

DESIGN CRITERIA

- STRUCTURE HAS BEEN DESIGNED TO COMPLY WITH 2023 FLORIDA BUILDING CODE AND SUBSEQUENT REFERENCE STANDARDS.
- RISK CATEGORY: II
- SUPERIMPOSED DEAD LOADS:

ROOF	TYPICAL	20 PSF
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- SUPERIMPOSED LIVE LOADS: LIVE LOAD REDUCTION USED AS ALLOWED PER CODE

ROOF	TYPICAL	20 PSF (REDUCIBLE)
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- MECHANICAL UNITS: THE CONTRACTOR SHALL CONFIRM THE ACTUAL MECHANICAL UNITS PURCHASED ARE OF WEIGHT AND SIZE SUCH THAT:
 - THE UNIT WEIGHT IS LESS THAN OR EQUAL TO WEIGHT LISTED ON PLAN.

TOTAL SUPERIMPOSED LOAD UNDER UNIT =	TOTAL EQUIPMENT WEIGHT / UNIT FOOTPRINT AREA =	INDICATED SERVICE LEVEL DESIGN LIVE LOAD
TOTAL EQUIPMENT WEIGHT =	OPERATING WEIGHT OF UNIT + CONCRETE HOUSEKEEPING PAD + INERTIA BLOCK + OTHER ANCILLARY ITEMS ASSOCIATED WITH THE EQUIPMENT	
UNIT FOOTPRINT AREA =	EFFECTIVE AREA OF UNIT OR HOUSEKEEPING PAD, WHICHEVER IS LARGER	
EFFECTIVE AREA =	(LENGTH + 6 FEET) X (WIDTH + 6 FEET)	

CONTRACTOR SHALL NOTIFY THE STRUCTURAL ENGINEER PRIOR TO CONSTRUCTION ON THE LOCATION OF ANY MECHANICAL UNIT WHERE THE SUPERIMPOSED LOAD UNDER THE UNIT EXCEEDS THE INDICATED DESIGN SIZE AND LOAD FOR THE ROOF AND/OR LIVE LOAD FOR THE FLOOR AS INDICATED ON THE PLAN.

- WIND:

BASIC WIND SPEED	VULT = 120 MPH VASO = 93 MPH
EXPOSURE CLASS	C
INTERNAL PRESSURE COEFFICIENT, GCpi	±0.18

SEE S0.2 FOR COMPONENTS & CLADDING WIND PRESSURE AND ZONE DIAGRAM.
- RAIN:

RAIN LOADING, R	30 PSF
RAIN INTENSITY, I (15-MIN INTENSITY)	8.29 IN/HR

GENERAL

- DURING THE CONSTRUCTION PERIOD, THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE SAFETY OF PERSONNEL AND PROPERTY ON AND AROUND THE JOBSITE. THE CONTRACTOR SHALL PROVIDE ADEQUATE SHORING, BRACING, GUYS, ETC., IN ACCORDANCE WITH ALL NATIONAL, STATE, AND LOCAL SAFETY ORDINANCES. TEMPORARY BRACING, SHORING, GUYNIG, ETC., SHALL AVOID EXCESSIVE STRESSES AND HOLD STRUCTURAL ELEMENTS IN PLACE DURING CONSTRUCTION. THE STRUCTURE SHOULD NOT BE CONSIDERED STABLE UNTIL ALL STRUCTURAL ELEMENTS HAVE BEEN CONSTRUCTED IN ACCORDANCE WITH THE CONTRACT DOCUMENTS.
- ALL DRAWINGS AND SPECIFICATIONS ARE CONSIDERED TO BE A PART OF THE CONTRACT DOCUMENTS. THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR THE REVIEW AND COORDINATION OF ALL DRAWINGS PRIOR TO THE START OF CONSTRUCTION. ANY DISCREPANCIES OR OMISSIONS SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT PRIOR TO THE START OF CONSTRUCTION SO A CLARIFICATION CAN BE ISSUED. ANY WORK THAT DEVIATES FROM OR IS PERFORMED IN CONFLICT WITH THE CONTRACT DOCUMENTS OR ANY CODE REQUIREMENTS SHALL BE CORRECTED BY THE CONTRACTOR AT THEIR OWN EXPENSE AND AT NO EXPENSE TO THE OWNER OR THE DESIGN PROFESSIONALS.
- THE CONTRACT DOCUMENTS REPRESENT THE FINISHED STRUCTURE. THEY DO NOT INDICATE THE METHOD OF CONSTRUCTION. THE CONTRACTOR IS RESPONSIBLE FOR DETERMINING ALLOWABLE CONSTRUCTION LOADS AND FOR DETERMINING SEQUENCES OF CONSTRUCTION. THE CONTRACTOR SHALL PROVIDE ALL MEASURES NECESSARY TO PROTECT THE STRUCTURE AND SAFETY OF WORKERS DURING CONSTRUCTION. SUCH MEASURES SHALL INCLUDE, BUT NOT BE LIMITED TO: FALSEWORK, FORMWORK, STAGING, BRACING, AND SHORING. THE CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO MAINTAIN AND ENSURE THE INTEGRITY OF THE STRUCTURE AT ALL STAGES OF CONSTRUCTION.
- ALL DIMENSIONS AND SITE CONDITIONS SHALL BE VERIFIED BY THE CONTRACTOR AT THE JOBSITE PRIOR TO BID SUBMITTAL. START OF SHOP DRAWINGS, START OF CONSTRUCTION, AND/OR FABRICATION OF MATERIALS, IF DISCREPANCIES ARE ENCOUNTERED, OR CONDITIONS DEVELOPED THAT ARE NOT COVERED BY THE CONTRACT DOCUMENTS, THE ARCHITECT SHALL BE NOTIFIED FOR CLARIFICATION.
- STRUCTURAL SUBSTITUTIONS MAY BE ALLOWED WITH THE APPROVAL OF THE STRUCTURAL ENGINEER. SUPPLIER SHALL PROVIDE SIGNED AND SEALED DESIGN CALCULATIONS OR SUITABLE PRODUCT LITERATURE FOR THE COMPONENTS. ALL PRODUCT SUBSTITUTIONS SHALL INCLUDE A CODE EVALUATION REPORT SPECIFIC TO THE BUILDING CODE LISTED IN THE DESIGN DESCRIPTION.
- STRUCTURAL DRAWINGS INCLUDE DIMENSIONS AND DIMENSIONS FOR STRUCTURAL INTEGRITY BUT DO NOT SHOW ALL DETAIL DIMENSIONS TO FIT INTRICATE ARCHITECTURAL AND MECHANICAL DETAILS. CONTRACTOR SHALL CONSTRUCT THE WORK SO IT WILL CONFORM TO THE CLEARANCES REQUIRED BY ARCHITECTURAL, MECHANICAL, AND ELECTRICAL DESIGN.
- ALL SYMBOLS AND ABBREVIATIONS USED ON THE DRAWINGS ARE CONSIDERED TO BE CONSTRUCTION STANDARDS. IF CLARIFICATION IS REQUIRED, THE CONTRACTOR SHALL NOTIFY THE ARCHITECT PRIOR TO PROCEEDING WITH THE WORK.
- DO NOT SCALE DRAWINGS. PRINTED DIMENSIONS HAVE PRECEDENCE OVER SCALED DRAWINGS AND LARGE-SCALE OVER SMALL-SCALE DRAWINGS. CONTRACTOR TO DETERMINE FINAL DIMENSION WITH ARCHITECT.
- TYPICAL DETAILS SHALL APPLY TO SITUATIONS OCCURRING ON THE PROJECT THAT ARE THE SAME OR SIMILAR TO THOSE SPECIFICALLY REFERENCED. WHERE NO DETAILS ARE GIVEN, CONSTRUCTION SHALL BE AS SHOWN FOR SIMILAR WORK.
- SEE ARCHITECTURAL, ELECTRICAL, AND MECHANICAL DRAWINGS FOR DETAILS, CONDITIONS, PITS, TRENCHES, PADS, DEPRESSIONS, ROOF / FLOOR OPENINGS, TOP OF WALL ELEVATIONS, STAIRS, SLEEVES, ITEMS TO BE EMBEDDED OR ATTACHED TO STRUCTURAL ELEMENTS, ETC., NOT SHOWN ON THE STRUCTURAL DRAWINGS. FOR THESE NON-STRUCTURAL ELEMENTS SHOWN ON STRUCTURAL DRAWINGS, THEY ARE FOR GENERAL INFORMATION ONLY.
- ESTABLISH AND VERIFY ALL OPENINGS AND INSERTS FOR MECHANICAL, ELECTRICAL, AND PLUMBING WITH APPROPRIATE TRADE CONTRACTORS. OPENING SIZES AND LOCATIONS SHOWN FOR DUCTS, PIPE, INSERTS, AND OTHER PENETRATIONS WHEN SHOWN ARE FOR GENERAL INFORMATION ONLY AND SHALL BE VERIFIED PRIOR TO FORMING.
- THE EXACT WEIGHTS, DIMENSIONS, AND LOCATIONS OF ALL MECHANICAL UNITS AND ELECTRICAL GEAR SUPPORTED ON STRUCTURAL FRAMING SHALL BE DETERMINED AND COORDINATED BY THE CONTRACTOR PRIOR TO DETAILING THE STRUCTURAL FRAMING SUPPORTING THOSE UNITS. IF THE UNIT WEIGHTS ARE GREATER THAN THE WEIGHTS SHOWN ON THE STRUCTURAL DRAWINGS, THE STRUCTURAL ENGINEER SHALL BE NOTIFIED PRIOR TO DETAILING THE STRUCTURE. UNIT WEIGHTS, DIMENSIONS, AND LOCATIONS SHOWN ON THE STRUCTURAL DRAWINGS ARE APPROXIMATE ONLY AND SHALL NOT BE USED FOR DETAILING THE STRUCTURE.
- PROVIDE TEMPORARY BLOCKOUTS AND TEMPORARY OPENINGS IN THE STRUCTURE AS REQUIRED TO PERMIT INSTALLATION OF ALL WORK. BLOCKOUTS AND TEMPORARY OPENINGS SHALL BE LOCATED, CONFIGURED, DETAILED, AND FILLED IN A MANNER THAT ALTERS NEITHER THE STRENGTH OF THE STRUCTURAL FRAMING NOR THE STRENGTH OF CONNECTIONS. INFILL ALL BLOCKOUTS AND TEMPORARY OPENINGS USING THE MATERIALS SPECIFIED FOR THE FRAMING AT THE LOCATIONS WHERE THE BLOCKOUTS AND OPENINGS OCCUR. SUBMIT DRAWINGS INDICATING THE LOCATIONS, DIMENSIONS, AND DETAILS OF ALL PROPOSED BLOCKOUTS AND OPENINGS AND DETAILS INDICATING THE MANNER IN WHICH THE BLOCKOUTS AND OPENINGS WILL BE FILLED.
- PENETRATIONS IN CONCRETE SHALL BE CAST-IN-PLACE AND SHALL NOT BE PERMITTED EXCEPT AS SHOWN IN THE CONTRACT DOCUMENTS.
- BEFORE SUBMITTING A PROPOSAL FOR THIS WORK, CONTRACTOR SHALL VISIT THE PREMISES AND BECOME FULLY ACQUAINTED WITH FIELD CONDITIONS. TEMPORARY CONSTRUCTION REQUIRED, QUANTITIES AND TYPE OF EQUIPMENT, ETC. THE PROPOSAL SHALL INCLUDE ALL SUMS REQUIRED TO DO THE WORK.
- ELEMENTS SUCH AS NON-BEARING PARTITIONS, ETC. ATTACHED TO AND/OR SUPPORTED BY THE STRUCTURE SHALL TAKE INTO ACCOUNT DEFLECTIONS AND OTHER STRUCTURAL MOVEMENTS. THE STRUCTURAL FRAMING SHALL BE DESIGNED TO LIMIT DRIFT AND DEFLECTION OF THE STRUCTURAL SYSTEM TO LESS THAN THE MAXIMUM PERMITTED DEFLECTIONS LISTED IN THE BUILDING CODE. THE CONTRACTOR SHALL COORDINATE THE WORK OF OTHER TRADES TO CORRECT THESE DEFLECTIONS AND TO ACCOMMODATE CONSTRUCTION TOLERANCES.
- TOPS OF ALL MASONRY WALLS SHALL BE CONNECTED TO THE UNDERSIDE OF THE STRUCTURAL FRAMING PER DETAILS PROVIDED ON THE STRUCTURAL DRAWINGS. SEE ARCHITECTURAL DRAWINGS FOR LOCATIONS OF SUCH WALLS.

- FIRE PROTECTION FOR ALL STRUCTURAL PARTS SHALL BE PROVIDED AS SPECIFIED BY THE ARCHITECTURAL DRAWINGS. UL FIRE RESISTANCE RATING RESTRAINT CLASSIFICATION AS FOLLOWS:
 - PRIMARY STRUCTURAL FRAME" AS DEFINED BY IBC SECTION 202 IS "RESTRAINED" EXCEPT AS NOTED IN FOLLOWING NOTE:
 - THE FOLLOWING FRAMING IS "UNRESTRAINED":
 - FRAMING SUPPORTED BY BEARING WALLS.
 - CONCRETE WALLS IN END BAYS AND OTHER LOCATIONS WHERE THE END OF THE FRAMING IS NOT ABUTTING FRAMING IN AN ADJACENT BAY.
 - HOLLOW CORE SLABS IN END BAYS AND OTHER LOCATIONS WHERE THE END OF THE SLAB IS NOT ABUTTING SLABS IN AN ADJACENT BAY.
 - STEEL JOISTS IN END BAYS ON ROOFS SUPPORTING STEEL DECK.
 - ALL WOOD CONSTRUCTION.

SUBMITTALS

- SUBMITTALS ARE:
 - MATERIAL PRODUCT DATA FOR STRUCTURAL MATERIALS
 - CONCRETE MIX DESIGNS
 - CONCRETE AND MASONRY REINFORCING
 - CONCRETE CONSTRUCTION JOINT LAYOUT
 - STEEL FABRICATION AND MISCELLANEOUS METALS
 - STRUCTURAL STEEL
 - STEEL JOISTS AND JOIST GIRDERS
 - STEEL JOIST CALCULATIONS
 - STEEL DECK
 - STEEL CONNECTIONS
 - MASONRY REINFORCEMENT LAYOUT
 - TILT PANEL LAYOUT AND DIMENSIONS
 - TILT PANEL REINFORCING
 - TILT PANEL LIFT DESIGN
 - TILT PANEL EMBED LAYOUT
 - PRE-MANUFACT CANOPY
- SUBMITTALS SHALL BE REVIEWED AND COORDINATED PRIOR TO SUBMITTING TO THE ARCHITECT. EACH SHOP DRAWING SUBMITTED SHALL BE STAMPED INDICATING REVIEW BY THE CONSTRUCTION MANAGER/GENERAL CONTRACTOR AND REVIEW BY THE ARCHITECT SHALL NOT BEGIN UNTIL THIS IS COMPLETE. WORK SHALL NOT BEGIN WITHOUT REVIEW BY THE DESIGN PROFESSIONALS.
- SUBMITTALS SHALL BE REVIEWED BY THE DESIGN PROFESSIONALS FOR GENERAL CONFORMANCE WITH DESIGN CONCEPT ONLY. NOTATIONS MADE BY THE DESIGN PROFESSIONALS ON THE SHOP DRAWINGS DO NOT RELIEVE THE CONTRACTOR FROM COMPLYING WITH THE REQUIREMENTS OF THE DRAWINGS.
- FOR ADDITIONAL INFORMATION ON REQUIRED SUBMITTALS, SEE INDIVIDUAL MATERIAL SECTIONS.

DEFERRED SUBMITTALS

- DEFERRED SUBMITTALS PER SECTION 107.3.4.1 SHALL BE SUBMITTED TO THE BUILDING OFFICIAL AND THE DESIGN PROFESSIONALS AND REVIEWED PRIOR TO INSTALLATION.
- DEFERRED SUBMITTALS ARE:
 - SITE-CAST TILT-UP CONCRETE ERECTION DRAWINGS
 - STEEL JOISTS AND JOIST GIRDERS
 - STRUCTURAL STEEL CONNECTIONS
 - EXTERIOR WALL SYSTEMS
 - CURTAIN WALL AND STOREFRONT SYSTEMS
 - COLD FORMED STEEL FRAMING AND CONNECTIONS
 - ROOFTOP EQUIPMENT ANCHORAGE AND CURBS
 - GRAVITY SUPPORT AND ANCHORAGE FOR MECHANICAL, ELECTRICAL, PLUMBING, AND FIRE PROTECTION EQUIPMENT AND SYSTEMS
 - PRE-MANUF CANOPY
- ALL DEFERRED SUBMITTALS SHALL BEAR THE STAMP AND SIGNATURE OF THE QUALIFIED PROFESSIONAL ENGINEER REGISTERED IN THE JURISDICTION WHERE THE PROJECT IS LOCATED. RESPONSIBLE FOR THE PREPARATION OF THESE DOCUMENTS.
- FACADE:
 - DESIGN AND DETAILING OF THE FACADE SYSTEM AND CONNECTIONS TO THE STRUCTURE SHALL TAKE INTO CONSIDERATION THE FOLLOWING MOVEMENTS:
 - ±1/2" VERTICAL DIFFERENTIAL DEFLECTION OF SLAB EDGES ON ADJACENT FLOORS
 - ±1/2" HORIZONTAL DIFFERENTIAL DEFLECTION BETWEEN ADJACENT FLOORS
 - DIFFERENTIAL THERMAL EXPANSION / CONTRACTION BETWEEN FACADE SYSTEM AND SUPPORTING PRIMARY STRUCTURAL SYSTEM
 - THE FACADE SHALL NOT BE INSTALLED UNTIL AFTER THE SUPERSTRUCTURE HAS BEEN PLUMBED, ALL FRAMING CONNECTIONS HAVE BEEN INSTALLED, AND ALL SHORES AND RESHORES HAVE BEEN REMOVED.
 - WHERE STRUCTURAL STEEL HORIZONTAL GIRTS ARE PROVIDED, THOSE GIRTS MAY BE USED ONLY TO RESIST LATERAL LOADS FROM THE FACADE. VERTICAL LOADS MAY NOT BE IMPOSED BY THE FACADE UPON THE GIRT FRAMING UNLESS THE SECTIONS AND DETAILS ON THE STRUCTURAL DRAWINGS SPECIFICALLY INDICATE THAT FACADE GRAVITY LOAD CONNECTIONS MAY BE MADE TO THE GIRTS.

DELEGATED DESIGN

- DELEGATED DESIGNS PER SECTION 107.3.4.1 SHALL BE SUBMITTED TO THE BUILDING OFFICIAL AND THE DESIGN PROFESSIONALS AND REVIEWED PRIOR TO INSTALLATION.
- DELEGATED DESIGNS ARE:
 - EXCAVATION, SHORING, AND UNDERPINNING
 - SITE-CAST TILT-UP CONCRETE ERECTION DRAWINGS
 - PRECAST CONCRETE ELEMENTS AND CONNECTIONS
 - STEEL JOISTS AND JOIST GIRDERS
 - STRUCTURAL STEEL CONNECTIONS
 - CURTAIN WALL AND STOREFRONT SYSTEMS
 - COLD FORMED STEEL FRAMING AND CONNECTIONS
 - ROOFTOP EQUIPMENT ANCHORAGE AND CURBS
 - BUILDING MAINTENANCE DAVIT FEDESTALS, TIE-BACKS, AND FALL ARREST SYSTEMS
 - GRAVITY SUPPORT AND ANCHORAGE FOR MECHANICAL, ELECTRICAL, PLUMBING, AND FIRE PROTECTION EQUIPMENT AND SYSTEMS
 - STEEL STORAGE RACKING SYSTEMS
 - PRE-MANUF CANOPY
- ALL DELEGATED DESIGNS SHALL BE SIGNED AND SEALED BY AN ENGINEER LICENSED IN THE JURISDICTION WITH JURISDICTION RESPONSIBLE FOR THE PREPARATION OF THESE DOCUMENTS.
- FACADE:
 - DESIGN AND DETAILING OF THE FACADE SYSTEM AND CONNECTIONS TO THE STRUCTURE SHALL TAKE INTO CONSIDERATION THE FOLLOWING MOVEMENTS:
 - ±1/2" VERTICAL DIFFERENTIAL DEFLECTION OF SLAB EDGES ON ADJACENT FLOORS
 - ±1/2" HORIZONTAL DIFFERENTIAL DEFLECTION BETWEEN ADJACENT FLOORS
 - DIFFERENTIAL THERMAL EXPANSION / CONTRACTION BETWEEN FACADE SYSTEM AND SUPPORTING PRIMARY STRUCTURAL SYSTEM
 - THE FACADE SHALL NOT BE INSTALLED UNTIL AFTER THE SUPERSTRUCTURE HAS BEEN PLUMBED, ALL FRAMING CONNECTIONS HAVE BEEN INSTALLED, AND ALL SHORES AND RESHORES HAVE BEEN REMOVED.
 - WHERE STRUCTURAL STEEL HORIZONTAL GIRTS ARE PROVIDED, THOSE GIRTS MAY BE USED ONLY TO RESIST LATERAL LOADS FROM THE FACADE. VERTICAL LOADS MAY NOT BE IMPOSED BY THE FACADE UPON THE GIRT FRAMING UNLESS THE SECTIONS AND DETAILS ON THE STRUCTURAL DRAWINGS SPECIFICALLY INDICATE THAT FACADE GRAVITY LOAD CONNECTIONS MAY BE MADE TO THE GIRTS.

EARTHWORK

- FOUNDATION DESIGN IS BASED ON GEOTECHNICAL REPORT DATED MAY 12TH, 2023 BY JACKSON GEOTECHNICAL ENGINEERING, LLC. FOLLOW RECOMMENDATIONS IN REPORT FOR ALL BLOCKOUTS AND TEMPORARY OPENINGS USING THE MATERIALS SPECIFIED FOR THE FRAMING AT THE LOCATIONS WHERE THE BLOCKOUTS AND OPENINGS OCCUR. SUBMIT DRAWINGS INDICATING THE LOCATIONS, DIMENSIONS, AND DETAILS OF ALL PROPOSED BLOCKOUTS AND OPENINGS AND DETAILS INDICATING THE MANNER IN WHICH THE BLOCKOUTS AND OPENINGS WILL BE FILLED.
- SOIL PROPERTIES:

ALLOWABLE NET SOIL BEARING PRESSURE:	3000 PSF
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- SUBGRADE PREPARATION FOR FOOTINGS AND SLABS-ON-GRADE SHALL BE IN ACCORDANCE WITH THE RECOMMENDATIONS OF THE GEOTECHNICAL REPORT AND SHALL BE IN COMPLIANCE WITH THE REGULATORY REQUIREMENTS OF THE GOVERNING AUTHORITIES HAVING JURISDICTION. THE CONTRACTOR SHALL DIRECT QUESTIONS REGARDING THE SUBGRADE PREPARATION REQUIREMENTS TO THE GEOTECHNICAL ENGINEER.
- ANY TESTS, INSPECTIONS, FIELD OBSERVATIONS, OR APPROVAL FROM THE GEOTECHNICAL ENGINEER SHALL BE PERFORMED PRIOR TO PLACEMENT OF CONCRETE. ALTERATIONS TO SITE PREPARATION OR GRADING SHALL BE REPORTED TO THE GEOTECHNICAL ENGINEER PRIOR TO CONSTRUCTION.
- ALL EXCAVATIONS SHALL BE PROPERLY AND SAFELY BACKFILLED. DO NOT PLACE BACKFILL BEHIND RETAINING / BASEMENT WALLS BEFORE CONCRETE HAS ATTAINED SPECIFIED COMPRESSIVE STRENGTH. CONTRACTOR SHALL BRACE OR PROTECT ALL WALLS BELOW GRADE FROM LATERAL LOADS UNTIL SUPPORTING FLOORS ARE COMPLETELY IN PLACE AND HAVE ATTAINED 7-DAY STRENGTH MINIMUM. BACKFILLING IS NOT PERMITTED FOR FOUNDATION WALLS UNTIL SUPPORTED SLAB TOP AND BOTTOM ARE IN PLACE OR THE WALL IS ADEQUATELY BRACED TO RESIST LATERAL LOADS.
- CONTRACTOR SHALL INVESTIGATE SITE DURING CLEARING AND EARTHWORK OPERATIONS FOR FILL MATERIAL OR OTHER STRUCTURES SUCH AS CESSPOOLS, CISTERNS, AND FOUNDATIONS. IF ANY SUCH MATERIAL OR STRUCTURES ARE FOUND, ARCHITECT SHALL BE NOTIFIED IMMEDIATELY.
- ANY REQUIRED IMPORT FILL SHALL HAVE A LOW POTENTIAL FOR EXPANSION AND SHALL BE APPROVED BY THE GEOTECHNICAL ENGINEER PRIOR TO IMPORTING.

- UTILITY LINES SHALL NOT BE PLACED THROUGH OR BELOW FOUNDATIONS WITHOUT THE STRUCTURAL ENGINEER'S APPROVAL. BELOW GRADE UTILITY OR PIPE ELEVATIONS, WHERE SHOWN, ARE INDICATED FOR REFERENCE ONLY. REQUIRED ELEVATIONS SHALL BE DETERMINED BY OTHERS AND COORDINATED WITH THE FOUNDATION DESIGN.
- EXCEPT AS NOTED IN FOLLOWING NOTE:
 - WHERE GRADE ELEVATIONS ARE APPROXIMATELY EQUAL ON BOTH SIDES OF WALLS, BACKFILL SHALL BE PLACED SO THAT IT IS NOT UNBALANCED BY MORE THAN 2 FEET ON EITHER SIDE.
- ALL REQUIRED BACKFILL AND UTILITY TRENCH BACKFILL WITHIN THE BUILDING AREA SHALL BE COMPACTED IN ACCORDANCE WITH THE GEOTECHNICAL REPORT.

SHALLOW FOUNDATIONS

- SEE THE GEOTECHNICAL REPORT FOR SHALLOW FOUNDATION REQUIREMENTS.
- FOUNDATION ELEVATIONS SHOWN INDICATE LOCATIONS WHERE ADEQUATE SOIL BEARING PRESSURE IS ANTICIPATED. IF INADEQUATE BEARING CAPACITY IS ENCOUNTERED, CONTACT STRUCTURAL ENGINEER FOR RESOLUTION. BEARING ELEVATIONS ARE ESTIMATED FROM SOIL BORING DATA INDICATED IN THE GEOTECHNICAL REPORT. DETERMINATION OF FINAL BEARING ELEVATIONS AND FIELD VERIFICATION OF ALLOWABLE BEARING PRESSURE SHALL BE MADE BY AN EXPERIENCED, QUALIFIED GEOTECHNICAL ENGINEER PRIOR TO PLACING FOUNDATIONS.
- FOUNDATIONS SHALL BE PLACED ON UNDISTURBED SOIL OR COMPACTED STRUCTURAL FILL AND CLEAN AND FREE OF LOOSE DEBRIS AND STANDING WATER AT TIME OF CONCRETE PLACEMENT.
- THE SLOPE BETWEEN THE LOWER EDGES OF ADJACENT FOOTINGS SHALL NOT EXCEED 45 DEGREES WITH THE HORIZONTAL UNON IN THE GEOTECHNICAL REPORT. CONTACT STRUCTURAL ENGINEER WHERE ADEQUATE SLOPE IS NOT ACHIEVED.

REINFORCING STEEL

- ALL REINFORCING STEEL SHALL BE DETAILED AND PLACED IN CONFORMANCE WITH ACI 318-19, "BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE", AND ACI 301, "SPECIFICATIONS FOR STRUCTURAL CONCRETE", UNON.
- REINFORCING STEEL UNON

REINFORCING STEEL UNON	ASTM A615, GR 60	Fy=60 KSI
WELDED REINFORCING STEEL	ASTM A706, GR 60	Fy=60 KSI
WELDED WIRE REINFORCING	ASTM A1064	Fy=60 KSI
EPOXY-COATED REINFORCING STEEL	ASTM A775	Fy=60 KSI
GALVANIZED-COATED REINFORCING STEEL	ASTM A767	Fy=60 KSI
STEEL WIRE	ASTM A1064	Fy=60 KSI
DEFORMED BAR ANCHORS	ASTM A1064	Fy=70 KSI
- HEADED DEFORMED BARS

HEADED DEFORMED BARS	ASTM A970	Fy=DEFORMED BAR TENSILE STRENGTH
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- MECHANICAL COUPLERS

MECHANICAL COUPLERS	TYPE 2	Fy=1.25xDEFORMED BAR TENSILE STRENGTH
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- HEADED STEEL STUD SHEAR REINFORCING

HEADED STEEL STUD SHEAR REINFORCING	ASTM A1044	Fy=51 KSI
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- CONCRETE REINFORCING STEEL SHALL CONFORM TO THE FOLLOWING STANDARDS:

CONCRETE EXPOSURE	MEMBER	REINFORCEMENT	COVER (IN)
CAST AGAINST AND PERMANENTLY IN CONTACT WITH GROUND	ALL	ALL	3
	ALL	#6 TO #18	2
EXPOSED TO WEATHER OR IN CONTACT WITH GROUND	ALL	#5 AND SMALLER	1 1/2
	ALL	#14 & #18	1 1/2
NOT EXPOSED TO WEATHER OR IN CONTACT WITH GROUND	SLABS, JOISTS, AND WALLS	#11 AND SMALLER	3/4
	BEAMS, COLUMNS, PEDESTAL S, AND SPIRALS, AND TENSION TIES	PRIMARY REINF, STIRRUPS, TIES, AND SPIRALS, AND HOOPS	1 1/2
OTHER	BOUNDARY ELEMENTS	ALL	1 1/2
	PARKING LEVEL SLABS	TOP BARS	1 1/2
		BOTTOM BARS	1

- MINIMUM CONCRETE COVER SHALL BE PROVIDED AS FOLLOWS TO THE OUTERMOST REINFORCING BARS
- ALL TILT-UP CONCRETE WALL PANELS SHALL BE CONSTRUCTED SUCH THAT THE CONTROL OF FORM DIMENSIONS, PLACING OF REINFORCEMENT, QUALITY CONTROL OF CONCRETE, AND CURING PROCEDURES ARE EQUAL TO THOSE NORMALLY EXPECTED IN A PRECAST PLANT. MINIMUM CONCRETE COVER FOR ALL REINFORCING BARS #11 AND SMALLER SHALL BE 3/4".
- REINFORCING STEEL SHALL BE INSTALLED TO WITHIN THE FOLLOWING TOLERANCES. INDICATED TOLERANCES ARE PER ACI 117, "SPECIFICATIONS FOR TOLERANCES FOR CONCRETE CONSTRUCTION AND MATERIALS".

ITEM FOR WHICH TOLERANCE IS BEING MEASURED	PERMITTED TOLERANCE
CONCRETE COVER FOR SLAB TOP AND BOTTOM BARS	±1/4"
COVER FOR OTHER REINFORCING STEEL	±3/8"
SPECIFIED SPACING BETWEEN PARALLEL BARS IN SLAB	± (SPECIFIED SPACING/4) BUT NOT TO EXCEED 1"
HORIZONTAL DEVIATION FROM SPECIFIED LOCATION UNON	±3"
SPACING AND LOCATION OF BEAM STIRRUPS	± (BEAM DEPTH IN INCHES/12) x 1"
SPACING AND LOCATION OF COLUMN TIES	± (MINIMUM COLUMN DIMENSION IN INCHES/12) x 1"
LOCATION OF ENDS OF BARS PERPENDICULAR TO SLAB EDGES	±1"
HORIZONTAL LOCATION OF PRESTRESSED TENDONS	±1/2" FOR MEMBER DEPTH = 24" ±1" FOR MEMBER DEPTH ≥24"
VERTICAL LOCATION (DRAPE) OF PRESTRESSED TENDONS	±1/4" FOR MEMBER DEPTH = 8" ±3/8" FOR MEMBER DEPTH 8" &L; D = 24" ±1/2" FOR MEMBER DEPTH ≥24"

THE ABOVE LIST OF PERMITTED TOLERANCES SHALL BE PROVIDED ON ALL REINFORCING STEEL PLACING DRAWINGS AND ON ALL POST-TENSIONED TENDON PLACING DRAWINGS. PLACING DRAWINGS THAT DO NOT PROVIDE THIS LIST OF TOLERANCES WILL BE REJECTED.

- FIELD BENDING OF REINFORCING STEEL IS NOT PERMITTED UNON
- WELDING OF REINFORCING STEEL OTHER THAN AS SPECIFIED IS PROHIBITED. WELDING OF REINFORCING BARS SHALL BE IN ACCORDANCE WITH AWS D1.4 OR D1.8
- HEADED STUDS AND DEFORMED BAR ANCHORS SHALL BE INSTALLED IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.
- SUPPORTS AND TIE WIRE FOR COATED REINFORCING SHALL BE PLASTIC PROTECTED.
- SUPPORTS AND THE WIRE FOR STAINLESS OR GALVANIZED REINFORCING SHALL BE STAINLESS OR GALVANIZED STEEL PROTECTED RESPECTIVELY. SUPPORTS AND TIE WIRE FOR UNCOATED REINFORCING SHALL BE PLASTIC PROTECTED.
- ALL WELDED WIRE REINFORCING SHALL BE LAP SPliced 2 PANELS (1" x 0 MIN).

- SPlicing:
 - SPICES IN REINFORCING STEEL SHALL BE MADE ONLY AT THOSE LOCATIONS WHERE SPICES ARE SHOWN ON THE STRUCTURAL DRAWINGS AND AT THOSE LOCATIONS WHERE SPICES HAVE BEEN DETAILED ON THE REINFORCING STEEL PLACING DRAWINGS THAT HAVE BEEN REVIEWED AND APPROVED BY THE STRUCTURAL ENGINEER. ALL SPICES SHALL BE CLASS B TENSION LAP SPICES UNON.
 - ALL MECHANICAL SPICE COUPLERS MAY BE USED INSTEAD OF TENSION LAP SPICES AT THE CONTRACTOR'S OPTION AT ANY LOCATION. MECHANICAL SPICE COUPLERS MUST BE USED WHERE SPlicing #14 AND LARGER BARS, INCLUDING WHERE SPlicing #14 AND LARGER BARS TO #11 AND SMALLER BARS. STAGGER MECHANICAL SPICES IN ADJACENT BARS 30" MINIMUM.
 - COMPRESSION LAP SPICES MAY BE USED ONLY AT THOSE LOCATIONS WHERE SUCH SPICES ARE SPECIFICALLY INDICATED. STAGGER SPICES WHERE REQUIRED TO PROVIDE 1 1/2" MINIMUM CLEAR SPACING BETWEEN REINFORCING STEEL AT SPICE LOCATIONS.
- ALL HOOKS SHALL BE STANDARD HOOKS OR STANDARD STIRRUP HOOKS UNON. STANDARD STIRRUP HOOKS SHALL HAVE CONTINUOUS BAR AT INSIDE CORNER OF HOOK.
- VERTICAL REINFORCING STEEL IN CONCRETE AND MASONRY WALLS WITH ONE LAYER OF REINFORCING BARS SHALL BE INSTALLED IN THE CENTER OF THE WALL UNON.
- STANDARD STIRRUP HOOKS FOR #3, #4, AND #5 BARS SHALL BE PROVIDED IN SLABS LESS THAN 9" THICK.
- DOWELS SHALL MATCH GRADE, SIZE, SPACING, AND QUANTITY OF LAPPED REINFORCING STEEL. EXTEND ALL DOWELS FOR FULL DEPTH OF SUPPORTING ELEMENT AND PROVIDE HOOKS UNON. DOWELS SHALL NOT BE POST-INSTALLED INTO FRESH CONCRETE.
- HEADED DEFORMED BARS MAY ONLY BE USED ON #11 AND SMALLER BARS. THREADED OR FORGED HEADS CAN BE USED AT THE FABRICATOR'S DISCRETION.
- REINFORCING STEEL PLACING DRAWINGS SHALL BE PREPARED IN ACCORDANCE WITH THE REQUIREMENTS OF ACI 315. THE PLACING DRAWINGS SHALL SHOW ALL INFORMATION NECESSARY TO FABRICATE AND PLACE THE REINFORCING STEEL.
- FIBER REINFORCING:
 - STRUCTURAL MACRO SYNTHETIC FIBER REINFORCING SHALL COMPLY WITH ASTM C1116, TYPE III AND ASTM D7508.
 - MACRO SYNTHETIC FIBERS SHALL BE "TUF-STAND 5F" FIBERS MANUFACTURED BY THE EULCO CHEMICAL COMPANY OR "STRIX 9040" FIBERS MANUFACTURED BY GCP.
 - PROVIDE 4 LBS OF MACRO FIBER REINFORCING PER CUBIC YARD OF CONCRETE WHERE FIBER REINFORCING IS INDICATED UNON.

- REINFORCING STEEL SPACINGS ARE CENTER-TO-CENTER DIMENSIONS UNON. REINFORCING STEEL SHOWN IN SECTION PERPENDICULAR TO THE CUT ARE CONTINUOUS UNON.
- THE SPACING OF ALL REINFORCING STEEL MUST BE COMPUTED BY THE REINFORCING STEEL DETAILER AND MUST BE INDICATED ON THE PLACING DRAWINGS. EXTENT ARROWS MUST BE USED TO CLEARLY INDICATE THE LOCATIONS WHERE GROUPS OF REINFORCING BARS ARE TO BE INSTALLED.
- A LIST OF ALL APPLICABLE REINFORCING STEEL PLACEMENT TOLERANCES SHALL BE INDICATED ON ALL REINFORCING STEEL PLACING DRAWINGS. PLACING DRAWINGS THAT DO NOT SHOW SUFFICIENT INFORMATION NEEDED TO PLACE THE REINFORCING STEEL WILL BE REJECTED.

CAST-IN-PLACE CONCRETE

- ALL CONCRETE WORK SHALL CONFORM TO THE REQUIREMENTS OF ACI 318, BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE, AND ACI 301, SPECIFICATIONS FOR STRUCTURAL CONCRETE UNON.
- CONCRETE MATERIALS SHALL CONFORM TO:

CEMENT	ASTM C150, TYPE I OR II
FLY ASH	ASTM C618, TYPE C OR F
SLAG CEMENT	ASTM C899
FINE AND COARSE AGGREGATE	ASTM C33
LIGHTWEIGHT AGGREGATE	ASTM C330
WATER	POTABLE
AIR-ENTRAINING ADMIXTURE	ASTM C260
WATER REDUCING ADMIXTURE	ASTM C494
- CONCRETE STRENGTHS SHALL CONFORM TO:

LOCATION	fc at 28 DAYS (PSI)	MAX PERMITTED W/C	EXPOSURE CLASS/ENR NOTE: UPDATE THIS SITE SPECIFIC CONDITIONS.]
ALL FOUNDATION CONCRETE UNON	3000	0.55	F0
TILT PANEL CON	7000	0.55	F1
SLAB-ON-GRADE UNON	3000	0.55	F0
UNLESS OTHERWISE NOTED	3000	0.55	F0

- ALL FOUNDATION ELEMENTS SHALL BE CENTERED UNDER WALLS, PIERS, OR COLUMNS UNON.
- PROVIDE TEMPLATES TO SET EMBEDDED ITEMS.
- INSTALLATION OF ELECTRICAL CABLE, CONDUIT, AND PIPING IN OR THROUGH CONCRETE COLUMNS AND WALLS IS PROHIBITED UNLESS APPROVED BY THE STRUCTURAL ENGINEER PRIOR TO INSTALLATION. INSTALLATION OF PIPING IN CAST-IN-PLACE CONCRETE IS PROHIBITED UNLESS APPROVED BY STRUCTURAL ENGINEER PRIOR TO INSTALLATION. DRAWINGS SHALL BE SUBMITTED FOR REVIEW SHOWING PROPOSED PLACEMENT OF ELECTRICAL CABLE AND CONDUIT IN SLABS, THOSE DRAWINGS SHALL SHOW SIZES AND DIMENSIONS OF ELECTRICAL CABLE AND CONDUIT.
- PROVIDE CONTINUOUS BENTONITE WATERSTOPS IN ALL CONSTRUCTION JOINTS IN BELOW GRADE CONCRETE CONSTRUCTION. COORDINATE WATERSTOPS WITH ARCHITECTURAL DRAWINGS.
- PROJECTING CORNERS OF BEAMS, WALLS, COLUMNS, ETC. SHALL BE FORMED WITH A 3/4" CHAMFER UNON ON ARCHITECTURAL DRAWINGS.
- SLOPE SLABS TO DRAINS. SEE ARCHITECTURAL AND MEP DRAWINGS FOR DRAIN LOCATIONS AND SLOPE REQUIREMENTS. SLAB THICKNESSES SHOWN ON DRAWINGS ARE MINIMUMS.
- CONTRACTOR SHALL SURVEY ALL CONCRETE WORK WITHIN 48 HOURS OF PLACING CONCRETE TO ENSURE PLACEMENT IS IN ACCORDANCE WITH PROJECT REQUIREMENTS.
- ALL FORMWORK, SHORING, AND RESHORING SHALL BE DESIGNED AND THE CONTRACTOR'S ENGINEER LICENSED IN THE PROJECT'S JURISDICTION. ALL SUBMISSIONS SHALL BE SIGNED AND SEALED.
- REINFORCING STEEL SHALL NOT BE DAMAGED WHEN DRILLING CONCRETE.
- ADHERE TO ACI 308R AND ACI 308R FOR HOT AND COLD WEATHER CONCRETE CONSTRUCTION.
- PROPOSED CONCRETE MIX DESIGNS SHALL BE PREPARED IN ACCORDANCE WITH ACI 318-19.
- THE PROPOSED MATERIALS AND MIX DESIGN SHALL BE FULLY DOCUMENTED AND REVIEWED BY THE TESTING AND INSPECTION AGENCY. RESPONSIBILITY FOR OBTAINING THE REQUIRED DESIGN STRENGTH IS THE CONTRACTOR'S. SUBMIT TEST DATA ON EACH PROPOSED MIX FOR REVIEW IN ACCORDANCE WITH THE APPLICABLE CODE. MIX DESIGNS SUBMITTED WITHOUT THE REQUIRED TEST DATA WILL BE RETURNED WITHOUT REVIEW.
- SEE ARCHITECTURAL DRAWINGS FOR DIMENSIONS, LOCATIONS, AND DETAILS OF ALL ARCHITECTURAL FEATURES IN THE CONCRETE. SEE ARCHITECTURAL DRAWINGS AND PROJECT SPECIFICATIONS FOR REQUIREMENTS FOR ALL CONCRETE FINISHES.

TILT-UP CONCRETE

- ALL TILT-UP CONCRETE WORK SHALL CONFORM TO THE REQUIREMENTS OF ACI 318, BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE, AND ACI 551, TILT-UP CONCRETE STRUCTURES UNON.
- GROUT SHALL CONFORM WITH ASTM C1107, GRADE A AND MANUFACTURER'S WRITTEN INSTRUCTIONS.
- TILT-UP CONCRETE PANELS SHALL ATTAIN THE FOLLOWING MINIMUM STRENGTHS:

PRIOR TO ERECTION OF PANELS	2500 PSI
COMPRESSIVE STRENGTH AT 28 DAYS	7000 PSI
MODULUS OF RUPTURE	375 PSI
- THE CONTRACTOR SHALL OBTAIN AN ANALYSIS OF THE ERECTION STRESSES OF ALL TILT-UP PANELS FROM AN ENGINEER LICENSED IN THE PROJECT'S JURISDICTION WHO IS FULLY RESPONSIBLE FOR THE SAFETY OF TEMPORARY BRACING.
- BRACES, STRUCTURAL PICKUP INSERTS, AND THEIR LOCATIONS, ETC. SHALL BE DESIGNED, MANUFACTURED, AND DETAILED BY THE LIFTING CONTRACTOR AND ARE SUBJECT TO REVIEW BY THE GENERAL CONTRACTOR PRIOR TO INSTALLATION.
- PROVIDE STRENGTHENING OF PANELS BY SUPERIMPOSED PANELS UNTIL THE STRUCTURE, INCLUDING THE POUR BACK STRIP AND ROOF DIAPHRAGM, IS FULLY INSTALLED, DETAILED, AND INSPECTED.
- THE CONTRACTOR SHALL REVIEW, CHECK, AND COORDINATE ALL PANEL DIMENSIONS WITH ARCHITECTURAL PLANS AND ELEVATIONS PRIOR TO CONSTRUCTION AND SHALL NOTIFY THE ARCHITECT OF ANY DISCREPANCIES.
- THE GENERAL CONTRACTOR SHALL VERIFY ALL DOOR AND WINDOW OPENING DIMENSIONS WITH MANUFACTURER PRIOR TO PLACING ANY CONCRETE.
- IN NO CASE SHALL THE BOND BREAKER RESTRICT THE PLACEMENT OF FINISH MATERIALS OR PAINT UPON TREATED SURFACE. BOND BREAKER SHALL BE APPLIED ON FORMED SURFACES ONLY.

- FILL ALL PITS, HOLES, AND POCKETS WITH GROUT AND RUB SMOOTH WITH BURLAP TO REMOVE ALL FINS AND RIDGES. SEE ARCHITECTURAL DRAWINGS FOR ADDITIONAL REQUIREMENTS.
- THE CONTRACTOR SHALL NOTIFY THE DESIGN PROFESSIONALS ONE WEEK PRIOR TO POURING ANY CONCRETE TO ENABLE OBSERVATION OF PANEL REINFORCING AND STRUCTURAL EMBED PLACEMENT.
- DECK ANGLE SPICES AND PANEL-TO-PANEL CONNECTIONS SHALL NOT BE WELDED PRIOR TO 28 DAYS AFTER THE PANELS HAVE BEEN CAST.
- ALL REQUIRED BRACING AND EMBEDS SHALL BE PLACED ON CHAIRS AND SECURED IN PLACE.
- PANEL LIFTING AND BRACING DESIGNS SHALL BE SUBMITTED FOR REVIEW AND APPROVAL PRIOR TO PLACING CONCRETE AS REQUIRED BY THE BUILDING OFFICIAL OR AUTHORITY HAVING JURISDICTION.
- SUBMIT SHOP DRAWINGS FOR FABRICATION AND PLACEMENT OF REINFORCING STEEL. INCLUDE SCHEDULES AND DIAGRAMS OF BENT BARS AND SHOW ARRANGEMENT OF REINFORCEMENT. STRUCTURAL ENGINEER'S REVIEW WILL BE FOR COMPLIANCE WITH DESIGN REQUIREMENTS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING DIMENSIONS AND QUANTITIES.
- SUBMIT SIGNED AND SEALED ENGINEERING ANALYSIS CALCULATIONS FOR HOISTING AND ERECTION.
- THE CONCRETE CONTRACTOR SHALL FURNISH CONCRETE MIX DESIGN SUBMITTAL FOR REVIEW.

