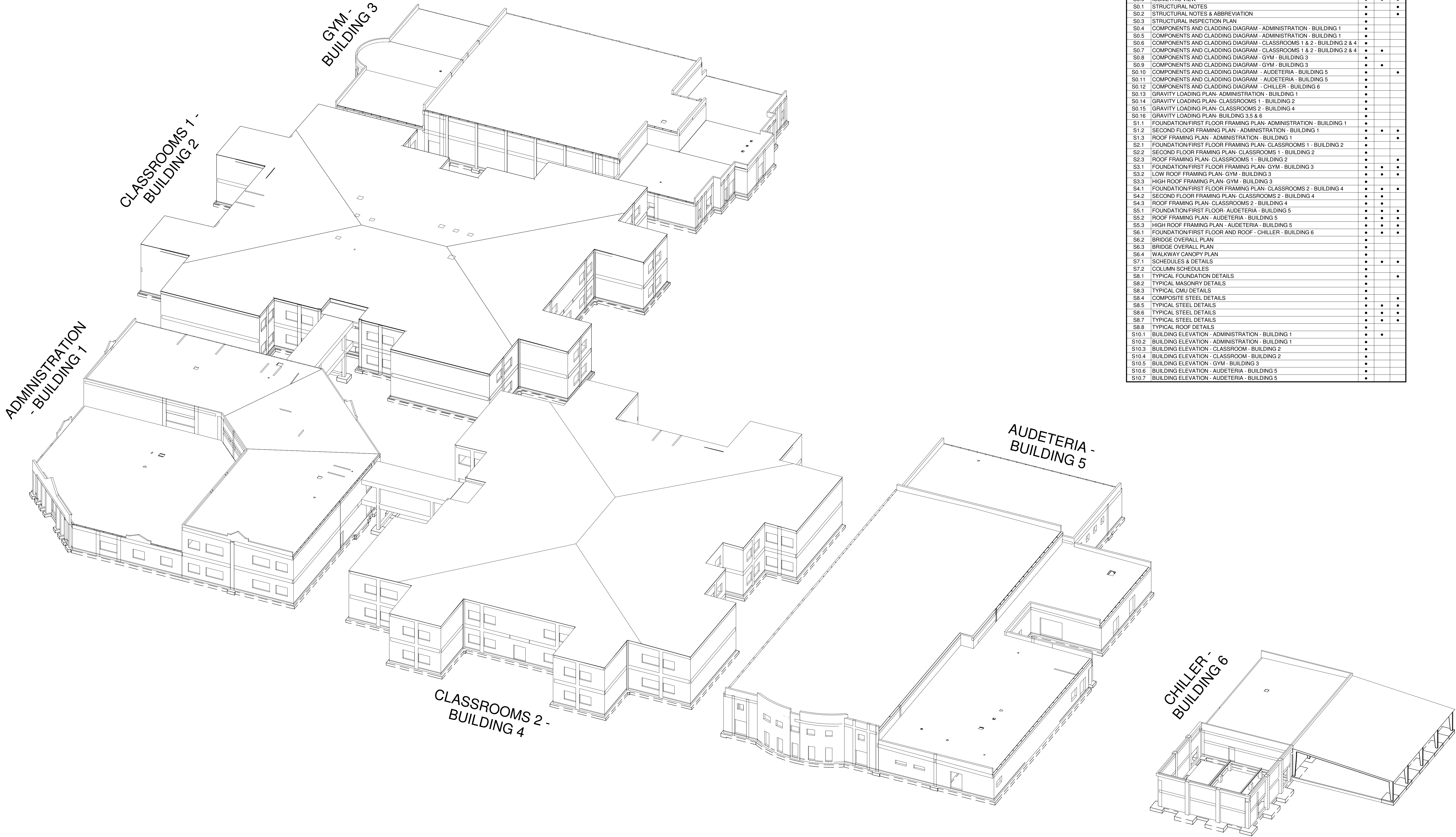




1 ISOMETRIC VIEW

ISOMETRIC VIEW IS A GRAPHICAL REPRESENTATION ONLY AND SHALL NOT BE USED FOR CONSTRUCTION PURPOSES

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CODE REVIEW:

CERTIFICATE:



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Certificate of Authorization No. 35826

TO THE BEST OF MY KNOWLEDGE AND
ABILITY, THE COMPLETED STRUCTURE
DEPICTED ON THESE PLANS
COMPLIES WITH THE APPLICABLE
MINIMUM BUILDING CODES.
FILE NO. 24FTL018

ASI #8_06/19/2025

PROJECT:

ST. LUCIE WEST GROVE
K-8 SCHOOL

10701 SW SUNDANCE VISTA BLVD
PORT ST. LUCIE, FL 34987

FOR

ST. LUCIE SCHOOL
DISTRICT

9461 BRANDYWINE LANE, PORT ST.
LUCIE, FL 34986

FOR CODE REVIEW:

REVISIONS:

#	REVISION NAME	DATE
4	ADDENDUM 4	01-27-2025
8	ASI #8	06-19-2025

FOR BID:

DRAWING TITLE:

ISOMETRIC VIEW

COMMISSION NUMBER:

24FTL018

DO NOT SCALE THE DRAWINGS

DRAWING NUMBER:

S0.0

STRUCTURAL NOTES

STRUCTURAL NOTES:

A. ELECTRONIC VERSIONS OF STRUCTURAL DRAWINGS ARE THE SOLE, COPYRIGHTED PROPERTY OF TRC WORLDWIDE ENGINEERING. ELECTRONIC VERSIONS OF DRAWINGS ARE NOT TO BE USED OR TRANSFERRED WITHOUT THE EXPRESS, WRITTEN PERMISSION OF TRC WORLDWIDE ENGINEERING.

1010 GENERAL:

A. STRUCTURAL DRAWINGS SHALL BE USED IN CONJUNCTION WITH JOB SPECIFICATIONS AND ARCHITECTURAL, MECHANICAL, ELECTRICAL, PLUMBING, AND SITE DRAWINGS. CONSULT THESE DRAWINGS FOR DEPRESSIONS, DIMENSIONS, AND OTHER DETAILS NOT SHOWN ON STRUCTURAL DRAWINGS.

B. DIMENSIONS AND CONDITIONS MUST BE VERIFIED IN THE FIELD. ANY DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER BEFORE PROCEEDING WITH THE AFFECTED PART OF THE WORK.

C. WHERE DRAWINGS AND SPECIFICATIONS ARE IN CONFLICT, THE MORE STRINGENT RESTRICTIONS AND REQUIREMENTS SHALL GOVERN.

D. PLAN NOTES, DETAILS AND SECTIONS SHALL TAKE PRECEDENCE OVER GENERAL STRUCTURAL NOTES. TYPICAL DETAILS AND SECTIONS NOT CUT ON PLANS SHALL APPLY UNLESS NOTED OTHERWISE.

E. THE STRUCTURE IS DESIGNED TO BE SELF-SUPPORTING AND STABLE AFTER THE BUILDING IS COMPLETE. IT IS THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE ERECTION PROCEDURES AND SEQUENCE OF ERECTION OF THE BUILDING AND ITS COMPONENTS DURING ERECTION. THIS INCLUDES THE ADDITION OF NECESSARY SHORING, SHEETING, TEMPORARY BRACING, GUYS OR TIE DOWNS. CONTRACTOR IS RESPONSIBLE FOR ENSURING THAT CONSTRUCTION COMPLETES WITH OSHA REGULATION INCLUDING DESIGN OF CONNECTIONS OF MEMBERS THAT WILL NOT BE FULLY COMPLETED AT TIME OF INSTALLATION.

F. TOWER CRANES ARE A CONTRACTOR RESPONSIBILITY AND SHALL BE DESIGNED FOR APPLICABLE CRITERIA INCLUDING BUT NOT LIMITED TO INSURANCE REQUIREMENTS AND APPLICABLE BUILDING CODES AT THE PROJECT LOCATION. THE CONTRACTOR SHALL SUBMIT A CRANE LAYOUT, SHOP DRAWINGS, CALCULATIONS AND REACTIONS FOR BOTH FOUNDATIONS AND CRANE TIE-IN LOCATIONS, SIGNED AND SEALED BY A LICENSED PROFESSIONAL ENGINEER. THE ENGINEER OF RECORD SHALL BE RETAINED BY THE CONTRACTOR TO EVALUATE CRANE TIE-IN FORCES ON THE BUILDING STRUCTURE AND TO PROVIDE CRANE FOUNDATION DESIGN.

1011 CONTRACTOR PROPOSED CHANGES AND SUBSTITUTIONS:

A. PROPOSED CHANGES OR SUBSTITUTIONS TO STRUCTURAL DETAILS OR PLANS SHALL BE SUBMITTED TO THE ENGINEER OF RECORD (EOR) FOR REVIEW AND APPROVAL. SUBMITTALS SHALL CONTAIN FULL DOCUMENTATION OF CHANGES OR SUBSTITUTIONS WITH SUPPORTING, SEALED CALCULATIONS (WHERE APPLICABLE), THE REASON FOR CHANGES AND SUBSTITUTIONS, RE-ANALYSIS AND/OR RE-DRAFTING TO INCORPORATE CHANGES OR SUBSTITUTIONS INTO CONTRACT DOCUMENTS ARE ADDITIONAL SERVICES FOR EOR. EOR IS NOT RESPONSIBLE FOR DETERMINING THE COST EFFECTIVENESS OF PROPOSED CHANGES.

1012 CONTRACTOR REQUIRED REMEDIAL WORK:

A. DESIGN OF REMEDIAL WORK RELATED TO CONSTRUCTION ERRORS, INSTALLATIONS NOT IN CONFORMANCE WITH CONTRACT DOCUMENTS, OR IN ANY WAY BROUGHT ABOUT BY ACTIVITIES OF THE CONTRACTOR, IS NOT WITHIN THE SCOPE OF CONSTRUCTION OR ADMINISTRATION SERVICES PROVIDED BY TRC WORLDWIDE ENGINEERING. THE CONTRACTOR SHALL CARRY IN THEIR BASE BID THE COSTS FOR ENGINEERING WORK ASSOCIATED TRC PROVIDING ADDITIONAL SERVICES IN REACTION TO NON-COMFORMING WORK.

1060 DESIGN AND CONSTRUCTION STANDARDS:

A. THE STRUCTURAL SYSTEM FOR THIS BUILDING HAS BEEN DESIGNED IN ACCORDANCE WITH THE FOLLOWING CODES AND REFERENCED STANDARDS:

(FBC 2023)	FLORIDA BUILDING CODE 8th EDITION BY THE INTERNATIONAL CODE COUNCIL, INC
(ADM1-2020)	2020 EDITION OF THE ALUMINUM DESIGN MANUAL
(ACI 318-19)	2019 EDITION OF AMERICAN CONCRETE INSTITUTE BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE
(AISC 15 ED)	FIFTEENTH EDITION OF THE STEEL CONSTRUCTION MANUAL BY THE AMERICAN INSTITUTE OF STEEL CONSTRUCTION
(AISI S100-16)	NORTH AMERICAN SPECIFICATION FOR DESIGN OF COLD-FORMED STEEL STRUCTURAL MEMBERS, WITH SUPPLEMENT 2 (2020)
(ASCE 7-22)	MINIMUM DESIGN LOADS AND ASSOCIATED CRITERIA FOR BUILDINGS AND OTHER STRUCTURES BY THE AMERICAN SOCIETY OF CIVIL ENGINEERS
(NDS-18)	2018 EDITION OF NATIONAL DESIGN SPECIFICATIONS FOR WOOD CONSTRUCTION WITH 2018 SUPPLEMENT BY AMERICAN FOREST & PAPER ASSOCIATION
(PCI)	PCI DESIGN HANDBOOK - PRECAST AND PRESTRESSED CONCRETE 8TH EDITION
(PTI)	POST-TENSION MANUAL, 6TH EDITION, POST TENSION INSTITUTE
(SDI)	STEEL DECK INSTITUTE FLOOR DECK DESIGN MANUAL, (2ND EDITION), FLOOR DECK DESIGN MANUAL (2ND EDITION), AND DIAPHRAGM DESIGN MANUAL, (4TH EDITION)
(SJI 100-15)	STANDARD SPECIFICATIONS FOR K-SERIES, LH-SERIES, AND DLH SERIES OPEN WEB STEEL JOISTS AND FOR JOIST GIRDERS
(TMS 402-2016)	BUILDING CODE FOR MASONRY STRUCTURES
(ACI 117-10)	SPECIFICATIONS FOR TOLERANCES FOR CONCRETE CONSTRUCTION MATERIALS
(ACI 301-16)	SPECIFICATIONS FOR TOLERANCES FOR STRUCTURAL CONCRETE CONSTRUCTION MATERIALS
(ACI 304R-00)	RECOMMENDED PRACTICES FOR MEASURING, MIXING, TRANSPORTING, AND PLACING CONCRETE.
(ACI 305R-10)	HOT WEATHER CONCRETING
(ACI 306R-16)	COLD WEATHER CONCRETING
(ACI 309R-05)	GUIDE FOR CONSOLIDATION OF CONCRETE
(ACI 315-18)	DETAILS AND DETAILING OF CONCRETE REINFORCING
(MNL-15 16E)	FIELD REFERENCE MANUAL: SPECIFICATIONS FOR STRUCTURAL CONCRETE (ACI 301-16) WITH SELECTED ACI AND ASTM REFERENCES
(AWS D1-1:20)	STRUCTURAL WELDING CODE - STEEL
(AWS D14-1:17)	STRUCTURAL WELDING CODE - REINFORCING STEEL
(TPW/CA BCS-18 (W/ 2020 UPDATES))	GUIDE TO GOOD PRACTICE FOR HANDLING, INSTALLING, RESTRAINING & BRACING OF METAL PLATE CONNECTED WOOD TRUSSES

FLOOD LOADS:

A. FEMA ZONE CATEGORIZATION: (X) SHADED FLOOD DESIGN NOT REQUIRED.

1061 DESIGN LOADS:

A. THE STRUCTURAL SYSTEM FOR THIS BUILDING HAS BEEN DESIGNED IN ACCORDANCE WITH THE 2023 FLORIDA BUILDING CODE, 8TH EDITION.

B. FOR SUPERIMPOSED DEAD LOADS AND LIVE LOADS SEE SHEETS:

	ENHANCED HURRICANE PROTECTION AREA (EHPA) - AUDETERIA, COLD STORAGE	OTHER EDUCATIONAL BUILDINGS CLASS ROOM, ADMIN, GYM AND CHILLER PLANT	NON EDUCATIONAL STRUCTURES
WIND LOADS			
RISK CATEGORY	IV	III	II
UL1 HURRICANE WIND SPEED (3 SECOND GUST)	184 MPH	166 MPH	155 MPH
ASD WIND SPEED (3 SECOND GUST)	143 MPH	129 MPH	120 MPH
TORNADO PLAN AREA			
TORNADO WIND SPEED	76 MPH	50 MPH	NA
WIND EXPOSURE CATEGORY	C	C	C
DIRECTIONALITY FACTOR Cd	1	0.85	0.85
BUILDING CLASSIFICATION	PARTIALLY ENCLOSED	ENCLOSED	ENCLOSED
INTERNAL PRESSURE COEFFICIENTS	-0.55 / +0.55	-0.18 / +0.18	-0.18 / +0.18
TORNADO INTERNAL PRESSURE COEFFICIENTS			
VELOCITY PRESSURE	82 PSF	68 PSF	
WIND LOAD NOTES:			
1. SEE BUILDINGS' ROOF UPLIFT PLAN AND WALL WIND LOAD TABLES FOR APPLICABLE PRESSURES.			

1070 SPECIAL INSPECTIONS:

A. THE AUDETERIA BUILDING - BUILDING 5, IS CLASSIFIED AS A "THRESHOLD BUILDING". SPECIAL INSPECTION OF THE CONSTRUCTION IS REQUIRED BY THE STATE OF FLORIDA IN ACCORDANCE WITH CHAPTER 550 OF THE FLORIDA STATUTES. CONSTRUCTION SHALL BE INSPECTED IN ACCORDANCE WITH THE STRUCTURAL INSPECTION PLAN.

1120 SHOP DRAWING REVIEW:

A. SHOP DRAWING SUBMITTALS ARE REQUIRED FOR ALL COMPONENTS SHOWN ON THESE STRUCTURAL CONTRACT DOCUMENTS INCLUDING, BUT NOT LIMITED TO:

- CONCRETE MIXES
 - CONCRETE AND MASONRY REINFORCING
 - STRUCTURAL STEEL AND CONNECTIONS
 - STEEL JOIST
 - STEEL DECK
 - LIGHT GAGE FRAMING
 - WOOD ROOF TRUSS FRAMING
 - NEW PL WOOD
 - ALL FASTENERS, ANCHORS, BOLTS, EPOXY ADHESIVES
 - WOOD FRAMING CONNECTORS
 - WOOD FRAMING
 - PRESSURE TREATED MATERIAL
 - ALUMINUM SHOP DRAWINGS
 - WELDER QUALIFICATIONS/CERTIFICATIONS FOR STEEL AND ALUMINUM
- B. SHOP DRAWINGS SHALL PROVIDE ACCURATE, DETAILED DIMENSIONAL INFORMATION AS WELL AS COMPLETE SHOP AND FIELD ERECTION DETAILS NOT SHOWN ON CONTRACT DOCUMENTS NECESSARY FOR FABRICATION AND INSTALLATION OF COMPONENT.
- C. SHOP DRAWINGS SHALL BE REVIEWED AND APPROVED BY THE CONTRACTOR'S FIELD ENGINEER PRIOR TO SUBMITTAL TO THE ARCHITECT/ENGINEER. DRAWINGS SUBMITTED WITHOUT REVIEW WILL BE RETURNED UNCHECKED.
- D. SHOP DRAWINGS WILL BE REVIEWED FOR GENERAL COMPLIANCE WITH THE DESIGN INTENT OF THE CONTRACT DOCUMENTS ONLY. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY COMPLIANCE WITH THE CONTRACT DOCUMENTS AS TO QUANTITY, LENGTH, ELEVATIONS, DIMENSIONS, ETC.
- E. SHOP DRAWING SUBMITTALS SHALL BE SUBMITTED IN ELECTRONIC PDF FILE FORMAT ONLY.

F. SHOP DRAWINGS SHALL NOT CONTAIN DETAILS COPIED OR REPRODUCED FROM THE CONTRACT DOCUMENTS. REPRODUCTION OF THE CONTRACT DOCUMENTS WILL RESULT IN A REJECTION OF THE SHOP DRAWINGS.

G. ELECTRONIC VERSIONS OF STRUCTURAL CONTRACT DOCUMENTS ARE THE SOLE, COPYRIGHTED PROPERTY OF TRC WORLDWIDE ENGINEERING. ELECTRONIC VERSIONS OF DRAWINGS ARE NOT TO BE USED OR TRANSFERRED WITHOUT THE EXPRESS, WRITTEN PERMISSION OF TRC WORLDWIDE ENGINEERING. USERS WILL SIGN A RELEASE AND REIMBURSE TRC WORLDWIDE ENGINEERING FOR EXPENSES INCURRED IN PREPARING AND TRANSMITTING ELECTRONIC DRAWINGS AT THE RATE TO BE DETERMINED UPON REQUEST.

H. THE CONTRACT DOCUMENTS SHALL GOVERN OVER THE SHOP DRAWINGS UNLESS OTHERWISE SPECIFIED IN WRITING BY THE ENGINEER.

I. CHANGES AND ADDITIONS MADE ON RE-SUBMITTALS SHALL BE CLEARLY FLAGGED AND NOTED. THE PURPOSE OF THE RE-SUBMITTALS SHALL BE CLEARLY NOTED ON THE LETTER OF TRANSMITTAL. ENGINEER REVIEW WILL BE LIMITED TO THOSE ITEMS CAUSING THE RE-SUBMITTAL.

J. ELECTRONIC SUBMITTALS OF SHOP DRAWINGS WILL ONLY BE ACCEPTED AND REVIEWED PENDING ABOVE CONDITIONS ARE MET. TRC WORLDWIDE ENGINEERING WILL ELECTRONICALLY RETURN SUBMITTALS TO THE CONTRACTOR. EOR IS NOT BE RESPONSIBLE FOR PRINTING MULTIPLE COPIES FOR DISTRIBUTION.

1121 SHOP DRAWINGS FOR SPECIALTY ENGINEERED PRODUCTS:

A. THE FOLLOWING SYSTEMS AND COMPONENTS AS A MINIMUM REQUIRE FABRICATION AND ERECTION DRAWINGS PREPARED BY A DELEGATED ENGINEER. DELEGATED ENGINEER SHALL POSSESS CURRENT PROFESSIONAL LICENSE IN THE JURISDICTION OF THE PROJECT. THE SPECIALTY/DELEGATE ENGINEER SHALL POSSESS AND MAINTAIN A MINIMUM OF \$1,000,000 LIMIT OF PROFESSIONAL LIABILITY INSURANCE.

- COLD FORMED STEEL FRAMING
 - ALUMINUM WALL SYSTEMS AND STORM PANELS
 - GLAZED CURTAIN WALLS AND STOREFRONT
 - PRE-FABRICATED STEEL STAIRS AND RAILINGS
 - ARCHITECTURAL PRECAST CONCRETE ELEMENTS
 - STRUCTURAL PRECAST SYSTEMS
 - GLASS FIBER REINFORCED CONCRETE PANEL SYSTEMS
 - ENGINEERED ROOF TOP EQUIPMENT ATTACHMENT DRAWINGS AND CALCULATIONS
 - OPEN WEB STEEL JOISTS
 - STRUCTURAL STEEL CONNECTIONS REQUIRING ENGINEERING
 - TILT-WALL ERECTION DRAWINGS
 - COLD FORMED STEEL TRUSS SYSTEMS
 - CANOPY ROOFS
 - ALUMINUM CANOPIES
 - PRE-ENGINEERED WOOD FLOOR AND ROOF TRUSSES
 - POST-TENSION REINFORCING STRANDS
 - CONCRETE FORMWORK AND LAYOUT DRAWINGS
 - VIBRO-REPLACEMENT STONE COLUMN SOIL IMPROVEMENT SHORING SYSTEMS
- B. SUBMITTALS SHALL CLEARLY IDENTIFY THE SPECIFIC PROJECT AND APPLICABLE CODES, LIST THE DESIGN CRITERIA, AND SHOW ALL DETAILS AND PLANS NECESSARY FOR PROPER FABRICATION AND INSTALLATION. CALCULATIONS AND SHOP DRAWINGS SHALL IDENTIFY SPECIFIC PRODUCT UTILIZED. GENERIC PRODUCTS WILL NOT BE ACCEPTED.

1121 SHOP DRAWINGS FOR SPECIALTY ENGINEERED PRODUCTS (CONT.):

C. SHOP DRAWINGS AND CALCULATIONS SHALL BE PREPARED AND TAMPED FOR THE DIRECT SUPERVISION AND CONTROL OF THE DELEGATED ENGINEER. SHOP DRAWINGS AND CALCULATIONS REQUIRE THE IMPRESSED SEAL (OR ELECTRONICALLY SIGNED AND SEALED PER FLORIDA RULES), DATE AND SIGNATURE OF THE DELEGATED ENGINEER.

D. REVIEW BY THE STRUCTURAL ENGINEER OF RECORD OF SUBMITTALS IS LIMITED TO VERIFYING THE FOLLOWING:

- THAT THE SPECIFIED STRUCTURAL SUBMITTALS HAVE BEEN FURNISHED.
- THAT THE STRUCTURAL SUBMITTALS HAVE BEEN SIGNED AND SEALED BY THE DELEGATED ENGINEER.
- THAT THE DELEGATED ENGINEER HAS UNDERSTOOD THE DESIGN INTENT AND HAS USED THE SPECIFIED STRUCTURAL CRITERIA. (NO DETAILED CHECK OF CALCULATIONS WILL BE MADE).
- THAT THE CONFIGURATION SET FORTH IN THE STRUCTURAL SUBMITTALS IS CONSISTENT WITH THE CONTRACT DOCUMENTS. (NO DETAILED CHECK OF DIMENSIONS OR QUANTITIES WILL BE MADE).

E. SUBMITTALS NOT MEETING THE ABOVE CRITERIA WILL NOT BE REVIEWED.

1122 RFI REVIEW:

A. ALL OF CONTRACTOR'S REQUEST(S) FOR INFORMATION (RFIs) SHALL STATE CONTRACTOR'S SUGGESTION(S) FOR RESOLUTION AND COST IMPLICATIONS (FOR SUGGESTION(S)). ENGINEER OF RECORD IS NOT RESPONSIBLE FOR DETERMINING COST OR COST EFFECTIVENESS OF RFI RESPONSES.

2011 FOUNDATIONS:

A. SEE THE FOLLOWING REPORT FOR COMPLETE GEOTECHNICAL RECOMMENDATIONS AND INSTALLATION PROCEDURES:

REPORT NO: UES PROJECT NO: 330-2440207/0000
PREPARED BY: UES - 607 NW COMMODITY COVE, PORT ST LUCIE FL 34986
TITLED: GEOTECH EXPLORATION - WESTERN GROVE K8 SCHOOL, SW
DATED: POWERLINE RD AND SW TRADITION PKWY PORT ST. LUCIE, FL NOVEMBER 15, 2024

THIS REPORT SHALL BE CONSIDERED PART OF THE CONTRACT DOCUMENTS.

B. NO APPROVAL OR VERIFICATION OF RECOMMENDATIONS MADE WITHIN THE ABOVE NOTED GEOTECHNICAL REPORT IS IMPLIED THROUGH REFERENCE OR USE BY TRC.

C. A GEOTECHNICAL ENGINEER, LICENSED WITHIN THE JURISDICTION OF THE PROJECT, SHALL VERIFY IN THE FIELD THAT ALL SITE PREPARATION FLL OPERATIONS, BEARING CONDITIONS, FOUNDATION TESTING AND INSTALLATION COMPLY WITH THE SOILS REPORT.

D. AS PROVIDED BY ABOVE GEOTECHNICAL REPORT, FOUNDATION DESIGN FOR SHALLOW FOUNDATIONS SYSTEMS ARE BASED UPON THE FOLLOWING:

- ALLOWABLE NET SOIL BEARING PRESSURE 6,000 PSF OVER SOIL TREATED W/ VIBRO-REPLACEMENT TECHNIQUE FOR ADMINISTRATION BLDG, TWO CLASSROOM BLDGS AND THE BRIDGES
 - ALLOWABLE NET SOIL BEARING PRESSURE 2,500 PSF OVER SOIL TREATED WITH GROUND IMPROVEMENT TECHNIQUES FOR THE GYMNASIUM, AUDITERIA, CHILLER ROOM AND YARD ETC.
- SEE GEOTECH REPORT FOR SITE PREPARATION, BOTH TECHNIQUES ABOVE AND OTHER INFORMATION.

E. FOUNDATION WALLS ARE DESIGNED FOR THE FOLLOWING DESIGN LOADS:

- SOIL WEIGHT: ### PCF
- AT-REST PRESSURE: (BRACED AT TOP)..... ## PCF
- ACTIVE PRESSURE:..... ## PCF
- PASSIVE PRESSURE:..... ## PCF
- FRICTION COEFFICIENT:.....###

F. SUBGRADE PREPARATION AND VAPOR RETARDER INSTALLATION FOR SLAB-ON-GRADE SHALL BE PERFORMED IN ACCORDANCE WITH PROJECT GEOTECHNICAL REPORT.

G. CONCRETE FOR FOOTINGS SHALL BE PLACED IMMEDIATELY AFTER FINAL INSPECTION AND ACCEPTANCE BY THE GEOTECHNICAL ENGINEER. IN NO CASE SHALL FOOTING EXCAVATIONS BE ALLOWED TO STAND OPEN OVERNIGHT OR DURING RAIN.

2011 FOUNDATIONS (CONT):

H. FOUNDATION WALLS WITHOUT CANTILEVERED FOOTINGS SHALL NOT BE BACKFILLED UNTIL SHORED OR PERMANENTLY SUPPORTED AT THE TOP OF WALL.

I. BACKFILLING OF WALLS AND PIERS SHALL BE PLACED SUCH THAT SYMMETRICAL LOADING SHALL BE MAINTAINED ON BOTH SIDES. WHERE DESIGN CONDITIONS REQUIRE BACKFILLING, THE BACKFILL SHALL BE PLACED IN A MINIMUM OF ONE DIAMETER AWAY FROM AND SHALL NOT INTERFERE WITH OR DISPLACE ANY TENDONS OR REINFORCING. CONDUIT SHALL NOT BE TIED TO REINFORCING OR TENDONS. CONDUITS SHALL NOT OCCUR WITHIN TRANSFER GIRDERS OR COLUMN ZONES OF SLABS.

J. GRADE SHALL BE SUCH THAT THICKNESS OF FOUNDATION, SLAB ON GRADE, ETC. IS NOT REDUCED BY MORE THAN 5% OF THAT SHOWN ON DRAWINGS.

2350 VIBRO REPLACEMENT STONE COLUMN FOUNDATION CONSTRUCTION NOTES:

A. VIBRO REPLACEMENT STONE COLUMN FOUNDATIONS ARE AS DESIGNED BY GEOPHER FOUNDATION COMPANY, OR EQUAL, IN ACCORDANCE WITH REFERENCED GEOTECH REPORT.

B. LAYOUT IS THE RESPONSIBILITY OF THE GENERAL CONTRACTOR. ELEMENTS SHALL BE INSTALLED IN THE FIELD WITHIN 6 INCHES OF LOCATION SHOWN ON PLAN.

C. DESIGN SHALL BE CONFIRMED BY A FULL-SCALE LOAD TEST PERFORMED IN A LOCATION AGREED UPON BY THE DESIGNER AND THE OWNER'S REPRESENTATIVE.

D. A QUALIFIED, FULL-TIME QUALITY CONTROL (QC) REPRESENTATIVE PROVIDED BY THE FOUNDATION INSTALLER SHALL BE RESPONSIBLE FOR INSTALLATION OF THE ELEMENTS IN ACCORDANCE WITH THE DESIGN, AND SHALL REPORT ALL FOUNDATION REMEDIATION CONSTRUCTION ACTIVITIES TO THE DESIGNER. IF AUTHORIZED BY THE OWNER, THE QC REPRESENTATIVE SHALL COORDINATE QC ACTIVITIES WITH TESTING AGENCY HIRED BY THE OWNER. UNDER NO CIRCUMSTANCE SHALL THE TESTING AGENCY DIRECT VIBRO REPLACEMENT STONE COLUMN ELEMENT INSTALLATION PROCEDURES.

E. ELEMENTS SHALL BE ACCEPTED BASED ON THE FOLLOWING CRITERIA UNLESS OTHERWISE APPROVED IN WRITING BY THE OWNER.

- DRILL DEPTH SHALL BE WITHIN 3 INCHES OR DEEPER THAN THE DEPTHS SHOWN ON PLAN.
- AVERAGE COMPACTED LIFT THICKNESS DURING EACH DAY'S PRODUCTION SHALL BE APPROXIMATELY 12 INCHES.
- ELEMENT DISPLACEMENT MEASURED DURING BOTTOM STABILIZATION SHALL BE WITHIN 15% OF THE VALUE ACHIEVED IN THE LOAD TEST.
- ELEMENT AGGREGATE COMPACTION SHALL BE RECORDED PERIODICALLY THROUGHOUT THE DAY. THE AVERAGE BLOW COUNTS RECORDED USING A DYNAMIC CONE PENETROMETER IN GENERAL ACCORDANCE WITH ASTM D1P #398) SHALL BE GREATER THAN 15 BLOWS FOR 1.75" PENETRATION, NO MORE THAN 10% OF TEST CONDUCTED EACH DAY SHALL FALL BELOW 15 BLOWS FOR 1.75" PENETRATION. USE OF DYNAMIC CONE PENETROMETER IS NOT APPROPRIATE FOR OPEN GRADE AGGREGATE SUCH AS #57 STONE.
- ELEMENT AGGREGATE SHALL BE THE SAME AS USED IN A SUCCESSFUL LOAD TEST, UNLESS OTHERWISE APPROVED IN WRITING BY THE DESIGNER. (TYPICAL AGGREGATE CONSISTS OF CLEAN 3/4" MINUS GRAVEL FOR THE BOTTOM BULLB, AND GRADED 3/4" MINUS CRUSHED STONE FOR THE SHAFT).

F. WHEN OBSTRUCTIONS ARE ENCOUNTERED THAT CANNOT BE REMOVED WITH CONVENTIONAL INSTALLATION EQUIPMENT, THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVING THE OBSTRUCTIONS. IF THE GENERAL CONTRACTOR DOES NOT DO SO IN A TIMELY MANNER THAT DOES NOT INTERRUPT FOUNDATION REMEDIATION PRODUCTION, THE INSTALLER MAY REMOVE THE OBSTRUCTIONS AND SHALL BE REIMBURSED FOR COSTS INCURRED, INCLUDING LABOR, EQUIPMENT, AND MATERIALS.

G. IF CAVE-INS OCCUR ON TOP OF A LIFT OF AGGREGATE SUCH THAT THE VOLUME OF CAVED SOILS IS GREATER THAN APPROXIMATELY 10% OF THE VOLUME OF THE AGGREGATE IN THE LIFT, THEN THE AGGREGATE SHALL BE CONSIDERED CONTAMINATED, AND SHALL BE REMOVED AND REPLACED WITH UNCONTAMINATED AGGREGATE.

H. STONE COLUMN FOOTING BOTTOMS SHALL BE PREPARED IN STRICT ACCORDANCE WITH THE FOLLOWING:

- OVER-EXCAVATION BELOW THE BOTTOM OF THE FOOTING SHALL BE LIMITED TO 3 INCHES. THIS INCLUDES LIMITING THE TEETH FROM EXCAVATORS FROM OVER-EXCAVATION BEYOND 3 INCHES BELOW THE PLAN FOOTING BOTTOM.
- FOOTING EXCAVATIONS SHALL BE MADE SHORTLY BEFORE CONCRETE IS PLACED IN THE FOOTING EXCAVATION. IF THE FOOTING CONCRETE IS NOT PLACED ON THE SAME DAY, IT SHALL BE COVERED WITH A WHACKER PACKER.
- IMMEDIATE CONCRETE PLACEMENT IS NOT POSSIBLE, A "MUD-MAT" CONSISTING OF A 3-INCH MINIMUM THICKNESS OF LEAN CONCRETE MAY BE PLACED OVER CUT SURFACE AFTER THE FOOTING EXCAVATION.
- PRIOR TO PLACING CONCRETE OR A MUD-MAT, THE TOP OF THE EXCAVATED SOIL AND STONE COLUMN ELEMENTS SHALL BE COMPACTED WITH A STANDARD, HAND-OPERATED MUD-OR WHACKER PACKER PRIOR TO FABRICATION OF STEEL AND EQUAL VIBRATING PLATE TYPE COMPACTORS SHOULD NOT BE USED FOR ELEMENTS INSTALLED IN PREDOMINANTLY FINE-GRAINED SOILS COMPACTION SHALL BE PERFORMED OVER THE ENTIRE FOOTING BOTTOMS AND SURFACE.
- LOOSE SURFACE SOILS OR SURFACE STONE COLUMN AGGREGATE.
- THE TESTING AGENCY SHALL INSPECT EACH COMPACTED FOOTING BOTTOM AND APPROVE IT IN WRITING ON THE SAME DAY THAT THE CONCRETE IS POURED IN THE FOOTING EXCAVATION. THE APPROVAL SHALL STATE THAT THE FOOTING BOTTOM AND EXPOSED STONE COLUMN AGGREGATE HAS BEEN REASONABLY DENSIFIED WITH A WHACKER PACKER (OR EQUAL). THE TESTING AGENCY SHALL PROVIDE COPIES OF THE FOOTING INSPECTION REPORTS TO THE DESIGNER.
- IN THE EVENT THAT FOOTING-BOTTOM PREPARATIONS, AS DESCRIBED ABOVE, ARE NOT PERFORMED OR DOCUMENTED IN THE ACCORDANCE WITH THE DESIGN SECTION, ANY WRITTEN OR IMPLIED WARRANTY WITH RESPECT TO VIBRO REPLACEMENT STONE COLUMN FOUNDATION PERFORMANCE CAN BE CONSIDERED VOID.

- VIBRO REPLACEMENT STONE COLUMN ELEMENTS NOT MEETING THE REQUIREMENTS OF THE DESIGN AND LOAD TEST SHALL BE RE-DRILLED AND TAMPED TO MEET PROJECT REQUIREMENTS UNLESS OTHERWISE APPROVED IN WRITING BY THE DESIGNER.
- FOOTING ELEVATIONS ARE THE RESPONSIBILITY OF THE CONTRACTOR AND SHALL BE REPORTED IN WRITING TO THE INSTALLER'S QC REPRESENTATIVE PRIOR TO INSTALLING GEOPHIER ELEMENTS.
- UTILITIES' LOCATIONS ARE THE RESPONSIBILITY OF THE CONTRACTOR. THE DESIGNER SHOULD BE NOTIFIED OF ANY CONFLICTS WITH VIBRO REPLACEMENT STONE COLUMN ELEMENT LOCATIONS SHOWN ON THE PLANS.
- ELEMENTS ARE LOCATED AT THE INTERSECTION OF REFERENCE GRID LINES OR AT THE CENTERLINE OF STRIP FOOTINGS UNLESS DIMENSIONED OTHERWISE.
- ALL VIBRO REPLACEMENT STONE COLUMN ELEMENTS HAVE A DIAMETER OF 30 INCHES, UNLESS OTHERWISE NOTED. SHAFT LENGTHS BELOW BOTTOM OF FOOTING ARE AS SHOWN ON DESIGN SPREADSHEETS UNLESS OTHERWISE AGREED UPON BY THE DESIGNER AND THE OWNER'S REPRESENTATIVE.
- AFTER COMPLETION OF STONE COLUMN INSTALLATIONS, THE GENERAL CONTRACTOR IS RESPONSIBLE FOR PROTECTION OF THE WORK. THIS INCLUDES, BUT IS NOT LIMITED TO, PROPER SITE DRAINAGE TO PREVENT PONDING OF WATER ABOVE ELEMENTS AND APPROPRIATE CONTROL AND COORDINATION OF EARTHWORK AND SUBSEQUENT DRILLING ACTIVITIES TO PREVENT DAMAGE TO INSTALLED STONE COLUMN ELEMENTS.

I. VIBRO REPLACEMENT STONE COLUMN ELEMENTS NOT MEETING THE REQUIREMENTS OF THE DESIGN AND LOAD TEST SHALL BE RE-DRILLED AND TAMPED TO MEET PROJECT REQUIREMENTS UNLESS OTHERWISE APPROVED IN WRITING BY THE DESIGNER.

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K. UTILITIES' LOCATIONS ARE THE RESPONSIBILITY OF THE CONTRACTOR. THE DESIGNER SHOULD BE NOTIFIED OF ANY CONFLICTS WITH VIBRO REPLACEMENT STONE COLUMN ELEMENT LOCATIONS SHOWN ON THE PLANS.

L. ELEMENTS ARE LOCATED AT THE INTERSECTION OF REFERENCE GRID LINES OR AT THE CENTERLINE OF STRIP FOOTINGS UNLESS DIMENSIONED OTHERWISE.

M. ALL VIBRO REPLACEMENT STONE COLUMN ELEMENTS HAVE A DIAMETER OF 30 INCHES, UNLESS OTHERWISE NOTED. SHAFT LENGTHS BELOW BOTTOM OF FOOTING ARE AS SHOWN ON DESIGN SPREADSHEETS UNLESS OTHERWISE AGREED UPON BY THE DESIGNER AND THE OWNER'S REPRESENTATIVE.

N. AFTER COMPLETION OF STONE COLUMN INSTALLATIONS, THE GENERAL CONTRACTOR IS RESPONSIBLE FOR PROTECTION OF THE WORK. THIS INCLUDES, BUT IS NOT LIMITED TO, PROPER SITE DRAINAGE TO PREVENT PONDING OF WATER ABOVE ELEMENTS AND APPROPRIATE CONTROL AND COORDINATION OF EARTHWORK AND SUBSEQUENT DRILLING ACTIVITIES TO PREVENT DAMAGE TO INSTALLED STONE COLUMN ELEMENTS.

101 FORMWORK AND SHORING (CONCRETE SLABS AND BEAMS):

A. NO STRUCTURAL CONCRETE SHALL BE STRIPPED UNTIL IT HAS REACHED AT LEAST TWO-THIRDS OF THE 28 DAY DESIGN STRENGTH (& ALL TENDONS STRESSED FOR PT SLABS). A MINIMUM OF 4 STORES OF SHORING AND (OR) RESHORING SHALL BE USED WHICH SHALL CONSIST OF ONE COMPLETE SET OF VERTICAL STRIPS AND TWO SETS OF VERTICAL COLUMNS THAT COMPRISE AT LEAST 50% OF A COMPLETE SET.

B. DRAWINGS FOR SHORING AND RESHORING SHALL BE PREPARED BY AN ENGINEER LICENSED WITHIN THE JURISDICTION OF THE PROJECT.

C. DESIGN, ERECTION AND REMOVAL OF ALL FORMWORK, SHORES AND RESHORES SHALL MEET REQUIREMENTS SET FORTH IN ACI STANDARDS 347 AND 301.

D. SUBMIT SIGNED & SEALED SHORING DRAWINGS INCLUDING POUR SEQUENCE AND CALCULATIONS, WHERE NECESSARY, TO DEMONSTRATE THAT THE POUR SEQUENCE AND SHORING/RESHORING METHODS DO NOT OVERSTRESS THE STRUCTURE. THIS ANALYSIS SHALL INCLUDE STRESSES CAUSED BY SHRINKAGE OF STRUCTURAL SLAB. PROVIDE LOCATION AND DETAILS OF POUR STRIPS IF REQUIRED TO REDUCE SHRINKAGE AND RESTRAINT CRACKS.

E. SHORING INSPECTIONS SHALL BE PERFORMED BY THE SHORING ENGINEER.

F. UNLESS ARCHITECT SPECIFIES OTHERWISE, CONSTRUCT FORMWORK SO CONCRETE SURFACES CONFORM TO THE TOLERANCE LIMITS OF ACI 117 (STANDARD SPECIFICATIONS FOR TOLERANCES FOR CONCRETE CONSTRUCTION MATERIALS). THE CLASS OF SERVICE FOR OFFSET BETWEEN ADJACENT PIECES OF FORMWORK FACING MATERIAL SHALL BE CLASS B FOR SURFACES PERMANENTLY EXPOSED TO PUBLIC VIEW AND CLASS D FOR SURFACES THAT WILL BE PERMANENTLY CONCEALED.

3103 PLUMBING SLEEVES AND EMBEDDED CONDUITS:

A. LOCATION DRAWINGS FOR ALL SLEEVES AND BLOCKOUTS IN THE CONCRETE SHALL BE SUBMITTED FOR APPROVAL BY THE STRUCTURAL ENGINEER PRIOR TO PLACEMENT.

B. ALL CONDUIT, SLEEVES, AND PIPES EMBEDDED IN OR PASSING THRU CONCRETE SHALL CONFORM TO SECTION 207.07 OF ACI 318 AND THE FOLLOWING:

- SLEEVES AND PIPES SHALL BE PLACED SO THAT REINFORCING STEEL CAN BE PLACED WITH THE SPECIFIED COVER AND CLEAR DISTANCE BETWEEN BARS.
- MINIMUM SLEEVE SPACING SHALL BE THREE DIAMETERS CENTER TO CENTER OF THE LARGER SLEEVE OR 6" CLEAR BETWEEN SLEEVES, WHICHEVER IS GREATER.
- SLEEVES OR GROUPS OF SLEEVES 16 INCH IN DIAMETER AND LARGER SHALL BE TREATED AS A SLAB OPENING AND REINFORCED PER TYPICAL OPENING REINFORCING DETAILS.

3103 PLUMBING SLEEVES AND EMBEDDED CONDUITS (CONT):

A. CONDUIT AND PIPES PLACED WITHIN SLABS, BEAMS, WALLS AND TOPPING OVER SLABS SHALL OCCUPY ONLY THE MIDDLE ONE THIRD OF THE MEMBER DEPTH OR THICKNESS. MAXIMUM CONDUIT O.D. FOR SLEEVES SHALL BE 1/2" OR SIAM OF O.D.'S FOR MULTIPLE CONDUITS THAT CROSS SHALL BE NO LARGER THAN ONE THIRD THE MEMBER DEPTH. PARALLEL CONDUITS SHALL BE SPACED WITH A MINIMUM OF 3 DIAMETERS. WHERE WALLS AND SLEEVES ARE IN CONTACT, THE DIAMETER AWAY FROM AND SHALL NOT INTERFERE WITH OR DISPLACE ANY TENDONS OR REINFORCING. CONDUIT SHALL NOT BE TIED TO REINFORCING OR TENDONS. CONDUITS SHALL NOT OCCUR WITHIN TRANSFER GIRDERS OR COLUMN ZONES OF SLABS.

B. CONDUITS AND PIPES PLACED IN COLUMNS SHALL NOT DISPLACE MORE THAN 4% OF THE CROSS SECTIONAL AREA OF COLUMN AND SHALL BE LOCATED ON THE CENTER LINE OF COLUMN. OUTLET BOXES IN COLUMNS SHALL BE APPROVED BY THE ENGINEER. CONDUITS SHALL NOT DISPLACE REINFORCING AND SHALL NOT BE DEEPER THAN REQUIRED CLEARANCE FOR REIN.

3104 CONSTRUCTION JOINTS AND CONTROL JOINTS:

A. CONSTRUCTION JOINTS AND CONTROL JOINTS SHALL BE LOCATED AS SHOWN IN PLAN OR SECTION.

B. UNLESS NOTED OTHERWISE, CONTROL JOINTS IN SLABS ON GRADE SHALL BE PROVIDED SO THAT THE MAXIMUM DISTANCE BETWEEN JOINTS SHALL BE NO MORE THAN 3 TIMES THE SLAB THICKNESS IN FEET (OR AS SHOWN ON PLANS). SAWCUT CONTROL JOINTS SHALL BE MADE AS SOON AS SLAB WILL SAFELY SUPPORT MEN AND EQUIPMENT AND THE SLAB WILL NOT BE DAMAGED BY EQUIPMENT. ASPECT RATIO (LONGSIDE TO SHORTSIDE OF CONCRETE AREA) SHALL NOT EXCEED 1.5.

C. DEVIATION FROM OR ADDITION TO CONSTRUCTION OR CONTROL JOINT LOCATIONS SHOWN SHALL BE ENGINEERED TO THE ENGINEER FOR REVIEW AND APPROVAL, AND ARE ACCEPTABLE ONLY AS A CHANGE ORDER THAT WILL INCLUDE ENGINEERING CHARGES BY THE ENGINEER OF RECORD FOR REDESIGN OF THE STRUCTURE AS REQUIRED. SHORING REQUIRED PRIOR TO IMPLEMENT REVISED CONSTRUCTION JOINTS SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.

3201 REINFORCING STEEL:

A. THE CONTRACTOR SHALL CARRY AN ALLOWANCE IN THEIR BID FOR SUPPLYING AND ERECTING (T) TONS OF REINFORCING STEEL IN ADDITION TO THAT SHOWN ON PLANS AND WITHIN SECTIONS, DETAIL AND SCHEDULES TO BE USED AT THE DISCRETION OF THE STRUCTURAL ENGINEER.

B. REINFORCING STEEL SHALL BE ASTM A615 GRADE 60 DEFORMED BARS (WELDABLE OR NON-WELDABLE) CONFORM TO THE REQUIREMENTS FOR REVIEW AND APPROVAL, AND ARE ACCEPTABLE ONLY AS A CHANGE ORDER THAT WILL INCLUDE ENGINEERING CHARGES BY THE ENGINEER OF RECORD FOR REDESIGN OF THE STRUCTURE AS REQUIRED. SHORING REQUIRED PRIOR TO IMPLEMENT REVISED CONSTRUCTION JOINTS SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.

C. CLEAR COVER TO REINFORCING SHALL BE AS INDICATED BELOW, WHERE A SPECIFIC CONDITION IS NOT NOTED, REFER TO ACI REQUIREMENTS FOR COVER.

FRAMED SLABS ON GRADE.....	TOP	BOTTOM	SIDES/EDGES
FOUNDATION WALL/PIESTER..NA	NA	2"	1 1/2" INTERIOR
SPREAD FOOTING.....	2"	3"	3"
COLUMNS & WALLS.....	NA	2"	AGAINST SOIL 1 1/2" TYPICAL
ELEVATED FRAMED SLAB.....	3/4"	3/4"	1"
INTERIOR PT.....	3/4"	3/4"	1"
INTERIOR NON-PT.....	3/4"	3/4"	1"
EXTERIOR PT.....	1"	3/4"	1"
EXTERIOR NON-PT			
#5 AND SMALLER.....	1"	1 1/2"	2"
#6 AND LARGER.....	1"	2"	2"
BEAMS			
(INTERIOR).....	1 1/2"	1 1/2"	1 1/2"
(EXTERIOR EXPOSURE).....	2"	1 1/2"	1 1/2"

NOTE: MAXIMUM DEVIATION IN BAR PLACEMENT SHALL BE AS DICATED BY ACI.

D. SEE MECHANICAL AND ELECTRICAL DRAWINGS FOR DRIPS, CHAMFERS, REGLETS, SLOTS, SLEEVES, ANCHORS, AND INSERTS. UNLESS SHOWN ON STRUCTURAL DRAWINGS NO OPENINGS LARGER THAN 12"x12" SHALL BE PLACED IN SLABS OR WALLS. FOR OPENINGS NOT SHOWN ON STRUCTURAL DRAWINGS, APPROVALS MUST BE OBTAINED FROM THE ENGINEER PRIOR TO COMMENCING FABRICATION AND PLACEMENT OF CONCRETE. SEE NOTES ON EMBEDDED ITEMS FOR ADDITIONAL LIMITATIONS.

E.

STRUCTURAL INSPECTION PLAN FOR AUDETERIA STRUCTURE ONLY

SCOPE OF WORK
THIS STRUCTURAL INSPECTION PLAN IS INTENDED AS GUIDANCE FOR THE SPECIAL INSPECTOR OF THRESHOLD BUILDINGS SO THE STRUCTURAL COMPONENTS CAN BE INSPECTED FOR GENERAL COMPLIANCE WITH THE CONTRACT DOCUMENTS. THE SPECIAL INSPECTORS LOCAL AND STATE STATUTORY DUTIES ARE NOT MODIFIED BY THIS INSPECTION PLAN. LOCAL AND STATE STATUTORY REQUIREMENTS FOR SPECIAL INSPECTORS ARE TO SUPERSEDE ANY REQUIREMENTS OF THE INSPECTION PLAN THAT ARE IN CONFLICT. FURTHER, THE CONTRACTORS CONTRACTUAL AND STATUTORY OBLIGATIONS AND DUTIES ARE NOT MODIFIED BY THE SPECIAL INSPECTORS PERFORMANCE OF THEIR DUTIES. THE CONTRACTOR HAS THE SOLE RESPONSIBILITY FOR REPAIRS OR REPLACEMENT OF ANY PART OR PORTION OF THE STRUCTURE NOT CONSTRUCTED IN ACCORDANCE WITH THE CONTRACT DOCUMENTS. THE SPECIAL INSPECTOR DOES NOT REPLACE THE DUTIES OF THE BUILDING OFFICIAL'S INSPECTOR. THE QUALITY CONTROL PERSONNEL OF THE CONTRACTOR OR THE DUTIES OF THE OWNER'S CONSTRUCTION MATERIALS TESTING AGENCY.

THE SPECIAL INSPECTOR IS OBLIGATED TO BOTH THE OWNER AND THE BUILDING OFFICIAL FOR OBSERVING THAT THE WORK IS EXECUTED IN GENERAL ACCORDANCE WITH THE CONTRACT DOCUMENTS. THE CONTRACT DOCUMENTS ARE DEFINED AS THE APPROVED, PERMITTED PLANS AND SPECIFICATIONS AND ALL ADDENDA. INSPECTIONS SHALL BE CONDUCTED IN SUCH A MANNER SO AS NOT TO REASONABLY DELAY PROGRESS OF THE PROJECT.

1. QUALIFICATIONS
THE SPECIAL INSPECTOR SHALL BE REGISTERED AS REQUIRED BY CURRENT STATUTE. FUTURE REQUIREMENTS, IF ENACTED BY LAW, WILL ALSO BE APPLICABLE TO THIS PLAN. THE SPECIAL INSPECTOR MAY SEND A FULL-TIME EMPLOYEE AS THEIR AUTHORIZED REPRESENTATIVE TO THE PROJECT. THAT PERSON SHALL POSSESS A MINIMUM OF 5 YEARS VERIFIABLE EXPERIENCE AND KNOWLEDGE IN THE STRUCTURAL SYSTEMS BEING USED AND BE A REGISTERED PROFESSIONAL ENGINEER, GRADUATE CIVIL OR STRUCTURAL ENGINEER WHO POSSESSES THE E.I. CERTIFICATE, LICENSED INSPECTOR, OR A FLORIDA CERTIFIED BUILDING INSPECTOR. DOCUMENTATION OF SUCH EXPERIENCE SHALL BE SUBMITTED TO THE STRUCTURAL ENGINEER OF RECORD (SEOR) FOR APPROVAL PRIOR TO COMMENCING WORK. SPECIFICALLY EXCLUDED FROM COMPLIANCE BY THIS PLAN SHALL BE THE PERFORMANCE OF THRESHOLD INSPECTIONS BY THE SAME INDIVIDUAL WHO PERFORMS CONCRETE TESTING.

2. DUTIES
THE SPECIAL INSPECTOR SHALL MAINTAIN A RECORD OF THE PROGRESS, WORKING CONDITIONS, ALL OBSERVATIONS GIVEN TO THE CONTRACTOR AND DEVIATIONS OF THE STRUCTURAL COMPONENTS OR THE OVERALL INTENT OF THE OFFICIAL CONTRACT DOCUMENTS. HE IS RESPONSIBLE TO POSSESS A THOROUGH KNOWLEDGE OF THE SPECIFIC OF THE PROJECT AND THE FLORIDA BUILDING GOVERNING CODE AND THE EXERCISE OF GOOD JUDGMENT. THE SPECIAL INSPECTOR'S FIELD REPORTS SHALL BE IN WRITING AND A SEPARATE REPORT SHALL BE SUBMITTED FOR EACH WORKING DAY. A JOB SITE LOG WILL BE MAINTAINED INDICATING THE DATE OF SITE VISITS, THE INSPECTOR'S NAME AND BRIEF DESCRIPTION OF THE DAYS PRIMARY ACTIVITIES. THE ACTUAL WRITTEN FIELD REPORT WILL BE SUBMITTED IN A TIMELY MANNER AND WITHIN A PERIOD AS DETERMINED AND APPROVED BY THE SEOR. EACH REPORT SHALL CONTAIN AT A MINIMUM THE PROJECT NAME AND LOCATION, BUILDING PERMIT NUMBER, NAME OF KEY INDIVIDUALS PRESENT, DATE, CONTRACTOR'S NAME, NAME OF INDIVIDUAL PREPARING THE REPORT, OBSERVATIONS, DEVIATIONS FROM CONTRACT DOCUMENTS, AND CHANGES MADE IN THE FIELD DURING A PARTICULAR OBSERVATION.

THE REPORT MAY CONSIST OF ANY OR ALL OF THE FOLLOWING:
1. REPORT OF EACH DAY'S INSPECTION
2. AREA INSPECTED
3. SPECIAL RECORDS BY OTHERS I MILL TESTS, CONCRETE TESTS)
4. RECORD OF PLACING AND CURING CONCRETE
5. CHANGES MADE IN THE FIELD DURING A PARTICULAR OBSERVATION
6. MINIMUM (5) PHOTOGRAPHS PER REPORT

DAILY FIELD REPORTS SHALL BE SIGNED BY THE DULY AUTHORIZED REPRESENTATIVE AND SHALL BE SUBMITTED TO THE BUILDING OFFICIAL UNDER A SIGNED AND SEALED COVER LETTER BY THE SPECIAL INSPECTOR. IN ADDITION, THE FINAL LETTER IS TO BE SIGNED AND SEALED BY THE SPECIAL INSPECTOR.

3. REPORTING INFORMATION AND OBSERVATIONS
IT IS THE DUTY OF THE SPECIAL INSPECTOR TO NOTIFY THE CONTRACTOR, BUILDING OFFICIAL, ARCHITECT/ENGINEER OF RECORD, AND THE OWNER OF THE FOLLOWING:

- A. THE USE OF MATERIALS, EQUIPMENT OR WORKMANSHIP, WHICH DO NOT CONFORM TO THE OFFICIAL CONTRACT DOCUMENTS OR WHICH MAY CAUSE IMPROPER CONSTRUCTION.
- B. WORK WHICH IS NOT BEING DONE IN ACCORDANCE WITH THE APPROVED OFFICIAL CONTRACT DOCUMENTS.
- C. POTENTIAL RECOMMENDATIONS FOR REMOVAL OR REPAIR OF FAULTY CONSTRUCTION OR CONSTRUCTION WHICH IS PERFORMED WITHOUT INSPECTION AND NOT CAPABLE OF BEING INSPECTED OR TESTED IN PLACE. FINAL DECISIONS REGARDING REMOVAL OR REPAIRS WILL BE MADE BY OTHERS.

4. REQUIREMENTS OF THE OWNER
A. THE OWNER SHALL ARRANGE FOR ALL NECESSARY CONSTRUCTION RECORDS TO BE FURNISHED TO THE SPECIAL INSPECTOR IN A TIMELY MANNER. SUCH RECORDS SHALL CONSIST OF, BUT MAY NOT BE LIMITED TO: CONCRETE CYLINDER TEST REPORTS, SOIL DENSITY TEST RECORDS, MILL RECORDS, SHOP DRAWINGS, ETC.

B. THE OWNER SHALL INSURE THAT THE CONTRACTOR PROVIDES A SHORING AND RE-SHORING PLAN TO THE BUILDING DEPARTMENT THAT IS SIGNED AND SEALED BY AN ENGINEER REGISTERED IN THE STATE OF FLORIDA. SUCH REGISTERED ENGINEER MAY REPRESENT THE FORM SUPPLIER.

5. REQUIREMENTS OF THE CONTRACTOR
THE CONTRACTOR SHALL ADVISE THE SPECIAL INSPECTOR IN ADVANCE OF CONSTRUCTION SCHEDULES AND PLANNED OPERATIONS IN ORDER TO ASSURE TIMELY AND APPROPRIATE INSPECTIONS AND OBSERVATIONS. A MINIMUM OF 24 HOURS NOTICE SHALL BE GIVEN FOR ALL REQUESTED INSPECTIONS.

6. RESPONSIBILITY
THE SPECIAL INSPECTOR DOES NOT SURROGATE THE BUILDING OFFICIAL'S OR THE ARCHITECT/ENGINEER OF RECORD'S RESPONSIBILITIES. FURTHER, IT IS NOT INTENDED THAT THE CONTRACTOR'S CONTRACTUAL OR STATUTORY OBLIGATIONS ARE IN ANY WAY RELIEVED OR FOREGONE BY THE PRESENCE OF THE SPECIAL INSPECTOR. THE CONTRACTOR HAS THE SOLE RESPONSIBILITY, BOTH CONTRACTUALLY AND OTHERWISE, FOR ANY DEVIATIONS FROM THE OFFICIAL CONTRACT DOCUMENTS AND FOR ALL CONSTRUCTION QUALITY ASSURANCE AND QUALITY CONTROL. IT IS UNDERSTOOD THAT THE CONTRACTOR IS THE ONLY ENTITY RESPONSIBLE FOR ALL DIRECTION, SUPERVISION, MANAGEMENT AND PLANNING OF THE CONSTRUCTION PROCESS AND FOR ALL MEANS AND METHODS. THE CONTRACTOR IS THE ONLY ENTITY RESPONSIBLE FOR PROVIDING WARRANTIES AND GUARANTEES TO THE OWNER.

IT IS ALSO UNDERSTOOD THAT THE SPECIAL INSPECTOR IS CONTRACTUALLY NOT OBLIGATED TO PERFORM 100% INSPECTIONS OF ALL STRUCTURAL ITEMS NOR ARE 100% INSPECTIONS REQUIRED BY THIS INSPECTION PLAN. THE SPECIAL INSPECTOR'S ROLE IS TO SPOT CHECK THE CONSTRUCTION OF THE STRUCTURAL ELEMENTS AS INDICATED BELOW. IT SHALL BE THE RESPONSIBILITY OF THE SPECIAL INSPECTOR TO OBSERVE THE PLACEMENT OF STRUCTURAL COMPONENTS ONLY, AND TO REPORT TO THE CONCERNED PARTIES THAT THE STRUCTURE IS BEING BUILT IN GENERAL CONFORMANCE WITH THE STRUCTURAL DOCUMENTS, AND IF NOT, THE LOCATION AND DESCRIPTIONS OF THOSE VARIATIONS. AT THE COMPLETION OF THE STRUCTURAL WORK, THE SPECIAL INSPECTOR SHALL STATE THAT "TO THE BEST OF MY KNOWLEDGE AND BELIEF, THE ABOVE DESCRIBED CONSTRUCTION OF STRUCTURAL LOAD BEARING COMPONENTS GENERALLY COMPLIES WITH THE PERMITTED DOCUMENTS, AND THE SHORING AND RE-SHORING CONFORMS WITH THE SHORING AND RESHORING PLANS SUBMITTED TO THE ENFORCING AGENCY".

7. LIMITATIONS
THE FOLLOWING INSPECTION PLAN IS OUTLINED AS A MINIMUM ONLY AND MAY BE SUPPLEMENTED BY SPECIAL REQUIREMENTS AS DEEMED NECESSARY DURING THE COURSE OF THE WORK. THE CONTRACTOR'S PERFORMANCE AND CAPABILITY MAY ONLY INCREASE THE SPECIAL INSPECTOR INVOLVEMENT IN ANY PROJECT. THIS DOCUMENT WILL OUTLINE THE PLAN ONLY AS WELL AS DELINEATE SPECIFIC SUBMISSION REQUIREMENTS. THE ACTUAL DETAILS OF SPECIAL INSPECTOR CHECKLISTS WILL NOT BE ELABORATED UPON, BUT RATHER A CLEAR DEFINITION OF RESPONSIBILITIES, SCHEDULED VISITS, AND INTENT WILL BE GIVEN.

THE SPECIAL INSPECTOR IS TO PROVIDE SERVICES ONLY WITH REGARD TO THE STRUCTURAL FRAME OF THE BUILDING INCLUDING FOUNDATION, PRIMARY AND SECONDARY FRAMING SYSTEMS, CONNECTIONS ONLY OF GLASS AND CURTAIN WALL SYSTEMS TO A BUILDING STRUCTURAL COMPONENT. VARIOUS STRUCTURAL SYSTEMS DESIGNED BY SPECIALTY ENGINEERS AND ITEMS INCLUDED IN THE INSPECTION PLAN. THIS DOES NOT INCLUDE INSPECTION OF ANY SAFETY PROVISIONS AS REQUIRED BY OSHA OR OTHER SAFETY STANDARDS WHICH APPLY DURING THE CONSTRUCTION PERIOD, NOR DOES IT APPLY TO ELEMENTS SUCH AS GLASS, METAL OR WOODEN RAILINGS, FIRE PROTECTION, ROOFING, MECHANICAL/ELECTRICAL SYSTEMS, ARCHITECTURAL COMPONENTS, SITE WORK OR OTHER ELEMENTS NOT CONTRIBUTING TO THE CAPACITY OF THE STRUCTURAL BUILDING FRAME.

SINCE THE INSPECTOR DOES NOT VERIFY THAT THE OFFICIAL CONTRACT DOCUMENTS ARE IN THEMSELVES IN CONFORMANCE WITH THE CURRENT EDITION OF THE BUILDING CODE, STATEMENTS ISSUED WILL REFER TO COMPLETED CONSTRUCTION BEING IN GENERAL ACCORDANCE WITH THE OFFICIAL CONTRACT DOCUMENTS RATHER THAN THE APPROPRIATE BUILDING CODE.

STRUCTURAL INSPECTION PLAN
1. **FOLLOWING IS A DESCRIPTION OF THE STRUCTURAL SYSTEM EMPLOYED FOR THIS PROJECT:**

- 1. FOUNDATION: CAST-IN-PLACE (CIP) CONCRETE FOOTINGS, COLUMN SPREAD FOOTINGS AND THICKENED SLAB FOOTINGS
- 2. GROUND FLOOR: CIP CONCRETE SLAB ON COMPACTED FILL
- 3. STRUCTURE: REINFORCED MASONRY WALLS WITH PRECAST CONCRETE PLANK FLOORS AND PRE-ENGINEERED WOOD TRUSSES AT ROOF.
- 2. CONSTRUCTION SHALL GENERALLY CONFORM TO THE APPROVED PERMITTED DOCUMENTS AS SUBMITTED TO THE BUILDING DEPARTMENT.
- 3. STRUCTURAL DRAWINGS, THE APPLICABLE SPECIFICATIONS AND DRAWINGS SUBMITTED BY SPECIALTY ENGINEERS, INCLUDING SHORING AND RE-SHORING PLANS, SHALL GOVERN THE REQUIREMENTS OF THIS WORK.
- 4. **SUBSURFACE AND FOUNDATIONS**

A. **SOILS INVESTIGATION**
THE SPECIAL INSPECTOR SHALL OBTAIN A COPY OF THE FINAL PROJECT SOILS REPORT, SIGNED AND SEALED BY A PROFESSIONAL ENGINEER, AND MAINTAIN SAID COPY IN THE SPECIAL INSPECTOR'S FILE. SPECIAL INSPECTOR SHALL CONFIRM THAT NOTES REGARDING FOUNDATION PREPARATION AND INSTALLATION CONTAINED WITHIN SUCH SOILS REPORT AND THE CONTRACT DOCUMENTS ARE IN AGREEMENT WITH THE CONSTRUCTION.

B. **BACKFILL AND COMPACTION**
A QUALIFIED SOILS CONSULTANT SHALL BE RETAINED TO MONITOR BACKFILL AND COMPACTION OPERATIONS AND PLACEMENT OF SLAB ON GRADE SUB-BASES. THE SOILS CONSULTANT'S REPORTS SHALL BE SIGNED AND SEALED BY A PROFESSIONAL ENGINEER REGISTERED IN THE STATE OF FLORIDA REPORTS AND SHALL BE SUBMITTED TO THE SPECIAL INSPECTOR. AT THE CONCLUSION OF FOUNDATION CONSTRUCTION, A REPORT SHALL BE SUBMITTED TO THE SPECIAL INSPECTOR, SIGNED AND SEALED BY A REGISTERED PROFESSIONAL ENGINEER EMPLOYED BY THE GEOTECHNICAL ENGINEER, STATING THAT THE GEOTECHNICAL ENGINEER, OR THEIR REPRESENTATIVE, HAS WITNESSED INSTALLATION OF THE FOUNDATION PREPARATION, THAT THE REQUIRED BEARING STRATA AND COMPACTION UNDER EACH FOOTING HAD BEEN OBTAINED, AND THAT THE FOUNDATION SOILS WERE CONSTRUCTED IN ACCORDANCE WITH THE REQUIREMENTS OF THE GEOTECHNICAL REPORT, INCLUDING THE SPECIFIED DESIGN CAPACITIES.

C. **FOUNDATIONS:**
1. THE SPECIAL INSPECTOR SHALL:
a. REVIEW THE PROCEDURES AND FIELD METHODS UTILIZED BY THE FULL TIME SITE REPRESENTATIVE OF THE GEOTECHNICAL ENGINEER AND TESTING LABORATORY.
b. MAKE PERIODIC VISITS TO THE JOBSITE TO REVIEW THE INSTALLATION OF THE FOUNDATIONS, VERIFY REINFORCEMENT AND COVER IN FOOTINGS.
c. VERIFY WALL AND COLUMN DOWELS, EMBEDMENT LENGTHS, CONFIGURATION AND EXTENSIONS TO PROVIDE PROPER LAPs ABOVE.
d. VERIFY FOUNDATION DIMENSIONS.

D. **SPECIAL CONDITIONS/COMPONENTS**
1. THE SPECIAL INSPECTOR SHALL:
a. VERIFY THAT DOWELS FOR VERTICAL WALL REINFORCEMENT AND COLUMNS ARE IN PLACE AND ARE IN ACCORDANCE WITH THE STRUCTURAL DRAWINGS.
b. VERIFY THAT AN AS-BUILT SURVEY HAS BEEN PERFORMED AND SUBMITTED TO THE ENGINEER OF RECORD OF THE AS-BUILT PILING LOCATIONS.
c. VERIFY THAT THE VARIOUS PROFESSIONALS INVOLVED IN THE PERMANENT DRAINAGE SYSTEM HAVE PERFORMED THEIR INSPECTIONS PRIOR TO PLACING SOIL ABOVE THE SYSTEM.
d. VERIFY THAT THE REQUIREMENTS INDICATED ON THE CONTRACT DOCUMENTS AS TO THE STAGING OF BACKFILLING BEHIND BELOW- GRADE WALLS HAS BEEN FOLLOWED.

5. CONCRETE

A. **FORMS:**
1. THE SHORING SPECIALTY ENGINEER SHALL PROVIDE SIGNED AND SEALED SHOP DRAWINGS INDICATING THE TYPE, SIZE AND LAYOUT OF THE FORMWORK AND SHORING. THEN THE SPECIALITY ENGINEER SHALL INSPECT THE SHORING AND FORMWORK AND PROVIDE A STATEMENT THAT THE SHORING IS IN ACCORDANCE WITH THE SIGNED AND SEALED SHOP DRAWINGS. THIS REQUIREMENT APPLIES TO EACH LEVEL OF THE BUILDING. THE SPECIAL INSPECTOR SHALL RECEIVE A COPY OF THIS CERTIFICATION AND THEN WILL MAKE A CURSORY INSPECTION OF SHORING TO CONFIRM GENERAL COMPLIANCE WITH SIGNED AND SEALED SHORING DRAWINGS.

2. FORM TIES AND SPACERS SHALL BE STRONG ENOUGH NOT TO BEND IF WORKMEN CLIMB ON THEM. WIRE TIES ARE PERMITTED ONLY ON LIGHT WORK.

3. BEFORE CONCRETE IS PLACED, FORM SURFACES SHALL BE WETTED, OILED OR COATED WITH SATISFACTORY MATERIALS. IF OILING IS REQUIRED BY SPECIFICATIONS, THE OIL SHOULD BE APPLIED BEFORE REINFORCING STEEL IS PLACED TO AVOID CONTACT WITH THE REINFORCING STEEL.

4. FOREIGN MATERIAL SUCH AS CHIPS, BLOCKS, SAWDUST AND DRIED MORTAR SHALL BE REMOVED BEFORE THE PLACEMENT OF CONCRETE. AIR AND WATER SHALL BE UTILIZED FOR THIS OPERATION.

5. SLEEVES REQUIRED FOR CMU WALL REINFORCING AND/OR WALL REINFORCING DOWELS SHALL BE CHECKED FOR GENERAL CONFORMANCE

- B. **JOINTS:**
1. THE SPECIAL INSPECTOR SHALL:
a. CHECK THE LOCATION JOINTS, SUCH AS EXPANSION, CONTRACTION AND CONSTRUCTION JOINTS AS SHOWN IN CONTRACT DRAWINGS OR AS OTHERWISE APPROVED.
b. VERIFY THE PREPARATION OF JOINTS AS REQUIRED BY CONTRACT DRAWINGS AND/OR SPECIFICATIONS, SUCH AS WET SAND, BLASTING, ROUGHENING, WETTING, ETC.
c. CHECK THE LOCATION OF BULKHEADS IN STRUCTURAL MEMBERS SUCH AS BEAMS OR SLABS.
d. VERIFY THAT EXPANSION JOINTS ARE FREE FROM DEBRIS OR IRREGULARITIES WHICH WOULD INTERFERE WITH FREE MOVEMENT.
e. CHECK IF FILLER HAS BEEN PLACED AND SECURELY FASTENED IN EXPANSION JOINTS IN ACCORDANCE WITH SPECIFICATIONS AND/OR MANUFACTURER'S RECOMMENDATIONS.
f. CHECK THAT CONTRACTION JOINTS HAVE BEEN COATED WITH THE SPECIFIED APPROVED MATERIAL, NECESSARY TO BREAK BOND.

- C. **OPENINGS AND SLEEVES:**
1. THE SPECIAL INSPECTOR SHALL:
a. REPORT ALL SLAB OPENINGS LARGER THAN 12" (OR AS INDICATED ON THE STRUCTURAL DRAWINGS) AND THOSE NOT SHOWN ON STRUCTURAL DRAWINGS.
b. VERIFY PLACEMENT OF ADDITIONAL REINFORCING AROUND OPENINGS. NO SLEEVES OR OPENINGS WILL BE PERMITTED IN BEAMS WITHOUT PRIOR APPROVAL OF THE SEOR.
c. CHECK THE LOCATION OF OPENINGS.
d. IF ADDITIONAL OPENINGS WHICH ARE NOT SHOWN ON THE PLANS ARE REQUIRED, THE PROPOSED OPENINGS SHALL BE APPROVED BY THE SEOR AND, WITH THE EXCEPTION OF VERY SMALL OPENINGS, SHALL BE PROTECTED BY SHORT DIAGONAL REINFORCING STEEL BARS, AS SPECIFIED ON THE STRUCTURAL DRAWINGS.

- D. **CONCRETE PLACEMENT:**
1. THE SPECIAL INSPECTOR SHALL:
a. BE PRESENT ON THE SITE FOR CONCRETE POURS. IT IS INCUMBENT ON THE GENERAL CONTRACTOR TO PROPERLY NOTIFY THE INSPECTOR OF UPCOMING CONCRETE POURS.
b. VERIFY THAT THE CONTRACTOR IS PROVIDING THE NECESSARY CONSOLIDATION AND PLACING TECHNIQUES.
c. REVIEW ASPECTS OF TRANSPORTING, HANDLING AND PLACEMENT OF CONCRETE TO AVOID ADVERSELY AFFECTING CONCRETE MIX.
d. VERIFY THAT AREAS REQUIRING SPECIFIC WATER/CEMENT RATIOS ARE PROVIDED WITH THE PROPER CONCRETE MIX.
e. VERIFY THAT ANY CONCRETE MIX WHICH HAS WATER ADDED AT THE SITE HAS BEEN BROUGHT TO THE ATTENTION OF THE CONTRACTOR AND THAT A SET OF TEST CYLINDERS IS TAKEN FROM THE MIX AFTER WATER IS ADDED. NO WATER SHALL BE ADDED TO ANY MIX WHICH HAS A SPECIFIC WATER/CEMENT RATIO REQUIREMENT UNLESS APPROVED BY THE SEOR.
f. VERIFY THAT THE CONCRETE TESTING LAB IS PRESENT ON THE SITE.
g. VERIFY THAT NO CONCRETE IS PLACED WHICH HAS AGED PAST THE LIMITATIONS OF THE CONTRACT DOCUMENTS.
h. REPORT THE ADDITION OF WATER TO THE CONCRETE MIX IN THE TRUCK. THE ADDITION OF WATER BEYOND THE LIMITS GIVEN ON THE APPROVED MIX DESIGN IS NOT PERMITTED.
i. DOCUMENT SPECIFICALLY WHERE ANY CONCRETE IS PLACED THAT DOES NOT MEET THESE REQUIREMENTS.
j. RECORD REJECTED BATCHES CAREFULLY, WITH REASONS FOR REJECTION, AND REPORT IT PROMPTLY TO THE SEOR.
k. PERIODICALLY CHECK TRANSIT MIX DELIVERY SLIPS TO CONFIRM CORRECT MIX AND TO DETERMINE ELAPSED TIME BETWEEN BATCHING AND DEPOSITING OF CONCRETE.
l. VERIFY THAT SLUMP IS MEASURED AT THE PLACE OF DEPOSIT FOR EACH BATCH, EMPHASIZE SLUMP MEASUREMENTS WHEN MIX CONSISTENCY IS IN DOUBT.
m. VERIFY THAT CONCRETE TESTING TECHNICIAN TAKES CONCRETE TEST CYLINDERS IN ACCORDANCE WITH CONTRACT SPECIFICATIONS AND REVIEW RESULTS OF STRENGTH TESTS FOR COMPLIANCE WITH REQUIREMENTS OF DRAWINGS.
n. CONFIRM THAT THE CONTRACTOR USES MECHANICAL VIBRATORS TO CONSOLIDATE THE FRESH CONCRETE AND PAY PARTICULAR ATTENTION TO CONSOLIDATION BEHIND EMBEDDED ANCHORAGES, TENDON BEARING PLATES, AND IN BEAM-COLUMN JOINTS.
o. CHECK THAT CURING METHODS HAVE BEEN EXECUTED IN ACCORDANCE WITH THE CONTRACT DOCUMENTS.
p. VISUALLY CHECK THE UNIFORMITY OF FRESHLY MIXED CONCRETE.
q. CHECK FOR HONEYCOMBING AND ROCK POCKETS IN CAST CONCRETE AFTER THE REMOVAL OF FORMS. DURING REPAIRS, VERIFY THAT ADEQUATE MATERIAL HAS BEEN CUT BACK TO EXPOSE SOLID MATERIAL AND THAT ALL LOOSE MATERIAL HAS BEEN REMOVED. LARGE REPAIR AREAS SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER.
r. CHECK THE REQUIREMENTS FOR THE TREATMENT OF AREAS CONTAINING DEFECTIVE CONCRETE.

- E. **REINFORCEMENT - (MILD STEEL):**
1. THE SPECIAL INSPECTOR SHALL:
a. SPOT CHECK THAT REINFORCEMENT IS IN PLACE IN GENERAL ACCORDANCE WITH THE STRUCTURAL DRAWINGS. IN THE EVENT OF ANY CONFLICT BETWEEN THE CONTRACT DOCUMENTS AND SUPPLIER'S SHOP DRAWINGS, NOTIFY THE SEOR IMMEDIATELY.
b. PRIOR TO THE PLACEMENT OF CONCRETE, SPOT CHECK THE FOLLOWING ITEMS:
1. REINFORCEMENT PLACEMENT FOR SIZE, BENDING, GRADE, LENGTHS OF SPLICES, AND BAR TO BAR SPACING.
2. REINFORCEMENT HAS BEEN CLEANED OF LOOSE, FLAKY, RUST AND SCALE, GREASE OR OTHER FOREIGN MATERIALS WHICH WOULD REDUCE OR PREVENT BOND.
3. REINFORCEMENT IS GENERALLY TIED AND SUPPORTED SECURELY SO THAT DISPLACEMENT WILL NOT OCCUR DURING CONCRETE PLACEMENT.
4. CONCRETE COVER OF REINFORCEMENT IN PLACE PER THE PROJECT DRAWINGS AND SPECIFICATIONS.
5. LOCATION AND LENGTH OF SPLICES OF REINFORCEMENT SHALL BE CHECKED AND SPLICES SHALL NOT BE MADE WITHOUT THE APPROVAL OF THE SEOR.

- F. **EMBEDDED FIXTURES:**
1. UNLESS OTHERWISE PROVIDED OR APPROVED, ANCHOR BOLTS, INSERTS, PIPE SLEEVES, PIPES, CONDUITS, WIRING, FLASHINGS, INSTRUMENTS, AND OTHER EMBEDDED FIXTURES AND MECHANICAL EQUIPMENT SHALL BE FIXED FIRMLY IN CORRECT POSITION BEFORE CONCRETE IS PLACED.
2. IF EMBEDDED ITEMS ARE IN CONFLICT WITH EACH OTHER OR WITH REINFORCING STEEL BARS, THE RELOCATION OF THESE ITEMS AND/OR CUTTING, BENDING, DISPLACEMENT OR OMISSION OF STEEL REINFORCING BARS SHALL NOT BE ALLOWED EXCEPT AS APPROVED BY THE ENGINEER.

6. STRUCTURAL STEEL

- A. THE SPECIAL INSPECTOR SHALL:
a. REVIEW THE APPROVED SHOP DRAWINGS.
b. VERIFY STEEL SIZES AND GRADES AND STEEL GIRDER DESIGNATIONS WITH CONTRACT DRAWINGS.
c. VERIFY THAT STEEL MEMBERS ARE CORRECTLY LOCATED.
d. AT BOLTED CONNECTIONS, VERIFY TYPE OF BOLT, SIZE, WASHER, AND METHOD OF TIGHTENING. CONFIRM THAT BOLT TIGHTENING HAS BEEN COMPLETED IN ACCORDANCE WITH THE CONTRACT DOCUMENTS AND STEEL SHOP DRAWINGS.
e. VERIFY THAT WELDED CONNECTIONS ARE PERFORMED BY CERTIFIED WELDERS. DETERMINE AND RECORD THE TYPE OF WELDING ELECTRODES. CONFIRM THAT WELDS ARE BEING PERFORMED WELDS IN POSITIONS THAT THEY HAVE BEEN CERTIFIED TO PERFORM.
f. REVIEW DOCUMENTATION FROM THE INDEPENDENT STEEL TESTING LAB VERIFYING THE FOLLOWING, IF APPROPRIATE:
• TESTING IS COMPLETED PER PROJECT CONTRACT DOCUMENTS AND VERIFIED IN THE FIELD
• INSPECTION OF HIGH STRENGTH BOLTING
• INSPECTION OF WELDING
• TESTING OF STUD CONNECTIONS TO BEAMS, ANGLES AND PLATES.
g. ALL DISCREPANCIES SHALL BE RECORDED AND REPORTED TO THE SEOR.

