



3500 INTERSTATE NORTH PKWY  
 ATLANTA, GEORGIA 30328  
 404-214-9200 PHONE  
 404-214-9208 FAX

**DESIGN CRITERIA**

DESIGN PER 2012 INTERNATIONAL BUILDING CODE WITH GA AMENDMENTS, UON.

LIVE LOADS	
ROOFS AND CANOPIES (REDUCIBLE)	20 PSF
DEAD LOADS (TO BE CONFIRMED W/ METAL BLDG MANUFACTURER)	
ROOF COLLATERAL	10 PSF
METAL BLDG MANUFACTURER SHALL CONFIRM LOAD W/ OWNER'S REQUIREMENTS AND OTHER COMPONENTS AS INDICATED IN ARCHITECTURAL DRAWINGS.	
WIND LOADS:	
BASIC WIND SPEED (ASCE 7 - ULTIMATE DESIGN)	115 MPH
MEAN ROOF HEIGHT	17 FT
WIND IMPORTANCE FACTOR	1.0
WIND EXPOSURE	ENCLOSURE
ENCLOSURE CLASSIFICATION	ENCLOSURE
INTERNAL PRESSURE COEFFICIENT	± 0.18
DIRECTIONAL FACTOR (Kd)	0.85
SHAPE FACTORS	PER CODE
SNOW LOADS:	
GROUND SNOW LOAD, Pg	5 PSF
FLAT ROOF SNOW LOAD (INCLUDING RAISED SNOW SURFACES)	3.5 PSF
EXPOSURE FACTOR, Ce	1.0
THERMAL FACTOR, Ct	1.0
IMPORTANCE FACTOR, I	1.0
SEISMIC:	
IMPORTANCE FACTOR, I	1.0
SEISMIC OCCUPANCY CATEGORY	II
MAPPED SPECTRAL RESPONSE ACCELERATION	0.316
MAPPED SPECTRAL RESPONSE ACCELERATION	0.112
SPECTRAL RESPONSE COEFFICIENT, Ss	0.208
SPECTRAL RESPONSE COEFFICIENT, Sd1	0.175
CLASS	D
SEISMIC DESIGN CATEGORY	C
BASE STRUCTURAL SYSTEM	SEE METAL BUILDING DESIGN DRAWINGS
SEISMIC EXISTING SYSTEM	SEE METAL BUILDING DESIGN DRAWINGS
RESPONSE MODIFICATION COEFFICIENT, R	SEE METAL BUILDING DESIGN DRAWINGS
ANALYTICAL PROCEDURE	EQUIV LATERAL FORCE
WIND RESISTANCE DESIGN PER CURRENT EDITION ACI 318	
CONCRETE	FC = 3000 PSI (MIN)
ALL REINFORCING STEEL PER ASTM A615 GRADE 60 AND WELDED WIRE FABRIC ASTM 185	
CONCRETE MASONRY DESIGN PER CURRENT EDITION ACI 530	FM = 1500 PSI
COMPRESSIVE STRENGTH	
SOIL BEARING (DESIGN MAXIMUM)	3000 PSF

**GENERAL NOTES**

**CONCRETE**  
 UNLESS OTHERWISE NOTED ON THE DRAWINGS, MINIMUM COVER FOR REINFORCING SHALL BE AS FOLLOWS:  
 FOOTINGS 4"  
 WALLS AND PIERS 2"  
 SLABS ON GRADE 2" FROM TOP

ALL REINFORCING SHALL BE HELD SECURELY IN POSITION WITH STANDARD ACCESSORIES IN CONFORMANCE WITH CRSI MANUAL OF STANDARD PRACTICE AND ACI 315 DURING THE PLACING OF THE CONCRETE.

