# HIGHLAND CENTRAL SCHOOL DISTRICT BUS GARAGE 2022 CAPITAL IMPROVEMENT PROJECT - PHASE 1

# **ISSUED FOR BID:** 08/18/23

**CSARCH** - ARCHITECTS PASSERO ASSOCIATES - SITE/CIVIL & STRUCTURAL ENGINEERS BLAKE ENGINEERING, PLLC - M.E.P. ENGINEERS QUALITY ENVIRONMENTAL SOLUTIONS & TECHNOLOGIES, INC. - HAZARDOUS MATERIALS DESIGNER

STATE EDUCATION DEPARTMENT PROJECT CONTROL NUMBER: BUS GARAGE 62-08-03-04-5-002-011 THE DESIGN OF THIS PROJECT CONFORMS TO APPLICABLE PROVISIONS OF THE NEW YORK STATE UNIFORM FIRE PREVENTION AND BUILDING CODE, THE NEW YORK STATE ENERGY CONSERVATION CONSTRUCTION CODE, AND THE MANUAL OF PLANNING STANDARDS OF THE NEW YORK STATE EDUCATION DEPARTMENT.

# CSArch PROJECT NO. 197-2201.01



**BUS GARAGE** 320 PANCAKE HOLLOW ROAD, HIGHLAND, NY 12528

NTS N



DRAWI	NG LIST
HIGHLAND B	US GARAGE (HBG)
GENERAL DRA	WINGS
HBG G000 HBG G001	COVER SYMBOLS, ABBREVIATIONS, KEY PLANS, AND MISC
STRUCTURAL I	DRAWINGS
HBG S001 HBG S101 HBG S501	GENERAL NOTES FOUNDATIONS/SLAB PLANS TYPICAL DETAILS
ARCHITECTUR	AL DRAWINGS
HBG A100	FIRST FLOOR PLANS AND DETAILS
PLUMBING GE	NERAL DRAWINGS
HBG P101	PLUMBING NOTES, LEGEND, SCHEDULE & DETAILS
PLUMBING DE	MOLITION DRAWINGS
HBG PD201	PLUMBING DEMOLITION PLAN
PLUMBING DR	AWINGS
HBG P201	PLUMBING PLAN
ELECTRICAL G	ENERAL DRAWINGS
HBG E101	ELECTRICAL NOTES, LEGEND & DETAILS
ELECTRICAL D	EMOLITION DRAWINGS
HBG ED201	ELECTRICAL DEMOLITION PLAN
ELECTRICAL DI	RAWINGS
HBG E201	ELECTRICAL PLAN







# ABBREVIATIONS

ABBREVIATION	DESCRIPTION
ADD	ADDENDUM
ADMIN AFF	ADMINISTRATIVE ABOVE FINISHED FLOOR
AV	AUDIO VISUAL
BLDG Bot or B/	BUILDING BOTTOM OF
BSMT	
DJ CL CL G / CL NG	CENTROL / CONSTRUCTION JOINT CENTERLINE CEILING
CLR CMU	CLEAR CONCRETE MASONRY UNIT
COL	COLUMN CONCRETE
CONF	CONFERENCE CONTINUOUS
COORD CORR	COORDINATE CORRIDOR
DEMO	DEMOLITION
	DIAMETER
DWG	DRAWING
ED EIFS	EDUCATION EXTERIOR INSULATION FINISH SYSTEM
ELECT EPDM	ELECTRIC / ELECTRICAL ETHYLENE PROPYLENE DIENE MONOMER
EQUIP EQUIP	EQUAL EQUIPMENT EXISTING
EJ EXT	EXISTING EXPANSION JOINT EXTERIOR
=IN	FINISH
FIN FL FIXT	FINISH FLOOR FIXTURE
-LR FRT FTC	FLOOR FIRE-RETARDENT-TREATED MATERIAL
GA	GAUGE
GAL GALV	GALLON GALVANIZE(D)
GC GND	GENERAL CONTRACT(OR) GROUND
GWB GWBS	GYPSUM WALL BOARD GYPSUM WALL BOARD SOFFIT
HC HM	HANDICAPPED ACCESSIBLE
HORIZ HR	HORIZONTAL HOUR
HT HTG	HEIGHT HEATING
HVAC	HEATING/VENTILATING/AIR CONDITIONING
D N	INSIDE DIMENSION INCH / INCHES
IAN	JANITOR
JC JST	JANITOR'S CLOSET JOIST
JT	JOINT
_AB _B	LABORATORY POUND
_IN _VL	LINEAR LEVEL
MAN	MANUAL MASONRY
MAX MDF	MAXIMUM MEDIUM DENSITY FIBERBOARD
MECH MEZZ	MECHANICAL MEZZANINE
MFR MID	MANUFACTURE(R) MIDDLE
MIN MISC	MINIMUM MISCELLANEOUS MASONBY ODENING
MTL	METAL
NA NIC	NOT APPLICABLE NOT IN CONTRACT
NOM NTS	NOMINAL NOT TO SCALE
AC	OVERALL
DC DD D/HD	
OPT OZ	OPTIONAL OUNCE
PERIM	PERIMETER
PLAM PLBG	PLASTIC LAMINATE PLUMBING
PLAS PLYWD PNI	PLASTER PLYWOOD
PNT POLYISO	PAINT(ED) POLYISOCYANURATE
PPT PR	PRESSURE PRESERVATIVE TREATED PAIR
PREP PTN	PREPARATORY PARTITION
RB REQD	RUBBER / RUBBER WALL BASE REQUIRED
RM RND	ROOM ROUND
20	
SCH SECT	SCHEDULED SECTION SOLIARE EEET
SIM SPEC	SIMILAR SPECIFICATION
SQ SS	SQUARE STAINLESS STEEL
STC STD	SOUND TRANSMISSION CLASS STANDARD
STOR STRUCT	STELL STORAGE STRUCTURAL / STRUCTURE
SUSP	SUSPENDED SUSPENDED ACOUSTICAL CEILING
T&B	TOP AND BOTTOM
I&G TECH TEMP	I UNGUE AND GROOVE TECHNOLOGY TEMPORARY
TMPD	TEMPERED TOP OF MASONRY
TOS TYP	TOP OF STEEL TYPICAL
JL	UNDERWRITERS LABORATORY
JNU	
/EST /IF	VENTIONE VESTIBULE VERIFY IN FIELD
N/	WITH
N/O ND	WITHOUT WOOD
NPT NT	WOOD PRESERVED-TREATED MATERIAL WEIGHT
YD	YARD

<u>ARCHITE</u>	<u>CTURAL LEGEND</u>	-
MATERIAL INC	DICATIONS	
	EARTH	
	GRANULAR FILL	
	BRICK	
	GROUT	
	ROUGH WOOD BLOCKING	
	SHIM	
	FINISH WOOD	
	PLYWOOD	
	SHEATHING	
	RIGID INSULATION	
	EPS INSULATION	
	STEEL	
DIMENSIONIN	G	
	S FACE OF STUD OR CMU	
• • •	COLUMN CENTER LINE	
SYMBOL		
S CLASSROOM	ROOM NAME	
M 100 000		
S.F	DOOR NUMBER, REFER TO A900 DF	RAWINGS
$\langle 1 \rangle$	WINDOW TAG, REFER TO A900 DRA	WINGS
(BL1) 1	BORROWED LIGHT NUMBER, REFEI DRAWINGS	R TO A900
S1	STOREFRONT / CURTAINWALL NUN REFER TO A900 DRAWINGS	IBER,
	COLUMN GRID DESIGNATION	
	PARTITION TAG, REFER TO A700 DF HOUR RATING OF PARTITION	RAWINGS
	ADDITIONAL NOTES FOR PARTITION	N
$\overline{)}$	KEY NOTE, NEW WORK	
$\langle 1 \rangle$	KEY NOTE, DEMOLITION WORK	
+0'-0"	ELEVATION TAG	
Ê	HANDICAPPED ACCESSIBLE ELEMENT OR FIXTURE	
WALL FINISH BASE FINISH	INTERIOR FINISH TAG REFER	
FLOOR FINISH CEILING FINISH	TO AF100 DRAWINGS	
DETAIL	INDICATOR	
LEGEND	)	
SECTION		
INDICATOR		-SECTION NUMBER
DRAWING SHEET N		-
SECTION IS DRAWN	1 ON •	-DIRECTION OF VIEW
	ATOR	-SECTION NUMBER
(SECTION)	1	_
DRAWING SHEET N SECTION IS DRAWI	UMBER	- DIRECTION OF VIEW
<u>ENLARGED D</u> INDICATOR	ETAIL	
DRAWING AREA		- DETAIL NUMBER
REQUIRING DETAIL		
	`	- DRAWING SHEET NUMBER DETAIL IS DRAWN ON
<u>DETAIL</u> DetaiEnumber -		- DETAIL TYPE / NAME
	A100 PLAN	<u> </u>
DRAWING SHEET N		SCALE
EXTERIOR EL	<u>EVATION</u>	- ELEVATION NUMBER
DIRECTION OF VIE		
DRAWING SHEET N DETAIL IS DRAWN (	IUMBER	
INTERIOR ELI		
BLANK ARROW IND ELEVATIONS NOT D	DETAILED	ELEVATION NUMBER
	XA	

- DIRECTION OF VIEWS



# GENERAL NOTES:

- 1. ALL STRUCTURAL DRAWINGS SHALL BE USED IN CONJUNCTION WITH THE ARCHITECTURAL. MECHANICAL, ELECTRICAL, HVAC, AND PLUMBING DRAWINGS AND SPECIFICATIONS.
- 2. THE CONTRACTOR(S) SHALL VERIFY ALL EXISTING CONDITIONS, DIMENSIONS, ELEVATIONS, ETC. IN THE FIELD AND NOTIFY THE OWNER'S REPRESENTATIVE OF ANY DISCREPANCIES PRIOR TO THE START
- OF CONSTRUCTION OR SHOP DRAWINGS. 3. THE DRAWINGS ARE INTENDED TO REQUIRE AND TO INCLUDE ALL LABOR, MATERIAL AND EQUIPMENT PROPER FOR THE WORK.
- 4. ALL WORK SHALL COMPLY WITH ALL LOCAL, STATE AND NATIONAL CODES AND REQUIREMENTS. 5. THE CONTRACTOR SHALL BE HELD RESPONSIBLE FOR CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES, AND SAFETY PROCEDURES. THE ARCHITECT/ENGINEER SHALL NOT BE RESPONSIBLE FOR THE ACTS OR OMISSIONS OF THE CONTRACTOR, SUBCONTRACTORS OR THEIR
- AGENTS OR EMPLOYEES OR ANY OTHER PERSONS PERFORMING ANY OF THE WORK. 6. OBSERVE ALL OSHA AND OTHER APPLICABLE SAFETY REQUIREMENTS INCLUDING THE USE OF SAFETY GLASSES, HARD HATS, AND PROTECTION OF AREA WHEN WORKING OVERHEAD. THE CONTRACTOR SHALL ASSUME RESPONSIBILITY FOR CONSTRUCTION SAFETY AT ALL TIMES.
- 7. COORDINATE WORK OF ALL DISCIPLINES (STRUCT., ARCH., MECH., ELECT., ETC.) WITH EXISTING CONDITIONS, SPECIAL REQUIREMENTS, CONSTRUCTION SCHEDULE AND OTHER CONTRACTORS PERFORMING WORK AT THE SITE.
- 8. ALL TEMPORARY SHORING SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. THE CONTRACTOR SHALL DESIGN AND PROVIDE ANY TEMPORARY SHORING, BRACING, ETC., AS NEEDED FOR THE WORK SO AS NOT TO ENDANGER THE STRUCTURAL INTEGRITY OF ANY EXISTING FEATURE. 9. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO REPAIR ANY DAMAGE DONE TO EXISTING FEATURES AS A RESULT OF THIS WORK. DAMAGED ITEMS SHALL BE REPLACED IN KIND AND AT NO
- ADDITIONAL COST TO THE OWNER. 10. DO NOT SCALE DRAWINGS. THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND LAYOUT PRIOR TO CONSTRUCTION. ALL DIMENSIONS ON STRUCTURAL DRAWINGS SHALL BE CHECKED AGAINST ARCHITECTURAL, MECHANICAL, ELECTRICAL, PLUMBING, AND CIVIL DRAWINGS AND ANY DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE OWNER'S REPRESENTATIVE. IMMEDIATELY. SEE THE ARCHITECTURAL DRAWINGS FOR ALL DIMENSIONS NOT SHOWN ON THE STRUCTURAL DRAWINGS. REFER TO MECHANICAL, ELECTRICAL, AND ARCHITECTURAL DRAWINGS FOR OPENINGS NOT SHOWN ON STRUCTURAL DRAWINGS. CHANGES AFFECTING THE LAYOUT SHOWN MUST BE SPECIFIC AND CLEARLY CONVEYED TO THE OWNER'S REPRESENTATIVE IN WRITTEN
- FORM AS A CHANGE FOR INCLUSION INTO THESE PLANS. 11. SHOP DRAWINGS: REPRODUCTION OF DESIGN DRAWINGS SHALL NOT BE PERMITTED FOR SHOP DRAWING SUBMISSIONS. THE GENERAL CONTRACTOR/CONSTRUCTION MANAGER SHALL REVIEW AND PROVIDE REVIEW STAMP ON SHOP DRAWING SUBMISSIONS PRIOR TO SUBMITTAL TO ARCHITECT/ENGINEER INDICATING UNDERSTANDING AND ACCEPTANCE OF SUBMITTAL AND CONFIRMING CONFORMANCE TO PROJECT PLANS/SPECIFICATIONS.
- 12. IT IS SOLELY THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE THE ERECTION PROCEDURE AND SEQUENCE TO INSURE THE SAFETY OF THE BUILDING AND ITS COMPONENT PARTS DURING ERECTION. THIS INCLUDES, BUT IS NOT LIMITED TO, THE ADDITION OF WHATEVER TEMPORARY BRACING, GUYS OR TIE-DOWNS MAY BE NECESSARY.
- 13. EQUIPMENT FRAMING LOADS, OPENINGS AND STRUCTURE IN ANY WAY RELATED TO HVAC, PLUMBING, PROCESS OR ELECTRICAL REQUIREMENTS ARE SHOWN FOR BIDDING PURPOSES ONLY. CONTRACTOR SHALL OBTAIN APPROVAL OF THE PERTINENT TRADES BEFORE PROCEEDING WITH SUCH PORTION OF THE WORK. EXCESS COST RELATED TO VARIATION IN THESE REQUIREMENTS SHALL BE BORNE BY THE APPROPRIATE CONTRACTOR.

# **FOUNDATION NOTES**

- 1. NO GEOTECHNICAL REPORT HAS BEEN COMPLETED AT THE TIME OF DESIGN. AN ASSUMED BEARING PRESSURE OF 2,000 PSF WAS USED TO COMPLETE THE FOUNDATION DESIGN. A HIGH WATER TABLE IS KNOWN IN THE AREA AND WAS ASSUMED TO BE AT AN ELEVATION OF 2 FEET BELOW THE TOP OF SLAB ON GRADE DURING THE FOUNDATION DESIGN. A GEOTECHNICAL INVESTIGATION AND REPORT
- SHALL BE ISSUED PRIOR TO BIDDING DOCUMENTS TO CONFIRM THESE ASSUMPTIONS. 2. THE VEHICLE LIFT FOUNDATION DESIGN AND LAYOUT SHOWN IS FOR A BASIS OF DESIGN USING THE STERTIL-KONI DIAMOND LIFT WITH 17' TRAVEL DISTANCE. COORDINATE WITH THE MANUFACTURER
- AND FINAL LIFT SELECTION WILL BE REQUIRED PRIOR TO ISSUING CONSTRUCTION DOCUMENTS. 3. A GEOTECHNICAL ENGINEER SHALL OBSERVE THE OPEN EXCAVATION TO DETERMINE THAT THE SOIL TYPE AND CONDITIONS ARE CONSISTENT WITH DESIGN CRITERIA OF THE SOIL REPORT. IF THE SOIL
- PROPERTIES ARE FOUND TO BE DIFFERENT FROM THIS CRITERIA THE OWNER'S REPRESENTATIVE SHALL BE PROMPTLY NOTIFIED SO THAT THE FOUNDATION DESIGN MAY BE REVIEWED. 4. NO FOUNDATION CONCRETE SHALL BE INSTALLED UNTIL ALL FOUNDATION WORK HAS BEEN COORDINATED WITH UNDERGROUND UTILITIES. FOOTINGS SHALL BE LOWERED WHERE REQUIRED TO
- AVOID UTILITIES. WHERE FOOTINGS ARE REQUIRED TO BE LOWERED MORE THAN 1 FOOT, NOTIFY THE ENGINEER OF RECORD. 5. TO MINIMIZE WEATHERING, THE LAST 6 INCHES OF EXCAVATION FOR ALL FOOTINGS SHALL BE MADE
- IMMEDIATELY PRIOR TO PLACEMENT OF FOOTINGS. 6. WHERE ROCK OUTCROPPINGS ARE ENCOUNTERED IN ANY FOOTING EXCAVATION, UNDERCUT TO A DEPTH OF NOT LESS THAN 6 INCHES BELOW ELEVATION OF BOTTOM OF FOOTING AND BACKFILL WITH THOROUGHLY COMPACTED #10 FINES.
- 7. UNLESS OTHERWISE SHOWN, THE CENTERLINES OF ALL PIERS AND COLUMN FOOTINGS SHALL BE LOCATED ON COLUMN CENTERLINES.