MASONRY

- CMU CONSTRUCTION SHALL BE PERFORMED IN ACCORDANCE WITH TMS 402/602 "BUILDING CODE REQUIREMENTS FOR MASONRY STRUCTURES".
- MINIMUM 28-DAY COMPRESSIVE STRENGTHS FOR CMU CONSTRUCTION SHALL BE:

DESIGN ASSEMBLY STRENGTH, fm	2000 PSI
INDIVIDUAL CONCRETE MASONRY UNITS	2800 PSI
GROUT	2000 PSI
- CMU MATERIALS SHALL CONFORM TO THE FOLLOWING STANDARDS:

CONCRETE MASONRY UNITS	ASTM C90, NORMAL-WEIGHT UNON
MORTAR	ASTM C270, TYPE S UNON ASTM C270, TYPE N (NON-STRUCTURAL MASONRY) ASTM C270, TYPE M (WHERE IN CONTACT WITH SOIL)
GROUT	ASTM C476
JOINT REINFORCING	ASTM A82
- PROVIDE MINIMUM 1" GROUT BETWEEN MAIN REINFORCING AND/OR BOLTS AND CMU UNIT FACE. VERTICAL REINFORCEMENT SHALL BE CENTERED IN WALL UNON. VERTICAL REINFORCING BARS SHALL BE SECURELY HELD IN POSITION BY WIRE TIES OR OTHER APPROVED MEANS TO ENSURE DESIGN LOCATION AND LAP. PLACE BARS AND LAP PRIOR TO GROUTING.
- HORIZONTAL BOND BEAM AND VERTICAL REINFORCING SHALL BE CONTINUOUS UNON.
- CELLS SHALL BE IN VERTICAL ALIGNMENT. DOWEL SIZE AND LOCATION IN FOOTINGS SHALL BE SET TO ALIGN WITH VERTICAL REINFORCING STEEL WITHIN 6" TOLERANCE. VERTICAL REINFORCEMENT TO RUN FULL HEIGHT OF WALL UNON.
- ALL CELLS CONTAINING REINFORCING SHALL BE FILLED SOLD WITH GROUT.
- GROUT SOLD ALL COURSES BELOW GRADE.
- LIFTS OF GROUT SHALL BE KEPT 1 1/2" INTO THE PREVIOUS COURSE BELOW.
- HORIZONTAL BAR REINFORCEMENT SHALL BE FULLY EMBEDDED IN GROUT IN AN UNINTERRUPTED POUR.
- ALL BOND BEAMS TO HAVE A MINIMUM 8" DEPTH. PROVIDE TALLER BOND BEAMS AS NEEDED FOR CURSING OR TO AVOID INTERFERENCE BETWEEN REINFORCING STEEL AND POST-INSTALLED ANCHORS. CUT AND STEP BOND BEAM AS REQUIRED.
- PROVIDE HORIZONTAL TIES WHERE CMU ABUTS CONCRETE.
- COORDINATE ANY UNIDENTIFIED PIPE OR DUCT PASSING THROUGH STRUCTURAL CMU WALLS WITH TYPICAL DETAILS UNON. ADDITIONAL LIMITS MAY BE REQUIRED. COORDINATE WITH STRUCTURAL ENGINEER FOR REQUIRED UNTEL SIZE BEFORE CONSTRUCTION OF CMU WALL.
- PIPE AND CONDUIT SHALL NOT BE PERMITTED IN CELLS WITH VERTICAL REINFORCEMENT. CONDUIT TO BE LOCATED TO AVOID ALL HORIZONTAL REINFORCEMENT. NO ALUMINUM UNINTERRUPTED JOINTS.
- SEE ARCHITECTURAL DRAWINGS FOR SURFACE AND HEIGHT OF UNITS, LAYING PATTERN, AND JOINT TYPE. ALL BLOCK SHALL BE LAID IN RUNNING BOND UNON.
- SEE ARCHITECTURAL DRAWINGS FOR THE SUBMITTAL OF ALL ASSEMBLY COMPONENTS.
- SEE ARCHITECTURAL DRAWINGS FOR LOCATIONS AND DIMENSIONS OF ALL NON-LOAD BEARING CMU WALLS.
- MINIMUM WALL VERTICAL REINFORCING SHALL BE #5 BAR FULL HEIGHT IN CENTER OF GROUDED CELL, AT WALL INTERSECTIONS, CORNERS, WALL ENDS, JAMES AT WALL OPENINGS, EACH SIDE OF CONTROL JOINTS, AND AT INTERVALS NOT TO EXCEED 48" UNON.
- MINIMUM HORIZONTAL REINFORCING SHALL BE (2#5 BARS IN CENTER OF MINIMUM 16" DEEP CONTINUOUS GROUDED BOND

6. DELEGATED STRUCTURAL STEEL CONNECTIONS:

- a. ALL STRUCTURAL STEEL CONNECTIONS (OTHER THAN THOSE CONNECTIONS IDENTIFIED AS "FULLY DESIGNED") AND MEMBER REINFORCEMENT AT THE CONNECTIONS SHALL BE DESIGNED BY A LICENSED PROFESSIONAL ENGINEER WORKING FOR THE FABRICATOR IN ACCORDANCE WITH AISI 363, OPTION 3. THAT ENGINEER SHALL BE LICENSED IN THE JURISDICTION IN WHICH THE PROJECT IS LOCATED.
- b. CONNECTIONS AND MEMBER REINFORCEMENT AT THE CONNECTIONS SHALL BE DESIGNED TO SUPPORT THE REACTIONS SPECIFIED OR INDICATED ON THE DRAWINGS.
- c. WHERE SPECIFIC CONNECTION TYPES, DETAILS, CONFIGURATIONS, OR CONNECTION DESIGN LIMITATIONS ARE INDICATED, THE CONNECTIONS SHALL BE DESIGNED AND DETAILED IN ACCORDANCE WITH THOSE REQUIREMENTS. WHERE SPECIFIC SIZES, QUANTITIES AND DIMENSIONS OF BOLTS, WELDS, AND PLATES ARE INDICATED, THOSE ARE MINIMUM PERMITTED SIZES, QUANTITIES, AND DIMENSIONS. THE CONNECTION STRENGTH OF ALL CONNECTIONS SHALL BE DETERMINED BY THE FABRICATOR'S CONNECTION DESIGN ENGINEER, AND THE CONNECTION DETAIL SHALL BE MODIFIED IF REQUIRED TO PROVIDE THE REQUIRED STRENGTH.
- d. CONNECTION DESIGN RESPONSIBILITY SHALL INCLUDE CALCULATION OF MEMBER STRENGTH AT CONNECTIONS CONSIDERING THE EFFECTS OF COPES, BOLT HOLES, CONNECTION ECCENTRICITY, AND CONNECTION GEOMETRY AND SHALL CONSIDER ALL LIMIT STATES INCLUDING BUT NOT LIMITED TO REVIEW OF GROSS SHEAR, NET SHEAR, BLOCK SHEAR, WEB TEAR-OUT, BEARING, FLEXURAL STRENGTH, LOCAL BUCKLING, TENSILE STRENGTH THROUGH BOTH THE NET AND GROSS SECTIONS, COMPRESSIVE STRENGTH, AND DUCTILITY. DESIGN OF CONNECTIONS SHALL BE IN ACCORDANCE WITH RECOGNIZED PUBLISHED METHODS SUCH AS THOSE PUBLISHED IN THE AISI "ENGINEERING JOURNAL", THE AISI 15TH EDITION STEEL CONSTRUCTION MANUAL, AND THE AISI STEEL CONSTRUCTION MANUAL DESIGN EXAMPLES. CONNECTION DESIGN SHALL CONSIDER TRANSFER OF STRESSES THROUGH CONNECTED AND CONNECTING MEMBERS. CONNECTION DESIGN RESPONSIBILITY SHALL INCLUDE ANALYSIS AND DESIGN OF PLATES, BRACKETS, STRUTS, STIFFENER PLATES, GUSSET PLATES, AND OTHER ELEMENTS TO TRANSFER FORCES INTO AND BETWEEN MEMBERS. CALCULATIONS SHALL SHOW FULL DETAILED CODE EQUATIONS AND METHODOLOGY FOR A REPRESENTATIVE SAMPLE OF EACH CONNECTION TYPE.
- e. AT ENGINEER OF RECORDS REQUEST, MANUAL CALCULATIONS SHALL BE SUBMITTED FOR EACH CONNECTION TYPE TO VERIFY THAT CONNECTIONS DESIGNED USING COMPUTER SOFTWARE CONSIDER ALL LIMIT STATES AND PRODUCE RESULTS IDENTICAL TO THE MANUAL CALCULATIONS.
- f. ALL BOLTED BEAM SHEAR CONNECTIONS SHALL HAVE A MINIMUM OF 2 BOLTS. ALL BEAM SHEAR CONNECTIONS SHALL BE DETAILED SO THAT THE LENGTH OF THE CONNECTION IS GREATER THAN OR EQUAL TO 50% OF THE "T" DIMENSION OF THE SUPPORTED MEMBER.
- g. BEAM SHEAR CONNECTIONS SHALL BE DESIGNED AS SIMPLE SHEAR CONNECTIONS PER AISI 360 PART 10 TO SUPPORT LRFD REACTIONS, EXCEPT WHERE INDICATED AS FULLY DESIGNED ON THE CONTRACT DOCUMENTS. CONNECTIONS SHALL BE DESIGNED TO SUPPORT A MINIMUM OF 15 KIPS, WHERE LOADS ARE NOT PROVIDED ON CONTRACT DOCUMENTS. CONNECTIONS SHALL SUPPORT 60% OF THE TOTAL UNIFORM LOAD CAPACITY FOR NON-COMPOSITE BEAMS. FOR COMPOSITE BEAMS, CONNECTIONS SHALL SUPPORT 80% OF THE TOTAL UNIFORM LOAD CAPACITY.
- h. MOMENT CONNECTIONS SHALL BE DESIGNED TO SUPPORT THE LRFD MOMENTS INDICATED ON THE DRAWINGS. WHERE NO MOMENT REACTION IS INDICATED, THE CONNECTION SHALL BE DESIGNED TO SUPPORT 15% OF THE FULL PLASTIC MOMENT STRENGTH OF THE MEMBER. MOMENT CONNECTIONS SHALL BE DESIGNED AS FULLY RESTRAINED MOMENT CONNECTIONS.
7. WELD LENGTHS INDICATED ON THE DRAWINGS ARE THE NET EFFECTIVE LENGTH REQUIRED. WHERE WELD LENGTH IS NOT SPECIFIED, PROVIDE WELD ALONG ENTIRE INTERSECTION OF THE JOINED PARTS. WHERE FILLET WELD SYMBOL IS GIVEN WITHOUT INDICATION OF SIZE, USE MINIMUM WELD SIZE AS SPECIFIED IN AISI 360, TABLE J2.4.
8. SHOP CONNECTIONS SHALL BE WELDED UN. WELDS INDICATED WITH A SHOP WELD SYMBOL MAY BE MADE IN THE FIELD WITH THE APPROVAL OF THE STRUCTURAL ENGINEER. LOCATIONS OF ALL FIELD WELDS SHALL BE CLEARLY SHOWN ON THE SHOP DRAWINGS.
9. ALL WELDING OF STRUCTURAL STEEL SHALL BE PERFORMED BY CERTIFIED WELDERS WITH EXPERIENCE AND CERTIFICATION IN THE TYPES OF WELDING INDICATED. WELDERS SHALL HAVE BEEN RECENTLY QUALIFIED AS PRESCRIBED IN "QUALIFICATION PROCEDURES" OF THE AMERICAN WELDING SOCIETY (AWS).
10. HEADED STUD ANCHORS (HSA) SHALL BE INSTALLED IN ACCORDANCE WITH AWS D1.1 AND SHALL BE AUTOMATICALLY END WELDED IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS IN SUCH A MANNER AS TO PROVIDE COMPLETE FUSION BETWEEN THE END OF THE HSA AND THE STEEL SHAPE. THERE SHOULD BE NO POROSITY OR EVIDENCE OF LACK OF FUSION BETWEEN THE WELDED END OF THE HSA AND THE STEEL SHAPE. THE HSA SHALL DECREASE IN LENGTH DURING WELDING. APPROXIMATELY 1/8" FOR 5/8"Ø AND SMALLER AND 3/16" FOR LARGER THAN 5/8"Ø.
11. MINIMUM HORIZONTAL CONCRETE COVER FOR HSA TO BE 2".
12. BEAMS SHALL BE CAMBERED UPWARD WHERE SHOWN ON THE DRAWINGS. WHERE NO UPWARD CAMBER IS INDICATED, ANY MILL CAMBER SHALL BE DETAILED UPWARD IN THE BEAMS.
13. SPLICING OF STEEL MEMBERS WHERE NOT DETAILED ON THE DRAWINGS IS PROHIBITED WITHOUT THE PRIOR APPROVAL OF THE STRUCTURAL ENGINEER AS TO LOCATION, TYPE OF SPLICE, AND CONNECTION TO BE MADE.
14. PROVIDE ONE SHOP COAT OF PAINT ON ALL STRUCTURAL STEEL NOT COVERED WITH CONCRETE, FIREPROOFING, MASONRY, OR AT CONTACT SURFACES AT HIGH STRENGTH BOLTS.
15. ALL STEEL EXPOSED TO WEATHER OR AS NOTED ON PLAN SHALL BE HOT-DIP GALVANIZED AFTER FABRICATION IN ACCORDANCE WITH ASTM A123 G60. ABRADED AREAS TO BE TOUCHED UP WITH COLD GALVANIZING COMPOUND IN ACCORDANCE WITH ASTM A790.
16. ALL GALVANIZED HOLLOW SECTIONS SHALL HAVE WELDED CAP PLATES TO SEAL EXPOSED ENDS.
17. CUTS, HOLES, OPENINGS, ETC. REQUIRED IN STRUCTURAL STEEL MEMBERS FOR THE WORK OF OTHER TRADES SHALL BE SHOWN ON THE SHOP DRAWINGS. BURNING OR TORCHING OF HOLES, CUTS, AND OTHER FIELD MODIFICATIONS SHALL NOT BE ALLOWED, EXCEPT BY WRITTEN AUTHORIZATION FROM THE STRUCTURAL ENGINEER.
18. SEE ARCHITECTURAL, MECHANICAL, ELECTRICAL, ETC. FOR MISCELLANEOUS STEEL NOT DETAILED SPECIFICALLY ON THE STRUCTURAL DRAWINGS.
19. GROUT FOR BASE AND BEARING PLATES SHALL BE A NON-SHRINK, NON-METALLIC PRODUCT. MINIMUM COMPRESSIVE STRENGTH AT 28 DAYS SHALL BE 7000 PSI. INSTALL GROUT PRIOR TO APPLYING SIGNIFICANT LOADING TO MEMBER.
20. THE STRUCTURAL STEEL FABRICATOR SHALL FURNISH SHOP DRAWINGS OF ALL STRUCTURAL STEEL FOR REVIEW AND APPROVAL BEFORE FABRICATION.
21. ALL WELDING ELECTRODES SHALL BE E70XX UN. WELDING ELECTRODES FOR ASTM A913, GR65 MEMBERS AND THEIR CONNECTIONS SHALL BE E80XX.

STEEL JOISTS

1. DESIGN, FABRICATION, AND ERECTION SHALL BE IN ACCORDANCE WITH THE STEEL JOIST INSTITUTE (SJI) SPECIFICATION BY A MEMBER OF THE SJI, APPROVED FOR THE TYPE OF JOIST BEING USED.
2. ATTACH STEEL JOIST TO SUPPORT AS FOLLOWS:

JOIST TYPE/SERIES	DETAILS WITH WELD INFORMATION		DETAILS WITH BOLT INFORMATION		MINIMUM END BEARING (IN)	
	FILLET WELD SIZE	WELD LENGTH (IN)	BOLT DIAMETER (IN)	BOLT MATERIAL	STEEL	MASONRY
K	1/8	2 1/2	1/2	A307	2 1/2	4
LH/DLH 02-06	3/16	2 1/2	3/4	A307	2 1/2	6
LH/DLH 07-17	1/4	2 1/2	3/4	A307	4	6
LH/DLH 18-25	1/4	4	3/4	A325	6	6
JOIST GIRDER	1/4	4	3/4	A325	6	6

WHERE WELDS OR BOLTS ARE INDICATED, WELD/BOLT TO BE INSTALLED ON BOTH SIDES OF JOIST SEAT UN.

3. DESIGN JOIST SEAT FOR 1500 LBS ROLLOVER LOAD FOR K-SERIES JOISTS ONLY.
4. ALL ROOF JOISTS SHALL BE DESIGNED FOR A 65 PSF NET WIND UPLIFT (LRFD).
5. SPECIAL JOIST AND JOIST GIRDER DEFLECTION REQUIREMENTS:
- a. ROOF JOISTS: LIVE LOAD = L360 & TOTAL LOAD = L240
- b. FLOOR JOISTS: LIVE LOAD = L480 & TOTAL LOAD = L360
6. PROVIDE SIGNED AND SEALED SHOP DRAWINGS AND CALCULATIONS FOR SPECIAL JOIST AND JOIST GIRDER DESIGNS. JOIST DESIGNER SHALL UTILIZE LOADINGS INDICATED ON THE STRUCTURAL DRAWINGS.
7. PROVIDE BRIDGING PER SJI SPECIFICATIONS. DESIGN AND PROVIDE UPLIFT BRIDGING TO WITHSTAND A NET UPLIFT PRESSURE AS INDICATED ABOVE. WHERE BRIDGING INTERFERES WITH MECHANICAL OR OTHER TRADE INSTALLATIONS, THE JOIST MANUFACTURER SHALL PROVIDE DIRECTION FOR REMOVAL AND REPLACEMENT OF ANY BRIDGING.
8. HANGING OF MISCELLANEOUS ITEMS IS NOT PERMITTED FROM BRIDGING / BRACING.
9. PROVIDE ANCHORS AT EACH END OF EACH ROW OF BRIDGING TOP AND BOTTOM CHORDS EXCEPT AT EXPANSION JOINTS.
10. ALL JOIST HEADERS AND ACCESSORIES SHALL BE DESIGNED AND FURNISHED BY THE JOIST FABRICATOR.
11. STEEL JOISTS SHALL BE TOP CHORD BEARING UN.
12. THE JOIST FABRICATOR SHALL FURNISH SHOP DRAWINGS OF ALL BAR JOIST MATERIAL AND ACCESSORIES FOR REVIEW AND APPROVAL BEFORE FABRICATION.
13. PROVIDE SLOPED JOIST SEATS AS REQUIRED TO MEET ROOF SLOPE REQUIREMENTS. COORDINATE WITH ARCHITECTURAL DRAWINGS.

STEEL DECK

1. MATERIAL, DETAILING, DESIGN, MANUFACTURE, AND ERECTION OF STEEL DECKS SHALL BE IN ACCORDANCE WITH THE STEEL DECK INSTITUTE (SDI) SPECIFICATION.
2. DECK SIZE AND GAUGE INDICATED ON THE DRAWINGS ARE BASED ON THE FOLLOWING:
- a. CURRENT VERSION OF VULCRAFT VERO CATALOG FOR GRAVITY DESIGN LOADS
- b. SDI DIAPHRAGM DESIGN MANUAL 4 FOR DIAPHRAGM LOADS
3. PROVIDE MINIMUM DECK BEARING AND LAP LENGTHS PER MANUFACTURER'S RECOMMENDATIONS.
4. FOR PENETRATIONS LESS THAN OR EQUAL TO 12"Ø OR 12"x12", FRAMING OF OPENINGS FOR OTHER TRADES SHALL BE THE RESPONSIBILITY OF THE TRADES INSTALLING. HOLES LOCATED AND DIMENSIONED ON THE DRAWINGS SHALL BE THE RESPONSIBILITY OF THE DECK ERECTOR. SEE STRUCTURAL FRAMING DETAILS FOR ANY OPENING EXCEEDING LIMITS NOTED.
5. SUBMIT SHOP DRAWINGS SHOWING DECKING LAYOUT, DECK GAUGE, DECK DIRECTION, FASTENERS, AND FASTENING PATTERN FOR REVIEW AND APPROVAL.
6. FURNISH DECKING IN MINIMUM LENGTHS TO ACHIEVE 3-SPAN CONDITION UN.
7. ROOF DECK:
- a. ALL ROOF DECK SHALL BE GALVANIZED TO CONFORM TO ASTM A653 WITH A MINIMUM COATING OF G60.
- b. ALL ROOF DECK SHALL BE PRIME PAINTED GRAY TO CONFORM TO ASTM A1008, GRADE C.
- c. DO NOT EXCEED 25 LBS PER HANGER AND A MINIMUM SPACING OF 2'-0" ON CENTER WHEN ATTACHING TO ROOF DECK. THIS 25 LBS LOAD AND 2'-0" SPACING INCLUDE ADJACENT MECHANICAL, ELECTRICAL, AND ARCHITECTURAL ITEMS HANGING FROM THE DECK. IF THE HANGER RESTRICTIONS CANNOT BE ACHIEVED, SUPPLEMENTAL FRAMING SUPPORTED OFF STEEL FRAMING WILL NEED TO BE ADDED. THE GENERAL CONTRACTOR IS RESPONSIBLE FOR COORDINATING LOCATION AND WEIGHT OF ALL THE ELEMENTS BEING HUNG WITH STRUCTURAL ENGINEER UN.
- d. DECK MANUFACTURER SHALL FURNISH ALL RIDGE AND VALLEY PLATES, SUMP PANS, DRAIN PLATES, AND OTHER ACCESSORIES REQUIRED FOR A COMPLETE INSTALLATION.

COLD-FORMED STEEL (CFS) DELEGATED

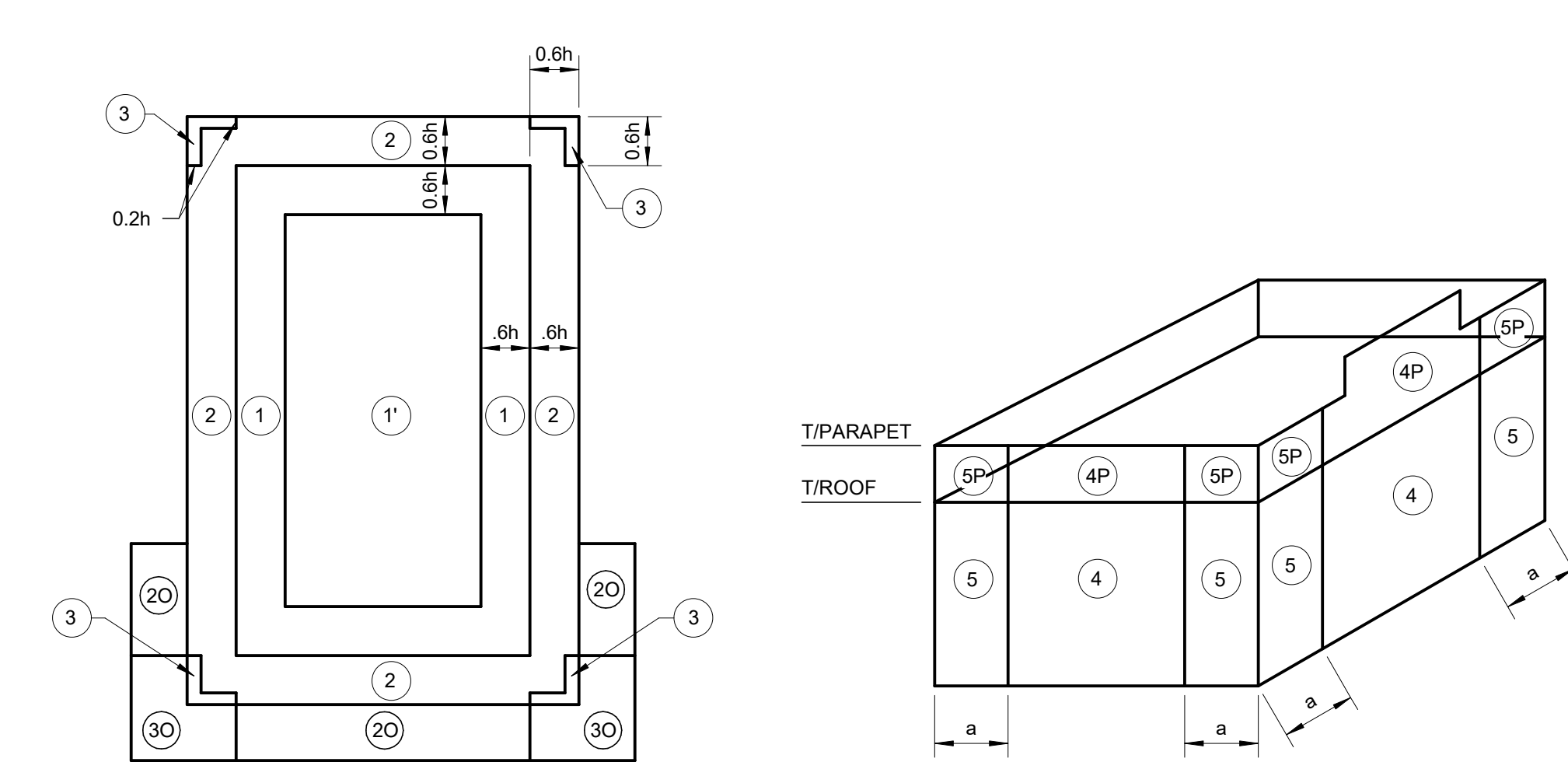
1. ALL COLD-FORMED STEEL FRAMING AND CONNECTIONS SHALL CONFORM TO THE AISI SPECIFICATION FOR THE DESIGN OF COLD-FORMED STRUCTURAL METALS, AISI S100.
2. THE STRUCTURAL DRAWINGS DO NOT REFLECT THE ENTIRE SCOPE OF WORK REQUIRED FOR COLD-FORMED STEEL FRAMING AND CONNECTIONS. COLD-FORMED STEEL FRAMING SHALL BE PROVIDED FOR AND COORDINATED WITH ARCHITECTURAL, MEP, AND OTHER DRAWINGS.
3. COLD-FORMED STEEL FRAMING AND CONNECTIONS INDICATED OR REFERENCED IN THE CONTRACT DOCUMENTS ARE FOR PURPOSES OF CONVEYING DESIGN INTENT ONLY. THE COMPLETE DESIGN OF COLD-FORMED STEEL SYSTEMS THAT SUPPORT GRAVITY OR LATERAL LOADS SHALL BE THE RESPONSIBILITY OF THE COLD-FORMED STEEL SUBCONTRACTOR AND THEIR STRUCTURAL ENGINEER. THE DESIGN OF COLD-FORMED STEEL SYSTEMS SHALL CONFORM TO THE GOVERNING BUILDING CODE AND REGULATIONS, AS WELL AS ANY SPECIAL CONDITIONS AND REQUIREMENTS AS INDICATED IN THE CONTRACT DOCUMENTS.
4. STEEL STUD MANUFACTURERS ASSOCIATION (SSMA) MEMBER DESIGNATIONS ARE SPECIFIED ON THE CONTRACT DOCUMENTS UN. WHERE SPECIFIC MANUFACTURERS ARE SPECIFIED AND PROPRIETARY FRAMING DESIGNATIONS INDICATED, FRAMING BY OTHER MANUFACTURERS MAY BE USED PROVIDED THOSE FRAMING MEMBERS HAVE DIMENSIONS EQUIVALENT TO THE SPECIFIED FRAMING AND ENGINEERING PRIORITIES EQUIVALENT TO OR GREATER THAN THE SPECIFIED FRAMING. SUCH PROPOSED SUBSTITUTIONS ARE PERMITTED ONLY IF APPROVED IN WRITING BY THE DESIGN PROFESSIONALS.
5. STRUCTURAL COLD-FORMED STEEL IS DEFINED AS THE FOLLOWING:
- a. ANY COLD-FORMED STEEL THICKER THAN 20GA (33 MIL)
- b. ANY EXTERIOR COLD-FORMED FRAMING AND CONNECTIONS
- c. ANY LOAD BEARING MEMBER
- d. ANY MEMBER CALLED OUT AND SPECIFIED IN THE STRUCTURAL DRAWINGS
- e. ALL OTHER COLD-FORMED STEEL IS NON-STRUCTURAL AND NOT A PART OF THE STRUCTURAL PACKAGE
6. STRUCTURAL COLD-FORMED STEEL (ROLLED SECTIONS, CONNECTION MATERIAL, AND STIFFENER PLATES) SHALL CONFORM TO THE FOLLOWING STANDARDS:
- | | | |
|-----------------------------|------------------|-----------|
| 16GA (43 MIL) AND THINNER | ASTM A653, GR 33 | Fy=33 KSI |
| 16GA (54 MIL) AND THICKER | ASTM A653, GR 50 | Fy=50 KSI |
| CONNECTION MATERIAL > 3/16" | ASTM A36 | Fy=36 KSI |
| HOT-DIP COATING | ASTM A924, G60 | |
| ELECTRO-PLATE COATING | ASTM A591 | |
| ALUMINUM-ZINC COATING | ASTM A792, GR 40 | |
| ELECTRODES FOR ARC WELDING | AWS 5.1 E60XX | |
7. WIND LOADS PERPENDICULAR TO THE PLANE OF EXTERIOR WALLS SHALL BE COMPUTED BASED UPON THE COMPONENT AND CLADDING WIND PRESSURES INDICATED IN THE GENERAL NOTES.
8. DESIGN SHALL INCLUDE DESIGN AND DETAILING OF FRAMING, BRIDGING, TEMPORARY AND PERMANENT BRACING, AND ALL FRAMING CONNECTIONS.
9. COLD-FORMED STEEL COMPONENTS SHALL BE CUT SQUARELY FOR ATTACHMENT TO PERPENDICULAR MEMBERS OR AS REQUIRED FOR A FULL ANGULAR FIT AGAINST ABUTTING MEMBERS. MEMBERS SHALL BE SECURED IN PLACE UNTIL PROPERLY ATTACHED.
10. SPLICING OF COLD-FORMED MEMBERS IS NOT PERMITTED.
11. CUTOUTS, HOLES, OR NOTCHES ARE NOT PERMITTED IN COLD-FORMED STEEL, ROOF AND FLOOR JOISTS, HEADERS, OR BEAMS WITHOUT PRIOR WRITTEN APPROVAL OF EITHER THE STRUCTURAL ENGINEER OR THE COLD-FORMED STEEL ENGINEER.
12. CUTTING OF COLD-FORMED STEEL MEMBERS SHALL BE ACCOMPLISHED WITH A SAW OR SHEARS. TORCH CUTTING OF SUCH MEMBERS IS NOT PERMITTED. THE CUTTING OF ANY LOAD BEARING MEMBER IS PROHIBITED.
13. HOLES FIELD CUT THROUGH COLD-FORMED STUD FRAMING SHALL BE MADE WITHIN THE LIMITATIONS OF THE PRODUCT AND THE PRODUCT DESIGN. HOLES SHALL BE REINFORCED AS RECOMMENDED BY THE MANUFACTURER.
14. ALL WELDS SHALL COMPLY WITH THE REQUIREMENTS OF THE NORTH AMERICAN SPECIFICATION FOR THE DESIGN OF COLD-FORMED STEEL STRUCTURAL MEMBERS, AISI S100, AND THE STRUCTURAL WELDING CODE - SHEET STEEL, AWS D1.3.
15. CONNECTIONS SHALL BE MADE BY WELDS, SCREWS, BOLTS, OR OTHER APPROVED FASTENING DEVICES OR METHODS PROVIDING POSITIVE ATTACHMENT AND RESISTANCE TO LOOSENING. FASTENERS SHALL BE MATERIAL COMPATIBLE WITH THE COLD-FORMED STEEL.
16. LIMIT HORIZONTAL COLD-FORMED STUD OUT-OF-PLANE DEFLECTIONS DUE TO WIND LOADS TO THE FOLLOWING:
- a. STUDS BACKING UP BRICK, MASONRY, AND STONE: L/600 OR 0.3" MAX
- b. STUDS BACKING UP ALL OTHER FACADE MATERIALS: L/360 UN
17. TEMPORARY BRACING SHALL BE PROVIDED WHERE REQUIRED TO ENSURE ALIGNMENT UNTIL WALL PANELS ARE INSTALLED AND CONSTRUCTION IS COMPLETED.
18. CONSTRUCTION SHALL NOT BEGIN UNTIL SHOP DRAWINGS AND CALCULATIONS HAVE BEEN REVIEWED BY THE DESIGN PROFESSIONALS. ALL COLD-FORMED STEEL FRAMING AND CONNECTIONS INCLUDING CONNECTIONS TO THE SUPPORTING STRUCTURE SHALL BE DESIGNED BY THE COLD-FORMED STEEL FRAMING CONTRACTORS ENGINEER LICENSED IN THE PROJECT'S JURISDICTION. ALL SUBMITTALS, INCLUDING DESIGN CALCULATIONS AND SHOP DRAWINGS, SHALL BE SIGNED AND SEALED BY THAT ENGINEER.

POST-INSTALLED ANCHORS

1. BASIS OF DESIGN ANCHORS:
- | INSTALLATION CONDITION | ANCHOR TYPE |
|--|---|
| EXPANSION ANCHORS INTO CONCRETE | SIMPSON STRONG-BOLT 2 (ESR-3037) |
| SCREW ANCHORS > 1/4"Ø INTO CONCRETE | SIMPSON TITEN HD (ESR-2713) |
| | SIMPSON SET-3G w/ GR55 THREADED ROD (ESR-4057) |
| ADHESIVE ANCHORS INTO CONCRETE, NEW AND EXISTING | FOR ALL ADHESIVE ANCHORS, HOLES SHALL BE HAMMER DRILLED AND HOLES MAY BE DRY OR WATER SATURATED |
| | SIMPSON STRONG-BOLT 2 (IAPMO UES ESR-240) |
| SCREW ANCHORS > 1/4"Ø INTO GROUTED CMU | SIMPSON TITEN HD (ESR-1056) |
| SCREW ANCHORS > 1/4"Ø INTO CONCRETE OR GROUTED CMU | SIMPSON TITEN TURBO (CONCRETE: IAPMO UES ESR-172) (MASONRY: IAPMO UES ER-716) |
| ADHESIVE ANCHORS IN GROUTED CMU OR SOLID BRICK | SIMPSON SET-3G w/ GR55 THREADED ROD (ESR-4844) |
| ADHESIVE ANCHORS INTO HOLLOW CMU, BRICK OR MULTI-WYTHE BRICK WALLS | SIMPSON SET-3G w/ GR55 THREADED ROD (ESR-4844) |
| POWDER-ACTUATED FASTENERS (PAFs) IN CONCRETE | SIMPSON POPA (ESR-2138) |

BAR SIZE	CONCRETE COMPRESSIVE STRENGTH				
	3000 PSI	4000 PSI	5000 PSI	6000 PSI	7000 PSI
#3	22"	19"	17"	15"	14"
#4	29"	25"	22"	20"	19"
#5	36"	31"	28"	26"	24"
#6	43"	38"	34"	31"	28"
#7	62"	54"	49"	44"	41"
#8	70"	62"	56"	51"	47"
#9	76"	70"	62"	57"	53"
#10	84"	78"	70"	63"	59"
#11	96"	87"	76"	70"	64"

NOTES:
1. THE SPICE LENGTH BY THE FOLLOWING (INCREASED LENGTHS ARE CUMULATIVE):
1. HORIZONTAL TOP BARS WITH GREATER THAN 12" OF CONCRETE BELOW +30%
2. BAR SPACING LESS THAN 2 BAR DIAMETERS +50%
3. EPOXY COATED BARS WHEN CLEAR COVER IS LESS THAN 3 BAR DIAMETERS OR CLEAR SPACING IS LESS THAN 6 BAR DIAMETERS +50%
OTHER EPOXY COATED BARS +20%



ROOF PLAN (GENERIC BUILDING SHOWN)

WALLS (GENERIC BUILDING SHOWN)

COMPONENT & CLADDING DESIGN WIND PRESSURES (PSF)							
ROOF							
ZONE	10 SF	20 SF	50 SF	100 SF	200 SF	350 SF	500 SF
NEGATIVE 1	-55.2	-51.6	-46.8	-43.1	-39.5	-36.5	-34.7
NEGATIVE 1'	-31.7	-31.7	-31.7	-31.7	-27.3	-23.7	-21.5
NEGATIVE 2	-72.8	-68.1	-62.0	-57.3	-52.6	-48.8	-46.4
NEGATIVE 3	-99.3	-89.9	-77.5	-68.1	-58.8	-51.2	-46.4
POSITIVE ALL ZONES	+16.0	+16.0	+16.0	+16.0	+16.0	+16.0	+16.0
OVERHANG 1 & 1'	-49.9	-49.0	-47.9	-39.4	-33.3		-29.4
OVERHANG 2	-67.5	-61.3	-53.0	-46.8	-40.6	-35.5	-32.3
OVERHANG 3	-94.0	-83.0	-68.6	-57.7	-46.7	-37.9	-32.3
PARAPET							
ZONE	10 SF	20 SF	50 SF	100 SF	200 SF	500 SF	
CASE A:	ZONE 2	+100.2	+93.7	+85.1	+78.6	+72.1	+63.5
	ZONE 3	+128.3	+116.9	+101.7	+90.2	+78.7	+63.5
CASE B:	INTERIOR	-59.2	-56.2	-52.2	-49.2	-46.2	-42.3
	CORNER	-67.6	-63.1	-57.2	-52.7	-48.2	-42.3
WALL							
ZONE	10 SF	100 SF	200 SF	500 SF			
POSITIVE ZONES 4 & 5	+31.7	+27.0	+25.6	+23.8			
NEGATIVE 4	-34.4	-29.7	-28.3	-26.4			
NEGATIVE 5	-42.3	-33.0	-30.1	-26.4			

NOTES:
1) PRESSURES ARE FOR THE SQUARE FOOT (SF) TRIBUTARY AREA SHOWN. FOR OTHER TRIBUTARY AREAS, LINEARLY INTERPOLATE BETWEEN VALUES SHOWN ABOVE.
2) POSITIVE PRESSURES ACT TOWARD THE BUILDING. NEGATIVE PRESSURES ACT AWAY FROM THE BUILDING.
3) SEE DIAGRAMS FOR LOCATION OF ZONES.
4) PRESSURES SHOWN ARE ULTIMATE PRESSURES. MULTIPLY VALUES BY 0.6 FOR NOMINAL PRESSURES.

STRUCTURAL ABBREVIATIONS			
#	NUMBER OR POUND	GA	GAGE
Ø	ROUND OR DIAMETER	GB	GRAVITIZED
□	SQUARE	GC	GRADE BEAM
Δ	AND	GT	GENERAL CONTRACTOR
@	AT	GR	GIRDER TRUSS
ALUM	ALUMINUM	HGT	HEIGHT
AR	ANCHOR ROD	HORIZ	HORIZONTAL
ARCH	ARCHITECTURE	HSA	HEADED STUD ANCHOR
ASSY	ASSEMBLY	HT	HIP TRUSS
B/	BOTTOM OF	IF	INSIDE FACE
BETWN	BETWEEN	INFO	INFORMATION
BULDG	BUILDING	INT	INTERIOR
BM	BEAM	JNT	JOINT
BOT	BOTTOM	JST	JOIST
BPL	BASE PLATE	LB	LOAD
BRG	BEARING	LG	LONG
C TO C	CENTER TO CENTER	LH	LONG LEG HORIZONTAL
CANT	CANTILEVER	LLV	LONG LEG VERTICAL
CFS	COLD FORMED STEEL	LH	LONG SIDE HORIZONTAL
CJ	CONSTRUCTION JOINT	LSV	LONG SIDE VERTICAL
CL	CENTER LINE	CLR	CLEAR
CMU	CONCRETE MASONRY UNIT	CMU	CONCRETE MASONRY UNIT
COL	COLUMN	CONC	CONCRETE
CONN	CONNECTION	CONN	CONNECTION
CONST	CONSTRUCTION	CONSTR	CONSTRUCTION
CONTR	CONTRACT	CONTR	CONTRACT
CTR	CENTER	CNTR	CENTER
CTRD	CENTERED	NO or No	NUMBER
DBA	DEFORMED BAR ANCHOR	NS	NEAR SIDE
DEFL	DEFLECTION	NTS	NOT TO SCALE
DET	DETAIL	OC	ON CENTER
DIA	DIAMETER	OD	OUTSIDE DIAMETER
DIAG	DIAGONAL	OFF	OUTSIDE FACE
DIFF	DIFFERENT	OIO	OUT TO OUT
DIM	DIMENSION	OPNG	OPENING
DMD	DITTO	OPP	OPPOSITE
DWG	DRAWING	PERM	PRE-ENGINEERED METAL BUILDING
EA	EACH	PERP	PERPENDICULAR
EF	EACH FACE	PL	PLATE
EJ	EXPANSION JOINT	PANEL	PANEL
ELEV	ELEVATION	PRE-FAB	PRE-FABRICATED
ELEC	ELECTRICAL	PSF	POUNDS PER SQUARE FOOT
ELEV	ELEVATOR	PSE	POUNDS PER SQUARE INCH
ENGR	ENGINEER	FOR	FOOT TENSIONED
ENR	ENGINEER OF RECORD	QTY	QUANTITY
EQ	EQUAL	R or RAD	RADIUS
EQUIP	EQUIPMENT	RD	ROUND
EXIST	EXISTING	REF	REFERENCE
EXP	EXPANSION	REIN	REINFORCEMENT
EXT	EXTERIOR	REQ	REQUIRED
EW	EACH WAY	RECD	RECORD
FB	FLAT BAR	RET	RETAINING
FD	FLOOR DRAIN	REV	REVISION
FDN	FOUNDATION		
FF	FINISH FLOOR		
FLR	FLOOR		
FS	FAR SIDE		
FTG	FOOTING		

GENERAL SYMBOLS

	PLAN, SECTION OR DETAIL NO SHEET NUMBER
	NORTH ARROW
	KEYED NOTE TO PLAN
	REVISION NUMBER
	FOOTING STEP



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UNLESS OTHERWISE NOTED
VER VERIFY
VERT VERTICAL
WA WHERE APPLICABLE
w/ or w/ WITH
w/o WITHOUT
WFP WORK POINT
WS WATERSTOP
WWF WELDED WIRE FABRIC

QTY	QUANTITY
PERM	PRE-ENGINEERED METAL BUILDING
PERP	PERPENDICULAR
PL	PLATE
PANEL	PANEL
PRE-FAB	PRE-FABRICATED
PSF	POUNDS PER SQUARE FOOT
PSE	POUNDS PER SQUARE INCH
FOR	FOOT TENSIONED
QTY	QUANTITY
R or RAD	RADIUS
RD	ROUND
REF	REFERENCE
REIN	REINFORCEMENT
REQ	REQUIRED
RECD	RECORD
RET	RETAINING
REV	REVISION

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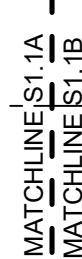
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FOUNDATION PLAN NOTES:

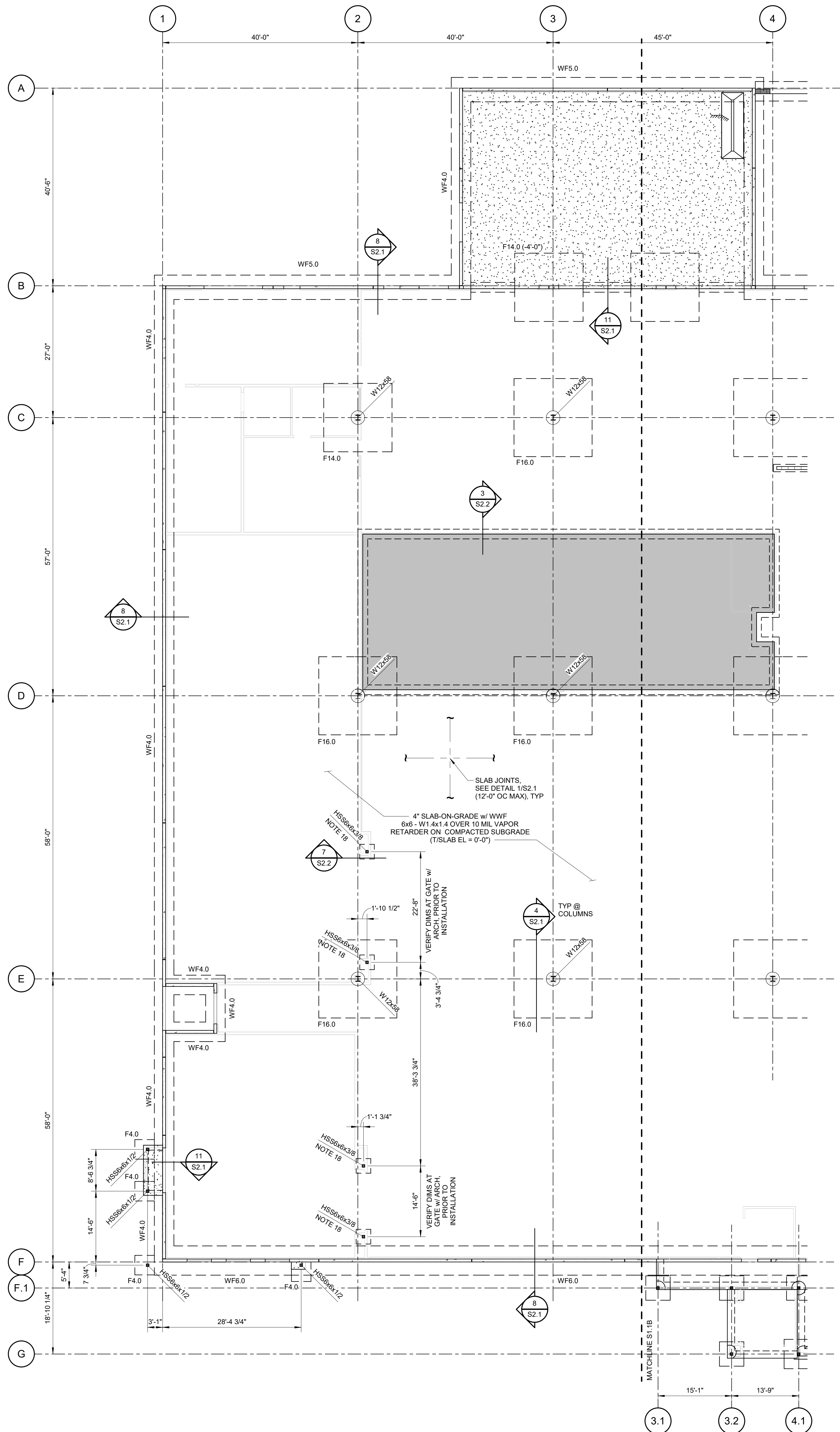
- 1) FOR DESIGN CRITERIA AND GENERAL NOTES, SEE SHEET 50.2.
- 2) FOR DIMENSIONS, SECTIONS & ELEVATIONS NOT SHOWN, SEE ARCH.
- 3) ELEVATIONS ARE BASED ON TISLAB DATUM EL +0'-0". SEE CIVIL DWGS FOR ACTUAL ELEVATION.
- 4) TOP OF SPIRAL FOOTINGS EL = +4'-0", TYP. U/LN
- 5) TOP OF TILT PANEL FOOTINGS EL = +4'-0", TYP. U/LN
- 6) #8 & #9 MID PANEL FOOTINGS EL, SEE SCHEDULE THIS SHEET
- 7) SEE 2502.1 FOR REIN. PATTERNS THROUGH REIN. BUILDING PERIMETER.
- 8) SEE DETAIL 392.12 FOR REIN. @ WALL FOOTING CORNERS.
- 9) SEE DETAIL 344X2-0' MID SLAB @ ALL REIN-TRANSIT CORNERS.
- 10) FOR TYPICAL REIN. LOCATIONS BASED ON 4" C/MU TYP. TO BE UNREINFORCED & FULLY GROUTED.
- 11) DETAIL 344X2-0' MID SLAB @ ALL REIN-TRANSIT CORNERS.
- 12) FOR TYPICAL REIN. LOCATIONS BASED ON 4" C/MU TYP. TO BE UNREINFORCED & FULLY GROUTED.
- 13) DETAIL 12" CMU, SEE PLAN FOR LOCATION & REIN.
- 14) DETAIL 12" CMU, SEE PLAN FOR LOCATION & REIN.
- 15) DETAIL 12" CMU, SEE PLAN FOR LOCATION & REIN.
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- 100) DETAIL 12" CMU, SEE PLAN FOR LOCATION & REIN.

FOOTING SCHEDULE								
TYPE	LENGTH	WIDTH	THICKNESS	BOTTOM REINF (LONG WAY)	BOTTOM REINF (SHORT WAY)	TOP REINF (LONG WAY)	TOP REINF (SHORT WAY)	REMARKS
F4.0	4'-0"	4'-0"	1'-0"	5-#5	5-#5			
F5.0	5'-0"	5'-0"	1'-11"	6-#5	6-#5	6-#5	6-#5	
F6.0	6'-0"	6'-0"	2'-0"	7-#5	7-#5	7-#5	7-#5	
F8.0	8'-0"	8'-0"	2'-0"	12-#8	12-#8	12-#8	12-#8	
F14.0	14'-0"	14'-0"	2'-0"	18-#8	18-#8	18-#8	18-#8	
F16.0	16'-0"	16'-0"	2'-0"	22-#8	22-#8	22-#8	22-#8	
WF2.0	CONT	4'-0"	1'-6"	3-#5	#5 @ 36" OC			
WF4.0	CONT	4'-0"	2'-0"	5-#5	#5 @ 12" OC			
WF5.0	CONT	5'-0"	2'-0"	6-#5	#5 @ 12" OC			
WF6.0	CONT	6'-0"	2'-0"	7-#5	#5 @ 12" OC			



TO THE BEST OF THE ENGINEERS
KNOWLEDGE, THE PLANS AND
SPECIFICATIONS COMPLY WITH THE
APPLICABLE MINIMUM BUILDING
CODES FOR THIS PART OF THE WORK
IN ACCORDANCE WITH THE
APPLICABLE FLORIDA STATUTES.

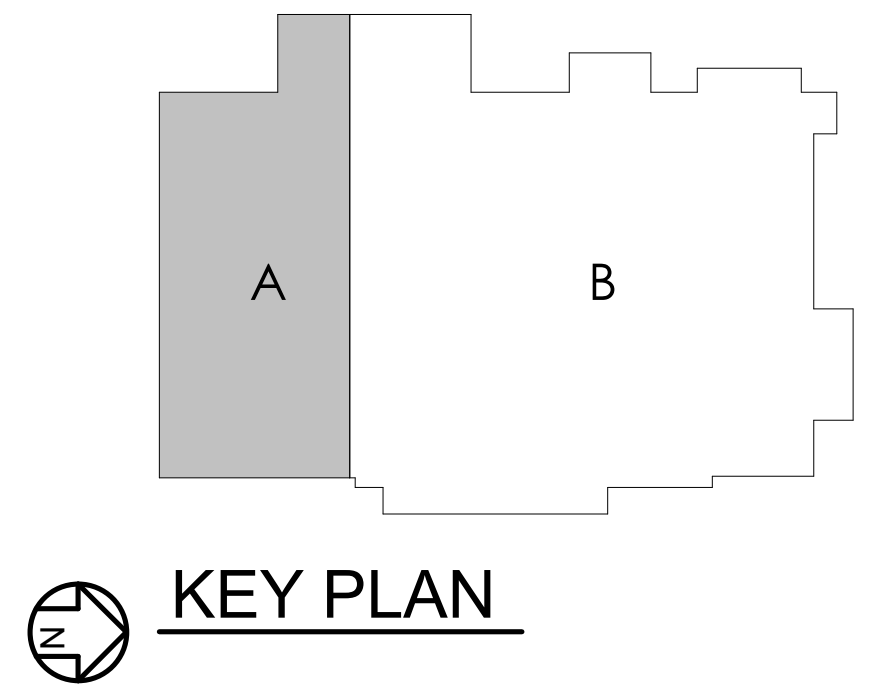
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PARTIAL FOUNDATION PLAN - 'A'

SCALE: 3/32" = 1'-0"

FOUNDATION PLAN NOTES:
1) SEE S1.1 FOR PLAN NOTES.



TO THE BEST OF THE ENGINEERS
KNOWLEDGE, THE PLANS AND
SPECIFICATIONS COMPLY WITH THE
APPLICABLE MINIMUM BUILDING
CODES FOR THIS PART OF THE WORK
IN ACCORDANCE WITH THE
APPLICABLE FLORIDA STATUTES.

SW WEBBS GLN
E CITY, FL 32024

PROJECT NO.: 22024

DATE: 06/02/2025

FOR ISSUES: _____

1.1B

AWN BY: ES

CHECKED BY: _____ CF _____

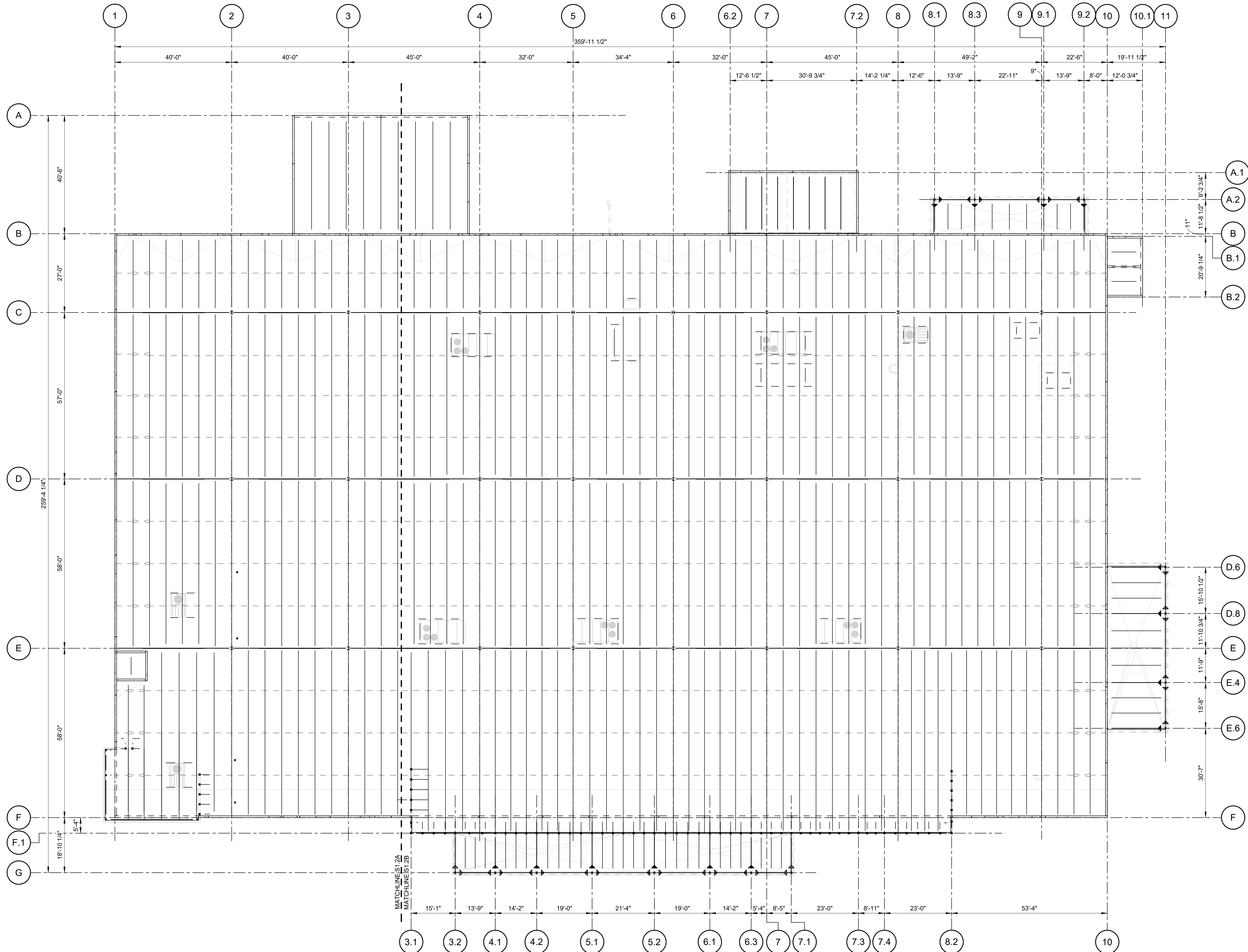
100%
CONSTRUCTION
DOCUMENTS



FOUNDATION PLAN NOTES:
1) SEE S1.1 FOR PLAN NOTES.



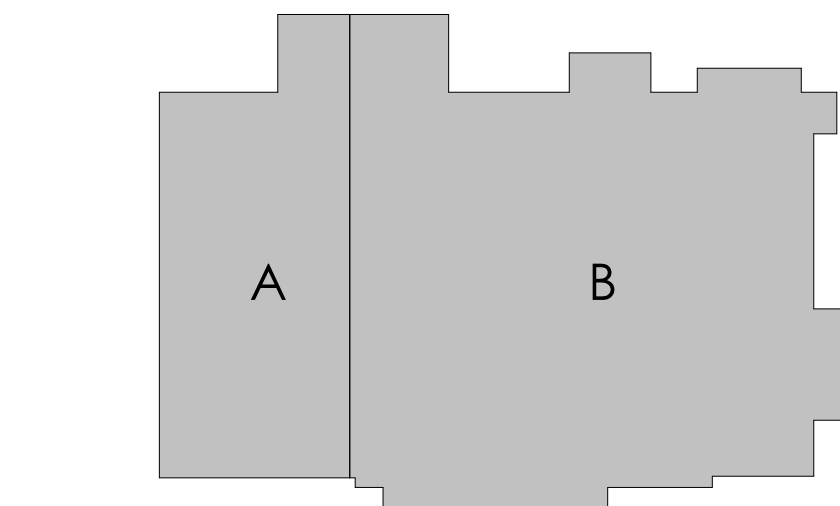
TO THE BEST OF THE ENGINEERS KNOWLEDGE, THE PLANS AND SPECIFICATIONS COMPLY WITH THE APPLICABLE MINIMUM BUILDING CODES FOR THIS PART OF THE WORK IN ACCORDANCE WITH THE APPLICABLE FLORIDA STATUTES.