UNLESS OTHERWISE NOTED, SPLICES IN REINFORCING, WHERE PERMITTED, SHALL BE AS FOLLOWS:  
 WELDED WIRE FABRIC 40x BAR DIAMETER  
 REINFORCING BARS 40x BAR DIAMETER

**MASONRY**  
 ALL WALLS SHALL BE COMPOSED OF ASTM C90 HOLLOW CONCRETE MASONRY UNITS WITH ASTM C270, TYPE "S" MORTAR. GROUT SHALL CONFORM TO THE REQUIREMENTS OF ASTM C476 AND HAVE A COMPRESSIVE STRENGTH OF 3000 PSI.

ALL EXTERIOR CMU WALLS SHALL BE REINFORCED FULL HEIGHT IN A GROUT FILLED CELL WITH 1-#5 AT:  
 1. EACH CORNER, WALL ENDS, WALL INTERSECTIONS  
 2. AT A MAXIMUM SPACING OF 48" OC, UON.

LAPPED BARS SHALL BE SECURED WITH WIRE TIES OR OTHER MEANS TO ENSURE THAT THE BAR IS NOT DISPLACED DURING GROUT PLACEMENT OUTSIDE THE TOLERANCES ESTABLISHED BY ACI 305. LAP VERTICAL BARS 72 BAR DIAMETERS AND HORIZONTAL BARS 48 BAR DIAMETERS (UNLESS OTHERWISE NOTED).

GROUT ALL CELLS CONTAINING VERTICAL REINFORCEMENT IN 5' 0" MAXIMUM LIFTS. DO NOT BEGIN PLACEMENT OF GROUT UNTIL ALIGNMENT OF CELLS ARE INSPECTED AND APPROVED.

FILL ALL CELLS BELOW FINISHED GRADE.

PROVIDE 9GA HORIZONTAL LADDER TYPE JOINT REINFORCEMENT IN WALLS AT 16" OC VERTICALLY, UON. IN ADDITION, INSTALL JOINT REINFORCING IN THE FIRST TWO MORTAR JOINTS ABOVE & BELOW OPENINGS, EXTENDING AT LEAST 24 INCHES BEYOND THE OPENING. LAP JOINT REINFORCEMENT 6" MINIMUM.

**FOUNDATIONS**

FOOTING AND SLAB SUBGRADE PREPARATION SHALL BE IN ACCORDANCE WITH RECOMMENDATIONS OF THE GEOTECHNICAL REPORT FOR THE PROJECT AND SHALL BE IN COMPLIANCE WITH APPLICABLE REQUIREMENTS OF GOVERNING AUTHORITIES HAVING JURISDICTION.

A GEOTECHNICAL TESTING AND INSPECTION FIRM SHALL BE EMPLOYED TO PERFORM A SOIL SURVEY FOR SATISFACTORY SOIL MATERIALS, SAMPLING AND TESTING FOR QUALITY CONTROL AS PER THE RECOMMENDATIONS OF THE GEOTECHNICAL REPORT FOR THIS PROJECT. ALL EARTHWORK OPERATIONS SHALL BE PERFORMED TO THE SATISFACTION OF THE GEOTECHNICAL TESTING FIRM.

**PRE-ENGINEERED BUILDING NOTES**

THESE DRAWINGS SPECIFY FOUNDATION REQUIREMENTS TO ACCOMMODATE A PRE-ENGINEERED METAL BUILDING. FOUNDATIONS HAVE BEEN DESIGNED FOR ESTIMATED COLUMN REACTIONS. PROVIDE SHOP DRAWINGS WITH FINAL REACTIONS FOR EOR REVIEW AND COORDINATION PRIOR TO POURING FOUNDATIONS.

TRILogy ENGINEERING, LLC IS NOT RESPONSIBLE FOR THE DESIGN OF ANY ASPECTS OF THIS BUILDING OTHER THAN ITS SLAB ON GRADE, CMU WALLS AND FOOTINGS AS SHOWN. OTHER STRUCTURAL ELEMENTS INCLUDING FLOOR & ROOF FRAMING, WIND FRAMES, METAL BUILDING COLUMNS, ANCHOR BOLTS, AND METAL BUILDING COLUMN BASE PLATES ARE TO BE DESIGNED BY THE METAL BUILDING ENGINEER AND SIGNED AND SEALED BY A REGISTERED ENGINEER IN THE STATE OF THE PROJECT.

