BASIC LATERAL FORCE RESISTING SYSTEM:

INTERMEDIATE REINFORCED MASONRY SHEAR WALLS

ANALYSIS PROCEDURE: EQUIVALENT LATERAL FORCE **DESIGN LIVE LOADS** 

CORRIDORS MECHANICAL **ROOF SNOW LOAD** 

 $C_t = 1.0$  $P_{\rm f} = 10.4 \, \rm PSF$  $P_{\rm m} = 16.5 \, {\rm PSF}$ 

20 PSF

100 PSF

150 PSF

 $P_{\alpha} = 15 PSF$ 

 $C_{\rm e} = 0.9$ 

I<sub>s</sub> = 1.1

15 PSF

**RAIN ON SNOW** 

V = 125 MPH (3 SECOND GUST) WIND LOAD

EXPOSURE C DESIGN (DESIGN/ULTIMATE) WIND BASE SHEAR:  $V_x = 280k$   $V_y = 193k$ INTERNAL PRESSURE COEFFICIENT = ±0.18 COMPONENTS & CLADDING PER ASCE 7

FIGURES 30.5-1

WIN	WIND LOADS ON COMPONENTS & CLADDING FOR GIVEN TRIBUTARY AREAS (psf)						
	ZONE	10 SQ FT	20 SQ FT	50 SQ FT	100 SQ FT	500 SQ FT	
	1	+16.0/-38.2	+16.0/-37.2	+16.0/-35.9	+16.0/-34.9	+16.0/-34.9	
ROOF	2	+16.0/-64.1	+16.0/-57.2	+16.0/-48.2	+16.0/-41.4	+16.0/-41.4	
	3	+16.0/-96.4	+16.0/-79.9	+16.0/-58.0	+16.0/-41.4	+16.0/-41.4	
ROOF O'HANG	2	-55.1	-54.2	-52.9	-51.9	-35.7	
RO O'H/	3	-90.8	-71.3	-45.4	-25.9	-25.9	
LL	4	+34.9/-37.9	+33.4/-36.3	+31.3/-34.3	+29.8/-32.7	+26.2/-29.1	
WALL	5	+34.9/-46.6	+33.4/-43.5	+31.3/-39.4	+29.8/-36.3	+26.2/-29.1	

- DETERMINE WIND LOADS ON COMPONENTS IN ACCORDANCE WITH THE NCSBC AND ASCE-7 OR WITH THIS TABLE. REFERENCE ASCE 7-10 FIGURE
- 30.5-1. TRIBUTARY AREA = GREATER OF LxW OR LxL/3. DESIGN FOR ALLOWABLE CAPACITY USING LOADS FROM ASCE-7 OR FROM
- DEFLECTIONS MAY BE CALCULATED BASED ON 70% OF THESE LOADS.
- POSITIVE PRESSURES ARE DIRECTED TOWARD THE INTERIOR. NEGATIVE LOADS ARE DIRECTED AWAY FROM THE INTERIOR. NEGATIVE ROOF LOADS ARE UPLIFT LOADS.
- NET UPLIFT IS EQUAL TO THE GROSS UPLIFT LOAD CALCULATED FROM ASCE-7 OR FROM THIS TABLE MINUS 60% OF THE ROOFING ALLOWANCE SUMPERIMPOSED DEAD LOAD SHOWN ON S100

SEISMIC DESIGN VALUES DETERMINED UTILIZING 2008 USGS HAZARD DATA SPECTRAL RESPONSE ACCELERATIONS  $S_s = 0.184g$   $S_1 = 0.086g$ SITE CLASS D SPECTRAL RESPONSE COEFFICIENTS  $S_{ds} = 0.197g$   $S_{d1} = 0.138g$ 

SEISMIC DESIGN CATEGORY C DESIGN ULTIMATE SEISMIC BASE SHEAR:  $V_x = 87k$   $V_y = 87k$ IMPORTANCE FACTOR DESIGN SEISMIC RESPONSE COEFFICIENT

 $I_{\rm e} = 1.25$  $C_s = 0.099$ RESPONSE MODIFICATION FACTOR R = 3.5

SPECIAL INSPECTION REQUIREMENTS THE FOLLOWING SYSTEMS ARE SUBJECT TO THE SPECIAL INSPECTION REQUIREMENTS OF THE NCSBC, CHAPTER 17.

- CAST-IN-PLACE CONCRETE MASONRY
- STRUCTURAL STEEL
- STEEL JOIST STEEL DECK
- SOILS SPECIAL INSPECTIONS FOR WIND RESISTANCE

### **GENERAL NOTES**

DESIGN, FURNISH, AND INSTALL TEMPORARY SHORING, BRACING, AND OTHER TEMPORARY SUPPORTS REQUIRED FOR CONSTRUCTING THE STRUCTURE AND TO MAINTAIN THE STABILITY THROUGHOUT ALL PHASES OF CONSTRUCTION UNTIL THE STRUCTURE IS COMPLETED. ALL TEMPORARY SUPPORTS ARE TO BE REMOVED UNLESS NOTED OTHERWISE.

USE STRUCTURAL DRAWINGS IN CONJUNCTION WITH THE ARCHITECTURAL DRAWINGS AND THE DRAWINGS OF OTHER TRADES. COORDINATE WITH OTHER TRADES THE ACTUAL LOCATIONS AND SIZES OF

OPENINGS AND PENETRATIONS REQUIRED BY THEIR WORK. COORDINATE WITH OTHER TRADES THE ACTUAL LOCATIONS AND ELEVATIONS OF BURIED SERVICES PASSING NEAR FOUNDATIONS. UNDERGROUND SERVICES WHICH PASS BENEATH WALL FOOTINGS SHALL HAVE AT LEAST 12" OF CLEARANCE BELOW THE BOTTOM OF THE FOOTING. WHERE THIS IS NOT ACHIEVED, EITHER STEP THE FOOTING DOWN BENEATH THE SERVICE OR INSTALL A STEEL PIPE SLEEVE FOR THE SERVICE TO PASS THROUGH. SLEEVES ARE FURNISHED AND INSTALLED BY THE TRADE INSTALLING THE SERVICE. NO SERVICE IS TO BE INSTALLED BENEATH

COLUMN FOOTINGS UNLESS APPROVED BY THE ARCHITECT. COORDINATE WITH OTHER TRADES THE ACTUAL LOCATIONS AND TYPES OF ATTACHMENTS AND ANCHORS THAT ARE REQUIRED BY THE TRADES TO FASTEN THEIR WORK TO THE STRUCTURE.

MODIFICATIONS TO STRUCTURAL COMPONENTS AND INSTALLATION OF PENETRATIONS THROUGH STRUCTURAL MEMBERS ARE NOT PERMITTED WITHOUT PRIOR APPROVAL OF THE ARCHITECT.

VERIFY ACTUAL DIMENSIONS, ELEVATIONS, AND CONDITIONS OF EXISTING CONSTRUCTION PRIOR TO PROCEEDING WITH WORK OR ORDERING MATERIALS WHICH COULD BE AFFECTED BY EXISTING CONDITIONS.

### **FOUNDATIONS**

THE FOUNDATION DESIGN IS BASED ON GEOTECHNICAL ENGINEERING REPORT BY TERRACON CONSULTANTS, INC. DATED MAY 7, 2024. ALL FOOTINGS SHALL BE PLACED ON UNDISTURBED SOIL OR COMPACTED

STRUCTURAL FILL. NET ALLOWABLE BEARING PRESSURE IS 3000 PSF. SITE PREPARATION SHOULD BEGIN WITH THE DEMOLITION OF THE EXISTING PAVEMENT AND STRUCTURES AND DEBRIS REMOVAL WHERE NEW CONSTRUCTION WILL OCCUR. AS PART OF THE DEMOLITION, BURIED CONCRETE FOUNDATIONS ASSOCIATED WITH EXISTING MODULAR STRUCTURES SHOULD ALSO BE REMOVED. EXISTING UTILITIES THAT ARE TO BE ABANDONED SHOULD BE PROPERLY BACKFILLED WITH COMPACTED STRUCTURAL FILL UTILITIES THAT ARE TO REMAIN IN SERVICE SHOULD BE ACCURATELY LOCATED HORIZONTALLY AND VERTICALLY TO MINIMIZE CONFLICT WITH NEW FOUNDATION

PRIOR TO PLACING FILL, EXISTING VEGETATION AND ROOT MAT SHOULD BE REMOVED. COMPLETE STRIPPING OF THE TOPSOIL SHOULD BE PERFORMED IN THE PROPOSED BUILDING PAD AREAS.

THE SUBGRADE SHOULD BE PROOFROLLED WITH AN ADEQUATELY LOADED VEHICLE SUCH AS A FULLY-LOADED TANDEM-AXLE DUMP TRUCK. THE PROOFROLLING SHOULD BE PERFORMED UNDER THE DIRECTION OF THE GEOTECHNICAL ENGINEER. AREAS EXCESSIVELY DEFLECTING UNDER THE PROOFROLL SHOULD BE DELINEATED AND SUBSEQUENTLY ADDRESSED BY THE GEOTECHNICAL ENGINEER. EXCESSIVELY WET OR DRY MATERIAL SHOULD EITHER BE REMOVED, OR MOISTURE CONDITIONED AND RECOMPACTED. ANY EXISTING FILL MATERIAL ENCOUNTERED BENEATH THE BUILDING/FOOTING FOOTPRINT SHALL BE REMOVED AND REPLACED.

MATERIAL PROPERTY REQUIREMENTS FOR ON-SITE SOIL FOR USE AS GENERAL FILL AND STRUCTURAL FILL ARE NOTED IN THE TABLE BELOW:

PROPERTY	GENERAL FILL	STRUCTURAL FILL
COMPOSITION	FREE OF DELETERIOUS MATERIAL	FREE OF DELETERIOUS MATERIAL
MAXIMUM PARTICLE SIZE	6 INCHES (OR 2/3 OF THE LIFT THICKNESS)	3 INCHES
FINES CONTENT	NOT LIMITED	NOT LIMITED
PLASTICITY	NOT LIMITED	MAXIMUM LIQUID LIMIT OF 50 MAXIMUM PLASTICITY INDEX OF 30

STRUCTURAL AND GENERAL FILL SHOULD MEET THE FOLLOWING

COMPACT	ION REQUIREMENTS.	
ITEM	STRUCTURAL FILL	GENERAL FILL
MAXIMUM LIFT THICKNESS	10 INCHES IN LOOSE THICKNESS WHEN HEAVY, SELF-PROPELLED COMPACTION EQUIPMENT IS USED. 6 INCHES IN LOOSE THICKNESS WHEN HANDGUIDED EQUIPMENT ( I.E. JUMPING JACK OR PLATE COMPACTOR) IS USED.	SAME AS STRUCTURAL FILL
MINIMUM COMPACTION REQUIREMENTS	95% OF THE MATERIAL'S STANDARD PROCTOR MAXIMUM DRY DENSITY (ASTM D 698). 98% OF THE MATERIAL'S STANDARD PROCTOR MAXIMUM DRY DENSITY (ASTM D 698) IN UPPER 1 FOOT OF STRUCTURAL FILL.	92% OF THE MATERIAL'S STANDARD PROTOR MAXIMUM DRY DENSITY ( ASTM D698)
WATER CONTENT RANGE	LOW PLASTICITY FINE-GRAINED SOIL (PI<30): -3% TO +3% OF OPTIMUM COARSE-GRAINED SOIL: -3% TO +3% OF OPTIMUM	AS REQUIRED TO ACHIEVE MIN. COMPACTION REQUIREMENTS AND STABILITY

IMPORTED FILL MATERIALS: IMPORTED FILL MATERIALS SHOULD MEET THE FOLLOWING MATERIAL PROPERTY REQUIREMENTS. REGARDLESS OF ITS SOURCE. STRUCTURAL FILL SHOULD CONSIST OF APPROVED MATERIALS THAT ARE FREE OF ORGANIC MATTER AND DEBRIS. FROZEN MATERIAL SHOULD NOT BE USED, AND FILL SHOULD NOT BE PLACED ON A FROZEN SUBGRADE.