OVERALL ROOF FRAMING PLAN
SCALE: 1/16" = 1'-0"

- ROOF FRAMING PLAN NOTES:
- 1) FOR DESIGN CRITERIA AND GENERAL NOTES, SEE SHEET S0.2.
 - 2) SEE ARCHITECTURAL DRAWINGS FOR DIMENSIONS, SECTIONS, AND ELEVATIONS NOT SHOWN.
 - 3) 1/8" ELEVATIONS VARY. SEE PLAN AND ARCH.
 - 4) ELEVATIONS ARE BASED ON T&B DATUM EL. 0'-0". SEE CIVIL DWGS FOR ACTUAL ELEVATION.
 - 5) ———> INDICATES SPAN DIRECTION OF METAL DECK. SEE PLAN FOR SIZE AND GAUGE.
 - 6) ROOF DECK ATTACHMENT SHALL BE PER DETAIL 1/S5.1.
 - 7) FOR BEAM TO BEAM & BEAM TO COLUMN CONNECTION, SEE DETAILS 1/S4.1 2/S4.1 7/S4.1.
 - 8) ———> INDICATES MOMENT CONNECTION. SEE 3/S4.1.
 - 9) VERIFY ALL DIMENSIONS AFFECTED BY MECHANICAL WITH ACTUAL EQUIPMENT PURCHASED PRIOR TO FABRICATION OF STEEL FRAMING.
 - 10) BEAMS & OTHER FRAMING MEMBERS WERE DESIGNED TO ACCOMMODATE A MISCELLANEOUS HANGING LOAD (INCLUDING DUCTWORK, SPRINKLER SYSTEM, PLUMBING, CEILING & OTHER MISCELLANEOUS HANGING COMPONENTS) OF 8 PSF. HANGING LOADS SHALL BE DISTRIBUTED AS TO NOT EXCEED THIS VALUE.
 - 11) FOR ROOF SLOPE, SEE ARCH.
 - 12) FOR ADDITIONAL FRAMING AT MECHANICAL UNITS AND ROOF PENETRATIONS, SEE DETAILS 2/S5.1, 3/S5.1 & 4/S5.1. SOME PENETRATIONS MAY NOT BE SHOWN. COORDINATE AND VERIFY OPENINGS WITH ARCH & MECH DWGS.
 - 13) FOR FRAMING FUTURE HOODS OVER RESTAURANT, SEE DETAIL 2/S5.1.
 - 14) FOR EDGE ANGLE SPLICE, SEE DETAIL 9/S4.1.
 - 15) ALL EXTERIOR STEEL TO BE GALVANIZED.
 - 16) ALL EXPOSED STEEL TO BE FINISHED IN ACCORDANCE W/ AESS SPECS.
 - 17) ALL STEEL BEAMS TO HAVE L2x2x1/4 T&B BRACING LOCATED AT THIRD POINTS ALONG THE LENGTH OF THE BEAM.
 - 18) JOISTS & BEAMS TO BE SPACED EVENLY BETWEEN COLUMNS AND NOT TO EXCEED 6'-0".
 - 19) FOR FIRE SPRINKLER SUPPORT SEE DETAIL 10/S6.1.
 - 20) JOIST SEATS SHALL BE DESIGNED TO RESIST A LATERAL LOAD APPLIED TO THE TOP CHORD, PERPENDICULAR TO THE SPAN (ROLL-OVER), PROVIDE A MINIMUM ULTIMATE ROLLOVER FORCE OF 1500 LB.
 - 21) JOIST MANUF. TO DESIGN JOISTS AT RTU'S FOR RTU LOADING AS SHOWN ON PLAN. THE WEIGHTS AS SHOWN INCLUDE A 40# CURB.

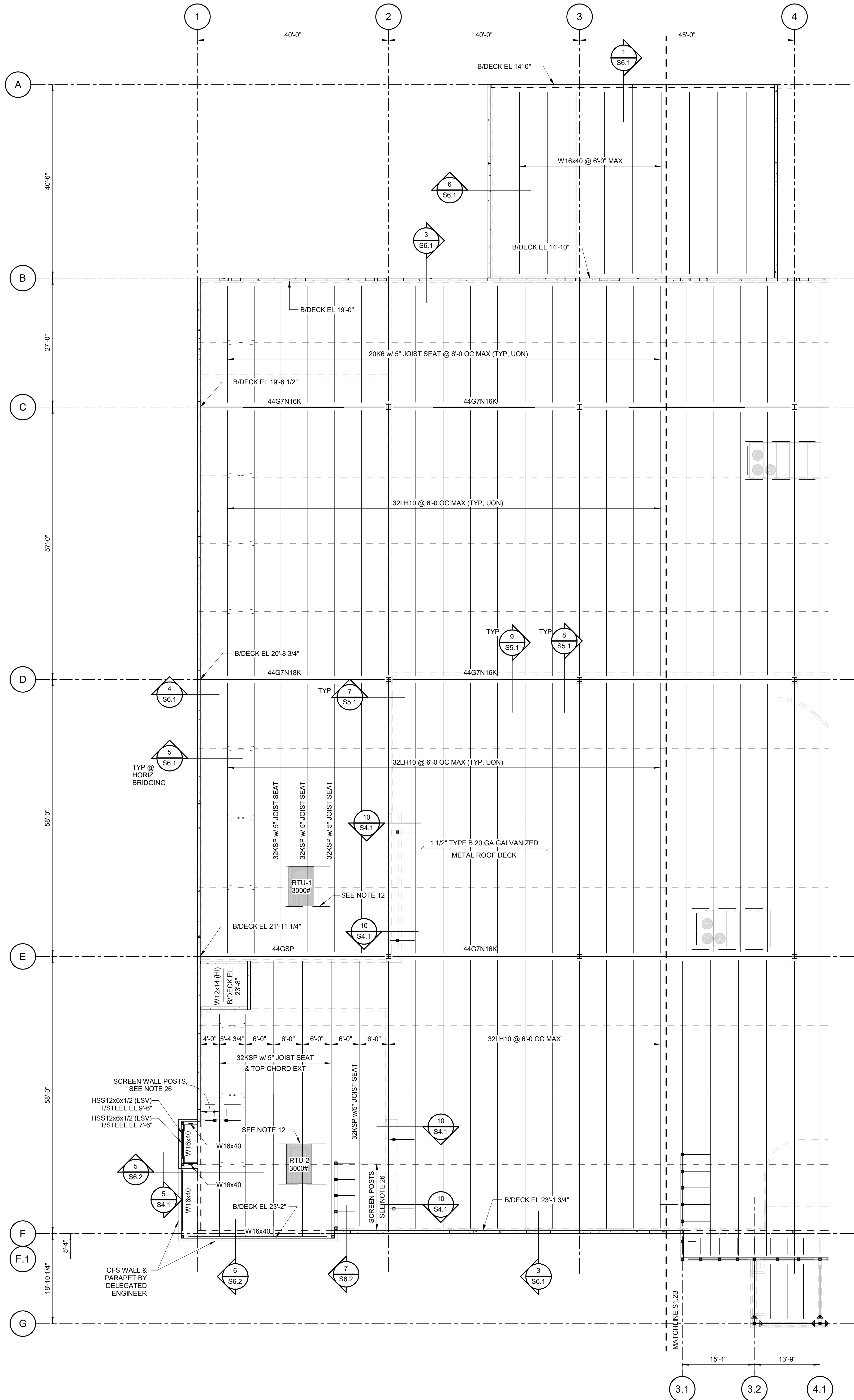
- 22) JOISTS DENOTED 'SP' ARE SPECIAL DESIGNED JOISTS BY JOIST MANUFACTURER SPECIAL LOADING REQUIREMENTS (IN ADDITION TO TYPICAL LOADING) ARE NOTED ON PLAN AND IN DETAILS.
- 23) JOIST MANUF. TO COORD BRIDGING REQUIREMENTS W/ DUCTWORK BETWEEN JOIST. SEE MECH FOR DUCT LAYOUT.
- 24) THE JOIST SIZING BENEATH THE RTU'S ARE BASED ON THE RTU WEIGHTS SHOWN. NOTIFY ENGINEER IF ACTUAL EQUIPMENT EXCEEDS THIS WEIGHT.
- 25) AT LOCATIONS WHERE LH JOISTS AND K-SERIES JOISTS BEAR ON THE SAME ELEMENT, THE K-SERIES JOISTS SHALL BE DESIGNED FOR A 5' JOIST SEAT (BY JOIST ENGINEER).
- 26) SCREENWALL LOCATED OVER STARBUCKS CONSISTS OF HSS4x4x3/8 SPACED AT 4'-0" MAX, SEE ARCH FOR LOCATION. SEE 9/S6.2 AND 10/S6.2 FOR ANGLE SUPPORT INFORMATION.
- 27) FOR CONCENTRATED LOADS AT JOIST, SEE 11/S5.1.
- 28) FOR HSS WIND GIRT CONNECTION, SEE DETAIL 6/S4.1.



KEY PLAN

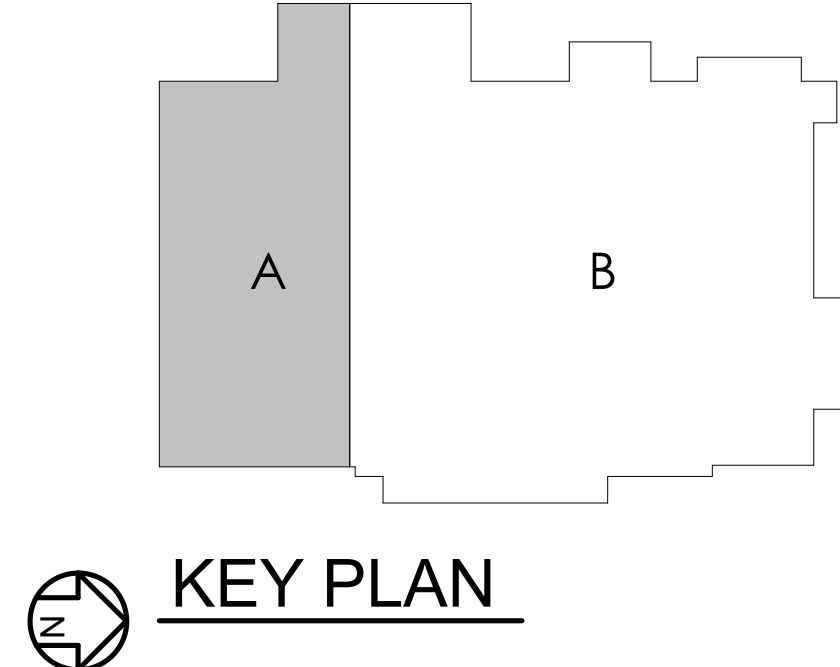
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PARTIAL ROOF FRAMING PLAN - 'A'
SCALE: 3/32" = 1'-0"

ROOF FRAMING PLAN NOTES:
1) SEE S1.2 FOR PLAN NOTES.



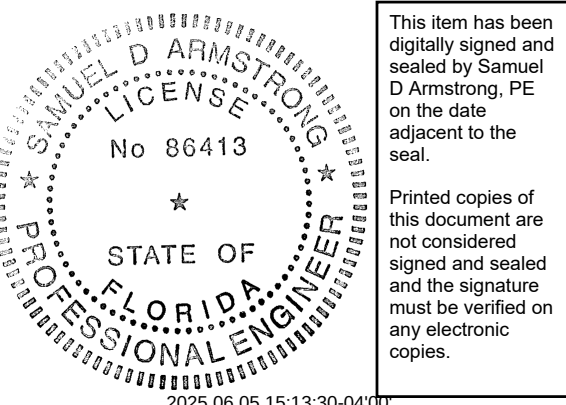
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ERIK C. KASPER AR#0017162

**BUSY BEE
ELLISVILLE**

136 SW WEBBS GLN
LAKE CITY, FL 32024

PROJECT NO.: 22024

DATE: 06/02/2025

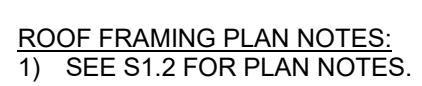
PRIOR ISSUES:

**PARTIAL ROOF
FRAMING PLAN -
'A'**

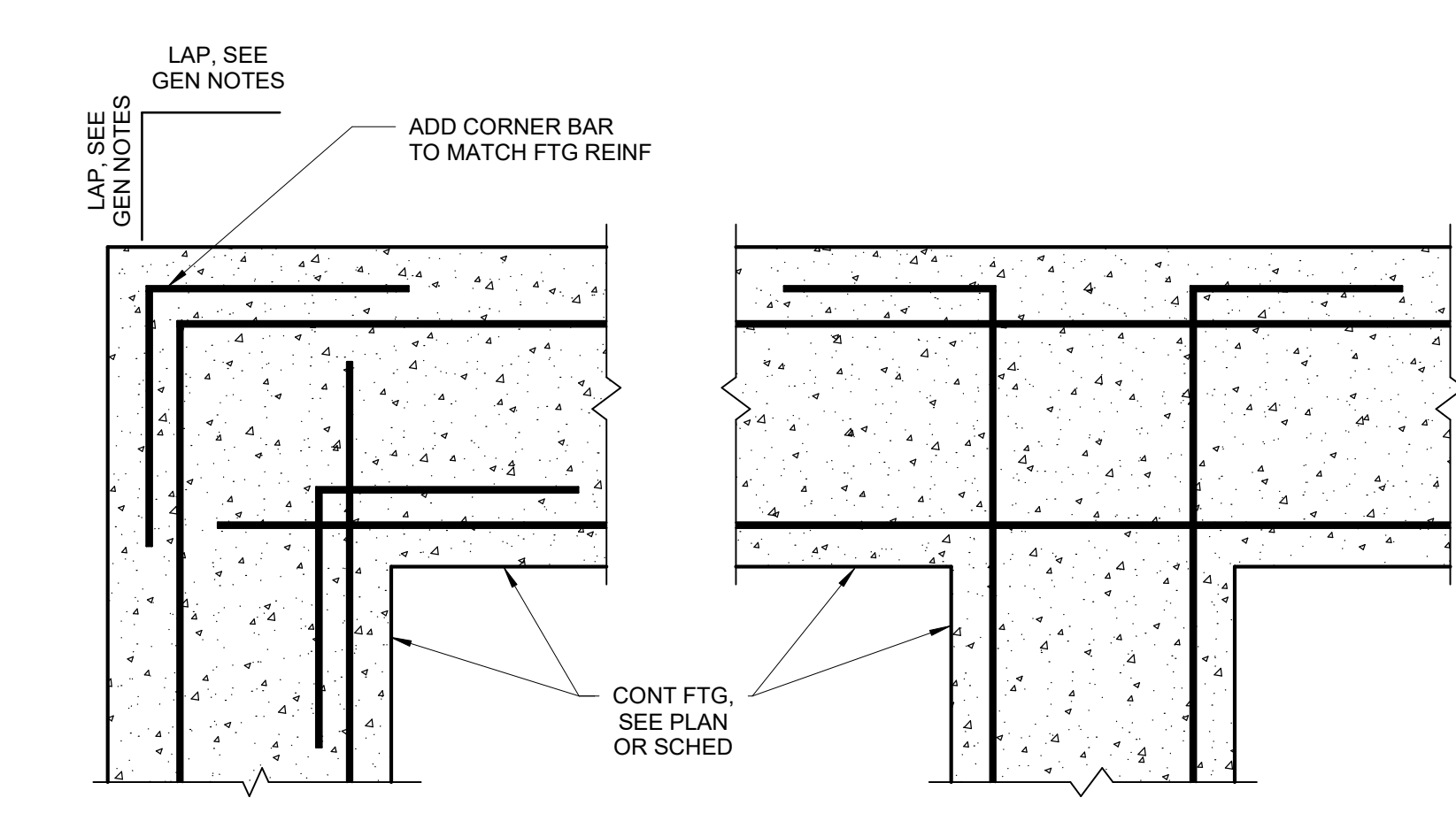
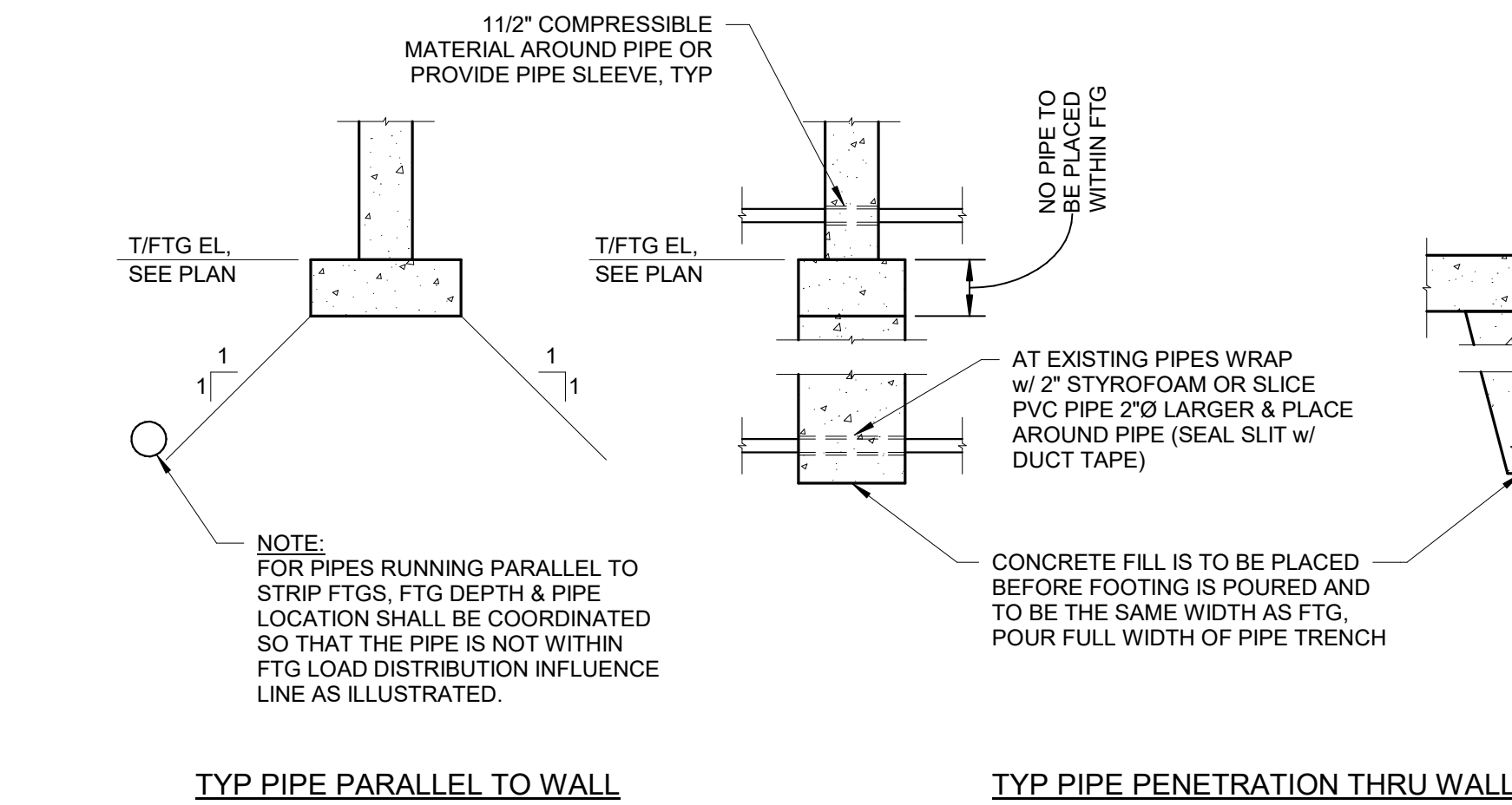
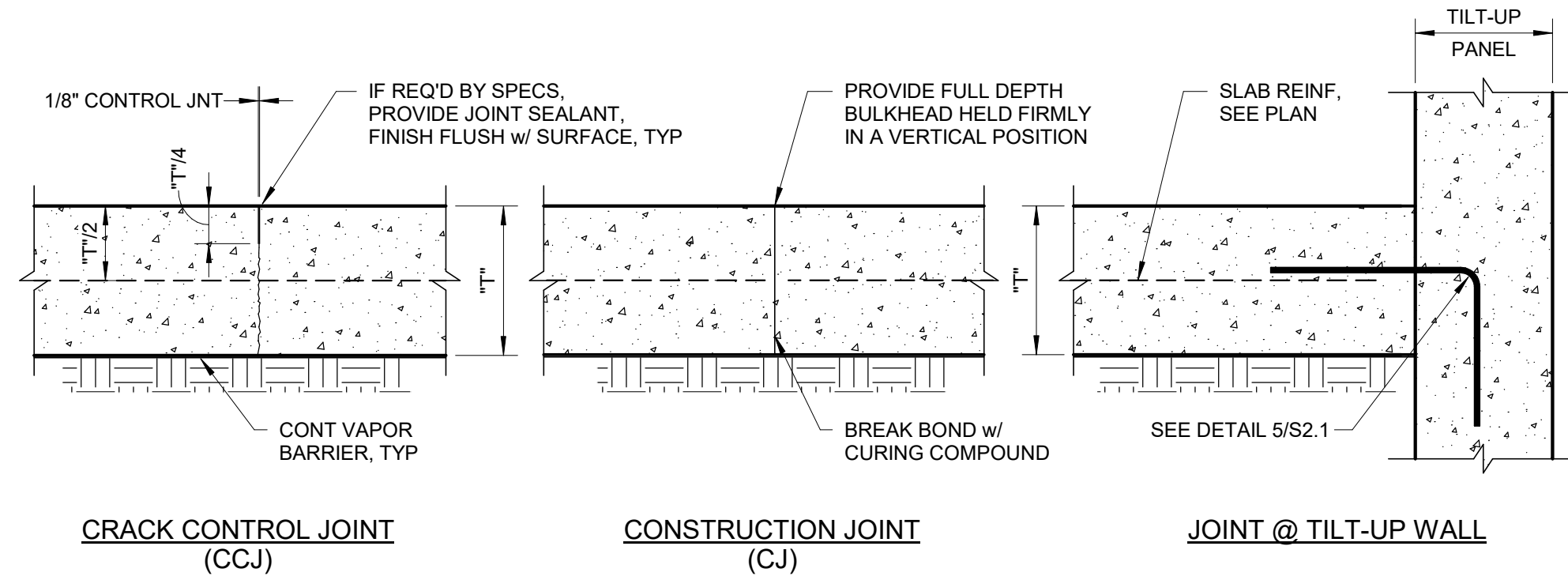
S1.2A

DRAWN BY: ES
CHECKED BY: CF

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DOCUMENTS**



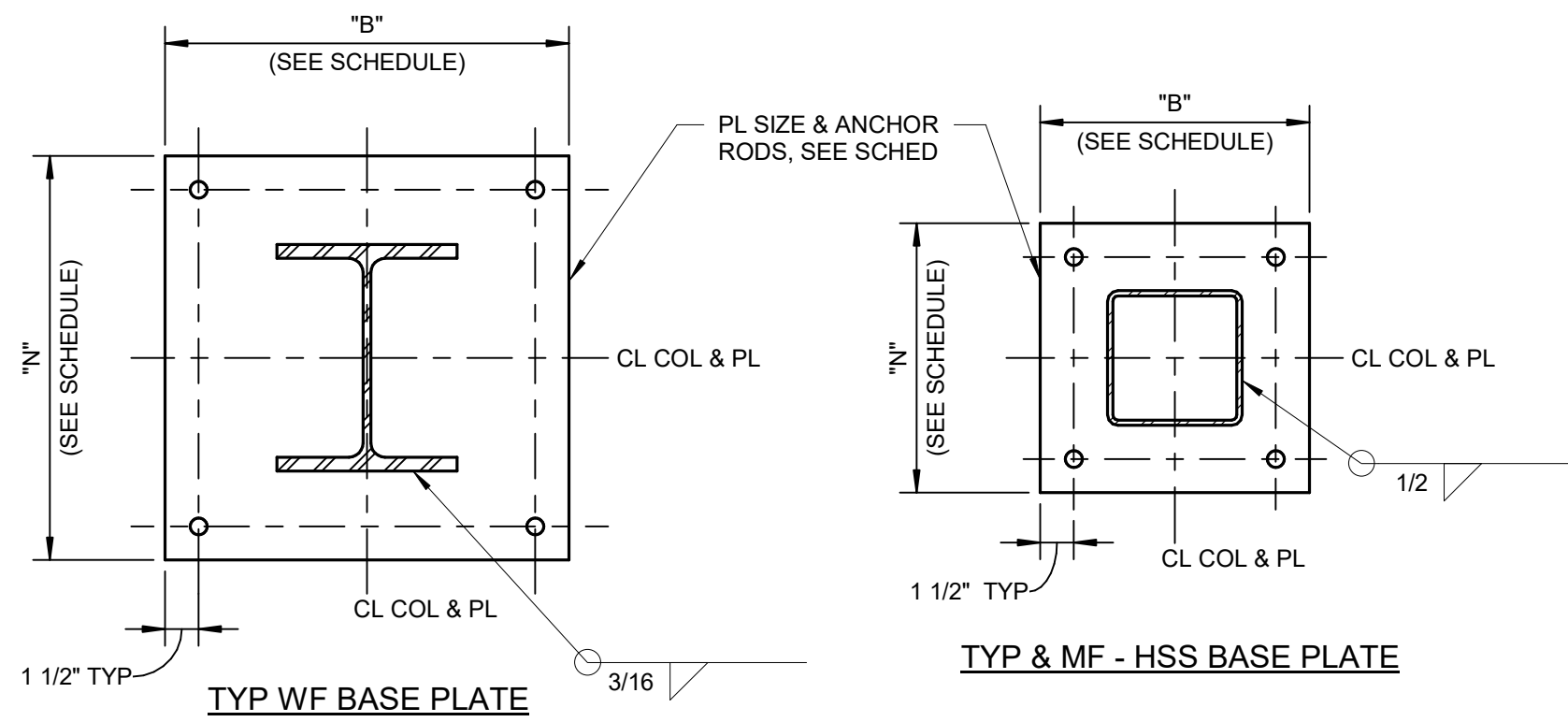
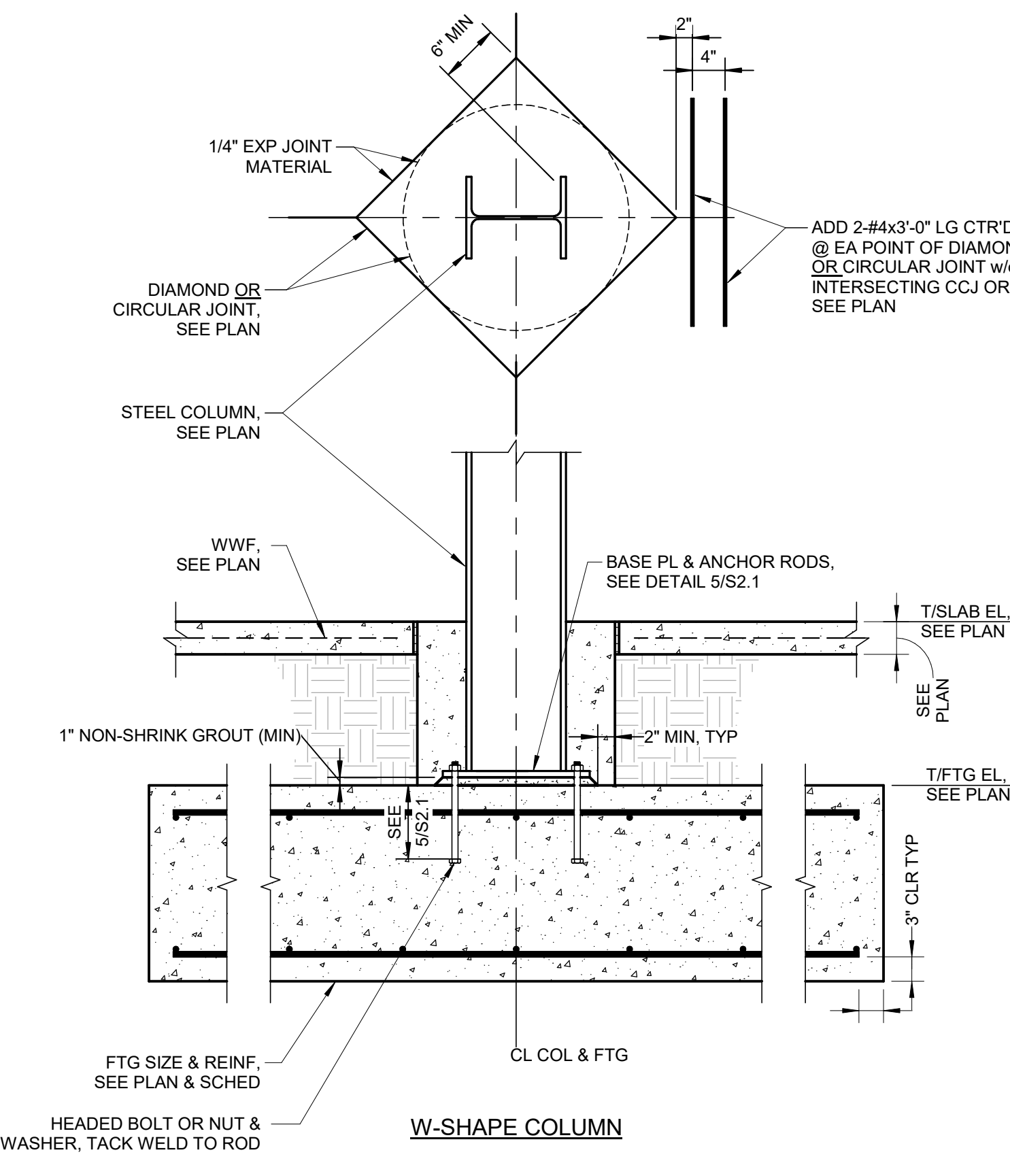
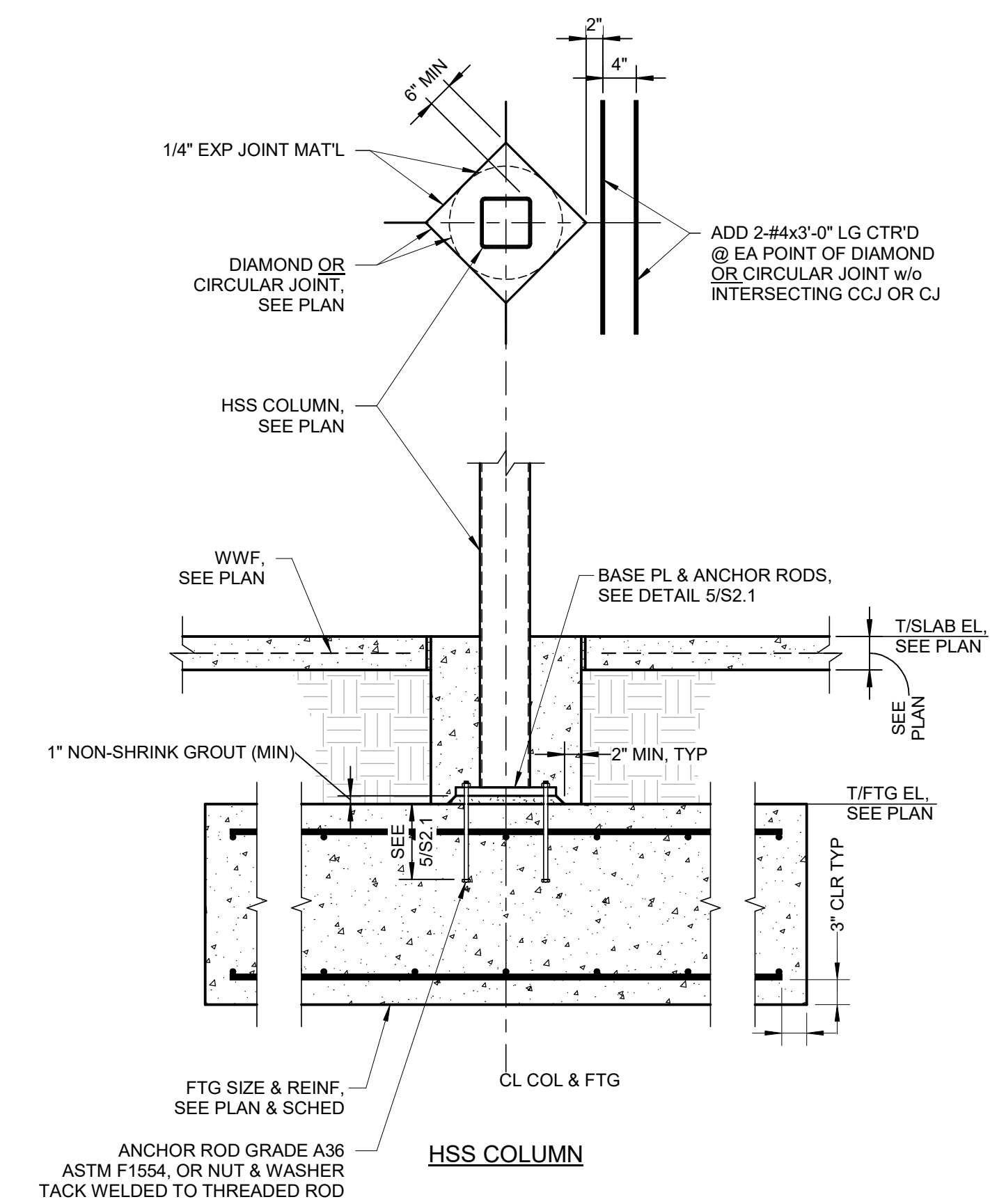
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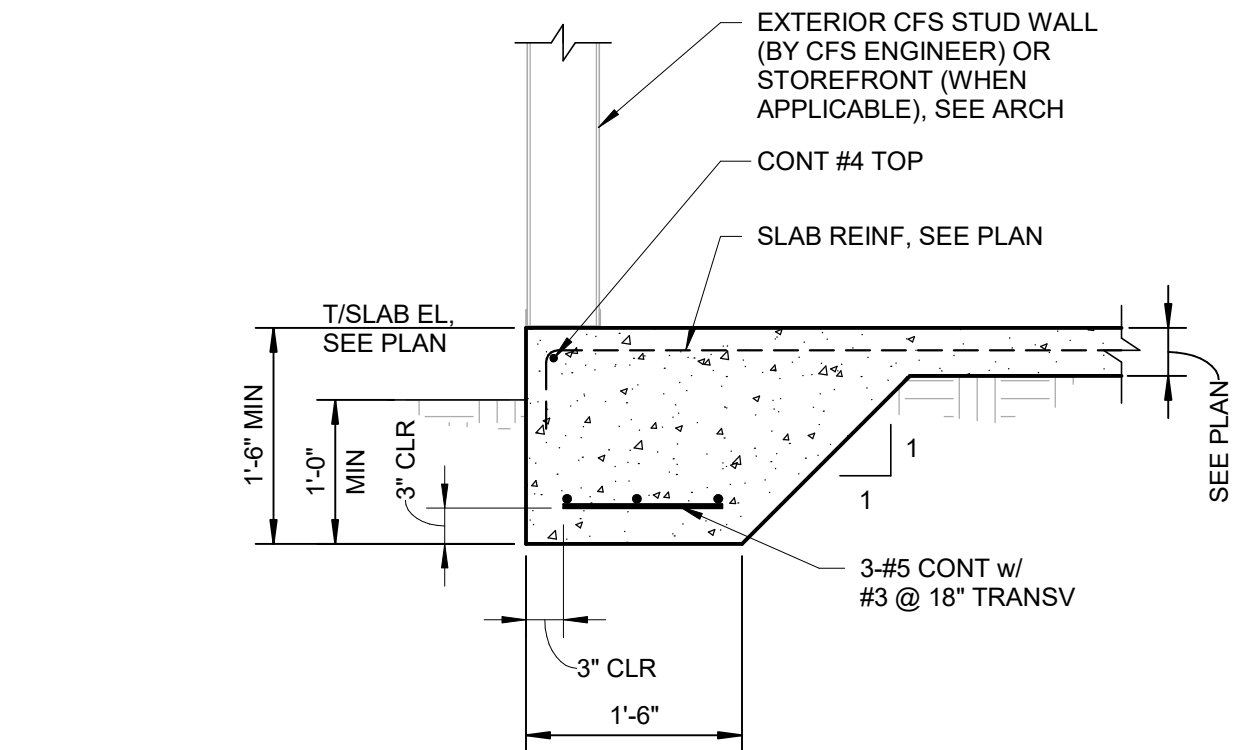
1 TYP SLAB ON GRADE JOINTS
SCALE: NTS

2 TYP PIPE PENETRATION THRU FOOTING
SCALE: NTS

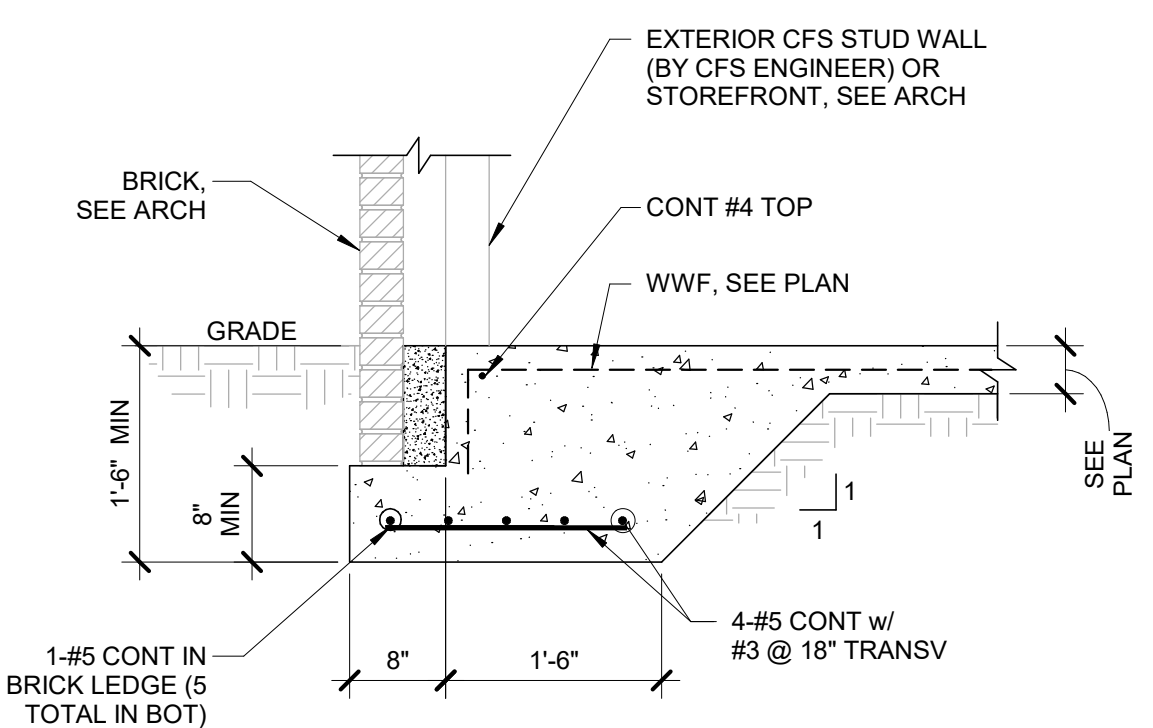
3 TYP CORNER FTG REINF
SCALE: NTS



BASE PLATE SCHEDULE			
COLUMN	PLATE (bXh)	ANCHOR RODS	EMBED (MIN)
WF	3/4"x18"x1'-6"	(4) 3/4"	9"
HSS	3/4"x12"x1'-0"	(4) 3/4"	9"



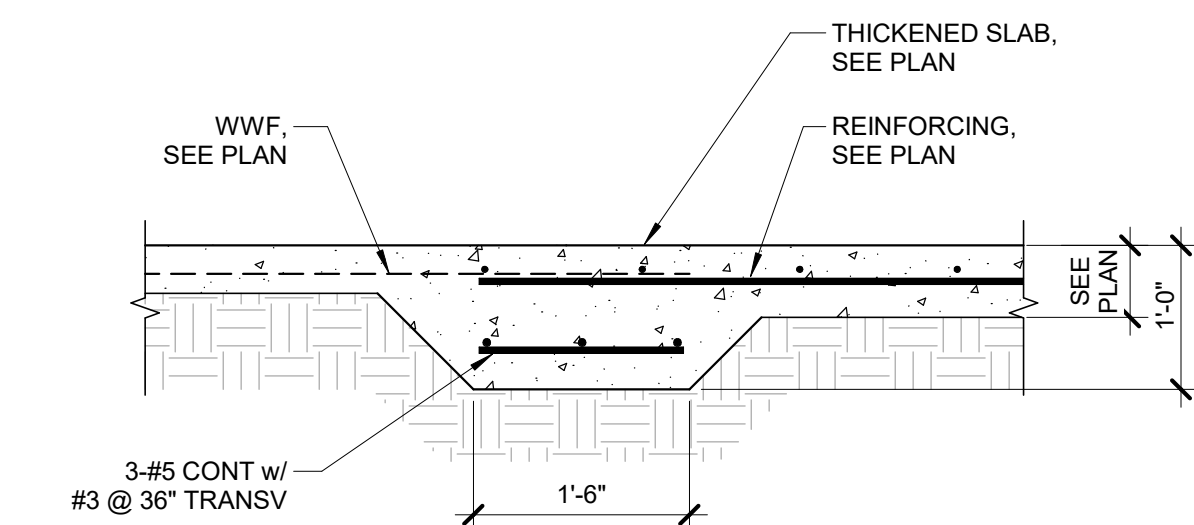
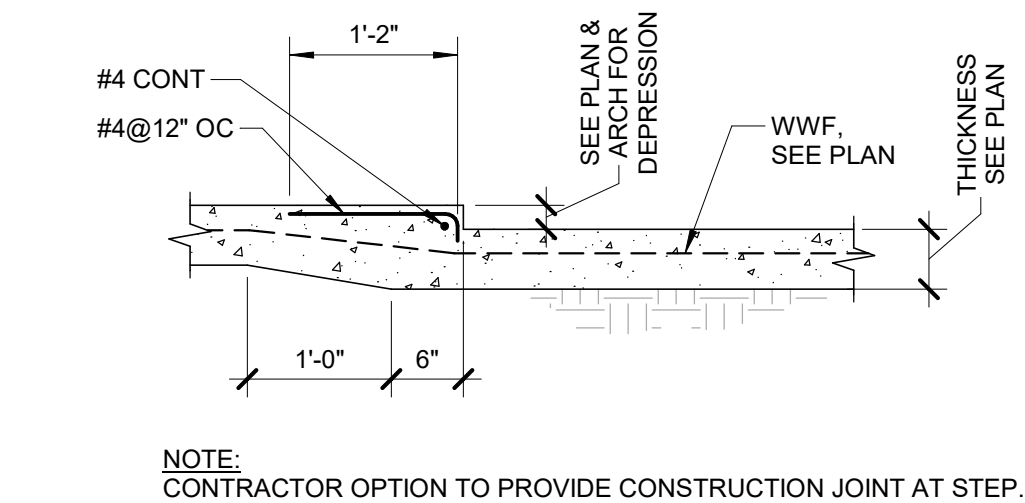
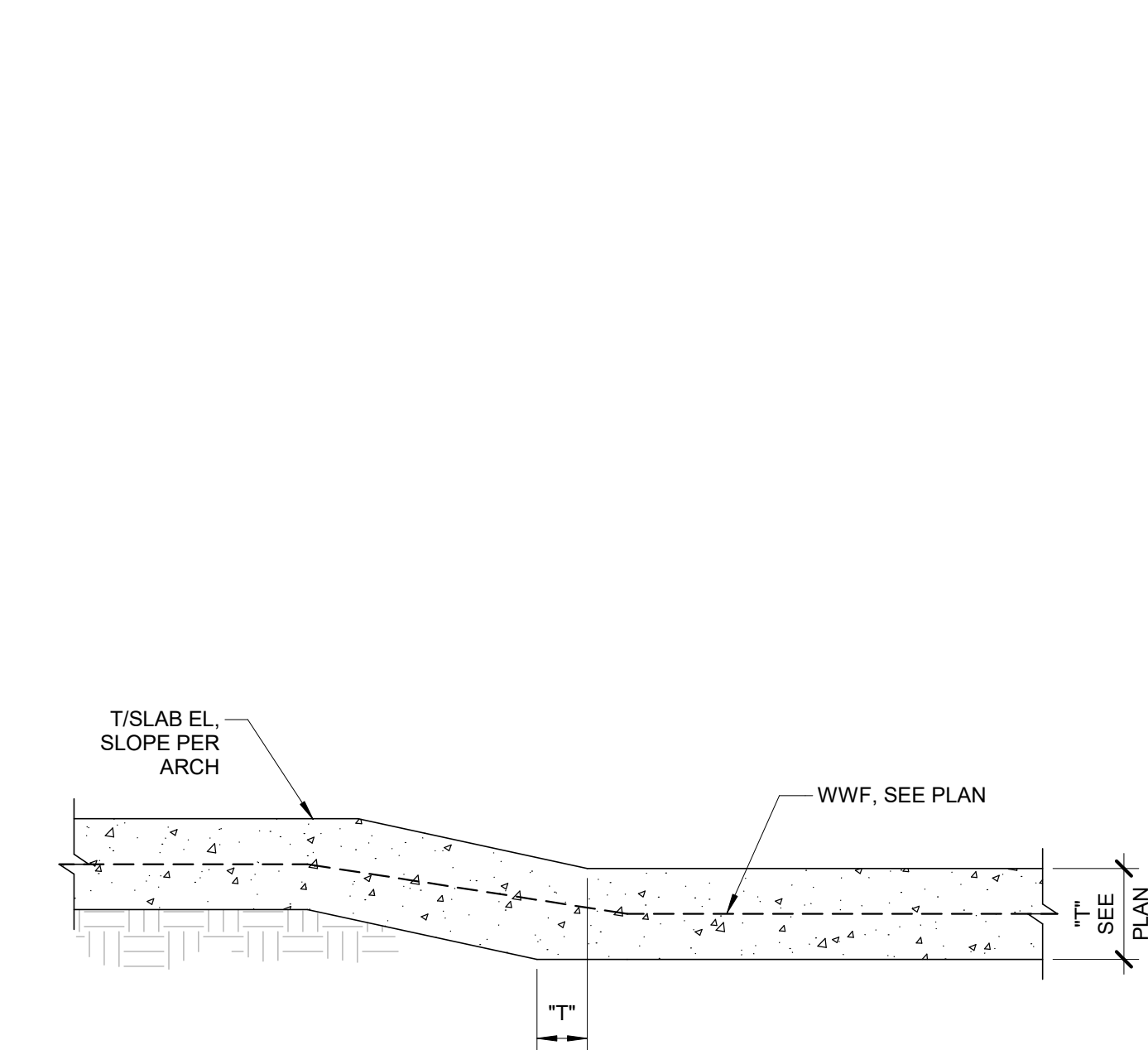
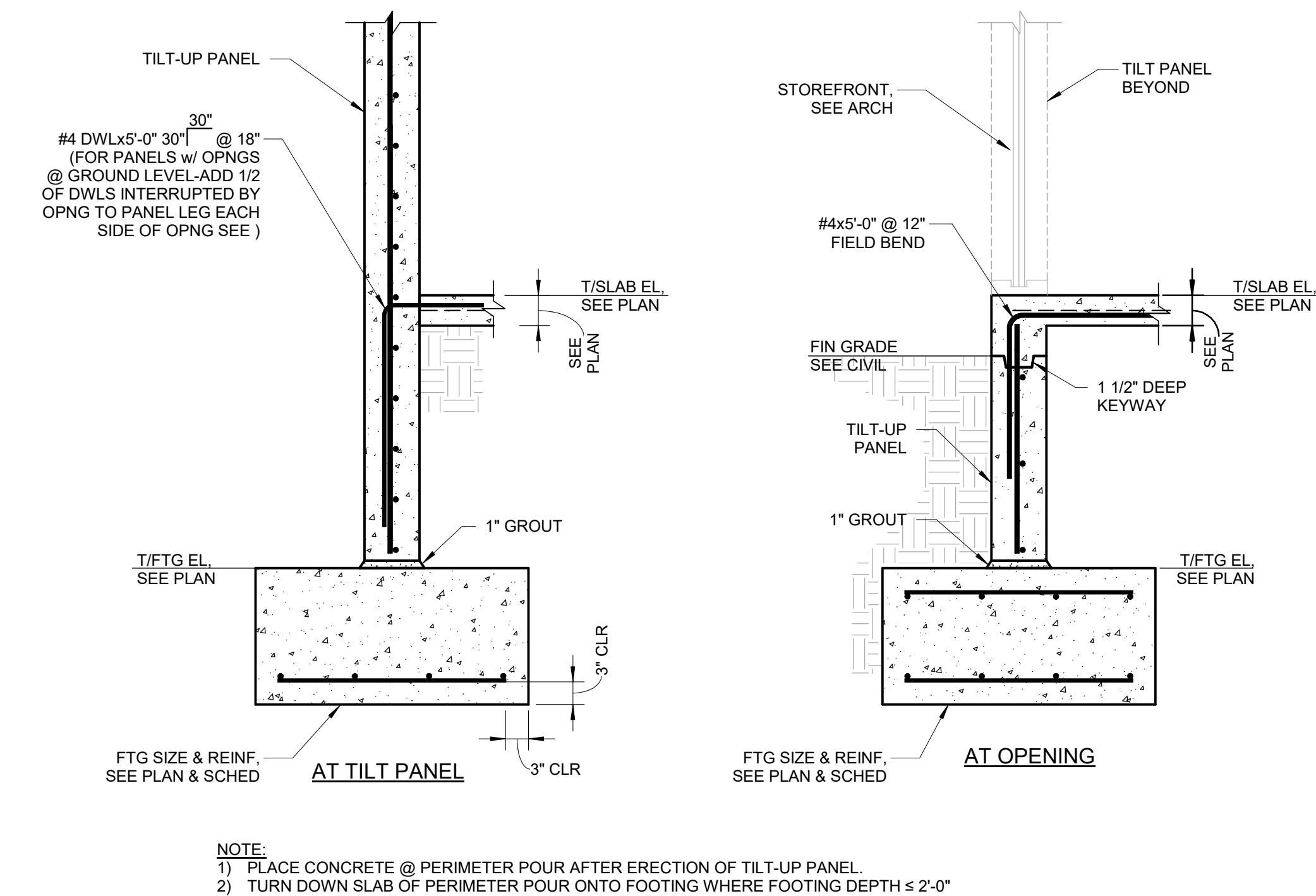
6 TYP TURNDOWN @ METAL STUD WALL
SCALE: NTS