OCATION		HI	GHLAND, NY	
OWNER		HIGHLAND CE	NTRAL SCHOOL DISTRIC	T
esign professional in	N CHARGE	Patrick	J. Williams, PE, SE	
This statement of Special of the applicable buildin coordinator and the ider encompasses the follow he Building Official and he contractor for correc Special Inspection progr	I Inspections is submitten ng code. It includes a so ntity of other approved ing disciplines: STRUCTL the Registered Design ction. If such discrepand am does not relieve the ubmitted to the Building	ed as a condition for permit issuance chedule of Special Inspection service agencies to be retained for conduc IRAL. The Special Inspection Coordin Professional in Responsible Charge (R cies are not corrected, the discrepan e contractor of his or her responsibility a Official and the RDP, monthly.	in accordance with the Spec s applicable to this project of ting these inspections and te ator shall keep records of all DP). Discovered discrepanci icies shall be brought to the / for quality assurance.	cial Inspection and Structural Testing requirements as well as the name of the Special Inspection ests. This Statement of Special Inspections inspections and shall furnish inspection reports to es shall be brought to the immediate attention of attention of the Building Official and the RDP. The
v Final Report of Special Aspections shall be subr	I Inspections document nitted by the special In	ing completion of all required Specie spection Coordinator prior to issuanc	al Inspections, testing, and co e of a Certificate of Use and	prrection of any discrepancies noted in the Occupancy.
Iob site safety and mea	ns and methods of con	struction are solely the responsibility (	of the contractor	
n accordance with the	applicable building as	do the Observations and Imposition	clisted in the Schedule of Sc	acial lashactions are required
	applicable building co	de, the Observations and Inspection	s listed in the schedule of sp	ecial inspections are required.
SCHEDULE OF II	NSPECTION AN	ID TESTING AGENCIES		
SPECIAL INSPECTIC	ON AGENCIES	FIRM	ADDRESS	TEI EPHONE NO
Special Inspection	Coordinator	TBD	TBD	(###) ###-####
Inspectors and	or d testing agencies shall	TBD       be engaged by the Owner or the Ov	TBD wner's Agent in accordance	(###) ###-#### with the applicable building code, and not by th
Note: The inspectors and Contractor or Subcontra esponsible for the work conflicts of interest so the	or d testing agencies shall actor whose work is to b being inspected. The a at objectivity can be co <b>CONTRACTOR</b>	TBD be engaged by the Owner or the Ov e inspected or tested. An approved gency shall also disclose to the build onfirmed.	TBD wner's Agent in accordance agency shall be objective, c ing official and the registered	(###) ###-#### with the applicable building code, and not by th competent and independent from the contractor d design professional in responsible charge possib
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AMERICAN WELDING SOCIETY (AWS) CERTIFICATION

INTERNATIONAL CODE COUNCIL (ICC) CERTIFICATION

NATIONAL INSTITUTE FOR CERTIFICATION IN ENGINEERING TECHNOLOGIES (NICET)

# **CONCRETE NOTES**

- 1. COMPLY WITH THE FOLLOWING CODES AND STANDARDS: A. ACI 301 "SPECIFICATIONS FOR STRUCTURAL CONCRETE FOR BUILDINGS". B. ACI 305, ACI 306, ACI 318, "BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE". C. ACI DETAILING MANUAL (ACI SP-66-04). D. ACI 347 "RECOMMENDED PRACTICE FOR CONCRETE FORM WORK". E. CONCRETE REINFORCING STEEL INSTITUTE (CRSI), "MANUAL OF STANDARD PRACTICE".
- CONCRETE". 2. MATERIALS: A. REINFORCING BARS - ASTM A615, GRADE 60, DEFORMED B. WELDED WIRE FABRIC (WWF) - ASTM A185, FLAT SHEETS.
- C. PORTLAND CEMENT-ASTM C150, TYPE II. D. AGGREGATES-ASTM C33. E. AIR ENTRAINING ADMIXTURE-ASTM C260, CERTIFIED BY MANUFACTURER TO BE COMPATIBLE WITH OTHER REQUIRED ADMIXTURES.
- MORE THAN 0.1% CHLORIDE IONS ARE NOT PERMITTED.
- REINFORCEMENT WILL NOT BE PERMITTED. 4. UNLESS OTHERWISE SHOWN, BARS AT WALL AND CONTINUOUS FOOTING CORNERS AND
- OTHERWISE.
- 5. PROVIDE DOWELS TO MATCH REINFORCEMENT SIZE AND SPACING INDICATED FOR ALL STRUCTURAL CONCRETE PLACEMENT ("WET STICKING" REINFORCING NOT PERMITTED").
- OR RELOCATED IF PROPERLY DETAILED ON SHOP DRAWINGS AND APPROVED BY THE OWNER'S REPRESENTATIVE.
- SUPPORT OF REINFORCEMENT ON FORM TIES, WOOD, BRICK, BRICKBAT OR OTHER UNACCEPTABLE MATERIAL, WILL NOT BE PERMITTED.
- 10. IN SLABS-ON-GRADE, PROVIDE 2 #4X4' 0" DIAGONAL BARS IN THE MIDDLE OF THE SLAB AT EACH CORNER OF OPENINGS OVER 1'0" SQUARE AND AT RE-ENTRANT CORNERS.
- CONTRACTION JOINTS, CONSTRUCTION JOINTS, OR EXPANSION JOINTS. 12. CONCRETE WALLS SHALL BE TEMPORARILY BRACED AGAINST EARTH PRESSURE AND OTHER FORCES
- 13. PROVIDE WATERSTOPS IN ALL CONSTRUCTION JOINTS AT OR BELOW GRADE. SHALL BE LOCATED AT THE MID-SPAN OF BEAMS, SLABS AND WALLS AND SHALL BE SUBJECT TO
- 16. CHAMFER EDGES OF PERMANENTLY EXPOSED CONCRETE SURFACES 3/4-INCH, UNO.
- EVIDENCE OF DAMAGE TO THE CONCRETE.

ACI-STT

AWS-CWI

aws/aisc-ssi

ICC-SMSI

ICC-SWSI

ICC-SFSI ICC-PCSI

ICC-RCSI

NICET-CT

NICET-ST NICET-GET Strength Testing Technician

Certified Welding Inspector

Certified Structural Steel Inspector

Structural Masonry Special Inspector

Prestressed Concrete Special Inspector

Reinforced Concrete Special Inspector

Concrete Technician - Levels I, II, III, & IV

Geotechnical Engineering Technician - Levels I, II, III & IV

Soil Technicians - Levels I, II, III & IV

Structural Steel and Welding Special Inspector

Spray-Applied Fireproofing Special Inspector

F. ACI 304 "RECOMMENDED PRACTICE FOR MEASURING, MIXING, TRANSPORTING AND PLACING

F. PROHIBITED ADMIXTURES-CALCIUM CHLORIDE THYOCYANATES OR ADMIXTURES CONTAINING 3. CONTINUOUS REINFORCING IN WALLS AND SLABS MAY BE SPLICED, AS REQUIRED, PROVIDING BARS ARE OF THE LONGEST PRACTICABLE LENGTH AND SPLICES ARE SHOWN ON REINFORCING SHOP DRAWINGS. WHEREVER POSSIBLE, SPLICES SHALL BE STAGGERED. FIELD CUTTING OF

INTERSECTIONS SHALL BE DETAILED AS SHOWN ON FIGURE 15 OF ACI SP-66-04. CORNER BARS SHALL BE DETAILED AS SHOWN FOR OUTSIDE LOADED ONLY CORNERS. INTERSECTIONS SHALL BE DETAILED WITHOUT DIAGONAL BARS. ALL END HOOKS SHALL BE STANDARD 90 DEGREE END HOOKS AND CORNER BARS SHALL BE 48 BAR DIAMETERS X 48 BAR DIAMETERS MINIMUM UNLESS NOTED

ELEMENTS, UNLESS OTHERWISE INDICATED. DOWELS MUST BE PLACED AND SECURED PRIOR TO 6. MAJOR CONSTRUCTION JOINTS ARE SHOWN ON THE DRAWINGS. INTERMEDIATE JOINTS IN WALLS, SLABS, AND FLOOR FRAMING ARE NOT SHOWN. CONSTRUCTION JOINTS MAY BE ADDED, OMITTED

7. SEE ARCHITECTURAL AND MECHANICAL DRAWINGS FOR LOCATIONS OF OPENINGS AND SLEEVES IN CONCRETE WALLS AND SUPPORTED FLOORS. SPREAD REINFORCEMENT AT OPENINGS AND SLEEVES UNLESS OTHERWISE SHOWN. DO NOT CUT REINFORCEMENT. SEE TYPICAL REINFORCEMENT DETAILS FOR OPENINGS IN SLABS AND WALLS FOR ADDITIONAL REQUIREMENTS. 8. PLACING OF REINFORCEMENT: PROVIDE CHAIRS, BOLSTERS, ADDITIONAL REINFORCEMENT, AND ACCESSORIES NECESSARY TO SUPPORT REINFORCEMENT AT POSITION SHOWN ON DRAWINGS.

9. THE CONTRACTOR SHALL REVIEW ALL DRAWINGS FOR SIZE AND LOCATION OF ALL EMBEDDED ITEMS, SLEEVES, SLAB DEPRESSIONS, OPENINGS, ETC. REQUIRED BY OTHER TRADES. RECONCILE THEIR EXACT SIZES AND LOCATIONS BEFORE PROCEEDING WITH THE WORK. ALL ITEMS SHALL BE FURNISHED AND INSTALLED PRIOR TO PLACEMENT OF CONCRETE. SECURE THE APPROVAL OF THE OWNER'S REPRESENTATIVE PRIOR TO PLACING OPENINGS NOT SHOWN ON THE STRUCTURAL DRAWINGS

11. PROVIDE CONTROL JOINTS IN CAST-IN-PLACE CONCRETE SLABS-ON-GRADE AT 12 FEET O.C. MAX. LOCATE CONTROL JOINTS TO FORM APPROXIMATE SQUARE PANELS WITH THE LENGTH OF ONE SIDE NOT EXCEEDING THE ADJACENT SIDE BY A FACTOR OF 1.5. CONTROL JOINTS MAY BE

UNTIL FLOOR SLABS ARE IN PLACE AND HAVE ATTAINED REQUIRED STRENGTHS. 14. PROVIDE WATERSTOPS IN EXPANSION JOINTS AND CONSTRUCTION JOINTS OF LIQUID CONTAINING STRUCTURES AND WHERE REQUIRED TO PREVENT INFILTRATION OF GROUND WATER. 15. WHERE CONSTRUCTION JOINTS ARE REQUIRED BUT ARE NOT INDICATED ON THE DRAWINGS, THEY

REVIEW BY THE OWNER'S REPRESENTATIVE. UNLESS NOTED OTHERWISE OR SHOWN ON THE DRAWINGS, AT CONCRETE SLABS ON STEEL DECK, SUPPORTED BY STEEL BEAMS AND GIRDERS, CONSTRUCTION JOINTS SHALL BE PLACED AT MID-SPAN OF DECK AND MID-WAY BETWEEN GIRDERS 17. SLABS AND BEAMS OR JOISTS SHALL BE CAST MONOLITHICALLY UNLESS OTHERWISE INDICATED. 18. THE CONTRACTOR IS RESPONSIBLE FOR DETERMINING WHEN IT IS SAFE TO REMOVE FORMS AND/OR SHORING. FORMS AND SHORING MUST NOT BE REMOVED UNTIL THE CONCRETE IS STRONG ENOUGH TO CARRY ITS OWN WEIGHT AND ANY ANTICIPATED SUPERIMPOSED LOADS. WHEN FORMS ARE STRIPPED THERE MUST BE NO EXCESSIVE DEFLECTION, DISTORTION, DISCOLORATION, AND NO

# **RENOVATION AND EXISTING STRUCTURE NOTES:**

1. THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS, ELEVATIONS, ETC., NECESSARY FOR THE PROPER CONSTRUCTION AND ALIGNMENT OF THE NEW PORTIONS OF THE STRUCTURE TO THE EXISTING STRUCTURE. THE CONTRACTOR SHALL VERIFY ALL MEASUREMENTS NECESSARY FOR PROPER FABRICATION AND ERECTION OF ALL STRUCTURAL MEMBERS. THE CONTRACTOR SHALL SUPPORT, BRACE AND SECURE EXISTING STRUCTURES AS REQUIRED. THE CONTRACTOR IS SOLELY RESPONSIBLE

- FOR THE SAFETY OF EXISTING STRUCTURES DURING CONSTRUCTION. 2. BEFORE PROCEEDING WITH ANY WORK WITHIN OR ADJACENT TO THE EXISTING STRUCTURE, THE CONTRACTOR SHALL BECOME FAMILIAR WITH EXISTING CONDITIONS. DURING THE PROCESS OF CONSTRUCTION, IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO MAINTAIN THE INTEGRITY OF THE EXISTING STRUCTURE WHERE THE EXISTING STRUCTURE IS MODIFIED TO ACCOMMODATE NEW CONSTRUCTION AND TO PROTECT FROM DAMAGE THOSE PORTIONS OF THE EXISTING STRUCTURE, WHICH ARE TO REMAIN.
- 3. ALL EXISTING STRUCTURAL ELEMENTS (SLABS, BEAMS, WALLS, COLUMNS, FOUNDATIONS...) SHALL REMAIN INTACT UNLESS SPECIFICALLY NOTED TO BE REMOVED BY THE DEMOLITION DOCUMENTS OR OTHERWISE NOTED ON THE STRUCTURAL DRAWINGS. 4. INFORMATION PROVIDED ON THESE DRAWINGS RELATED TO EXISTING CONDITIONS IS BASED ON
- AVAILABLE DESIGN DOCUMENTS. THE CONTRACTOR SHALL IMMEDIATELY NOTIFY AND AWAIT DIRECTION FROM THE OWNER'S REPRESENTATIVE IF ANY DISCREPANCY BETWEEN THE CONTRACT DOCUMENTS AND THE EXISTING CONDITIONS IS DISCOVERED.
- 5. CORE DRILLS REQUIRED BY MECHANICAL OR ELECTRICAL TRADES BUT NOT SHOWN ON THE STRUCTURAL DRAWINGS SHALL BE DOCUMENTED SHOWING EXACT DIMENSIONS AND LOCATIONS. THE DRAWING SHALL BE SUBMITTED TO THE OWNER'S REPRESENTATIVE FOR APPROVAL PRIOR TO PROCEEDING WITH THE DRILLING OPERATION. 6. EXISTING CONCRETE SURFACE PREPARATION: INTENTIONALLY ROUGHEN EXISTING CONCRETE
- SURFACES TO AN AMPLITUDE OF 3/4" WHERE NEW CONCRETE IS BEING PLACED AGAINST THE EXISTING CONCRETE AND CONNECTED BY DRILLING AND EPOXY GROUTING.

# SPECIAL INSPECTION NOTES:

- 1. SPECIAL INSPECTIONS WILL BE PERFORMED IN ACCORDANCE WITH THE STATEMENT OF SPECIAL INSPECTIONS. 2. OWNER, OR ARCHITECT/STRUCTURAL ENGINEER OF RECORD ACTING AS THE OWNER'S AGENT, SHALL
- DIRECTLY EMPLOY AND PAY FOR SERVICES OF THE SPECIAL INSPECTORS TO PERFORM REQUIRED SPECIAL INSPECTIONS.

