	---	69									RENEWAIRE EV130	
			WINTER									54										

REMARKS:
1. ERV IS PART OF ALTERNATE #3

FAN SCHEDULE

UNIT NO.	LOCATION	SERVICE	FAN CHARACTERISTICS TYPE	BLADE TYPE	CFM	S.P. (In. WC)	MAX. BHP	FAN RPM	MAX. TIP SPEED (FPM)	SONES	DRIVE	MOTOR CHARACTERISTICS RPM	HP	VOLTS	HZ	PHASE	STARTER	MANUFACTURER & MODEL NO.	REMARKS
DSF-118A	VEHICLE STORAGE - 118	VEHILCE STORAGE -118	HVLS	PROP	670	---	---	1590	---	40.8 (Dba)	DIRECT	1590	1/4	277	60	1	MANUAL	ZOO FAN H30-AC	
DSF-118B	VEHICLE STORAGE - 118	VEHICLE STORAGE - 118	HVLS	PROP	670	---	---	1590	---	40.8 (Dba)	DIRECT	1590	1/4	277	60	1	MANUAL	ZOO FAN H30-AC	
DSF-118C	VEHICLE STORAGE - 118	VEHICLE STORAGE - 118	HVLS	PROP	670	---	---	1590	---	40.8 (Dba)	DIRECT	1590	1/4	277	60	1	MANUAL	ZOO FAN H30-AC	
DSF-120A	VEHICLE MAINTENANCE - 120	VEHICLE MAINTENANCE - 120	HVLS	PROP	670	---	---	1590	---	40.8 (Dba)	DIRECT	1590	1/4	277	60	1	MANUAL	ZOO FAN H30-AC	
DSF-120B	VEHICLE MAINTENANCE - 120	VEHICLE MAINTENANCE - 120	HVLS	PROP	670	---	---	1590	---	40.8 (Dba)	DIRECT	1590	1/4	277	60	1	MANUAL	ZOO FAN H30-AC	
DSF-126	WASHBAY - 126	WASHBAY - 126	HVLS	PROP	670	---	---	1590	---	40.8 (Dba)	DIRECT	1590	1/4	277	60	1	MANUAL	ZOO FAN H30-AC	
EF-103	TLT. RM - 103	TLT. RM - 103	INLINE	BI	100	0.26	---	950	---	0.6	DIRECT	---	17 (W)	120	60	1	MANUAL	GREENHECK SP-A110	
EF-111	MENS LOCKER - 111	RM 110 & RM 111	INLINE	BI	450	0.68	0.13	1725	4911	9.2	DIRECT	1725	1/6	208	60	1	MANUAL	GREENHECK SQ-95-VG	
EF-117	ELECTRICAL RM. - 117	ELECTRICAL RM. - 117	INLINE	BI	100	0.26	---	950	---	0.6	DIRECT	---	17 (W)	120	60	1	MANUAL	GREENHECK SP-A110	
EF-118A	VEHICLE STORAGE - 118	VEHICLE STORAGE - 118	INLINE	BI	7000	1.0	2.28	1688	9831	25	DIRECT	1800	5	208	60	3	COMBO	GREENHECK SQ-18-07-0700-VG	
EF-118B	VEHICLE STORAGE - 118	VEHICLE STORAGE - 118	INLINE	BI	7000	1.0	2.28	1688	9831	25	DIRECT	1800	5	208	60	3	COMBO	GREENHECK SQ-18-07-0700-VG	
EF-120	VEHICLE MAINTENANCE - 120	VEHICLE MAINTENANCE - 120	INLINE	BI	3500	0.75	1.05	1428	6263	17.1	DIRECT	1725	2	208	60	3	COMBO	GREENHECK SQ-160-VG	
EF-123	TLT. RM - 123	TLT. RM - 123	INLINE	BI	100	0.256	---	950	---	0.6	DIRECT	---	17 (W)	120	60	1	MANUAL	GREENHECK SP-A110	
EF-124	FLUIDS - 124	FLUID - 124	INLINE	BI	175	0.75	0.15	1693	4958	13.2	DIRECT	1725	1/4	208	60	1	MANUAL	GREENHECK SQ-97-VG	
EF-126	WASHBAY - 126	WASHBAY - 126	INLINE	BI	1200	0.17	0.3	1481	5088	9.3	DIRECT	1725	1/2	208	60	3	COMBO	GREENHECK SQ-120-VG	
EF-200	COMPRESSOR - 200	COMPRESSOR - 200	PROP	PROP	150	0.25	0.03	888	4676	7.4	DIRECT	1450	1/4	120	60	1	MANUAL	GREENHECK AER-E20C-600-VG	

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VILLAGE OF ARDSLEY, NY

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Seal:

STATE OF NEW YORK · MICHAEL K. SUNDAY · 077887-1 · LICENSED PROFESSIONAL ENGINEER

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SCHEDULES

Sheet Number:

M700

DUCTLESS SPLIT SYSTEM AIR CONDITIONING UNIT SCHEDULE

UNIT NO.		LOCATION		INDOOR UNIT									OUTDOOR UNIT								EFFICIENCY		MANUFACTURER & MODEL No.		REMARKS
INDOOR	OUTDOOR	INDOOR	OUTDOOR	UNIT TYPE	CFM	O.A. CFM	EXT S.P. (In. WC)	COOLING CAPACITY (MBH)	MINIMUM CAPACITY (MBH)	EAT (DEG. F) DB	EAT (DEG. F) WB	VOLTS	PHASE	SOUND PRESSURE (dBA)	REFRIGERANT	VOLTS	PHASE	MCA	BREAKER SIZE (AMPS)	EAT (DEG. F) DB	EAT (DEG. F) WB	SOUND PRESSURE (dBA)	MINMUM (SEER)	TEST PROCEDURE	INDOOR UNIT	OUTDOOR UNIT	
MS-107	ACCU-107	IT/STORAGE - 107	GRADE	WALL MOUNTED	537	0.0	0.0	24.2	6.0	80.0	67.0	208	1	46	R-410A	208	1	19.6	30	95.0	75.0	50	14	AHRI 210/240	LG ARNU243SKA	LG ARNU024GSS4	1,2

REMARKS:
1. CONDENSATE PUMP.
2. BMS INTERFACE.

VRF SPLIT SYSTEM AIR CONDITIONING UNIT SCHEDULE - INDOOR

UNIT NO.	SERVICE	UNIT TYPE	AIR FLOW (CFM)	MAX. EXT S.P. (In. W.C.)	COOLING CHARACTERISTICS NOMINAL CAPACITY (MBH)	CORRECTED CAPACITY SENS (MBH)	CORRECTED CAPACITY TOTAL (MBH)	HEATING... MAX CAPACITY (MBH)	HEATING... RATED CAPACITY (MBH)	SOUND PRESSURE (dBA)	ELECTRICAL CHARACTERISTICS VOLTS	PHASE	MCA	MFS	EFFICIENCY MINMUM (SEER)	TEST PROCEDURE	MANUFACTURER & MODEL No.	REMARKS
FCU-121	MAINTENANCE OFFICE - 121	DUCTED	500	.5	12.0	1.6	13.6	19.4	16.0	35	POWERED FROM OUTDOOR UNIT				21.3		FUJITSU ARU12RGLX	1,2,3

REMARKS:
1. CONDENSATE PUMP.
2. FCU SYSTEM BASED OF FUJITSU SYSTEM MODEL 12RGLXD.
3. SPECIFIED COOLING, HEATING, AIR FLOW AND SOUND CHARACTERISTICS ARE BASED UPON HIGH FAN SPEED.

VRF SPLIT SYSTEM AIR CONDITIONING UNIT SCHEDULE - OUTDOOR - AIR COOLED

UNIT NO.	LOCATION	SERVICE	COOLING CHARACTERISTICS NOMINAL CAPACITY (MBH)	O.A. TEMP (DEG. F)	CORRECTED CAPACITY (MBH)	HEATING CHARACTERISTICS NOMINAL CAPACITY (MBH)	O.A. TEMP. (DEG. F)	CORRECTED CAPACITY (MBH)	SOUND PRESSURE (dBA)	REFRIGERANT	ELECTRICAL CHARACTERISTICS VOLTS	PHASE	MCA	MOP	NO. OF MODULES	MANUFACTURER & MODEL No.	REMARKS
ACCU-121	GRADE	FCU-121	13.6	-5	12	19.4	-5	16	49	R410A	208	1	13.4	15	1	FUJITSU ARU12RGLX	1,2

REMARKS:
1. FCU SYSTEM BASED OF FUJITSU SYSTEM MODEL 12RGLXD.
2. OUTDOOR UNIT PROVIDES POWER TO THE INDOOR UNIT.

UNIT HEATER SCHEDULE - ELECTRIC

UNIT NO.	LOCATION	TYPE	CAPACITY (MBH)	AIR SIDE AIR FLOW (CFM)	ENT. AIR TEMP. (DEG. F)	LVG. AIR TEMP. (DEG. F)	FAN SPEED (RPM)	MOTOR HP	ELEC CHARACTERISTICS CAPACITY (KW)	NO. OF STEPS	VOLTS	PHASE	AMP	MAX. EFFECTIVE MOUNTING HEIGHT	THROW (FT.)	MANUFACTURER & MODEL No.	REMARKS
EUH-1	WATER SERVICE ROOM	VERTICAL	10.2	350	40	67	1600	1/100	3.0	1	208	1	14.5	9'-0"	12	Q-MARK MUH03-81	1,2
EUH-2	COMPRESSOR ROOM	VERTICAL	10.2	350	40	67	1600	1/100	3.0	1	208	1	14.5	9'-0"	12	Q-MARK MUH03-81	1,2

REMARKS:
1. FURNISH WITH SINGLE POLE INTERNAL LINE-VOLTAGE THERMOSTAT CONTROLS, FAN DELAY, INDIVIDUALLY ADJUSTABLE DISCHARGE LOUVERS, UL, NEC, AND OSHA APPROVED.
2. FURNISH WILL WALL MOUNTING BRACKETS.

LOUVER SCHEDULE

UNIT NO.	LOCATION	SERVICE	TYPE	MATERIAL	FINISH	FREE AREA (Sq. Ft.)	DIMENSIONS (APPROX.) WIDTH (In.)	HEIGHT (In.)	DEPTH (In.)	AIR PERFORMANCE AIR FLOW (CFM)	VEL (FPM)	MAX P.D. (In. WC)	MANUFACTURER & MODEL NO.	REMARKS
LV-A	VEHICLE STORAGE - 118	INTAKE/EXHAUST	DRAINABLE	ALUMINUM	ANONDIZED	17.02	102	48	4	7000	411	0.03	GREENHECK ESD-403	1,2
LV-B	VEHICLE MAINTENANCE-120	INTAKE/EXHAUST	DRAINABLE	ALUMINUM	ANONDIZED	8.8	54	48	4	3500	397	0.03	GREENHECK ESD-403	1,2
LV-C	WASHBAY-126	INTAKE/EXHAUST	DRAINABLE	ALUMINUM	ANONDIZED	3.29	42	24	4	1200	364	0.03	GREENHECK ESD-403	1,2
LV-D	BOYS LOCKER -111	EXHAUST	DRAINABLE	ALUMINUM	ANONDIZED	1.16	24	18	4	450	387	0.03	GREENHECK ESD-403	1,2

REMARKS:
1. BIRD SCREEN.
2. INSECT SCREEN.

WALL HEATER SCHEDULE - ELECTRIC

UNIT NO.	LOCATION	TYPE	AIR FLOW (CFM)	CAPACITY (MBH)	ELEC CHARACTERISTICS CAPACITY (KW)	VOLTS	AMPS	PHASE	MANUFACTURER & MODEL No.	REMARKS
EWH-01	VESTIBULE - 100	RECESSED	100	6.8	2.0	208	9.6	1	QMARK AWH4408F	1

REMARKS:
1. PROVIDE UNIT WITH FACTORY CONCEALED TAMPER RESISTANT THERMOSTAT. COORDINATE TEMPERATRUE SETTING WITH OWNER.

REGISTER GRILLE AND DIFFUSER SCHEDULE

TYPE	APPLICATION	MATERIAL	FINISH	MANUFACTURER & MODEL NO.	REMARKS
1	SUPPLY	STEEL	WHITE	TITUS MODEL OMNI	
2	SUPPLY	ALUMINUM	ANODIZED	TITUS DL	
A	RETURN	STEEL	WHITE	TITUS MODEL 350-RL	
B	EXHAUST	ALUMINUM	WHITE	TITUS MODEL 350-FL	

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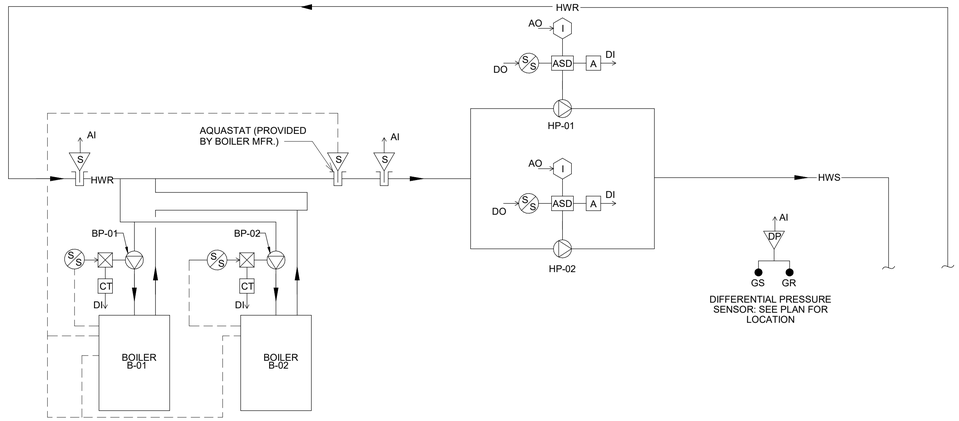
M701

SYSTEM SUMMARY						
	INPUT		OUTPUT			
	ANALOG	DIGITAL	ANALOG	DIGITAL	ALARM	TREND
HOT WATER RETURN TEMPERATURE	X					
DIFFERENTIAL PRESSURE SENSOR	X				X	
PUMP BP-01 STATUS		X			X	
PUMP BP-02 STATUS		X			X	
PUMP HP-01 STATUS		X			X	
PUMP HP-02 STATUS		X			X	
PUMP HP-01 INTERFACE			X			
PUMP HP-02 INTERFACE			X			
PUMP BP-01 START/STOP				X		
PUMP BP-02 START/STOP				X		
PUMP HP-01 START/STOP				X		
PUMP HP-02 START/STOP				X		
PUMP HP-01 CURRENT TRANSDUCER				X	X	
PUMP HP-02 CURRENET TRANSDUCER				X	X	



HOT WATER HEATING SYSTEM CONTROLS SEQUENCE:

A. RUN CONDITIONS: THE HEATING SYSTEM SHALL RUN CONTINUOUSLY. TO PREVENT SHORT CYCLING, EACH BOILER SHALL RUN FOR AND BE OFF FOR MINIMUM ADJUSTABLE TIMES (BOTH USER DEFINABLE), UNLESS SHUT DOWN ON SAFETIES OR OUTSIDE AIR CONDITIONS

B. EACH BOILER SHALL RUN SUBJECT TO ITS OWN INTERNAL SAFETIES AND CONTROLS. BOILER CIRCULATOR PUMP (BP-01 & BP-02) SHALL BE INTERLOCKED WITH BOILER OPERATION AND SHALL BE OFF ONLY WHEN BOILER IS IN STANDBY MODE

C. BOILER B-01 SAFETIES: THE FOLLOWING SAFETIES SHALL BE MONITORED

1. BOILER ALARM
2. LOW WATER LEVEL

D. ALARMS SHALL BE PROVIDED AS FOLLOWS:

1. BOILER ALARM
2. LOW WATER LEVEL ALARM

E. BOILER B-02 SAFETIES: THE FOLLOWING SAFETIES SHALL BE MONITORED

1. BOILER ALARM
2. LOW WATER LEVEL

F. ALARMS SHALL BE PROVIDED AS FOLLOWS:

1. BOILER ALARM
2. LOW WATER LEVEL ALARM

G. THE BOILERS SHALL BE INDEXED ON YEAR ROUND AND SHALL BE CONTROLLED BY THEIR ON-BOARD CONTROLS. WHEN A BOILER IS INDEXED TO START, ITS ASSOCIATED BOOSTER PUMP SHALL BE STARTED AND FLOW SHALL BE CHECKED AS SENSE BY ITS ASSOCIATED FLOW SWITCH. ONCE FLOW IS SENSED THE BOILER SHALL BE ALLOWED TO START. THE BOILERS SHALL HAVE THE ABILITY TO COMMUNICATE AT A MINIMUM THE FOLLOWING POINTS:

1. BOILERS RUN CONDITION (ON/OFF) FOR EACH BOILER
2. BOILER PUMP COMMAND OUTPUT FOR EACH BOILER
3. EACH BOILER'S SUPPLY HEADER TEMPERATURE

H. A MANUAL EMERGENCY SHUTDOWN SWITCH AT THE EXIT OF THE MECHANICAL ROOM SHALL SHUT DOWN THE BOILERS COMPLETELY. THE BAS SYSTEM SHALL INCORPORATE A CONTACT FROM THESE SWITCHES TO PROVIDE AN ALARM AT THE FRONT END COMPUTER IN THE EVENT OF A MANUAL SHUT DOWN OCCURRING

I. THE FOLLOWING SETPOINTS ARE RECOMMENDED VALUES. ALL SETPOINTS SHALL BE FIELD ADJUSTED DURING THE COMMISSIONING PERIOD TO MEET THE REQUIREMENTS OF ACTUAL FIELD CONDITIONS

J. BOILER LEAD/LAG/STANDBY OPERATION: THE TWO BOILERS SHALL OPERATE IN A LEAD/LAG FASHION

1. THE LEAD BOILER SHALL RUN FIRST
2. ON FAILURE OF THE LEAD BOILER, THE LAG BOILER SHALL RUN AND THE LEAD BOILER SHALL TURN OFF
3. THE LEAD BOILER SHALL MODULATE TO MAINTAIN HOT WATER SUPPLY TEMPERATURE OF 130°F (ADJ.)
4. IF LEAD BOILER REACHES FULL FIRE AND CANNOT MAINTAIN HOT WATER SUPPLY TEMPERATURE, LEAD BOILER SHALL BE ENABLED AND THE TWO BOILERS SHALL MODULATE IN UNISON TO MAINTAIN HOT WATER SUPPLY TEMPERATURE
5. AS HOT WATER TEMPERATURE RISES BACK TO 20°F ABOVE SETPOINT, THE LAG BOILER SHALL STAGE OFF
6. IF EITHER BOILER FAILS, THE STANDBY BOILER SHALL BE PROMOTED TO LAG BOILER AND RUN AS DESCRIBED ABOVE

K. THE DESIGNATED LEAD BOILER SHALL ROTATE UPON ONE OF THE FOLLOWING CONDITIONS (USER SELECTABLE):

1. MANUALLY THROUGH A SOFTWARE SWITCH
2. IF BOILER RUNTIME (ADJ.) IS EXCEEDED
3. DAILY
4. WEEKLY
5. MONTHLY

L. ALARMS SHALL BE PROVIDED AS FOLLOWS:

1. BOILER B-01
   a. FAILURE: COMMANDED ON, BUT THE STATUS IS OFF
   b. RUNNING IN HAND: COMMANDED OFF, BUT THE STATUS IS ON
   c. RUNTIME EXCEEDED: STATUS RUNTIME EXCEEDS A USER DEFINABLE LIMIT
2. BOILER B-02
   a. FAILURE: COMMANDED ON, BUT THE STATUS IS OFF
   b. RUNNING IN HAND: COMMANDED OFF, BUT THE STATUS IS ON
   c. RUNTIME EXCEEDED: STATUS RUNTIME EXCEEDS A USER DEFINABLE LIMIT
3. LEAD BOILER FAILURE: THE LEAD BOILER IS IN FAILURE AND THE STANDBY BOILER IS ON

1 BOILER SYSTEM CONTROLS SEQUENCE

NTS

M. HOT WATER SUPPLY TEMPERATURE SETPOINT RESET: THE HOT WATER SUPPLY TEMPERATURE SETPOINT SHALL RESET BASED ON OUTSIDE AIR TEMPERATURE

1. AS OUTSIDE AIR TEMPERATURE RISES FROM 0°F (ADJ.) TO 70°F (ADJ.) THE HOT WATER SUPPLY TEMPERATURE SETPOINT SHALL RESET DOWNWARDS BY SUBTRACTING FROM 0°F (ADJ.) TO 20°F (ADJ.) FROM THE CURRENT BOILER SETPOINT

N. PRIMARY HOT WATER TEMPERATURE MONITORING: THE FOLLOWING TEMPERATURES SHALL BE MONITORED

1. PRIMARY HOT WATER SUPPLY
2. PRIMARY HOT WATER RETURN

O. ALARMS SHALL BE PROVIDED AS FOLLOWS:

1. HIGH PRIMARY HOT WATER SUPPLY TEMP: IF GREATER THAN 140°F (ADJ.)
2. LOW PRIMARY HOT WATER SUPPLY TEMP: IF LESS THAN 80°F (ADJ.)

P. BOILER B-01 HOT WATER TEMPERATURE MONITORING: THE FOLLOWING TEMPERATURES SHALL BE MONITORED

1. BOILER B-01 HOT WATER SUPPLY
2. BOILER B-01 HOT WATER RETURN

Q. ALARMS SHALL BE PROVIDED AS FOLLOWS:

1. HIGH HOT WATER SUPPLY TEMP: IF GREATER THAN 140°F (ADJ.)
2. LOW HOT WATER SUPPLY TEMP: IF LESS THAN 80°F (ADJ.)

R. BOILER B-02 HOT WATER TEMPERATURE MONITORING: THE FOLLOWING TEMPERATURES SHALL BE MONITORED

1. BOILER B-02 HOT WATER SUPPLY
2. BOILER B-02 HOT WATER RETURN

S. ALARMS SHALL BE PROVIDED AS FOLLOWS:

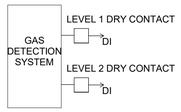
1. HIGH HOT WATER SUPPLY TEMP: IF GREATER THAN 140°F (ADJ.)
2. LOW HOT WATER SUPPLY TEMP: IF LESS THAN 80°F (ADJ.)

T. SECONDARY HYDRONIC SYSTEM VARIABLE PUMP CONTROL SEQUENCE:

1. HOT WATER PUMPS HP-01 & HP-02
   a. THE BAS SHALL START THE PUMP AND IT SHALL RUN CONTINUOUSLY
   b. THE BAS SHALL ALTERNATE PUMP OPERATION TO EQUALIZE RUN TIME
   c. THE BAS SHALL MODULATE THE LEAD AND LAG PUMP SPEED TO MAINTAIN A WATER DIFFERENTIAL SETPOINT OF 15 PSI (ADJ.). THE ASD'S MINIMUM SPEED SHALL NOT DROP BELOW 30% (ADJ.)
   d. THE BAS SHALL STOP THE PUMP WHEN THE OUTSIDE AIR TEMPERATURE IS ABOVE 65°F (ADJ.)

U. ALARMS SHALL BE PROVIDED AS FOLLOWS:

1. DIFFERENTIAL PRESSURE: +/- 5PSI FROM SETPOINT
2. SUPPLY WATER TEMPERATURE: +/- 10°F FROM SETPOINT
3. PUMP HP-01 FAULT
4. PUMP HP-02 FAULT



SYSTEM SUMMARY						
	INPUT		OUTPUT			
	ANALOG	DIGITAL	ANALOG	DIGITAL	ALARM	TREND
DRY CONTACT 1		X			X	
DRY CONTACT 2		X			X	

CARBON MONOXIDE ALARM SYSTEM CONTROL SEQUENCE:

A. GENERAL: UNIT SHALL MONITORED THE HONEYWELL E3 POINT GAS DETECTION SYSTEM AND ALARM WHEN UNIT INTERNAL THRESHOLDS ARE REACHED.

