

# DAVIS TECHNICAL COLLEGE WELDING TECHNOLOGY BUILDING

355 SOUTH 650 EAST, KAYSVILLE, UT 84037



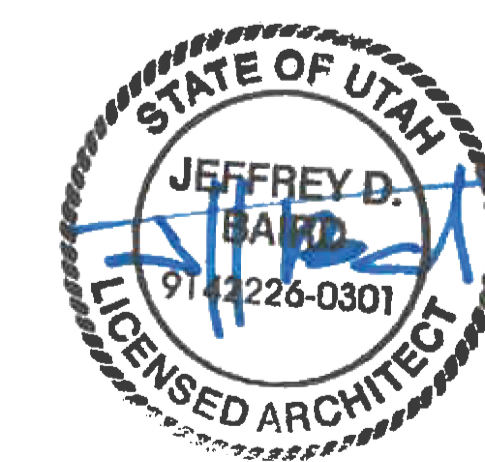
PROJECT **24-038**

BID PACKAGE #1 2024-08-26

REVISIONS  
NO. DATE DESCRIPTION



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WELDING TECHNOLOGY BUILDING**  
355 SOUTH 650 EAST  
KAYSVILLE, UT 84037



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NARRATIVE

**BID PACKAGE #1**

SITE & STRUCTURE - Major structural and site elements.

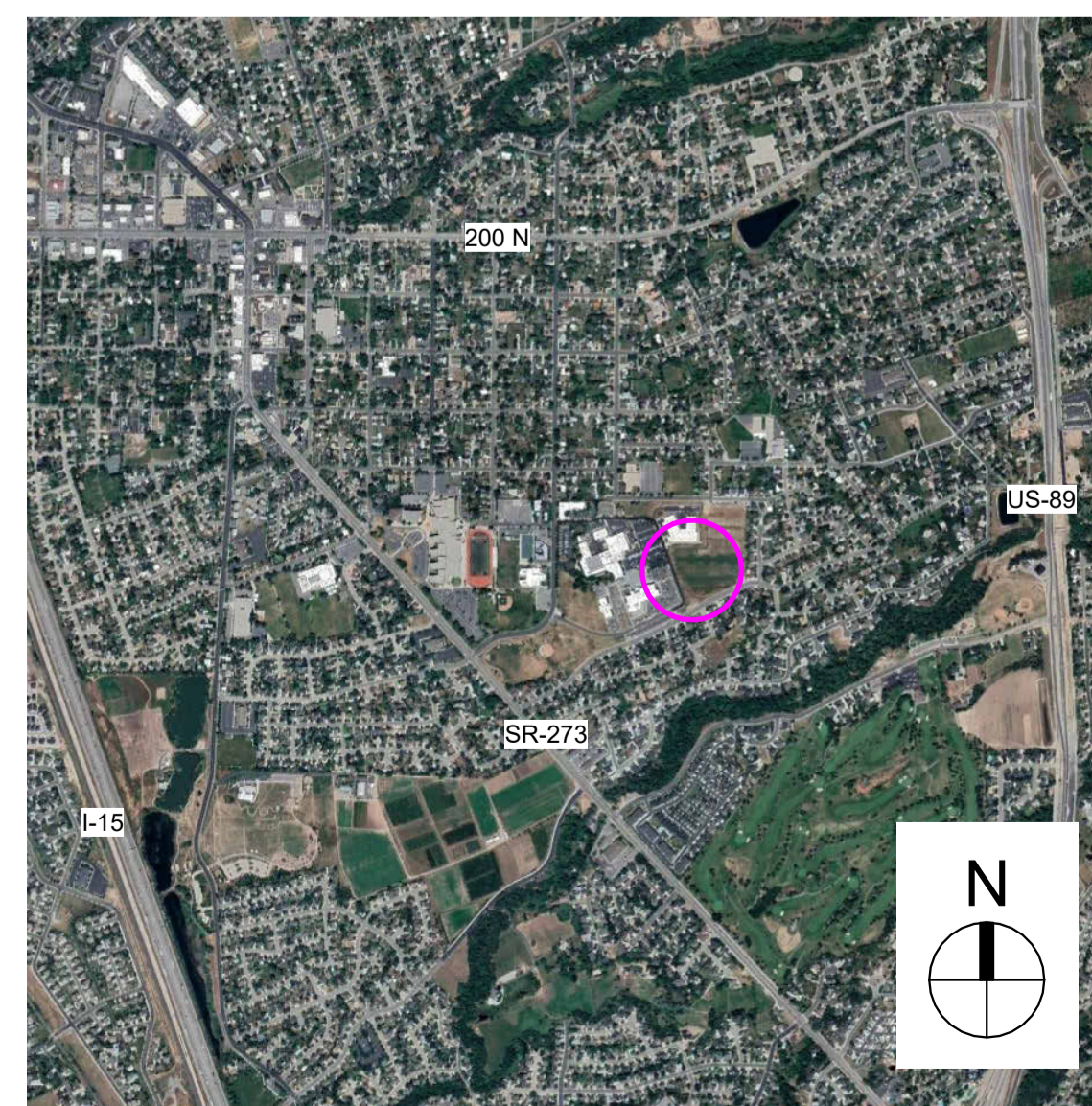
**BID PACKAGE #2**

CORE & SHELL - Exterior envelope and major MEP systems.

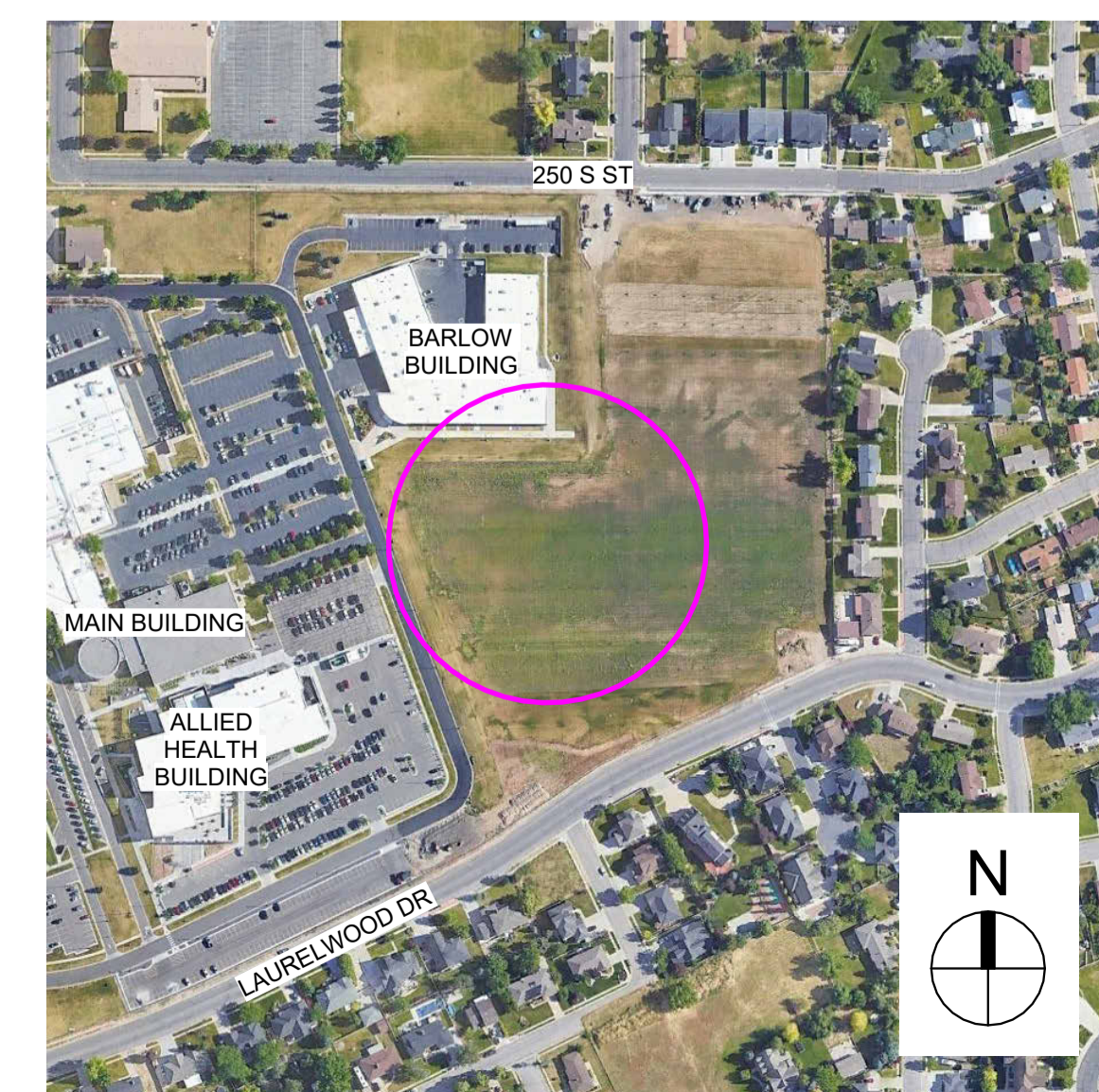
**BID PACKAGE #3**

INTERIOR FINISHES - Interior elements, including finishes and millwork.

LOCATION MAP



VICINITY MAP



**GENERAL**

- GI000.1 COVER SHEET
- GI001.1 SHEET INDEX
- GI002.1 CODE SUMMARY DFCM
- GI003.1 SPECIAL INSPECTIONS
- GI101.1 LEVEL 1 CODE PLAN

**CIVIL**

- CG400.1 GRADING PLAN
- CU300.1 UTILITY PLAN
- C500.1 EROSION CONTROL PLAN
- C510.1 EROSION CONTROL DETAILS

**ARCHITECTURAL SITE**

- AS101.1 ARCHITECTURAL SITE PLAN

**ARCHITECTURAL**

- AE100.1 DIMENSION CONTROL PLAN
- AE101.1 LEVEL 1 FLOOR PLAN
- AE171.1 LEVEL 1 REFLECTED CEILING PLAN
- AE191.1 ROOF PLAN
- AE201.1 BUILDING ELEVATIONS

**STRUCTURAL**

- SE001.1 GENERAL STRUCTURAL NOTES
- SE002.1 GENERAL STRUCTURAL NOTES
- SE003.1 GENERAL STRUCTURAL NOTES
- SE101.1 FOOTING AND FOUNDATION PLAN
- SE102.1 LOW ROOF FRAMING PLAN
- SE103.1 HIGH ROOF FRAMING PLAN
- SE201.1 ELEVATIONS
- SE211.1 BUILDING ELEVATIONS
- SE301.1 BUILDING SECTIONS
- SE501.1 FOOTING AND FOUNDATION DETAILS
- SE502.1 FOOTING AND FOUNDATION DETAILS
- SE701.1 ROOF FRAMING DETAILS
- SE702.1 ROOF FRAMING DETAILS
- SE703.1 ROOF FRAMING DETAILS
- SE704.1 STEEL STUD FRAMING DETAILS
- SE801.1 CONCRETE SCHEDULES
- SE802.1 STEEL SCHEDULES
- SE803.1 MASONRY SCHEDULES
- SE804.1 STEEL STUD SCHEDULES
- SE805.1 DIAPHRAGM SCHEDULE

**PLUMBING**

- PL111.1 PLUMBING PLAN -DRAIN/WASTE/VENT
- PL112.1 PLUMBING PLAN -WATER, GAS & COMPRESSED AIR
- PL401.1 ENLARGED PLUMBING PLANS

**ELECTRICAL**

- EE001.1 SHEET INDEX, AND ABBREVIATIONS
- ES101.1 ELECTRICAL SITE PLAN
- ES501.1 ELECTRICAL DETAILS
- EP601.1 ONE-LINE DIAGRAM



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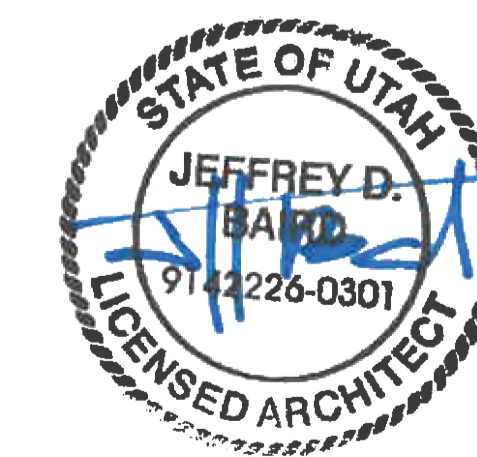
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**DAVISTECH**  
DAVIS TECHNICAL COLLEGE



SHEET INDEX  
**GI001.1**

DFCM GUIDELINES FOR SEISMIC RESTRAINT OF NONSTRUCTURAL COMPONENTS

1. General Comments: a) These guidelines shall apply to all nonstructural components installed in newly constructed buildings... 2. Checklist Requirements: a) All DFCM projects shall have the "Nonstructural Component Checklist" clearly shown on the front of the construction plans... 3. Submittal Requirements: a) The seismic restraint requirements for nonstructural components may be provided with the original construction documents... 4. Construction Documents: a) The construction documents must include seismic restraint details providing specific information relating to the materials, type, size, and locations of anchorages... 5. Seismic Restraint Design Requirements: a) Per IBC 1813.1, the seismic restraint of nonstructural components shall meet the requirements of ASCE 7... 6. Deferred Submittals: a) Deferred submittals of seismic restraint of nonstructural components must be submitted to the DFCM Building Official a minimum of two weeks prior to the planned installation...

DFCM SUBMITTAL NOTES

- 1. DEFERRED SUBMITTALS FOR SEISMIC RESTRAINT OF NONSTRUCTURAL COMPONENTS MUST BE SUBMITTED TO THE DFCM BUILDING OFFICIAL A MINIMUM OF TWO WEEKS PRIOR TO THE PLANNED INSTALLATION... 2. IF SEISMIC RESTRAINTS OF NON-STRUCTURAL COMPONENTS ARE INSTALLED PRIOR TO RECEIVING DFCM APPROVAL THEY SHALL NOT BE COVERED OR CONCEALED UNTIL RECEIVING BOTH PLAN REVIEW AND INSPECTION APPROVAL... 3. THE REQUIREMENTS FOR SEISMIC RESTRAINT OF NONSTRUCTURAL COMPONENTS CANNOT BE SATISFIED BY A GENERAL REFERENCE TO DESIGN MANUALS... 4. SUBMITTALS MUST INCLUDE DETAILS OF THE PROPOSED SEISMIC RESTRAINT OF NONSTRUCTURAL COMPONENTS... REQUIREMENTS FOR OCCUPANCY 1. A CODE INSPECTION REPORT RECOMMENDING THAT A CERTIFICATE OF OCCUPANCY BE ISSUED... 2. FINAL REPORT FROM THE SPECIAL INSPECTION AGENCY... 3. CERTIFICATE OF FIRE CLEARANCE FROM THE STATE FIRE MARSHALL... 4. FINAL APPROVAL FROM THE STATE ELEVATOR INSPECTOR, IF APPLICABLE... 5. FINAL APPROVAL FROM THE STATE BOILER INSPECTOR, IF APPLICABLE... 6. REPORT OF THE DISINFECTION OF THE POTABLE WATER SYSTEM, IPC 610... 7. A CERTIFICATE OF COMPLIANCE FROM THE APPROVED FABRICATOR, IF A APPLICABLE, IBC 1704.2.2... 8. A STAMPED AND SIGNED FINAL REPORT FROM THE STRUCTURAL ENGINEER WHEN STRUCTURAL OBSERVATION IS REQUIRED BY IBC 1710... 9. FINAL REPORT FROM THE SPECIAL INSPECTOR AND THE MECHANICAL ENGINEER WHEN SMOKE CONTROL IS REQUIRED... 10. THE NFRC CERTIFICATE TO SHOW COMPLIANCE WITH THE FENESTRATION REQUIREMENTS OF THE INTERNATIONAL ENERGY CODE.

