

ABBREVIATIONS:

# & ' (E) (N) @	INCH NUMBER, POUND AND FEET EXISTING NEW AT
A= AB ABV ACI ADD ADJ AESS	AXIAL FORCE ANCHOR BOLT ABOVE AMERICAN CONCRETE INSTITUTE ADDENDUM, ADDITION ADJUST, ADJUSTABLE ARCHITECTURALLY EXPOSED STRUCTURAL STEEL
AFF ALT ALUM APPROX ARCH ASTM	ABOVE FINISHED FLOOR ALTERNATE ALUMINUM APPROXIMATE ARCHITECTURAL AMERICAN SOCIETY FOR TESTING AND MATERIALS
AVG AWS	AVERAGE AMERICAN WELDING SOCIETY
B/ B/W BALC BD BEV BKR BLDG BLK BLKG BM BOC BOT/BTM BOW BP BRDG BRG BRK BSMT BU	BOTTOM OF BETWEEN BALCONY BOARD BEVEL BACKER BUILDING BLOCK BLOCKING BEAM BOTTOM OF CURB BOTTOM BOTTOM OF WALL BASEPLATE BRIDGE, BRIDGING BEARING BRICK BASEMENT BUILT-UP
C C= CEM CGS CIP CJ CJP CL CLG CLR CMU COL COMP CONC COND CONN CONSTR CONT COORD CORR CTR CTRL CTSK CU CUST CY	CHANNEL COMPRESSION FORCE CEMENT, CEMENTITIOUS CENTER OF GRAVITY OF STRAND CAST IN PLACE CONTROL JOINT COMPLETE JOINT PENETRATION CENTER LINE CEILING CLEAR CONCRETE MASONRY UNIT COLUMN COMPOSITE, COMPENSATION CONCRETE CONDITION CONNECTION CONSTRUCTION CONTINUOUS COORDINATE CORRIDOR CENTER CONTROL COUNTERSINK CUBIC CUSTOM CUBIC YARD
DBA DBL DEFL DEG DEMO DEPT DET DIA - Ø DIAG DIM DKG DL DWG DWGS DWL	DEFORMED BAR ANCHOR DOUBLE DEFLECTION DEGREE DEMOLITION DEPARTMENT DETAIL DIAMETER DIAGONAL DIMENSION DECKING DEAD LOAD DRAWING DRAWINGS DOWEL
EA EF EIFS EJ EL ELEC ELEV ENGR EOD EOP EOR EOS EQ EQPT ES EW EXIST EXP EXT	EACH EACH FACE EXTERIOR INSULATED FINISH SYSTEM EXPANSION JOINT ELEVATION ELECTRICAL ELEVATOR ENGINEER EDGE OF DECK EDGE OF PLATE ENGINEER OF RECORD EDGE OF SLAB EQUAL EQUIP EACH SIDE EACH WAY EXISTING EXPANSION EXTERIOR
F TO F Fc FAB FB FD FF FFE FIN FLR FNDN FOC FOF FOM FOS FR FRM FRT FT FTG FUT Fy	FACE TO FACE CONCRETE COMPRESSIVE STRENGTH FABRICATIONS/FABRICATED FLAT BAR FLOOR DRAIN FINISH FLOOR FINISH FLOOR ELEVATION FINISH FLOOR FOUNDATION FACE OF CONCRETE FACE OF FINISH FACE OF MASONRY FACE OF STUD FIRE RATED, FIRE RESISTIVE FRAMED, FRAMING FIRE RETARDANT TREATED FOOT, FEET FOOTING FUTURE YIELD STRESS
GA GALV GB GC GEN GL GLB GND GR GYP GYP BD	GAUGE GALVANIZED GRADE BEAM GENERAL CONTRACTOR GENERAL GLU-LAMINATED GLU-LAMINATED BEAM GROUND GRADE GYPSUM GYPSUM BOARD
HAS HCP HDR HEX HI HM HORIZ HSS HT HVAC	HEADED ANCHOR STUD HOLLOW CORE HOLLOW CORE PLANK HEADER HEXAGONAL HIGH HOLLOW METAL HORIZONTAL HOLLOW STRUCTURAL SECTION HEIGHT HEATING - VENTILATION - AIR CONDITIONING
IBC ICF ID IJ IN INFO INSP INSUL INT INV JT	INTERNATIONAL BUILDING CODE INSULATED CONCRETE FORMS INSIDE DIAMETER ISOLATION JOINT INCH, INCHES INFORMATION INSPECTION INSULATION INTERIOR INVERT JOINT, JOINTS
