

STRUCTURAL NOTES

GENERAL NOTES

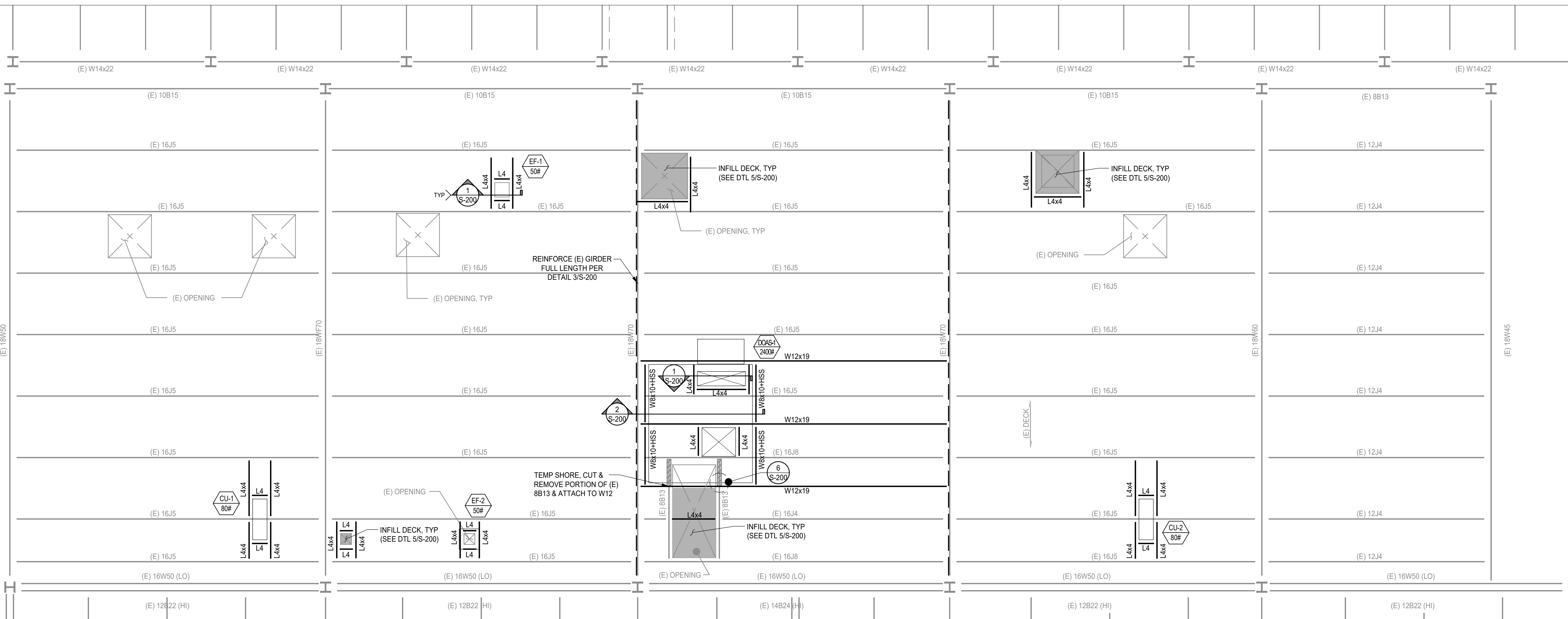
- THIS PROJECT HAS BEEN DESIGNED USING THE 2021 INTERNATIONAL BUILDING CODE, NEW JERSEY EDITION.
- STRUCTURAL SPECIAL INSPECTIONS ARE A REQUIREMENT FOR THIS PROJECT. A QUALIFIED INDEPENDENT INSPECTION AGENCY SHALL BE SELECTED TO PERFORM THIS SERVICE. ALL INSPECTIONS AS REQUIRED BY CHAPTER 17 OF THE INTERNATIONAL BUILDING CODE (SEE THE FOLLOWING TABULAR REFERENCES) ARE REQUIRED AT A MINIMUM. FOR STEEL CONSTRUCTION REFER TO TABLE 1704.3, FOR CONCRETE CONSTRUCTION SEE TABLE 1704.4, FOR MASONRY CONSTRUCTION SEE TABLE 1704.5, FOR SOILS SEE TABLE 1704.7. SEE THE NOTES ON THIS DRAWING FOR ANY ADDITIONAL INSPECTIONS REQUIRED.
- ALL CONTRACTORS AND SUBCONTRACTORS ARE RESPONSIBLE FOR ADHERING TO THE REQUIREMENTS AS INDICATED IN THE NOTES FOR THIS JOB. FAILURE OF THE CONTRACTOR TO READ THE STRUCTURAL NOTES DOES NOT PERMIT THE CONTRACTOR TO DEVIATE FROM THEIR REQUIREMENTS.
- NO FIELD MODIFICATIONS TO ANY STRUCTURAL COMPONENTS SHALL BE MADE WITHOUT PRIOR APPROVAL BY THE STRUCTURAL ENGINEER. THIS INCLUDES, BUT IS NOT LIMITED TO REVISIONS DUE TO MIS-LOCATION, MISFIT, OR ANY OTHER CONSTRUCTION ERRORS.
- ALL CONSTRUCTION AND DEMOLITION SHALL COMPLY WITH ALL APPLICABLE NATIONAL, STATE, AND LOCAL CODES INCLUDING ALL OSHA REGULATIONS.
- CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO PROTECT ALL PEOPLE WHO MAY BE ON OR NEAR THE WORK AREA, BY MAINTAINING A SAFE WORK AREA, SAFE WORKING CONDITIONS, AND LIMITING ACCESS TO THE WORK AREA.
- CONTRACTOR IS FULLY RESPONSIBLE FOR HIS WORKERS' SAFETY, SAFETY EQUIPMENT, FIRST AID, AND EMERGENCY HANDLING PROCEDURES.
- CONTRACTOR SHALL PERSONALLY SUPERVISE THE WORK AND SHALL BE PRESENT AT THE WORK SITE AT ALL TIMES DURING CONSTRUCTION WORK. CONTRACTOR SHALL PROVIDE ADEQUATE PERSONNEL FOR THE PROPER COORDINATION AND EXPEDITING OF THE WORK.
- THESE DRAWINGS SHALL NOT BE SCALED FOR PURPOSES OF CONSTRUCTION.
- TYPICAL DETAILS ARE NOT NECESSARILY REFERENCED ON EVERY DRAWING SHEET AND SHALL BE USED BY THE CONTRACTOR AS REQUIRED FOR ALL CONDITIONS WHERE APPLICABLE.
- IN CASE OF CONFLICT BETWEEN STRUCTURAL DRAWINGS AND OTHER DRAWINGS OF THIS PROJECT, CONTRACTOR SHALL IMMEDIATELY CONTACT THE MECHANICAL ENGINEER FOR CLARIFICATION PRIOR TO START OF WORK.
- ALL COLUMN LINE AND WALL DIMENSIONS SHOWN ON STRUCTURAL DRAWINGS ARE FOR REFERENCE AND SHALL FIRST BE VERIFIED WITH THE ARCHITECTURAL DRAWINGS PRIOR TO THE START OF THE PROJECT.
- THE CONTRACTOR IS RESPONSIBLE FOR SURVEYING AND VERIFICATION OF EXISTING CONDITIONS INCLUDING BUT NOT LIMITED TO THE LOCATION, ELEVATIONS AND DIMENSIONS OF EXISTING WALLS AND FRAMING.
- THE CONTRACTOR IS RESPONSIBLE FOR THE DESIGN, INSTALLATION, AND TEMPORARY SHORING OF THE EXCAVATIONS AND BUILDING STRUCTURE AS REQUIRED DURING CONSTRUCTION. THE CONTRACTOR IS RESPONSIBLE FOR THE MEANS AND METHODS OF CONSTRUCTION. DESIGN OF SHEETING, SHORING, SCAFFOLDING, FORM WORK, AND OTHER MEANS AND METHODS STRUCTURES SHALL BE DESIGNED BY ENGINEERS HIRED BY THE CONTRACTOR.
- SECTIONS SHOWN ON PLANS APPLY TO SIMILAR CONDITIONS THROUGHOUT THE BUILDING.
- THE CONTRACTOR IS RESPONSIBLE FOR COORDINATING WITH ALL DRAWINGS FOR THE PROJECT FOR THE FOLLOWING INFORMATION:
 - LOCATION OF ALL REQUIRED OPENINGS IN WALLS, FLOORS, ROOF, ETC. ALL OPENINGS MAY NOT BE INDICATED ON STRUCTURAL DRAWINGS.
 - SIZE AND LOCATION OF ALL SLEEVES, INSERTS, AND DEPRESSIONS.
 - LOCATION AND SIZE OF ALL EQUIPMENT HOUSE KEEPING PADS.