NONSTRUCTURAL COMPONENT CHECKLIST

Table with 5 columns: ITEM DESCRIPTION, NOT REQUIRED, ON CONST. DOCUMENTS, DEFERRED SUBMITTAL, COMMENTS. Rows include ARCHITECTURAL COMPONENTS (Interior Nonstructural Walls & Partitions, Cantilever Elements, etc.), MEP COMPONENTS (Fire Sprinklers, Mechanical Equipments, etc.), and other structural elements.

CODE ANALYSIS

Table with 3 columns: Code Name, Year, Code Name, Year. Includes International Building Code 2021, National Electrical Code 2020, International Mechanical Code 2021, etc.

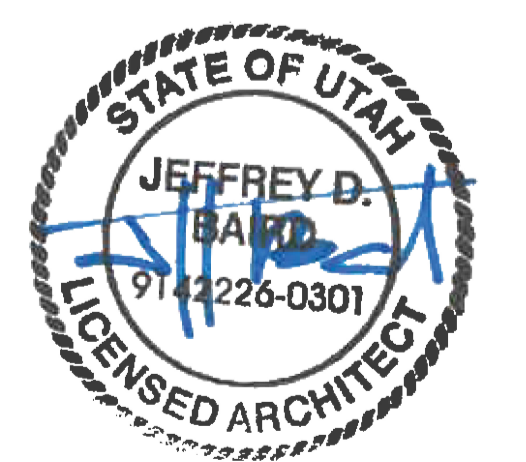
- A. Occupancy and Group: B Change in Use: Yes No X Mixed Occupancy: Yes No X Special Use and Occupancy (e.g. High Rise, Covered Mall): N/A B. Seismic Design Category: D Design Wind Speed: 105 mph C. Type of Construction (circle one): I A, II A, III A, IV HT, V A, VI B D. Fire Resistance Rating Requirements for the Exterior Walls based on the fire separation distance (in hours): North: 0 South: 0 East: 0 West: 0 E. Mixed Occupancies: Nonseparated Uses: F. Sprinklers: Required: Provided: Type of Sprinkler System: FULL NFPA-13 G. Number of Stories: 1 Building Height: 20'-0" H. Actual Area per Floor (square feet): 17,052 I. Tabular Area: 36,000 J. Area Modifications: N/A a) N/A b) Sum of the Ratio Calculations for Mixed Occupancies: Actual Area <= 1 Allowable Area c) Total Allowable Area for: 1) One Story: N/A 2) Two Story: A (2) N/A 3) Three Story: A (3) N/A d) Unlimited Area Building: Yes No X Code Section: TABLE 507.4 K. Fire Resistance Rating Requirements for Building Elements (hours).

Table with 6 columns: Element, Hours, Assembly Listing, Element, Hours, Assembly Listing. Rows include Exterior Bearing Walls, Interior Bearing Walls, Exterior Non-Bearing Walls, Structural Frame, Partitions - Permanent, Fire Barriers.

- L. Design Occupant Load: 147 Stair Occupant Load: N/A Exit Width Required: 30" Stair Width Required: N/A Exit Width Provided: 144" Stair Width Provided: N/A M. Minimum Number of Required Plumbing Facilities: a) Water Closets - Required 4 Total Provided: 5 b) Lavatories - Required 3 Total Provided: 4 c) Bath Tubs or Showers: Required: 0 Provided: 0 d) Drinking Fountains: 2 Service Sinks: 1 Provided Level 1: (DF) 2, Level 1: (SS) 1

- FOOTNOTES: 1) In case of conflict with the U.S. Department of Justice Federal Registers Parts I through V - ADA Guidelines and specific reference to the International Building Code Accessibility Chapters, the more restrictive requirement shall govern. 2) Additional Code Information shall be provided at the discretion of the Building Official for Complex Buildings. Including, but not limited to: a) High Rise Requirements. b) Atriums. c) Performance Based Criteria. d) Means or Egress Analysis. e) Fire Assembly Locator Sheet. f) Exterior and Interior Accessibility Route. g) Fire Stopping, Including Tested Design Number.

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GENERAL NOTES

- GENERAL CONTRACTOR SHALL FIELD VERIFY ALL CONDITIONS AND SHALL REPORT TO THE ARCHITECT ANY UNKNOWN CONDITIONS, ERRORS OR CONFLICT IN THE DRAWINGS BEFORE BEGINNING WORK.
- DO NOT SCALE DRAWINGS
- ITEMS HALF-TONED SHOWN FOR REFERENCE ONLY.



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CODE PLAN LEGEND

ASSEMBLY GROUP A - SMALL ASSEMBLY SPACE (OCCUPANT LOAD < 50) - FIXED SEATS	
BUSINESS AREAS (150 GROSS)	
ACCESSORY STORAGE AREAS, MECHANICAL EQUIPMENT ROOM (300 GROSS)	
COMMON PATH OF TRAVEL	
TOTAL PATH OF TRAVEL	

KEYNOTES

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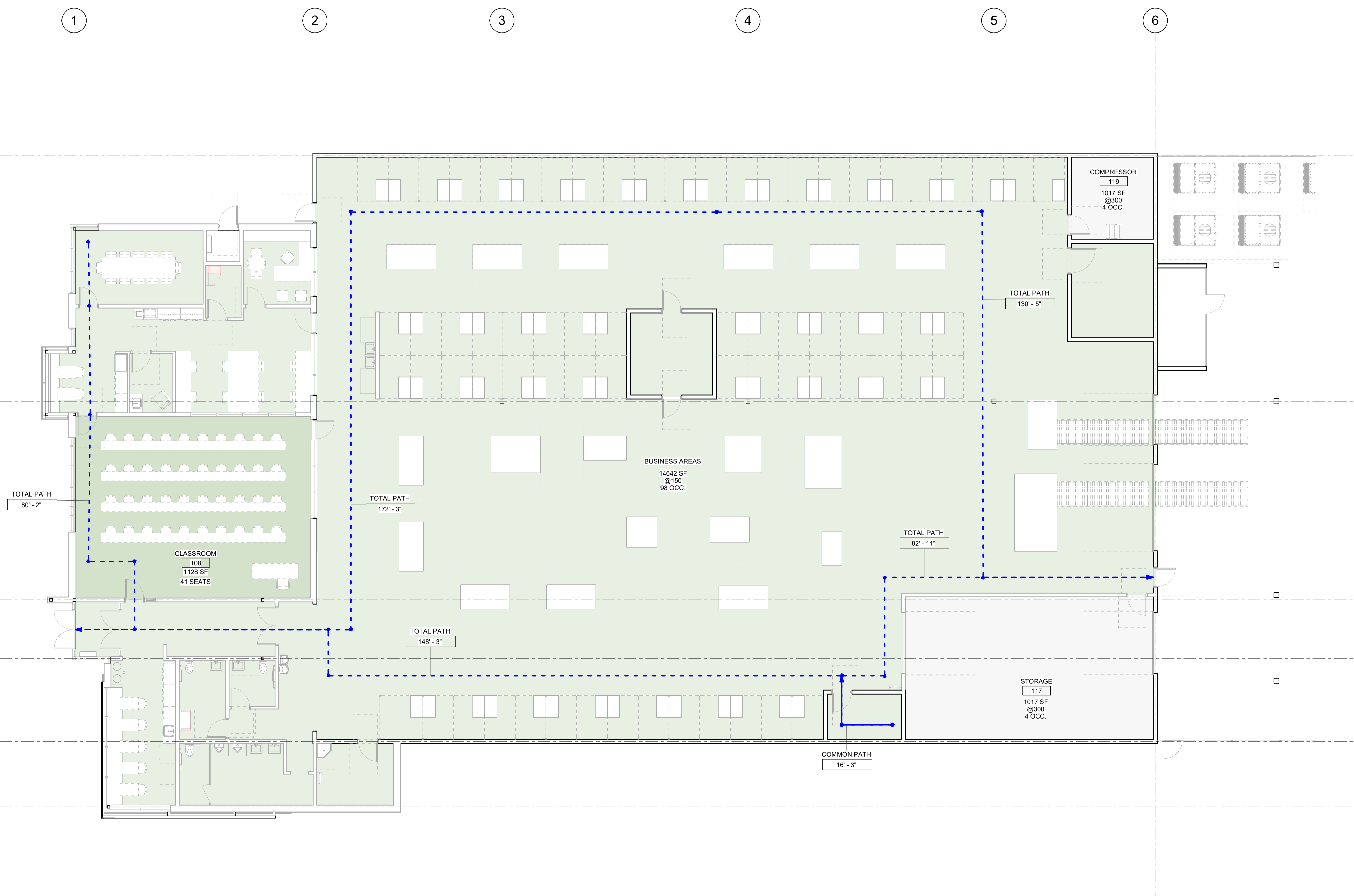
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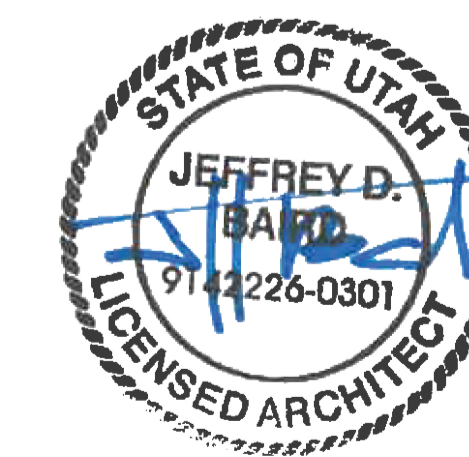
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LEVEL 1 CODE  
PLAN  
**G1101.1**

1

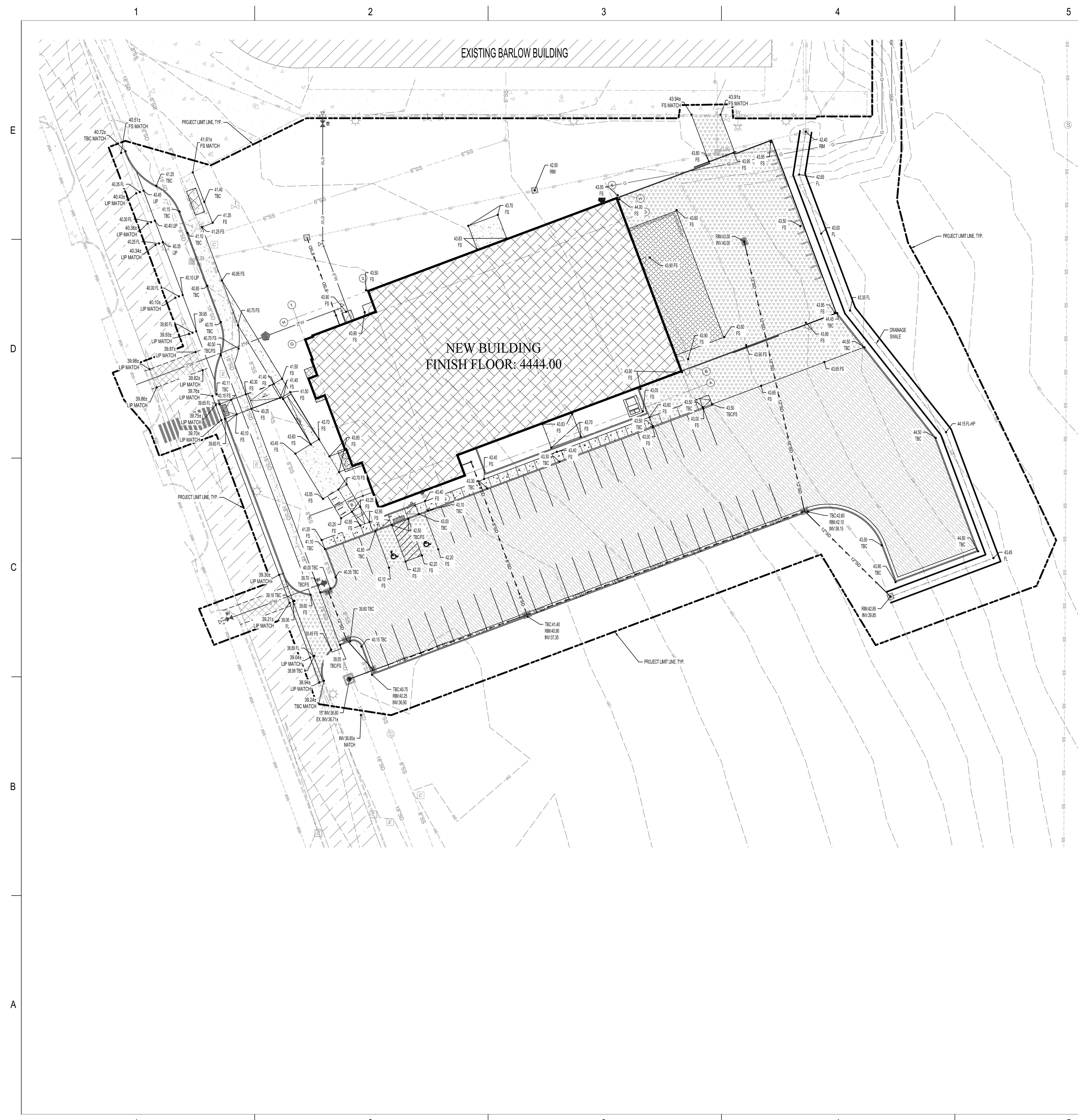
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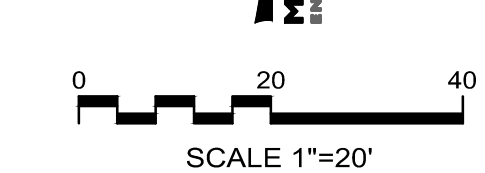
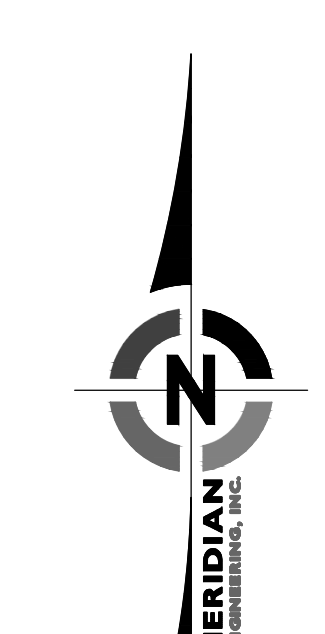