B. ALARM 1: THE CONTROLLER SHALL MONITOR THE DRY CONTACT AND ALARM WHEN LEVEL IS REACHED (25 PPM CO).

C. ALARM 2: THE CONTROLLER SHALL MONITOR THE DRY CONTACT AND ONCE ALARM REACHED H&V UNIT SHALL BE SET TO FULL OA PER SEQUENCE AND ALARM (200 PPM CO).

D. ALARMS SHALL BE PROVIDED AS FOLLOWS:

1. CO LEVEL 1: IF THE UNITS DRY CONTACT 1 IS CLOSED. CO DETECTED LOW.
2. CO LEVEL 2: IF THE UNITS DRY CONTACT 2 IS CLOSED. CO DETECTED HIGH.

2 CARBON MONOXIDE ALARM CONTROL SEQUENCE

NTS

SYSTEM SUMMARY						
	INPUT		OUTPUT			
	ANALOG	DIGITAL	ANALOG	DIGITAL	ALARM	TREND
ZONE TEMPERATURE		X			X	
UNIT ENABLED/DISABLED			X			

DUCTLESS SPLIT SYSYTEM CONTROL SEQUENCE:

A. GENERAL: UNIT SHALL BE ENABLED/DISABLED AND TEMPERATURE MONITORED BY THE BUILDING MANAGEMENT CONTROL SYSTEM (BCS), AND CONTROLLED BY FACTORY PACKAGED CONTROLS TO MAINTAIN SPACE TEMPERATURE SETPOINT COOLING: 75°F (ADJ.) AND HEATING: 70°F (ADJ.)

B. ZONE TEMP: THE CONTROLLER SHALL MONITOR THE SUPPLY AIR TEMPERATURE

C. ALARMS SHALL BE PROVIDED AS FOLLOWS:

1. HIGH ZONE TEMP: IF THE ZONE TEMPERATURE IS GREATER THAN 80°F (ADJ.)
2. LOW ZONE TEMP: IF THE ZONE TEMPERATURE IS LESS THAN 65°F (ADJ.)

3 DUCTLESS SPLIT SYSYTEM CONTROL SEQUENCE

NTS

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RHINEBECK ARCHITECTURE

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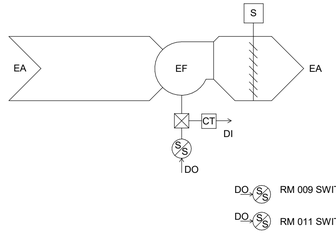


SYSTEM SUMMARY						
	INPUT		OUTPUT			
	ANALOG	DIGITAL	ANALOG	DIGITAL	ALARM	TREND
EXHAUST FAN STATUS		X			X	
EXHAUST FAN START/STOP				X	X	
EXHAUST DAMPER OPEN/CLOSE				X	X	
RM 009 SWITCH		X				X
RM 011 SWITCH		X				X

EXHAUST FAN MEF-1 CONTROLS SEQUENCE:

A. RUN CONDITIONS - USER ENABLED: THE FAN SHALL RUN WHENEVER EITHER SWITCH IS ENABLED.

B. EXHAUST AIR DAMPER:

1. THE DAMPER SHALL OPEN ANYTIME THE UNIT RUNS AND SHALL CLOSE ANYTIME THE UNIT STOPS

2. THE DAMPER SHALL CLOSE 30 SEC. (ADJ.) AFTER THE FAN STOPS

C. ALARMS SHALL BE PROVIDED AS FOLLOWS:

1. DAMPER FAILURE: COMMANDED OPEN, BUT THE STATUS IS CLOSED

2. DAMPER IN HAND: COMMANDED CLOSED, BUT THE STATUS IS OPEN

D. FAN STATUS: THE CONTROLLER SHALL MONITOR THE FAN STATUS. CONTROLLER SHALL REPORT STATUS TO H&V UNIT CONTROL SEQUENCE FOR MODULATION OF OUTDOOR AIR DAMPER.

1. IN ROOM 009 SWITCH IS PRESSED DDC SHALL ALTER HV-2 SEQUENCE.

2. IN ROOM 011 SWITCH IS PRESSED DDC SHALL ALTER HV-1 SEQUENCE.

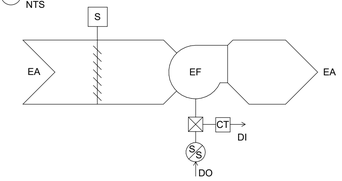
E. ALARMS SHALL BE PROVIDED AS FOLLOWS:

1. FAN FAILURE: COMMANDED ON, BUT THE STATUS IS OFF

2. FAN IN HAND: COMMANDED OFF, BUT THE STATUS IS ON

3 EXHAUST FAN EF-116 & EF-117 CONTROLS SEQUENCE

NTS



SYSTEM SUMMARY						
	INPUT		OUTPUT			
	ANALOG	DIGITAL	ANALOG	DIGITAL	ALARM	TREND
FAN STATUS		X			X	
FAN START/STOP				X	X	

EXHAUST FAN CONTROLS SEQUENCE:

A. RUN CONDITIONS - CONTINUOUS: THE FAN SHALL RUN CONTINUOUSLY

B. FAN: THE FAN SHALL HAVE A USER DEFINABLE MINIMUM RUNTIME (ADJ.)

C. EXHAUST AIR DAMPER:

1. THE DAMPER SHALL OPEN ANYTIME THE UNIT RUNS AND SHALL CLOSE ANYTIME THE UNIT STOPS

2. THE DAMPER SHALL CLOSE 30 SEC. (ADJ.) AFTER THE FAN STOPS

D. ALARMS SHALL BE PROVIDED AS FOLLOWS:

1. DAMPER FAILURE: COMMANDED OPEN, BUT THE STATUS IS CLOSED

2. DAMPER IN HAND: COMMANDED CLOSED, BUT THE STATUS IS OPEN

E. FAN STATUS: THE CONTROLLER SHALL MONITOR THE FAN STATUS

F. ALARMS SHALL BE PROVIDED AS FOLLOWS:

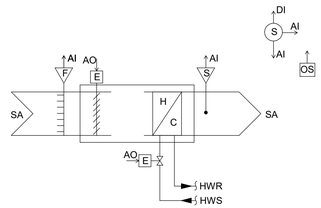
1. FAN FAILURE: COMMANDED ON, BUT THE STATUS IS OFF

2. FAN IN HAND: COMMANDED OFF, BUT THE STATUS IS ON

3. FAN RUNTIME EXCEEDED: FAN STATUS RUNTIME EXCEEDS A USER DEFINABLE LIMIT (ADJ.)

2 EXHAUST FAN CONTROLS SEQUENCE

NTS



SYSTEM SUMMARY						
	INPUT		OUTPUT			
	ANALOG	DIGITAL	ANALOG	DIGITAL	ALARM	TREND
AIRFLOW	X				X	
SPACE TEMPERATURE	X				X	
DISCHARGE AIR TEMPERATURE	X				X	
ZONE SETPOINT ADJUST	X					
ZONE UNOCCUPIED OVERRIDE		X				
REHEAT VALVE			X			
ZONE DAMPER			X			

CONTROL SEQUENCE FOR VAV TERMINAL UNIT:

A. RUN CONDITIONS:

1. OCCUPIED MODE: THE UNIT SHALL MAINTAIN A 74°F (ADJ.) COOLING SETPOINT AND A 70°F (ADJ.) HEATING SETPOINT

2. UNOCCUPIED MODE (NIGHT SETBACK): THE UNIT SHALL MAINTAIN AN 85°F (ADJ.) COOLING SETPOINT AND A 55°F (ADJ.) HEATING SETPOINT

B. ALARMS SHALL BE PROVIDED AS FOLLOWS:

1. HIGH ZONE TEMP: IF THE ZONE TEMPERATURE IS GREATER THAN THE COOLING SETPOINT BY A USER DEFINABLE AMOUNT (ADJ.)

2. LOW ZONE TEMP: IF THE ZONE TEMPERATURE IS LESS THAN THE HEATING SETPOINT BY A USER DEFINABLE AMOUNT (ADJ.)

C. ZONE SETPOINT ADJUST: THE OCCUPANT SHALL BE ABLE TO ADJUST THE ZONE TEMPERATURE HEATING AND COOLING SETPOINTS AT THE ZONE SENSOR

D. ZONE UNOCCUPIED OVERRIDE: THE SPACE SENSOR SHALL BE FURNISHED WITH AN OCCUPIED/UNOCCUPIED OVERRIDE FEATURE. IF THE OVERRIDE IS ACTIVATED THE AIR HANDLING SYSTEM SHALL BE PLACED INTO OCCUPIED MODE FOR SPECIFIED TIME DURATION OF FOUR (4) HOURS (ADJ.)

E. REVERSING VARIABLE VOLUME TERMINAL UNIT - FLOW CONTROL:

1. OCCUPIED:

a. WHEN ZONE TEMPERATURE IS GREATER THAN ITS COOLING SETPOINT, THE ZONE DAMPER SHALL MODULATE BETWEEN THE MINIMUM OCCUPIED AIRFLOW (ADJ.) AND THE MAXIMUM COOLING AIRFLOW (ADJ.) UNTIL THE ZONE IS SATISFIED

b. WHEN THE ZONE TEMPERATURE IS BETWEEN THE COOLING SETPOINT AND THE HEATING SETPOINT, THE ZONE DAMPER SHALL MAINTAIN THE MINIMUM REQUIRED ZONE VENTILATION (ADJ.)

c. WHEN ZONE TEMPERATURE IS LESS THAN ITS HEATING SETPOINT, THE CONTROLLER SHALL ENABLE HEATING TO MAINTAIN THE ZONE TEMPERATURE AT ITS HEATING SETPOINT. ADDITIONALLY, IF WARM AIR IS AVAILABLE FROM THE RTU, THE ZONE DAMPER SHALL MODULATE BETWEEN THE MINIMUM OCCUPIED AIRFLOW (ADJ.) UNTIL THE ZONE IS SATISFIED

2. UNOCCUPIED:

a. WHEN THE ZONE IS UNOCCUPIED THE ZONE DAMPER SHALL CONTROL TO ITS MINIMUM UNOCCUPIED AIRFLOW (ADJ.)

b. WHEN THE ZONE TEMPERATURE IS GREATER THAN ITS COOLING SETPOINT, THE ZONE DAMPER SHALL MODULATE BETWEEN THE MINIMUM UNOCCUPIED AIRFLOW (ADJ.) AND THE MAXIMUM COOLING AIRFLOW (ADJ.) UNTIL THE ZONE IS SATISFIED

c. WHEN ZONE TEMPERATURE IS LESS THAN ITS UNOCCUPIED HEATING SETPOINT, THE CONTROLLER SHALL ENABLE HEATING TO MAINTAIN THE ZONE TEMPERATURE AT THE SETPOINT. ADDITIONALLY, IF WARM AIR IS AVAILABLE FROM THE RTU, THE ZONE DAMPER SHALL MODULATE BETWEEN THE MINIMUM UNOCCUPIED AIRFLOW (ADJ.) AND THE MAXIMUM HEATING AIRFLOW (ADJ.) UNTIL THE ZONE IS SATISFIED

F. REHEATING COIL VALVE: THE CONTROLLER SHALL MEASURE THE ZONE TEMPERATURE AND MODULATE THE REHEATING COIL VALVE OPEN ON DROPPING TEMPERATURE TO MAINTAIN ITS HEATING SETPOINT

G. DISCHARGE AIR TEMPERATURE: THE CONTROLLER SHALL MONITOR THE DISCHARGE AIR TEMPERATURE

H. ALARMS SHALL BE PROVIDED AS FOLLOWS:

1. HIGH DISCHARGE AIR TEMP: IF THE DISCHARGE AIR TEMPERATURE IS GREATER THAN 120°F (ADJ.)

2. LOW DISCHARGE AIR TEMP: IF THE DISCHARGE AIR TEMPERATURE IS LESS THAN 40°F (ADJ.)

1 VAV CONTROL SEQUENCE

NTS

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AIR HANDLING UNIT CONTROLS SEQUENCE:

A. RUN CONDITIONS - CONTINUOUS: THE UNIT SHALL RUN CONTINUOUSLY

B. RETURN AIR SMOKE DETECTION: THE UNIT SHALL SHUT DOWN AND GENERATE AN ALARM UPON RECEIVING A RETURN AIR SMOKE DETECTOR STATUS

C. FREEZE PROTECTION: THE UNIT SHALL SHUT DOWN AND GENERATE AN ALARM UPON RECEIVING A FREEZESTAT STATUS

D. AHU OPTIMAL START: THE UNIT SHALL START PRIOR TO SCHEDULED OCCUPANCY BASED ON THE TIME NECESSARY FOR THE ZONES TO REACH THEIR OCCUPIED SETPOINTS. THE START TIME SHALL AUTOMATICALLY ADJUST BASED ON CHANGES IN OUTSIDE AIR TEMPERATURE AND ZONE TEMPERATURES

E. SUPPLY FAN: THE SUPPLY FAN SHALL RUN ANYTIME THE UNIT IS COMMANDED TO RUN, UNLESS SHUT DOWN ON SAFETIES. TO PREVENT SHORT CYCLING, THE SUPPLY FAN SHALL HAVE A USER DEFINABLE (ADJ.) MINIMUM RUNTIME

F. ALARMS SHALL BE PROVIDED AS FOLLOWS:

1. SUPPLY FAN FAILURE: COMMANDED ON, BUT THE STATUS IS OFF
2. SUPPLY FAN IN HAND: COMMANDED OFF, BUT THE STATUS IS ON
3. SUPPLY FAN RUNTIME EXCEEDED: STATUS RUNTIME EXCEEDS A USER DEFINABLE LIMIT (ADJ.)

G. SUPPLY AIR AIRFLOW CONTROL: THE CONTROLLER SHALL MEASURE SUPPLY AIRFLOW AND SHALL MODULATE THE SUPPLY FAN VFD SPEED TO MAINTAIN THE SCHEDULED SUPPLY AIRFLOW (ADJ.) THE SUPPLY FAN VFD SPEED SHALL NOT DROP BELOW 30% (ADJ.)

H. ALARMS SHALL BE PROVIDED AS FOLLOWS:

1. HIGH SUPPLY AIRFLOW: IF THE SUPPLY AIRFLOW IS 25% (ADJ.) GREATER THAN SETPOINT
2. LOW SUPPLY AIRFLOW: IF THE SUPPLY AIRFLOW IS 25% (ADJ.) LESS THAN SETPOINT
3. SUPPLY FAN VFD FAULT

I. EXHAUST FAN: THE EXHAUST FAN SHAL RUN WHENEVER THE SUPPLY FAN RUNS

J. ALARMS SHALL BE PROVIDED AS FOLLOWS:

1. EXHAUST FAN FAILURE: COMMANDED ON, BUT THE STATUS IS OFF
2. EXHAUST FAN IN HAND: COMMANDED OFF, BUT THE STATUS IS ON
3. EXHAUST FAN RUNTIME EXCEEDED: STATUS RUNTIME EXCEEDS A USER DEFINABLE LIMIT (ADJ.)
4. EXHAUST FAN VFD FAULT

K. EXHAUST AIRFLOW: THE EXHAUST FAN VFD SHALL MODULATE TO MAINTAIN EXHAUST AIRFLOW SETPOINT. EXHAUST AIRFLOW SETPOINT SHALL BE 100% (ADJ.) OF THE OUTDOOR AIRFLOW MINUS AREA GENERAL EXHAUST (ADJ.). THE EXHAUST FAN VFD SPEED SHALL NOT DROP BELOW 12% (ADJ.)

L. ALARMS SHALL BE PROVIDED AS FOLLOWS:

1. HIGH EXHAUST AIRFLOW: IF THE EXHAUST AIRFLOW IS AN ADJUSTABLE PERCENTAGE GREATER THAN SETPOINT
2. LOW EXHAUST AIRFLOW: IF THE EXHAUST AIRFLOW IS AN ADJUSTABLE PERCENTAGE LESS THAN SETPOINT

M. SUPPLY AIR TEMPERATURE SETPOINT - OPTIMIZED: THE CONTROLLER SHALL MONITOR THE SUPPLY AIR TEMPERATURE AND SHALL MAINTAIN A SUPPLY AIR TEMPERATURE SETPOINT RESET BASED ON ZONE COOLING AND HEATING REQUIREMENTS

1. THE SUPPLY AIR TEMPERATURE SETPOINT SHALL BE RESET FOR COOLING BASED ON ZONE COOLING REQUIREMENTS AS FOLLWS:
   a. THE INITIAL SUPPLY AIR TEMPERATURE SETPOINT SHALL BE 50°F (ADJ.)
   b. AS COOLING DEMAND INCREASES, THE SETPOINT SHALL INCREMENTALLY RESET DOWN TO A MINIMUM OF 48°F (ADJ.)
   c. AS COOLING DEMAND DECREASES, THE SETPOINT SHALL INCREMENTALLY RESET UP TO A MAXIMUM OF 55°F (ADJ.)
2. IF MORE ZONES NEED HEATING THAN COOLING, THEN THE SUPPLY AIR TEMPERATURE SETPOINT SHALL BE RESET FOR HEATING AS FOLLOWS:
   a. THE INITIAL SUPPLY AIR TEMPERATURE SETPOINT SHALL BE 72°F (ADJ.)
   b. AS HEATING DEMAND INCREASES, THE SETPOINT SHALL INCREMENTALY RESET UP TO A MAXIMUM OF 82°F (ADJ.)
   c. AS HEATING DEMAND DECREASES, THE SETPOINT SHALL INCREMENTALLY RESET DOWN TO A MINIMUM OF 62°F (ADJ.)

N. COOLING STAGES: THE CONTROLLER SHALL MODULATE THE DIGITAL STROLL COMPRESSOR TO MEET DISCHARGE AIR TEMPERATURE SETPOINT. THE COOLING SHALL BE ENABLED WHENEVER:

1. OUTSIDE AIR TEMPERATURE IS GREATER THAN 50°F (ADJ.)
2. THE ECONOMIZER IS DISABLED OR FULLY OPEN
3. THE SUPPLY FAN STATUS IS ON
4. THE HEATING IS NOT ACTIVE

O. ALARMS HSALL BE PROVIDEDC AS FOLLOWS:

1. HIGH SUPPLY AIR TEMP: IF THE SUPPLY AIR TEMPERATURE IS 5°F (ADJ.) GREATER THAN SETPOINT

P. HEATING STAGES: THE CONTROLLER SHALL MEASURE THE ZONE TEMPERATURE AND STAGE THE HEATING TO MAINTAIN ITS HEATING SETPOINT. TO PREVENT SHORT CYCLING, THERE SHALL BE A USER DEFINABLE (ADJ.) DELAY BETWEEN STAGES, AND EACH STAGE SHALL HAVE A USER DEFINABLE (ADJ.) MINIMUM RUNTIME. THE HEATING SHALL BE ENABLED WHENEVER:

1. OUTSIDE AIR TEMPERATURE IS LESS THAN 65°F (ADJ.)
2. THE ZONE TEMPERATURE IS BELOW HEATING SETPOINT
3. THE SUPPLY FAN STATUS IS ON
4. THE COOLING IS NOT ACTIVE

Q. ECONOMIZER: THE CONTROLLER SHALL MEASURE THE MIXED AIR TEMPERATURE AND MODULATE THE ECONOMIZER DAMPERS IN SEQUENCE TO MAINTAIN A SETPOINT 2°F (ADJ.) LESS THAN THE SUPPLY AIR TMEPERATRURE SETPOINT. THE OUTSIDE AIR DAMPERS SHALL MAINTAIN A MINIMUM ADJUSTABLE POSITION OF 30% (ADJ.) OPEN WHENEVER OCCUPIED. VERIFY VIA BALANCER THAT OPENING PERCENT PROVIDES SCHEDULED OUTDOOR AIR. ADJUST AS REQUIRED.

1. THE ECONOMIZER SHALL BE ENABLED WHENEVER:
   a. OUTSIDE AIR TEMPERATUER IS LESS THAN 65°F (ADJ.)
   b. THE OUTSIDE AIR ENTHALPY IS LESS THAN 22 BTU/LB (ADJ.)
   c. THE OUTSIDE AIR TEMPERATURE IS LESS THAN THE RETURN AIR TEMPERATURE
   d. THE OUTSIDE AIR ENTHALPY IS LESS THAN THE RETURN AIR ENTHALPY
   e. THE SUPPLY FAN STATUS IS ON
2. THE ECONOMIZER SHALL CLOSE WHENEVER:
   a. MIXED AIR TEMPERATUER DROPS FROM 40°F (ADJ.) TO 35°F (ADJ.)
   b. OR THE FREEZESTAT (IF PRESENT) IS ON\
   c. OR ON LOSS OF SUPPLY FAN STATUS
3. THE OUTSIDE AND EXHAUST AIR DAMPERS SHALL CLOSE AND THE RETURN AIR DAMPER SHAL OPEN WHEN THE UNIT IS OFF. IF OPTIMAL START-UP IS AVAILABLE THE MIXED AIR DAMPER SHALL OPERATE AS DESCRIBED IN THE OCCUPIED MODE EXCEPT THAT THE OUTSIDE AIR DAMPER SHALL MODULATE TO FULLY CLOSED

R. OUTSIDE AIR VENTILATION - FIXED PERCENTAGE: THE OUTSIDE AIR DAMPERS SHALL MAINTAIN A MINIMUM ADJUSTABLE POSITION DURING BUILDING OCCUPIED HOURS AND BE CLOSED DURING UNOCCUPIED HOURS

1. ALARMS SHALL BE PROVIDED AS FOLLOWS:
   a. HIGH SUPPLY AIR HUMIDITY: IF THE AIR HUMIDITY IS GREATER THAN 90% RH (ADJ.)
   b. LOW SUPPLY AIR HUMIDITY: IF THE SUPPLY AIR HUMIDITY IS LESS THAN 30% RH (ADJ.)

S. PREFILTER DIFFERNTIAL PRESSURE MONITOR: THE CONTROLLER SHALL MONITOR THE DIFFERENTIAL PRESSURE ACROSS THE PREFILTER

1. ALARMS SHALL BE PROVIDED AS FOLLOWS:
   a. PREFILTER CHANGE REQUIRED: PREFILTER DIFFERENTIAL PRESSURE EXCEEDS A USER DEFINABLE LIMIT (ADJ.)

T. FINAL FILTER DIFFERENTIAL PRESSURE MONITOR: THE CONTROLLER SHALL MONITOR THE DIFFERENTIAL PRESSURE ACROSS THE FINAL FILTER

1. ALARMS SHALL BE PROVIDED AS FOLLOWS:
   a. FINAL FILTER CHANGE REQUIRED: FINAL FILTER DIFFERENTIAL PRESSURE EXCEEDS A USER DEFINABLE LIMIT (ADJ.)

U. MIXED AIR TEMEPERATURE: THE CONTROLLER SHALL MONITOR THE MIXED AIR TEMERATURE AND USE AS REQUIRED FOR ECONOMIZER CONTROL (IF PRESENT) OR PREHEATING CONTROL (IF PRESENT)

1. ALARMS SHALL BE PROVIDED AS FOLLOWS:
   a. HIGH MIXED AIR TEMP: IF THE MIXED AIR TEMPERATURE IS GREATER THAN 90°F (ADJ.)
   b. LOW MIXED AIR TEMP: IF THE MIXED AIR TEMPERATURE IS LESS THAN 45°F (ADJ.)