STEEL

- ALL STRUCTURAL STEEL SHALL BE DETAILED, FABRICATED AND ERRECTED IN ACCORDANCE WITH AISC 360-16 (SPECIFICATION FOR STRUCTURAL STEEL BUILDINGS) AND WITH AISC 303-16 (CODE OF STANDARD PRACTICE FOR STEEL BUILDINGS AND BRIDGES). QUALITY CONTROL AND QUALITY ASSURANCE DURING STEEL FABRICATION AND ERECTION SHALL BE IN ACCORDANCE WITH CHAPTER N OF AISC 360.
- STRUCTURAL STEEL WIDE FLANGE SHAPES SHALL CONFORM TO ASTM SPECIFICATION A992 (Fy = 50 KSI MIN.). ALL HSS RECTANGULAR SHAPES SHALL CONFORM TO ASTM SPECIFICATION A500 GRADE C (Fy = 50 KSI) ALL HSS ROUND SHAPES SHALL CONFORM TO ASTM SPECIFICATION A500 GRADE C (Fy = 46 KSI). ALL STEEL PIPE (STANDARD, EXTRA STRONG, DOUBLE EXTRA STRONG) SHALL CONFORM TO ASTM A53 GRADE B (Fy = 35 KSI). ALL CHANNELS, ANGLES AND PLATE MATERIAL SHALL CONFORM TO ASTM A36.
- ALL BOLTS SHALL BE 3/4" DIAMETER ASTM F3125 GRADE A325 HIGH STRENGTH BOLTS, UNLESS OTHERWISE NOTED.
- ALL ANCHOR RODS SHALL BE FABRICATED IN ACCORDANCE WITH ASTM F1554. ALL ANCHOR RODS SHALL BE 36 KSI UNLESS OTHERWISE NOTED.
- ALL STEEL SHALL BE THOROUGHLY CLEANED BY POWER TOOL CLEANING (SPC SP3) PRIOR TO APPLYING PRIMER OR GALVANIZING.
- ALL STEEL SHALL HAVE A SHOP COAT OF RUST INHIBITIVE PRIMER UNLESS OTHERWISE NOTED. ALL PRIMER THAT IS DAMAGED IN THE FIELD AND ALL FIELD WELDS SHALL BE TOUCHED UP WITH FIELD APPLIED PRIMER.
- ALL CONNECTIONS SHALL BE BOLTED OR WELDED. FULL DEPTH CONNECTIONS ARE TO BE USED ON ALL GIRDER AND BEAM CONNECTIONS TO COLUMNS. BOLTS TO BE AT 3 INCH O/C VERTICAL PROVIDE A MINIMUM 3/8" THICK FULL DEPTH TAB PLATE FOR ALL TUBE COLUMN CONNECTIONS.
- ALL BOLTED CONNECTIONS SHALL BE BEARING TYPE WITH THREADS INCLUDED IN THE SHEAR PLANE UNLESS NOTED OTHERWISE. ALL BOLTED CONNECTIONS SHALL BE BOLTED "SNUG-TIGHT" UNLESS NOTED OTHERWISE.
- ALL SHOP AND FIELD WELDING SHALL BE PERFORMED BY WELDERS QUALIFIED, AS DESCRIBED IN "AMERICAN WELDING SOCIETY'S STANDARD QUALIFICATION PROCEDURE" (AWS D1.1), TO PERFORM THE TYPE OF WORK REQUIRED.
- ALL STEEL WELDING RODS SHALL BE E70XX.
- THE MINIMUM SIZE OF ALL FILLET WELDS SHOWN ON DRAWINGS SHALL BE IN ACCORDANCE WITH AISC STEEL CONSTRUCTION MANUAL TABLE 2.4 UNLESS NOTED OTHERWISE.
- STEEL FABRICATOR IS SOLELY RESPONSIBLE FOR SURVEYING AND VERIFICATION OF EXISTING CONDITIONS INCLUDING BUT NOT LIMITED TO THE LOCATION, ELEVATION, AND DIMENSIONS OF EXISTING WALLS AND FRAMING.
- THE STEEL CONTRACTOR SHALL PROVIDE TEMPORARY BRACING TO RESIST WIND LOADS, CONSTRUCTION LOADS, ETC. DURING CONSTRUCTION. BRACING SHALL REMAIN IN PLACE UNTIL THE STRUCTURE IS CAPABLE OF SUSTAINING ALL DESIGN LOADS.
- SUBMIT CHECKED STEEL SHOP DRAWINGS FOR REVIEW PRIOR TO ANY FABRICATION.
- PERFORM INSPECTIONS OF STEEL CONSTRUCTION IN ACCORDANCE WITH THE REQUIREMENTS OF THE APPLICABLE BUILDING CODE.