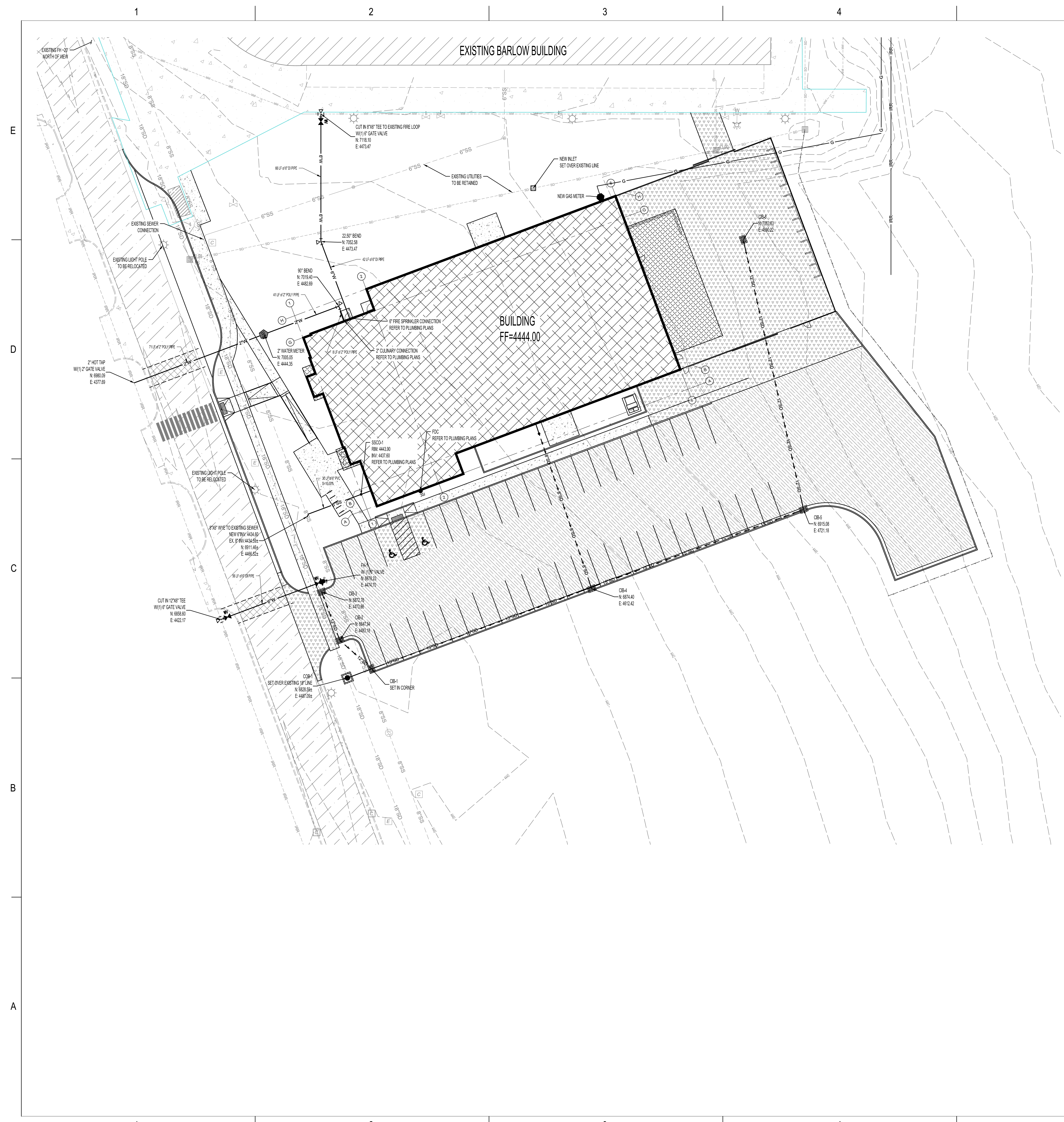
- GENERAL GRADING NOTES:
- HANDICAP PARKING AREA SHALL NOT EXCEED 2% IN ANY DIRECTION. THE PERPENDICULAR CROSS SLOPE TO PARKING STALL IN OTHER AREAS OF THE PARKING LOT SHALL NOT EXCEED 0% IN SLOPE AND SLOPE SHALL NOT EXCEED 6% IN ANY DIRECTION FOR PARKING AREAS.
  - ALL WALKWAYS SHALL NOT EXCEED 2% SLOPE MAX. FROM BUILDING OR STAIR RISERS FOR 6" MIN. REFER TO PLAN AT ALL DOORWAYS TO THE BUILDING. ALSO SLOPE 2% MAX FOR 5' AT THE END OF THE 1:12 SLOPE OF ALL H.C. RAMPS. ALL STEPS AND RAMPS ARE DETAILED ON THE ARCHITECTURAL SITE PLANS.
  - SITE CLEARING, SUBGRADE PREPARATION, EXCAVATION, AND BACKFILL WILL BE IN ACCORDANCE WITH THE REQUIREMENTS OUTLINED IN THE GEOTECHNICAL REPORT. SITE PAVEMENT THICKNESS WILL ALSO BE IN ACCORDANCE WITH THE GEOTECHNICAL REPORT. USE MINIMUM PAVEMENT THICKNESS OUTLINE IN NOTES 4 AND 5 IF GEOTECHNICAL REPORT HAS LESS STRINGENT REQUIREMENTS.
  - CONCRETE DRIVEWAY TO BE CONSTRUCTED PER APWA STANDARD PLAN 225. ALL OTHER CONCRETE PAVEMENT FOR VEHICLES SHALL BE A MINIMUM OF 8" OF CONCRETE (4500 psi) OVER 4" OF BASE COURSE.
  - ALL ASPHALT PAVING TO BE 4" OF ASPHALT (1 1/2" OF 1/2" MIX OVER 2 1/2" OF 3/4" MIX) OVER 8" OF BASE COURSE.
  - ALL CONCRETE AND ASPHALT PAVEMENT TO MEET REQUIREMENTS OF THE APWA SPECIFICATIONS. BASE COURSE TO MEET UDOT SPECIFICATIONS (1 1/2" GRADATION).

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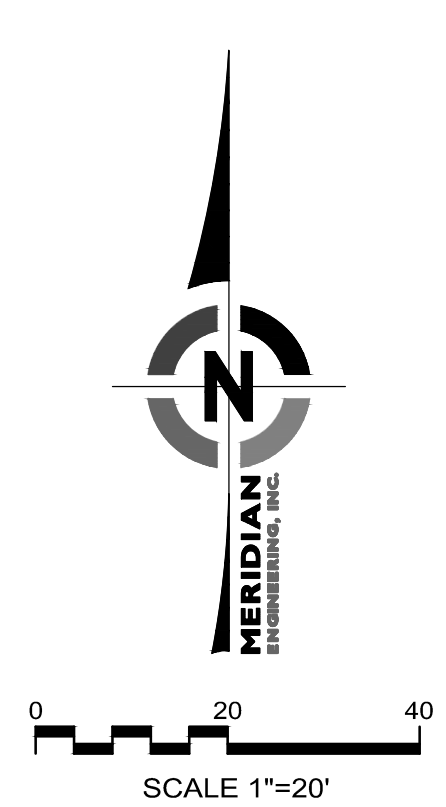


- GENERAL UTILITY NOTES:
- PLUMBING CONTRACTOR WILL TERMINATE THEIR ROOF DRAIN LINES WITH A CLEAN OUT APPROXIMATELY 5' FROM THE BUILDING. COORDINATE WITH PLUMBING CONTRACTOR ON SCHEDULE AND ALIGNMENT OF ROOF DRAIN LINES NEAR THE BUILDING.
  - ALIGN ALL INTERIOR AND EXTERIOR UTILITIES. SITE UTILITY CONTRACTOR TO COORDINATE PLACEMENT HORIZONTALLY AND VERTICALLY WITH BUILDING PLUMBING CONTRACTOR. SITE INTERFACE LINE BETWEEN THE BUILDING PLUMBING CONTRACTOR AND THE SITE UTILITY CONTRACTOR WILL BE AT 5' FROM THE BUILDING AND EXCEPT FOR THE FIRE SPRINKLER LINE AND WATER LINES A CLEAN OUT WILL BE INSTALLED BY THE PLUMBING CONTRACTOR APPROXIMATELY 5' FROM THE BUILDING FOR STORM DRAIN AND SEWER LINES. CONNECTION TO BUILDING PIPING AND ALL PIPING BEYOND THIS INTERFACE SHALL BE THE SITE UTILITY CONTRACTOR'S RESPONSIBILITY. PROVIDE REDUCERS, ADAPTERS, OR OTHER FITTINGS AS REQUIRED AT THE INTERFACES TO CONNECT TO BLDG. PIPE. COLLECT ROOF DRAIN LINES AS SHOWN AND ROUTE TO NEW CATCH BASINS OR CLEAN OUTS ON SITE. PREFERRED SLOPES, APPROXIMATE DISTANCES, AND INVERTS OF GRAVITY PIPING ARE SHOWN ON THE PLAN MAY REQUIRE ADJUSTMENT TO CONNECT TO BUILDING ROOF OR SEWER DRAIN LINES. MAINTAIN 2% SLOPE FOR 4\"/>
  - SITE CONTRACTOR SHALL COORDINATE WITH KAYSVILLE CITY INSPECTOR WHEN COMPLETING CONNECTIONS TO LINES ALONG DAVIS TECH DRIVE OR ON SITE WHERE REQUIRED. ALL WATER AND SEWER SYSTEM DETAILS AS WELL AS INSPECTIONS FOR THE ENTIRE SITE SHALL BE IN ACCORDANCE WITH CENTRAL DAVIS SEWER DISTRICT AND KAYSVILLE CITY STANDARD DETAILS AND SPECIFICATIONS. SEE GENERAL NOTES ON SHEET C-100. WHERE THREAT BUILDING CANNOT BE CONNECTED TO OTHER ADJACENT UTILITIES OR OTHER SITE CONSTRAINTS, RESTRAINED JOINTS WILL BE REQUIRED PER CITY STANDARD SPEC'S THURST BLOCK ALL WATERLINE FITTINGS PER CITY STANDARDS TYP.
  - NO CONNECTION SHALL BE ALLOWED TO THE 8\"/>
  - COORDINATES FOR FIRE HYDRANTS, 30\"/>
  - ALL VALVES, AREA CATCH BASINS (NOT IN C&G), CLEAN OUTS, OR MANHOLES SHALL HAVE CONCRETE GRADE ADJUSTMENT COLLARS PLACED AROUND THE STRUCTURE.
  - STORM DRAIN CLEAN OUTS TO BE SIMILAR TO DETAIL SHOWN ON PLUMBING PLANS.
  - ROOF DRAIN CONNECTIONS AT CATCH BASINS OR CLEAN OUT BOXES TO BE CORE DRILLED AND EPOXY GROUTED INTO PRECAST BOXES DUE TO FIELD ADJUSTMENTS WHICH MAY BE NECESSARY TO CONNECT TO BUILDING PIPING.
  - THE FIRE SPRINKLER LINE AND DOMESTIC WATER LINES SHALL BE ROUTED INTO THE FIRE SPRINKLER ROOM INSIDE THE BUILDING AND TERMINATE 12\"/>
  - ALL PAVEMENT REPAIR IN DAVIS TECH DRIVE TO BE IN ACCORDANCE WITH APWA STANDARDS. REPAIRS TO MATCH EXISTING PAVEMENT THICKNESS. USE 6\"/>
  - ALL CONSTRUCTION PIPING MATERIALS AND INSTALLATION TO BE PER CITY STANDARDS FOR CULINARY WATER, SANITARY SEWER LINES AND STORM DRAIN LINES.
- NEW WATER LINES - KAYSVILLE CITY STDS. TO METER CONNECTION, DIP CLASS 51, FIRE SPRINKLER & 4\"/>

SEWER LINES AND MANHOLES - CENTRAL DAVIS SEWER DISTRICT STDS., PVC PIPING (SDR 35), PRECAST MANHOLES.