7. NON-SHRINK GROUT UNDER STEEL BASE PLATES

- A. THE SPECIAL INSPECTOR SHALL PERFORM THE FOLLOWING:
a. COMPRESSIVE STRENGTH TESTS PER ASTM C109.
b. NUMBER OF TESTS: ONE TEST FOR EACH TEN BAGS OF GROUT USED OR MINIMUM OF ONE TEST FOR EACH DAY OF GROUTING.
c. CUBE SIZE: 2 INCH X 2 INCH
d. TEST SCHEDULE: ONE CUBE AT 3 DAYS, TWO CUBES AT 7 DAYS, 3 CUBES AT 28 DAYS.

1. SPECIALTY ENGINEERED ITEMS

- A. THE SPECIAL INSPECTOR SHALL:
a. VERIFY THAT WORK IS BASED ON SIGNED, SEALED AND APPROVED DRAWINGS.
b. VERIFY THAT WORK IS IN ACCORDANCE WITH BOTH THE SPECIFIC REQUIREMENTS OF THE SHOP DRAWINGS PREPARED BY THE SPECIALITY ENGINEER AND THE SCHEMATIC REQUIREMENTS OF THE CONTRACT DOCUMENTS. NOTIFY THE SEOR IMMEDIATELY OF ANY DISCREPANCIES.
c. RETENOR ADVERSELY AFFECTING CONCRETE MIX SHALL BE INSPECTED AS TO STRUCTURAL FASTENING REQUIREMENTS ONLY.

2. OTHER MISCELLANEOUS INSPECTION

- A. THE SPECIAL INSPECTOR SHALL:
a. INSPECT FOR HOLES DRILLED IN SLABS, WALLS, COLUMNS OR ANY OTHER STRUCTURAL COMPONENT WITHOUT PRIOR APPROVAL.
b. CHECK FOR EXPOSED REINFORCING STEEL BARS AT THE FACE OF REINFORCED CONCRETE MEMBERS.
c. MAINTAIN A CORRECTION LIST INDICATING THE AREAS WHERE DISCREPANCIES WERE NOTED AND THE STATUS OF REPAIRS.
d. PROVIDE A COPY OF THE DAILY INSPECTION REPORT TO THE ARCHITECT/ENGINEER, OWNER, GENERAL CONTRACTOR AND OTHERS AS REQUESTED BY THE WINNER.
e. VISUALLY INSPECT CONCRETE SURFACES FOR CRACKS AND NOTIFY THE SEOR OF STRUCTURAL CRACKS OTHER THAN SHRINKAGE CRACKS.

3. SUBMISSIONS

- A. GENERAL: VARIOUS SUBMISSIONS TO THE SPECIAL INSPECTOR WILL BE REQUIRED AS LISTED BELOW. SUBMISSIONS SHALL BE REVIEWED BY THE CONTRACTOR AND THE ARCHITECT/ENGINEER OF RECORD PRIOR TO TRANSMITTAL TO THE SPECIAL INSPECTOR. SUBMIT A COPY FOR THE SPECIAL INSPECTOR'S USE AND RECORD. NOT ALL ITEMS LISTED BELOW WILL BE APPLICABLE FOR ALL PROJECTS. RECEIPT OF SUBMISSIONS BY THE SPECIAL INSPECTOR DOES NOT RELIEVE THE CONTRACTOR OR SUBCONTRACTORS OF THEIR OBLIGATIONS FOR PERFORMANCE.
B. CONCRETE MIX DESIGN: CONCRETE MIX DESIGNS FOR PROPOSED STRENGTHS AND QUALITIES SHALL BE FURNISHED TO THE SPECIAL INSPECTOR. THESE DESIGNS SHALL BE PREPARED IN ACCORDANCE WITH ACI RECOMMENDATIONS AND REQUIREMENTS OF THE CONTRACT DOCUMENTS AND SUPPORTED BY ACTUAL TEST DATA.
C. REINFORCING STEEL SHOP DRAWINGS AND BAR LISTS WILL BE FURNISHED TO THE SPECIAL INSPECTOR PRIOR TO THE PLACEMENT OF CONCRETE. THESE DRAWINGS SHALL BE PREPARED IN ACCORDANCE WITH ACI AND CRSI RECOMMENDATIONS AND SHALL CLEARLY SHOW BAR SIZES, DIMENSIONS, BENDS AND GRADES. MILL REPORTS FOR REINFORCING STEEL SHALL BE INCORPORATED INTO THE WORK AND SHALL BE FURNISHED TO THE SPECIAL INSPECTOR.

- D. COLD FORMED STEEL SHOP DRAWINGS (IF COLD FORM STEEL MEMBERS ARE UTILIZED FOR EXTERIOR STRUCTURAL MEMBERS): SIGNED AND SEALED SHOP DRAWINGS FROM DELEGATED SPECIALTY ENGINEER SHALL BE FURNISHED TO SPECIAL INSPECTOR.
E. MISCELLANEOUS METALS: SHOP DRAWINGS FOR STRUCTURAL METALS, SUCH AS EMBEDDED ANCHORS, CONNECTION PLATES, HANGERS, ETC., SHALL BE FURNISHED TO THE SPECIAL INSPECTOR PRIOR TO INSTALLATION. THIS WILL INCLUDE STRUCTURAL ITEMS ONLY AS INTERPRETED FROM THE STRUCTURAL DOCUMENTS.

- F. STRUCTURAL STEEL SHOP AND ERECTION DRAWINGS FOR STRUCTURAL STEEL COMPONENTS SHALL BE FURNISHED TO THE SPECIAL INSPECTOR SHOWING MEMBER SIZES, CONFIGURATIONS AND DIMENSIONS, CONNECTION DETAILS, AND MATERIAL GRADES. MILL REPORTS FOR STEEL TO BE INCORPORATED INTO THE WORK WILL BE FURNISHED.
G. MASONRY UNITS: THE SPECIAL INSPECTOR SHALL BE PROVIDED WITH SPECIFICATIONS FOR MASONRY UNITS TO BE USED THAT CLEARLY SHOW APPLICABLE DATA INCLUDING UNIT GRADES.

- H. MORTAR DESIGN MIXES: THE SPECIAL INSPECTOR SHALL BE SUPPLIED WITH DESIGN MIXES FOR SPECIFIED TYPES OF MORTAR TO BE USED IN THE PROJECT. THESE DESIGN MIXES ARE TO BE SUPPORTED WITH PERTINENT TEST DATA.
I. MANUFACTURED WOOD: SHOP DRAWINGS FOR PRE-ENGINEERED TRUSSES AND STRUCTURAL WOOD COMPONENTS SHALL BE FURNISHED TO THE SPECIAL INSPECTOR SHOWING ALL MEMBER SIZES, CONFIGURATIONS, DIMENSIONS, CONNECTIONS AND BRACING AS REQUIRED. THESE DRAWINGS SHALL BE SIGNED AND SEALED BY A REGISTERED FLORIDA P.E.

- J. FORMWORK: FORMWORK DRAWINGS SHALL BE PROVIDED FOR SLAB AND BEAM COMPONENTS TO BE USED ON THE PROJECT. FORMWORK DRAWINGS WILL INDICATE LOADS FOR WHICH THE SYSTEM HAS BEEN DESIGNED AND SHALL BE SIGNED AND SEALED BY A REGISTERED FLORIDA P.E.
K. SHORING & RE-SHORING: SHORING AND RE-SHORING INSTALLATION SHALL BE EXECUTED IN ACCORDANCE WITH DRAWINGS AS FURNISHED TO THE SPECIAL INSPECTOR. THESE DRAWINGS SHALL BE SIGNED AND SEALED BY A REGISTERED FLORIDA P.E. AND PREVIOUSLY INSPECTED BY A FLORIDA P.E.

- L. DESIGN DOCUMENTS: PRIOR TO THE COMMENCEMENT OF WORK, THE SPECIAL INSPECTOR SHALL BE SUPPLIED WITH A COMPLETE SET OF APPROVED DESIGN DOCUMENTS FOR THE PROJECT INCLUDING DRAWINGS AND SPECIFICATIONS. THESE DRAWINGS WILL BE SIGNED AND SEALED BY THE SEOR RESPONSIBLE FOR THEIR PREPARATION.
M. ALTERNATES: SUBMISSIONS FOR ALTERNATES AS PROVIDED BY THE CONTRACTOR OR DESIGN PROFESSIONALS SHOWING DOCUMENTATION REGARDING ACCEPTANCE, DENIAL, OR PROPOSED ALTERNATIVES SHALL BE PROVIDED TO THE SPECIAL INSPECTOR AS THEY BECOME AVAILABLE.

END OF STRUCTURAL INSPECTION PLAN.

CODE REVIEW:

CERTIFICATE:

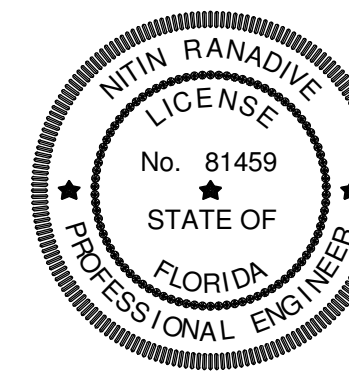


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VERO BEACH, FL 32960
PHONE: 772-794-2929

SIGNATURE:
MICHAEL DORADO
STEVEN G. SEGL
JOHN W. BOST

AB001005
AB0004
AB0104

SEAL:



This item has been electronically signed and sealed by Nitin Ranadive, PE on the date adjacent to the seal.

Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

CONSULTANTS:

TRC
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Certificate of Authorization No. 35626

TO THE BEST OF MY KNOWLEDGE AND ABILITY, THE COMPLETED STRUCTURE DEPICTED ON THESE PLANS COMPLIES WITH THE APPLICABLE MINIMUM BUILDING CODES.
FILE NO: 24FTL018

PERMIT SET 2-13-2025

PROJECT:

**ST. LUCIE WEST GROVE
K-8 SCHOOL**

10701 SW SUNDANCE VISTA BLVD
PORT ST. LUCIE, FL 34987

FOR

**ST. LUCIE SCHOOL
DISTRICT**

9461 BRANDYWINE LANE, PORT ST.
LUCIE, FL 34986

FOR CODE REVIEW:

REVISIONS:

#	REVISION NAME	DATE
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FOR BID:

DRAWING TITLE:

**STRUCTURAL
INSPECTION PLAN**

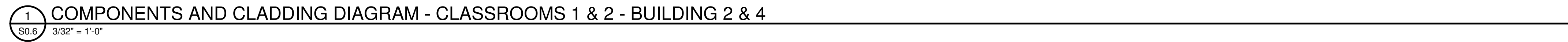
COMMISSION NUMBER:

24FTL018

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DRAWING NUMBER:

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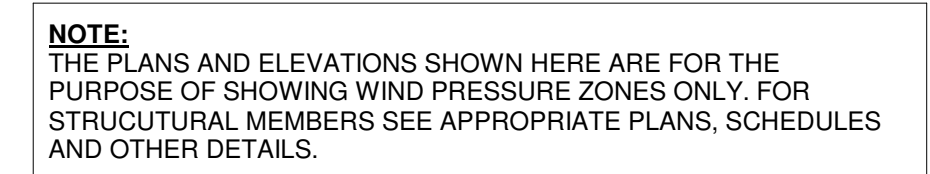
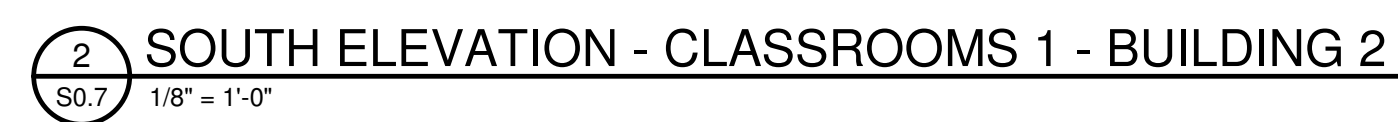
NOTES:

1. "Ae" INDICATES EFFECTIVE AREA AS DEFINED BY SECTION 26.2 OF ASCE 7.
2. PRESSURE VALUES IN ABOVE TABLE ARE BASED ON THE PARAMETERS LISTED AT THE TOP OF THE TABLE.
3. PRESSURE VALUES IN THE ABOVE TABLE ARE FOR ENCLOSED BUILDING CONDITION WITH INTERNAL PRESSURE COEFFICIENT OF +0.18.
4. GLAZED OPENINGS SHALL BE PROTECTED IN ACCORDANCE WITH SECTION 26.10.3 OF ASCE 7.
5. POSITIVE OR NEGATIVE DESIGN PRESSURES SHALL NOT BE TAKEN LESS THAN 16PSF (ULTIMATE VALUE) OR 10PSF (NOMINAL VALUE).
6. POSITIVE WIND PRESSURES ACT TOWARD THE SURFACE, AND NEGATIVE PRESSURES ACT AWAY FROM THE SURFACE.
7. PRESSURES IN TABLE ARE ALLOWABLE PRESSURES. NO FURTHER REDUCTIONS PERMITTED.

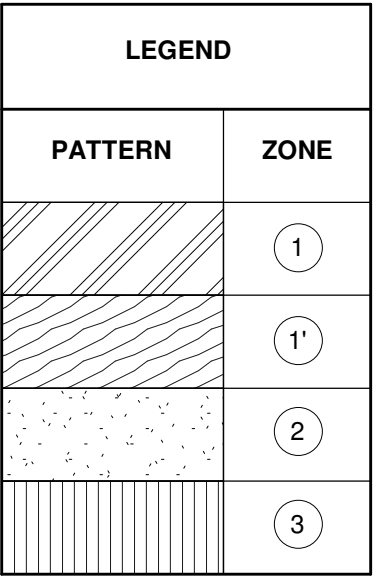
NOTE:
THE PLANS AND ELEVATIONS SHOWN HERE ARE FOR THE
PURPOSE OF SHOWING WIND PRESSURE ZONES ONLY. FOR
STRUCTURAL MEMBERS SEE APPROPRIATE PLANS, SCHEDULES
AND OTHER DETAILS.



S0.6



S0.7



1 COMP
S0.8 3/32" = 1'-0"

NOTES:

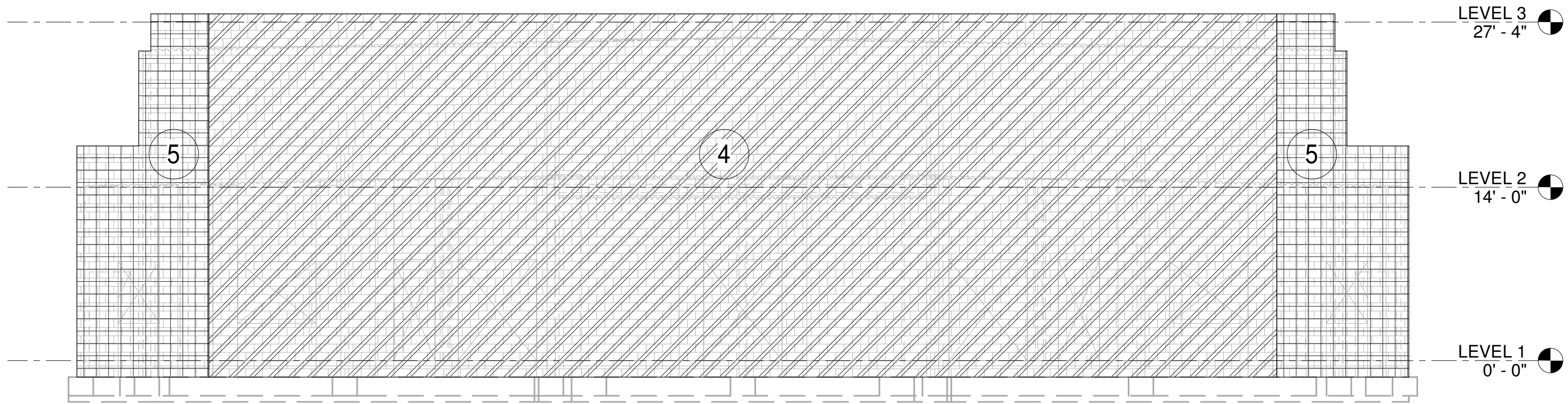
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3. PRESSURE VALUES IN THE ABOVE TABLE ARE FOR ENCLOSED BUILDING CONDITION WITH INTERNAL PRESSURE COEFFICIENT OF +/-0.18.
4. GLASS OPENINGS SHALL BE PROTECTED IN ACCORDANCE WITH SECTION 16.3 OF ASCE 7.
5. POSITIVE OR NEGATIVE DESIGN PRESSURES SHALL NOT BE TAKEN LESS THAN 16PSF (ULTIMATE VALUE) OR 10PSF (NOMINAL VALUE).
6. POSITIVE WIND PRESSURES ACT TOWARD THE SURFACE, AND NEGATIVE PRESSURES ACT AWAY FROM THE SURFACE.
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The KEYPLAN shows the layout of six buildings. BLDG 3 is at the top left, hatched with diagonal lines. BLDG 2 is below it. BLDG 1 is to the left of BLDG 4. BLDG 4 is in the center. BLDG 5 is to the right of BLDG 4. BLDG 6 is to the right of BLDG 5. A north arrow is located at the bottom center, pointing upwards.

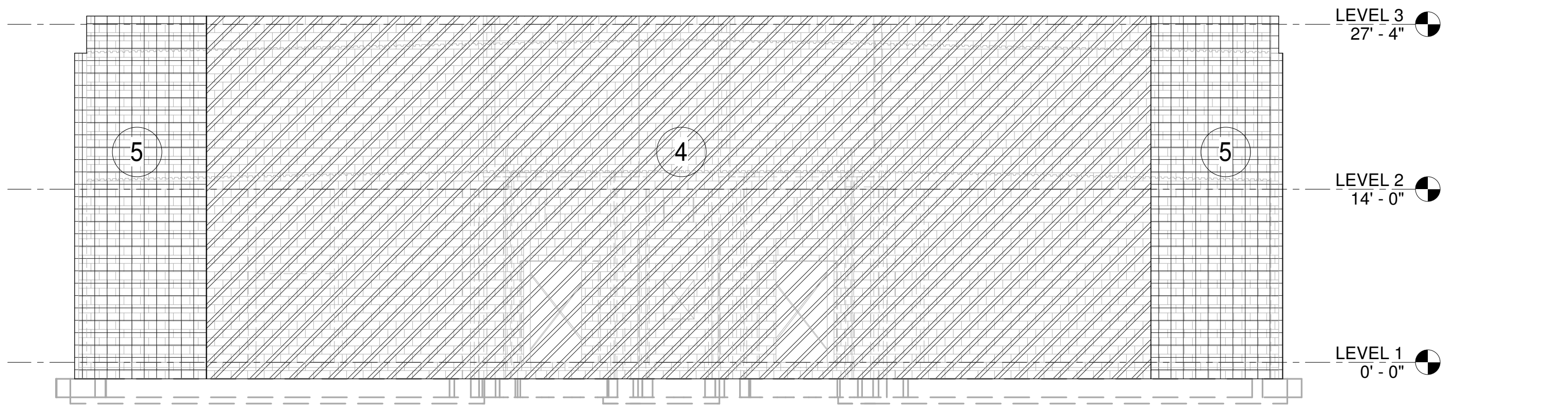
S0.8

THIS DRAWING IS FORMATTED TO BE PRINTED AT 30"x42"

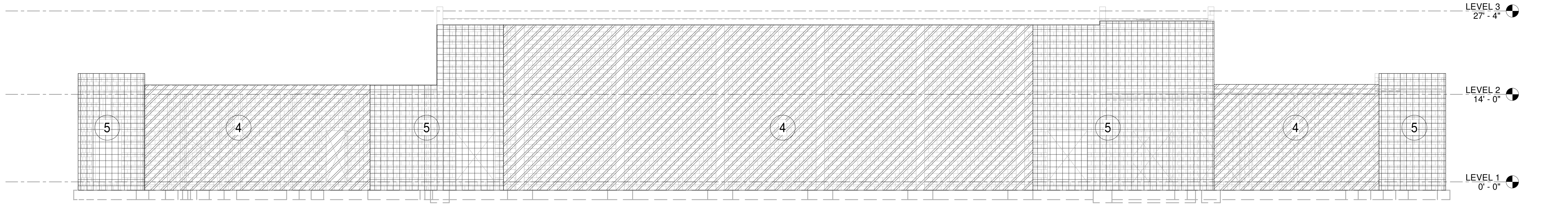
3'0"=1'-0"
1 1/2'0"=1'-0"
1'0"=1'-0"
3/4'0"=1'-0"
1/2'0"=1'-0"
3/8'0"=1'-0"
1/4'0"=1'-0"
1/8'0"=1'-0"
1/16'0"=1'-0"



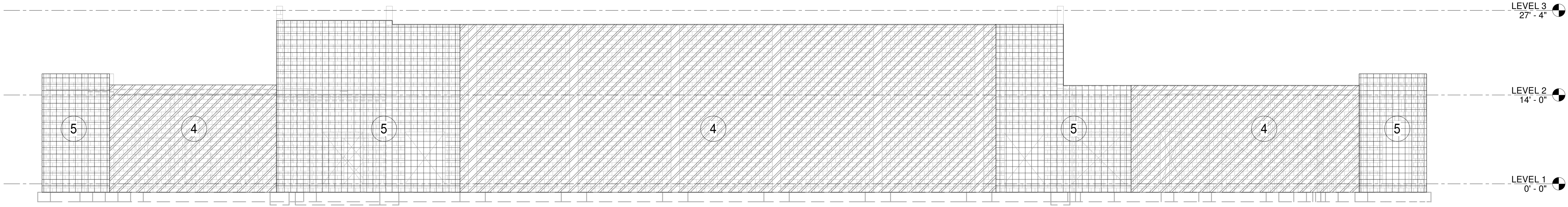
1 NORTH ELEVATION - GYM - BUILDING 3
S0.9 1/8" = 1'-0"



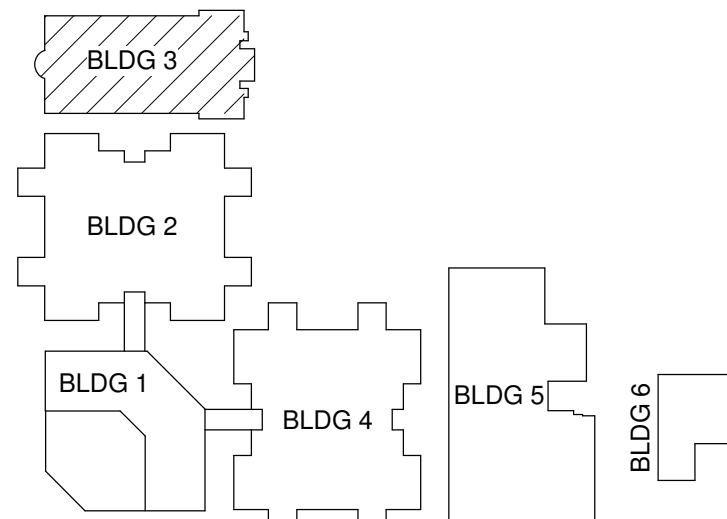
2 SOUTH ELEVATION - GYM - BUILDING 3
S0.9 1/8" = 1'-0"



3 EAST ELEVATION - GYM - BUILDING 3
S0.9 1/8" = 1'-0"



4 WEST ELEVATION - GYM - BUILDING 3
S0.9 1/8" = 1'-0"



NOTE:
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CODE REVIEW:

CERTIFICATE:

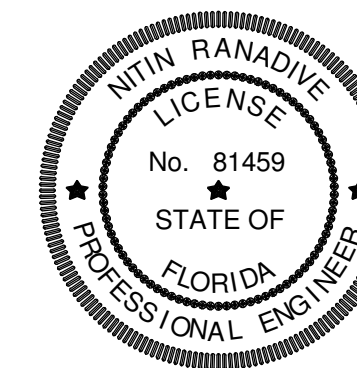


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PHONE: 772-794-2829

SIGNATURE:
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STEVEN G. SEGEL
JOHN T. BRIDGES

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AR01541

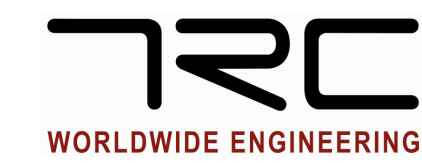
SEAL:



This item has been
electronically signed and
sealed by Nitin Ranadive, PE
on the date adjacent to the
seal.

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signed and sealed and the
signature must be verified on
any electronic copies.

CONSULTANTS:



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FOR CODE REVIEW:

REVISIONS:

#	REVISION NAME	DATE
4	ADDENDUM 4	01.27.2025

FOR BID:

DRAWING TITLE:

COMPONENTS AND
CLADDING DIAGRAM -
GYM - BUILDING 3

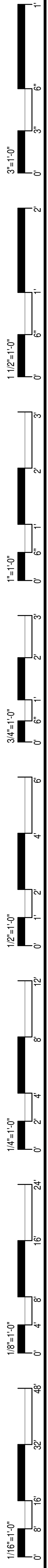
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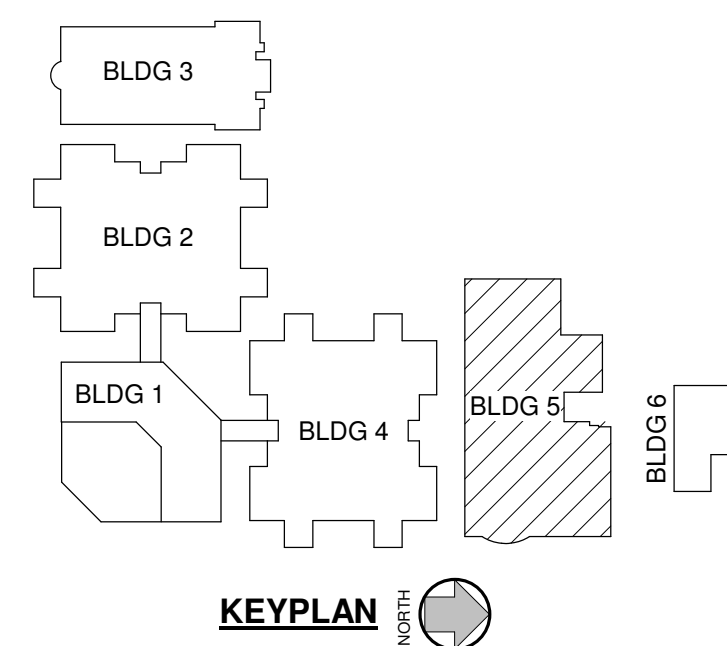
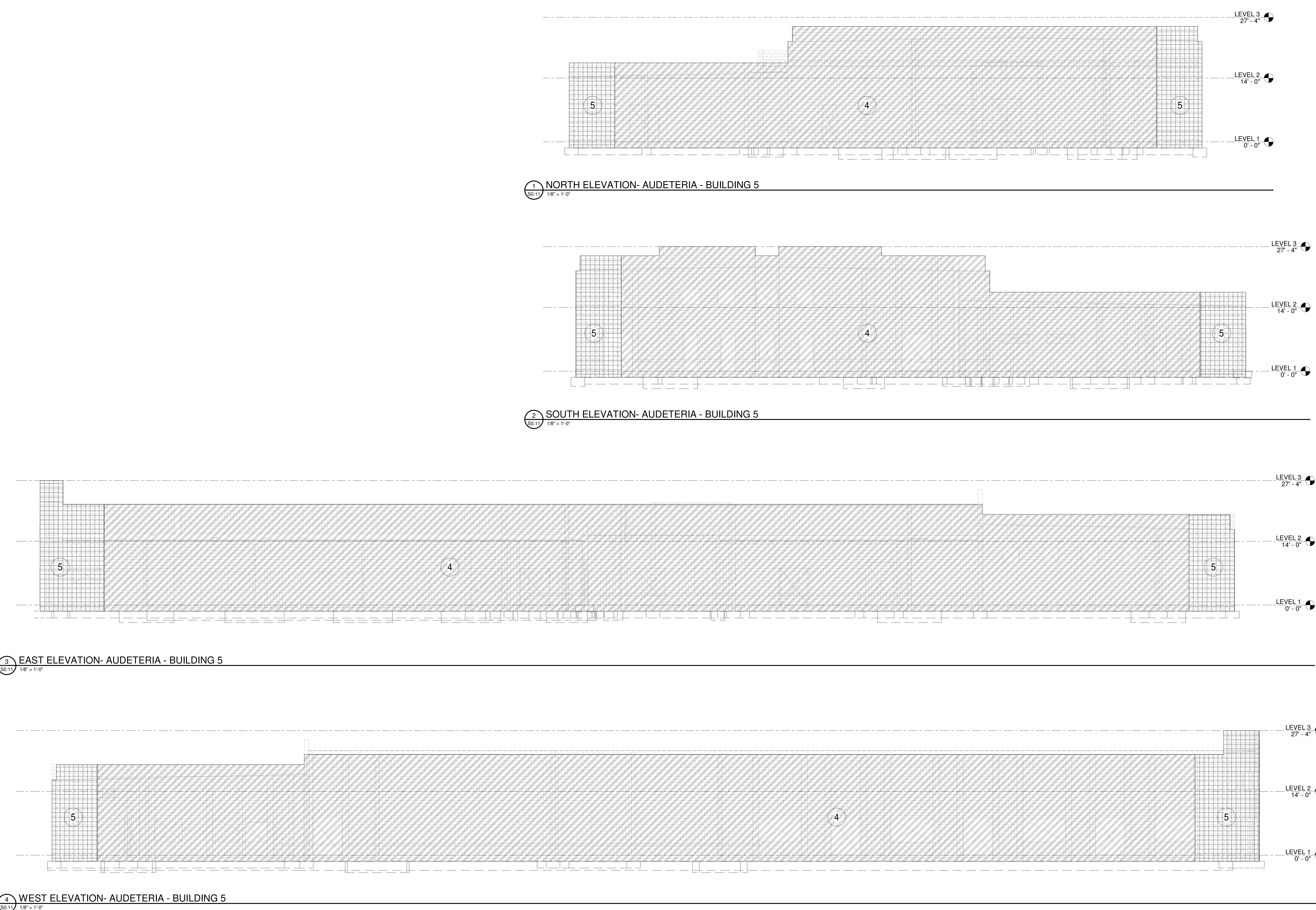


1 COMP
S0.10 3/32" = 1'-0"

NOTES:

1. "Ae" INDICATES EFFECTIVE AREA AS DEFINED BY SECTION 26.2 OF ASCE 7.
2. PRESSURE VALUES IN ABOVE TABLE ARE BASED ON THE PARAMETERS LISTED AT THE TOP OF THE TABLE.
3. PRESSURES VALUES IN THE ABOVE TABLE ARE FOR PARTIALLY ENCLOSED BUILDING CONDITION WITH INTERNAL PRESSURE COEFFICIENT OF +/-0.55
4. OPENINGS SHALL BE DESIGNED IN ACCORDANCE WITH SECTION 26.10.3 OF ASCE 7.
5. POSITIVE OR NEGATIVE DESIGN PRESSURES SHALL NOT BE TAKEN LESS THAN 10PSF (ULTIMATE VALUE) OR 10PSF (NOMINAL VALUE).
6. POSITIVE WIND PRESSURES ACT TOWARD THE SURFACE, AND NEGATIVE PRESSURES ACT AWAY FROM THE SURFACE.
7. PRESSURES IN TABLE ARE ALLOWABLE PRESSURES. NO FURTHER REDUCTIONS PERMITTED.

The KEYPLAN NORTH diagram illustrates the spatial arrangement of the six buildings. BLDG 1 is a large, irregular polygon on the left. BLDG 2 is a large, irregular polygon above BLDG 1. BLDG 3 is a large, irregular polygon above BLDG 2. BLDG 4 is a large, irregular polygon to the right of BLDG 1 and BLDG 2. BLDG 5 is a large, irregular polygon to the right of BLDG 4. BLDG 6 is a large, irregular polygon to the right of BLDG 5. A north arrow is located at the bottom center of the diagram, pointing upwards.



NOTE:
THE PLANS AND ELEVATIONS SHOWN HERE ARE FOR THE
PURPOSE OF SHOWING WIND PRESSURE ZONES ONLY. FOR
STRUCTURAL MEMBERS SEE APPROPRIATE PLANS, SCHEDULES
AND OTHER DETAILS.

CODE REVIEW:

CERTIFICATE:

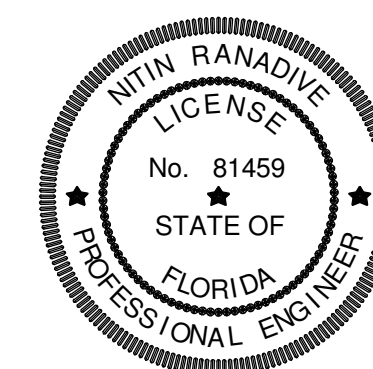


SPIEGLER ARCHITECTURAL GROUP INC.
2001 9TH AVENUE
SUITE 308
VERO BEACH, FL 32960
PHONE: 772-794-2929

SIGNATURE:
ANTHONY DONADI
STEVEN G. SIEGEL
JOHN F. WRIGHT

AR0012456
AR22648
AR731341

SEAL:



This item has been electronically signed and sealed by Nitin Ranadive, PE on the date adjacent to the seal.

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CONSULTANTS:



WORLDWIDE ENGINEERING
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PHONE: (954) 484-7777
FAX: (954) 484-7834

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Certificate of Authorization No. 35826

TO THE BEST OF MY KNOWLEDGE AND
ABILITY, THE COMPLETED STRUCTURE
DEPICTED ON THESE PLANS
COMPLIES WITH THE APPLICABLE
MINIMUM BUILDING CODES.

PERMIT SET 2-13-2025

PROJECT:

ST. LUCIE WEST GROVE
K-8 SCHOOL

10701 SW SUNDANCE VISTA BLVD
PORT ST. LUCIE, FL 34987

FOR

ST. LUCIE SCHOOL
DISTRICT

9461 BRANDYWINE LANE, PORT ST.
LUCIE, FL 34986

FOR CODE REVIEW:

REVISIONS:

	REVISION NAME	DATE
--	---------------	------

FOR BID:

DRAWING TITLE:

COMPONENTS AND
CLADDING DIAGRAM -
AUDETERIA - BUILDING 5

COMMISSION NUMBER

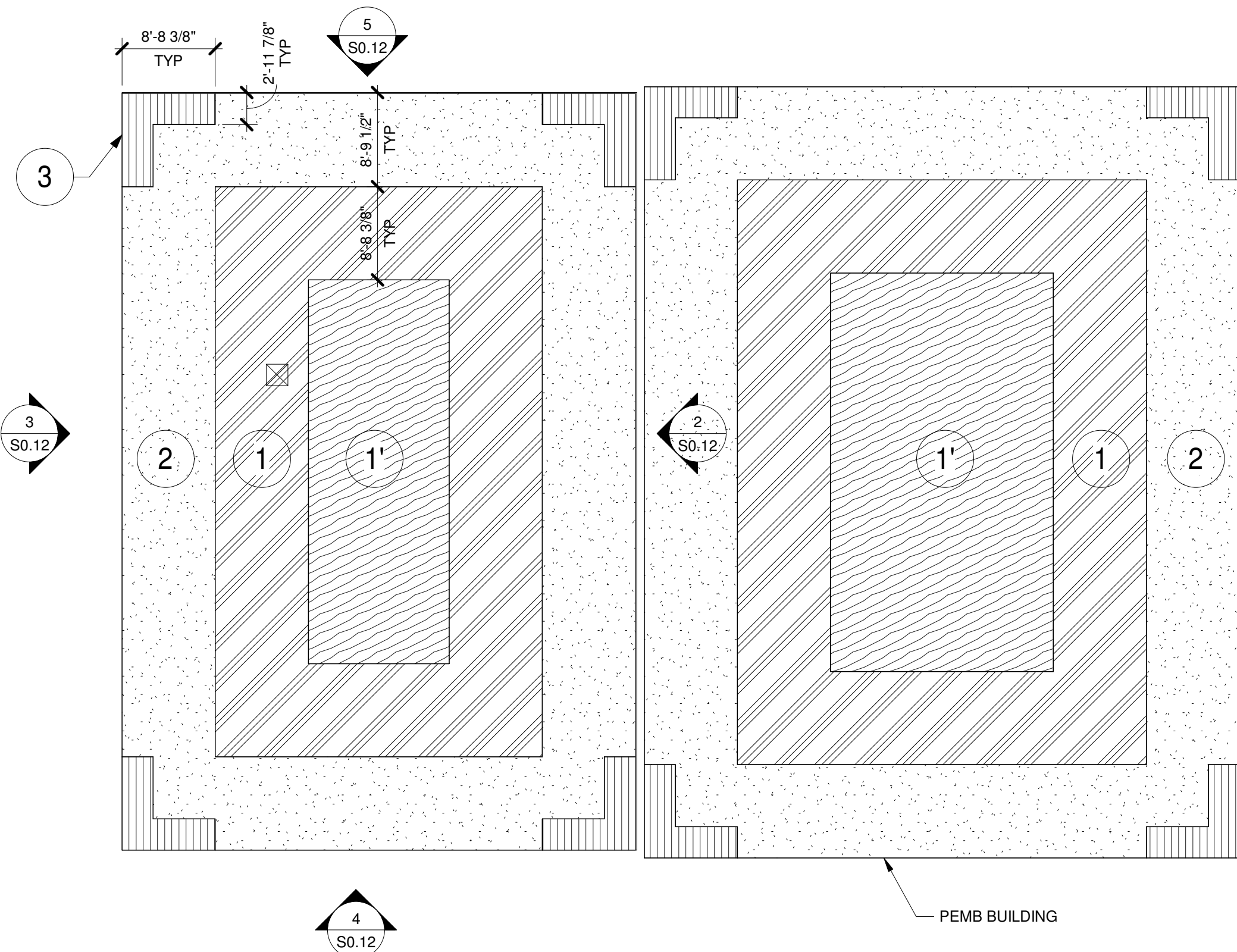
24FTL018

DO NOT SCALE THE DRAWINGS

DRAWING NUMBER:

S0.11

LEGEND	
PATTERN	ZONE
	1
	1'
	2
	3

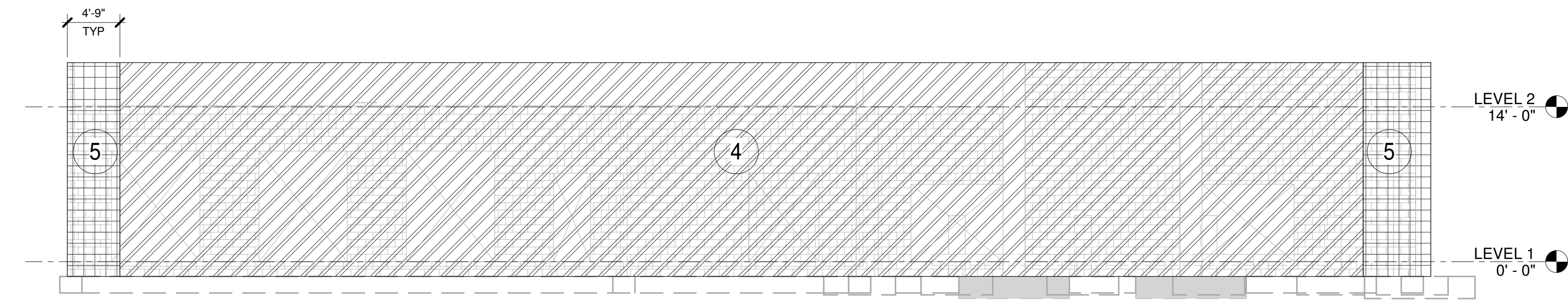


1 COMPONENTS AND CLADDING DIAGRAM - CHILLER - BUILDING 6
3/32" = 1'-0"

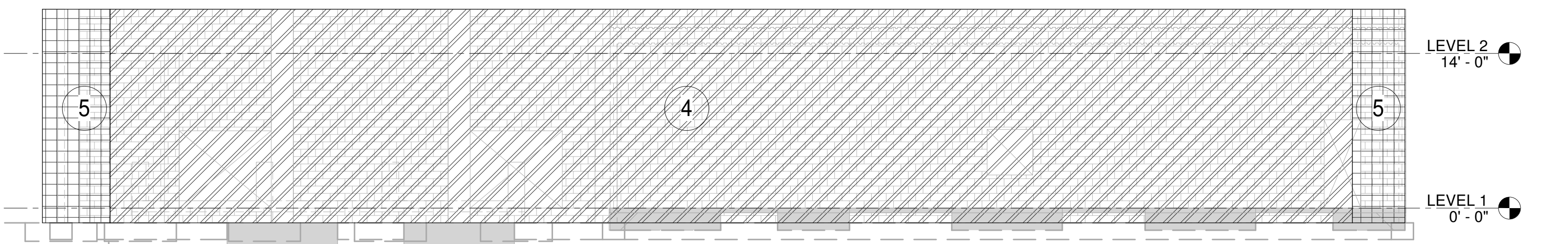
COMPONENT & CLADDING <u>NOMINAL</u> WIND PRESSURES (ASD) - CHILLER (PER ASCE 7-22)																	
ULTIMATE WIND SPEED, V _{ult}		166 mph		RISK CATEGORY:			III		EDGE DISTANCE, a (ft)			4.9					
NOMINAL WIND SPEED, V _{asd}		129 mph		EXPOSURE CATEGORY:			C		ROOF SLOPE (DEGREES)			0.25/12					
					DIRECTIONALITY FACTOR, K _d =			0.85		MEAN ROOF HT, h (FT)			14.5				
COMPONENT LOCATION				POSITIVE PRESSURES (psf)							NEGATIVE PRESSURES (psf)						
EFFECTIVE AREA, A _e (ft²)				10	20	50	100	200	500	10	20	50	100	200	500		
ROOFS	ZONE 1			14.7	13.8	12.6	11.6	11.6	11.6	-57.6	-53.8	-48.8	-45.0	-41.2	-36.1		
	ZONE 1'			14.7	13.8	12.6	11.6	11.6	11.6	-33.1	-33.1	-33.1	-33.1	-28.5	-22.4		
	ZONE 2			14.7	13.8	12.6	11.6	11.6	11.6	-75.9	-71.1	-64.6	-59.7	-54.8	-48.4		
	ZONE 3			14.7	13.8	12.6	11.6	11.6	11.6	-103.5	-93.7	-80.8	-71.1	-61.3	-48.4		
	OVERHANG ZONE 1			14.7	13.8	12.6	11.6	11.6	11.6	-52.1	-51.1	-49.9	-49.0	-41.1	-30.6		
	OVERHANG ZONE 1'			14.7	13.8	12.6	11.6	11.6	11.6	-52.1	-51.1	-49.9	-49.0	-41.1	-30.6		
	OVERHANG ZONE 2			14.7	13.8	12.6	11.6	11.6	11.6	-70.4	-63.9	-55.3	-48.8	-42.3	-33.7		
	OVERHANG ZONE 3			14.7	13.8	12.6	11.6	11.6	11.6	-98.0	-86.6	-71.5	-60.1	-48.7	-33.7		
WALLS	ZONE 4			33.1	31.6	29.7	28.2	26.7	24.8	-35.8	-34.4	-32.4	-31.0	-29.5	-27.6		
	ZONE 5			33.1	31.6	29.7	28.2	26.7	24.8	-44.1	-41.2	-37.3	-34.4	-31.4	-27.6		
		CASE A							CASE B								
PARAPETS	INTERIOR ZONE			101.7	95.1	88.4	79.8	73.2	64.5	-60.1	-57.0	-53.0	-50.0	-46.9	-42.9		
	CORNER ZONE			130.3	118.7	103.2	91.6	79.9	64.5	-68.7	-64.1	-58.1	-53.5	-48.9	-42.9		

NOTES:

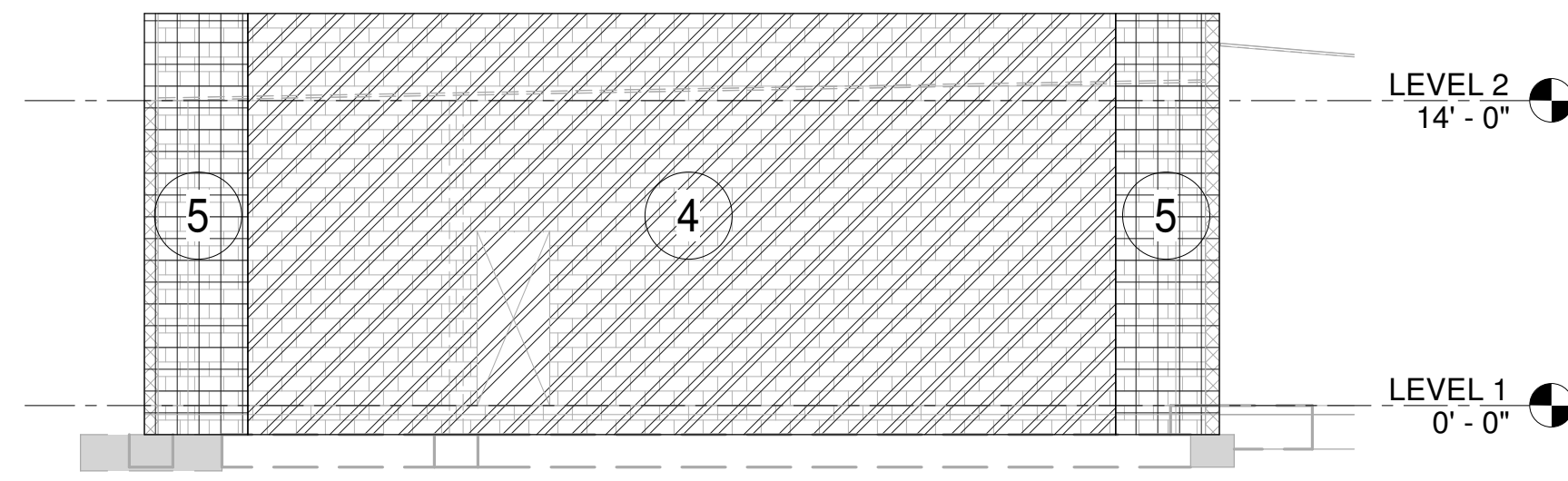
1. "Ae" INDICATES EFFECTIVE AREA AS DEFINED BY SECTION 26.2 OF ASCE 7.
2. PRESSURE VALUES IN ABOVE TABLE ARE BASED ON THE PARAMETERS LISTED AT THE TOP OF THE TABLE.
3. PRESSURES VALUES IN THE ABOVE TABLE ARE FOR ENCLOSED BUILDING CONDITION WITH INTERNAL PRESSURE COEFFICIENT OF +/-0.18
4. GLAZED OPENINGS SHALL BE PROTECTED IN ACCORDANCE WITH SECTION 26.10.3 OF ASCE 7.
5. POSITIVE OR NEGATIVE DESIGN PRESSURES SHALL NOT BE TAKEN LESS THAN 16PSF (ULTIMATE VALUE) OR 10PSF (NOMINAL VALUE).
6. POSITIVE WIND PRESSURES ACT TOWARD THE SURFACE, AND NEGATIVE PRESSURES ACT AWAY FROM THE SURFACE.
7. PRESSURES IN TABLE ARE ALLOWABLE PRESSURES. NO FURTHER REDUCTIONS PERMITTED.



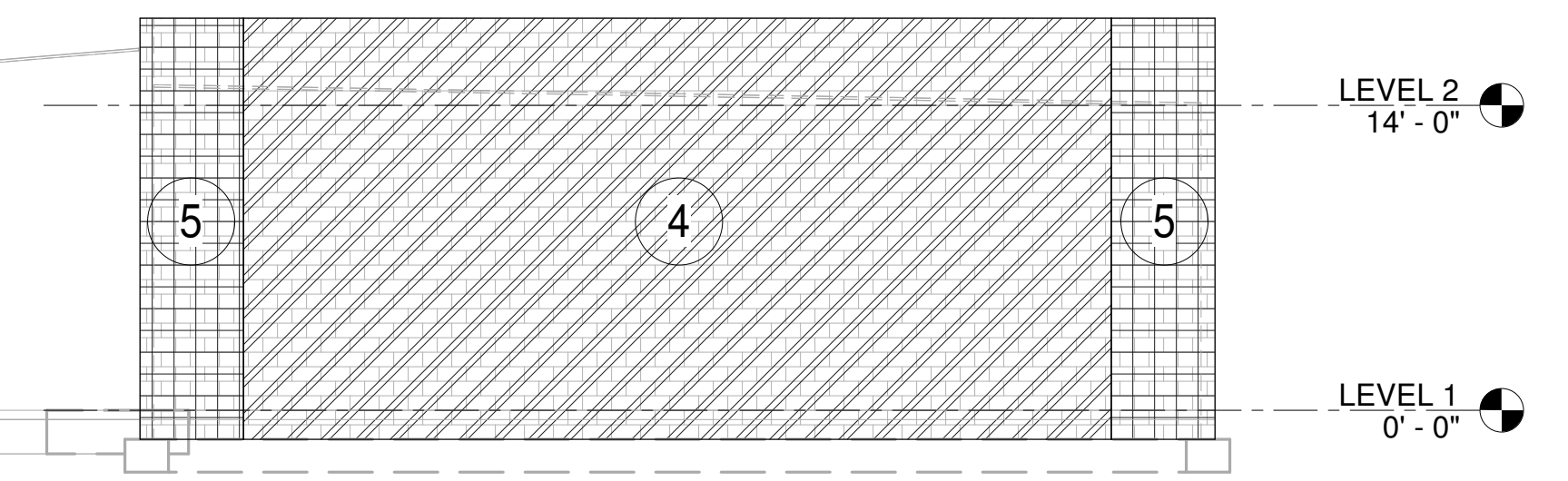
3 SOUTH ELEVATION- CHILLER - BUILDING 6
1/8" = 1'-0"



2 NORTH ELEVATION- CHILLER - BUILDING 6
1/8" = 1'-0"

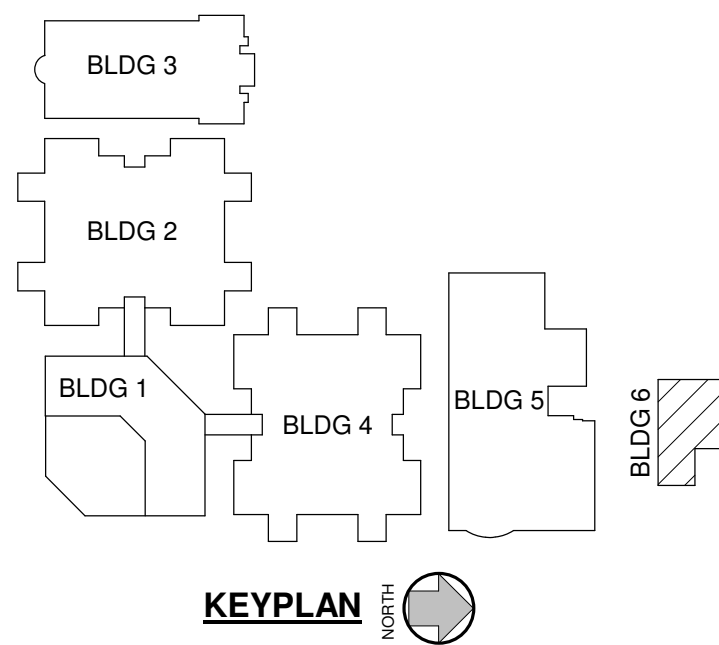


4 EAST ELEVATION- CHILLER - BUILDING 6
1/8" = 1'-0"



5 WEST ELEVATION- CHILLER - BUILDING 6
1/8" = 1'-0"

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CODE REVIEW:

CERTIFICATE:

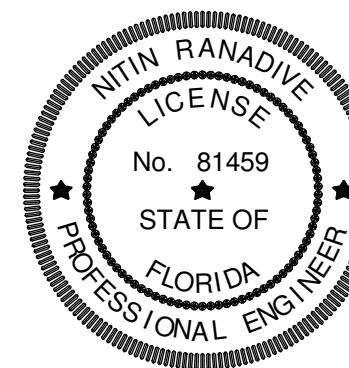


SPIEZLE ARCHITECTURAL GROUP INC.
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STEVEN G. RESEL
JOHN T. WRIGHT

AR0010405
AR00548
AR01541

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FILE NO. 24FTL018

PERMIT SET 2-13-2025

PROJECT:

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K-8 SCHOOL

10701 SW SUNDANCE VISTA BLVD
PORT ST. LUCIE, FL 34987

FOR

ST. LUCIE SCHOOL
DISTRICT

9461 BRANDYWINE LANE, PORT ST.
LUCIE, FL 34986

FOR CODE REVIEW:

REVISIONS:

#	REVISION NAME	DATE
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FOR BID:

DRAWING TITLE:

COMPONENTS AND
CLADDING DIAGRAM -
CHILLER - BUILDING 6

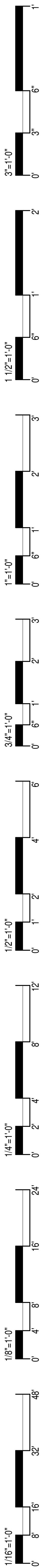
COMMISSION NUMBER:

24FTL018

DO NOT SCALE THE DRAWINGS

DRAWING NUMBER:

S0.12



2 ROOF
S0.13 $1/16" = 1'-0"$



NOTE: SUPERIMPOSED DEAD LOADS LISTED ABOVE INCLUDE 5 PSF ALLOWANCE FOR SPRINKLER PIPES WHICH IS A SUFFICIENT ALLOWANCE FOR SPRINKLER PIPES.

* INCLUDES A NON-REDUCIBLE 15 PSF PARTITION LOAD.

The KEYPLAN NORTH diagram shows the layout of six buildings. BLDG 1 is a rectangular building with diagonal hatching. BLDG 2 is a rectangular building above BLDG 1. BLDG 3 is a rectangular building above BLDG 2. BLDG 4 is a rectangular building to the right of BLDG 1. BLDG 5 is a rectangular building to the right of BLDG 4. BLDG 6 is a rectangular building to the right of BLDG 5. A north arrow is located at the bottom center of the diagram.

CERTIFICATE:



ANTHONY DONADIO
STEVEN G. SIEGEL
JOHN F. WRIGHT

AF0012456
AR22548
AR101341

The seal is circular with a double-lined border. The outer ring contains the text "NITIN RANADIVE" at the top and "PROFESSIONAL ENGINEER" at the bottom, separated by two stars. The inner circle contains the text "LICENSE" at the top, "No. 81459" in the center, and "STATE OF FLORIDA" at the bottom, also separated by two stars.

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10701 SW SUNDANCE VISTA BLVD
PORT ST. LUCIE, FL 34987

FOR

9461 BRANDYWINE LANE, PORT ST.
LUCIE, FL 34986

FOR CODE REVIEW:

REVISIONS:

	REVISION NAME	DATE
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FOR BID:

DRAWING TITLE:

COMMISSION NUMBER

24FTL018

DO NOT SCALE THE DRAWINGS

DRAWING NUMBER:

S0.13

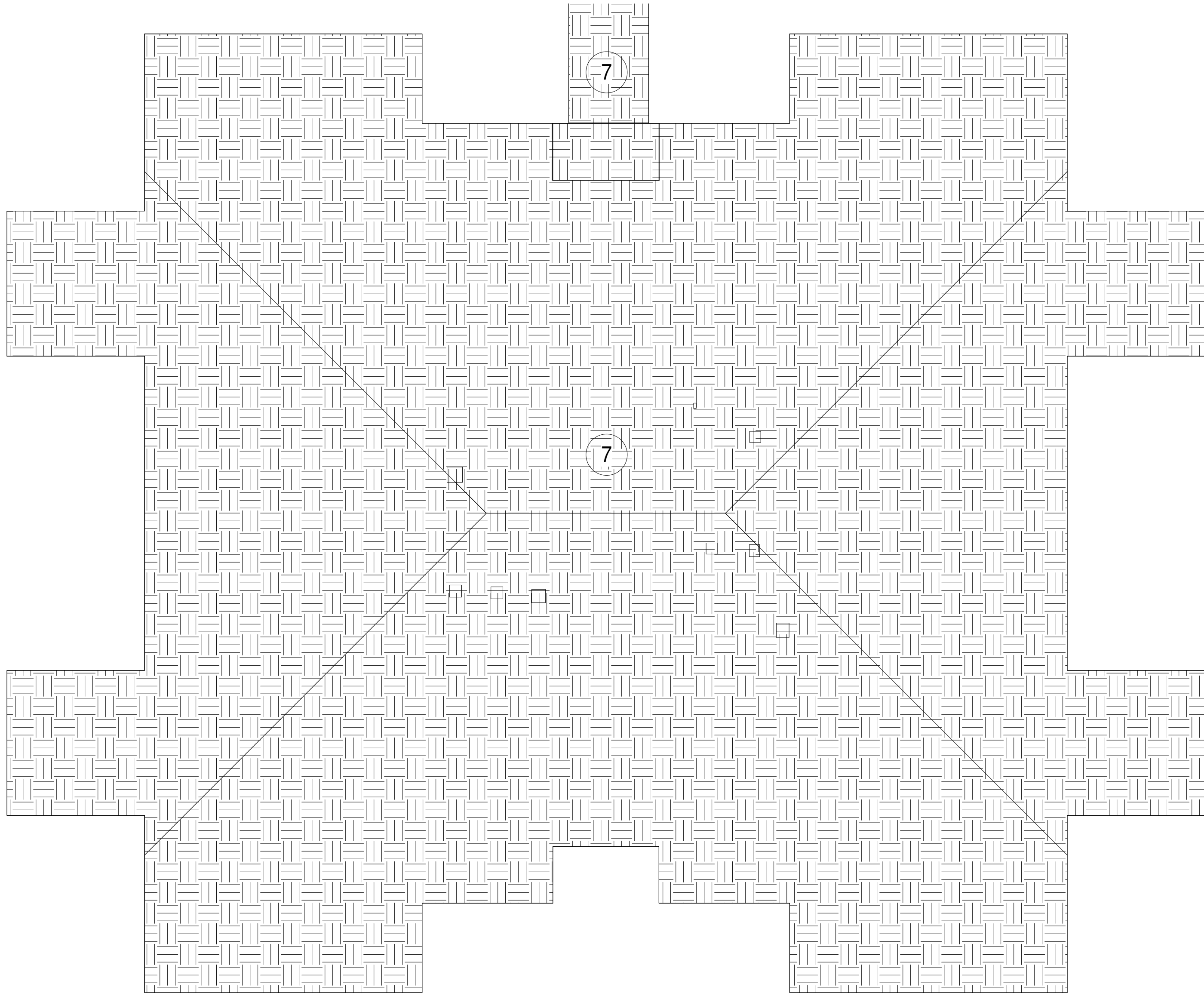


NOTE: SUPERIMPOSED DEAD LOADS LISTED ABOVE INCLUDE 5 PSF ALLOWANCE FOR SPRINKLER PIPES WHICH IS A SUFFICIENT ALLOWANCE FOR SPRINKLER PIPES.

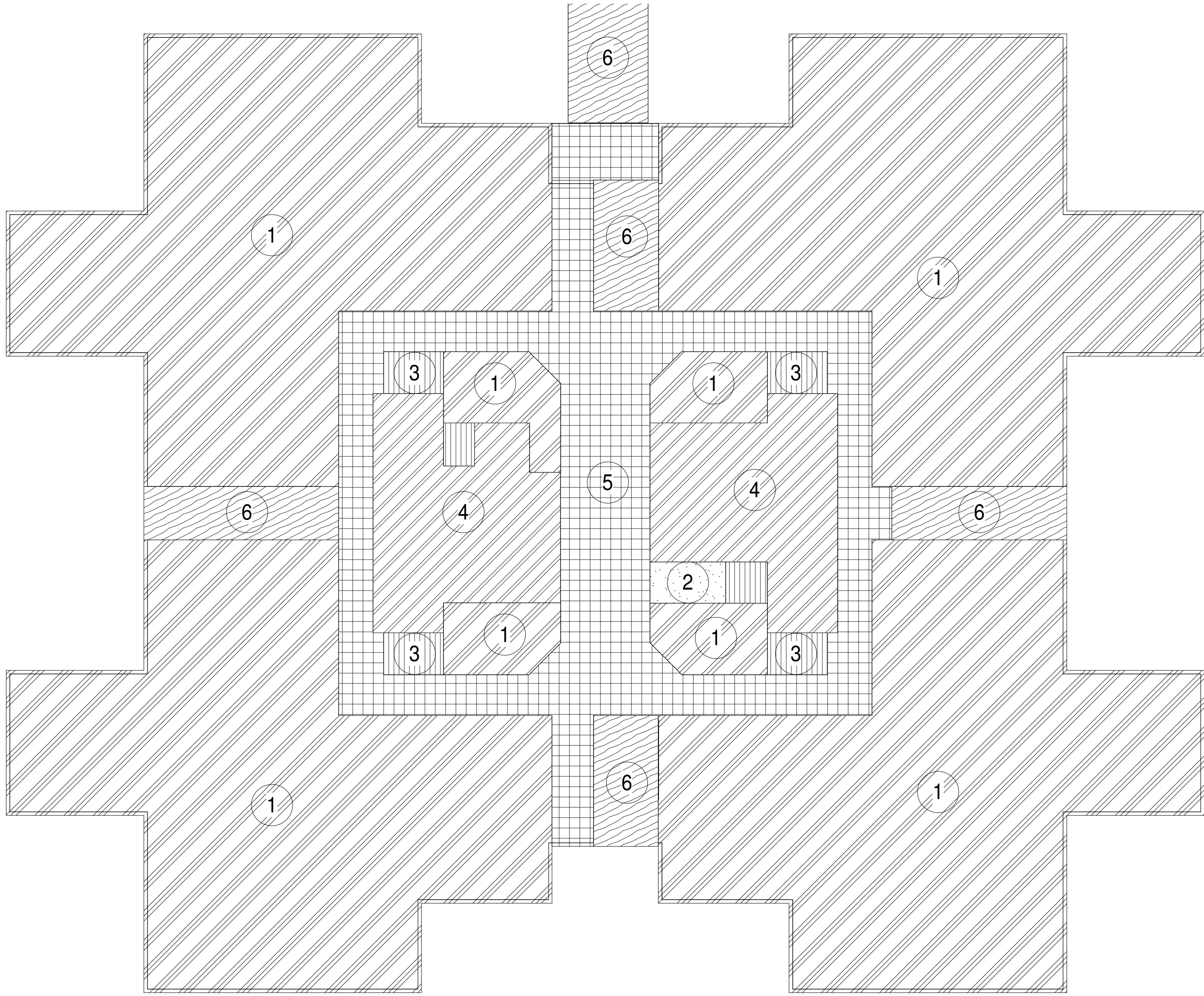
* INCLUDES A NON-REDUCIBLE 15 PSF PARTITION LOAD



1"=1'-0"
1 1/2"=1'-0"
1"=1'-0"
3/4"=1'-0"
1/2"=1'-0"
3/8"=1'-0"
1/4"=1'-0"
1/8"=1'-0"
1/16"=1'-0"



2
S0.15
1/16" = 1'-0"

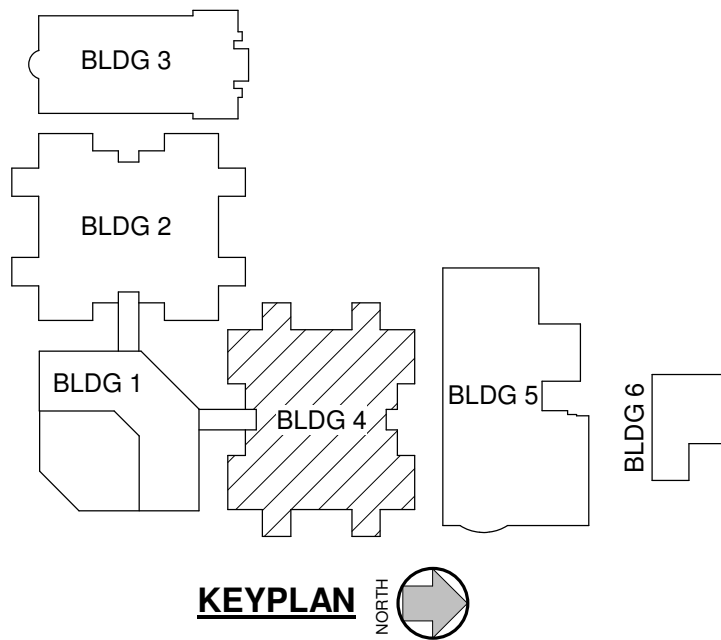


1
S0.15
1/16" = 1'-0"

LOADING PLAN LEGENDS					
PATTERN	ZONE	TYPE	LIVE LOAD	SUPER IMPOSED DEAD LOAD	REMARKS
	1	CLASSROOMS	40 PSF	30 PSF	
	2	OFFICE	50 PSF	30 PSF	
	3	RESTROOMS	60 PSF	30 PSF	
	4	STORAGE, MECHANICAL, ELECTRICAL ROOM	125 PSF	30 PSF	
	5	CORRIDOR	80 PSF	30 PSF	
	6	STAIRWAY, LABORATORIES	100 PSF	30 PSF	
	7	ROOF	30 PSF	20 PSF	
	8	ROOF	50 PSF	20 PSF	

NOTE: SUPERIMPOSED DEAD LOADS LISTED ABOVE INCLUDE 5 PSF ALLOWANCE FOR SPRINKLER PIPES WHICH IS A SUFFICIENT ALLOWANCE FOR SPRINKLER PIPES.

* INCLUDES A NON-REDUCIBLE 15 PSF PARTITION LOAD.



CODE REVIEW:

CERTIFICATE:

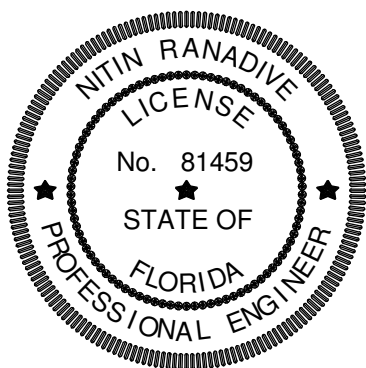


SPIEZLE ARCHITECTURAL GROUP INC.
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PHONE: 772-794-2929

SIGNATURE:
ANTHONY DONADIO
STEVEN G. SEGL
JOHN T. BRIDGES

AR0010405
AR00044
AR01041

SEAL:



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TO THE BEST OF MY KNOWLEDGE AND ABILITY, THE COMPLETED STRUCTURE DEPICTED ON THESE PLANS COMPLIES WITH THE APPLICABLE MINIMUM BUILDING CODES.
FILE NO. 24FTL018

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PROJECT:

ST. LUCIE WEST GROVE
K-8 SCHOOL

10701 SW SUNDANCE VISTA BLVD
PORT ST. LUCIE, FL 34987

FOR

ST. LUCIE SCHOOL
DISTRICT

9461 BRANDYWINE LANE, PORT ST.
LUCIE, FL 34986

FOR CODE REVIEW:

REVISIONS:

REV.	REVISION NAME	DATE
------	---------------	------

FOR BID:

DRAWING TITLE:

GRAVITY LOADING PLAN-
CLASSROOMS 2 -
BUILDING 4

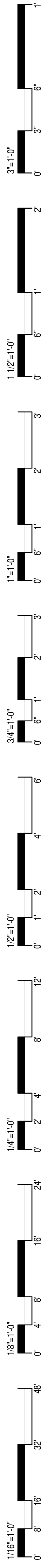
COMMISSION NUMBER:

24FTL018

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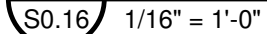
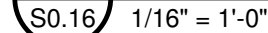
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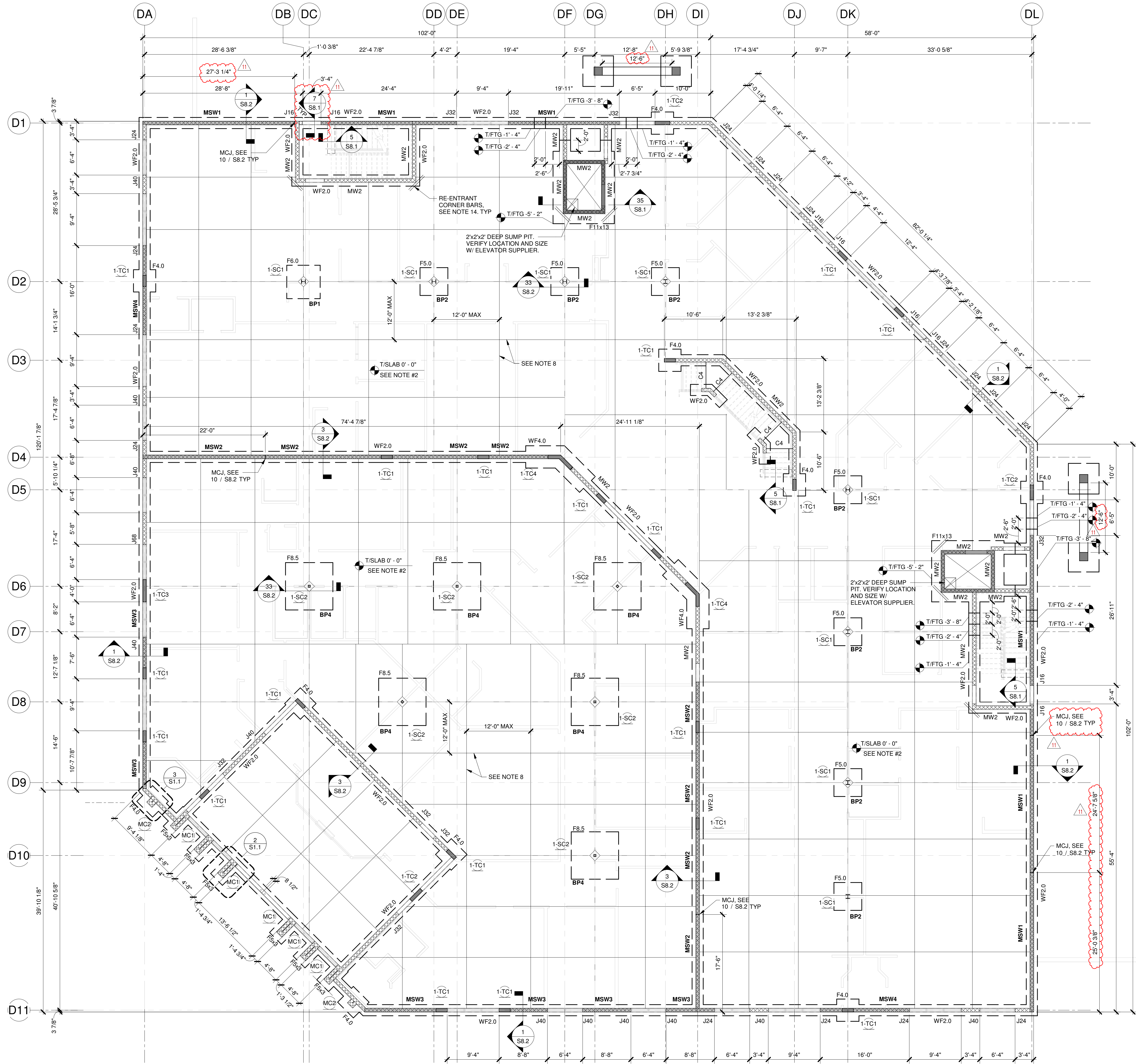


(S0.16) $1/16'' = 1'-0''$

* INCLUDES A NON-REDUCIBLE 15 PSF PARTITION LOAD.

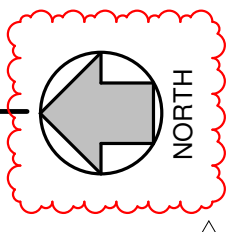


S0.16



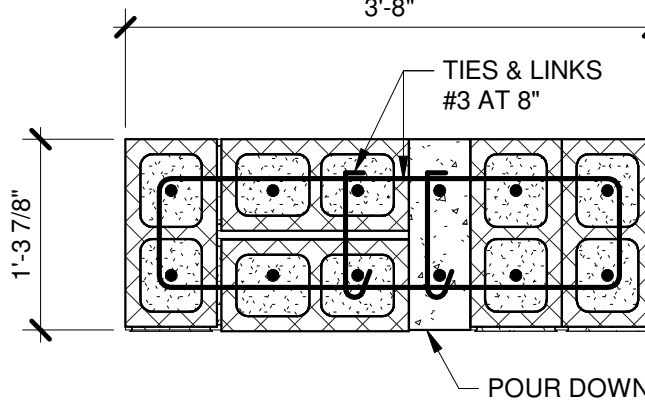
1 FOUNDATION/FIRST FLOOR FRAMING PLAN- ADMINISTRATION - BUILDING 1

1/8" = 1'-0"



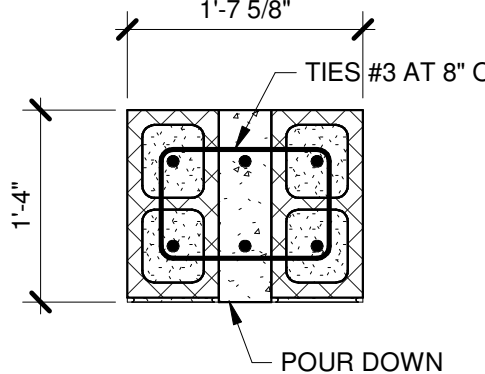
FOUNDATION & GROUND FLOOR PLAN NOTES (ADMIN BLDG):

1. T/FIRST FLOOR SLAB - REFERENCE ELEVATION 0'-0" U.N.O.
2. PROVIDE 5" THICK CONCRETE SLAB ON GRADE REINF W/ 6#6 W/ 4#W1.4 WWP IN SHEETS (NOT ROLLS) CHAIRED TO TOP OF SLAB. SEE DETAIL 6 / S8.1. PLACE CONCRETE ON VAPOR BARRIER PER ARCH. REQUIREMENTS BUT NOT LESS THAN 15 M.L.S. PREPARE SUBGRADE IN ACCORDANCE WITH GEOTECHNICAL REPORT.
3. SEE MEP DRAWINGS FOR SLAB-ON-GRADE PENETRATIONS.
4. TOP OF ALL FOOTINGS SHALL BE -1'-4" U.N.O.
5. CONTINUOUS WALL FOOTINGS SHALL EXTEND FULL LENGTH OF THE FOOTING WIDTH BEYOND END WALLS. U.N.O
6. STEP TOP OF CONTINUOUS WALL FOOTINGS AS NECESSARY FOR PIPES OR CONDUIT. SEE 19 / S8.1
7. FOR TYPICAL CMU WALL DETAILS SEE SCHEDULE ON THIS SHEET FOR DETAILS
8. PROVIDE CONTROL JOINTS PER SECTIONS 2 / S8.1 AND STRUCTURAL NOTES. CONSTRUCTION JOINTS MAY BE PLACED IN LIEU OF C/J AT CONTRACTOR'S DISCRETION, REFER AND SEE 3 / S8.1.
9. FOR DETAILS OF FOOTINGS AT CORNERS AND INTERSECTIONS SEE 17 / S8.1.
10. VERIFY ALL DIMENSIONS AND ELEVATIONS WITH ARCHITECTURAL DRAWINGS PRIOR TO CONSTRUCTION OR FABRICATION. SEE ARCHITECTURAL DRAWINGS FOR ADDITIONAL INFORMATION.
11. CENTERLINES OF COLUMNS AND BEAMS SHALL COINCIDE WITH THE FOUNDATION CENTERLINES. U.N.O.
12. CONCRETE SLAB-ON-GRADE SHALL BE FORMED ON COMPACTED SOILS. REFER TO GEOTECH REPORT FOR SUBGRADE PREPARATION.
13. FOR CONCRETE STRENGTHS REFER TO STRUCTURAL NOTES.
14. RE-ENTRANT CORNER BARS (TYP), SEE DETAIL 13 / S8.1
15. SEE SHEET S7.1 FOR STRUCTURAL SCHEDULES
16. SEE FOOTING SCHEDULE FOR ISOLATED FOOTINGS AND WALL FOOTING SIZE & REINFORCEMENT ON S7.1 SHEET.
17. SEE ARCH DRAWINGS FOR SLOPE AND FLOOR DRAINS IN SOG
18. REFER 9 / S8.3 FOR TYP. LINTEL SCHEDULE
19. SEE STRUCUTRAL NOTES AND GEOTECH REPORT FOR BEARING PRESSURE AND VIBRO REPLACEMENT STONE COLUMN FOUNDATION.