CONCRETE

- THE PROVISIONS OF ACI 318-19 HAVE BEEN UTILIZED FOR THE DESIGN OF CONCRETE ELEMENTS ON THIS PROJECT.
- FLOOR FINISH TOLERANCES FOR THE SLAB ON GRADE CONSTRUCTION SHALL BE IN ACCORDANCE WITH ACI 117. FLOOR FINISH TOLERANCE SHALL BE MEASURED USING A 10 FOOT STRAIGHTEDGE ANYWHERE ON THE SLAB AND ALLOWING IT TO REST UPON TWO HIGH SPOTS WITHIN 72 HOURS AFTER SLAB PLACEMENT. THE GAP AT ANY POINT BETWEEN THE STRAIGHT EDGE AND THE FLOOR SHALL NOT EXCEED 1/4".
- ALL CONCRETE SHALL BE NORMAL WEIGHT, READY-MIX. ALL CONCRETE MIX DESIGNS SHALL BE DESIGNED BY ENGINEERS RETAINED BY THE CONCRETE SUPPLIER ACCORDING TO THE CRITERIA CONTAINED WITHIN THESE NOTES AND AS SHOWN ON THE CONTRACT DRAWINGS. SUBMIT ALL CONCRETE MIX DESIGNS TO THE ENGINEER FOR REVIEW AND APPROVAL PRIOR TO CONSTRUCTION. ALL SUBMITTED MIX DESIGNS SHALL INCLUDE SAMPLE CYLINDER BREAK TEST RESULTS CONFIRMING COMPRESSIVE STRENGTH OF EACH MIX DESIGN.
- ALL CONCRETE SHALL HAVE A WATER REDUCING ADMIXTURE AS REQUIRED TO INCREASE WORKABILITY. WORKABILITY SHALL NOT BE ACHIEVED THROUGH THE ADDITION OF WATER TO THE MIX. CONCRETE SLUMP PRIOR TO ADMIXTURE ADDITION SHALL BE A MAXIMUM OF 3 INCHES. PROPORTIONS OF CONCRETE ADMIXTURES SHALL BE DETERMINED BY THE CONCRETE MIX DESIGNER.
- DO NOT USE ADMIXTURES THAT CONTAIN CHLORIDES. FLY ASH OR OTHER POZZOLANS SHALL NOT BE USED IN ANY CONCRETE UNLESS APPROVED BY THE ENGINEER.
- ALL CONCRETE WORK SHALL COMPLY WITH THE REQUIREMENTS OF THE LATEST EDITIONS OF THE FOLLOWING ACI PUBLICATIONS: ACI 301 (SPECIFICATIONS FOR STRUCTURAL CONCRETE FOR BUILDINGS), ACI 302.1R (GUIDE TO CONCRETE FLOOR AND SLAB CONSTRUCTION), ACI 304 (GUIDE FOR MEASURING, MIXING, TRANSPORTING AND PLACING CONCRETE), ACI 311.4 (GUIDE FOR CONCRETE INSPECTION), ACI 315 (DETAILS AND DETAILING OF CONCRETE REINFORCEMENT), ACI 318 (BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE), ACI 347R (GUIDE TO FORMWORK FOR CONCRETE), AND ACI 546R (GUIDE TO CONCRETE REPAIR). IN ADDITION, REFER TO THE CRSI - MANUAL OF STANDARD PRACTICE FOR DETAILS ON THE FABRICATION AND PLACEMENT OF CONCRETE REINFORCING.
- ALL REINFORCING STEEL SHALL BE MANUFACTURED FROM HIGH STRENGTH BILLET STEEL CONFORMING TO ASTM DESIGNATION A615 GRADE 60. WWF SHALL BE COMPRISED OF CARBON STEEL PLAN WIRES FABRICATED INTO SHEETS OR ROLLS IN ACCORDANCE WITH ASTM A1064.
- CONTRACTOR SHALL PROVIDE ALL BOLSTERS, CHAIRS, BAR POSITIONERS, ETC. AS REQUIRED TO SET REBAR AND SLAB WWF TO REQUIRED DIMENSIONS INDICATED ON DRAWINGS.
- REFER TO ARCHITECTURAL DRAWINGS FOR ALL WATERPROOFING DETAILS.
- ALL CONCRETE PLACED AT TEMPERATURES BELOW 50 DEGREES F. SHALL CONFORM TO THE REQUIREMENTS OF ACI 308R "GUIDE TO COLD WEATHER CONCRETING". ALL CONCRETE PLACED IN HOT WEATHER SHALL CONFORM TO THE REQUIREMENTS OF ACI 308R "GUIDE TO HOT WEATHER CONCRETING".
- THE CONTRACTOR SHALL COORDINATE THE LOCATION OF ALL SLEEVES, INSERTS, ANCHOR BOLTS, AND OTHER EMBEDDED ITEMS AS REQUIRED BY OTHER TRADES.
- ALL CONCRETE SHALL BE PROPERLY CONSOLIDATED THROUGH THE USE OF VIBRATORS. VIBRATORS SHALL NOT BE USED TO TRANSPORT CONCRETE ALONG FORMWORK.
- CONTRACTOR SHALL FOLLOW THE GUIDELINES IN ACI 303 - GUIDE TO CAST-IN-PLACE ARCHITECTURAL CONCRETE PRACTICE TO ACHIEVE SPECIFIED SURFACE FINISHES OF EXPOSED CONCRETE. COORDINATE WITH ARCHITECTURAL DRAWINGS FOR ADDITIONAL REQUIREMENTS ON FINISH.
- UNLESS OTHERWISE SPECIFIED, A TESTING AGENCY SHALL BE EMPLOYED FOR EVALUATION AND QUALITY CONTROL OF CONCRETE PLACED. THE TESTING AGENCY PERFORMING ACCEPTANCE TESTING SHALL COMPLY WITH ASTM C1017. CONCRETE SHALL BE TESTED IN ACCORDANCE WITH THE REQUIREMENTS OF ACI 318. FREQUENCY OF CONCRETE TESTING SHALL MEET THE REQUIREMENTS OF ACI 318 AT A MINIMUM UNLESS REQUIRED OTHERWISE BY THE APPLICABLE BUILDING CODE.