V. RETURN AIR HUMIDITY: THE CONTROLLER SHALL MONITOR THE RETURN AIR HUMIDITY AND USE A REQUIRED FOR ECONOMIZER CONTROL (IF PRESENT) OR HUMIDITY CONTROL (IF PRESENT)

1. ALARMS SHALL BE PROVIDED AS FOLLOWS:
   a. HIGH RETURN AIR HUMIDITY: IF THE RETURN AIR HUMIDITY IS GREATER THAN 70% (ADJ.)
   b. LOW RETURN AIR HUMIDITY: IF THE RETURN AIR HUMIDITY IS LESS THAN 35% (ADJ.)

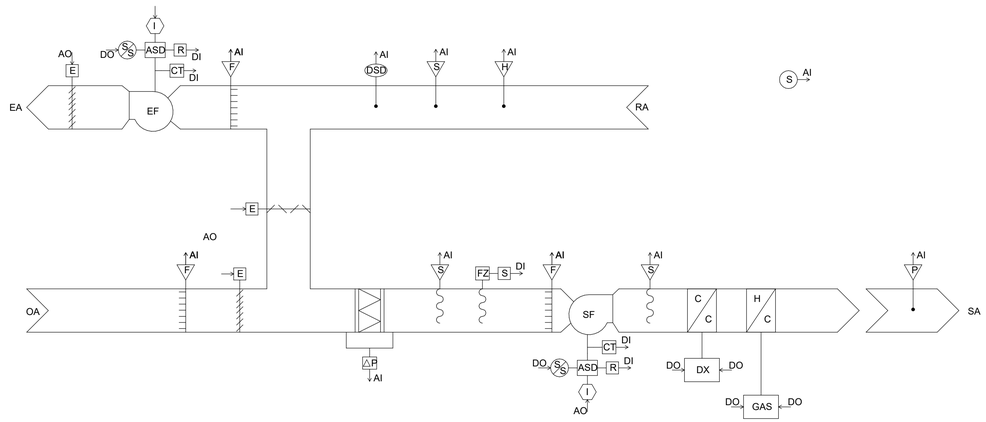
W. RETURN AIR TEMPERATURE: THE CONTROLLER SHALL MONITOR THE RETURN AIR TEMPERATURE AND USE AS REQUIRED FOR SETPOINT CONTROL OR ECONOMIZER CONTRL (IF PRESENT)

1. ALARMS SHALL BE PROVIDED AS FOLLOWS:
   a. HIGH RETURN AIR TEMP: IF THE RETURN AIR TEMPERATURE IS GREATER THAN 90°F (ADJ.)
   b. LOW RETURN AIR TEMP: IF THE RETURN AIR TEMPERATURE IS LESS THAN 45°F (ADJ.)

X. SUPPLY AIR TEMPERATURE: THE CONTROLLER SHALL MONITOR THE SUPPLY AIR TEMPERATURE

1. ALARMS SHALL BE PROVIDED AS FOLLOWS:
   a. HIGH SUPPLY AIR TEMP: IF THE SUPPLY AIR TEMPERTURE IS GREATER THAN 120°F (ADJ.)
   b. LOW SUPPLY AIR TEMP: IF THE SUPPLY AIR TEMPERATURE IS LESS THAN 45°F (ADJ.)

SYSTEM SUMMARY	INPUT		OUTPUT			
	ANALOG	DIGITAL	ANALOG	DIGITAL	ALARM	TREND
OUTDOOR AIRFLOW	X					
SUPPLY AIRFLOW	X				X	
EXHAUST AIRFLOW	X				X	
PREFILTER DIFFERENTIALPRESSURE	X					
FINAL FILTER DIFFERENTIAL PRESSURE	X					
MIXED AIR TEMPERATURE	X				X	
RETURN AIR TEMPERATURE	X				X	
RETURN AIR HUMIDITY	X					
SUPPLY AIR TEMPERATURE	X					
SPACE TEMPERATURE	X					
SUPPLY FAN STATUS		X			X	
SUPPLY FAN VFD FAULT		X			X	
EXHAUST FAN STATUS		X			X	
EXHAUST FAN VFD FAULT		X			X	
CONDENSING UNIT ALARM		X			X	
RETURN AIR SMOKE DETECTOR		X				
SUPPLY FAN ASD SPEED			X			
EXHAUST FAN ASD SPEED			X			
MIXED AIR DAMPERS			X			
CONDENSING UNIT MODULATION			X			
CONDENSING UNIT ENABLE/DISABLE				X		
COOLING STAGE 1				X		
COOLING STAGE 2				X		
HEATING STAGE 1				X		
HEATING STAGE 2				X		
SUPPLY FAN START/STOP				X		
EXHAUST FAN START/STOP				X		



1 AIR HANDLING UNIT CONTROLS SEQUENCE
NTS

Project:

VILLAGE OF ARDSLEY, NY

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CONTROLS

Sheet Number:

M802

GENERAL NOTES

(APPLY TO ALL DRAWINGS)

A. PROVIDE ALL LABOR, MATERIALS, EQUIPMENT AND SERVICES TO PERFORM ALL OPERATIONS REQUIRED FOR THE COMPLETE INSTALLATION AND RELATED WORK AS SHOWN ON THE DRAWINGS AND AS SPECIFIED HEREIN. ELECTRIC EQUIPMENT SHALL BE INSTALLED IN A NEAT AND WORKMANLIKE MANNER.

B. PROVIDE ALL ELECTRICAL EQUIPMENT CONNECTIONS.

C. PROVIDE ALL REQUIRED SUPPORTS AND ACCESSORIES.

D. PROVIDE ALL WORK IN COMPLIANCE WITH THE NATIONAL ELECTRICAL CODE (NEC) AND THE LATEST EDITION OF THE:
   1. BUILDING CODE OF NEW YORK STATE
   2. ENERGY CONSERVATION CONSTRUCTION CODE OF NEW YORK STATE
   3. OSHA REQUIREMENTS
   4. LOCAL MUNICIPAL ORDINANCES AND CODES
   5. AUTHORITY HAVING JURISDICTION (AHJ)
   6. SERVING UTILITY COMPANIES

E. PROVIDE ELECTRICAL INSPECTION CERTIFICATE FROM INSPECTION AGENCY RECOGNIZED AS ACCEPTABLE FROM THE AHJ.

F. ALL RECEPTACLES INDICATED AS GFI TYPE MUST BE A GFI RECEPTACLE. CONNECTING NORMAL RECEPTACLES DOWNSTREAM OF ONE GFI RECEPTACLE IS NOT ACCEPTABLE PROVIDE TEMPORARY ELECTRICAL SERVICE IN SIZES TO ACCOMMODATE CONSTRUCTION WHERE REQUIRED.

G. REPAIR OR REPLACE ALL DEFECTS IN MATERIAL OR WORKMANSHIP WITHIN ONE YEAR OF CONSTRUCTION CLOSE OUT DATE AT NO ADDITIONAL COST TO THE OWNER.

H. PERFORM ALL OPERATIONS REQUIRED FOR A COMPLETE SYSTEM TEST. PRIOR TO CLOSE OUT DATE SUBMIT ALL SATISFACTORY SYSTEM TEST RESULTS FOR RECORD.

I. SUBMITTALS:
   1. ALL ITEMS OF EQUIPMENT AND MATERIALS PROVIDED SHALL BE SUBMITTED FOR ENGINEERING REVIEW.
   2. SUBMIT A MINIMUM OF THREE COPIES OF SHOP DRAWINGS/PRODUCT DATA INFORMATION.

J. CONTRACTOR IS HERE BY CAUTIONED THAT ELECTRIC POWER CHARACTERISTICS (VOLTAGE, PHASE, HORSEPOWER, AMPERAGE, ETC.) OF EQUIPMENT IS BASED ON AVAILABLE INFORMATION AT THE TIME OF PROJECT DESIGN. CONTRACTOR MUST VERIFY CHARACTERISTICS FOR EACH PIECE OF NEW EQUIPMENT PRIOR TO ORDERING ELECTRICAL EQUIPMENT. INDICATE VERIFICATION ON SUBMITTALS.

K. LOCATIONS INDICATED FOR LIGHTING FIXTURES ARE APPROXIMATE. LOCATE FIXTURES AS REQUIRED TO AVOID INTERFERENCE WITH BUILDING STEEL, PIPING, DUCTWORK, CONDUIT, DIFFUSERS, GRILLES, SPEAKERS, SMOKE DETECTORS, ETC. FIELD COORDINATE EXACT LOCATIONS AS NEAR AS POSSIBLE TO THE LOCATION INDICATED. VERIFY COMPLIANCE WITH NEC ARTICLE 410.16 FOR INSTALLATION OF LIGHT FIXTURES IN CLOTHES CLOSETS, PRIOR TO ROUGH-IN. REFER TO ARCHITECTURAL REFLECTED CEILING PLANS.

L. EXACT LOCATIONS OF CEILING MOUNTED SMOKE DETECTORS, EXIT SIGNS, ETC. SHALL BE COORDINATED WITH OTHER CEILING MOUNTED EQUIPMENT TO AVOID CONFLICT. LOCATE DEVICES AS NEAR AS POSSIBLE TO THE LOCATION INDICATED. FIRE ALARM SMOKE AND HEAT DETECTORS SHALL BE LOCATED 3'-0 MINIMUM FROM HVAC DIFFUSERS, REGISTERS, GRILLES, ETC. SMOKE DETECTORS AT SMOKE DOORS MUST BE INSTALLED WITHIN 5'-0 OF THE DOORS (REFER TO NFPA 72).

M. ALL NEW CIRCUITING SHALL BE CONCEALED (EXCEPT IN UNFINISHED SPACES). PROVIDE ALL CUTTING AND PATCHING AS REQUIRED.

N. CONTRACTOR SHALL REVIEW ALL TRADES' CONTRACT DOCUMENTS TO DETERMINE SPECIFIC MOUNTING LOCATIONS FOR ELECTRICAL EQUIPMENT. COORDINATE EXACT MOUNTING LOCATIONS WITH THE ARCHITECT AND OTHER CONTRACTORS. REFER TO ARCHITECTURAL PLANS FOR CASEWORK LAYOUT, ELEVATIONS, ETC. COORDINATE WITH LOCATIONS OF ELECTRICAL DEVICES AND OUTLETS

O. EXACT LOCATION OF MECHANICAL AND PLUMBING EQUIPMENT THAT REQUIRE ELECTRICAL CONNECTIONS ARE SHOWN ON THE MECHANICAL AND PLUMBING DRAWINGS.

P. PROVIDE CONDUIT/WIRING (CIRCUITING) AND REQUIRED CONNECTIONS TO ALL DEVICES/ EQUIPMENT. CONNECT TO CIRCUIT(S) AS INDICATED.

Q. COORDINATE ALL WORK WITH OTHER TRADES; REFER TO ARCHITECTURAL DRAWINGS FOR COORDINATING LOCATIONS.

R. RE-INSTALL REMOVED SYSTEM DEVICES REMOVED AS A RESULT IN WALL, PARTITION OR CEILING REPLACEMENT WORK. PROVIDE POWER AND COMMUNICATION WALL AND PARTITION MOUNTED DEVICES AND RECONNECT TO EXISTING SYSTEMS. CLEAN EXISTING CEILING MOUNTED DEVICES. EXTEND EXISTING SYSTEM CIRCUITS AS REQUIRED FOR REINSTALLATION. COORDINATE WITH EXISTING SYSTEM MANUFACTURER.

S. SLEEVE AND SEAL ALL WALL AND FLOOR PENETRATIONS. PROVIDE APPROPRIATE FIRE STOPPING FOR ALL PENETRATIONS.

T. SHARED NEUTRAL SHALL NOT BE ALLOWED ON ANY BRANCH CIRCUITS. MAINTAIN SERVICE CLEARANCES OF ALL EQUIPMENT. ADVISE OTHER TRADES OF SERVICE CLEARANCES AND ENSURE NO SERVICES OR TRADES RUN THROUGH SERVICE AREA.

U. ALL WIRING INDICATED ON PLANS IS TO BE COPPER WIRING UNLESS OTHERWISE NOTED.

V. REFER TO ONE-LINE DIAGRAM. RATINGS TO MATCH THE RATING OF THE WALL/CEILING. UTILIZE FIRE RATED PUDDY PADS IN THESE LOCATIONS.

W. REFER TO ARCHITECTURAL DRAWINGS FOR MOUNTING OF RECEPTACLES IN AND NEAR ALL MILLWORK AND CABINETRY.

X. THE CONTRACTOR MUST FOLLOW FEDERAL AND STATE ELECTRICAL SAFETY PRACTICE INCLUDING LOCK OUT TAG OUT (LOTO). THE CONTRACTOR MUST AFFIX THEIR COMPANY'S INDIVIDUAL LOTO LOCKS AND TAGS TO CONTROL HAZARDOUS ENERGIES AND TO PREVENT INJURIES

COORDINATION NOTES

(APPLY TO ALL DRAWINGS)

A. VERTICAL CLEARANCES BY SPACE:
   a. VEHICLE STORAGE 19'-8"
   b. MAINTENANCE 23'-0"
   c. WASH BAY 23'-0"
   d. MEZZANINE 7'-6"
   e. SHOPS 19'-0"
   f. CANOPY 21'-8"

ABBREVIATIONS

ABBREV.	DESCRIPTION
A	AMPERE
AIC	AMPERE INTERRUPTING CURRENT
AFF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
AL	ALUMINUM
ASD	ADJUSTABLE SPEED DRIVE
ATS	AUTOMATIC TRANSFER SWITCH
AUTO	AUTOMATIC
AV	AUDIOVISUAL
AWG	AMERICAN WIRE GAUGE
C	CONDUIT
CB	CIRCUIT BREAKER
CLG	CEILING
CM	CONSTRUCTION MANAGER
CU	COPPER
DN	DOWN
EA	EACH
EC	ELECTRICAL CONTRACTOR
EG	EQUIPMENT GROUND
ELEC	ELECTRIC
EM	EMERGENCY
EMT	ELECTRICAL METALLIC TUBING
FA	FIRE ALARM
FACP	FIRE ALARM CONTROL PANEL
GC	GENERAL CONTRACTOR
GEN	GENERATOR
GFI	GROUND FAULT CIRCUIT INTERRUPTER
G/GND	GROUND
HH	HAND HOLE
HOA	HAND-OFF-AUTO
HP	HORSEPOWER
HVAC	HEATING, VENTILATING AND AIR CONDITIONING
JB	JUNCTION BOX
KV	KILOVOLT
KVA	KILOVOLT AMPERE
KW	KILOWATT
KWH	KILOWATT HOUR
LED	LIGHT EMITTING DIODE
LTG	LIGHTING
MC	METAL CLAD CABLE
MCB	MAIN CIRCUIT BREAKER
MH	MAN HOLE
MLO	MAIN LUG ONLY
NA	NOT APPLICABLE
NEC	NATIONAL ELECTRICAL CODE
NIC	NOT IN CONTRACT
NL	NIGHT LIGHT
NM	NON-METALLIC SHEATHED CABLE
NMT	NON-METALLIC TUBING
NTS	NOT TO SCALE
OH	OVERHEAD
PH	PHASE
PC	PLUMBING CONTRACTOR OR PHOTO CELL
P	POLE
RMC	RIGID METAL CONDUIT
SP	SPACE
SPD	SURGE PROTECTIVE DEVICE
SPEC	SPECIFICATION
STP	SHIELDED TWISTED PAIR
SW	SWITCH
SWBD	SWITCHBOARD
TV	TELEVISION
TYP	TYPICAL
UC	MOUNTED UNDER COUNTER HEIGHT OR UNDERGROUND COMMUNICATION
UE	UNDERGROUND ELECTRICAL
UG	UNDERGROUND
UL	UNDERWRITER'S LABORATORY
V	VOLT
W	WIRE OR WATT
WP	WEATHERPROOF
XP	EXPLOSION PROOF

POWER DISTRIBUTION AND CONTROL

SYMBOL	DESCRIPTION
T-XX	TRANSFORMER, REFER TO ONE LINE DIAGRAM AND TRANSFORMER SCHEDULE FOR SIZE AND TYPE
PP-XX	208/120 VOLT RECESSED PANELBOARD
PP-XX	208/120 VOLT PANELBOARD
PP-XX	480/277 VOLT RECESSED PANELBOARD
PP-XX	480/277 VOLT PANELBOARD
	DISTRIBUTION PANELBOARD.
	MOTOR STARTER. REFER TO ELECTRIC EQUIPMENT AND CONTROL SCHEDULE FOR SIZE AND TYPE.
	DISCONNECT SWITCH AMP RATING AS INDICATED
	FUSED DISCONNECT SWITCH AMP RATING AS INDICATED
	COMBINATION DISCONNECT SWITCH AND MAGNETIC STARTER REFER TO ELECTRIC EQUIPMENT AND CONTROL SCHEDULE
ASD	ADJUSTABLE SPEED DRIVE
M	ELECTRICAL CONNECTION. REFER TO ELECTRIC EQUIPMENT AND CONTROL SCHEDULE FOR DESCRIPTION. LETTERS AND NUMBERS REFER TO "ITEM DESIGNATION" ON THE SCHEDULE.
ACCU-*	ELECTRICAL CONNECTION. REFER TO ELECTRIC EQUIPMENT AND CONTROL SCHEDULE FOR DESCRIPTION. LETTERS AND NUMBERS REFER TO "ITEM DESIGNATION" ON THE SCHEDULE.
	SINGLE POINT CONNECTION TO EQUIPMENT
S_M	MANUAL MOTOR STARTER
SPD	SURGE PROTECTIVE DEVICE
X	EQUIPMENT CONNECTION, REFER TO EQUIPMENT SCHEDULE FOR WIRING REQUIREMENTS NUMBER INDICATES ITEM ON SCHEDULE.

BASIC MATERIALS AND METHODS

SYMBOL	DESCRIPTION
TV S	GANGED DEVICES
	TWO PIECE PREWIRED SURFACE RACEWAY
	DIVIDABLE SURFACE RACEWAY WITH DEVICES AS INDICATED.
	SPECIAL PURPOSE RECEPTACLE. PROVIDE PROPER VOLTAGE, CLASS, CURRENT RATING AND NEMA CONFIGURATION AS REQUIRED BY BRANCH CIRCUIT AND/OR MATCH CAP ON EQUIPMENT BEING FURNISHED BY OTHERS. PROVIDE CORD AND CAP. SUBSCRIPT INDICATES TYPE: # - NEMA TYPE D - DRYER RECEPTACLE R - RANGE RECEPTACLE T - TWISTLOCK X - MATCH EQUIPMENT CAP
J	JUNCTION BOX
	PUSH BUTTON
E_B	EMERGENCY SHUTDOWN PUSH BUTTON, SUBSCRIPT INDICATE TYPE: B - BOILER G - GENERATOR P - POWER
	DUPLEX RECEPTACLE, SUBSCRIPTS INDICATE TYPE: G - GROUND FAULT CIRCUIT INTERRUPTER AC - ABOVE COUNTER WP - WEATHERPROOF
	DUPLEX RECEPTACLE, CEILING MOUNTED
	TWO DUPLEX RECEPTACLE, SINGLE COVER
TC	TIME CLOCK
HD	ELECTRIC HAND DRYER
HH	UNDERGROUND HANDHOLE
X	REFERENCE TO DRAWING NOTE
	EXISTING WIRING OR EQUIPMENT, SOLID LIGHT LINE WEIGHT IS EXISTING.
	HEAVY SOLID LINE WEIGHT IS NEW

ONE LINE DIAGRAM

SYMBOL	DESCRIPTION
	NON-FUSED DISCONNECT SWITCH
	THERMAL MAGNETIC MOLDED CASE CIRCUIT BREAKER
IST LSIG #AT #AF	CIRCUIT BREAKER SOLID STATE TRIP CHARACTERISTICS INDICATED BY SUBSCRIPTS: AT - TRIP COIL AMPERE RATING AF - FRAME SIZE AMPERE RATING L - LONG TIME TRIP S - SHORT TIME TRIP I - INSTANTANEOUS TRIP G - GROUND FAULT TRIP
	CURRENT TRANSFORMER
M	UTILITY METER
PM	POWER METER
GRAP	GENERATOR REMOTE ANNUNCIATION PANEL
	TRANSFORMER, REFER TO SCHEDULE OR ONE-LINE
G	GENERATOR SET
	TRANSFER SWITCH, RATING AS INDICATED. ATS = AUTOMATIC
	GROUND CONNECTION
NAME	PANELBOARD

LIGHTING CONTROL

SYMBOL	DESCRIPTION
$S^3_{a,b}$	TOGGLE SWITCH, VOLTAGE AS INDICATED ON FIXTURE SCHEDULE, SUBSCRIPTS INDICATE TYPE: 3 - THREE WAY SWITCH 4 - FOUR WAY SWITCH LV - LOW VOLTAGE WP - WEATHER PROOF EP - EXPLOSION PROOF OS - OCCUPANCY SENSOR VS - VACANCY SENSOR a,b,c - SWITCHING DESIGNATIONS NUMBER OF LETTERS EQUALS NO. OF GANGED SWITCHES
$D^3_{a,b,c}$	DIMMER SWITCH, SUBSCRIPTS INDICATE TYPE: LV - LOW VOLTAGE OS - OCCUPANCY SENSOR VS - VACANCY SENSOR a,b,c - SWITCHING DESIGNATIONS NUMBER OF LETTERS EQUALS NO. OF GANGED SWITCHES
PC	PHOTOELECTRIC CONTROL
OS	CEILING MOUNTED OCCUPANCY SENSOR a,b,c - INDICATES CONTROL ZONES
VS	CEILING MOUNTED VACANCY SENSOR a,b,c - INDICATES CONTROL ZONES

DRAWING SYMBOLS

1 / E-XXX	SECTION DETAIL NUMBER VIEW REFERENCE SHEET NUMBER
1 / E-XXX	DETAIL/ENLARGED PLAN NUMBER VIEW REFERENCE SHEET NUMBER
1 / E-XXX	ELEVATION DETAIL NUMBER VIEW REFERENCE SHEET NUMBER

FIRE ALARM

SYMBOL	DESCRIPTION
F	MANUAL PULL STATION
S	SMOKE DETECTOR
H	COMBINATION SET TEMPERATURE AND RATE OF RISE HEAT DETECTOR
CO	CARBON MONOXIDE DETECTOR
DSD	DUCT SMOKE DETECTOR
F 15 H	NOTIFICATION APPLIANCE, AUDIBLE AND VISUAL # INDICATES STROBE CANDELA IF OTHER THAN 75. C - INDICATES CEILING
F 15 H	NOTIFICATION APPLIANCE, VISUAL # INDICATES STROBE CANDELA IF OTHER THAN 75. C - INDICATES CEILING
CO 15	CARBON MONOXIDE NOTIFICATION APPLIANCE, AUDIBLE AND VISUAL; # INDICATES STROBE CANDELA IF OTHER THAN 75
TS	TAMPER SWITCH
WF	SPRINKLER WATERFLOW SWITCH (PADDLE OR PRESSURE SWITCH TYPE)
FACP	FIRE ALARM CONTROL PANEL
FAAP	FIRE ALARM ANNUNCIATION PANEL

ACCESS CONTROL

SYMBOL	DESCRIPTION
DC	DOOR CONTACT SWITCH. PROVIDE SINGLE GANG JUNCTION BOX AND 1" CONDUIT WITH PULL STRING TO ABOVE ACCESSIBLE CEILING SPACE. (HARDWARE AND WIRING BY OTHERS)
CR	CARD READER. PROVIDE DOUBLE GANG JUNCTION BOX AND 1" CONDUIT WITH PULL STRING TO ABOVE ACCESSIBLE CEILING SPACE. (HARDWARE AND WIRING BY OTHERS)

CLOSED CIRCUIT TELEVISION

SYMBOL	DESCRIPTION
	SECURITY CAMERA. PROVIDE SINGLE GANG JUNCTION BOX AND 1" CONDUIT WITH PULL STRING TO ABOVE ACCESSIBLE CEILING. (CAMERA AND CABLING BY OTHERS)