STORM DRAIN - KAYSVILLE CITY STDS., RCP (CLASS III), ALONG DAVIS TECH DRIVE, 12 TO 15\"/>

ROOF DRAIN PIPING - PROJECT PLUMBING SPECIFICATIONS, CAST IRON SOIL PIPE 4\"/>



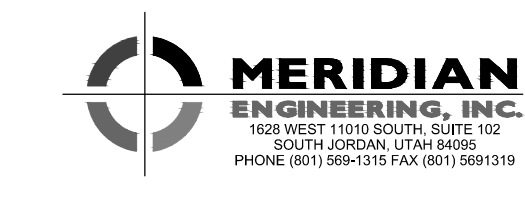
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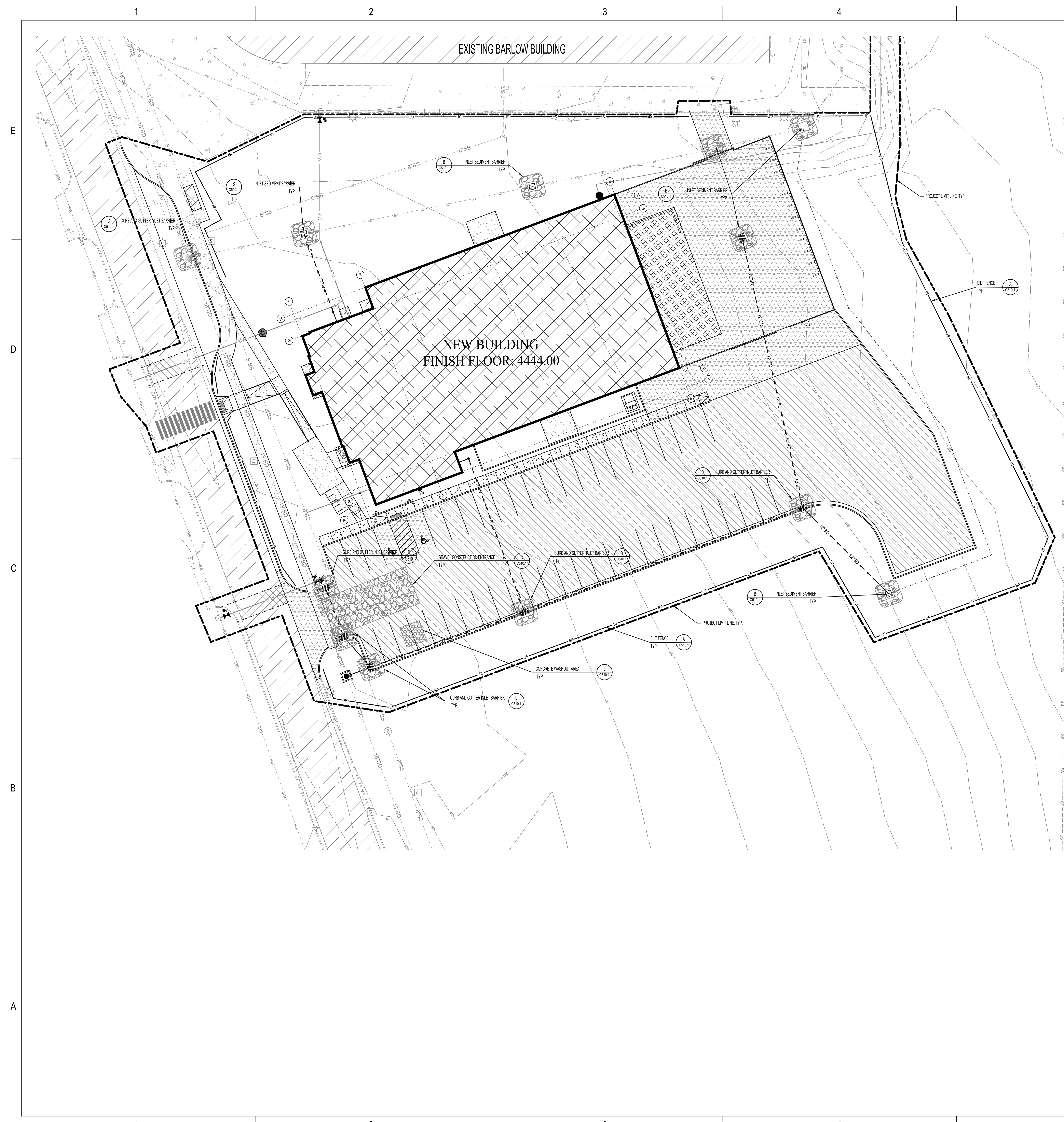
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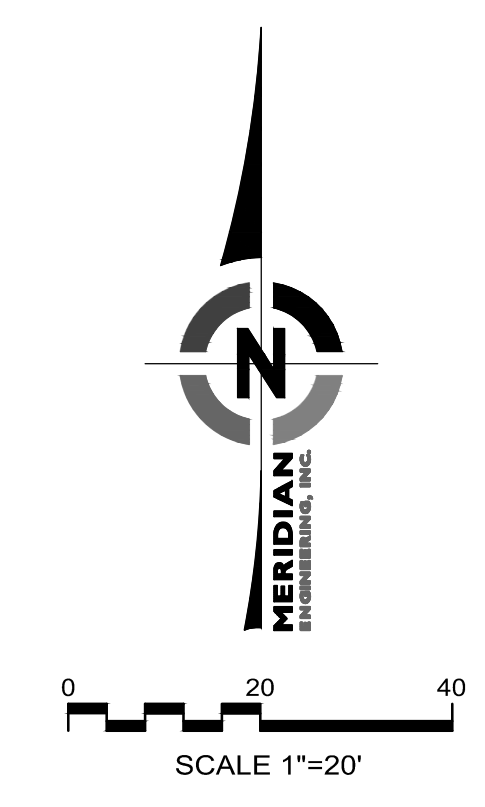


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- NOTES:
- 1) THERE ARE ABOUT 2.35 ACRES WITHIN THE PROJECT BOUNDARY THAT WILL BE DISTURBED WITH NEW CONSTRUCTION OR CONTRACTOR STORAGE ACTIVITIES.
- SEQUENCE OF CONSTRUCTION ACTIVITIES:
- 1) FIELD MARK LIMIT OF DISTURBANCE FOR APPROVAL BY KAYSVILLE CITY AND OBTAIN A STORM WATER MANAGEMENT PERMIT AS NEEDED BY KAYSVILLE CITY.
  - 2) INSTALL SILT FENCE AND/OR ENVIRONMENTAL FENCE AROUND PERIMETER OF PROJECT AS INDICATED ON THIS PLAN SHEET.
  - 3) INSTALL SEDIMENT CONTROL MEASURES INDICATED IN ALL EXISTING STORM DRAIN INLETS ADJACENT TO THE CONSTRUCTION SITE.
  - 4) CONTRACTOR WILL BEGIN DEMOLITION, GRADING, EXCAVATION, AND CONSTRUCTING UTILITY SITE IMPROVEMENTS, AS NEW DRAINAGE ELEMENTS ARE COMPLETED, CONSTRUCT SEDIMENT PROTECTION AT ALL NEW INLETS.
  - 5) AREAS DISTURBED BY CONSTRUCTION ACTIVITIES WILL BE STABILIZED WITH SOD IN LANDSCAPED AREAS AND PAVEMENT IN PARKING AND DRIVEWAY AREAS. SITE STABILIZATION OF AREAS DISTURBED BY CONSTRUCTION ACTIVITIES TO BE COMPLETED WITHIN 21 DAYS OF FINISHING AN AREA TO THE FINAL LINES AND GRADES INDICATED ON THE GRADING PLAN.
  - 6) UPON LANDSCAPE ESTABLISHMENT, REMOVE TEMPORARY MEASURE & CLEAN STORM DRAIN SYSTEM PRIOR TO RELEASE OF SYSTEM TO THE OWNER.
- RUNOFF COEFFICIENTS AND DISCHARGE:
- 1) THE EXISTING RUNOFF COEFFICIENT FOR THE PROJECT AREA IS ESTIMATED TO BE 0.2. THE NEW RUNOFF COEFFICIENT WILL BE APPROXIMATELY 0.62 FOR THE NEW IMPROVEMENTS.
  - 2) RUNOFF WILL BE COLLECTED ON SITE AND RETAINED IN AN UNDERGROUND DETENTION POND.
- POST CONSTRUCTION STORM WATER MANAGEMENT PRACTICES:
- 1) THE OWNER WILL SUBMIT POST CONSTRUCTION BEST MANAGEMENT PRACTICES TO KAYSVILLE CITY.
- GENERAL STORM WATER POLLUTION CONTROL NOTES:
- 1) SEE CS10 FOR STORM WATER POLLUTION CONTROL NOTES AND GENERAL PRACTICES.
  - 2) ALL CONSTRUCTION PERIOD BEST MANAGEMENT PRACTICES ARE TO BE INSPECTED AND MAINTAINED AT LEAST WEEKLY, ALSO BEFORE AND AFTER EACH STORM EVENT.
  - 3) CONTRACTOR SHALL BE REQUIRED TO KEEP RECORD OF ALL INSPECTIONS AND MAINTENANCE ON SITE WITH THE STORM WATER POLLUTION PREVENTION PLAN.



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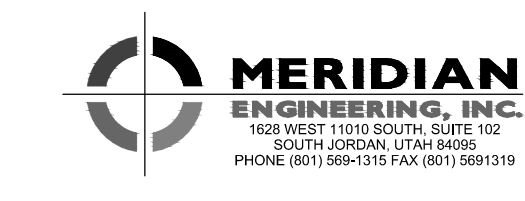
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EROSION  
CONTROL PLAN  
**C500.1**

(801) 355-5915



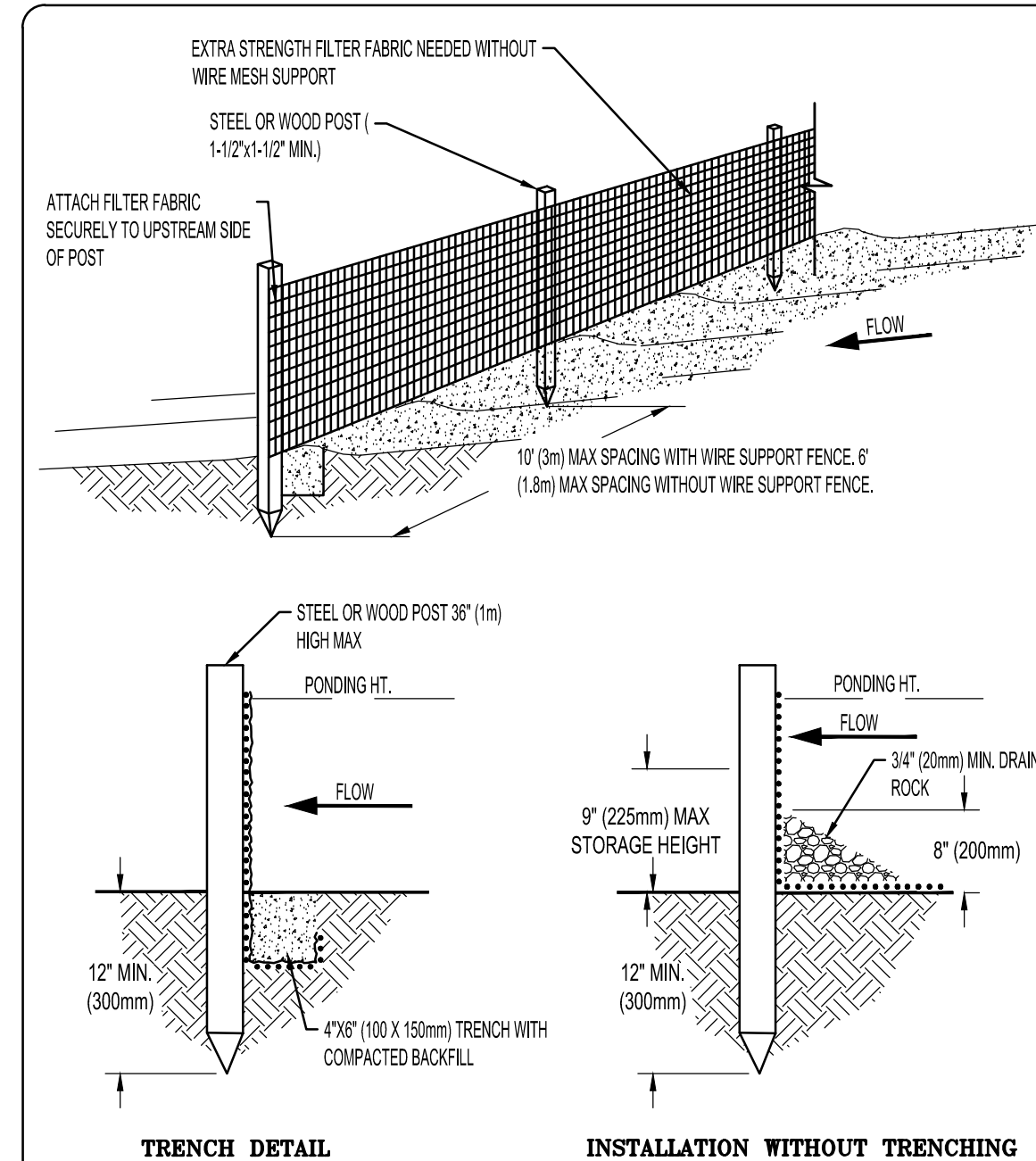


SILT FENCES, INSTALLATION OF SILT FENCES NOTE

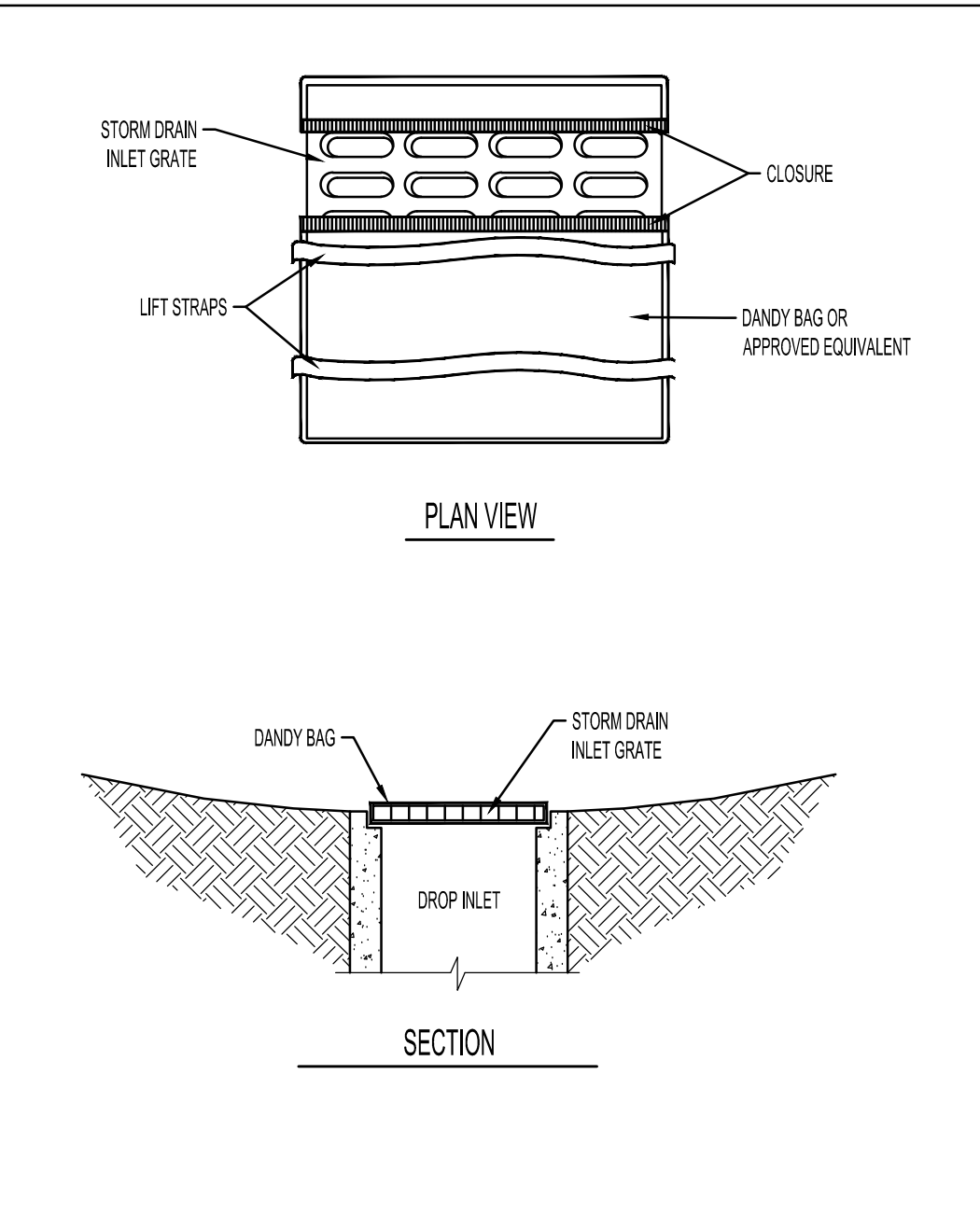
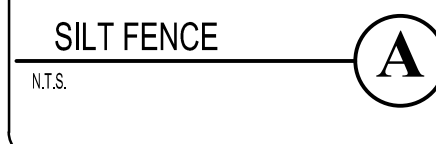
- 1. DIG OR TRENCH A FOUR INCH WIDE BY SIX INCH DEEP TRENCH... 2. ROLL OUT SILT FENCE MATERIAL ALONG THE FRONT OF THE TRENCH... 3. STARTING AT ONE END, DRIVE THE FIRST STAKE AT LEAST 10 INCHES INTO THE GROUND... 4. AT THE NEXT STAKE, PULL THE MATERIAL TAUT BEFORE DRIVING THE SECOND STAKE INTO THE GROUND... 5. REPEAT STEP 4 UNTIL THE STAKES ARE DRIVEN INTO THE GROUND... 6. WHEN ATTACHING TWO LENGTHS OF FENCE TOGETHER, DO THE FOLLOWING: 6.1 PLACE THE END POST OF THE SECOND FENCE INSIDE THE END POST OF THE FIRST FENCE... 6.2 ROTATE BOTH POSTS AT LEAST 180 DEGREES IN A CLOCKWISE DIRECTION... 6.3 DRIVE BOTH POSTS INTO THE GROUND SO THAT 8-12 INCHES OF MATERIAL REMAINS IN THE GROUND.