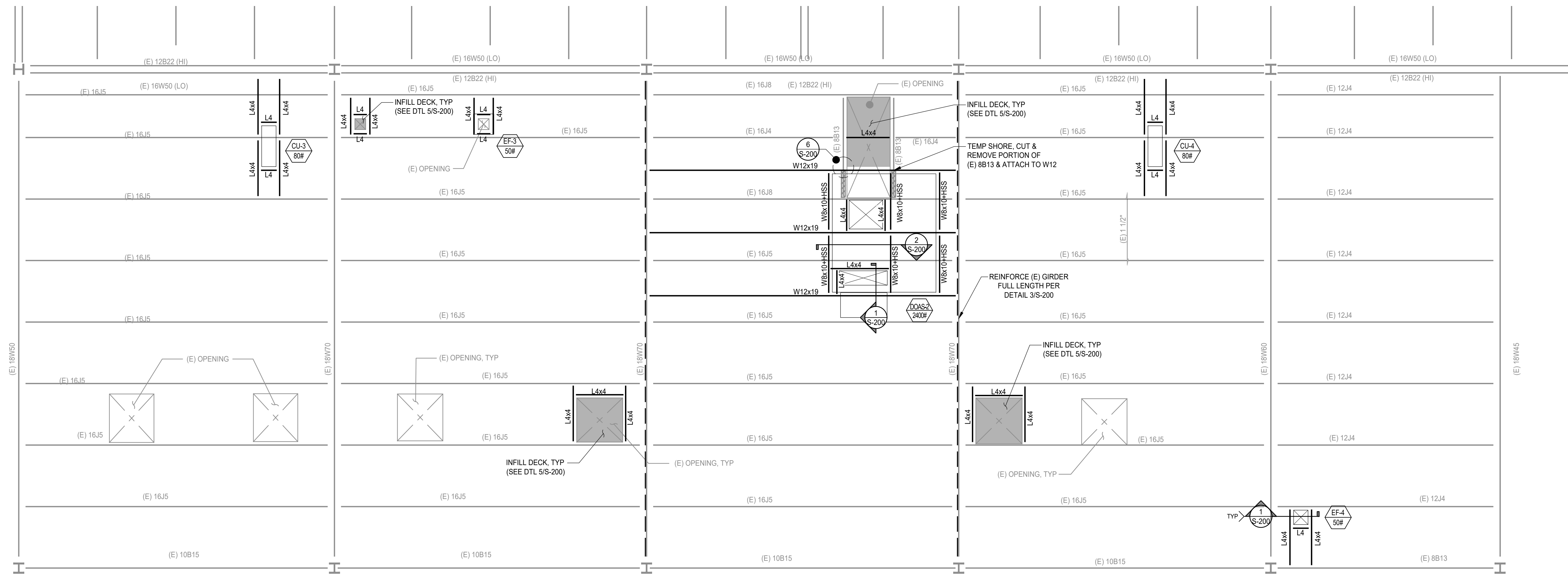


PARTIAL ROOF FRAMING PLAN

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

DESIGN LIVE LOAD = 20 PSF

- TOP OF STEEL ELEVATIONS SHALL BE VERIFIED IN FIELD.
- (E) DECK - DENOTES SPAN OF EXISTING 4" CONC SLAB ON FORM DECK.
- ALL EXISTING STEEL BEAMS AND JOISTS SHOULD BE FIELD VERIFIED.
- SECTIONS SHOWN ON PLAN APPLY TO SIMILAR SECTIONS THROUGHOUT THE BUILDING.
- (VIF) DENOTES CONDITION TO BE VERIFIED IN FIELD.
- (E) DENOTES EXISTING MEMBER.
- SEE STRUCTURAL NOTES ON THIS DRAWING FOR FURTHER INFORMATION.
- "L4x4" DENOTES L4x4x1/4 ANGLE TO SUPPORT NEW MECHANICAL ROOF UNIT OR OPENING. SEE SECTION 1 ON SHEET S-200 FOR CONNECTION DETAILS.
- DENOTES JOIST OR BEAM REINFORCEMENT REQ'D. SEE SECTION 3 OR 4 ON S-200 FOR DETAILS.
- DENOTES INFILL OF EXISTING OPENING TO MATCH EXISTING. SEE SECTION 5 ON SHEET S-200 FOR DETAILS.
- SEE MECHANICAL DRAWINGS FOR ALL ROOF TOP EQUIPMENT AND CURB ATTACHMENTS TO ROOF STRUCTURE.



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STRUCTURAL ENGINEER:

MICHAEL A. BEACH & ASSOCIATES, LLC

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 Project No. 820.54

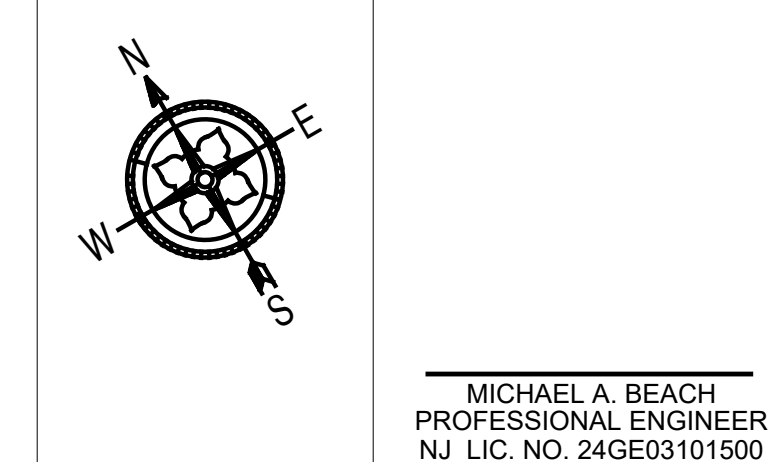
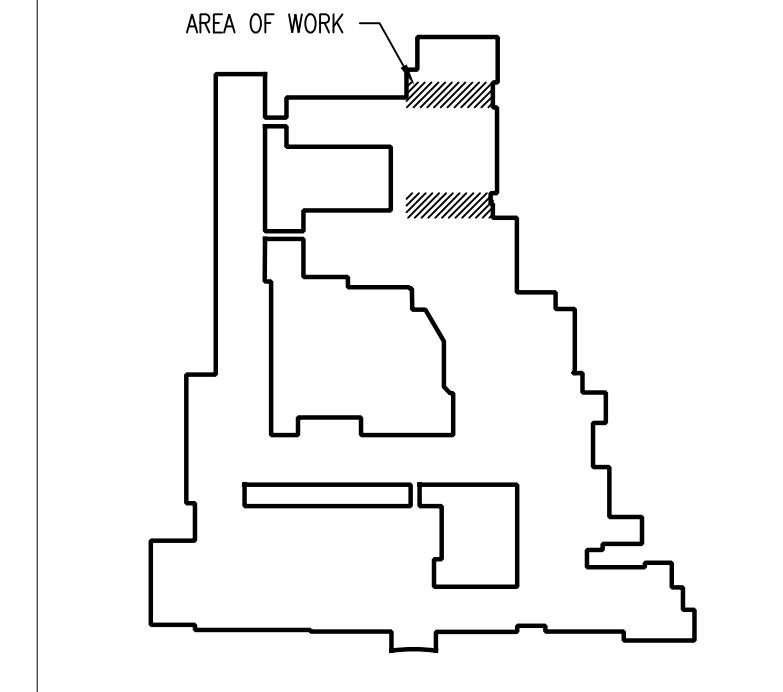
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No.	Date	Description
-	01/12/2024	ISSUED FOR BID
REVISIONS:		

KEY PLAN:



MICHAEL A. BEACH
 PROFESSIONAL ENGINEER
 NJ LIC. NO. 24GE03101500

PROJECT: REF21-09-8195
LRHSD REFERENDUM
PHASE 1 HVAC PROJECTS

LENAPE HIGH SCHOOL
 235 HARTFORD RD
 MEDFORD, NEW JERSEY

DRAWING TITLE:
 PARTIAL ROOF FRAMING PLAN

DRAWN BY: MJS	SCALE: AS NOTED	DWG. SIZE: 42x30
CHECKED BY: MBB	DRAWING NO.:	REVISION:
DATE: 12/21/2023	S-100	0
PROJECT NO.: 8C22002		

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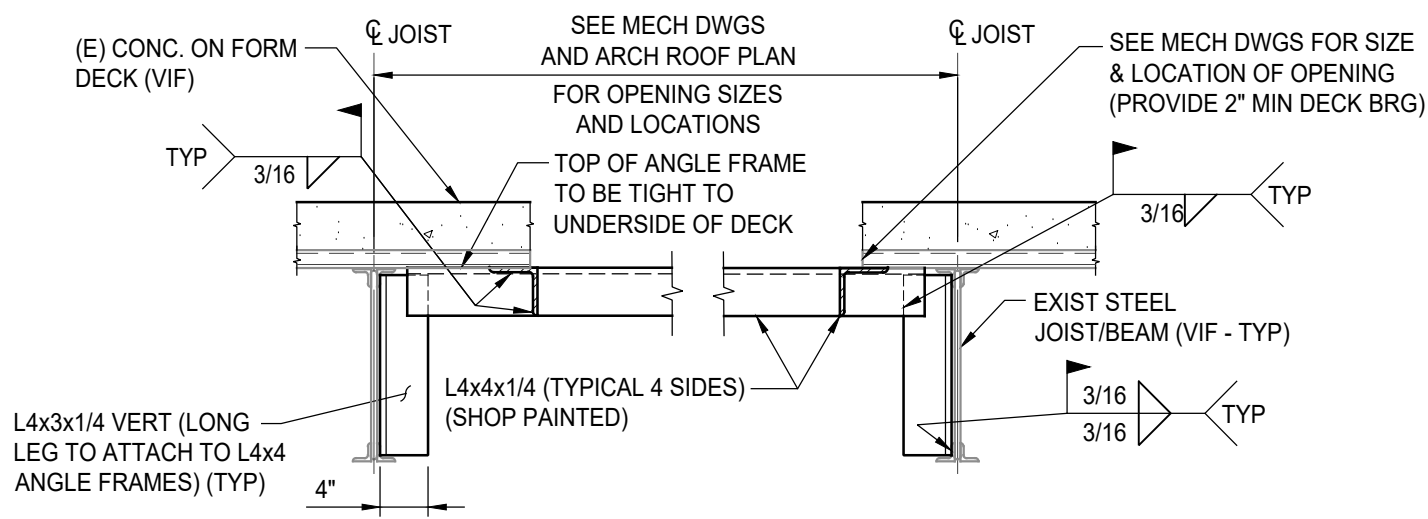
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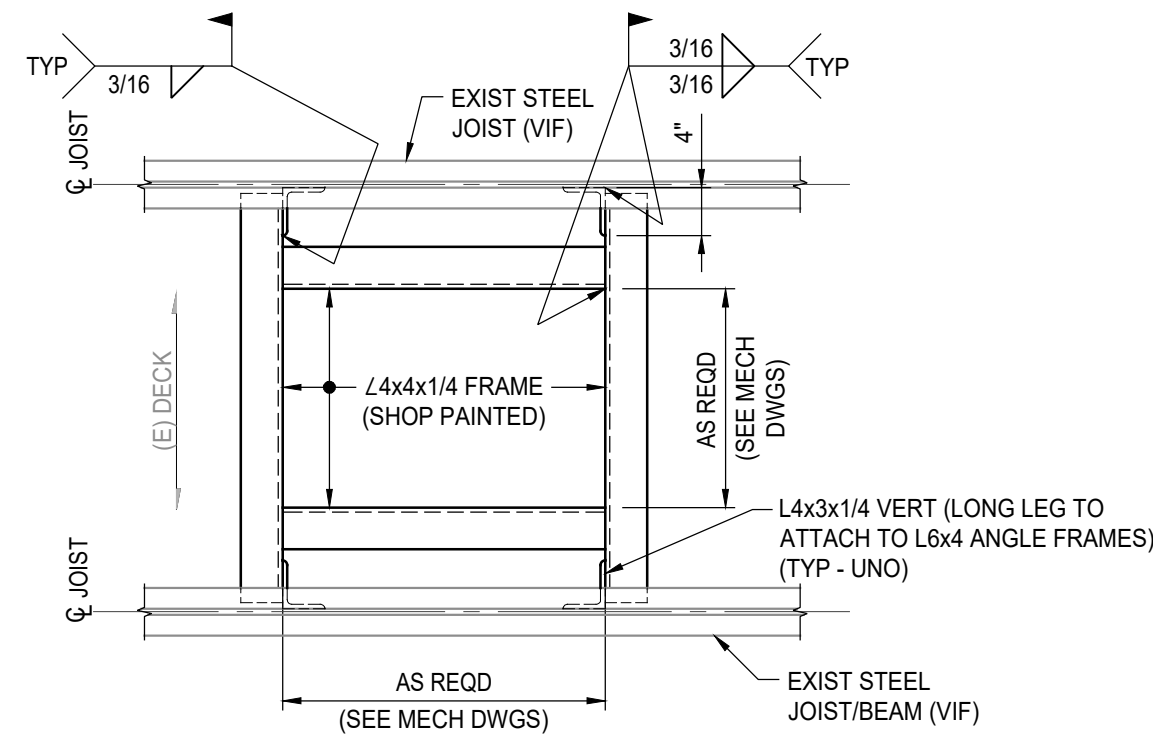
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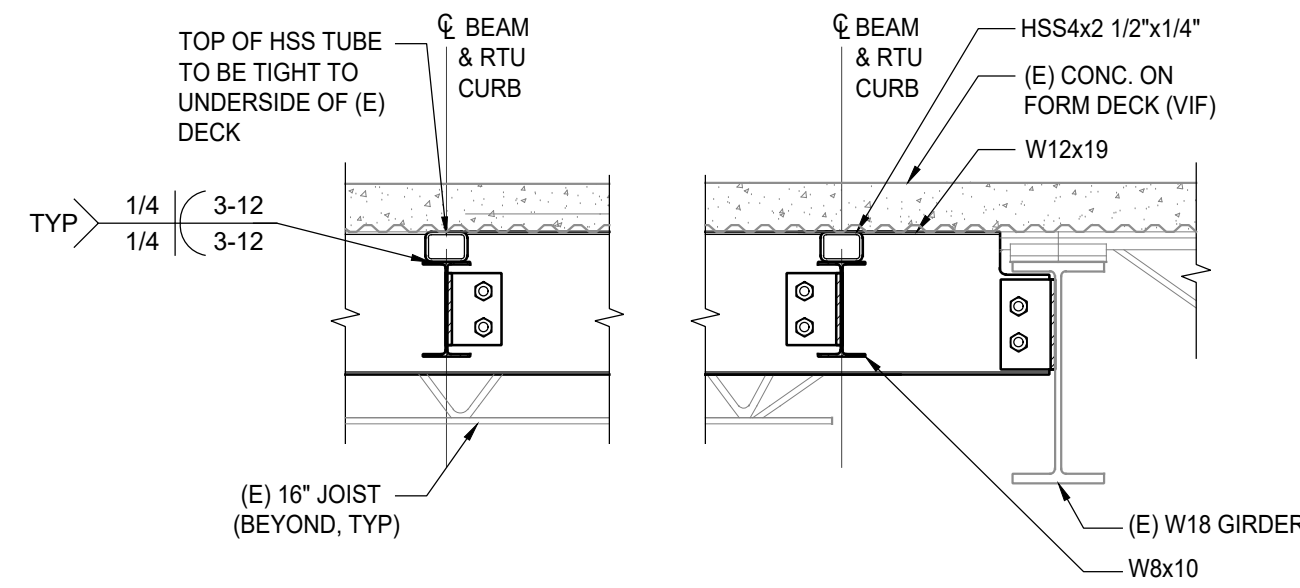
SECTION