COMMUNICATIONS

SYMBOL	DESCRIPTION
2P	COMBINATION POWER AND TELE/DATA OUTLET; "#P" INDICATES QUANTITY OF DUPLEX RECEPTACLES REQUIRED. PROVIDE SEPERATE SINGLE-GANG BOX AND 1" CONDUIT TO ABOVE ACCESSIBLE CEILING SPACE FOR TELE/DATA OUTLET. EXAMPLE SYMBOL SHOWN INDICATES : (2) DUPLEX RECEPTACLES AND (1) SINGLE-GANG TELE/DATA WALL BOX.
WAP	WIRELESS ACCESS POINT (ALL WORK BY OTHERS)
VP	VIDEO PROJECTOR MOUNT

LUMINAIRES

SYMBOL	DESCRIPTION
FA d	LUMINAIRE. UPPER CASE LETTERS INDICATE FIXTURE TYPE ON SCHEDULE, LOWER CASE LETTER INDICATES CONTROL DESIGNATION.
FA d	WALL MOUNTED LUMINAIRE. UPPER CASE LETTERS INDICATE FIXTURE TYPE ON SCHEDULE, LOWER CASE LETTER INDICATES CONTROL DESIGNATION.
NL	LUMINAIRE CONNECTED TO NIGHT LIGHT CIRCUIT, UNSWITCHED
EM	LUMINAIRE WITH INTEGRAL EMERGENCY BATTERY BACKUP
INV	LUMINAIRE CONNECTED TO EMERGENCY LIGHTING INVERTER
	LUMINAIRE STRIP
	WALL MOUNTED EMERGENCY LUMINAIRE WITH BATTERY PACK
	CEILING MOUNTED EXIT LUMINAIRE
	WALL MOUNTED EXIT LUMINAIRE

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RHINEBECK ARCHITECTURE

Seal:

STATE OF NEW YORK · MICHAEL K. SUSSMAN · 077887-1 · LICENSED PROFESSIONAL ENGINEER

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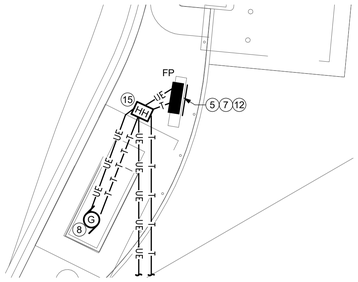
ELECTRICAL LEGEND & ABBREVIATIONS

Sheet Number:

E001



2 ELECTRICAL SITE PLAN - ENLARGED GENERATOR & FUEL ISLAND CABINET

1" = 10'-0"

GENERAL NOTES:

A. REFER TO ONE-LINE DIAGRAM, SCHEDULES AND DETAILS FOR ADDITIONAL INFORMATION AND REQUIREMENTS.

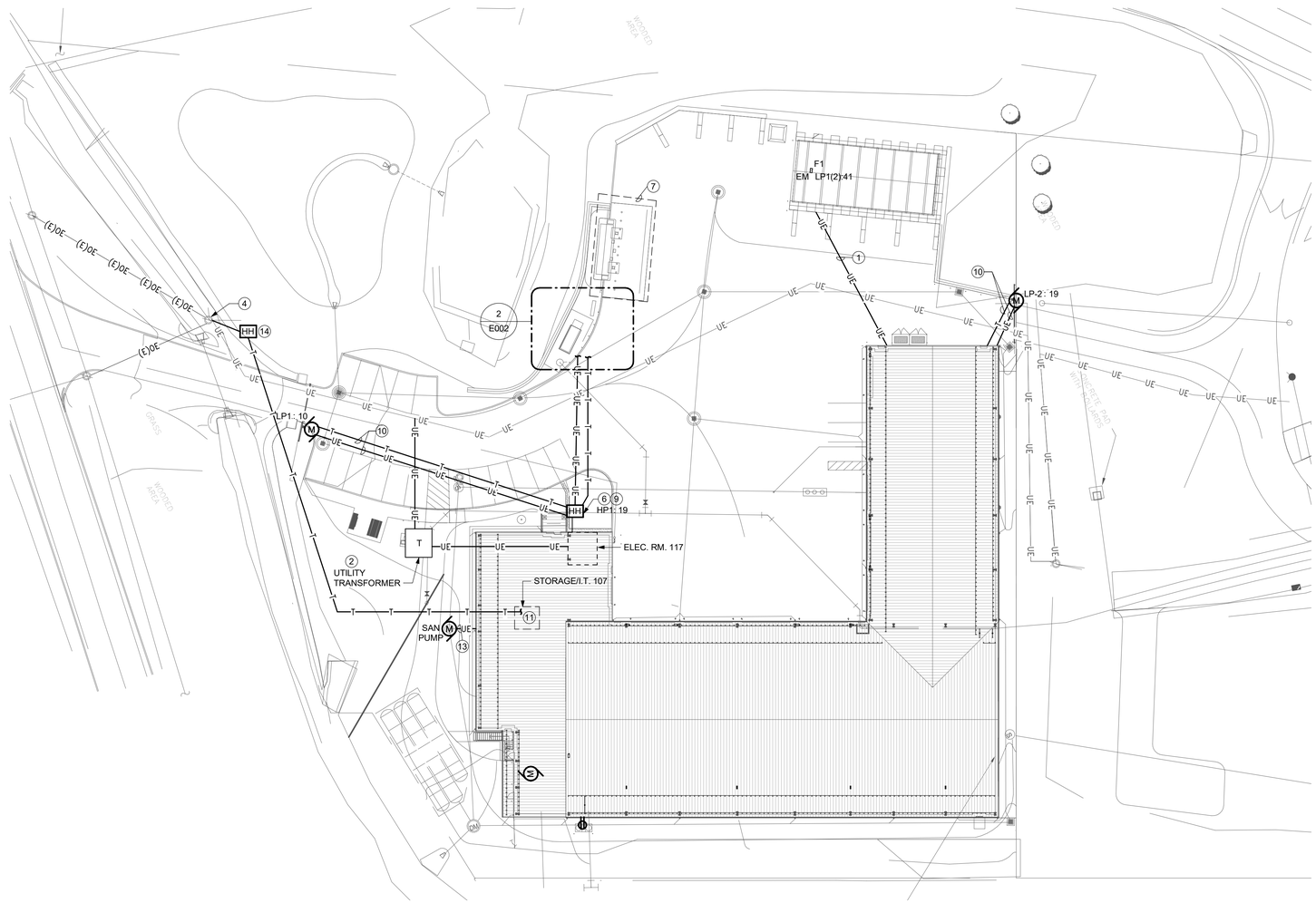
B. ALL CONDUITS BENEATH AREAS OF VEHICULAR TRAFFIC SHALL BE RIGID METAL CONDUIT (RMC). RMC SHALL EXTEND A MINIMUM OF 24" BEYOND THE AREA OF VEHICULAR TRAFFIC. REFER TO TYPICAL DUCTBANK SECTION DETAIL.

C. ALL CONDUITS NOT BENEATH AREAS OF VEHICULAR TRAFFIC SHALL BE SCHEDULE 80 RIGID NONMETALLIC CONDUIT (DIRECT BURIED). REFER TO TYPICAL DIRECT BURIED CONDUIT DETAIL.

D. PROVIDE FIRESTOPPING AND WATERPROOF SEALS AS REQUIRED WHERE PENETRATING EXTERIOR WALLS.

E002 DRAWING NOTES:

1. PROVIDE (1) 1" CONDUIT FOR SHED ELECTRICAL LOADS.
2. PROVIDE UTILITY TRANSFORMER PAD. REFER TO UTILITY TRANSFORMER PAD DETAIL FOR REQUIREMENTS.
3. PROVIDE GENERATOR AND CONCRETE PAD. REFER TO ONE-LINE DIAGRAM AND DETAILS FOR ADDITIONAL INFORMATION AND REQUIREMENTS.
4. PROVIDE ELECTRICAL CONDUIT RISER AT EXISTING UTILITY POLE FOR NEW PRIMARY SERVICE CONDUCTORS. SEE UTILITY POLE CONDUIT RISER DETAIL.
5. PROVIDE FUEL ISLAND PANEL "FP" IN WEATHERPROOF ENCLOSURE. ENCLOSURE PROVIDED BY OTHERS. PROVIDE 2" COMMUNICATIONS CONDUIT FROM ENCLOSURE TO HANDHOLE.
6. PROVIDE (2) POWER HANDHOLES AND 1 DATA HANDHOLE FOR CONDUITS COMING INTO/OUT OF THE BUILDING. REQUIRED CONDUIT INCLUDE BUT ARE NOT LIMITED TO GENERATOR FEEDER (ADD ALTERNATE 6), MOTORIZED GATE, SITE LIGHTING CIRCUIT, FUEL ISLAND FEEDER, AND TELE/DATA SERVICE. REFER TO ONE LINE DIAGRAM AND ELECTRICAL SHCEDULES AND FLOOR PLANS FOR INDIVIDUAL CIRCUIT REQUIREMENTS. PROVIDE (1) SPARE 2" CONDUIT TO EACH HANDHOLE FROM INSIDE OF THE BUILDING.
7. FUEL ISLAND IS PART OF ALTERNATE 2.
8. GENERATOR IS PART OF ALTERNATE 6. PROVIDE PAD MOUNTED GENERATOR, REFER TO DRAWING E503.
9. PROVIDE (1)277V, 20A BRANCH CIRCUIT FOR SITE LIGHTING BY OTHERS. TIE INTO TIMECLOCK.
10. PROVIDE UNDERGROUND POWER AND 1" SPARE DATA CONDUIT FOR MOTORIZED VEHICLE GATE. REFER TO EQUIPMENT CONTROL SCHEDULE FOR GATE POWER REQUIREMENTS.
11. PROVIDE 2" SPARE COMMUNICATIONS UNDERGROUND CONDUIT TO UTILITY POLE INDICATED BY DRAWING NOTE 4.
12. PROVIDE MONITOR MODULE AND FIRE ALARM CIRCUIT FOR CONNECTION TO FUEL ISLAND FIRE SUPPRESSION SYSTEM. ROUTE FIRE ALARM CIRCUIT IN SPARE FUEL ISLAND COMMUNICATIONS CONDUIT.
13. EMPTY CONDUIT WITH PULL STRING FOR ROUTING OF PUMP CABLE PROVIDED BY OTHERS, SEE DRAWING E102 FOR DETAILS ON CONDUIT.
14. PROVIDE (2) HANDHOLES, (1) FOR UTILITY ELECTRIC WITHIN 10' OF UTILITY POLE AND (1) FOR COMMUNICATIONS.
15. PROVIDE (2) HANDHOLES, (1) FOR POWER AND (1) FOR COMMUNICATIONS.



1 ELECTRICAL SITE PLAN

1" = 30'-0"

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Drawing Title:

SITE PLAN

Sheet Number:

E002

GENERAL NOTES:

A. UNLESS OTHERWISE NOTED, ALL BRANCH CIRCUIT WIRING SHALL BE (2)#12, (1)#12G, 3/4"C. TO PANEL LP2 UNLESS OTHERWISE NOTED.

B. REFER TO ONE-LINE DIAGRAM, SCHEDULES AND DETAILS FOR ADDITIONAL INFORMATION AND REQUIREMENTS.

E101 DRAWING NOTES

1 PROVIDE (5) 3/4" EMPTY CONDUITS WITH PULL STRING FROM (V-4) CONTROL PANEL TO:
1.(V-5) PHOTO EYES
2.(V-11) TRAFFIC LIGHT
3.(V-13) UNDER CARRIAGE ACTIVATION LIGHT
4.(V-14) REMOTE ON/OFF SWITCH
5.(V-15) LOOP DETECTOR
VEHICLE WASH INSTALLERS TO PULL LOW VOLTAGE WIRING

2 PROVIDE 3/4" EMPTY CONDUITS WITH PULL STRING FROM (V-1) PRESSURE PLANT TO (V-6) CONTROL PANELS

3 PROVIDE 1" CONDUIT UNDER SLAB TO VEHICLE VENTILATION SYSTEM. COORDINATE STUB-UP AND ROUGH-IN WITH VENTILATION SYSTEM INSTALLER.

4 PROVIDE JUNCTION BOXES ON WALL AND 1" CONDUITS UNDER SLAB BETWEEN HIGH LEVEL ALARMS (C-4 & C-7) AND WASTE FLUID TANK (C-13).

5 PROVIDE JUNCTION BOX ON WALL AND 1" CONDUIT UNDER SLAB BETWEEN SUMP PUMP ALARM PANEL AND FLUID STORAGE ROOM SUMP. PENETRATE SUMP AS HIGH AS POSSIBLE. SEAL PENETRATION WATERTIGHT.

6 UTILITY KIT RECEPTACLE PROVIDED BY LIFT MANUFACTURER. PROVIDE 1" CONDUIT UNDER SLAB AND DEDCATED 20A, 210V BRANCH CIRCUIT TO UTILITY KIT. COORDINATE FINAL STUB UP LOCATION WITH WEHICLE LIFT INSTALLER.

E101 DRAWING NOTES

7 1" SUB SLAB CONDUIT FOR LIFT POWER, RUN POWER FOR LIFT TO PASSENGER SIDE OF LIFT. EC TO COORDINATE FINAL STUB UP LOCATION WITH VEHICLE LIFT INSTALLER.

8 5 TON CRANE IS PART OF ADD ALTERNATE 4, PROVIDE POWER FEED AS INDICATED UNDER THE BASE BID. FINAL CONNECTION OF EQUIPMENT TO POWER FEED IS PART OF THE BID ALTERNATE 4.

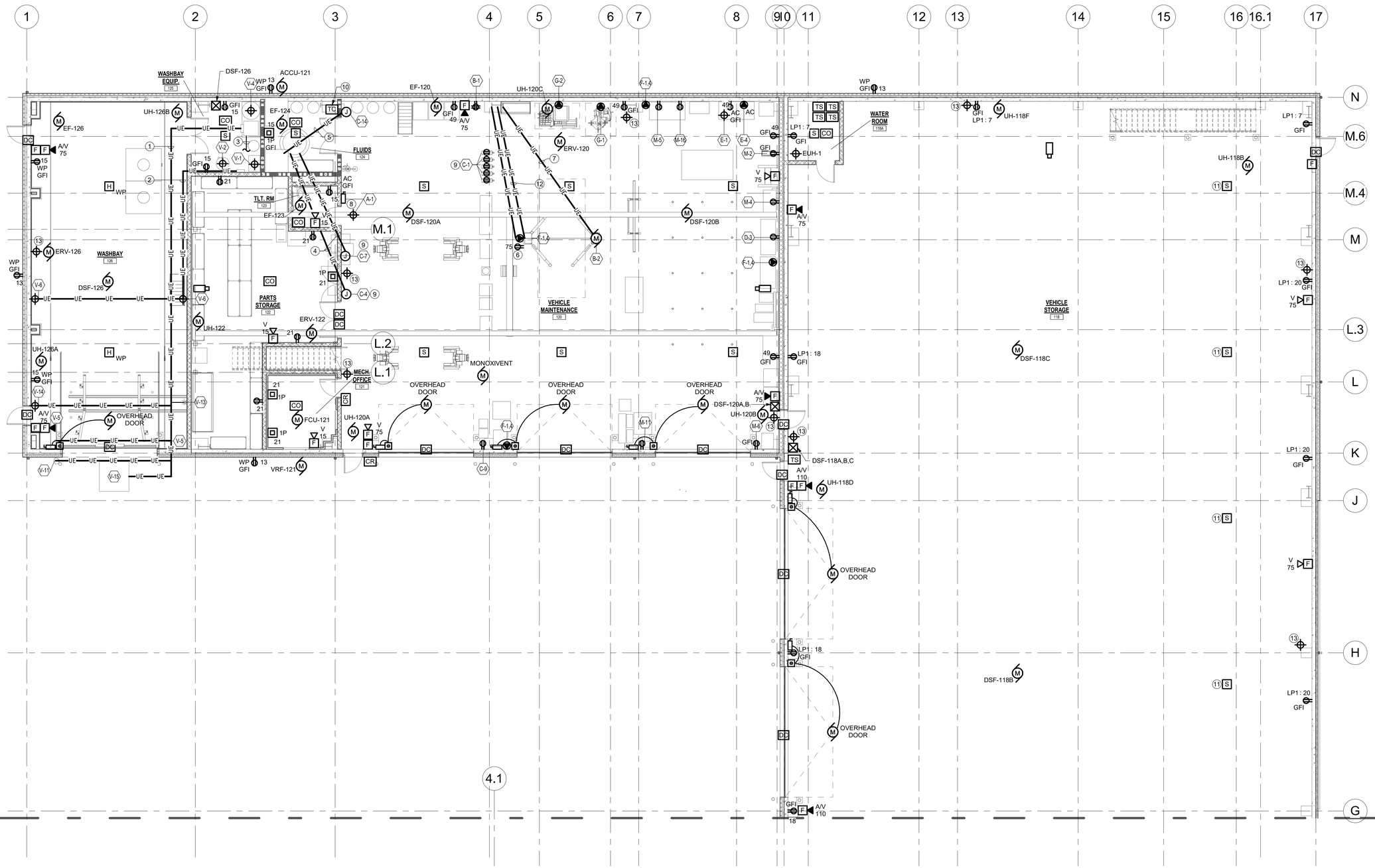
9 EQUIPMENT IS PART OF ADD ALTERNATE 5, PROVIDE POWER FEED AS INDICATED UNDER THE BASE BID. FINAL CONNECTION OF EQUIPMENT TO POWER FEED IS PART OF THE BID ALTERNATE 5.

10 PROVIDE DEDICATED 15A, 120V CIRCUIT FUEL SYSTEM MOTORIZED BALL VALVE. INSTALL TIME CLOCK FURNISHED BY GC TO CONTROL FUILD SYSTEM CIRCUIT.

11 SMOKE DETECTORS ARE PART OF ADD ALTERNATE 1. SHOULD ADD ALTERNATE 1 BE ACCEPTED PROVIDE SMOKE DETECTORS MOUNTED TO UNDERSIDE OF MEZZANINE 2A.

12 PROVIDE UNDER SLAB CONDUIT TO EQUIPMENT. REFER TO GARAGE EQUIPMENT ELECTRICAL CONNECTION SCHEDULE FOR REQUIREMENTS. COORDINATE FINAL STUB UP LOCATION WITH VEHICLE LIFT INSTALLER.

13 E3POINT SENSOR PROVIDED BY OTHERS. PROVIDE (2)#12, (1)#12G, 3/4"C. REFER TO MECHANICAL DRAWINGS FOR ADDITIONAL INFORMATION.



1 FIRST FLOOR POWER & SYSTEMS - AREA A
1/8" = 1'-0"

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Drawing Title:

FIRST FLOOR AREA A POWER & SYSTEMS PLAN

Sheet Number:

E101

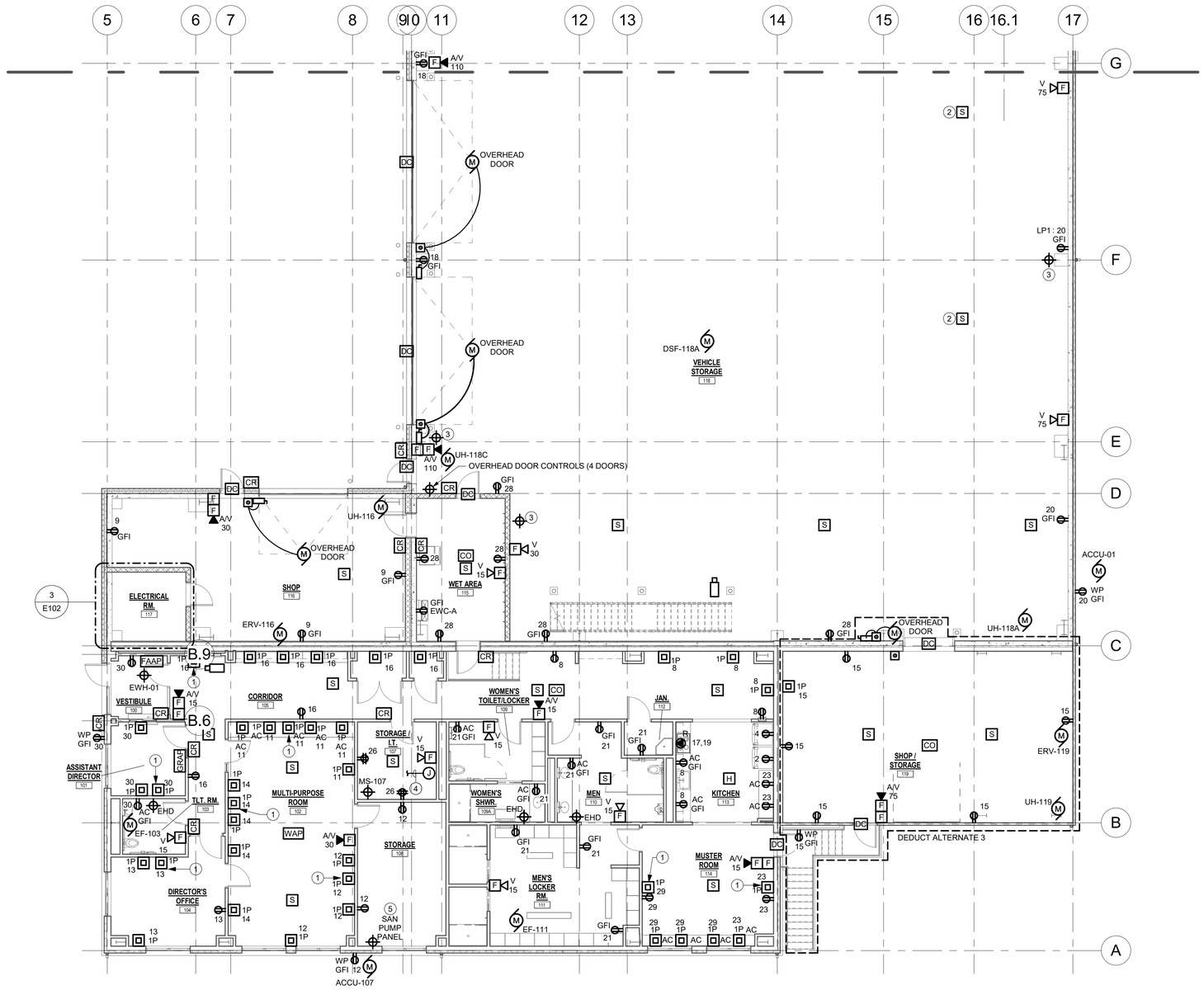
GENERAL NOTES:

A. UNLESS OTHERWISE NOTED, ALL BRANCH CIRCUIT WIRING SHALL BE (2)#12, (1)#12G, 3/4"C. TO PANEL LP1, UNLESS OTHERWISE NOTED.

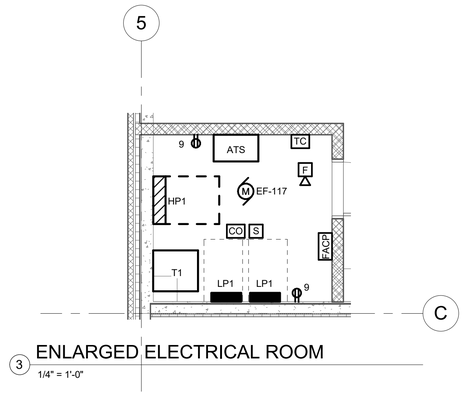
B. REFER TO ONE-LINE DIAGRAM, SCHEDULES AND DETAILS FOR ADDITIONAL INFORMATION AND REQUIREMENTS.