k K-FT KIP	KILOPOUND (1000 POUNDS) KIP-FOOT (1000 POUND - FEET) KILOPOUND (1000 POUNDS)
L LAM LAT LB LF LG LIN LIN FT LL LLH LLV LNTL LONG LS LSH LSL LSV LT WT LVL	ANGLE, LEFT, LENGTH LAMINATE, LAMINATED LATERAL POUND LINEAL FEET, LINEAR FOOTAGE LONG LINEAR LINEAL FEET, LINEAR FOOTAGE LIVE LOAD LONG LEG HORIZONTAL LONG LEG VERTICAL LINTEL LONGITUDINAL LONG SLOTTED LONG SIDE HORIZONTAL LAMINATED STRAND LUMBER LONG SIDE VERTICAL LIGHT WEIGHT LAMINATED VENEER LUMBER
MAX MB MC MCJ MECH MEMB MEP	MAXIMUM MACHINE BOLT MISCELLANEOUS CHANNEL MASONRY CONTROL JOINT MECHANICAL MEMBRANE MECHANICAL, ELECTRICAL, PLUMBING
MEZZ MFR MIN MISC MO MTL MUL	MEZZANINE MANUFACTURER MINIMUM MISCELLANEOUS MASONRY OPENING METAL METAL MULLION
N NIC NO NOM NTS NW	NORTH NOT IN CONTRACT NUMBER NOMINAL NOT TO SCALE NORMAL WEIGHT
OC OD OPNG OPP OSB OWSJ	ON CENTER OUTSIDE DIAMETER OPENING OPPOSITE ORIENTED STRAND BOARD OPEN WEB STEEL JOIST
P/L PAF PC PCF Pd PE PEMB PERF	PROPERTY LINE POWDER ACTUATED FASTENER PRECAST POUNDS PER CUBIC FOOT DRIFTED SNOW LOAD PROFESSIONAL ENGINEER PRE ENGINEERED METAL BUILDING PERFORATE, PERFORATED, PERFORMANCE
PERIM PERP PF PJP PL PLF PLWD PMEJ PMF PNL PREFAB PREFIN Ps PSF PSI PSL PT PTD	PERIMETER PERPENDICULAR FLAT ROOF SNOW LOAD PARTIAL JOINT PENETRATION PLATE POUNDS PER LINIER FOOT PLYWOOD PREMOLDED EXPANSION JOINT PREMOLDED FILLER PANEL PREFABRICATED PREFINISHED SLOPED ROOF SNOW LOAD POUNDS PER SQUARE FOOT POUNDS PER SQUARE INCH PARALLEL STRAND LUMBER PRESSURE TREATED PAINTED
QTY	QUANTITY
R R= RCP RD REF REINFOR REQ'D REV RO	RISER BEAM END SHEAR REACTION RADIUS REFLECTED CEILING PLAN ROOF DRAIN REFER - REFERENCE REINFORCING REQUIRED REVISION ROUGH OPENING
SCHED SCL SE SECT SF SGL SHT SHTG SIM SIMP SL SOG SPEC SQ SS STD STL STRUCT SUSP SYS	SCHEDULE STRUCTURAL COMPOSITE LUMBER STRUCTURAL ENGINEER SECTION SQUARE FEET SINGLE SHEET SHEATHING SIMILAR SIMPSON STRONG TIE SNOIW LOAD SLAB ON GRADE SPECIFICATIONS SQUARE STAINLESS STEEL STANDARD STEEL STRUCTURAL SUSPENDED SYSTEM
T T&B T&G T/ T= TAN THK THRD TOB TOC TOF TOJ TOL TOP TOPV TOS TOW TRANS TRANSL TYP	TREAD TOP AND BOTTOM TONGUE AND GROOVE TOP OF TENSION FORCE TANGENT THICK THREADED TOP OF BEAM TOP OF COLUMN, TOP OF CURB, TOP OF CONCRETE TOP OF FOOTING TOP OF JOIST TOP OF LINTEL, LANDING TOLERANCE TOP OF PIER, TOP OF PLATE TOP OF PAVEMENT TOP OF STEEL, TOP OF SLAB TOP OF WALL TRANSVERSE TRANSLUCENT TYPICAL
UNO UTIL	UNLESS NOTED OTHERWISE UTILITY
VERT VFY VIF	VERTICAL VERIFY VERIFY IN FIELD
W W/ W/O WCJ WD WF WP WR WS WT WWF	SNOW DRIFT WIDTH WITH WITHOUT WALL CONTRACTION JOINT WOOD WIDE FLANGE WORK POINT WATER RESISTANT, WATER RESISTIVE WATERSTOP WEIGHT WELDED WIRE FABRIC