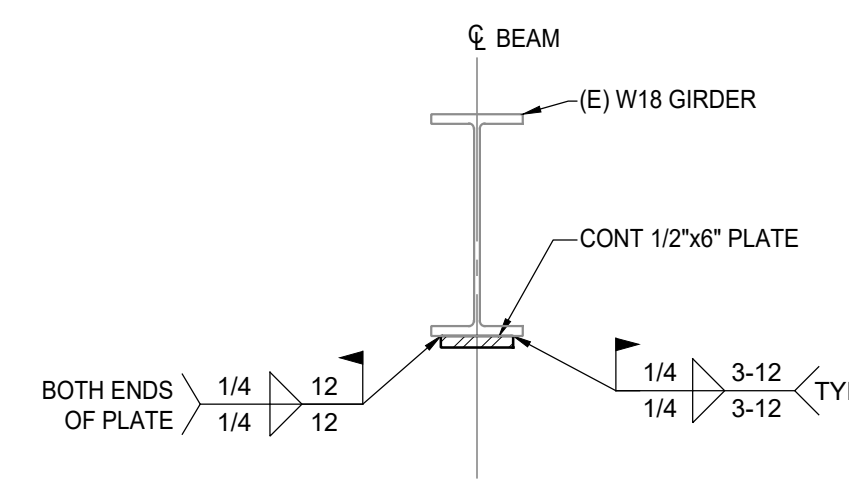
PLAN

1 TYPICAL L4x4 ROOF SUPPORT DETAIL @ JOIST
 S-200 NOT TO SCALE

- PROVIDE AT PERIMETER OF ALL ROOFTOP MECHANICAL UNITS AND ROOF OPENINGS LARGER THAN 1'-0" SQUARE.
- REFER TO ALL CONTRACT DRAWINGS OF THIS PROJECT FOR LOCATIONS WHERE THIS DETAIL IS REQUIRED.
- ATTACHMENT OF MECH UNIT TO CURB AND CURB TO STRUCTURAL STEEL IS DESIGNED BY OTHERS.
- CLEAN AND PREP ALL EXISTING SURFACES PRIOR TO FIELD WELDING.