EROSION CONTROL, GENERAL NOTES

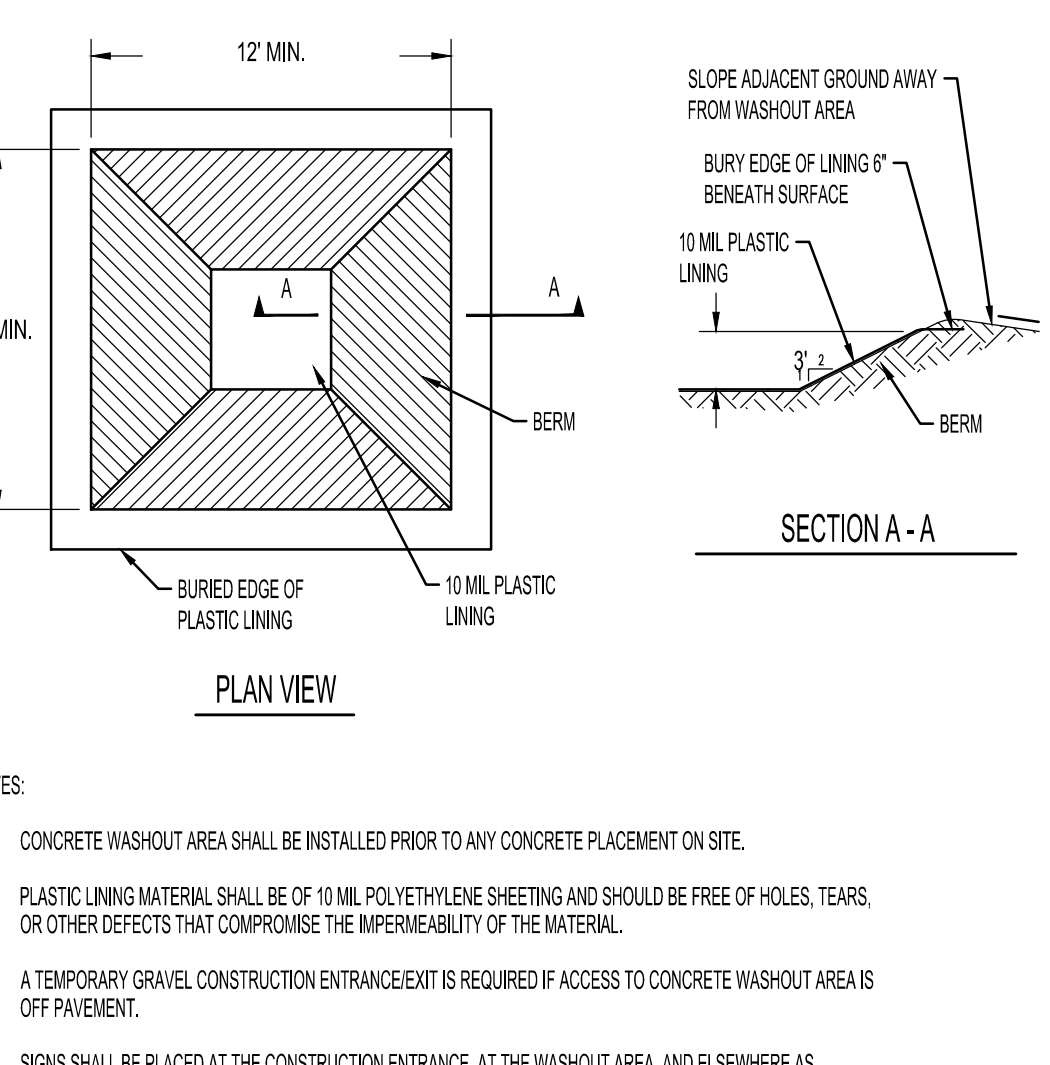
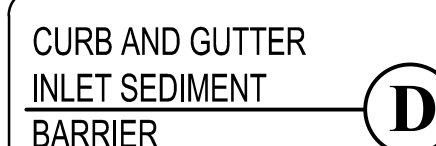
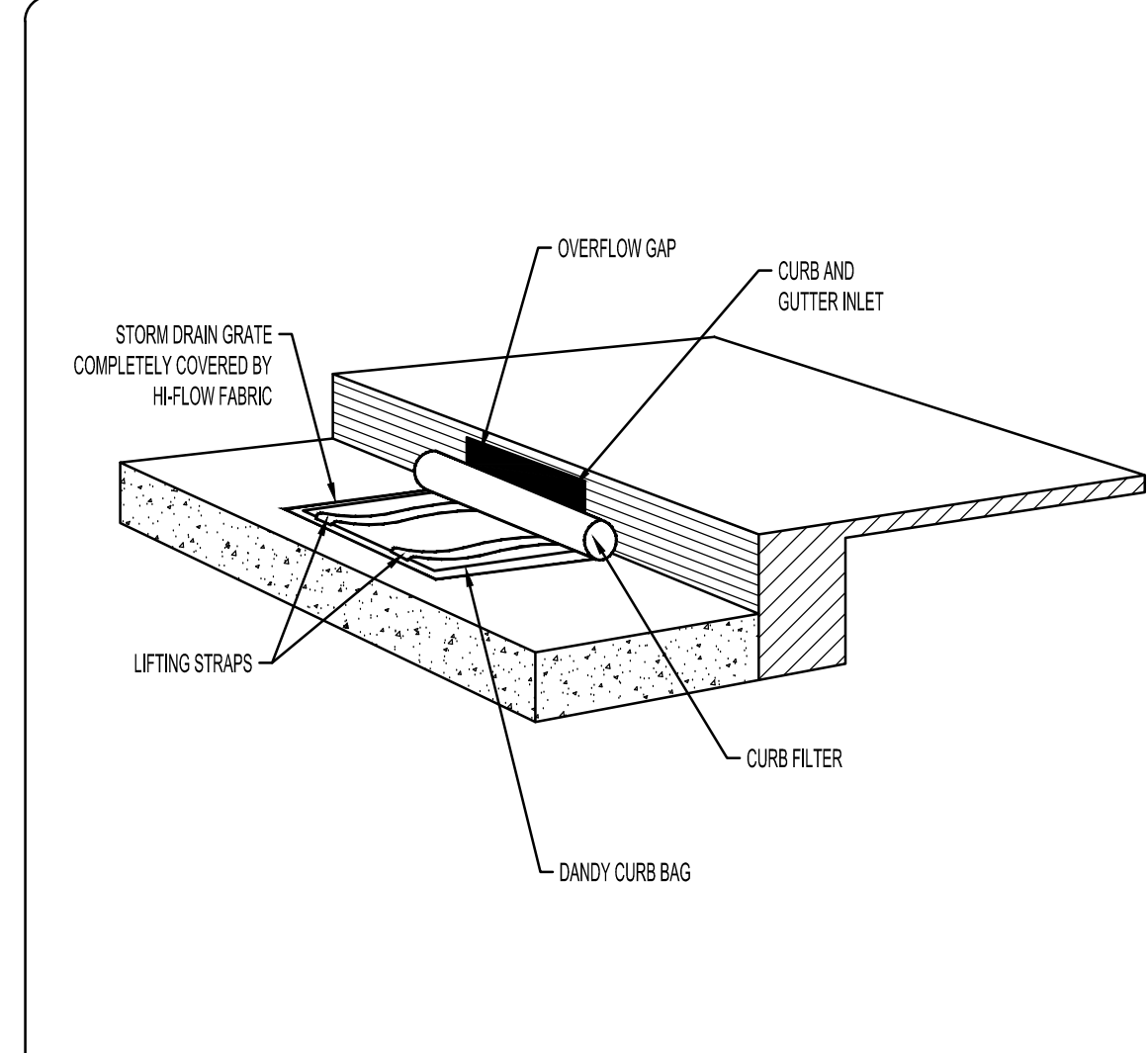
- 1. AT ALL TIMES DURING CONSTRUCTION, THE CONTRACTOR SHALL BE RESPONSIBLE FOR PREVENTING AND CONTROLLING EROSION... 2. ADDITIONAL EROSION CONTROL MEASURES MAY BE REQUIRED... 3. ALL BEST MANAGEMENT PRACTICES AND EROSION CONTROL MEASURES ARE TO CONFORM TO THE CITY LAND DISTURBANCE DESIGN AND CONSTRUCTION STANDARDS... 4. THE CONTRACTOR IS RESPONSIBLE FOR KEEPING THE STREETS CLEAN AND FREE FROM DEBRIS... 5. ALL STORM DRAIN FACILITIES ON SITE AND ADJACENT TO THE SITE... 6. ALL AREAS DISTURBED DURING CONSTRUCTION SHALL BE PAVED, SEEDED WITH NATIVE VEGETATION OR LANDSCAPED... 7. EROSION CONTROL STRUCTURES BELOW SLOPED AREAS MAY BE REMOVED ONCE SO2 AND FINAL LANDSCAPING ARE IN PLACE... 8. CONTRACTOR SHALL USE VEGETABLE TRACING CONTROL AT ALL LOCATIONS WHERE VEHICLES WILL ENTER OR EXIT THE SITE... 9. ALL WASH WATER (CONCRETE TRUCKS, VEHICLE CLEANING, ETC.) SHALL BE DISPOSED OF IN A MANNER THAT PREVENTS CONTACT WITH STORM WATER... 10. BLOWING DUST MUST BE CONTROLLED AT ALL TIMES... 11. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ADJUSTING THE EROSION CONTROL MEASURES... 12. ALL OFF-SITE CONSTRUCTION SHALL BE STABILIZED AT THE END OF EACH WORKING DAY... 13. ALL MEASURES CONTAINED IN THIS PLAN SHALL BE MAINTAINED IN FULLY FUNCTIONAL CONDITION... 14. ALL UTILITY LINES SHALL BE CLEARED OF DIRT AND DEBRIS PRIOR TO BEING PUT INTO SERVICE.



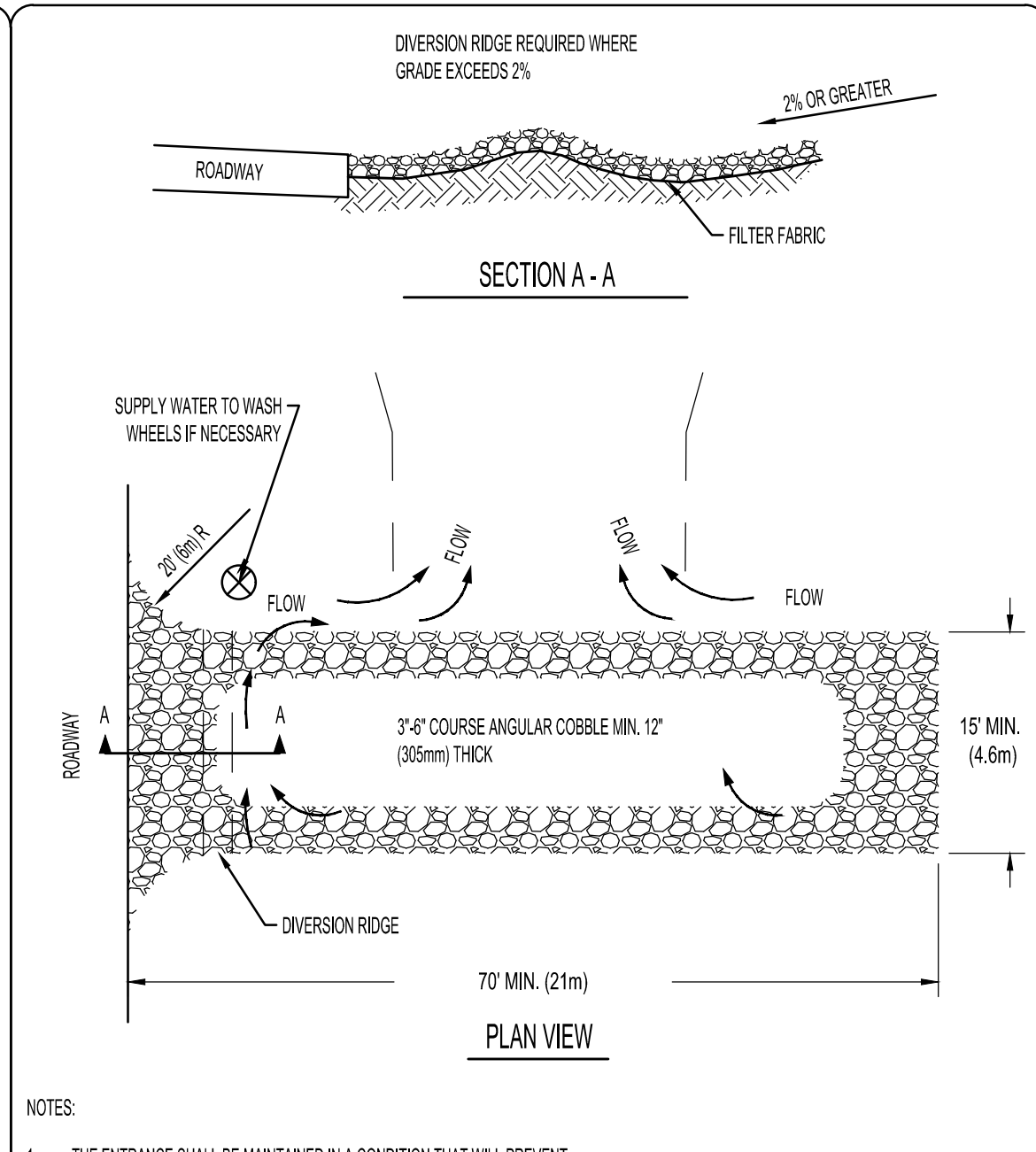
- NOTES: 1. SILT FENCE SHALL BE PLACED ON THE SLOPE CONTOURS TO MAXIMIZE PONDING EFFICIENCY... 2. INSPECT AND REPAIR FENCE AFTER EACH STORM EVENT... 3. REMOVED SEDIMENT SHALL BE DEPOSITED TO AN AREA THAT WILL NOT CONTRIBUTE TO SEDIMENT OFF-SITE AND CAN BE PERMANENTLY STABILIZED.