SOIL TYPE	USCS CLASSIFICATION	ACCEPTABLE PARAMETER (FOR STRUCTURAL FILL)
LOW PLASTICITY, FINE-GRAINED SOIL	CL, CL-ML ML, SM, SC	LIQUID LIMIT LESS THAN 50 PLASTICITY INDEX LESS THAN 30
COARSE-GRAINED SOIL	GW, GP, GM, GC, SW, SP, SM, SC	LESS THAN 50% PASSING NO. 200 SIEVE LIQUID LIMIT LESS THAN 50 PLASTICITY INDEX LESS THAN 30
SELECT GRANURAL FILL	SP, SP-SM, SW, OR SW-SM	LESS THAN 12% PASSING NO. 200 SIEVE PLASTICITY INDEX LESS THAN 10

- 4. NO FOUNDATIONS SHALL BE PLACED IN WATER OR ON FROZEN GROUND.
- ALL FOOTING EXCAVATIONS ARE TO BE FINISHED BY HAND. ALL FINISHED FOUNDATION EXCAVATIONS SHALL BE INSPECTED AND APPROVED BY THE ARCHITECT OR HIS DESIGNATE BEFORE ANY CONCRETE IS PLACED.
- UNLESS OTHERWISE NOTED, ALL FOOTINGS AND PILASTERS SHALL
- BE CENTERED UNDER SUPPORTED MEMBERS. DOWELS FROM FOUNDATIONS INTO PIERS, COLUMNS, BUTTRESSES, OR WALLS ABOVE SHALL BE THE SAME SIZE AND NUMBER AS VERTICAL REINFORCEMENT IN PIERS, COLUMNS, BUTTRESSES, OR WALLS ABOVE, EXCEPT AS OTHERWISE SHOWN ON THE DRAWINGS.
- CAREFULLY FOLLOW THE REQUIREMENTS OF THE SPECIFICATIONS FOR BACKFILL UNDER OR ADJACENT TO ANY PORTION OF THE BUILDING.
- WHERE FOUNDATION ELEMENTS ARE TO HAVE FILL ON BOTH SIDES, EACH SIDE SHALL BE FILLED SIMULTANEOUSLY, MAINTAINING A COMMON ELEVATION.
- COORDINATE UNDERFLOOR DRAIN REQUIREMENTS WITH ARCHITECTURAL AND MECHANICAL DRAWINGS AND THE REQUIREMENTS OF THE GEOTECHNICAL ENGINEER.
- CONTRACTOR SHALL PROVIDE CONTINUOUS CONTROL OF SURFACE AND UNDERGROUND WATER AS REQUIRED DURING CONSTRUCTION SUCH THAT THE WORK IS DONE IN THE DRY.

### CAST-IN-PLACE

- MATERIALS PORTLAND CEMENT: ASTM C150, TYPE I.
- FLY ASH: ASTM A618, CLASS C OR F. NORMAL-WEIGHT AGGREGATE: ASTM ASTM C33, CLASS 3M.
- REINFORCING STEEL: ASTM A615 GRADE 60.
- REINFORCING STEEL, WELDABLE: ASTM A706. WELDED WIRE FABRIC: ASTM A185, FLAT SHEETS UNDER-SLAB DRAINAGEFILL: 4" WASHED CRUSHED STONE,
- MAXIMUM AGGREGATE SIZE OF 3/4". VAPOR BARRIER: ASTM E1745, CLASS B; FIVE-PLY, NYLON OR
- POLYESTER CHORD, 15 MILS THICKNESS. WATERSTOP: SELF EXPANDING.
- CONCRETE MIXES
- FOOTINGS: 3000 PSI NW SLABS-ON-GRADE: 3000 PSI NW.
- SLABS-ON-GRADE EXPOSED TO WEATHER: 4500 PSI NW, AIR-
- ENTRAINED. PERFORM CONCRETE WORK IN ACCORDANCE WITH ACI 318 AND ACI 301.

- PROVIDE CONCRETE COVER AS FOLLOWS: CONCRETE CAST AGAINST AND PERMANENTLY EXPOSED TO
- EARTH: 3". CONCRETE EXPOSED TO EARTH OR WEATHER:
- #5 OR SMALLER: 1 1/2". #6 OR LARGER: 2".
- CONCRETE NOT EXPOSED TO EARTH OR WEATHER: a. SLABS, WALLS, JOIST: 3/4" BEAMS, COLUMNS: 1 1/2" TO PRIMARY REINFORCEMENT, TIES, STIRRUPS, OR SPIRALS.
- PROVIDE CONTINUOUS REINFORCEMENT WHEREVER POSSIBLE. SPLICE ONLY AS SHOWN OR APPROVED. MINIMUM LAP LENGTHS, EXPRESSED IN NUMBER OF BAR DIAMETERS, SHALL BE AS FOLLOWS:

BAR SIZE	NORMAL WT. CONCRETE STRENGTH, fc (psi)					
DAIX SIZE	3000 4000		5000			
#6 OR SMALLER	57 DIA.	49 DIA.	44 DIA.			
#7 OR LARGER	71 DIA.	62 DIA.	55 DIA.			

MULTIPLY THE ABOVE LENGTHS BY 1.3 FOR TOP BARS AND BY 1.3 FOR LIGHTWEIGHT CONCRETE. WHERE BARS OF UNEQUAL DIAMETER ARE LAPPED, USE THE LAP LENGTH OF THE SMALLER BAR. THE ABOVE LENGTHS ARE CLASS "B" TENSION LAP SPLICES BASED ON GRADE 60 BARS WITH A COVER OF AT LEAST 1 BAR DIA. AND SPACING AT LEAST 3 BAR DIA. LAP LENGTHS SHALL BE INCREASED IN ACCORDANCE WITH ACI 318 IF COVER IS LESS THAN 1 BAR DIA. OR SPACING IS LESS THAN 3 BAR DIA.

- ACCURATELY INSTALL AND PROPERLY SECURE ANCHORS, BEARING PLATES, SLEEVES, AND OTHER EMBEDDED ITEMS. ACCURATELY LOCATE AND BLOCK OUT OPENINGS AND PENETRATIONS.
- COORDINATE WITH OTHER TRADES FOR ANCHORS, EMBEDDED ITEMS, SLEEVES, AND PENETRATIONS REQUIRED AND/OR FURNISHED BY THE OTHER TRADES. PROVIDE CONTRACTION JOINTS IN SLABS-ON-GRADE WHERE INDICATED ON THE PLANS. PROVIDE A JOINT DEPTH EQUAL TO AT LEAST 25% OF THE SLAB THICKNESS.
- INSTALL AND SEAL VAPOR BARRIER IN ACCORDANCE WITH ASTM E1643 AND MANUFACTURER'S INSTRUCTIONS. LAP JOINTS 6" AND SEAL WITH MANUFACTURER'S RECOMMENDED TAPE.
- FLOOR FINISHES: A. FLOAT FINISH: SURFACES TO RECEIVE A TROWEL FINISH, TO BE COVERED WITH FLUID-APPLIED OR SHEET WATERPROOFING, OR TO BE
- COVERED WITH BUILT-UP OR MEMBRANE ROOFING. TROWEL FINISH: SURFACES EXPOSED TO VIEW OR COVERED WITH RESILIENT FLOORING, CARPET, WOOD FLOORING, PAINT, SEALER, OR OTHER THIN FILM FINISH. TROWEL AND FINE-BROOM FINISH: SURFACES TO BE COVERED WITH
- QUARRY OR CERAMIC TILE INSTALLED BY THE THIN-SET OR THICK-SET METHOD. BROOM FINISH: EXTERIOR CONCRETE PLATFORMS, STEPS, AND RAMPS
- 12. FLOOR FINISH TOLERANCE: SLABS TO RECEIVE TROWEL OR TROWEL AND FINE-BROOM FINISH: a. SPECIFIED OVERALL VALUES: FF=25 / FL=20. MINIMUM LOCAL VALUES: FF=17 / FL=15...

### NO CONDUIT OR PIPE MAY BE RUN WITHIN STRUCTURAL CONCRETE MEMBERS EXCEPT WHERE INDICATED.

### STRUCTURAL MASONRY

FINISH SLABS FLAT AND LEVEL.

SCOPE: THESE NOTES APPLY TO LOAD BEARING MASONRY OR MASONRY THAT IS PART OF THE LATERAL LOAD RESISTING SYSTEM. SEE ARCHITECTURAL FOR OTHER MASONRY.

- ALL MASONRY WORK SHALL CONFORM TO THE "BUILDING CODE REQUIREMENTS FOR MASONRY STRUCTURES" (ACI530-13) AND "SPECIFICATIONS FOR MASONRY STRUCTURES" (ACI530.1-13)
- MATERIALS CONCRETE MASONRY UNITS: ASTM C90, 2000 PSI MIN. UNIT
- STRENGTH. MORTAR: ASTM C270, PROPORTION SPECIFICATION, TYPE S.
- GROUT: ASTM C476; SLUMP = 8" TO 11". COMPRESSIVE STRENGTH f'c = 3000 PSI
- MASONRY f'm = 2000 PSI. REINFORCING STEEL: ASTM A615, GRADE 60. Fs = 32,000 PSI LAP REINFORCING AS FOLLOWS, UNLESS NOTED OTHERWISE.
  - #3 1'-6" #7 5'-6" #4 2'-0" #8 8'-6"
  - *#*5 2'-6" *#*9 10'-9"
- #6 4'-0" #10 14'-0" INSTALL REINFORCING IN THE CENTER OF CELLS UNLESS INDICATED OTHERWISE.
- ADEQUATELY SECURE REINFORCING TO PREVENT MOVEMENT PRIOR TO GROUT FILL.
- GROUT ALL CELLS OF MASONRY UNITS INSTALLED BELOW FINAL GRADE. ABOVE GRADE, GROUT ONLY REINFORCED CELLS UNLESS INDICATED OTHERWISE.