**DESIGN CRITERIA** 

- 11

2,000 PSF

# STRUCTURAL DESIGN CRITERIA

BUILDING DATA: LOCATION HIGHLAND, NY 12528 BUILDING OCCUPANCY RISK CATEGORY APPLICABLE BUILDING CODE 2020 BUILDING CODE OF NEW YORK STATE (IBC 2018)

### GEOTECHNICAL INFORMATION: ASSUMED ALLOWABLE BEARING PRESSURE

FLOOR LIVE LOADING:

100 PSF GARAGE LL1

# SLAB-ON-GRADE SCHEDULE

MA	RK	TYPE	THICKNESS	slab Reinforcing	REMARKS
SOC	G1	GARAGE SLAB	8"	#4 BARS @ 12" OC, EW, T&B	ADDITIONAL REINF REQ'D IN SLAB, SEE PLAN AND TYP DETAILS

THE AC FOI TES	SCHEDULE OF STRUCTURAL S FOLLOWING TABLES COMPRISES THE STRUCTURAL SPECIAL INSPI CORDANCE WITH CHAPTER 17 OF THE 2018 INTERNATIONAL BUIL R REQUIRED QUALIFICATIONS OF ALL PERSONNEL PERFORMING S TING INFORMATION.	PECIAL INSPEC ECTION REQUIREME DING CODE. REFER SPECIAL INSPECTION	ETIONS ENTS FOR THIS PROJECT TO THE PROJECT SPI N ACTIVITIES AND AD	ct in Ecifications Ditional
	EARTHWORK - REQUIREMENTS FOR SPECIAL	INSPECTION & TEST	ING	
	AREAS OF INSPECTION & TESTING	FREQUENCY OF INSPECTION OR TESTING	REFERENCE STANDARD	IBC REFERENCE
1.	VERIFY MATERIALS BELOW SHALLOW FOUNDATIONS ARE ADEQUATE TO ACHIEVE THE DESIGN BEARING CAPACITY.	PERIODIC	-	1705.6
2.	VERIFY EXCAVATIONS ARE EXTENDED TO PROPER DEPTH AND HAVE REACHED PROPER MATERIAL.	PERIODIC		
3.	PERFORM CLASSIFICATION AND TESTING OF COMPACTED FILL MATERIALS	PERIODIC		
4.	VERIFY USE OF PROPER MATERIALS, DENSITIES, AND LIFT THICKNESS DURING PLACEMENT AND COMPACTION OF COMPACTED FILL.	CONTINUOUS		
5.	PRIOR TO PLACEMENT OF COMPACTED FILL, INSPECT SUBGRADE AND VERIFY THAT SITE HAS BEEN PREPARED PROPERLY.	PERIODIC		
	CAST-IN-PLACE CONCRETE - REQUIREMENTS I	FOR SPECIAL INSPEC	CTION & TESTING	
	AREAS OF INSPECTION & TESTING	FREQUENCY OF INSPECTION OR TESTING	REFERENCE STANDARD	IBC REFERENCE
1.	INSPECT REINFORCEMENT, INCLUDING PRESTRESSING TENDONS, AND VERIFY PLACEMENT.	PERIODIC	ACI 318 CH. 20, 25.2, 25.3, 26.6.1 - 26.6.3	1908.4
2.	REINFORCING BAR WELDING: A. VERIFY WELDABILITY OF REINFORCING BARS OTHER THAN ASTM A706; B. INSPECT SINGLE-PASS FILLET WELDS, MAXIMUM 5/16"; AND C. INSPECT ALL OTHER WELDS.	PERIODIC PERIODIC CONTINUOUS	AWS D1.4 ACI 318: 26.6.4	-
3.	INSPECT ANCHORS CAST IN CONCRETE	PERIODIC	ACI 318:17.8.2	-
4.	INSPECT ANCHORS POST-INSTALLED IN HARDENED CONCRETE MEMBERS. A. ADHESIVE ANCHORS INSTALLED IN HORIZONTALLY OR UPWARDLY INCLINED ORIENTATIONS TO RESIST SUSTAINED TENSION LOADS. B. MECHANICAL ANCHORS AND ADHESIVE ANCHORS.	CONTINUOUS	ACI 318: 17.8.2.4	-
5.	VERIFY USE OF REQUIRED DESIGN MIX.	PERIODIC	ACI 318: CH. 19, 26.4.3, 26.4.4	1904.1, 1904.2, 1908.2, 1908.3
6.	PRIOR TO CONCRETE PLACEMENT, FABRICATE SPECIMENS FOR STRENGTH TESTS, PERFORM SLUMP AND AIR CONTENT TESTS, AND DETERMINE THE TEMPERATURE OF THE CONCRETE.	CONTINUOUS	ASTM C172 ASTM C31 ACI 318: 26.4, 26.12	1908.10
7.	INSPECT CONCRETE AND SHOTCRETE PLACEMENT FOR PROPER APPLICATION TECHNIQUES.	CONTINUOUS	ACI 318: 26.5	1908.6, 1908.7, 1908.8
8.	VERIFY MAINTENANCE OF SPECIFIED CURING TEMPERATURE AND TECHNIQUES.	PERIODIC	ACI 318: 26.5.3 - 26.5.5	1908.9
9.	INSPECT PRESTRESSED CONCRETE FOR: A. APPLICATION OF PRESTRESSING FORCES; AND B. GROUTING OF BONDED PRESTRESSING TENDONS.	CONTINUOUS	ACI 318: 26.10	-
10.	INSPECT ERECTION OF PRECAST CONCRETE MEMBERS.	PERIODIC	ACI 318: CH. 26.8	-
11.	VERIFY IN-SITU CONCRETE STRENGTH, PRIOR TO STRESSING OF TENDONS IN POST-TENSIONED CONCRETE AND PRIOR TO REMOVAL OF SHORES AND FORMS FROM BEAMS AND STRUCTURAL SLABS.	PERIODIC	ACI 318: 26.11.2	-
12.	INSPECT FORMWORK FOR SHAPE, LOCATION AND DIMENSIONS OF THE CONCRETE MEMBER BEING FORMED.	PERIODIC	ACI 318: 26.11.2 (b)	-

WEAT NOT EXP to eart WEAT 

## **CONCRETE REINF SPLICE & DEVELOPMENT LENGTHS SCHEDULE** LAP SPLICE LENGTHS (IN ) DEVELOPMENT LENGTHS (IN )



ION.			
EARTHWORK - REQUIREMENTS FOR SPECIAL	INSPECTION & TEST	ING	
EAS OF INSPECTION & TESTING	FREQUENCY OF INSPECTION OR TESTING	REFERENCE STANDARD	IBC REFERENCE
ALS BELOW SHALLOW FOUNDATIONS ARE ACHIEVE THE DESIGN BEARING CAPACITY.	PERIODIC	-	1705.6
ATIONS ARE EXTENDED TO PROPER DEPTH ACHED PROPER MATERIAL.	PERIODIC		
SIFICATION AND TESTING OF	PERIODIC	-	
PROPER MATERIALS, DENSITIES, NESS DURING PLACEMENT TION OF COMPACTED FILL.	CONTINUOUS	-	
EMENT OF COMPACTED JBGRADE AND VERIFY THAT REPARED PROPERLY.	PERIODIC		
CAST-IN-PLACE CONCRETE - REQUIREMENTS	FOR SPECIAL INSPEC	CTION & TESTING	
EAS OF INSPECTION & TESTING	FREQUENCY OF INSPECTION OR TESTING	REFERENCE STANDARD	IBC REFERENCE
DRCEMENT, INCLUDING PRESTRESSING VERIFY PLACEMENT.	PERIODIC	ACI 318 CH. 20, 25.2, 25.3, 26.6.1 - 26.6.3	1908.4
BAR WELDING: DABILITY OF REINFORCING BARS OTHER THAN	PERIODIC	AWS D1.4 ACI 318: 26.6.4	-
GLE-PASS FILLET WELDS, MAXIMUM 5/16"; AND OTHER WELDS.	PERIODIC CONTINUOUS		
ORS CAST IN CONCRETE	PERIODIC	ACI 318:17.8.2	-
ORS POST-INSTALLED IN HARDENED CONCRETE			
NCHORS INSTALLED IN HORIZONTALLY OR CLINED ORIENTATIONS TO RESIST SUSTAINED S.	CONTINUOUS	ACI 318: 17.8.2.4	-
l anchors and adhesive anchors.	PERIODIC	ACI 318:17.8.2	
REQUIRED DESIGN MIX.	PERIODIC	ACI 318: CH. 19, 26.4.3, 26.4.4	1904.1, 1904.2, 1908.2, 1908.3
CRETE PLACEMENT, FABRICATE SPECIMENS TESTS, PERFORM SLUMP AND AIR CONTENT ERMINE THE TEMPERATURE OF THE CONCRETE.	CONTINUOUS	ASTM C172 ASTM C31 ACI 318: 26.4, 26.12	1908.10
RETE AND SHOTCRETE PLACEMENT FOR CATION TECHNIQUES.	CONTINUOUS	ACI 318: 26.5	1908.6, 1908.7, 1908.8
NANCE OF SPECIFIED CURING TEMPERATURE	PERIODIC	ACI 318: 26.5.3 - 26.5.5	1908.9
essed concrete for: N of prestressing forces; and DF bonded prestressing tendons	CONTINUOUS CONTINUOUS	ACI 318: 26.10	-
ON OF PRECAST CONCRETE MEMBERS.	PERIODIC	ACI 318: CH. 26.8	-
CONCRETE STRENGTH, PRIOR TO STRESSING OF )ST-TENSIONED CONCRETE AND PRIOR TO	PERIODIC	ACI 318: 26.11.2	

# **REINFORCED CONCRETE COVER SCHEDULE**

	MIN COVER (IN)		
CAST AGAINST E	3"		
	#5 BAI	rs and smaller, wwf	1-1/2"
WEATHER	#6 BARS AND LARGER		2"
	3S & LLS	#11 BARS AND SMALLER, WWF	3/4"
TO EARTH OR	SLAF	#14 BARS AND LARGER	1-1/2"
WLAINLK	BEAMS	S AND COLUMNS	1-1/2"

					•1	DEVELOI		
SIZE	TEN	<b>ISION L</b>	AP LENG	TH				
	TOP I	BARS	OTH	HER	COMP.	TENSION	COMP.	HOOKED
ASS	А	В	А	В				
3	18	23	14	18	12		8	7
4	24	31	18	24	15		9	9
5	30	38	23	30	19	S A LICE	12	12
6	35	46	27	35	23	P SP	14	14
7	51	67	40	51	27	as c I la	16	16
8	59	76	45	59	30	ME /	18	18
9	66	86	51	66	34	SAI	21	21
10	74	96	57	74	39	-	23	23
11	82	107	64	82	43		26	26

1. TOP BARS ARE HORIZONTAL BARS, PLACED SO THAT MORE THAN 12 INCHES OF FRESH CONCRETE IS PLACED BELOW THE BAR. 2. ALL LAP SPLICES SHALL BE CLASS "B" UNLESS OTHERWISE NOTED.

3. LENGTHS IN THE TABLE ARE FOR UNCOATED OR ZINC-COATED (GALVANIZED) 4. CLEAR SPACING OF BARS BEING DEVELOPED OR SPLICED NOT LESS THAN 2Db AND CLEAR COVER NOT LESS THAN Db. 5. VALUES IN TABLE ARE FOR NORMAL WEIGHT CONCRETE.

6. SPACING REQUIREMENTS AND END ANCHORAGE SHALL BE SPACED PER THE REQUIREMENTS OF ACI-318.

## **CONCRETE STRENGTH AND MATERIAL SCHEDULE**

STRUCTURAL ELEMENT	MIN COMPRESSIVE STRENGTH AT 28 DAYS (PSI)	MAX WATER/CEMENT RATIO	AIR CONTE (%)
LIFT FOUNDATIONS, SLAB-ON-GRADE	4,500	0.45	6 +/- 1.5

- PREPARE DESIGN MIXES FOR EACH TYPE, AND STRENGTH OF CONCRETE BY EITHER LABORATORY TRIAL BATCH OR FIELD EXPERIENCE METHODS AS SPECIFIED IN ACI 318.
- 2. CONCRETE SHALL BE READY MIXED PER ASTM C94. JOBSITE MIXING SHALL NOT BE PERMITTED. 3. MAXIMUM NOMINAL AGGREGATE SIZE IS 3/4". 4. SEE REINFORCED CONCRETE NOTES ON S-001 FOR ADDTIONAL REQUIREMENTS.
- 5. ENSURE ENTRAPPED AIR IN SLAB CONCRETE TO BE TROWEL FINISHED DOES NOT EXCEED 3%.
- 6. DO NOT HARD-TROWEL SLABS THAT ARE TO BE AIR-ENTRAINED. COORDINATE SLAB FINISH WITH ARCHITECTURAL AND/OR OWNER REQUIREMENTS. CARE SHALL BE TAKEN FOR FINISHING SLABS
- WITH AIR-ENTRAINMENT. CONCRETE PIT WALLS AND MAT FOUNDATION SHALL UTILIZE A CRYSTALLINE WATERPROOFING ADDITIVE (XYPEX, OR EQUAL).