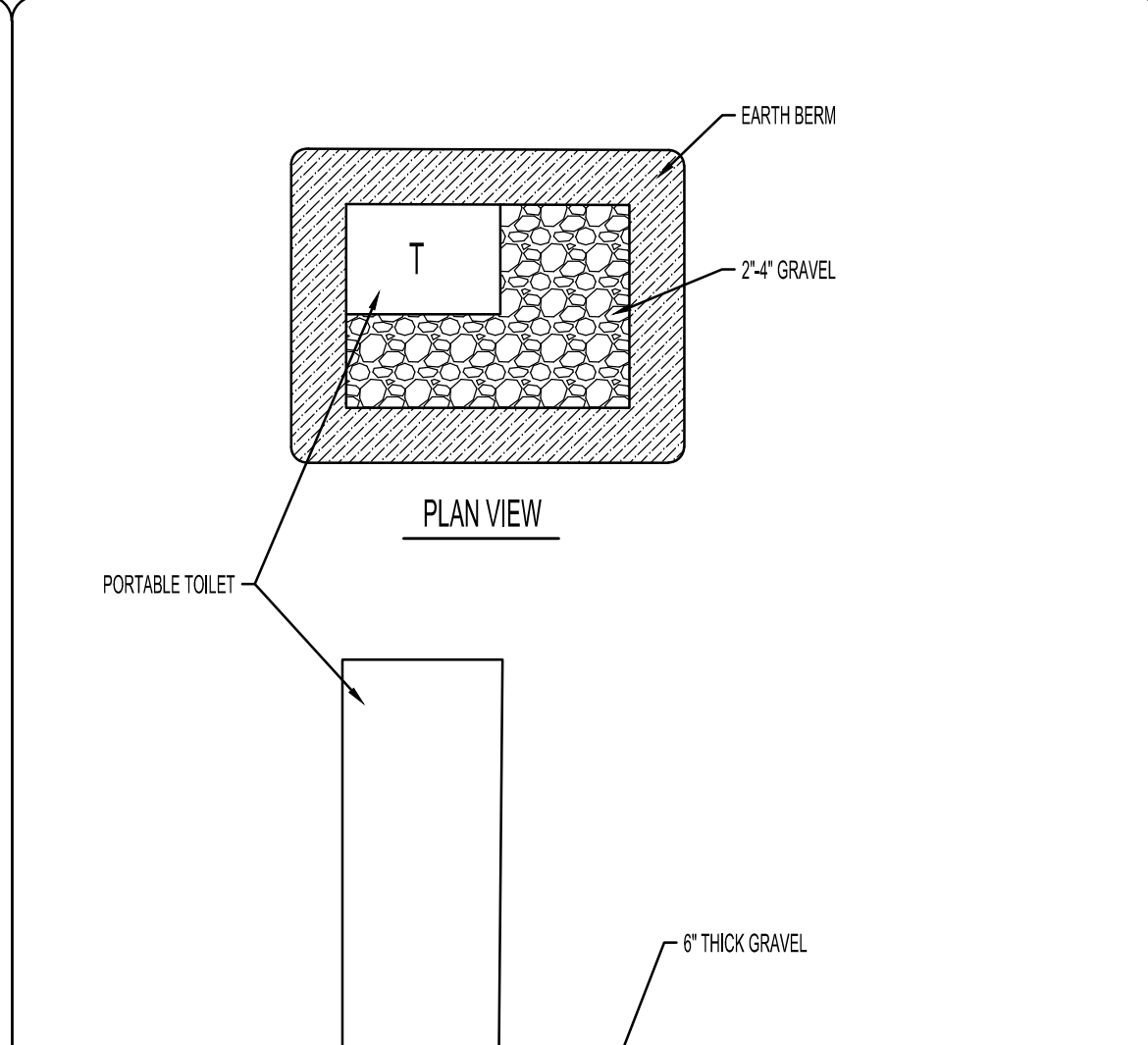
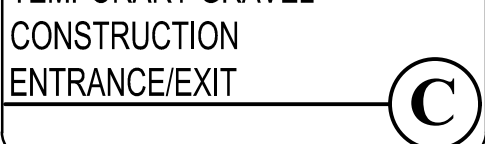
- NOTES: 1. "DANDY CURB BAG" BY DANDY PRODUCTS OR OTHER APPROVED EQUIVALENT.



- NOTES: 1. CONCRETE WASHOUT AREA SHALL BE INSTALLED PRIOR TO ANY CONCRETE PLACEMENT ON SITE... 2. PLASTIC LINING MATERIAL SHALL BE OF 10 MIL POLYETHYLENE SHEETING... 3. A TEMPORARY GRAVEL CONSTRUCTION ENTRANCE/EXIT IS REQUIRED... 4. SIGNS SHALL BE PLACED AT THE CONSTRUCTION ENTRANCE... 5. THE CONCRETE WASHOUT AREA SHALL BE REPAIRED OR ENLARGED OR CLEANED OUT... 6. AT THE END OF CONSTRUCTION, ALL CONCRETE SHALL BE REMOVED... 7. WHEN THE CONCRETE WASHOUT AREA IS REMOVED, THE DISTURBED AREA SHALL BE SEEDED AND MULCHED.



- NOTES: 1. THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION THAT WILL PREVENT TRACKING OR FLOWING OF SEDIMENT... 2. WHEN NECESSARY, WHEELS SHALL BE CLEANED PRIOR TO ENTRANCE... 3. WHEN WASHING IS REQUIRED, IT SHALL BE DONE ON AN AREA STABILIZED WITH CRUSHED STONE.



- NOTES: 1. CONTRACTOR TO LOCATE ON SITE BASED ON TRAILER LOCATION.



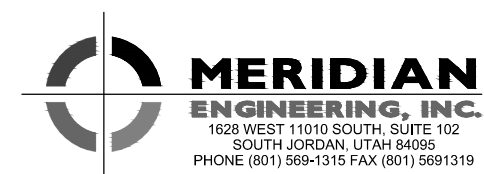
LIMIT OF DISTURBANCE NOTES

- 1. THE LIMITS OF DISTURBANCE (L.O.D.) TO BE FIELD MARKED... 2. FIELD VERIFICATION OF AN L.O.D. BY CITY ENGINEERING... 3. PRECONSTRUCTION EROSION AND SEDIMENT CONTROL MEETING REQUIRED... 4. MODIFICATION OF L.O.D. AS REQUIRED BY RESULTS OF PRECONSTRUCTION MEETING... 5. THE CONTRACTOR TO OBTAIN WRITTEN APPROVAL FROM THE CITY CERTIFYING THE L.O.D., DUST CONTROL, AND TREE PROTECTION HAS BEEN REVIEWED AND APPROVED PRIOR TO WORK BEGINNING.

CONSTRUCTION PERIOD BEST MANAGEMENT PRACTICES NOTES

- 1. CONTRACTOR WILL PERFORM EARTHWORK IN ACCORDANCE WITH THE CITY STANDARD SPECIFICATIONS... 2. THE CONTRACTOR WILL PERFORM EARTHWORK IN ACCORDANCE WITH THE PROJECT EARTHWORK SPECIFICATIONS... 3. L.O.D. BARRIERS WILL BE PROPERLY INSTALLED PRIOR TO ANY DISTURBANCE... 4. INSTALL SILT FENCE ON ALL DOWNHILL SIDE OF L.O.D... 5. ENVIRONMENTAL FENCES ARE TO BE INSTALLED ON ALL UPHILL SIDE OF L.O.D... 6. THE L.O.D. SILT FENCE BARRIERS DO NOT REPLACE OR FUNCTION AS SEDIMENTATION BASINS... 7. WITHIN THE SAME WORKING DAY, SOIL IS DISTURBED ALL SEDIMENT CONTROL BASINS WILL BE INSTALLED... 8. INSTALL ALL SEDIMENTATION BASINS AS SHOWN ON PLANS AND AS DIRECTED BY THE CITY... 9. DUST CONTROL MEASURES WILL BE ON SITE AND IN WORKING ORDER... 10. INSTALL IMPROVEMENTS AS SHOWN ON THE APPROVED CONSTRUCTION PLANS... 11. ALL DISTURBED SOIL WILL BE MADE STABLE AS WITHIN 21 DAYS OF DISTURBANCE... 12. TEMPORARY AND PERMANENT SEDIMENT BEST MANAGEMENT PRACTICES WILL REMAIN FUNCTIONAL... 13. IF THE EXISTING GRADES ARE DIFFERENT THAN WHAT IS SHOWN ON THE GRADING PLAN... 14. IF THE PROJECT REQUIRES EXPORT OR IMPORT MATERIAL TO ACHIEVE A BALANCED SITE... 15. THE PROJECT CONTRACTOR IS RESPONSIBLE FOR KEEPING ALL PAVED STREETS ADJACENT TO OR ABUTTING THE GRADING PROJECT... 16. THE CONTRACTOR WILL PROVIDE ADDITIONAL TEMPORARY EROSION CONTROL PLANS... 17. FAILURE TO FOLLOW THE SEQUENCE OF CONSTRUCTION SHALL RESULT IN THE ISSUANCE OF A WORK STOP ORDER... 18. CONCRETE TRUCKS TO USE PRE-ASSIGNED WASH OUT AREA... 19. PORTABLE TOILETS TO BE LOCATED ADJACENT TO CONTRACTOR TRAILER... 20. CONSTRUCTION WASTE BIN TO BE LOCATED NEAR CONTRACTOR TRAILER... 21. ALL CONSTRUCTION PERIOD BEST MANAGEMENT PRACTICES (BMPs) ARE TO BE INSPECTED AND MAINTAINED... 22. CONTRACTOR SHALL BE REQUIRED TO KEEP A RECORD OF ALL INSPECTIONS AND MAINTENANCE ON SITE.

CONSTRUCTION PERIOD BEST MANAGEMENT PRACTICES



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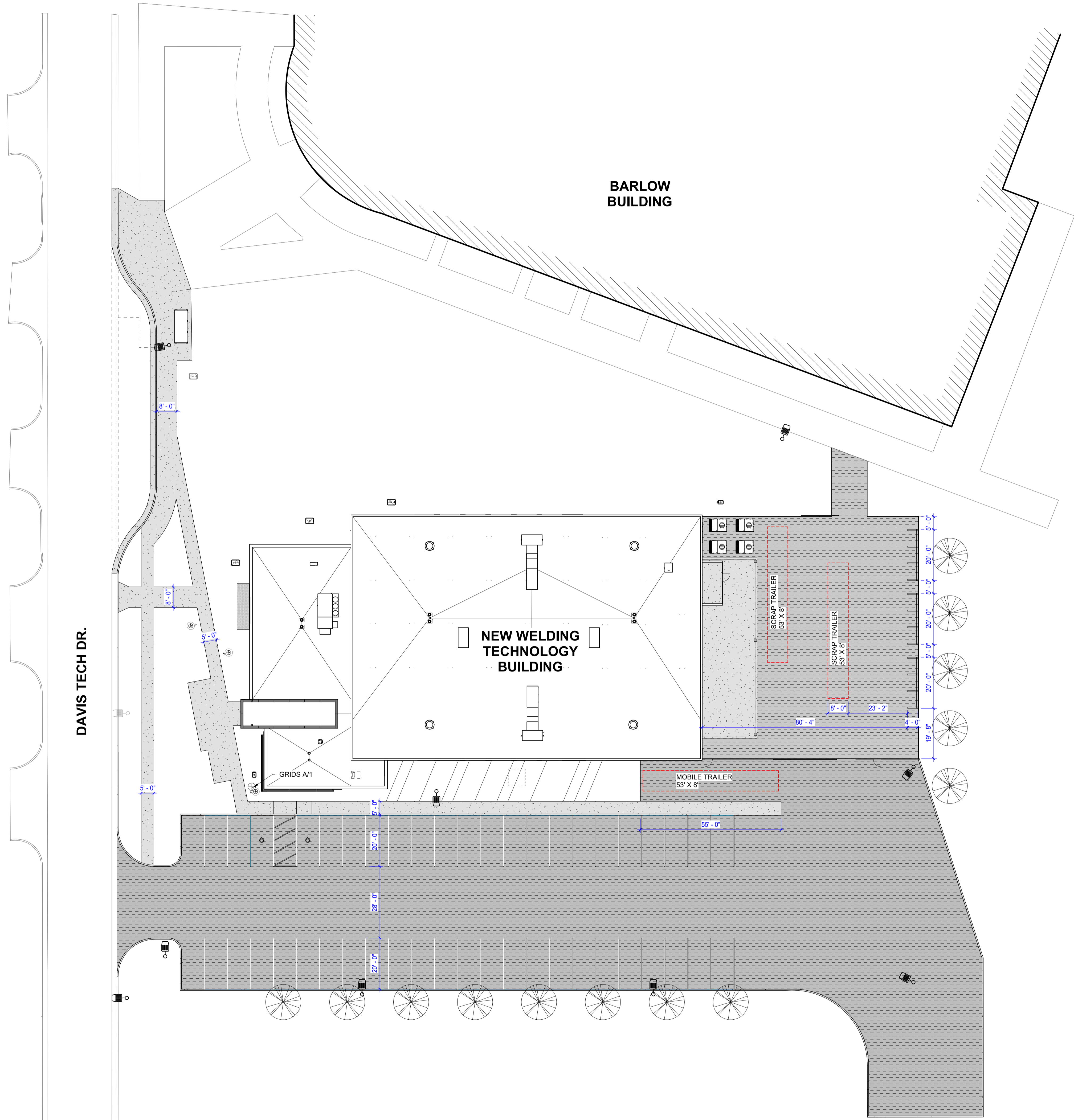
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A2 ARCHITECTURAL SITE PLAN  
AS101.1 1" = 20'-0"

GENERAL NOTES

- GENERAL CONTRACTOR SHALL FIELD VERIFY ALL CONDITIONS AND SHALL REPORT TO THE ARCHITECT ANY UNKNOWN CONDITIONS, ERRORS OR CONFLICT IN THE DRAWINGS BEFORE BEGINNING WORK.
- DO NOT SCALE DRAWINGS
- ITEMS HALF-TONED SHOWN FOR REFERENCE ONLY.



PROJECT **24-038**

BID PACKAGE #1 2024-08-26

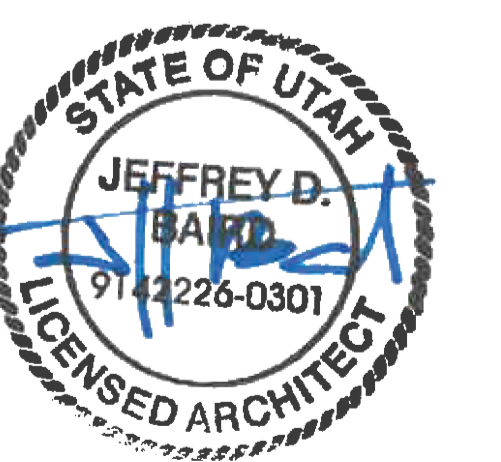
REVISIONS		
NO.	DATE	DESCRIPTION

ARCHITECTURAL SITE PLAN LEGEND

NEW ASPHALT PAVING	
NEW CONCRETE PAVING	
EXTENTS OF SITE DEMOLITION	

KEYNOTES

**DAVIS TECHNICAL COLLEGE  
WELDING TECHNOLOGY BUILDING**  
355 SOUTH 650 EAST  
KAYSVILLE, UT 84037



ARCHITECTURAL  
SITE PLAN  
**AS101.1**

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GENERAL NOTES

- GENERAL CONTRACTOR SHALL FIELD VERIFY ALL CONDITIONS AND SHALL REPORT TO THE ARCHITECT ANY UNKNOWN CONDITIONS, ERRORS OR CONFLICT IN THE DRAWINGS BEFORE BEGINNING WORK.
- DO NOT SCALE DRAWINGS
- SEE ELEVATIONS FOR OPENING HEIGHTS.