ALL PRE-ENGINEERED METAL BUILDING DESIGN, FABRICATION AND ERECTION SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE METAL BUILDING MANUFACTURERS ASSOCIATION "LOW RISE BUILDING SYSTEM MANUAL" AND, FOR ITEMS NOT COVERED, AISI "SPECIFICATIONS FOR STRUCTURAL STEEL BUILDINGS".

**SUPPLEMENTARY NOTES**

CONTRACTOR SHALL VERIFY ALL EXISTING DIMENSIONS AND CONDITIONS OF EXISTING STRUCTURE AND SITE THAT ARE AFFECTED BY NEW WORK BEFORE PROCEEDING WITH FABRICATION AND CONSTRUCTION.

PROVIDE ALL TEMPORARY BRACING, SHORING, GUYING OR OTHER MEANS TO AVOID EXCESSIVE STRESSES AND TO HOLD STRUCTURAL ELEMENTS IN PLACE DURING CONSTRUCTION. THE STRUCTURE SHOULD NOT BE CONSIDERED STABLE UNTIL ALL STRUCTURAL ELEMENTS HAVE BEEN CONSTRUCTED.

TRILogy ENGINEERING, LLC OR ANY OF ITS EMPLOYEES SHALL NOT HAVE CONTROL OR BE RESPONSIBLE FOR CONSTRUCTION MEANS, METHODS, TECHNIQUES, PROCEDURES OR SEQUENCES FOR THE ACTS OR OMISSIONS OF THE CONTRACTOR, OR ANY OTHER PERSONS PERFORMING THE WORK, OR FOR THE FAILURE OF ANY OF THEM TO CARRY OUT THE WORK IN ACCORDANCE WITH THE CONTRACT DOCUMENTS.

VERIFY ALL DIMENSIONS WITH ARCHITECTURAL DRAWINGS. SEE ARCHITECTURAL, MECHANICAL, ELECTRICAL AND PLUMBING DRAWINGS FOR EMBEDS, OPENINGS, SLEEVES, ETC. NOT SHOWN ON THE STRUCTURAL DRAWINGS.