2 MC1 DETAIL

3/4" = 1'-0"



3 MC2 DETAIL

3/4" = 1'-0"

LEGEND:

- | | |
|--------|--|
| TE-# | DENOTES THICKENED SLAB EDGE, SEE 33 / S8.1 |
| TB# | DENOTES CONCRETE TIE BEAM TYPE, SEE SCHEDULE ON S7.1 SHEET |
| J# | MASONRY JAMB, REFER SCHEDULE ON S7.1 |
| BP# | DENOTES BASE PLATE TYPE, SEE SCHEDULE ON 2 / S7.1 SHEET |
| MC# | DENOTES MASONRY COLUMN, SEE DETAIL ON THIS SHEET |
| MSW# | MASONRY SHEARWALL, REFER SCHEDULE ON S7.1 |
| #-TC# | CONCRETE COLUMN REFER SCHEDULE ON S7.2 |
| 1-SC# | STEEL COLUMN REFER SCHEDULE ON S7.2 |
| MC# | MASONRY COLUMN REFER DETAIL ON THIS SHEET |
| ### pH | INDICATES ASD DIAPHRAGM SHEAR. |

HATCH LEGEND (ADMIN BLDG)

- | |
|--|
| (MW1) UNO, 8" THK MASONRY WALL W/ #5 AT 24" OC |
| (MW2) 8" THK MASONRY WALL W/ #5 AT 40" OC |
| CONC COLUMN, REFER SCHEDULE S7.2 |
| 8" CONCRETE WALL BELOW SOG |
| MASONRY SHEARWALL (MSW) |

CODE REVIEW:

CERTIFICATE:



SPIEZE ARCHITECTURAL GROUP INC.
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SIGNATURE:
MICHAEL DONATO
STEVEN G. REGL
JOHN T. WRIGHT

SEAL:

CONSULTANTS:

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FILE NO. 24FTL018

PERMIT SET 2-13-2025

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FOR
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DISTRICT
9461 BRANDYWINE LANE, PORT ST.
LUCIE, FL 34986

FOR CODE REVIEW:

REVISIONS:	REVISION NAME	DATE
11	ASI #11	09.29.2025

FOR BID:

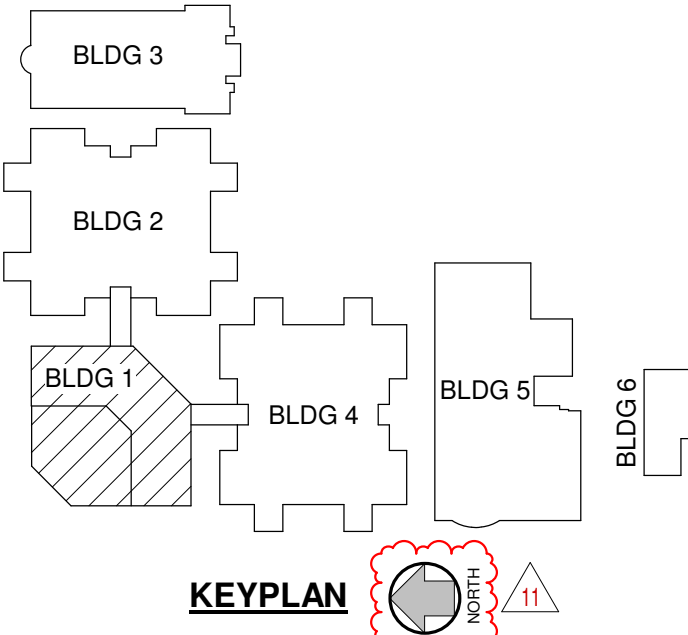
DRAWING TITLE:
FOUNDATION/FIRST
FLOOR FRAMING PLAN-
ADMINISTRATION -
BUILDING 1

COMMISSION NUMBER:
24FTL018

DO NOT SCALE THE DRAWINGS

DRAWING NUMBER:

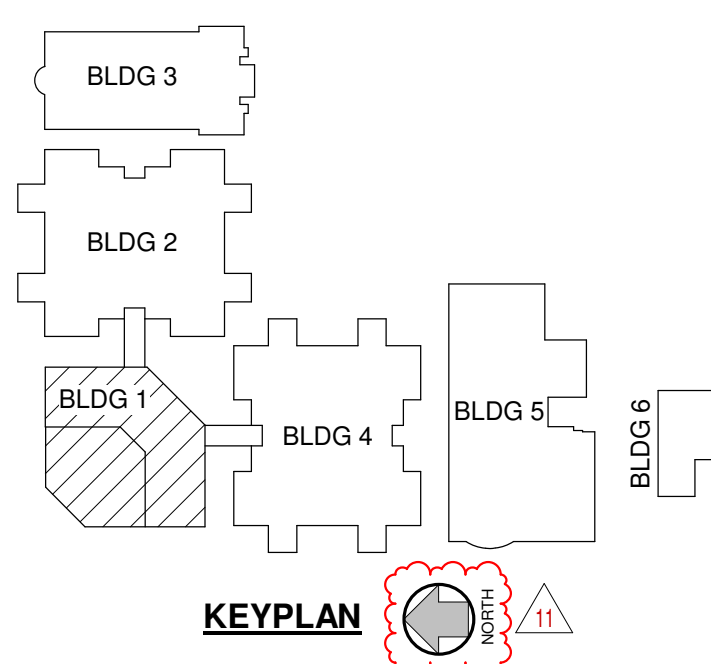
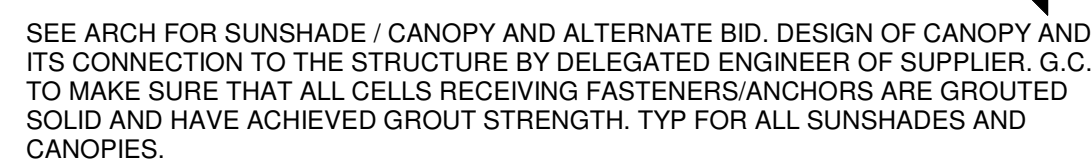
S1.1





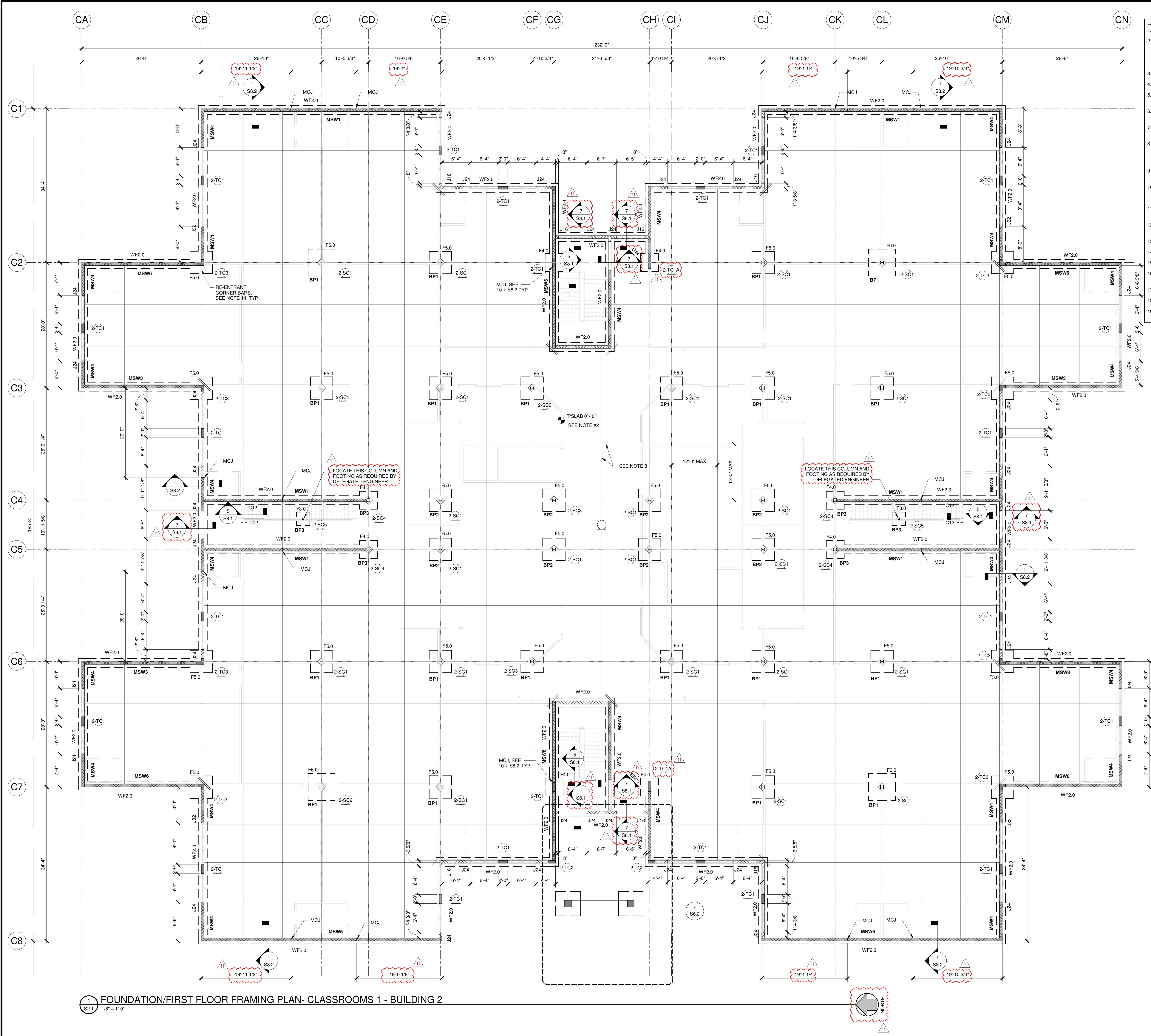
S1.2





NON-COMPOSITE BEAM LEGEND

S1.3



- FOUNDATION & GROUND FLOOR PLAN NOTES (CLASSROOM BLDG 2 & 4):
- FIRST FLOOR SLAB - REFERENCE ELEVATION 0'-0" U.N.O.
 - PROVIDE 5" THICK CONCRETE SLAB ON GRADE REINF W/ 6x6 W14xW14 WWR IN SHEETS (NOT ROLLS) CHAISED TO TOP OF SLAB. SEE DETAIL 6 / S8.1. PLACE CONCRETE ON VAPOR BARRIER PER ARCH. REQUIREMENTS BUT NOT LESS THAN 15 MILS. PREPARE SUBGRADE IN ACCORDANCE WITH GEOTECHNICAL REPORT.
 - SEE MEP DRAWINGS FOR SLAB-ON-GRADE PENETRATIONS.
 - TOP OF ALL FOOTINGS SHALL BE -1'-4" U.N.O.
 - CONTINUOUS WALL FOOTINGS SHALL EXTEND FULL LENGTH OF THE FOOTING WIDTH BEYOND END WALLS. U.N.O.
 - STEP TOP OF CONTINUOUS WALL FOOTINGS AS NECESSARY FOR PIPES OR CONDUIT. SEE 19 / S8.1
 - FOR TYPICAL CMU WALL DETAILS SEE SCHEDULE ON THIS SHEET FOR DETAILS
 - PROVIDE CONTROL JOINTS PER SECTIONS 2 / S8.1 AND STRUCTURAL NOTES. CONSTRUCTION JOINTS MAY BE PLACED IN LIEU OF CJ AT CONTRACTOR'S DISCRETION. REFER AND SEE 3 / S8.1.
 - FOR DETAILS OF FOOTINGS AT CORNERS AND INTERSECTIONS SEE 17 / S8.1.
 - VERIFY ALL DIMENSIONS AND ELEVATIONS WITH ARCHITECTURAL DRAWINGS PRIOR TO CONSTRUCTION OR FABRICATION. SEE ARCHITECTURAL DRAWINGS FOR ADDITIONAL INFORMATION.
 - CENTERLINES OF COLUMNS AND BEAMS SHALL COINCIDE WITH THE FOUNDATION CENTERLINES. U.N.O.
 - CONCRETE SLAB-ON-GRADE SHALL BE FORMED ON COMPACTED SOILS. REFER TO GEOTECH REPORT FOR SUBGRADE PREPARATION.
 - FOR CONCRETE STRENGTHS REFER TO STRUCTURAL NOTES.
 - RE-ENTRANT CORNER BARS (TYP). SEE DETAIL 13 / S8.1
 - SEE SHEET S7.1 FOR STRUCTURAL SCHEDULES
 - SEE FOOTING SCHEDULE FOR ISOLATED FOOTINGS AND WALL FOOTING SIZE & REINFORCEMENT ON S7.1 SHEET.
 - SEE ARCH DRAWINGS FOR SLOPE AND FLOOR DRAINS IN SOG
 - REFER 9 / S8.3 FOR TYP. LINTEL SCHEDULE
 - SEE STRUCTURAL NOTES AND GEOTECH REPORT FOR BEARING PRESSURE AND VIBRO REPLACEMENT STONE COLUMN FOUNDATION.

- LEGEND:
- TE-# DENOTES THICKENED SLAB EDGE, SEE 33 / S8.1
- TB# DENOTES CONCRETE TIE BEAM TYPE, SEE SCHEDULE ON S7.1 SHEET
- J# MASONRY JAMB, REFER SCHEDULE ON S7.1
- BP# DENOTES BASE PLATE TYPE, SEE SCHEDULE ON 2 / S7.1 SHEET
- MC# DENOTES MASONRY COLUMN, SEE DETAIL ON THIS SHEET
- MSW# MASONRY SHEARWALL, REFER SCHEDULE ON S7.1
- 2-TC# CONCRETE COLUMN REFER SCHEDULE ON S7.2
- SC# STEEL COLUMN REFER SCHEDULE ON S7.2
- MC# MASONRY COLUMN REFER DETAIL ON THIS SHEET
- ### pH INDICATES ASD DIAPHRAGM SHEAR.

CLASSROOM HATCH LEGEND	
(MW) UNO 8" THK MASONRY WALL W/ #5 AT 24" OC	
CONC COLUMN, REFER SCHEDULE S7.2	
MASONRY SHEARWALL	

CODE REVIEW:

CERTIFICATE:

spieze

SPIEZE ARCHITECTURAL GROUP INC.
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TO THE BEST OF MY KNOWLEDGE AND
ABILITY, THE COMPLETED STRUCTURE
DEPICTED ON THESE PLANS
COMPLIES WITH THE APPLICABLE
MINIMUM BUILDING CODES.
FILE NO. 24FTL018

PERMIT SET 2-13-2025

PROJECT:

**ST. LUCIE WEST GROVE
K-8 SCHOOL**

10701 SW SUNDANCE VISTA BLVD
PORT ST. LUCIE, FL 34987

FOR

**ST. LUCIE SCHOOL
DISTRICT**

9461 BRANDYWINE LANE, PORT ST.
LUCIE, FL 34986

FOR CODE REVIEW:

REVISIONS:

#	REVISION NAME	DATE
11	ASH #11	09.29.2025

FOR BID:

DRAWING TITLE:

**FOUNDATION/FIRST
FLOOR FRAMING PLAN-
CLASSROOMS 1 -
BUILDING 2**

COMMISSION NUMBER:

24FTL018

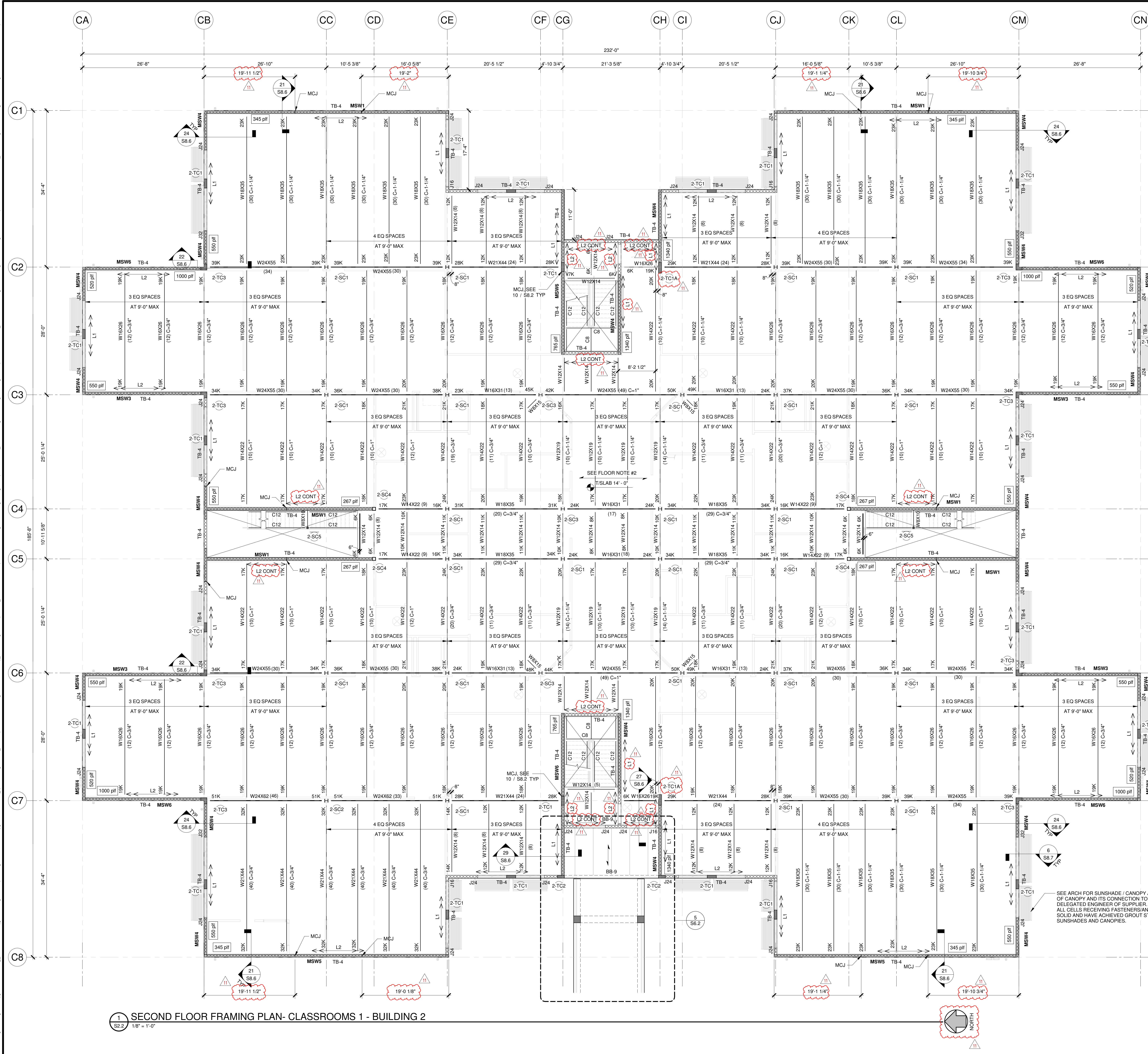
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DRAWING NUMBER:

S2.1

KEYPLAN

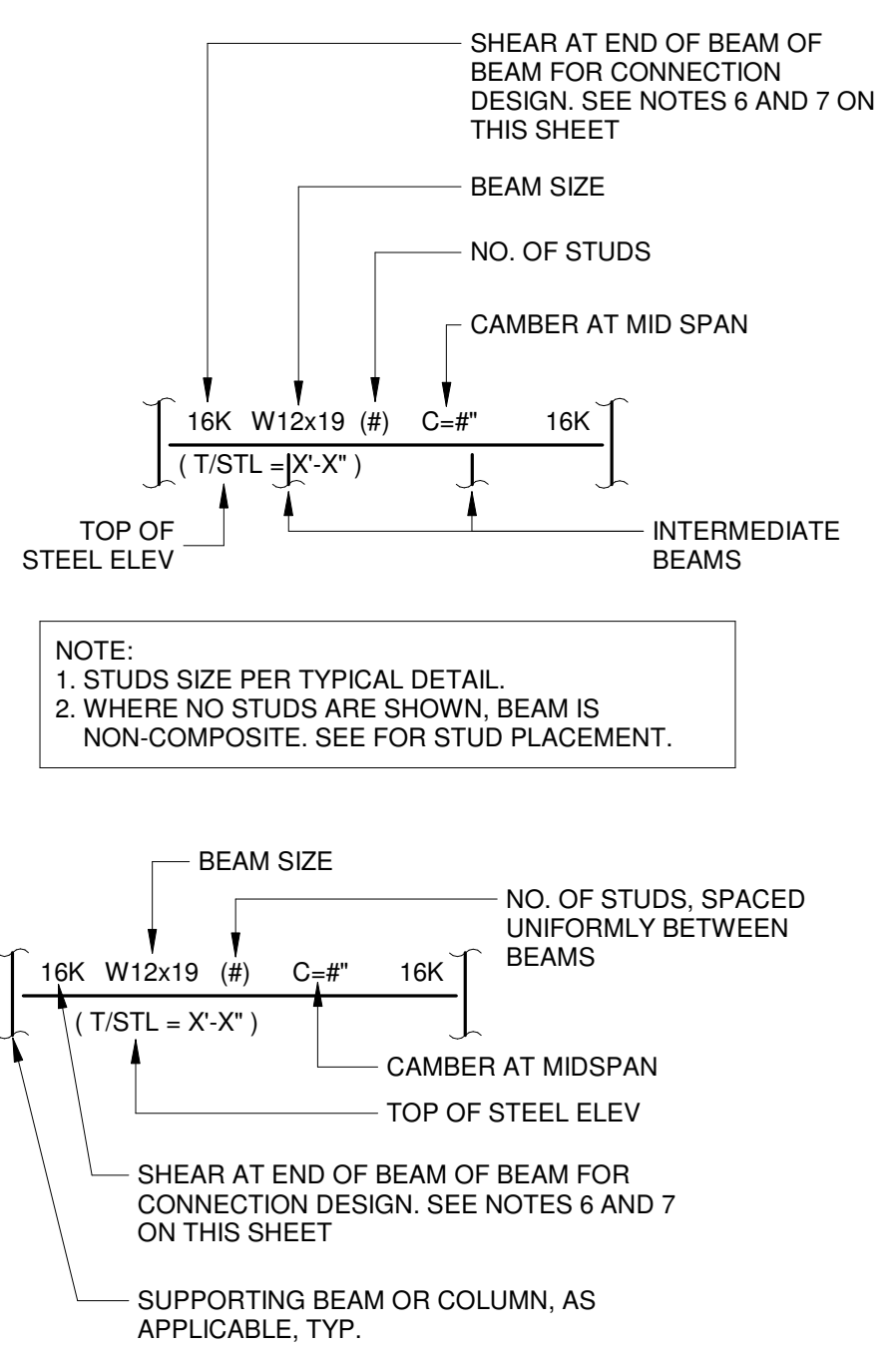
BLDG 1 BLDG 2 BLDG 3 BLDG 4 BLDG 5 BLDG 6



COMPOSITE FLOOR NOTES (CLASSROOM 2 & 4):
1. TOP OF SLAB ELEVATION = +14'-0".
TOP OF FLOOR = 13'-5 1/2".
2. UNO FLOOR DECK TO BE 4 1/2" NORMAL WEIGHT CONCRETE (FC = 3000 PSI) ON 2" (20 GA) COMPOSITE DECK, 2VLI BY VULCRAFT (6 1/2" TOTAL THICKNESS) W/ 6x6 W2 1xW2 1 WELDED WIRE REINFORCING (WWR) W/ SHEETS NOT ROLLS, CHAIRED TO THE TOP OF SLAB. SHORE DECK IF LESS THAN (3) CONTINUOUS SPANS AND IN ACCORDANCE W/ MAX SDI UNSHORED CLEAR SPAN PUBLISHED BY MFR UNTIL CONCRETE HAS REACHED 75% COMPRESSIVE STRENGTH. FLOOR DECK TO SPAN MINIMUM THREE SPAN FOR UNSHORED CONDITION. SEE PLAN FOR EXTENTS AT ADMIN BLDG TO CLASSROOM BUILDING CONNECTION. FLOOR TO BE 9" HOLLOW CORE PRECAST PLANKS, 8HC WITH MINIMUM 2" TOPPING REINFORCED W/ 6x6 W2 1xW2 1 FOR SLOPE AND MAX THICKNESS OF TOPPING SEE ARCH.
3. FLOOR LOADS:
DEAD LOAD = SEE LOADING PLANS
LIVE LOAD = SEE LOADING PLANS
4. ALL COMPOSITE FLOOR BEAMS SHALL HAVE A MINIMUM OF 3/4" x 5 1/2" HEADED STUDS AT 12" MAXIMUM (ONE STUD PER BEAM MIN UNO) SEE DETAIL.
5. CONTRACTOR SHALL VERIFY ALL SLAB OPENING DIMENSIONS AND LOCATION WITH ARCH AND MECH CONTRACTOR PRIOR TO FABRICATION OF STEEL.
6. BEAM END REACTIONS INDICATED ON PLAN ARE ASD SERVICE LOADS.
7. FOR BEAM REACTIONS NOT INDICATED IN PLAN DESIGN THE CONNECTION FOR A MINIMUM REACTION OF 6K.
8. FOR DIMENSIONS NOT SHOWN SEE ARCHITECTURAL DRAWINGS.
9. REFER 9 / S8.3 FOR TYP. LINTEL SCHEDULE
10. L1 - INDICATES L6x4x1/2 (LLV) CONT W/ 5/8" DIA x 4" EMBEDMENT LENGTH TYPED HD ANCHORS BY SIMPSON STRONGTIE @12" OC IN FULLY GROUTED CMU / CONC.
L2 - INDICATES L5x3x3/8 (LLV) CONT W/ 5/8" DIA x 4" EMBEDMENT LENGTH TYPED HD ANCHORS BY SIMPSON STRONGTIE @12" OC IN FULLY GROUTED CMU / CONC.

LEGEND:
TE-# DENOTES THICKENED SLAB EDGE, SEE 33 / S8.1
TB-# DENOTES CONCRETE BEAM TYPE, SEE SCHEDULE ON S7.1 SHEET
J# MASONRY JAMB, REFER SCHEDULE ON S7.1
BP# DENOTES BASE PLATE TYPE, SEE SCHEDULE ON 2 / S7.1 SHEET
MC# DENOTES MASONRY COLUMN, SEE DETAIL ON THIS SHEET
MSW# MASONRY SHEARWALL, REFER SCHEDULE ON S7.1
#TC# CONCRETE COLUMN REFER SCHEDULE ON S7.2
SC# STEEL COLUMN REFER SCHEDULE ON S7.2
MC# MASONRY COLUMN REFER DETAIL ON THIS SHEET
p# INDICATES ASD DIAPHRAGM SHEAR.

CLASSROOM HATCH LEGEND
(MW1) UNO 8" THK MASONRY WALL W/ #5 AT 24" OC
CONC COLUMN, REFER SCHEDULE S7.2
MASONRY SHEARWALL



CERTIFICATE:

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TO THE BEST OF MY KNOWLEDGE AND ABILITY, THE COMPLETED STRUCTURE DEPICTED ON THESE PLANS COMPLIES WITH THE APPLICABLE MINIMUM BUILDING CODES.
FILE NO.: 24FTL018

PERMIT SET 2-13-2025

PROJECT:

ST. LUCIE WEST GROVE K-8 SCHOOL
10701 SW SUNDANCE VISTA BLVD
PORT ST. LUCIE, FL 34987

FOR

ST. LUCIE SCHOOL DISTRICT
9461 BRANDYWINE LANE, PORT ST. LUCIE, FL 34986

FOR CODE REVIEW:

REVISIONS:

#	REVISION NAME	DATE
1	ASH	09/29/2025

FOR BID:

DRAWING TITLE:

SECOND FLOOR FRAMING PLAN- CLASSROOMS 1 - BUILDING 2

COMMISSION NUMBER:

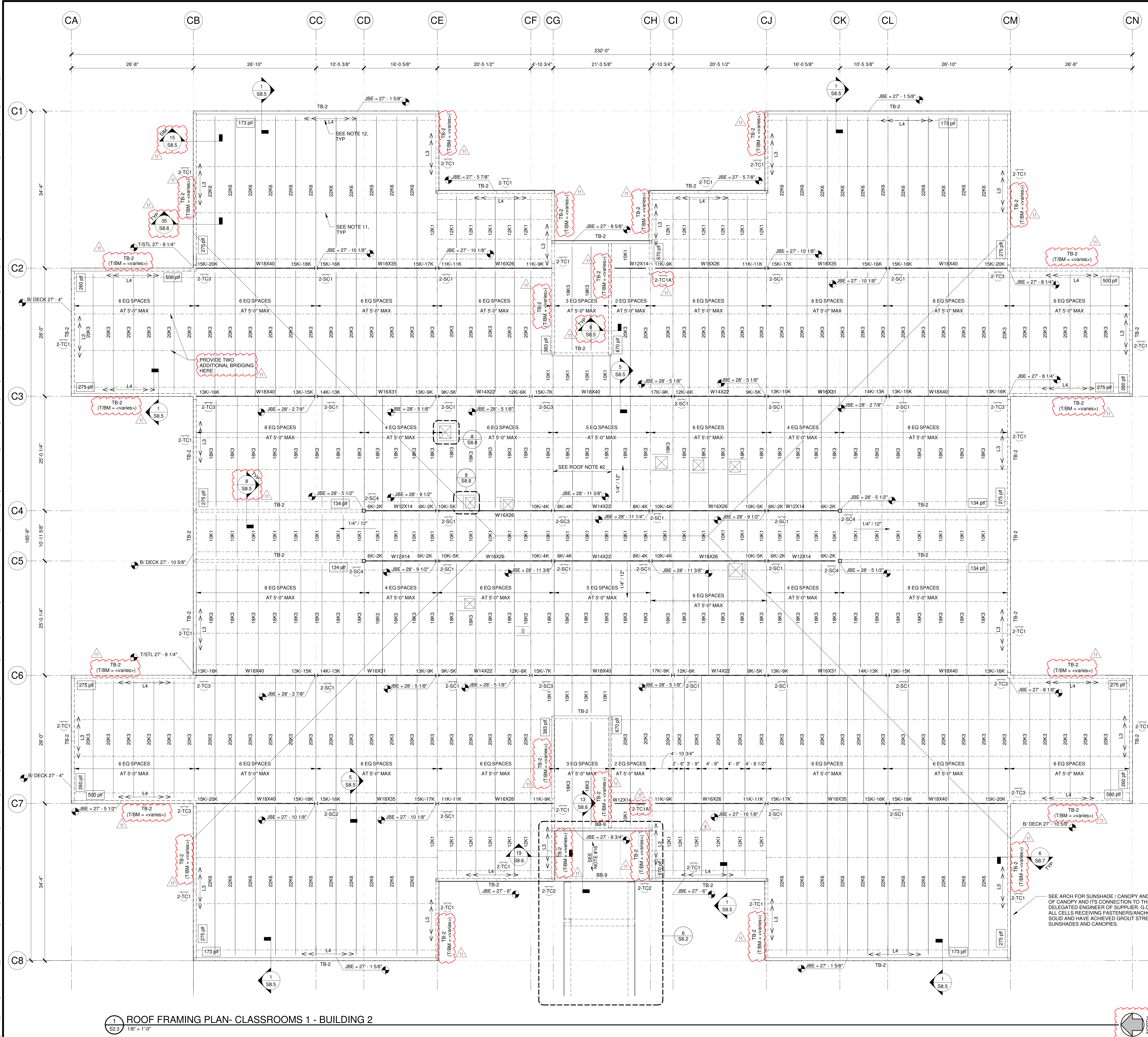
24FTL018

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DRAWING NUMBER:

S2.2

KEYPLAN



1 ROOF FRAMING PLAN- CLASSROOMS 1 - BUILDING 2
S2.3 1/8" = 1'-0"

- ROOF FRAMING NOTES: CLASSROOM 2 & 4:**
- TOP OF STEEL ELEVATION - SEE PLAN.
 - 1-1/2" (20 GAGE) G90 GALV TYPE B ROOF DECK. FASTEN ROOF DECK TO SUPPORTS PER ROOF DECK ATTACHMENT SCHEDULE ON TYPICAL ROOF DETAILS SHEET S8.8. ROOF DECK TO SPAN MINIMUM THREE SPANS.
AT ADMIN BLDG TO CLASSROOM BUILDING CONNECTION, ROOF TO BE 6" HOLLOW CORE PRECAST PLANKS, 6HC WITH MINIMUM 2" TOPPING REINFORCED W/ 6x6-W2.1XW2.1 FOR SLOPE AND MAX THICKNESS OF TOPPING SEE ARCH.
 - REFER TO STRUCTURAL NOTES AND PROJECT SPECIFICATIONS FOR DEFINITION OF SYMBOLS, ABBREVIATIONS, AND OTHER INFORMATION AND CRITERIA NOT SHOWN ON PLAN.
 - LOADING CRITERIA IS DEFINED ON DRAWINGS. NOTIFY ENGINEER OF SPECIAL ROOF/CEILING LOADING CONDITIONS NOT OTHERWISE IDENTIFIED ON THE CONTRACT DOCUMENTS.
 - PRIOR TO FABRICATION AND CONSTRUCTION, THE CONTRACTOR SHALL VERIFY DIMENSIONS AND ELEVATIONS WITH THE ARCHITECTURAL DRAWINGS. DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT / ENGINEER BEFORE PROCEEDING WITH CONSTRUCTION.
 - INDICATES SPAN DIRECTION OF STRUCTURAL DECK. SEE NOTES ON THIS SHEET FOR DECK SPECIFICATIONS.
 - TOP OF ROOF AND CEILING SLOPE ELEVATIONS AND LOCATIONS VARY AND SHALL BE COORDINATED WITH THE ARCHITECTURAL DRAWINGS PRIOR TO FABRICATION.
 - FRAMING SHALL BE EQUALLY SPACED BETWEEN COLUMN BAYS UNLESS NOTED OTHERWISE OR DIMENSIONED ON PLAN.
 - COORDINATE FINAL SIZE AND LOCATION OF ROOF OPENINGS, PENETRATIONS, AND CHASES WITH ARCHITECTURAL AND MEP/FP DRAWINGS.
 - DIMENSIONS TO ROOF TOP EQUIPMENT ARE APPROXIMATE AND SHALL BE VERIFIED BY THE CONTRACTOR PRIOR TO FABRICATION AND UPON FINAL SELECTION OF EQUIPMENT AND CURBING.
 - HORIZONTAL BRIDGING PER JOIST MFR MIN AS SHOWN ON PLAN, TYP. REFER 35 / S8.6
 - UPLIFT BRIDGING PER JOIST MFR MIN AS SHOWN ON PLAN, TYP. REFER 35 / S8.6 (SIM)
 - CONNECTION MOMENT CONNECTION. DESIGN MOMENT CONNECTION FOR FULL MOMENT AND SHEAR CAPACITY OF BEAM.
 - BEAM END REACTIONS INDICATED ON PLAN ARE ASD SERVICE LOADS.
 - FOR BEAM REACTIONS NOT INDICATED IN PLAN DESIGN THE CONNECTION FOR A MINIMUM REACTION OF 6K.
 - THE DECK SHALL BE PRECAST 6" HOLLOW CORE SPANNING AS SHOWN ON THE PLAN W/ 2" MIN. CONCRETE TOPPING REIN W/ 6x6-W2.1XW2.1 WIRE MESH REINFORCEMENT (USE FLAT SHEETS NOT IN ROLLS) AT TOP OF THE TOPPING. SEE ARCH FOR SLOPES IN THE TOPPING.
 - REFER 9 / S8.3 FOR TYP. LINTEL SCHEDULE
 - L3 - INDICATES L5x3x3/8 (LLV) CONT W/ 5/8" DIA x 4" EMBEDMENT LENGTH TITEN HD ANCHORS BY SIMPSON STRONGTIE @12" OC IN FULLY GROUTED CMU / CONC.
L4 - INDICATES L5x3x3/8 (LLV) CONT W/ VERTICAL LEG NOTCHED AS NEEDED W/ 5/8" DIA x 4" EMBEDMENT LENGTH TITEN HD ANCHORS BY SIMPSON STRONGTIE @12" OC IN FULLY GROUTED CMU / CONC.

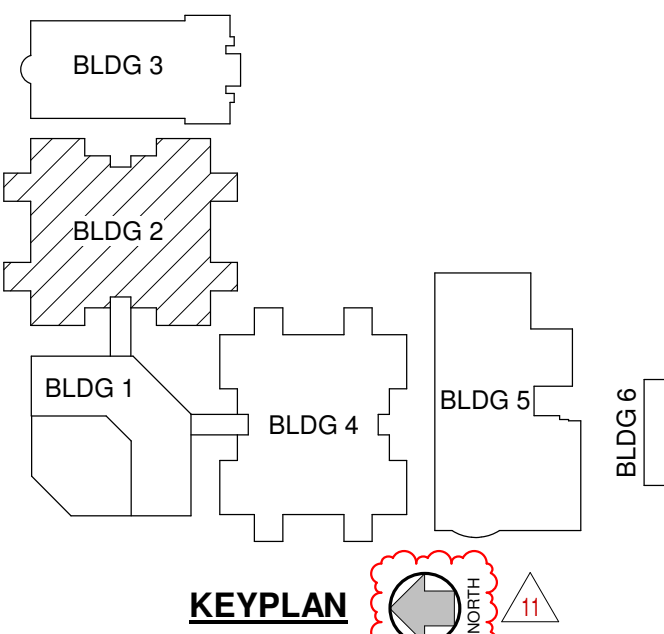
- LEGEND:**
- TE-# DENOTES THICKENED SLAB EDGE, SEE 33 / S8.1
 - TB# DENOTES CONCRETE TIE BEAM TYPE, SEE SCHEDULE ON S7.1 SHEET
 - J# MASONRY JAMB, REFER SCHEDULE ON S7.1
 - BP# DENOTES BASE PLATE TYPE, SEE SCHEDULE ON 2 / S7.1 SHEET
 - MC# DENOTES MASONRY COLUMN, SEE DETAIL ON THIS SHEET
 - MSW# MASONRY SHEARWALL, REFER SCHEDULE ON S7.1
 - #-TC# CONCRETE COLUMN REFER SCHEDULE ON S7.2
 - SC# STEEL COLUMN REFER SCHEDULE ON S7.2
 - MC# MASONRY COLUMN REFER DETAIL ON THIS SHEET
 - ### pfl INDICATES ASD DIAPHRAGM SHEAR.

CLASSROOM MATCH LEGEND	
(MW1) UNO 8" THK MASONRY WALL W/ #5 AT 24" OC	
CONC COLUMN, REFER SCHEDULE S7.2	
MASONRY SHEARWALL	

- BEAM SIZE
- +18K / +14K W12x19 C=1" +18K / +14K
(T/STL - X'-X') CAMBER AT MIDSPAN
TOP OF STEEL ELEV
- SHEAR AT END OF BEAM FOR CONNECTION DESIGN, TYP.
6K MIN REACTION PROVIDED. +18K / +14K INDICATE
GROUTED SERVICE FORCE AND EFFECTIVE UPLIFT SERVICE
FORCE.
- SUPPORTING BEAM OR COLUMN, AS APPLICABLE, TYP.

NON-COMPOSITE BEAM LEGEND

- SEE ARCH FOR SUNSHADE / CANOPY AND ALTERNATE BID. DESIGN
OF CANOPY AND ITS CONNECTION TO THE STRUCTURE BY
DELEGATED ENGINEER OF SUPPLIER, G.C. TO MAKE SURE THAT
ALL CELLS RECEIVING FASTENERS/ANCHORS ARE GROUTED
SOLID AND HAVE ACHIEVED GROUT STRENGTH, TYP FOR ALL
SUNSHADES AND CANOPIES.



CODE REVIEW:

CERTIFICATE:



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MINIMUM BUILDING CODES.
FILE NO. 24FTL018

PERMIT SET 2-13-2025

PROJECT:

**ST. LUCIE WEST GROVE
K-8 SCHOOL**

10701 SW SUNDANCE VISTA BLVD
PORT ST. LUCIE, FL 34987

FOR

**ST. LUCIE SCHOOL
DISTRICT**

9461 BRANDYWINE LANE, PORT ST.
LUCIE, FL 34986

FOR CODE REVIEW:

REVISIONS:		
#	REVISION NAME	DATE
8	ASH #8	06.19.2025
11	ASH #11	09.29.2025

FOR BID:

DRAWING TITLE:

**ROOF FRAMING PLAN-
CLASSROOMS 1 -
BUILDING 2**

COMMISSION NUMBER:

24FTL018

DO NOT SCALE THE DRAWINGS

DRAWING NUMBER:

S2.3

CODE REVIEW:

CERTIFICATE:



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FILE NO. 24FTL018

PERMIT SET 2-13-2025

PROJECT:

ST. LUCIE WEST GROVE
K-8 SCHOOL

10701 SW SUNDANCE VISTA BLVD
PORT ST. LUCIE, FL 34987

FOR

ST. LUCIE SCHOOL
DISTRICT

9461 BRANDYWINE LANE, PORT ST.
LUCIE, FL 34986

FOR CODE REVIEW:

REVISIONS:

#	REVISION NAME	DATE
4	ADDENDUM 4	01/27/2025
9	ASR #5	06/19/2025
11	ASR #11	09/29/2025

FOR BID:

DRAWING TITLE:

FOUNDATION/FIRST
FLOOR FRAMING PLAN-
GYM - BUILDING 3

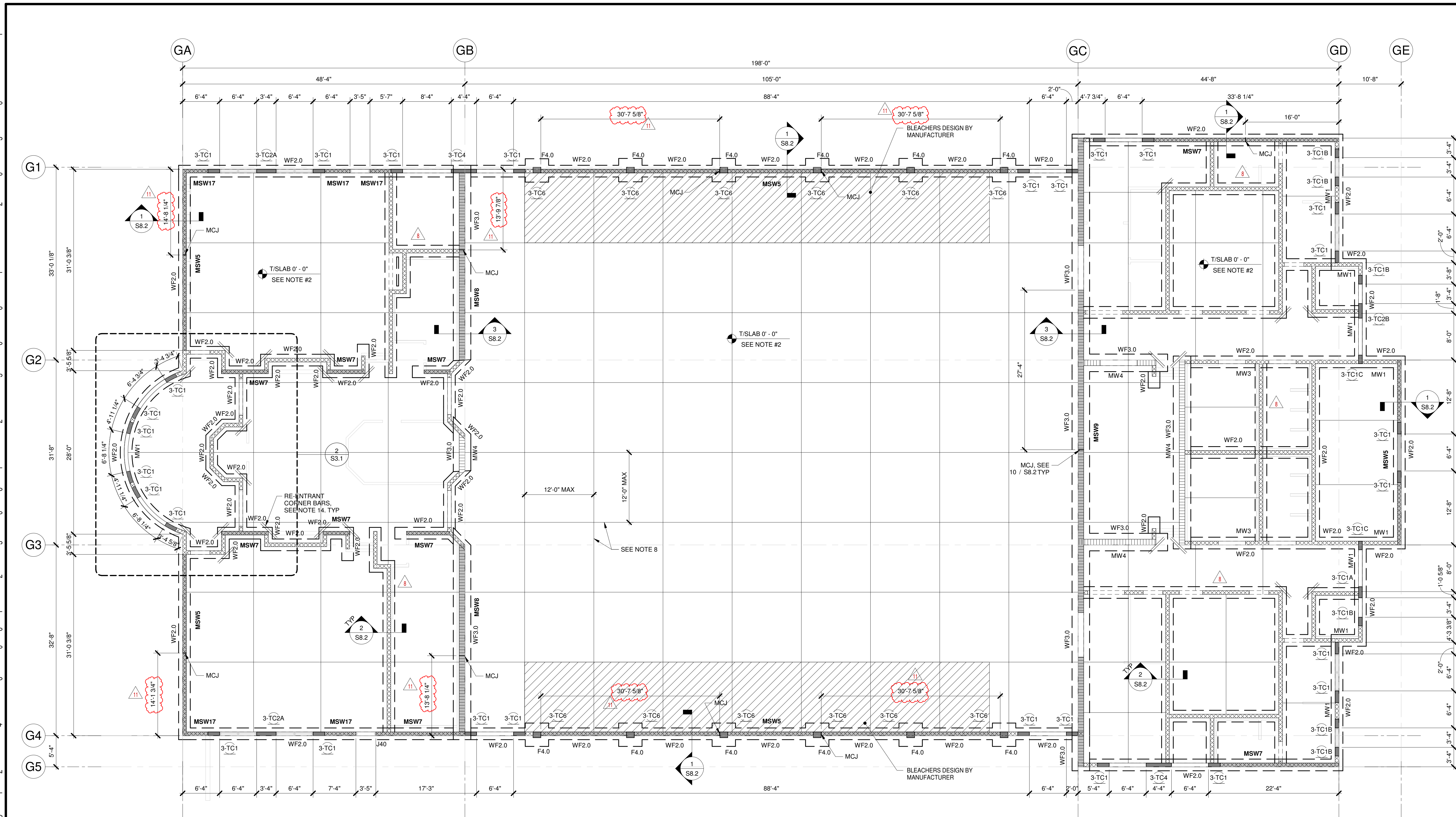
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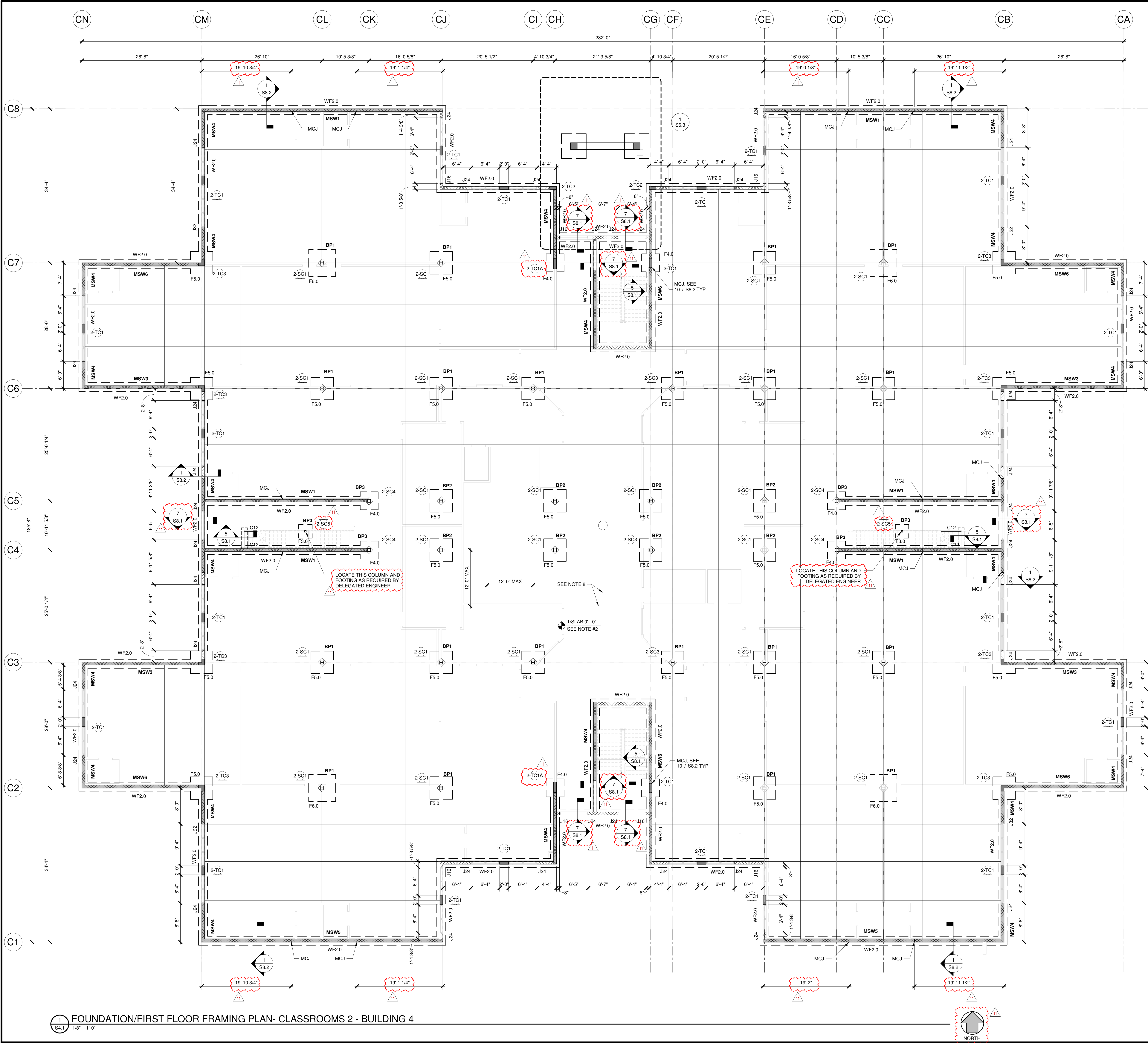
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DRAWING NUMBER:

S3.1



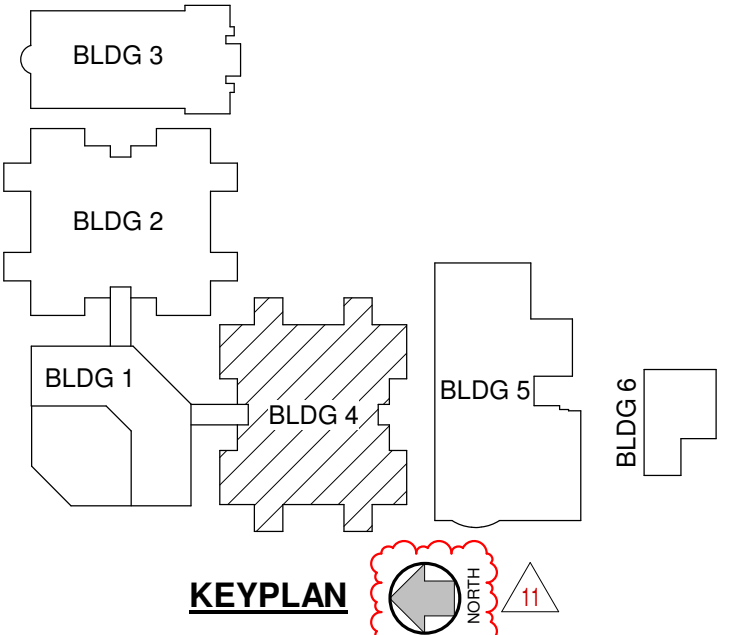


- FOUNDATION & GROUND FLOOR PLAN NOTES (ADMIN BLDG):**
1. TYPICAL CMU WALL DETAILS SEE SCHEDULE ON THIS SHEET FOR DETAILS.
 2. PROVIDE 5" THICK CONCRETE SLAB ON GRADE REINF W/ 6x6 W14W14 WWR IN SHEETS (NOT ROLLS) CHAISED TO TOP OF SLAB, SEE DETAIL 6 / S8.1. PLACE CONCRETE ON VAPOR BARRIER PER ARCH. REQUIREMENTS BUT NOT LESS THAN 15 MILS. PREPARE SUBGRADE IN ACCORDANCE WITH GEOTECHNICAL REPORT.
 3. SEE MEP DRAWINGS FOR SLAB-ON-GRADE PENETRATIONS.
 4. TOP OF ALL FOOTINGS SHALL BE -1'4" U.N.O.
 5. CONTINUOUS WALL FOOTINGS SHALL EXTEND FULL LENGTH OF THE FOOTING WIDTH BEYOND END WALLS, U.N.O.
 6. STEP TOP OF CONTINUOUS WALL FOOTINGS AS NECESSARY FOR PIPES OR CONDUIT. SEE 19 / S8.1
 7. FOR TYPICAL CMU WALL DETAILS SEE SCHEDULE ON THIS SHEET FOR DETAILS.
 8. PROVIDE CONTROL JOINTS PER SECTIONS 2 / S8.1 AND STRUCTURAL NOTES. CONSTRUCTION JOINTS MAY BE PLACED IN LIEU OF CJ AT CONTRACTOR'S DISCRETION, REFER AND SEE 3 / S8.1.
 9. FOR DETAILS OF FOOTINGS AT CORNERS AND INTERSECTIONS SEE 17 / S8.1.
 10. VERIFY ALL DIMENSIONS AND ELEVATIONS WITH ARCHITECTURAL DRAWINGS PRIOR TO CONSTRUCTION OR FABRICATION. SEE ARCHITECTURAL DRAWINGS FOR ADDITIONAL INFORMATION.
 11. CENTERLINES OF COLUMNS AND BEAMS SHALL COINCIDE WITH THE FOUNDATION CENTERLINES, U.N.O.
 12. CONCRETE SLAB-ON-GRADE SHALL BE FORMED ON COMPACTED SOILS. REFER TO GEOTECH REPORT FOR SUBGRADE PREPARATION.
 13. FOR CONCRETE STRENGTHS REFER TO STRUCTURAL NOTES.
 14. RE-ENTRANT CORNER BARS (TYP), SEE DETAIL 13 / S8.1
 15. SEE SHEET S7.1 FOR STRUCTURAL SCHEDULES.
 16. SEE FOOTING SCHEDULE FOR ISOLATED FOOTINGS AND WALL FOOTING SIZE & REINFORCEMENT ON S7.1 SHEET.
 17. SEE ARCH DRAWINGS FOR SLOPE AND FLOOR DRAINS IN SOG.
 18. REFER 9 / S8.3 FOR TYP. LINTEL SCHEDULE.
 19. SEE STRUCTURAL NOTES AND GEOTECH REPORT FOR BEARING PRESSURE AND VIBRO REPLACEMENT STONE COLUMN FOUNDATION.

- LEGEND:**
- TE-# DENOTES THICKENED SLAB EDGE, SEE 33 / S8.1
- TB# DENOTES CONCRETE TIE BEAM TYPE, SEE SCHEDULE ON S7.1 SHEET
- J# MASONRY JAMB, REFER SCHEDULE ON S7.1
- BP# DENOTES BASE PLATE TYPE, SEE SCHEDULE ON 2 / S7.1 SHEET
- MC# DENOTES MASONRY COLUMN, SEE DETAIL ON THIS SHEET
- MSW# MASONRY SHEARWALL, REFER SCHEDULE ON S7.1
- #TC# CONCRETE COLUMN REFER SCHEDULE ON S7.2
- SC# STEEL COLUMN REFER SCHEDULE ON S7.2
- MC# MASONRY COLUMN REFER DETAIL ON THIS SHEET
- ### pti INDICATES ASD DIAPHRAGM SHEAR.

CLASSROOM HATCH LEGEND	
(MW1) UNO 8" THK MASONRY WALL W/ #5 AT 24" OC	
CONC COLUMN, REFER SCHEDULE S7.2	
MASONRY SHEARWALL	

BASE PLATES ARE ADDED



CODE REVIEW:

CERTIFICATE:



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VERO BEACH, FL 32909
PHONE: 772-794-2929

SIGNATURE:
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PERMIT SET 2-13-2025

PROJECT:

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K-8 SCHOOL

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FOR

ST. LUCIE SCHOOL
DISTRICT

9461 BRANDYWINE LANE, PORT ST.
LUCIE, FL 34986

FOR CODE REVIEW:

REVISIONS:

#	REVISION NAME	DATE
4	ADDENDUM 4	01/27/2025
9	AS1 #5	08/19/2025
11	AS1 #11	09/29/2025

FOR BID:

DRAWING TITLE:

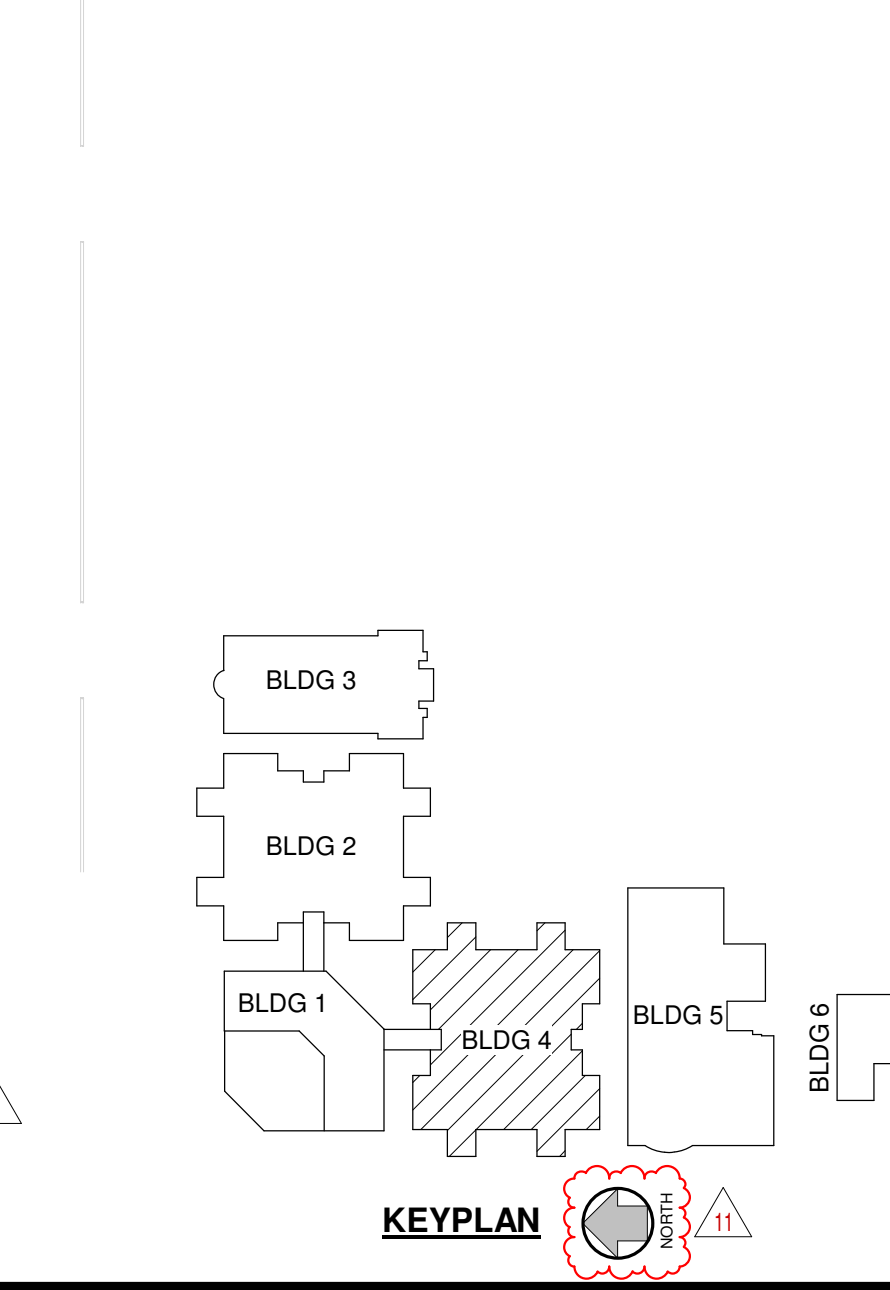
FOUNDATION/FIRST
FLOOR FRAMING PLAN-
CLASSROOMS 2 -
BUILDING 4

COMMISSION NUMBER:
24FTL018

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DRAWING NUMBER:

S4.1



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4	ADDENDUM 4	01.27.2025
11	ASI #11	09.29.2025

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SECOND FLOOR
FRAMING PLAN-
CLASSROOMS 2 -
BUILDING 4

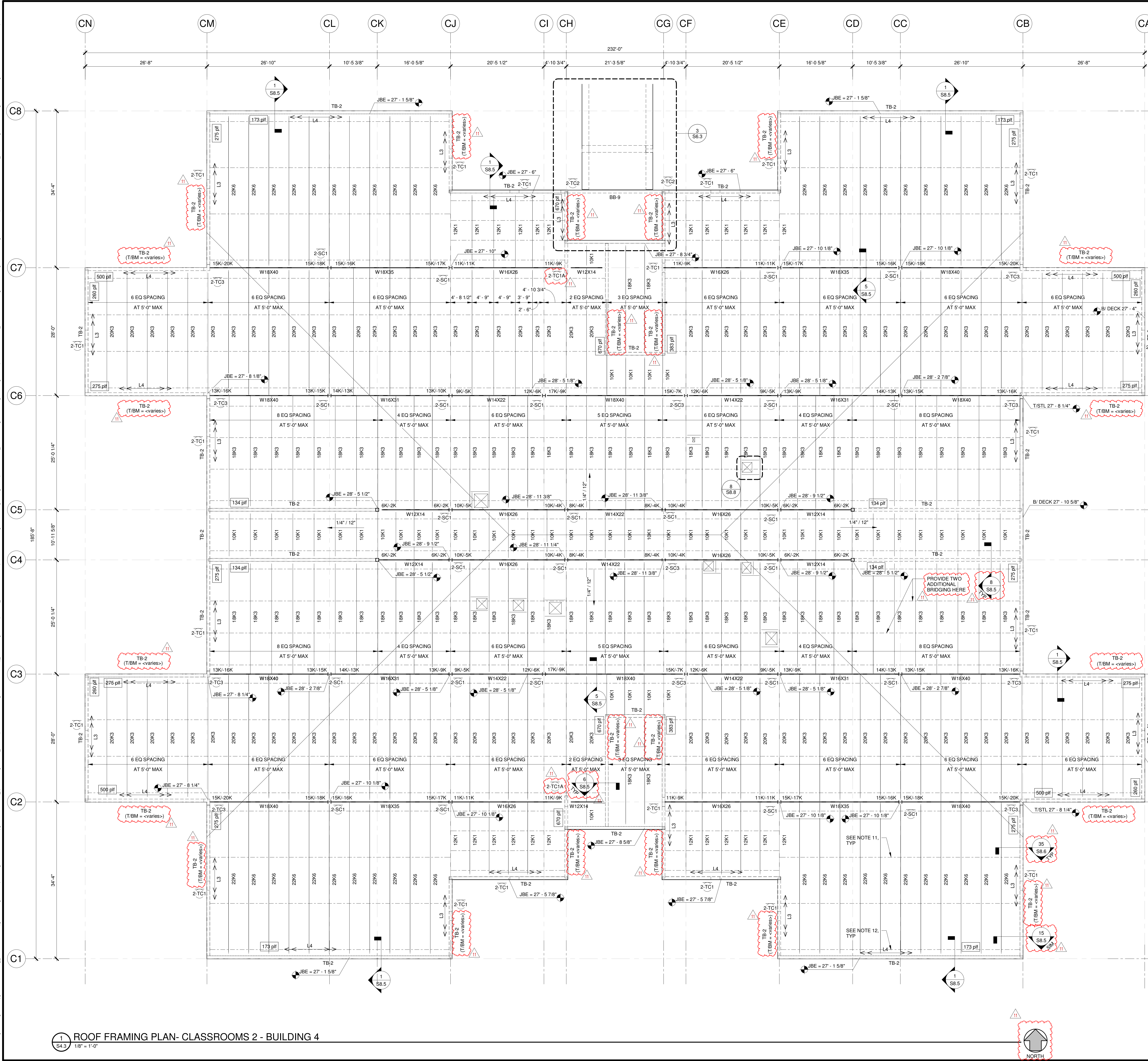
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ROOF FRAMING NOTES / CLASSROOMS 2 & 4:

- 1-1/2" (20 GAGE) G90 GALV TYPE B ROOF DECK. FASTEN ROOF DECK TO SUPPORTS PER ROOF DECK ATTACHMENT SCHEDULE ON TYPICAL ROOF DETAILS SHEET S8.8. ROOF DECK TO SPAN MINIMUM THREE SPANS AT ADMIN BLDG TO CLASSROOM BUILDING CONNECTION. ROOF TO BE 6" HOLLOW CORE PRECAST PLANKS. 6HC WITH MINIMUM 2" TOPPING REINFORCED W/ 6#XW2.1XW2.1 FOR SLOPE AND MAX THICKNESS OF TOPPING SEE ARCH.
- REFER TO STRUCTURAL NOTES AND PROJECT SPECIFICATIONS FOR DEFINITION OF SYMBOLS, ABBREVIATIONS, AND OTHER INFORMATION AND CRITERIA NOT SHOWN ON PLAN.
- LOADING CRITERIA IS DEFINED ON DRAWINGS. NOTIFY ENGINEER OF SPECIAL ROOF/CEILING LOADING CONDITIONS NOT OTHERWISE IDENTIFIED ON THE CONTRACT DOCUMENTS.
- PRIOR TO FABRICATION AND CONSTRUCTION, THE CONTRACTOR SHALL VERIFY DIMENSIONS AND ELEVATIONS WITH THE ARCHITECTURAL DRAWINGS. DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT / ENGINEER BEFORE PROCEEDING WITH CONSTRUCTION.
- INDICATES SPAN DIRECTION OF STRUCTURAL DECK. SEE NOTES ON THIS SHEET FOR DECK SPECIFICATIONS.
- TOP OF ROOF AND CEILING SLOPE ELEVATIONS AND LOCATIONS VARY AND SHALL BE COORDINATED WITH THE ARCHITECTURAL DRAWINGS PRIOR TO FABRICATION.
- FRAMING SHALL BE EQUALLY SPACED BETWEEN COLUMN BAYS UNLESS NOTED OTHERWISE OR DIMENSIONED ON PLAN.
- COORDINATE FINAL SIZE AND LOCATION OF ROOF OPENINGS, PENETRATIONS, AND CHASES WITH ARCHITECTURAL AND MEP/FP DRAWINGS.
- DIMENSIONS TO ROOF TOP EQUIPMENT ARE APPROXIMATE AND SHALL BE VERIFIED BY THE CONTRACTOR PRIOR TO FABRICATION AND UPON FINAL SELECTION OF EQUIPMENT AND CURBING.
- HORIZONTAL BRIDGING PER JOIST MFR MIN AS SHOWN ON PLAN, TYP. REFER 35 / S8.6
- UPLIFT BRIDGING PER JOIST MFR MIN AS SHOWN ON PLAN, TYP. REFER 35 / S8.6 (SIM)
- ◆ DENOTES MOMENT CONNECTION. DESIGN MOMENT CONNECTION FOR FULL MOMENT AND SHEAR CAPACITY OF BEAM.
- BEAM END REACTIONS INDICATED ON PLAN ARE ASD SERVICE LOADS.
- FOR BEAM REACTIONS NOT INDICATED IN PLAN DESIGN THE CONNECTION FOR A MINIMUM REACTION OF 6K.
- THE DECK SHALL BE PRECAST 6" HOLLOW CORE SPANNING AS SHOWN ON THE PLAN W/ 2" MIN. CONCRETE TOPPING REINFORCED W/ 6#XW2.1XW2.1 WIRE MESH REINFORCEMENT (USE FLAT SHEETS NOT IN ROLLS) AT TOP OF THE TOPPING. SEE ARCH FOR SLOPES IN THE TOPPING.
- REFER 9 / S8.3 FOR TYP. LINTEL SCHEDULE
- L3 INDICATES L5x3x3/8 (LVL) CONT W/ 5/8" DIA x 4" EMBEDMENT LENGTH TITEN HD ANCHORS BY SIMPSON STRONGTIE @ 12" OC IN FULLY GROUTED CMU / CONC.
L4 INDICATES L5x3x3/8 (LVL) CONT W/ VERTICAL LEG NOTCHED AS NEEDED W/ 5/8" DIA x 4" EMBEDMENT LENGTH TITEN HD ANCHORS BY SIMPSON STRONGTIE @ 12" OC IN FULLY GROUTED CMU / CONC.

LEGEND:

TE-# DENOTES THICKENED SLAB EDGE. SEE 33 / S8.1

TB# DENOTES CONCRETE TIE BEAM TYPE. SEE SCHEDULE ON S7.1 SHEET

J# MASONRY JAMB. REFER SCHEDULE ON S7.1

BP# DENOTES BASE PLATE TYPE. SEE SCHEDULE ON 2 / S7.1 SHEET

MC# DENOTES MASONRY COLUMN. SEE DETAIL ON THIS SHEET

MSW# MASONRY SHEARWALL. REFER SCHEDULE ON S7.1

#TC# CONCRETE COLUMN REFER SCHEDULE ON S7.2

SC# STEEL COLUMN REFER SCHEDULE ON S7.2

MC# MASONRY COLUMN REFER DETAIL ON THIS SHEET

pfl INDICATES ASD DIAPHRAGM SHEAR.

CLASSROOM HATCH LEGEND

(MW1) UNO 8" THK MASONRY WALL W/ #5 AT 24" OC

CONC COLUMN. REFER SCHEDULE S7.2

MASONRY SHEARWALL

BEAM SIZE

+16K / -14K W12x19 C=1" -14K

(T/STL = X'-X")

CAMBER AT MIDSPAN

TOP OF STEEL ELEV

SHEAR AT END OF BEAM FOR CONNECTION DESIGN, TYP. 6K MIN IF NO REACTION PROVIDED. +16K / -14K INDICATE GRAVITY SERVICE FORCE AND EFFECTIVE UPLIFT SERVICE FORCE.

SUPPORTING BEAM OR COLUMN, AS APPLICABLE, TYP.

NON-COMPOSITE BEAM LEGEND

BLDG 3

BLDG 2

BLDG 1

BLDG 4

BLDG 5

BLDG 6

KEYPLAN

CERTIFICATE

spieze

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DEPICTED ON THESE PLANS
COMPLIES WITH THE APPLICABLE
MINIMUM BUILDING CODES.
FILE NO. 24FTL018

PERMIT SET 2-13-2025

PROJECT:

**ST. LUCIE WEST GROVE
K-8 SCHOOL**

10701 SW SUNDANCE VISTA BLVD
PORT ST. LUCIE, FL 34987

FOR

**ST. LUCIE SCHOOL
DISTRICT**

9461 BRANDYWINE LANE, PORT ST.
LUCIE, FL 34986

FOR CODE REVIEW:

REVISIONS:

#	REVISION NAME	DATE
4	ADDENDUM 4	01.27.2025
11	ASR #11	09.29.2025

FOR BID:

DRAWING TITLE:

**ROOF FRAMING PLAN-
CLASSROOMS 2 -
BUILDING 4**

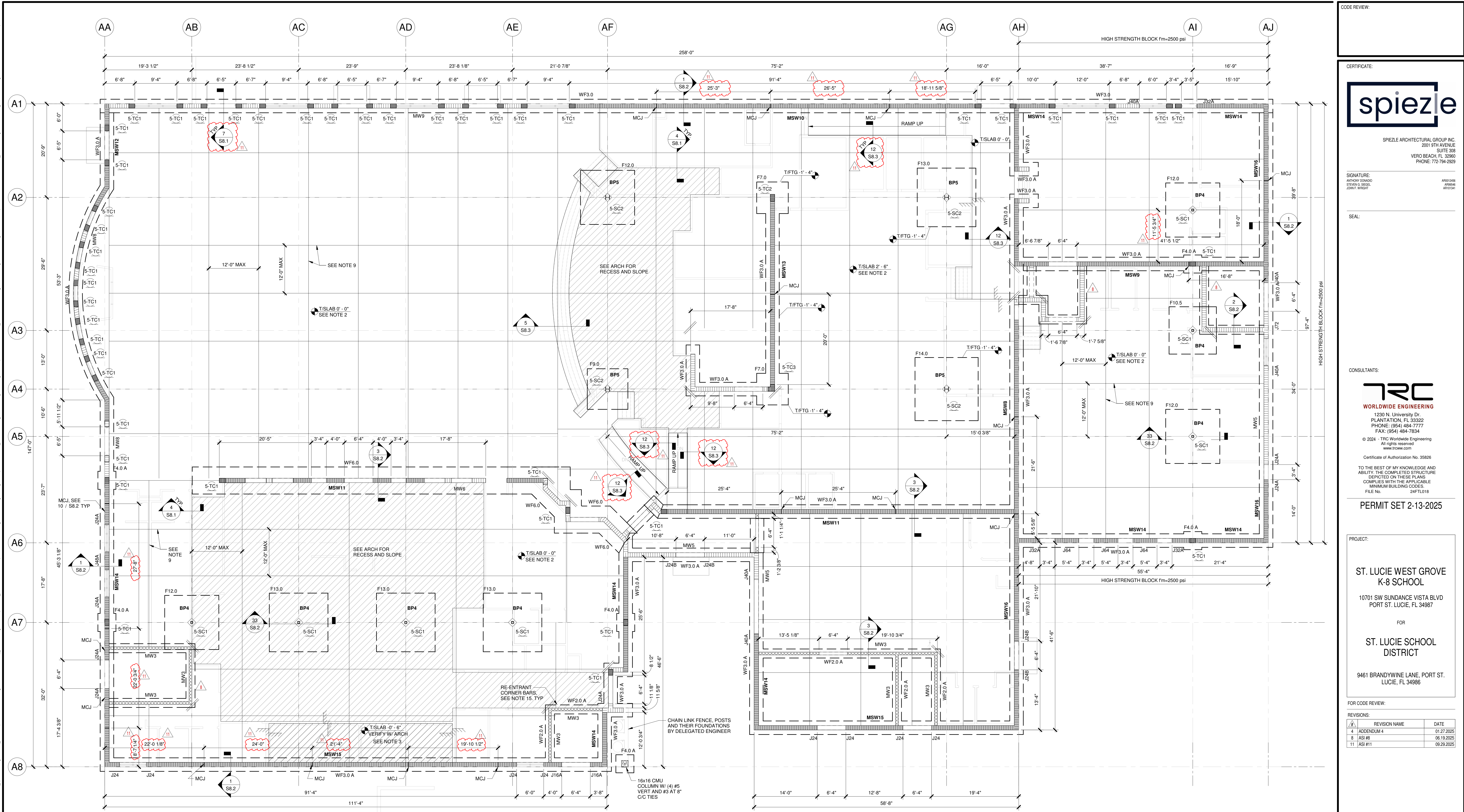
COMMISSION NUMBER:

24FTL018

DO NOT SCALE THE DRAWINGS

DRAWING NUMBER:

S4.3



1 FOUNDATION/FIRST FLOOR- AUDETHERIA - BUILDING 5

FOUNDATION & GROUND FLOOR PLAN NOTES:

1. T/FIRST FLOOR SLAB = REFERENCE ELEVATION 0'-0" U.N.O.
2. PROVIDE 5" THICK 4,000 PSI NW (145 PCF) CONCRETE SLAB ON GRADE REINF W/ #6 W1.4XW1.4 WWR IN SHEETS NOT ROLLS CHAIRED TO TOP OF SLAB. SEE DETAIL 6 / S8.1. PLACE CONCRETE ON VAPOR BARRIER PER ARCH REQUIREMENTS BUT NOT LESS THAN 15 MILS. PREPARE SUBGRADE IN ACCORDANCE WITH GEOTECHNICAL REPORT.
3. PROVIDE 7" THICK 4,000 PSI NW CONCRETE SLAB ON GRADE REINF W/ #6 W2.4XW2.4 WWR IN SHEETS NOT ROLLS CHAIRED TO TOP OF SLAB. SEE DETAIL 6 / S8.1. PLACE CONCRETE ON VAPOR BARRIER PER ARCH REQUIREMENTS BUT NOT LESS THAN 15 MILS. PREPARE SUBGRADE IN ACCORDANCE WITH GEOTECHNICAL REPORT.
4. SEE MEP DRAWINGS FOR SLAB-ON-GRADE PENETRATIONS.
5. TOP OF ALL FOOTINGS SHALL BE -1'-4" U.N.O.
6. CONTINUOUS WALL FOOTINGS SHALL EXTEND FULL LENGTH OF THE FOOTING WIDTH BEYOND END WALLS. U.N.O
7. STEP TOP OF CONTINUOUS WALL FOOTINGS AS NECESSARY FOR PIPES OR CONDUIT. SEE 19 / S8.1
8. FOR TYPICAL CMU WALL DETAILS SEE SCHEDULE ON THIS SHEET FOR DETAILS
9. PROVIDE CONTROL JOINTS PER SECTIONS 2 / S8.1 AND STRUCTURAL NOTES. CONSTRUCTION JOINTS MAY BE PLACED IN LIEU OF CJ AT CONTRACTOR'S DISCRETION, REFER AND SEE 3 / S8.1.

FOUNDATION & GROUND FLOOR PLAN NOTES:

10. FOR DETAILS OF FOOTINGS AT CORNERS AND INTERSECTIONS SEE 17 / S8.1
11. VERIFY ALL DIMENSIONS AND ELEVATIONS WITH ARCHITECTURAL DRAWINGS PRIOR TO CONSTRUCTION OR FABRICATION. SEE ARCHITECTURAL DRAWINGS FOR ADDITIONAL INFORMATION.
12. CENTERLINES OF COLUMNS AND BEAMS SHALL COINCIDE WITH THE FOUNDATION CENTERLINES. U.N.O.
13. CONCRETE SLAB-ON-GRADE SHALL BE FORMED ON COMPACTED SOILS. REFER TO GEOTECH REPORT FOR SUBGRADE PREPARATION.
14. FOR CONCRETE STRENGTHS REFER TO STRUCTURAL NOTES.
15. RE-ENTRANT CORNER BARS (TYP). SEE DETAIL 13 / S8.1
16. SEE SHEET S7.1 FOR STRUCTURAL SCHEDULES
17. SEE FOOTING SCHEDULE FOR ISOLATED FOOTINGS AND WALL FOOTING SIZE & REINFORCEMENT ON S7.1 SHEET.
18. SEE ARCH DRAWINGS FOR SLOPE AND FLOOR DRAINS IN SOG
19. REFER 9 / S8.3 FOR TYP. LINTEL SCHEDULE

LEGEND:

TE-# DENOTES THICKENED SLAB EDGE, SEE 33 / S8.1

TB# DENOTES CONCRETE TIE BEAM TYPE, SEE SCHEDULE ON S7.1 SHEET

J# MASONRY JAMB, REFER SCHEDULE ON S7.1

BP# DENOTES BASE PLATE TYPE, SEE SCHEDULE ON 2 / S7.1 SHEET

MC# DENOTES MASONRY COLUMN, SEE DETAIL ON THIS SHEET

MSW# MASONRY SHEARWALL, REFER SCHEDULE ON S7.1

#TC# CONCRETE COLUMN REFER SCHEDULE ON S7.2

SC# STEEL COLUMN REFER SCHEDULE ON S7.2

MC# MASONRY COLUMN REFER DETAIL ON THIS SHEET

pti INDICATES ASD DIAPHRAGM SHEAR.