### STRUCTURAL STEEL MATERIALS

- STRUCTURAL STEEL WIDE FLANGE SHAPES: ASTM A992 OTHER STRUCTURAL STEEL ROLLED SHAPES: ASTM A36
- RECTANGULAR OR ROUND HSS: ASTM A500, GR B STEEL PLATE: ASTM A36 HIGH STRENGTH BOLTS: ASTM A325
- ANCHOR RODS: ASTM F1554, GRADE 36 WELD ELECTRODE: IN ACCORDANCE WITH AWS D1.1 FABRICATE AND ERECT STEEL IN ACCORDANCE WITH THE AISC
- SPECIFICATION. PERFORM SHOP AND FIELD WELDING IN ACCORDANCE WITH AWS D1.1 WITH CURRENTLY CERTIFIED WELDERS. UNLESS NOTED OTHERWISE, ALL BOLTED CONNECTIONS ARE MADE WITH 3/4" HIGH STRENGTH BOLTS INSTALLED SNUG TIGHT.
- DESIGN OF BEAM CONNECTIONS ARE DELEGATED TO THE STEEL FABRICATOR. SHOP STANDARD SIMPLE SHEAR CONNECTIONS WILL BE PERMITTED. SERVICE LEVEL (UNFACTORED) BEAM REACTIONS ARE SHOWN ON THE FRAMING PLAN. WHERE NOT SHOWN DESIGN FOR MINIMUM END REACTION OF 10 KIPS FOR A SHEAR CONNECTION AND 10 KIP-FT FOR A MOMENT CONNECTION. THE EOR WILL REVIEW AND APPROVE THE PROPOSED CONNECTION.
- STEEL PREPARATION AND FINISH: INTERIOR FRAMING: SSPC SP3 POWER TOOL CLEANING; PAINT 23 LATEX PRIMER FOR STEEL SURFACES.
- BLAST CLEANING; HOT DIPPED GALVANIZED. FOR BEAMS NOT MEETING THE MINIMUM SIZE REQUIREMENT OF THE UL ASSEMBLY, THE CONTRACTOR SHALL PROVIDE FOR APPROVAL W/D CALCULATIONS AS REQUIRED IN SECTION 721.5.2.2 OF THE NC STATE BUILDING CODE.

### STEEL DECK

3" DEEP ROOF DECK ATTACHMENT TO STRUCTURAL STEEL FASTEN ROOF DECK PANELS TO STEEL SUPPORTING MEMBERS WITH 5/8" NOMINAL DIAMETER PUDDLE WELDS OR WELDS WITH AN EQUAL PERIMETER, OR SEAM WELDS NOT LESS THAN 1 1/2" LONG. WELD EDGES AND INTERIOR RIBS OF DECK UNITS TO EACH

BRICK RELIEF ANGLES AND LINTELS: SSPC SP6 COMMERCIAL

- SUPPORTING MEMBER WITH A MINIMUM OF THREE WELDS PER DECK WELD SPACING: SEE ROOF DECK ATTACHMENT PLAN ON S-040.
- FASTEN SIDE LAPS WITH #10 SELF-DRILLING SCREWS. SEE ROOF DECK ATTACHMENT PLAN ON S-040. DECK SPANS 36" OR LESS DO NOT REQUIRE SIDE LAP FASTENERS.
- END BEARING: 3" MINIMUM. END JOISTS: LAPPED DO NOT HANG ANYTHING FROM THE ROOF DECK.
- PER AWS D1.3, A WELDING PROCEDURE SPECIFICATION (WPS) AND A PROCEDURE QUALIFICATION RECORD (PQR) FOR WELDING SHEET METAL MUST BE SUBMITTED TO THE EOR FOR REVIEW AND APPROVAL PRIOR TO ANY DECK WELDING. 2. 1 1/2" DEEP ROOF DECK ATTACHMENT TO STRUCTURAL STEEL
- A. FASTEN ROOF DECK PANELS TO STEEL SUPPORTING MEMBERS WITH 5/8" NOMINAL DIAMETER PUDDLE WELDS OR WELDS WITH AN EQUAL PERIMETER, OR SEAM WELDS NOT LESS THAN 1 1/2" LONG. WELD EDGES AND INTERIOR RIBS OF DECK UNITS TO EACH
- SUPPORTING MEMBER WITH A MINIMUM OF THREE WELDS PER DECK WELD SPACING: SEE ROOF DECK ATTACHMENT PLAN ON S-040. FASTEN SIDE LAPS WITH #10 SELF-DRILLING SCREWS. SEE ROOF DECK ATTACHMENT PLAN ON S-040. DECK SPANS 36" OR LESS DO NOT
- REQUIRE SIDE LAP FASTENERS. END BEARING: 1 1/2" MINIMUM.

APPROVAL PRIOR TO ANY DECK WELDING.

END JOINTS: LAPPED DO NOT HANG ANYTHING FROM THE ROOF DECK. PER AWS D1.3. A WELDING PROCEDURE SPECIFICATION (WPS) AND A PROCEDURE QUALIFICATION RECORD (PQR) FOR WELDING SHEET METAL MUST BE SUBMITTED TO THE EOR FOR REVIEW AND

### STEEL JOISTS

- MATERIALS STEEL JOISTS: SJI SPECIFICATIONS, K SERIES. LONG SPAN STEEL JOISTS: IN ACCORDANCE WITH SJI
- SPECIFICATIONS. BRIDGING AND ACCESSORIES: IN ACCORDANCE WITH SJI
- SPECIFICATIONS. HIGH-STRENGTH BOLTS: ATSM A325
- CARBON STEEL BOLTS: ASTM A307, GRADE A
- WELD ELECTRODE: IN ACCORDANCE WITH AWS D1.1 FABRICATE AND ERECT JOISTS IN ACCORDANCE WITH THE SJI
- SPECIFICATIONS.
- PERFORM SHOP AND FIELD WELDING WITH CERTIFIED WELDERS IN ACCORDANCE WITH AWS D1.1
- INSTALL 3/4 INCH DIAMETER HIGH STRENGTH BOLTS, SNUG TIGHT, IN BOLTED JOIST-TO-STRUCTURAL STEEL, JOIST-TO-JOIST GIRDER, AND JOIST SPLICE CONNECTIONS.
- INSTALL CARBON STEEL BOLTS IN BOLTED CONNECTIONS FOR BRIDGING AND JOIST ACCESSORIES.
- INSTALL BRIDGING AND UPLIFT BRIDGING AS REQUIRED BY THE SJI SPECIFICATIONS.

### CONCRETE AND MASONRY ANCHORS EXPANSION ANCHORS: WEDGE TYPE, CARBON STEEL, ZINC PLATED OR

- SIMILARLY TREATED FOR CORROSION RESISTANCE. INSTALL IN STRICT ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS. EXPANSION ANCHORS SHALL HAVE BEEN TESTED AND QUALIFIED FOR USE IN ACCORDANCE WITH ACI 355.2 AND ICC-ES ACI 193 FOR USE IN CONCRETE
- APPLICATIONS, OR ICC-ES ACO1 FOR USE IN MASONRY APPLICATIONS. ADHESIVE ANCHORS: CARBON STEEL, A36 MATERIAL OR EQUIVALENT, WITH A TWO-PART, PREPACKAGED AND PREMEASURED ADHESIVE READY FOR INJECTION INTO THE ANCHOR HOLE. INSTALL ACCORDANCE WITH THE
- MANUFACTURER'S INSTRUCTIONS. ADHESIVE ANCHORS SHALL HAVE BEEN TESTED AND QUALIFIED FOR USE IN ACCORDANCE WITH ACI 355.4 AND ICC-ES AC308 FOR USE IN CONCRETE APPLICATION. OR ICC-ES AC58 FOR USE IN MASONRY APPLICATIONS.

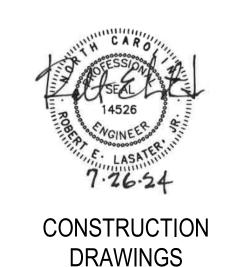
### **POST-INSTALLED ANCHORS**

UNLESS OTHERWISE INDICATED ON PLANS, POST-INSTALLED ANCHORS SHALL CONSIST OF THE FOLLOWING ANCHOR TYPES. OR APPROVED EQUAL

	ADHESIVE ANCHOR	MECHANICAL ANCHOR
SOLID CONCRETE	HILTI HY 200 SAFE SET HILTI RE 500 SD DEWALT/POWERS AC200+ DEWALT/POWERS PURE110+	HILTI KWIK HUS EZ HILTI KWIK BOLT TZ DEWALT/POWERS POWER-STUD+SD2 DEWALT/POWERS SCREW-BOLT+
GROUTED MASONRY	HILTI HY 270 DEWALT/POWERS AC100+GOLD	HILTI KWIK BOLT 3 DEWALT/POWERS POWER-STUD+SD1
HOLLOW MASONRY OR BRICK	HILTI HY 270 WITH APPROPRIATE SCREEN TUBE DEWALT/POWERS AC100+GOLD	HILTI HLC SLEEVE ANCHOR DEWALT/POWERS LOK-BOLT AS

- SUBSTITUTION REQUESTS FOR ALTERNATIVE PRODUCTS MUST BE APPROVED IN WRITING BY THE STRUCTURAL ENGINEER OF RECORD PRIOR TO USE. CONTRACTOR SHALL PROVIDE CALCULATIONS DEMONSTRATING THAT THE SUBSTITUTED PRODUCT IS CAPABLE OF
- ACHIEVING THE PERFORMANCE. INSTALL ANCHORS PER THE MANUFACTURED INSTRUCTIONS, AS
- INCLUDED IN THE ANCHOR PACKAGE. ADHESIVE ANCHORS INSTALLED IN HORIZONTAL TO VERTICALLY OVERHEAD ORIENTATION TO SUPPORT SUSTAINED TENSION LOADS SHALL BE DONE BY A CERTIFIED ADHESIVE ANCHOR INSTALLER (AAI) AS CERTIFIED THROUGH ACI/CRSI (ACI 318-11 D.9.2.2). PROOF OF CURRENT CERTIFICATION SHALL BE SUBMITTED THE ENGINEER FOR APPROVAL
- PRIOR TO COMMENCEMENT OF INSTALLATION. ADHESIVE ANCHORS MUST BE INSTALLED IN CONCRETE AGED A MINIMUM OF 21 DAYS (ACI 318-11 D.2.2).
- ADHESIVE ANCHORS SHALL HAVE BEEN TESTED AND QUALIFIED FOR USE IN ACCORDANCE WITH ACI 355.4 AND ICC-ES AC308 FOR USE IN CONCRETE APPLICATION, OR ICC-ES AC58 FOR USE IN MASONRY APPLICATIONS.