PROJECT 24-038

BID PACKAGE #1 2024-08-26

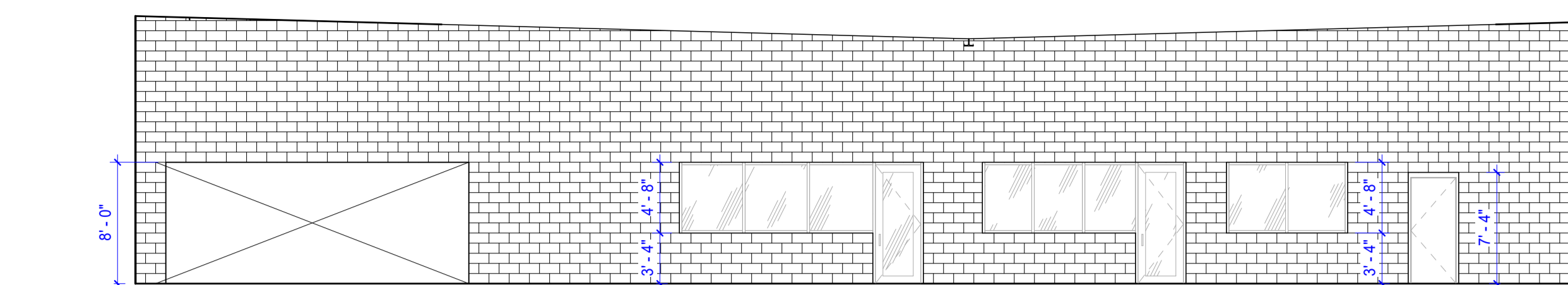
NO.	DATE	DESCRIPTION
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LEGEND

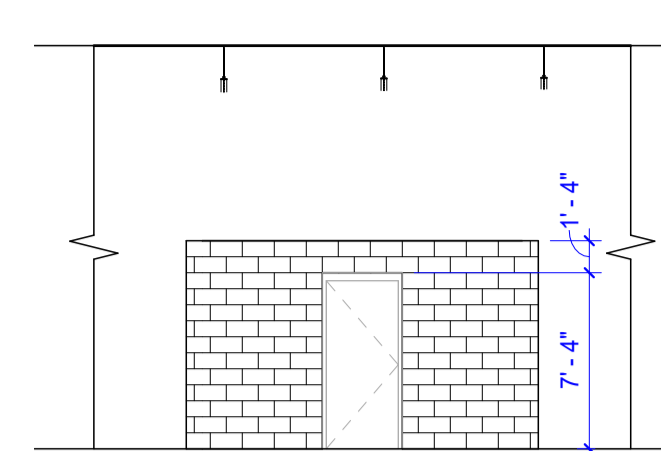
SLAB ON GRADE	
MASONRY WALL	

KEYNOTES

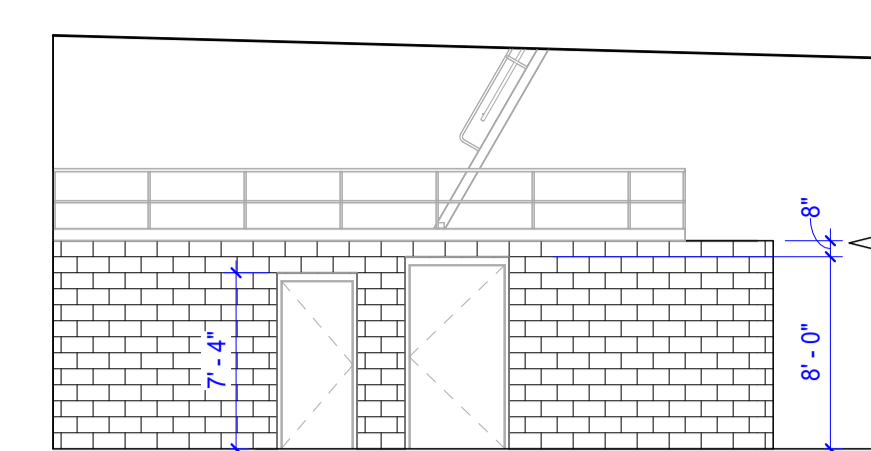
3.01	CONCRETE FOUNDATION WALL
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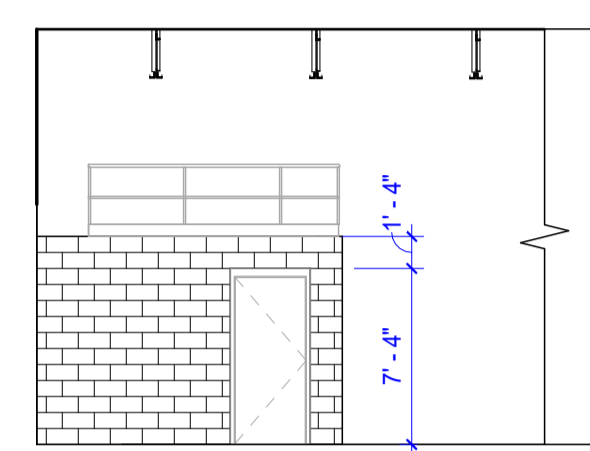
E1 MASONRY ELEVATION - WEST  
1/8" = 1'-0"



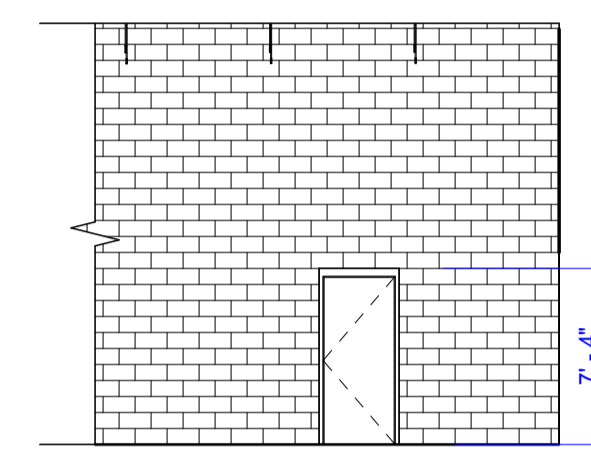
E4 MASONRY ELEVATION SOUTH  
1/8" = 1'-0"



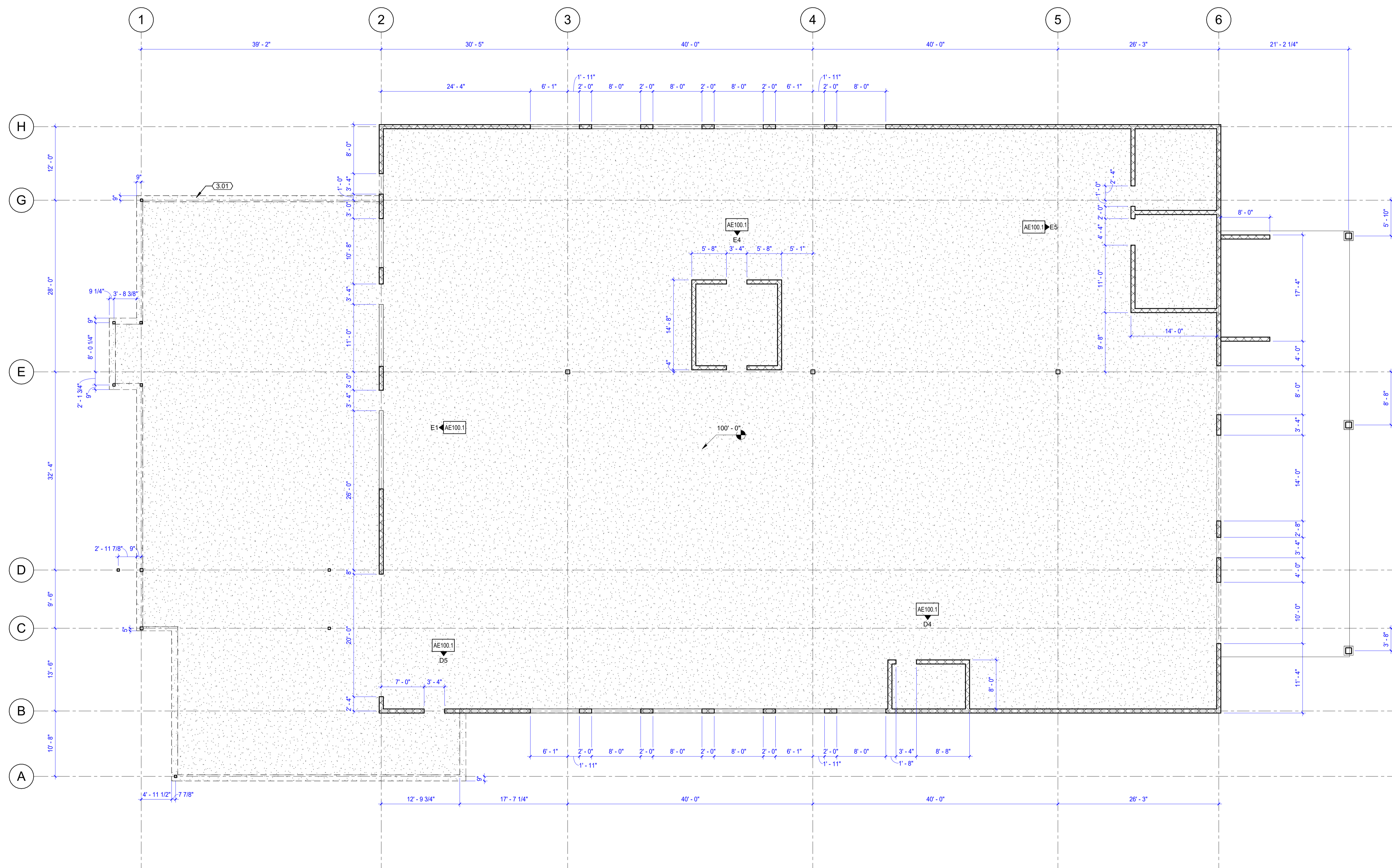
E5 MASONRY ELEVATION EAST  
1/8" = 1'-0"



D4 MASONRY ELEVATION SOUTH 2  
1/8" = 1'-0"

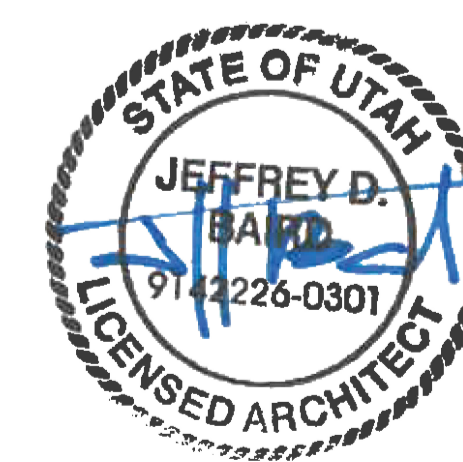


D5 MASONRY ELEVATION 3  
1/8" = 1'-0"



A1 DIMENSION CONTROL PLAN  
1/8" = 1'-0"

**DAVIS TECHNICAL COLLEGE  
WELDING TECHNOLOGY BUILDING**  
355 SOUTH 650 EAST  
KAYSVILLE, UT 84037



DIMENSION  
CONTROL PLAN  
**AE100.1**

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GENERAL NOTES

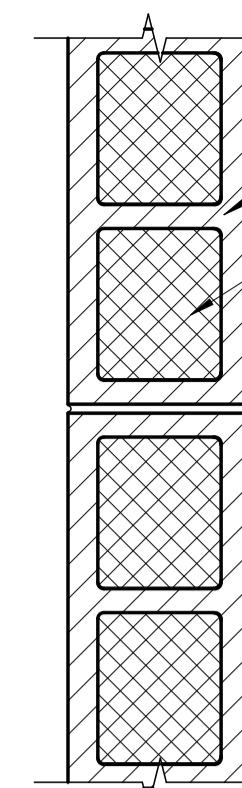
- GENERAL CONTRACTOR SHALL FIELD VERIFY ALL CONDITIONS AND SHALL REPORT TO THE ARCHITECT ANY UNKNOWN CONDITIONS, ERRORS OR CONFLICT IN THE DRAWINGS BEFORE BEGINNING WORK.
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PROJECT 24-038

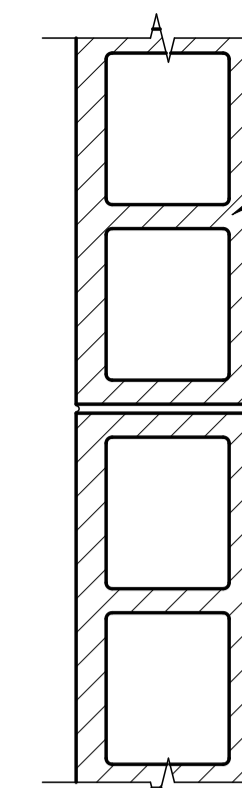
BID PACKAGE #1 2024-08-26

NO.	DATE	DESCRIPTION



8" CMU - CONCRETE MASONRY UNITS

EPS FOAM INSULATION



8" CMU - CONCRETE MASONRY UNITS

M1	M2
FIRE RATING: N/A	FIRE RATING: N/A
FIRE TEST: N/A	FIRE TEST: N/A
STC RATING: N/A	STC RATING: N/A
SOUND TEST: N/A	SOUND TEST: N/A
WALL HEIGHT: SEE ELEVATIONS	WALL HEIGHT: SEE ELEVATIONS