7 TYP TURNDOWN W/ BRICK LEDGE
SCALE: NTS

4 TYPICAL COLUMN FOOTINGS
SCALE: NTS

5 COLUMN BASE PL
SCALE: NTS



8 PERIMETER TILT WALL FOUNDATION
SCALE: NTS

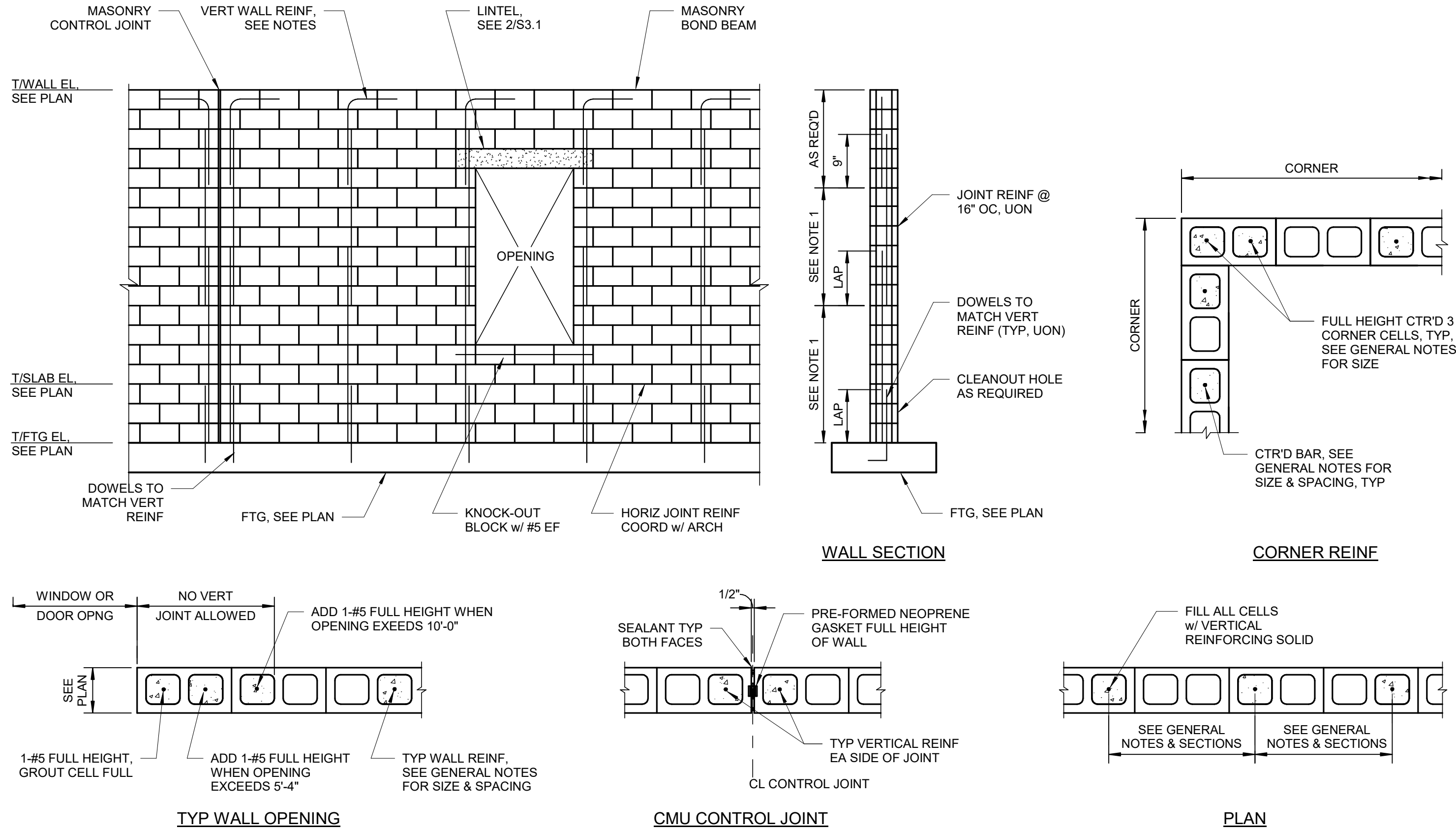
9 TYP SLOPED SLAB
SCALE: NTS

10 TYPICAL SLAB DEPRESSION
SCALE: NTS

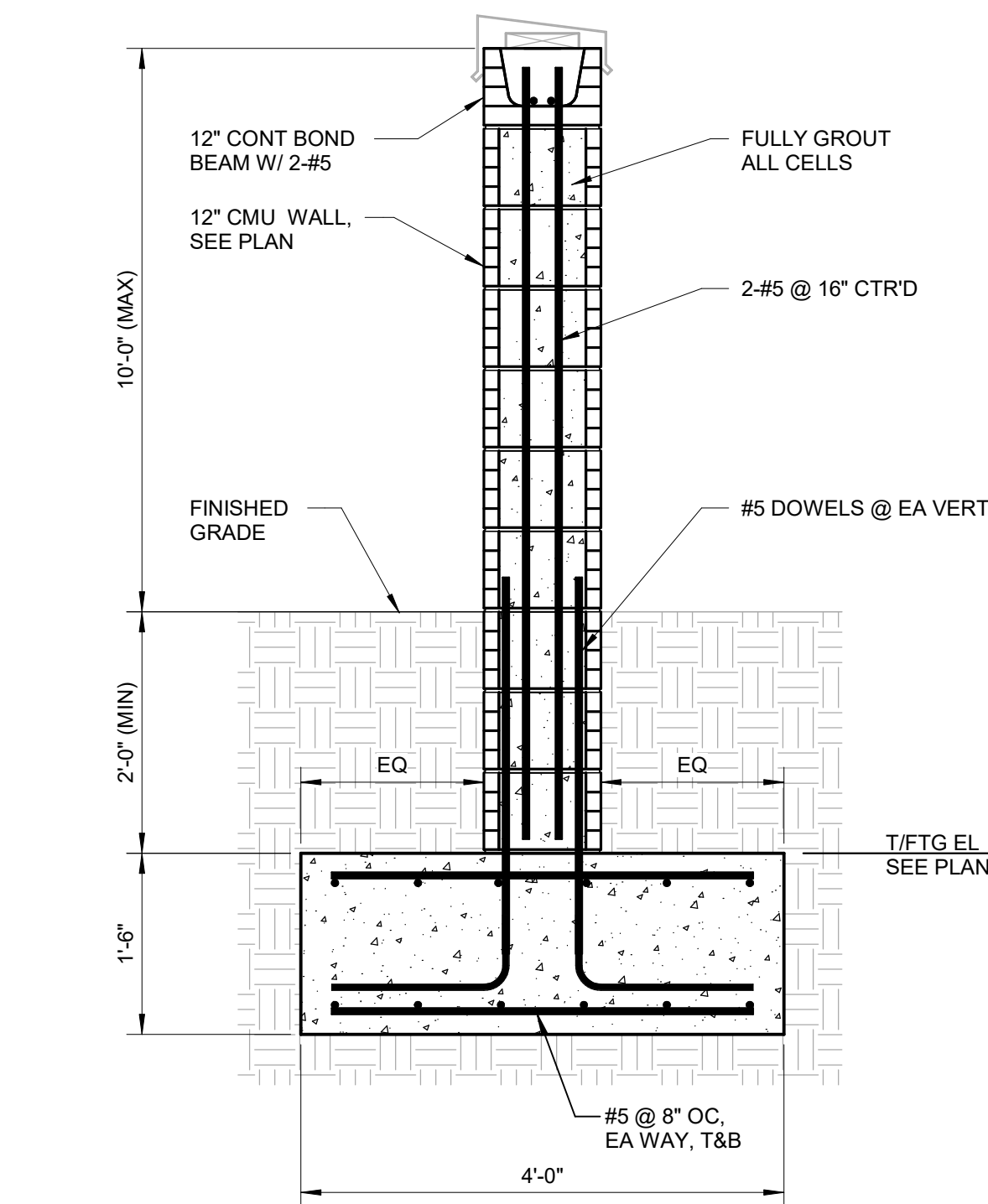
11 TRANSITION IN SLAB THICKNESS
SCALE: NTS

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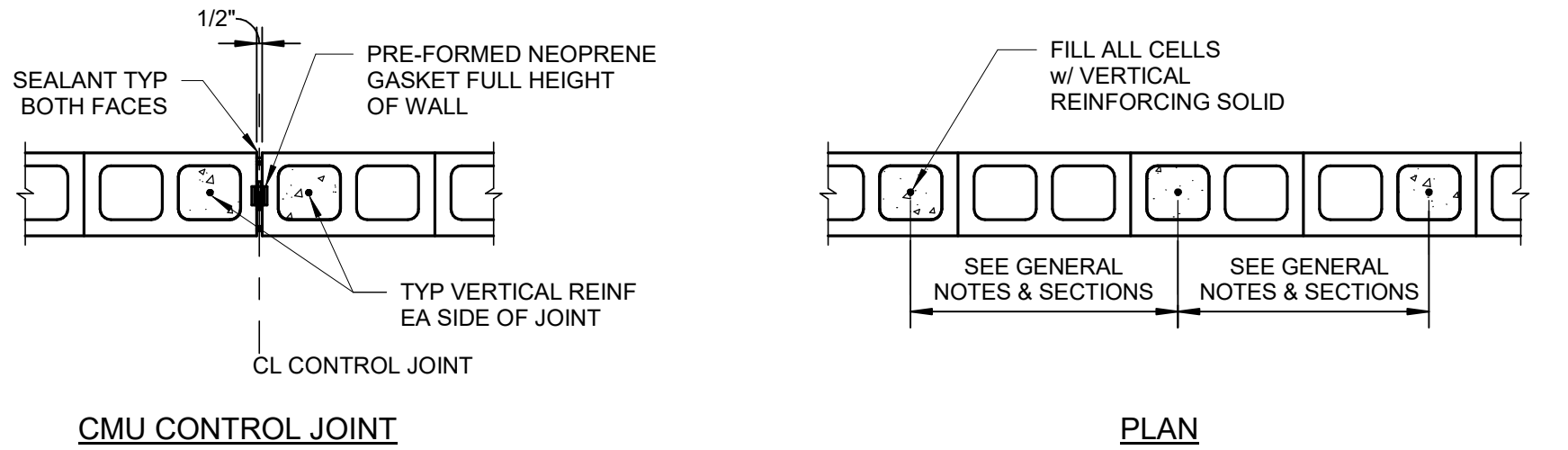
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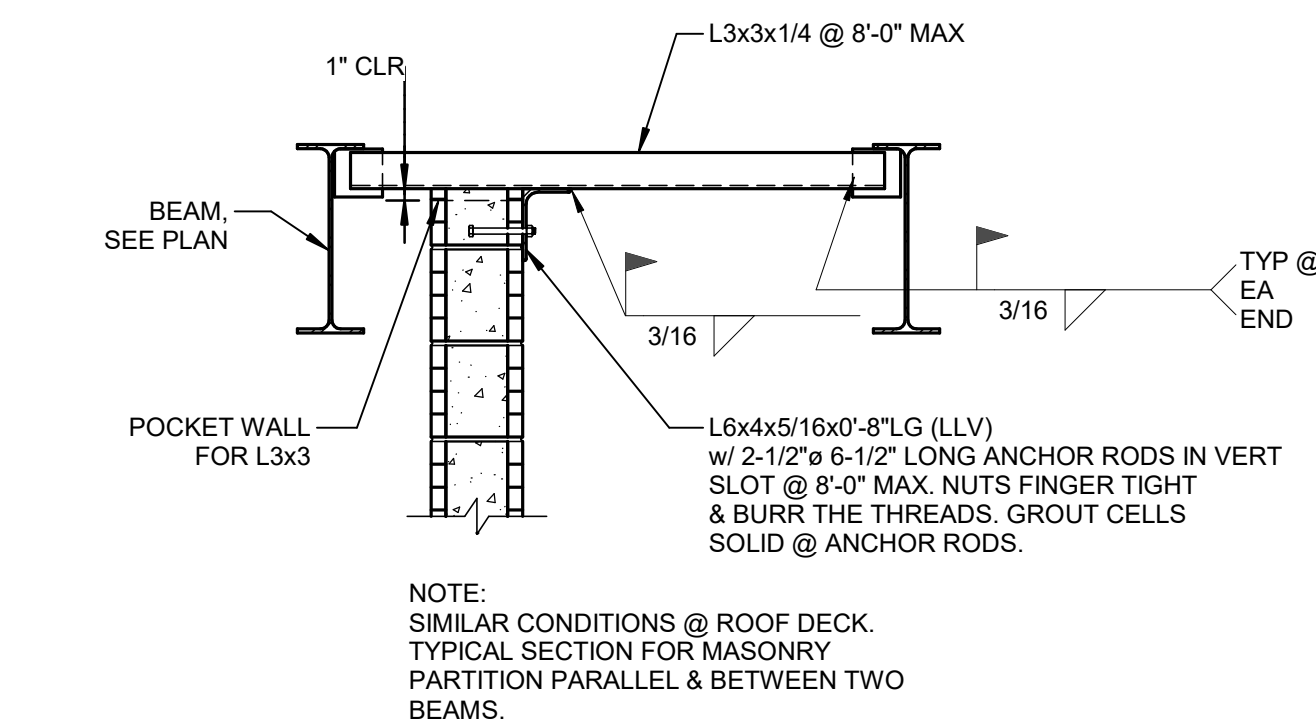
1 TYP REINF MASONRY WALL
S3.1 SCALE: NTS



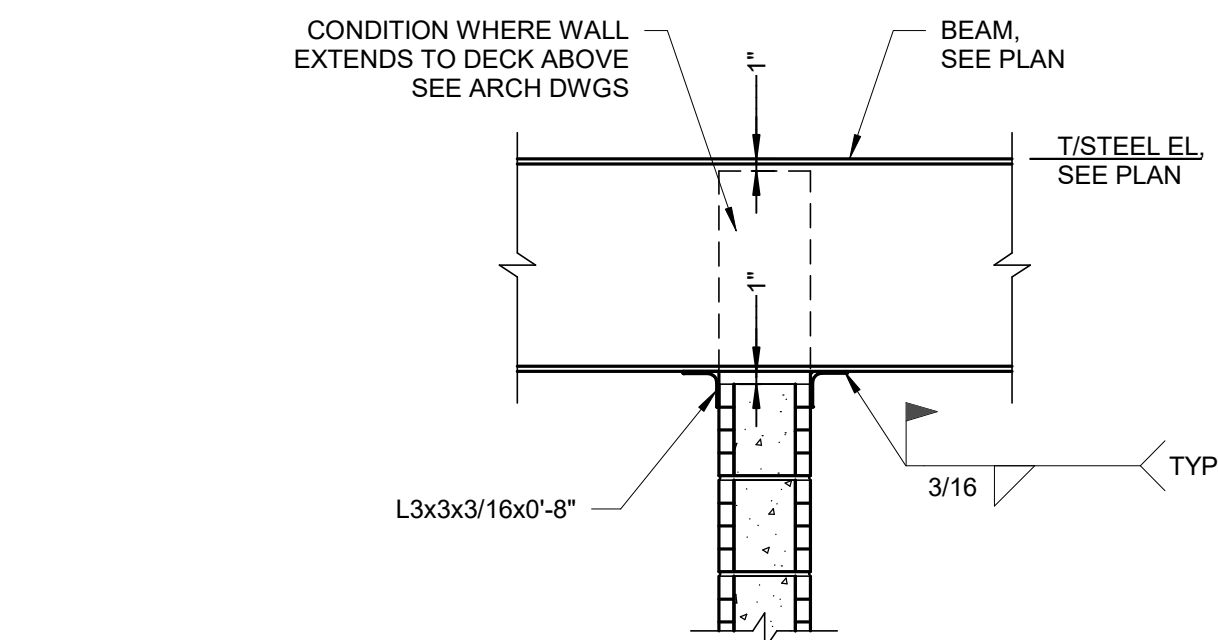
4 CMU ENCLOSURE WALL
S3.1 SCALE: NTS



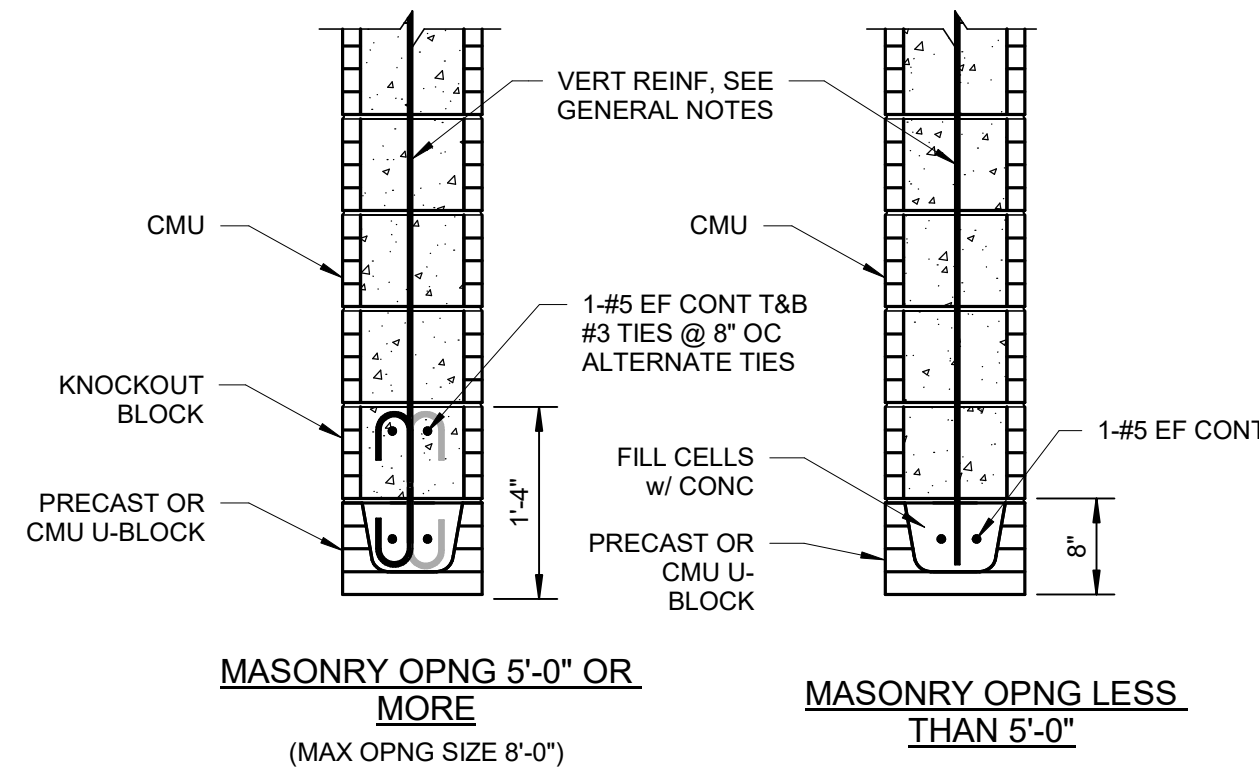
2 TYP MASONRY LINTEL DETAIL
S3.1 SCALE: NTS



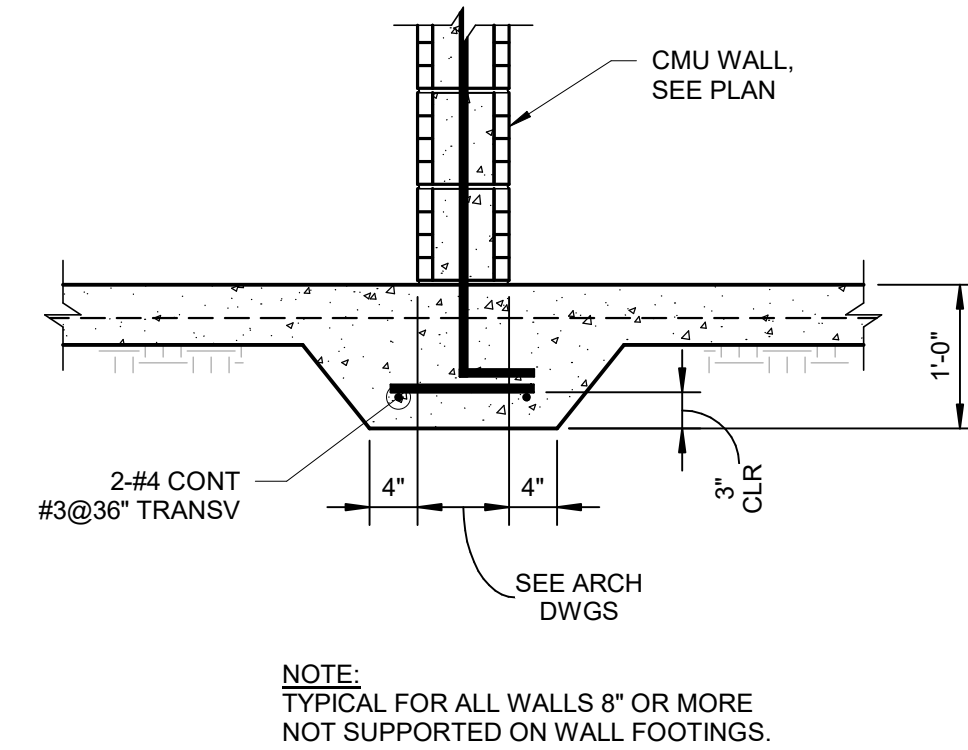
5 NON-LOAD BEARING CMU WALL AT BEAM (PARALLEL)
S3.1 SCALE: NTS



6 NON-LOAD BEARING CMU WALL AT BEAM (PERPENDICULAR)
S3.1 SCALE: NTS



3 TYP NON-LOAD BEARING WALL THICKENED SLAB
S3.1 SCALE: NTS



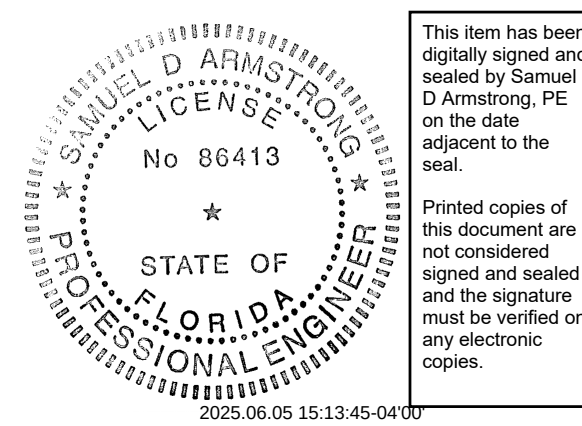
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ERIK C. KASPER AR#0017162

BUSY BEE
ELLISVILLE

136 SW WEBBS GLN
LAKE CITY, FL 32024
PROJECT NO.: 22024
DATE: 06/02/2025
PRIOR ISSUES:

MASONRY
SECTIONS &
DETAILS

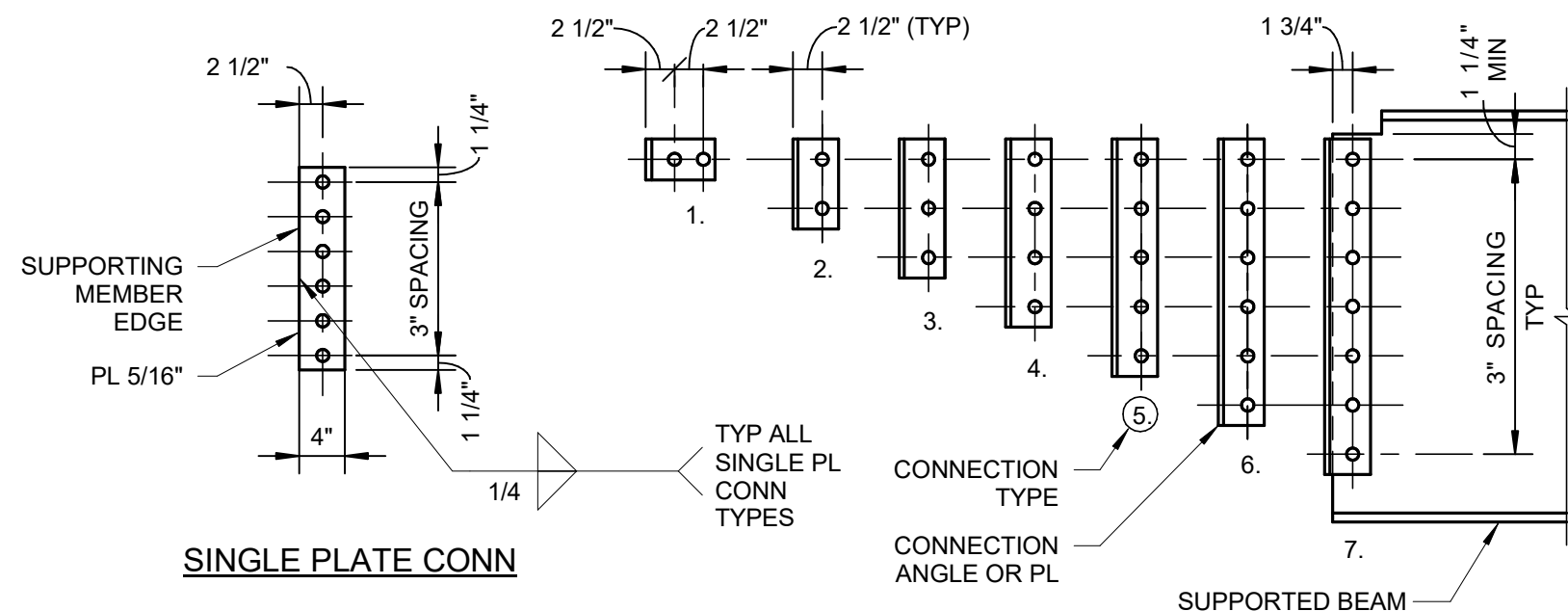
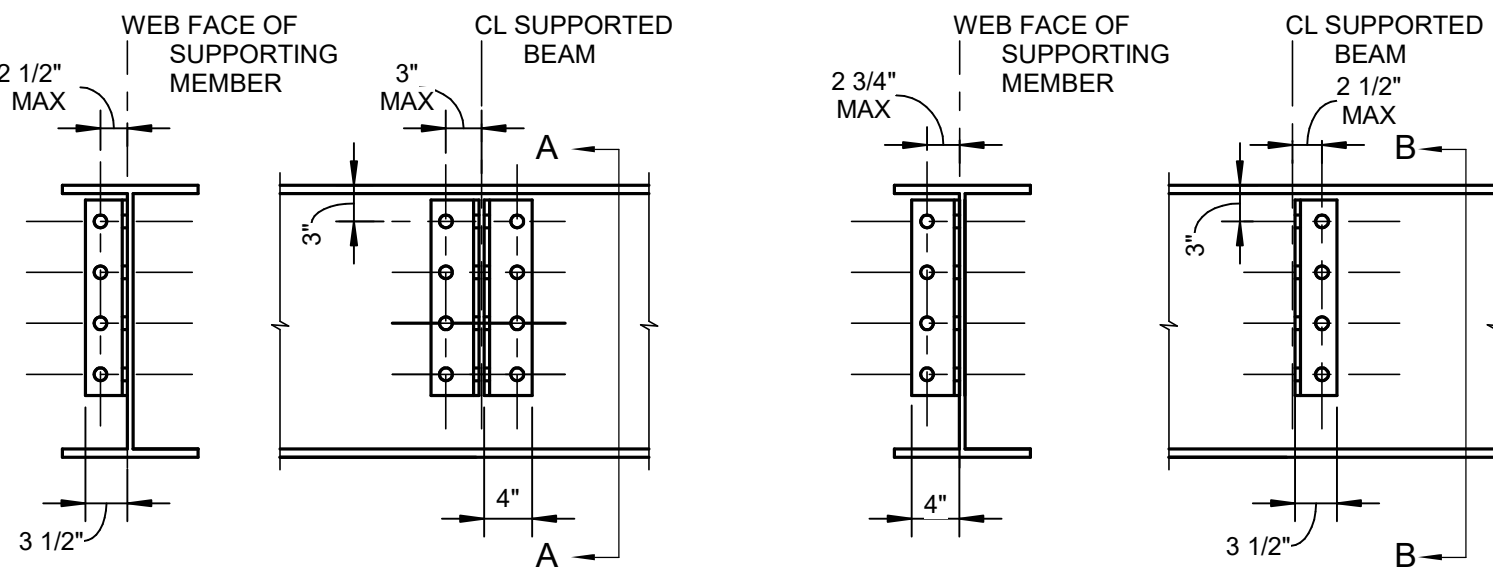
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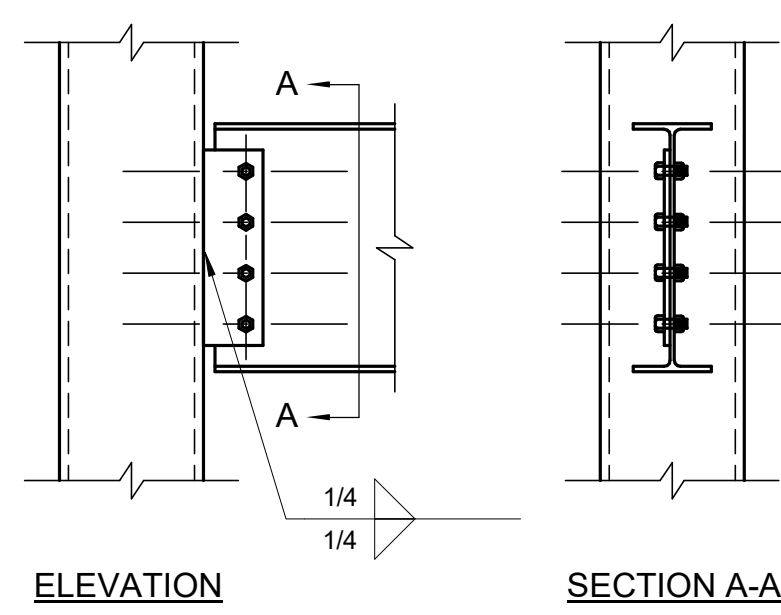
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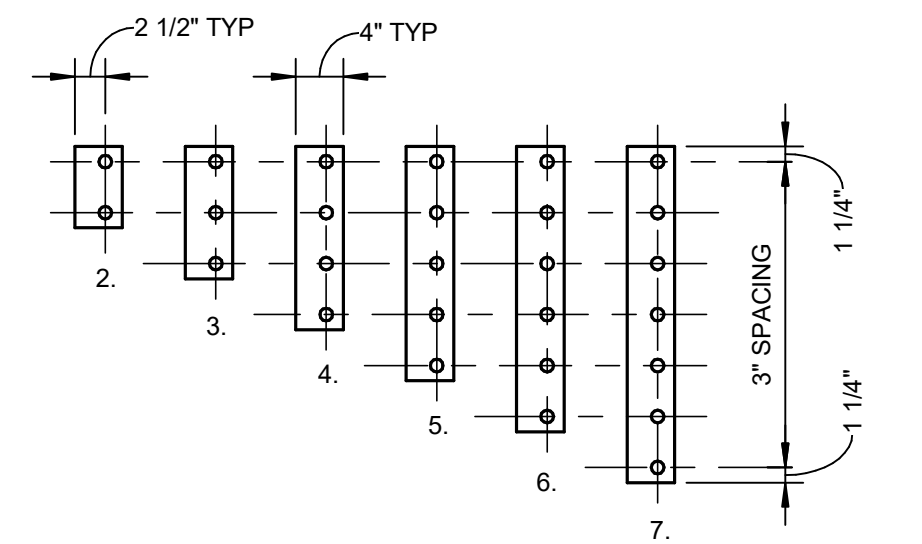


CONNECTION TABLE							
CONN TYPE	DOUBLE & SINGLE ANGLE CONNECTION		SINGLE PLATE CONNECTION		FACTORED LOAD CAPACITY		MINIMUM SUPPORTED MEMBER SIZE
	SIZE	LENGTH	SIZE	LENGTH	DOUBLE ANGLE	SINGLE ANGLE	
7	L4x3 1/2	1' - 8 1/2"	PL 5/16"x4"	1' - 8 1/2"	217k	112k	108k
6	L4x3 1/2	1' - 5 1/2"	PL 5/16"x4"	1' - 5 1/2"	176k	93k	89k
5	L4x3 1/2	1' - 2 1/2"	PL 5/16"x4"	1' - 2 1/2"	112k	74k	81k
4	L4x3 1/2	11 1/2"	PL 5/16"x4"	11 1/2"	64k	55k	62k
3	L4x3 1/2	8 1/2"	PL 5/16"x4"	8 1/2"	39k	35k	39k
2	L4x3 1/2	5 1/2"	PL 5/16"x4"	5 1/2"	23k	18k	23k
1	L6x4x3/8	2 1/2"	-	-	16k	-	-

- NOTES:
- 1) CONNECTION BOLTS SHALL BE 3/4"Ø A325-N BEARING TYPE. BOLT LIMIT STATE IN SINGLE SHEAR = 17.9 KIPS.
 - 2) CONNECTION ANGLE THICKNESS: 5/16" FOR DOUBLE ANGLE CONNECTIONS TYPE 2 THRU 7. 3/8" FOR SINGLE ANGLE CONNECTIONS TYPE 2 THRU 7.
 - 3) SINGLE PLATE CONNECTIONS ARE BASED ON FLEXIBLE CONNECTIONS WITH STANDARD HOLES.
 - 4) ANY CONNECTION THAT IS OUTSIDE THE LIMITS OF THE CONNECTION TABLE SHALL BE DESIGNED BY THE SPECIALTY ENGINEER LICENSED IN THE STATE OF PROJECT AND SHALL BE SUBMITTED AS SIGNED AND SEALED SHOP DRAWINGS AND CALCULATIONS FOR APPROVAL.
 - 5) ALL CONNECTIONS WITH AXIAL LOADS SHOWN ON PLAN SHALL BE DESIGNED BY THE SPECIALTY ENGINEER LICENSED IN THE STATE OF THE PROJECT AND SHALL BE SUBMITTED AS SIGNED AND SEALED SHOP DRAWINGS AND CALCULATIONS FOR APPROVAL.
 - 6) BOLTED/WELDED SINGLE AND DOUBLE ANGLE CONNECTIONS MAY BE USED PROVIDED THAT THE WELDS ARE SIZED TO RESIST THE LOADS SHOWN IN ACCORDANCE WITH AISC STANDARDS.

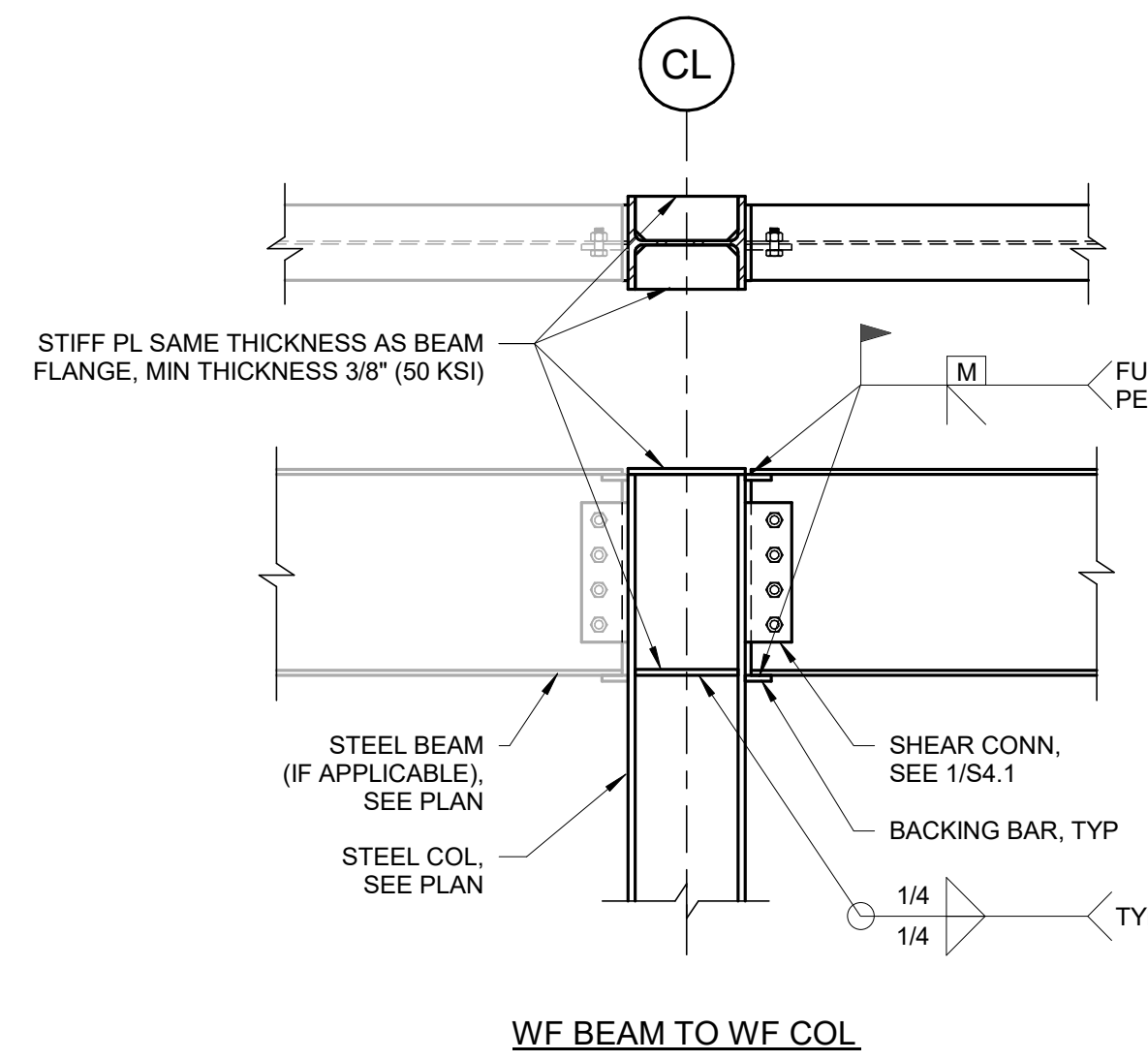


COLUMN SIZE	MINIMUM WALL THICKNESS
HSS4x4	1/4"
HSS5x5	1/4"
HSS6x6	1/4"
HSS7x7	1/4"
HSS8x8	1/4"
HSS9x9	5/16"
HSS10x10	5/16"
HSS12x12	3/8"
HSS14x14	1/2"
HSS16x16	1/2"

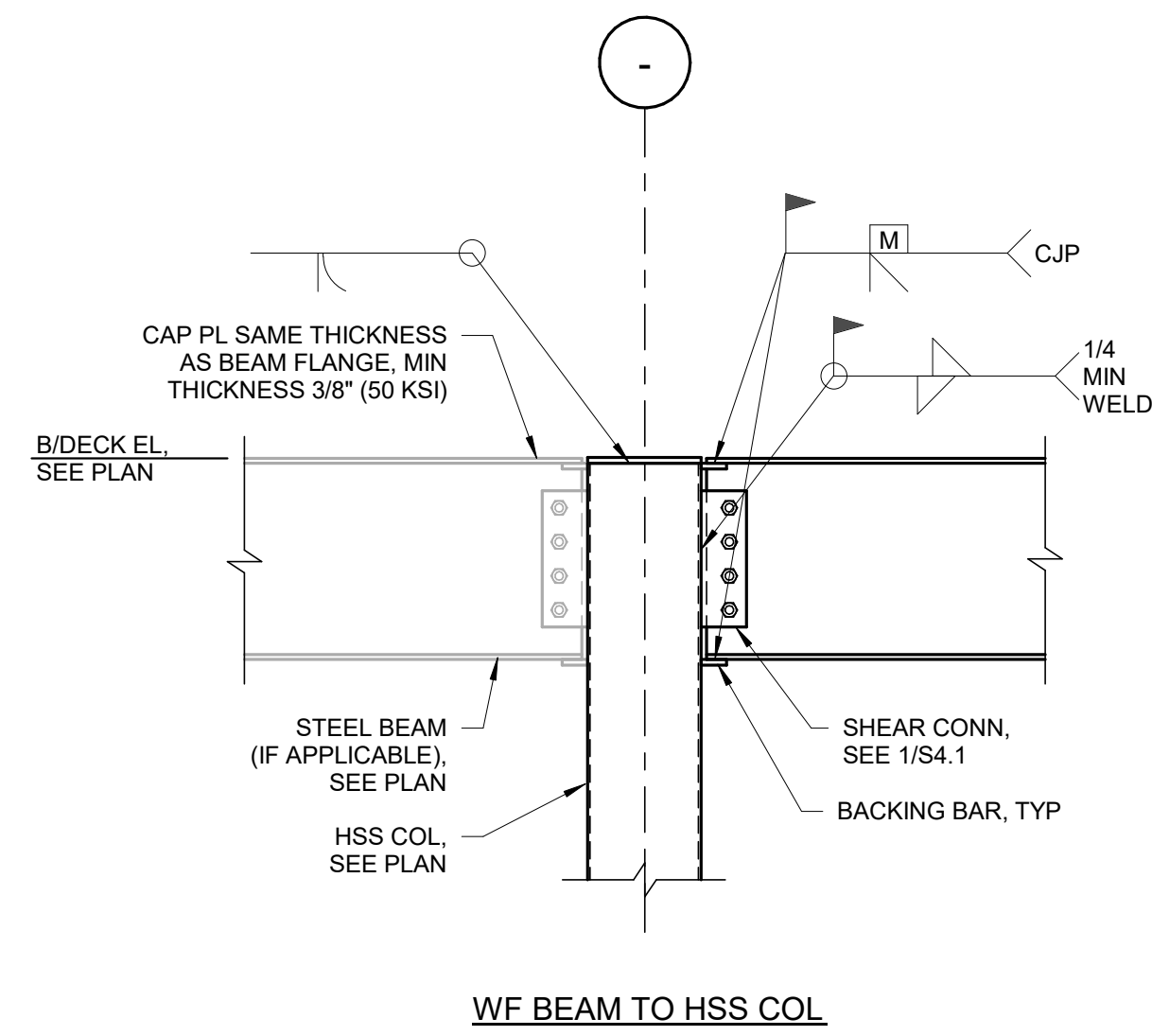


CONNECTION SCHEDULE			
CONN TYPE	FACTORED LOAD CAPACITY	SINGLE PLATE SIZE	MINIMUM BEAM SIZE
7	108K	PL 5/16"x4"x20 1/2"	W36, W33
6	89K	PL 5/16"x4"x17 1/2"	W30, W27
5	81K	PL 5/16"x4"x14 1/2"	W24, W21
4	62K	PL 5/16"x4"x11 1/2"	W18, W16
3	43K	PL 5/16"x4"x8 1/2"	W14, C15, W12, C12
2	24K	PL 5/16"x4"x5 1/2"	W10, C10, W8, C8

- NOTES:
- 1) BOLTS SHALL BE 3/4"Ø A325-N BEARING TYPE. BOLT LIMIT STATE IN SINGLE SHEAR = 17.9 KIPS.
 - 2) WELDING MAY BE USED IN LIEU OF BOLTING. WELDS SHALL BE CAPABLE OF RESISTING LOADS SHOWN ABOVE FOR THIS SCHEDULE TO BE VALID.
 - 3) COLUMN THICKNESS SHALL BE THE MINIMUM TABULATED ABOVE FOR THIS SCHEDULE TO BE VALID.
 - 4) TABLE VALUES ARE FOR UNCOUPED BEAMS.

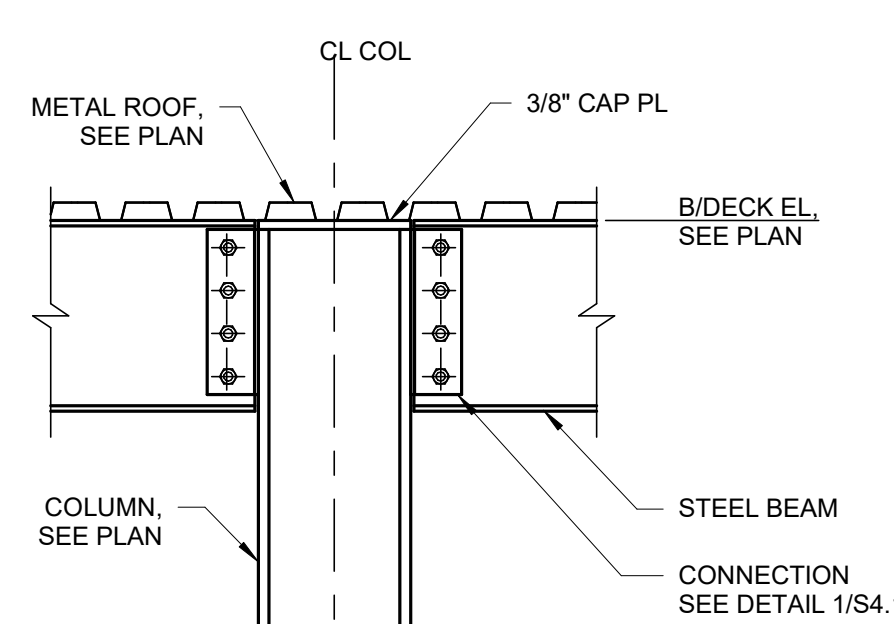
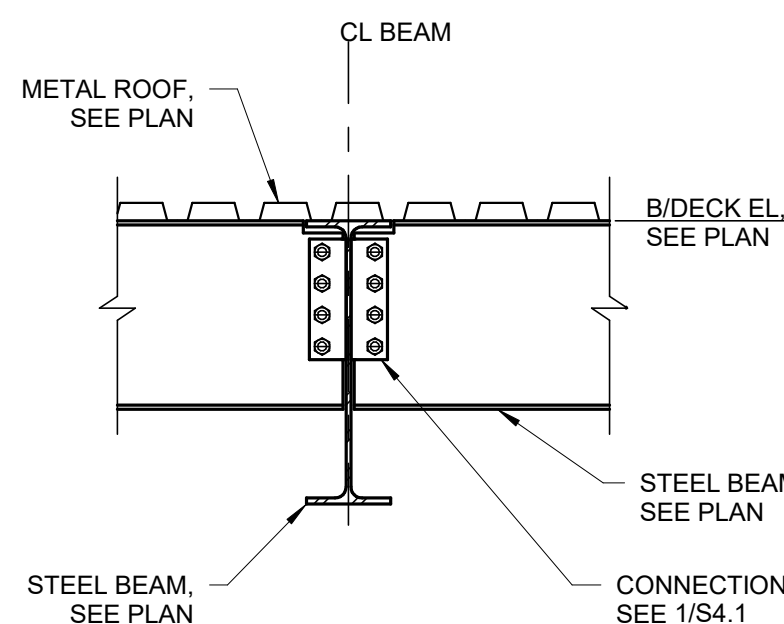


NOTE: MOMENT CONNECTIONS SHOWN ARE FULL PENETRATION WELDS. IF ALTERNATE MOMENT CONNECTION DETAILS ARE DESIRED THEY SHALL BE DESIGNED BY A REGISTERED PROFESSIONAL ENGINEER LICENSED IN THE STATE OF THE PROJECT AND SHALL BE SUBMITTED FOR REVIEW AS SIGNED/SEALED SHOP DRAWINGS & CALCULATIONS.



3 TYP BEAM/COLUMN MOMENT CONN

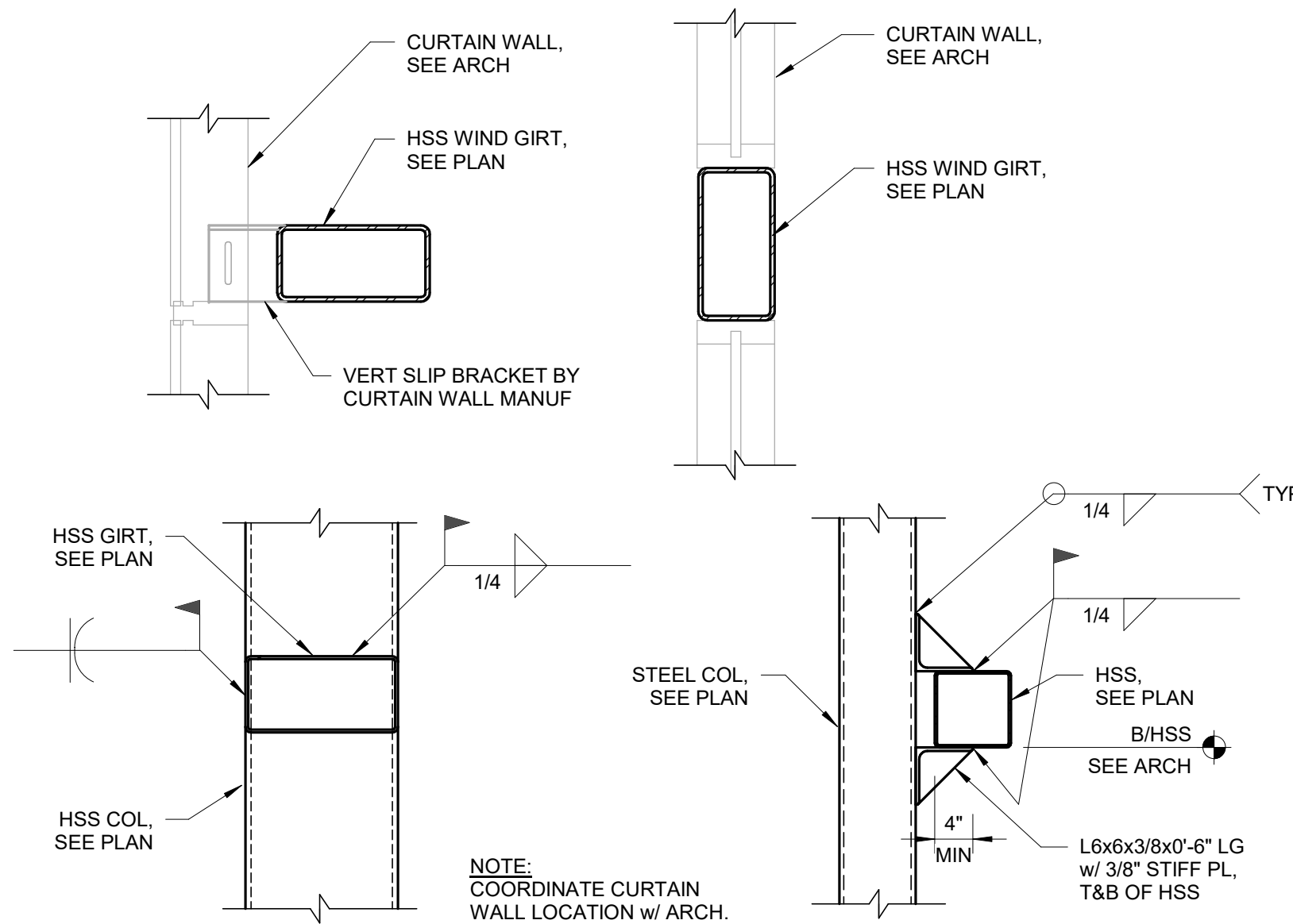
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NOTE: BEAMS IN PERPENDICULAR DIRECTION NOT SHOWN FOR CLARITY; SIM CONNECTIONS.