# STRUCTURAL ABBREVIATION LEGEND

AD	ANCHOR BOLI
ABV	ABOVE
ACI	AMERICAN CONCRETE INSTITUTE
ADDL	ADDITIONAL
ADH	ADHESIVE
AFF	ABOVE FINISH FLOOR
AHR	ANCHOR
AISC	
ALI	
APPROX	
ARCH	
ASIM	AMERICAN SOCIETY FOR LESTING
A \ A / C	
AVVS	AMERICAN WELDING SOCIEIT
D/	
BD	
DFE	BASE FLOOD ELEVATION
BLKG	
BM	
BN	BOUNDARY NAILING
BO	BOTTOM OF
BOI	BOIIOM
BRG	BEARING
RIMN	
CFMF	COLD FORMED METAL FRAMING
CIP	CASI-IN-PLACE
CJ	
CJP	COMPLETE JOINT PENETRATION
CL	CENTER LINE
CLR	CLEAR(ANCE)
CMU	CONCRETE MASONRY UNIT
CNJ	CONSTRUCTION JOINT
COL	COLUMN
CONC	CONCRETE
CONN	CONNECT(ED)(ION)
CONST	CONSTRUCTION
CONT	CONTINUOUS
COORD	COORDINATE
CTR	CENT(ER)(ERED)(TRAL)
DEG	DEGREE(S)
DEMO	DEMO(LISH)(LITION)
DFE	DESIGN FLOOD ELEVATION
DIA	DIAMETER
DIAG	DIAGONAL
DIAG DIF	DIAGONAL DIFFEREN(CE)(TIAL)
DIAG DIF DIM	DIAGONAL DIFFEREN(CE)(TIAL) DIMENSION
DIAG DIF DIM DIV	DIAGONAL DIFFEREN(CE)(TIAL) DIMENSION DIVI(DE)(DED)(DER)(SION)
DIAG DIF DIM DIV DL	DIAGONAL DIFFEREN(CE)(TIAL) DIMENSION DIVI(DE)(DED)(DER)(SION) DEAD LOAD
DIAG DIF DIM DIV DL DN	DIAGONAL DIFFEREN(CE)(TIAL) DIMENSION DIVI(DE)(DED)(DER)(SION) DEAD LOAD DOWN
DIAG DIF DIM DIV DL DN DTL	DIAGONAL DIFFEREN(CE)(TIAL) DIMENSION DIVI(DE)(DED)(DER)(SION) DEAD LOAD DOWN DETAIL
DIAG DIF DIM DIV DL DN DTL DWG(S)	DIAGONAL DIFFEREN(CE)(TIAL) DIMENSION DIVI(DE)(DED)(DER)(SION) DEAD LOAD DOWN DETAIL DRAWING(S)
DIAG DIF DIM DIV DL DN DTL DWG(S) DWL	DIAGONAL DIFFEREN(CE)(TIAL) DIMENSION DIVI(DE)(DED)(DER)(SION) DEAD LOAD DOWN DETAIL DRAWING(S) DOWEL(REBAR)
DIAG DIF DIM DIV DL DN DTL DWG(S) DWL (E)	DIAGONAL DIFFEREN(CE)(TIAL) DIMENSION DIVI(DE)(DED)(DER)(SION) DEAD LOAD DOWN DETAIL DRAWING(S) DOWEL(REBAR) EXISTNG
DIAG DIF DIM DIV DL DN DTL DWG(S) DWL (E) EA	DIAGONAL DIFFEREN(CE)(TIAL) DIMENSION DIVI(DE)(DED)(DER)(SION) DEAD LOAD DOWN DETAIL DRAWING(S) DOWEL(REBAR) EXISTNG EACH
DIAG DIF DIM DIV DL DN DTL DWG(S) DWL (E) EA EF	DIAGONAL DIFFEREN(CE)(TIAL) DIMENSION DIVI(DE)(DED)(DER)(SION) DEAD LOAD DOWN DETAIL DRAWING(S) DOWEL(REBAR) EXISTNG EACH EACH FACE
DIAG DIF DIM DIV DL DN DTL DWG(S) DWL (E) EA EF EJ	DIAGONAL DIFFEREN(CE)(TIAL) DIMENSION DIVI(DE)(DED)(DER)(SION) DEAD LOAD DOWN DETAIL DRAWING(S) DOWEL(REBAR) EXISTNG EACH EACH FACE EXPANSION JOINT
DIAG DIF DIM DIV DL DN DTL DWG(S) DWL (E) EA EF EJ ELEV	DIAGONAL DIFFEREN(CE)(TIAL) DIMENSION DIVI(DE)(DED)(DER)(SION) DEAD LOAD DOWN DETAIL DRAWING(S) DOWEL(REBAR) EXISTNG EACH EACH FACE EXPANSION JOINT ELEVATION
DIAG DIF DIM DIV DL DN DTL DWG(S) DWL (E) EA EF EJ ELEV EMBED	DIAGONAL DIFFEREN(CE)(TIAL) DIMENSION DIVI(DE)(DED)(DER)(SION) DEAD LOAD DOWN DETAIL DRAWING(S) DOWEL(REBAR) EXISTNG EACH EACH FACE EXPANSION JOINT ELEVATION EMBEDMENT
DIAG DIF DIM DIV DL DN DTL DWG(S) DWL (E) EA EF EJ ELEV EMBED EOD	DIAGONAL DIFFEREN(CE)(TIAL) DIMENSION DIVI(DE)(DED)(DER)(SION) DEAD LOAD DOWN DETAIL DRAWING(S) DOWEL(REBAR) EXISTNG EACH EACH EACH FACE EXPANSION JOINT ELEVATION EMBEDMENT EDGE OF DECK
DIAG DIF DIM DIV DL DN DTL DWG(S) DWL (E) EA EF EJ ELEV EMBED EOD EOS	DIAGONAL DIFFEREN(CE)(TIAL) DIMENSION DIVI(DE)(DED)(DER)(SION) DEAD LOAD DOWN DETAIL DRAWING(S) DOWEL(REBAR) EXISTNG EACH EACH FACE EXPANSION JOINT ELEVATION EMBEDMENT EDGE OF DECK EDGE OF SLAB
DIAG DIF DIM DIV DL DN DTL DWG(S) DWL (E) EA EF EJ ELEV EMBED EOD EOS EQ	DIAGONAL DIFFEREN(CE)(TIAL) DIMENSION DIVI(DE)(DED)(DER)(SION) DEAD LOAD DOWN DETAIL DRAWING(S) DOWEL(REBAR) EXISTNG EACH EACH FACE EXPANSION JOINT ELEVATION EMBEDMENT EDGE OF DECK EDGE OF SLAB EQUAL
DIAG DIF DIM DIV DL DN DTL DWG(S) DWL (E) EA EF EJ ELEV EMBED EOD EOS EQ EW	DIAGONAL DIFFEREN(CE)(TIAL) DIMENSION DIVI(DE)(DED)(DER)(SION) DEAD LOAD DOWN DETAIL DRAWING(S) DOWEL(REBAR) EXISTNG EACH EACH FACE EXPANSION JOINT ELEVATION EMBEDMENT EDGE OF DECK EDGE OF SLAB EQUAL EACH WAY
DIAG DIF DIM DIV DL DN DTL DWG(S) DWL (E) EA EF EJ ELEV EMBED EOD EOS EQ EQ EW EXIST	DIAGONAL DIFFEREN(CE)(TIAL) DIMENSION DIVI(DE)(DED)(DER)(SION) DEAD LOAD DOWN DETAIL DRAWING(S) DOWEL(REBAR) EXISTNG EACH EACH FACE EXPANSION JOINT ELEVATION EMBEDMENT EDGE OF DECK EDGE OF SLAB EQUAL EACH WAY EXISTING
DIAG DIF DIM DIV DL DN DTL DWG(S) DWL (E) EA EF EJ ELEV EMBED EOD EOS EQ EQ EW EXIST EXP	DIAGONAL DIFFEREN(CE)(TIAL) DIFFEREN(CE)(TIAL) DIMENSION DIVI(DE)(DED)(DER)(SION) DEAD LOAD DOWN DETAIL DRAWING(S) DOWEL(REBAR) EXISTNG EACH EACH FACE EXPANSION JOINT ELEVATION EMBEDMENT EDGE OF DECK EDGE OF SLAB EQUAL EACH WAY EXISTING EXPAN(D)(SION)
DIAG DIF DIM DIV DL DN DTL DWG(S) DWL (E) EA EF EJ ELEV EMBED EOD EOS EQ EQ EW EXIST EXP EXT	DIAGONAL DIFFEREN(CE)(TIAL) DIMENSION DIVI(DE)(DED)(DER)(SION) DEAD LOAD DOWN DETAIL DRAWING(S) DOWEL(REBAR) EXISTNG EACH EACH FACE EXPANSION JOINT ELEVATION EMBEDMENT EDGE OF DECK EDGE OF SLAB EQUAL EACH WAY EXISTING EXPAN(D)(SION) EXTERIOR
DIAG DIF DIM DIV DL DN DTL DWG(S) DWL (E) EA EF EJ ELEV EMBED EOD EOS EQ EQ EQ EQ EQ EXIST EXP EXT FD	DIAGONAL DIFFEREN(CE)(TIAL) DIMENSION DIVI(DE)(DED)(DER)(SION) DEAD LOAD DOWN DETAIL DRAWING(S) DOWEL(REBAR) EXISTNG EACH EACH FACE EXPANSION JOINT ELEVATION EMBEDMENT EDGE OF DECK EDGE OF SLAB EQUAL EACH WAY EXISTING EXPAN(D)(SION) EXTERIOR FLOOR DRAIN
DIAG DIF DIM DIV DL DN DTL DWG(S) DWL (E) EA EF EJ ELEV EMBED EOD EOS EQ EQ EW EXIST EXP EXT FD FFE	DIAGONAL DIFFEREN(CE)(TIAL) DIMENSION DIVI(DE)(DED)(DER)(SION) DEAD LOAD DOWN DETAIL DRAWING(S) DOWEL(REBAR) EXISTNG EACH EACH FACE EXPANSION JOINT ELEVATION EMBEDMENT EDGE OF DECK EDGE OF SLAB EQUAL EACH WAY EXISTING EXISTING EXPAN(D)(SION) EXTERIOR FLOOR DRAIN FINISHED FLOOR ELEVATION
DIAG DIF DIM DIV DL DN DTL DWG(S) DWL (E) EA EF EJ ELEV EMBED EOD EOS EQ EW EXIST EXP EXT FD FFE FIN	DIAGONAL DIFFEREN(CE)(TIAL) DIMENSION DIVI(DE)(DED)(DER)(SION) DEAD LOAD DOWN DETAIL DRAWING(S) DOWEL(REBAR) EXISTNG EACH EACH FACE EXPANSION JOINT ELEVATION EMBEDMENT EDGE OF DECK EDGE OF SLAB EQUAL EACH WAY EXISTING EXPAN(D)(SION) EXTERIOR FLOOR DRAIN FINISHED FLOOR ELEVATION FINISHED
DIAG DIF DIM DIV DL DN DTL DWG(S) DWL (E) EA EF EJ ELEV EMBED EOD EOS EQ EW EXIST EXP EXT FD FFE FIN FNDN	DIAGONAL DIFFEREN(CE)(TIAL) DIMENSION DIVI(DE)(DED)(DER)(SION) DEAD LOAD DOWN DETAIL DRAWING(S) DOWEL(REBAR) EXISTNG EACH EACH FACE EXPANSION JOINT ELEVATION EMBEDMENT EDGE OF DECK EDGE OF SLAB EQUAL EACH WAY EXISTING EXPAN(D)(SION) EXTERIOR FLOOR DRAIN FINISHED FOUNDATION
DIAG DIF DIM DIV DL DN DTL DWG(S) DWL (E) EA EF EJ ELEV EMBED EOD EOS EQ EW EXIST EXP EXT FD FFE FIN FNDN FP	DIAGONAL DIFFEREN(CE)(TIAL) DIMENSION DIVI(DE)(DED)(DER)(SION) DEAD LOAD DOWN DETAIL DRAWING(S) DOWEL(REBAR) EXISTNG EACH EACH FACE EXPANSION JOINT ELEVATION EMBEDMENT EDGE OF DECK EDGE OF SLAB EQUAL EACH WAY EXISTING EXTERIOR FLOOR DRAIN FINISHED FLOOR ELEVATION FINISHED FOUNDATION FIREPROOF(ING)
DIAG           DIF           DIM           DIV           DL           DN           DTL           DWG(S)           DWL           (E)           EA           EF           EJ           ELEV           EMBED           EOD           EQ           EW           EXIST           EXP           FD           FFE           FIN           FNDN           FP           FRMG	DIAGONAL DIFFEREN(CE)(TIAL) DIFFEREN(CE)(TIAL) DIMENSION DIVI(DE)(DED)(DER)(SION) DEAD LOAD DOWN DETAIL DRAWING(S) DOWEL(REBAR) EXISTNG EACH EACH FACE EXPANSION JOINT ELEVATION EMBEDMENT EDGE OF DECK EDGE OF SLAB EQUAL EACH WAY EXISTING EXPAN(D)(SION) EXTERIOR FLOOR DRAIN FINISHED FLOOR ELEVATION FINISHED FOUNDATION FIREPROOF(ING) FRAMING
DIAG         DIF         DIM         DIV         DL         DN         DTL         DWG(S)         DWL         (E)         EA         EF         EJ         ELEV         EMBED         EOD         EOS         EQ         EXT         FD         FFE         FIN         FNDN         FP         FRMG         FS	DIAGONAL DIFFEREN(CE)(TIAL) DIMENSION DIVI(DE)(DED)(DER)(SION) DEAD LOAD DOWN DETAIL DRAWING(S) DOWEL(REBAR) EXISTNG EACH EACH FACE EXPANSION JOINT ELEVATION EMBEDMENT EDGE OF DECK EDGE OF SLAB EQUAL EACH WAY EXISTING EXTERIOR FLOOR DRAIN FINISHED FLOOR ELEVATION FINISHED FOUNDATION FRAMING FRAMING FAR SIDE
DIAG         DIF         DIM         DIV         DL         DN         DTL         DWG(S)         DWL         (E)         EA         EF         EJ         ELEV         EMBED         EOD         EQ         EW         EXIST         EXP         FD         FFE         FIN         FNDN         FP         FRMG         FS	DIAGONAL DIFFEREN(CE)(TIAL) DIMENSION DIVI(DE)(DED)(DER)(SION) DEAD LOAD DOWN DETAIL DRAWING(S) DOWEL(REBAR) EXISTNG EACH EACH FACE EXPANSION JOINT ELEVATION EMBEDMENT EDGE OF DECK EDGE OF SLAB EQUAL EACH WAY EXISTING EXPAN(D)(SION) EXTERIOR FLOOR DRAIN FINISHED FOUNDATION FIREPROOF(ING) FRAMING FAR SIDE FOOTING STEP
DIAG           DIF           DIM           DIV           DL           DN           DTL           DWG(S)           DWL           (E)           EA           EF           EJ           ELEV           EMBED           EOD           EQ           EW           EXIST           EXP           FD           FFE           FIN           FNDN           FP           FRMG           FS           FIG	DIAGONAL DIFFEREN(CE)(TIAL) DIMENSION DIVI(DE)(DED)(DER)(SION) DEAD LOAD DOWN DETAIL DRAWING(S) DOWEL(REBAR) EXISTNG EACH EACH FACE EXPANSION JOINT ELEVATION EMBEDMENT EDGE OF DECK EDGE OF SLAB EQUAL EACH WAY EXISTING EXPAN(D)(SION) EXTERIOR FLOOR DRAIN FINISHED FOUNDATION FIREPROOF(ING) FRAMING FAR SIDE FOOTING STEP FOOTING
DIAG           DIF           DIM           DIV           DL           DN           DTL           DWG(S)           DWL           (E)           EA           EF           EJ           ELEV           EMBED           EOD           EQ           EW           EXIST           EXP           FD           FFE           FIN           FNDN           FP           FRMG           FS           FS           FTG           GA	DIAGONAL DIFFEREN(CE)(TIAL) DIMENSION DIVI(DE)(DED)(DER)(SION) DEAD LOAD DOWN DETAIL DRAWING(S) DOWEL(REBAR) EXISTNG EACH EACH FACE EXPANSION JOINT ELEVATION EMBEDMENT EDGE OF DECK EDGE OF SLAB EQUAL EACH WAY EXISTING EXPAN(D)(SION) EXTERIOR FLOOR DRAIN FINISHED FLOOR ELEVATION FINISHED FOUNDATION FIREPROOF(ING) FRAMING FAR SIDE FOOTING STEP FOOTING GAUGE
DIAG         DIF         DIM         DIV         DL         DN         DTL         DWG(S)         DWL         (E)         EA         EF         EJ         ELEV         EMBED         EOD         EOS         EQ         EXT         FD         FFE         FIN         FNDN         FP         FRMG         FS         FIG         GALV	DIAGONAL DIFFEREN(CE)(TIAL) DIMENSION DIVI(DE)(DED)(DER)(SION) DEAD LOAD DOWN DETAIL DRAWING(S) DOWEL(REBAR) EXISTNG EACH EACH FACE EXPANSION JOINT ELEVATION EMBEDMENT EDGE OF DECK EDGE OF SLAB EQUAL EACH WAY EXISTING EXUAL EACH WAY EXISTING EXPAN(D)(SION) EXTERIOR FLOOR DRAIN FINISHED FLOOR ELEVATION FINISHED FOUNDATION FIREPROOF(ING) FRAMING FAR SIDE FOOTING STEP FOOTING STEP FOOTING GAUGE GALVANIZED
DIAG           DIF           DIM           DIV           DL           DN           DTL           DWG(S)           DWL           (E)           EA           EF           EJ           ELEV           EMBED           EOD           EQ           EW           EXIST           EXP           FD           FFE           FIN           FNDN           FP           FRMG           FS           FIG           GA           GALV           GC	DIAGONAL DIFFEREN(CE)(TIAL) DIMENSION DIVI(DE)(DED)(DER)(SION) DEAD LOAD DOWN DETAIL DRAWING(S) DOWEL(REBAR) EXISTNG EACH EACH FACE EXPANSION JOINT ELEVATION EMBEDMENT EDGE OF DECK EDGE OF SLAB EQUAL EACH WAY EXISTING EXISTING EXTERIOR FLOOR DRAIN FINISHED FLOOR ELEVATION FINISHED FOUNDATION FIREPROOF(ING) FRAMING FAR SIDE FOOTING GAUGE GALVANIZED GENERAL
DIAG           DIF           DIM           DIV           DL           DN           DTL           DWG(S)           DWL           (E)           EA           EF           EJ           ELEV           EMBED           EOD           EQ           EW           EXIST           FD           FFE           FIN           FNDN           FP           FRMG           FS           FIG           GALV           GC	DIAGONAL DIFFEREN(CE)(TIAL) DIMENSION DIVI(DE)(DED)(DER)(SION) DEAD LOAD DOWN DETAIL DRAWING(S) DOWEL(REBAR) EXISTNG EACH EACH FACE EXPANSION JOINT ELEVATION EMBEDMENT EDGE OF DECK EDGE OF SLAB EQUAL EACH WAY EXISTING EXPAN(D)(SION) EXTERIOR FLOOR DRAIN FINISHED FLOOR ELEVATION FINISHED FOUNDATION FIREPROOF(ING) FRAMING FAR SIDE FOOTING GAUGE GALVANIZED GENERAL CONTRACTOR/CONSRTUCTION
DIAG DIF DIF DIM DIV DL DN DTL DWG(S) DWL (E) EA EF EJ ELEV EMBED EOD EOS EQ EW EXIST EXP EXT FD FFE FIN FNDN FP FRMG FS FS FS FTG GA C C	DIAGONAL DIFFEREN(CE)(TIAL) DIFFEREN(CE)(TIAL) DIMENSION DIVI(DE)(DED)(DER)(SION) DEAD LOAD DOWN DETAIL DRAWING(S) DOWEL(REBAR) EXISTNG EACH EACH FACE EXPANSION JOINT ELEVATION EMBEDMENT EDGE OF DECK EDGE OF SLAB EQUAL EACH WAY EXISTING EXPAN(D)(SION) EXTERIOR FLOOR DRAIN FINISHED FLOOR ELEVATION FINISHED FOUNDATION FIREPROOF(ING) FRAMING FAR SIDE FOOTING GAUGE GALVANIZED GENERAL CONTRACTOR/CONSRTUCTION MANAGER
DIAG         DIF         DIM         DIV         DL         DN         DTL         DWG(S)         DWL         (E)         EA         EF         EJ         ELEV         EMBED         EOD         EOS         EQ         EXT         FD         FRE         FIN         FNDN         FP         FRMG         FS         FIG         GALV         GC	DIAGONAL DIFFEREN(CE)(TIAL) DIMENSION DIVI(DE)(DED)(DER)(SION) DEAD LOAD DOWN DETAIL DRAWING(S) DOWEL(REBAR) EXISTNG EACH EACH FACE EXPANSION JOINT ELEVATION EMBEDMENT EDGE OF DECK EDGE OF SLAB EQUAL EACH WAY EXISTING EXPAN(D)(SION) EXTERIOR FLOOR DRAIN FINISHED FLOOR ELEVATION FINISHED FLOOR ELEVATION FINISHED FOUNDATION FIREPROOF(ING) FRAMING FAR SIDE FOOTING STEP FOOTING GAUGE GALVANIZED GENERAL CONTRACTOR/CONSRTUCTION MANAGER HEAVY DUTY
DIAG DIF DIF DIM DIV DL DN DTL DWG(S) DWL (E) EA EF EJ ELEV EMBED EOD EOS EQ EW EXIST EXP EXIST EXP FTG FNDN FP FRMG FS FS FTG GA GALV GC HD HK	DIAGONAL DIFFEREN(CE)(TIAL) DIFFEREN(CE)(TIAL) DIMENSION DIVI(DE)(DED)(DER)(SION) DEAD LOAD DOWN DETAIL DRAWING(S) DOWEL(REBAR) EXISTNG EACH EACH FACE EXPANSION JOINT ELEVATION EMBEDMENT EDGE OF DECK EDGE OF DECK EDGE OF SLAB EQUAL EACH WAY EXISTING EXPAN(D)(SION) EXTERIOR FLOOR DRAIN FINISHED FLOOR ELEVATION FINISHED FOUNDATION FIREPROOF(ING) FRAMING FAR SIDE FOOTING STEP FOOTING GAUGE GALVANIZED GENERAL CONTRACTOR/CONSRTUCTION MANAGER
DIAG         DIF         DIM         DIV         DL         DN         DTL         DWG(S)         DWL         (E)         EA         EF         EJ         ELEV         EMBED         EOD         EOS         EQ         EXT         FD         FFE         FIN         FNDN         FP         FRMG         FS         FS         FIG         GA         GALV         GC         HD         HK         HORIZ	DIAGONAL DIFFEREN(CE)(TIAL) DIFFEREN(CE)(TIAL) DIMENSION DIVI(DE)(DED)(DER)(SION) DEAD LOAD DOWN DETAIL DRAWING(S) DOWEL(REBAR) EXISTNG EACH EACH FACE EXPANSION JOINT ELEVATION EMBEDMENT EDGE OF DECK EDGE OF SLAB EQUAL EACH WAY EXISTING EXTERIOR FLOOR DRAIN FINISHED FLOOR ELEVATION FINISHED FOUNDATION FINISHED FOUNDATION FIREPROOF(ING) FRAMING FAR SIDE FOOTING GAUGE GALVANIZED GENERAL CONTRACTOR/CONSRTUCTION MANAGER HEAVY DUTY HOOK HORIZONTAL
DIAG         DIF         DIM         DIV         DL         DN         DTL         DWG(S)         DWL         (E)         EA         EF         EJ         ELEV         EMBED         EOD         EOS         EQ         EXT         FD         FFE         FIN         FNDN         FP         FRMG         FS         FIG         GALV         GC         HD         HK         HORIZ	DIAGONAL DIFFEREN(CE)(TIAL) DIMENSION DIVI(DE)(DED)(DER)(SION) DEAD LOAD DOWN DETAIL DRAWING(S) DOWEL(REBAR) EXISTNG EACH EACH FACE EXPANSION JOINT ELEVATION EMBEDMENT EDGE OF DECK EDGE OF SLAB EQUAL EACH WAY EXISTING EXPAN(D)(SION) EXTERIOR FLOOR DRAIN FINISHED FLOOR ELEVATION FINISHED FLOOR ELEVATION FINISHED FOUNDATION FIREPROOF(ING) FRAMING FAR SIDE FOOTING STEP FOOTING STEP FOOTING STEP FOOTING STEP FOOTING GAUGE GALVANIZED GENERAL CONTRACTOR/CONSRTUCTION MANAGER HEAVY DUTY HOOK HORIZONTAL HIGH POINT
DIAG         DIF         DIM         DIV         DL         DN         DTL         DWG(S)         DWL         (E)         EA         EF         EJ         ELEV         EMBED         EOD         EQ         EW         EXIST         EXP         FD         FFE         FIN         FNDN         FP         FRMG         FS         FS         FIG         GA         GALV         GC         HD         HK         HORIZ         HP	DIAGONAL DIFFEREN(CE)(TIAL) DIFFEREN(CE)(TIAL) DIMENSION DIVI(DE)(DED)(DER)(SION) DEAD LOAD DOWN DETAIL DRAWING(S) DOWEL(REBAR) EXISTNG EACH EACH FACE EXPANSION JOINT ELEVATION EMBEDMENT EDGE OF DECK EDGE OF SLAB EQUAL EACH WAY EXISTING EXPAN(D)(SION) EXTERIOR FLOOR DRAIN FINISHED FLOOR ELEVATION FINISHED FOUNDATION FIREPROOF(ING) FRAMING FAR SIDE FOOTING STEP FOOTING GAUGE GALVANIZED GENERAL CONTRACTOR/CONSRTUCTION MANAGER HEAVY DUTY HOOK HORIZONTAL HIGH PINT
DIAG         DIF         DIM         DIV         DL         DN         DTL         DWG(S)         DWL         (E)         EA         EF         EJ         ELEV         EMBED         EOD         EQ         EW         EXIST         EXP         FD         FRE         FIN         FNDN         FP         FRMG         FS         FIG         GA         GALV         GC         HD         HK         HORIZ         HP         HSS	DIAGONAL DIFFEREN(CE)(TIAL) DIMENSION DIVI(DE)(DED)(DER)(SION) DEAD LOAD DOWN DETAIL DRAWING(S) DOWEL(REBAR) EXISTNG EACH EACH FACE EXPANSION JOINT ELEVATION EMBEDMENT EDGE OF DECK EDGE OF SLAB EQUAL EACH WAY EXISTING EXPAN(D)(SION) EXTERIOR FLOOR DRAIN FINISHED FLOOR ELEVATION FINISHED FLOOR ELEVATION FINISHED FOUNDATION FIREPROOF(ING) FRAMING FAR SIDE FOOTING STEP FOOTING STEP FOOTING STEP FOOTING STEP FOOTING GAUGE GALVANIZED GENERAL CONTRACTOR/CONSRTUCTION MANAGER HEAVY DUTY HOOK HORIZONTAL HIGH POINT HIGH STRENGTH HOLLOW STRUCTURAL SECTION(STRUC