PROJECT DESCRIPTION:

1. PRE-ENGINEERED METAL BUILDING.

GENERAL:

1. THE STRUCTURAL DRAWINGS ARE A PORTION OF THE CONTRACT DOCUMENTS AND ARE INTENDED TO BE USED IN CONJUNCTION WITH THE ARCHITECTURAL, CIVIL, MECHANICAL, AND ELECTRICAL DRAWINGS. THE CONTRACTOR IS RESPONSIBLE FOR COORDINATING THE REQUIREMENTS FROM THE ENTIRE SET OF CONTRACT DOCUMENTS (INCLUDING THE PROJECT SPECIFICATIONS) INTO THEIR WORK.

2. THESE GENERAL NOTES SUPPLEMENT THE PROJECT SPECIFICATIONS. REFER TO THE PROJECT SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.

3. NOTES AND DETAILS ON THE STRUCTURAL DRAWINGS SHALL TAKE PRECEDENCE OVER THE GENERAL STRUCTURAL NOTES AND TYPICAL DETAILS.

4. VERIFY ALL DIMENSIONS WITH THE ARCHITECTURAL DRAWINGS.

5. DETAILS ON THESE PLANS ARE INTENDED TO DEPICT THE GENERAL CONSTRUCTION METHODS FOR THIS STRUCTURE. CONNECTIONS, DETAILS, AND CONDITIONS NOT SPECIFICALLY SHOWN THAT ARE SIMILAR TO THOSE THAT ARE SPECIFIED SHALL BE ASSUMED ONE AND THE SAME. IF QUESTIONS REGARDING THE APPLICATION OF DETAILS ARE ENCOUNTERED, NOTIFY THE ARCHITECT/ENGINEER FOR CLARIFICATION IN A TIMELY MANNER PRIOR TO BID OPENING.

CODE REQUIREMENTS:

1. CONFORM TO 2018 INTERNATIONAL BUILDING CODE AS ADOPTED W/ AMMENDMENTS BY THE 2020 NYS BUILDING CODE.

2. ALL REFERENCE TO OTHER CODES AND STANDARDS (ACI, ASCE, ASTM, ETC.) SHALL BE FOR THE EDITIONS LISTED IN CHAPTER 35 OF THE IBC.

TEMPORARY CONDITIONS:

1. THE STRUCTURE HAS BEEN DESIGNED TO FUNCTION AS A UNIT UPON COMPLETION. THE CONTRACTOR IS RESPONSIBLE FOR FURNISHING ALL TEMPORARY BRACING AND/OR SUPPORT REQUIRED AS A RESULT OF THE CONTRACTOR'S CONSTRUCTION METHODS AND/OR SEQUENCES.