AUDETHERIA HATCH LEGEND

(MW3) 8" THK MASONRY WALL W/ #5 AT 48" OC

(MW4) UNO 12" THK MASONRY WALL W/ #5 AT 24" OC

(MW5) 12" THK MASONRY WALL W/ #6 AT 24" OC

(MW6) 12" THK MASONRY WALL W/ #6 AT 32" OC

(MW8) 12" THK MASONRY WALL W/ #6 AT 8" OC

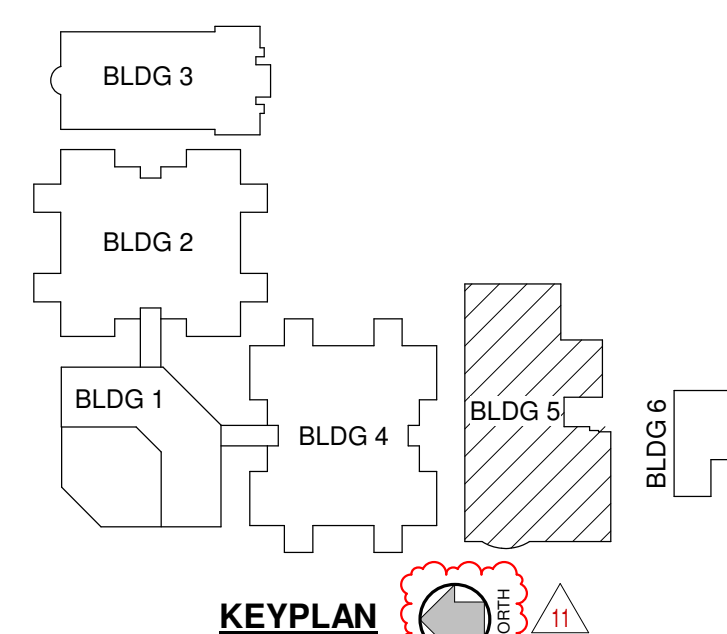
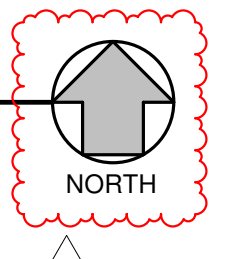
(MW9) 12" THK MASONRY WALL W/ #6 AT 16" OC

CONC COLUMN, REFER SCHEDULE S7.2

CONCRETE WALL

MASONRY SHEARWALL - 12" THK

ALL EXTERIOR WALLS TO BE SOLID GROUTED



CODE REVIEW:

CERTIFICATE:

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PROJECT:

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9461 BRANDYWINE LANE, PORT ST.
LUCIE, FL 34986

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REVISIONS:

#	REVISION NAME	DATE
4	ADDENDUM 4	01/27/2025
9	ASR #1	08/19/2025
11	ASR #11	09/29/2025

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DRAWING TITLE:

**FOUNDATION/FIRST
FLOOR- AUDETHERIA -
BUILDING 5**

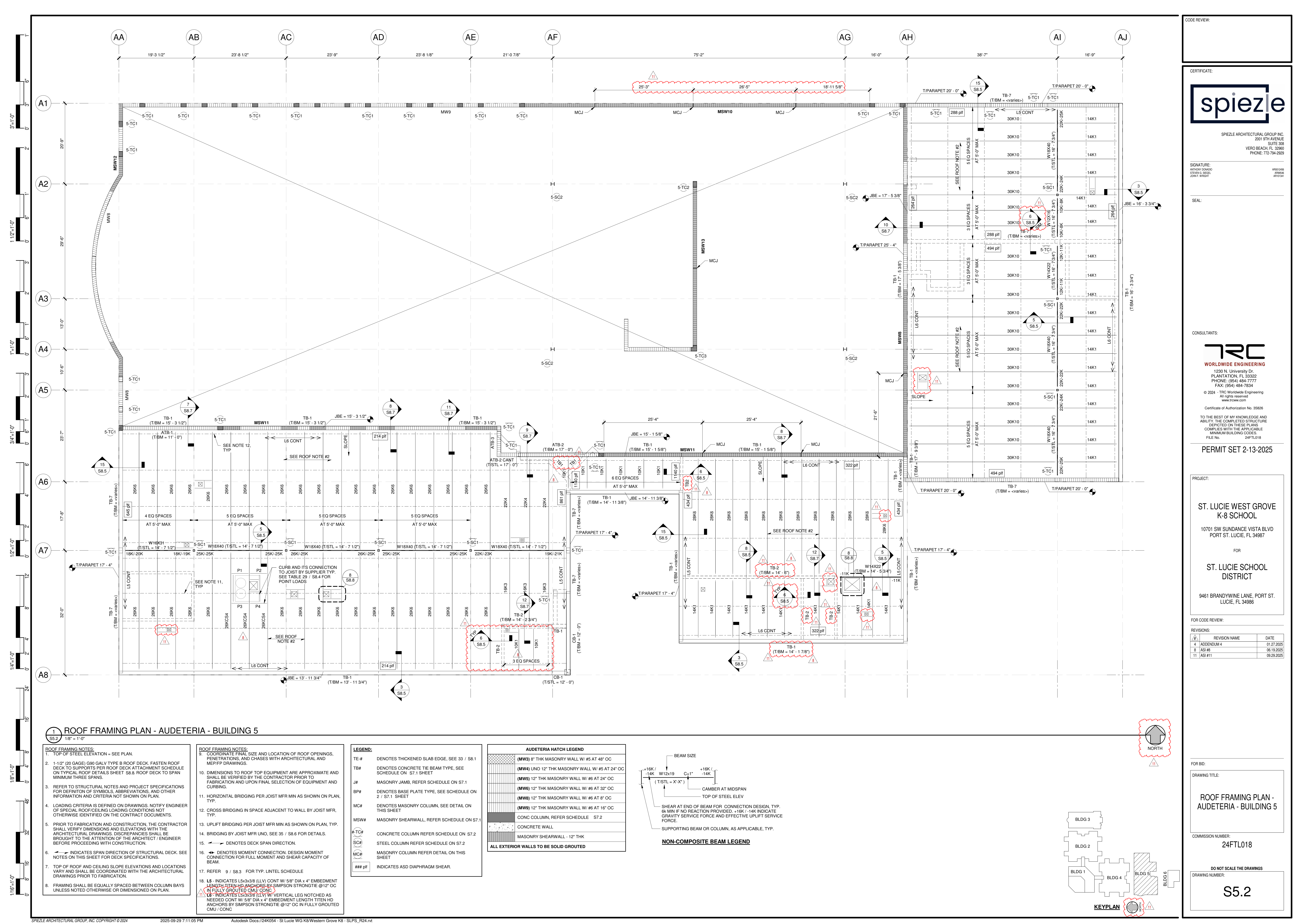
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#	REVISION NAME	DATE
4	ADDENDUM 4	01/27/2025
9	ASI #9	06/19/2025
11	ASI #11	09/29/2025

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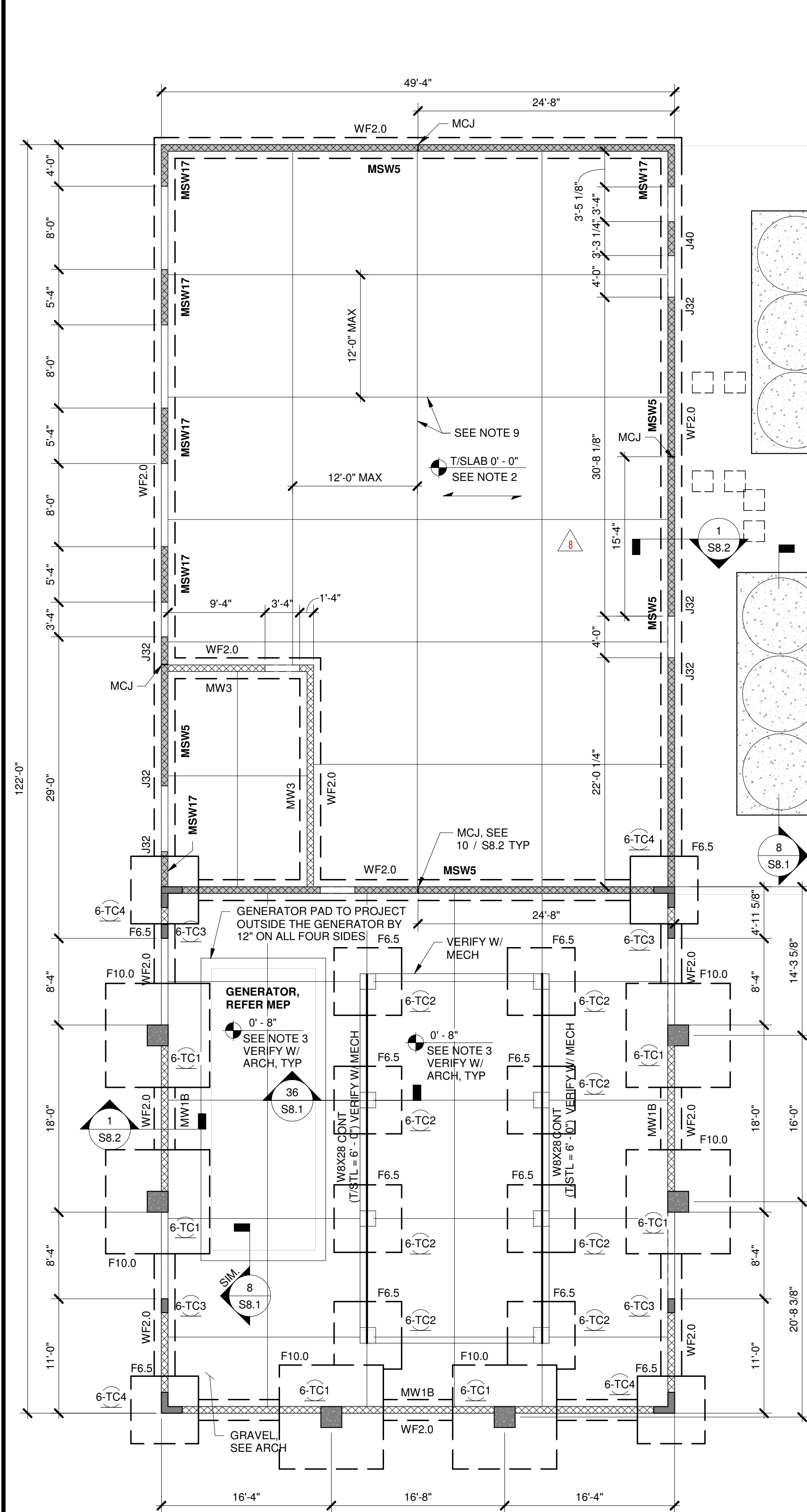
**ROOF FRAMING PLAN -
AUDETERIA - BUILDING 5**

COMMISSION NUMBER:
24FTL018

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DRAWING NUMBER:

S5.2



1 FOUNDATION/FIRST FLOOR- CHILLER - BUILDING 6
1/8" = 1'-0"



9

1/16" = 1'-0"

1/8" = 1'-0"

1/4" = 1'-0"

1/2" = 1'-0"

3/4" = 1'-0"

1" = 1'-0"

1 1/2" = 1'-0"

2" = 1'-0"

3" = 1'-0"

4" = 1'-0"

6" = 1'-0"

8" = 1'-0"

12" = 1'-0"

16" = 1'-0"

24" = 1'-0"

36" = 1'-0"

48" = 1'-0"

60" = 1'-0"

72" = 1'-0"

84" = 1'-0"

96" = 1'-0"

108" = 1'-0"

120" = 1'-0"

132" = 1'-0"

144" = 1'-0"

156" = 1'-0"

168" = 1'-0"

180" = 1'-0"

192" = 1'-0"

204" = 1'-0"

216" = 1'-0"

228" = 1'-0"

240" = 1'-0"

252" = 1'-0"

264" = 1'-0"

276" = 1'-0"

288" = 1'-0"

300" = 1'-0"

312" = 1'-0"

324" = 1'-0"

336" = 1'-0"

348" = 1'-0"

360" = 1'-0"

372" = 1'-0"

384" = 1'-0"

396" = 1'-0"

408" = 1'-0"

420" = 1'-0"

432" = 1'-0"

444" = 1'-0"

456" = 1'-0"

468" = 1'-0"

480" = 1'-0"

492" = 1'-0"

504" = 1'-0"

516" = 1'-0"

528" = 1'-0"

540" = 1'-0"

552" = 1'-0"

564" = 1'-0"

576" = 1'-0"

588" = 1'-0"

600" = 1'-0"

612" = 1'-0"

624" = 1'-0"

636" = 1'-0"

648" = 1'-0"

660" = 1'-0"

672" = 1'-0"

684" = 1'-0"

696" = 1'-0"

708" = 1'-0"

720" = 1'-0"

732" = 1'-0"

744" = 1'-0"

756" = 1'-0"

768" = 1'-0"

780" = 1'-0"

792" = 1'-0"

804" = 1'-0"

816" = 1'-0"

828" = 1'-0"

840" = 1'-0"

852" = 1'-0"

864" = 1'-0"

876" = 1'-0"

888" = 1'-0"

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924" = 1'-0"

936" = 1'-0"

948" = 1'-0"

960" = 1'-0"

972" = 1'-0"

984" = 1'-0"

996" = 1'-0"

1008" = 1'-0"

1020" = 1'-0"

1032" = 1'-0"

1044" = 1'-0"

1056" = 1'-0"

1068" = 1'-0"

1080" = 1'-0"

1092" = 1'-0"

1104" = 1'-0"

1116" = 1'-0"

1128" = 1'-0"

1140" = 1'-0"

1152" = 1'-0"

1164" = 1'-0"

1176" = 1'-0"

1188" = 1'-0"

1200" = 1'-0"

1212" = 1'-0"

1224" = 1'-0"

1236" = 1'-0"

1248" = 1'-0"

1260" = 1'-0"

1272" = 1'-0"

1284" = 1'-0"

1296" = 1'-0"

1308" = 1'-0"

1320" = 1'-0"

1332" = 1'-0"

1344" = 1'-0"

1356" = 1'-0"

1368" = 1'-0"

1380" = 1'-0"

1392" = 1'-0"

1404" = 1'-0"

1416" = 1'-0"

1428" = 1'-0"

1440" = 1'-0"

1452" = 1'-0"

1464" = 1'-0"

1476" = 1'-0"

1488" = 1'-0"

1500" = 1'-0"

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1560" = 1'-0"

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1908" = 1'-0"

1920" = 1'-0"

1932" = 1'-0"

1944" = 1'-0"

1956" = 1'-0"

1968" = 1'-0"

1980" = 1'-0"

1992" = 1'-0"

2004" = 1'-0"

2016" = 1'-0"

2028" = 1'-0"

2040" = 1'-0"

2052" = 1'-0"

2064" = 1'-0"

2076" = 1'-0"

2088" = 1'-0"

2100" = 1'-0"

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2412" = 1'-0"

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2436" = 1'-0"

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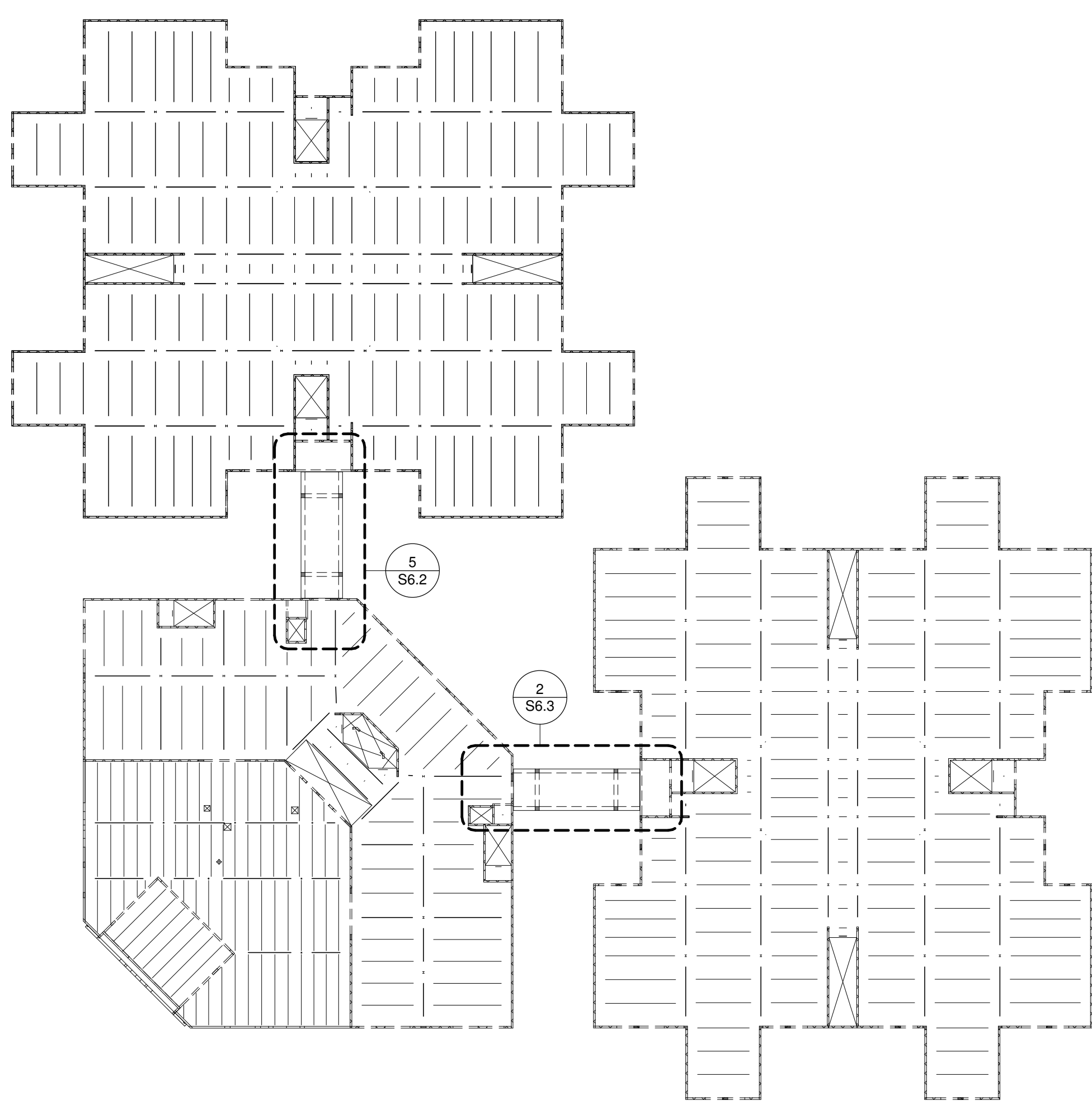
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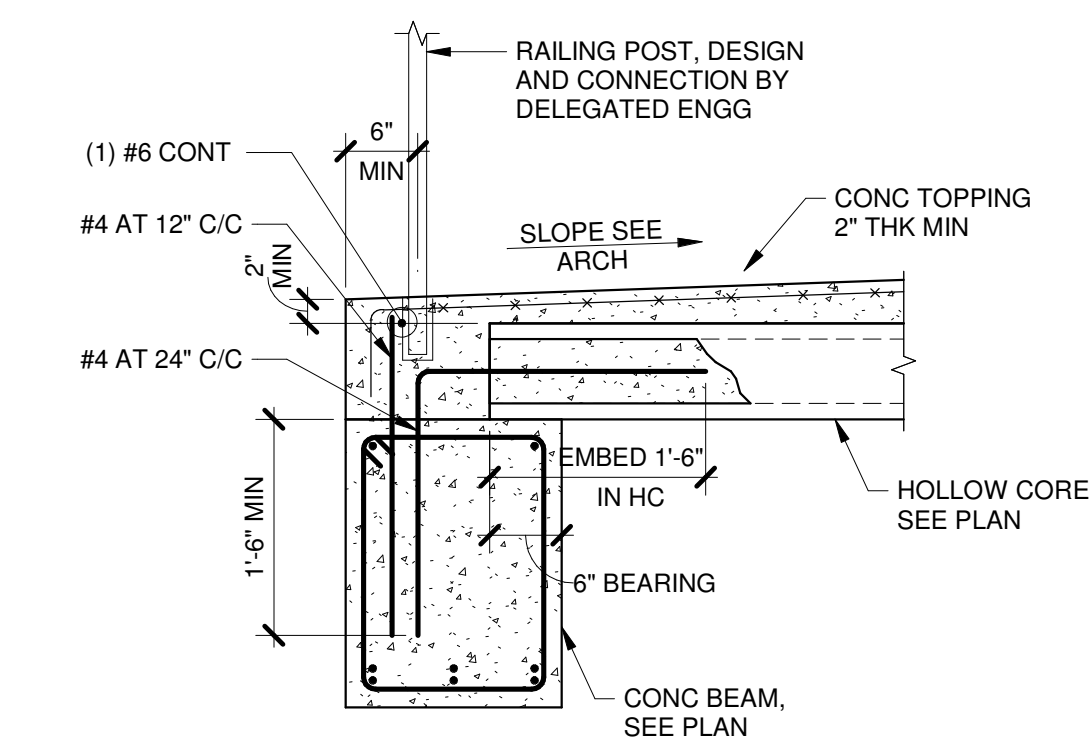
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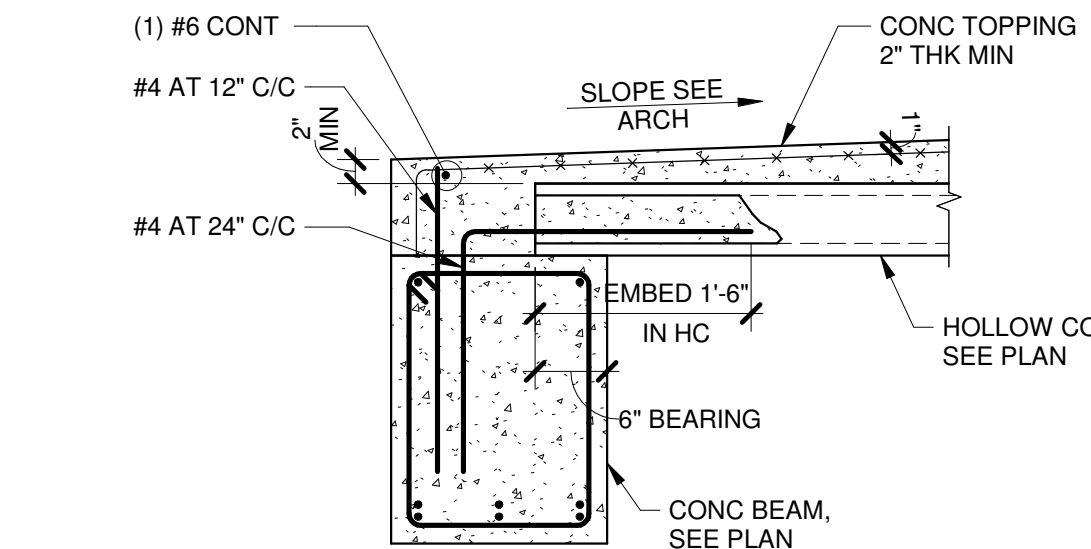
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3096" = 1'-0"

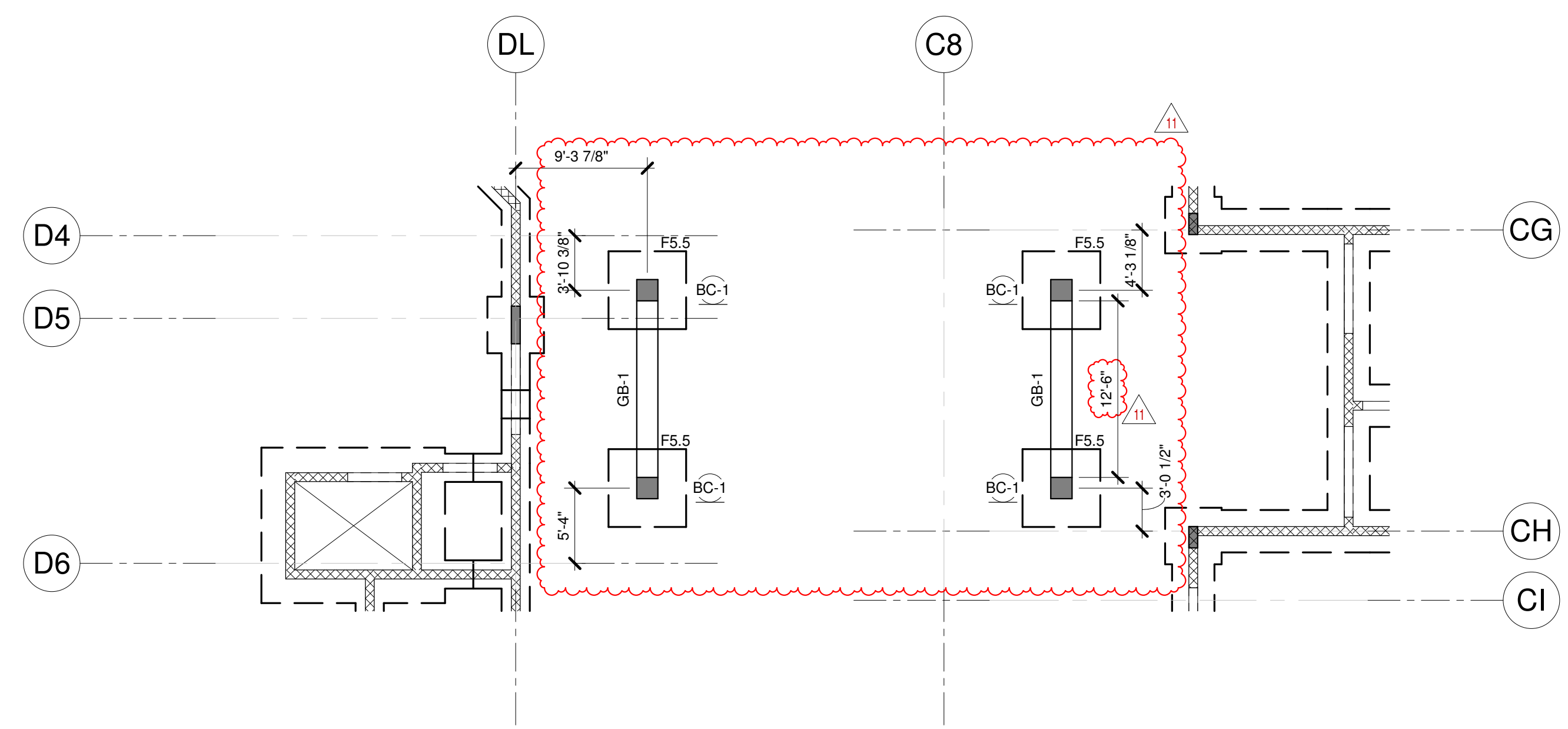




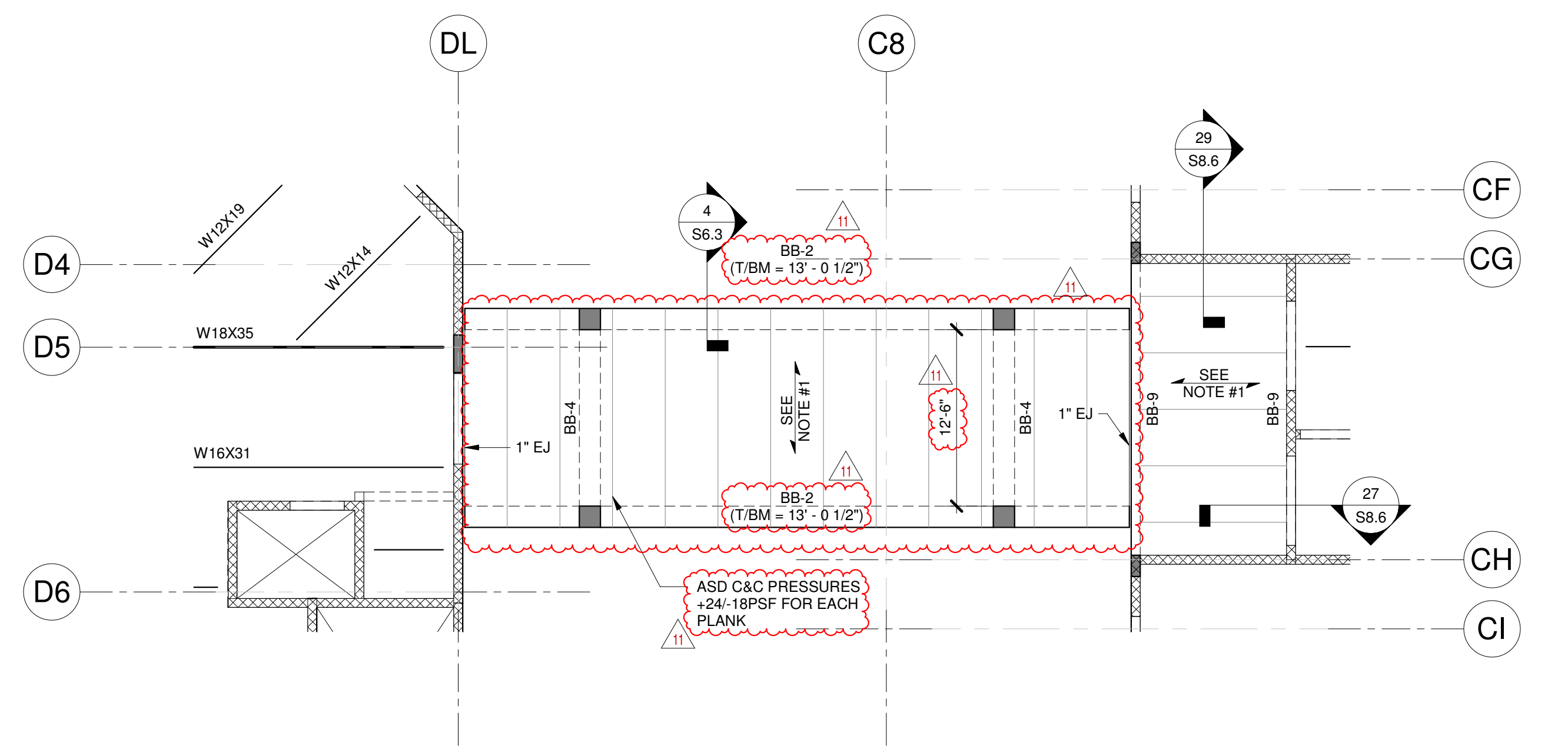
4 SECTION
S6.3 $3/4" = 1'-0"$



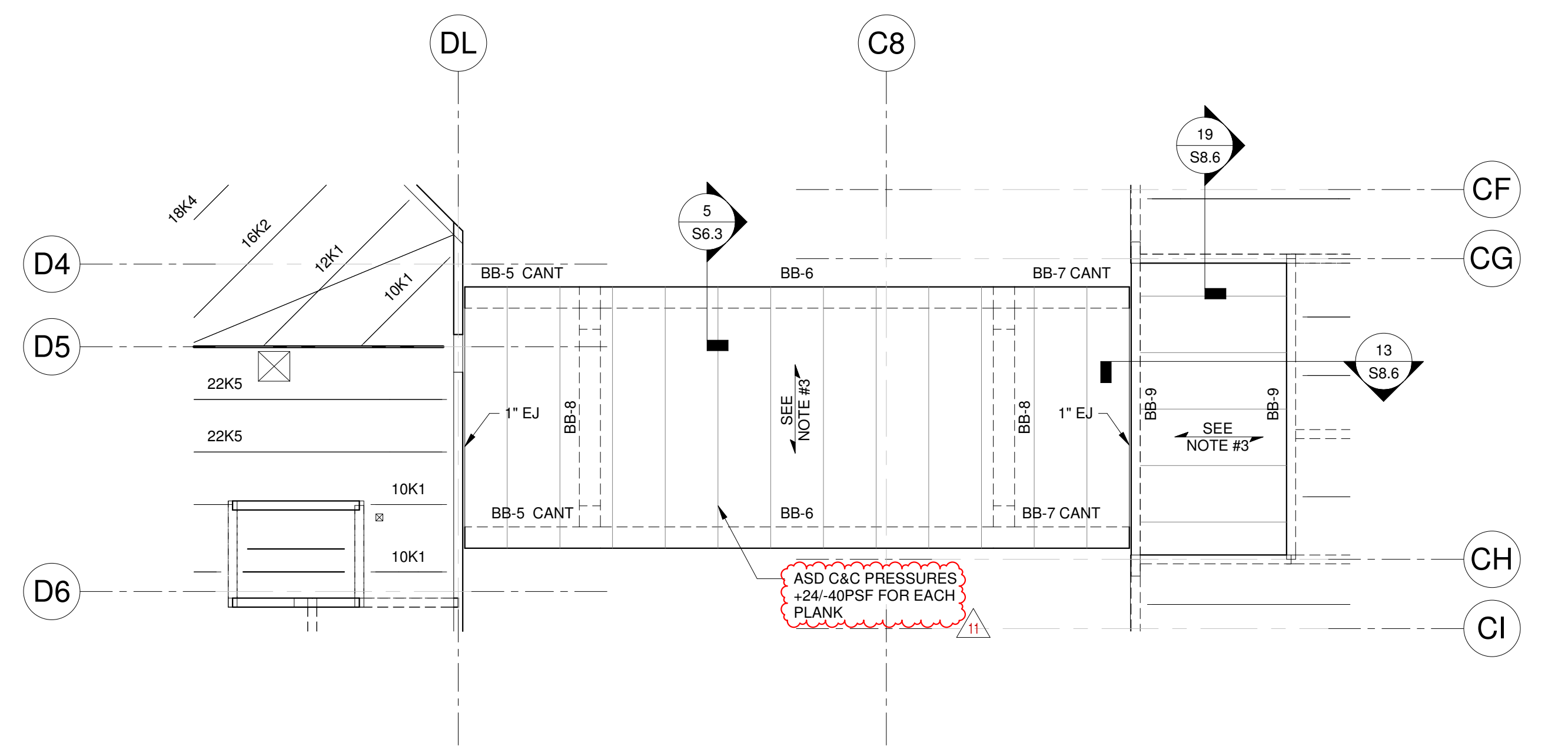
5 SECTION
S6.3 $3/4" = 1'-0"$



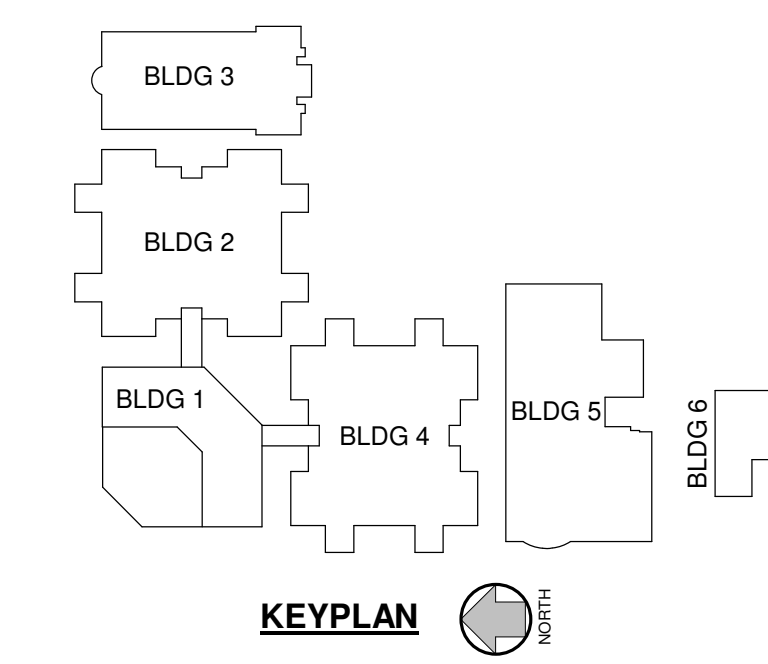
1 BRIDGE-2- FOUNDATION PLAN
S6.3 1/8" = 1'-0"



2 BRIDGE-2- LVL 1 FRAMING PLAN
S6.3 1/8" = 1'-0"



3 BRIDGE-2- ROOF FRAMING PLAN
S6.3 1/8" = 1'-0"



CODE REVIEW:

CERTIFICATE:



CHITECTURAL GROUP INC.
2001 9TH AVENUE
SUITE 308
VERO BEACH, FL 32960
PHONE: 772-794-2929

SIGNATURE:
ANTHONY DONADIO
STEVEN G. SIEGEL
JOHN F. WRIGHT

AR0012456
AR002646
AR001341

SEAL:

CONSULTANTS:



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TO THE BEST OF MY KNOWLEDGE AND
ABILITY, THE COMPLETED STRUCTURE
DEPICTED ON THESE PLANS
COMPLIES WITH THE APPLICABLE
MINIMUM BUILDING CODES.

FILE No. 24FTL018

PERMIT SET 2-13-2025

PROJECT:

ST. LUCIE WEST GROVE
K-8 SCHOOL

10701 SW SUNDANCE VISTA BLVD
PORT ST LUCIE FL 34987

FOR

CIE SCHOOL
STRICT

9461 BRANDYWINE LANE, PORT ST.
LUCIE, FL 34086

FOR CODE REVIEW:

REVISIONS:

#	REVISION NAME	DATE
11	ASI #11	09.29.2025

FOR BID:

DRAWING TITLE:

BRIDGE OVERALL PLAN

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Journal of Internal Medicine 260: 397–408

24FTL018

DO NOT SCALE THE DRAWINGS

DRAWING NUMBER:

S6.3

3'0"=1'-0"
1 1/2"=1'-0"
1"=1'-0"
3/4"=1'-0"
1/2"=1'-0"
1/4"=1'-0"
1/8"=1'-0"
1/16"=1'-0"

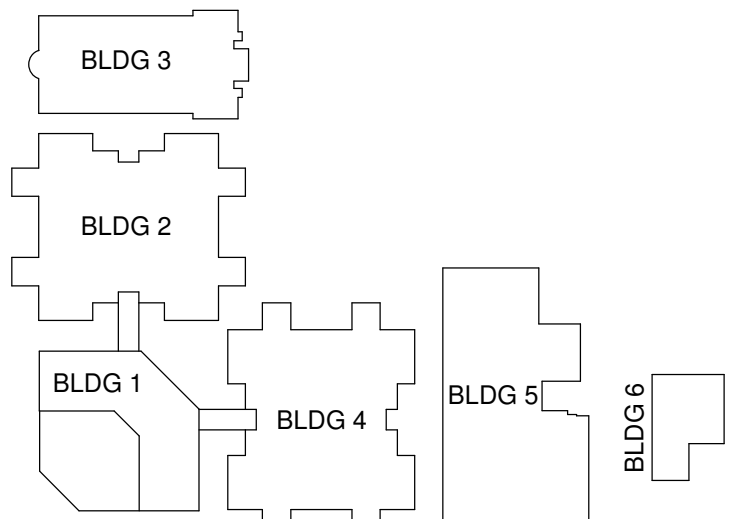
WALKWAY STRUCTURE AND FOUNDATION TO BE DESIGNED BY SUPPLIER'S DELEGATED ENGINEER.TYPICAL FOR ALL WALKWAY

WALKWAY STRUCTURE AND FOUNDATION TO BE DESIGNED BY SUPPLIER'S DELEGATED ENGINEER.TYPICAL FOR ALL WALKWAY

WALKWAY STRUCTURE AND FOUNDATION TO BE DESIGNED BY SUPPLIER'S DELEGATED ENGINEER.TYPICAL FOR ALL WALKWAY

SOLID GROUT CELLS AT CONNECTIONS. CANOPY DESIGN AND ITS CONNECTIONS TO THE BUILDINGS BY DELEGATED ENGINEER. TYP

1 WALKWAY CANOPY OVERALL PLAN
S6.4 3/64" = 1'-0"



CODE REVIEW:

CERTIFICATE:

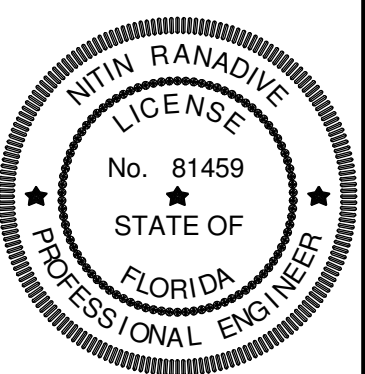


SPIEZZE ARCHITECTURAL GROUP INC.
2001 9TH AVENUE
SUITE 308
VERO BEACH, FL 32960
PHONE: 772-794-2823

SIGNATURE:
MICHAEL DONADO
STEVEN G. RESEL
JOHN T. BRIDGT

APPROVALS
APPROVALS
APPROVALS

SEAL:



This item has been electronically signed and sealed by Nitin Ranadive, PE on the date adjacent to the seal.

Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

CONSULTANTS:



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FILE NO. 24FTL018

PERMIT SET 2-13-2025

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PORT ST. LUCIE, FL 34987

FOR

ST. LUCIE SCHOOL
DISTRICT

9461 BRANDYWINE LANE, PORT ST.
LUCIE, FL 34986

FOR CODE REVIEW:

REVISIONS:

REV.	REVISION NAME	DATE
------	---------------	------

FOR BID:

DRAWING TITLE:

WALKWAY CANOPY PLAN

COMMISSION NUMBER:

24FTL018

DO NOT SCALE THE DRAWINGS

DRAWING NUMBER:

S6.4



MASONRY SHERT WALL (MSW) SCHEDULE		
WALL TAG	VERT. REINF.	NO. OF CHORD CELLS AT EACH END
MSW1 (8")	#5 AT 24" OC	(1) #5
MSW2 (8")	#5 AT 40" OC	(3) #5
MSW3 (8")	#5 AT 24" OC	(2) #5
MSW4 (8")	#5 AT 24" OC	(5) #5
MSW5 (8")	#5 AT 24" OC	(1) #5
MSW6 (8")	#5 AT 24" OC	(3) #5
MSW7 (8")	#5 AT 24" OC	(2) #5
MSW8 (12")	#5 AT 24" OC	(3) #5
MSW9 (12")	#5 AT 24" OC	(2) #5
MSW10 (12")	#6 AT 16" OC	(2) #6
MSW11 (12")	#6 AT 32" OC	(3) #6
MSW12 (12")	#6 AT 8" OC	(5) #8
MSW13 (12")	#5 AT 24" OC	(5) #6
MSW14 (12")	#6 AT 24" OC	(2) #6
MSW15 (12")	#6 AT 32" OC	(1) #6
MSW16 (12")	#6 AT 24" OC	(1) #6
MSW17 (8")	#5 AT 8" OC	(1) #5

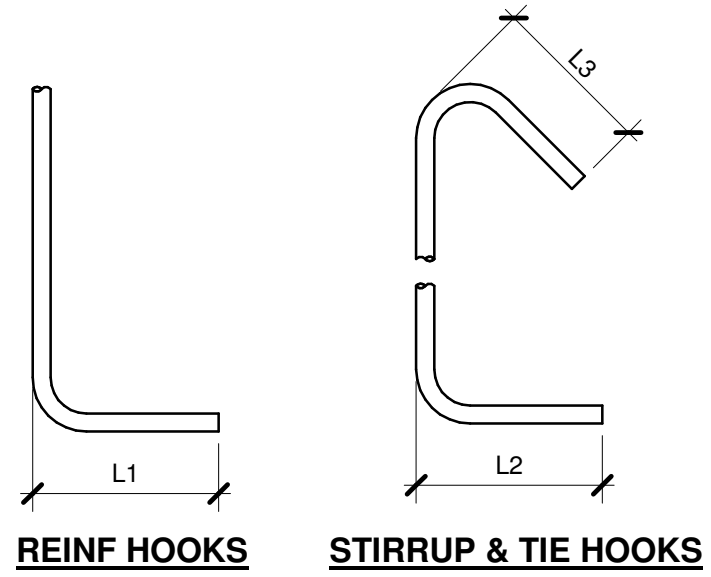
CONCRETE BEAM SCHEDULE									
MARK	SIZE WxD (IN)	BOTTOM REINFORCING	TOP REINFORCING	W' (# of Bars EF) REINFORCING	C' REINFORCING	E' REINFORCING	STIRRUP S1	STIRRUP S2	COMMENTS
ATB-1	12 x 36	(3) #9 + (3) #9*	(3) #9	-	-	-	2L - #4 AT 6" OC	2L - #4 AT 12" OC	* SECOND LAYER
ATB-2	12 x 36	(3) #9 + (3) #9*	(3) #9 + (3) #9*	-	-	-	2L - #4 AT 6" OC	2L - #4 AT 12" OC	* SECOND LAYER
ATB-2 CANT	12 x 36	(3) #9 + (3) #9*	(3) #9 + (3) #9*	-	-	-	2L - #5 AT 6" OC	2L - #5 AT 5" OC	
ATB-3	12 x 24	(3) #9	(3) #9	-	-	-	2L - #4 AT 18" OC	2L - #4 AT 18" OC	
ATB-4	8 x 24	(2) #6 + (2) #6*	(2) #6	-	-	-	2L - #4 AT 8" OC	2L - #4 AT 8" OC	* SECOND LAYER
OB-1	12 x 24	(3) #9	(3) #9 + (3) #9*	-	-	-	2L - #5 AT 12" OC	2L - #5 AT 5" OC	
TB-1	12 x 16	(3) #6	(3) #6	-	-	-	#3 AT 8" OC	#3 AT 8" OC	HOOK TOP AND BOTTOM BARS
TB-2	8 x 16	(2) #6	(2) #6	-	-	-	#3 AT 8" OC	#3 AT 8" OC	HOOK TOP AND BOTTOM BARS
TB-3	16 x 16	(3) #6	(3) #6	-	-	-	#3 AT 6" OC	#3 AT 12" OC	(1) #5 FACE REIN ON EA FACE. ALL LONG REIN TO BE CONT OR PROVIDE CLASS B STAGGERED SPLICE. HOOK TOP AND BOTTOM BARS
TB-4	8 x 24	(2) #6	(2) #6	-	-	-	#3 AT 8" OC	#3 AT 8" OC	HOOK TOP AND BOTTOM BARS
TB-5	12 x 40	(3) #6	(3) #6	-	-	-	#3 AT 6" OC	#3 AT 12" OC	HOOK TOP AND BOTTOM BARS
TB-6	44 x 16	(7) #6	(7) #6	-	-	-	#5 AT 6" OC	#5 AT 6" OC	HOOK TOP AND BOTTOM BARS
TB-7	12 x 24	(3) #6	(3) #6	-	-	-	#3 AT 6" OC	#3 AT 12" OC	<varies>

2 BASE PLATE SCHEDULE

3 STD HOOK LENGTHS

5 CONCRETE COLUMN OR TIE COLUMN DETAIL

4 CONCRETE COLUMN OR TIE COLUMN DETAIL



NOTES:

1. 'S' DENOTES SCHEDULED COLUMN TIE SPACING, SEE COLUMN SCHEDULE. 'S/2' DENOTES 1/2 THE SCHEDULED COLUMN TIE SPACING.
2. WHERE BEAMS FRAME FROM FOUR DIRECTIONS, TERMINATE TIES NO MORE THAN 3" BELOW THE LOWEST HORIZONTAL REINFORCEMENT IN THE SHALLOWEST BEAM.
3. ASSUME 1" ABOVE SLAB OFFSET FOR PT CONSTRUCTION WHERE NO BOTTOM BARS ARE PRESENT.

NOTES:

1. EMBEDMENT DEPTH DOES NOT APPLY TO BRACED FRAME COLUMNS OR MOMENT FRAME COLUMNS. SEE FRAME DETAILS FOR EMBEDMENT.
2. WELD DOES NOT APPLY TO BRACED FRAME COLUMNS OF MOMENT FRAME COLUMNS. SEE FRAME DETAILS FOR WELDS.
3. ANCHOR ROD EMBEDMENTS DO NOT APPLY TO ANCHOR RODS EMBEDDED INTO PIERS.
4. "X"= EDGE DISTANCE. SEE SCHEDULE.
5. SEE BASEPLATE SCHEDULE FOR ANCHOR ROD SIZES.

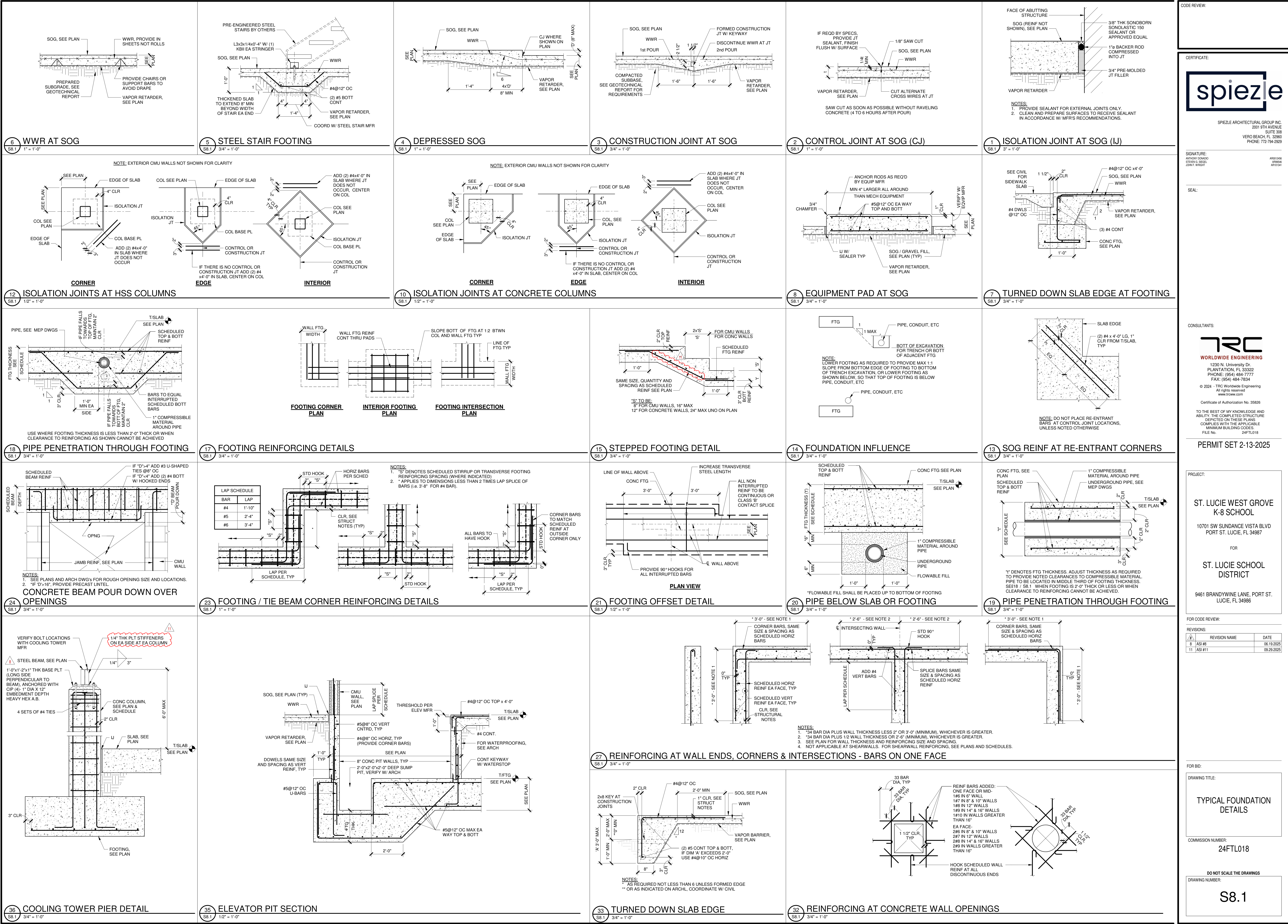


NOTES:

1. FOR CLEAR SPACING BETWEEN BARS $\leq db$ AND/OR CLEAR COVER $\leq db$, MULTIPLY BY 1.5.
2. FOR TOP BARS MULTIPLY BY 1.3
3. FOR EPOXY COATED BARS, IF SPECIFIED OR APPROVED AS AN ALTERNATE, MULTIPLY BY 1.3.
4. FOR MFMF BARS, IF SPECIFIED OR USED, USE GRADE 75 KSI VALUES.
5. WHERE MORE THAN ONE FACTOR APPLIES, PRODUCT OF ALL APPLICABLE FACTORS SHALL BE APPLIED.
6. IF DETAILER IS TO USE A DIFFERENT SCHEDULE, HE/SHE MUST SUBMIT A SEALED LETTER INDICATING THAT HIS/HER VALUES CORRESPOND TO CURRENT ACI 318 CODE.

6 CLASS 'B' SPLICE SCHEDULE

S7.1



CODE REVIEW:

CERTIFICATE:

spieze

SPIEZLE ARCHITECTURAL GROUP INC.
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9001045
A00044
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FILE NO.: 24FTL018

PERMIT SET 2-13-2025

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FOR

ST. LUCIE SCHOOL
DISTRICT
9461 BRANDYWINE LANE, PORT ST.
LUCIE, FL 34986

FOR CODE REVIEW:

REVISIONS:

#	REVISION NAME	DATE
8	ASI #8	06.19.2025
11	ASI #11	09.29.2025

FOR BID:

DRAWING TITLE:

TYPICAL FOUNDATION
DETAILS

COMMISSION NUMBER:

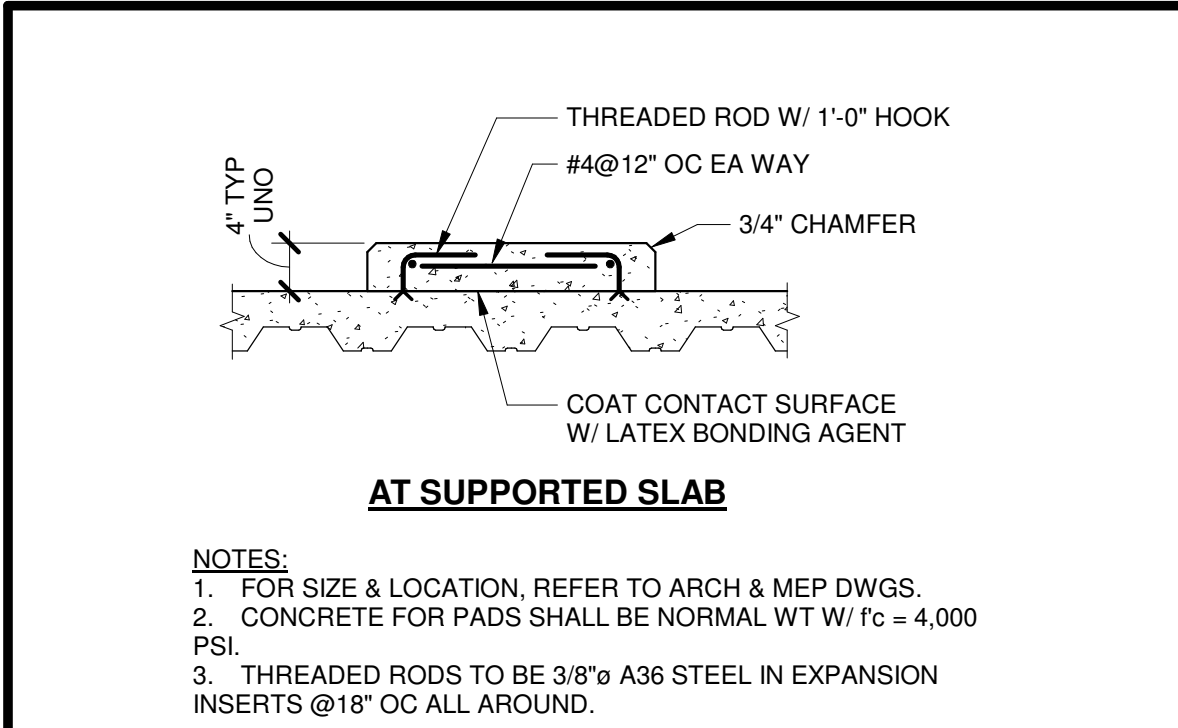
24FTL018

DO NOT SCALE THE DRAWINGS

DRAWING NUMBER:

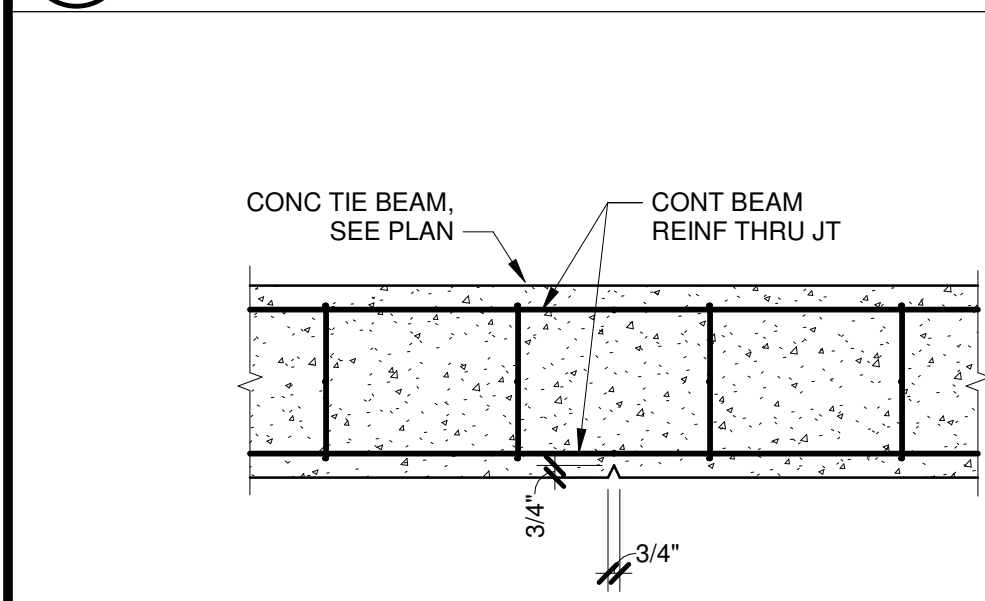
S8.1

THIS DRAWING IS FORMATTED TO BE PRINTED AT 30"x42"



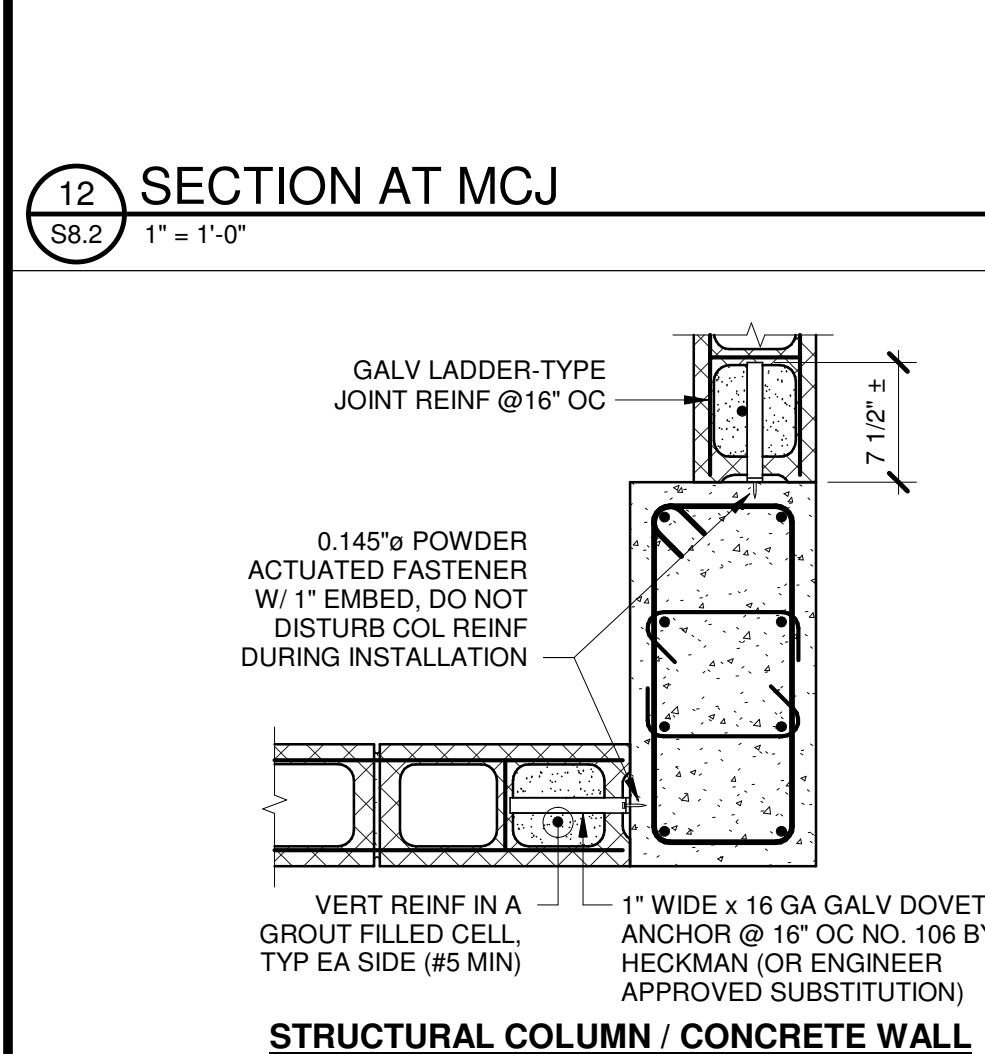
HOUSEKEEPING PAD AT SOG & ELEVATED SLAB

S8.2 3/4" = 1'-0"



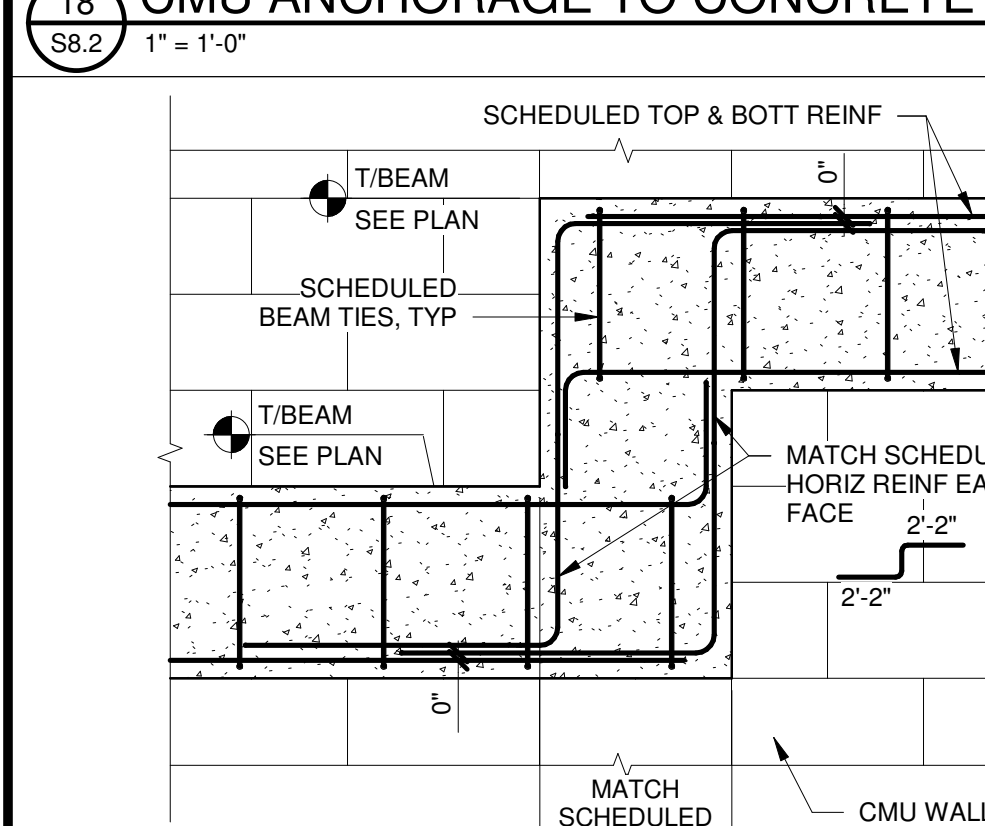
SECTION AT MCJ

S8.2 1" = 1'-0"



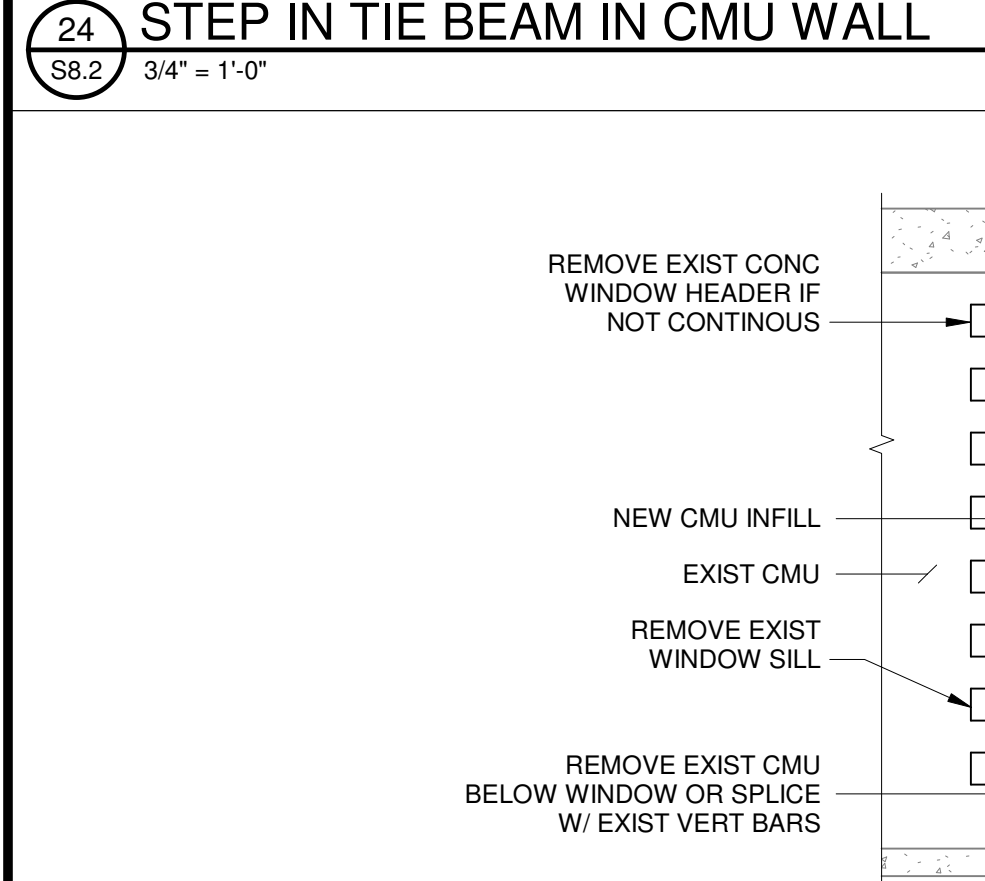
STRUCTURAL COLUMN / CONCRETE WALL

S8.2 1" = 1'-0"



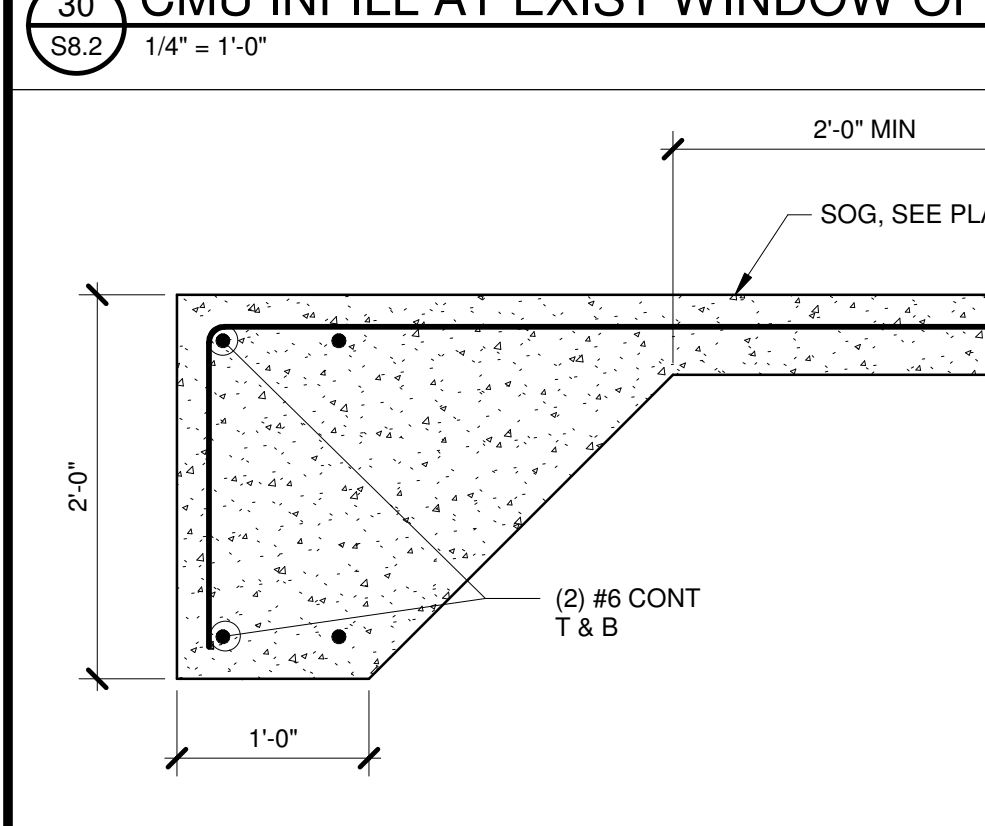
STEP IN TIE BEAM IN CMU WALL

S8.2 3/4" = 1'-0"



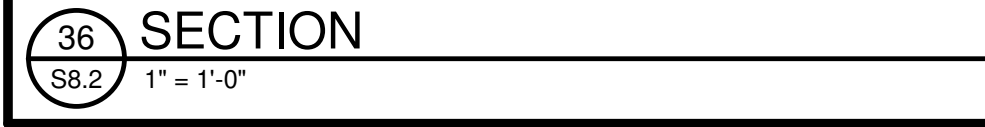
CMU INFILL AT EXIST WINDOW OPNG

S8.2 1/4" = 1'-0"



SECTION

S8.2 1" = 1'-0"



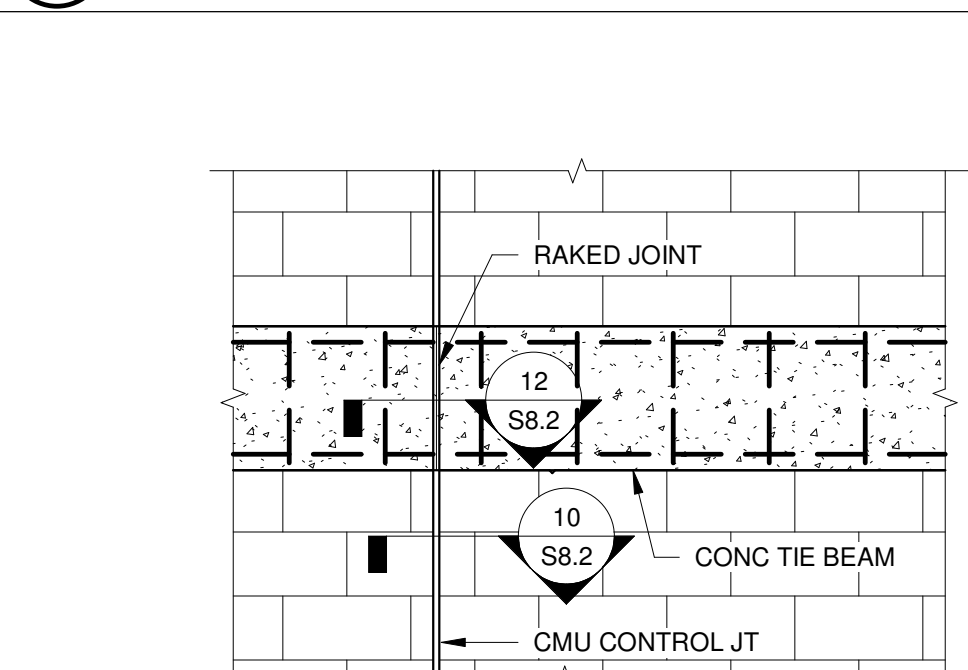
SECTION

S8.2 1" = 1'-0"

SCHEDULE		
WALL THICKNESS	BAR	LAP
8"	#4	1'-8"
8"	#5	2'-1"
8"	#6	3'-7"
8"	#7	4'-11"
12"	#4	1'-8"
12"	#5	2'-1"
12"	#6	3'-3"
12"	#7	3'-10"

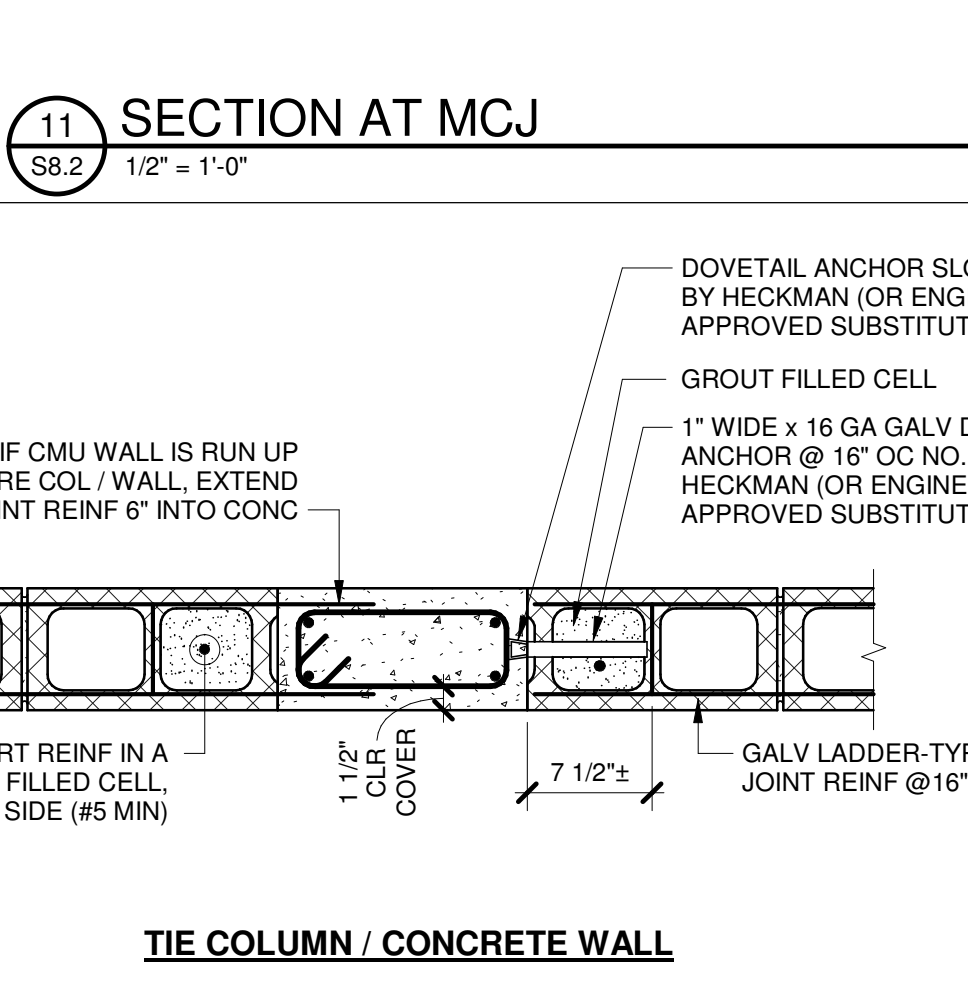
CMU VERTICAL REINFORCING LAP SCHEDULE

S8.2 3/4" = 1'-0"



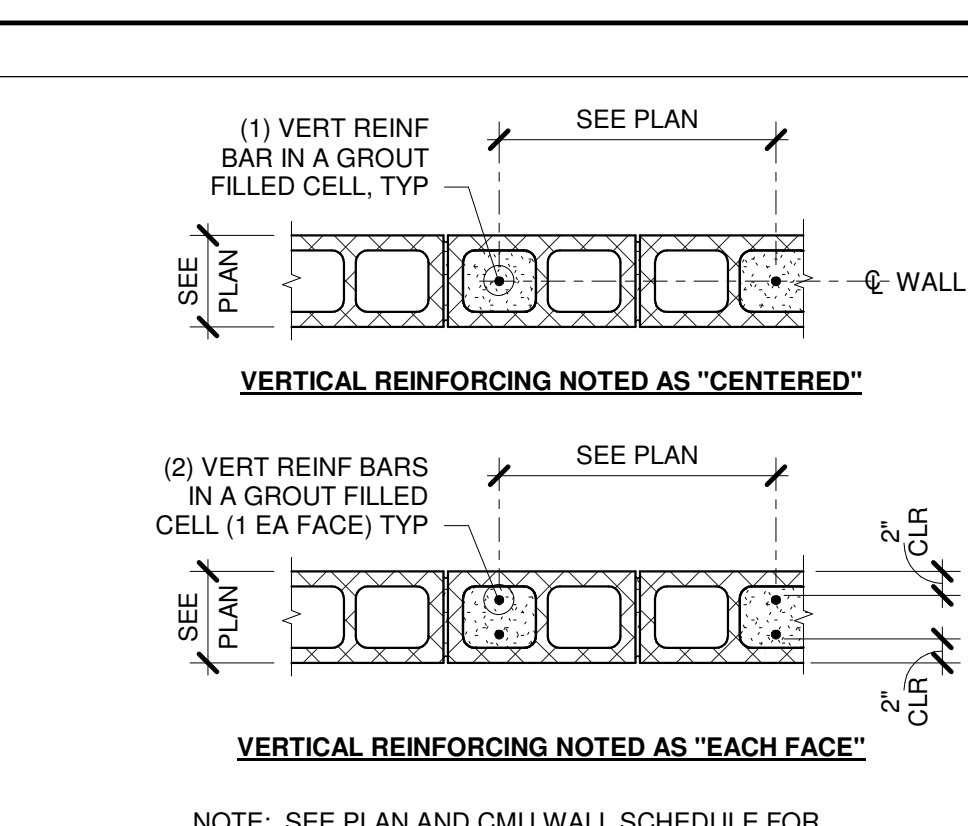
SECTION AT MCJ

S8.2 1/2" = 1'-0"



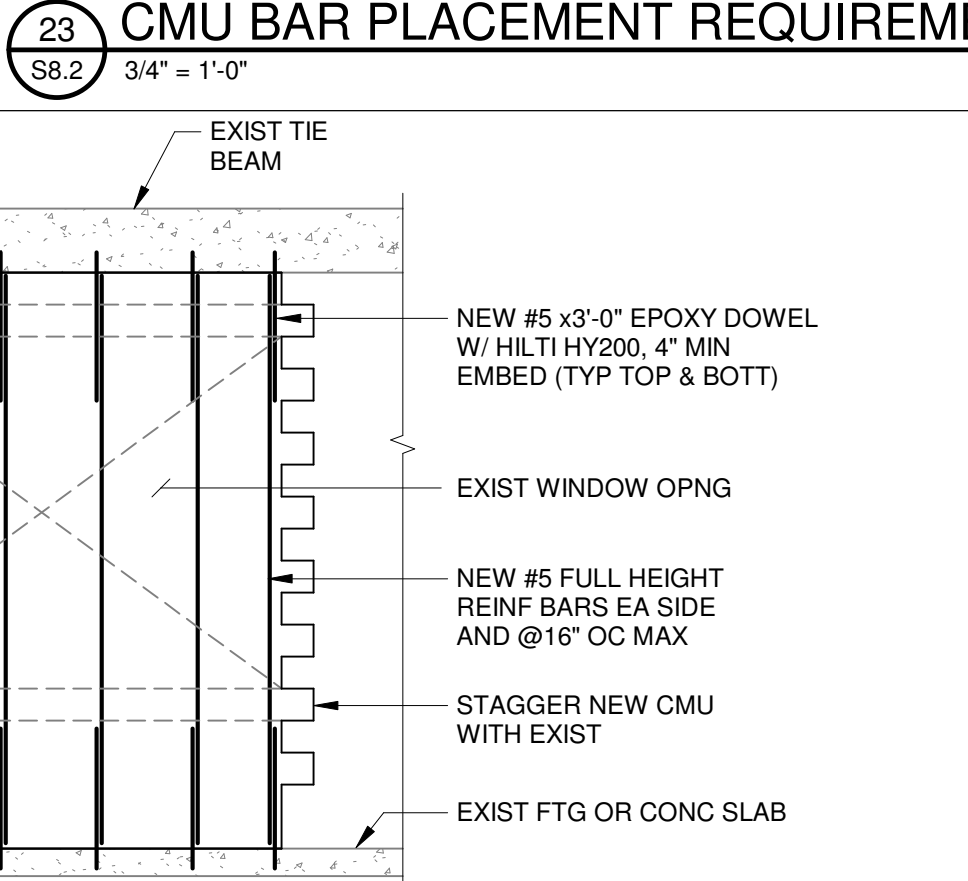
TIE COLUMN / CONCRETE WALL

S8.2 1" = 1'-0"



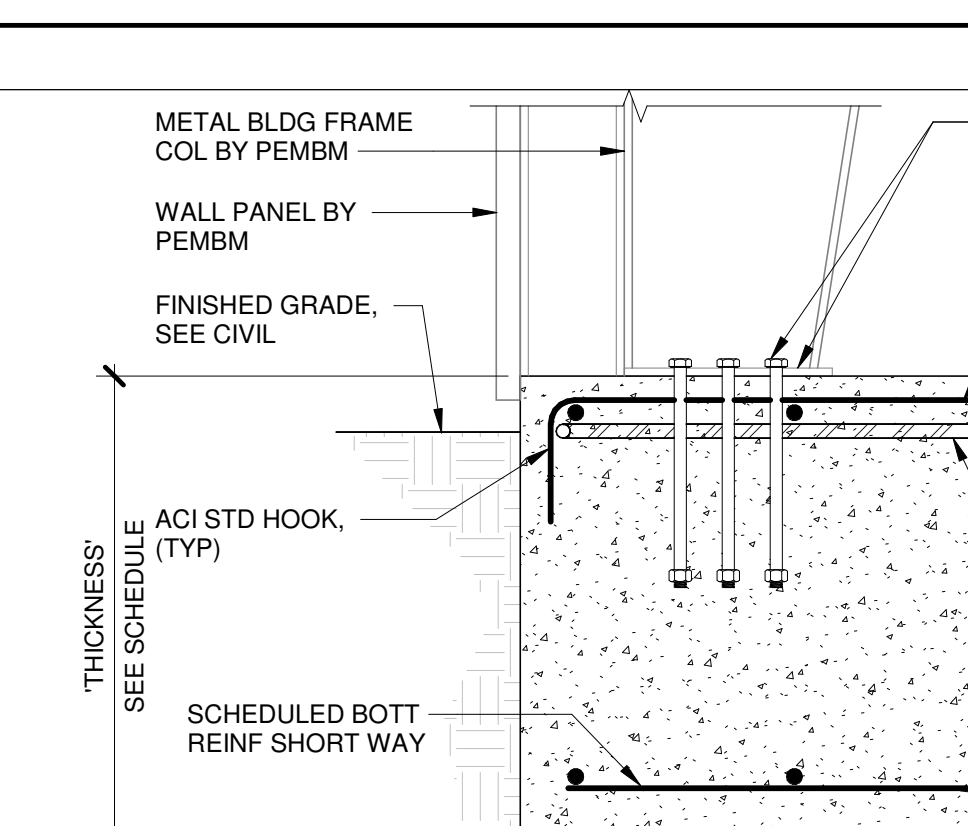
CMU BAR PLACEMENT REQUIREMENTS

S8.2 3/4" = 1'-0"



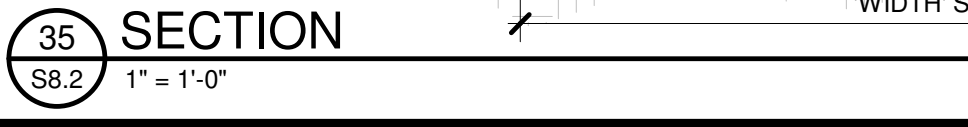
CMU ANCHORAGE TO CONCRETE WALL

S8.2 1" = 1'-0"



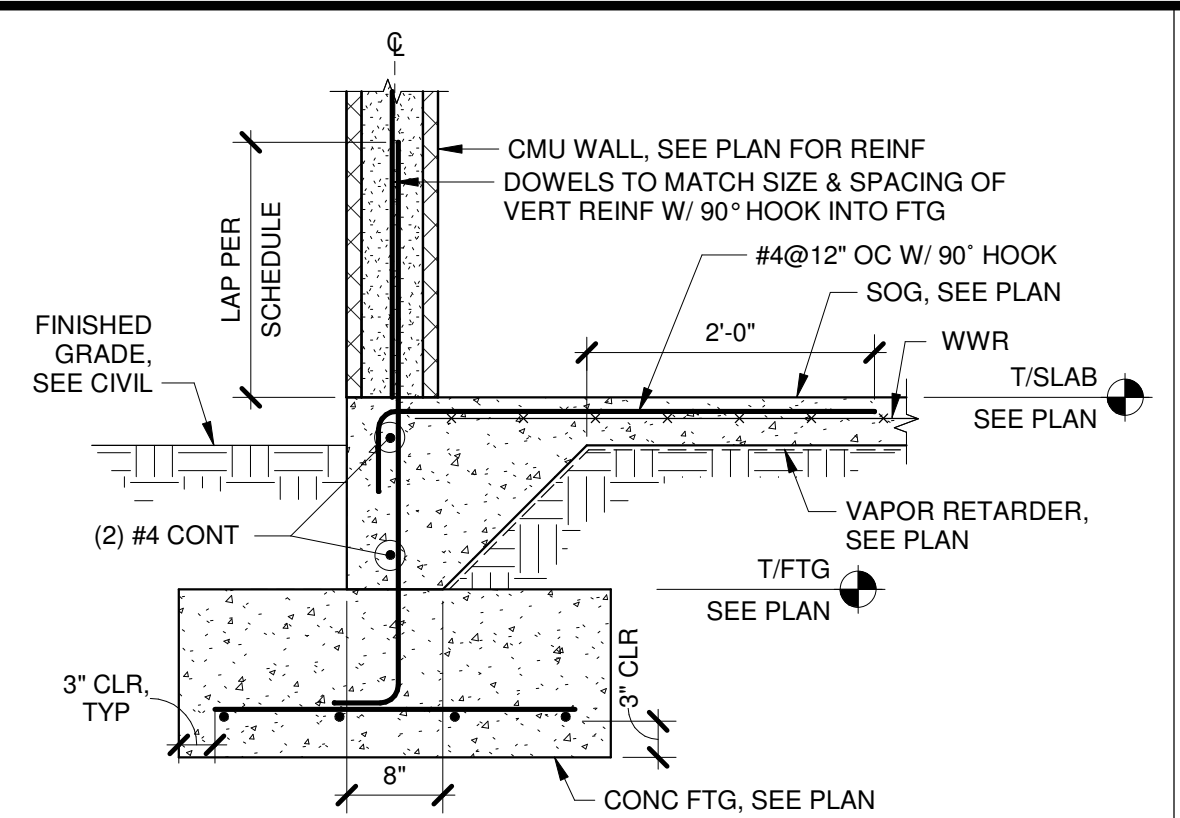
SECTION

S8.2 1" = 1'-0"



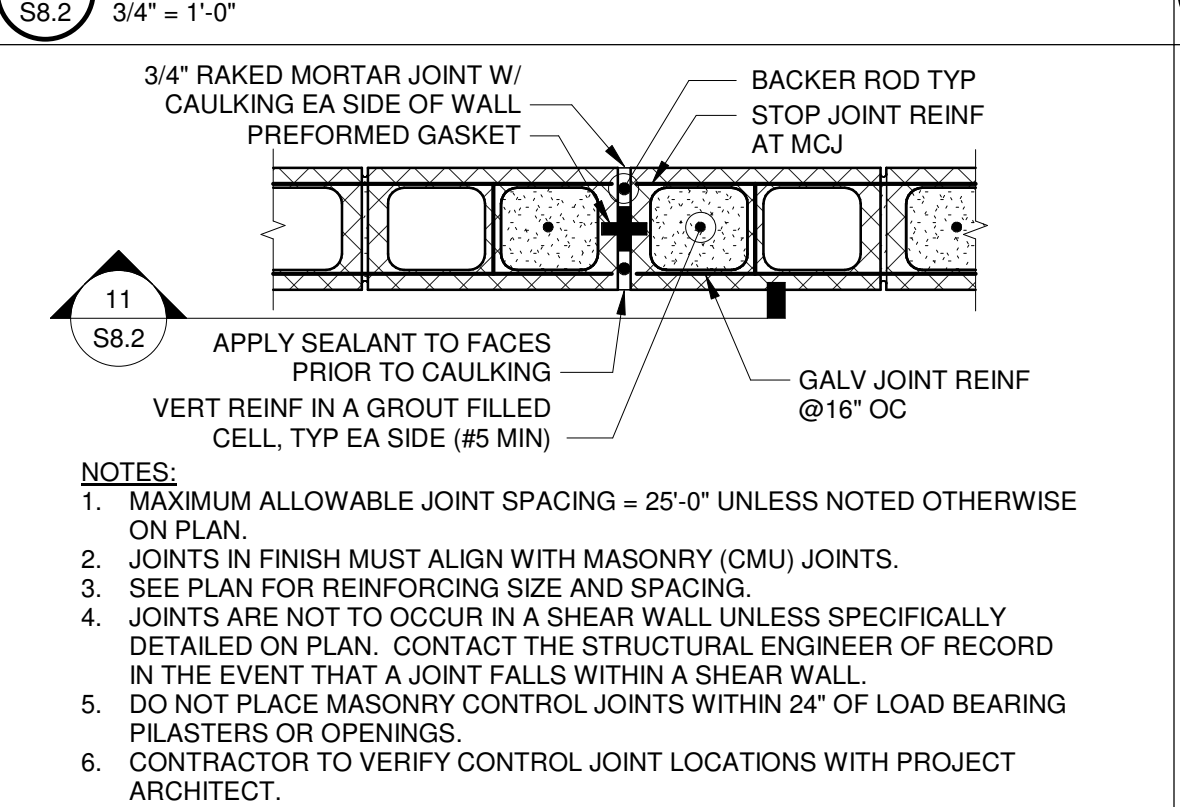
SECTION

S8.2 1" = 1'-0"