<u>SIRUCI</u>	
IF	INSIDE FACE
INFO	INFORMATION
INSUL	INSULATION
INTMD	INTERMEDIATE
JT	JOINT
К	KIP (1000 POUNDS)
KLF	KIPS PER LINEAR FOOT
KSI	KIPS PER SQUARE INCH
LB/LBS	POUNDS
LF	LINEAR FOOT,FEET
LL	LIVE LOAD
LLH	LONG LEG HORIZONTAL
LLV	LONG LEG VERTICAL
LOC	LOCATION(S)
LP	LOW POINT
LVL	LEVEL
LW	LIGHTWEIGHT
MANUF	MANUFACTURER
MATL	MATERIAL
МАХ	MAXIMUM
MECH	MECHANICAL
MEZZ	MEZZANINE
MIN	MINIMUM
MISC	MISCELLANEOUS
MTL	METAL
(N)	NFW
NS	NEAR SIDE
NTS	NOT TO SCALE
OC	ON CENTER
OD	
OF	OUTSIDE FACE
OPN'G	OPENING(S)
OPP	OPPOSITE
P	PIER (SEF SCHEDULE)
PCC	PRECAST CONCRETE
PCF	
PEMB	
PERE	
	PERIMETER
PI	
PLE	
PREFIN	
PT	
R	
IX	
RC	RFINFORCED CONCRETE
RC RD	REINFORCED CONCRETE
RC RD RFINF	REINFORCED CONCRETE ROOF DRAIN REINFORCING, REINFORCEMENT
RC RD REINF RFQ('D)	REINFORCED CONCRETE ROOF DRAIN REINFORCING, REINFORCEMENT REQUIRE(D)
RC RD REINF REQ('D) REV	REINFORCED CONCRETE ROOF DRAIN REINFORCING, REINFORCEMENT REQUIRE(D) REVIS(E)(ED)(ION)
RC RD REINF REQ('D) REV RTU	REINFORCED CONCRETE ROOF DRAIN REINFORCING, REINFORCEMENT REQUIRE(D) REVIS(E)(ED)(ION) ROOF TOP UNITS
RC RD REINF REQ('D) REV RTU SCHED	REINFORCED CONCRETE ROOF DRAIN REINFORCING, REINFORCEMENT REQUIRE(D) REVIS(E)(ED)(ION) ROOF TOP UNITS SCHEDULE
RC RD REINF REQ('D) REV RTU SCHED SDI	REINFORCED CONCRETE ROOF DRAIN REINFORCING, REINFORCEMENT REQUIRE(D) REVIS(E)(ED)(ION) ROOF TOP UNITS SCHEDULE STEEL DECK INSTITUTE
RC RD REINF REQ('D) REV RTU SCHED SDI SHT	REINFORCED CONCRETE ROOF DRAIN REINFORCING, REINFORCEMENT REQUIRE(D) REVIS(E)(ED)(ION) ROOF TOP UNITS SCHEDULE STEEL DECK INSTITUTE SHEET
RC RD REINF REQ('D) REV RTU SCHED SDI SHT SHTG	REINFORCED CONCRETE ROOF DRAIN REINFORCING, REINFORCEMENT REQUIRE(D) REVIS(E)(ED)(ION) ROOF TOP UNITS SCHEDULE STEEL DECK INSTITUTE SHEET SHEATHING
RC RD REINF REQ('D) REV RTU SCHED SDI SHT SHTG SIM	REINFORCED CONCRETE ROOF DRAIN REINFORCING, REINFORCEMENT REQUIRE(D) REVIS(E)(ED)(ION) ROOF TOP UNITS SCHEDULE STEEL DECK INSTITUTE SHEATHING SIMILAR
RC RD REINF REQ('D) REV RTU SCHED SDI SHT SHTG SIM SL	REINFORCED CONCRETE ROOF DRAIN REINFORCING, REINFORCEMENT REQUIRE(D) REVIS(E)(ED)(ION) ROOF TOP UNITS SCHEDULE STEEL DECK INSTITUTE SHEET SHEATHING SIMILAR SNOW LOAD
RC RD REINF REQ('D) REV RTU SCHED SDI SHT SHTG SIM SL SOG	REINFORCED CONCRETE ROOF DRAIN REINFORCING, REINFORCEMENT REQUIRE(D) REVIS(E)(ED)(ION) ROOF TOP UNITS SCHEDULE STEEL DECK INSTITUTE SHEET SHEATHING SIMILAR SNOW LOAD SLAB ON GRADE
RC RD REINF REQ('D) REV RTU SCHED SDI SHT SHTG SIM SL SOG SPA	REINFORCED CONCRETE ROOF DRAIN REINFORCING, REINFORCEMENT REQUIRE(D) REVIS(E)(ED)(ION) ROOF TOP UNITS SCHEDULE STEEL DECK INSTITUTE SHEATHING SIMILAR SNOW LOAD SLAB ON GRADE SPACE OR SPACING
RC RD REINF REQ('D) REV RTU SCHED SDI SHT SHTG SIM SL SOG SPA SQ	REINFORCED CONCRETE ROOF DRAIN REINFORCING, REINFORCEMENT REQUIRE(D) REVIS(E)(ED)(ION) ROOF TOP UNITS SCHEDULE STEEL DECK INSTITUTE SHEATHING SIMILAR SNOW LOAD SLAB ON GRADE SPACE OR SPACING SQUARE
RC RD REINF REQ('D) REV RTU SCHED SDI SHT SHTG SIM SL SOG SPA SQ SQ(FT)	REINFORCED CONCRETE ROOF DRAIN REINFORCING, REINFORCEMENT REQUIRE(D) REVIS(E)(ED)(ION) ROOF TOP UNITS SCHEDULE STEEL DECK INSTITUTE SHEATHING SIMILAR SNOW LOAD SLAB ON GRADE SPACE OR SPACING SQUARE SQUARE FOOT/FEET
RC RD REINF REQ('D) REV RTU SCHED SDI SHT SHTG SIM SL SOG SPA SQ SQ(FT) STD	REINFORCED CONCRETE ROOF DRAIN REINFORCING, REINFORCEMENT REQUIRE(D) REVIS(E)(ED)(ION) ROOF TOP UNITS SCHEDULE STEEL DECK INSTITUTE SHEATHING SIMILAR SNOW LOAD SLAB ON GRADE SPACE OR SPACING SQUARE SQUARE FOOT/FEET STANDARD
RC RD REINF REQ('D) REV RTU SCHED SDI SHT SHTG SIM SL SOG SPA SQ SQ(FT) STD STIFF	REINFORCED CONCRETE ROOF DRAIN REINFORCING, REINFORCEMENT REQUIRE(D) REVIS(E)(ED)(ION) ROOF TOP UNITS SCHEDULE STEEL DECK INSTITUTE SHEATHING SIMILAR SNOW LOAD SLAB ON GRADE SPACE OR SPACING SQUARE SQUARE SQUARE FOOT/FEET STANDARD STIFFENER
RC RD REINF REQ('D) REV RTU SCHED SDI SHT SHTG SIM SL SOG SPA SQ SPA SQ SQ(FT) STID STIFF STL	REINFORCED CONCRETE ROOF DRAIN REINFORCING, REINFORCEMENT REQUIRE(D) REVIS(E)(ED)(ION) ROOF TOP UNITS SCHEDULE STEEL DECK INSTITUTE SHEET SHEATHING SIMILAR SNOW LOAD SLAB ON GRADE SPACE OR SPACING SQUARE SQUARE SQUARE FOOT/FEET STANDARD STIFFENER STEEL
RC RD REINF REQ('D) REV RTU SCHED SDI SHT SHTG SIM SL SOG SPA SQ SQ(FT) STD STIFF STL STRUCT	REINFORCED CONCRETE ROOF DRAIN REINFORCING, REINFORCEMENT REQUIRE(D) REVIS(E)(ED)(ION) ROOF TOP UNITS SCHEDULE STEEL DECK INSTITUTE SHEATHING SIMILAR SNOW LOAD SLAB ON GRADE SPACE OR SPACING SQUARE SQUARE SQUARE FOOT/FEET STANDARD STIFFENER STEEL STRUCTUR(E)(AL)
RC RD REINF REQ('D) REV RTU SCHED SDI SHT SHTG SIM SL SOG SPA SQ SPA SQ SQ(FT) STD STIFF STL STRUCT T&B	REINFORCED CONCRETE ROOF DRAIN REINFORCING, REINFORCEMENT REQUIRE(D) REVIS(E)(ED)(ION) ROOF TOP UNITS SCHEDULE STEEL DECK INSTITUTE SHEATHING SIMILAR SNOW LOAD SLAB ON GRADE SPACE OR SPACING SQUARE SQUARE SQUARE FOOT/FEET STANDARD STIFFENER STEEL STRUCTUR(E)(AL) TOP&BOTTOM
RC RD REINF REQ('D) REV RTU SCHED SDI SHT SHTG SIM SL SOG SPA SQ SPA SQ SQ(FT) STIFF STL STIFF STL STRUCT T&B T/	REINFORCED CONCRETE ROOF DRAIN REINFORCING, REINFORCEMENT REQUIRE(D) REVIS(E)(ED)(ION) ROOF TOP UNITS SCHEDULE STEEL DECK INSTITUTE SHEATHING SIMILAR SNOW LOAD SLAB ON GRADE SPACE OR SPACING SQUARE SQUARE SQUARE SQUARE SQUARE SQUARE STIFFENER STEEL STRUCTUR(E)(AL) TOP & BOTTOM TOP OF
RC RD REINF REQ('D) REV RTU SCHED SDI SHT SHTG SIM SL SOG SPA SQ SQ(FT) STD STIFF STL STRUCT T&B T/ TBE	REINFORCED CONCRETE ROOF DRAIN REINFORCING, REINFORCEMENT REQUIRE(D) REVIS(E)(ED)(ION) ROOF TOP UNITS SCHEDULE STEEL DECK INSTITUTE SHEATHING SIMILAR SNOW LOAD SLAB ON GRADE SPACE OR SPACING SQUARE SQUARE SQUARE SQUARE SQUARE STIFFENER STEEL STRUCTUR(E)(AL) TOP & BEAM ELEVATION
RC RD REINF REQ('D) REV RTU SCHED SDI SHT SHTG SIM SL SOG SPA SQ SPA SQ SPA SQ STD STD STIFF STL STRUCT T&B T/ TBE TDE	REINFORCED CONCRETE ROOF DRAIN REINFORCING, REINFORCEMENT REQUIRE(D) REVIS(E)(ED)(ION) ROOF TOP UNITS SCHEDULE STEEL DECK INSTITUTE SHEATHING SIMILAR SNOW LOAD SLAB ON GRADE SPACE OR SPACING SQUARE SQUARE SQUARE SQUARE SQUARE STIFFENER STEEL STEEL STRUCTUR(E)(AL) TOP OF TOP OF BEAM ELEVATION TOP OF DECK ELEVATION
RC RD REINF REQ('D) REV RTU SCHED SDI SHT SHTG SIM SL SOG SPA SQ SQ(FT) STD STIFF STL STRUCT T&B T/ TBE TDE TEMP	REINFORCED CONCRETE ROOF DRAIN REINFORCING, REINFORCEMENT REQUIRE(D) REVIS(E)(ED)(ION) ROOF TOP UNITS SCHEDULE STEEL DECK INSTITUTE SHEATHING SIMILAR SNOW LOAD SLAB ON GRADE SPACE OR SPACING SQUARE SQUARE SQUARE SQUARE SQUARE STIFFENER STEEL STRUCTUR(E)(AL) TOP & BEAM ELEVATION TOP OF DECK ELEVATION TEMPORARY
RC RD REINF REQ('D) REV RTU SCHED SDI SHT SHTG SIM SL SOG SPA SQ SQ(FT) STD STIFF STL STRUCT T&B T/ TBE TDE TEMP TFE	REINFORCED CONCRETE ROOF DRAIN REINFORCING, REINFORCEMENT REQUIRE(D) REVIS(E)(ED)(ION) ROOF TOP UNITS SCHEDULE STEEL DECK INSTITUTE SHEATHING SIMILAR SIMILAR SNOW LOAD SLAB ON GRADE SPACE OR SPACING SQUARE SQUARE SQUARE SQUARE FOOT/FEET STANDARD STIFFENER STEEL STRUCTUR(E)(AL) TOP & BEAM ELEVATION TOP OF BEAM ELEVATION TOP OF FOOTING ELEVATION
RC RD REINF REQ('D) REV RTU SCHED SDI SHT SHTG SIM SL SOG SPA SQ SPA SQ SPA SQ STD STD STD STIFF STL STRUCT T&B T/ TBE TDE TEMP TFE THRD	REINFORCED CONCRETE ROOF DRAIN REINFORCING, REINFORCEMENT REQUIRE(D) REVIS(E)(ED)(ION) ROOF TOP UNITS SCHEDULE STEEL DECK INSTITUTE SHEATHING SIMILAR SNOW LOAD SLAB ON GRADE SPACE OR SPACING SQUARE SQUARE SQUARE FOOT/FEET STANDARD STIFFENER STEEL STEEL STRUCTUR(E)(AL) TOP OF TOP OF BEAM ELEVATION TOP OF FOOTING ELEVATION THEAD(ED)
RC RD REINF REQ('D) REV RTU SCHED SDI SHT SHTG SIM SL SOG SPA SQ SQ(FT) STD STD STIFF STL STRUCT T&B T/ TBE TDE TEMP TFE THRD TJE	REINFORCED CONCRETE ROOF DRAIN REINFORCING, REINFORCEMENT REQUIRE(D) REVIS(E)(ED)(ION) ROOF TOP UNITS SCHEDULE STEEL DECK INSTITUTE SHEATHING SIMILAR SNOW LOAD SLAB ON GRADE SPACE OR SPACING SQUARE SQUARE SQUARE FOOT/FEET STANDARD STIFFENER STEEL STRUCTUR(E)(AL) TOP & BEAM ELEVATION TOP OF BEAM ELEVATION TOP OF FOOTING ELEVATION THREAD(ED) TOP OF JOIST ELEVATION
RC RD REINF REQ('D) REV RTU SCHED SDI SHT SHTG SIM SL SOG SPA SQ SQ SQ SPA SQ SQ SQ STIFF STL STD STIFF STL STRUCT T&B T/ TBE TDE TDE TEMP TFE THRD TJE TLE	REINFORCED CONCRETEROOF DRAINREINFORCING, REINFORCEMENTREQUIRE(D)REVIS(E)(ED)(ION)ROOF TOP UNITSSCHEDULESTEEL DECK INSTITUTESHEATHINGSIMILARSNOW LOADSLAB ON GRADESPACE OR SPACINGSQUARESQUARESQUARESTEELSTEELSTEELSTRUCTUR(E)(AL)TOP OFTOP OF BEAM ELEVATIONTOP OF FOOTING ELEVATIONTHREAD(ED)TOP OF LEDGE ELEVATIONTOP OF LEDGE ELEVATIONTOP OF LEDGE ELEVATION
RC RD REINF REQ('D) REV RTU SCHED SDI SHT SHTG SIM SL SOG SPA SQ SQ SPA SQ SQ STD STD STD STD STIC STL TEMP TEMP TFE THRD TJE TLE TME	REINFORCED CONCRETE ROOF DRAIN REINFORCING, REINFORCEMENT REQUIRE(D) REVIS(E)(ED)(ION) ROOF TOP UNITS SCHEDULE STEEL DECK INSTITUTE SHEATHING SIMILAR SNOW LOAD SLAB ON GRADE SPACE OR SPACING SQUARE SQUARE SQUARE SQUARE SQUARE STIFFENER STEEL STRUCTUR(E)(AL) TOP & BEAM ELEVATION TOP OF DECK ELEVATION TOP OF FOOTING ELEVATION THREAD(ED) TOP OF MASONRY ELEVATION TOP OF MASONRY ELEVATION
RC RD REINF REQ('D) REV RTU SCHED SDI SHT SHTG SIM SL SOG SPA SQ SQ(FT) STD STD STIFF STL STRUCT T&B T/ TBE TJE TEMP TFE THRD TJE TLE TME TO SD SD SD SD SD SD SD SD SD SD	REINFORCED CONCRETEROOF DRAINREINFORCING, REINFORCEMENTREQUIRE(D)REVIS(E)(ED)(ION)ROOF TOP UNITSSCHEDULESTEEL DECK INSTITUTESHEATHINGSIMILARSNOW LOADSLAB ON GRADESPACE OR SPACINGSQUARESQUARE FOOT/FEETSTEELSTEELSTEELSTEELSTRUCTUR(E)(AL)TOP OFTOP OF BEAM ELEVATIONTOP OF FOOTING ELEVATIONTOP OF FOOTING ELEVATIONTOP OF LEDGE ELEVATIONTOP OF MASONRY ELEVATIONTOP OFTOP OF MASONRY ELEVATIONTOP OF
RC RD REINF REQ('D) REV RTU SCHED SDI SHT SHTG SIM SL SOG SPA SQ SQ(FT) STD STIFF STL STRUCT T&B T/ TBE TJE TEMP TFE THRD TJE TLE TME TO TO SG SCHED SDI SDI SDI SDI SDI SDI SDI SD	REINFORCED CONCRETEROOF DRAINREINFORCING, REINFORCEMENTREQUIRE(D)REVIS(E)(ED)(ION)ROOF TOP UNITSSCHEDULESTEEL DECK INSTITUTESHEETSHEATHINGSIMILARSNOW LOADSLAB ON GRADESPACE OR SPACINGSQUARESQUARESQUARESTEELSTEELSTRUCTUR(E)(AL)TOP OFTOP OF BEAM ELEVATIONTOP OF FOOTING ELEVATIONTOP OF FOOTING ELEVATIONTOP OF JOIST ELEVATIONTOP OF LEDGE ELEVATIONTOP OFTOP OF MASONRY ELEVATIONTOP OFTOP OFTOP OFTOP OF STEEL
RC RD REINF REQ('D) REV RTU SCHED SDI SHT SHTG SIM SL SOG SPA SQ SQ(FT) STD STD STD STIFF STL STRUCT T&B T/ TBE T/ TBE T/ TBE TDE TEMP TFE THRD TJE TLE TME TO TOS TPG	REINFORCED CONCRETE ROOF DRAIN REINFORCING, REINFORCEMENT REQUIRE(D) REVIS(E)(ED)(ION) ROOF TOP UNITS SCHEDULE STEEL DECK INSTITUTE SHEET SHEATHING SIMILAR SNOW LOAD SLAB ON GRADE SPACE OR SPACING SQUARE SQUARE SQUARE SQUARE SQUARE SQUARE STIFFENER STEEL STRUCTUR(E)(AL) TOP & BEAM ELEVATION TOP OF BEAM ELEVATION TOP OF FOOTING ELEVATION TOP OF FOOTING ELEVATION TOP OF JOIST ELEVATION TOP OF JOIST ELEVATION TOP OF MASONRY ELEVATION TOP OF MASONRY ELEVATION TOP OF STEEL TOP OF STEEL TOP OF STEEL TOP OF STEEL TOP OF STEEL TOP OF STEEL
RC RD REINF REQ('D) REV RTU SCHED SDI SHT SHTG SIM SL SOG SPA SQ SPA SQ SPA SQ STD STD STD STD STIFF STL STRUCT T&B T/ TBE TJE TEMP TFE THRD TFE THRD TJE TLE TME TO TOS TPG TRTD	REINFORCED CONCRETE ROOF DRAIN REINFORCING, REINFORCEMENT REQUIRE(D) REVIS(E)(ED)(ION) ROOF TOP UNITS SCHEDULE STEEL DECK INSTITUTE SHEET SHEATHING SIMILAR SNOW LOAD SLAB ON GRADE SPACE OR SPACING SQUARE SQUARE SQUARE SQUARE SQUARE STIFFENER STEEL STRUCTUR(E)(AL) TOP OF BEAM ELEVATION TOP OF BEAM ELEVATION TOP OF FOOTING ELEVATION TOP OF FOOTING ELEVATION TOP OF FOOTING ELEVATION TOP OF JOIST ELEVATION TOP OF JOIST ELEVATION TOP OF MASONRY ELEVATION TOP OF STEEL TOP OF STEEL TOP OF STEEL TOPPING
RC RD REINF REQ('D) REV RTU SCHED SDI SHT SHTG SIM SL SOG SPA SQ SQ(FT) STD STIFF STL STRUCT T&B T/ TBE TJE TEMP TFE THRD TFE THRD TJE TLE TME TO TOS TPG TRD TS	REINFORCED CONCRETEROOF DRAINREINFORCING, REINFORCEMENTREQUIRE(D)REVIS(E)(ED)(ION)ROOF TOP UNITSSCHEDULESTEEL DECK INSTITUTESHEATHINGSIMILARSNOW LOADSLAB ON GRADESPACE OR SPACINGSQUARESQUARESQUARESTEELSTEELSTEELSTIFFENERSTEELSTRUCTUR(E)(AL)TOP OFTOP OF BEAM ELEVATIONTOP OF FOOTING ELEVATIONTOP OF FOOTING ELEVATIONTOP OF FOOTING ELEVATIONTOP OF LEDGE ELEVATIONTOP OF JOIST ELEVATIONTOP OF STEELTOP OF STEELTOP OF STEELTOP OF STEELTOP OF STEELTOP OF STEELTOP OF STEELTOPPINGTREATEDTHICKENED SLAB
RC RD REINF REQ('D) REV RTU SCHED SDI SHT SHTG SIM SL SOG SPA SQ SQ(FT) STD STD STIFF STL STRUCT T&B T/ TBE TDE TEMP TFE THRD TFE THRD TJE TLE TME TO TOS TPG TSE	REINFORCED CONCRETEROOF DRAINREINFORCING, REINFORCEMENTREQUIRE(D)REVIS(E)(ED)(ION)ROOF TOP UNITSSCHEDULESTEEL DECK INSTITUTESHEATHINGSIMILARSNOW LOADSLAB ON GRADESPACE OR SPACINGSQUARESQUARESQUARE FOOT/FEETSTRUCTUR(E)(AL)TOP OFTOP OF BEAM ELEVATIONTOP OF DECK ELEVATIONTOP OF FOOTING ELEVATIONTOP OF FOOTING ELEVATIONTOP OF JOIST ELEVATIONTOP OF STEELTOP OF STEELTOP OF STEELTOP OF STEELTOP OF STEELTOP OF JOIST ELEVATIONTOP OF STEELTOP OF SLAB ELEVATION
RC         RD         REINF         REQ('D)         REV         RTU         SCHED         SDI         SHT         SHTG         SIM         SL         SQ(FT)         STD         STIFF         STL         STRUCT         T&B         T/         TBE         TDE         TEMP         TFE         THRD         TJE         TME         TOG         TOS         TPG         TSE         TWE	REINFORCED CONCRETE ROOF DRAIN REINFORCING, REINFORCEMENT REQUIRE(D) REVIS(E)(ED)(ION) ROOF TOP UNITS SCHEDULE STEEL DECK INSTITUTE SHEATHING SIMILAR SNOW LOAD SLAB ON GRADE SPACE OR SPACING SQUARE SQUARE SQUARE SQUARE SQUARE STEEL STRUCTUR(E)(AL) TOP OF TOP OF BEAM ELEVATION TOP OF DECK ELEVATION TOP OF FOOTING ELEVATION TOP OF FOOTING ELEVATION TOP OF LEDGE ELEVATION TOP OF STEEL TOP OF SLAB ELEVATION TOP OF SLAB ELEVATION TOP OF WALL ELEVATION TOP OF WALL ELEVATION
RC         RD         REINF         REQ('D)         REV         RTU         SCHED         SDI         SHT         SHTG         SIM         SL         SOG         SPA         SQ         STD         STIFF         STL         STRUCT         T&B         T/         TBE         TDE         TEMP         TFE         THRD         TJE         TME         TO         TOS         TPG         TSE         TWE         TYP	REINFORCED CONCRETE ROOF DRAIN REINFORCING, REINFORCEMENT REQUIRE(D) REVIS(E)(ED)(ION) ROOF TOP UNITS SCHEDULE STEEL DECK INSTITUTE SHEATHING SIMILAR SNOW LOAD SLAB ON GRADE SPACE OR SPACING SQUARE SQUARE SQUARE SQUARE SQUARE STIFFENER STEEL STRUCTUR(E)(AL) TOP & BOTTOM TOP OF TOP OF BEAM ELEVATION TOP OF DECK ELEVATION TOP OF FOOTING ELEVATION TOP OF FOOTING ELEVATION TOP OF JOIST ELEVATION TOP OF MASONRY ELEVATION TOP OF STEEL TOP OF SLAB ELEVATION TOP OF SLAB ELEVATION TOP OF WALL ELEVATION TOP
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RC         RD         REINF         REQ ('D)         REV         RTU         SCHED         SDI         SHT         SHTG         SIM         SL         SOG         SPA         SQ         STD         STIFF         STL         STRUCT         T&BE         TDE         TEMP         TEE         THRD         TJE         TME         TOS         TPG         TSE         TWE         TYP         UNO         VERT         W/         W/O         WF         WGHT	REINFORCED CONCRETE ROOF DRAIN REINFORCING, REINFORCEMENT REQUIRE(D) REVIS(E)(ED)(ION) ROOF TOP UNITS SCHEDULE STEEL DECK INSTITUTE SHEET SHEATHING SIMILAR SNOW LOAD SLAB ON GRADE SPACE OR SPACING SQUARE SQUARE SQUARE SQUARE SQUARE STELL STIFFENER STEEL STRUCTUR(E)(AL) TOP OF TOP OF BEAM ELEVATION TOP OF DECK ELEVATION TOP OF FOOTING ELEVATION TOP OF FOOTING ELEVATION TOP OF JOIST ELEVATION TOP OF JOIST ELEVATION TOP OF STEEL TOP OF SLAB ELEVATION TOP OF SLAB ELEVATION STUCTURAL TEEL STUCTURAL TEEL STUCTURA