2. CONTRACTOR'S CONSTRUCTION METHODS AND/OR SEQUENCES SHALL RECOGNIZE AND CONSIDER THE EFFECTS OF THERMAL MOVEMENTS OF STRUCTURAL ELEMENTS DURING THE CONSTRUCTION PERIOD.

DESIGN CRITERIA:

1. DESIGN CRITERIA ASSUMED FOR PRELIMINARY FOUNDATION DESIGN - VERIFICATION REQUIRED UPON RECEIPT OF MANUFACTURER'S ENGINEERED SHOP DRAWINGS AND BASE REACTION CALCULATIONS. DESIGN WAS BASED ON THE STRENGTH AND DEFLECTION CRITERIA OF THE IBC. IN ADDITION TO THE DEAD LOADS, THE FOLLOWING LOADS AND ALLOWANCES WERE USED FOR DESIGN, WITH LIVE LOADS (LL) REDUCED IN ACCORDANCE WITH THE IBC:

A. RISK CATEGORY	III	
B. DEAD LOADS	UNIFORM	
1. ROOF		
• 6" INSULATED METAL ROOF PANEL	6 PSF	
• COLLATERAL	20 PSF	
• TOTAL ROOF DEAD LOAD	26 PSF	
C. LIVE LOADS	UNIFORM	CONCENTRATED
1. ROOF	20 PSF	2000 LBS
D. SNOW LOADS	UNIFORM	
1. GROUND SNOW LOAD, Pg	40 PSF	
2. FLAT ROOF SNOW LOAD, Pf	37 PSF	
3. EXPOSURE FACTOR, Ce	1.0	
4. THERMAL FACTOR, Ct	1.2	
5. IMPORTANCE FACTOR, Is	1.1	
6. SLOPE FACTOR, Cs	1.0	
7. SLOPED ROOF SNOW LOAD, Ps & Pbal	37 PSF	
8. UNBALANCED SLOPED ROOF SNOW LOAD		
A. WINDWARD - FROM EAVE TO RIDGE	0 PSF	
B. LEEWARD - FROM RIDGE TO EAVE	44 PSF	
9. SNOW DRIFT	N/A	
E. WIND LOADS		
1. WIND VELOCITY, VULT	120 MPH	
2. WIND VELOCITY, VASD	93 MPH	
3. EXPOSURE CATEGORY	C	
4. INTERNAL PRESSURE COEFFICIENT, GCi	+/-0.18	
5. COMPONENTS & CLADDING PRESSURES - STRENGTH LEVEL	UNIFORM	
• ZONE 1 - ROOF INTERIOR	+20/-63 PSF	
• ZONE 2r - ROOF RIDGE	+20/-92PSF	
• ZONE 2e - ROOF EAVE	+20/-63 PSF	
• ZONE 2n - ROOF RAKE	+20/-63 PSF	
• ZONE 3r - ROOF RIDGE CORNER	+20/-109PSF	
• ZONE 3e - ROOF EAVE CORNER	+20/-92 PSF	
• ZONE 4 - WALL SURFACE	+34/-37 PSF	
• ZONE 5 - WALL CORNER	+34/-46 PSF	
OVERHANG		
• ZONE 1 - ROOF INTERIOR	-77 PSF	
• ZONE 2r - ROOF RIDGE	-106 PSF	
• ZONE 2e - ROOF EAVE	-78 PSF	
• ZONE 2n - ROOF RAKE	-106 PSF	
• ZONE 3r - ROOF RIDGE CORNER	-141 PSF	
• ZONE 3e - ROOF EAVE CORNER	-124 PSF	
F. SEISMIC LOADS		
1. SITE CLASS	D (ASSUMED)	
2. IMPORTANCE FACTOR, Ie	1.25	
3. SEISMIC DESIGN CATEGORY	B	
4. EARTHQUAKE SPECTRAL RESPONSE, Ss	0.171	
5. EARTHQUAKE SPECTRAL RESPONSE (1 SECOND), S1	0.053	
6. DESIGN SPECTRAL RESPONSE, Sds	0.183	
7. DESIGN SPECTRAL RESPONSE (1 SECOND), Sd1	0.086	
8. SEISMIC RESISTING SYSTEM		
• STEEL SYSTEMS NOT SPECIFICALLY DETAILED FOR SEISMIC RESISTANCE	3.0	
9. RESPONSE MODIFICATION FACTOR, R	3	
10. DEFLECTION AMPLIFICATION FACTOR, Cd	0.076	
11. SEISMIC RESPONSE COEFFICIENT, Cs	25 KIPS (ASD WIND)	
12. BASE SHEAR, V	EQUIVALENT LATERAL FORCE PER ASCE 7-16 SECTION 12.8	
13. ANALYSIS PROCEDURE		