E102 DRAWING NOTES:

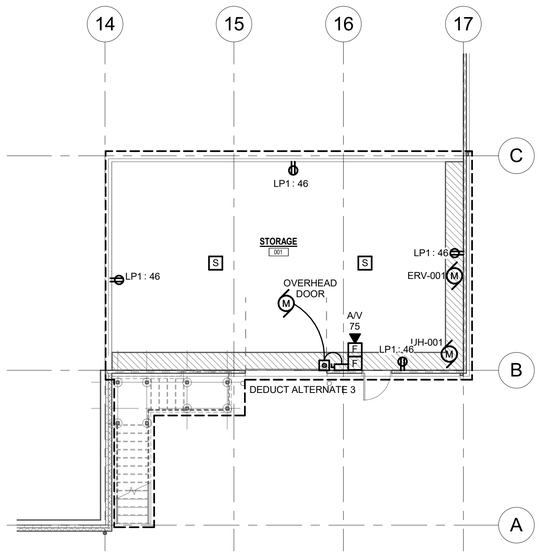
1. RECEPTACLE AND DATA DROP ARE FOR WALL MOUNTED TV. CONTRACTOR TO COORDINATE MOUNTING HEIGHTS IN FIELD PRIOR TO ROUGH-IN.
2. SMOKE DETECTORS ARE PART OF ADD ALTERNATE 1. SHOULD ADD ALTERNATE 1 BE ACCEPTED PROVIDE SMOKE DETECTORS MOUNTED TO UNDERSIDE OF MEZZANINE 2A.
3. E3POINT SENSOR PROVIDED BY OTHERS. PROVIDE (2)#12, (1)#12G, 3/4"C. REFER TO MECHANICAL DRAWINGS FOR ADDITIONAL INFORMATION.
4. PROVIDE 2" CONDUIT FROM IT ROOM TO HANDHOLE ON TELE/DATA HANDHOLE ON SITE.
5. PROVIDE 20A 3P CIRCUIT BREAKER IN PANEL HP1, CIRCUIT WITH (3)#12,(1)#12G, 3/4"C FOR CIRCUITING OF SAN PUMP PANEL. PROVIDE (1)2" CONDUIT FROM SAN PUMP PANEL TO SAN PUMPS ON SITE FOR ROUTING OF CABLE PROVIDED BY OTHERS.



1 FIRST FLOOR POWER & SYSTEMS - AREA B
1/8" = 1'-0"



3 ENLARGED ELECTRICAL ROOM
1/4" = 1'-0"



2 BASEMENT FLOOR POWER & SYSTEMS PLAN
1/8" = 1'-0"

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FIRST FLOOR AREA B AND BASEMENT POWER & SYSTEMS PLAN

Sheet Number:

E102

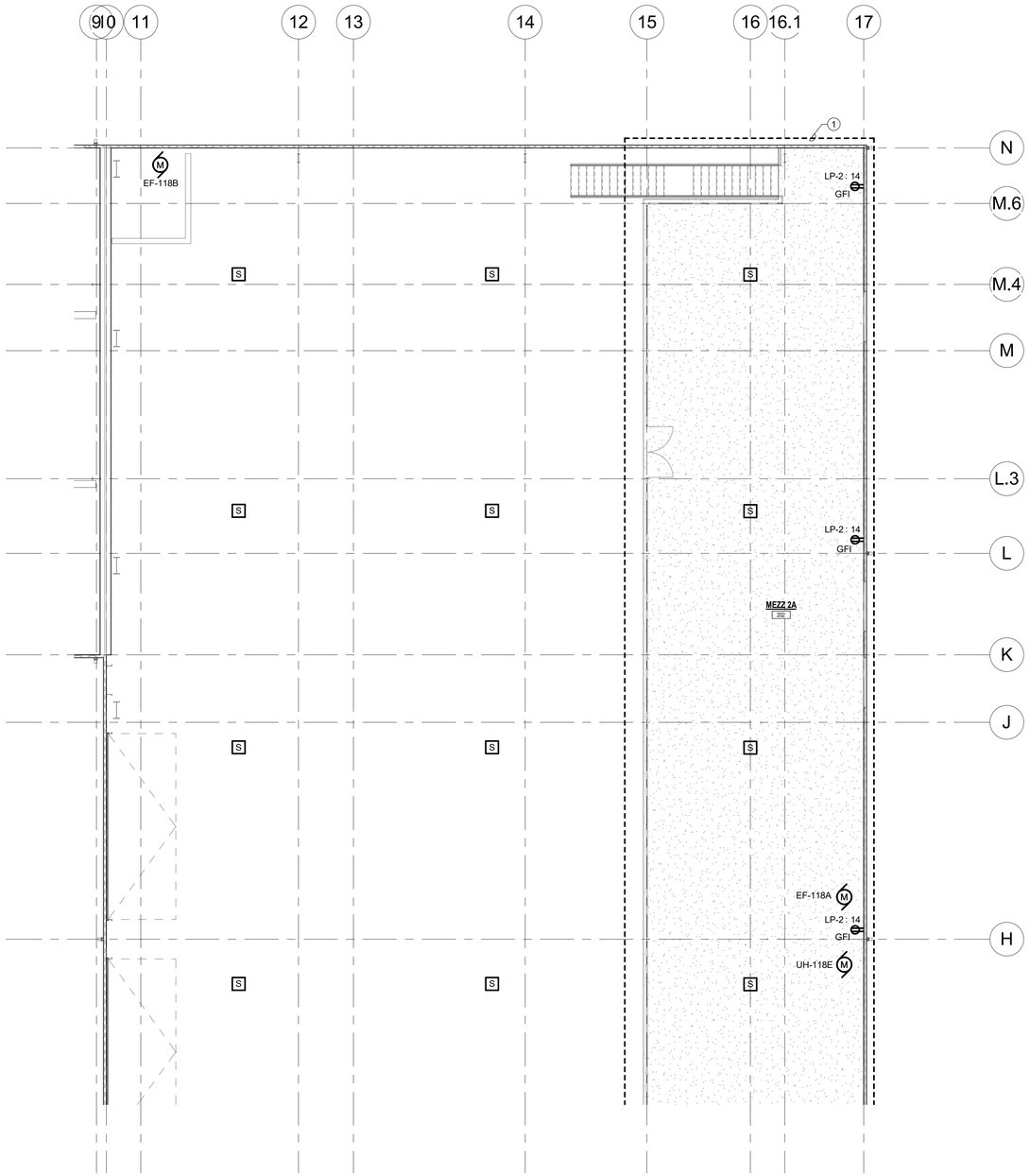
GENERAL NOTES:

A. UNLESS OTHERWISE NOTED, ALL BRANCH CIRCUIT WIRING SHALL BE (2)#12, (1)#12G, 3/4"C. TO THE INDICATED PANEL.

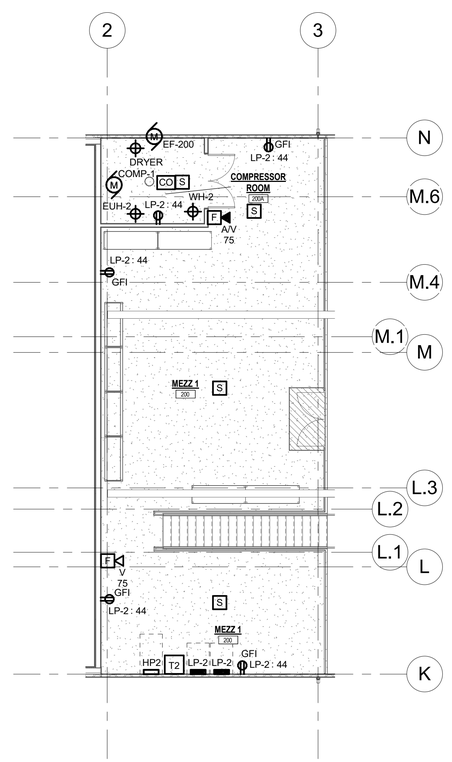
B. REFER TO ONE-LINE DIAGRAM, SCHEDULES AND DETAILS FOR ADDITIONAL INFORMATION AND REQUIREMENTS.

E103 DRAWING NOTES

1 AREA ENCOMPASSED IS PART OF ALTERNATE 1, FOR BASE BID PROVIDE CIRCUITING AS SHOWN TO A JUNCTION BOX.



2 MEZZANINE POWER & SYSTEMS PLAN - MEZZANNINE 2A
1/8" = 1'-0"



1 MEZZANINE POWER & SYSTEMS PLAN - MEZZANNINE 1
1/8" = 1'-0"

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MEZZANNINE POWER & SYSTEMS PLAN

Sheet Number:

E103

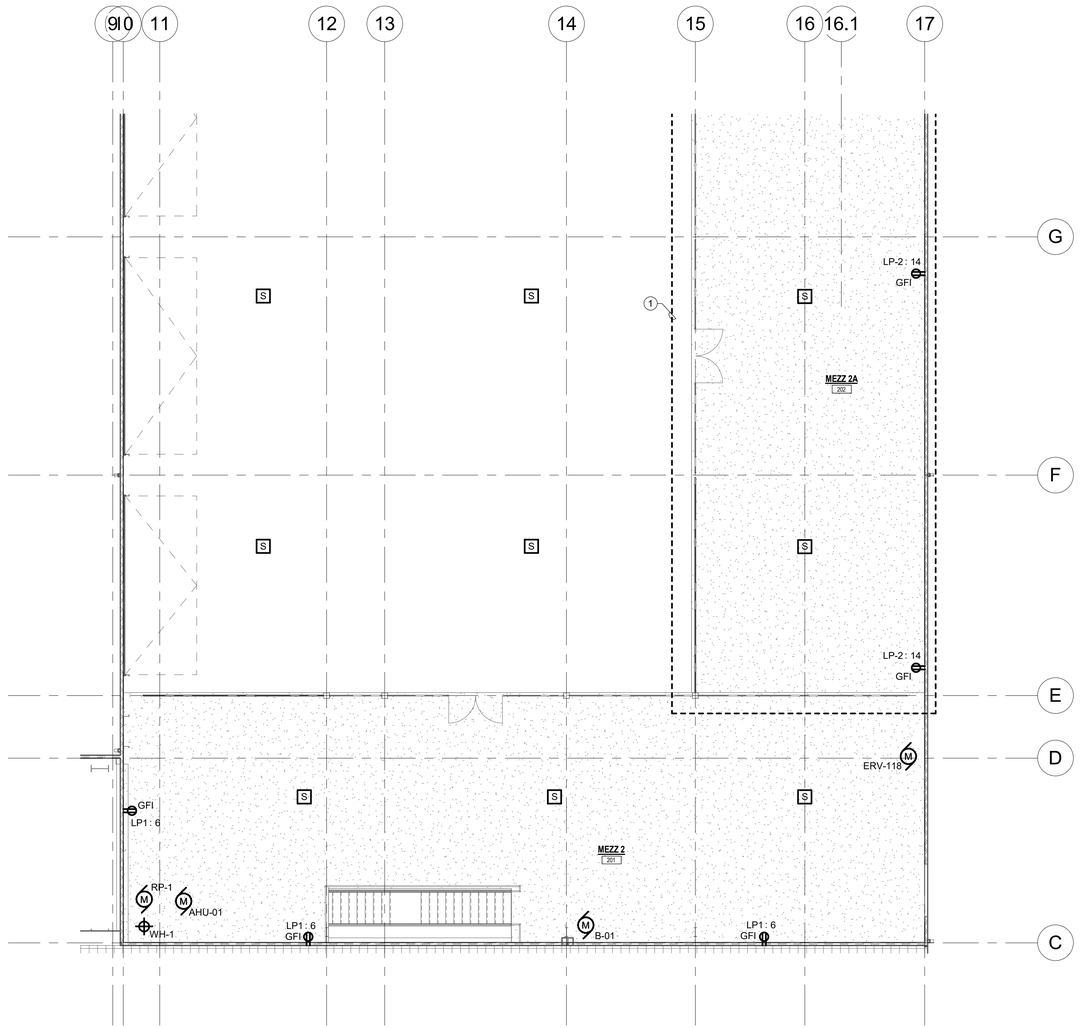
GENERAL NOTES:

A. UNLESS OTHERWISE NOTED, ALL BRANCH CIRCUIT WIRING SHALL BE (2)#12, (1)#12G, 3/4"C. TO THE INDICATED PANEL.

B. REFER TO ONE-LINE DIAGRAM, SCHEDULES AND DETAILS FOR ADDITIONAL INFORMATION AND REQUIREMENTS.

E104 DRAWING NOTES

1 AREA ENCOMPASSED IS PART OF ALTERNATE 1, FOR BASE BID PROVIDE CIRCUITING AS SHOWN TO A JUNCTION BOX.



1 MEZZANINE POWER & SYSTEMS PLAN - MEZZANNINE 2/2A
1/8" = 1'-0"

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MEZZANNINE POWER & SYSTEMS PLAN

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E104

GENERAL NOTES:

A. UNLESS OTHERWISE NOTED, CIRCUIT ALL LUMINAIRES AND DEVICES USING (2)# 12,(1)#12G, 3/4"C TO PANEL HP2 UNLESS OTHERWISE NOTED.

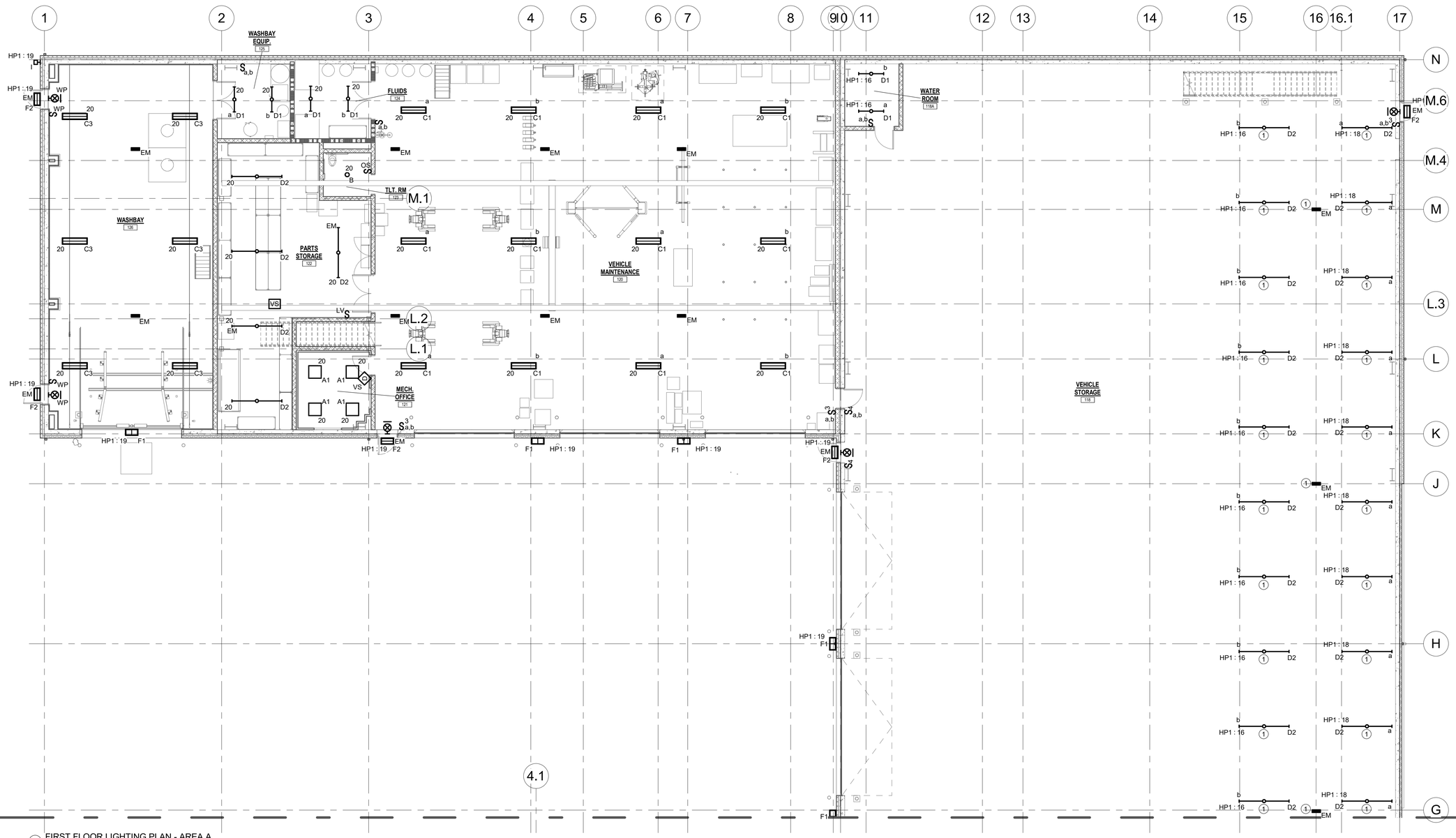
B. COORDINATE MOUNTING OF ALL CEILING MOUNTED LUMINAIRES WITH OTHER TRADES PRIOR TO INSTALLATION.

C. ALL EXIT SIGNS SHALL BE POWERED FROM THE LOCAL LIGHTING CIRCUIT, TAPPED UPSTREAM OF ANY CONTROL DEVICES.

D. ALL EXTERIOR LIGHT FIXTURES SHAL BE ON THE SAME CIRCUIT AND CONTROLLED BY THE TIME CLOCK LOCATED IN ELEC. ROOM 117.

E201 DRAWING NOTES

1 LIGHT FIXTURE IS PART OF MEZZANINE 2A ALTERNATE 1, FOR BASE BID LIGHTING LAYOUT SEE DRAWINGS E203 & E204. BASE BID PROVIDE CIRCUITING AS SHOWN TO A JUNCTION BOX FOR UNDER MEZZANINE LIGHTING.



1 FIRST FLOOR LIGHTING PLAN - AREA A
1/8" = 1'-0"

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FIRST FLOOR AREA A LIGHTING PLAN

Sheet Number:

E201

GENERAL NOTES:

A. UNLESS OTHERWISE NOTED, CIRCUIT ALL LUMINARIES AND DEVICES USING (2)# 12,(1)#12G, 3/4"C TO PANEL HP1, UNLESS OTHERWISE NOTED.

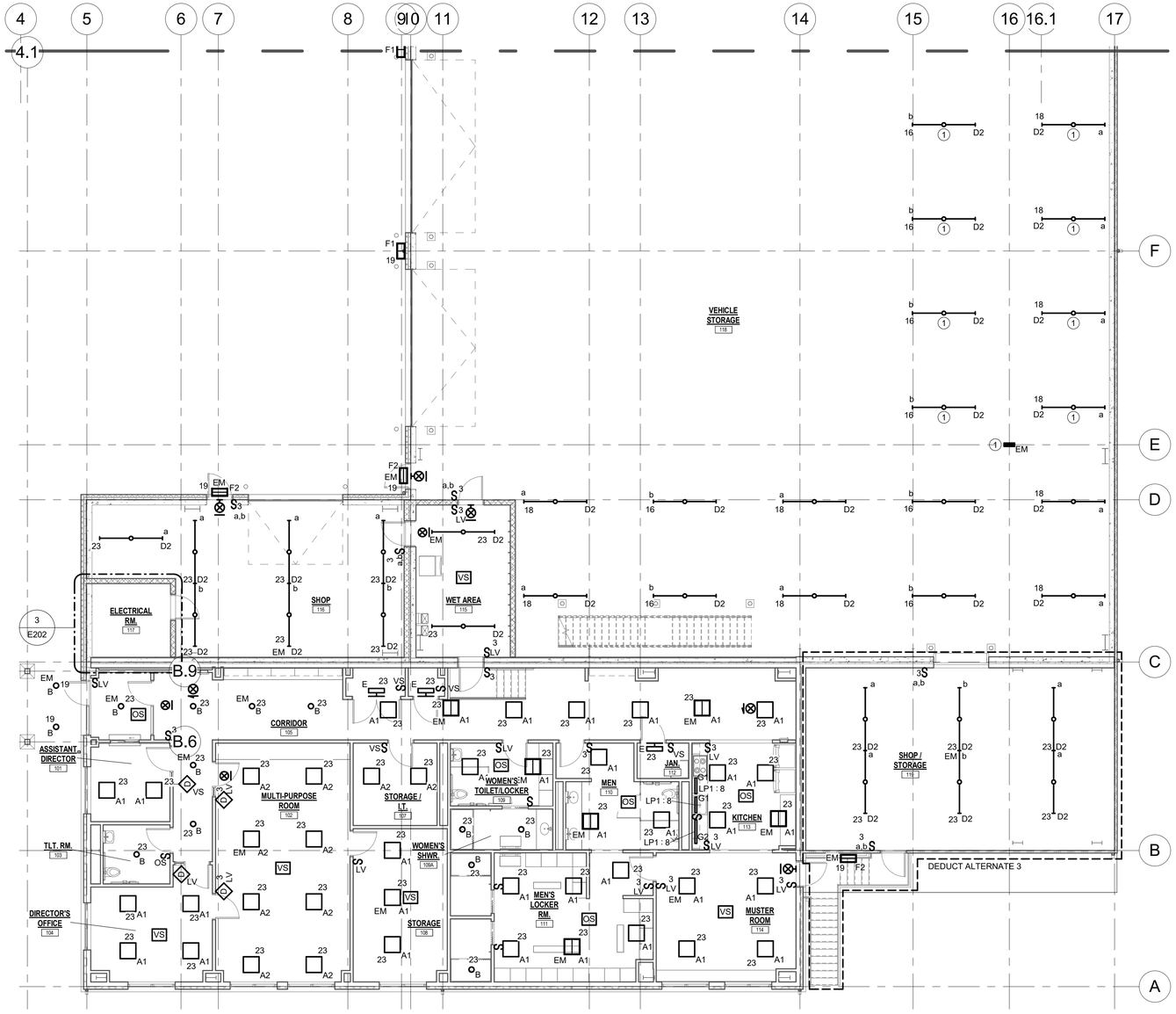
B. COORDINATE MOUNTING OF ALL CEILING MOUNTED LUMINARIES WITH OTHER TRADES PRIOR TO INSTALLATION.

C. ALL EXIT SIGNS SHALL BE POWERED FROM THE LOCAL LIGHTING CIRCUIT, TAPPED UPSTREAM OF ANY CONTROL DEVICES.

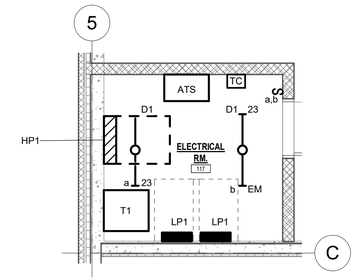
D. ALL EXTERIOR LIGHT FIXTURES SHALL BE ON THE SAME CIRCUIT AND CONTROLLED BY THE TIME CLOCK LOCATED IN ELEC. ROOM 117

E202 DRAWING NOTES

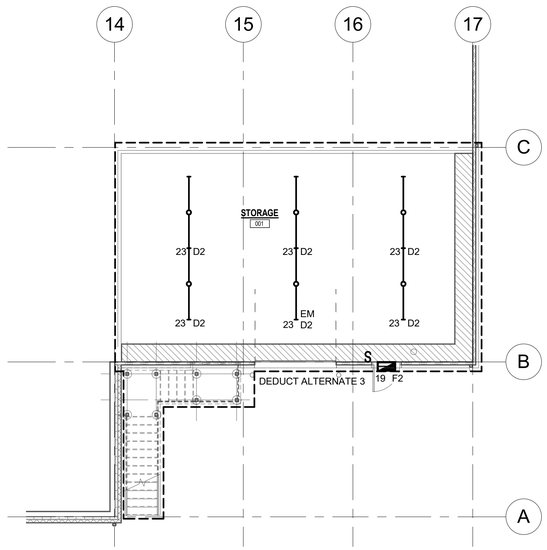
1 LIGHT FIXTURE IS PART OF MEZZANINE ALTERNATE 1, FOR BASE BID LIGHTING LAYOUT SEE DRAWINGS E203 & E204. BASE BID PROVIDE CIRCUITING AS SHOWN TO A JUNCTION BOX FOR UNDER MEZZANINE LIGHTING.