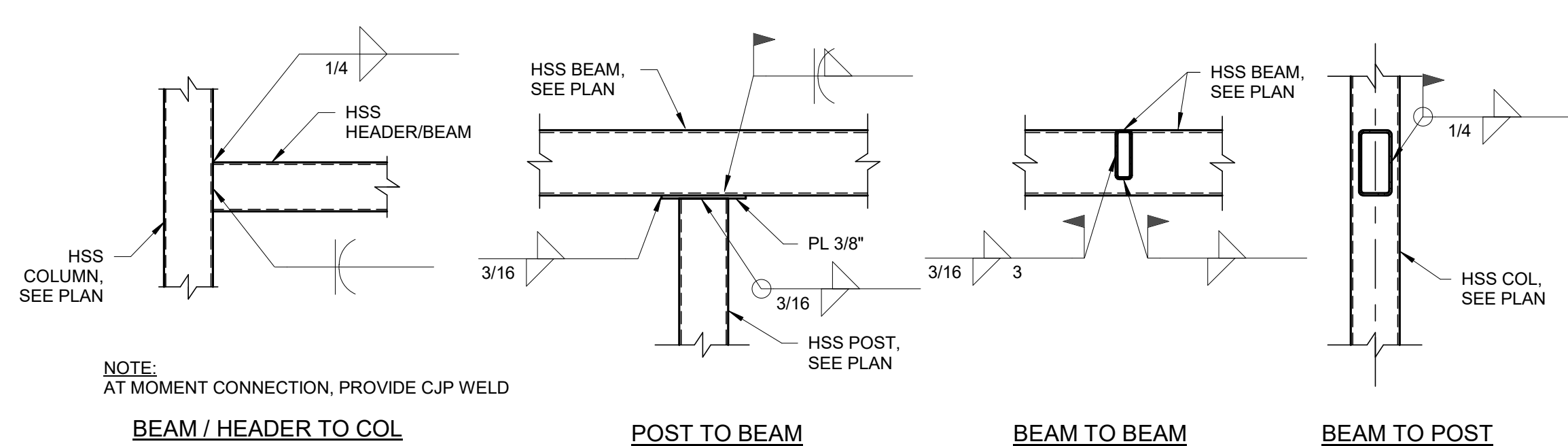
1 BEAM TO GIRDER/WF COL CONNECTIONS

SCALE: NTS



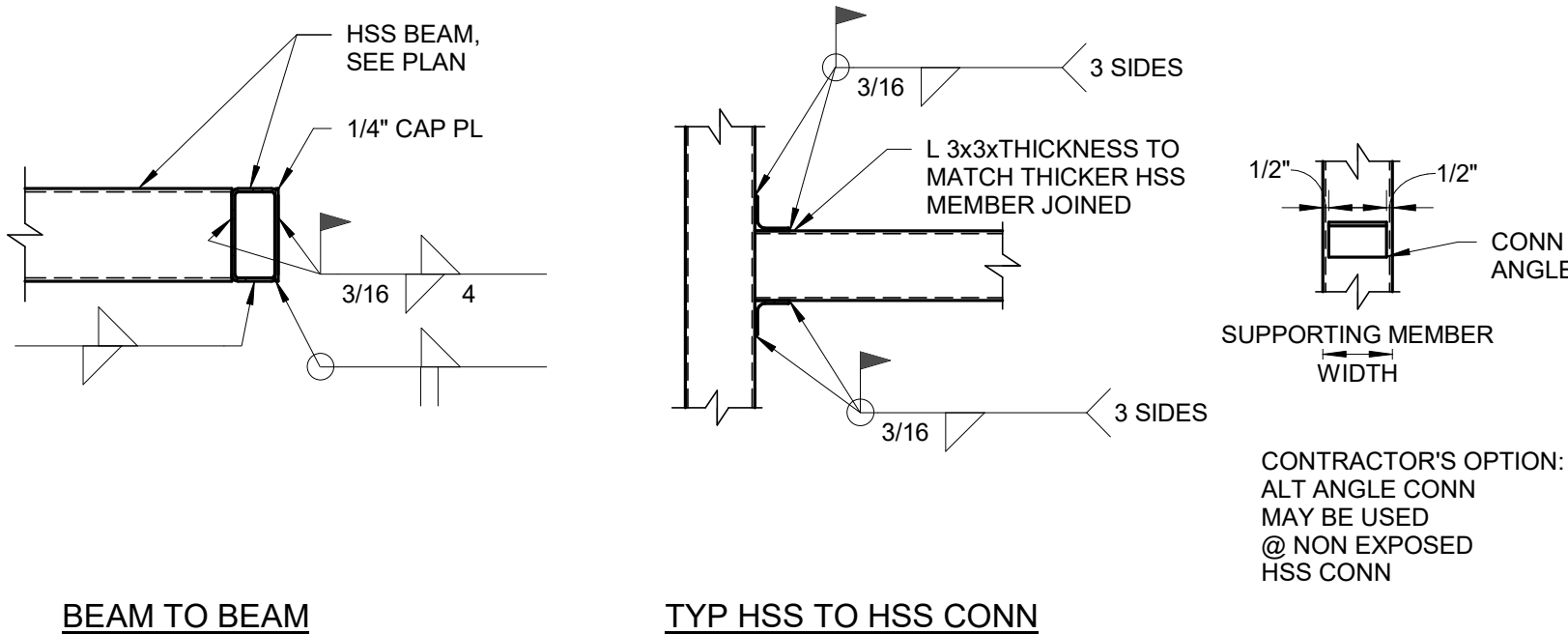
2 BEAM TO SQUARE HSS COL CONN

SCALE: NTS



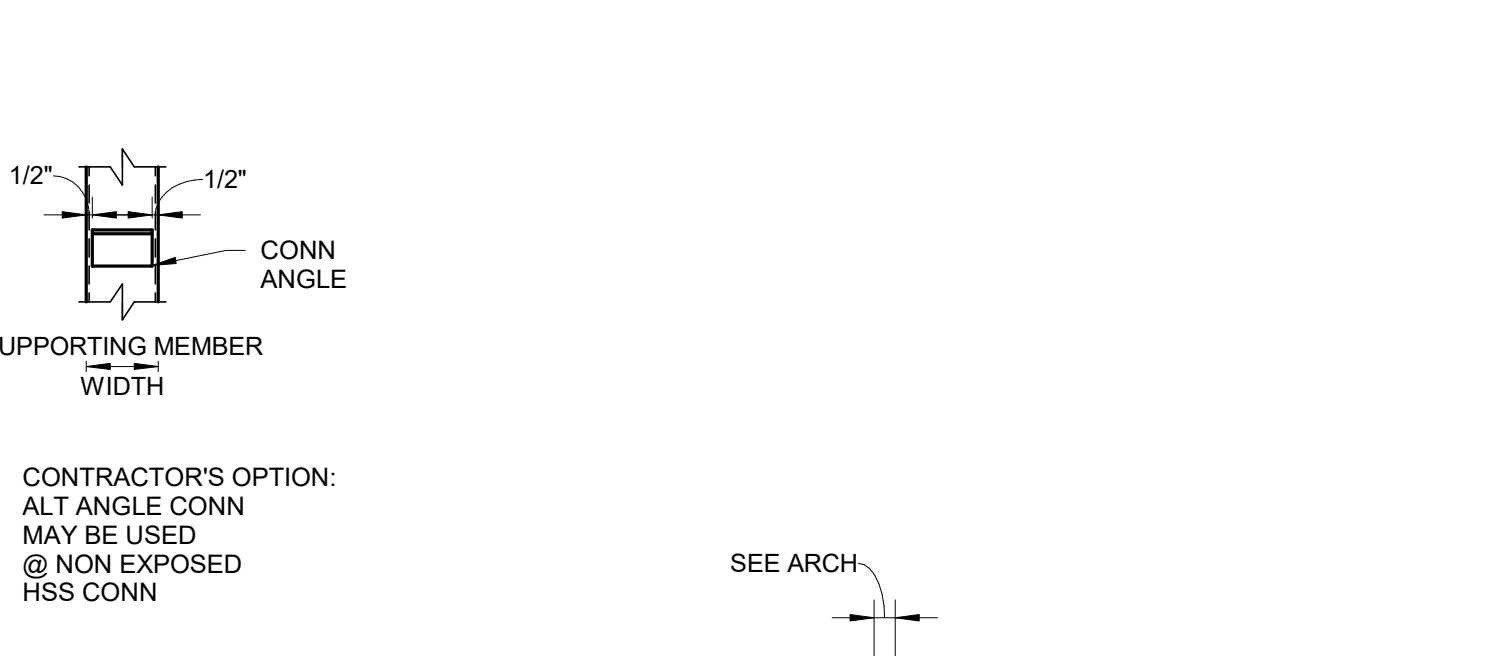
4 TYP ROOF BEAM CONN

SCALE: NTS



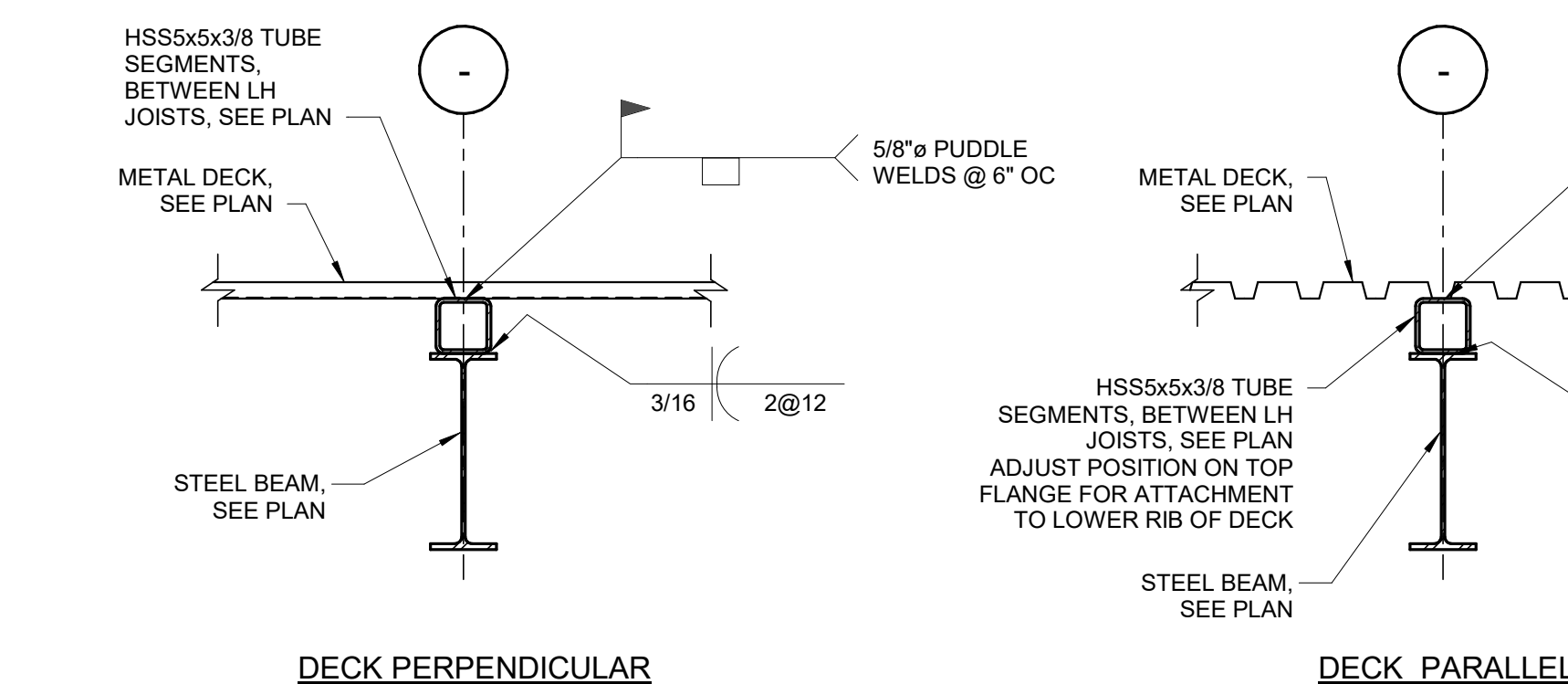
5 STEEL BEAM TO COLUMN

SCALE: NTS



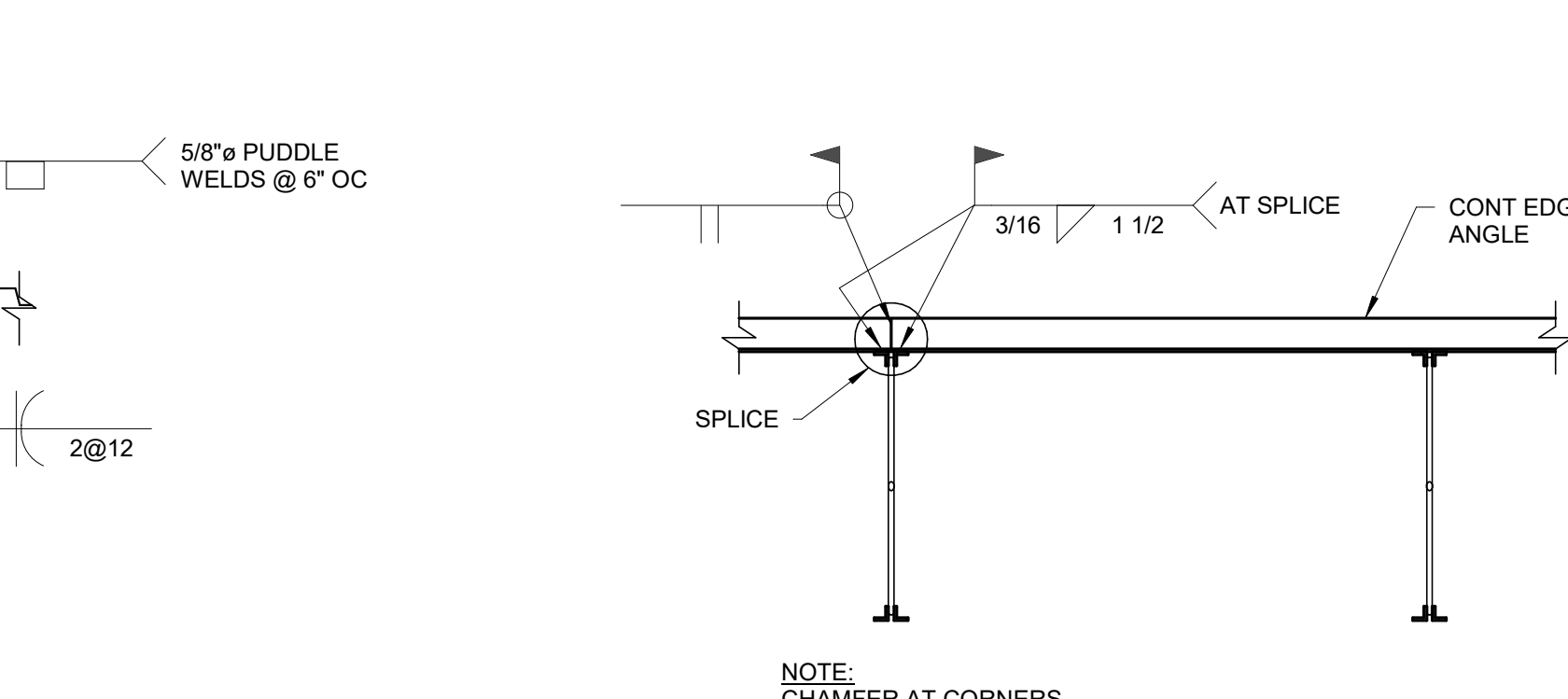
6 CURTAIN WALL ATTACHMENT TO HSS WIND GIRT

SCALE: NTS



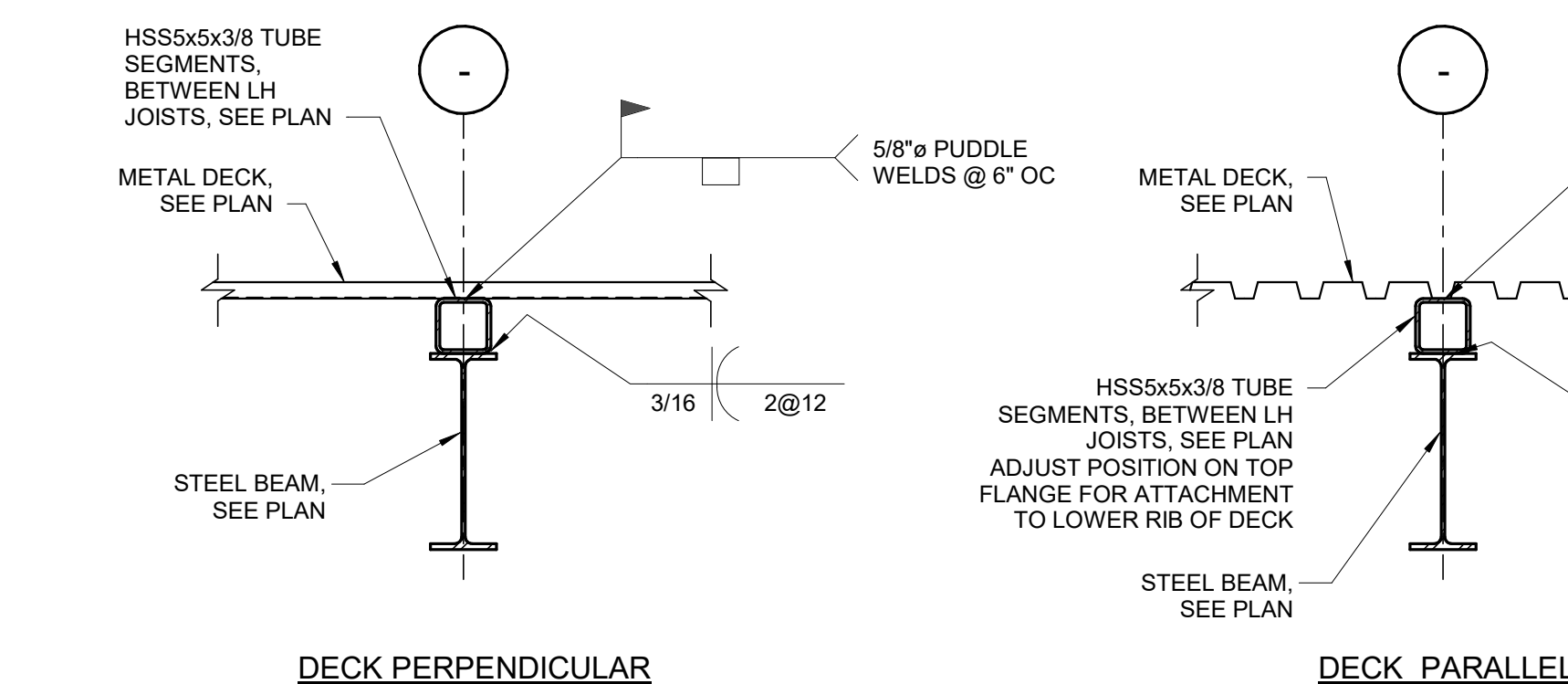
7 TYP HSS TO HSS CONNECTION

SCALE: NTS



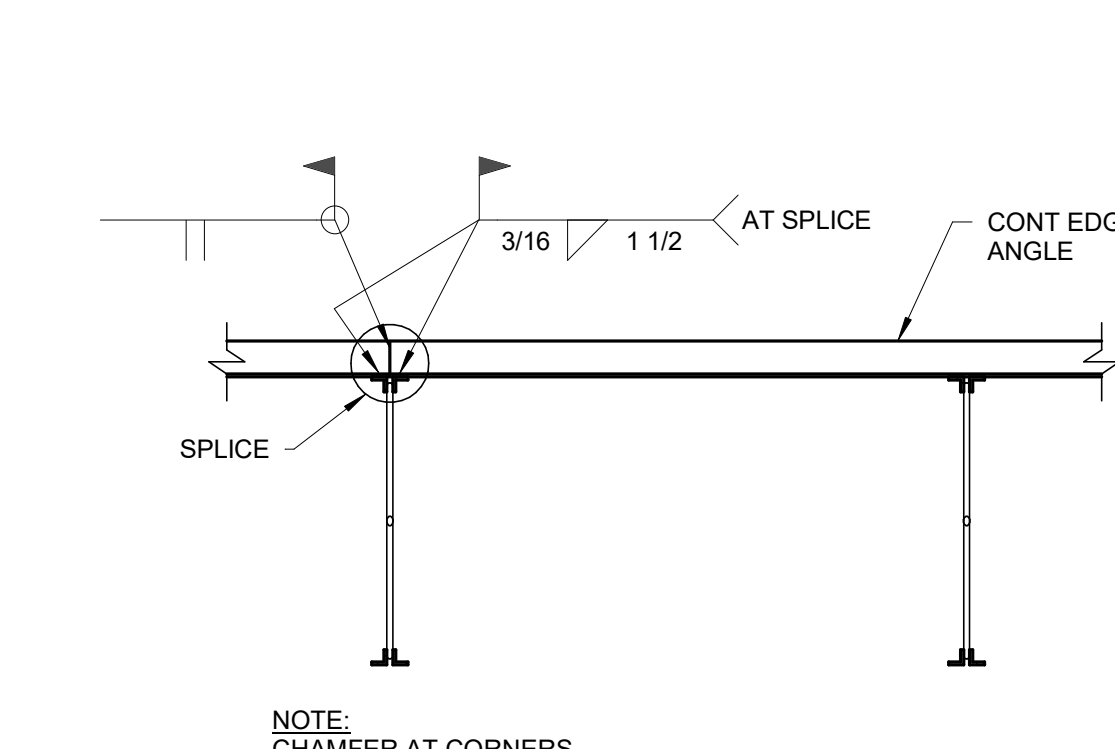
8 DECK ATTACHMENT @ MOMENT FRAME

SCALE: NTS



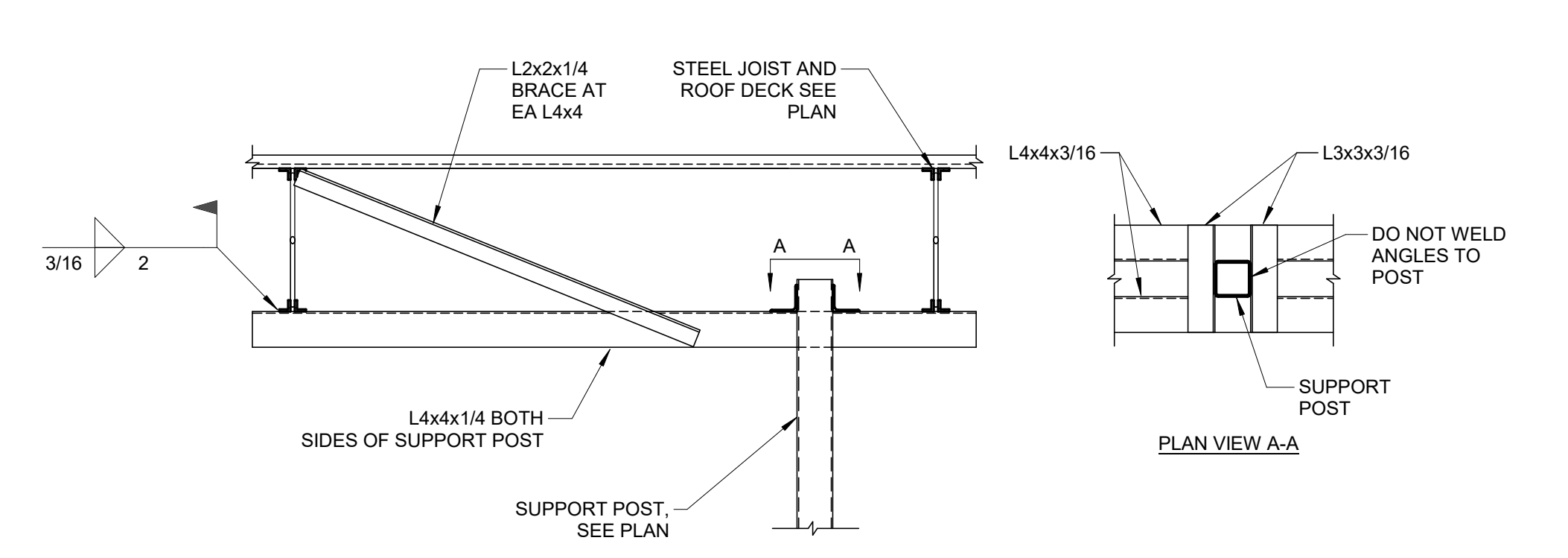
9 EDGE ANGLE SPLICE

SCALE: NTS



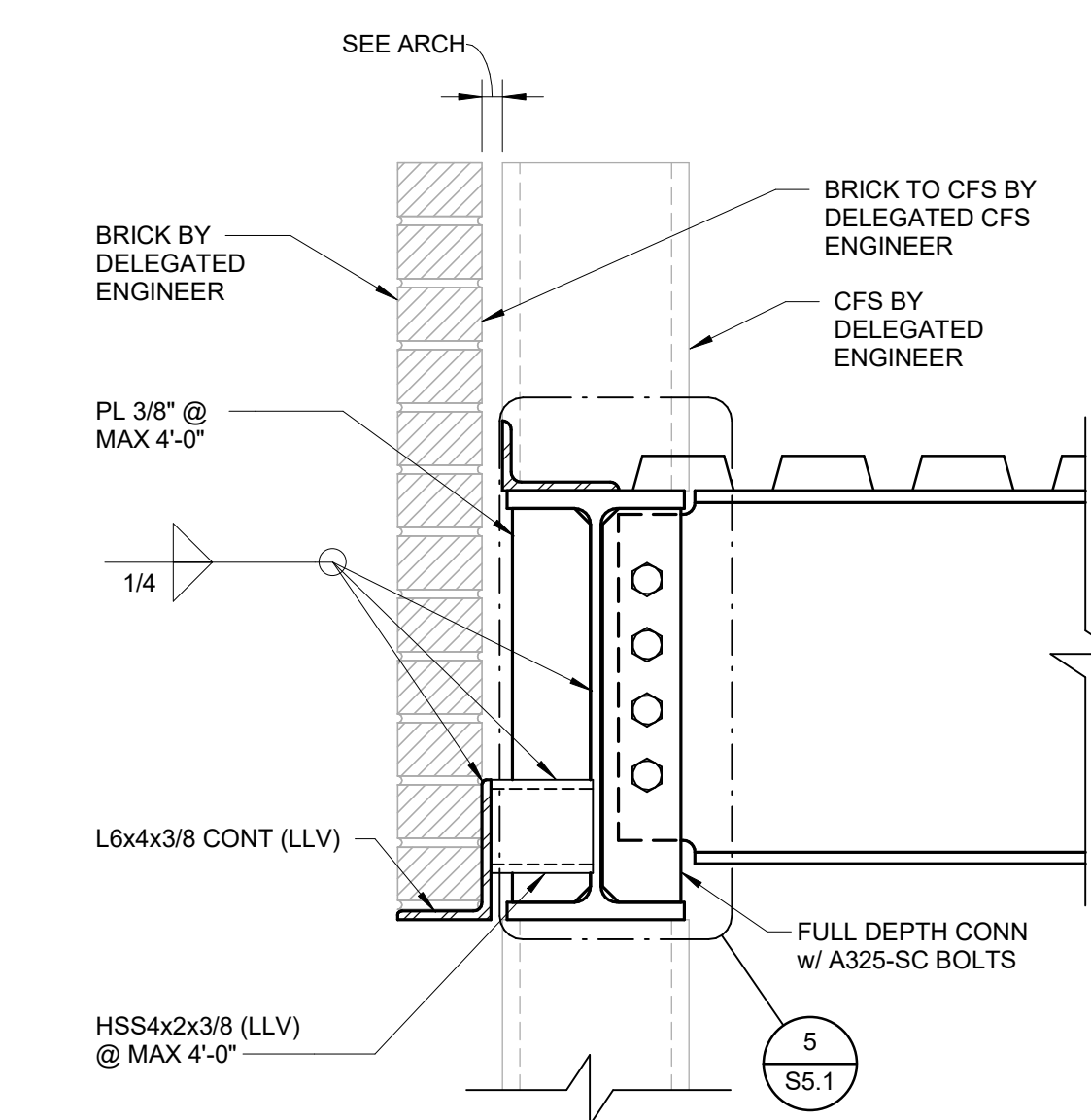
10 SECTION AT COILING DOOR

SCALE: NTS

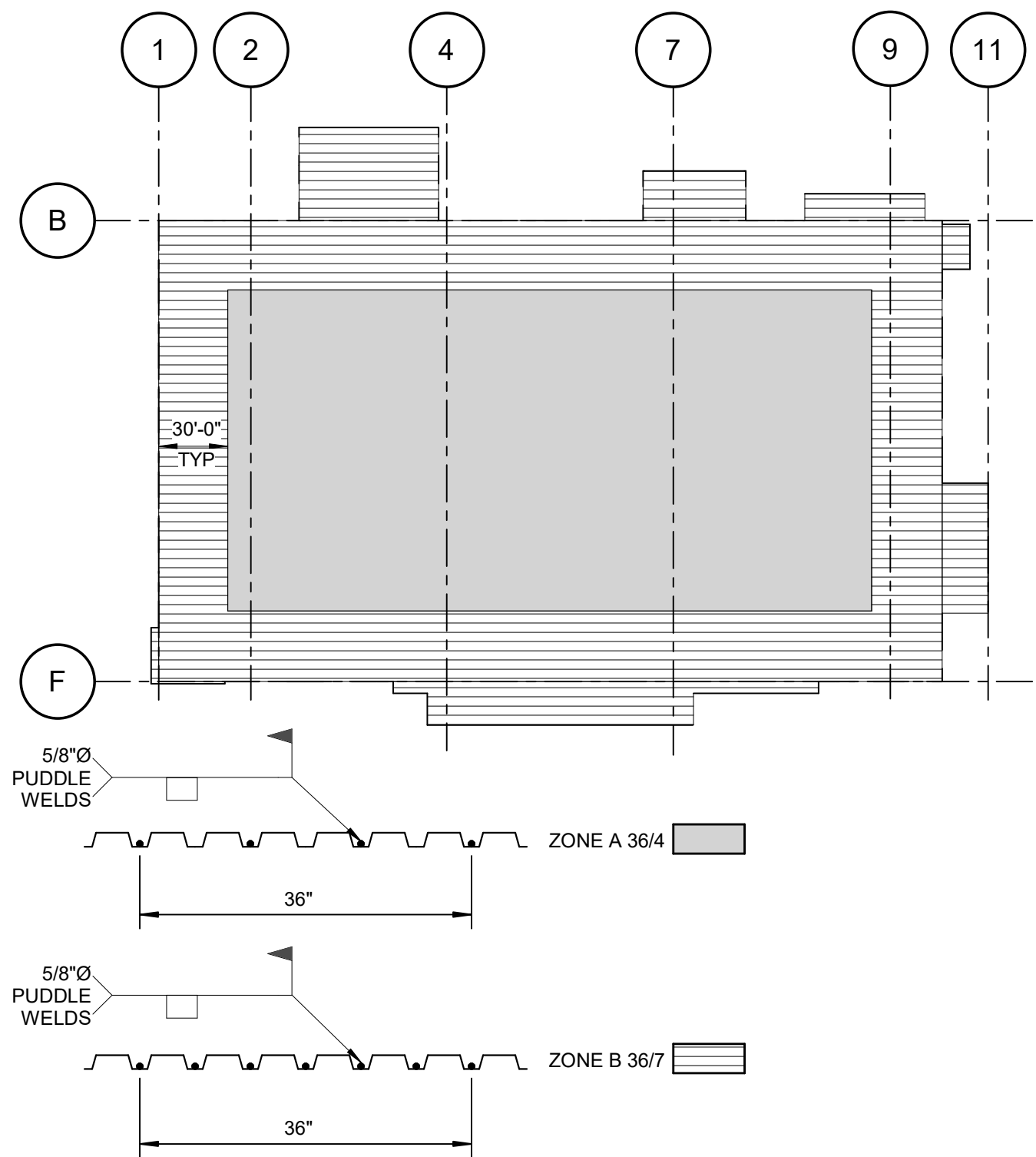


11 ENTRY PARAPET DETAIL

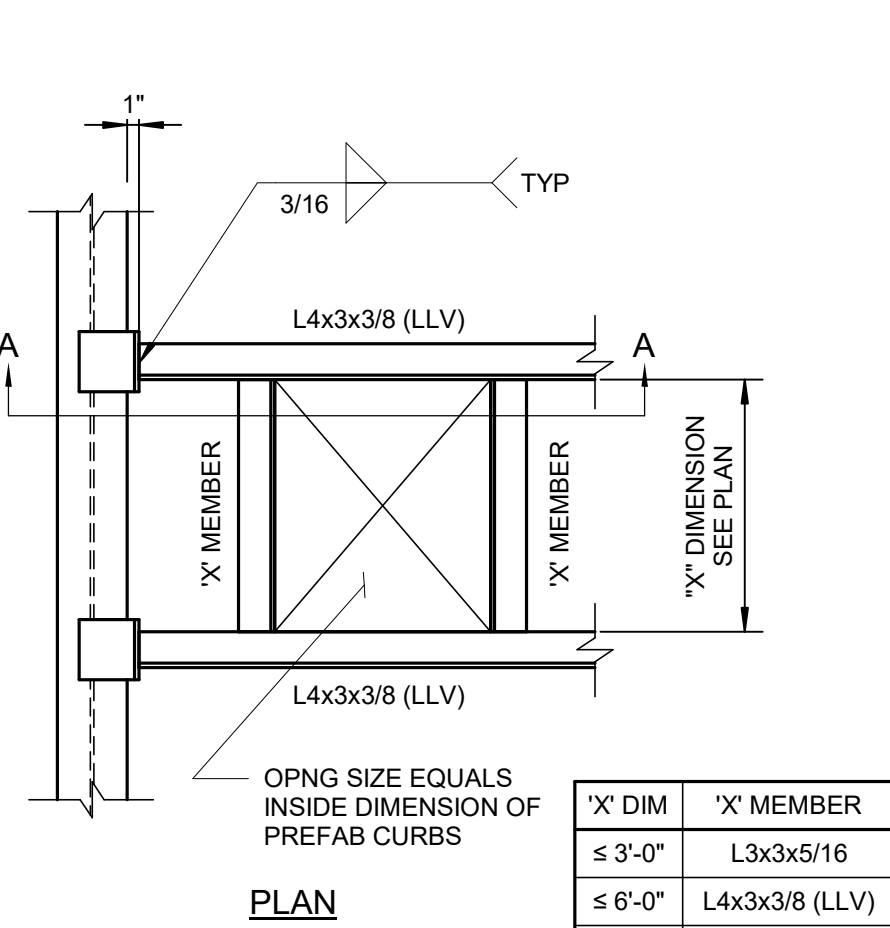
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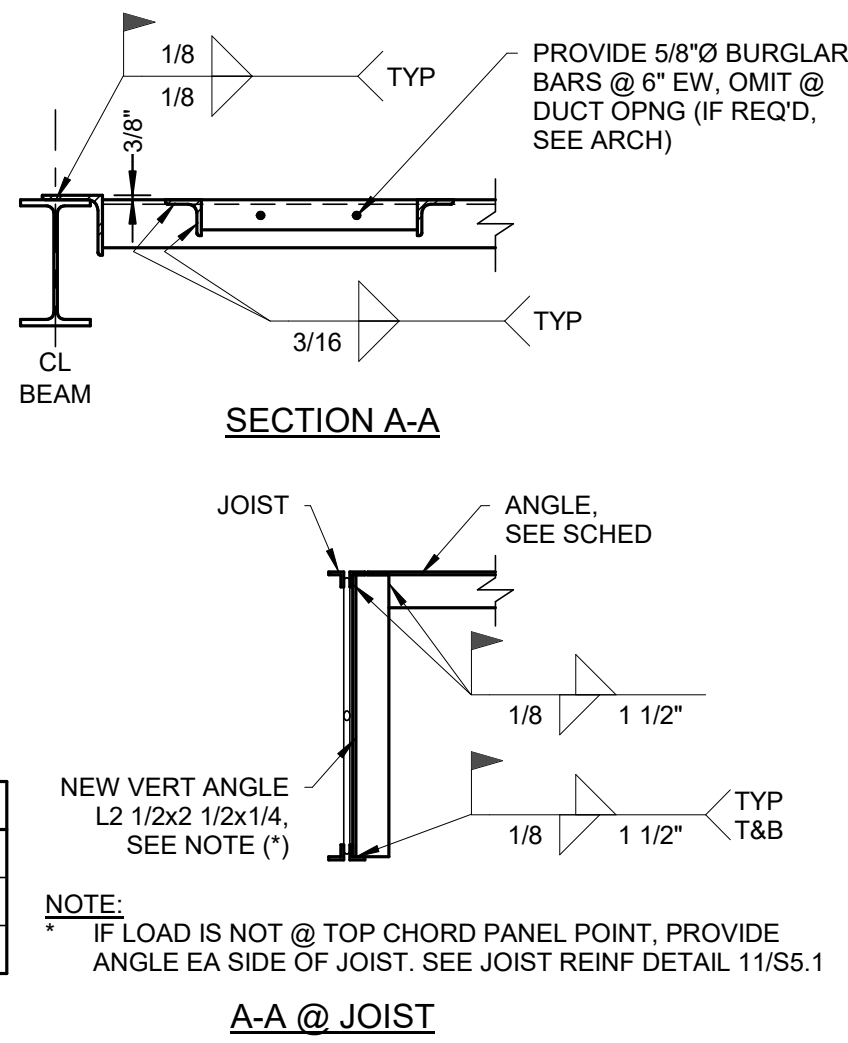
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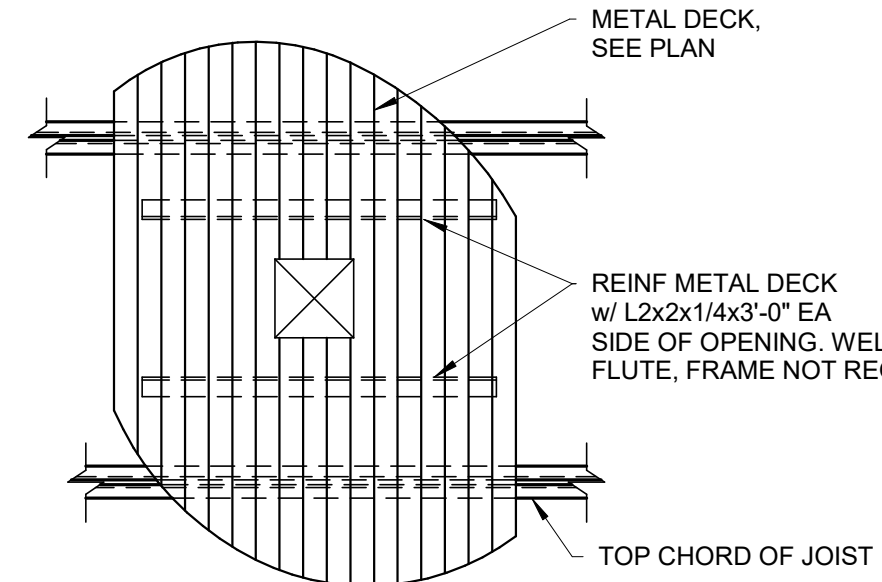
- NOTES:
- 1) ATTACHMENT AT SUPPORTS SHALL BE WELDS.
 - 2) ATTACHMENT AT SIDE LAPS SHALL BE #10 TEK SCREWS.
 - 3) ATTACHMENT AROUND OPENINGS SHALL BE WELDS @ 6" OC.
 - 4) ATTACHMENT AT SIDE SUPPORTS ALONG PERIMETER SHALL BE WELDS @ 6" OC.
 - 5) MINIMUM ENDLAP 3", TYP.
 - 6) SIDELAPS
ZONE A - 6 SIDELAPS PER SPAN
ZONE B - 8 SIDELAPS PER SPAN



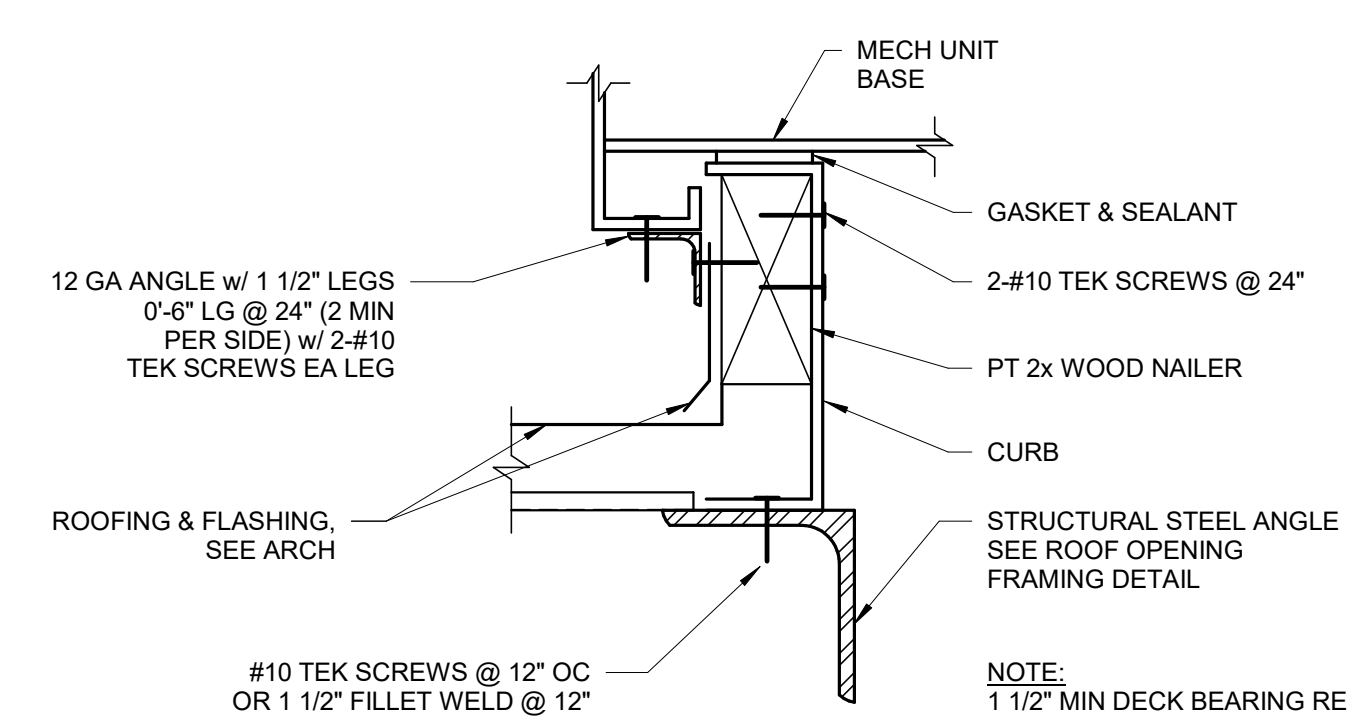
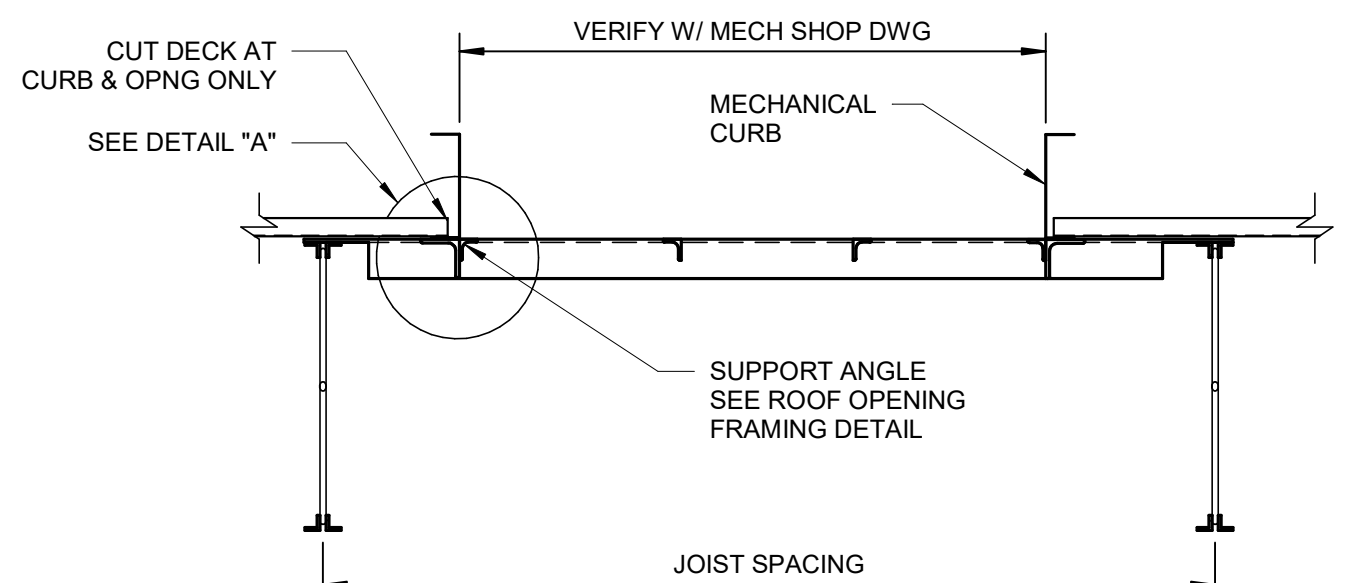
- PLAN
- | "X" DIM | "X" MEMBER |
|---------|----------------|
| ≤ 3'-0" | L3x3x5/16 |
| ≤ 6'-0" | L4x3x3/8 (LLV) |
| ≤ 9'-0" | L4x4x3/8 |
- NOTES:
- 1) VERIFY ALL DIM w/ SUPPLIER BEFORE FABRICATION.
 - 2) INSTALL PREFAB CURBS DIRECTLY ON STEEL SUPPORT ANGLES.
 - 3) ROOF DECK IS NOT REQUIRED INSIDE MECH UNIT CURBS.
 - 4) AT OPENINGS 6" TO 12" PROVIDE L2x2x1/4x3'-0" LG PERPENDICULAR TO DECK SPAN. 5/8" WELD TO EA FLUTE.



- A-A @ JOIST
- NOTES:
- 1) IF LOAD IS NOT @ TOP CHORD PANEL POINT, PROVIDE ANGLE EA SIDE OF JOIST. SEE JOIST REINF DETAIL 11/S5.1

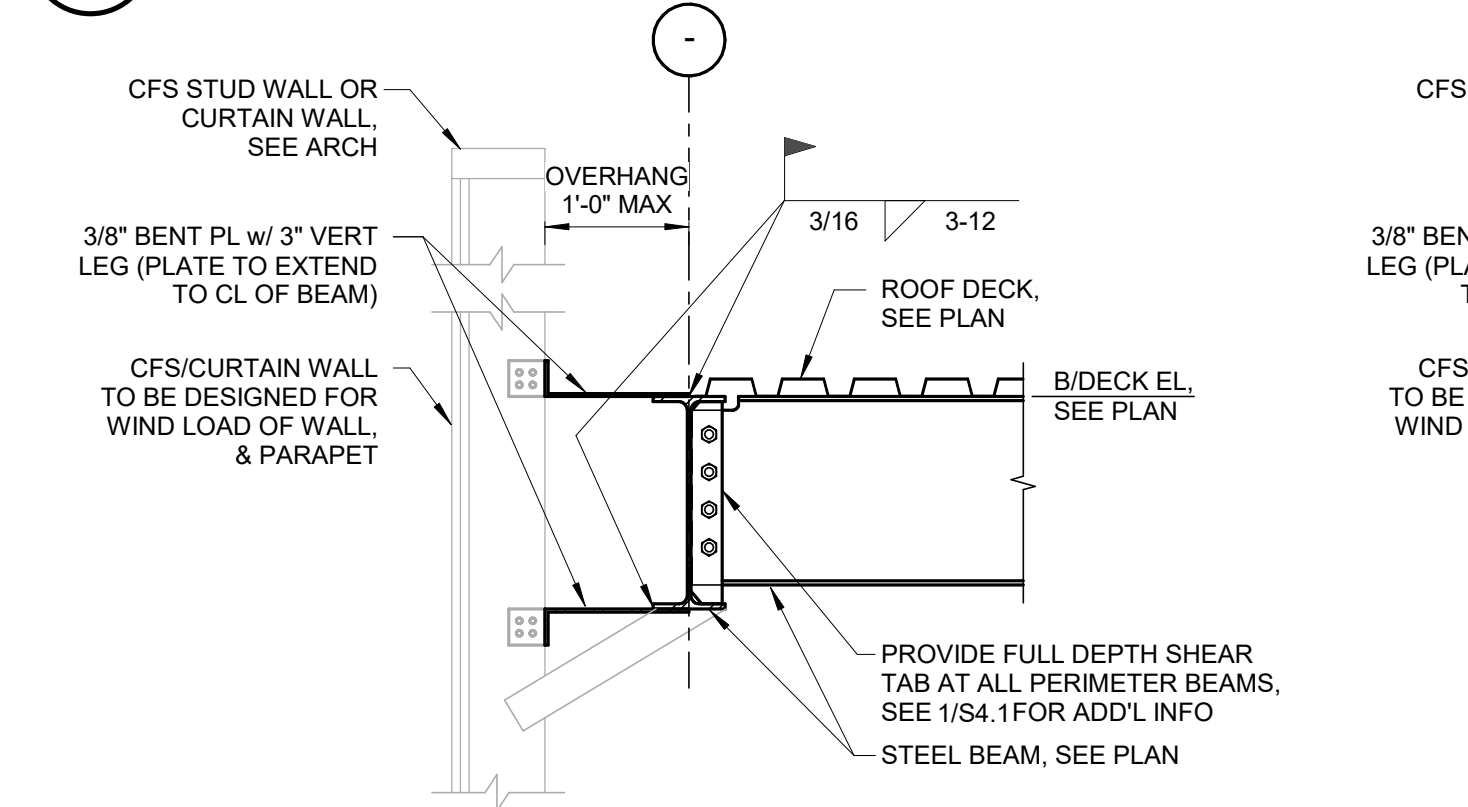


- NOTES:
- 1) SMALLER THAN 12" SQ & LARGER THAN 6" SQ.
 - 2) WELD TO BE 5/8" PUDDLE TYPE.

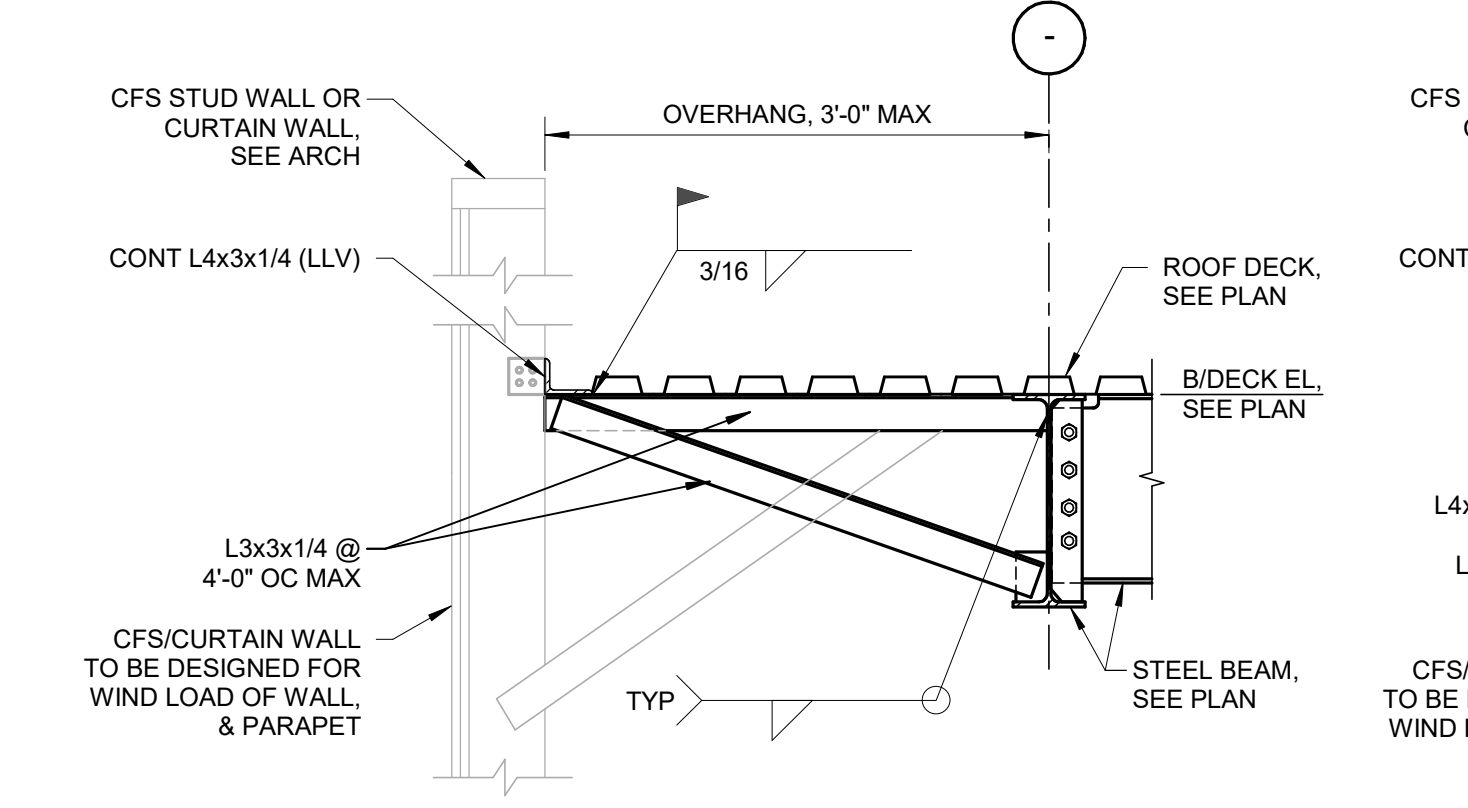


- NOTE: 1 1/2" MIN DECK BEARING REQ'D.