## 

ISSUE DATE:

PROJECT #:

DRAWN BY:

CHECKED BY:

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**GENERAL NOTES** 

07-26-2024

02110.300

D. DRAFTER

S. ENG

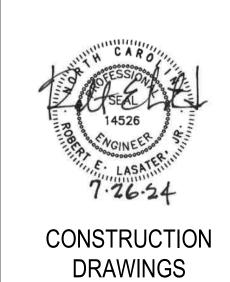
PROJECT			APPLICABLE	TO THIS	PROJECT
MATERIAL / ACTIVITY	SERVICE	Y/N		AGENT*	DATE COMPLETED
04.2 Inspection of Fabricators	SERVICE	1/14	LXILII	AGLITI	CONFECTED
rify fabrication/quality control procedures.	In-plant review (3)	Y	Periodic	1	
<b>05.1.1 Special Cases</b> ork unusual in nature, including but not limited to	Submittal review,				
ernative materials and systems, unusual design	shop (3) and/or field	N			•
plications, materials and systems with special unufacturer's requirements	inspection				
<b>05.2 Steel Construction</b> Fabricator and erector documents (Verify reports					
d certificates as listed in AISC 360, chapter N,	Submittal Review	Y	Each submittal	1	
ragraph 3.2 for compliance with construction cuments)	Submittal Neview	'	Lacii Subiiillai	'	•
Material verification of structural steel	Shop (3) and	Y	Periodic	1	
	field inspection	ı	renouic	'	
Embedments (Verify diameter, grade, type, length, bedment. See 1705.3 for anchors)	Field inspection	Υ	Periodic	1	
Verify member locations, braces, stiffeners, and					
plication of joint details at each connection  mply with construction documents	Field inspection	Υ	Periodic	1	
Structural steel welding:					
a. Inspection tasks Prior to Welding (Observe, or perform for each welded joint	Shop (3) and		Observe or	4	
or member, the QA tasks listed in AISC 360, Table	field inspection	Y	perform as noted (4)	1	
N5.4-1)	01 (0)				
b. Inspection tasks During Welding (Observe, or perform for each welded joint or member, the QA	Shop (3) and field	Υ	Observe (4)	1	
tasks listed in AISC 360, Table N5.4-2)	inspection		0200110 (1)		
c. Inspection tasks After Welding (Observe, or	Shop (3) and		Observe or		
perform for each welded joint or member, the QA	field inspection	Υ	perform	1	•
tasks listed in AISC 360, Table N5.4-3) d. Nondestructive testing (NDT) of welded joints:	-		as noted (4)		<u> </u>
see Commentary					
400	Shop (3) or field				
Complete penetration groove welds 5/16" or greater in risk category III or IV	Ultrasonic	N	Periodic	•	
	testing - 100%				
2) Complete paratration are an end 5/40"	Shop (3) or field Ultrasonic			.	
<ol> <li>Complete penetration groove welds 5/16" or greater in risk category II</li> </ol>	testing - 10% of	N	Periodic		
	welds mimimum				
	Shop (3) or field				
Thermally cut surfaces of access holes when material t > 2"	magnetic Partical or	N	Periodic	•	•
access noies when material t > 2	Penetrant testing				
4) Welded joints subject to fatigue	Shop (3) or field				
when required by AISC 360,	radiographic or Ultrasonic testing	N	Periodic		
Appendix 3, Table A-3.1 5) Fabricator's NDT reports when			Each		
fabricator performs NDT	Verify reports	N	Submittal (5)		•
Structural steel bolting:	Shop (3) and				
<del>-</del>	field inspection		Observe or		
a. Inspection tasks Prior to Bolting (Observe, or perform for each bolted connection, in accordance		Υ	perform	1	
with QA tasks listed in AISC 360, Table N5.6-1)			as noted (4)		
b. Inspection tasks During Bolting (Observe the QA		Υ	Observe (4)	1	
tasks listed in AISC 360, Table N5.6-2)  1) Pre-tensioned and slip-critical joints		N			
a) Turn-of-nut with matching markings		N	Periodic	1	
b) Direct tension indicator		N	Periodic		
c) Twist-off type tension control bolt		N	Periodic		
d) Turn-of-nut without matching markings		N	Continuous		
e) Calibrated wrench		N	Continuous		•
2) Snug-tight joints		Υ	Periodic	1	
c. Inspection tasks After Bolting (Perform tasks for each bolted connection in accordance with QA		Υ	Perform (4)	1	
tasks listed in AISC 360, Table N5.6-3)		_	( / /		
Inspection of steel elements of composite	Shop (3) and field		Observe or		
nstruction prior to concrete placement in cordance with QA tasks listed in AISC 360, Table	inspection and testing	N	perform as noted (4)	.	
.1	County				
05.2.2 Steel Construction Other an Structural Steel					
Material verification of cold-formed steel deck:					
a. Identification markings	Field inspection	Y	Periodic	1	
b. Manufacturer's certified test reports	Submittal review	Y	Each Submittal	1	
Connection of cold-formed steel deck to supporting	Shop (3) and				-
ucture:	Field inspection	_			•
a. Welding		N	Periodic		•
b. Other fasteners (in accordance with AISC 360, Section N6)					
Verify fasteners are in conformance with     approved submittal		Υ	Periodic	1	
approved submittal  2) Verify fasteners installation is in conformance					
with approved submittal and		Y	Periodic	1	
manufacturer's recommendations	Ohar (O)				
Reinforcing steel	Shop (3) and field inspection				
a. Verification of weldability of steel	•	N	Periodic		
other than ASTM A706		. •	. Unouit		
b. Reinforcing steel resisting flexural and axial forces in intermediate and special moment frames,				.	
boundary elements of special concrete structural		N	Continuous		
walls and shear reinforcement			0- "		
c. Shear reinforcement d. Other reinforcing steel		N N	Continuous Periodic	•	•
<u> </u>		IN	r enoule	•	•
05.3 Concrete Construction	Chon (2) ====!				
Inspection of reinforcing steel installment (see 05.2.2 for welding)	Shop (3) and field inspection	Y	Periodic	1	
Inspection of prestressing steel installation	Shop (3) and	N	Periodic		
Inspection of anchors cast in concrete where	field inspection				
INSDECTION OF ANCHOUS CASE IN CONCRETE WHERE	Shop (3) and		1	i	1

4. Repeation of nucleos and relationing steel produced in the content of the cont	TO THIS	S PROJECT
4. Inspection of anchors and inflorming steel post- including werlfacilition of anchor to type, anchor in minimum processing anchor specially additionated anchors in standament processing anchor specially additionated anchors in minimum processing anchor specially additionated anchors in feel inspection of anchors in minimum processing anchors in minimum processin	AGENT*	DATE
installation in hundermat concrete. Per resisearch reports recluding wherefactors of anniver type recluding wherefactors of anniver type recluding wherefactors of anniver type recluding wherefactors and the spacing, eight segment proceedings, and the spacing, eight segment and source shadeness, anchors spacing, eight segment of controls. Shorp (3) and delinesce, concrete enter the state of dispersion of controls of anniversal state of dispersion of controls of anniversal state of dispersion of controls of the state of the space of t	AGENT	COMPLET
6. Fresh concrete sampling, perform slump and air control of control of the control of sampling, perform slump and air control of control of the control of sampling, perform slump and air control of control of the co	1	
6 Freeh concrete sampling, perform sluring and air content tols and determine temperature of control tols and determine temperature and selection for maintenance of specified caring proper and the proper selection for maintenance of specified caring proper performs techniques  8 inspection of prestressing force  a. Application of prestressing force  b. Erdunding of broader prestressing force  a. Application of prestressing force  b. Erdunding of broader prestressing therdone in selective force-testing system.  10 I. Eredition of presents concrete members  a. Inspect in accordance with control to the construction obscurated to concrete sharp bottom in accordance with section 1705-2.  10 Freedon of presents to concrete shortly, prior to the control of the c	1	
for proper application techniques  Sinspeation for mainstanance of specified curing femperature and techniques  Sinspeation for prestressed concrete:  a. Application of prestressing force  b. Circulary of bornteel prestressing force  a. Imaged an organization of prestressing force  b. Circulary of bornteel prestressing force  a. Imaged an accordance with construction documents  a. Imaged an accordance with construction documents  b. Perform inspections of welding and bornteel prestressing force with construction documents  b. Perform inspections of welding and bornteel prestressing force with construction documents  b. Perform inspections of welding and point or removal of shores and structural slabs  12. Impaction of in-situ convertee strength, prior to removal of shores and structural slabs  12. Impaction of forwards for shape, lines, contains and diamnations  13. Concrete strength listing and verification of compliance with construction documents  14. Verification of construction  15. Concrete strength listing and verification of compliance with construction for more presentation of compliance with construction of compliance with construction of compliance with construction  15. Level B. Quality Assurance:  1. Verification of male flue, prior to construction and for every 6,000 SF during compliance with construction of construction of construction of construction and for every 6,000 SF during compliance with proposed submittals  19. Level B. Quality Assurance:  1. Verification of proportions of materials in previous of presidence of the project site of the	1	
temperature and techniques "inspection of Presentation P		
9. Inspection of prestressing force b. Grouting of bonded prestressing fendons in elementary control of the presentation of th	1	·
10. Erotating of bonded prestressing tendons in solemic-floor-consisting systems as inspection of precaset concrete members a. Inspectin accordance with construction documents  10. Erection of precaset concrete members a. Inspectin accordance with construction documents  10. Perform inspections of welding and bolding in accordance with Section 1705.2.  11. Verification of In-situ concrete stargeth, prior to grow and shores and forms from beams and structural slabs. The prior for removal of shores and forms from beams and structural slabs. Field inspection of the prior for removal of shores and forms from beams and structural slabs. The prior for removal of shores and forms from beams and structural slabs. The prior for removal for shores and compliance with approved submittals. Field inspection of the prior compliance with approved submittals. Field inspection of the prior compliance with approved submittals. Field inspection of the prior compliance with approved submittals. Field inspection of the prior construction of firm and fixed prior to construction and for every 5,000 ST with the prior to construction and for every 5,000 ST with growing construction. Field inspection of the prior to construction and for every 5,000 ST with growing construction. Field inspection of the prior to construction and for every 5,000 ST with growing construction. Field inspection of the prior to construction and for every 5,000 ST with growing construction. Field inspection of the prior to construction and for every 5,000 ST with growing construction. Field inspection of the prior to construction and for every 5,000 ST with growing construction. Field inspection of the prior to construction and protestically and the prior to construction of the prior to remove the prior to construction and protestically and the prior to remove the		•
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tocation and dimensions    Table   Tab	1	
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specimens  N Level C - Continuous  19. Observe preparation of prisms  Field inspection  Y Level B - Periodic	1	
19. Observe preparation of prisms  Field inspection  Y Periodic Level C		
Level C -	1	
1705.5 Wood Construction Continuous		
1. Inspection of the fabrication process of wood structural elements and assemblies in accordance with Section 1704.2.5		