1 FIRST FLOOR LIGHTING PLAN - AREA B
1/8" = 1'-0"



3 ENLARGED ELECTRIC ROOM LIGHTING PLAN
1/4" = 1'-0"



2 BASEMENT FLOOR LIGHTING PLAN
1/8" = 1'-0"

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FIRST FLOOR AREA B AND BASEMENT LIGHTING PLAN

Sheet Number:

E202

GENERAL NOTES:

A. UNLESS OTHERWISE NOTED, CIRCUIT ALL LUMINARIES AND DEVICES USING (2)# 12,(1)#12G, 3/4"C TO PANEL HP1, UNLESS OTHERWISE NOTED.

B. COORDINATE MOUNTING OF ALL CEILING MOUNTED LUMINARIES WITH OTHER TRADES PRIOR TO INSTALLATION.

C. ALL EXIT SIGNS SHALL BE POWERED FROM THE LOCAL LIGHTING CIRCUIT, TAPPED UPSTREAM OF ANY CONTROL DEVICES.

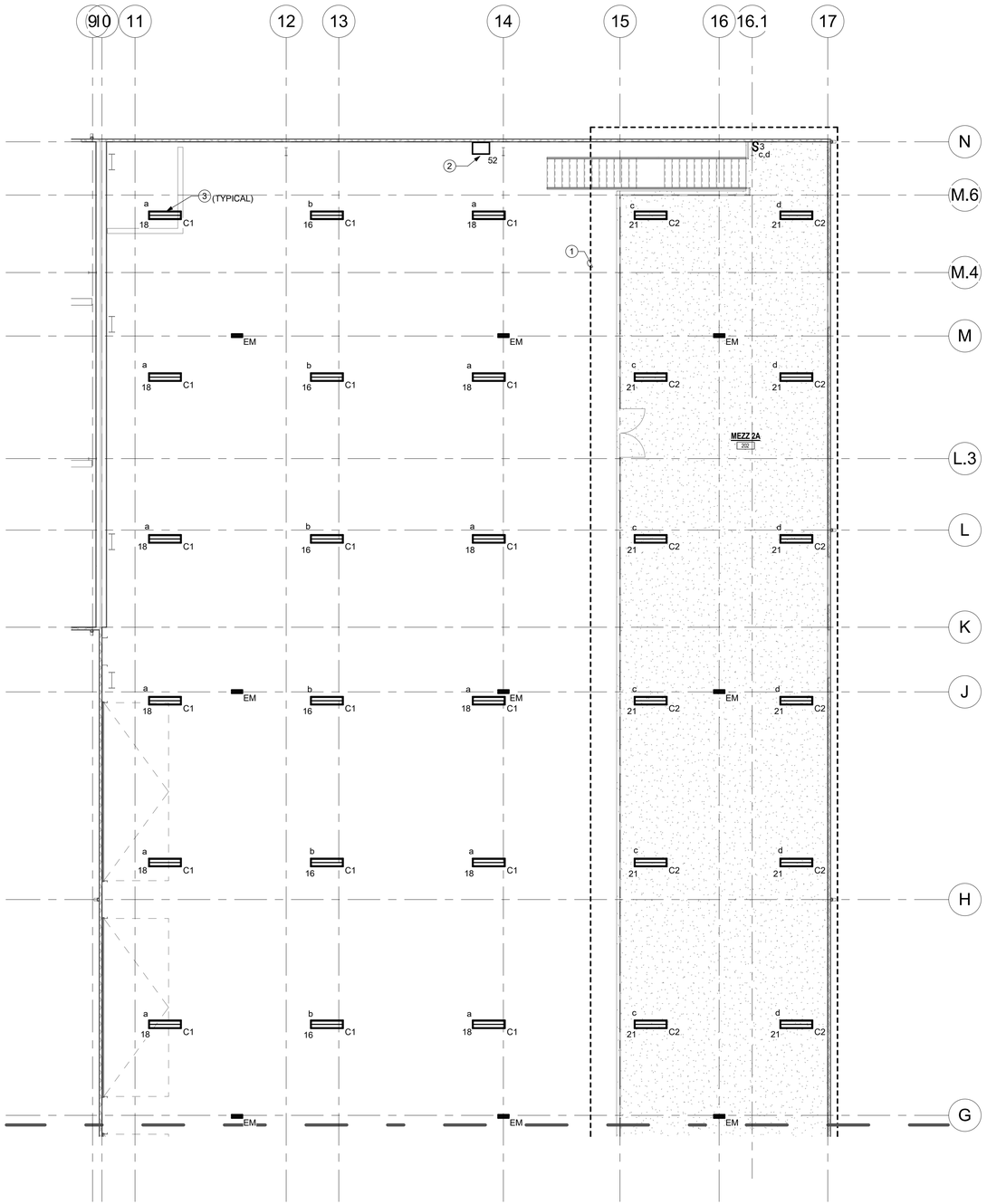
D. ALL EXTERIOR LIGHT FIXTURES SHALL BE ON THE SAME CIRCUIT AND CONTROLLED BY THE TIME CLOCK LOCATED IN ELEC. ROOM 117

E203 DRAWING NOTES

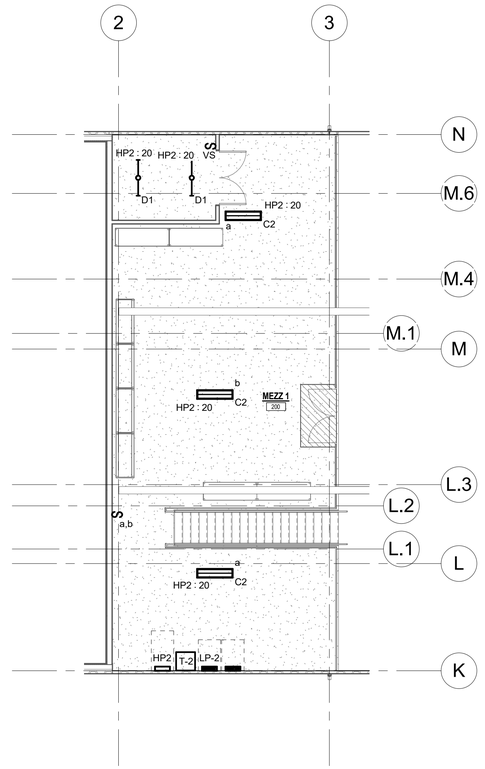
1 AREA IS PART OF THE MEZZANINE 2A ALTERNATE 1, SHOULD ADD ALTERNATE NOT BE ACCEPTED LIGHT FIXTURES SHOWN SHALL BE TYPE "C1", AND SHALL BE CONNECTED TO THE VEHICLE STORAGE LIGHTING CONTROLS.

2 PROVIDE CENTRAL BATTERY SYSTEM FOR TYPE "EM" LIGHTS (DESIGN MAKE: SIGNTEX SERIES CBL) SUITABLE FOR 277V INPUT. PROVIDE WITH OPTIONAL LCD DISPLAY SCREEN. CIRCUIT ALL TYPE "EM" LIGHTS FROM CENTRAL BATTERY SYSTEM USING #10 WIRING.

3 CIRCUIT ALL FIXTURES ON SWITCHLEG "a" IN VEHICLE STORAGE 118 WITH (2)#10, (1)#10G, 3/4"C. PROVIDE 30A/1P BREAKER.



2 MEZZANINE LIGHTING PLAN - MEZZANNINE 2A
1/8" = 1'-0"



1 MEZZANINE LIGHTING PLAN - MEZZANNINE 1
1/8" = 1'-0"

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Drawing Title:

MEZZANNINE LIGHTING PLAN

Sheet Number:

E203

GENERAL NOTES:

A. UNLESS OTHERWISE NOTED, CIRCUIT ALL LUMINARIES AND DEVICES USING (2)# 12,(1)#12G, 3/4"C TO PANEL HP1, UNLESS OTHERWISE NOTED.

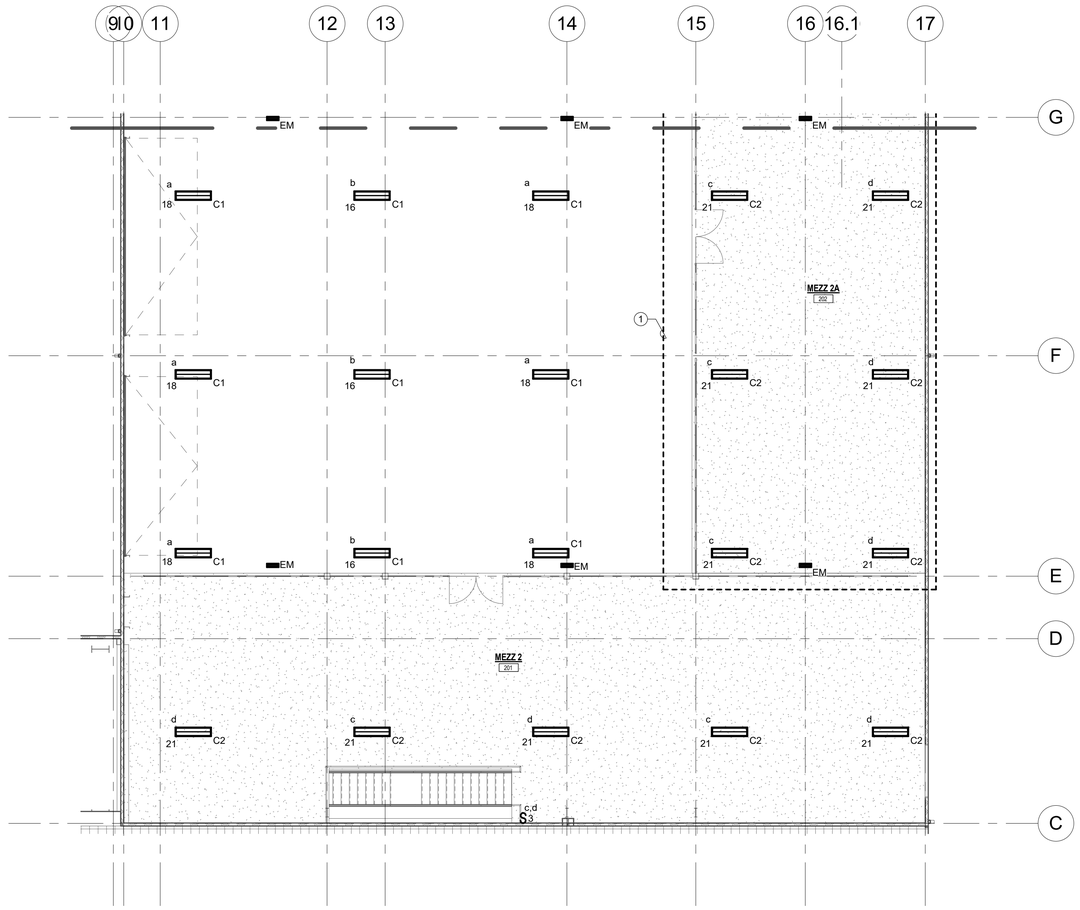
B. COORDINATE MOUNTING OF ALL CEILING MOUNTED LUMINARIES WITH OTHER TRADES PRIOR TO INSTALLATION.

C. ALL EXIT SIGNS SHALL BE POWERED FROM THE LOCAL LIGHTING CIRCUIT, TAPPED UPSTREAM OF ANY CONTROL DEVICES.

D. ALL EXTERIOR LIGHT FIXTURES SHALL BE ON THE SAME CIRCUIT AND CONTROLLED BY THE TIME CLOCK LOCATED IN ELEC. ROOM 117

E204 DRAWING NOTES

1 AREA IS PART OF THE MEZZANINE 2A ADD ALTERNATE, SHOULD ADD ALTERNATE NOT BE ACCEPTED LIGHT FIXTURES SHOWN SHALL BE TYPE "C1", AND SHALL BE CONNECTED TO THE VEHICLE STORAGE LIGHTING CONTROLS.



1 MEZZANINE LIGHTING PLAN - MEZZANNINE 2/2A

1/8" = 1'-0"

Project:

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RHINEBECK ARCHITECTURE

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STATE OF NEW YORK
MICHAEL K. SUSSMAN
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LICENSED PROFESSIONAL ENGINEER

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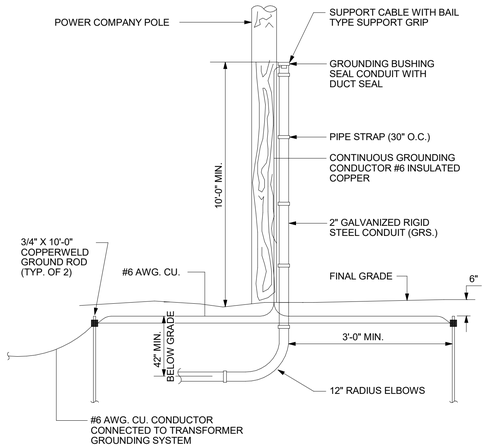
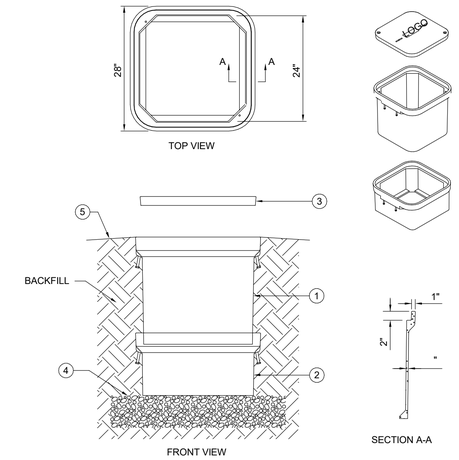
MEZZANNINE LIGHTING PLAN

Sheet Number:

E204



1 UTILITY POLE CONDUIT RISER DETAIL
NTS



NOTES:

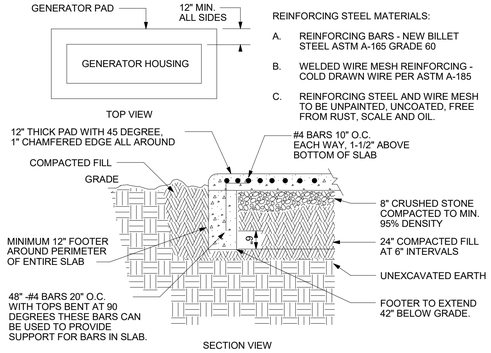
1. 24" x 24" x 24" PRECAST POLYMER CONCRETE STACKABLE ENCLOSURE, OPEN BOTTOM.
2. 24" x 24" x 14" STACKABLE EXTENSION, OPEN BOTTOM.
3. BOLTED COVER.
4. 6" OF #2 CRUSHED STONE BELOW HANDHOLE. EXTEND MINIMUM OF 6" AROUND OUTSIDE EDGE.
5. SLOPE FINISHED GRADE AWAY FROM COVER.

2 HANDHOLE DETAIL
NTS

CONCRETE:
MINIMUM 28 DAY COMPRESSIVE STRENGTH - 3000 PSI
MINIMUM CEMENT FACTOR - 5.5
94 LB. SACKS PER CUBIC YARD OF CONCRETE
MAXIMUM AGGREGATE SIZE - 1"
MAXIMUM SLUMP - 4"
ADMIXTURES: WATER REDUCING AGENT
AIR ENTERING AGENT (4% TO 6%)

REINFORCING STEEL MATERIALS:

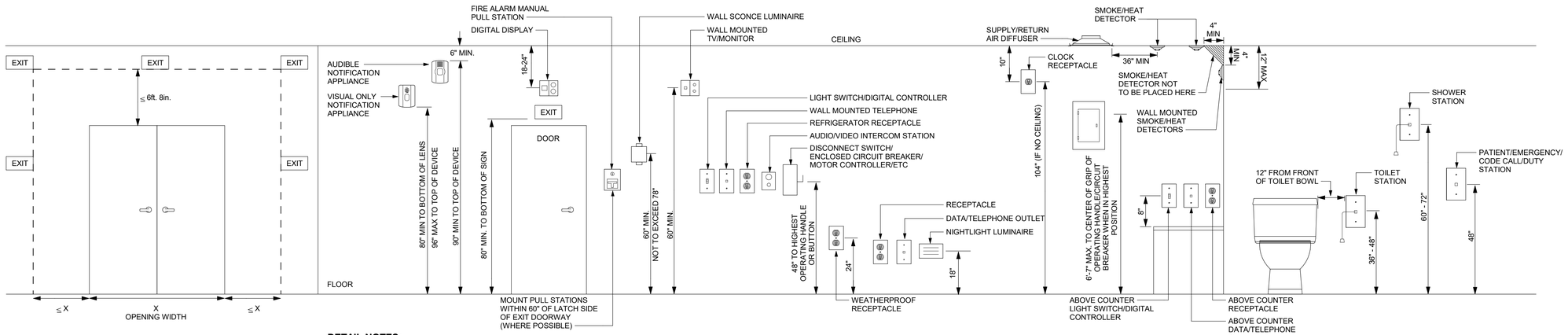
A. REINFORCING BARS - NEW BILLET STEEL ASTM A-165 GRADE 60
B. WELDED WIRE MESH REINFORCING - COLD DRAWN WIRE PER ASTM A-185
C. REINFORCING STEEL AND WIRE MESH TO BE UNPAINTED, UNCOATED, FREE FROM RUST, SCALE AND OIL.



DETAIL NOTES:

A. TOP OF NEW PADS SHALL BE 4" ABOVE EXISTING GRADE LEVEL.
B. TOP SURFACE SHALL BE TROWL FINISHED.
C. PROVIDE ANCHOR BOLTS AS PER GENERATOR MANUFACTURERS REQUIREMENTS.
D. READ THE SPECIFICATIONS AND REFER TO THE CONDUIT PLAN.

3 REINFORCED CONCRETE GENERATOR PAD DETAIL
NTS



DETAIL NOTES:

A. MOUNTING LOCATIONS OF RECEPTACLES, SWITCHES, FIRE ALARM, NURSE CALL AND DATA DEVICES.
B. DEVICE HEIGHTS ARE TO BE AS INDICATED UNLESS OTHERWISE NOTED.

4 DEVICE MOUNTING LOCATION DETAIL
NTS

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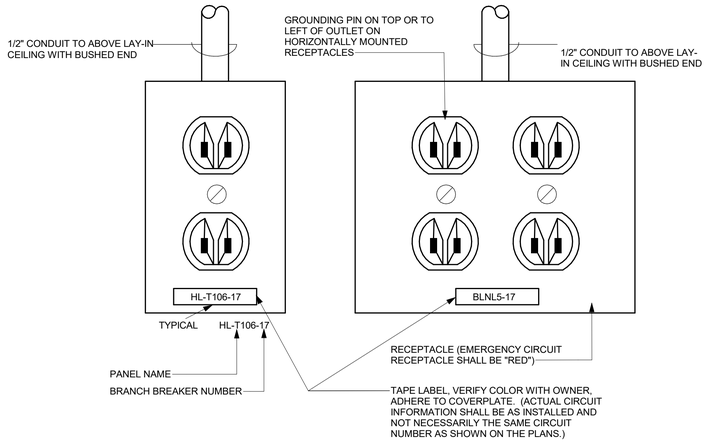
ELECTRICAL DETAILS

Sheet Number:

E501

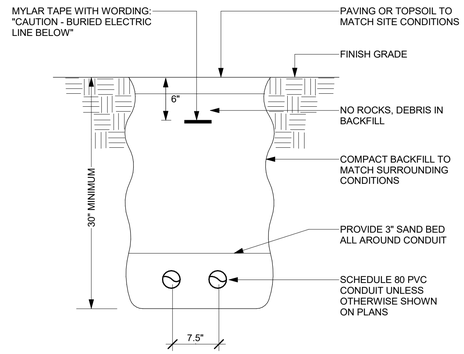


GENERAL DETAIL NOTES:

A. PROVIDE GREEN GROUND WIRE IN ALL RECEPTACLE CIRCUITS. CONNECT TO GROUND BUS IN PANEL.

B. DO NOT INSTALL RECEPTACLES, COMPUTER OR TELEPHONE OUTLETS BACK TO BACK. INSTALL IN ADJACENT STUD CAVITIES, TO REDUCE SOUND TRANSMISSION.

1 TYPICAL RECEPTACLE IDENTIFICATION REQUIREMENTS
NTS



DETAIL NOTES:

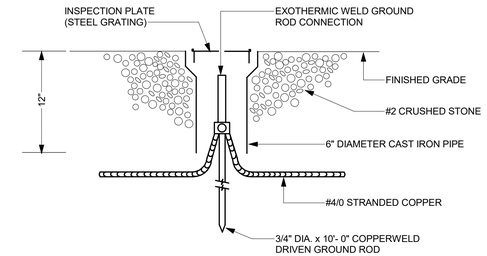
A. READ THE SPECIFICATIONS.

B. REPAIR ALL SETTLEMENT.

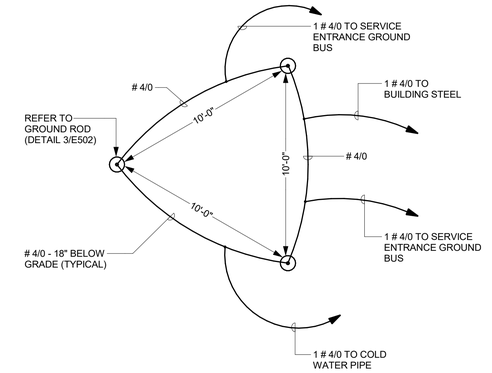
C. MINIMUM TOP SOIL - 6".

D. WHERE ADDITIONAL CONDUITS ARE REQUIRED, INCREASE TRENCH WIDTH AND INSTALL CONDUITS WITH 3" MINIMUM SPACING.

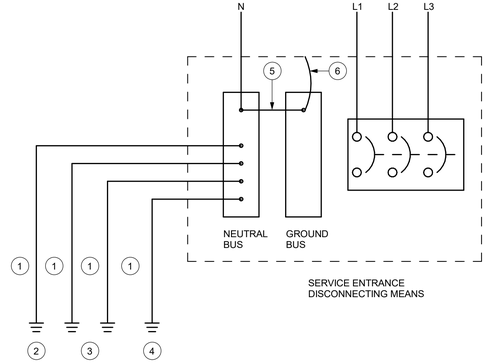
2 TYPICAL DIRECT BURIED CONDUIT DETAIL
NTS



3 TYPICAL GROUND ROD DETAIL
1/8" = 1'-0"



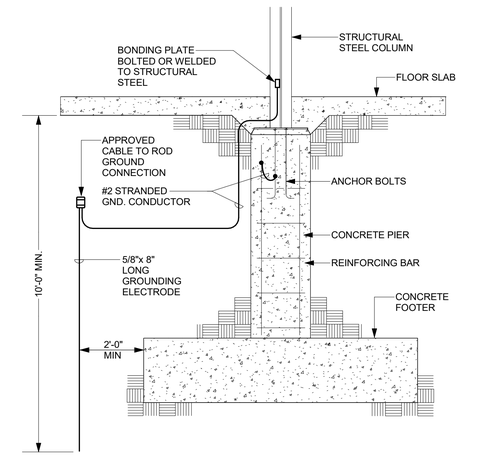
4 GROUNDING SYSTEM DETAIL
NTS



DETAIL NOTES:

1. GROUNDING ELECTRODE CONDUCTOR. PROVIDE INSULATED COPPER CONDUCTOR PER SPECIFICATIONS. IF NO SIZE IS SPECIFIED, PROVIDE INSULATED COPPER CONDUCTOR SIZED PER N.E.C., TABLE 250-66. INSTALL IN RIGID, SCHEDULE 40, PVC RACEWAY.
2. METAL UNDERGROUND WATER PIPE IN DIRECT CONTACT WITH EARTH FOR 10 FEET OR MORE. SHALL BE SUPPLEMENTED BY ITEMS 3 & 4.
3. BUILDING STRUCTURAL STEEL.
4. MADE GROUNDING ELECTRODE. REFER TO MADE GROUNDING ELECTRODE-GROUND GRID" DETAIL & SPECIFICATIONS.
5. MAIN BONDING JUMPER. PROVIDE INSULATED COPPER CONDUCTOR PER N.E.C. ARTICLE 250-28.
6. BOND GROUND BUS TO EQUIPMENT ENCLOSURE WITH BARE COPPER BONDING JUMPER PER N.E.C ARTICLE 250-28.