1 TYP WELD PATTERN FOR ROOF DECK

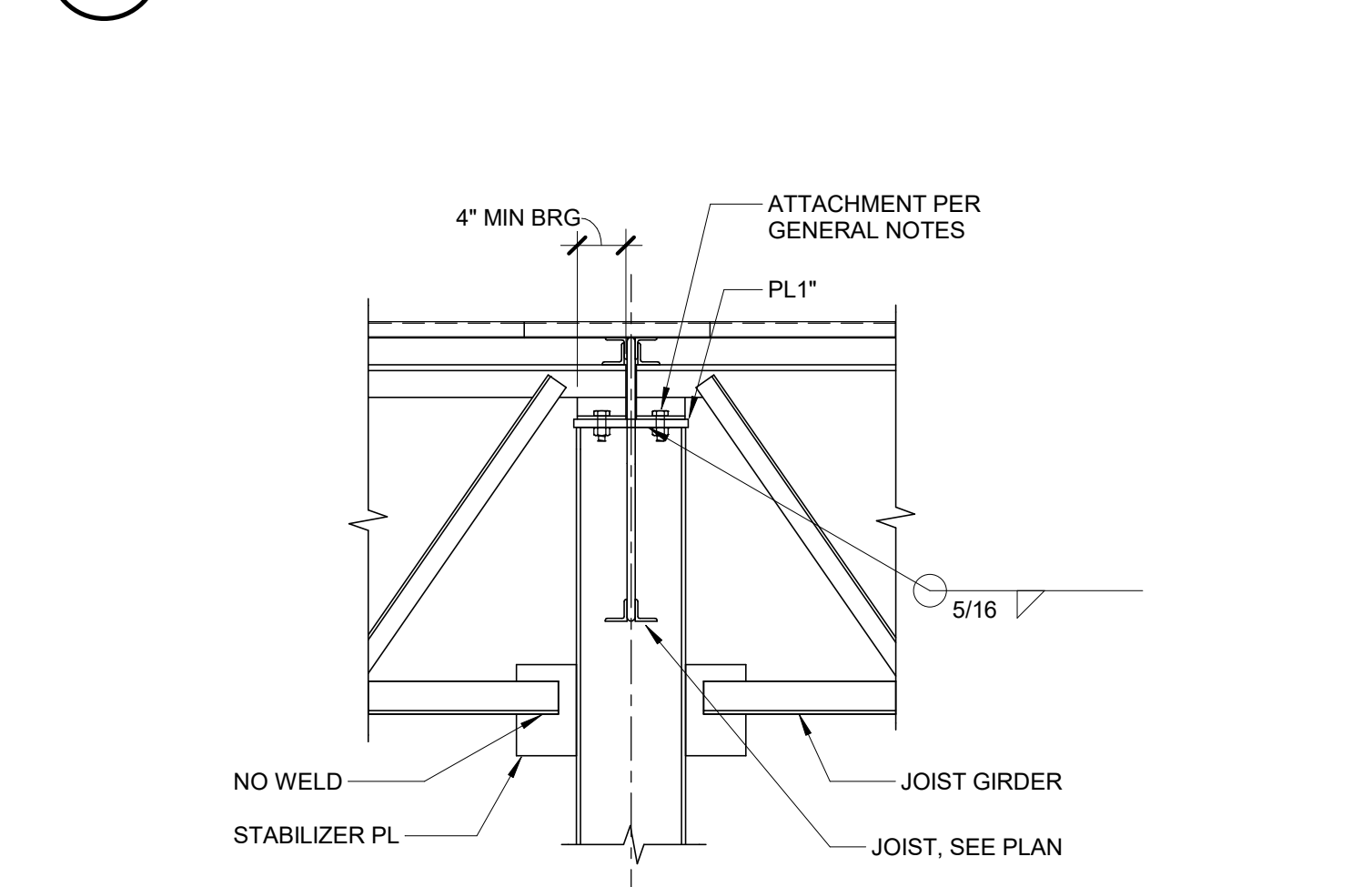


- OVERHANG ≤ 1'-0" @ STEEL BEAMS



- OVERHANG ≤ 3'-0" @ STEEL BEAMS

5 CANTILEVER ROOF DECK EDGE DETAIL

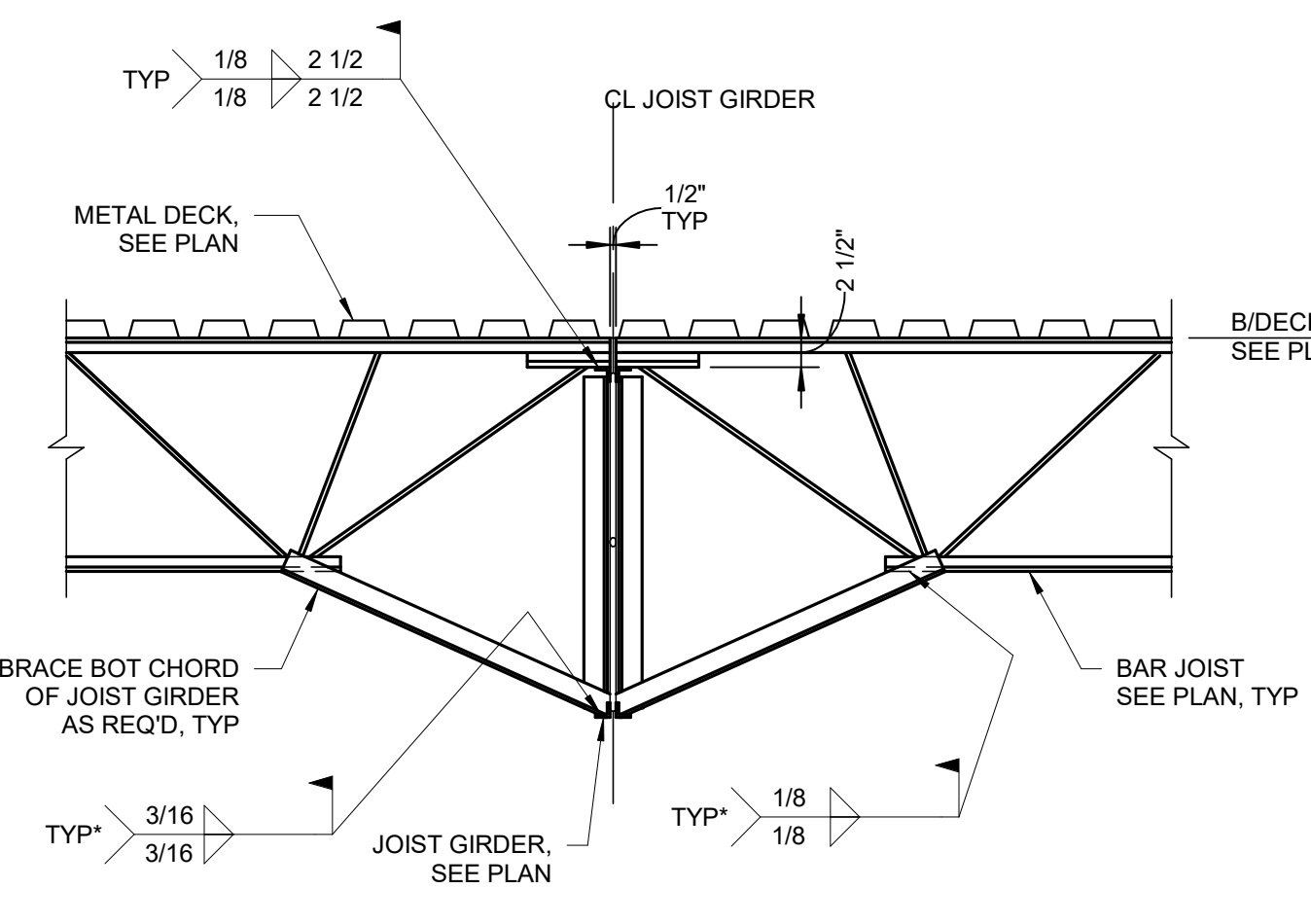


7 INT JOIST TO GIRDER W/ BRACE

- SCALE: NTS

8 INT JOIST TO COLUMN W/ BRACE

- SCALE: NTS

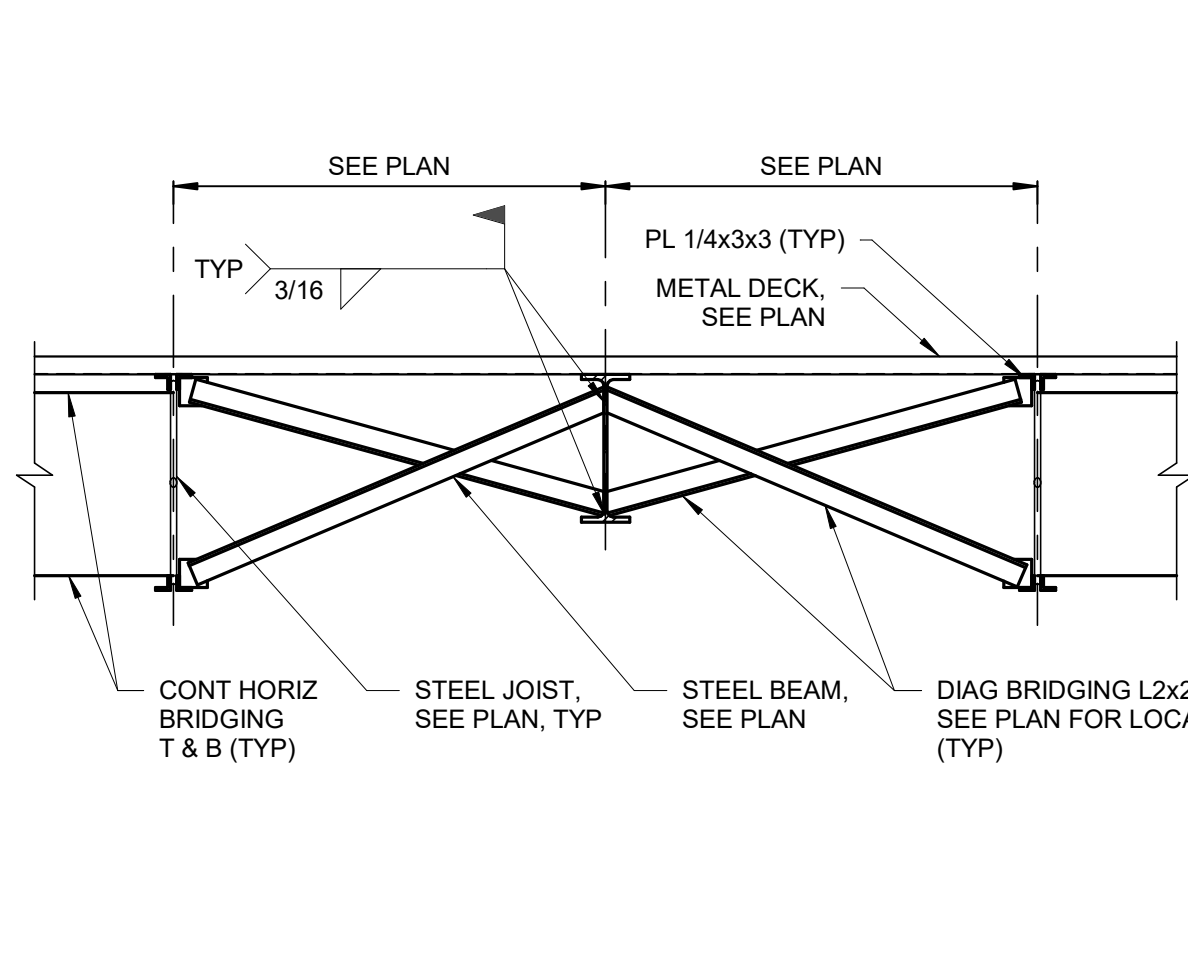


- NOTES:
- 1) PROVIDE 1/2" ERECTION BOLTS AS REQ'D BY OSHA.
 - 2) MAKE CONNECTION AFTER DEAD LOAD IS APPLIED.

9 INT JOIST TO GRIDER W/ BRACE

- SCALE: NTS

6 TYP ROOF BEAM EDGE CONN

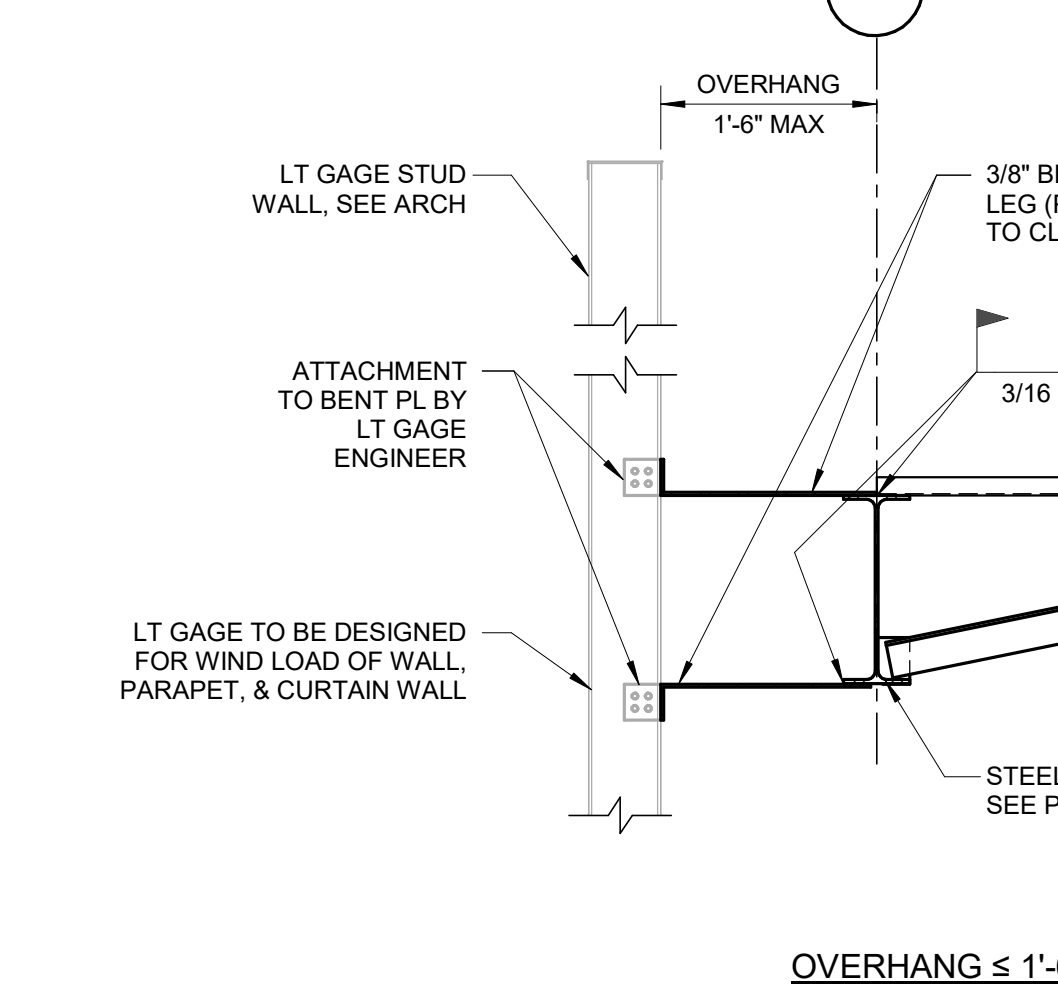


10 JOIST BRIDGING TO BEAM

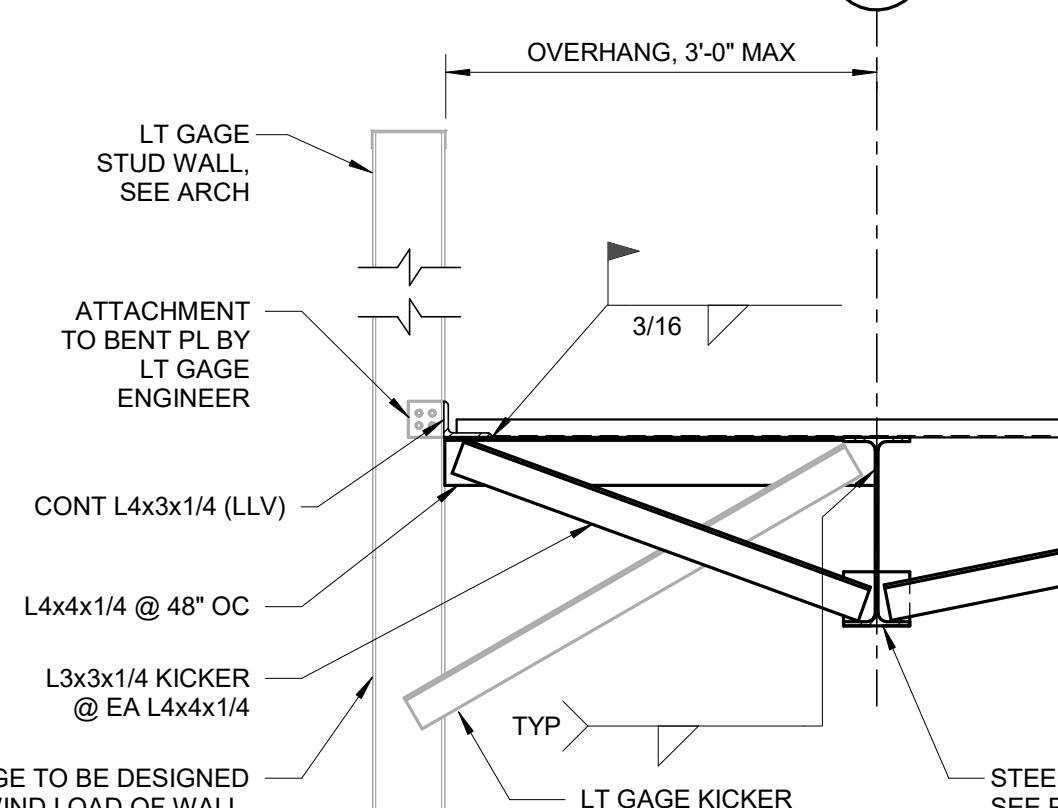
- SCALE: NTS

4 ROOF TOP UNIT ATTACHMENT

- SCALE: NTS

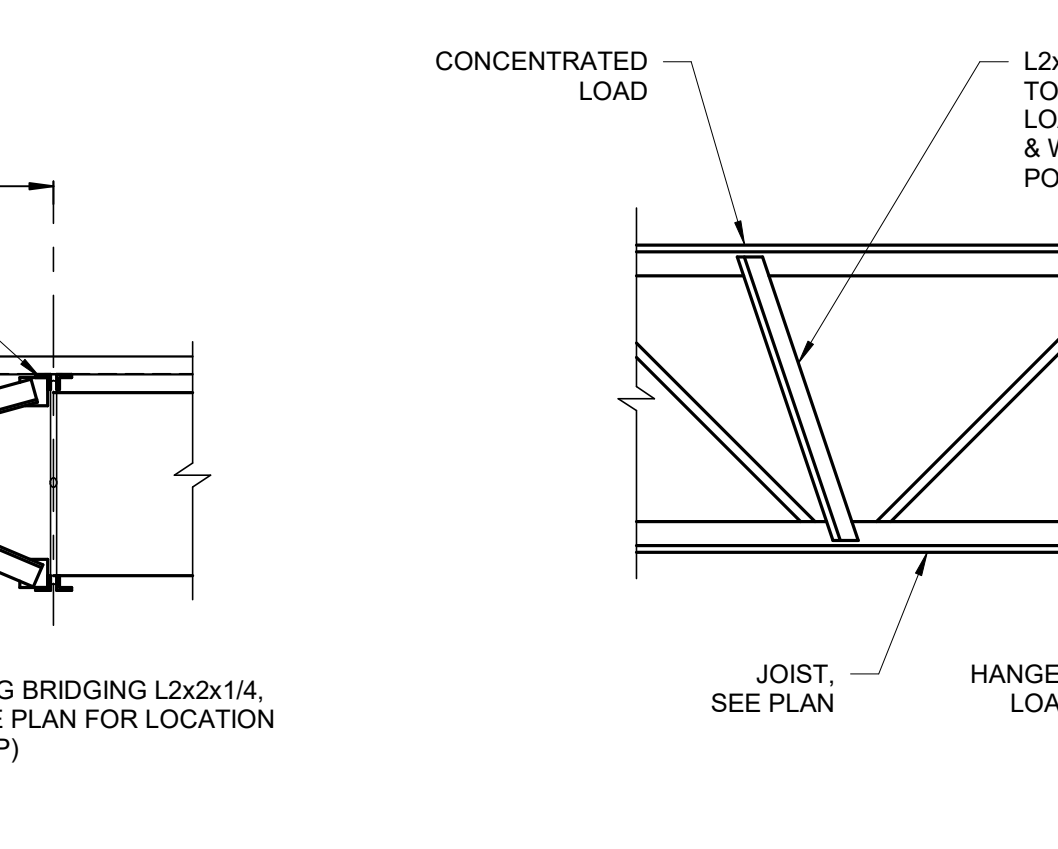


- OVERHANG ≤ 1'-6"



- OVERHANG ≤ 3'-0"

- NOTE: AT SIM, JOISTS ARE STEEL BEAMS PER PLAN.

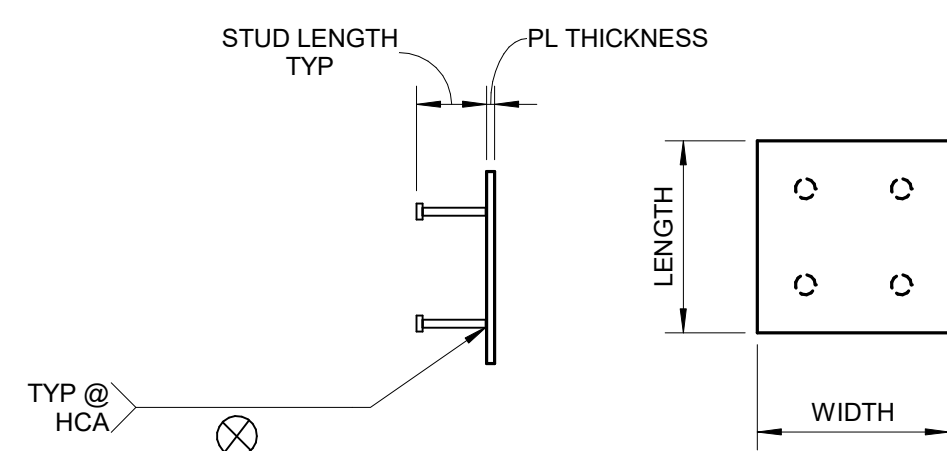


- SCALE: NTS

- 11 JOIST REINF FOR CONCENTRATED LOADS

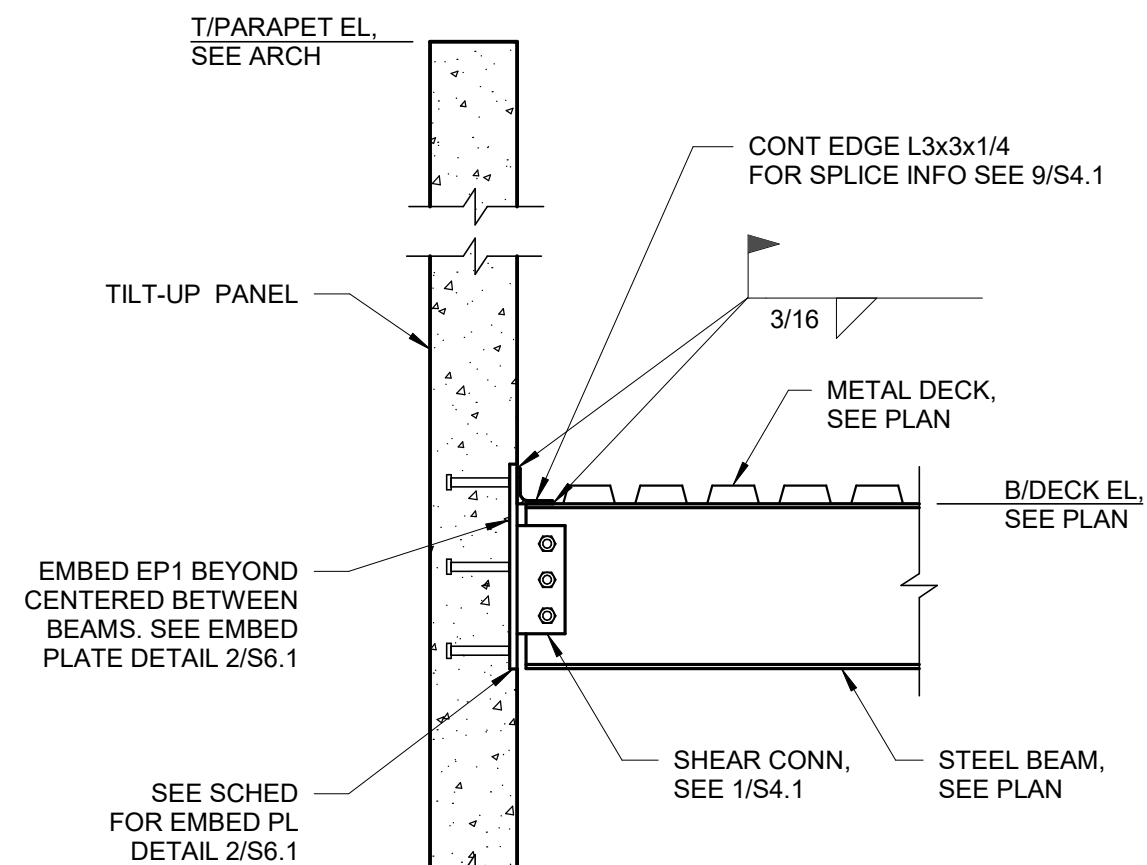
- SCALE: NTS

TO THE BEST OF THE ENGINEERS KNOWLEDGE, THE PLANS AND SPECIFICATIONS COMPLY WITH THE APPLICABLE MINIMUM BUILDING CODES FOR THIS PART OF THE WORK IN ACCORDANCE WITH THE APPLICABLE FLORIDA STATUTES.

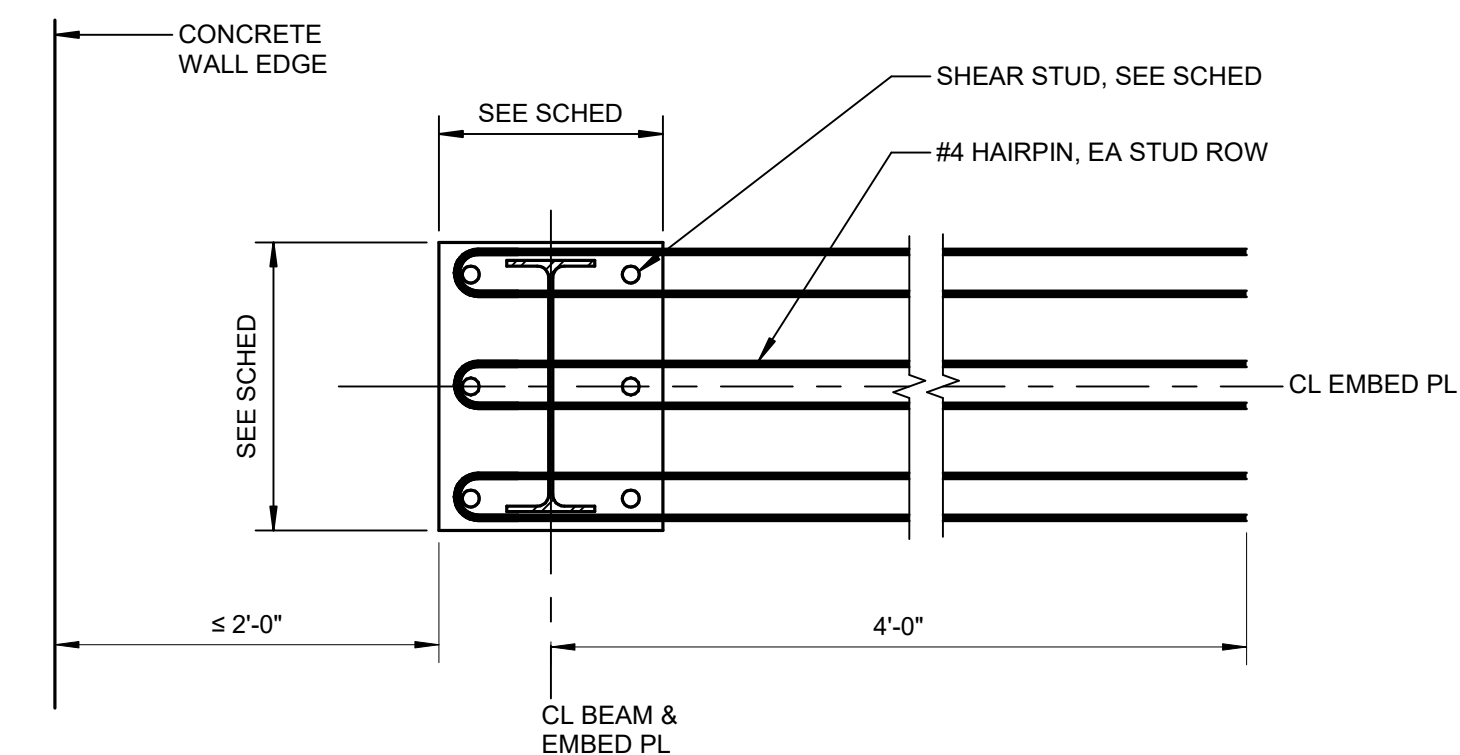
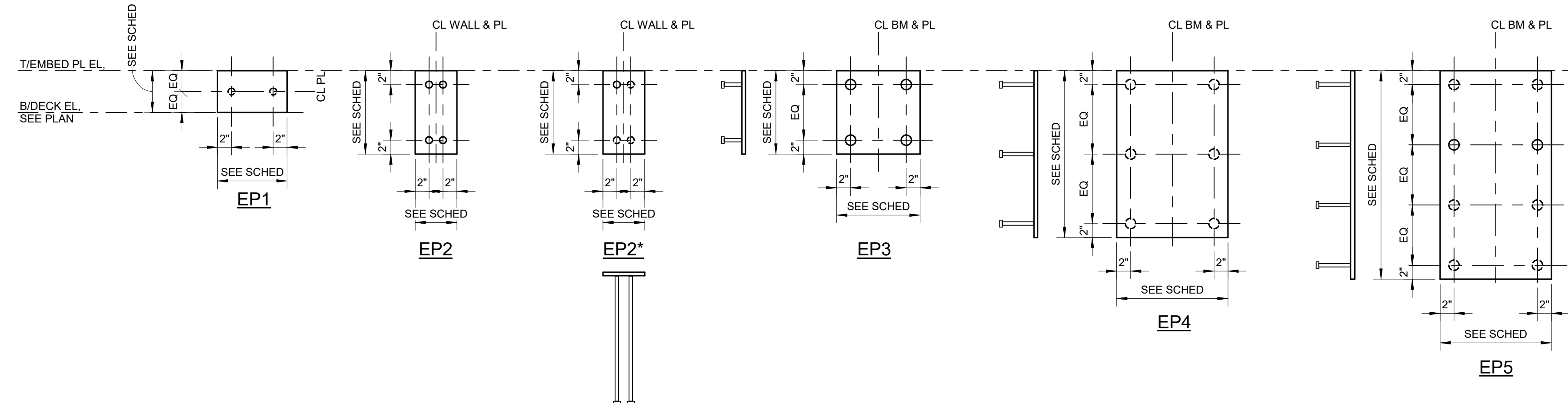


EMBED PLATE NOTES:
REFER TO PLANS, SECTIONS AND DETAILS FOR
EMBED PLACEMENT AND LOCATION.

BEAM SIZE	PLATE DESIGNATION	PLATE DIMENSIONS			ANCHOR SIZE	STUD LENGTH	FACTORED LOAD CAPACITY	
		THICKNESS	WIDTH	LENGTH			TYP	EDGE
N/A	EP1	1/2"	6"	10"	1/2"Ø	4.5"	N/A	
N/A	EP2	1/2"	6"	1'-0"	1/2"Ø	4.5"	N/A	
LH	EP2*	1/2"	6"	1'-0"	1/2"Ø	18"	9K	
HSS	EP3	1/2"	1'-0"	1'-0"	1/2"Ø	2.5"	12K	
W16, W18	EP4	3/4"	1'-4"	2'-0"	3/4"Ø	4.5"	65K	40K
W24, W27, W30	EP5	3/4"	1'-4"	2'-6"	3/4"Ø	4.5"	89K	65K



NOTES:
1) SEE 7/S6.1 AT LOCATIONS WHERE CENTERLINE OF BEAM IS WITHIN 1'-0" OF PANEL JOINT.
2) PANEL REINF NOT SHOWN FOR CLARITY.
3) EP1 NOT REQUIRED AT EP3 AND EP4 LOCATIONS.



NOTE:
FOR BEAMS LESS THAN
1'-0" FROM PANEL JOINT,
SEE DETAIL 7/S6.1 FOR
ADDITIONAL REQUIREMENTS.

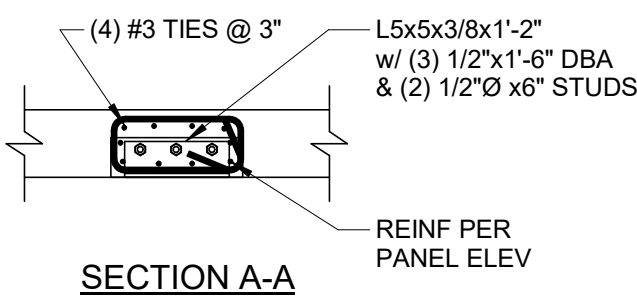
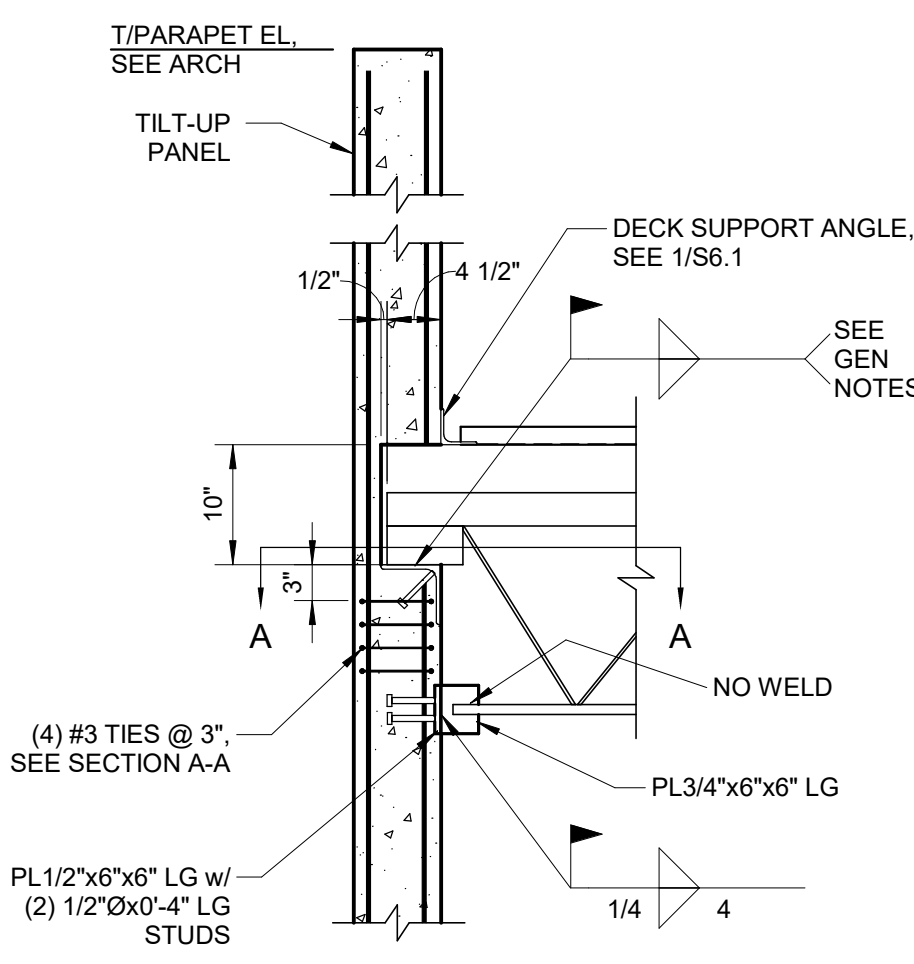
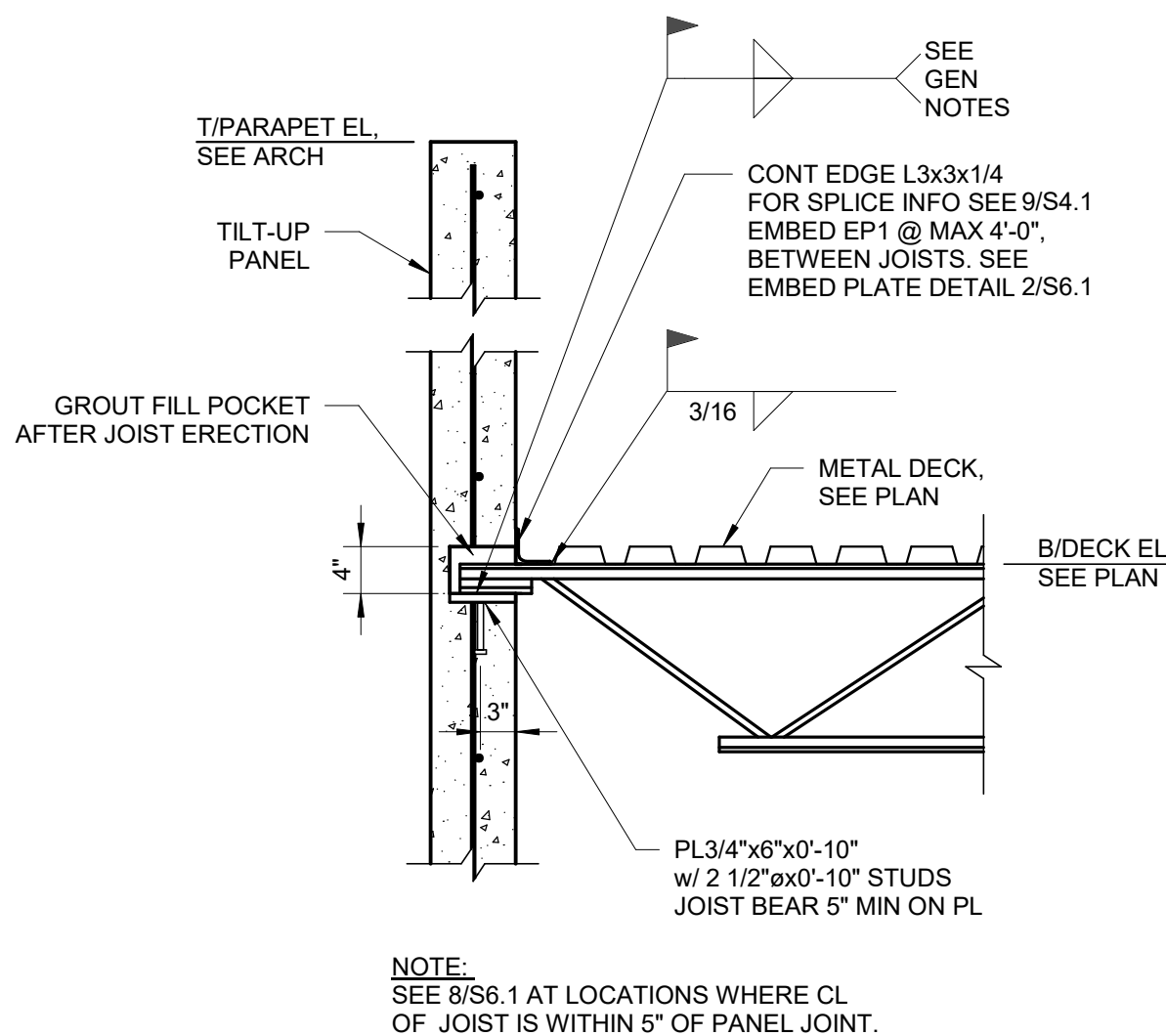
EDGE EMBED PLATE DETAIL (< 2'-0")

1 TYP BEAM TO PANEL CONN

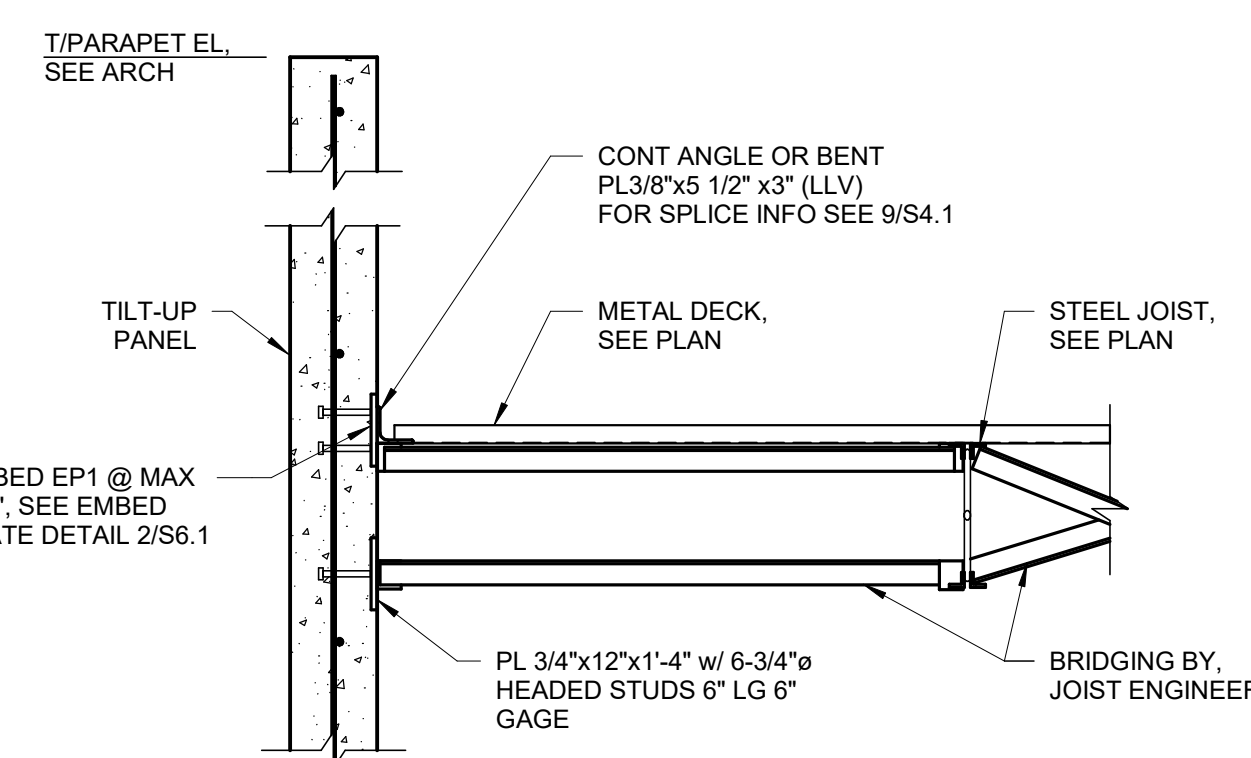
S6.1 SCALE: NTS

2 EMBED PLATE DETAIL AND SCHEDULE

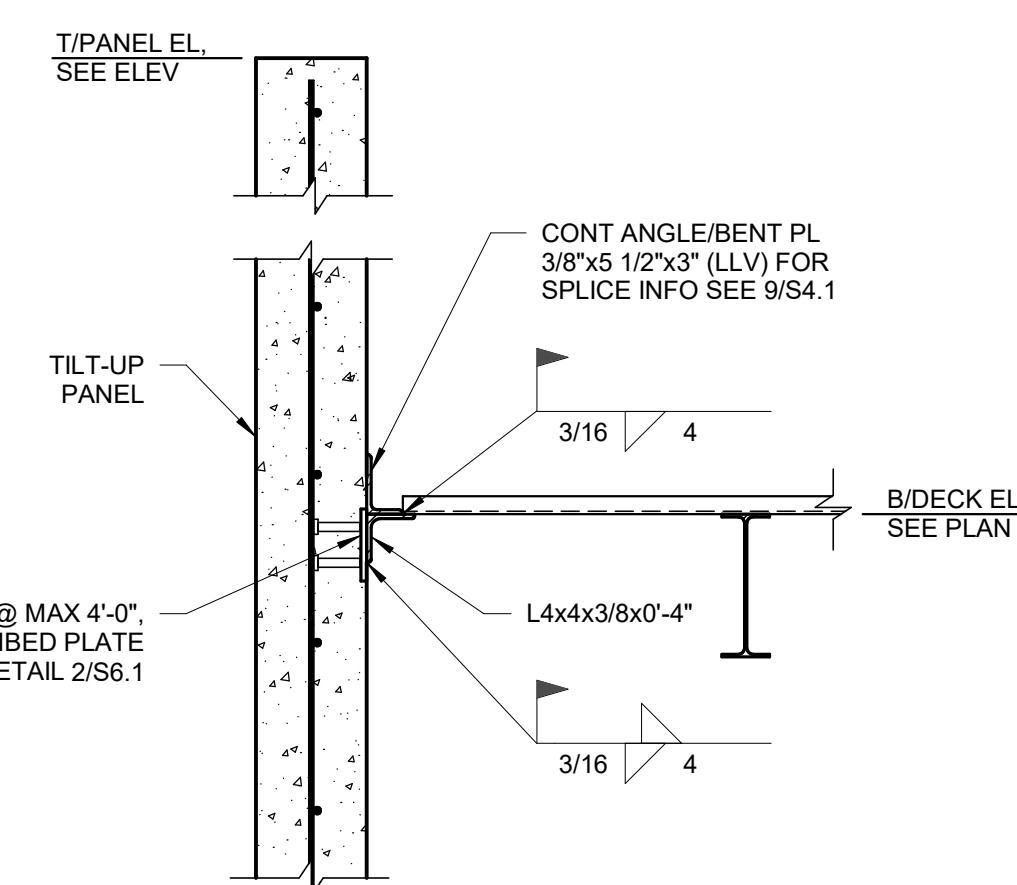
S6.1 SCALE: NTS



NOTE:
MIN REINF REQUIREMENTS
SHOWN, SEE SHEET S7.1-S7.4
FOR ADDITIONAL INFO.



NOTE:
IF EDGE ANGLE EMBED & GIRDER EMBED
INTERFERE PLACE EDGE ANGLE EMBED
ABOVE GIRDER EMBED.