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			APPLICABLE	E TO THIS	DATE
MATERIAL / ACTIVITY	SERVICE	Y/N	EXTENT	AGENT*	COMPLET
3. For high-load diaphragms, verify nominal size of framing members at adjoining panel edges, nail or staple diameter and length, number of fastener lines, and that spacing between fasteners in each line and at edge margins agree with approved building plans	Field inspection	N	Periodic		
4. Metal-plate-connected wood trusses spanning 60 feet or greater: verify temporary and permanent restraint/bracing are installed in accordance with the approved truss submittal package	Field inspection	N	Periodic		
1705.6 Soils  1. Verify materials below shallow foundations are adequate to achieve the design bearing capacity.	Field inspection	Υ	Periodic	1	
<ul><li>2. Verify excavations are extended to proper depth and have reached proper material.</li><li>3. Perform classification and testing of controlled fit</li></ul>	Field inspection	Y	Periodic	1	•
materials.  4. Verify use of proper materials, densities, and lift	Field inspection	Y	Periodic	1	•
thicknesses during placement and compaction of controlled fill	Field inspection	Y	Continuous	1	
5. Prior to placement of controlled fill, observe subgrade and verify that site has been prepared properly  1705.7 Driven Deep Foundations	Field inspection	Y	Periodic	1	
Verify element materials, sizes and lengths comply with requirements	Field inspection	N	Continuous		
Determine capacities of test elements and conduct additional load test, as required	Field inspection	N	Continuous		
3. Observe driving operations and maintain complete and accurate records for each element	Field inspection	N	Continuous		
4. Verify placement locations and plumbness, confirm type and size of hammer ,record number of blows per foot of penetration, determine required penetrations to achieve design capacity, record tip and butt elevations and document any damage to foundation	Field inspection	N	Continuous		
element  5. For steel elements, perform additional inspections	See Seetien 1705 2	N.	See Section		
per Section 1705.2  6. For concrete elements and concrete-filled	See Section 1705.2	N	1705.2 See Section	•	•
elements, perform additional inspections per Section 1705.3	See Section 1705.3	N	1705.3		•
7. For specialty elements, perform additional inspections as determined by the registered design professional in responsible charge	Field inspection	N	In Accordance with Construction Documents		
Perform additional inspections and tests in accordance with the construction documents	Field inspection and testing	N	In Accordance with Construction Documents		
1705.8 Cast-in-Place Deep Foundations  1. Observe drilling operations and maintain complete and accurate records for each element	Field inspection	N	Continuous		
2. Verify placement locations and plumbness, confirm element diameters, bell diameters (if applicable), lengths, embedment into bedrock (if applicable) and adequate end-bearing strata capacity. Record concrete or grout volumes	Field inspection	N	Continuous		
3. For concrete elements, perform additional inspections in accordance with Section 1705.3	See Section 1705.3	N	See Section 1705.3		
Perform additional inspections and tests in accordance with the construction documents	Field inspection and testing	N	In Accordance with Construction Documents		
1705.9 Helical Pile Foundations  1. Verify installation equipment, pile dimensions, tip elevations, final depth, final installation torque and other data is required	Field inspection	N	Continuous	-	
Perform additional inspections and tests in accordance with the construction documents	Field inspection and testing	N	In Accordance with Construction Documents	-	
1705.10.1 Structural Wood Special Inspections For Wind Resistance  1. Inspection of field gluing operations of elements of the main windforce-resisting system	Field inspection	N	Continuous		
Inspection of nailing, bolting, anchoring and other fastening of components within the main windforce-	Shop (3) and	N	Periodic		
resisting system 1705.10.2 Cold-formed Steel Special Inspections	field inspection				-
For Wind Resistance  1. Inspection during welding operations of elements of	Shop (3) and				
the main windforce-resisting system  2. Inspections for screw attachment, bolting,	field inspection	N	Periodic		•
anchoring and other fastening of components within the main windforce-resisting system  1705.10.3 Wind-resisting Components	Shop (3) and field inspection	N	Periodic	·	
1. Roof cladding	Shop (3) and field inspection	N	Periodic		
2. Wall cladding	Shop (3) and field inspection	N	Periodic		
1705.11.1 Structural Steel Special Inspections for Seismic Resistance					
Inspection of structural steel in accordance with AISC 341	Shop (3) and field inspection	N	In Accordance with ASCE 341	•	
1705.11.2 Structural Wood Special Inspections for Seismic Resistance  1. Inspection of field gluing operations of elements of the seismic force resisting system.	Field inspection	N	Continuous		
the seismic-force resisting system  2. Inspection of nailing, bolting, anchoring and other fastening of components within the seismic-force-resisting system	Shop (3) and field inspection	N	Periodic		
1705.11.3 Cold-formed Steel Light- Frame Construction Special Inspections for Seismic Resistance					
Inspection during welding operations of elements of the seismic-force-resisting system	Shop (3) and field inspection	N	Periodic		
Inspections for screw attachment, bolting, anchoring and other fastening of components within the seismic-force-resisting system     1705.11.4 Designated Seismic	Shop (3) and field inspection	N	Periodic		
Systems Verification Inspect and verify that the component label,					
anchorage or mounting conforms to the certificate of	Field inspection	N	Periodic		

MATERIAL / ACTIVITY  1765.115 Actilisations of proposents Special superiors for detained, femissations of elegation for detained, femissations of elegation for detained, femissations of elegation for detained femissations of elegation for elegation for detained femissations of elegation for eleg				APPLICABLE	TO THIS	PROJECT
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tor emisegency or slanduty policy explanes.  Jender Interpretation of the production						
The control of the fundamental of the control of th	Inspection during anchorage of electrical equipment	Field inspection	Y	Periodic	1	
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vibration isolation systems  Find Inspection  Find Inspec		Field inspection	N	Periodic		-
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10.5.12.1 Concrete Reinforcement Testing and Qualification for Seismic Resistance of interferent value do resist earthysials-induced reinforced connecting special structural walls of creater after the control of control	isolator units and energy dissipation devices used as		N	Periodic		
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flexural and axial forces in reinforced concrete special moment frames, special structural walls, and coupling beams connecting special structural walls.  2. Verify reinforcement weldability of ASTM A615 reinforcement used to resist earthquake-induced flexural and axial forces in reinforced concrete special moments frames, special structural walls, and coupling beams connecting special structural walls, and coupling beams connecting special structural walls, and coupling beams connecting special structural walls and coupling beams connecting special structural walls, and coupling beams connecting special structural walls and connecting special structural sections with the quality assurance connecting special structural components  1706.12.4 Selemic Boolation Systems  1706.13.4 Selemic Boolation Systems  1706.13.5 Section 17.8  1. Verify surface condition preparation of structural members  2. Verify application of sprayed fire-resistant material continues of sprayed fire-resistant members  3. Verify density of sprayed fire-resistant design  5. Verify the cohesive/lachesive bond strength of the current special members and decks  1706.14 Mastic can inturescent fire-resistant Coatings in proceed construction documents and decks  1706.15 Section invalidation and first insist systems (EFS)  1. Imagence to measure of the substructural elements and decks  1. Imagence to provide fire-resistant material continues of the substructural elements and decks  1. The inspection and testing and insistance are per the approved construction docu	Review certified mill test reports for each shipment					
reports  rep	flexural and axial forces in		N	Each Shipment		
2. Verify preinforcement weldability of ASTM A615 reinforcement used to resist earthquake-induced and moments frames, special structural walls, and coupling beams connecting special structural walls and coupling beams connecting special structural walls. and coupling beams connecting special structural walls and coupling beams connecting special structural walls. And coupling beams connecting special structural walls. And coupling beams connecting special structural walls and coupling beams connecting special structural walls. And components are coordinance with the quality assurance. Shop (3) and field testing 1705.12.3 Seismic Certification of Nonstructural Components.  Review certificate of compliance for compliance of compliance of compliance review. The components of compliance of com	structural walls, and coupling beams connecting			·		
reinforcement used to resist earthquake-induced (incrural and axial forces) in entiroction concrete special structural walls, and coupling beams cornecting special structural walls are considered or complements.  Test in accordance with the quality assurance requirements of AlSC 341  1705.12.3 Salsmic Certification of Nonstructural Components  Review certificate of compliance for designed selsmic system components  Test seismic Isolation Systems  Test seismic Isolation Systems  Test seismic Isolation systems in accordance with ASCE 7, Section 17.8  Toto 5.12.4 Selsmic Isolation Systems  Test seismic Isolation systems in accordance with ASCE 7, Section 17.8  Test seismic Isolation systems in accordance with ASCE 7, Section 17.8  Test seismic Isolation systems in accordance with ASCE 7, Section 17.8  Test seismic Isolation systems in accordance with ASCE 7, Section 17.8  Test seismic Isolation systems in accordance with ASCE 7, Section 17.8  Test seismic Isolation preparation of structural members  Test seismic Isolation preparation of structural members and testing in the section members and testing and testing in the section in the sec	•					
moments frames, special structural walls and coupling beams connecting special structural walls  1705.12.2 Structural Steel Testing and Qualification for Selamic Resistance Test in accordance with the quality assurance requirements of AISC 341  Test in accordance with the quality assurance requirements of AISC 341  Test in accordance with the quality assurance requirements of AISC 341  Tofo.12.3 Selamic Certification of Nonstructural Components  Certificate of compliance for designed seismic system components  Trofo.12.4 Selamic Isolation Systems  Test selamic isolation systems in accordance with ASCE 7, Section 17.8  Trofo.13.5 Sprayed Fire-resistant Materials  1. Verify surface condition preparation of structural members  2. Verify sportation of sprayed fire-resistant materials applied to structural members  2. Verify application of Sprayed fire-resistant materials applied to structural members  3. Verify the cohesiveradhesive bond strength of the curred sprayed fire-resistant materials applied to structural members  4. Verify density of sprayed fire-resistant design  5. Verify the cohesiveradhesive bond strength of the curred sprayed fire-resistant materials applied to structural members  4. Verify density of sprayed fire-resistant design  5. Verify the cohesiveradhesive bond strength of the curred sprayed fire-resistant material complies with approved fire-resistant tocatings and testing  1705.13.5  1705.13.5  1705.13.5  1705.13.6  1705.15 Exterior insulation and Finish Systems  (EF3)  2. Inspect of walter-resistive barrier over shealthing substrate on the current of the self-resistant properties on the self-resistant	reinforcement used to resist earthquake-induced	Review test reports	N	Each Shipment		
1705.12.2 Structural Steel Testing and Qualification for Solsmic Resistance Trest in accordance with the quality assurance requirements of AISC 341 Test in accordance with the quality assurance requirements of AISC 341 Total 1705.12.3 Selamic Certification of Nonstructural Components  Review certificate of compliance for designed selamic 241 Selamic Solation Systems  Tros. 12.4 Selamic Isolation Systems  Tros. 12.5 Servicion 17.8 Tros. 13.5 Sprayed Fire-resistant Materials  1. Verify surface condition preparation of structural members  2. Verify application of sprayed fire-resistant materials applied to structural members  2. Verify application of sprayed fire-resistant materials applied to structural members  2. Verify the cohesive adhesive bond strength of the compliance with approved fire-resistant materials applied to structural members  3. Verify the cohesive adhesive bond strength of the compliance and testing and testing and testing not structural selamic re-resistant materials  1705.14 Mastic and inturnescent Fire-resistant Coatings applied to structural elements and decks  1705.15 A Mastic and inturnescent Fire-resistant Coatings applied to structural elements and decks  1705.16 Extorior insulation and Finish Systems  (EIF3)  1705.17 Sinck Control Systems  Trios. 16 Extorior insulation and Finish Systems  (EIF3)  2. Inspect of review barrier over sheathing substitate  3. Inspect of review barrier over sheathing substitate  3. Inspect of review barrier over sheathing substitate  4. Inspect on concealment  5. Per Goldic substitution documents  7. Per ASTM  2. Inspect of review barrier over sheathing substitate  7. Per ASTM  2. Inspect of review barrier over sheathing substitate  7. Per ASTM  2. Inspect of review barrier over sheathing substitate  7. Per ASTM  8. Each Submittal  8. Per ASTM  9. Per ASTM  9. Per ASTM  1. To be determined  1. In spect penetration in systems  1. Field testing  1. Per ASTM  1. To be determined  2. Prior to occupancy and afte	moments frames, special structural walls, and					
Tost in accordance with the quality assurance requirements of AISC 341  1705.12.3 Seismic Certification of Nonstructural Components  Review certificate of compliance for designed seismic system components  1705.12.4 Seismic Isolation Systems  1705.12.4 Seismic Isolation Systems  1705.12.4 Seismic Isolation Systems  1705.13.5 Periodic Trace seismic solation systems in accordance with ASCE 7, Section 17.8  1705.13.5 Prayed Fire-resistant Materials  1. Verify surface condition preparation of structural members  2. Verify application of sprayed fire-resistant materials and testing applied to structural members  2. Verify application of sprayed fire-resistant materials applied to structural members  5. Verify the cohesive/adhesive bond strength of the cured sprayed fire-resistant material complies with approved fire-resistant material complies with approved fire-resistant material complies with approved fire-resistant material complies applied to structural elements and decks  7. Verify the cohesive/adhesive bond strength of the cured sprayed fire-resistant material complies with approved fire-resistant coatings applied to structural elements and decks  1705.14 Mastic and Intumescent Fire-resistant Coatings applied to structural elements and decks  1705.15 Erification fire-tresistant coatings applied to structural elements and decks  1705.16 Fire-resistant penetration and Finish Systems  1705.16 Fire-resistant Penetrations and Joints  1. Inspect penetration firestop  2. Inspection of water-resistive barrier over sheathing substrate  1. Inspect penetration firestop  2. Inspect fire-resistant joint systems  1. Inspect penetration firestop  2. Inspection of water-resistive barrier over sheathing substrate  1. Inspect penetration firestop  2. Inspect fire-resistant penetrations and Joints  1. Inspect penetration firestop  2. Inspect fire-resistant penetrations and Joints  1. Inspect penetration firestop  2. Inspect fire-resistant penetration of the section of t	1705.12.2 Structural Steel Testing and					
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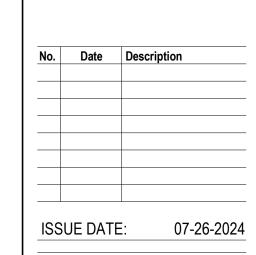