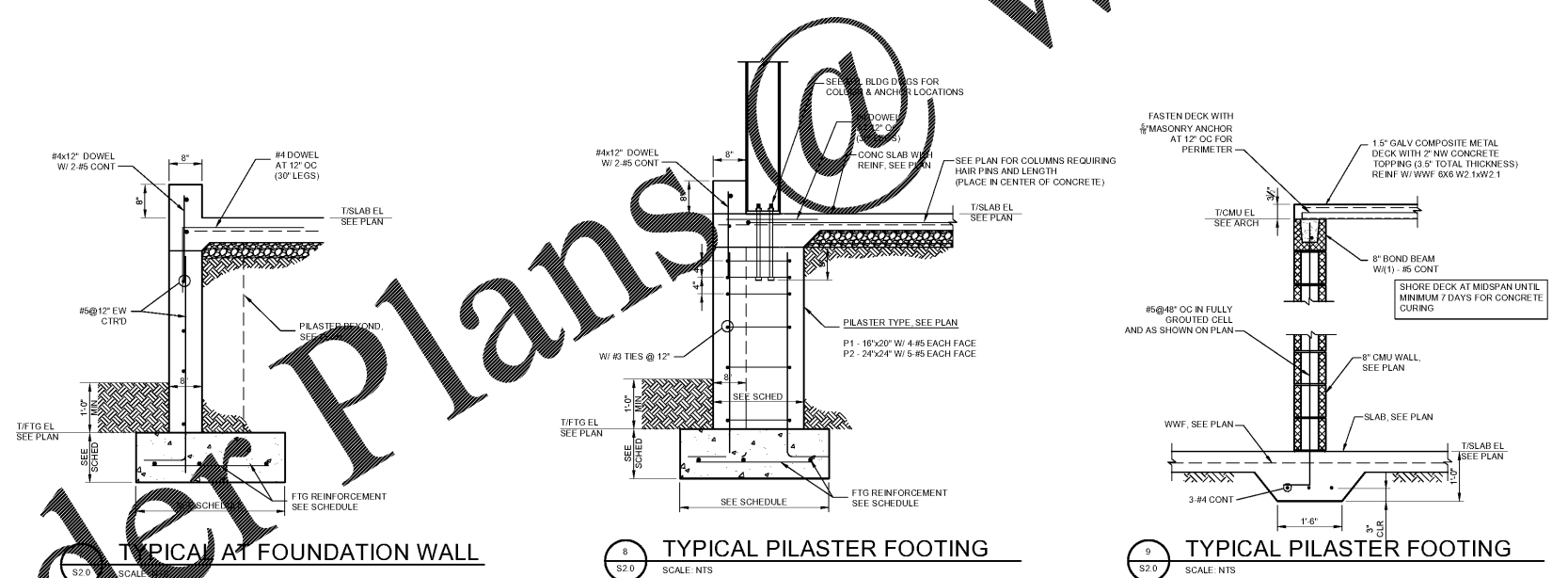
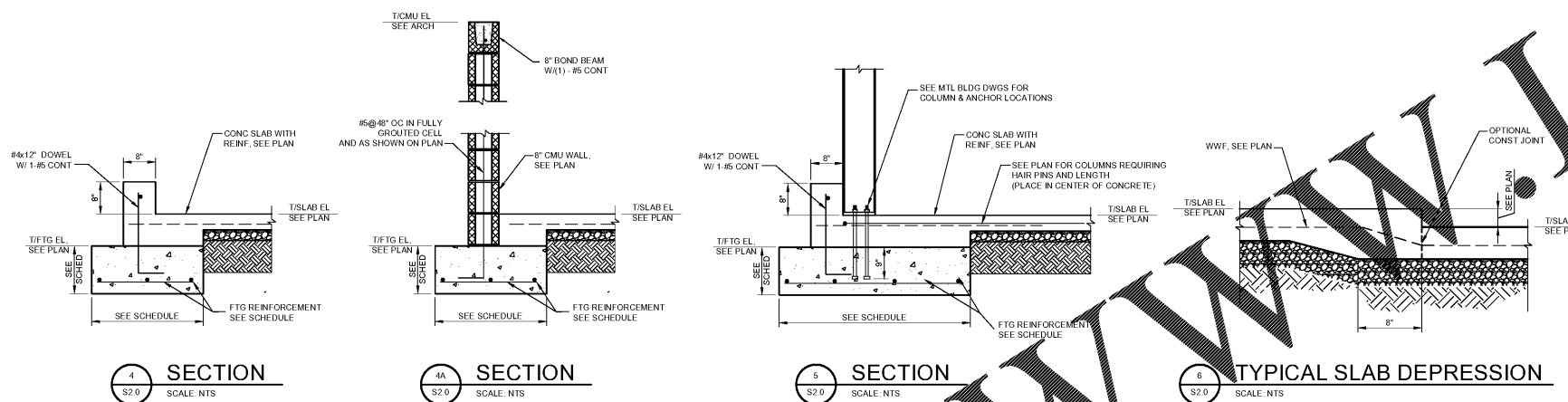
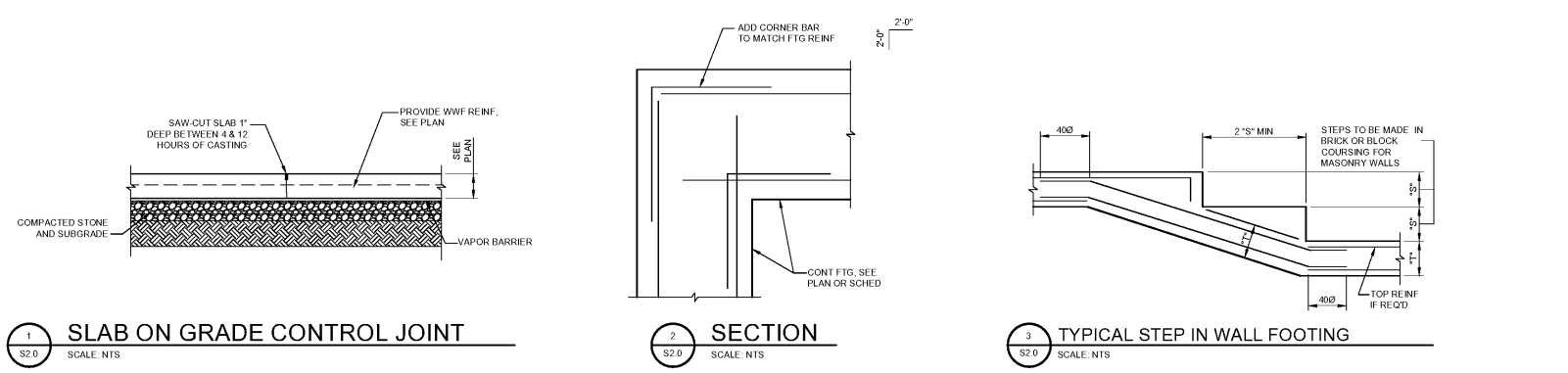
EPOXY GROUT SHALL BE HY150 CARTRIDGE SYSTEM BY HILTI OR APPROVED EQUAL, UON. EMBEDMENT SHALL BE 1/2" BAR DIAMETER MINIMUM, UON. HOLES SHALL BE 1/8" LARGER THAN REBAR SIZE AND 1/8" LARGER THAN THREADED ROD SIZE. HOLES SHALL BE BRUSHED OUT WITH BRISTLE BRUSH AND THEN BLOWN OUT WITH AIR USING A COMPRESSOR WITH A FUNCTIONAL OIL TRAP. INSTALLATION SHALL BE IN ACCORDANCE WITH MANUFACTURERS PRINTED INSTRUCTIONS.