FOUNDATIONS:

1. FOUNDATION DESIGN IS BASED ON GEOTECHNICAL REPORT, DATED xx, 202x AND ADDENDA PREPARED BY x. REPORT (PROJECT) # x. SOIL BEARING PRESSURE NOT TO EXCEED x000 PSF FOR FOOTINGS WITHIN BUILDING FOOTPRINT. REFER TO GEOTECHNICAL REPORT FOR ALL PROJECT REQUIREMENTS PERTAINING TO EARTHWORK, INCLUDING BUT NOT LIMITED TO, EXCAVATION, BACKFILLING, COMPACTION, AND MATERIALS.

2. FOUNDATION SYSTEM - CONCRETE WALLS, COLUMN PIERS, SLABS-ON-GRADE AND SPREAD FOOTINGS.

3. ALL FOOTINGS SHALL BE A MINIMUM OF 48" BELOW LOWEST FINAL GRADE (OR FLOOR SLAB) FOR EXTERIOR FOOTINGS AND 12" FOR INTERIOR FOOTINGS FOR BEARING ON MEDIUM PLASTICITY SOILS, OR FROST DEPTH.

4. FOUNDATION UNITS SHALL BE CENTERED UNDER SUPPORTED STRUCTURAL MEMBERS, UNLESS NOTED OTHERWISE ON THE DRAWINGS.

5. THE CONTRACTOR SHALL REVIEW ALL GEOTECHNICAL ENGINEER RECOMMENDATIONS PRIOR TO THE COMMENCEMENT OF ANY SITE WORK.

6. STRUCTURAL FILL MATERIALS, PLACEMENT, AND COMPACTION REQUIREMENTS SHALL BE IN ACCORDANCE WITH THE GEOTECHNICAL REPORT.

7. IMPORTED ENGINEERED STRUCTURAL FILL PLACED AS FILL BENEATH PROPOSED FOUNDATIONS/SLABS-ON-GRADE, AND AS BACKFILL, SHALL BE A MATERIAL CONSISTING OF PREDOMINATELY GRANULAR SOILS, FREE FROM ORGANIC MATTER, CLAY, ICE, DEBRIS, OR OTHER DELETERIOUS MATERIAL. SUCH AS NYSDOT SUBBASE MATERIAL ITEMS 304.12 OR 304.14. THE PROPOSED MATERIAL FOR ENGINEERED FILL SHALL BE REVIEWED AND APPROVED BY THE PROJECT ENGINEER.

8. PLACEMENT OF ALL FILL SHALL BE OBSERVED AND TESTED FOR RELATIVE COMPACTION BY A QUALIFIED TECHNICIAN UNDER THE GUIDANCE OF THE GEOTECHNICAL ENGINEER. MINIMUM TESTING FREQUENCY SHALL BE ESTABLISHED BY THE GEOTECHNICAL ENGINEER.