YADDITION

LLINGTON-SHOOLS

LLINGTON-SHAWTOWN ELEMENTARY



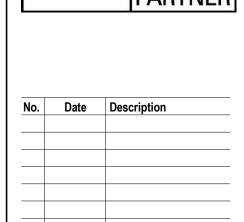


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INSPECTIONS







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**ROOF LOADING** DIAGRAM

in the Nation with a 333 Fayetteville St, Ste 225 Raleigh, NC 27601 P: 919.573.6350 F: 919.573.6355 www.sfla.biz ARCHITECTS



### **ADDITION** SHAWTOWN ELEMENTARY **LILLINGTON**



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DIAGRAM





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LILLINGTON-SHAWTOWN ELEMENTARY ADDIT

ENERGY STAR PARTNER

ISSUE DATE: 07-26-2024

PROJECT #: 02110.300

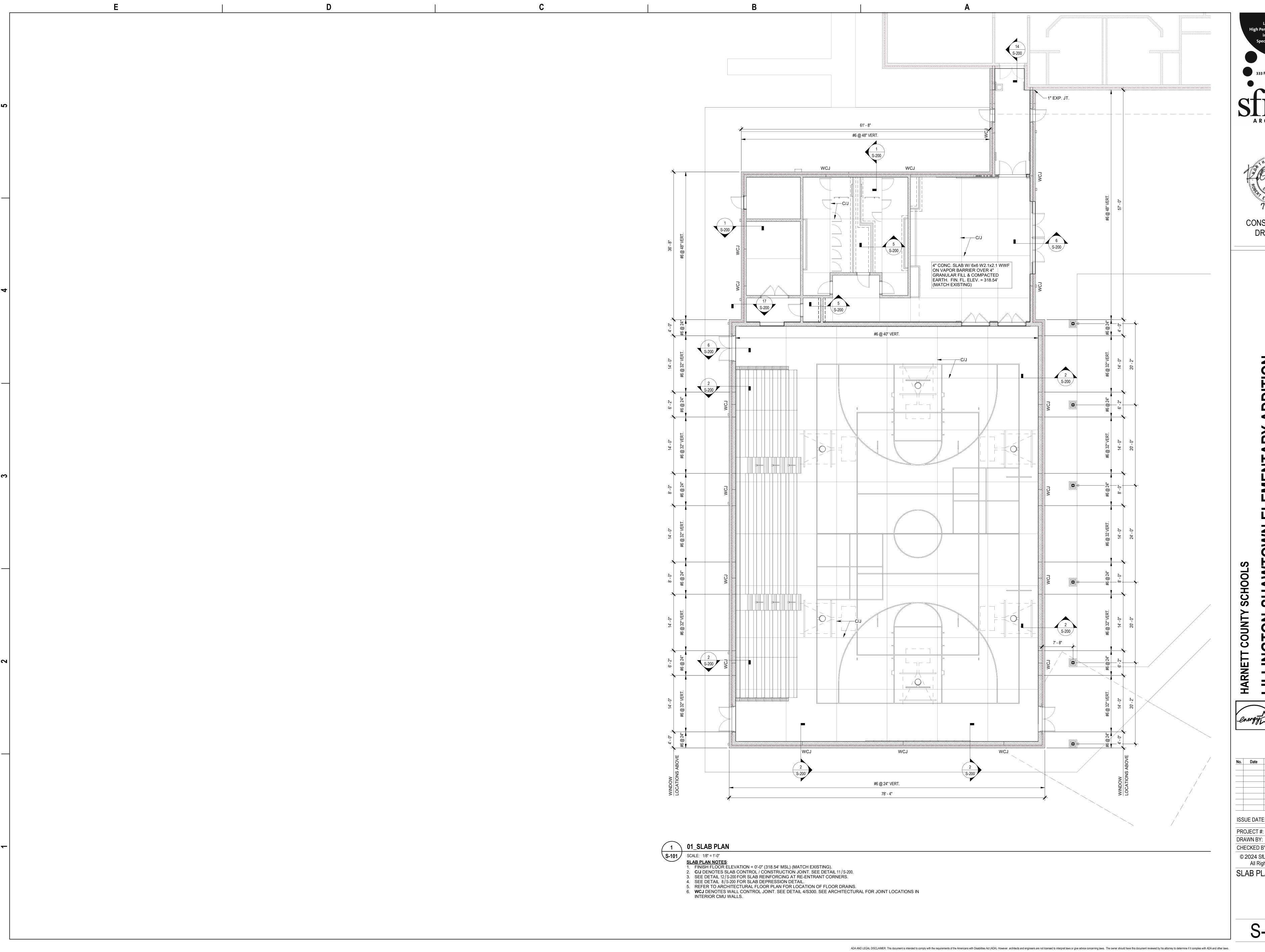
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FOUNDATION PLAN

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SHAWTOWN ELEMENTARY

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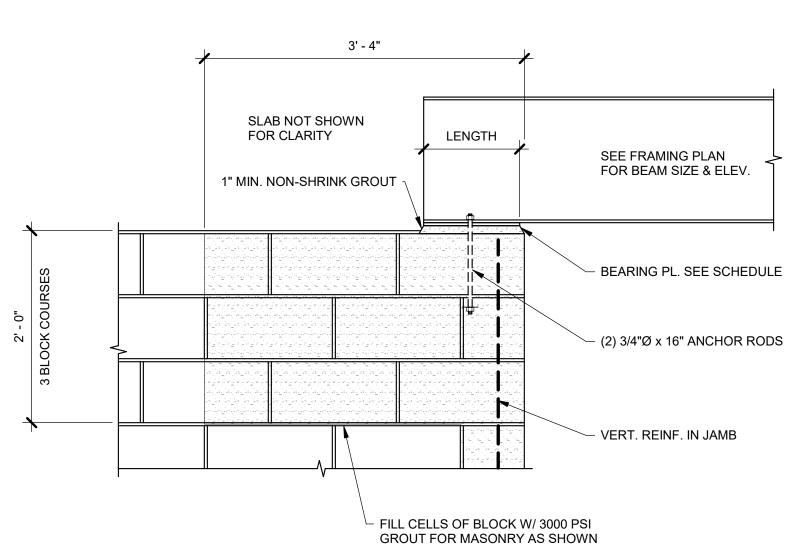
# INGTON-SHAWTOWN ELEMENTARY ADDITION

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FOUNDATION
SECTIONS

S-200

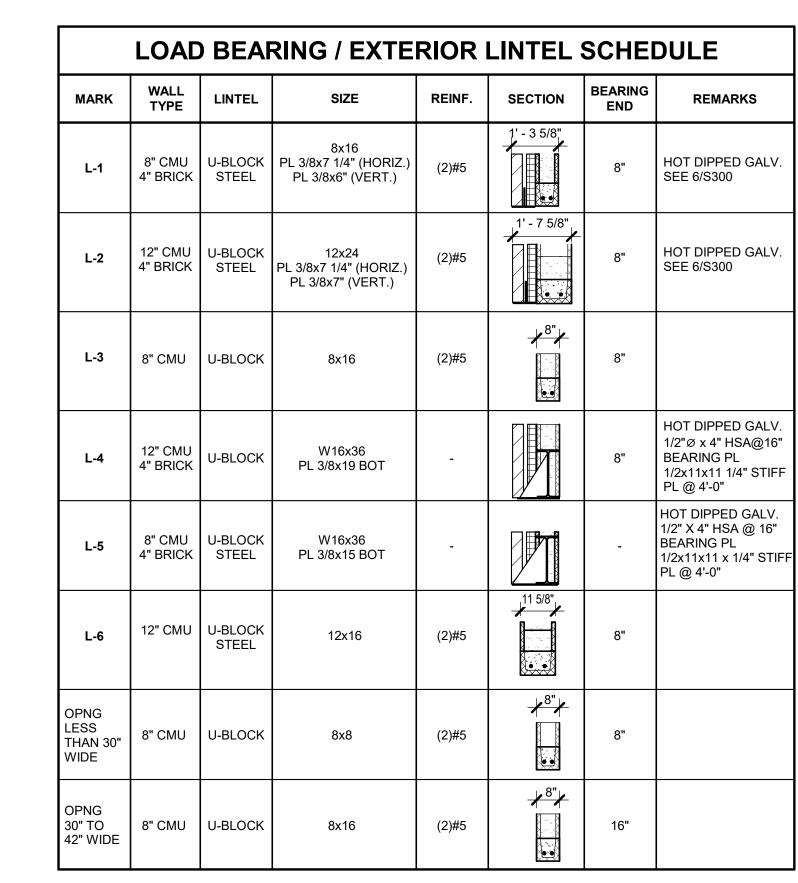
ADA AND LEGAL DISCLAIMER: This document reviewed by his attorney to determine if it complies with ADA and other laws.