EMBEDMENT FOR EXPANSION BOLTS SHALL BE 3 1/4" MINIMUM FOR 3/4" BOLTS IN CONCRETE, 5 1/4" IN GROUTED MASONRY. HILTI KWIK BOLT OR APPROVED EQUAL.

ANY ENGINEERING DESIGN PROVIDED BY OTHERS AND SUBMITTED FOR REVIEW SHALL BEAR THE SEAL OF AN ENGINEER REGISTERED IN THE STATE OF THE PROJECT.

CHANGES TO THE CONTRACT DOCUMENTS SHALL BE CLOUDED ON SHOP DRAWINGS OR REQUESTED IN WRITING.

THE CONTRACTOR IS LIABLE FOR ANY DEVIATIONS UNLESS REVIEWED AND ACKNOWLEDGED BY THE ENGINEER. SHOP DRAWING SUBMITTALS SHALL ONLY BE CHECKED FOR CONFORMANCE WITH THE DESIGN CONCEPT AND THE INFORMATION SHOWN ON THE CONSTRUCTION DOCUMENTS.



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RELOCATED TRAINING CENTER  
 FOR  
 THE FLOYD COUNTY JAIL  
 2526 NEW CALHOUN HIGHWAY N.E.  
 ROME, GEORGIA 30161

DATE	REVISION

PROJECT NO:  
420-03-01  
 DATE:  
JULY 16, 2018  
 DRAWING TITLE:  
GENERAL NOTES  
SECTIONS AND DETAILS

S2.0

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