5 SERVICE ENTRANCE GROUNDING
NTS



6 STRUCTURAL STEEL GROUNDING DETAIL
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E502

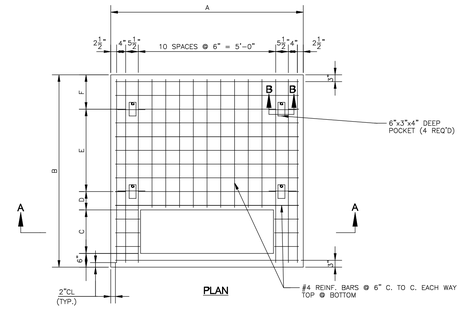
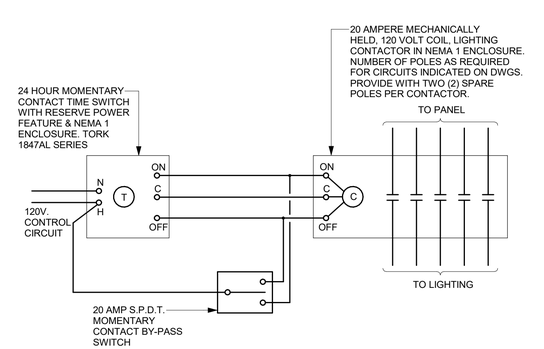


TABLE															
THREE PHASE TRANSFORMER		CONCRETE PAD TYPE OF INSTALLATION	DIMENSIONS (INCHES)											APPROX. VOLUME (CU YDS)	APPROX. PRECAST PAD WEIGHT (LBS)	
SIZE (KVA)	PRIMARY VOLTAGE		A	B	C	D	E	F	G	H	J	T	X		REINF.	PAD
75–500	4KV & 13KV	FIELD POURED	84	72	19	—	—	—	44	20	—	8 1/2	3	0.95	—	—
		PRECAST	84	72	19	8	30	9	44	20	12	7 1/2	2	0.84	212	3395

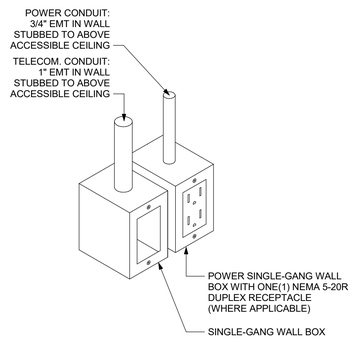
DETAIL GENERAL NOTES:

A. REINFORCING BARS SHALL BE WIRE TIED AT ALL CONTACT POINTS WITH PLASTIC COATED WIRE TIES.
B. ALL REINFORCING BARS SUPPORTED FROM FRAMEWORK SHALL REST ON COATED WIRE BAR SUPPORTS.
C. EPOXY COATING, DAMAGED AS A RESULT OF HANDLING OR CUTTING OF REINFORCING BARS, SHALL BE REPAIRED WITH PATCHING MATERIAL CONFORMING TO ASTM SPEC. DES A—775.
D. A 2" MINIMUM OF CONCRETE SHALL BE MAINTAINED OVER ALL REINFORCING BARS AND SHAPES, UNLESS OTHERWISE NOTED.
E. WHERE HORIZONTAL BARS ARE CUT FOR REPLACEMENT PURPOSES, SPLICE BARS OF THE SAME SIZE AND AT LEAST 2'— 6" LONG SHALL BE INSTALLED ACROSS THE CUT POSITION.
F. PAD SHALL BE INSTALLED ON A MINIMUM OF 6" CRUSHED STONE.
G. TOP SURFACE OF PAD SHALL HAVE A STEEL TROWEL FINISH.
H. TOP OF PAD SHALL BE 6" ABOVE GRADE.
I. OMIT LIFTING EYES, POCKETS AND DRAIN HOLES FROM FIELD— POURED PADS.
J. FOR PRECAST PADS, FILL LIFTING HOLES AND OPEN AREAS AROUND CONDUITS WITH MORTAR AFTER PAD IS INSTALLED.
K. CONCRETE SHALL CONFORM TO CON EDISON SPEC. EO— 1 008, CLASS II.
L. CEMENT MORTAR SHALL CONFORM TO CON EDISON SPEC. EO—1 00,167 (STK § 000—0802).
M. ALL REINFORCING BARS SHALL BE BILLET STEEL, DEFORMED, AND SHALL CONFORM TO ASTM SPEC. A—615, GRADE 60. ALL REINFORCING BARS SHALL BE EPOXY COATED AND SHALL CONFORM TO ASTM N. SPEC. A—775.
O. STRUCTURAL STEEL SHALL CONFORM TO ASTM SPEC. A—36.
P. WELD STRUCTURAL STEEL MEMBERS IN ACCORDANCE WITH EO—11320.

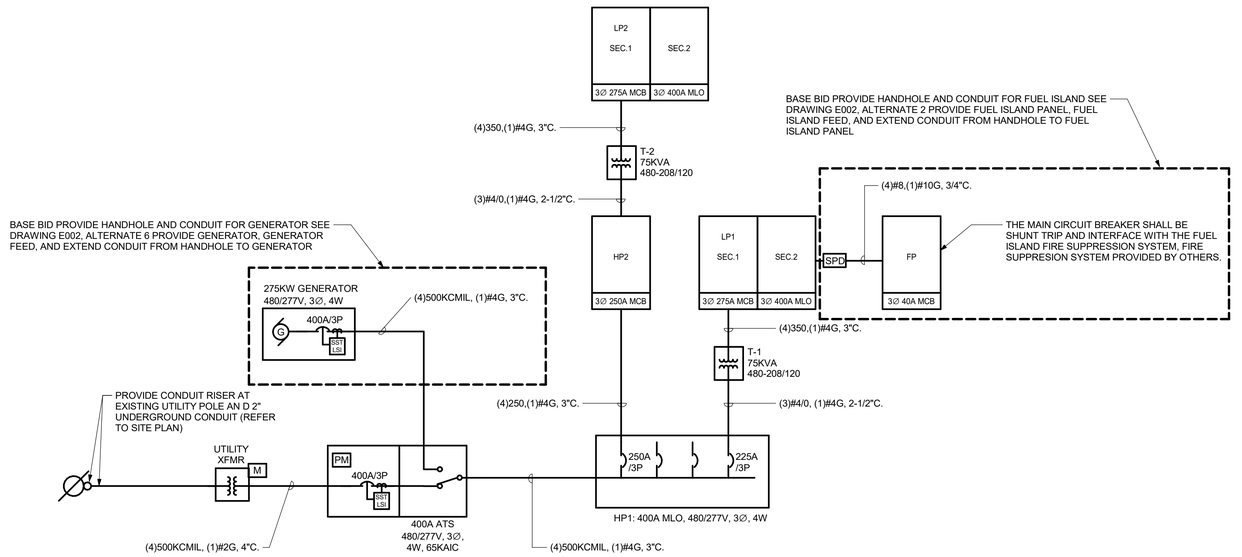
2 UTILITY TRANSFORMER PAD DETAIL
NTS



3 TYPICAL LIGHTING CONTROL SCHEMATIC
NTS



5 TYPICAL COMBINATION POWER & TELE/DATA OUTLET DETAIL
NTS



4 ELECTRICAL ONELINE DIAGRAM
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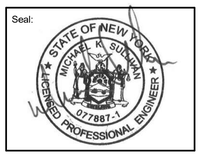

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ELECTRICAL DETAILS

Sheet Number:

E503

GARAGE EQUIPMENT ELECTRICAL CONNECTION SCHEDULE

KITCHEN EQUIPMENT DESIGNATION	DESCRIPTION	QTY.	LOAD			VOLTAGE	PHASE	PANEL	CIRCUIT BREAKER		BRANCH CIRCUIT WIRING			CONNECTION TYPE				DISC. SWITCH			NEMA TYPE
			HP	KW	AMPS				SIZE	GFI	PHASE	GND	CONDUIT	NEMA PLUG AND RECEPT	GFCI	RECPT. HEIGHT A.F.F.	HARD WIRED	SWITCH AMPS	FUSE SIZE	NEMA TYPE	
A-1	5 TON CRANE	1			13.9	480	3	HP2	35A/3P		(3)#4	(1)#8	1 1/4"				X	60A	NF	1	
B-1	4 POST MOBILE LIFT	1			5.2	120	1	LP2	20A/1P		(2)#12	(1)#12	3/4"	5-20	X	46"					
B-2	TWO POST LIFT	1	4			208	1	LP2	50A/2P		(2)#10	(1)#10	3/4"				X	60A	NF	1	
C-1	ELECTRICAL REEL	5		0.18		120	1	LP2	20A/1P		(2)#12	(1)#12	3/4"	5-20	X	CLNG					
C-4	OIL HIGH LEVEL ALARM	1		.007		120	1	LP2	20A/1P		(2)#12	(1)#12	3/4"				X				
C-7	WASTE ANTIFREEZE HIGH LVL ALARM	1		.007		120	1	LP2	20A/1P		(2)#12	(1)#12	3/4"				X				
C-9	DEF MOBILE CART W/ PUMP	1			2.8	120	1	LP2	20A/1P		(2)#12	(1)#12	3/4"	5-20	X	46"					
C-14	FLUID STORAGE ROOM SUMP ALARM	1		.007		120	1	LP2	20A/1P		(2)#12	(1)#12	3/4"				X				
D-3	ELECTRIC CHARGING STATION	1			15	120	1	LP2	20A/1P		(2)#12	(1)#12	3/4"	5-20	X	46"					
E-1	HYDRAULIC HOSE CRIMPING MACHINE	1	1.5			120	1	LP2	35A/1P		(2)#10	(1)#10	3/4"				X	30A	NF	1	
E-4	HYDRAULIC HOSE SAW	1	5			208	1	LP2	20A/2P	X	(2)#12	(1)#12	3/4"	6-20		46"					
F-1,4	MIG WELDER, PLASMA CUTTER	4			57, 52	208	1	LP2	50A/2P	X	(3)#6	(1)#10	1"	6-50		46"					
G-1	TIRE CHANGER	1			6	208	1	LP2	20A/2P	X	(2)#12	(1)#12	3/4"	L6-20		46"					
G-2	TIRE BALANCER	1			10	208	1	LP2	20A/2P	X	(2)#12	(1)#12	3/4"	L6-20		46"					
M-2	DRILL PRESS	1	1.5			120	1	LP2	20A/1P		(2)#12	(1)#12	3/4"	5-20	X	46"					
M-4	PARTS WASHER	1			1.4	120	1	LP2	20A/1P		(2)#12	(1)#12	3/4"	5-20	X	46"					
M-5	BENCH GRINDER	1			11	120	1	LP2	20A/1P		(2)#12	(1)#12	3/4"	5-20	X	46"					
M-6	BATTERY CHARGER	1				120	1	LP2	20A/1P		(2)#12	(1)#12	3/4"	5-20	X	46"					
M-11	AC RECHARGE MACHINE	1	3/8			120	1	LP2	20A/1P		(2)#12	(1)#12	3/4"	5-20	X	46"					
M-16	BENCH MOUNTED CHAINSAW SHARPENER	1			2.1	120	1	LP2	20A/1P		(2)#12	(1)#12	3/4"	5-20	X	46"					
V-1	VEHICLE WASH PRESSURE PLANT	1	7.5		25	460	3										X				
V-1A	CONTROL PANEL PRESSURE PUMP	1				120	1										X				
V-2	VEHICLE WASH - HOT WATER HEATER	1			1	120	1										X				
V-4	AUTOMATIC UNDERCARRIAGE PUMP SKID	1	40		70	460	3										X				
V-5	PHOTO EYES										-	-	3/4"								1
V-6	CONTROL PANELS										-	-	3/4"								1
V-11	TRAFFIC LIGHT										-	-	3/4"								1
V-13	UNDER CARRIAGE ACTIVATION LIGHT										-	-	3/4"								1
V-14	REMOTE ON/OFF SWITCH										-	-	3/4"								1
V-15	LOOP DETECTOR										-	-	3/4"								1

* = ASSUMED LOAD

REFERENCE NOTES:

1. PROVIDE EMPTY CONDUIT WITH PULL STRING UNDERNEATHSLAB FOR VEHICLE WASH SYSTEM INSTALLER. REFER TO FLOOR PLAN FOR INDICATED POINT-TO-POINT ROUTING. COORDINATE STUB-UP LOCATIONS IN THE FIELD WITH THE VEHICLE WASH SYSTEM INSTALLER.

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ELECTRICAL SCHEDULES

Sheet Number:

E701

ELECTRIC EQUIPMENT AND CONTROL SCHEDULE

GENERAL NOTES:

1. ALL STARTERS/DRIVES SHALL BE FURNISHED BY OTHERS & INSTALLED BY THE E.C.
2. UNLESS NOTED OTHERWISE, SAFETY SWITCHES SHALL BE FURNISHED & INSTALLED BY THE E.C.
3. COORDINATE LOCATION AND MOUNTING OF ALL STARTERS/DRIVES WITH THE M.C.
4. PROVIDE OVERLOADS, SIZE AS REQUIRED, BY THE DIVISION 23 CONTRACTOR.
5. ALL DEVICES SHALL BE SURFACE MOUNTED UNLESS OTHERWISE NOTED.
6. ITEM NUMBER INDICATES EQUIPMENT NUMBER
7. "AU" INDICATES CONTROL DEVICES IS LOCATED AT THE UNIT.
8. "NF" INDICATES NON-FUSED.
9. "IU" INDICATES INTEGRAL WITH UNIT.
10. "RE" INDICATES REMOTELY LOCATED; REFER TO PLAN VIEW.

EQUIPMENT								POWER SOURCE, PROTECTION & WIRING							NEMA DEVICE,TYPE AND CONTROLS												SAFETY SWITCH				REF. NOTES
ITEM ID	NAME	ROOM LOCATION	HP	KW	PHASE	SYSTEM VOLTS	MCA or SYSTEM AMPS	PANEL or CONTROL CENTER	CIRCUIT BREAKER or "FU" FOR FUSE	POWER WIRING FROM PANEL TO CONTROL UNIT			POWER WIRING FROM CONTROL UNIT TO EQUIPMENT			NEMA SIZE STARTER	NEMA ENCLOSURE	MANUAL MOTOR STARTER	MANUAL MOTOR STARTER W/ HAND-OFF-AUTO	COMBINATION MAGNETIC STARTER	ADJUSTABLE SPEED DRIVE	PACKAGED CONTROL UNIT FURNISHED BY OTHERS	FIRE ALARM FAN SHUTDOWN REQUIRED	RETURN DUCT SMOKE DETECTOR W/ REMOTE TEST STATION	THERMOSTAT CONNECTION	START/STOP PUSHBUTTONS	CONTROL DEVICE LOCATION	SWITCH AMPS	FUSE SIZE	LOC.	NEMA ENC.	
										PHASE	GROUND	CONDUIT	PHASE	GROUND	CONDUIT																	
AHU-01	AIR HANDLING UNIT	MEZZANINE 201			3	480	12.25	HP1	20A/3P	(3)#12	(1)#12	3/4"	-	-	-							X	X	X				30	NF	AU	1	
ACCU-01	AC UNIT	GRADE			3	480	34	HP1	45A/3P	(3)#8	(1)#10	3/4"	-	-	-							X						60	NF	AU	3R	
ACCU-107	AC UNIT	GRADE			1	208	19.6	LP1	30A/2P	(2)#10	(1)#10	3/4"	-	-	-							X						30	NF	AU	3R	
ACCU-121	AC UNIT	GRADE			1	208	13.4	LP-2	15A/2P	(2)#12	(1)#12	3/4"	-	-	-							X						30	NF	AU	3R	
B-01	BOILER	MEZZANINE 201			1	120	1.8	LP1	15A/1P	(2)#12	(1)#12	3/4"	-	-	-							X						30	NF	AU	1	
COMP-1	COMPRESSOR	COMPRESSOR ROOM 200A	15		3	480		HP2	60A/3P	(3)#10	(1)#10	3/4"	-	-	-							X						30	NF	AU	1	
DSF-118 A,B,C	DESTRATIFICATION FAN	VEHICLE STORAGE 118			1	277	0.23	HP1	15A/1P	(2)#12	(1)#12	3/4"	(2)#12	(1)#12	3/4"	0	1		X								RE					2
DSF-120 A,B	DESTRATIFICATION FAN	VEHICLE MAINTENANCE 120			1	277	0.23	HP2	15A/1P	(2)#12	(1)#12	3/4"	(2)#12	(1)#12	3/4"	0	1		X								RE					2
DSF-126	DESTRATIFICATION FAN	WASHBAY 126			1	277	0.23	HP2	15A/1P	(2)#12	(1)#12	3/4"	(2)#12	(1)#12	3/4"	0	1		X								RE					
EF-103	EXHAUST FAN	TOILET ROOM 103		0.017	1	120		LP1	15A/1P	(2)#12	(1)#12	3/4"	(2)#12	(1)#12	3/4"	0	1		X								AU					
EF-111	EXHAUST FAN	MENS LOCKER 111	1/6		1	208		LP1	15A/2P	(2)#12	(1)#12	3/4"	(2)#12	(1)#12	3/4"	0	1		X								AU					
EF-117	EXHAUST FAN	ELECTRICAL RM 117		0.017	1	120		LP1	15A/1P	(2)#12	(1)#12	3/4"	(2)#12	(1)#12	3/4"	0	1		X								AU					
EF-118A	EXHAUST FAN	MEZZANINE 202			3	208	16	LP1	25A/3P	(3)#10	(1)#10	3/4"	(3)#10	(1)#10	3/4"	0	1			X							AU					
EF-118B	EXHAUST FAN	MEZZANINE 202			3	208	16	LP1	25A/3P	(3)#10	(1)#10	3/4"	(3)#10	(1)#10	3/4"	0	1			X							AU					
EF-120	EXHAUST FAN	VEHICLE MAINTENANCE 120	2		3	208		LP-2	20A/3P	(3)#12	(1)#12	3/4"	(3)#12	(1)#12	3/4"	0	1			X							AU					
EF-123	EXHAUST FAN	TOILET ROOM 123		0.017	1	120		LP1	15A/1P	(2)#12	(1)#12	3/4"	(2)#12	(1)#12	3/4"	0	1		X								AU					
EF-124	EXHAUST FAN	FLUIDS 124	1/4		1	208		LP-2	15A/2P	(2)#12	(1)#12	3/4"	(2)#12	(1)#12	3/4"	0	1		X								AU					
EF-126	EXHAUST FAN	WASHBAY 126	1/2		3	208		LP-2	15A/3P	(3)#12	(1)#12	3/4"	(3)#12	(1)#12	3/4"	0	1			X							AU					
EF-200	EXHAUST FAN	COMPRESSOR ROOM 200A	1/4		1	120		LP-2	15A/1P	(2)#12	(1)#12	3/4"	(2)#12	(1)#12	3/4"	0	1		X								AU					
ERV-001	ENERGY RECOVERY UNIT	STORAGE 001			1	120		LP1	20A/1P	(2)#12	(1)#12	3/4"	-	-	-							X										1
ERV-116	ENERGY RECOVERY UNIT	SHOP 116			1	120		LP1	20A/1P	(2)#12	(1)#12	3/4"	-	-	-							X										1
ERV-118	ENERGY RECOVERY UNIT	MEZZANINE 201			1	208	7.7	LP1	20A/2P	(2)#12	(1)#12	3/4"	-	-	-							X						20	NF	AU	1	3
ERV-119	ENERGY RECOVERY UNIT	SHOP/STORAGE 119			1	120		LP1	20A/1P	(2)#12	(1)#12	3/4"	-	-	-							X										1
ERV-120	ENERGY RECOVERY UNIT	VEHICLE MAINTENANCE 120			1	208	4.9	LP-2	15A/2P	(2)#12	(1)#12	3/4"	-	-	-							X						20	NF	AU	1	3
ERV-122	ENERGY RECOVERY UNIT	PARTS STORAGE 122			1	120		LP-2	20A/1P	(2)#12	(1)#12	3/4"	-	-	-							X										1
ERV-126	ENERGY RECOVERY UNIT	WASHBAY 126			1	120		LP-2	20A/1P	(2)#12	(1)#12	3/4"	-	-	-							X										1
EUH-1	ELECTRIC UNIT HEATER				1	208	14.5A	LP-2	20A/2P	(2)#12	(1)#12	3/4"	(2)#12	(1)#12	3/4"	0	1		X								AU					
EUH-2	ELECTRIC UNIT HEATER	COMPRESSOR ROOM 200A			1	208	14.5A	LP-2	20A/2P	(2)#12	(1)#12	3/4"	(2)#12	(1)#12	3/4"	0	1		X								AU					
EWH-01	ELECTRIC WALL HEATER	VESTIBULE 100			1	208	9.6	LP1	15A/2P	(2)#12	(1)#12	3/4"	-	-	-							X								IU		
FCU-121	FAN COIL UNIT	MECH OFFICE 121			1	208	-	ACCU-121	-	-	-	-	(2)#12	(1)#12	3/4"							X						20	NF	AU	1	3
MS-107	MINI SPLIT SYSTEM	STORAGE/IT 107			1	208	-	ACCU-107	-	-	-	-	(2)#10	(1)#10	3/4"							X						20	NF	AU	1	3
RP-1	RECIRCULATION PUMP	MEZZANINE 201	1/2		1	208		LP1	15A/2P	(2)#12	(1)#12	3/4"	-	-	-							X						30	NF	AU	1	
UH-001	UNIT HEATER	STORAGE 001	1/15		1	208		LP1	15A/2P	(2)#12	(1)#12	3/4"	(2)#12	(1)#12	3/4"	0	1		X								AU					
UH-116	UNIT HEATER	SHOP 116	1/15		1	208		LP1	15A/2P	(2)#12	(1)#12	3/4"	(2)#12	(1)#12	3/4"	0	1		X								AU					
UH-118A	UNIT HEATER	VEHICLE STORAGE 118	1/15		1	208		LP1	15A/2P	(2)#12	(1)#12	3/4"	(2)#12	(1)#12	3/4"	0	1		X								AU					
UH-118B	UNIT HEATER	VEHICLE STORAGE 118	1/15		1	208		LP1	15A/2P	(2)#12	(1)#12	3/4"	(2)#12	(1)#12	3/4"	0	1		X								AU					
UH-118C	UNIT HEATER	VEHICLE STORAGE 118	1/6		1	208		LP1	15A/2P	(2)#12	(1)#12	3/4"	(2)#12	(1)#12	3/4"	0	1		X								AU					
UH-118D	UNIT HEATER	VEHICLE STORAGE 118	1/6		1	208		LP1	15A/2P	(2)#12	(1)#12	3/4"	(2)#12	(1)#12	3/4"	0	1		X								AU					
UH-118E	UNIT HEATER	MEZZANINE 202	1/6		1	208		LP1	15A/2P	(2)#12	(1)#12	3/4"	(2)#12	(1)#12	3/4"	0	1		X								AU					
UH-118F	UNIT HEATER	VEHICLE STORAGE 118	1/6		1	208		LP1	15A/2P	(2)#12	(1)#12	3/4"	(2)#12	(1)#12	3/4"	0	1		X								AU					
UH-119	UNIT HEATER	SHOP/ STORAGE 119	1/15		1	208		LP1	15A/2P	(2)#12	(1)#12	3/4"	(2)#12	(1)#12	3/4"	0	1		X								AU					
UH-120A	UNIT HEATER	VEHICLE MAINTENANCE 120	1/6		1	208		LP-2	15A/2P	(2)#12	(1)#12	3/4"	(2)#12	(1)#12	3/4"	0	1		X								AU					
UH-120B	UNIT HEATER	VEHICLE MAINTENANCE 120	1/6		1	208		LP-2	15A/2P	(2)#12	(1)#12	3/4"	(2)#12	(1)#12	3/4"	0	1		X								AU					
UH-120C	UNIT HEATER	VEHICLE MAINTENANCE 120	1/6		1	208		LP-2	15A/2P	(2)#12	(1)#12	3/4"	(2)#12	(1)#12	3/4"	0	1		X								AU					
UH-122	UNIT HEATER	PARTS STORAGE 122	1/15		1	208		LP-2	15A/2P	(2)#12	(1)#12	3/4"	(2)#12	(1)#12	3/4"	0	1		X								AU					
UH-126A	UNIT HEATER	WASHBAY 126	1/6		1	208		LP1	15A/2P	(2)#12	(1)#12	3/4"	(2)#12	(1)#12	3/4"	0	1		X								AU					
UH-126B	UNIT HEATER	WASHBAY 126	1/6		1	208		LP1	15A/2P	(2)#12	(1)#12	3/4"	(2)#12	(1)#12	3/4"	0	1		X								AU					
WH-1	WATER HEATER	MEZZANINE 201			1	120	5A	LP1	15A/1P	(2)#12	(1)#12	3/4"	-	-	-							X						20	NF	AU	1	3
WH-2	WATER HEATER	COMPRESSOR ROOM 200A			1	120	5A	LP-2	15A/1P	(2)#12	(1)#12	3/4"	-	-	-							X						20	NF	AU	1	3
	MONOXIVENT	VEHICLE MAINTENANCE 120			3	208		LP-2	20A/3P	(3)#12	(1)#12	3/4"																				
	DRYER	COMPRESSOR ROOM 200A			1	120	5.5A	LP-2	20A/1P	(2)#12	(1)#12	3/4"																				
	OVEREAD DOOR	VARIOUS			3	480	1.5A	HP1	20A/3P	(3)#12	(1)#12	3/4"	-	-	-							X						30	NF	AU	1	
	MOTORIZED GATE	GRADE	1/2		1	120		LP1 & LP-2	20A/1P	(2)#8	(1)#8	1"	-	-	-							X						30	NF	AU	3R	
	SAN PUMP PANEL	STORAGE 108	2		3	480		HP1	20A/3P	(3)#12	(1)#12	3/4"	-	-	-							X										

REFERENCE NOTES:

1. PROVIDE (1) DUPLEX RECEPTACLE AS POINT OF CONNECTION, ERV-126 SHALL HAVE A WEATHERPROOF GFI RECEPTACLE.
2. CIRCUIT ALL UNITS TOGETHER ON A SINGLE STARTER.
3. PROVIDE MOTOR-RATED TOGGLE SWITCH FOR UNIT DISCONNECTING MEANS.