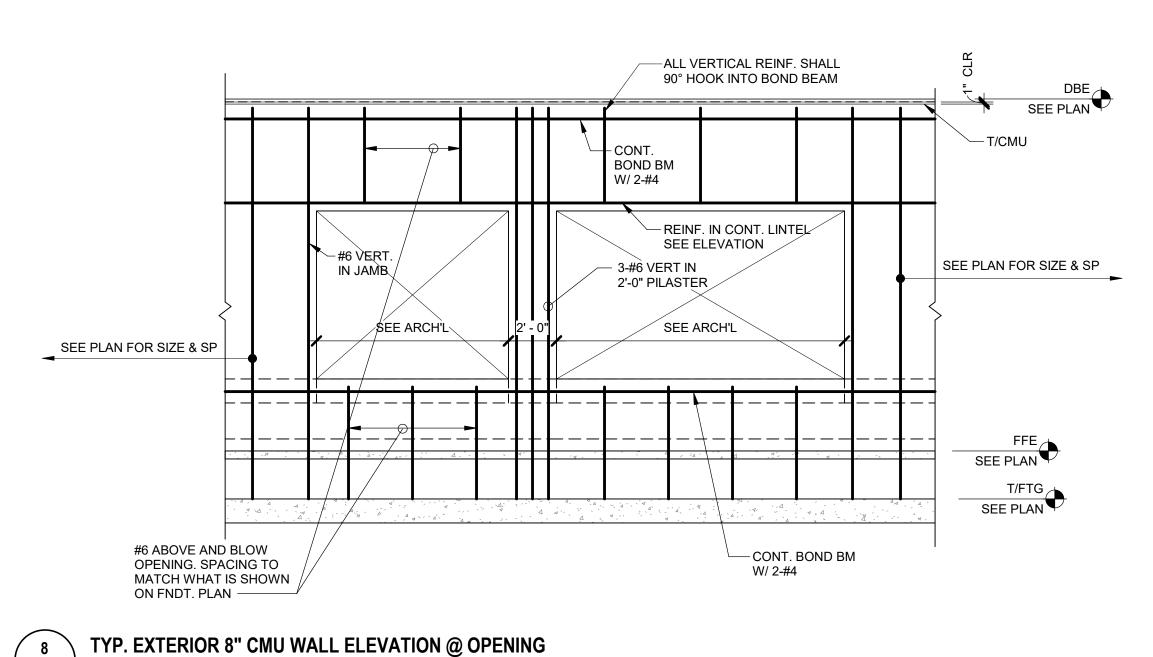


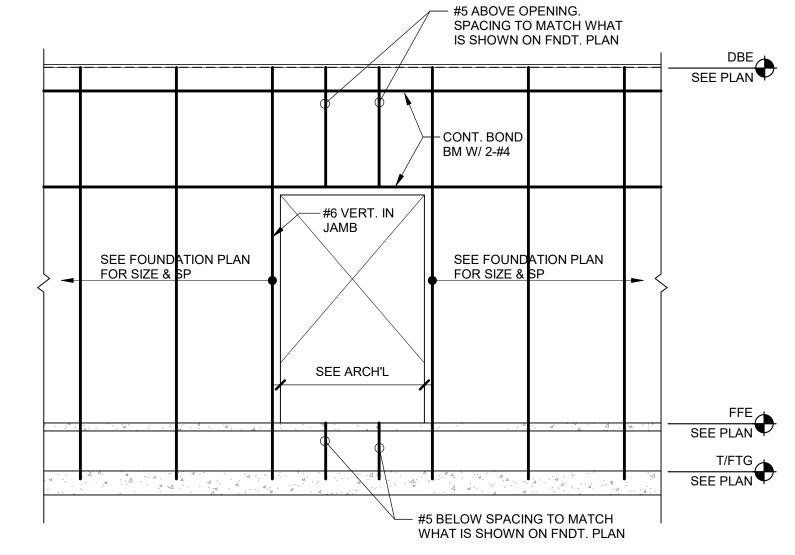
**BEAM BEARING DETAIL** 

S-300 SCALE: 1" = 1'-0"

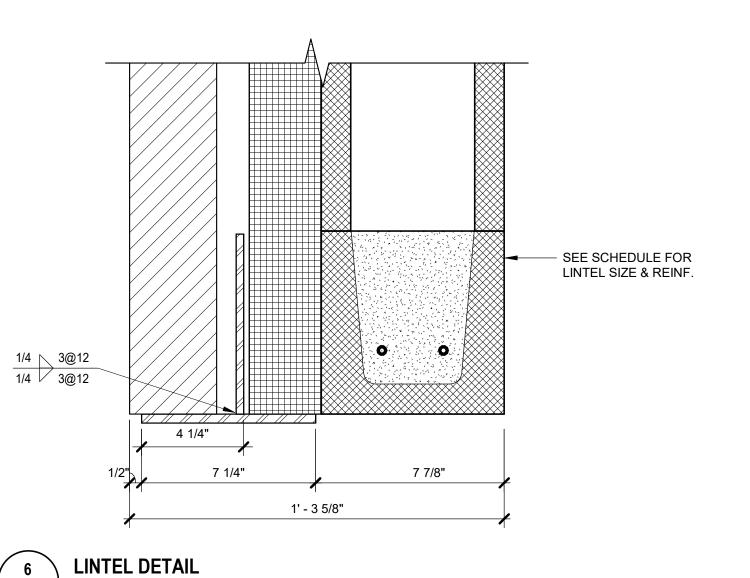


ľ	NON-LOAD	BEARII	NG / INTER	RIOR LIN	ITEL SC	HEDULE
WALL TYPE	OPENING WIDTH	LINTEL TYPE	LINTEL SIZE	REINF.	BEARING EA. END	REMARKS
8" CMU	< 4'-0"	U-BLOCK	8x8	(2) #4	8"	
8" CMU	4' THRU 6'	U-BLOCK	8x8	(2) #5	8"	
8" CMU	6'-4" THRU 8'-0"	U-BLOCK	8x16	(2) #5	8"	
8" CMU	10'-0" THRU 12'-0"	U-BLOCK	8x16	(2) #6	8"	
8" CMU	13'-0"	U-BLOCK	8x24	(2) #6 TOP (2) #6 BOT	8"	

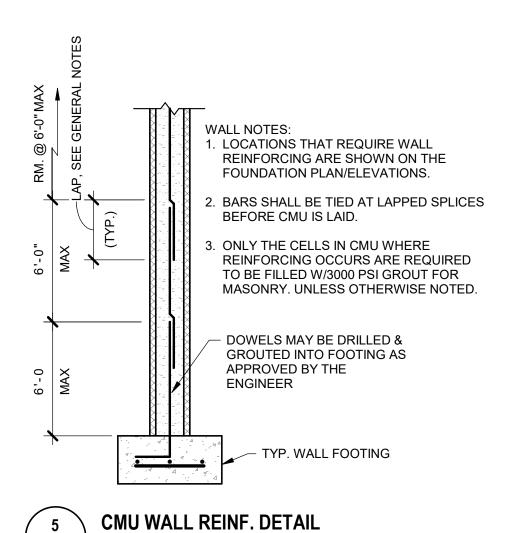


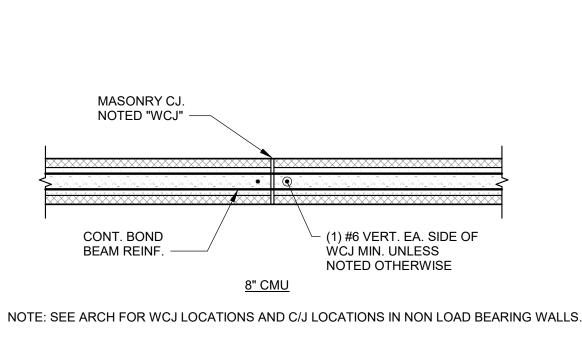


7	TYP. WALL ELEVATION - AT INT. OPENING
6-300	SCALE: 1/4" = 1'-0"

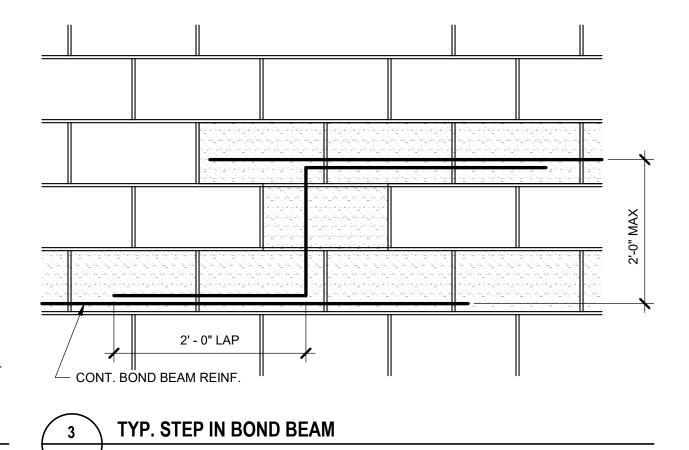


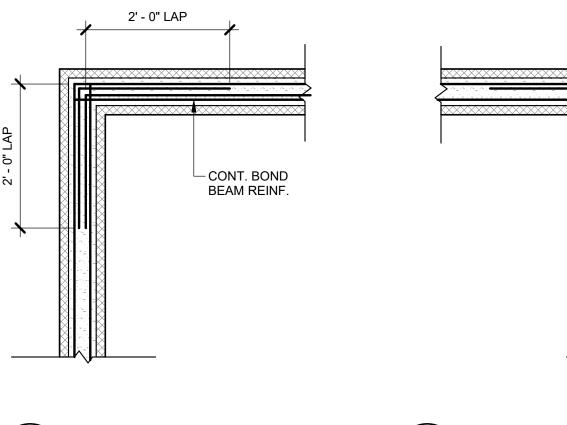
S-300 SCALE: 3" = 1'-0"



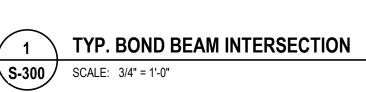


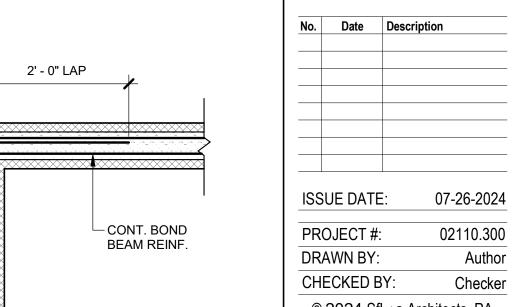
S-300 SCALE: 1/4" = 1'-0"