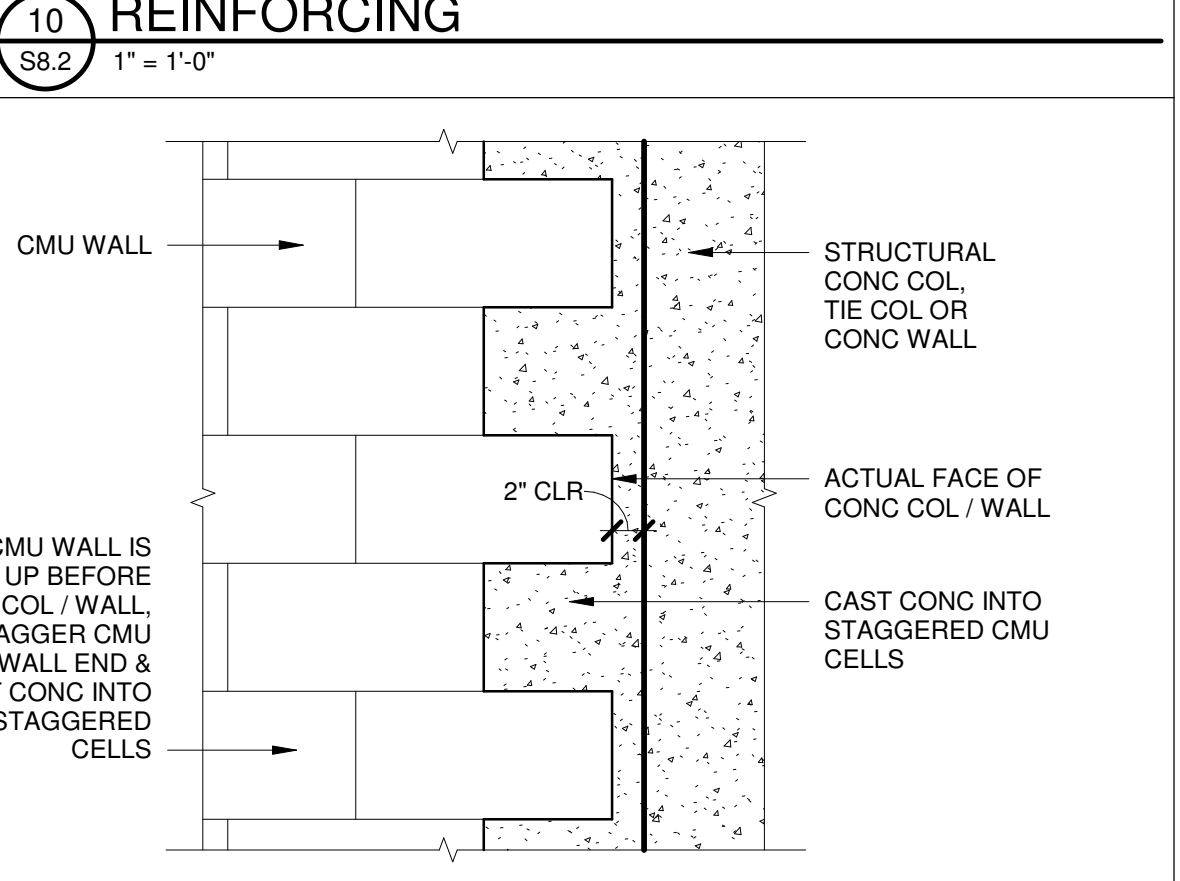
CMU AT CONCRETE POURDOWN

S8.2 3/4" = 1'-0"



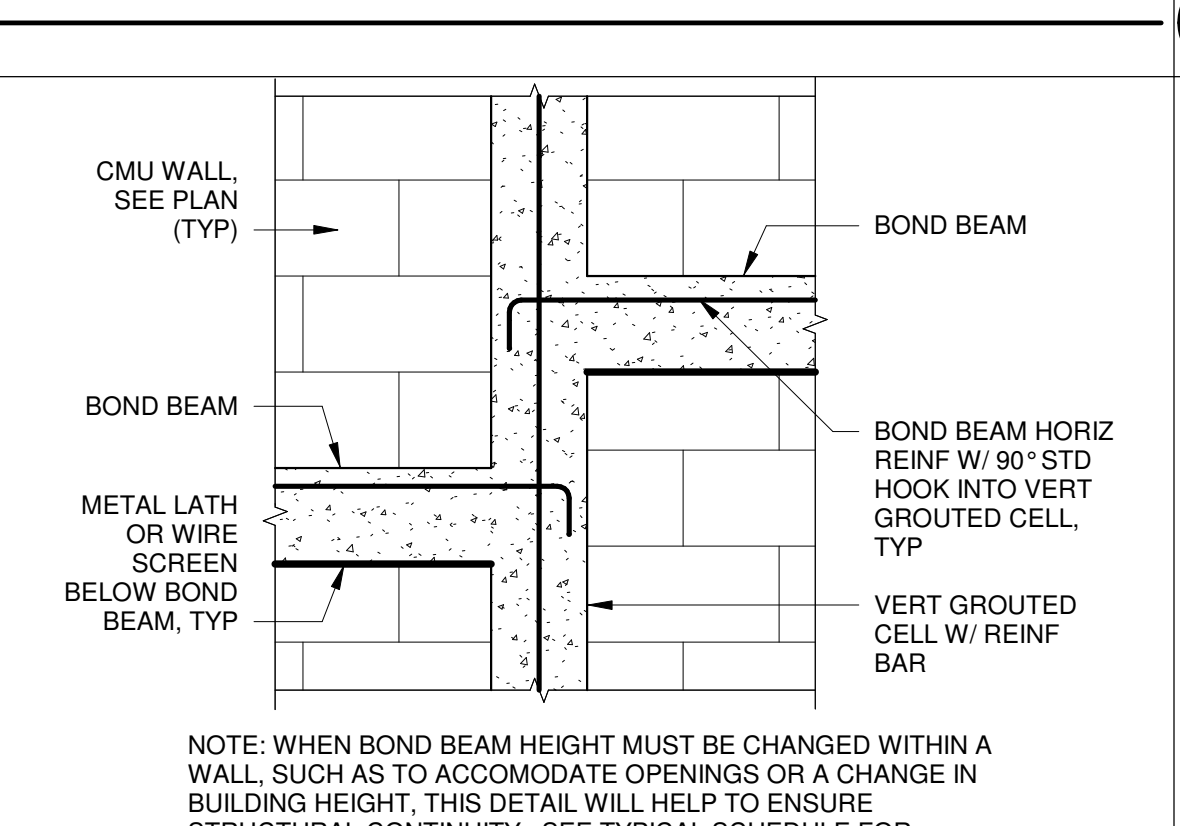
MASONRY CONTROL JOINT (MCJ) REINFORCING

S8.2 1" = 1'-0"



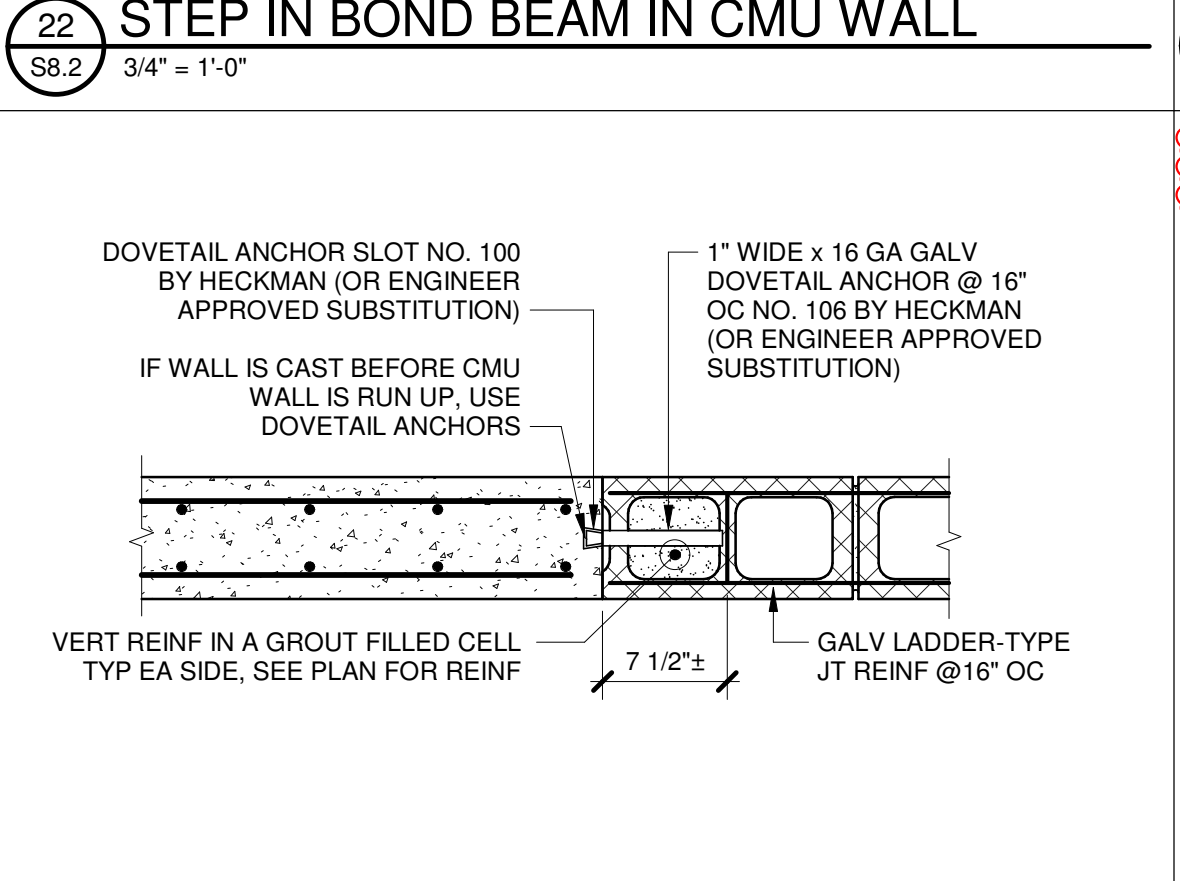
ALTERNATE CONNECTION

S8.2 1" = 1'-0"



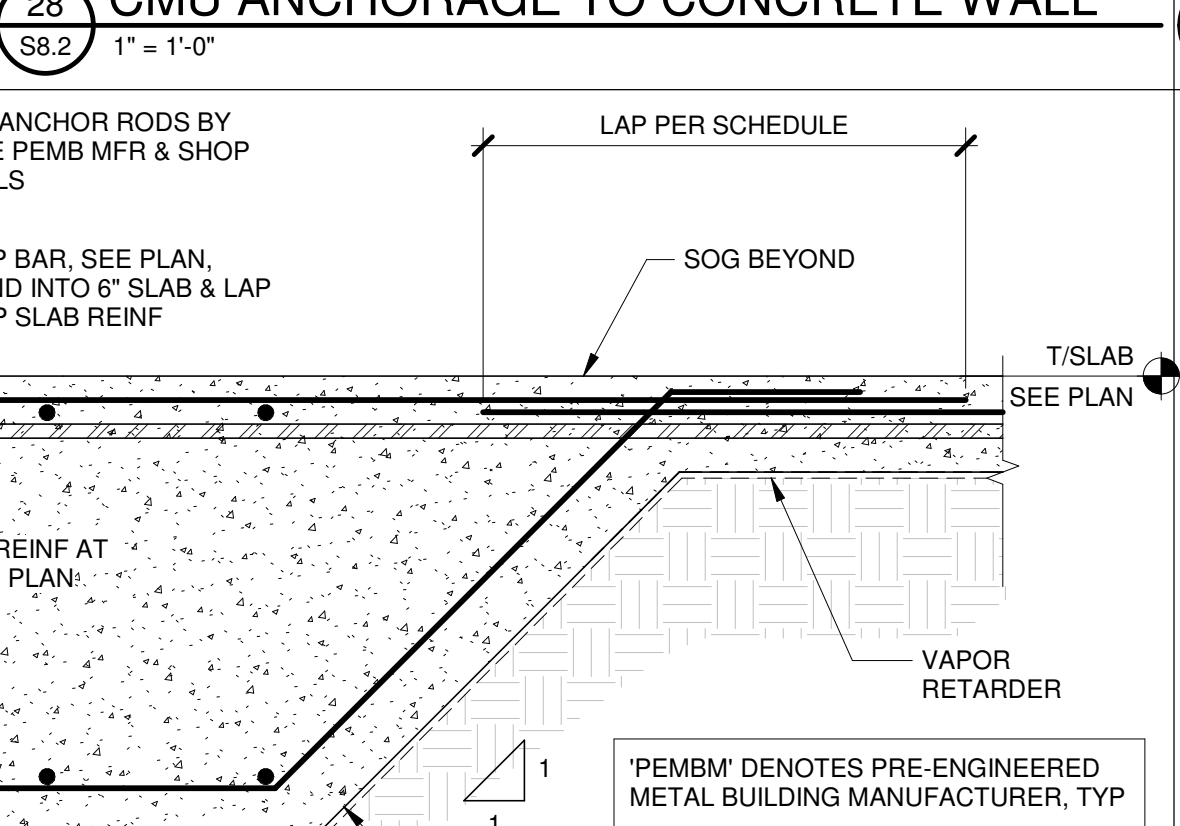
STEP IN BOND BEAM IN CMU WALL

S8.2 3/4" = 1'-0"



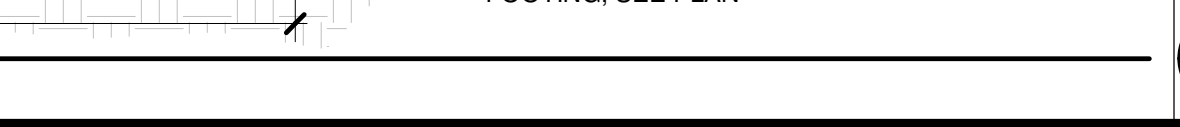
CMU ANCHORAGE TO CONCRETE WALL

S8.2 1" = 1'-0"



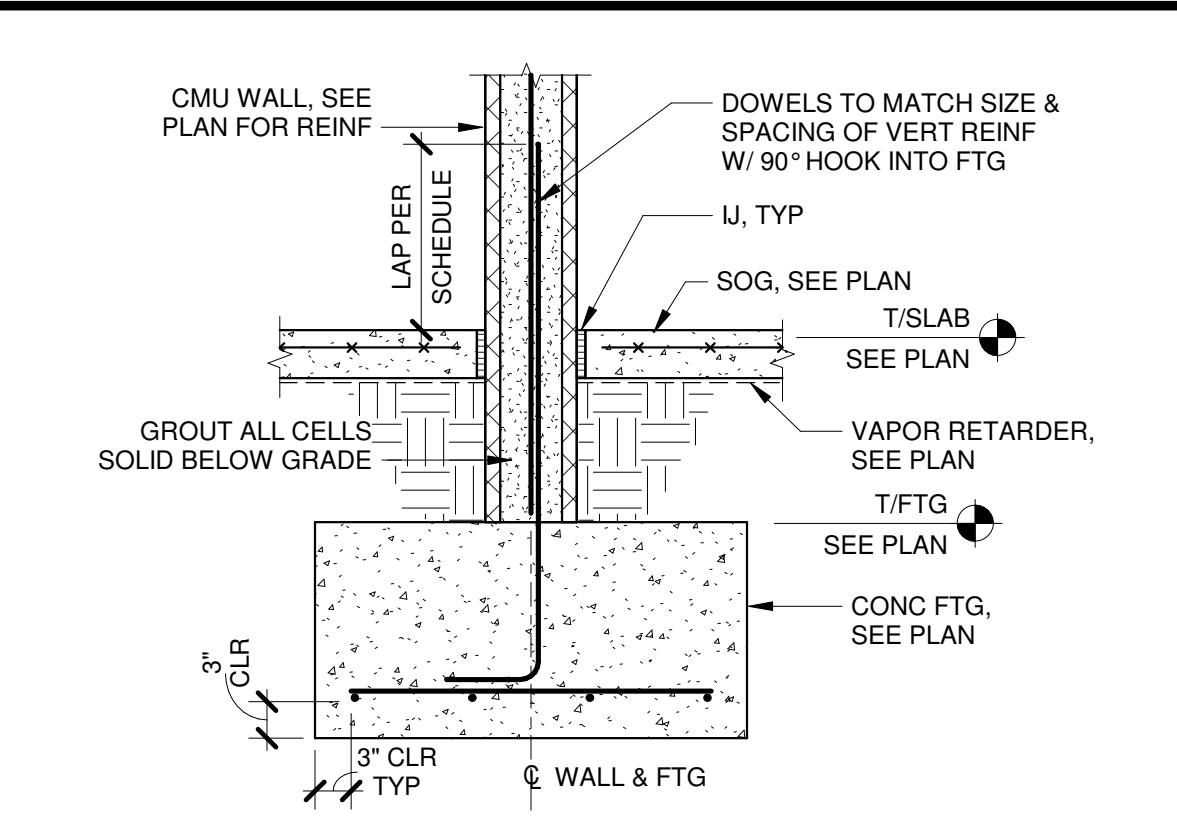
CMU AT RAKED TIE BEAM

S8.2 1/2" = 1'-0"



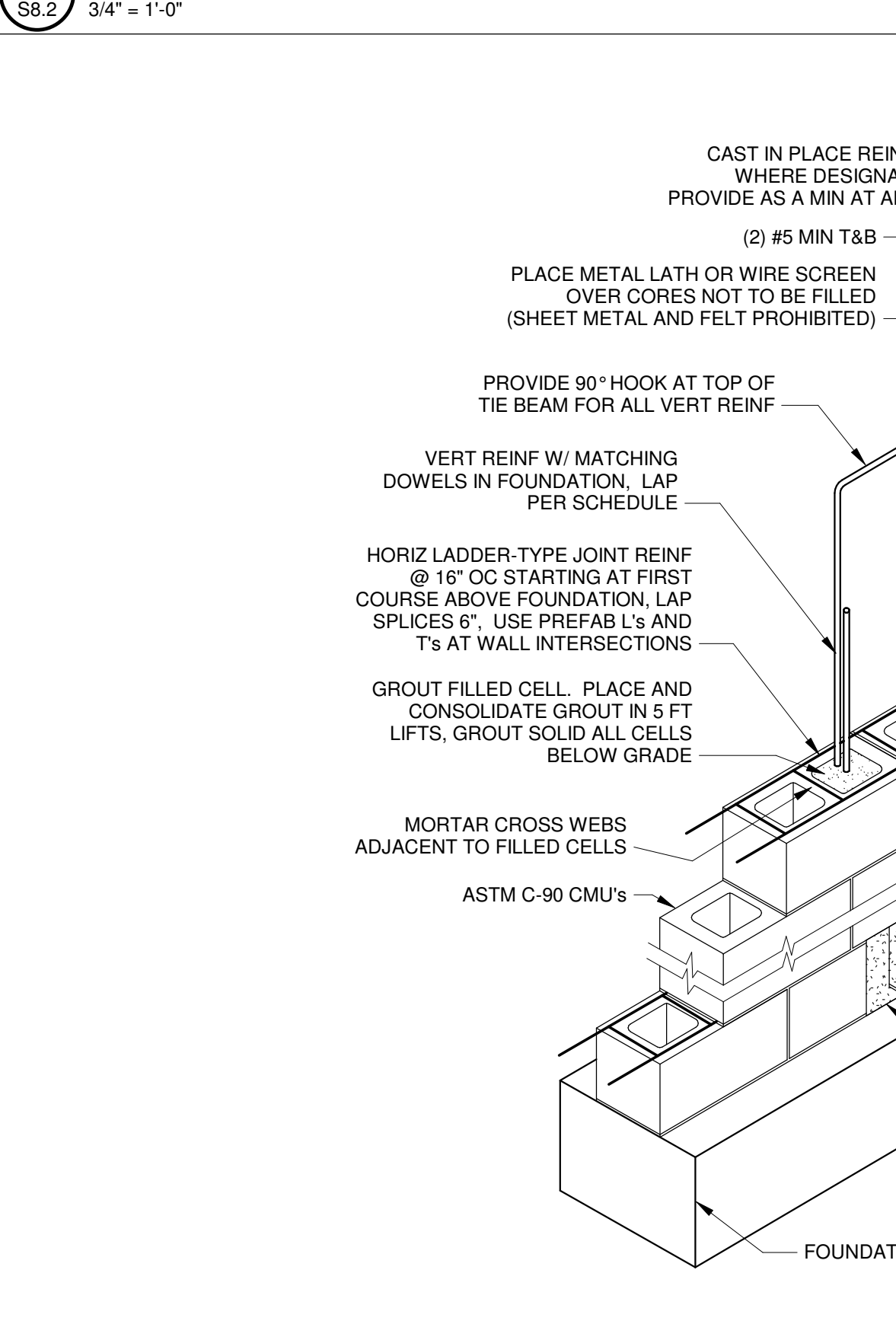
SECTION

S8.2 1" = 1'-0"



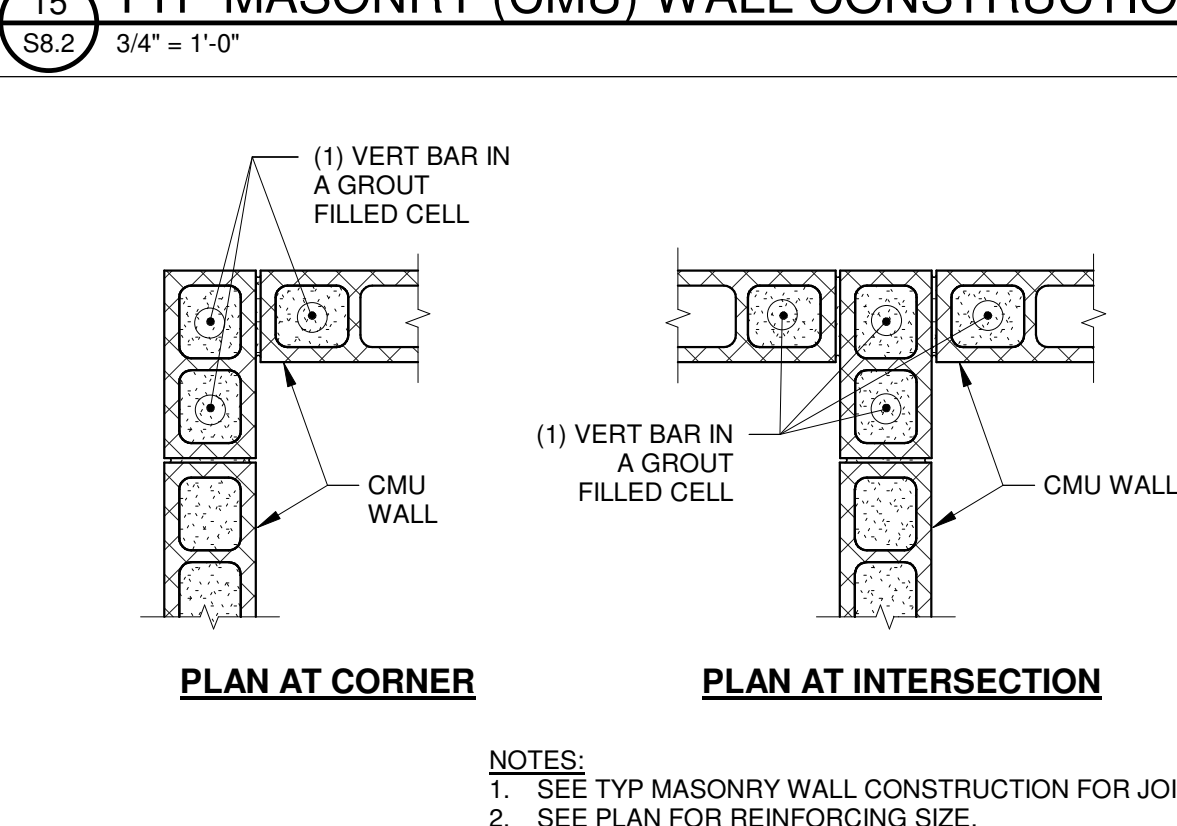
CMU AT INTERIOR WALL FOOTING

S8.2 3/4" = 1'-0"



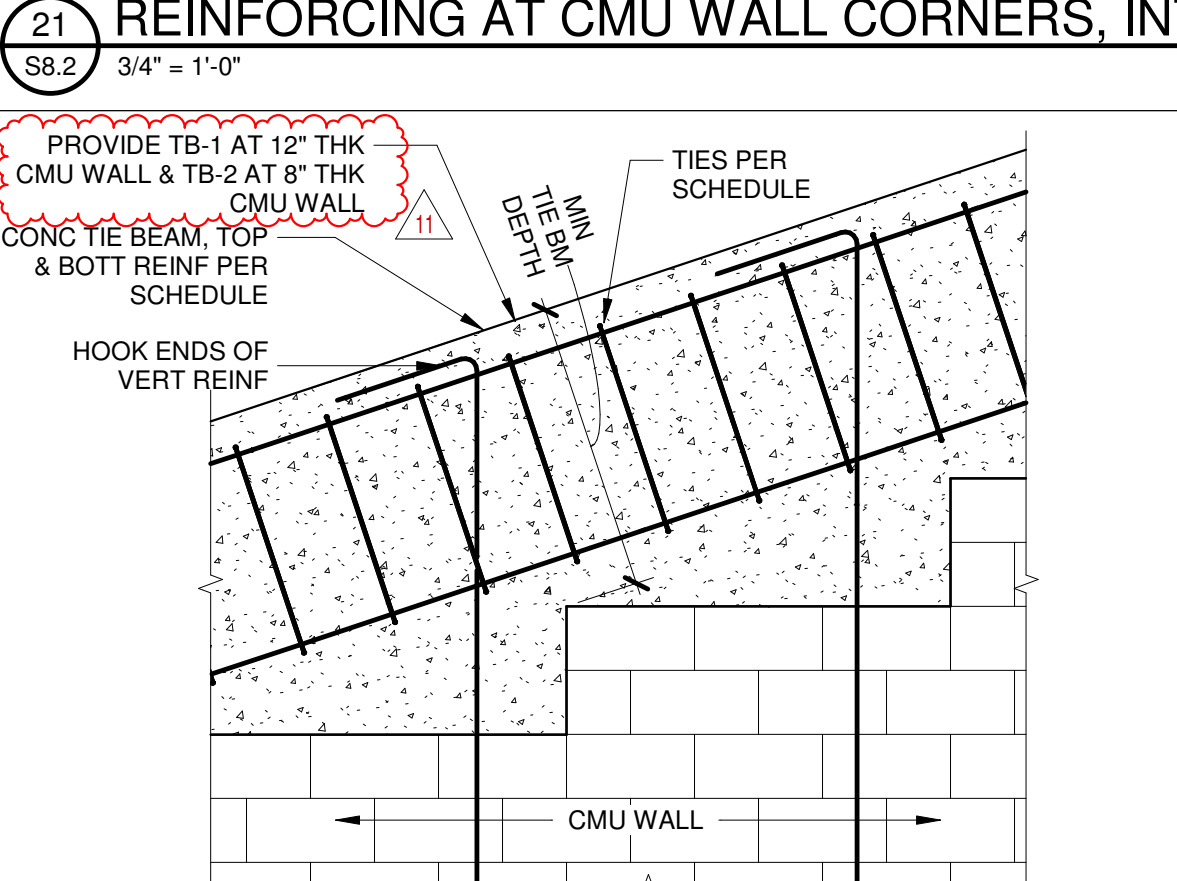
CMU WINDOW OPNG W/ PRECAST LINTEL & BOND BM SILL

S8.2 1/2" = 1'-0"



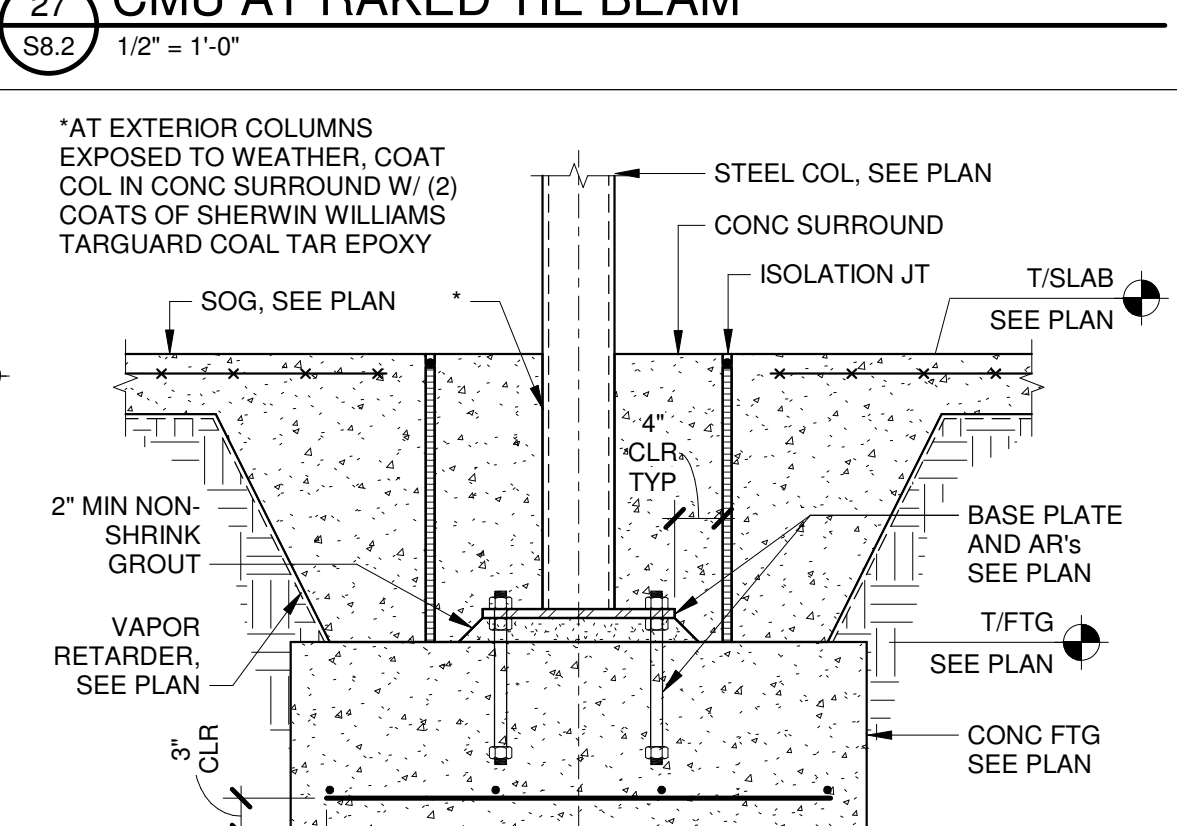
CMU WALL OPNG AT CONC TIE BEAM

S8.2 1/2" = 1'-0"



CMU WALL OPNG AT CONC TIE BEAM

S8.2 1/2" = 1'-0"



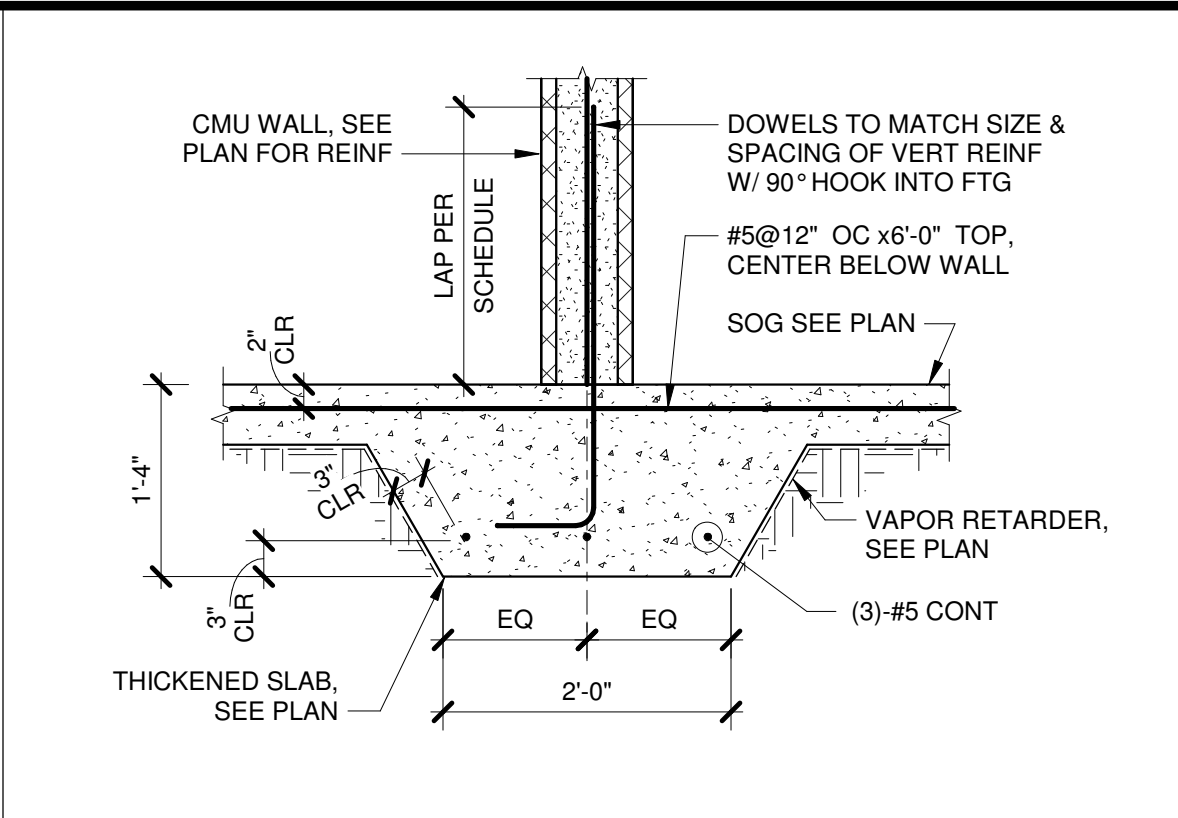
CMU WALL OPNG AT CONC TIE BEAM

S8.2 1/2" = 1'-0"



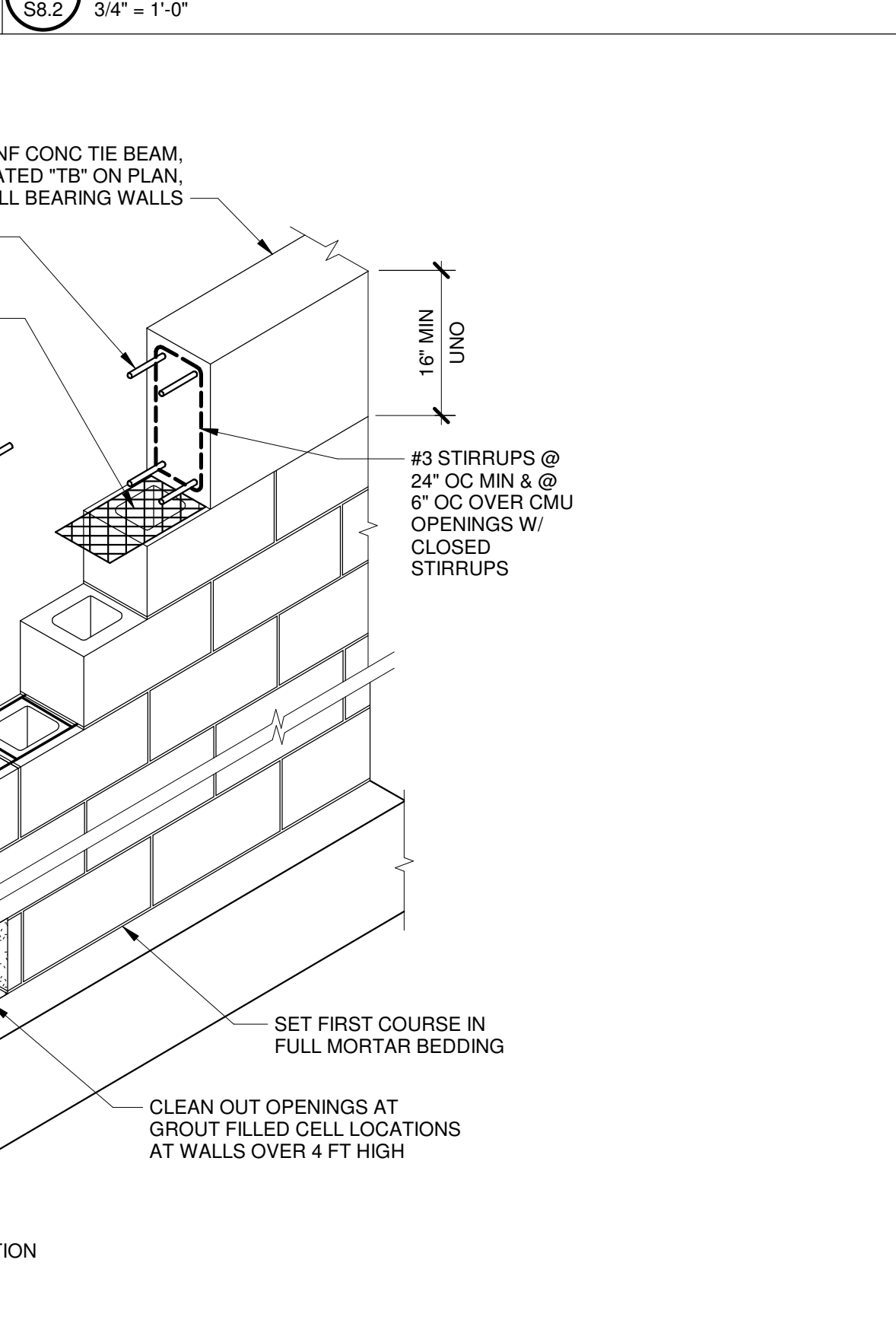
SECTION

S8.2 1" = 1'-0"



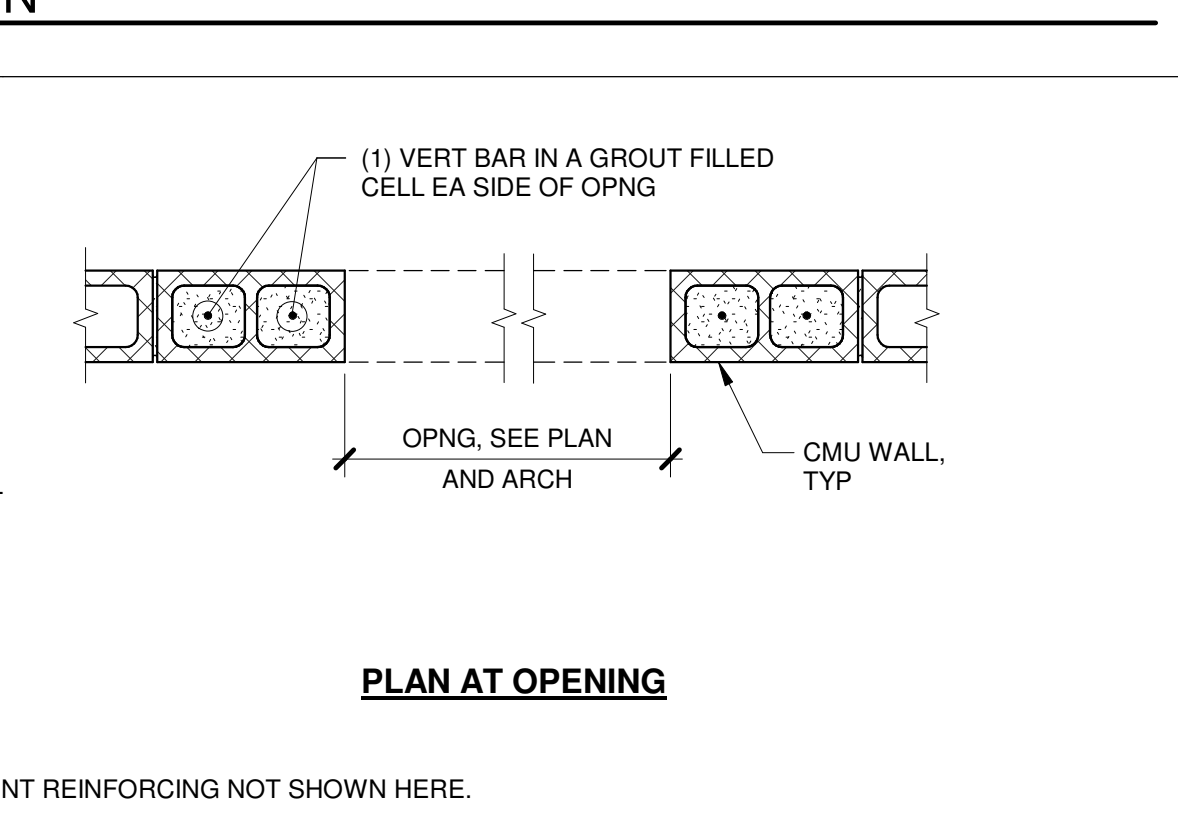
CMU WALL OPNG W/ PRECAST LINTEL

S8.2 1/4" = 1'-0"



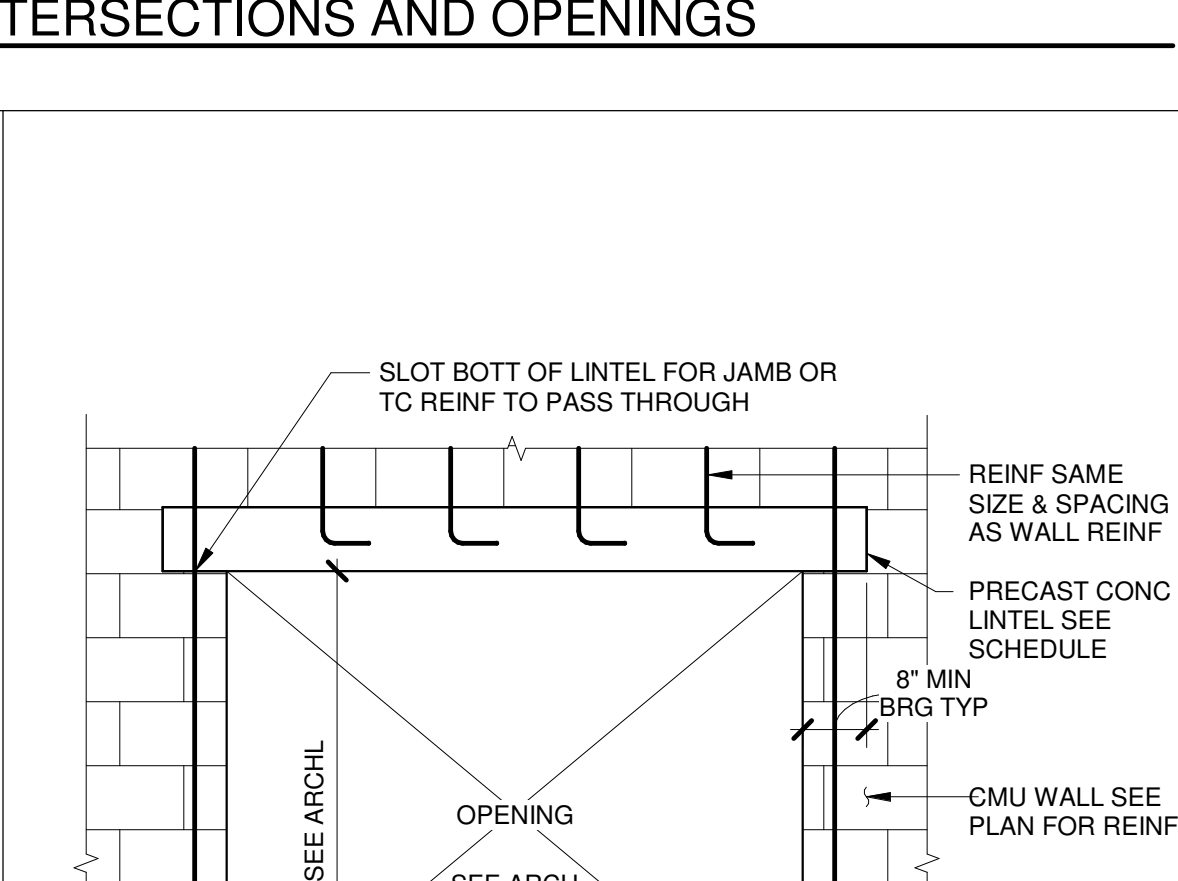
CMU WALL OPNG W/ PRECAST LINTEL

S8.2 1/4" = 1'-0"



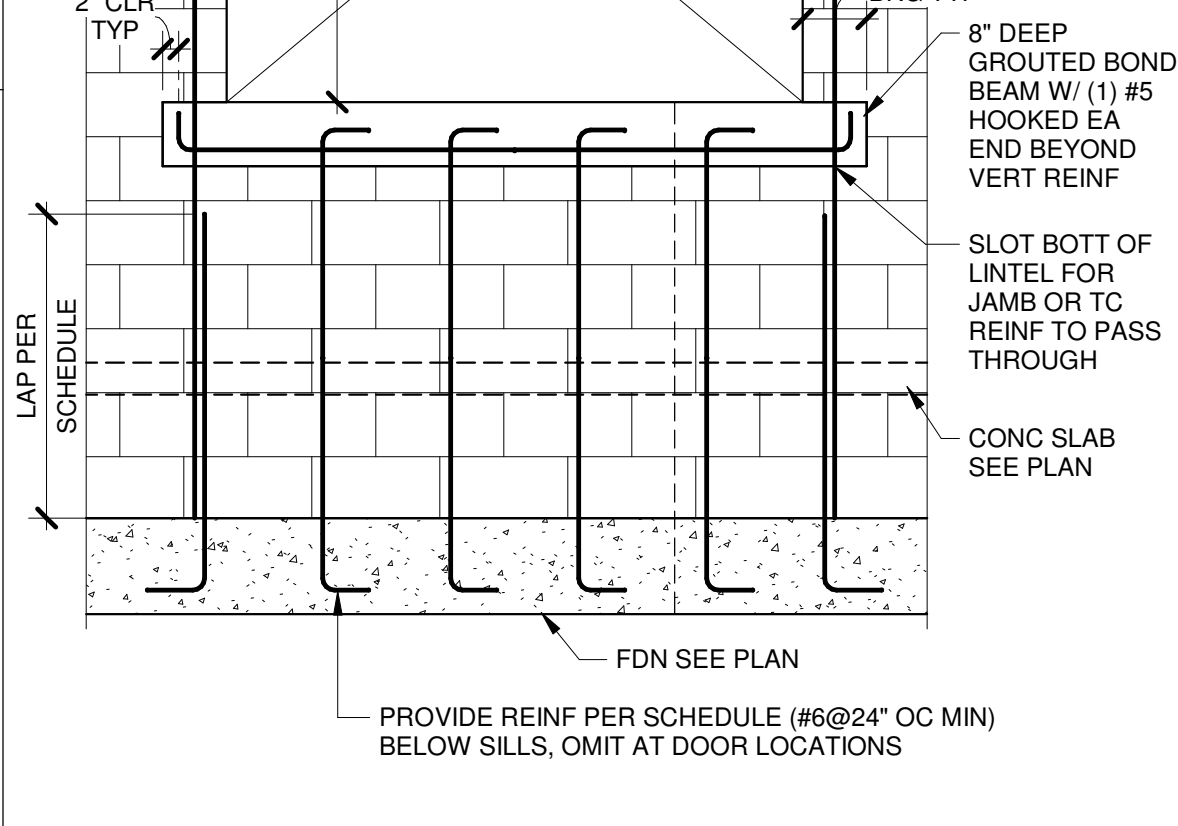
CMU WALL OPNG W/ PRECAST LINTEL

S8.2 1/4" = 1'-0"



CMU WALL OPNG W/ PRECAST LINTEL

S8.2 1/4" = 1'-0"



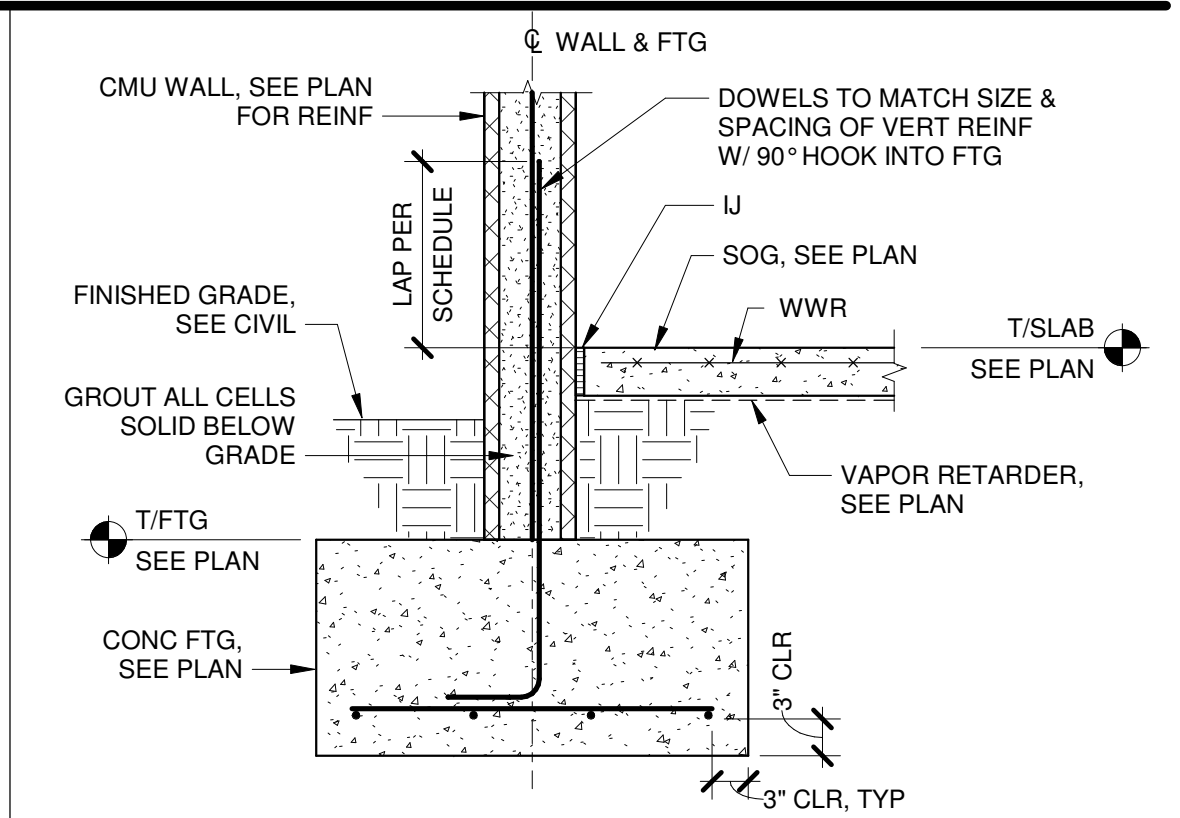
CMU WALL OPNG W/ PRECAST LINTEL

S8.2 1/2" = 1'-0"



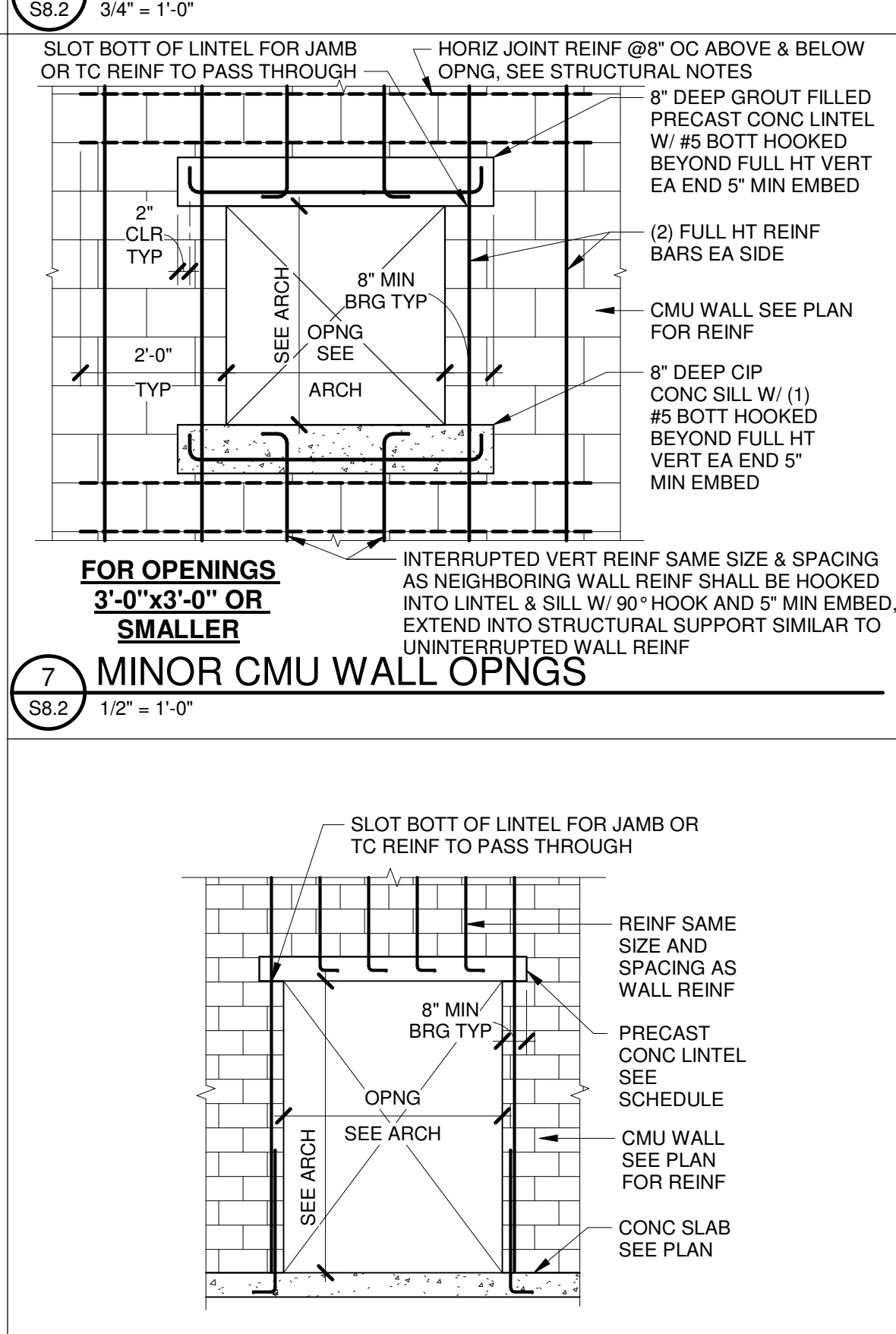
SECTION

S8.2 1" = 1'-0"



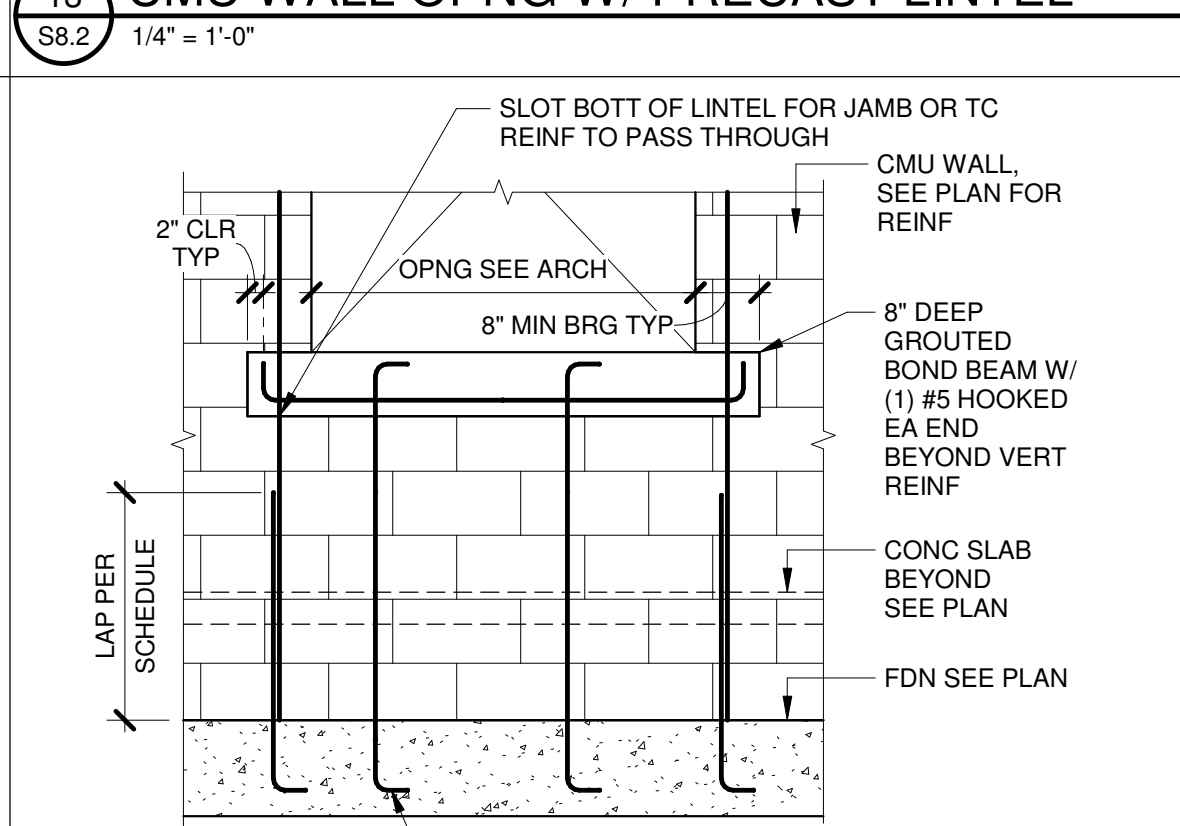
CMU WALL OPNG W/ PRECAST LINTEL

S8.2 1/4" = 1'-0"



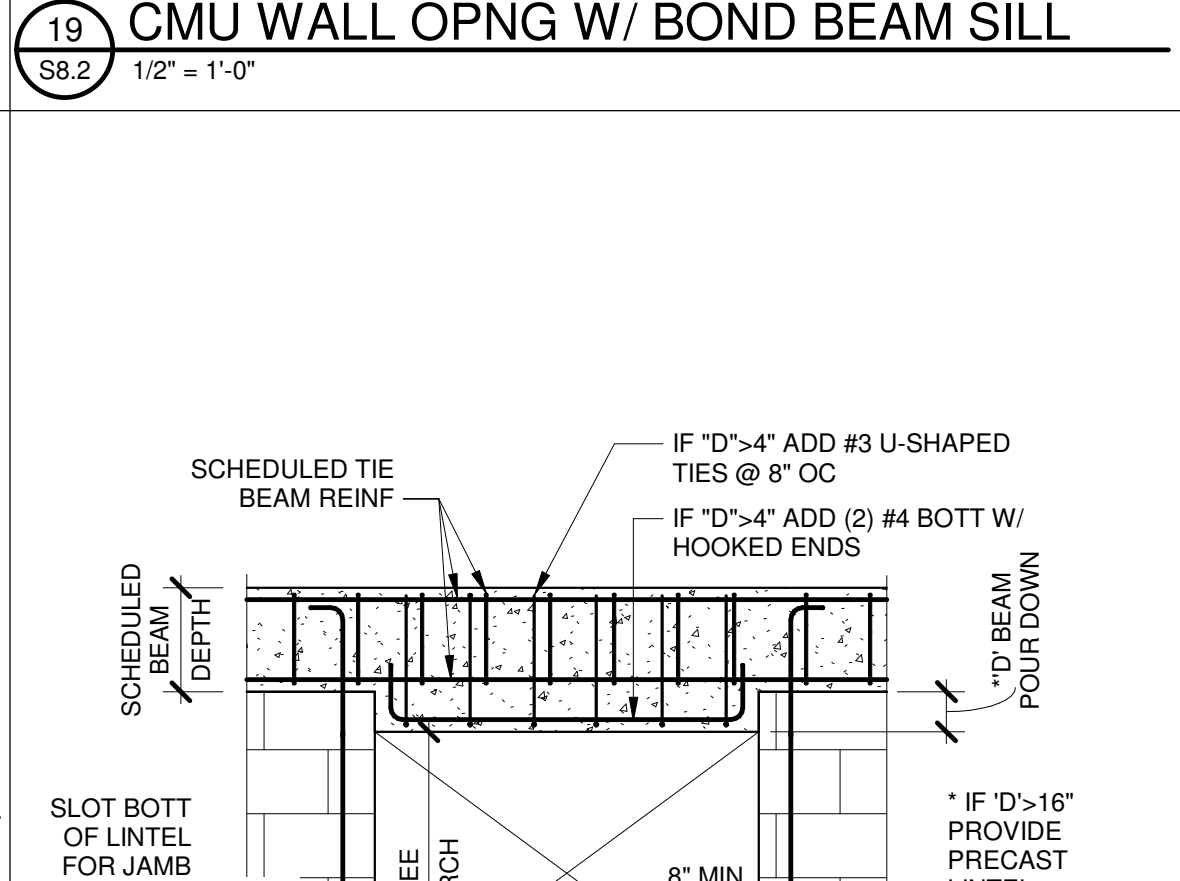
CMU WALL OPNG W/ PRECAST LINTEL

S8.2 1/4" = 1'-0"



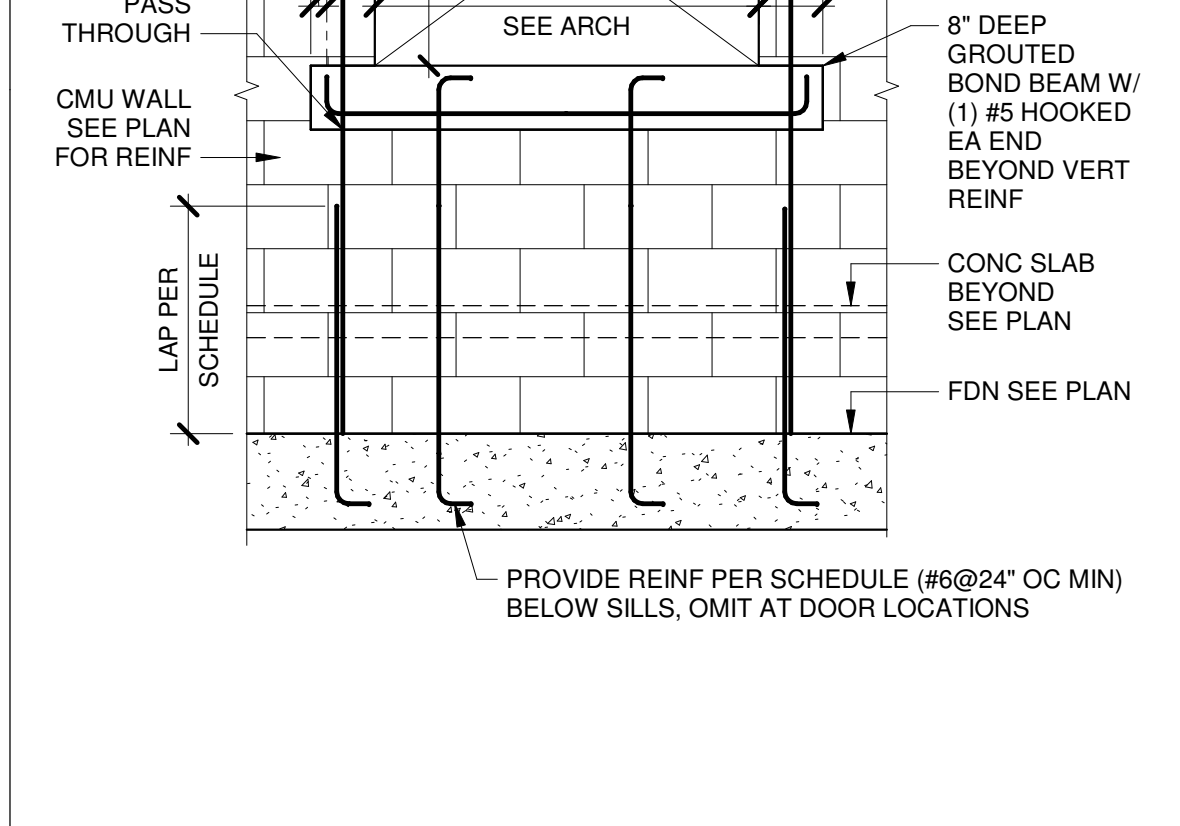
CMU WALL OPNG W/ PRECAST LINTEL

S8.2 1/4" = 1'-0"



CMU WALL OPNG W/ PRECAST LINTEL

S8.2 1/4" = 1'-0"



CMU WALL OPNG W/ PRECAST LINTEL

S8.2 1/2" = 1'-0"



SECTION

S8.2 1" = 1'-0"

CODE REVIEW:

CERTIFICATE:

spieze

SPIEZE ARCHITECTURAL GROUP INC.
2001 9TH AVENUE
SUITE 308
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PHONE: 772-794-2929

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TO THE BEST OF MY KNOWLEDGE AND
ABILITY, THE COMPLETED STRUCTURE
DEPICTED ON THESE PLANS
COMPLIES WITH THE APPLICABLE
MINIMUM BUILDING CODES.
FILE NO.: 24FTL018

PERMIT SET 2-13-2025

PROJECT:

ST. LUCIE WEST GROVE
K-8 SCHOOL

10701 SW SUNDANCE VISTA BLVD
PORT ST. LUCIE, FL 34987

FOR

ST. LUCIE SCHOOL
DISTRICT

9461 BRANDYWINE LANE, PORT ST.
LUCIE, FL 34986

FOR CODE REVIEW:

REVISIONS:

REV.	REVISION NAME	DATE
11	ASH:11	09.29.2025

FOR BID:

DRAWING TITLE:

TYPICAL MASONRY
DETAILS

COMMISSION NUMBER:

24FTL018

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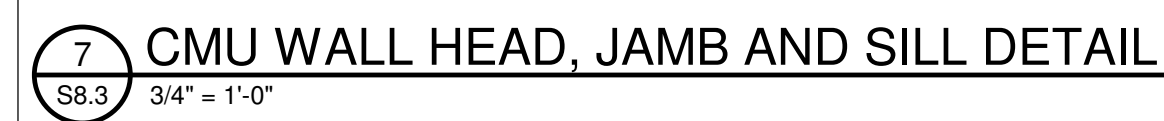
S8.2

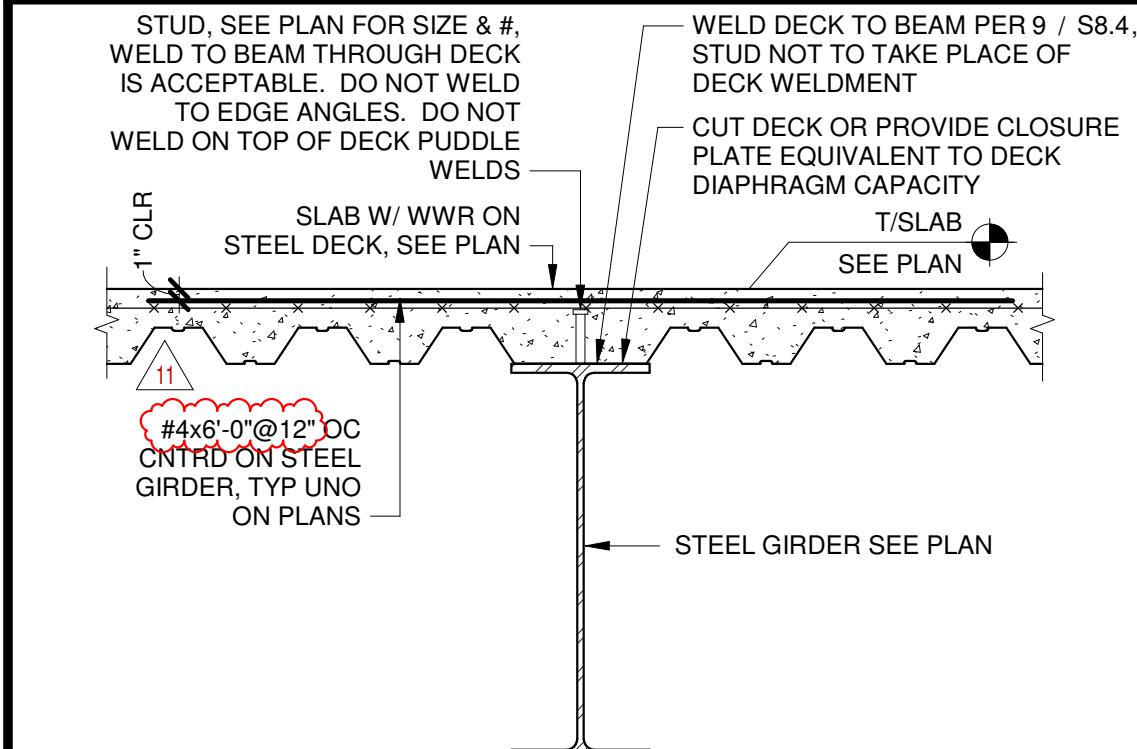
SPIEZE ARCHITECTURAL GROUP, INC. COPYRIGHT © 2024 2025-09-29 7:11:30 PM Autodesk Docs://24K054 - St Lucie WG K8/Western Grove K8 - SLPS_R24.rvt THIS DRAWING IS FORMATTED TO BE PRINTED AT 30"x42"



TYPE DESIGNATION

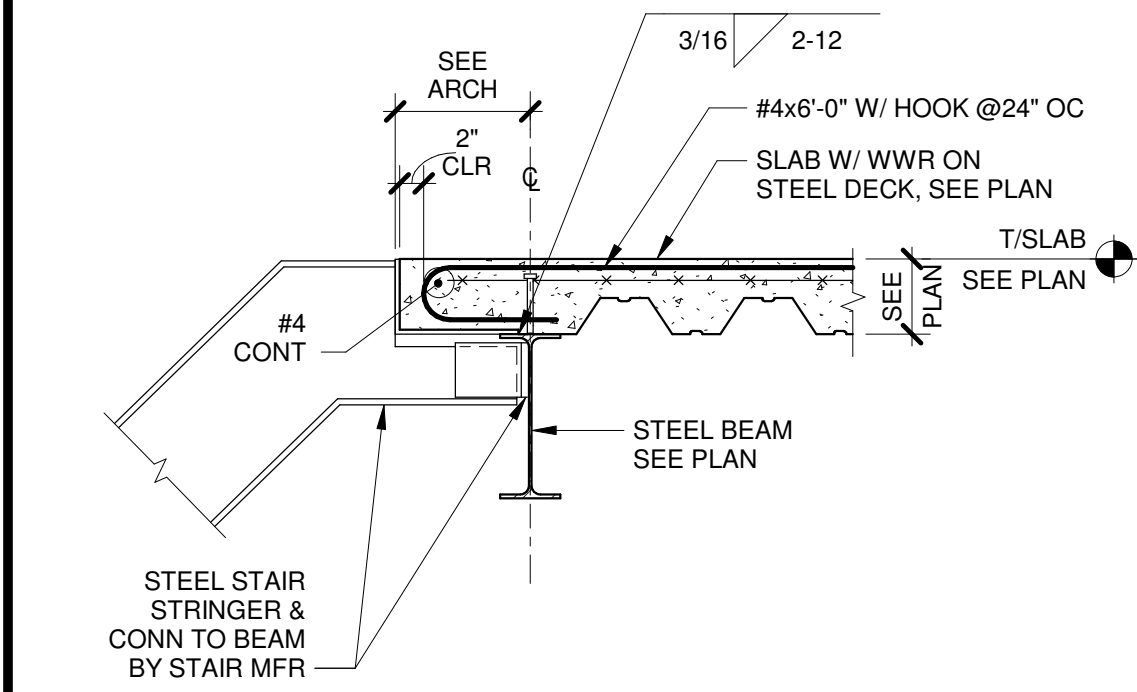
DESIGNATION	QTY OF #5 REBAR AT TOP	QTY OF #5 REBAR AT BOTTOM
8F16-1B/1T	1	1
8U16-1B/1T	0	0





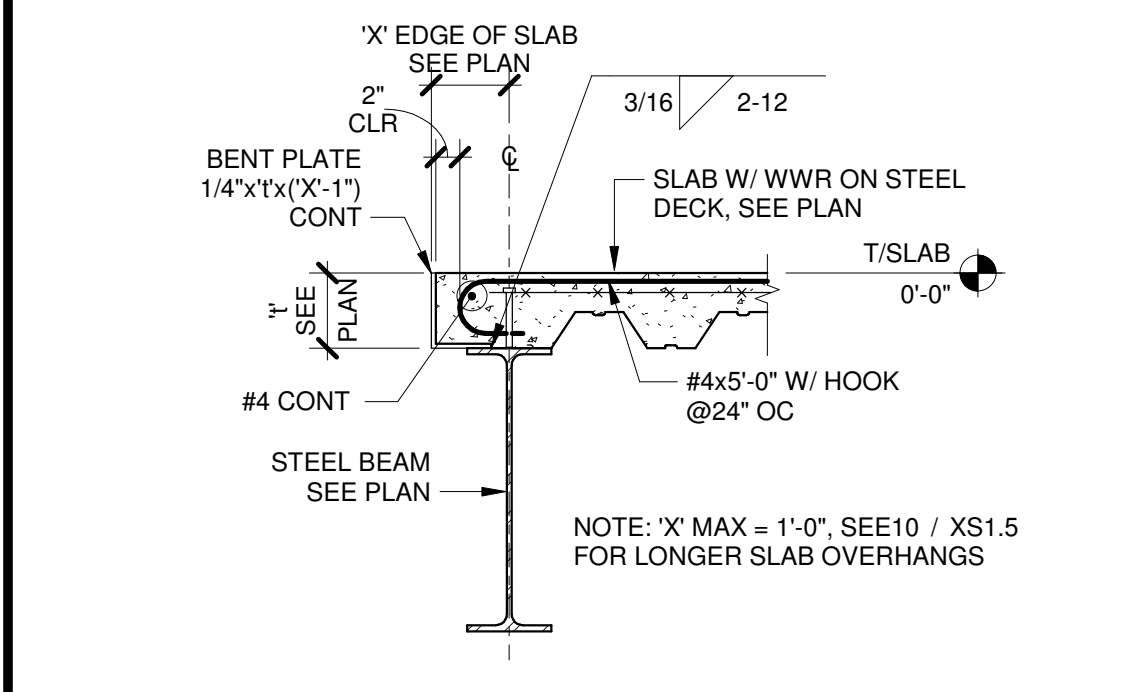
COMPOSITE DECK AT GIRDER CONNECTION

6 S8.4 3/4" = 1'-0"



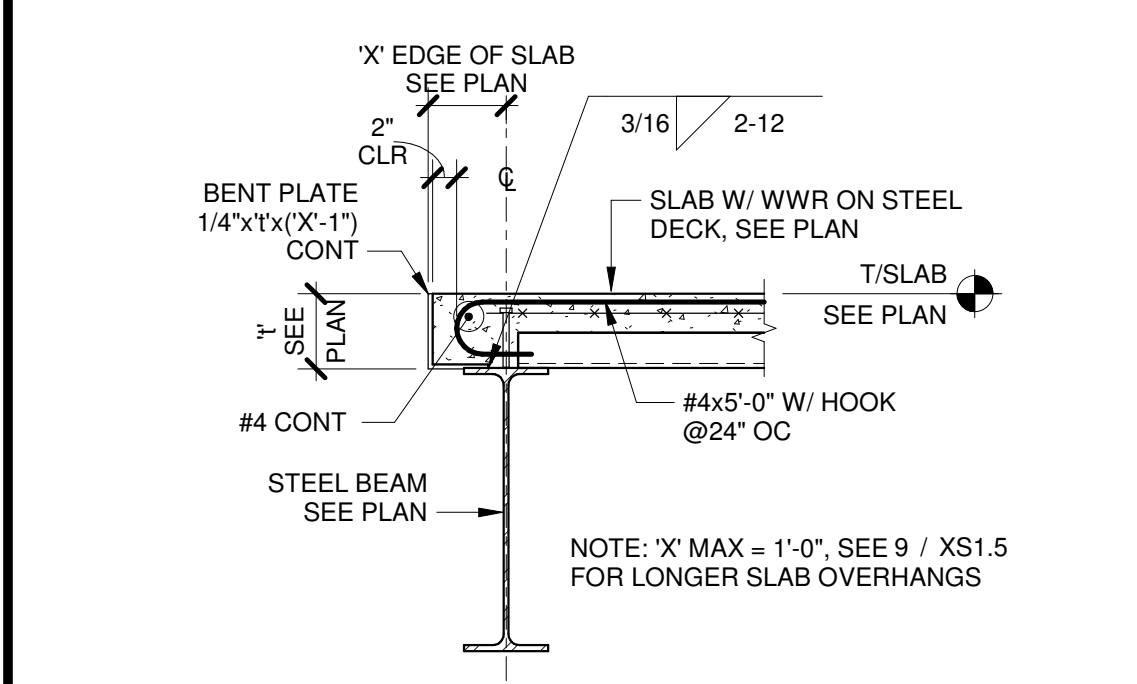
STEEL STAIR CONNECTION

12 S8.4 3/4" = 1'-0"



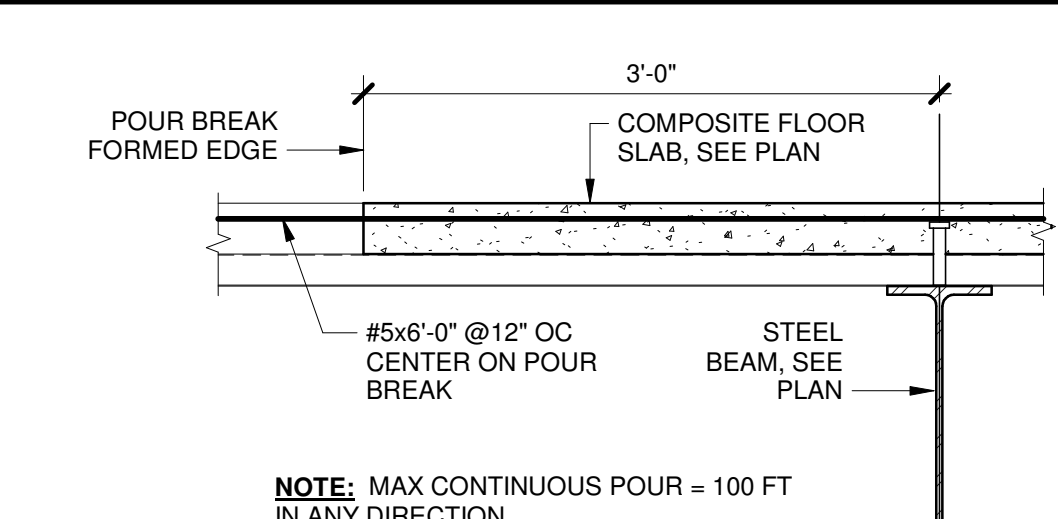
DECK EDGE DETAIL - DECK PARALLEL

18 S8.4 3/4" = 1'-0"



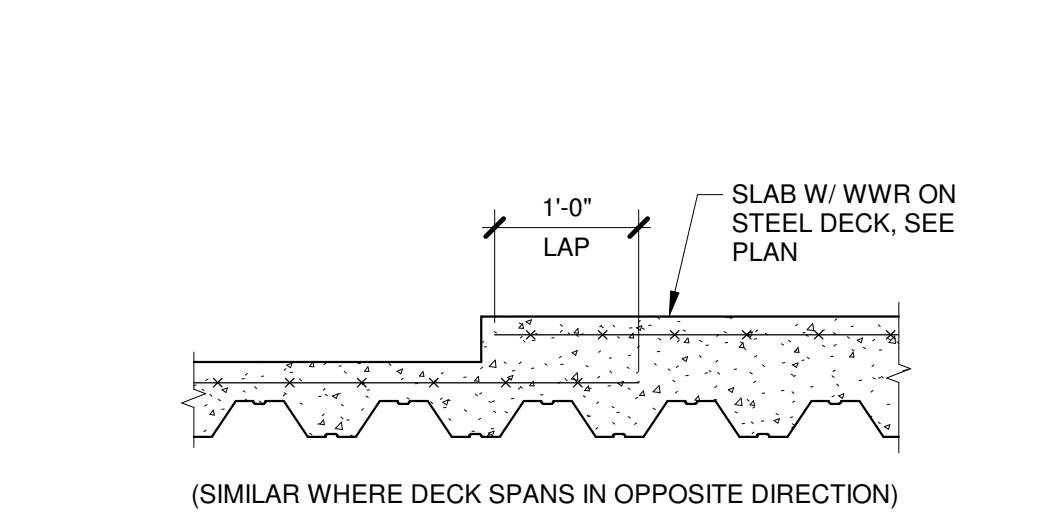
DECK EDGE DETAIL - DECK PERPENDICULAR

24 S8.4 3/4" = 1'-0"



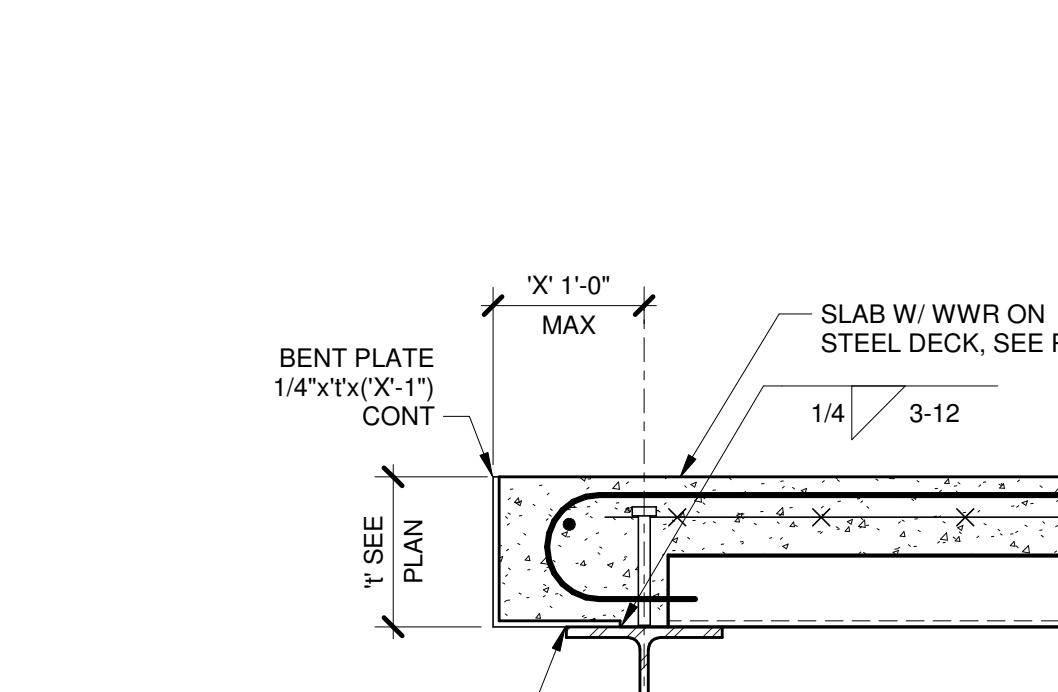
COMPOSITE FLOOR CONSTRUCTION JOINT

5 S8.4 1" = 1'-0"



DEPRESSED SLAB AT STEEL DECK

11 S8.4 3/4" = 1'-0"



DECK EDGE DETAIL - DECK PERPENDICULAR

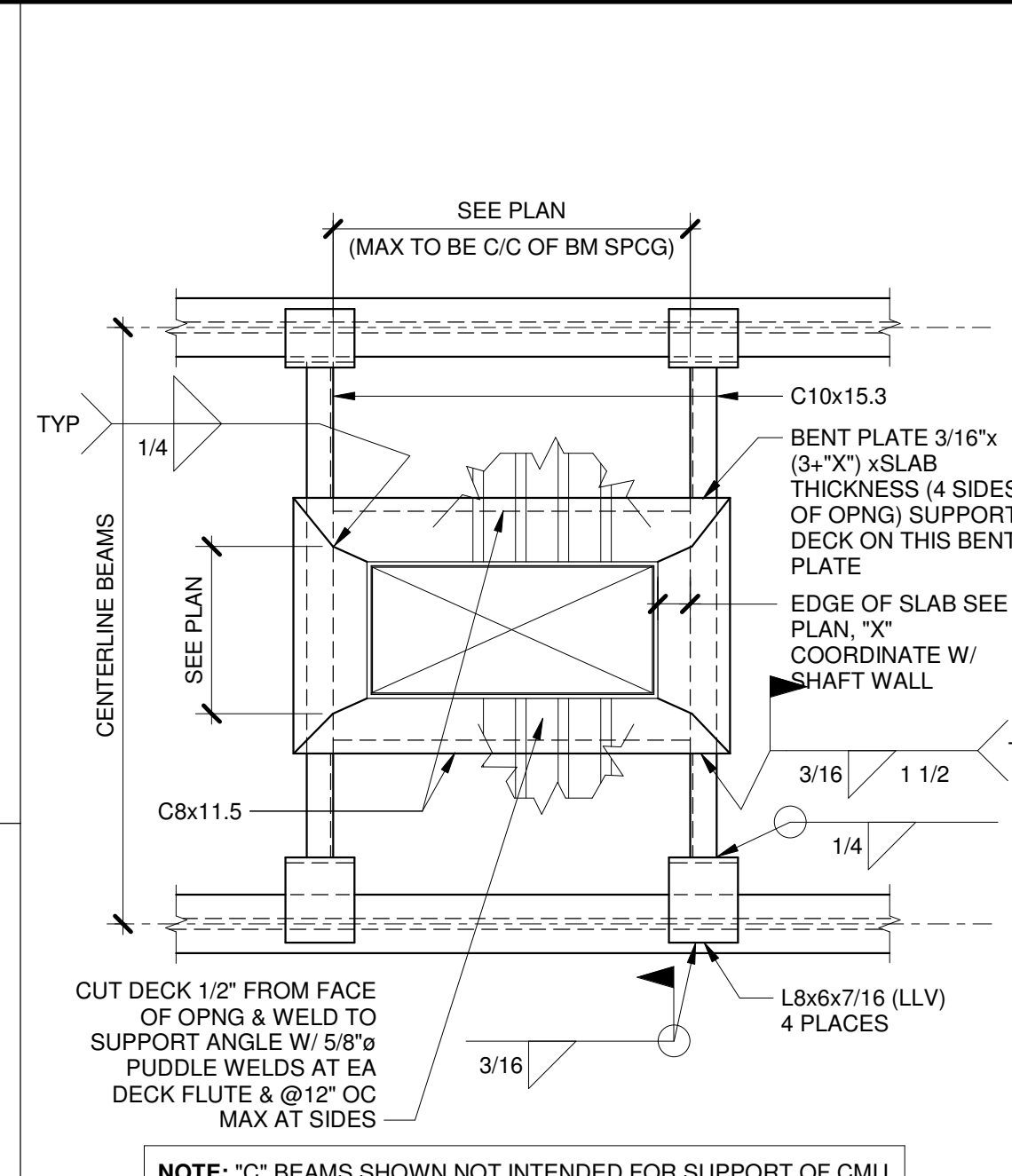
23 S8.4 1 1/2" = 1'-0"

VERTICAL REACTIONS FROM COOLING TOWERS, RTU				
	EQUIPMENT + CURB	LATERAL WIND		UPLIFT
		WIND - X	WIND - Y	
P1	+535	-1445	+1285	-1230
P2	+380	+1445	+428	-610
P3	+535	-1445	-1285	-1230
P4	+380	+1445	-428	-610

NOTES:
1. ALL REACTION FORCES ARE IN LBS.
2. WIND REACTIONS ARE FOR ALLOWABLE STRESS DESIGN. USE APPROPRIATE LOAD FACTORS IN COMBINATIONS.
3. REACTIONS DUE TO LATERAL WIND ARE REVERSIBLE. DELEGATED ENGINEER FOR TRUSSES/JOISTS TO DESIGN FOR THE FORCE REVERSAL IN COMBINATION WITH ALL THE OTHER FORCES ACTING ON THE TRUSSES/JOISTS INCLUDING THE UPLIFT FORCES ABOVE.