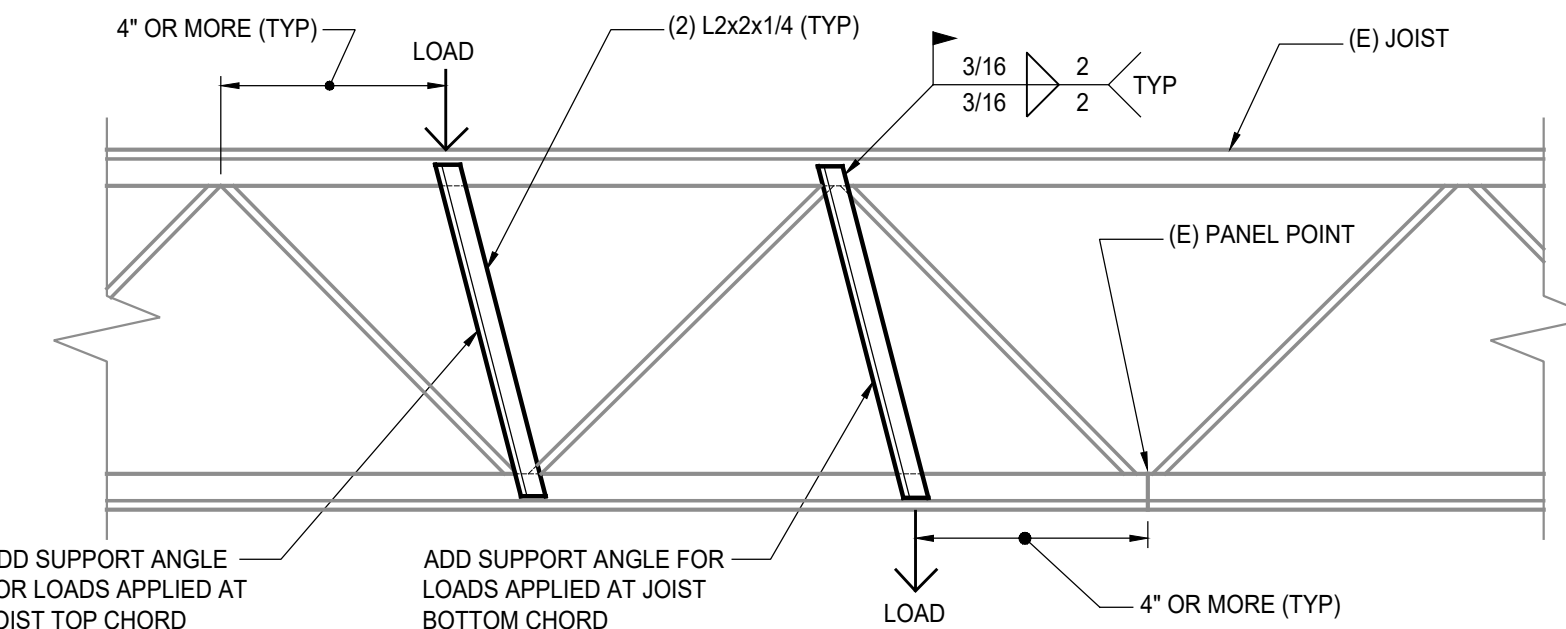


2 SECTION AT ROOF FRAMING
 S-200 NOT TO SCALE



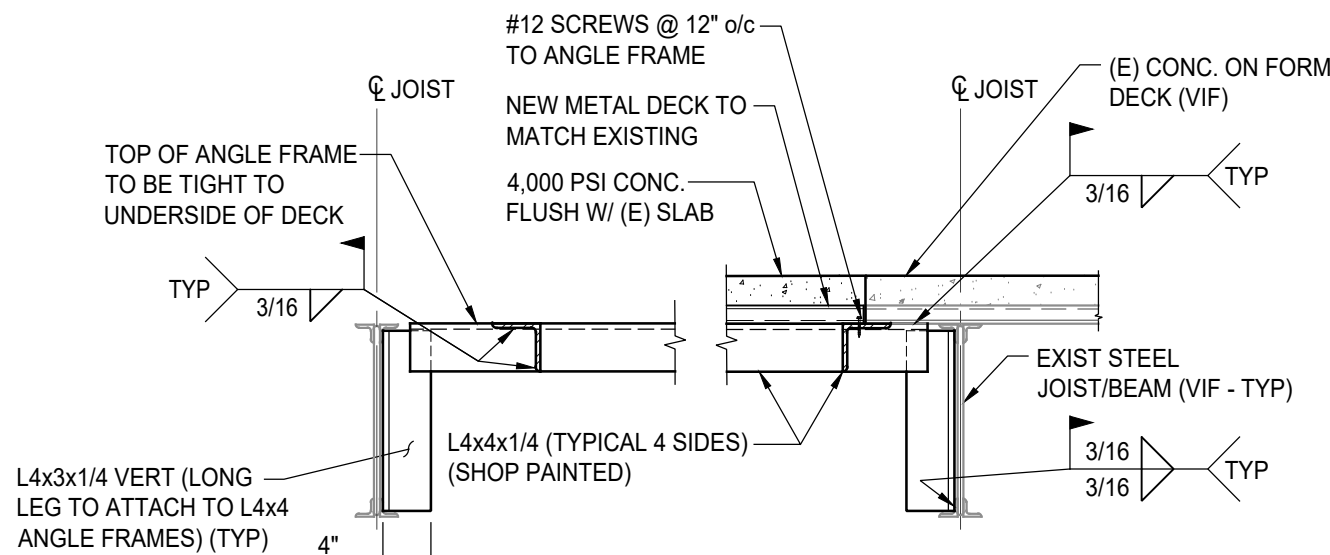
3 TYPICAL EXISTING BEAM REINFORCEMENT DETAIL
 S-200 NOT TO SCALE

- NOTES:**
- THE BEAM REINFORCEMENT SHOWN ABOVE APPLIES OR EXTENDS THE FULL LENGTH OF THE BEAM FROM END TO END UNLESS NOTED OTHERWISE ON PLAN.
 - CLEAN AND PREP ALL EXISTING SURFACES PRIOR TO FIELD WELDING.