9. THE CONTRACTOR SHALL NOTIFY THE GEOTECHNICAL ENGINEER PRIOR TO COMMENCEMENT OF FILLING OPERATIONS.

10. ALL GENERAL EXCAVATIONS AND FOOTINGS SHALL BE INSPECTED AND APPROVED PRIOR TO THE PLACEMENT OF ANY SOIL BACKFILL AND/OR CONCRETE.

11. ALL FILL, BACKFILL AND COMPACTION ACTIVITIES, PARTICULARLY DURING WET WEATHER CONDITIONS, SHALL FOLLOW RECOMMENDATIONS OF THE GEOTECHNICAL ENGINEER.

12. PLACE BACKFILL AND FILL MATERIALS IN HORIZONTAL LAYERS NOT MORE THAN 8" IN LOOSE DEPTH FOR MATERIAL COMPACTED BY HEAVY COMPACTION EQUIPMENT, AND NOT MORE THAN 6" IN LOOSE DEPTH FOR MATERIAL COMPACTED BY HAND-OPERATED TAMPERS.

13. ALL FOUNDATION ELEMENTS ARE TO BE PLACED ON UNDISTURBED APPROVED NATIVE SOIL OR ON 1'-0" MINIMUM APPROVED COMPACTED FILL. STRUCTURAL FILL SHALL EXTEND 1'-0" MINIMUM BEYOND THE FOUNDATION ELEMENT AND THEN DOWNWARD TO NATURAL SOILS AT A SLOPE OF 2 HORIZ. TO 1 VERT.

14. BACKFILL AND FILL MATERIALS SHALL BE COMPACTED TO 95% OF MAXIMUM DRY DENSITY ACCORDING TO THE MODIFIED PROCTOR TEST (ASTM D-1557).

15. BACKFILL AGAINST FOUNDATION WALLS BELOW GRADE SO THAT THE DIFFERENCE IN THE FILL LEVEL ON OPPOSITE SIDES OF THE WALL DOES NOT EXCEED 1'-0" AT ANY TIME.

16. EACH PRIME CONTRACTOR SHALL PROVIDE ALL TRENCHING WORK REQUIRED FOR ITS CONTRACT, INCLUDING TRENCH EXCAVATION, AND BACKFILL (WITH ACCEPTABLE FILL, SEE GEOTECHNICAL REPORT) TO WITHIN 1'-0" OF FINISH GRADE/FLOOR. ALL TRENCHING WORK WITHIN THE BUILDING FOOTPRINT SHALL BE COORDINATED WITH THE GENERAL CONTRACTOR. GENERAL CONTRACTOR MUST ACCEPT, IN WRITING, THE QUALITY OF THE TRENCH BACKFILL OF OTHER PRIME CONTRACTORS BEFORE BEGINNING WORK OVER THE TOP OF THE TRENCH.

17. EXCAVATION AND BACKFILL OPERATIONS SHALL BE MAINTAINED IN A DRY CONDITION. SURFACE AND INFILTRATING WATER SHALL BE REMOVED BY SITE GRADING AND PUMPING FROM SUMPS AS REQUIRED.

18. NO FOUNDATION CONCRETE SHALL BE PLACED IN WATER OR ON FROZEN SUBGRADE MATERIAL.

19. PROTECT IN-PLACE FOUNDATIONS AND SLABS FROM FROST PENETRATION UNTIL THE PROJECT IS COMPLETED.

20. THE CONTRACTOR IS RESPONSIBLE FOR EXCAVATION SAFETY. EXCAVATIONS MUST BE PERFORMED IN ACCORDANCE WITH THE CURRENT OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION (OSHA) STANDARDS.

21. PROVIDE TEMPORARY OR PERMANENT SUPPORTS WHETHER SHORING, SHEETING OR BRACING SO THAT NO HORIZONTAL MOVEMENT OR VERTICAL SETTLEMENT OCCURS TO EXISTING STRUCTURES, STREETS OR UTILITIES ADJACENT TO THE PROJECT SITE.