3 TYP JOIST TO PANEL CONN

S6.1 SCALE: NTS

4 TYP TILT-PANLE SEAT AT JOIST GIRDER

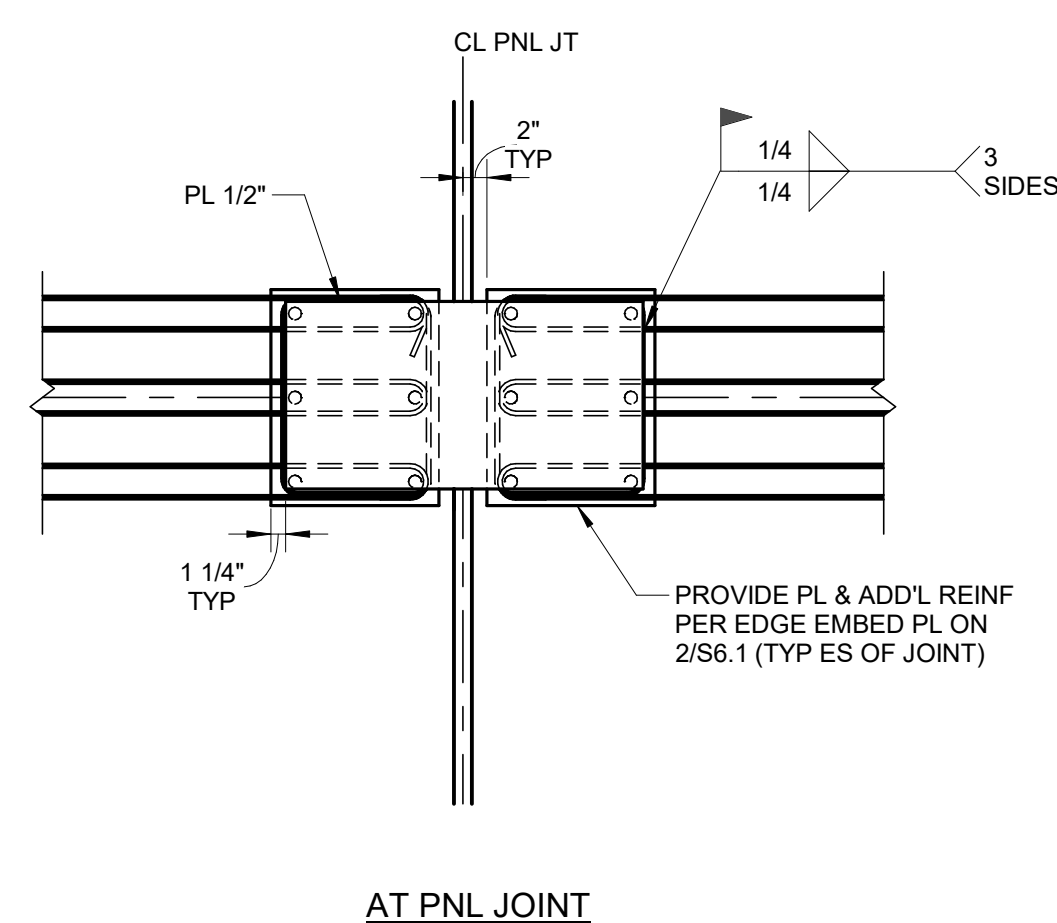
S6.1 SCALE: NTS

5 JOIST BRIDGING @ PANEL

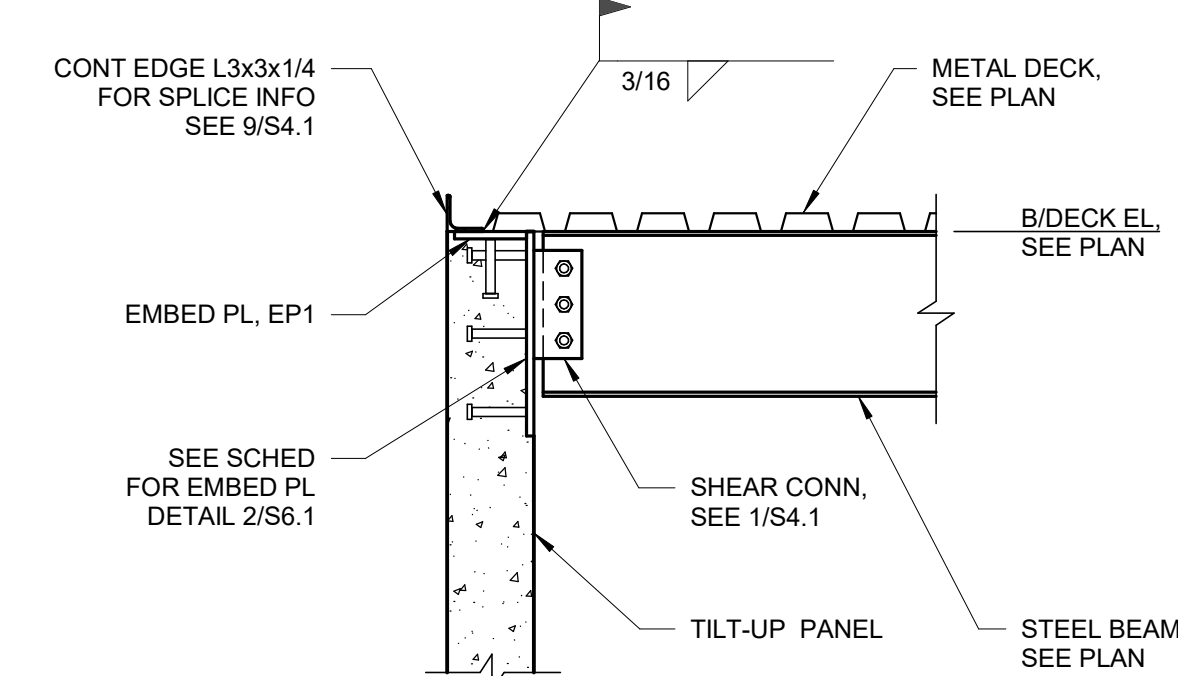
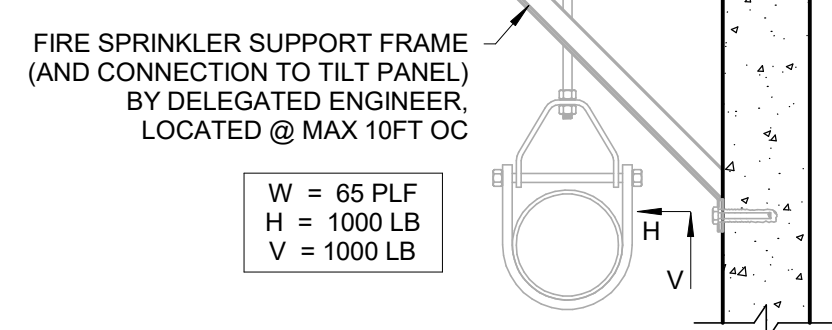
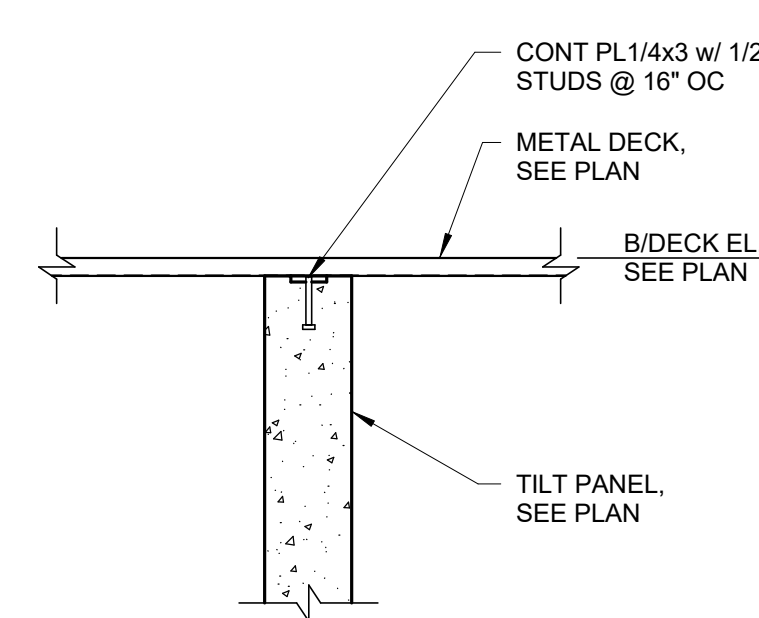
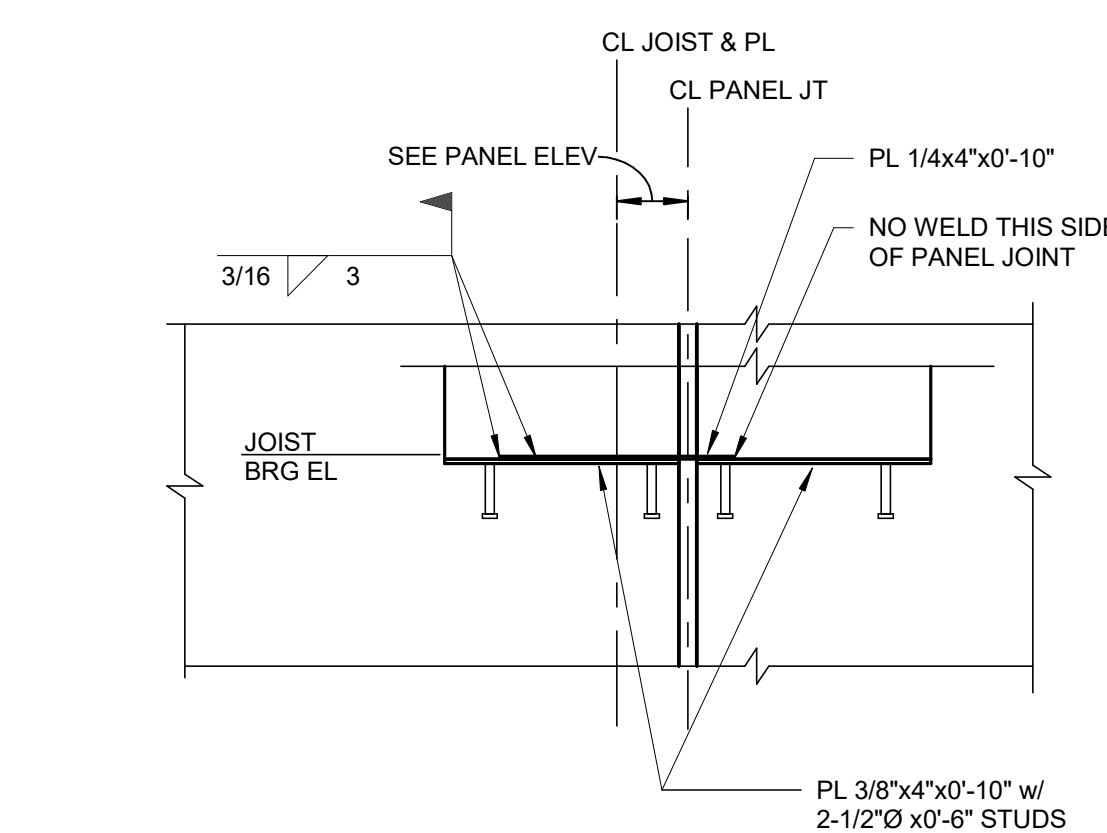
S6.1 SCALE: NTS

6 EDGE ANGLE CONN

S6.1 SCALE: NTS



AT PNL JOINT



7 BEAM BEARING AT PANEL JOINT

S6.1 SCALE: NTS

8 JOIST BEARING @ PANEL JOINT

S6.1 SCALE: NTS

9 METAL DECK OVER PANEL

S6.1 SCALE: NTS

10 FIRE SPRINKLER SUPPORT FRAME

S6.1 SCALE: NTS

11 TYP BEAM TO PANEL CONN W/O PARAPET

S6.1 SCALE: NTS

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ERIK C. KASPER AR#0017162

**BUSY BEE
ELLISVILLE**

136 SW WEBBS GLN
LAKE CITY, FL 32024

PROJECT NO.: 22024

DATE: 06/02/2025

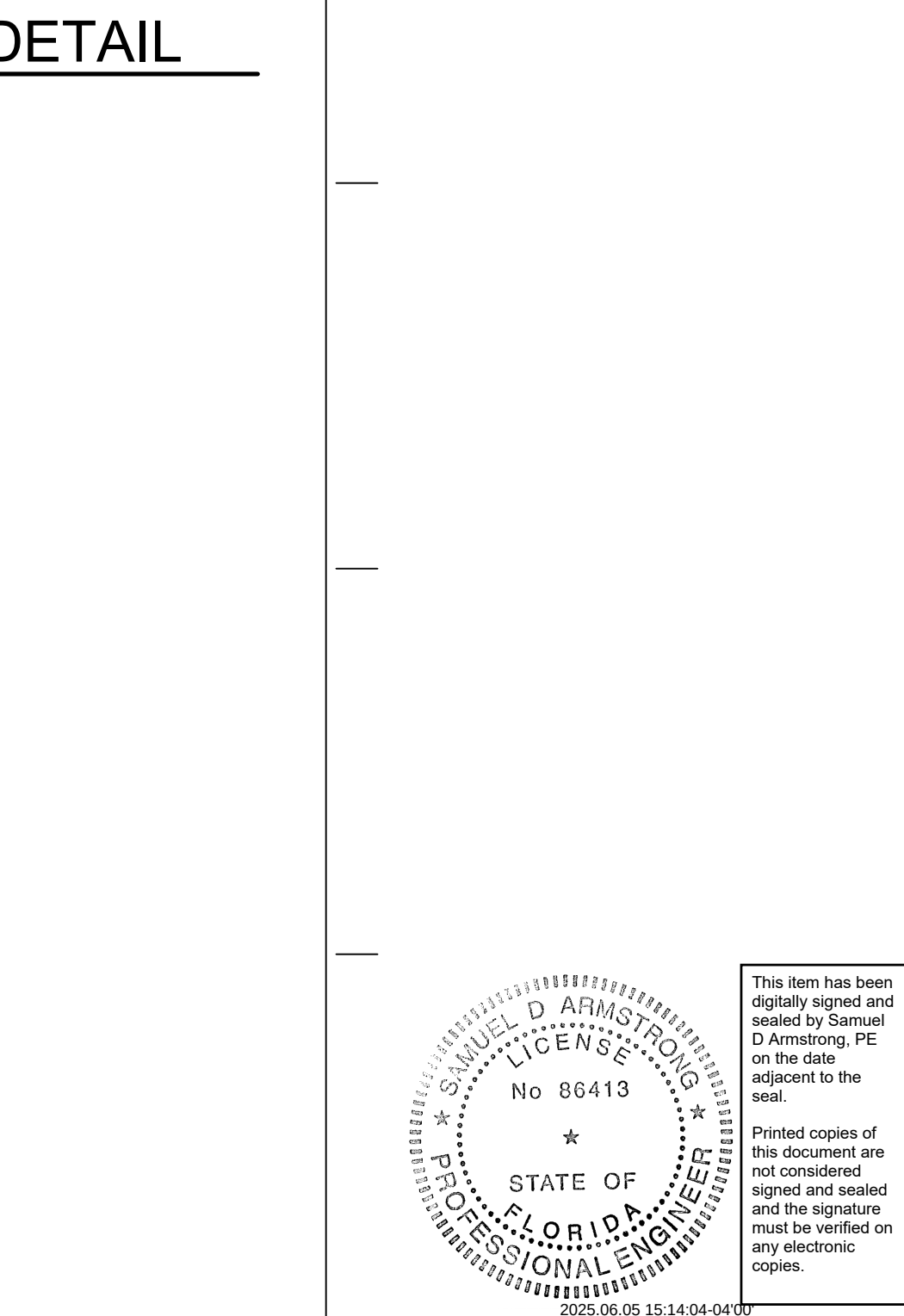
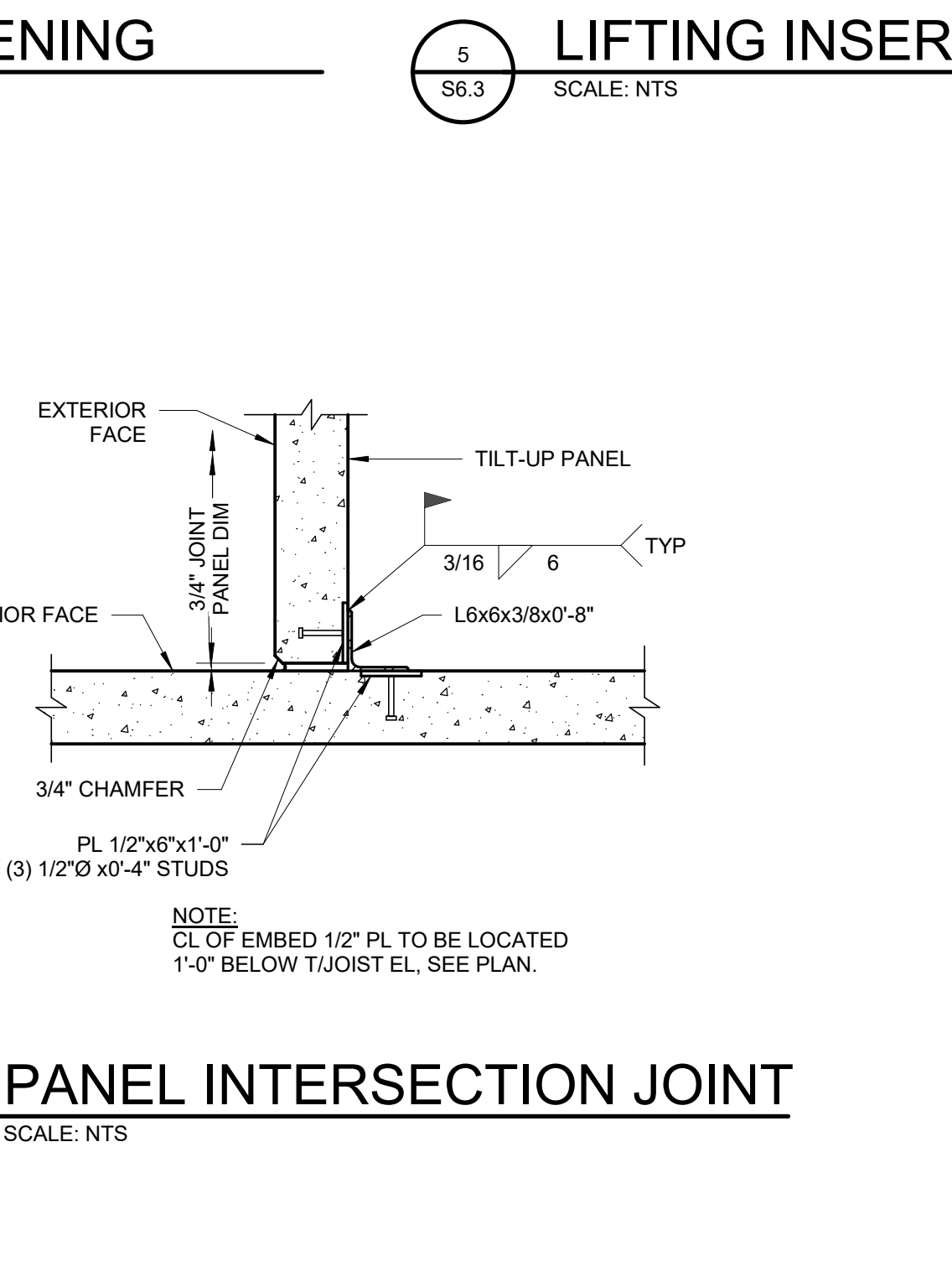
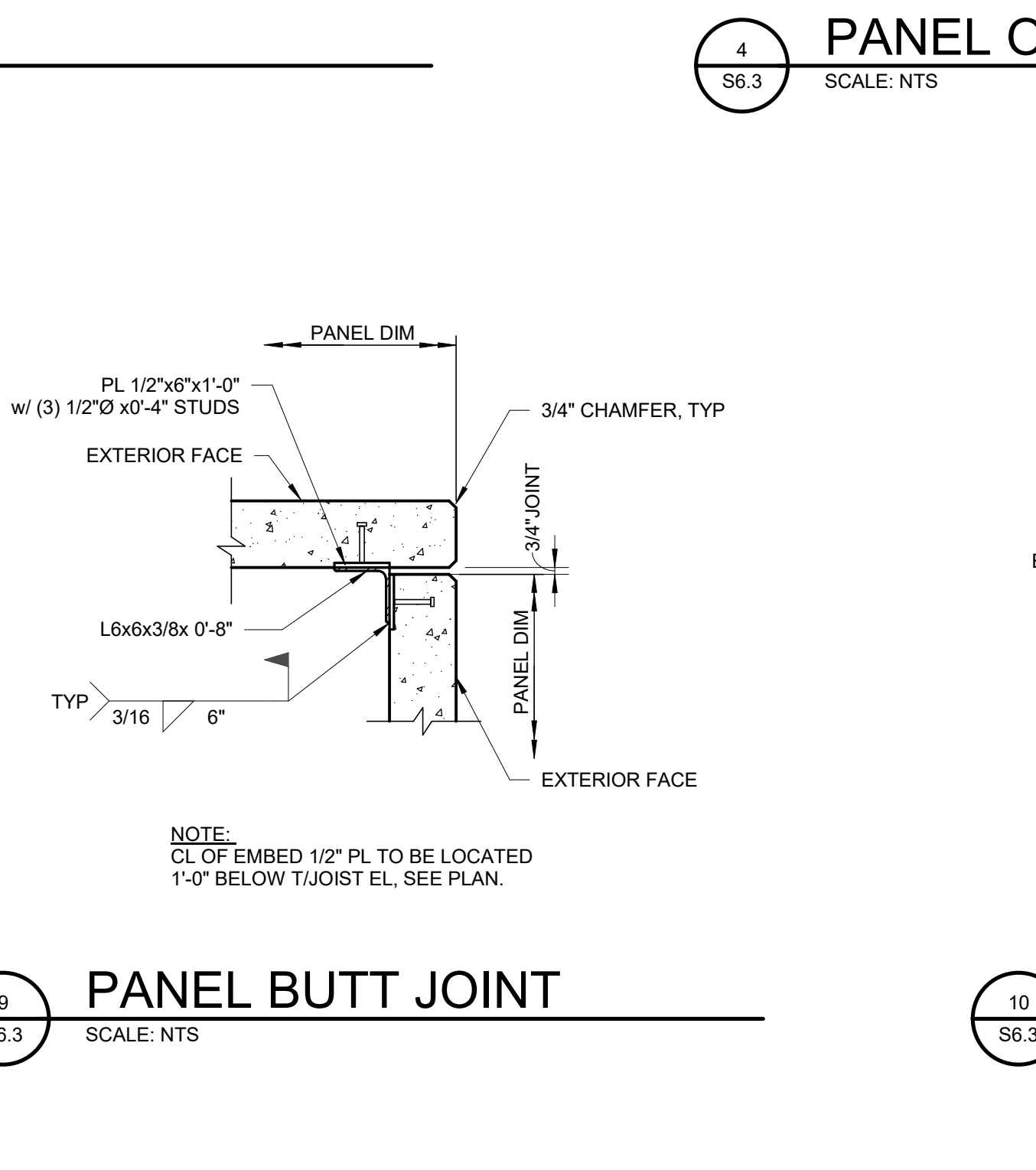
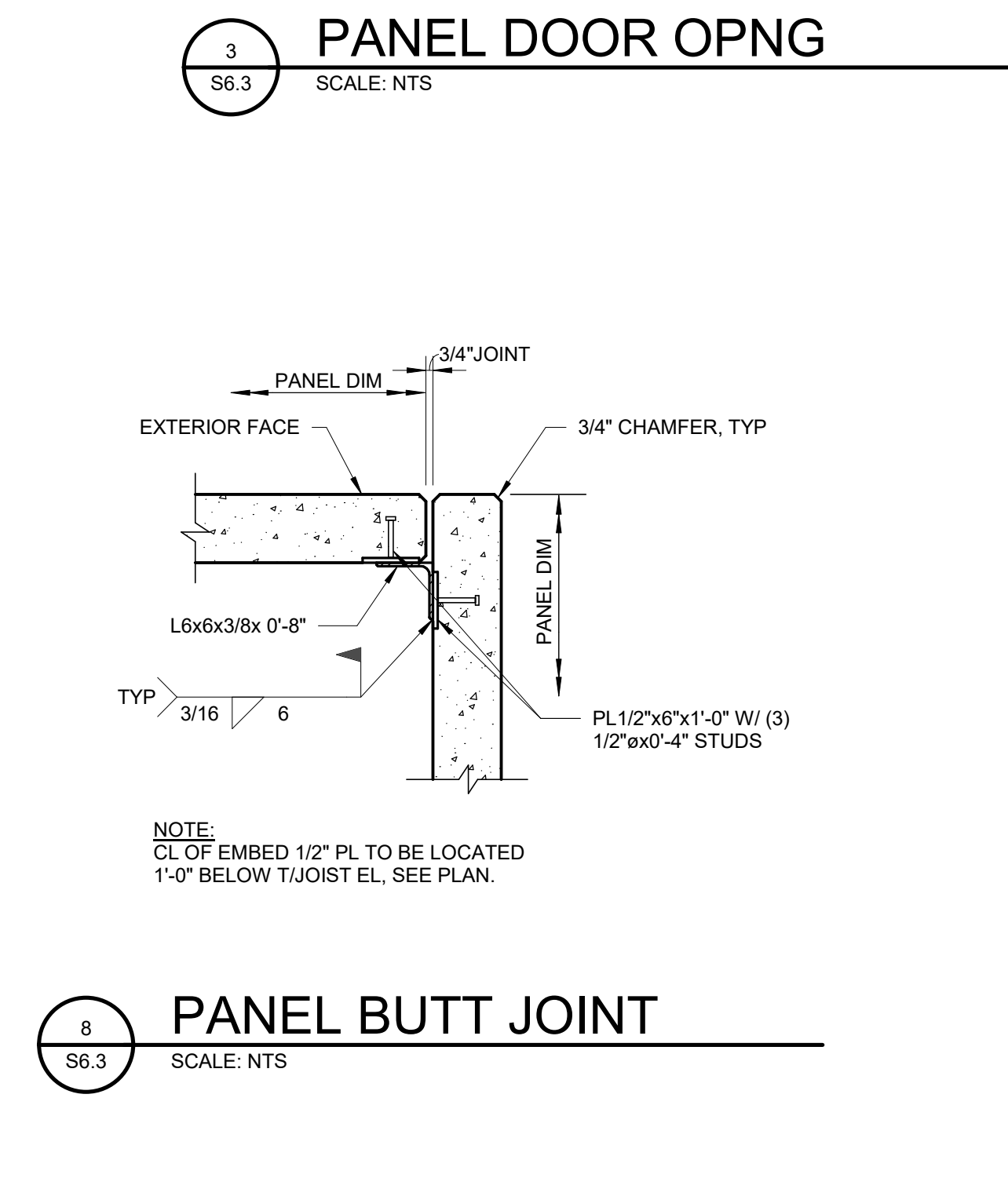
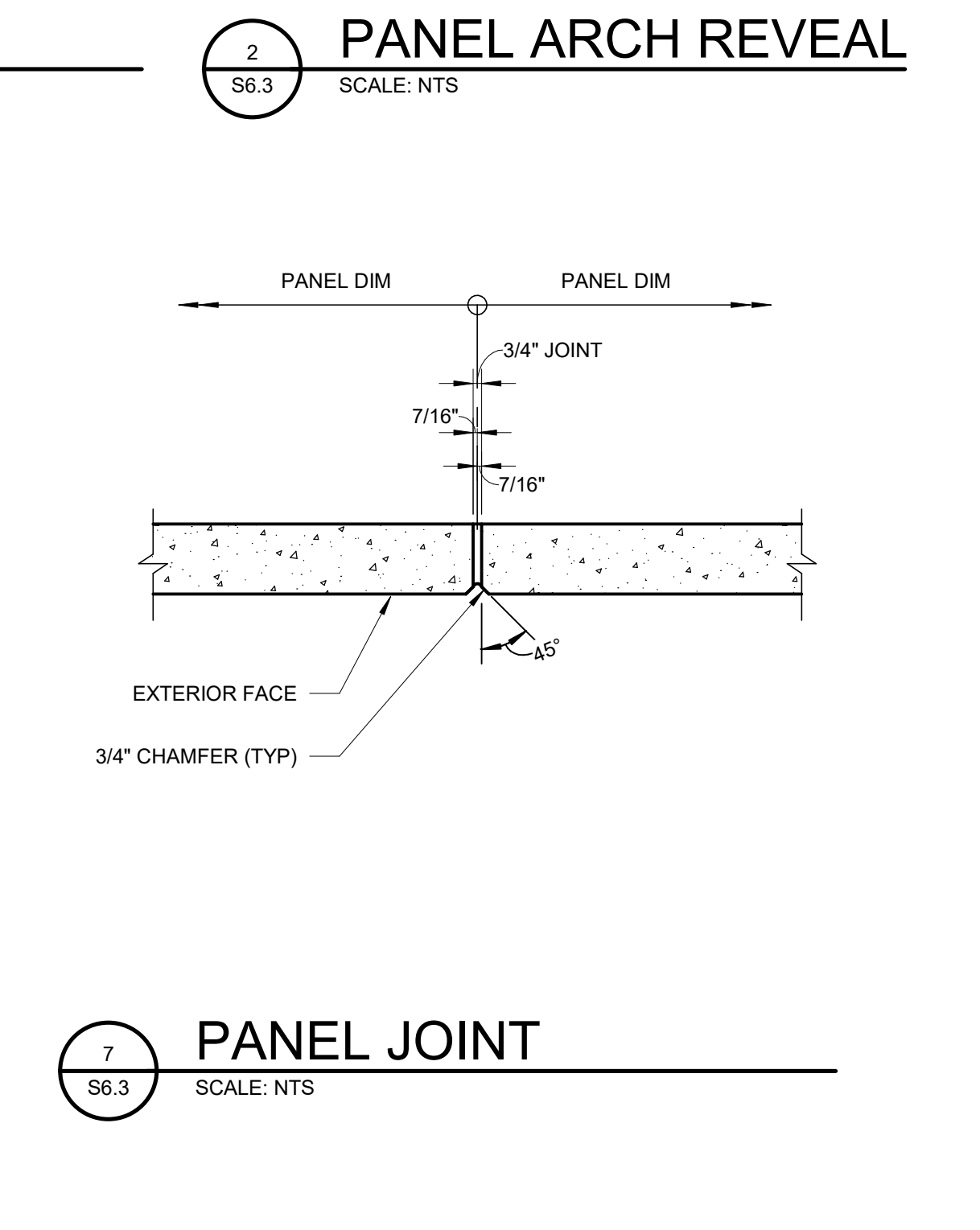
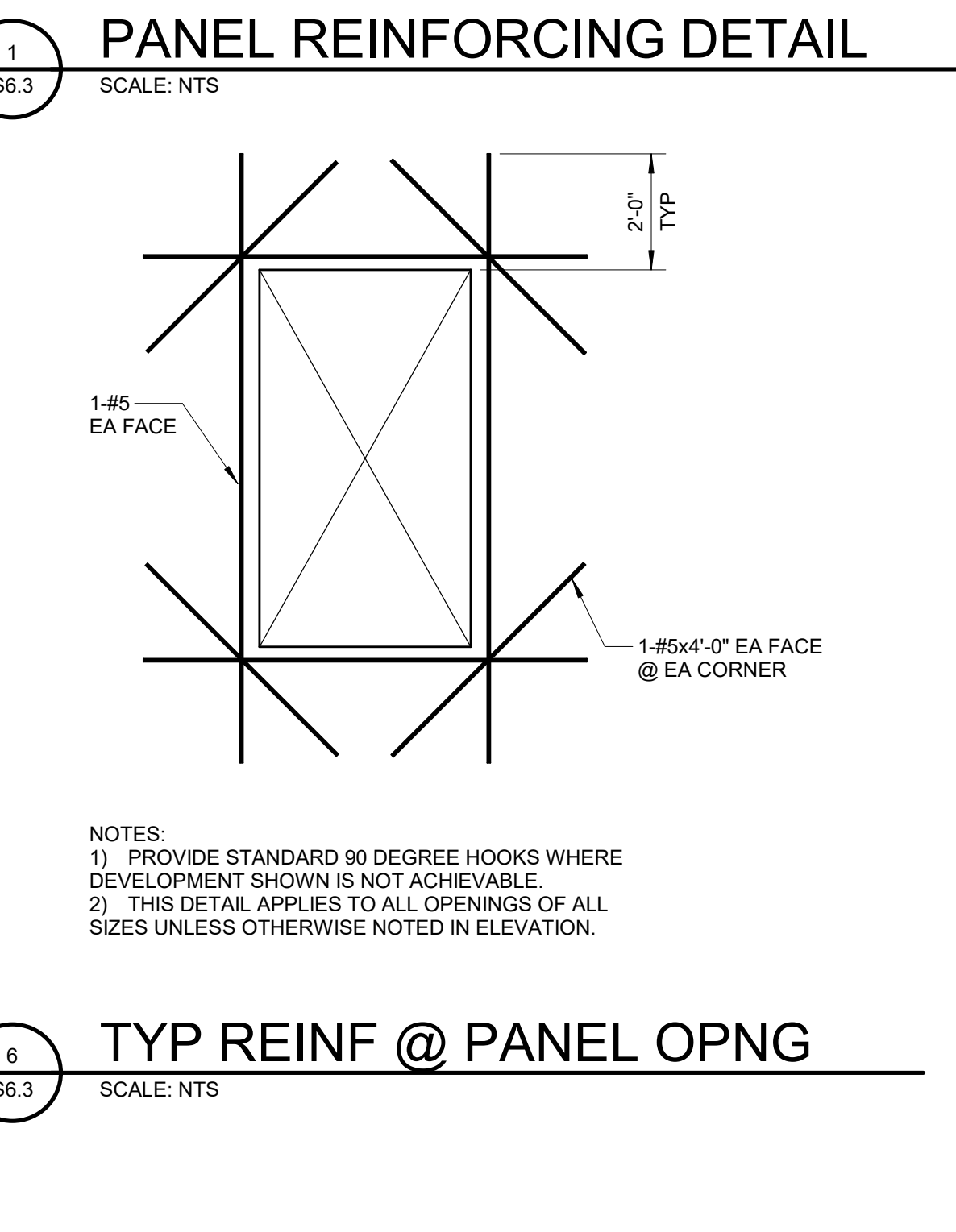
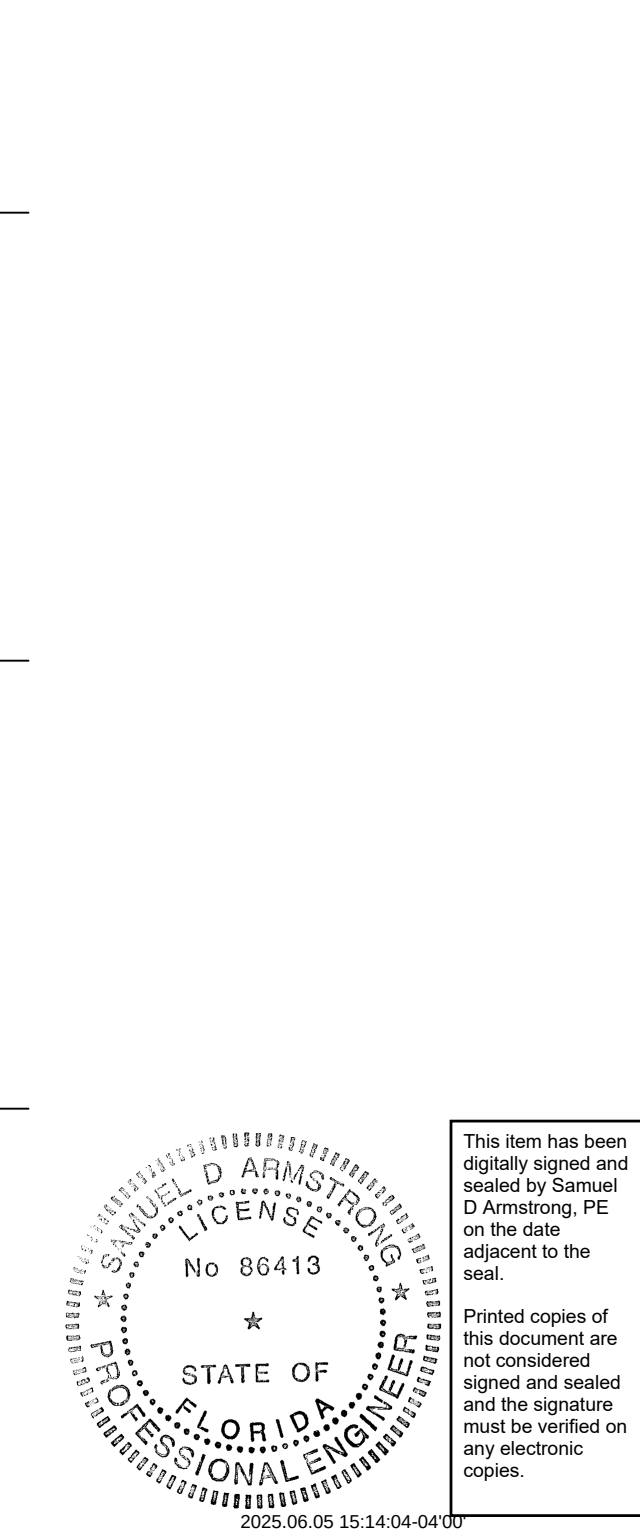
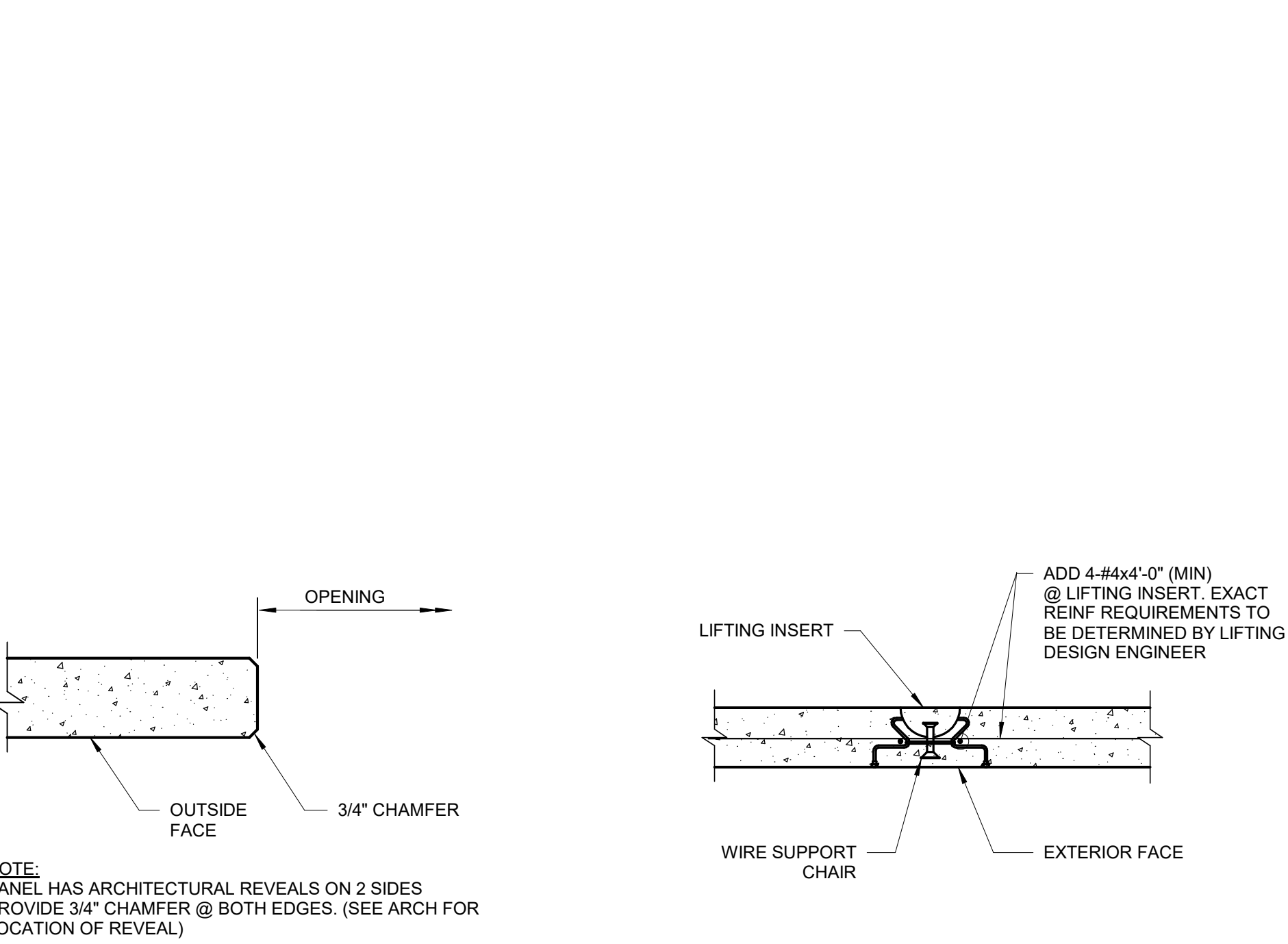
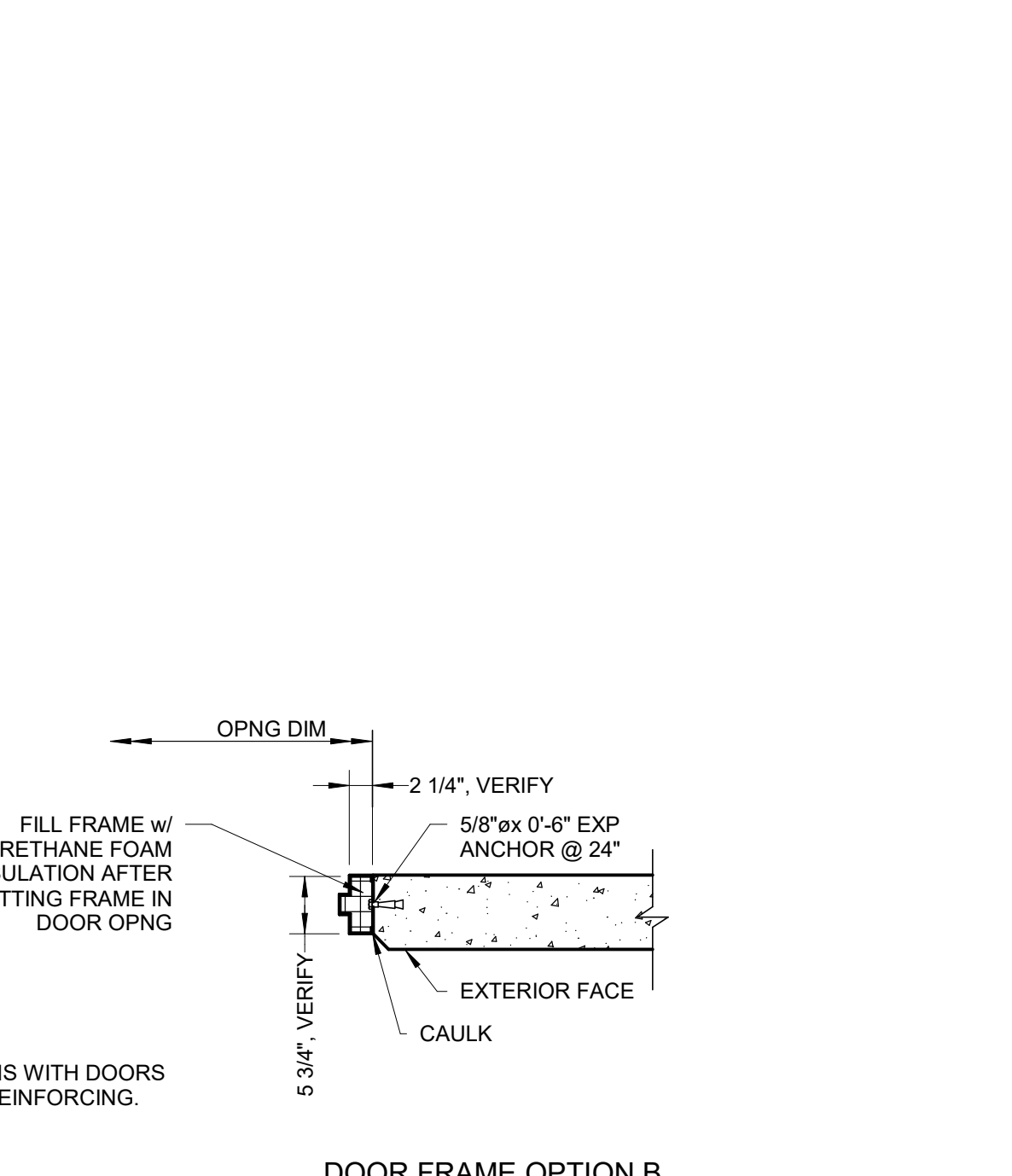
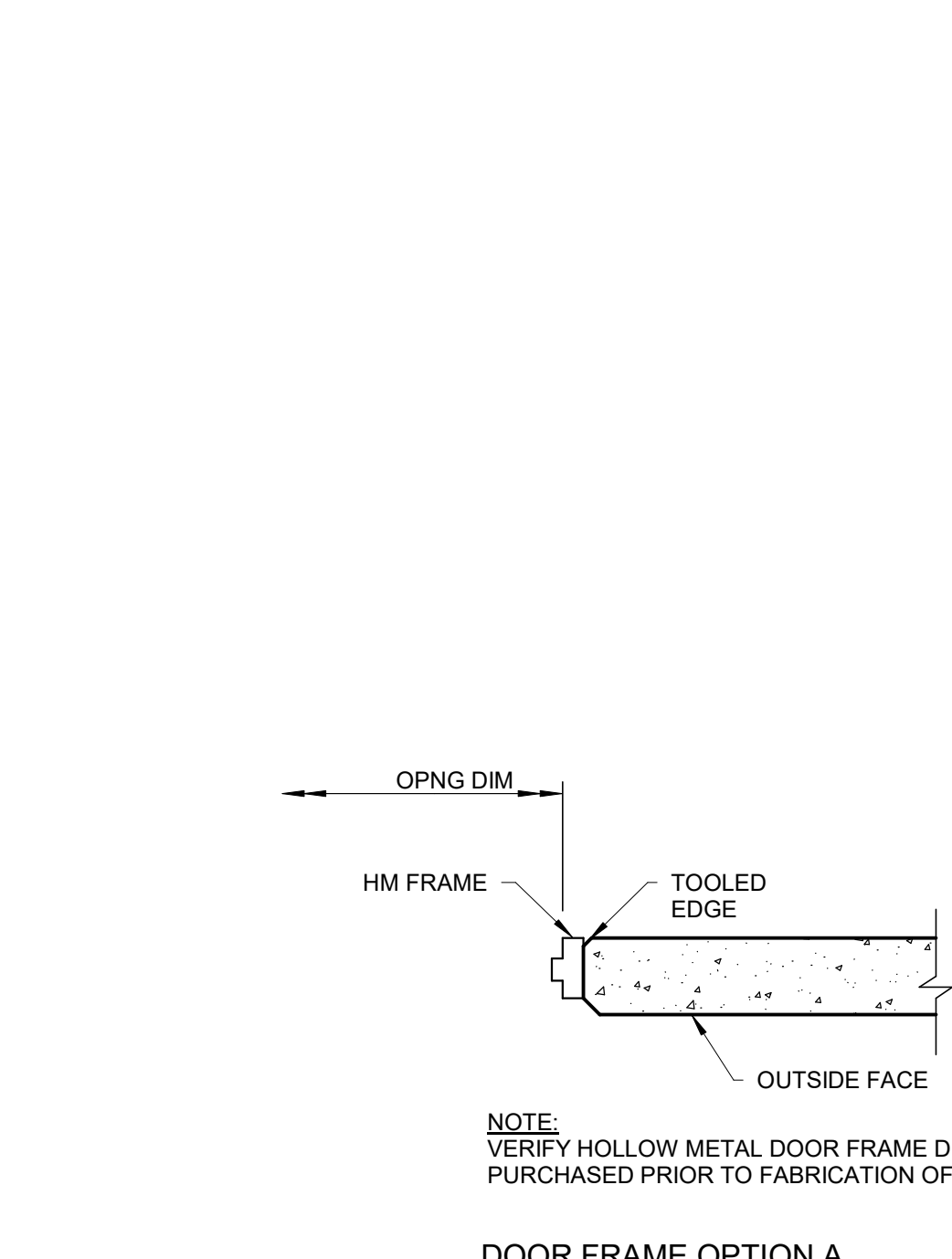
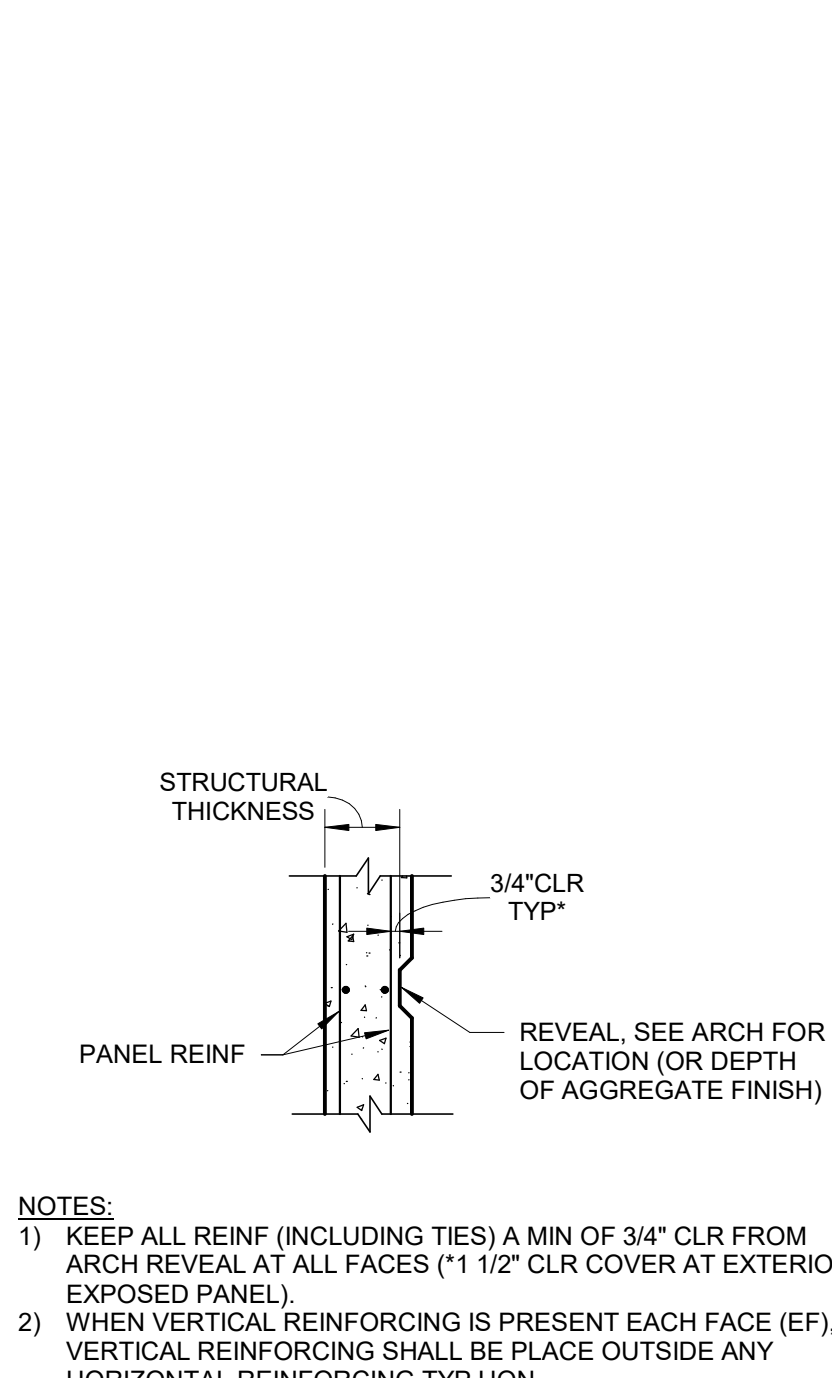
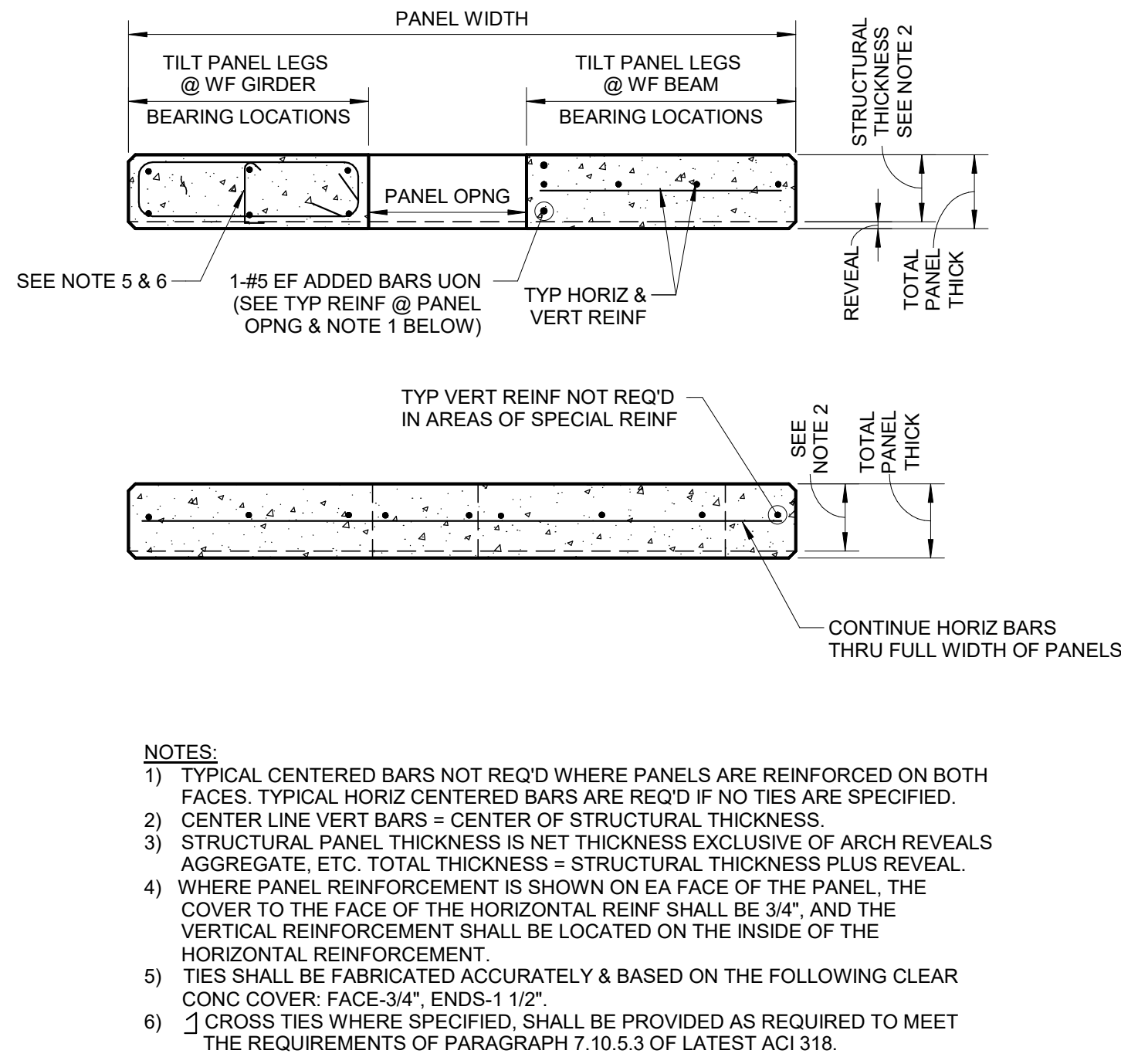
PRIOR ISSUES:

**TILT PANEL
SECTIONS &
DETAILS**

S6.1

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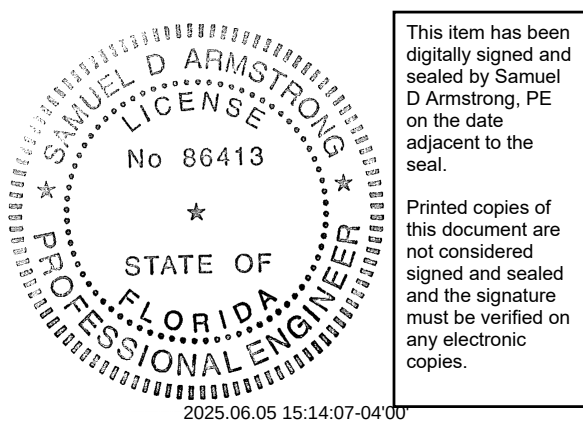