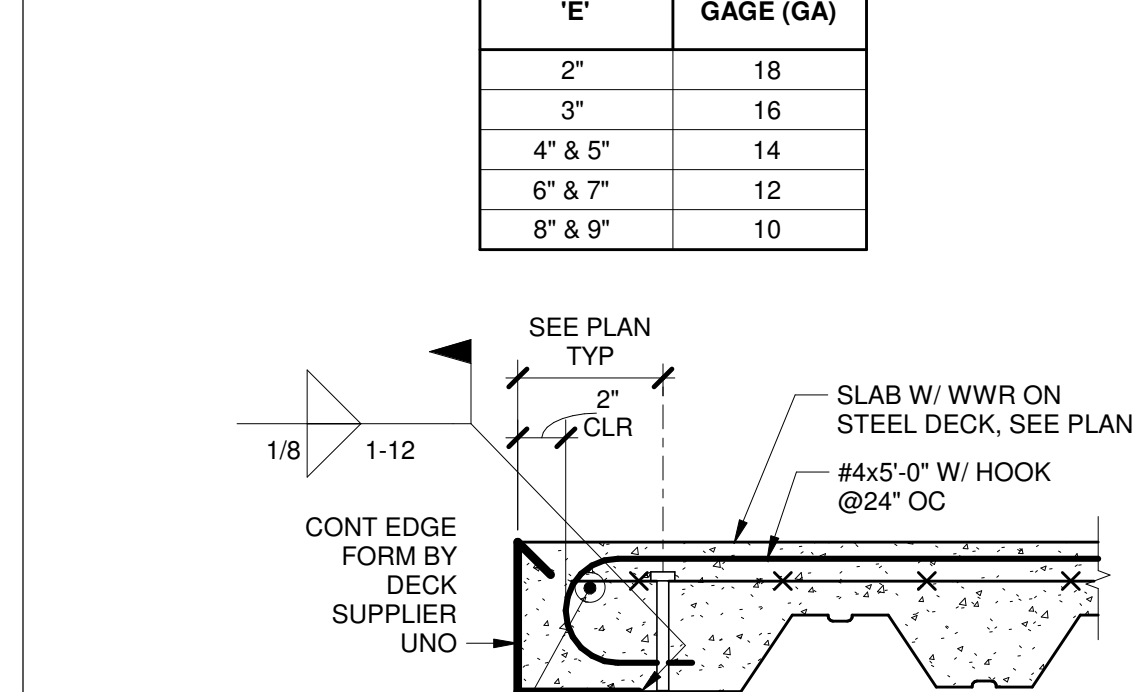
SCHEDULE

29 S8.4 1/8" = 1'-0"



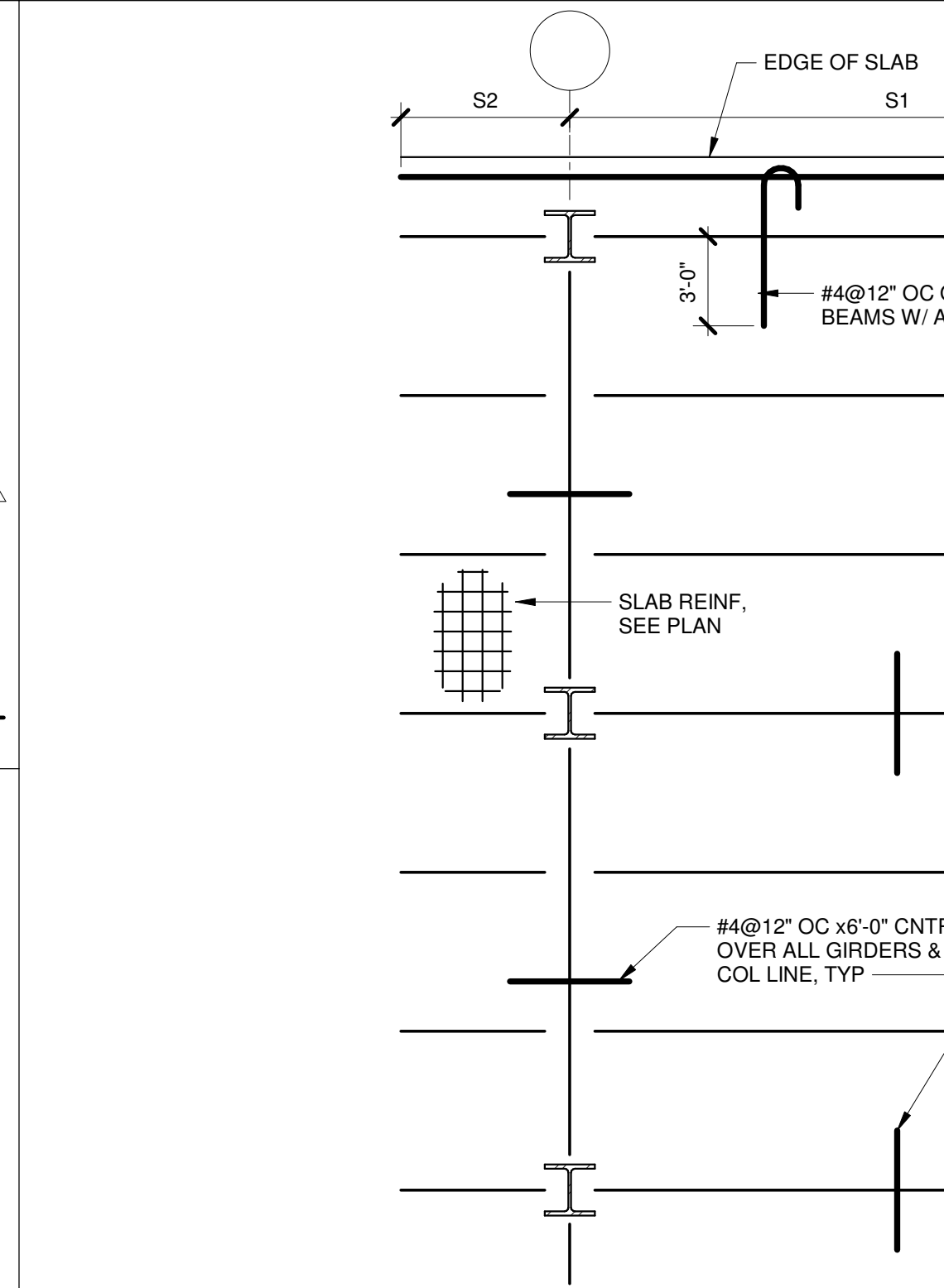
COMPOSITE SLAB OPENING DETAIL

10 S8.4 3/4" = 1'-0"



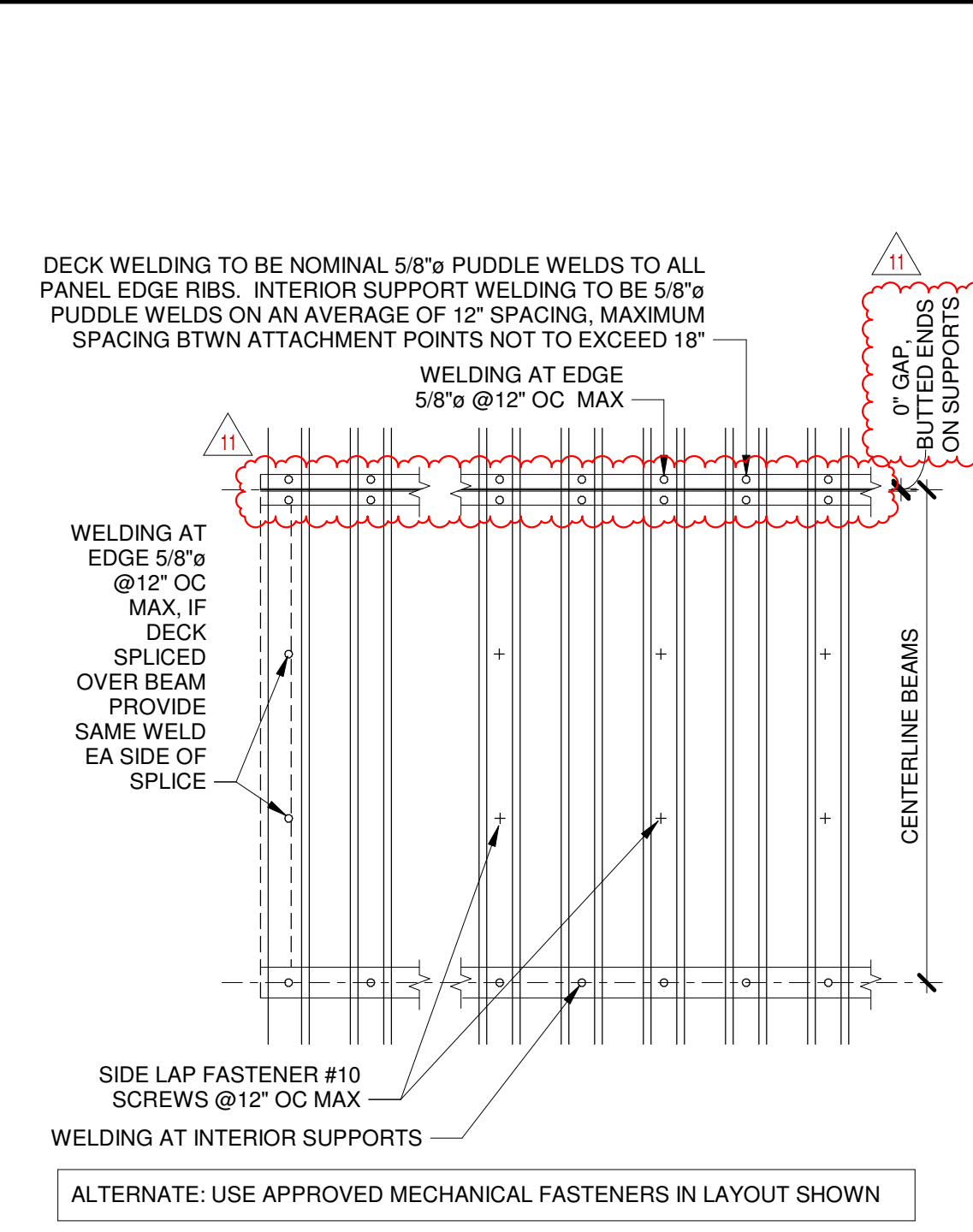
DECK EDGE DETAIL - DECK PARALLEL

22 S8.4 1 1/2" = 1'-0"



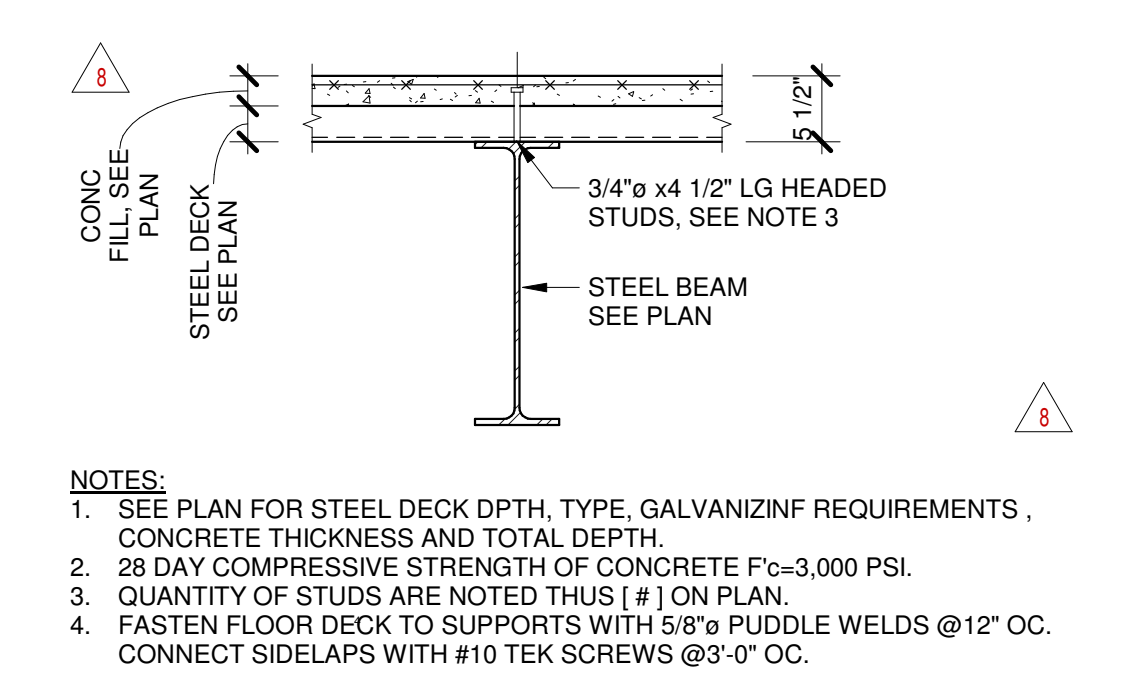
COMPOSITE SLAB REINFORCING AT COLUMN LINES AND EDGE OF SLAB

34 S8.4 3/4" = 1'-0"



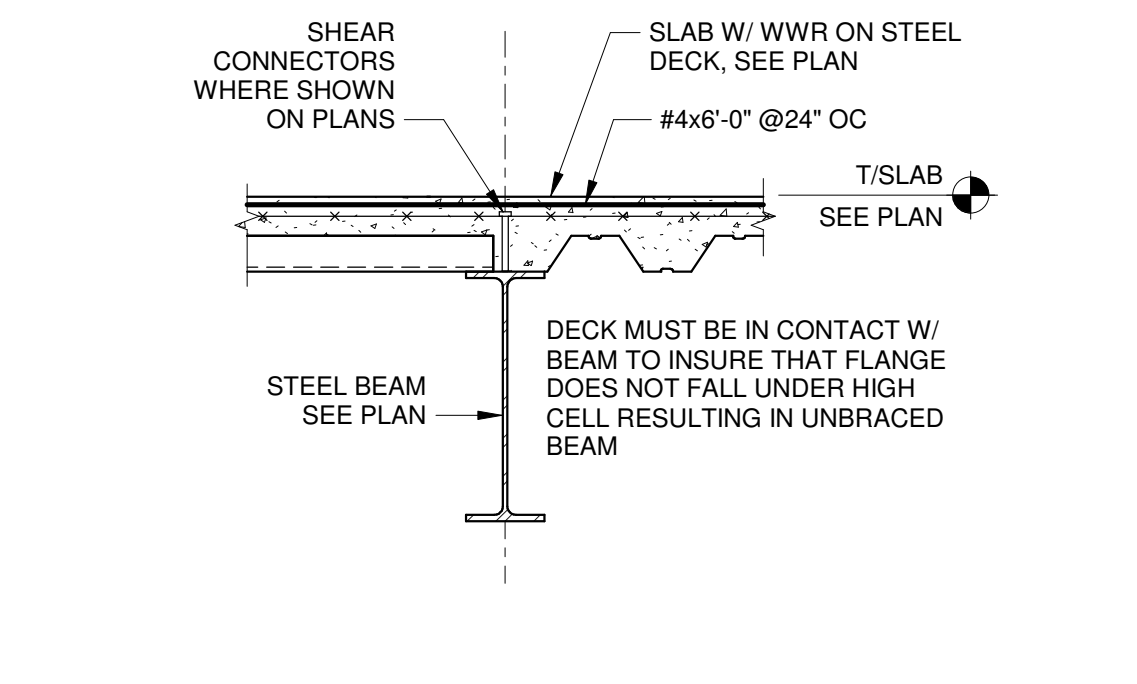
COMPOSITE FLOOR DECK FASTENING

9 S8.4 3/4" = 1'-0"



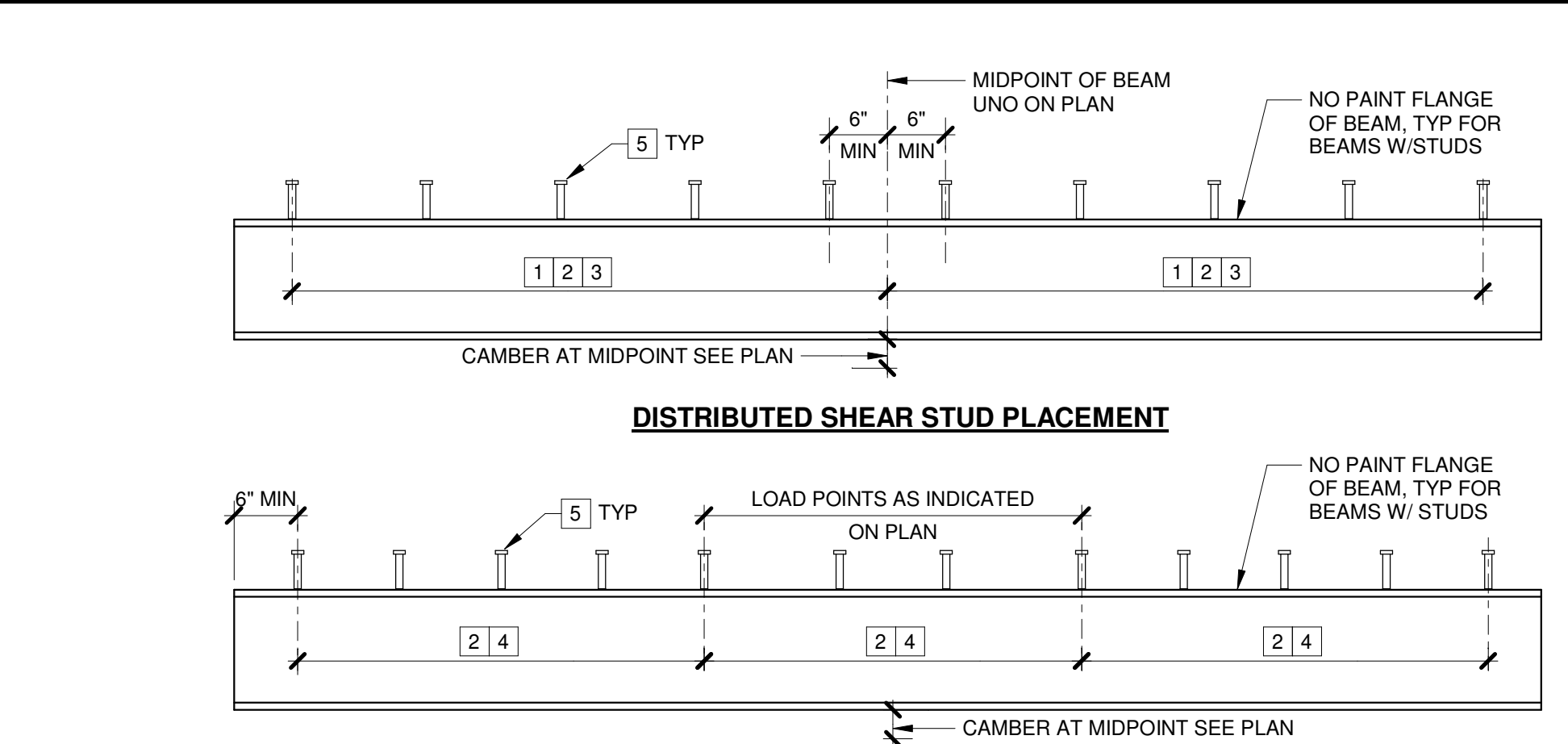
COMPOSITE SLAB / BEAM DETAIL

15 S8.4 3/4" = 1'-0"



DECK TRANSITION AT STEEL BEAM

21 S8.4 3/4" = 1'-0"

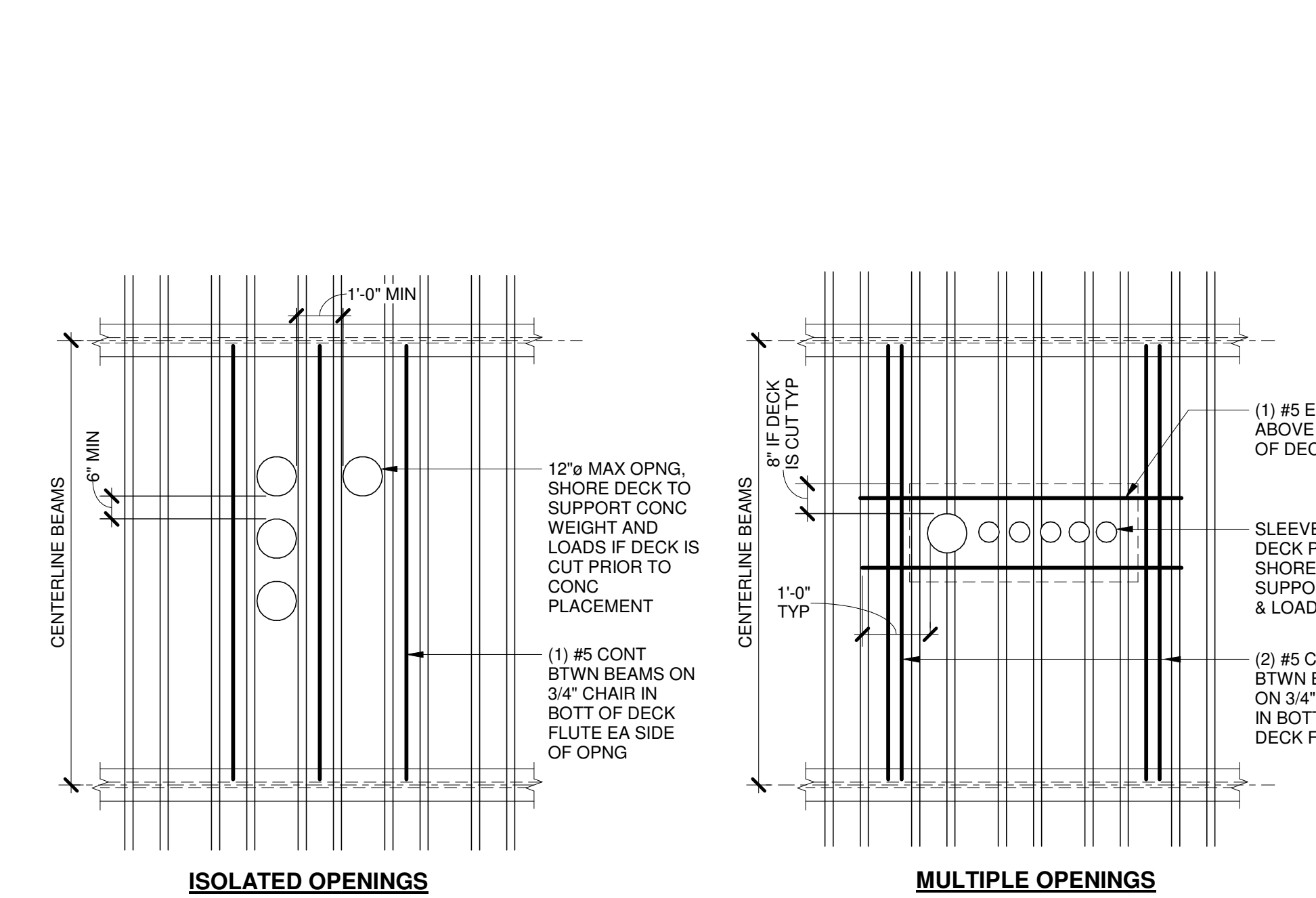


GROUPED SHEAR STUD PLACEMENT

- SHEAR STUD PLACEMENT**
EQUALLY DISTRIBUTE ONE HALF OF SHEAR CONNECTORS INDICATED ON PLAN EACH SIDE OF BEAM MIDPOINT OR LOAD POINTS INDICATED ON PLANS, STARTING FROM EACH END OF SPAN. SEE PLAN FOR NUMBER OF STUDS.
- SPACING OF SHEAR CONNECTORS SHALL NOT EXCEED 8 TIMES THE TOTAL SLAB THICKNESS AND NO GREATER THAN 36" OC. SPACING SHALL BE NO CLOSER THAN 6x STUD DIAMETER OR DISTANCE BETWEEN FLUTES FOR STEEL DECKS WHEN DECK FLUTE IS PERPENDICULAR TO BEAM. COORDINATE STUD LAYOUT WITH DECK SECTIONS USED.
- DOUBLE OR TRIPLE STUDS IF REQUIRED. DOUBLE AND TRIPLE STUD PLACEMENT TO BE SYMMETRICAL ABOUT BEAM WEB. MAINTAIN 4x STUD DIAMETER TRANSVERSE SPACING BETWEEN STUDS IN PARALLEL ROWS, WITH A MINIMUM EDGE DISTANCE OF 1 1/2 STUD DIAMETERS, 1" MINIMUM.
- EQUALLY DISTRIBUTE SHEAR CONNECTORS INDICATED ON PLANS FOR EACH GIRDER SEGMENT BETWEEN LOAD POINTS (BEAMS WHICH FRAME INTO GIRDER).
- SEE PLAN FOR STUD SIZE. NUMBER OF STUDS REQUIRED PER BEAM IS INDICATED BY (#).

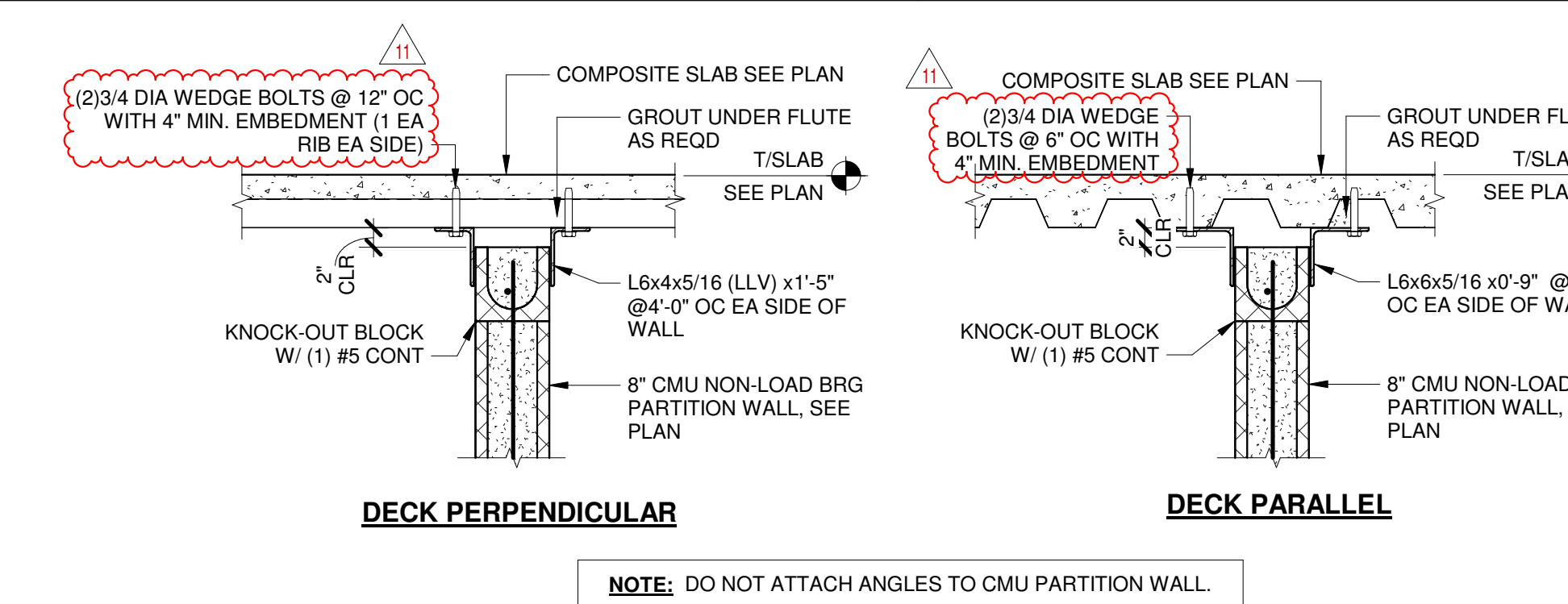
COMPOSITE STEEL BEAM STUD PLACEMENT

8 S8.4 3/4" = 1'-0"



COMPOSITE SLAB PIPE PENETRATION DETAIL

20 S8.4 1" = 1'-0"



BRACING AT CMU NON LOAD BEARING PARTITION WALL

26 S8.4 3/4" = 1'-0"



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FOR CODE REVIEW:

REVISIONS:		
#	REVISION NAME	DATE
8	ASI #8	06.19.2025
11	ASI #11	09.29.2025

FOR BID:

DRAWING TITLE:

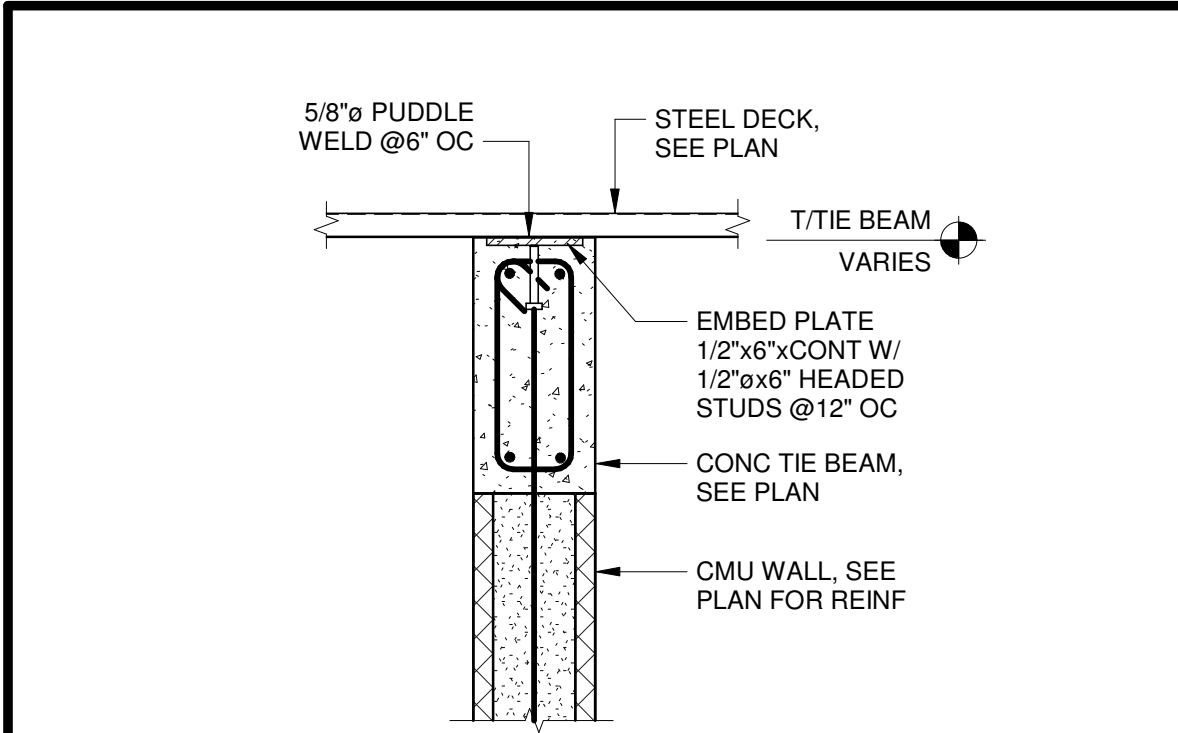
COMPOSITE STEEL
DETAILS

COMMISSION NUMBER:
24FTL018

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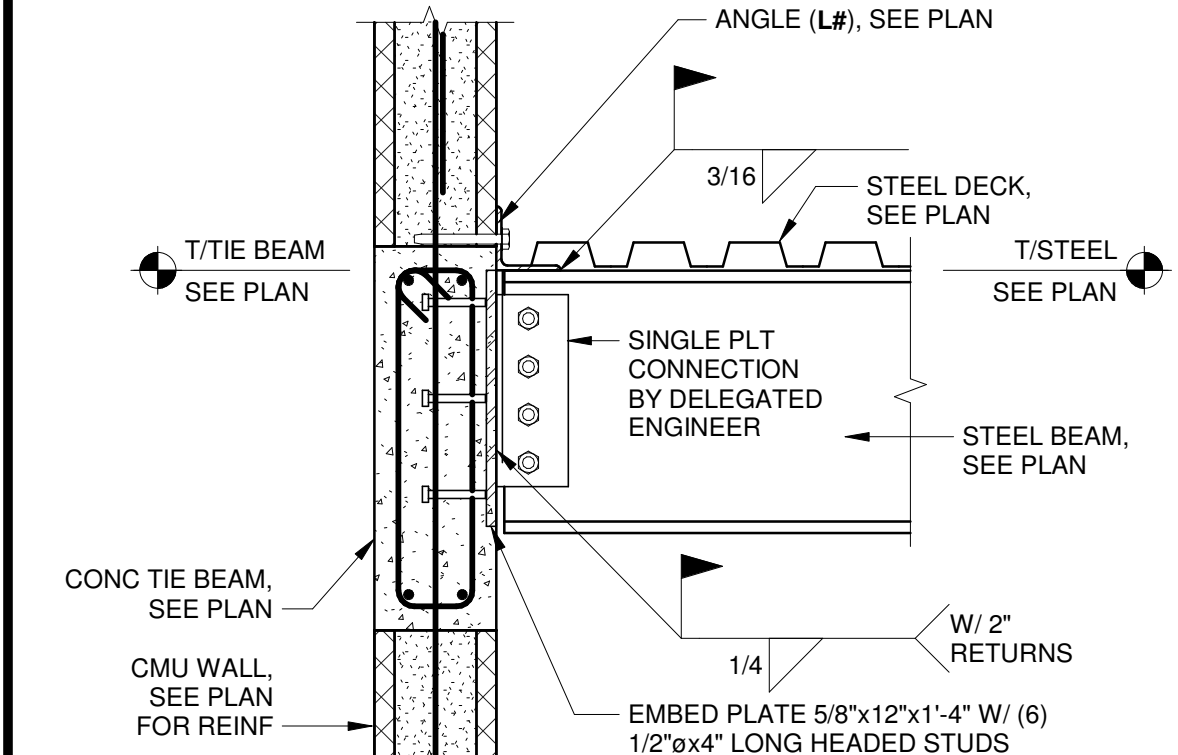
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S8.4



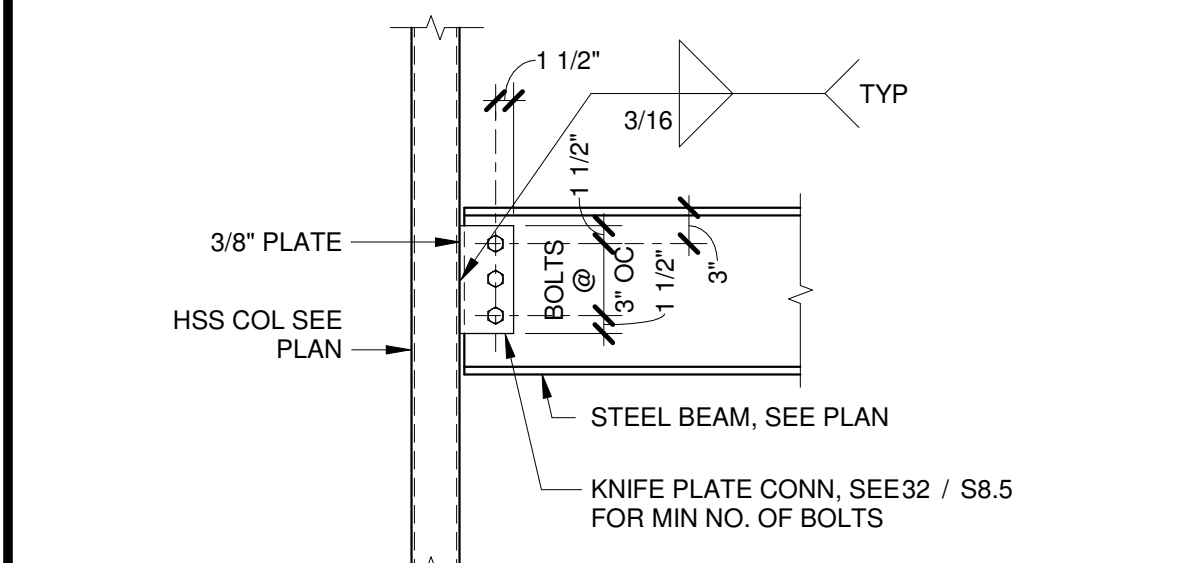
6 DECK BRG OVER CMU WALL

S8.5 1" = 1'-0"



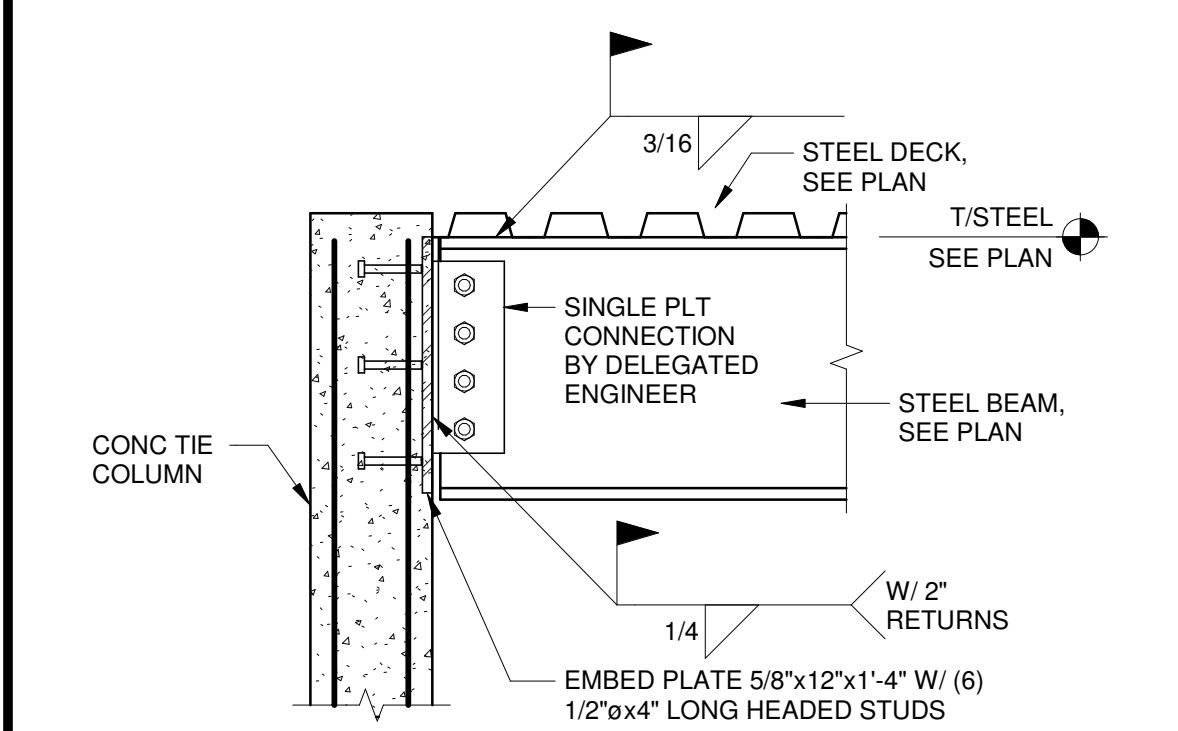
12 STEEL BEAM TO CONCRETE BEAM

S8.5 1" = 1'-0"



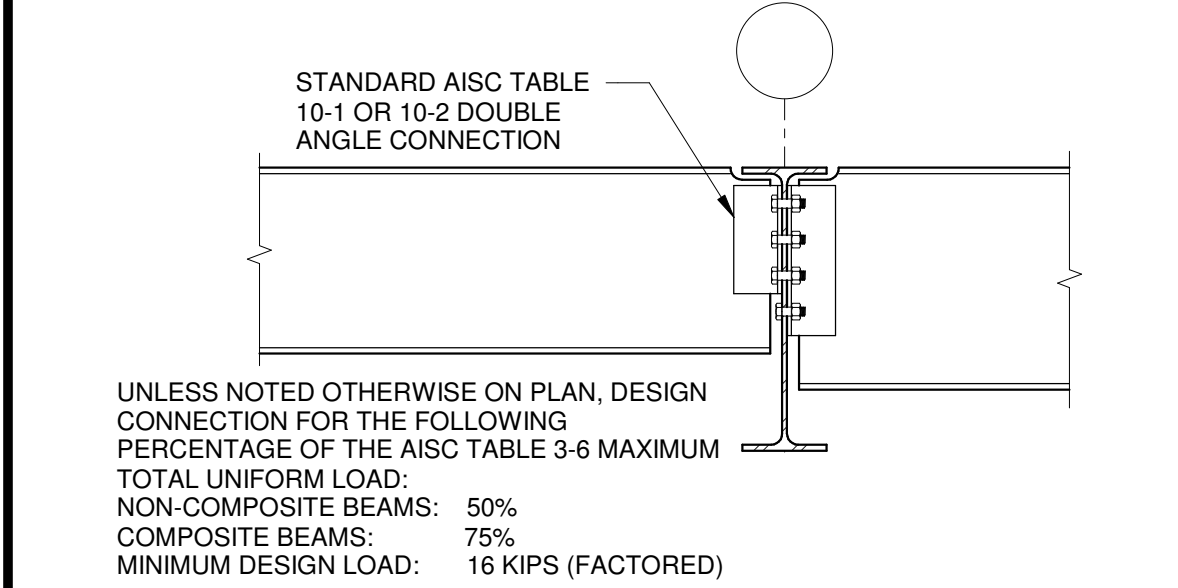
18 STEEL BEAM TO HSS COLUMN CONN

S8.5 3/4" = 1'-0"



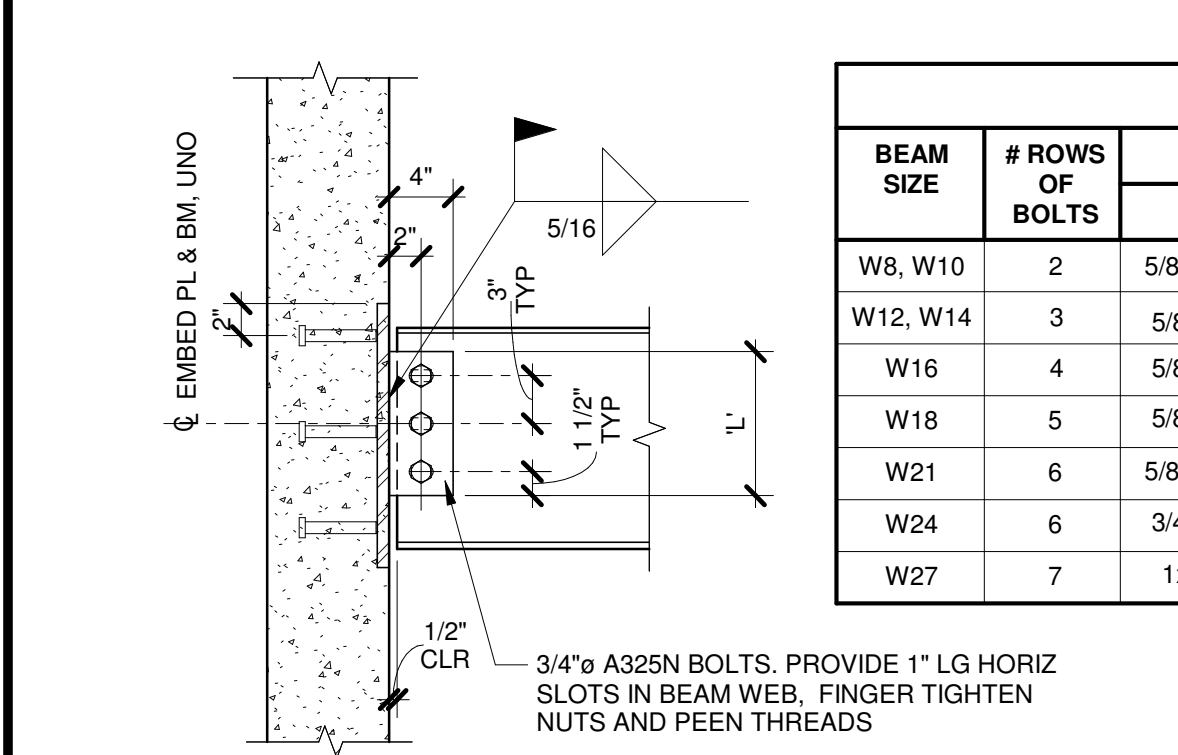
24 STEEL BEAM TO CONCRETE BEAM

S8.5 1" = 1'-0"



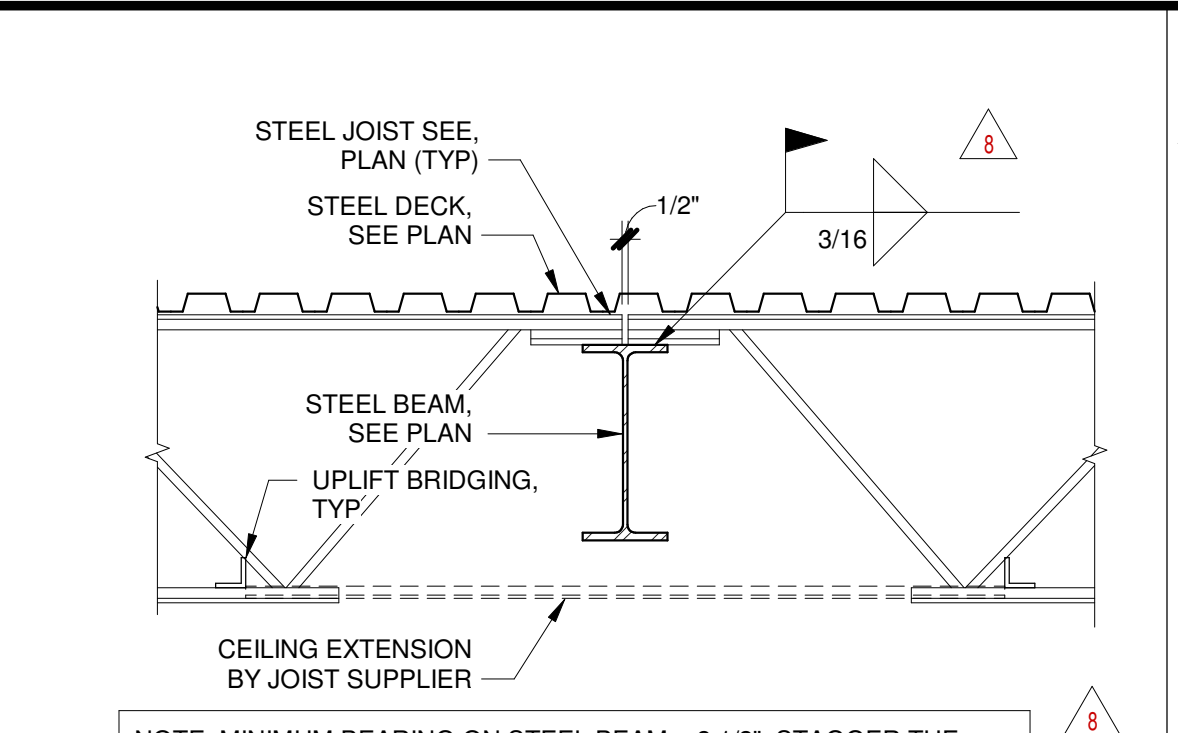
30 WF BEAM TO BEAM CONN

S8.5 3/4" = 1'-0"



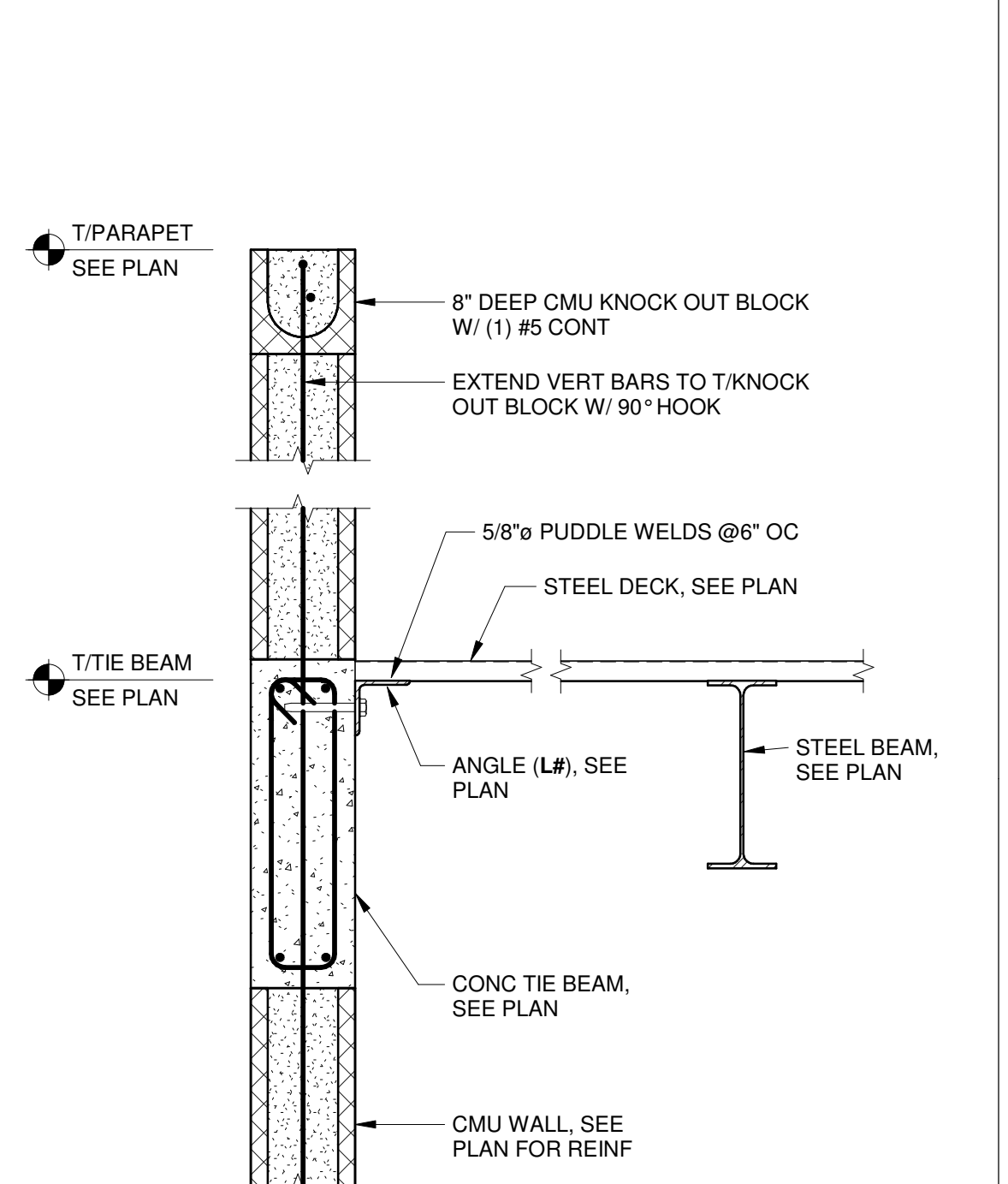
36 STEEL BEAM TO CONCRETE CONNECTION SCHEDULE

S8.5 1" = 1'-0"



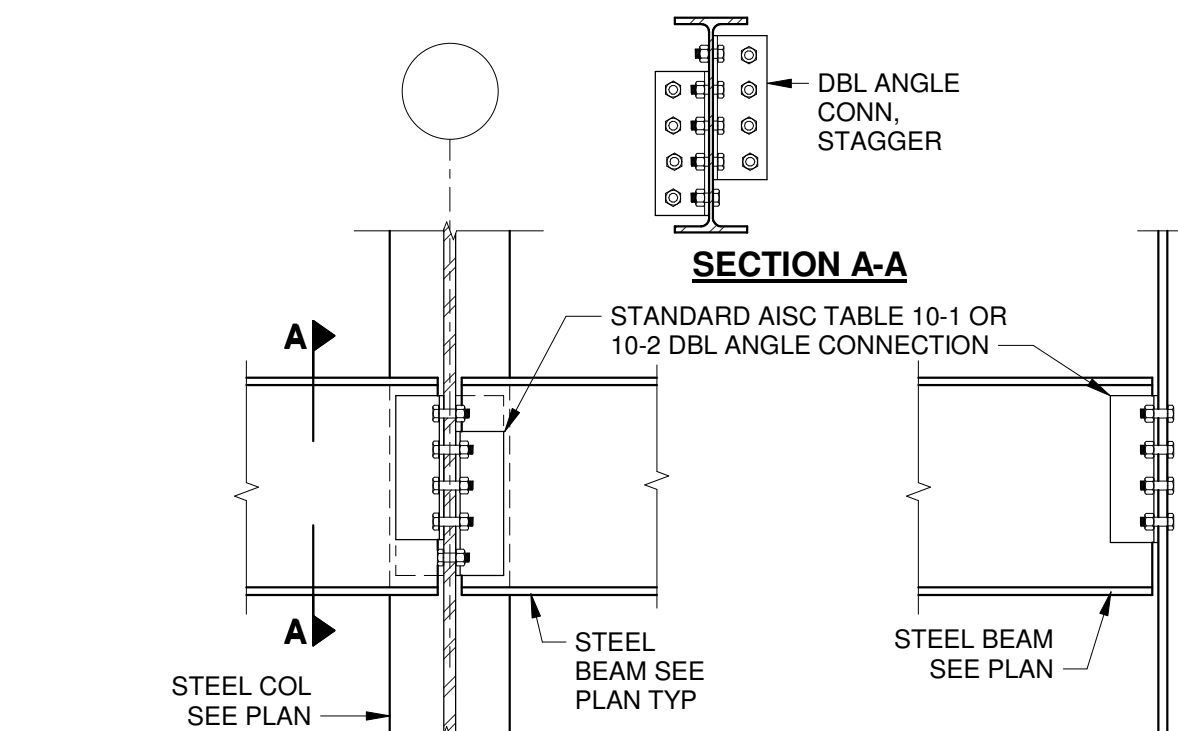
5 JOIST BRG AT STEEL BEAM

S8.5 3/4" = 1'-0"



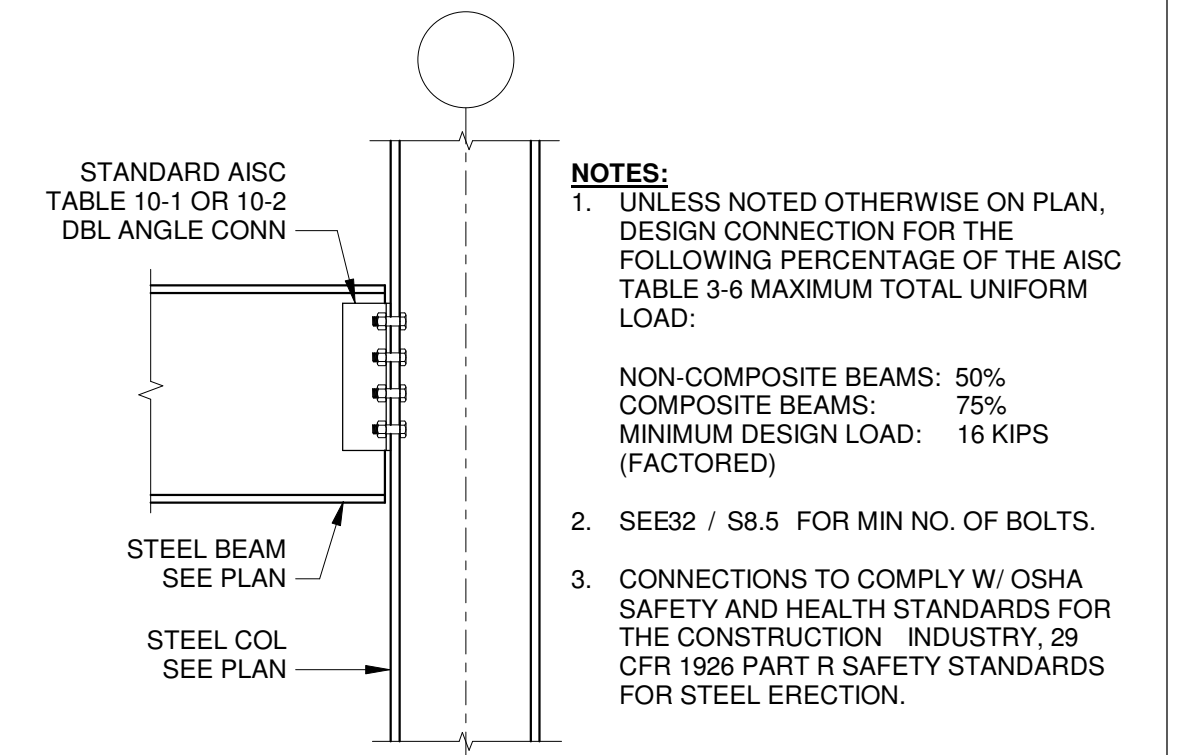
17 DECK SUPPORT AT CONCRETE TIE BEAM

S8.5 1" = 1'-0"



23 WF BEAM TO COLUMN CONNECTIONS

S8.5 3/4" = 1'-0"



29 WF BEAM TO COLUMN FLANGE CONN

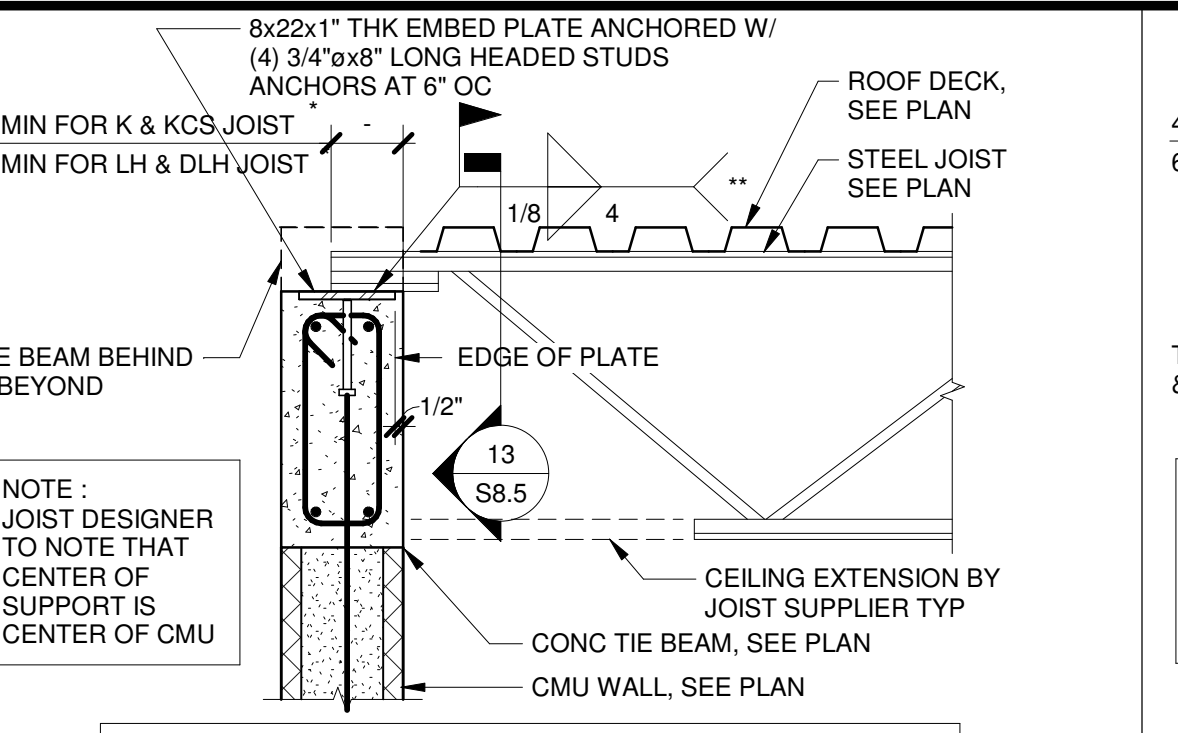
S8.5 3/4" = 1'-0"

SCHEDULE					
BEAM SIZE	# ROWS OF BOLTS	EMBED PLATE (PL)		GUSSET PL THICKNESS	L'
		PL	STUDS		
W8, W10	3	5/8x10x0'-10"	(4) 3/4"x4 7/8" LG	3/8"	6"
W12, W14	3	5/8x10x1'-2"	(6) 3/4"x4 7/8" LG	3/8"	9"
W16	4	5/8x10x1'-6"	(6) 3/4"x4 7/8" LG	3/8"	12"
W18	5	5/8x10x1'-6"	(6) 3/4"x4 7/8" LG	3/8"	15"
W21	6	5/8x10x1'-11"	(6) 3/4"x5" LG	3/8"	18"
W24	6	3/4x12x2'-0"	(6) 1"x6" LG	3/8"	18"
W27	7	1x12x2'-3"	(6) 1"x6" LG	3/8"	21"

*LONG DIMENSION VERTICAL

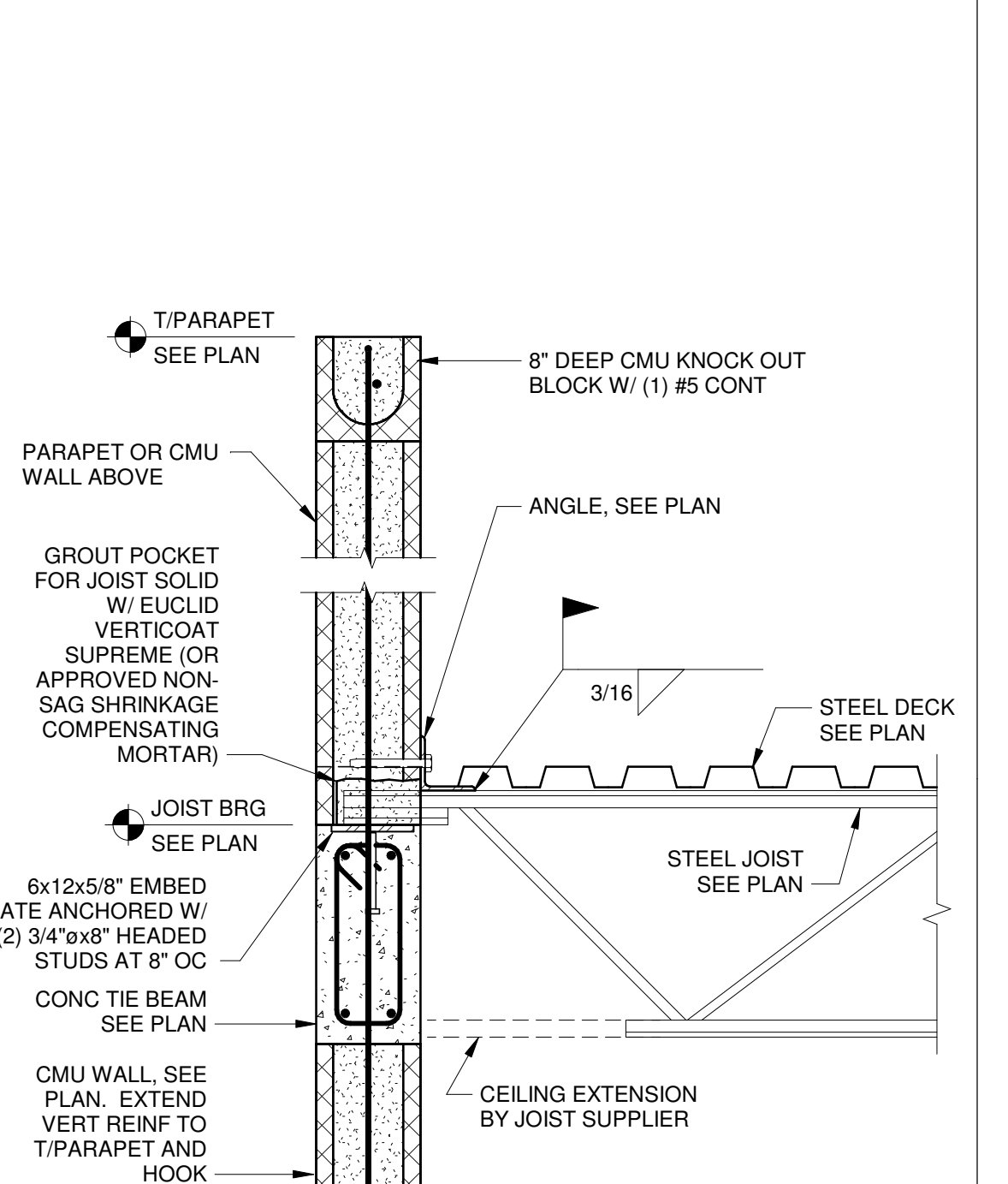
34 STEEL BEAM TO HSS COLUMN CONN

S8.5 3/4" = 1'-0"



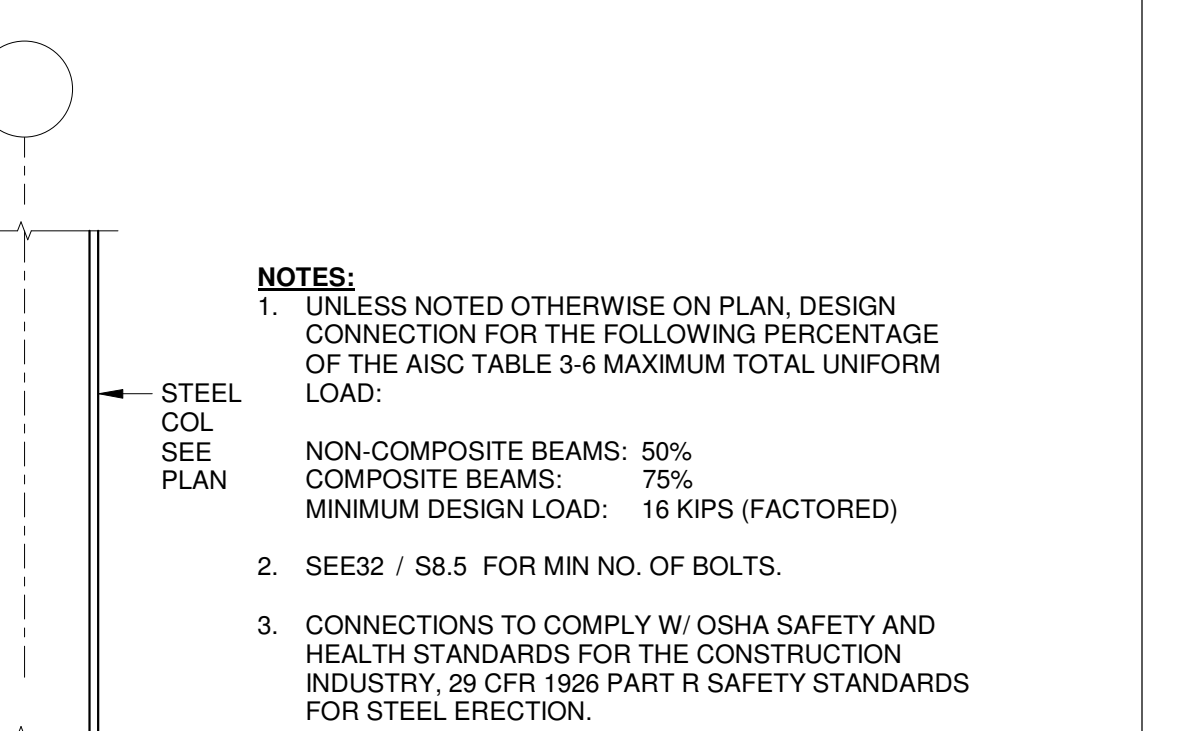
4 JOIST END BRG ON CMU WALL

S8.5 1" = 1'-0"



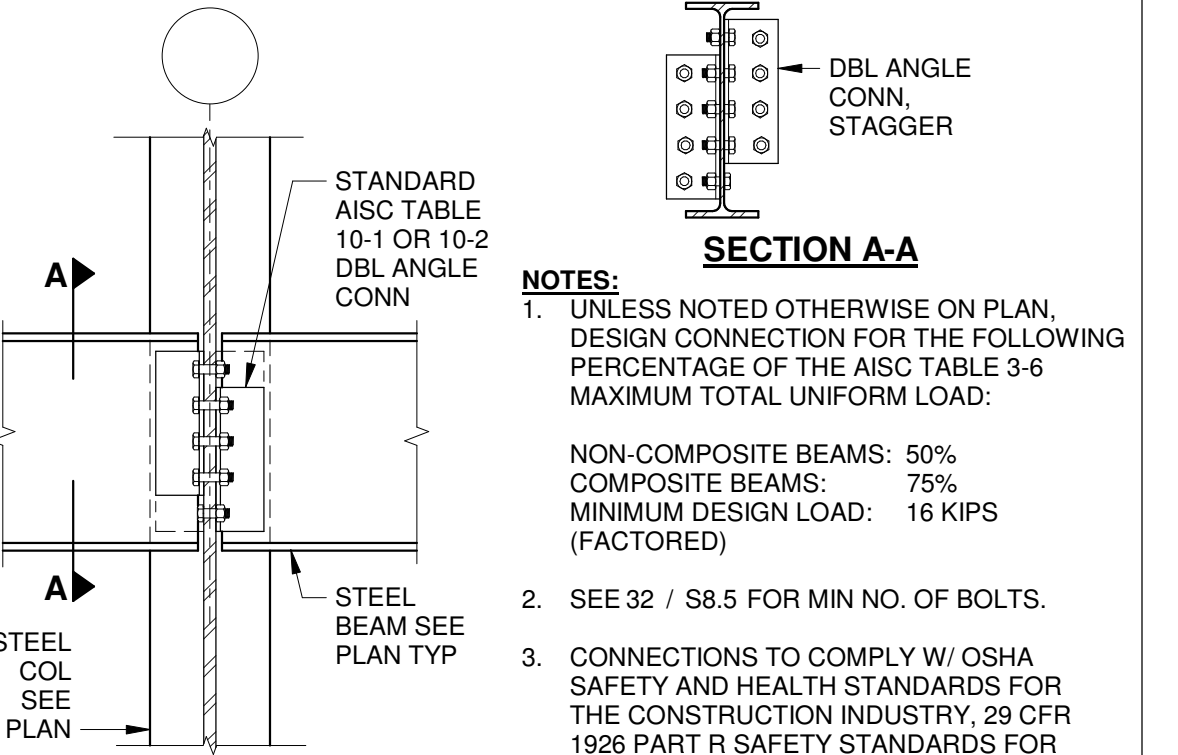
16 JOIST END BRG AT CMU PARAPET WALL

S8.5 1" = 1'-0"



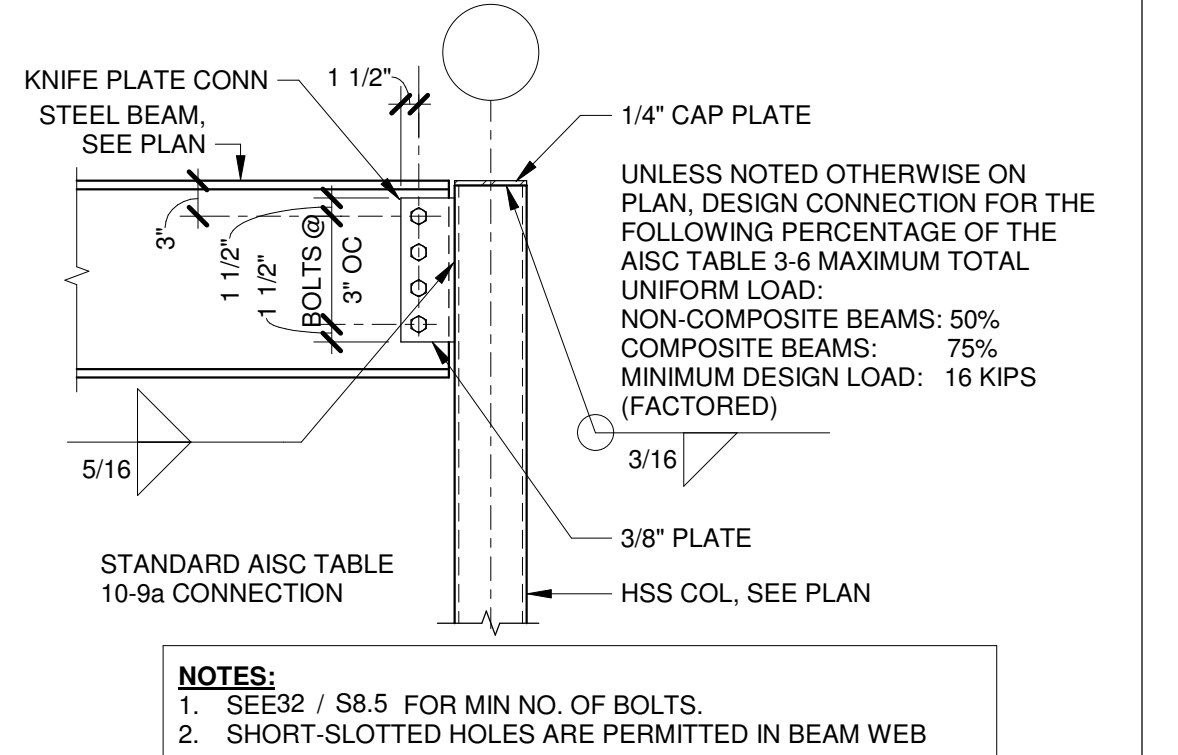
28 WF BEAM TO COLUMN WEB CONN

S8.5 3/4" = 1'-0"