2	TYP. BOND BEAM CORNER	
S-300	SCALE: 3/4" = 1'-0"	





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ARCHITECTS

CONSTRUCTION

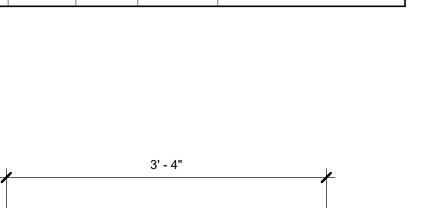
**DRAWINGS** 

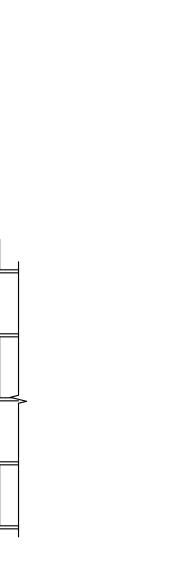
ELEMENTAR

**LINGTON** 

Raleigh, NC 27601 P: 919.573.6350 F: 919.573.6355

S-300

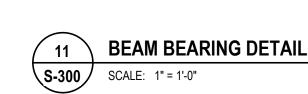




1" MIN. NON-SHRINK

GROUT

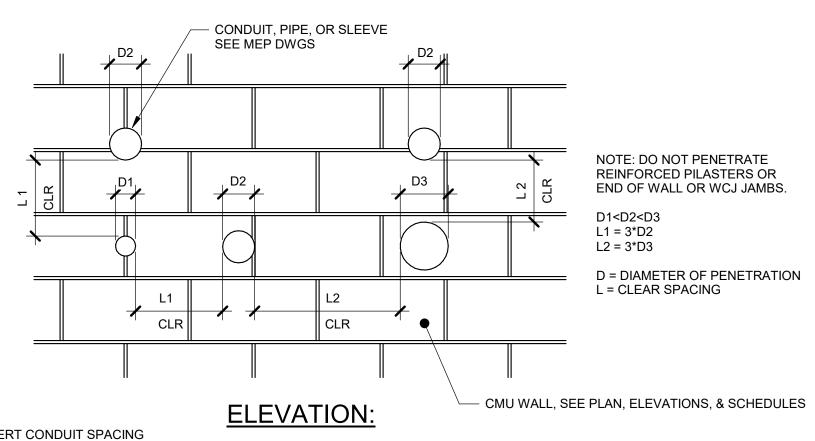
FILL CELLS OF BLOCK W/ 3000 PSI GROUT FOR MASONRY AS SHOWN

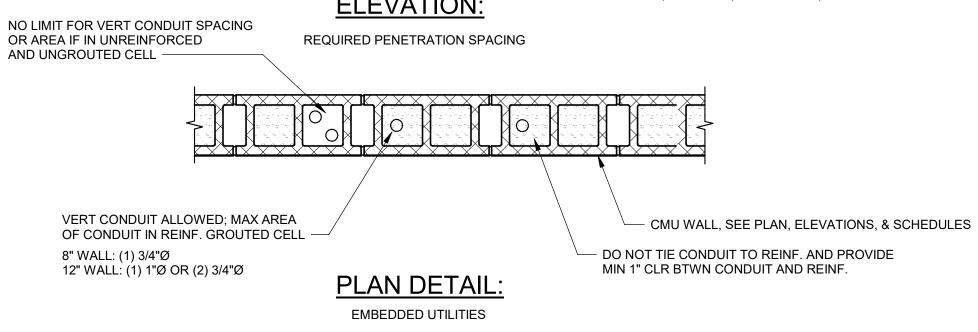


(2) 3/4" Ø x 16" ANCHOR RODS -

SEE SCHED FOR BEARING

PL SIZE ----





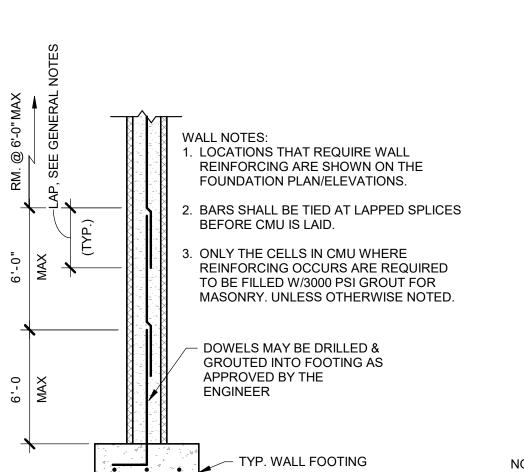
NOTES:

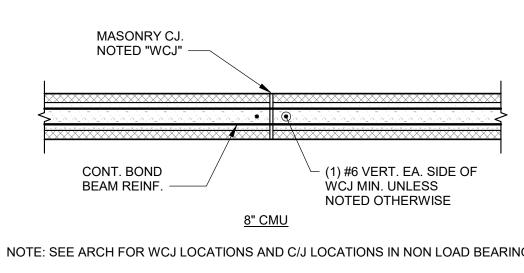
1. REFER TO MEP DRAWINGS FOR ALL TELECOM, CONDUIT, AND PIPES 8"Ø AND SMALLER. CONTRACTOR TO FOLLOW DETAIL SPACING REQUIREMENTS FOR LAYOUT. IF SPACING CANNOT BE MAINTAINED, PENETRATIONS MUST BE GROUPED BELOW CMU LINTEL. NOTIFY THE EOR FOR LINTEL REQUIREMENTS. 2. CONDUITS SHALL NOT PENETRATE BOND BEAMS NOR LINTELS. 3. PIPES WITH LIQUID, GAS, OR VAPORS HIGHER THAT 150° ARE NOT PERMITTED VERTICALLY WITHIN WALLS. 4. PIPES WITH PRESSURE IN EXCESS OF 55 PSI ARE NOT PERMITTED VERTICALLY WITHIN WALLS.

SCALE: NTS

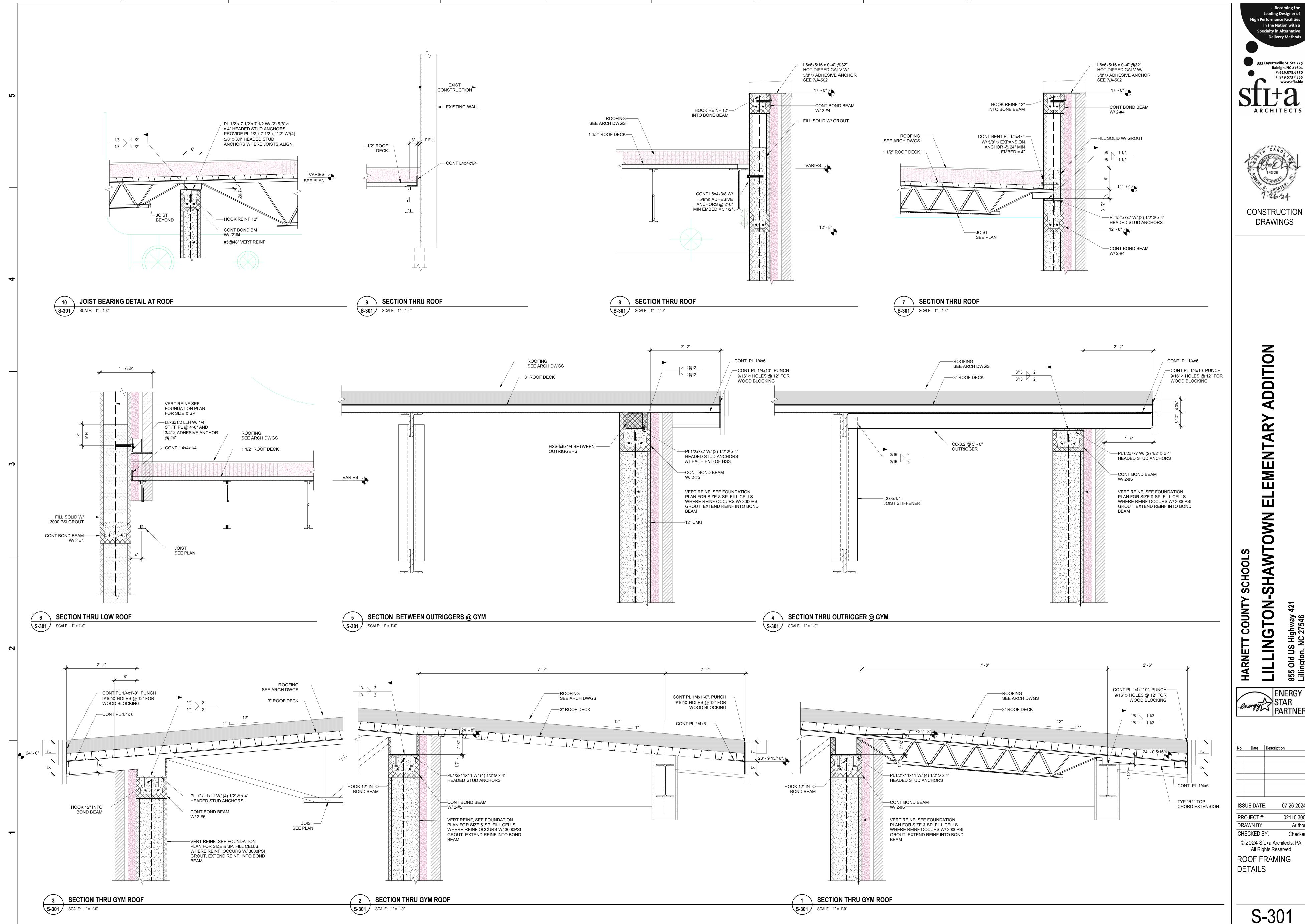
5. PIPES WITH WATER OR LIQUID SUBJECT TO FREEZING ARE NOT PERMITTED VERTICALLY WITHIN WALLS. CMU WALL UTILITY PENETRATION AND EMBEDMENT

TYPICAL DETAIL S-300 SCALE: 1" = 1'-0"









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07-26-2024

02110.300

Author

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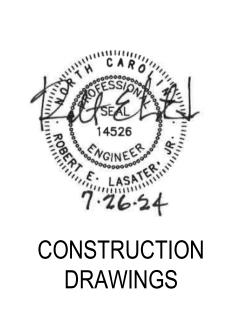
S-301

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ARCHITECTS



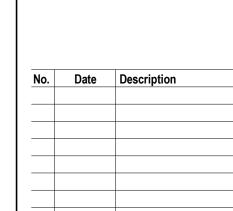
NRY ADDITION

LILLINGTON-SHAWTOWN ELEMENTARY

855 Old US Highway 421

855 Old US Highway 421

ENERGY STAR PARTNER



ISSUE DATE: 07-26-2024

PROJECT #: 02110.300

DRAWN BY: Author

CHECKED BY: Checker

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ROOF FRAMING

S-302

**DETAILS**