CONCRETE:

1. ALL CONCRETE WORK SHALL CONFORM TO "ACI 318 - BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE" AND CHAPTER 19 OF THE NEW YORK STATE BUILDING CODE.

2. CONCRETE STRENGTHS SHALL BE VERIFIED BY STANDARD 28-DAY CYLINDER TESTS PER ASTM C39, UNLESS NOTED OTHERWISE, AND SHALL BE AS INDICATED IN SPECIFICATION 03300 & BELOW

LOCATION	EXPOSURE CLASS	AIR	f _c	MAX W/C
	F S W C	CONTENT	psi	RATIO
INT. SLAB-ON-GRADE	F0 S0 W0 C0	1.0% - 3.0%	4000	0.50
EXT. SLAB-ON-GRADE	F3 S0 W0 C2	4.5% - 7.5%	5000	0.40
PIERS/FDN/RETAINING WALLS	F2 S0 W0 C1	4.5% - 7.5%	4500	0.45
FOOTINGS	F0 S1 W0 C1	1.0% - 3.0%	4000	0.50

3. MINIMUM CEMENT CONTENT PER CUBIC YARD SHALL BE AS INDICATED IN ACI 301 TABLE 4.2.2.1 & SPECIFICATION 033000.

4. THE CONTRACTOR SHALL SUBMIT CONCRETE MIX DESIGNS, ALONG WITH TEST DATA COMPLIANT WITH ACI-318 CHAPTER 5, A MINIMUM OF TWO WEEKS PRIOR TO PLACING CONCRETE.

5. UNLESS NOTED OTHERWISE, ALL CONCRETE SHALL BE NORMAL WEIGHT CONCRETE (±145 PCF) WITH ALL CEMENT CONFORMING TO ASTM C150, TYPE I / II. MAXIMUM AGGREGATE SIZE SHALL BE 1-1/2" FOR FOOTINGS AND 3/4" FOR WALLS AND SLABS, CONFORMING TO ASTM C33.

6. NO WATER MAY BE ADDED TO CONCRETE IN THE FIELD UNLESS IT CONFORMS TO THE APPROVED MIX DESIGN AND IS SPECIFICALLY APPROVED IN WRITING BY THE CONCRETE SUPPLIER.

7. CONCRETE MIX SHALL INCLUDE XYPEX C-SERIES INTEGRAL CRYSTALLINE WATERPROOFING ADDITIVE AT LOCATIONS INDICATED. COORDINATE DOSAGE RATE AND SPECIFIC PRODUCT FORMULATION WITH XYPEX'S TECHNICAL SERVICE DEPARTMENT, BASED ON THE FINAL APPROVED CONCRETE MIX DESIGN. INCORPORATE PRODUCT INTO CONCRETE BATCHING OPERATION IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS. CONCRETE SAMPLES FROM PROJECT SHALL EXHIBIT NO MEASURABLE WATER LEAKAGE WHEN PRESSURE TESTED TO 150 PSI IN ACCORDANCE WITH U.S. ARMY CORPS OF ENGINEERS CRD-C48-73.

8. A WATER REDUCING ADMIXTURE CONFORMING TO ASTM C494 USED IN STRICT CONFORMANCE WITH THE MANUFACTURER'S RECOMMENDATIONS SHALL BE INCORPORATED INTO CONCRETE MIX DESIGNS. A HIGH RANGE WATER REDUCING ADMIXTURE CONFORMING TO ASTM C494 TYPE "F" OR TYPE "G" MAY BE USED IN CONCRETE MIXES, PROVIDED THAT THE SLUMP DOES NOT EXCEED 10-INCHES.