![](_page_3_Figure_0.jpeg)

FOUNDATION/	SLAB LEGEND
F# (-#' - #'')	F# - DENOTES FOOTING MARK (SEE FOOTING SCHEDULE) (#' - #'') - DENOTES TOP OF FOOTING ELEVATION WITH RESPECT TO DATUM ELEVATION
P# (#' - #'')	P# - DENOTES PIER MARK (SEE PIER SCHEDULE) (#' - #'') - DENOTES TOP OF PIER ELEVATION WITH RESPECT TO DATUM ELEVATION = 0'
CW# MW#	CW# - DENOTES CONCRETE WALL MARK (SEE FOUNDATION WALL AND/OR WALL SCH MW# - DENOTES MASONRY WALL MARK (SEE MASONRY WALL SCHEDULE)
WF#	WF# - DENOTES WALL FOOTING MARK (SEE WALL FOOTING SCHEDULE)
#'-#"	#' - #" - DENOTES TOP OF WALL FOOTING ELEVATION WITH RESPECT TO DATUM ELEVA
[#'-#'']	# - $#$ - Denotes top of wall elevation with respect to datum elevation = 0'
SOG#	SOG# - DENOTES SLAB-ON-GRADE MARK (SEE SLAB-ON-GRADE SCHEDULE)
· <b>·············</b>	#' - #" - DENOTES TOP OF CONCRETE ELEVATION WITH RESPECT TO DATUM ELEVATION
	CONTROL/CONSTRUCTION LINE
F.D.	FLOOR DRAIN (SEE MECH AND ARCH)
<b>&gt;</b>	SLOPE AWAY