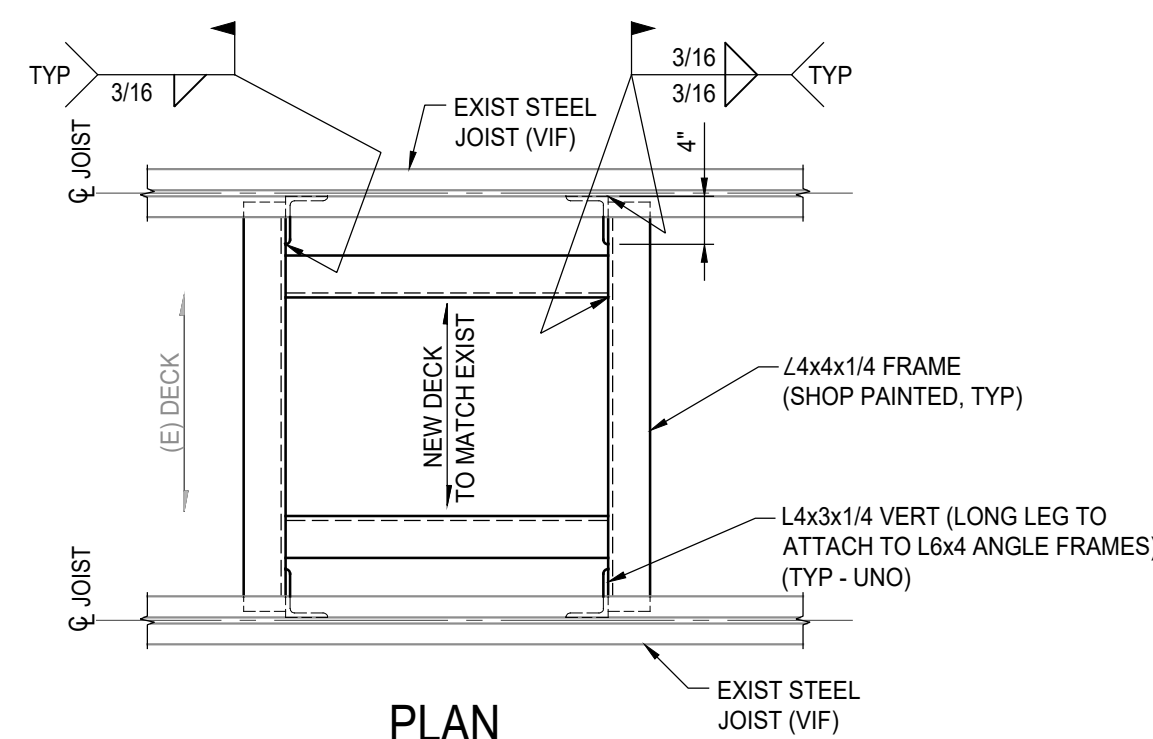


4 TYPICAL JOIST REINFORCING DETAIL @ APPLIED LOADS
 S-200 NOT TO SCALE

- NOTES:**
- CLEAN AND PREP ALL EXISTING SURFACES PRIOR TO FIELD WELDING.

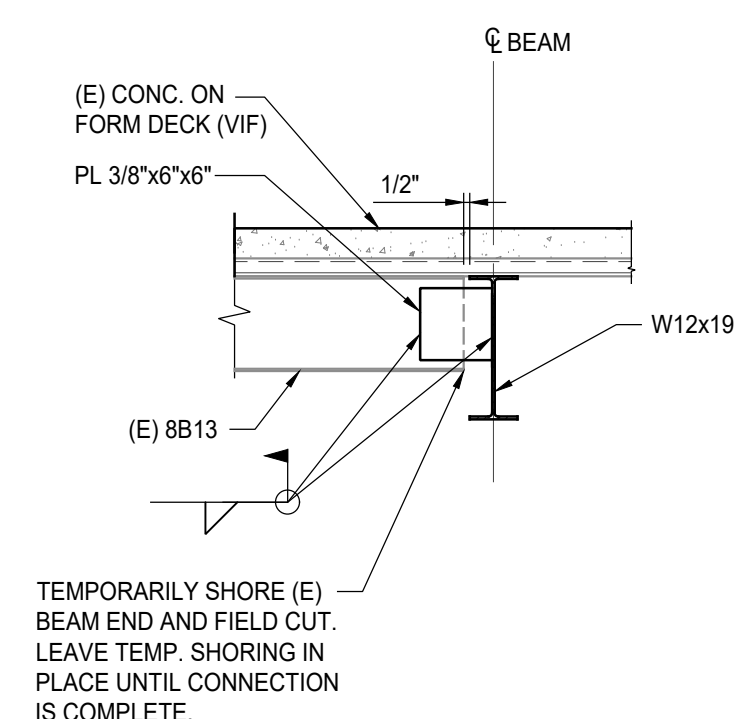


SECTION



PLAN

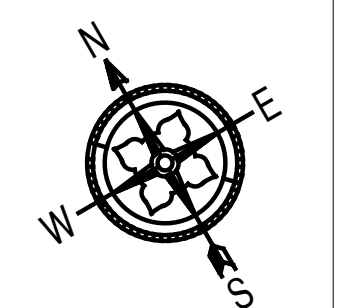
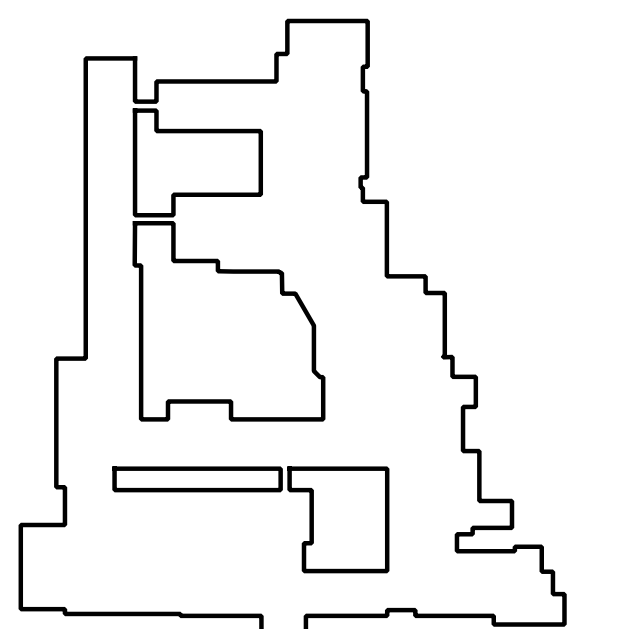
5 TYPICAL DECK INFILL DETAIL
 S-200 NOT TO SCALE



6 SECTION
 S-200 NOT TO SCALE

TEMPORARILY SHORE (E) BEAM END AND FIELD CUT. LEAVE TEMP. SHORING IN PLACE UNTIL CONNECTION IS COMPLETE.

KEY PLAN:



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DRAWING TITLE:

SECTIONS & DETAILS

DRAWN BY:	MJS	SCALE:	AS NOTED	DWG SIZE:	42x30
CHECKED BY:	MAB	DRAWING NO.:		REVISION:	
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