Project:

VILLAGE OF ARDSLEY, NY

NEW PUBLIC WORKS FACILITY

220 HEATHERDELL ROAD,
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RHINEBECK ARCHITECTURE

Seal:

STATE OF NEW YORK · MICHAEL K. SUNDAY · 077887-1 · LICENSED PROFESSIONAL ENGINEER

Revisions:

Rev	Date	Description

Issued For: BID

PROJECT TRUE

SCALE: AS NOTED

Date: APRIL 7, 2022

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Reviewed By: SZE

Approved By: BAB

W&S Project No: N2190088

Drawing Title:

ELECTRICAL SCHEDULES

Sheet Number:

E702

PANELBOARD DIRECTORY

M/E PROJECT:	NEW PUBLIC WORKS FACILITY	PANEL NAME:	**HP1**			TYPE:	BRANCH
PROJECT NO.:	203050					MOUNTING:	Wall Mounted
FACILITY:		VOLTAGE:	480/277 Wye	L-L	PHASE: 3	OCP TYPE:	MLO
LOCATION:	ELECTRICAL RM. 117	AIC:	65	k	WIRE: 4	BUS RATING:	400 A
		SOURCE:				MCB RATING:	

CKT NO.	CIRCUIT DESCRIPTION	TRIP	POLE	A		B		C		POLE	TRIP	CIRCUIT DESCRIPTION	CKT NO.
1				3394.8	9422.4								2
3	AHU-01	20 A	3			3394.8	9422.4			3	20 A	ACCU-01	4
5								3394.8	9422.4				6
7				2909.8	21311.7								8
9	OVERHEAD DOORS	20 A	3			2909.8	21603.9			3	225 A	T1 (FEEDING LP1)	10
11								2909.8	23004.7				12
13				61719.1	191.1					1	15 A	DSF-118A,B,C	14
15	HP2	250 A	3			62376.7	3214			1	20 A	VEHICLE STORAGE LIGHTS	16
17								53000.2	4968	1	30 A	VEHICLE STORAGE LIGHTS	18
19	EXTERIOR LIGHTING	20 A	1	559.9	0					1	20 A	EXIT SIGNS	20
21	MEZZANINE LIGHTS	20 A	1			2185	1108.5			3	20 A	SAN PUMP PANEL	22
23	ADMIN LIGHTS	20 A	1					2957.4	1108.5				24
25	SPACE	--	--	0	1108.5								26
27	SPACE	--	--			0	0			--	--	SPACE	28
29	SPACE	--	--					0	0	--	--	SPACE	30
31	SPACE	--	--	0	0					--	--	SPACE	32
33	SPACE	--	--			0	0			--	--	SPACE	34
35	SPACE	--	--					0	0	--	--	SPACE	36
37	SPACE	--	--	0	0					--	--	SPACE	38
39	SPACE	--	--			0	0			--	--	SPACE	40
41	SPACE	--	--					0	0	--	--	SPACE	42

PANELBOARD DIRECTORY

M/E PROJECT:	NEW PUBLIC WORKS FACILITY	PANEL NAME:	**LP1**			TYPE:	BRANCH
PROJECT NO.:	203050					MOUNTING:	SURFACE
FACILITY:		VOLTAGE:	120/208 Wye	L-L	PHASE: 3	OCP TYPE:	MCB
LOCATION:	ELECTRICAL RM. 117	AIC:	10	k	WIRE: 4	BUS RATING:	400 A
		SOURCE:	T1			MCB RATING:	275 A

CKT NO.	CIRCUIT DESCRIPTION	TRIP	POLE	A		B		C		POLE	TRIP	CIRCUIT DESCRIPTION	CKT NO.
1	EF-117	15 A	1	16.8	180					1	20 A	REFRIGERATOR	2
3	EF-123	15 A	1			16.8	180			1	20 A	REFRIGERATOR	4
5	FACP	20 A	1					50	540	1	20 A	REC MEZZ 2	6
7	REC WATER RM, VEHICLE STOR	20 A	1	540	1295					1	20 A	REC CORR & KIT, UC LIGHTS	8
9	REC ELEC RM & SHOP 116	20 A	1			900	1176			1	20 A	FRONT GATE	10
11	REC MULTI PURPOSE RM	20 A	1					1080	1260	1	20 A	REC MULTI PURPOSE & STOR RM	12
13	REC DIRECTOR'S OFFICE	20 A	1	720	900					1	20 A	REC MULTI PURPOSE RM	14
15	REC EXT & SHOP/STOR	20 A	1			1260	1440			1	20 A	REC CORR	16
17	KITCHEN RANGE	50 A	2					4160	720	1	20 A	REC VEHICLE STOR	18
19				4160	1080					1	20 A	REC VEHICLE STOR	20
21	REC JAN, MEN, WOMEN'S	20 A	1			1440	509.6			2	15 A	ERV-120	22
23	REC MUSTER & KITCHEN	20 A	1					900	509.6				24
25	RP-1	15 A	2	582.4	720					1	20 A	REC IT	26
27						582.4	1080			1	20 A	REC WET AREA & VEHICLE STOR	28
29	REC MUSTER	20 A	1					900	1080	1	20 A	REC VEST, AST DIR, TLT RM	30
31				2113.6	2113.6								32
33	EF-118A	25 A	3			2113.6	2113.6			3	25 A	EF-118B	34
35								2113.6	2113.6				36
37	SPACE	--	--	0	0					1	20 A	SPARE	38
39	SPACE	--	--			0	0			1	20 A	SPARE	40
41	SPACE	--	--					0	0	1	20 A	SPARE	42

PANELBOARD DIRECTORY

M/E PROJECT:	NEW PUBLIC WORKS FACILITY	PANEL NAME:	**LP1**			TYPE:	BRANCH
PROJECT NO.:	203050					MOUNTING:	SURFACE
FACILITY:		VOLTAGE:	120/208 Wye	L-L	PHASE: 3	OCP TYPE:	MLO
LOCATION:	ELECTRICAL RM. 117	AIC:	10	k	WIRE: 4	BUS RATING:	400 A
		SOURCE:	LP1			MCB RATING:	

CKT NO.	CIRCUIT DESCRIPTION	TRIP	POLE	A		B		C		POLE	TRIP	CIRCUIT DESCRIPTION	CKT NO.
43	INVERTER	20 A	1	0	16.8					1	15 A	EF-103	44
45	EWC-A	20 A	1			180	720			1	20 A	REC RM 001 STORAGE	46
47	B-01	15 A	1					216	468	1	20 A	ERV-001, ERV-116, ERV-119	48
49	UH-001	15 A	2	124.8	600					1	15 A	WH-1	50
51						124.8	800.8			2	20 A	ERV-118	52
53								2900.4	800.8				54
55	FP	60 A	3	3336	660					1	20 A	DRYER	56
57						2640	2038.4			2	30 A	ACCU-107	58
59	UH-116	15 A	2					124.8	2038.4				60
61				124.8	998.4					2	15 A	EWH-01	62
63	UH-119	15 A	2			124.8	998.4						64
65								124.8	124.8	2	15 A	UH-118A	66
67	UH-118B	15 A	2	124.8	124.8								68
69						124.8	260			2	15 A	UH-118E	70
71	UH-118F	15 A	2					260	260				72
73				260	260					2	15 A	UH-118C	74
75	EF-111	15 A	2			260	260						76
77								260	0	--	--	SPACE	78
79	UH-118D	15 A	2	260	0					--	--	SPACE	80
81						260	0			--	--	SPACE	82
83	SPACE	--	--					0	0	--	--	SPACE	84

Project:

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MICHAEL K. SUSSMAN
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Revisions:

Rev	Date	Description

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PROJECT TRUE

SCALE: AS NOTED

Date: APRIL 7, 2022

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Reviewed By: SZE

Approved By: BAB

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Drawing Title:

ELECTRICAL SCHEDULES

Sheet Number:

E703

PANELBOARD DIRECTORY

M/E PROJECT:	NEW PUBLIC WORKS FACILITY	PANEL NAME:	**HP2**					TYPE:	BRANCH		
PROJECT NO.:	203050							MOUNTING:	SURFACE		
FACILITY:		VOLTAGE:	480/277 Wye	L-L	PHASE:	3		OCP TYPE:	MCB		
LOCATION:	MEZZ 1 200	AIC:	14	k	WIRE:	4		BUS RATING:	400 A		
		SOURCE:	HP1					MCB RATING:	225 A		

CKT NO.	CIRCUIT DESCRIPTION	TRIP	POLE	A		B		C		POLE	TRIP	CIRCUIT DESCRIPTION	CKT NO.
1				3879.8	1662.8								2
3	5 TON CRANE	35 A	3			3879.8	1662.8			3	20 A	OH DOORS VEHICLE MAINT 120	4
5								3879.8	1662.8				6
7				3048.4	23453								8
9	VEHICLE WASH PRESS PLANT	20 A	3			3048.4	28503.4			3	225 A	T2 (FEEDING LP2)	10
11								3048.4	19190.6				12
13				5819.7	19399								14
15	COMP-1	60 A	3			5819.7	19399			3	90 A	AUTO UNDERCARRIAGE PUMP SKID	16
17								5819.7	19399				18
19	DSF-120A,B	15 A	1	127.4	4329					1	20 A	VEHICLE MAINT/ WASHBAY LTG	20
21	DSF-126	15 A	1			63.7	0			--	--	SPACE	22
23	SPACE	--	--					0	0	--	--	SPACE	24
25	SPACE	--	--	0	0					--	--	SPACE	26
27	SPACE	--	--			0	0			--	--	SPACE	28
29	SPACE	--	--					0	0	--	--	SPACE	30
31	SPACE	--	--	0	0					--	--	SPACE	32
33	SPACE	--	--			0	0			--	--	SPACE	34
35	SPACE	--	--					0	0	--	--	SPACE	36
37	SPACE	--	--	0	0					--	--	SPACE	38
39	SPACE	--	--			0	0			--	--	SPACE	40
41	SPACE	--	--					0	0	--	--	SPACE	42

PANELBOARD DIRECTORY

M/E PROJECT:	NEW PUBLIC WORKS FACILITY	PANEL NAME:	**LP-2**					TYPE:	BRANCH		
PROJECT NO.:	203050							MOUNTING:	SURFACE		
FACILITY:		VOLTAGE:	120/208 Wye	L-L	PHASE:	3		OCP TYPE:	MCB		
LOCATION:	MEZZ 1 200	AIC:	10	k	WIRE:	4		BUS RATING:	400 A		
		SOURCE:	T2					MCB RATING:	275 A		

CKT NO.	CIRCUIT DESCRIPTION	TRIP	POLE	A		B		C		POLE	TRIP	CIRCUIT DESCRIPTION	CKT NO.
1	UH-122	15 A	2	124.8	312					1	20 A	ERV-126,122	2
3						124.8	168			1	20 A	PARTS WASHER	4
5	VEHICLE WASH HOT WATER HEATER	20 A	1					120	180	1	20 A	BATTERY CHARGER	6
7	CHAINSAW SHARPENER	20 A	1	252	624					1	20 A	4 POST MOBILE LIFT	8
9	DEF MOBILE CART W/ PUMP	20 A	1			336	720			1	20 A	GAS DETECTION SYSTEM	10
11	WH-2	15 A	1					600	696	1	15 A	EF-200	12
13	REC EXTERIOR	20 A	1	720	900					1	20 A	REC MEZZ 2A	14
15	REC WASHBAY EQP, FLUIDS, & TLT	20 A	1			1080	972			1	20 A	AC RECHARGE MACHINE	16
17	ELECTRICAL REEL	20 A	1					900	7.2	1	20 A	FLUID STORAGE SUMP ALARM	18
19	BACK GATE	20 A	1	1176	1800					1	20 A	CHARGING STATION	20
21	REC MECH OFF & PARTS STOR	20 A	1			1260	416			2	15 A	EF-124	22
23	DRILL PRESS	20 A	1					2300	416				24
25	HYDRAULIC HOSE CRIMPING...	40 A	1	2400	2912					2	50 A	TWO POST LIFT	26
27	HOSE SAW	20 A	1			6700	2912						28
29	TIRE CHANGER	20 A	2					624	1040	2	20 A	TIRE BALANCER	30
31				624	1040								32
33	WASTE ANTIFREEZE HIGH LVL ALARM	20 A	1			7.2	1320			1	20 A	BENCH GRINDER	34
35	SPACE	--	--					0	0	--	--	SPACE	36
37	SPACE	--	--	0	0					--	--	SPACE	38
39	SPACE	--	--			0	0			--	--	SPACE	40
41	SPACE	--	--					0	0	--	--	SPACE	42

PANELBOARD DIRECTORY

M/E PROJECT:	NEW PUBLIC WORKS FACILITY	PANEL NAME:	**LP-2**					TYPE:	BRANCH		
PROJECT NO.:	203050							MOUNTING:	SURFACE		
FACILITY:		VOLTAGE:	120/208 Wye	L-L	PHASE:	3		OCP TYPE:	MLO		
LOCATION:	MEZZ 1 200	AIC:	10	k	WIRE:	4		BUS RATING:	400 A		
		SOURCE:	LP-2					MCB RATING:			

CKT NO.	CIRCUIT DESCRIPTION	TRIP	POLE	A		B		C		POLE	TRIP	CIRCUIT DESCRIPTION	CKT NO.
43	OIL HIGH LEVEL ALARM	20 A	1	7.2	900					1	20 A	REC MEZZ 1	44
45	WELDER	50 A	2			5928	260			2	15 A	UH-120A	46
47								5928	260				48
49	REC VEHICLE MAINT	20 A	1	900	1393.6					2	20 A	VRF-121	50
51	UH-120C	15 A	2			260	1393.6						52
53								260	1508	2	20 A	EUH-2	54
55	EUH-1	20 A	2	1508	1508								56
57						1508	300.2			3	15 A	EF-126	58
59	EF-120	20 A	3					936.7	300.2				60
61				936.7	300.2								62
63						936.7	0			2	20 A	WELDER	64
65	MONOXIVENT	20 A	3					1200.9	0				66
67				1200.9	0					2	20 A	WELDER	68
69						1200.9	0						70
71	WELDER	20 A	2					0	1393.6	2	15 A	ACCU-121	72
73				0	1393.6								74
75	REC LIFT UTILITY	20 A	1			180	260			2	15 A	UH-120B	76
77	UH-126A	15 A	2					260	260				78
79				260	260					2	15 A	UH-126B	80
81	SPACE	--	--			0	260						82
83	SPACE	--	--					0	0	--	--	SPACE	84

PANELBOARD DIRECTORY

M/E PROJECT:	NEW PUBLIC WORKS FACILITY	PANEL NAME:	**FP**					TYPE:	BRANCH		
PROJECT NO.:	203050							MOUNTING:	SURFACE		
FACILITY:		VOLTAGE:	120/208 Wye	L-L	PHASE:	3		OCP TYPE:	MCB		
LOCATION:		AIC:	10	k	WIRE:	4		BUS RATING:	100 A		
		SOURCE:	LP1					MCB RATING:	40 A		

CKT NO.	CIRCUIT DESCRIPTION	TRIP	POLE	A		B		C		POLE	TRIP	CIRCUIT DESCRIPTION	CKT NO.
1	HEATER	20 A	1	500.4	600					1	20 A	FUEL ISLAND LIGHTS	2
3	GAS DISPENSER	20 A	1			1200	1656			1	25 A	GAS PUMP	4
5	DIESEL PUMP	40 A	1					2400	240	1	20 A	TANK MONITORING SYSTEM	6
7	FUEL MANAGEMENT UNIT	15 A	1	600	1200					1	20 A	DIESEL DISPENSER	8
9	GAS ANTI-SIPHON VALVE	20 A	1			240	240			1	20 A	DIESEL ANTI-SIPHON VALVE	10
11	SPARE	20 A	1					0	0	1	20 A	SPARE	12
13	SPARE	20 A	1	0	0					1	20 A	SPARE	14
15	SPARE	20 A	1			0	0			1	20 A	SPARE	16
17	SPACE	--	--					0	0	--	--	SPACE	18
19	SPACE	--	--	0	0					--	--	SPACE	20

LUMINAIRE SCHEDULE

TYPE	DESCRIPTION	MFR. & CATALOG No.	LAMP	VOLTAGE	MOUNTING	UNIT WATTS	REFERENCE NOTES
A1	2X4 RECESSED TROFFER WITH CURVED, RIBBED DIFFUSER	LITHONIA LIGHTING 2BLT2 SERIES	LED 3300 LUMENS 3500K	MVOLT	RECESSED	27W	1
A2	SAME AS A1 EXCEPT LUMENS AND WATTAGE	LITHONIA LIGHTING 2BLT2 SERIES	LED 5100 LUMENS 3500K	MVOLT	RECESSED	45W	1
B	6" RECESSED DOWNLIGHT WITH MEDIUM DISTRIBUTION, CLEAR REFLECTOR AND SEMI-SPECULAR FINISH	GOTHAM LIGHTING EVO SERIES	LED 2000 LUMENS 3500K	MVOLT	RECESSED	23W	1
C1	HIGHBAY FIXTURE WITH STANDARD EFFICIENCY, ACRYLIC FROSTED LENS, AND GENERAL DISTRIBUTION	LITHONIA LIGHTING IGB SERIES	LED 30000 LUMENS 3500K	MVOLT	SUSPENDED 25'-0" AFF	186W	
C2	SAME AS C1 EXCEPT LUMENS AND WATTAGE		LED 15000 LUMENS 3500K	MVOLT	SUSPENDED 25'-0" AFF	95W	
C3	4' HIGH PRESSURE HOSE DOWN FIXTURE WITH CLEAR LENS AND MEDIUM DISTRIBUTION	LITHONIA LIGHTING FHE SERIES	LED 28000 LUMENS 3500K	MVOLT	SUSPENDED 25'-0" AFF	173W	
D1	4' LED STRIP LIGHT	LITHONIA LIGHTING ZL1D SERIES	LED 5500 LUMENS 3500K	MVOLT	SUSPENDED 13'-0" AFF	41W	1
D2	8' LED STRIP LIGHT	LITHONIA LIGHTING ZL1D SERIES	LED 11000 LUMENS 3500K	MVOLT	SUSPENDED 13'-0" AFF	81W	1
E	2' LED STRIP	LITHIONIA LIGHTING WL2 SERIES	LED 800 LUMENS 3500K	MVOLT	WALL	8W	
F1	LED WALL PACK WITH T3M DISTRIBUTION AND PIRH LIGHT SENSOR	LITHONIA LIGHTING DSXW2 SERIES	LED 5500 LUMENS 4000K	MVOLT	WALL 14'-0" AFF	47W	
F2	LED WALL PACK WITH SR3 DISTRIBUTION, PIR LIGHT SENSOR, AND EMERGENCY BATTERY BACKUP	LITHONIA LIGHTING WSQ SERIES	LED 2000 LUMENS 4000K	MVOLT	WALL 8'-0" AFF	20W	1
G1	2' LINKABLE UNDER CABINET LIGHT	LITHONIA LIGHTING UCEL SERIES	LED 750 LUMENS 3000K	120V	SURFACE	10W	
G2	3' LINKABLE UNDER CABINET LIGHT	LITHONIA LIGHTING UCEL SERIES	LED 1200 LUMENS 3000K	120V	SURFACE	15W	
H	WALL MOUNT ARCHITECTURAL SIGN LIGHT, TYPE II LATERAL THROW, 12" STEM	COOPER LIGHTING EON 303 S1-LEDB1 SERIES	LED 568 LUMENS 4000K	MVOLT	SURFACE	8.5W	
I	WALL MOUNTD EXTERIOR FLOOD LIGHT	LITHONIA LIGHTING TFX1 SERIES	LED 7300 LUMENS 4000K	MVOLT	WALL	54W	
EM	LED HIGH BAY EMERGENCY LIGHT	SIGNTEX LIGHTING MHE SERIES	LED 6637 LUMENS 4700K	24VDC	SURFACE	40W	
⊗	EXIT SIGNS WITH WHITE HOUSING, STENCIL FACE, AND RED LETTERING	LITHONIA LQM SERIES	LED	MVOLT	CEILING		
⊗ WP	EXIT SIGNS WITH WHITE HOUSING, STENCIL FACE, AND RED LETTERING, WET LOCATION RATED	LITHONIA WLTE SERIES	LED	MVOLT	WALL		

REFERENCE NOTES:

1. PROVIDE INTEGRAL BATTERY BACKUP FO ALL FIXTURES TAGGED AS "EM" ON THE FLOOR PLANS

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Revisions:

Rev	Date	Description

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PROJECT TRUE

SCALE: AS NOTED

Date: APRIL 7, 2022

Drawn By: KML

Reviewed By: SZE

Approved By: BAB

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ELECTRICAL SCHEDULES

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