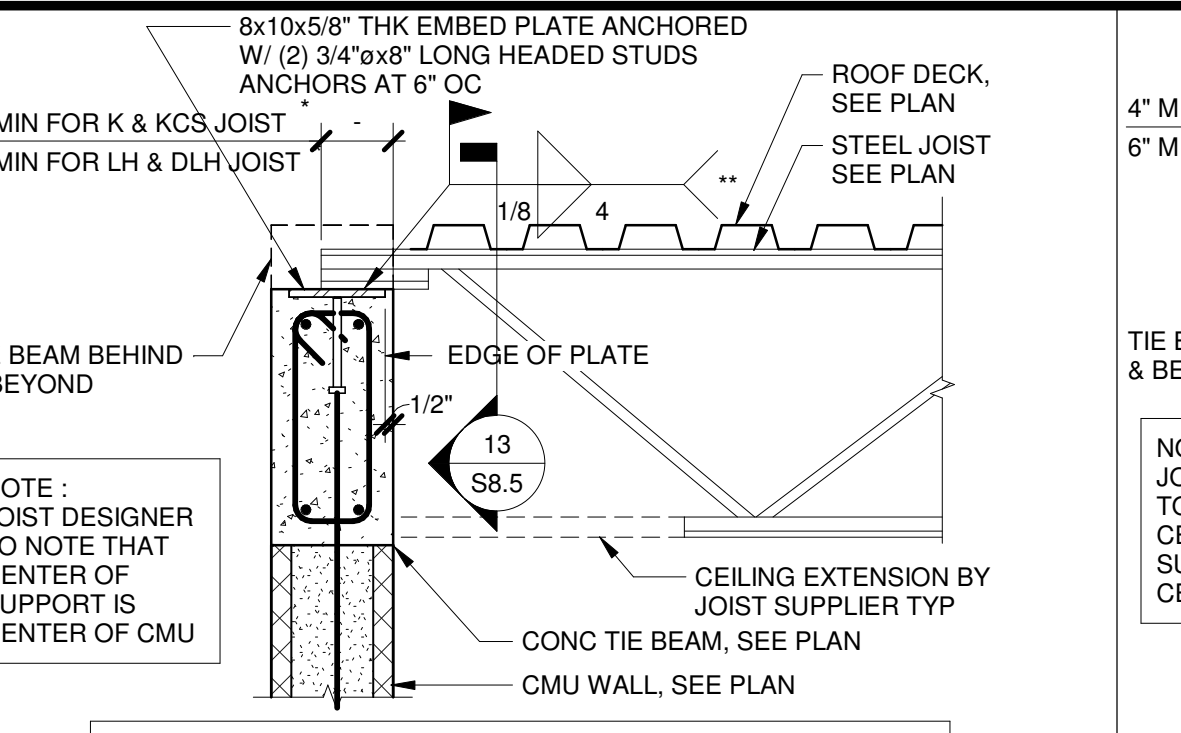
28 WF BEAM TO COLUMN WEB CONN

S8.5 3/4" = 1'-0"



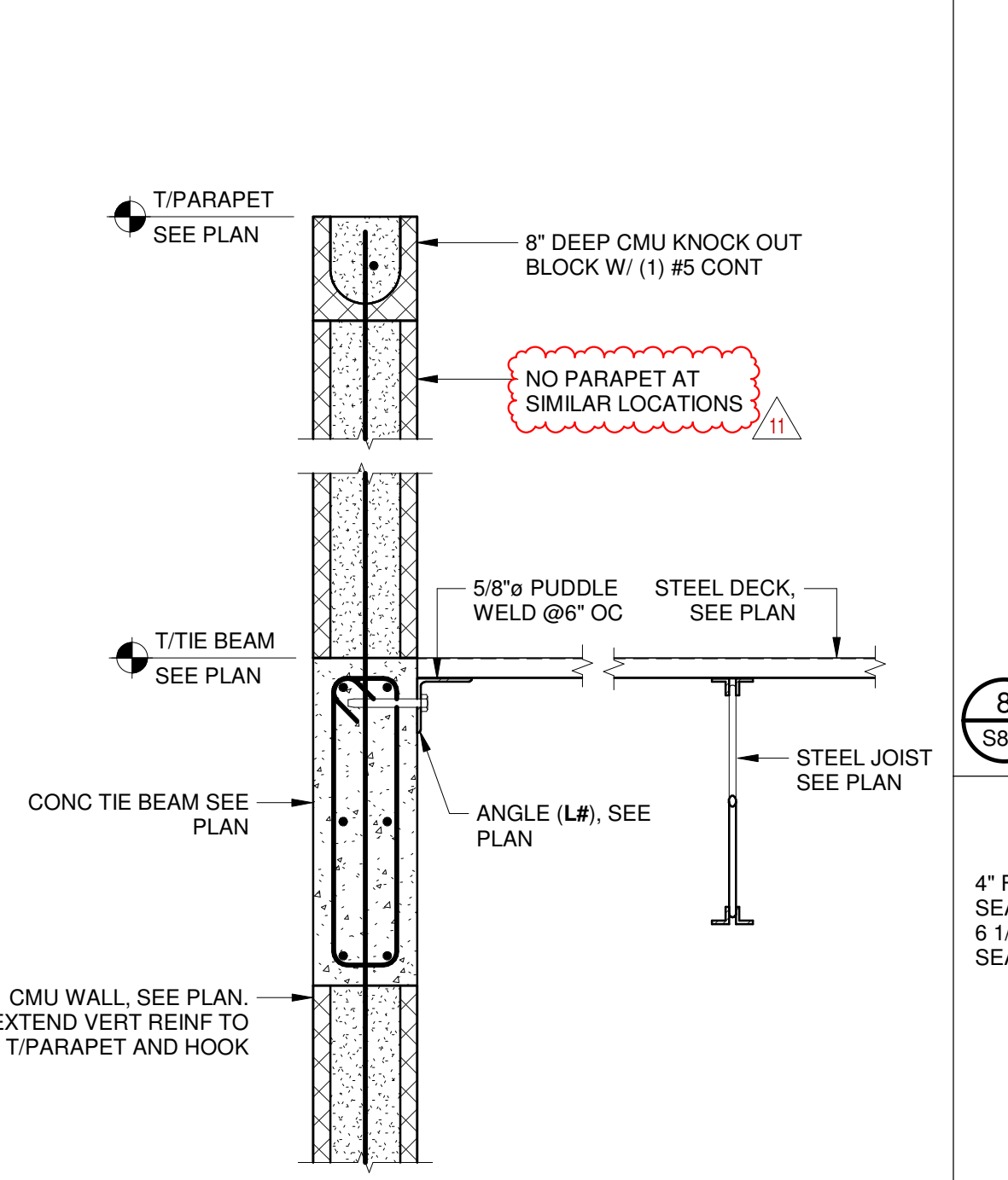
34 STEEL BEAM TO HSS COLUMN CONN

S8.5 3/4" = 1'-0"



3 JOIST END BRG ON CMU WALL

S8.5 1" = 1'-0"



15 DECK BRG AT CONCRETE BEAM

S8.5 1" = 1'-0"



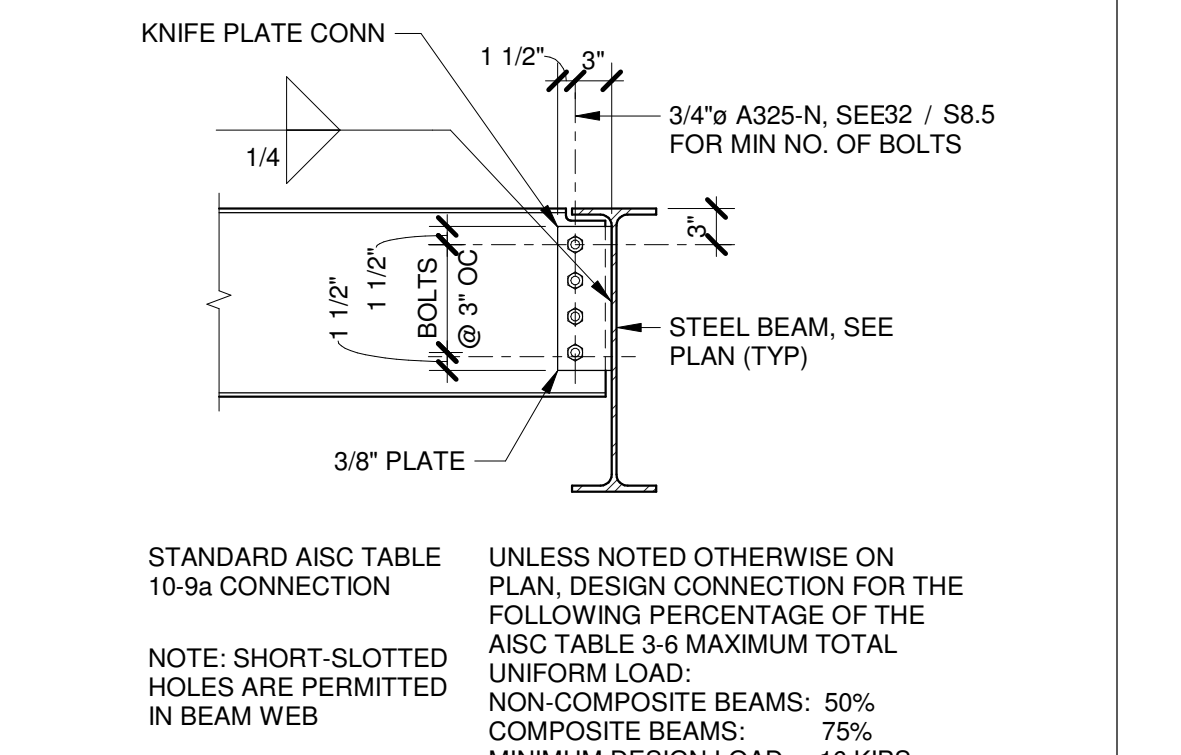
28 WF BEAM TO COLUMN WEB CONN

S8.5 3/4" = 1'-0"



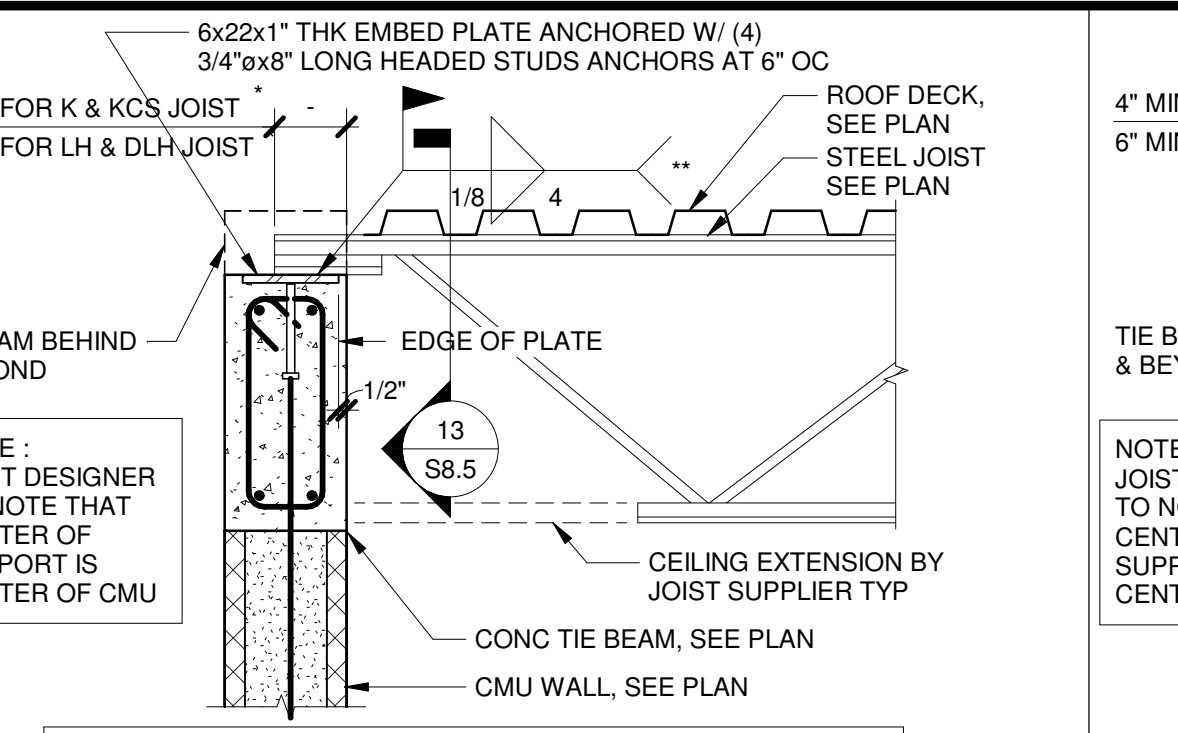
28 WF BEAM TO COLUMN WEB CONN

S8.5 3/4" = 1'-0"



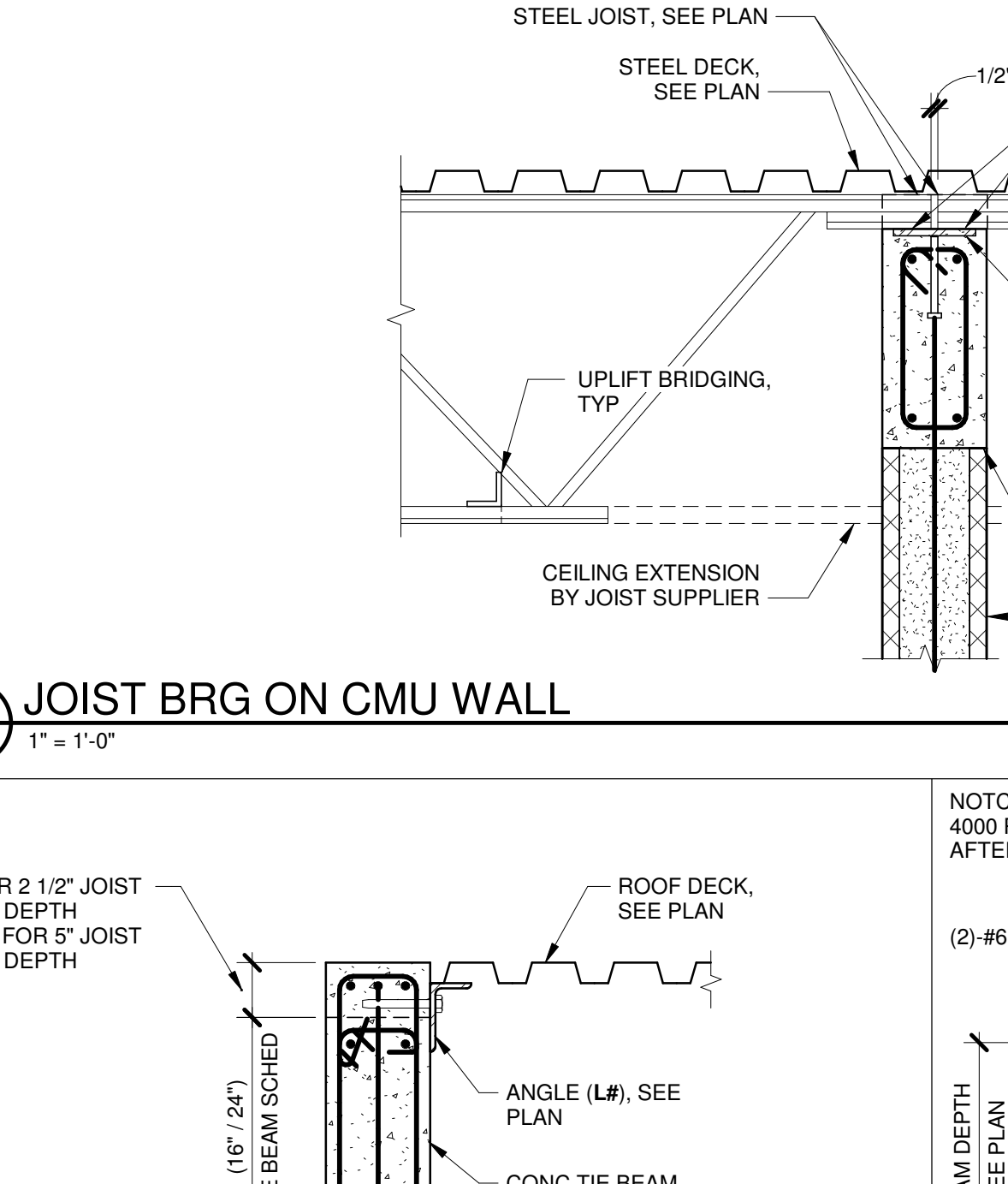
33 ALTERNATE WF BEAM TO BEAM CONN

S8.5 3/4" = 1'-0"



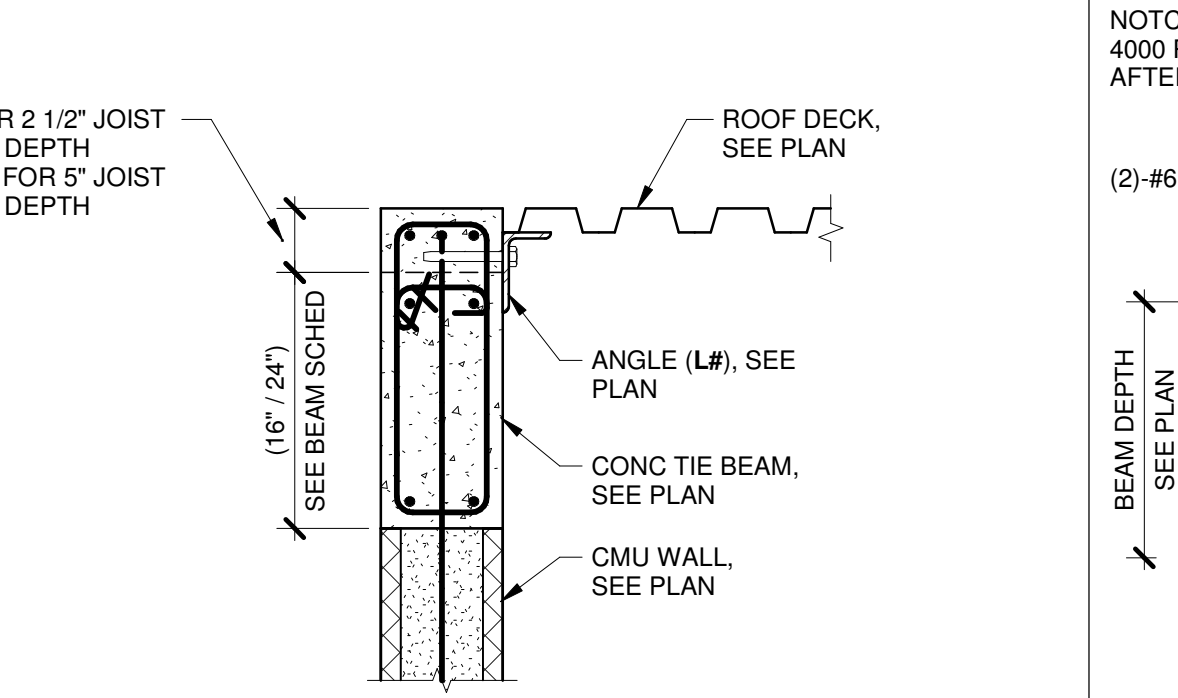
2 JOIST END BRG ON CMU WALL

S8.5 1" = 1'-0"



8 JOIST BRG ON CMU WALL

S8.5 1" = 1'-0"



14 SECTION

S8.5 1" = 1'-0"



14 SECTION

S8.5 1" = 1'-0"



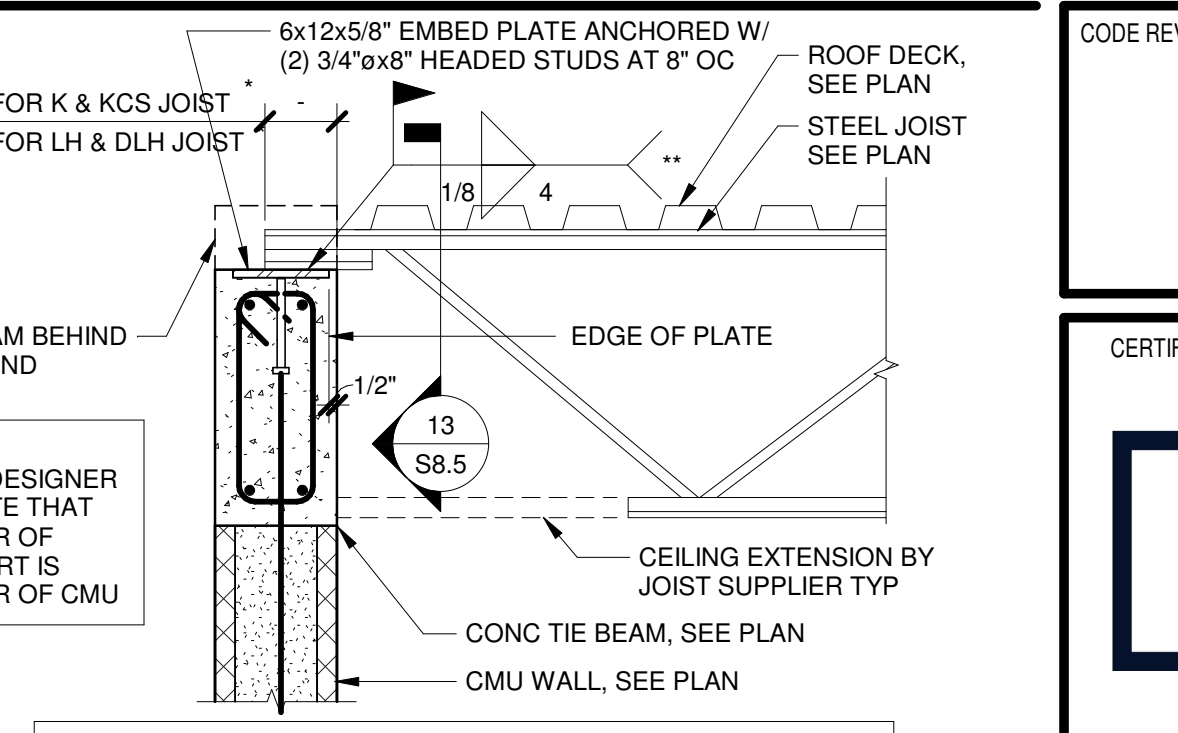
14 SECTION

S8.5 1" = 1'-0"

CONNECTION SCHEDULE		
BEAM SIZE	MIN NO. 3/4" A325 BOLTS PER ANGLE LEG	MIN NO. 3/4" A325 BOLTS KNIFE PLATE CONNECTION
W10	2	2
W12, W14	3	3
W16	4	4
W18	5	5
W21	6	6
W24, W27	7	7
W30	8	8
W33	9	9
W36	10	10
W40	11	11
W44	12	12

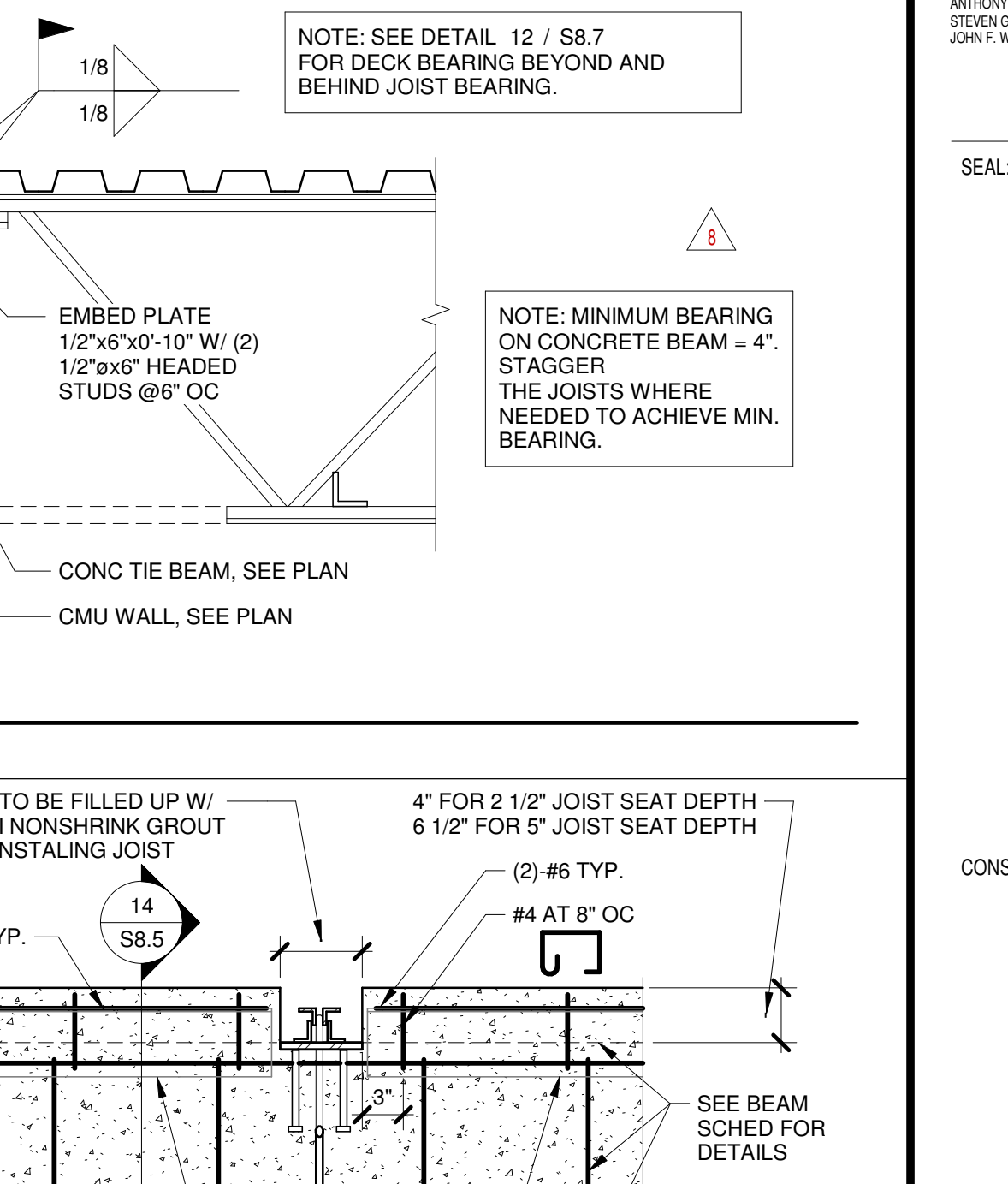
32 MIN REQTS FOR WF BM TO COL & BM TO BM CONNECTION SCHEDULE

S8.5 3/4" = 1'-0"



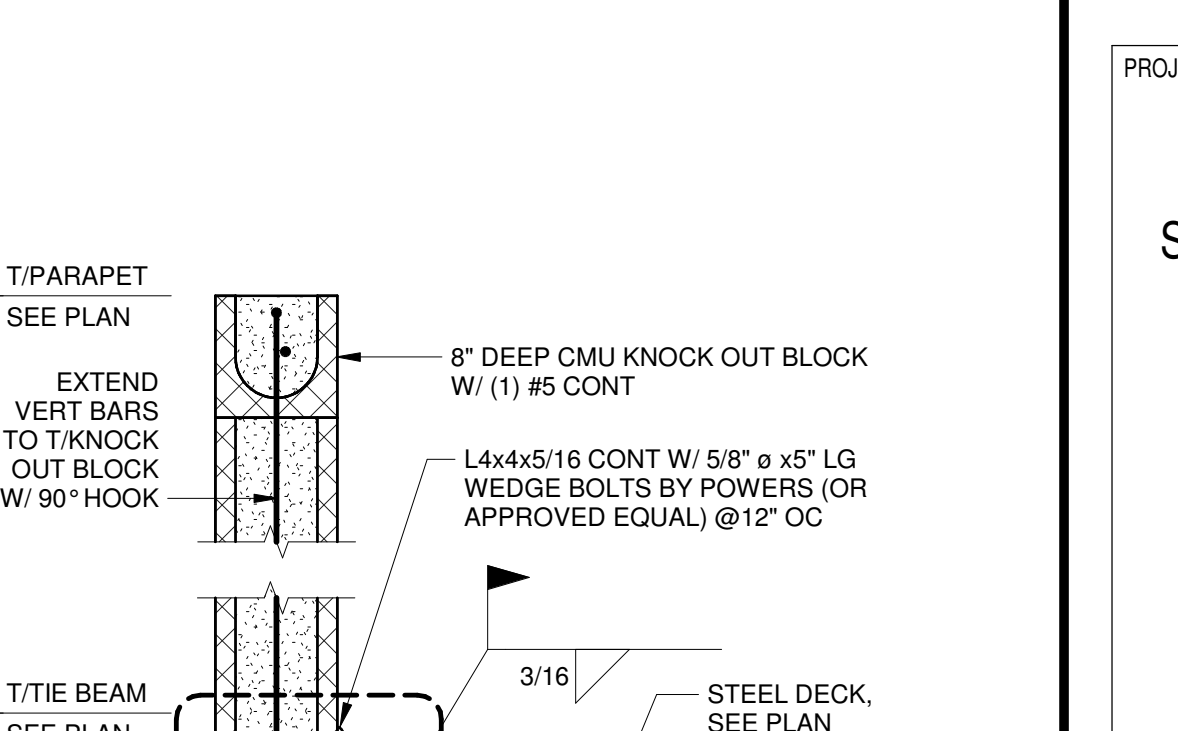
1 JOIST END BRG ON CMU WALL

S8.5 1" = 1'-0"



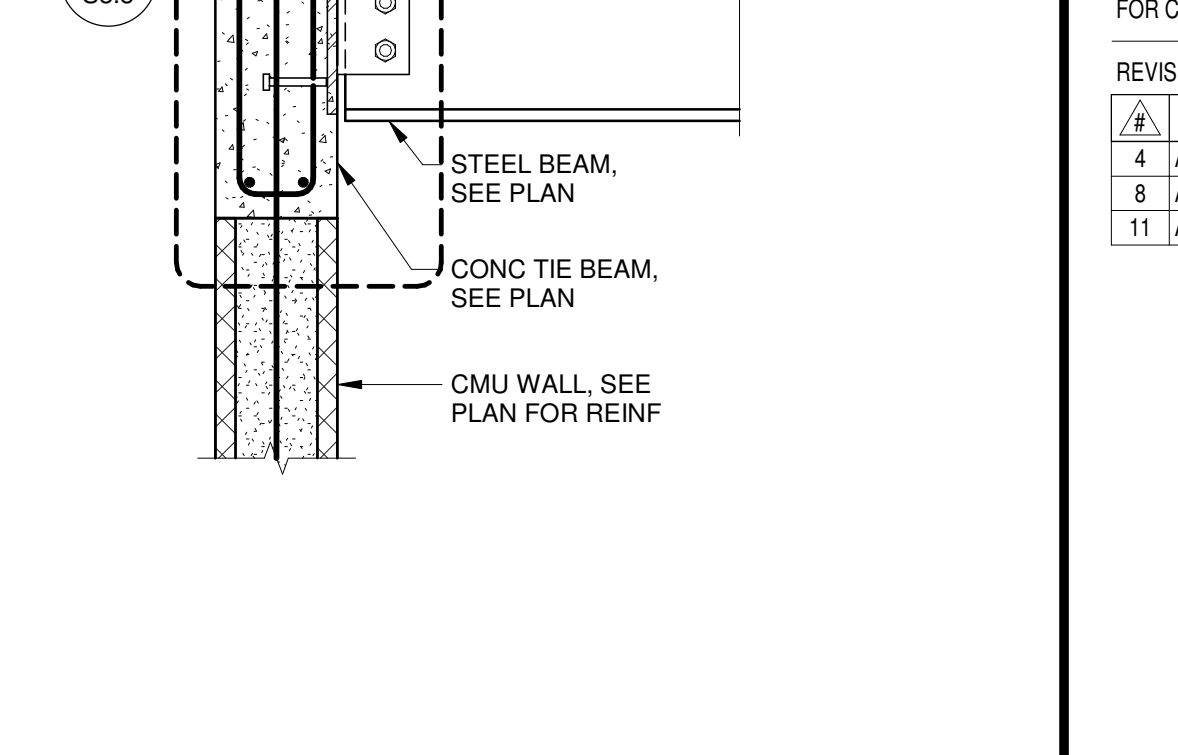
13 SECTION

S8.5 1" = 1'-0"



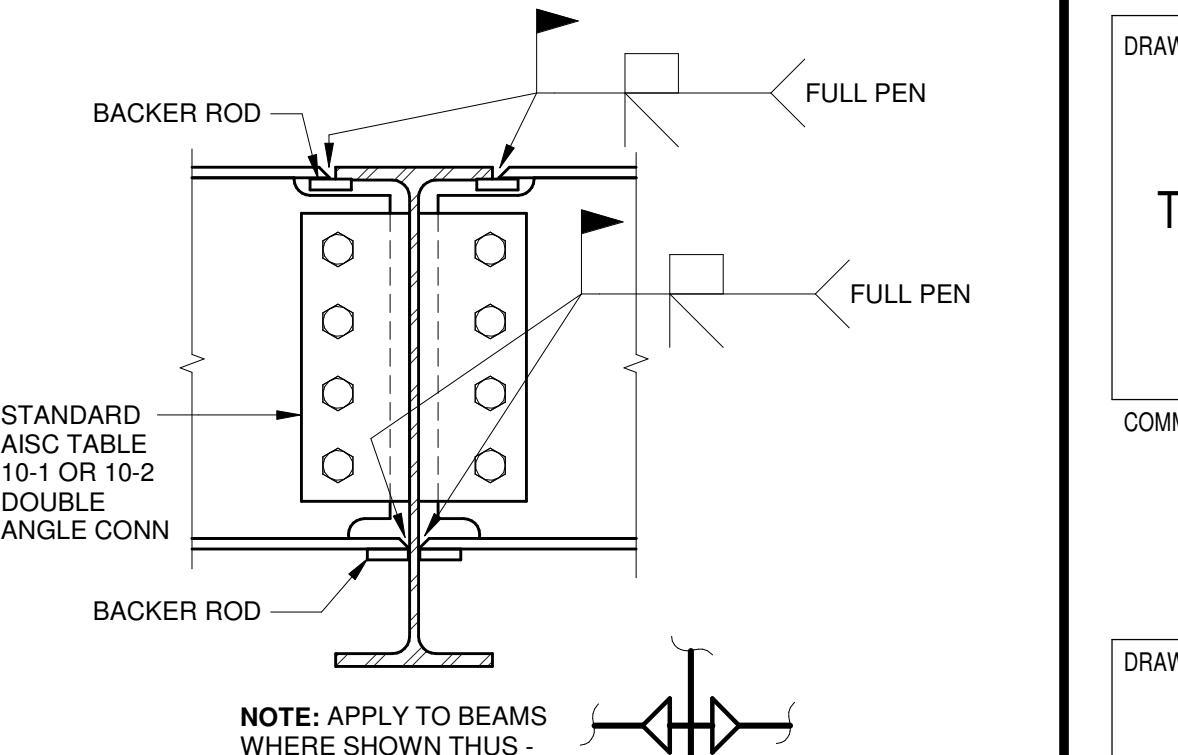
25 STEEL BEAM TO CONCRETE BEAM

S8.5 1" = 1'-0"



25 STEEL BEAM TO CONCRETE BEAM

S8.5 1" = 1'-0"



31 GRAVITY BEAM MOMENT CONN

S8.5 1 1/2" = 1'-0"

CODE REVIEW:

CERTIFICATE:

spieze

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STEVEN G. REEL
JOINT: 8/8/21

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COMMISSION NUMBER:

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DRAWING TITLE:

TYPICAL STEEL DETAILS

DO NOT SCALE THE DRAWINGS

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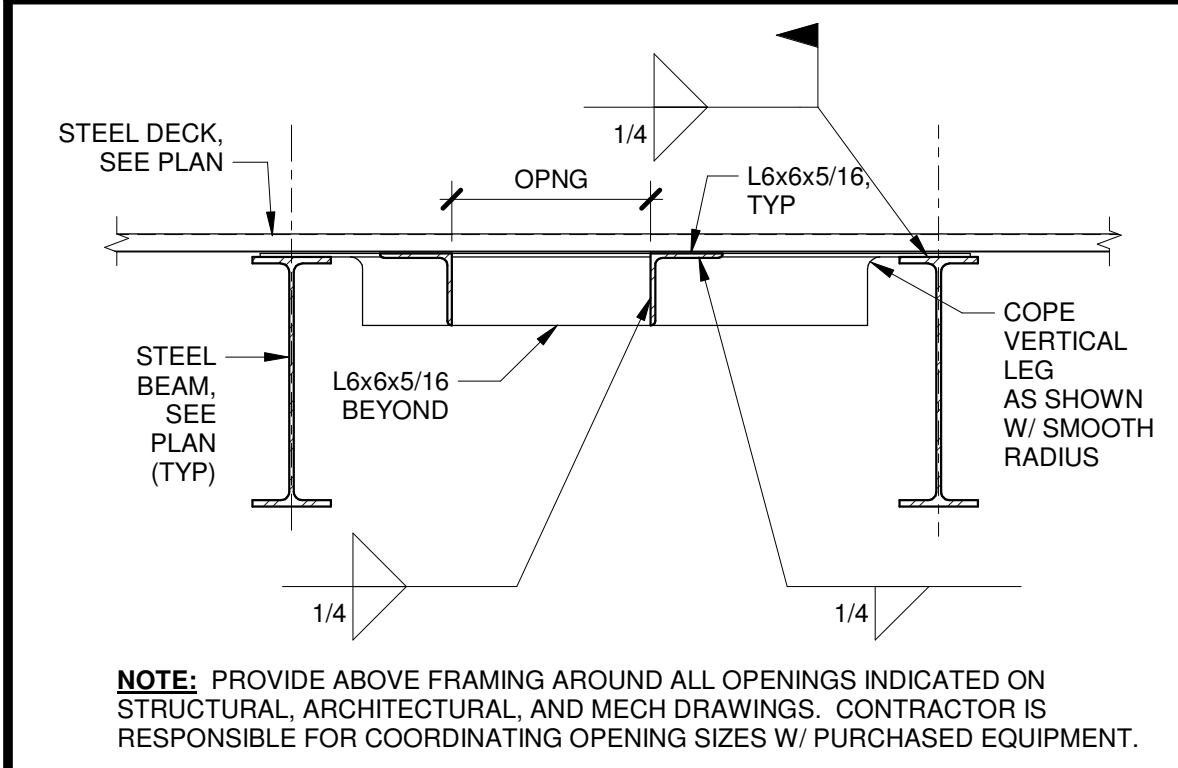
S8.5

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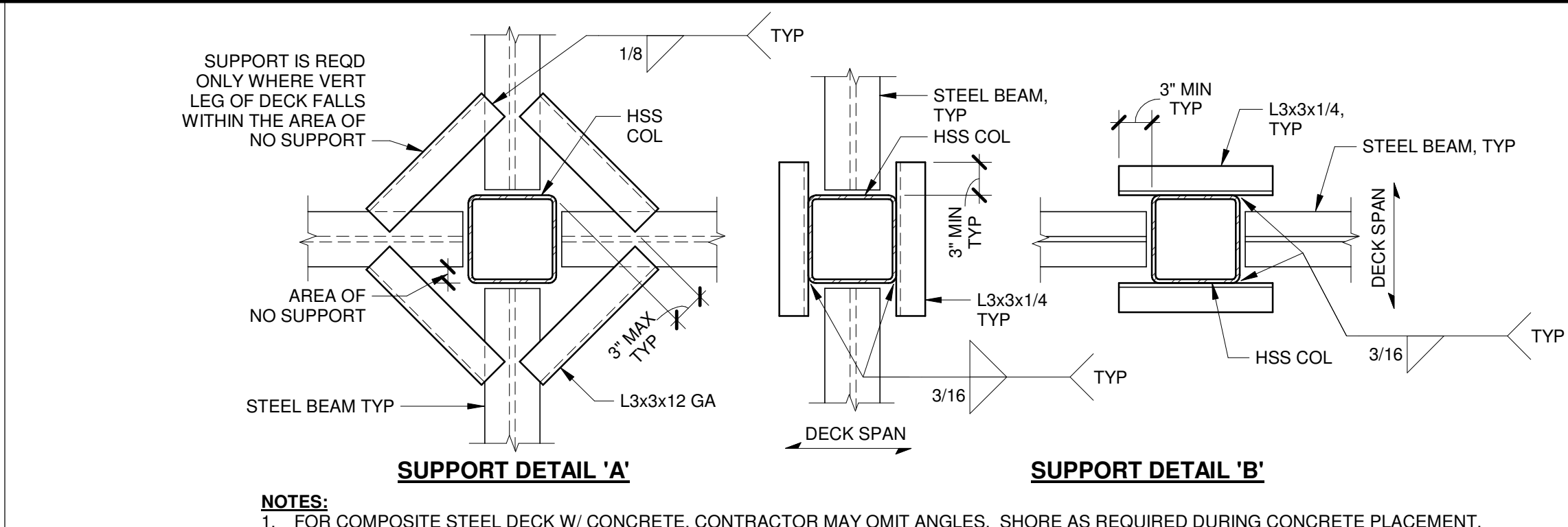
Autodesk Docs://24K054 - St Lucie WG K8/Western Grove K8 - SLPS_R24.rvt

THIS DRAWING IS FORMATTED TO BE PRINTED AT 30"x42"



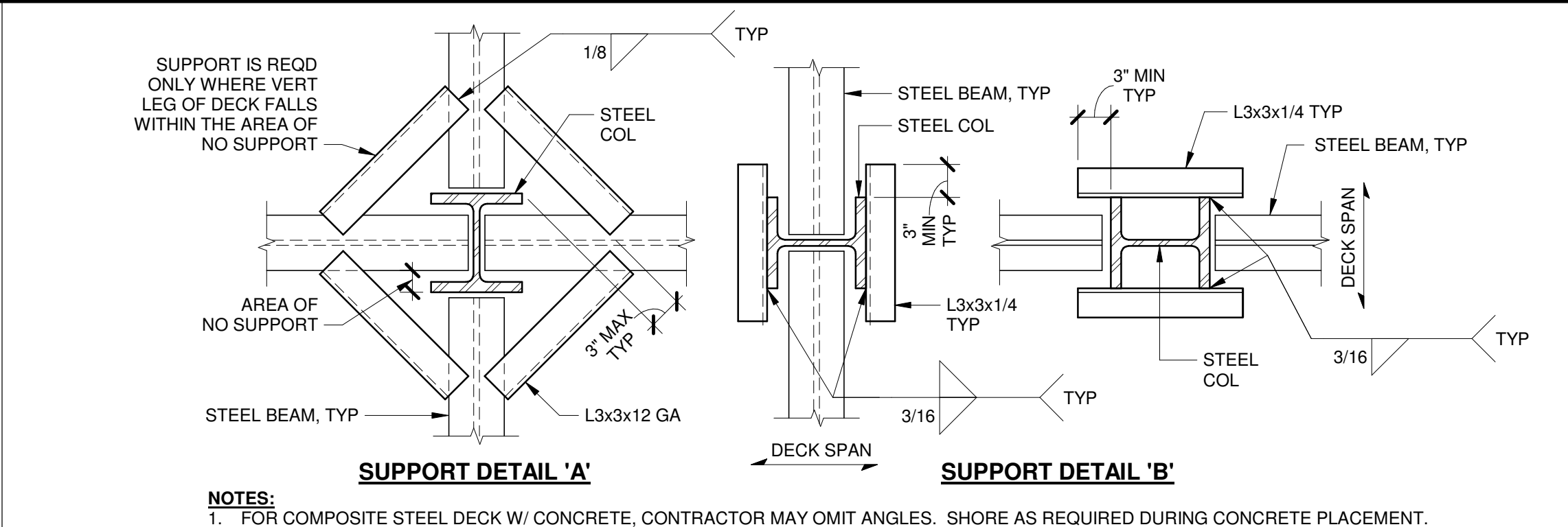
6 ROOF OPENING DETAIL

S8.8 3/4" = 1'-0"



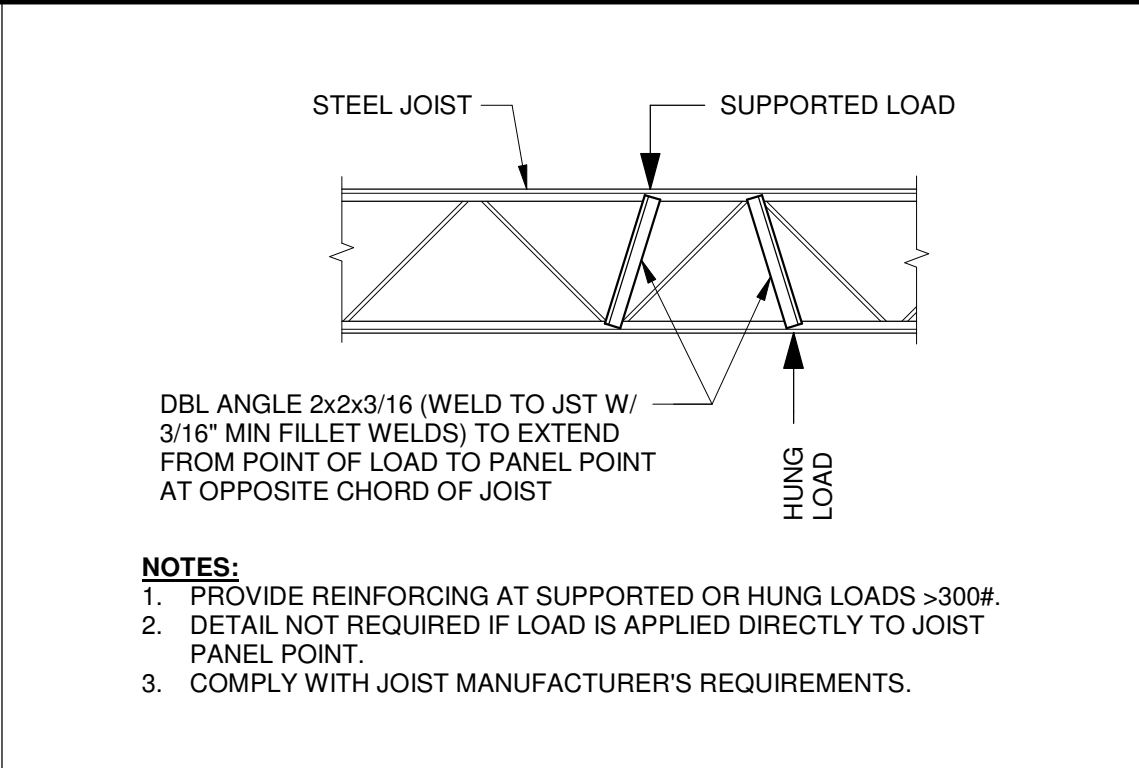
5 DECK SUPPORT AT HSS COLUMN

S8.8 1" = 1'-0"



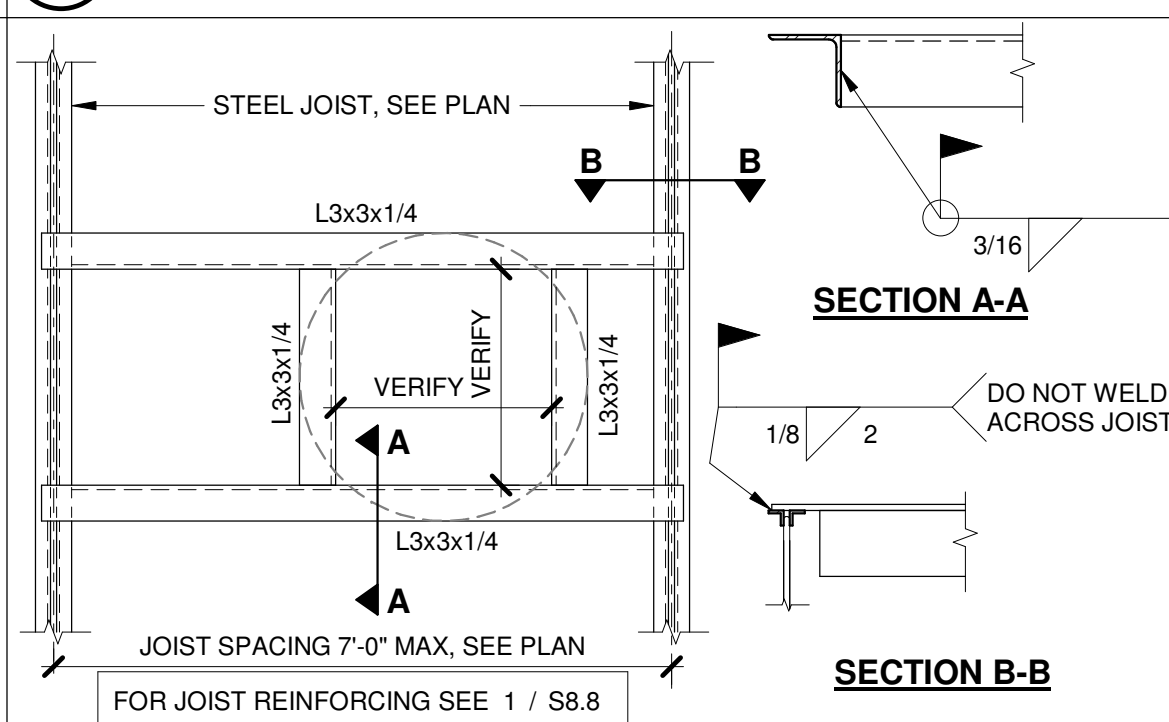
3 DECK SUPPORT AT WF COLUMN

S8.8 1" = 1'-0"



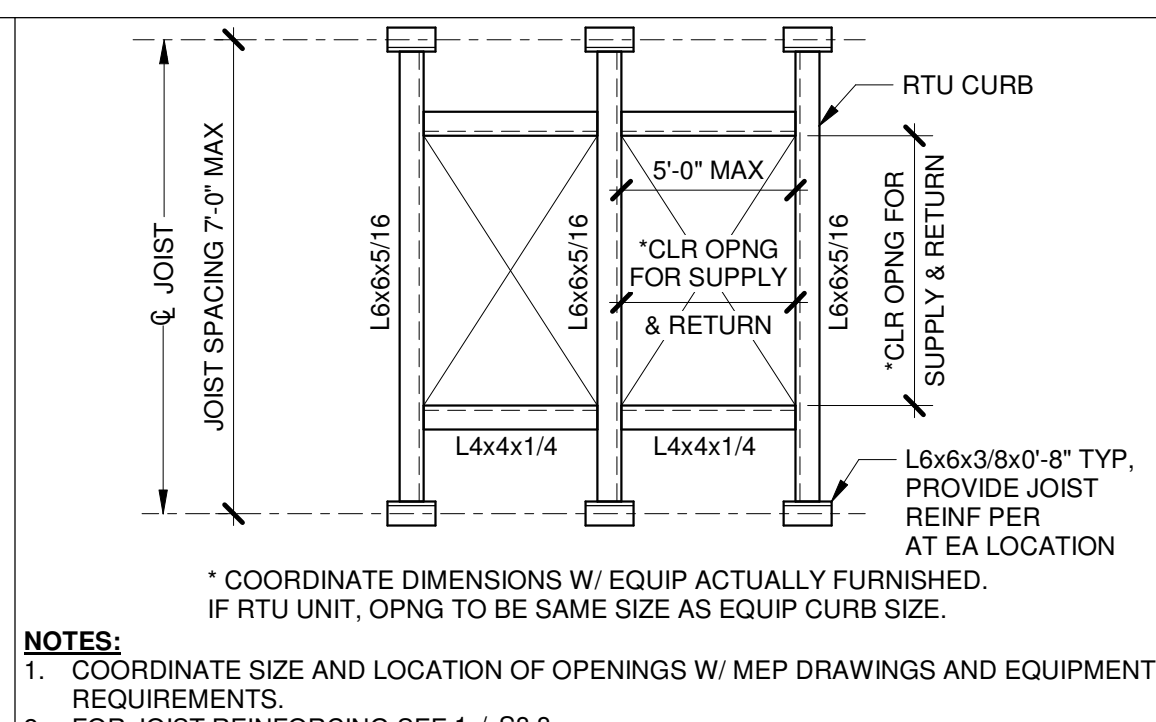
1 JOIST REINFORCING AT POINT LOADS

S8.8 3/4" = 1'-0"



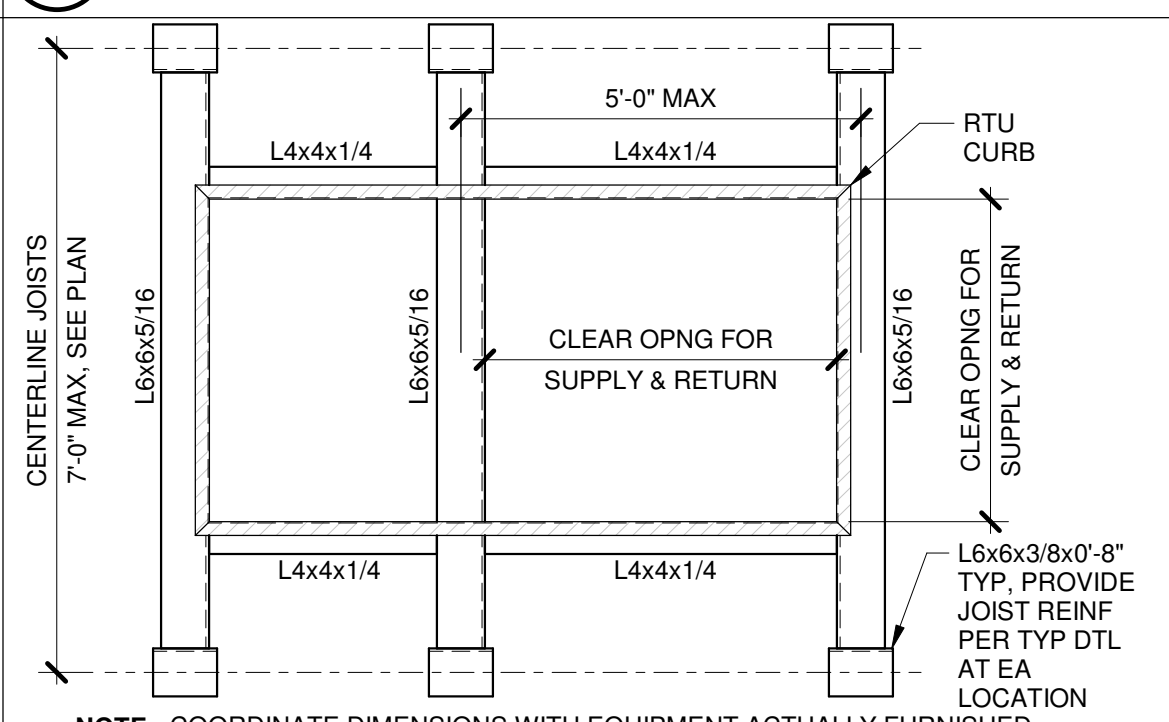
11 ROOF DRAIN SUPPORT FRAMING AT STEEL JOISTS

S8.8 3/4" = 1'-0"



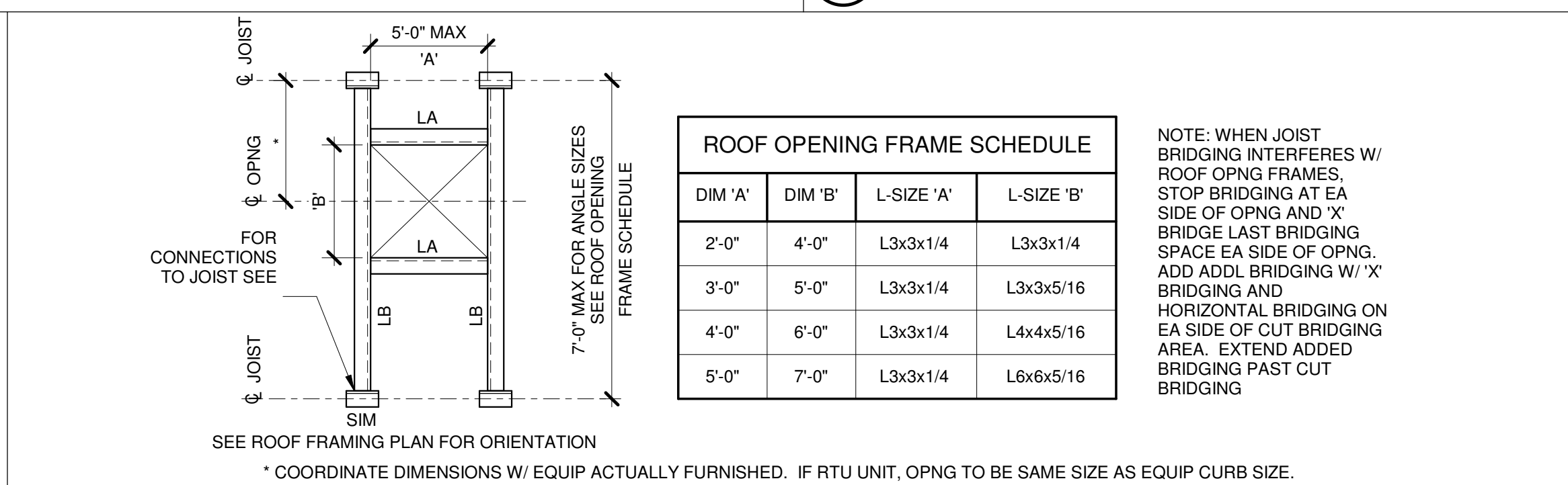
10 ROOF OPENING / EQUIPMENT SUPPORT FRAME

S8.8 3/4" = 1'-0"



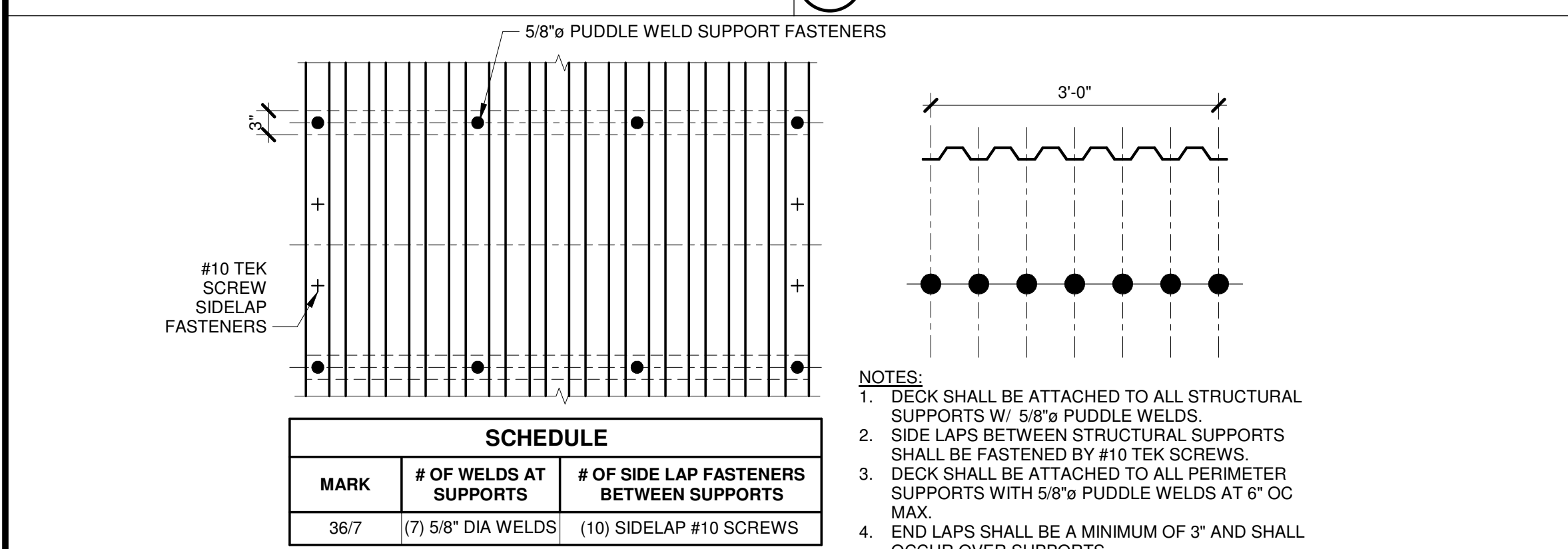
9 ROOF OPENING/EQUIPMENT SUPPORT FRAME

S8.8 1/2" = 1'-0"



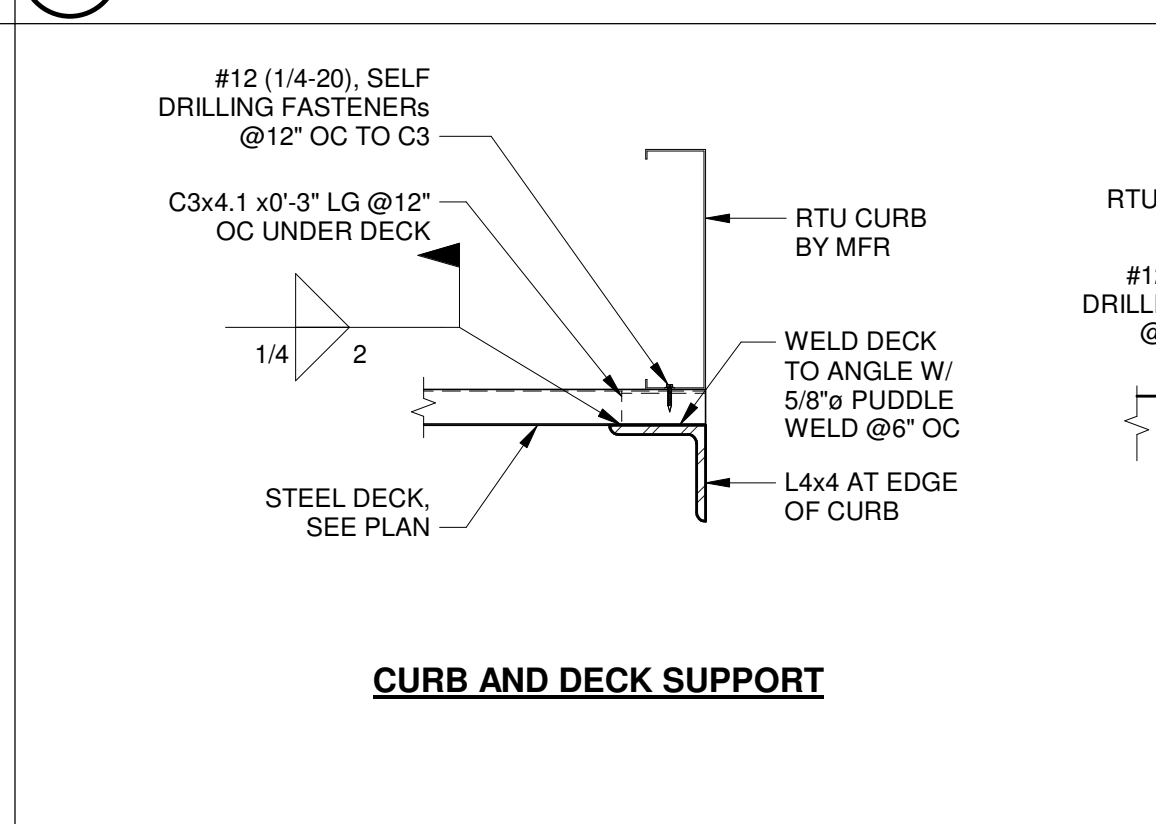
8 ROOF OPENING / EQUIP SUPPORT FRAME

S8.8 3/4" = 1'-0"



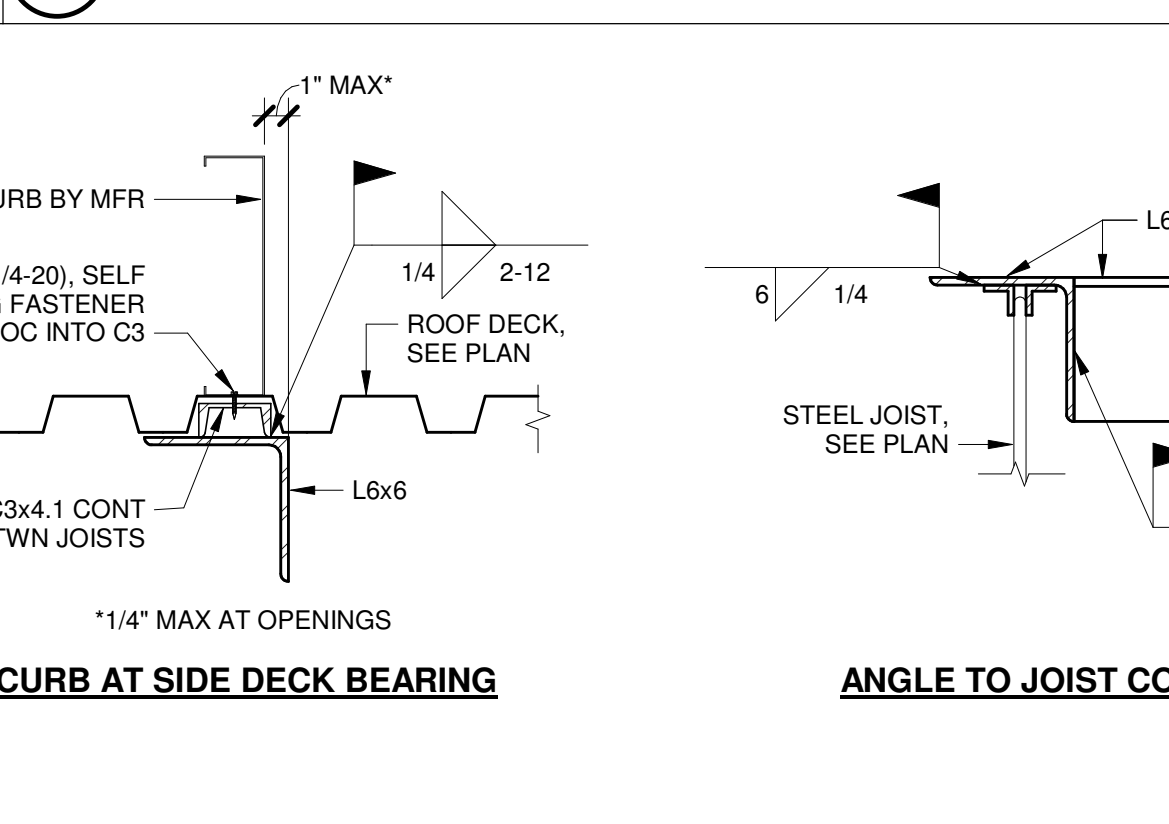
18 ROOF DECK ATTACHMENT SCHEDULE

S8.8 3/4" = 1'-0"



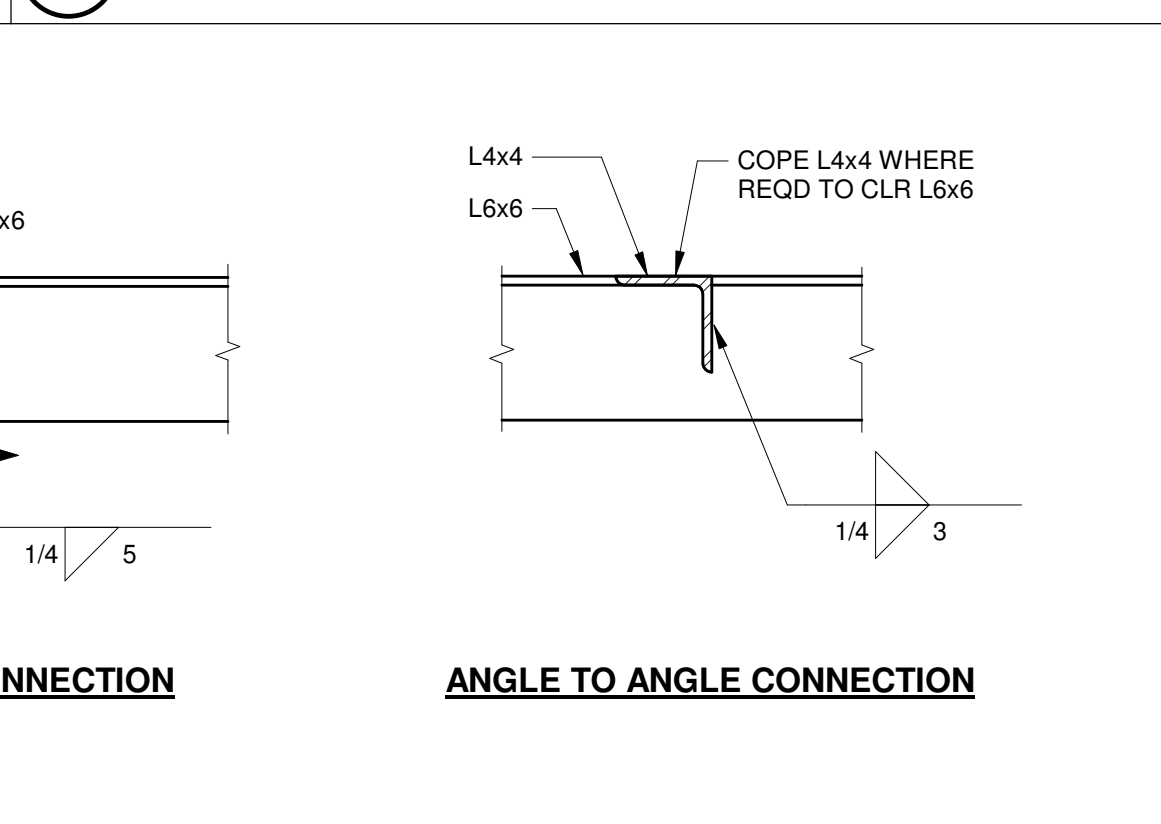
16 ROOF OPENING/EQUIPMENT SUPPORT FRAME CONNECTION DETAILS

S8.8 1 1/2" = 1'-0"



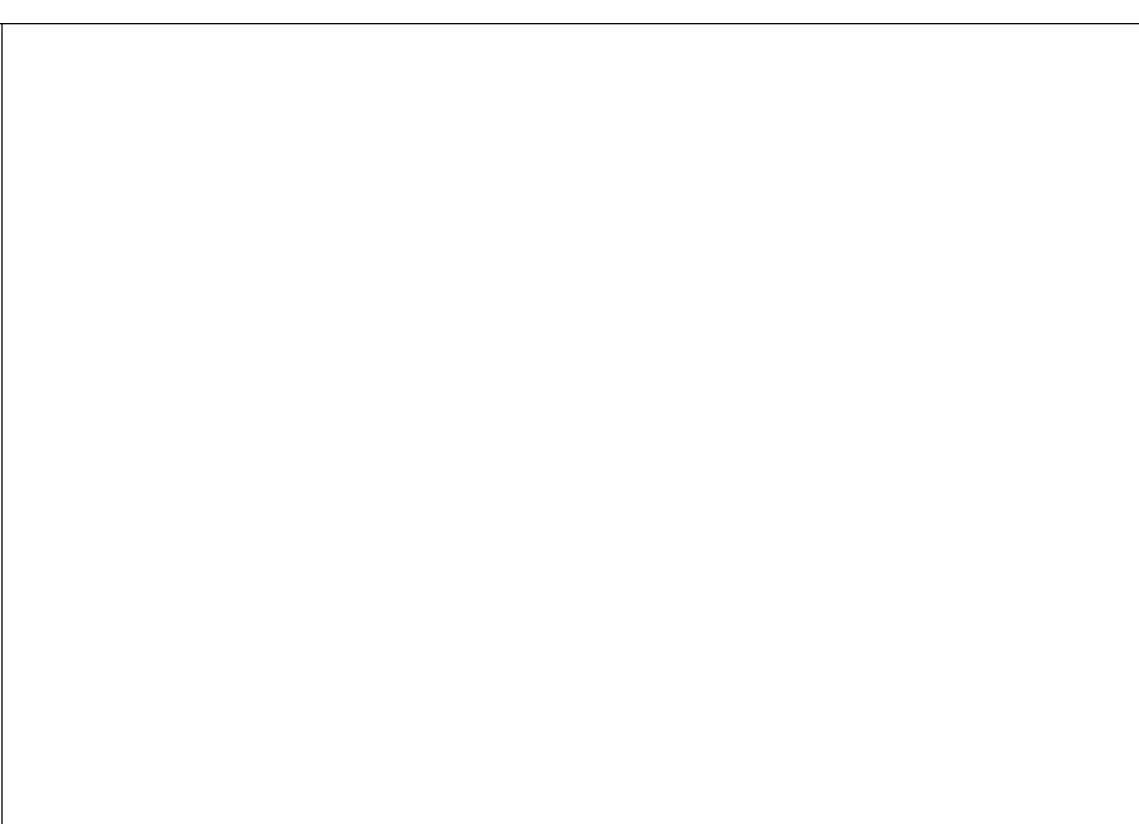
16 ROOF OPENING/EQUIPMENT SUPPORT FRAME CONNECTION DETAILS

S8.8 1 1/2" = 1'-0"



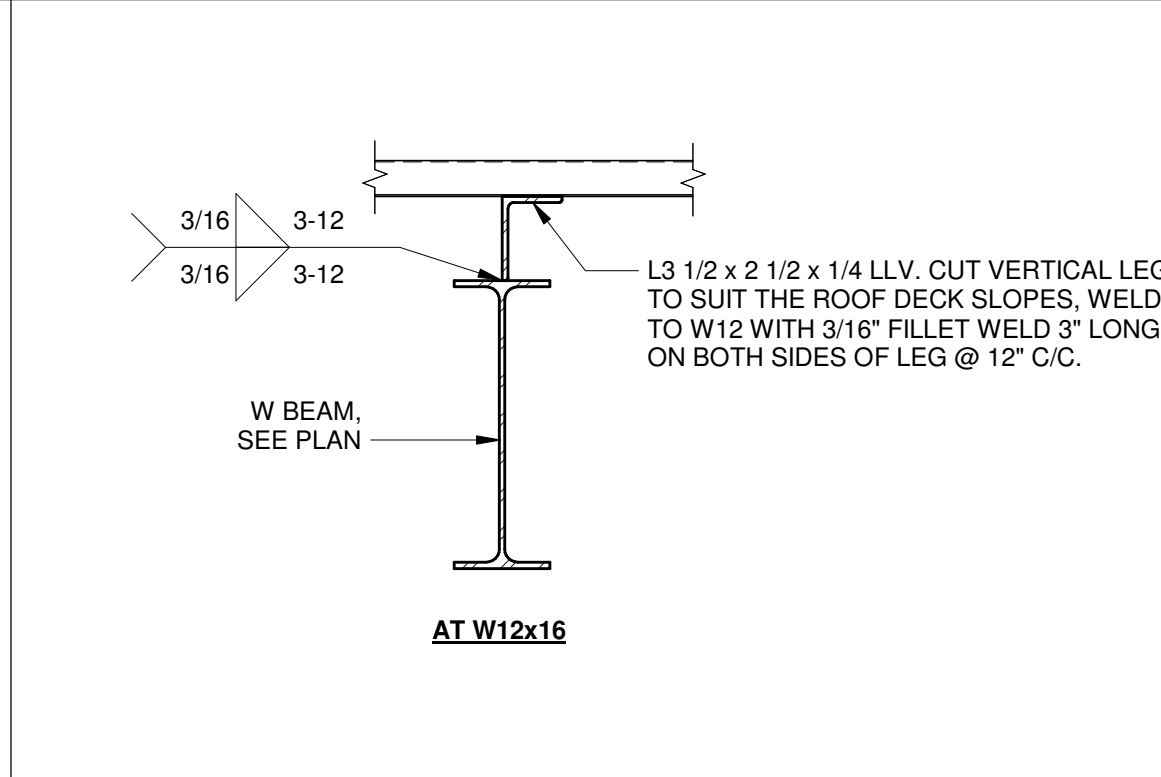
16 ROOF OPENING/EQUIPMENT SUPPORT FRAME CONNECTION DETAILS

S8.8 1 1/2" = 1'-0"



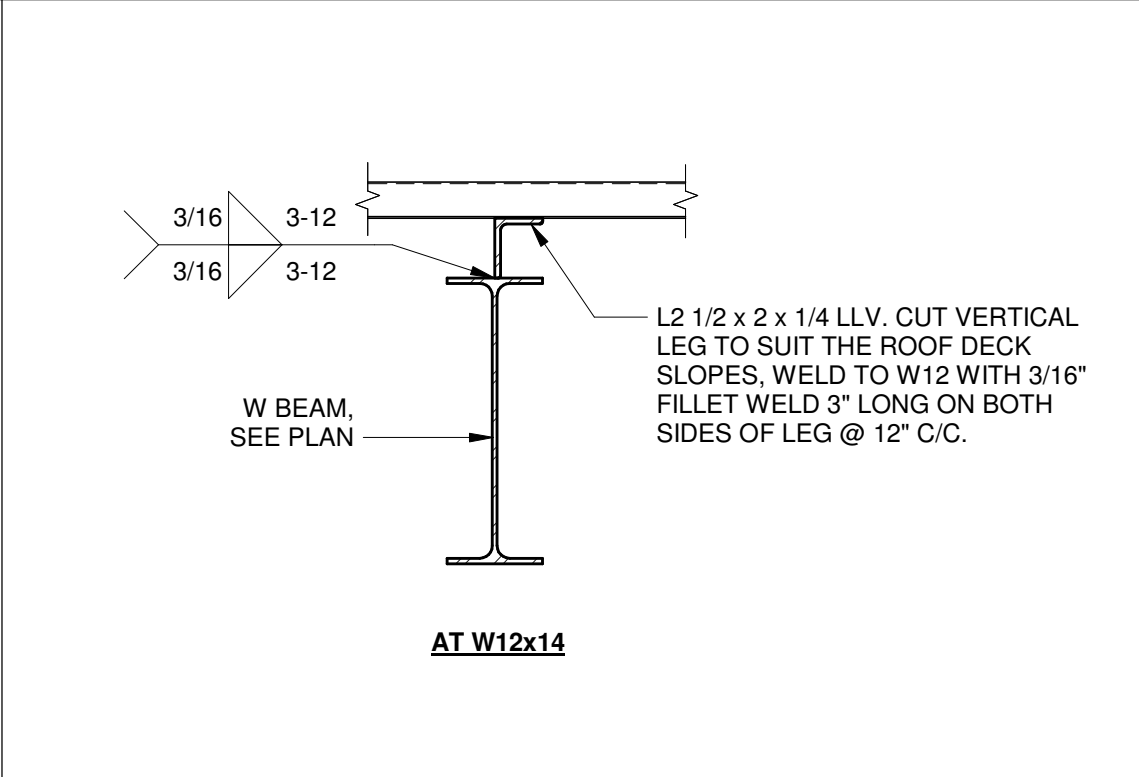
16 ROOF OPENING/EQUIPMENT SUPPORT FRAME CONNECTION DETAILS

S8.8 1 1/2" = 1'-0"



20 DECK SUPPORT SECTION

S8.8 1 1/2" = 1'-0"



19 DECK SUPPORT SECTION

S8.8 1 1/2" = 1'-0"

CODE REVIEW:

CERTIFICATE:



SPIEZE ARCHITECTURAL GROUP INC.
2001 9TH AVENUE
SUITE 308
VERO BEACH, FL 32960
PHONE: 772-794-2929

SIGNATURE:
ARCHITECT
SEAL
JOINT REVIEW

ARCHITECT
SEAL
JOINT REVIEW

SEAL:

CONSULTANTS:

TRC
WORLDWIDE ENGINEERING
1230 N. University Dr.
PLANTATION, FL 33322
PHONE: (954) 484-7777
FAX: (954) 484-7834
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DEPicted ON THESE PLANS
COMPLIES WITH THE APPLICABLE
MINIMUM BUILDING CODES.
FILE NO.: 24FTL018

PERMIT SET 2-13-2025

PROJECT:

ST. LUCIE WEST GROVE
K-8 SCHOOL

10701 SW SUNDANCE VISTA BLVD
PORT ST. LUCIE, FL 34987

FOR

ST. LUCIE SCHOOL
DISTRICT

9461 BRANDYWINE LANE, PORT ST.
LUCIE, FL 34986

FOR CODE REVIEW:

#	REVISION NAME	DATE
11	ASI #11	09.29.2025

FOR BID:

DRAWING TITLE:

TYPICAL ROOF DETAILS

COMMISSION NUMBER:

24FTL018

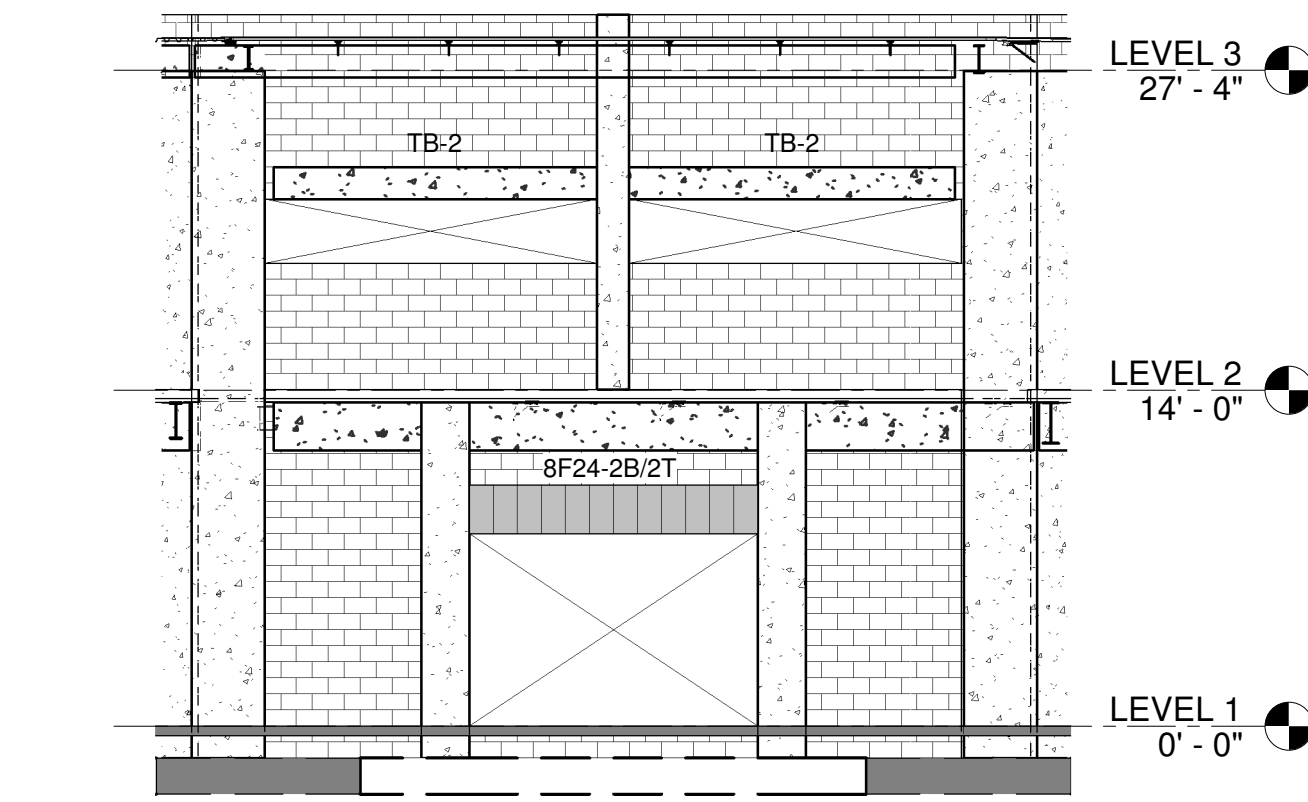
DO NOT SCALE THE DRAWINGS

DRAWING NUMBER:

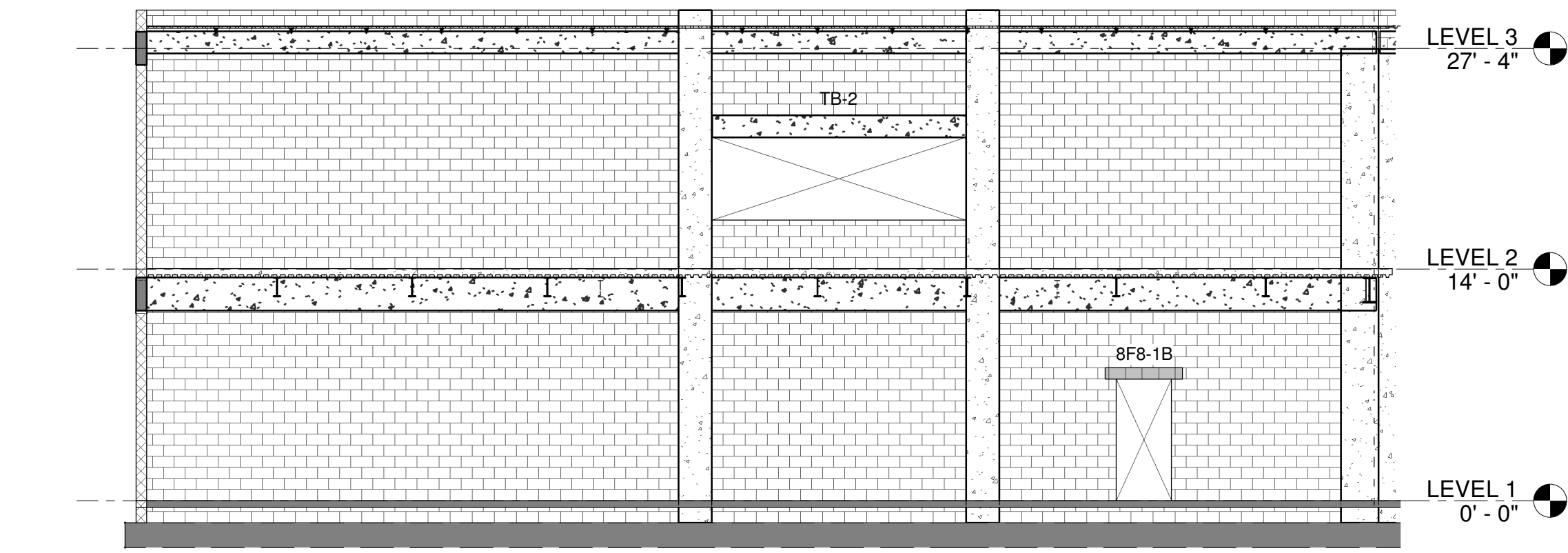
S8.8



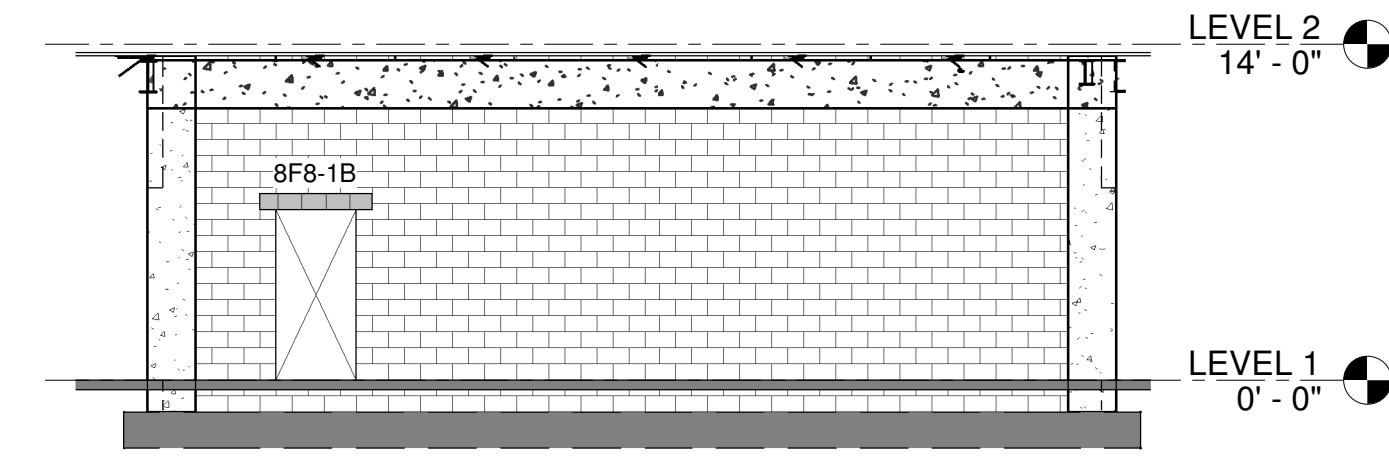
S10.1



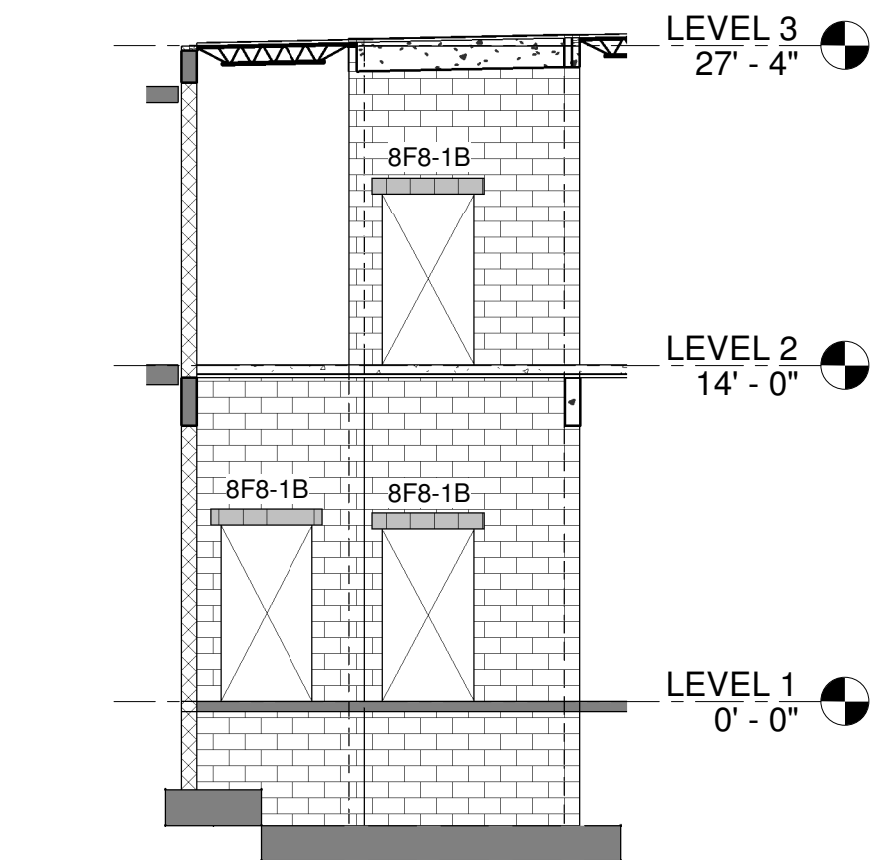
3 BUILDING ELEVATION
S10.2 1/8" = 1'-0"



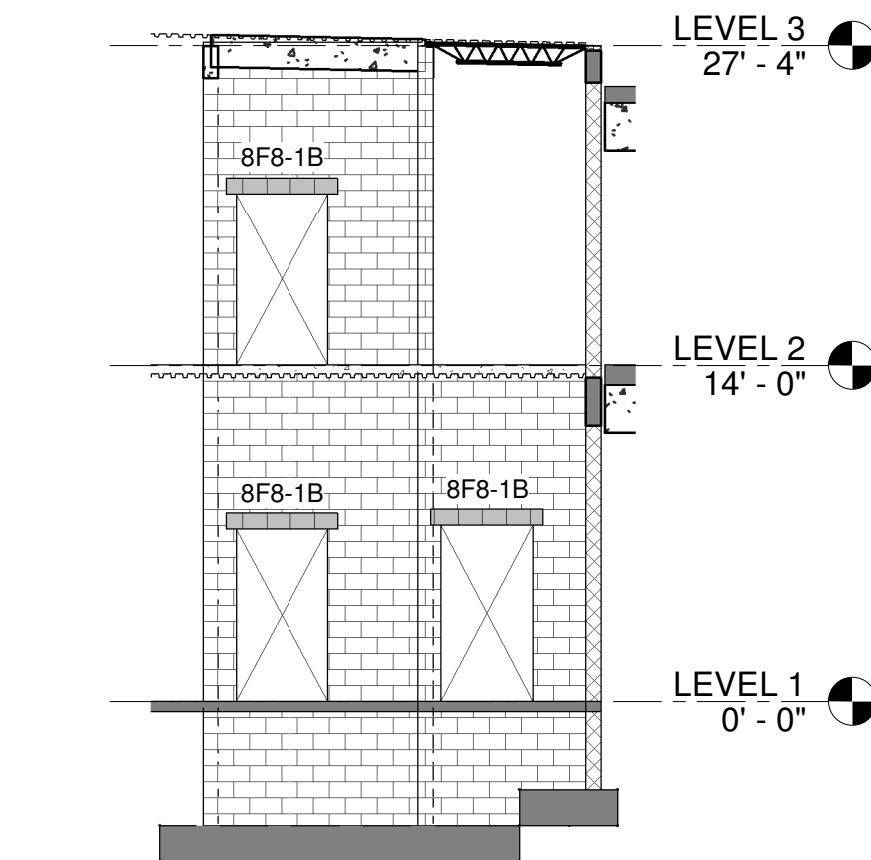
2 BUILDING ELEVATION
S10.2 1/8" = 1'-0"



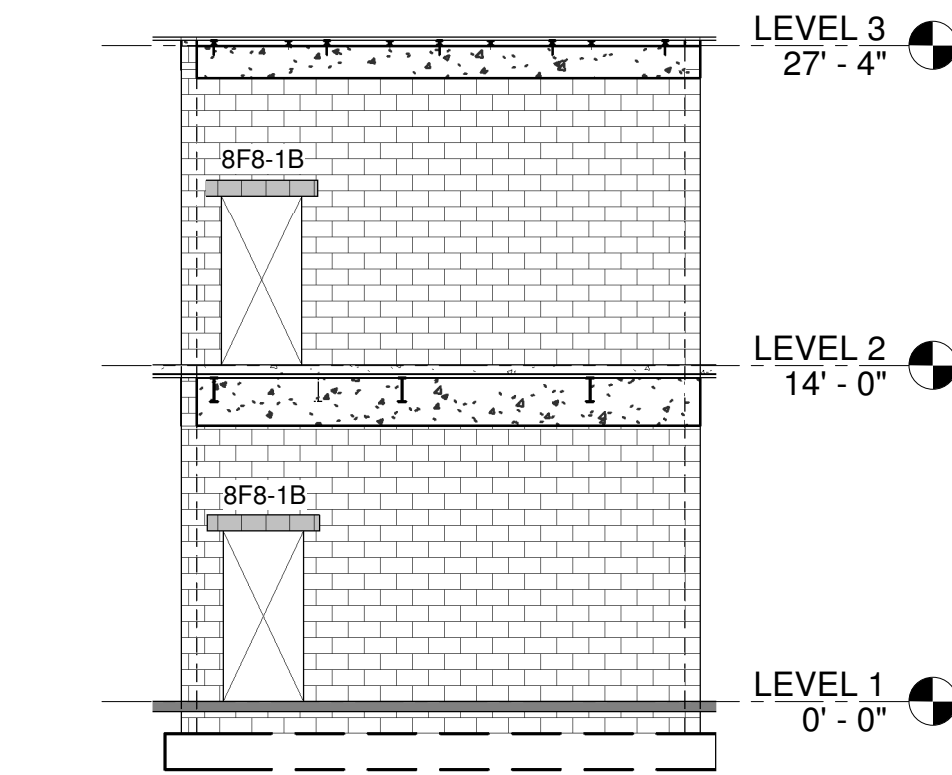
1 BUILDING ELEVATION
S10.2 1/8" = 1'-0"



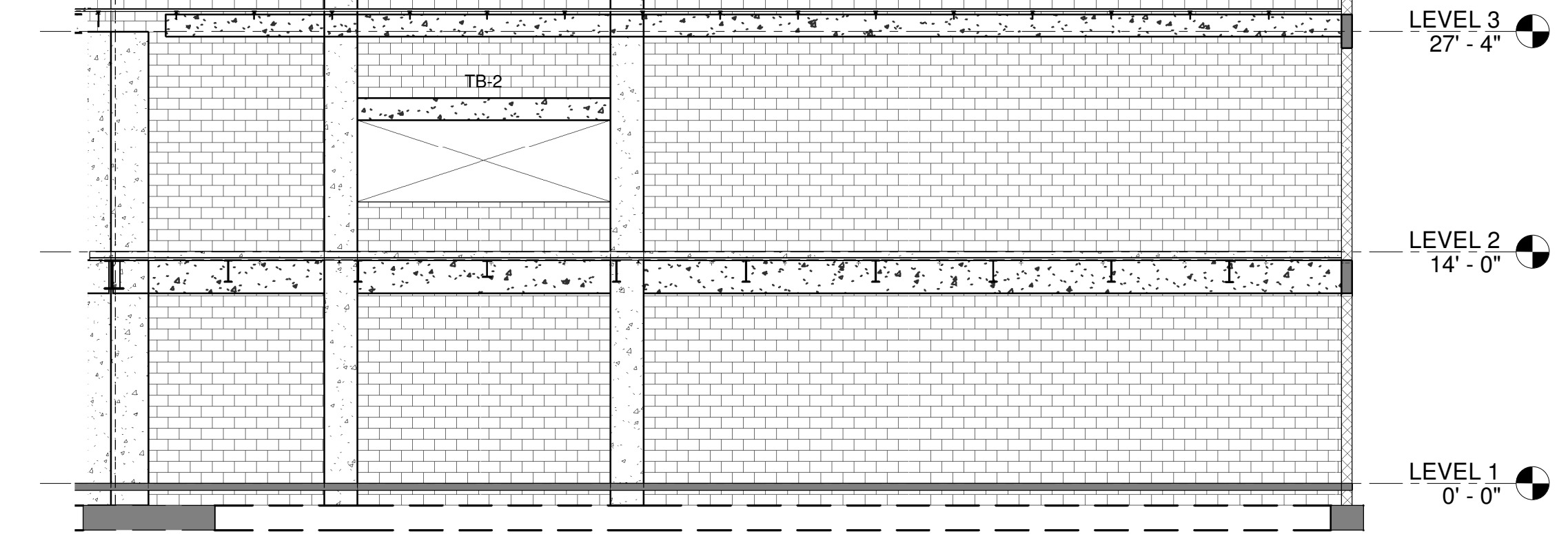
7 BUILDING ELEVATION
S10.2 1/8" = 1'-0"



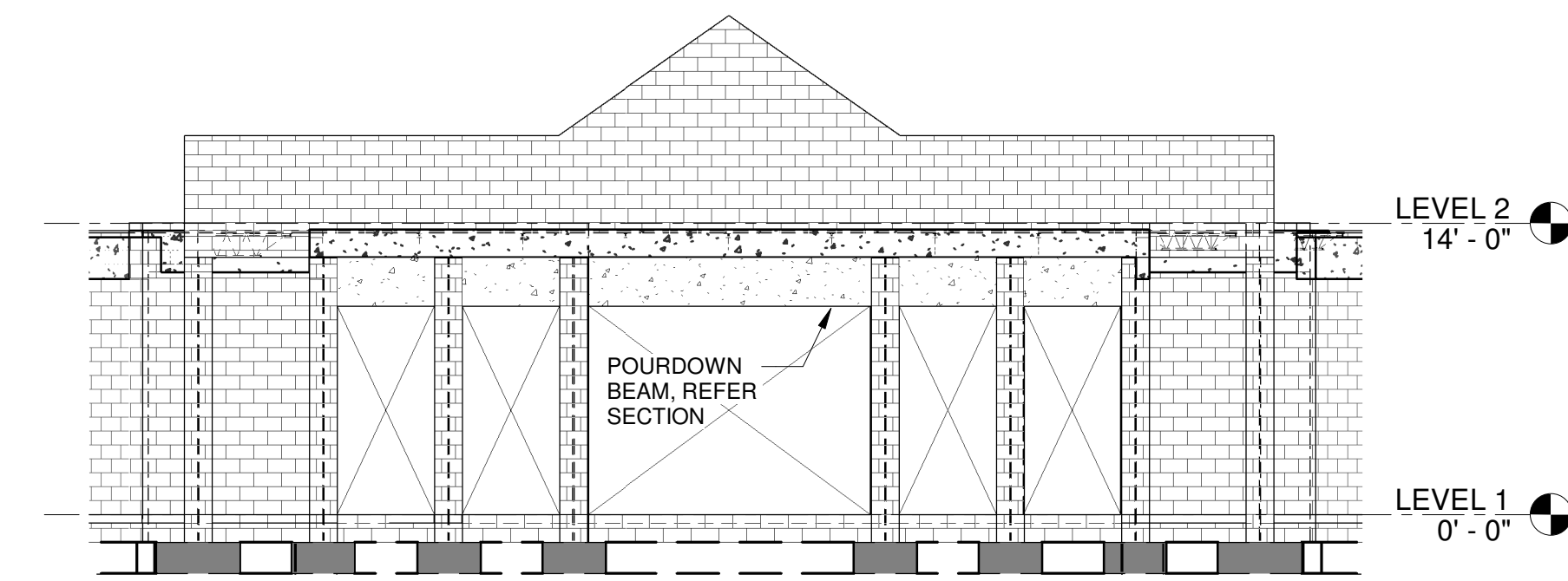
6 BUILDING ELEVATION
S10.2 1/8" = 1'-0"



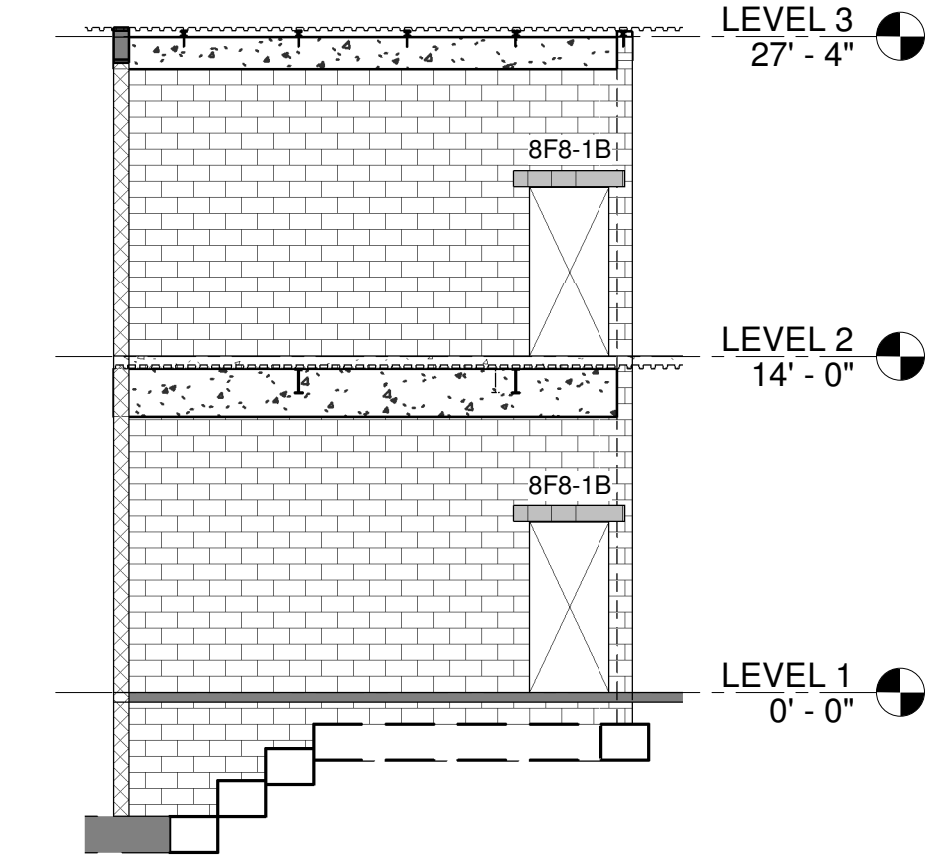
5 BUILDING ELEVATION
S10.2 1/8" = 1'-0"



4 BUILDING ELEVATION
S10.2 1/8" = 1'-0"



9 BUILDING ELEVATION
S10.2 1/8" = 1'-0"



8 BUILDING ELEVATION
S10.2 1/8" = 1'-0"

NOTE:
THE PURPOSE OF THESE ELEVATIONS IS TO GRAPHICALLY SHOW
LINTELS, TIE BEAMS AND TIE COLUMNS ONLY. SEE STRUCTURAL PLANS,
DETAIL, NOTES ETC. AND ARCH DRAWINGS FOR MORE INFORMATION.

CODE REVIEW:

CERTIFICATE:

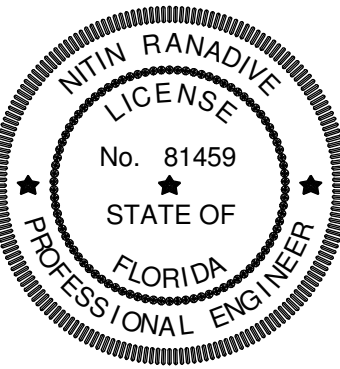


SPIEZZE ARCHITECTURAL GROUP INC.
2001 9TH AVENUE
SUITE 308
VERO BEACH, FL 32909
PHONE: 772-794-2929

SIGNATURE:
MICHAEL DONATO
STEVEN G. SEIGEL
JOHN T. WRIGHT

AR001345
AR00548
AR01541

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MINIMUM BUILDING CODES.
FILE NO. 24FTL018

PERMIT SET 2-13-2025

PROJECT:

ST. LUCIE WEST GROVE
K-8 SCHOOL

10701 SW SUNDANCE VISTA BLVD
PORT ST. LUCIE, FL 34987

FOR

ST. LUCIE SCHOOL
DISTRICT

9461 BRANDYWINE LANE, PORT ST.
LUCIE, FL 34986

FOR CODE REVIEW:

REVISIONS:

#	REVISION NAME	DATE
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FOR BID:

DRAWING TITLE:

BUILDING ELEVATION -
ADMINISTRATION -
BUILDING 1

COMMISSION NUMBER:

24FTL018

DO NOT SCALE THE DRAWINGS

DRAWING NUMBER:

S10.2

CODE REVIEW:

CERTIFICATE:

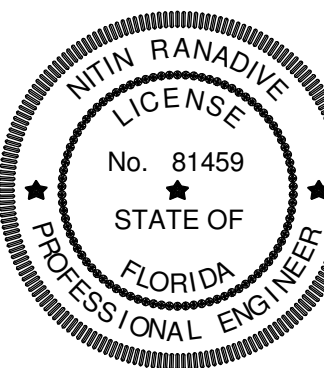


SPIEZLE ARCHITECTURAL GROUP INC.
2001 9TH AVENUE
SUITE 308
VERO BEACH, FL 32960
PHONE: 772-794-2929

SIGNATURE:
ARCHITECT
STEVEN G. SEIGEL
JOINT. ARCHIT.

ARCHITECT
STEVEN G. SEIGEL
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LUCIE, FL 34986

FOR CODE REVIEW:

REVISIONS:

REV.	REVISION NAME	DATE
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FOR BID:

DRAWING TITLE:

BUILDING ELEVATION -
CLASSROOM - BUILDING
2

COMMISSION NUMBER:

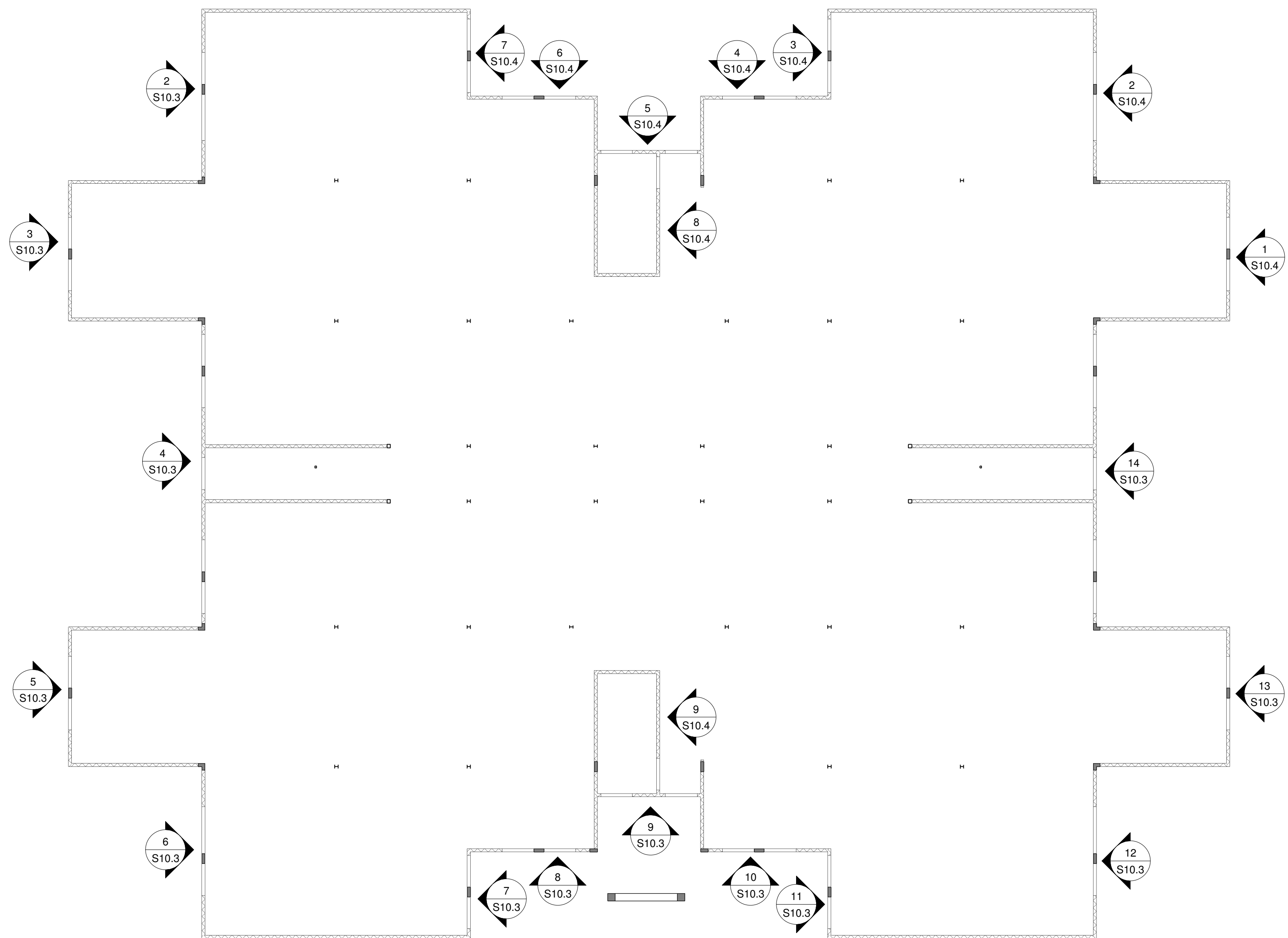
24FTL018

DO NOT SCALE THE DRAWINGS

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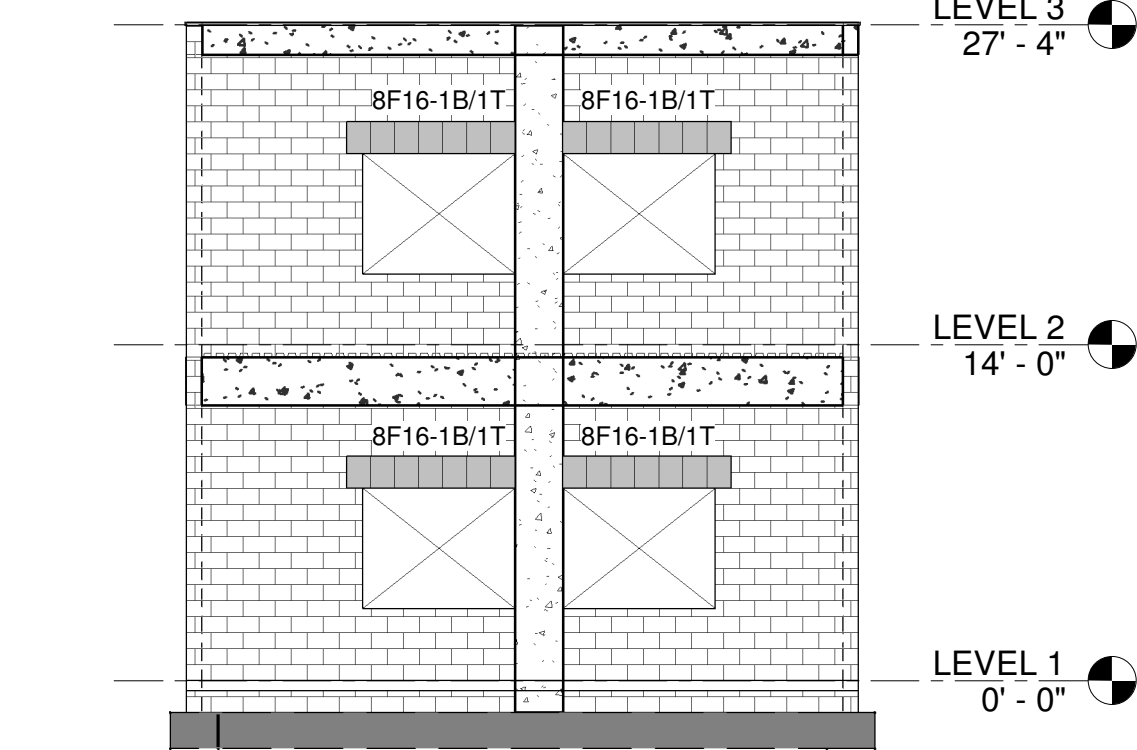
S10.3

NOTE:
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1 WALL ELEVATION PLAN- CLASSROOMS 1 - BUILDING 2

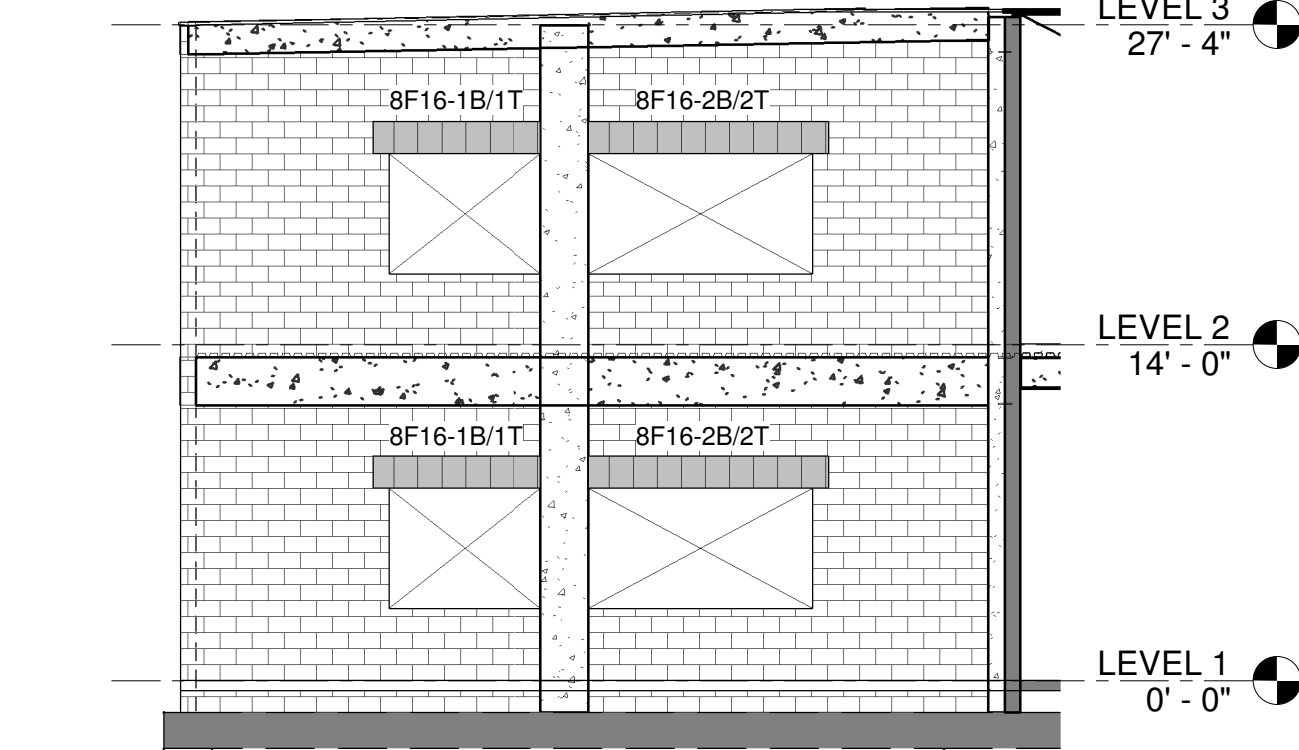
1/16" = 1'-0"



3 BUILDING ELEVATION

S10.3

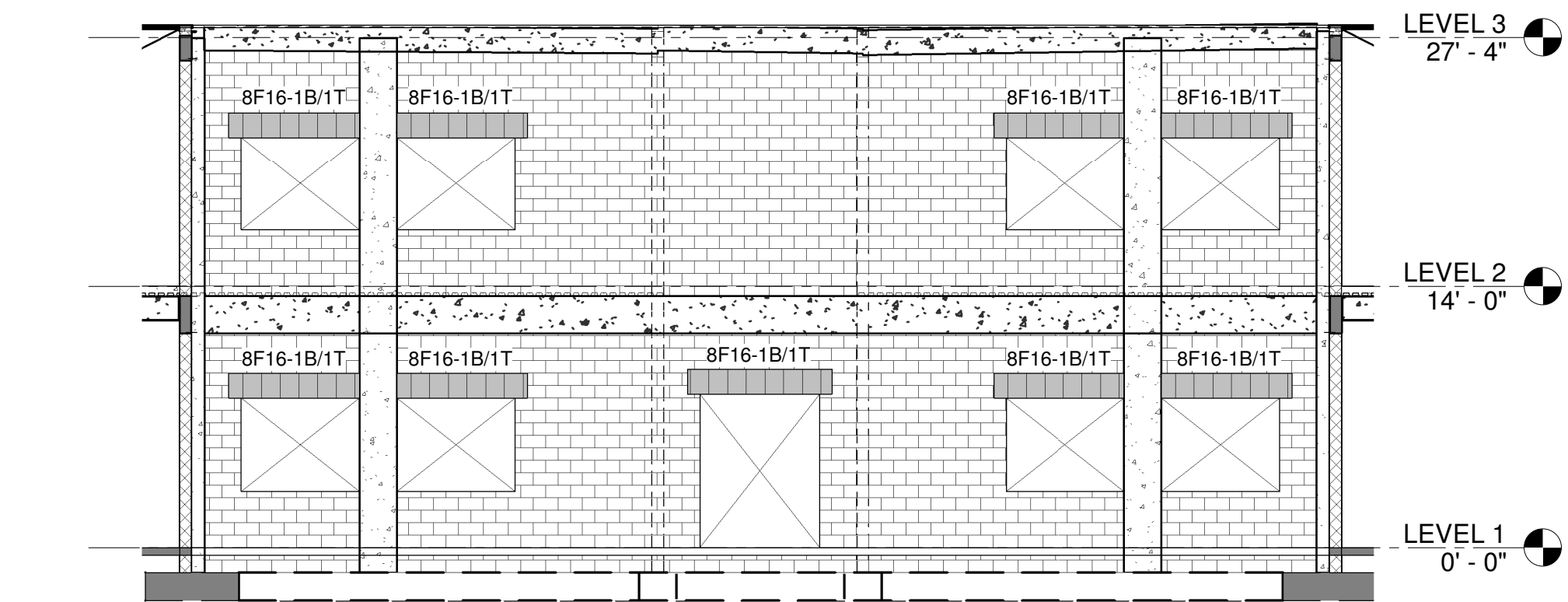
1/8" = 1'-0"



2 BUILDING ELEVATION

S10.3

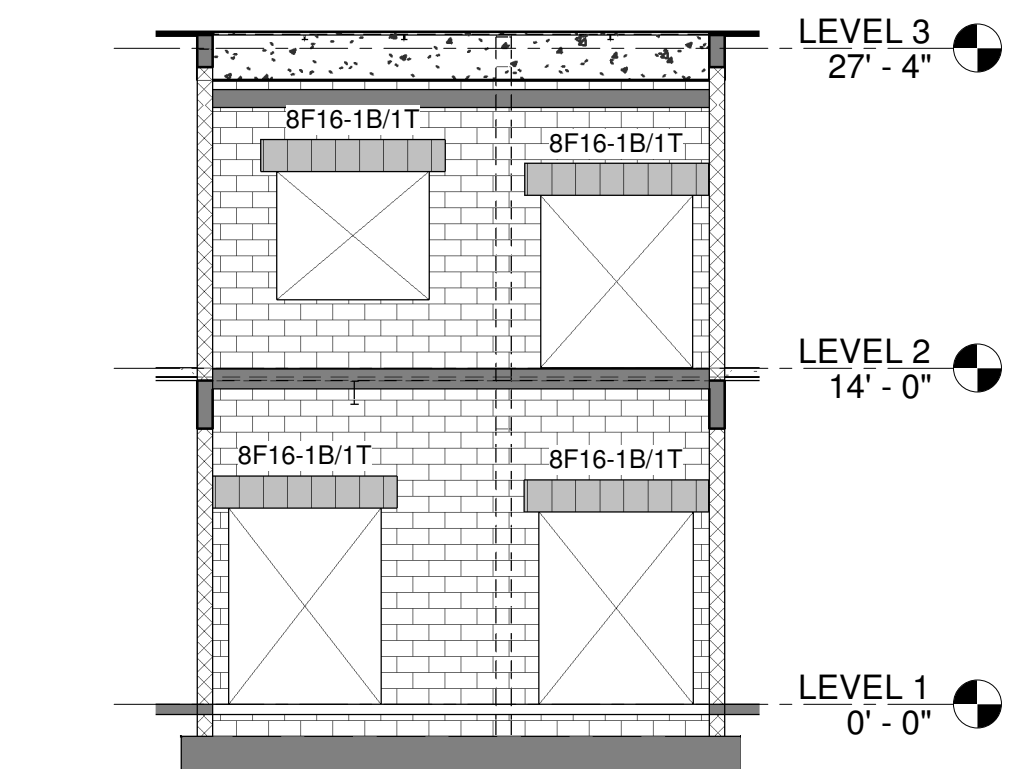
1/8" = 1'-0"



4 BUILDING ELEVATION

S10.3

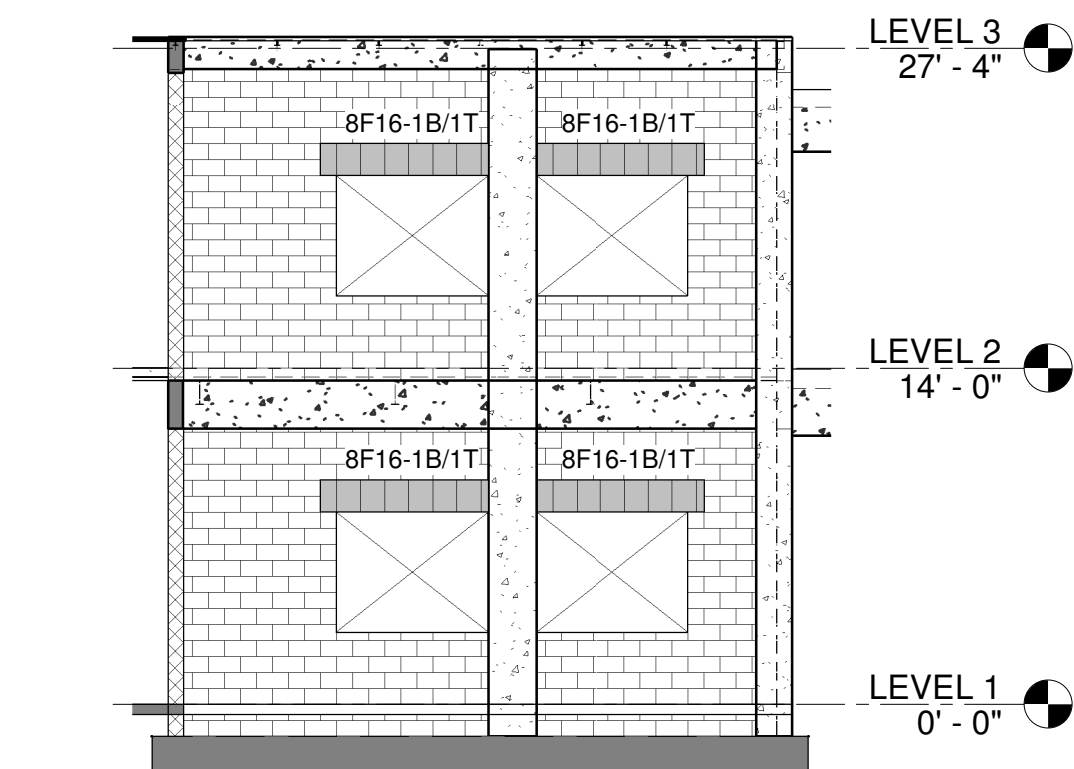
1/8" = 1'-0"



9 BUILDING ELEVATION

S10.3

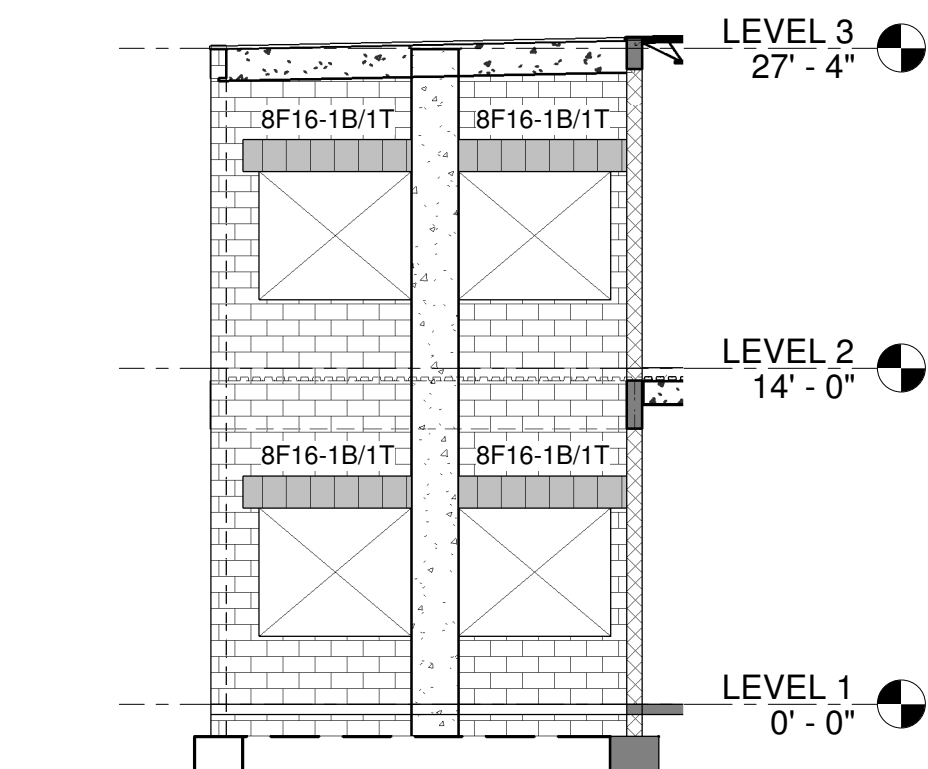
1/8" = 1'-0"



8 BUILDING ELEVATION

S10.3

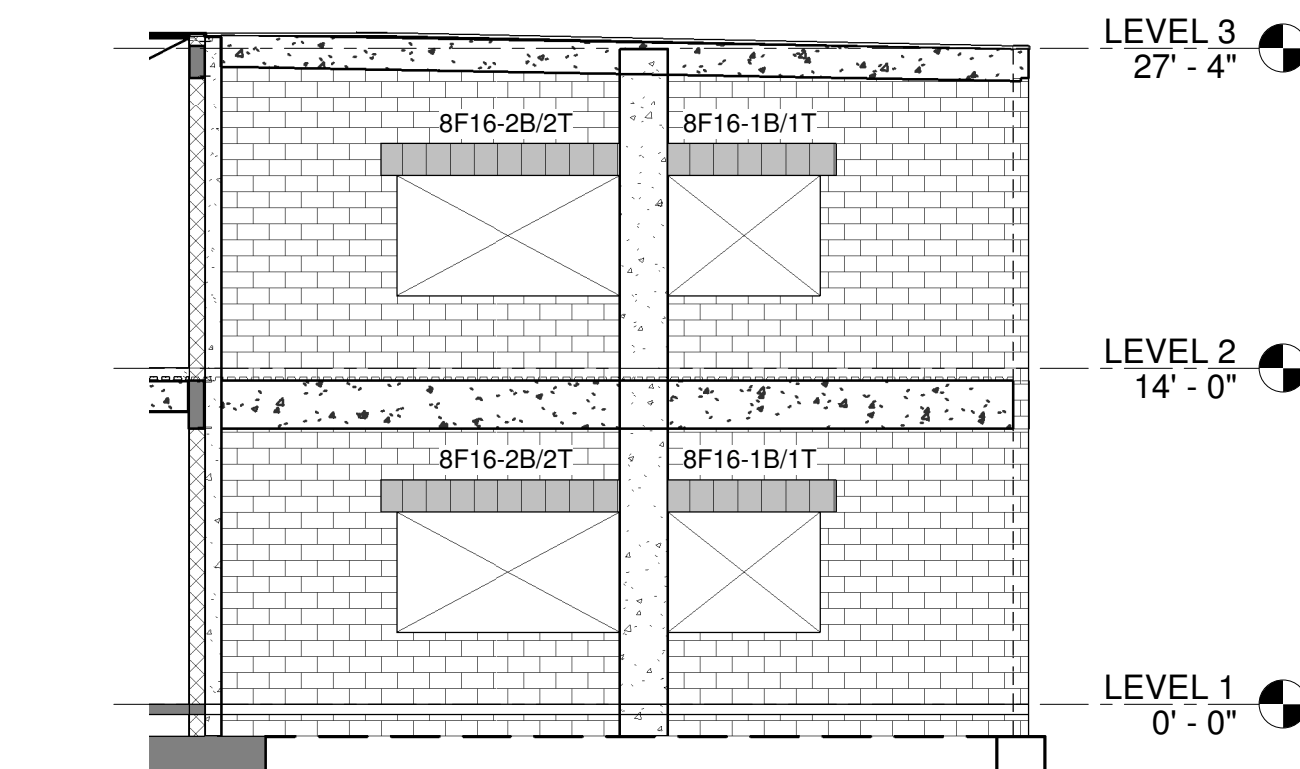
1/8" = 1'-0"



7 BUILDING ELEVATION

S10.3

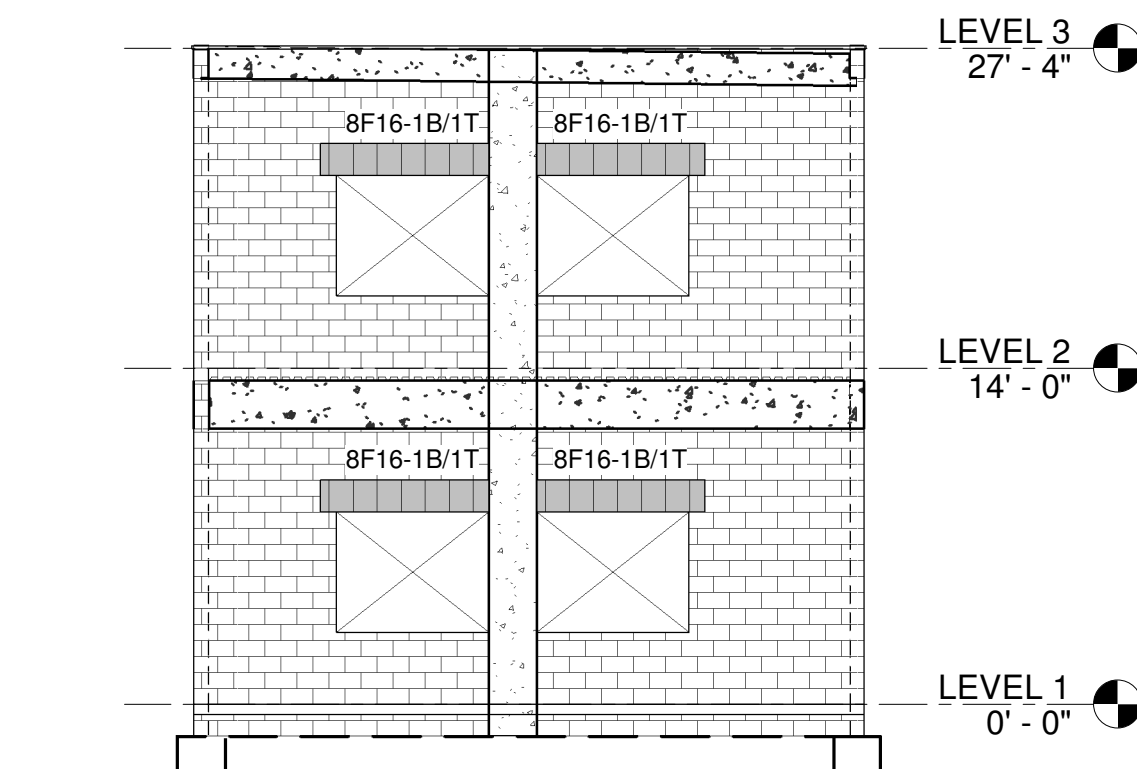
1/8" = 1'-0"



6 BUILDING ELEVATION

S10.3

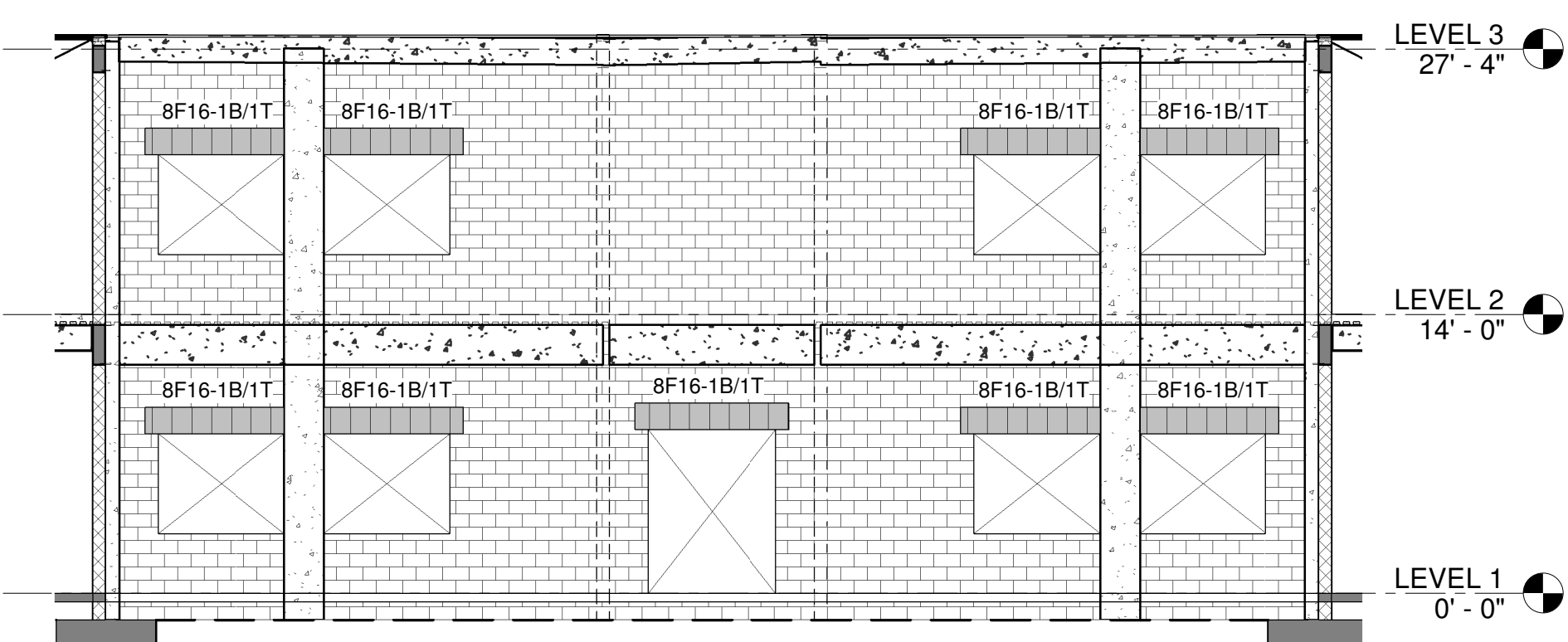
1/8" = 1'-0"



5 BUILDING ELEVATION

S10.3

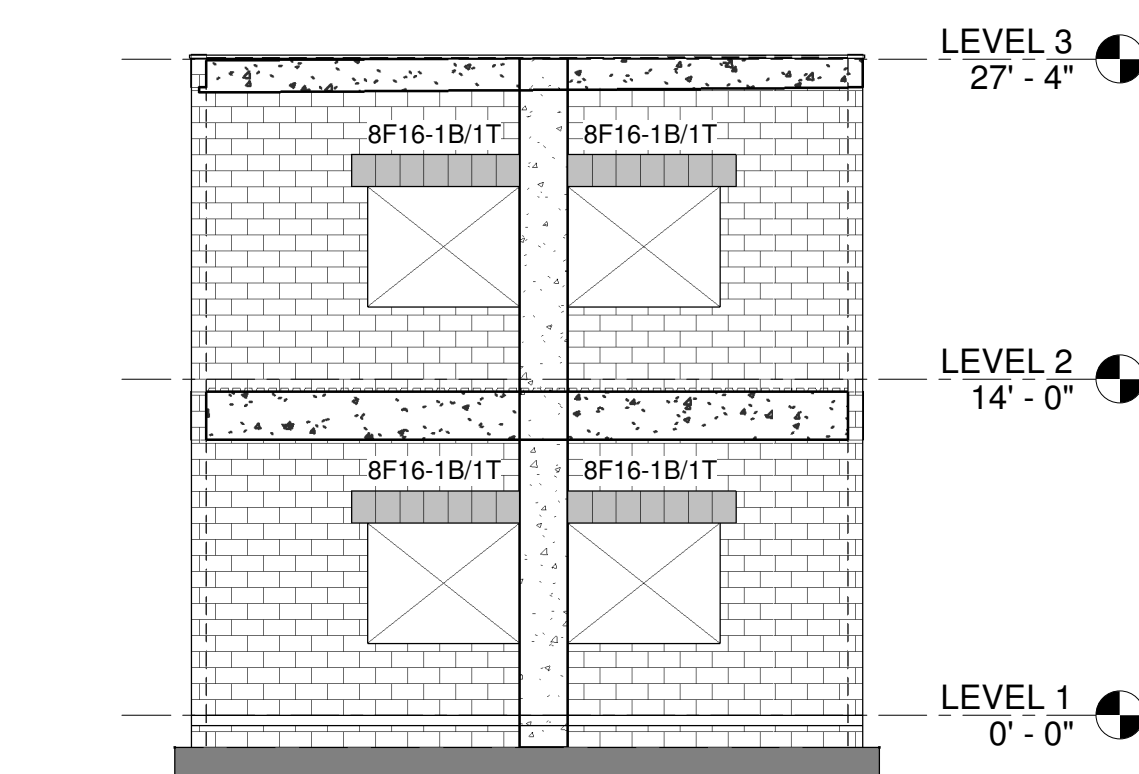
1/8" = 1'-0"



14 BUILDING ELEVATION

S10.3

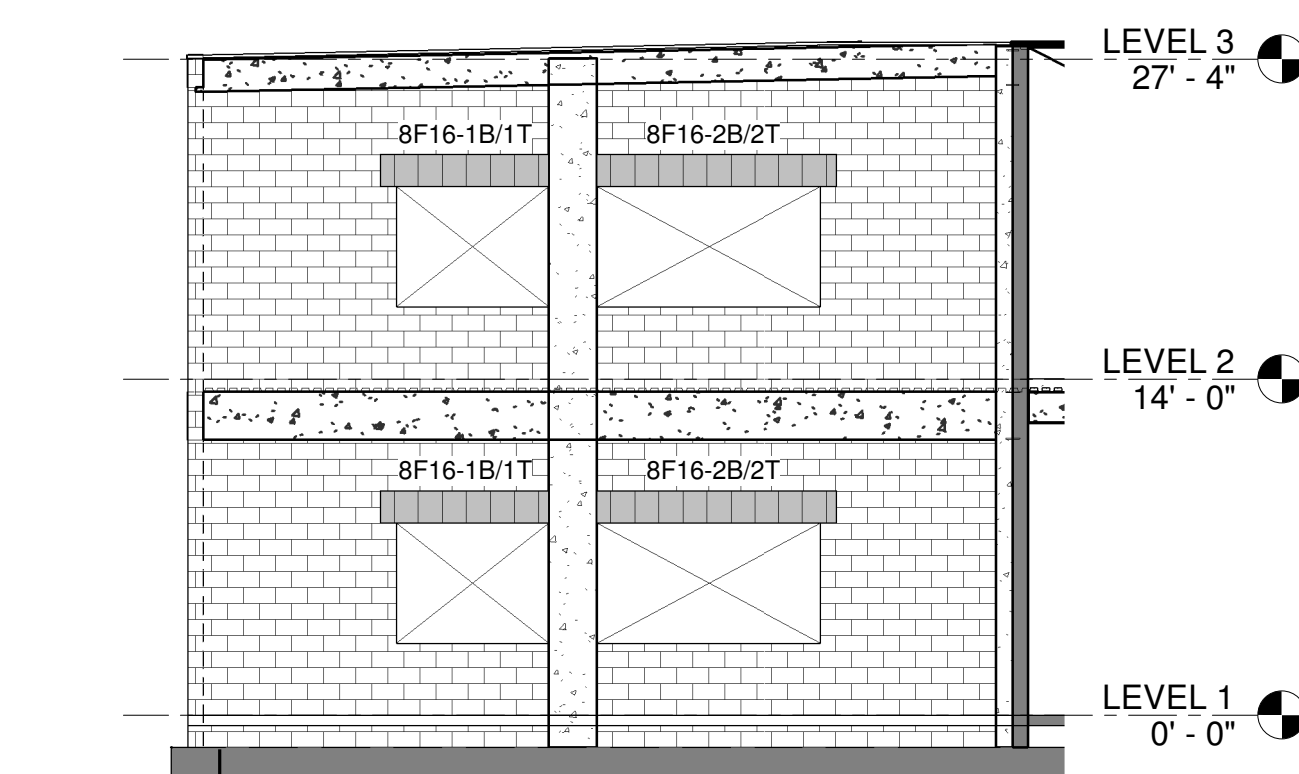
1/8" = 1'-0"



13 BUILDING ELEVATION

S10.3

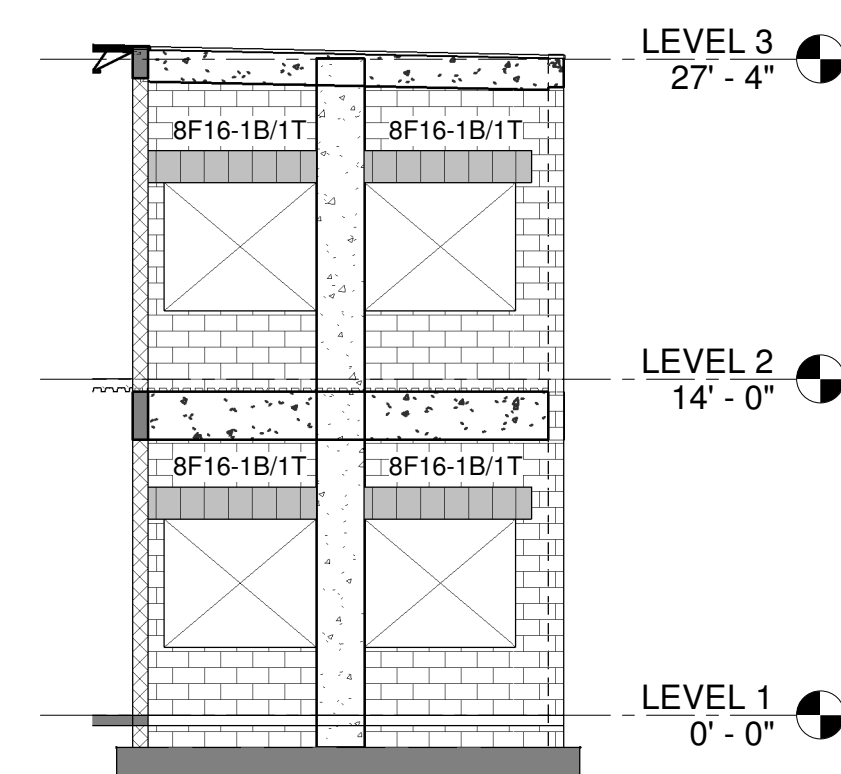
1/8" = 1'-0"



12 BUILDING ELEVATION

S10.3

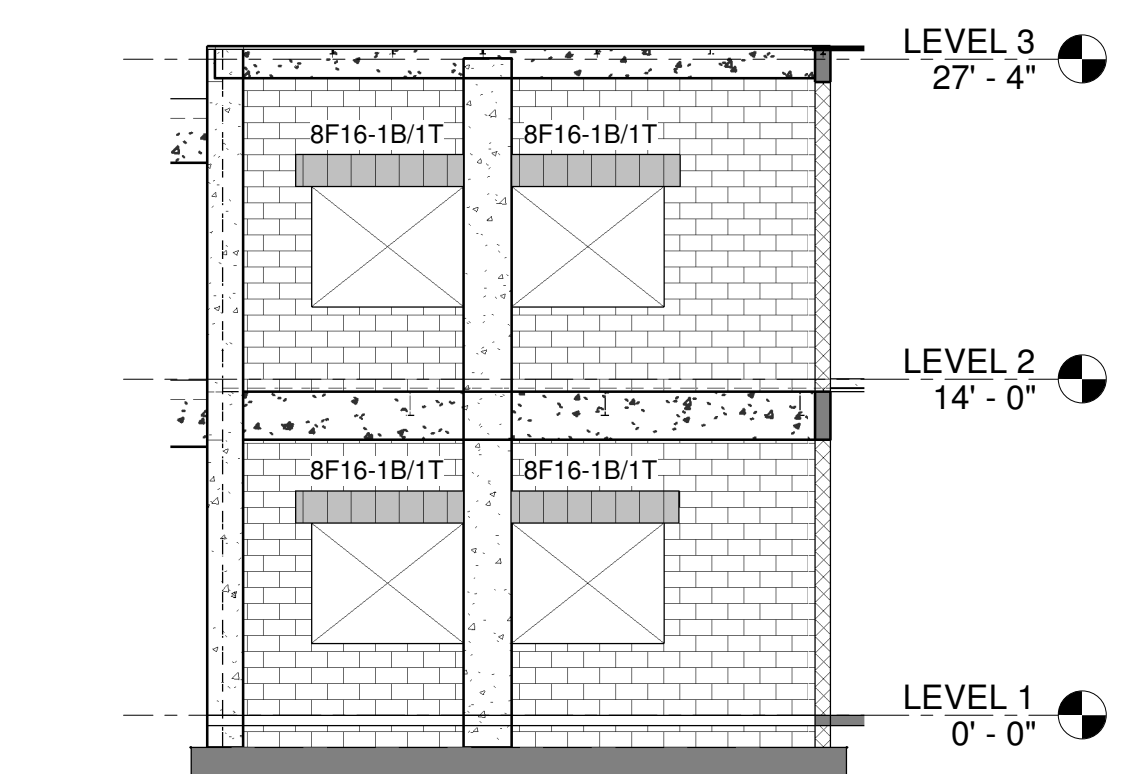
1/8" = 1'-0"



11 BUILDING ELEVATION

S10.3

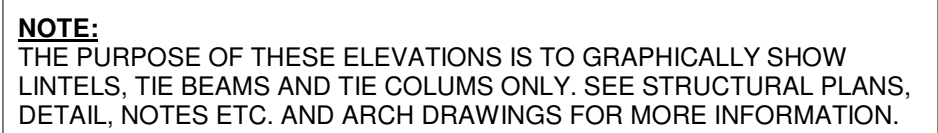
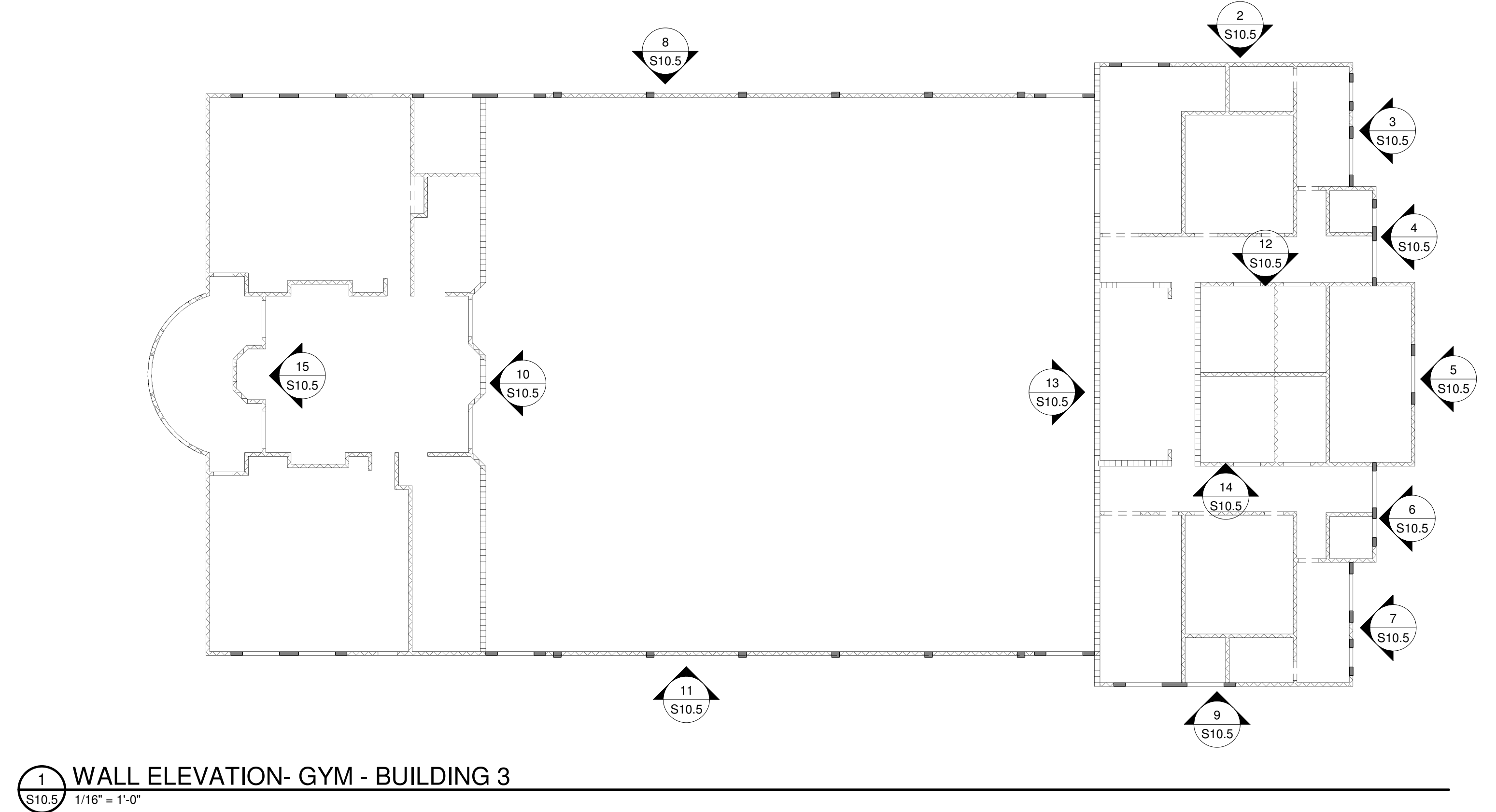
1/8" = 1'-0"



10 BUILDING ELEVATION

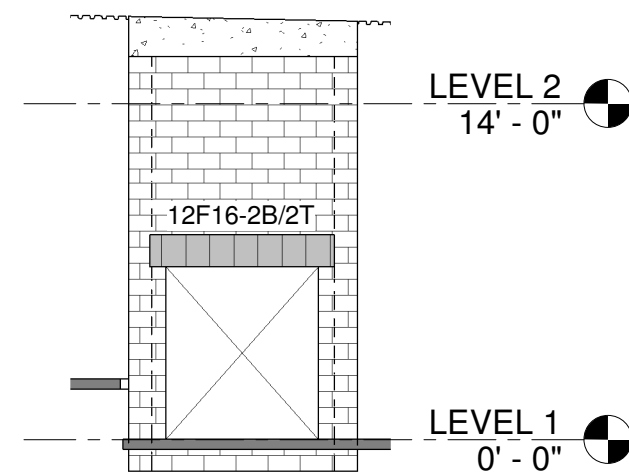
S10.3

1/8" = 1'-0"

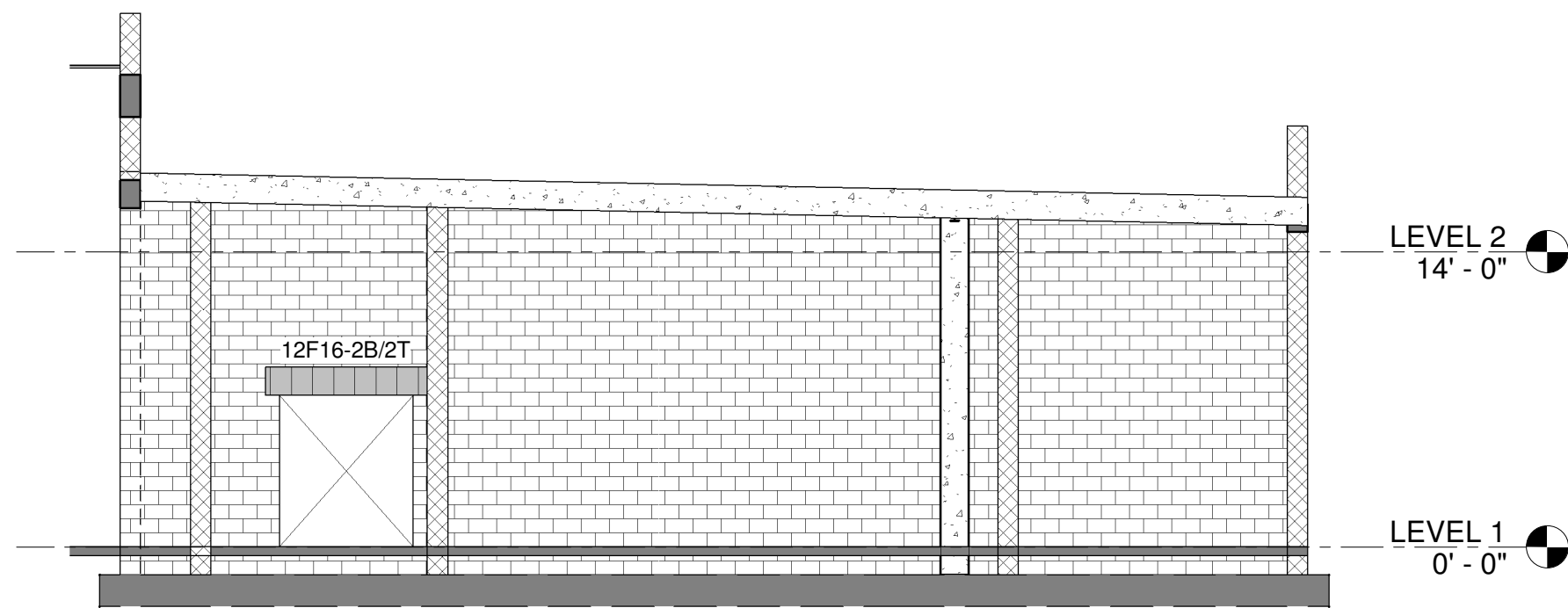


S10.5

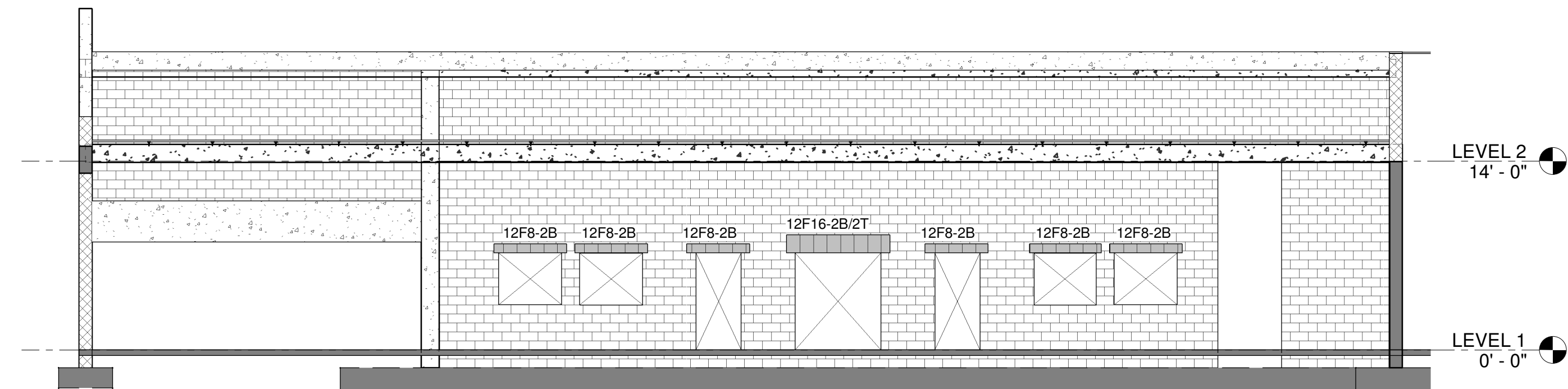
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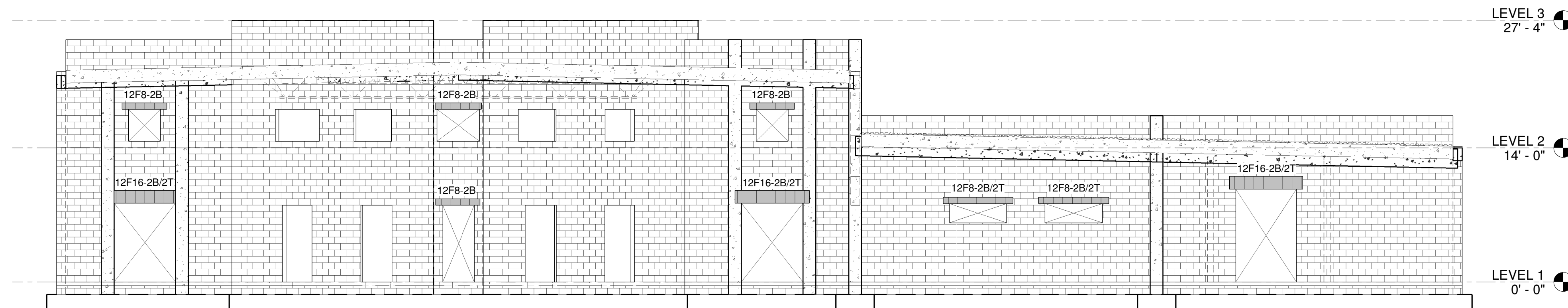
4 BUILDING ELEVATION
S10.7 1/8" = 1'-0"



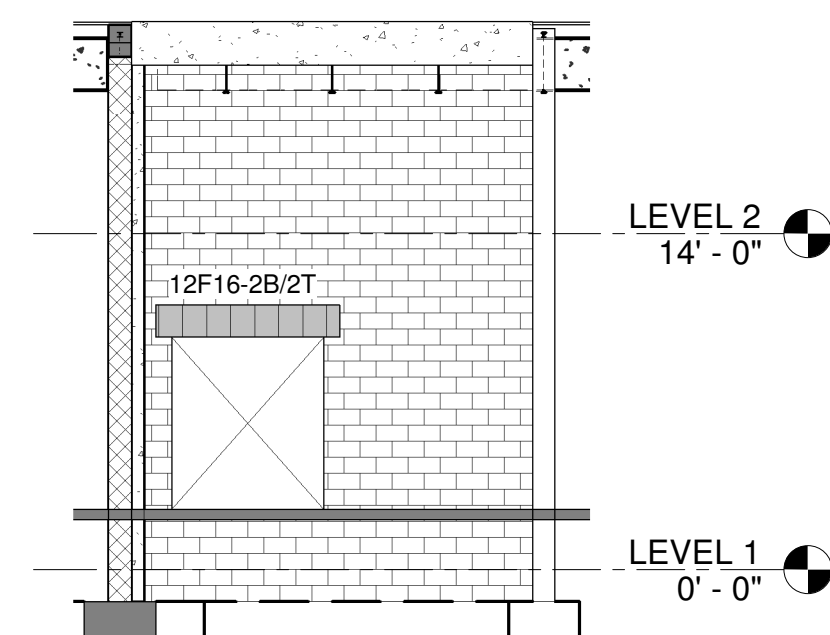
2 BUILDING ELEVATION
S10.7 1/8" = 1'-0"



1 BUILDING ELEVATION
S10.7 1/8" = 1'-0"



6 BUILDING ELEVATION
S10.7 1/8" = 1'-0"



5 BUILDING ELEVATION
S10.7 1/8" = 1'-0"

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CERTIFICATE:

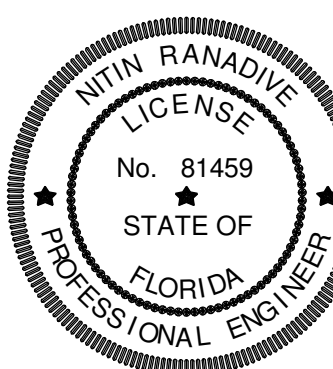


SPIEGLER ARCHITECTURAL GROUP INC.
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VERO BEACH, FL 32960
PHONE: 772-794-2929

SIGNATURE:
ANTHONY DONADI
STEVEN G. SIEGEL
JOHN F. INSIGHT

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AR22548
AR231241

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9461 BRANDYWINE LANE, PORT ST.
LUCIE, FL 34986

FOR CODE REVIEW:

REVISIONS:

	REVISION NAME	DATE
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FOR BID:

DRAWING TITLE:

BUILDING ELEVATION -
AUDETERIA - BUILDING 5

COMMISSION NUMBER

24FTL018

DO NOT SCALE THE DRAWINGS

DRAWING NUMBER:

S10.7