DN = 0' - 0'' - 0" CHEDULE)

/ATION = 0' - 0"

DN = 0' - 0''

 $\mathcal{S}$ 

![](_page_3_Figure_8.jpeg)

![](_page_4_Figure_0.jpeg)

![](_page_4_Figure_4.jpeg)

![](_page_5_Figure_0.jpeg)

![](_page_5_Figure_2.jpeg)

![](_page_5_Figure_3.jpeg)

AN LEGEND IDARY EXIT) TION / AREA OF REFUGE PANTS PER TABLE 1004.1.2 BER OF OCCUPANTS) IR DOOR BASED ON IR STAIRS BASED ON ART - END)	19 Front St. · Newburgh · New York 12550-7601 845 · 561 · 3179 w w w . c s a r c h p c . c o m	CSARCH
NET IN SPACE	Consultant	
TION NOTES		
TED ZONES APPROX. 30,000 SF		
IN SPRINKLERED RIDORS SHALL BE THE SPREAD OF SMOKE PACES. DOOR CLOSERS AND RE REQUIRED		ASE 1
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960 1999	ect Title	
EMOLITION	e e	
SCRIPTION ST-TYPE BUS LIFT SYSTEM IN ITS PIT, CONTROLS, EQUIPMENT, S LIFT PIT FOUNDATION SYSTEM. RUCTURAL DRAWINGS. DOR SLAB TO EXTENTS TE WITH STRUCTURAL E FURNITURE, EQUIPMENT, BE CAREFULLY REMOVED AND ATED TO ACCOMMODATE FLOOR TING NON-MOVABLE OR BUILT-IN NT, SHELVING, ETC. SHALL	Expiration Date: 0	02/28/2025
HALT OR CONCRETE TO EPARATOR TO ACCOMMODATE CH DRAIN PIPING WORK. NCRETE APRON IN ITS ENTIRETY. PHALT PAVEMENT AS REQUIRED W WORK. IEW WORK	Drawn By:       Checked By:       Proj. #:       62-08-       CSArch Proj. #:       Issued for Bid:	RIPTION CSA CSA 03-04-5-002-011 197-2201.01 08/18/23
OLS, EQUIPMENT, AND ROVIDED BY BUS LIFT VENDOR. RUCTURAL DRAWINGS. T PIT FOUNDATION SYSTEM. RUCTURAL DRAWINGS. ETE SLAB TO EXTENTS TE WITH STRUCTURAL URNITURE, EQUIPMENT, WAS TEMPORARILY RELOCATED F THE OWNER. ETE EQUIPMENT PAD AS	Sheet Title FIRST FLO PLANS A DETAI	OOR AND LS
MODATE BUS LIFT CONTROL E FINAL LOCATION IN THE FIELD. PREVIOUSLY TRENCHED AND ENT. REFER TO TRENCHING AND ADDITIONAL INFORMATION. IN GRADE CONCRETE APRON. /EMENT PATCHING AROUND N AS REQUIRED.	Sheet No. HBC A10 CONSTRUCTION DO	DCUMENTS

	Plumbing Fixture Schedule										
FIXTURE	DESCRIPTION	PIPING CONNECTION			WATER SUPPLY	, DRAINAGE	ADA	ELECTRONIC	MANUFACTURER/MODEL	DEMARKS	
MARK		H.W.	C.W.	WASTE	VENT	FIXTURE UNITS		(Y/N)	(Y/N)	(OR ACCEPTABLE EQUAL)	
P-1	TRENCH DRAIN	-	-	4	2	-	2	-	-	12" WIDE PRE-SLOPED HDPE TRENCH DRAIN TYPICAL OF ZURN MODEL #Z882; FURNISH WITH FIBERGLASS CLASS-F GRATE; ASSEMBLE SECTIONS TO HAVE CONTINUOUS SLOPE	INSTALL PER MANUFACTURER'S REQUIREMENTS
P-2	FLOOR DRAIN	-	-	4	2	-	2	-	-	12-1/2" SQUARE TOP HEAVY DUTY DRAIN W/ 4" PIPE CONNECTION TYPICAL OF ZURN MODEL #Z610; FURNISH WITH TRAP SEAL DEVICE	INSTALL PER MANUFACTURER'S REQUIREMENTS
P-3	SUMP PUMP	-	-	1-1/2	-	-	-	-	-	SUBMERSIBLE PUMP TYPICAL OF LIBERTY PUMPS ELV-SERIES W/ OILTECTOR CONTROL; MODEL ELV250; 1/3 HP, 115V, 1¢; PROVIDE W/ CONTROL PANEL & REMOTE ALARM	INSTALL PUMPS IN VEHICLE LIFT PIT; PROVIDE AS COMPLETE SYSTEM W/ ALL CONTROLS

![](_page_6_Figure_1.jpeg)

![](_page_6_Figure_2.jpeg)

\P101 / N.T.S.

P101 N.T.S.

![](_page_6_Figure_4.jpeg)

INSULATION BETWEEN PIPE AND SHIELD. MAX. SPACING BETWEEN MIN. ROD

PIPE Ø (IN.)	PIPE Ø (IN.) HANGERS (F			
	STEEL PIPE	COPPER PIPE	CPVC	(IN.)
1/2 THRU 1	7	5	5	3/8
1-1/2 THRU 2	9	8	6	3/8
2-1/2	11	9	7.5	1/2
3	12	10	7.5	1/2
4	14	12	8.5	5/8
6	17	14	9	3/4
8	19	16	10	7/8
10	22	18	10.5	7/8

![](_page_6_Figure_9.jpeg)

# Plumbing Legend:

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C.O.T.G.

(P-X)

DOMESTIC COLD WATER SUPPLY
110 °F DOMESTIC HOT WATER SUPPLY
140 °F DOMESTIC HOT WATER SUPPLY
HOT WATER RETURN
SANITARY SEWER, ABOVE GRADE
SANITARY SEWER, BELOW GRADE
GREASE WASTE, BELOW GRADE
PLUMBING VENT
STORM WATER, ABOVE GRADE
STORM WATER, BELOW GRADE
NATURAL GAS PIPING
DIRECTION OF PIPE SLOPE (DOWN)
CONCENTRIC REDUCER OR INCREASER
ECCENTRIC REDUCER
TOP CONNECTION, 45° OR 90°
BOTTOM CONNECTION, 45° OR 90°
SIDE CONNECTION
CAPPED OUTLET
RISE OR DROP IN PIPE
UNION
PIPE UP
PIPE DOWN
POINT OF CONNECTION BETWEEN NEW AND EXISTING WORK
STRAINER
HOSE BIB
SOLENOID VALVE
GATE VALVE
GLOBE VALVE
CHECK VALVE
BUTTERFLY VALVE
FULL PORT BALL VALVE
PRESSURE GAUGE
CLEANOUT W/ DECK PLATE
CLEANOUT
WALL CLEANOUT
CLEANOUT TO GRADE
PLUMBING FIXTURE MARK

![](_page_6_Figure_13.jpeg)

Typical Shared Trench Detail \P101 / N.T.S.

# Plumbing Notes:

- 1. ALL MATERIALS AND EQUIPMENT ARE TO BE NEW, UNUSED, AND FREE FROM DEFECTS OF ANY KIND. THE BASIS OF QUALITY SHALL BE THE LATEST REVISION OF ASTM, ANSI, OR OTHER ACCEPTABLE STANDARDS.
- 2. THESE DRAWINGS ARE DIAGRAMMATIC, AND INDICATE GENERAL ARRANGEMENT OF WORK. THE CONTRACTOR SHALL BE RESPONSIBLE TO HAVE REVIEWED THE SITE FOR HIS WORK PRIOR TO HAVING SUBMITTED HIS PROPOSAL. NO ADDITIONAL COMPENSATION WILL BE ALLOWED FOR CONDITIONS FOUND DURING THE COURSE OF THE CONTRACT.
- 3. THE CONTRACTOR SHALL COORDINATE HIS WORK WITH THAT OF ALL OTHER TRADES. 4. ALL WORK INCLUDING LABOR AND MATERIALS SHALL BE FULLY GUARANTEED FOR ONE (1) YEAR FROM THE DATE OF PAYMENT AND FINAL ACCEPTANCE BY THE OWNER AND ENGINEER.
- 5. ALL CUTTING, PATCHING, FIRE-STOPPING, AND SURFACE RESTORATION IN CONNECTION WITH THIS TRADE SHALL BE COMPLETED BY THIS CONTRACTOR.
- 6. A MINIMUM OF FOUR (4) COPIES OF SHOP DRAWINGS SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL PRIOR TO ORDERING AND INSTALLATION OF THE EQUIPMENT AND/OR MATERIALS. BY SUBMITTING SHOP DRAWINGS, THE CONTRACTOR REPRESENTS THAT ACTUAL FIELD CONDITIONS ARE VERIFIED BY HIM AND ARE REFLECTED ON HIS SUBMITTALS.
- 7. THIS CONTRACTOR SHALL PAY ALL FEES, GIVE ALL NOTICES, FILE ALL NECESSARY DRAWINGS, AND OBTAIN ALL PERMITS, INSPECTIONS AND CERTIFICATES OF APPROVAL REQUIRED IN CONNECTION WITH WORK UNDER THIS CONTRACT.
- 6. ALL WORK IN ASSOCIATION WITH THIS CONTRACT SHALL BE COMPLETED IN STRICT COMPLIANCE WITH THE 2020 BUILDING CODE OF NEW YORK STATE, 2020 PLUMBING CODE OF NEW YORK STATE, 2020 FUEL GAS CODE OF NEW YORK STATE & 2020 ENERGY CONSERVATION CONSTRUCTION CODE OF NEW YORK STATE.
- 7. WHERE THE PROJECT INVOLVES A GAS SERVICE, THIS CONTRACTOR SHALL BE RESPONSIBLE FOR ALL COORDINATION, APPLICATIONS AND FEES OF ALL WORK ASSOCIATED WITH THE LOCAL GAS UTILITY COMPANY. ALL WORK INVOLVING THE GAS UTILITY COMPANY SHALL BE COMPLETED IN ACCORDANCE WITH THEIR REGULATIONS AND GUIDELINES.
- 8. ALL DOMESTIC COLD AND HOT WATER PIPING AND FITTINGS ARE TO BE INSULATED WITH 1" THICK RIGID ONE-PIECE MOLDED SECTIONAL FIBERGLASS PIPE COVERING WITH UNIVERSAL JACKET. ALL JOINTS ARE TO BE COMPLETELY SEALED A MINIMUM OF 6" BEYOND JOINT ENDS.
- 9. ALL PIPING SHALL BE PROPERLY SUPPORTED AND ROUTED PARALLEL OR PERPENDICULAR TO BUILDING WALLS. THE CONTRACTOR SHALL FURNISH AND INSTALL ALL SUPPORT HANGERS AND MISCELLANEOUS METALS REQUIRED FOR PROPER INSTALLATION OF WORK.
- 10. PIPING SYSTEM MATERIALS ARE TO BE AS FOLLOWS:
- 10.1. GAS DISTRIBUTION SCHEDULE 40 BLACK STEEL PIPE WITH MALLEABLE IRON THREADED FITTINGS & THREAD JOINT COMPOUND FOR PIPING UP THRU 4" DIAMETER. JOINTS MUST BE WELDED FOR PIPING OVER 4" DIAMETER. WHERE PIPING IS TO BE INSTALLED BELOW GRADE, PIPING AND FITTINGS ARE TO BE COATED WITH A CORROSION-RESISTENT MATERIAL.
- 11. ALL EXPOSED PIPING, FITTINGS, TRAPS, ESCUTCHEONS, VALVES, ETC. SHALL BE CHROME PLATED.
- 12. SLOPE SANITARY DRAINAGE PIPING 2" DIAMETER AND SMALLER NOT LESS THAN 1/4" PER FOOT. SLOPE SANITARY DRAINAGE PIPING OVER 2" DIAMETER NOT LESS THAN 1/8" PER FOOT.
- 13. INSTALL A CLEANOUT AT THE BASE OF EACH SOIL STACK, AT EACH CHANGE IN DIRECTION, AT INTERVALS NOT OVER 50 FEET AND ELSEWHERE AS SHOWN ON DRAWINGS OR REQUIRED BY CODE.
- 14. PROVIDE EXPOSED PIPING WITH CHROME PLATED CAST BRASS ESCUTCHEON WITH SET SCREW WHERE PENETRATING FLOORS, CEILINGS, WALLS OR PARTITIONS.
- 15. TEST PIPING AND PROVE TIGHT FOR AT LEAST TWO HOURS IN ACCORDANCE WITH REQUIREMENTS OF AUTHORITIES HAVING JURISDICTION AND/OR AS SPECIFIED. TEST SHALL BE PERFORMED IN THE PRESENCE OF THE ENGINEER AND LOCAL INSPECTOR. TEST SHALL BE REPEATED IF NECESSARY UNTIL FINAL APPROVAL OF SYSTEM IS OBTAINED.
- 15.1. WATER & GAS PIPING TO BE AIR-PRESSURE TESTED TO 1-1/2 TIMES MAXIMUM WORKING PRESSURE.
- 15.2. DRAINAGE, WASTE & VENT PIPING TO BE TESTED BY FILLING THE SYSTEM WITH WATER TO 10-FEET ABOVE HIGHEST POINT.
- 16. SUPPORT HORIZONTAL PIPING UTILIZING A SPACING PER PIPING MANUFACTURER'S REQUIREMENTS.
- 17. INSTALL VALVES ON THE ENTIRE DISTRIBUTION SYSTEM, SO LOCATED AS TO GIVE COMPLETE CONTROL TO ALL FIXTURES AND EQUIPMENT.
- 18. INSTALL DRAIN VALVES AT BASE OF ALL RISERS AND AT LOW POINTS OF PIPING SYSTEM. 19. THE CONTRACTOR IS RESPONSIBLE TO TEST ALL EQUIPMENT, PIPING, FIXTURES, AND
- SYSTEMS INSTALLED UNDER THIS CONTRACT TO ENSURE PROPER OPERATION PRIOR TO FINAL ACCEPTANCE BY THE OWNER AND ENGINEER.
- 20. THE CONTRACTOR IS RESPONSIBLE TO DETERMINE WHETHER SPECIAL LICENSING IS REQUIRED IN ORDER TO PERFORM THE REQUIRED WORK IN THE MUNICIPALITY WHERE THE PROJECT IS LOCATED. IF THE CONTRACTOR CANNOT OBTAIN THE REQUIRED LICENSING TO COMPLETE THE WORK WITHIN THE PROJECT SCHEDULE, THEN THE CONTRACTOR SHALL NOT BE PERMITTED TO BID ON THIS PROJECT.
- 21. CONTRACTOR IS RESPONSIBLE TO CREATE AND SUBMIT RED-LINE "AS-BUILT" PLANS TO THE ENGINEER AT THE END OF THE PROJECT. AS-BUILT PLANS SHALL ACCURATELY REPRESENT THE SYSTEMS AS THEY WERE INSTALLED.