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ERIK C. KASPER AR#0017162

**BUSY BEE
ELLISVILLE**

136 SW WEBBS GLN
LAKE CITY, FL 32024

PROJECT NO.: 22024

DATE: 06/02/2025

PRIOR ISSUES:

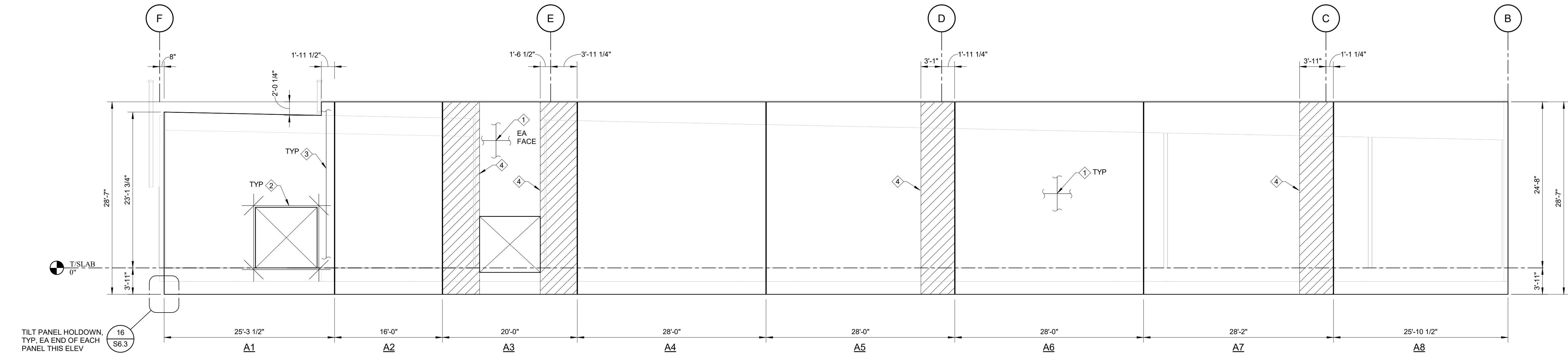
**TILT-UP
ELEVATIONS**

S7.1

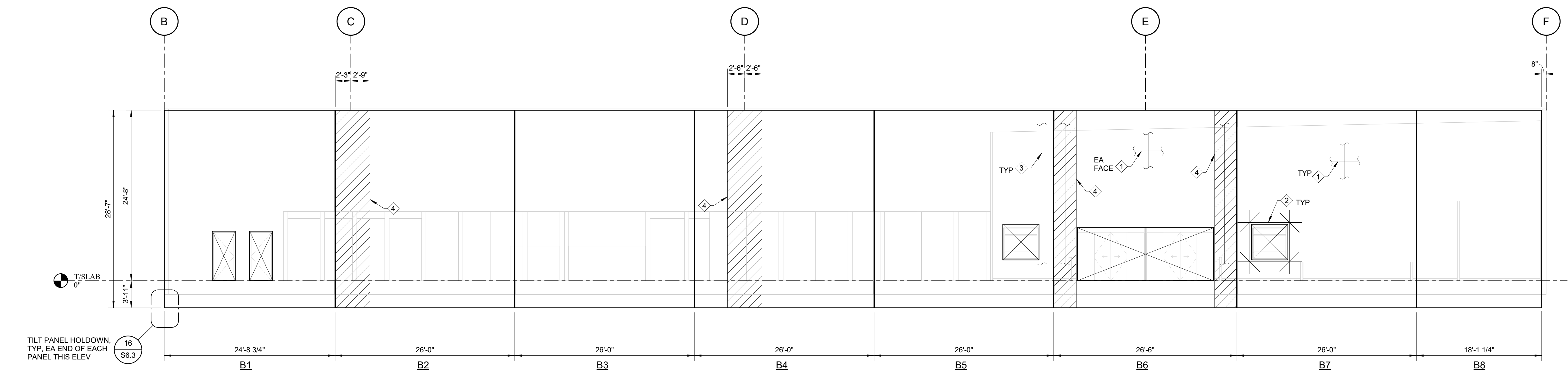
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ELEVATION A
SCALE: 1/8" = 1'-0"



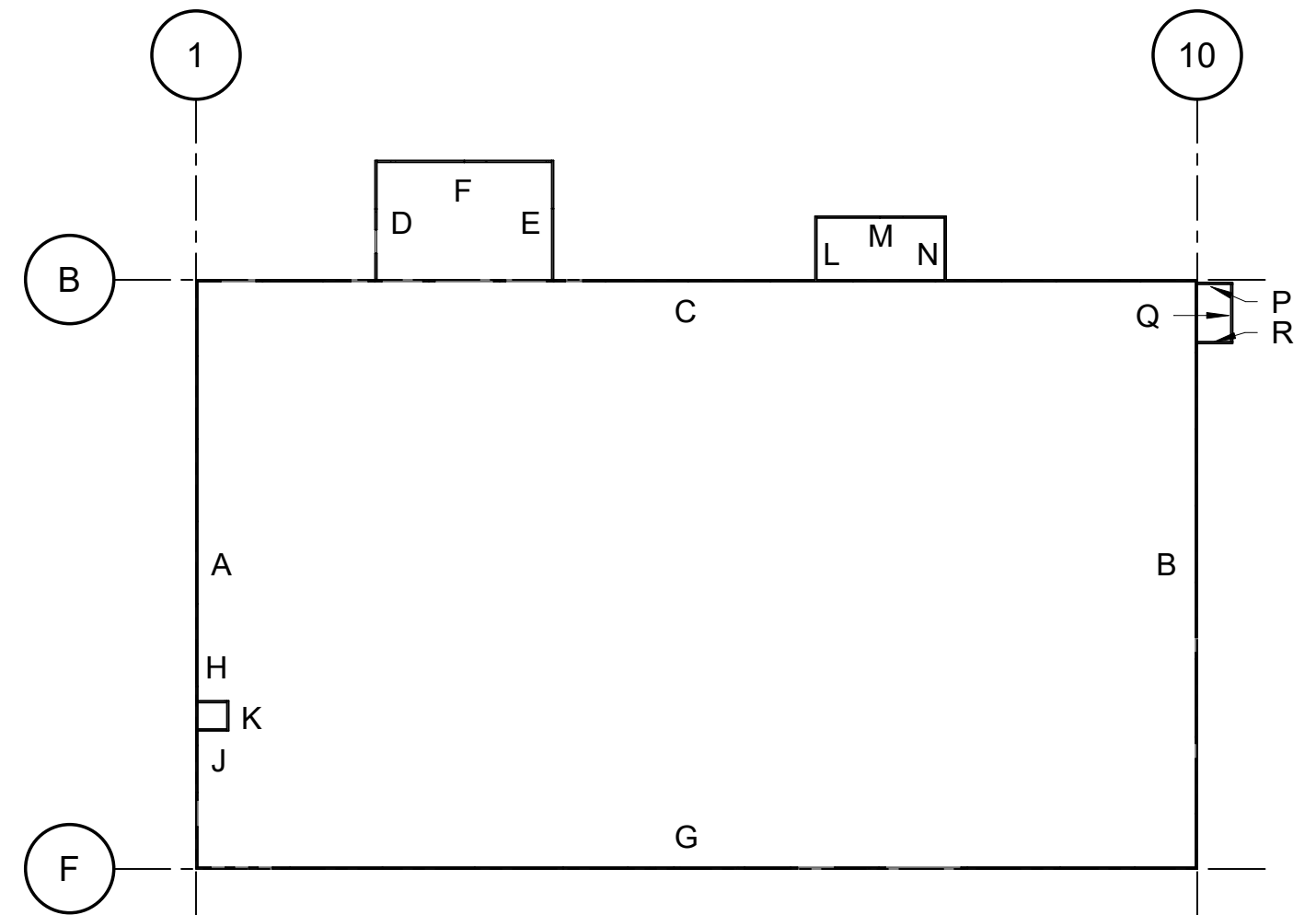
ELEVATION B
SCALE: 1/8" = 1'-0"

TILT-UP ELEVATION NOTES:

- 1) PANEL SHALL BE CONSTRUCTED WITH FAR SIDE DOWN UON.
- 2) SEE DETAIL 1/S6.3 FOR REINFORCING PLACING DETAILS.
- 3) FOR REINFORCING AROUND PANEL OPENINGS SEE DETAIL 6/S6.3 (VERTICAL REINFORCING SHOWN IN DETAIL NOT REQUIRED WHERE COLUMN CAGE REINFORCING IS SPECIFIED ON PANEL ELEVATIONS-COLUMN CAGE TO EXTEND FULL HEIGHT OF PANEL).
- 4) SEE SHEET S6.3 FOR STANDARD PANEL DIMENSIONING METHODOLOGY, SECTIONS & DETAILS.
- 5) PANELS COMPOSED OF NORMAL WEIGHT CONCRETE. SEE GENERAL NOTES FOR STRENGTH REQUIREMENTS.
- 6) SEE ARCH ELEVATIONS FOR PANEL REVEALS AND DEPRESSIONS. SEE SECTION 2/S6.3 FOR REVEAL DETAIL.
- 7) SEE DETAIL 12/S6.3 FOR SLAB DOWELS TO BE CAST INTO PANEL.
- 8) SEE PANEL LIFTING INSERT SHOP DRAWINGS FOR ADDITIONAL REINFORCING REQUIREMENTS TO ACCOMMODATE LIFTING STRESSES, WHICH MAY EXCEED THE REINFORCING SPECIFIED ON ELEVATIONS ABOVE.
- 9) WHERE PANEL REINFORCING IS SPECIFIED EA FACE (EF), EXCEPT @ REINFORCING CAGES w/ TIES, THE VERTICAL REINFORCING OF EA LAYER SHALL PLACED CLOSEST TO THE FACE OF THE PANEL.
- 10) SEE 7/S6.3 FOR INFO AT PANEL JOINTS.
- 11) SEE 5/S6.3 FOR FOR ADDITIONAL REINFORCEMENT @TILT PANEL LIFTING INSERT.
- 12) CONTRACTOR TO COORDINATE CONDUIT LOCATIONS w/ELECTRICAL SUBCONTRACTOR. CONDUITS SHALL BE PLACED PRIOR TO TILT WALL PLACEMENT. NO CUTTING OF REINFORCEMENT.
- 13) CONTRACTOR TO COORDINATE FINAL SCUPPER LOCATIONS WITH ARCH.

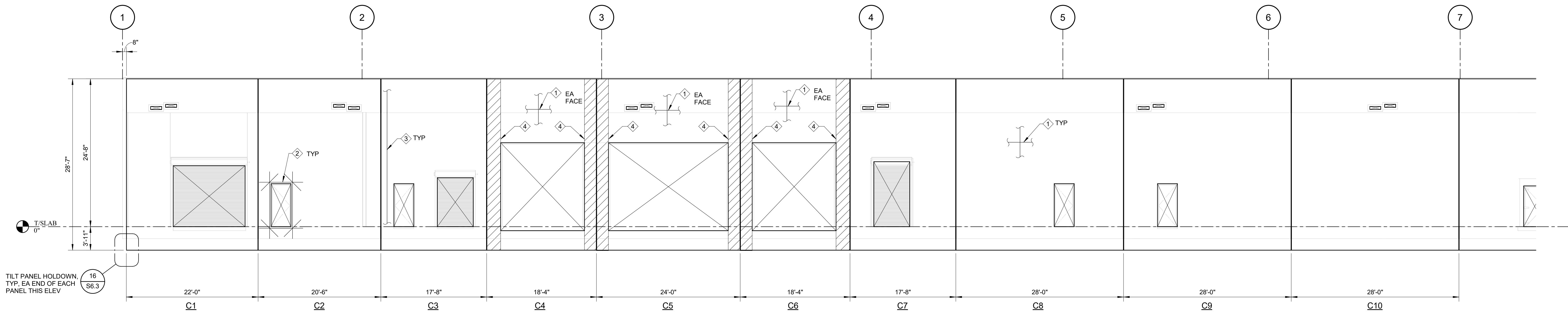
TILT-UP KEYNOTE LEGEND

- ① PANEL FIELD REINF. #5 @ 8" CTRD VERT AND #5 @ 12" CTRD HORIZ, TYP.
- ② PANEL OPENING REINF. SEE DETAIL 6/S6.3.
- ③ PANEL LEG REINF (FULL HT WALL SEGMENT ≤ 5FT WIDE); #5 VERT @ 4" OC W/ #5 HORIZ @ 12" OC, TYP.
- ④ PANEL LEG REINF (FULL HT WALL SEGMENT AS SHOWN ON ELEV); #5 VERT @ 4" OC EA FACE W/ #4 TIES @ 12" OC.

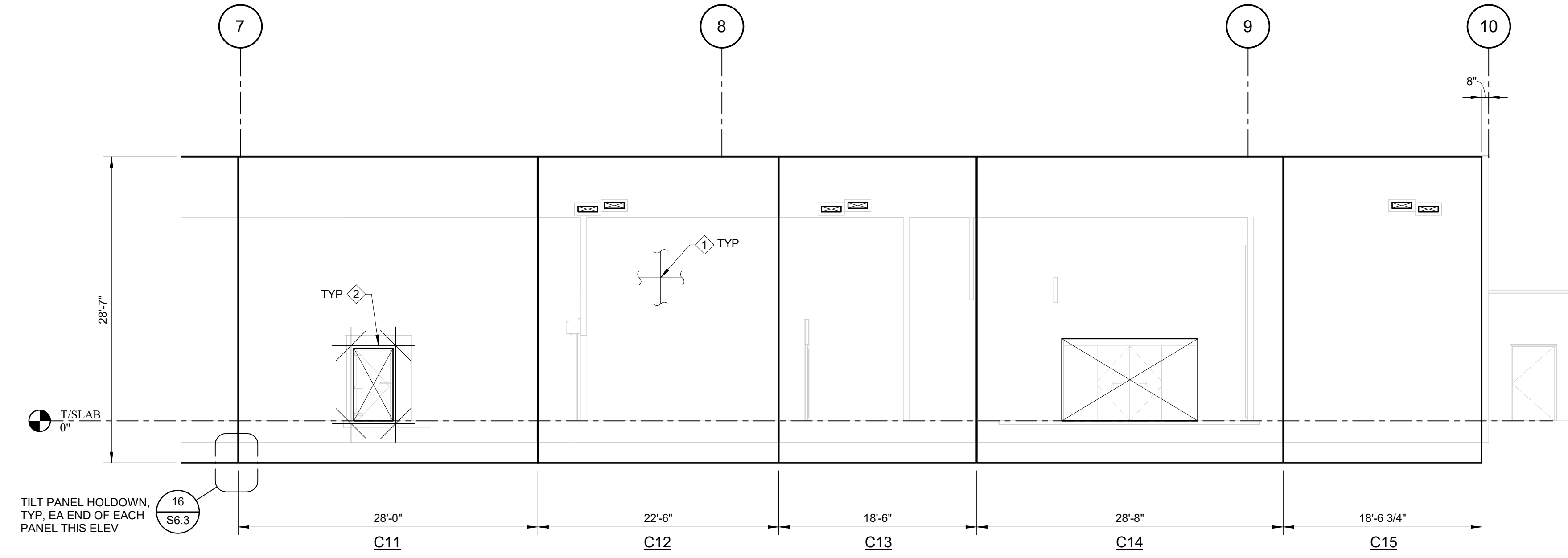


KEY PLAN

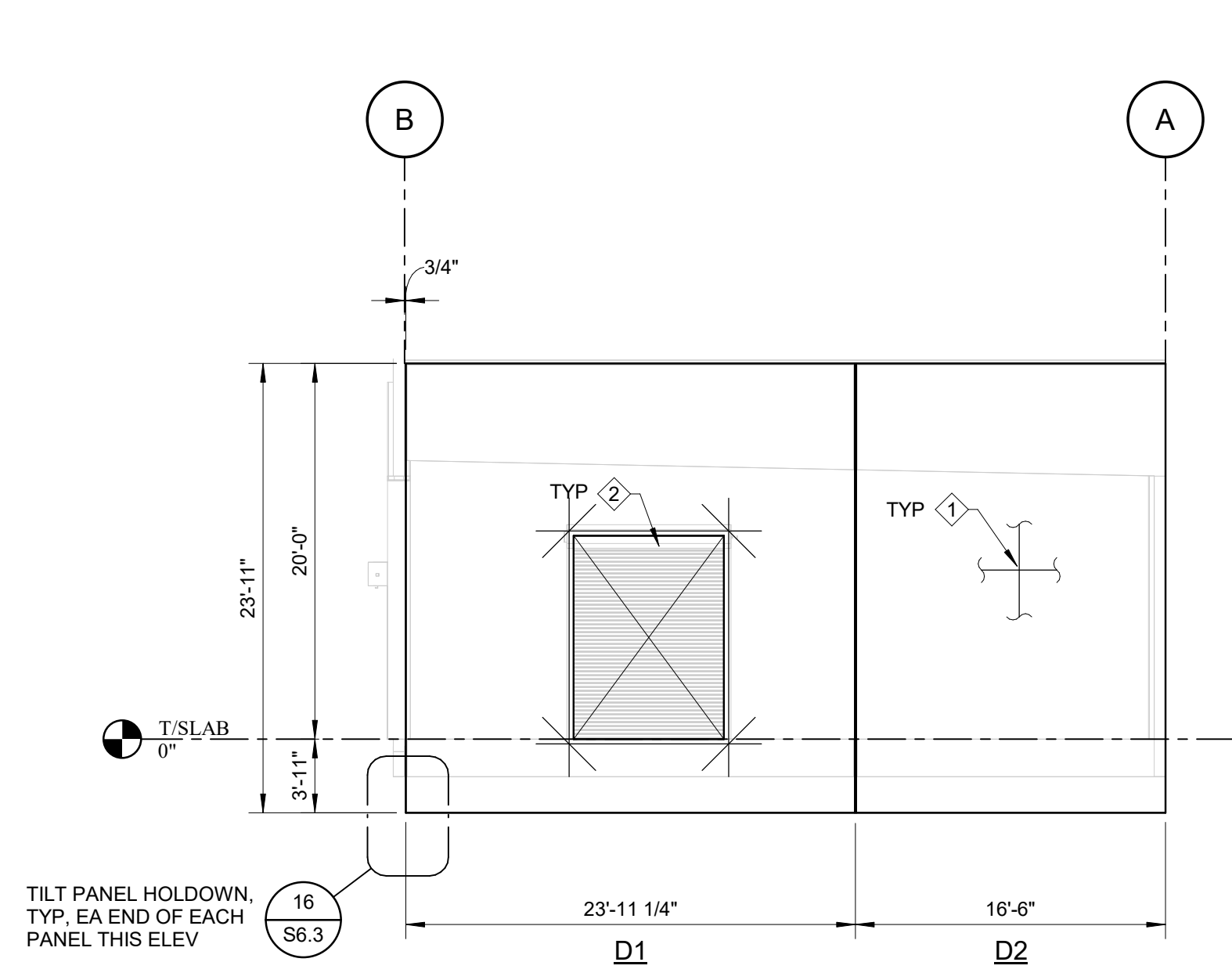
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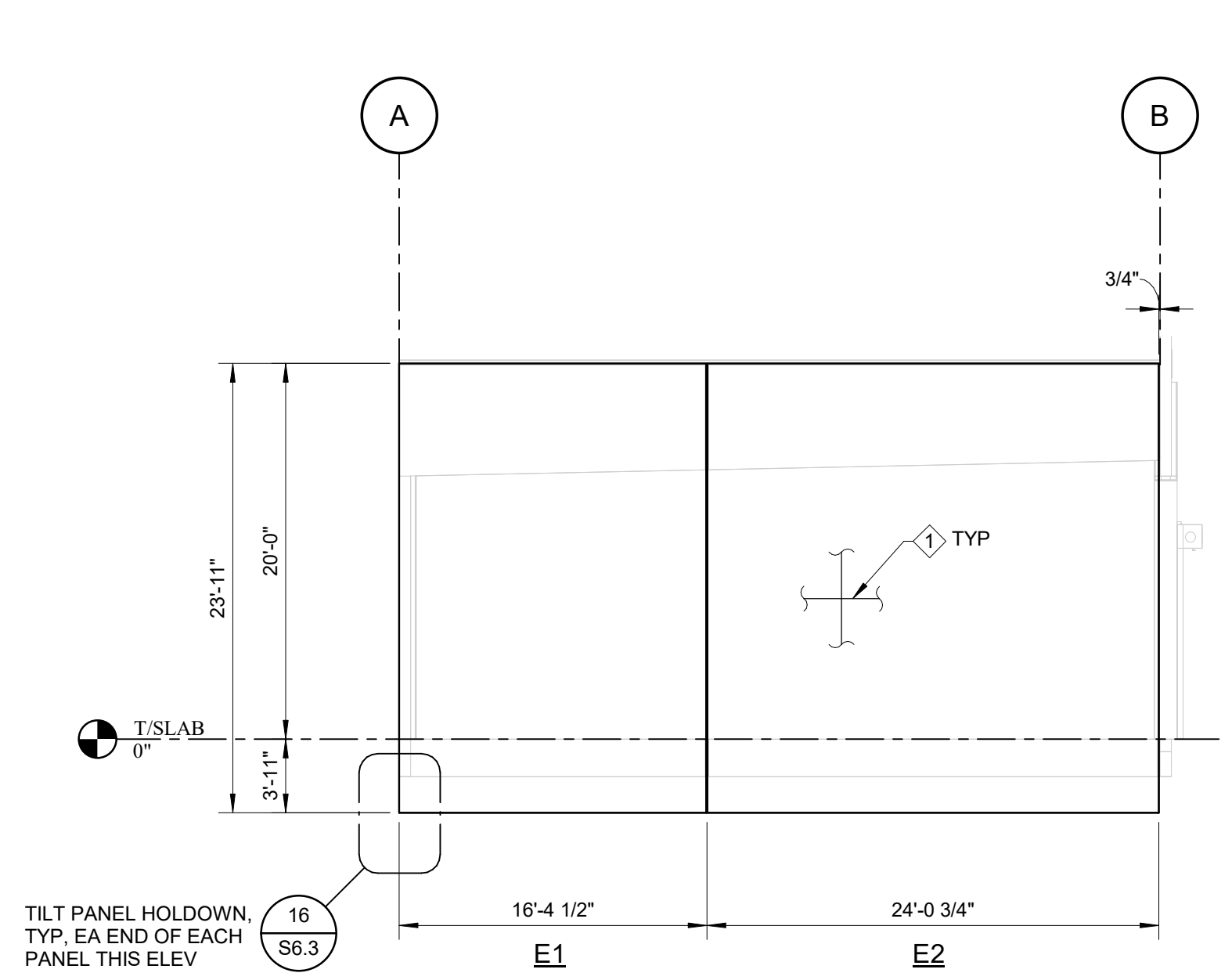
ELEVATION C
SCALE: 1/8" = 1'-0"



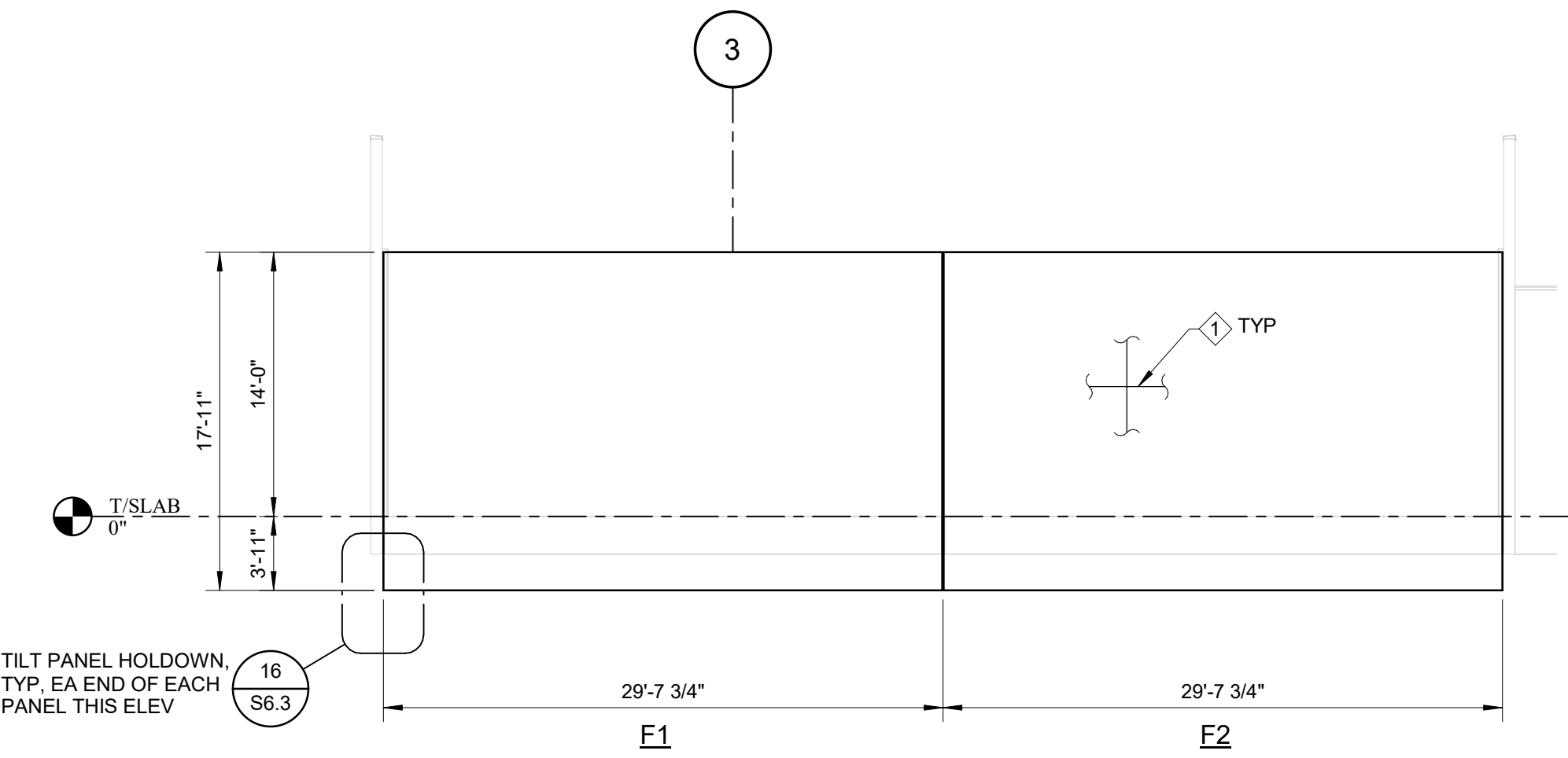
ELEVATION C
SCALE: 1/8" = 1'-0"



ELEVATION D
SCALE: 1/8" = 1'-0"



ELEVATION E
SCALE: 1/8" = 1'-0"



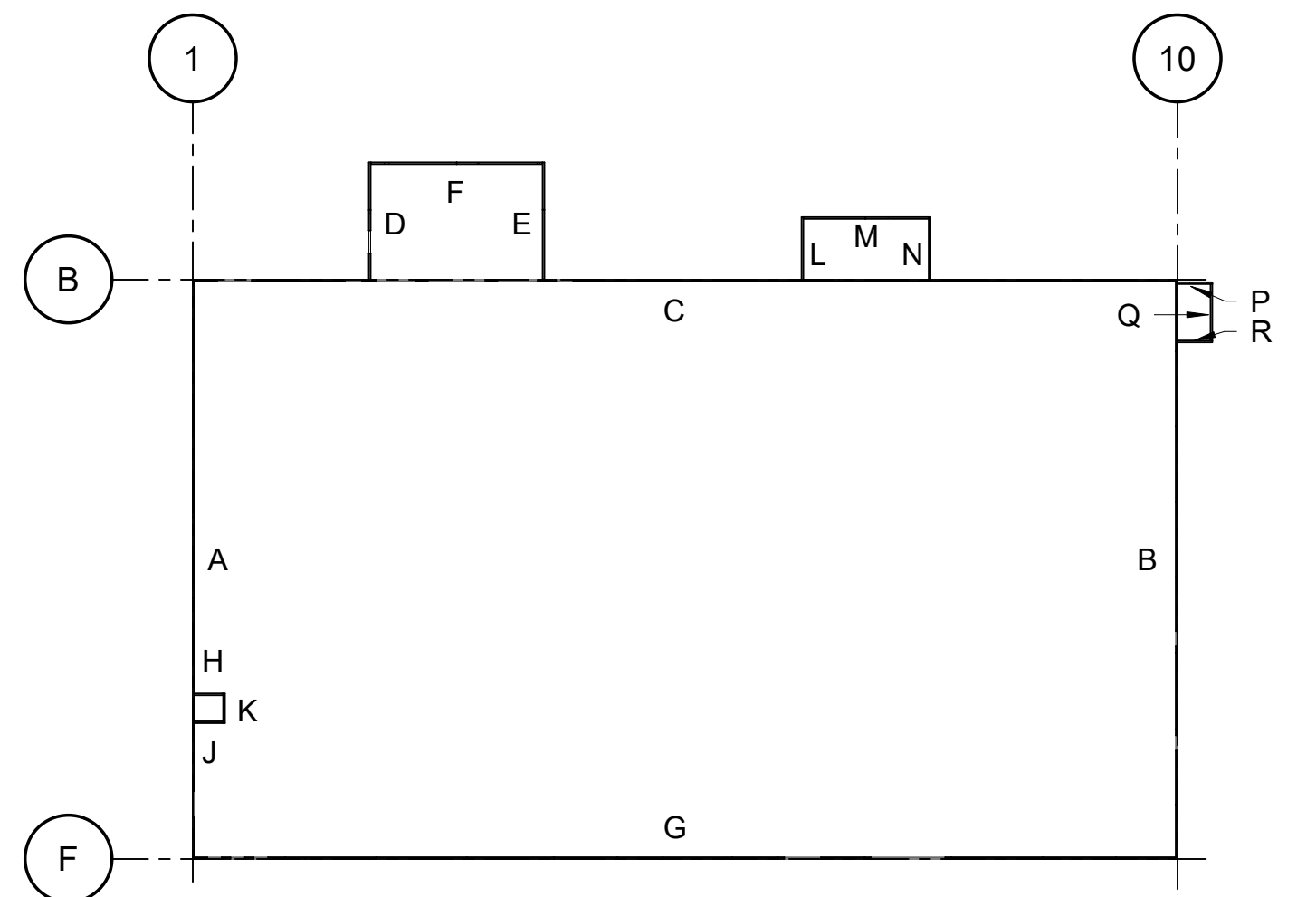
ELEVATION F
SCALE: 1/8" = 1'-0"

TILT-UP ELEVATION NOTES:

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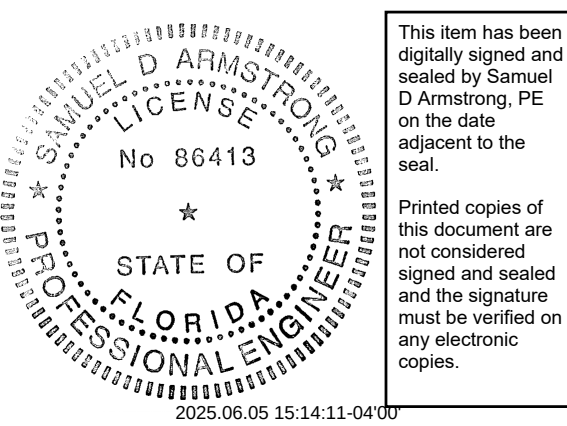
TILT-UP KEYNOTE LEGEND

- ① PANEL FIELD REINF. #5 @ 8" CTR'D VERT AND #5 @ 12" CTR'D HORIZ. TYP.
- ② PANEL OPENING REINF. SEE DETAIL 6/S6.3.
- ③ PANEL LEG REINF. (FULL HT WALL SEGMENT ≤ 5FT WIDE); #5 VERT @ 4" OC W/ #5 HORIZ @ 12" OC, TYP.
- ④ PANEL LEG REINF. (FULL HT WALL SEGMENT AS SHOWN ON ELEV); #5 VERT @ 4" OC EA FACE W/ #4 TIES @ 12" OC.



KEY PLAN

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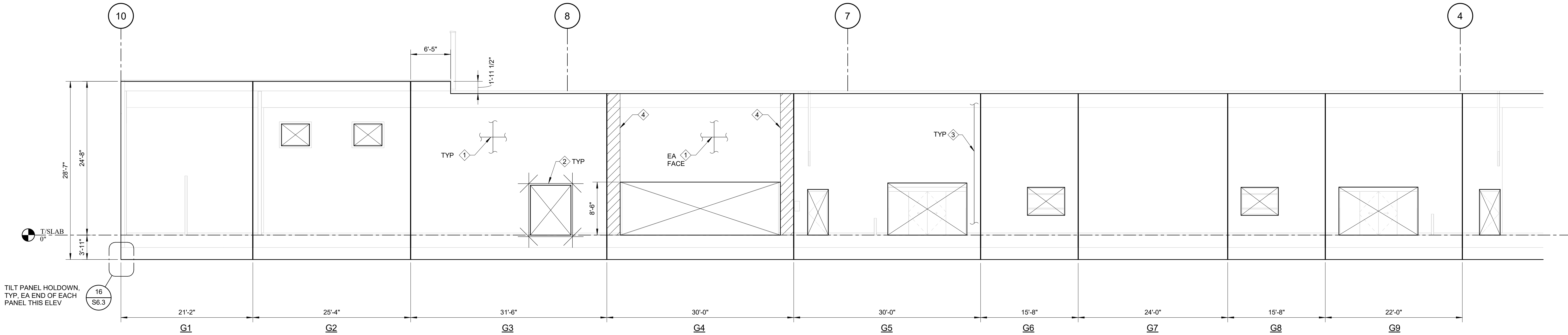
**TILT-UP
ELEVATIONS**

S7.2

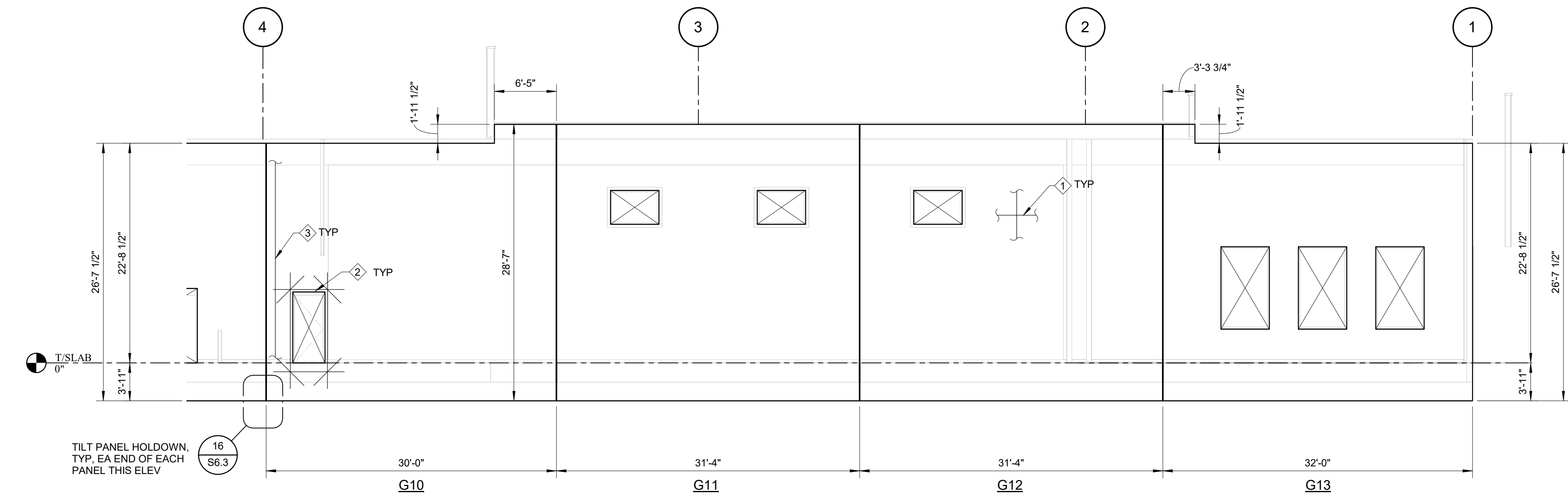
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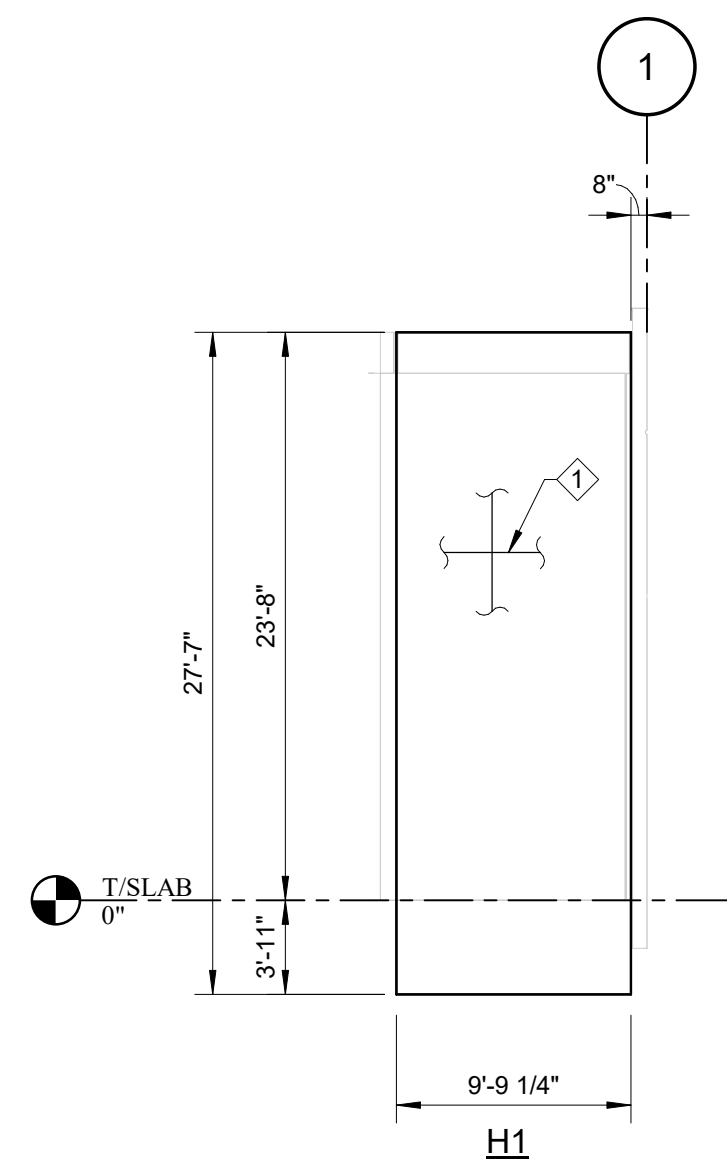
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CONSTRUCTION
DOCUMENTS**



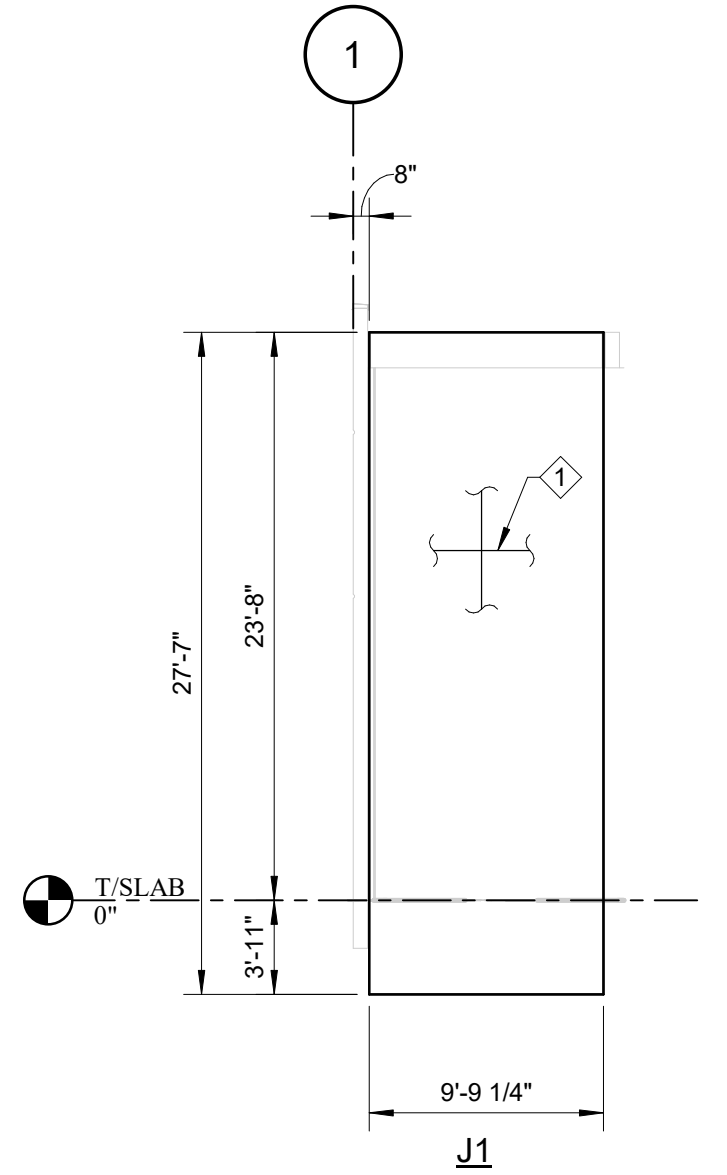
1
S7.3
ELEVATION G
SCALE: 1/8" = 1'-0"



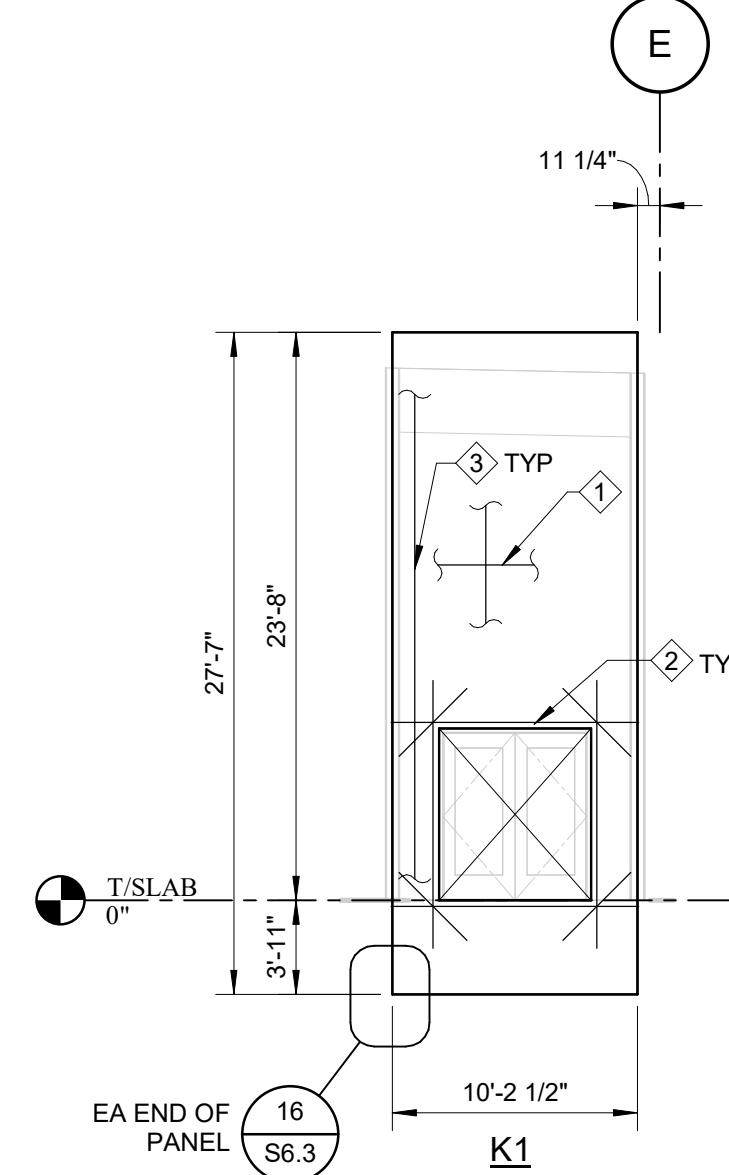
2
S7.3
ELEVATION G
SCALE: 1/8" = 1'-0"



3
S7.3
ELEVATION H
SCALE: 1/8" = 1'-0"



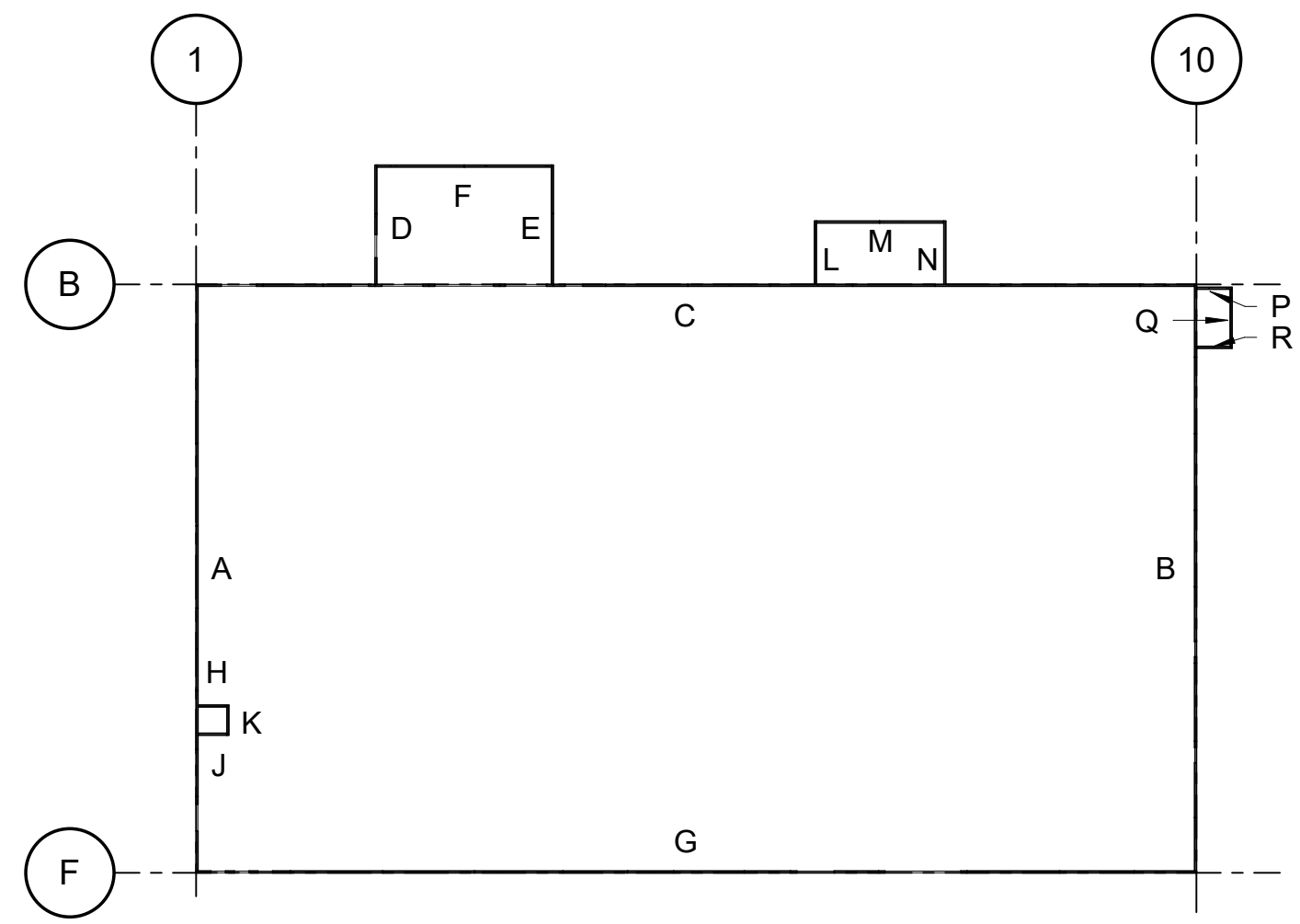
4
S7.3
ELEVATION J
SCALE: 1/8" = 1'-0"



5
S7.3
ELEVATION K
SCALE: 1/8" = 1'-0"

- TILT-UP ELEVATION NOTES:**
- 1) PANEL SHALL BE CONSTRUCTED WITH FAR SIDE DOWN UON.
 - 2) SEE DETAIL 1/S6.3 FOR REINFORCING PLACING DETAILS.
 - 3) FOR REINFORCING AROUND PANEL OPENINGS SEE DETAIL 6/S6.3 (VERTICAL REINFORCING SHOWN IN DETAIL NOT REQUIRED WHERE COLUMN CAGE REINFORCING IS SPECIFIED ON PANEL ELEVATIONS-COLUMN CAGE TO EXTEND FULL HEIGHT OF PANEL).
 - 4) SEE SHEET S6.3 FOR STANDARD PANEL DIMENSIONING METHODOLOGY, SECTIONS & DETAILS.
 - 5) PANELS COMPOSED OF NORMAL WEIGHT CONCRETE. SEE GENERAL NOTES FOR STRENGTH REQUIREMENTS.
 - 6) SEE ARCH ELEVATIONS FOR PANEL REVEALS AND DEPRESSIONS. SEE SECTION 2/S6.3 FOR REVEAL DETAIL.
 - 7) SEE DETAIL 12/S6.3 FOR SLAB DOWELS TO BE CAST INTO PANEL.
 - 8) SEE PANEL LIFTING INSERT SHOP DRAWINGS FOR ADDITIONAL REINFORCING REQUIREMENTS TO ACCOMMODATE LIFTING STRESSES, WHICH MAY EXCEED THE REINFORCING SPECIFIED ON ELEVATIONS ABOVE.
 - 9) WHERE PANEL REINFORCING IS SPECIFIED EA FACE (EF), EXCEPT @ REINFORCING CAGES w/ TIES, THE VERTICAL REINFORCING OF EA LAYER SHALL PLACED CLOSEST TO THE FACE OF THE PANEL.
 - 10) SEE 7/S6.3 FOR INFO AT PANEL JOINTS.
 - 11) SEE 5/S6.3 FOR ADDITIONAL REINFORCEMENT @TILT PANEL LIFTING INSERT.
 - 12) CONTRACTOR TO COORDINATE CONDUIT LOCATIONS w/ELECTRICAL SUBCONTRACTOR. CONDUITS SHALL BE PLACED PRIOR TO TILT WALL PLACEMENT. NO CUTTING OF REINFORCEMENT.
 - 13) CONTRACTOR TO COORDINATE FINAL SCUPPER LOCATIONS WITH ARCH.

- TILT-UP KEYNOTE LEGEND**
- ① PANEL FIELD REINF. #5 @ 8" CTR'D VERT AND #5 @ 12" CTR'D HORIZ. TYP.
 - ② PANEL OPENING REINF. SEE DETAIL 6/S6.3.
 - ③ PANEL LEG REINF (FULL HT WALL SEGMENT ≤ 5FT WIDE); #5 VERT @ 4" OC W/ #5 HORIZ @ 12" OC. TYP.
 - ④ PANEL LEG REINF (FULL HT WALL SEGMENT AS SHOWN ON ELEV); #5 VERT @ 4" OC EA FACE W/ #4 TIES @ 12" OC.



KEY PLAN

TO THE BEST OF THE ENGINEERS
KNOWLEDGE, THE PLANS AND
SPECIFICATIONS COMPLY WITH THE
APPLICABLE MINIMUM BUILDING
CODES FOR THIS PART OF THE WORK
IN ACCORDANCE WITH THE
APPLICABLE FLORIDA STATUTES.

ERIK C. KASPER AR#0017162

**BUSY BEE
ELLISVILLE**

136 SW WEBBS GLN
LAKE CITY, FL 32024

PROJECT NO.: 22024

DATE: 06/02/2025

PRIOR ISSUES:

**TILT-UP
ELEVATIONS**

S7.3

DRAWN BY: ES

CHECKED BY: CF

**100%
CONSTRUCTION
DOCUMENTS**