9. CONCRETE SHALL BE PLACED IN ONE CONTINUOUS OPERATION WHEREVER PRACTICAL. CONSTRUCTION JOINTS IN BEAMS, JOISTS, AND SLABS SHALL BE LOCATED AT MID-SPAN WITH REINFORCING CONTINUING THROUGH AS IF THE JOINT DID NOT OCCUR. VERTICAL CONSTRUCTION JOINTS IN WALLS SHALL BE LOCATED MIDWAY BETWEEN COLUMNS OR PILASTERS.

10. SLEEVES, OPENING, CONDUITS, AND OTHER EMBEDDED ITEMS NOT SHOWN ON THE STRUCTURAL DRAWINGS SHALL BE APPROVED BY THE STRUCTURAL ENGINEER PRIOR TO PLACING CONCRETE. CONDUITS EMBEDDED IN SLABS SHALL NOT BE LARGER IN OUTSIDE DIMENSION THAN ONE-THIRD THE THICKNESS OF THE SLAB AND SHALL NOT BE SPACED CLOSER THAN THREE DIAMETERS ON-CENTER.

11. THE CONTRACTOR SHALL PROVIDE SHOP DRAWINGS FOR THE LAYOUT OF CONSTRUCTION AND CONTROL JOINTS FOR CONCRETE SLABS-ON-GRADE. THE JOINTS SHALL BE LOCATED AT MAXIMUM 10'-0" ON-CENTER, EACH WAY, FORMING RECTANGLES WITH A LENGTH TO WIDTH RATIO NOT EXCEEDING 1.5 IN ANY DIRECTION. CONTROL JOINTS SHALL INTERSECT AT COLUMN BLOCKOUTS, AT ENDS OF BEARING WALLS, AND AT ALL RE-ENTRANT CORNERS IN THE SLAB.

12. ALL BOLTS AND/OR ANCHOR RODS EMBEDDED INTO CONCRETE SHALL CONFORM TO ASTM SPECIFICATION F1554 GRADE 36 UNLESS NOTED OTHERWISE ON THE STRUCTURAL DRAWINGS.

13. ANCHOR RODS ARE TO BE LOCATED BY MEANS OF TEMPLATE. ANCHOR RODS SHALL NOT BE HAND SET OR WET SET.

14. ANCHOR RODS AND EMBEDDED ITEMS SHALL BE SET IN ACCORDANCE WITH THE AISC CODE OF STANDARD PRACTICE SECTION 7.5.

15. WHERE NEW CONCRETE IS PLACED AGAINST EXISTING CONCRETE, THE EXISTING CONCRETE SURFACE SHALL BE CLEANED AND ROUGHENED TO A MINIMUM 1/4" AMPLITUDE.

16. PROVIDE 3/4" CHAMFERS ON ALL EXPOSED CONCRETE EDGES, UNLESS NOTED OTHERWISE.

17. PREPARATION, CONSTRUCTION, AND PROTECTION OF CONCRETE DURING COLD WEATHER OR HOT WEATHER SHALL CONFORM TO ACI 318 26.5.4, 26.5.5, AND ACI 308R AND 305R.

DATE: 01.23.24

DRAWN BY: EK

SCALE: 1/2" = 1'-0"

REVIEWED BY: CAM

PROJECT NO.: 22-2406

FILE:

DELAWARE
ENGINEERING, P.C.
CIVIL AND ENVIRONMENTAL ENGINEERING

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REVISONS

NO.	DATE	DESCRIPTION

RHINEBECK WTP
IMPROVEMENTS
VILLAGE OF RHINEBECK
DUTCHESS COUNTY, NY

GENERAL STRUCTURAL
NOTES

SHEET:

S001

WARNING: IT IS A VIOLATION OF NEW YORK EDUCATION LAW, SECTION 2209.2, FOR ANY PERSON, UNLESS HE IS ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER OR LAND SURVEYOR, TO ALTER THIS DOCUMENT IN ANY WAY. IF ALTERED THE ALTERING PERSON SHALL COMPLY WITH THE REQUIREMENTS OF NEW YORK EDUCATION LAW, SECTION 2209.2.