![](_page_6_Picture_42.jpeg)

![](_page_7_Figure_0.jpeg)

![](_page_7_Picture_1.jpeg)

Plumbing Demolition Plan PD201 Scale: 1/4" = 1'-0"

![](_page_7_Figure_4.jpeg)

![](_page_8_Figure_0.jpeg)

1 P201 Scale: 1/4" = 1'-0"

Plumbing Plan

![](_page_8_Figure_5.jpeg)

120/208V 3Ø 4W+G	BUS RATING: 225A								MLC	
CONNECTED LOAD	CONDUCTORS	CKT. BREAKER AMPACITY	POSITION	L1 KVA	L2 KVA	L3 KVA	POSITION	CKT. BREAKER AMPACITY	CONDUCTORS	CONNECTED LOAD
EXISTING CIRCUIT	-	20	1	•			2	20	-	EXISTING CIRCUIT
EXISTING CIRCUIT	-	20	3	2	•		4	20	-	EXISTING CIRCUIT
EXISTING CIRCUIT	-	20	5			•	6	20	-	EXISTING CIRCUIT
EXISTING CIRCUIT	-	20	7	•		~	8	20	-	EXISTING CIRCUIT
EXISTING CIRCUIT	-	20	9		•		10	20	-	EXISTING CIRCUIT
EXISTING CIRCUIT	-	20	11			•	12	20	-	EXISTING CIRCUIT
			13	• •			14	20	-	EXISTING CIRCUIT
EXISTING CIRCUIT	-	30	15		•		16	20	-	EXISTING CIRCUIT
			17				18			
	-	30	19				20	20	-	EXISTING CIRCUIT
EXISTING CIRCUIT			21		•		22			
			23			• / •	24	20	-	EXISTING CIRCUIT
EXISTING CIRCUIT	-	20	25	• / •			26	50		
EXISTING CIRCUIT	-	20	27		. /.		28	50	-	
EXISTING CIRCUIT	-	20	29			• / •	30	20	-	EXISTING CIRCUIT
			31	•/.			32			
LIFT	(3) #8 CU & (1) #10 GND.	40	33		. /.		34	40	(3) #8 CU & (1) #10 GND.	LIFT
			35			• / •	36			
SUMP PUMP	(2) #12 CU & (1) #12 GND.	20	37	• / •			38			
SUMP PUMP	(2) #12 CU & (1) #12 GND.	20	39		• /		40	50	(3) #6 CU & (1) #10 GND.	AIR COMPRESSOR
EXISTING SPACE	-	-	41			· /	42			
EXISTING SQUARE D NQOD	EXISTING SQUARE D NQOD									

![](_page_9_Picture_1.jpeg)

![](_page_9_Picture_2.jpeg)

![](_page_9_Picture_3.jpeg)

Bus Lift Control Console Isometric Detail

 PROVIDE NEW CIRCUIT BREAKERS FOR ALL NEW OR MODIFIED CIRCUITS; BREAKERS SHALL MATCH EXISTING TYPE AND RATING • PANEL SCHEDULE SHOWN BASED ON EXISTING DIRECTORY,

CONTRACTOR SHALL VERIFY IN FIELD & ADJUST CIRCUIT LAYOUT AS NEEDED BASED ON AVAILABLE POSITIONS

![](_page_9_Figure_8.jpeg)

# ELECTRICAL LEGEND:

ଜ	MOTOR						
.€ T							
Ť							
R							
(							
42	DISCONNECT SWITCH, FUSED						
4	DISCONNECT SWITCH, UNFUSED						
4	STARTER, COMBINATION WITH DISCOM	NNECT SWITCH					
	STARTER OR MOTOR CONTROLLER						
$\bigcirc$	METER						
⊜	20A 120V DUPLEX CEILING MOUNTED F	RECEPTACLE					
ŧ	20A 120V DUPLEX WALL MOUNTED REC OTHERWISE NOTED	CEPTACLE; 18" A.F.F. UNLESS					
#	20A 120V DUPLEX WALL MOUNTED REC FAULT CIRCUIT INTERRUPTER	CEPTACLE WITH GROUND					
<b>#</b>	20A 120V QUADRAPLEX RECEPTACLE						
-0	WALL MOUNTED SPECIAL PURPOSE RI	ECEPTACLE					
€ <sub>USB</sub>	20A 120V WALL MOUNTED USB CHARG HUBBELL USB20X OR ACCEPTABLE EQ	ER RECEPTACLE TYPICAL OF					
₽	FLOOR BOX WITH STAINLESS COVER T #OB-1-SP OR ACCEPTABLE EQUAL; PU RATED WATER PROOF (WHEN IN CLOS E60120 GFCI RECEPTACLE (UNLESS O	TYPICAL OF LEW EECTRIC SH BUTTON OPEN; FULLY IP66 SED POSITION); W/ 20A 125V THERWISE NOTED)					
$\Delta_{M}$	WALL PHONE OUTLET MTD. 48" A.F.F.; ABOVE CEILING W/ PULL CORD	3/4" EMT CDT. IN WALL TO					
$\diamond$	WALL BOX FOR TELEVISION CONNECT TO ABOVE CEILING W/ PULL CORD	WALL BOX FOR TELEVISION CONNECTION; 1-1/4" EMT CDT. IN WALL TO ABOVE CEILING W/ PULL CORD					
¥	TELEPHONE/DATA COMMUNICATION B WALL TO ABOVE CEILING W/ PULL COF	OX W/ (2) 3/4" EMT CDT. IN RD; NO FACE PLATE					
ŧ	BRANCH CIRCUIT HOMERUN; LINES IN NEUTRAL, AND SWITCH LEG CONDUCT GROUNDING CONDUCTOR SHALL BE F HOMERUN; NOT SHOWN	NDICATE NUMBER OF CIRCUITS, TORS; ONE SEPARATE PROVIDED FOR EACH					
\$2	SWITCH BLANK = SINGLE POLE 3 = THREE-WAY D = DIMMER P = WITH PILOT LIGHT T = TIMER OPERATED X = EXPLOSION PROOF	2 = DOUBLE POLE 4 = FOUR-WAY K = KEY OPERATED PB= PUSH BUTTON WP= WEATHER PROOF OC= OCCUPANCY SENSOR					
$\boxtimes \triangleleft$	HORN/STROBE DEVICE, ONE ASSEMBI OTHERWISE NOTED; 15 CANDELA UNL	LY; MTD. 80" A.F.F. UNLESS ESS OTHERWISE NOTED					
$\boxtimes$	STROBE DEVICE; MTD. 80" A.F.F. UNLE CANDELA UNLESS OTHERWISE NOTED	SS OTHERWISE NOTED; 15					
\$	MANUAL PULL STATION; MTD. 48" A.F.F	₹.					
<b>I</b>	WATER FLOW SWITCH						
\$	VALVE TAMPER SWITCH						
Øx	DETECTOR; LETTER INDICATES AS FOLLOWS: BLANK = SMOKE DETECTOR P = PHOTOELECTRIC SMOKE M = MULTIPLE STATION SMOKE ALARM D = PHOTOELECTRIC DUCT SMOKE DETECTOR						
$\Theta_{R}$	RATE OF RISE HEAT DETECTOR, 135°F	-					
CO	CARBON MONOXIDE DETECTOR; MTD.	. 60" A.F.F.					
FACE	ADDRESSABLE FIRE ALARM CONTROL	- PANEL					

FIRE ALARM ANNUNCIATOR PANEL FAAP

# ELECTRICAL NOTES:

- 1. ALL MATERIALS AND EQUIPMENT ARE TO BE NEW, UNUSED, AND FREE FROM DEFECTS OF ANY KIND. THE BASIS OF QUALITY SHALL BE THE LATEST REVISION OF ASTM, ANSI, OR OTHER ACCEPTABLE STANDARDS.
- 2. THESE DRAWINGS ARE DIAGRAMMATIC, AND INDICATE GENERAL ARRANGEMENT OF WORK. THE CONTRACTOR SHALL BE RESPONSIBLE TO HAVE REVIEWED THE SITE FOR HIS WORK PRIOR TO HAVING SUBMITTED HIS PROPOSAL. NO ADDITIONAL COMPENSATION WILL BE ALLOWED FOR CONDITIONS FOUND DURING THE COURSE OF THE CONTRACT.
- 3. THE CONTRACTOR SHALL COORDINATE HIS WORK WITH THAT OF ALL OTHER TRADES.
- 4. ALL WORK INCLUDING LABOR AND MATERIALS SHALL BE FULLY GUARANTEED FOR ONE (1) YEAR FROM THE DATE OF PAYMENT AND FINAL ACCEPTANCE BY THE OWNER AND ENGINEER.
- 5. ALL CUTTING, PATCHING, FIRE-STOPPING, AND SURFACE RESTORATION IN CONNECTION WITH THIS TRADE SHALL BE COMPLETED BY THIS CONTRACTOR.
- 6. A MINIMUM OF FOUR (4) COPIES OF SHOP DRAWINGS SHALL BE SUBMITTED TO THE ARCHITECT FOR APPROVAL PRIOR TO ORDERING AND INSTALLATION OF THE EQUIPMENT AND/OR MATERIALS. BY SUBMITTING SHOP DRAWINGS, THE CONTRACTOR REPRESENTS THAT ACTUAL FIELD CONDITIONS ARE VERIFIED BY HIM AND ARE REFLECTED ON HIS SUBMITTALS.
- 7. THIS CONTRACTOR SHALL PAY ALL FEES, GIVE ALL NOTICES, FILE ALL NECESSARY DRAWINGS, AND OBTAIN ALL PERMITS, INSPECTIONS AND CERTIFICATES OF APPROVAL REQUIRED IN CONNECTION WITH WORK UNDER THIS CONTRACT.
- 8. EQUIPMENT AND MATERIALS FOR WHICH UNDERWRITERS LABORATORIES INC. (UL) PROVIDES PRODUCT LISTING SERVICE SHALL BE LISTED AND BEAR THE LISTING MARK.
- 9. ALL WORK IN ASSOCIATION WITH THIS CONTRACT SHALL BE COMPLETED IN STRICT COMPLIANCE WITH THE 2017 NATIONAL ELECTRIC CODE, 2020 BUILDING CODE OF NEW YORK STATE, 2020 FIRE CODE OF NEW YORK STATE & 2020 ENERGY CONSERVATION CONSTRUCTION CODE OF NEW YORK STATE.
- 10. ALL NEW LIGHTING FIXTURES SHALL BE INSTALLED FULLY LAMPED AND OPERABLE. THE CONTRACTOR SHALL TURN OVER TO THE OWNER SPARE LAMPS OF EVERY TYPE ON THE PROJECT IN AN AMOUNT NOT LESS THAN 20% OF THE TOTAL NUMBER OF EACH TYPE (MINIMUM 1 PER TYPE).
- 11. THIS CONTRACTOR SHALL BE RESPONSIBLE FOR ALL COORDINATION, APPLICATIONS AND FEES OF ALL WORK ASSOCIATED WITH THE LOCAL UTILITY COMPANY AND/OR THE TELEPHONE COMPANY. ALL WORK INVOLVING THE UTILITY COMPANY SHALL BE COMPLETED IN ACCORDANCE WITH THEIR REGULATIONS AND GUIDELINES.
- 12. ALL CONDUCTORS SHALL BE COPPER, SHALL NOT BE LESS THAN #12 AWG, AND SHALL NOT EXCEED 70 FEET FROM PANEL BOARD TO FURTHEST CONNECTION UNLESS OTHERWISE NOTED ON PLANS.
- 13. WIRING SHALL CONSIST OF METALLIC ARMORED CABLES (TYPE AC) INSTALLED WHERE CONCEALED IN FRAMED WALLS, CEILINGS, OR PERMITTED BY THE NEC. OTHER AREAS SHALL CONSIST OF INSULATED CONDUCTORS INSTALLED IN RIGID STEEL CONDUIT (RGS), ELECTRICAL METALLIC TUBING (EMT), INTERMEDIATE METAL CONDUIT (IMC), OR FLEXIBLE METALLIC ARMORED CABLE (GREENFIELD).
- 14. LIGHTING LOADS SHALL NOT BE COMBINED ON THE SAME CIRCUIT AS ANY OTHER ELECTRICAL LOADS.
- 15. CONTRACTOR SHALL BE RESPONSIBLE TO FURNISH & INSTALL ALL SMALL DETAILS AND INCIDENTAL WORK NOT SHOWN OR SPECIFIED, BUT WHICH CAN BE REASONABLY INFERRED AS REQUIRED FOR A COMPLETE AND OPERATING SYSTEM OF HIGH QUALITY MEETING ALL APPLICABLE CODES AND REGULATIONS.
- 16. FOR EACH NEW OR MODIFIED ELECTRICAL PANEL, THE CONTRACTOR SHALL PROVIDE A TYPE WRITTEN DIRECTORY CARD TO REFLECT ALL CIRCUITING. ADDITIONALLY, THE CONTRACTOR SHALL LABEL (WITH A PERMANENT MARKER OR LABEL) EACH RECEPTACLE ON THE INSIDE OF EACH FACE PLATE WITH PANEL AND CIRCUIT NUMBER DESIGNATION.
- 17. MINIMUM REQUIREMENT FOR EQUIPMENT GROUNDING SHALL BE GOVERNED BY THE NEC. ALL GROUNDS, BONDING, ETC. SHALL MEET THESE REQUIREMENTS. THE CONTRACTOR SHALL FURNISH AND INSTALL ANY AND ALL ITEMS NECESSARY TO MEET THESE REQUIREMENTS AT NO EXTRA COST, EVEN IF SUCH ITEMS ARE NOT DETAILED ON THE DRAWINGS.
- 18. ALL CONDUIT AND CABLE SHALL BE PROPERLY SUPPORTED AND ROUTED PARALLEL OR PERPENDICULAR TO BUILDING WALLS. THE CONTRACTOR SHALL FURNISH AND INSTALL ALL SUPPORT HANGERS AND MISCELLANEOUS METALS REQUIRED FOR PROPER INSTALLATION OF WORK.
- 19. THE CONTRACTOR IS RESPONSIBLE TO TEST ALL EQUIPMENT, WIRING, DEVICES, AND SYSTEMS INSTALLED UNDER THIS CONTRACT TO ENSURE PROPER OPERATION PRIOR TO FINAL ACCEPTANCE BY THE OWNER AND ENGINEER.
- 20. THE CONTRACTOR IS RESPONSIBLE TO DETERMINE WHETHER SPECIAL LICENSING IS REQUIRED IN ORDER TO PERFORM THE REQUIRED WORK IN THE MUNICIPALITY WHERE THE PROJECT IS LOCATED. IF THE CONTRACTOR CANNOT OBTAIN THE REQUIRED LICENSING TO COMPLETE THE WORK WITHIN THE PROJECT SCHEDULE, THEN THE CONTRACTOR SHALL NOT BE PERMITTED TO BID ON THIS PROJECT.

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	WIRE COLOR CODING TABLE								
PHASE	WIRES	VOLTAGE	L1	L2	L3	NEUTRAL	(		
1	2 (1)	120	BLACK	-	-	WHITE			
1	2 (1)	208	BLACK	RED	-	-			
1	3	120	BLACK	-	-	WHITE	0		
1	3	208	BLACK	RED	-	-	0		
3	4	208	BLACK	RED	BLUE	-	G		
3	5	208	BLACK	RED	BLUE	WHITE	C		
1	3	277	BROWN	-	-	GRAY	G		
1	3	480	BROWN	ORANGE	-	-	G		
3	4	480	BROWN	ORANGE	YELLOW	-	G		
3	5	480	BROWN	ORANGE	YELLOW	GRAY	C		
NOTES							_		

FOR DOUBLE INSULATED EQUIPMENT ONLY. GREEN/YELLOW MAY BE USED:

CONDUCTORS.

- GREEN/YELLOW SHALL BE GREEN WITH ONE OR MORE YELLOW STRIPES. - GREEN = 50 TO 70%, YELLOW = 50 TO 30%. - GREEN/YELLOW IS THE ONLY COLOR INTERNATIONALLY ACCEPTED FOR

USE AS AN EQUIPMENT GROUNDING CONDUCTOR. - GREEN OR GREEN/YELLOW <u>MUST</u>ONLY BE USED FOR GROUNDING

DEVICE MOUNTING HEIGHTS						
POWER RECEPTACLES (INTERIOR)	18" A.F.F.					
POWER RECEPTACLES (EXTERIOR)	36" A.F.G.					
POWER RECEPTACLES (@ COUNTER)	44" A.F.F.					
LIGHT SWITCHES	44" A.F.F. TO TOP OF					
DISCONNECT SWITCHES	SEE NEC 404.8(A)					
TELEPHONE/DATA RECEPTACLES	18" A.F.F.					
TELEPHONE/DATA RECEPTACLES (@ COUNTER)	44" A.F.F.					
WALL TELEPHONE RECEPTACLES	48" A.F.F. TO TOP OF					
FIRE ALARM PULL STATIONS	42" A.F.F. MIN./44" A.F					
FIRE ALARM AUDIO/VISUAL DEVICES	80" A.F.F. MIN./96" A.F					
EXIT LIGHTS (WALL MOUNTED)	12" ABOVE DOOR					
EMERGENCY LIGHTS (WALL MOUNTED)	90" A.F.F.					
TV & A/V OUTLETS	18" A.F.F.					
NOTE: ALL DIMENSIONS ARE TO CENTER OF DEVICE UNLESS OTHERWIS						

![](_page_9_Picture_39.jpeg)

![](_page_9_Picture_40.jpeg)

![](_page_10_Figure_0.jpeg)

![](_page_10_Picture_1.jpeg)

ED201 Scale: 1/4" = 1'-0"

# Electrical Demolition Plan

![](_page_10_Figure_6.jpeg)

![](_page_11_Figure_0.jpeg)

![](_page_11_Picture_1.jpeg)

Electrical Plan

![](_page_11_Figure_4.jpeg)