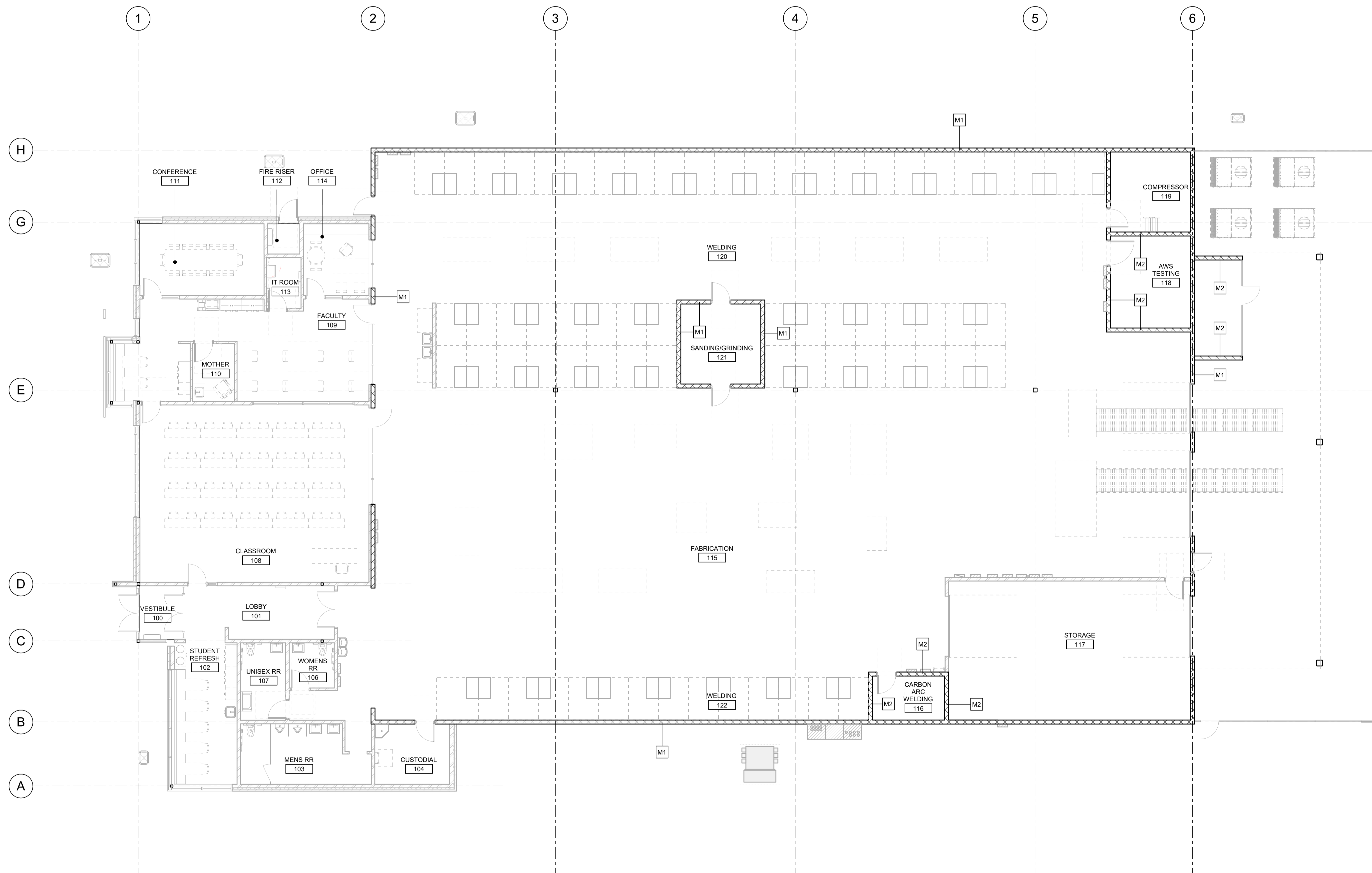
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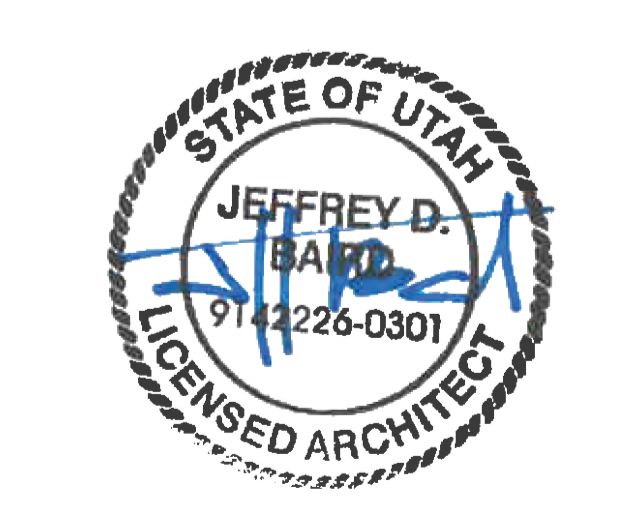
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KEYNOTES

**DAVIS TECHNICAL COLLEGE  
WELDING TECHNOLOGY BUILDING**  
355 SOUTH 650 EAST  
KAYSVILLE, UT 84037



LEVEL 1 FLOOR PLAN  
**AE101.1**

A1 LEVEL 1 FLOOR PLAN  
1/8" = 1'-0"

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GENERAL NOTES

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PROJECT 24-038

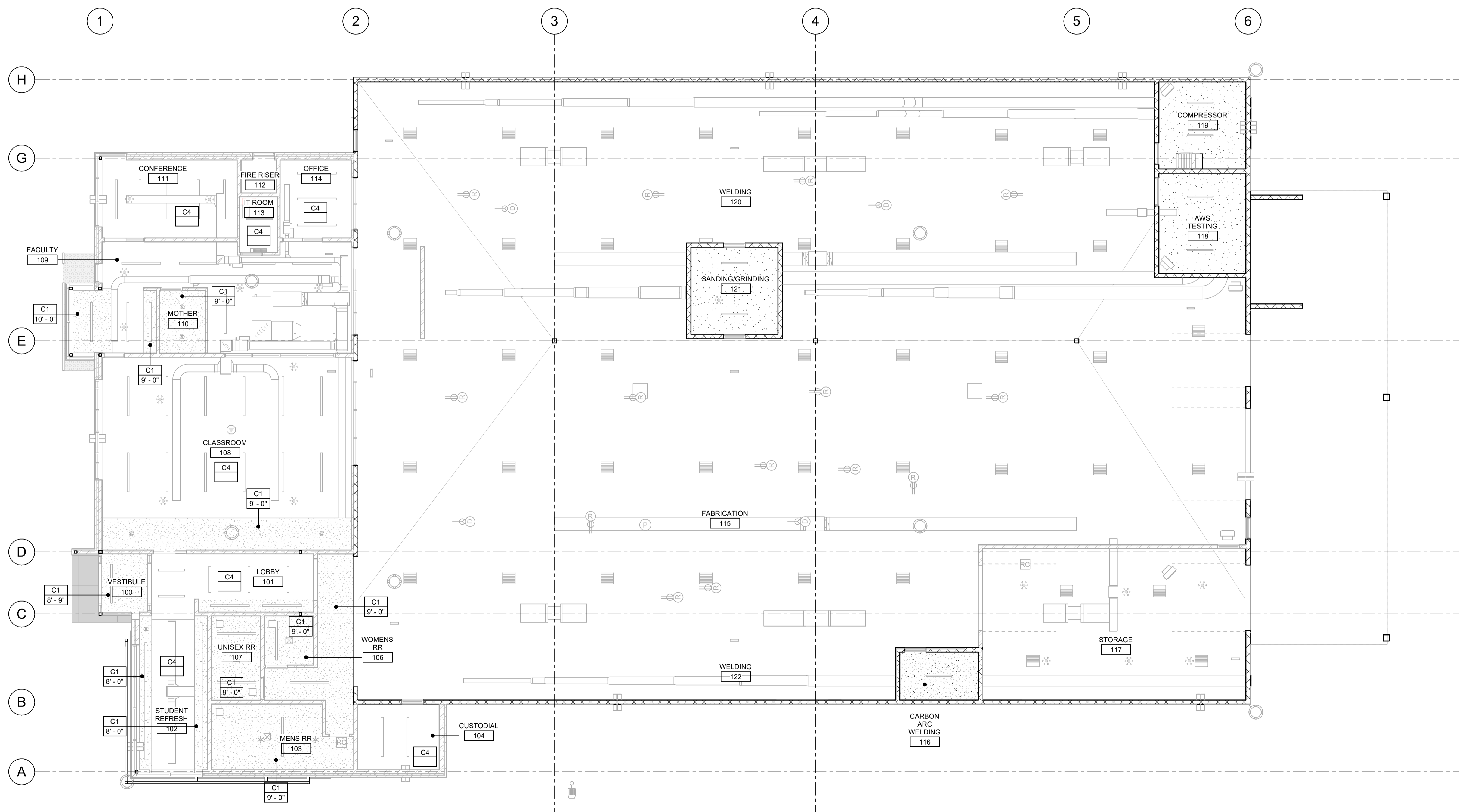
BID PACKAGE #1 2024-08-26

REVISIONS		
NO.	DATE	DESCRIPTION

CEILING LEGEND

GYPSUM BOARD CEILING PAINT.	C1 X-X'	
OPEN TO STRUCTURE ABOVE	C4 X-X'	
WINDOW SHADES		

KEYNOTES



**DAVIS TECHNICAL COLLEGE  
WELDING TECHNOLOGY BUILDING**

355 SOUTH 650 EAST  
KAYSVILLE, UT 84037



\*\*\*FOR REFERENCE ONLY\*\*\*

LEVEL 1  
REFLECTED  
CEILING PLAN  
**AE171.1**

A1 LEVEL 1 CEILING PLAN  
1/8" = 1'-0"

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GENERAL NOTES

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- DO NOT SCALE DRAWINGS
- ITEMS HALF-TONED SHOWN FOR REFERENCE ONLY.



PROJECT **24-038**

BID PACKAGE #1 2024-08-26

NO.	DATE	DESCRIPTION
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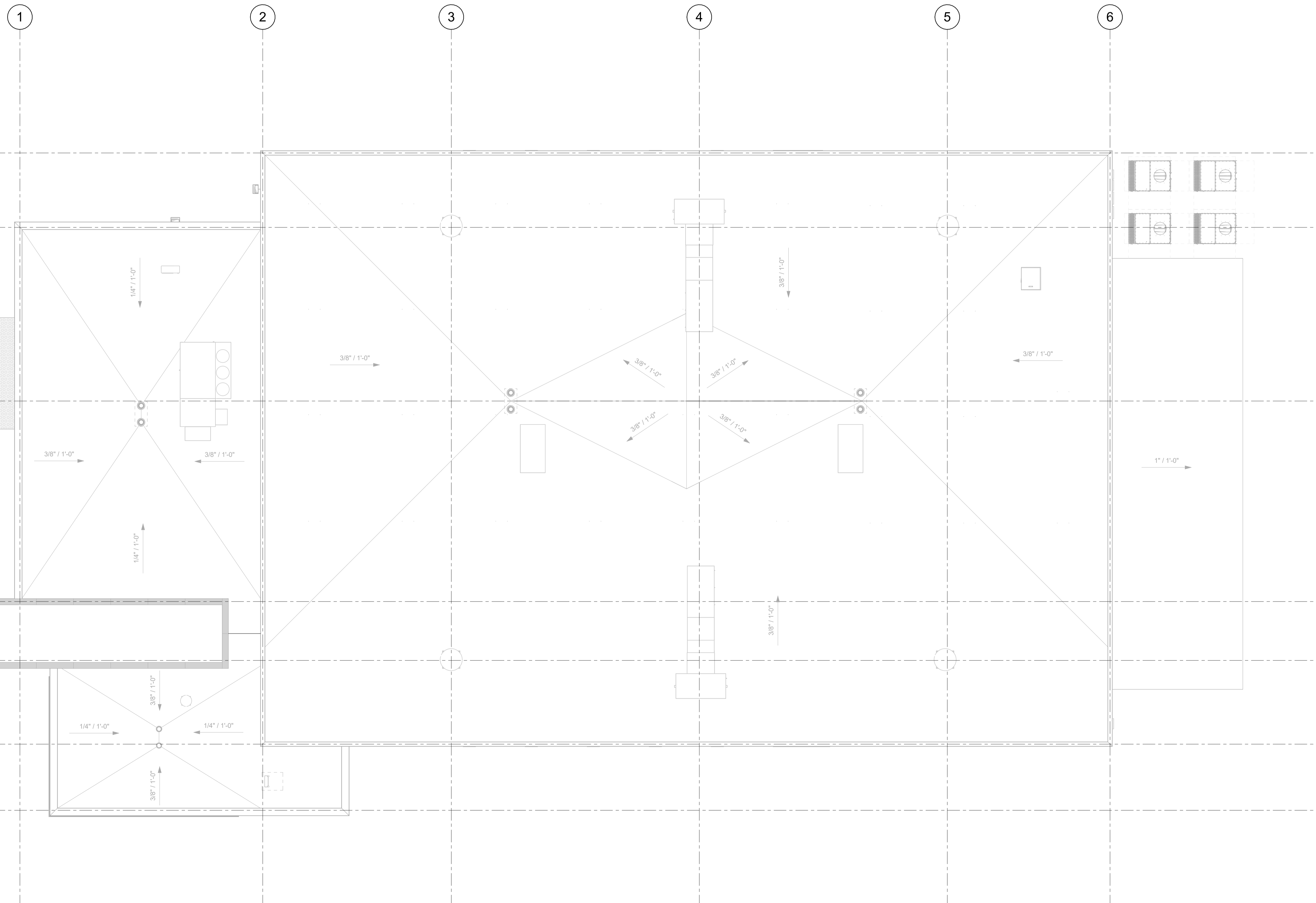
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KEYNOTES

**DAVIS TECHNICAL COLLEGE  
WELDING TECHNOLOGY BUILDING**  
355 SOUTH 650 EAST  
KAYSVILLE, UT 84037



\*\*\*FOR REFERENCE ONLY\*\*\*

A1 ROOF PLAN  
1/8" = 1'-0"

ROOF PLAN  
**AE191.1**

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GENERAL NOTES

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- DO NOT SCALE DRAWINGS
- ITEMS HALF-TONED SHOWN FOR REFERENCE ONLY.

CRSA

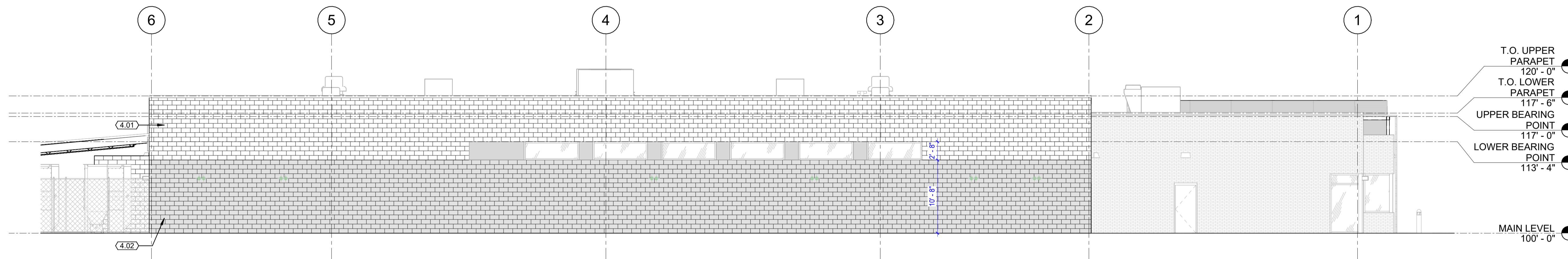
PROJECT 24-038

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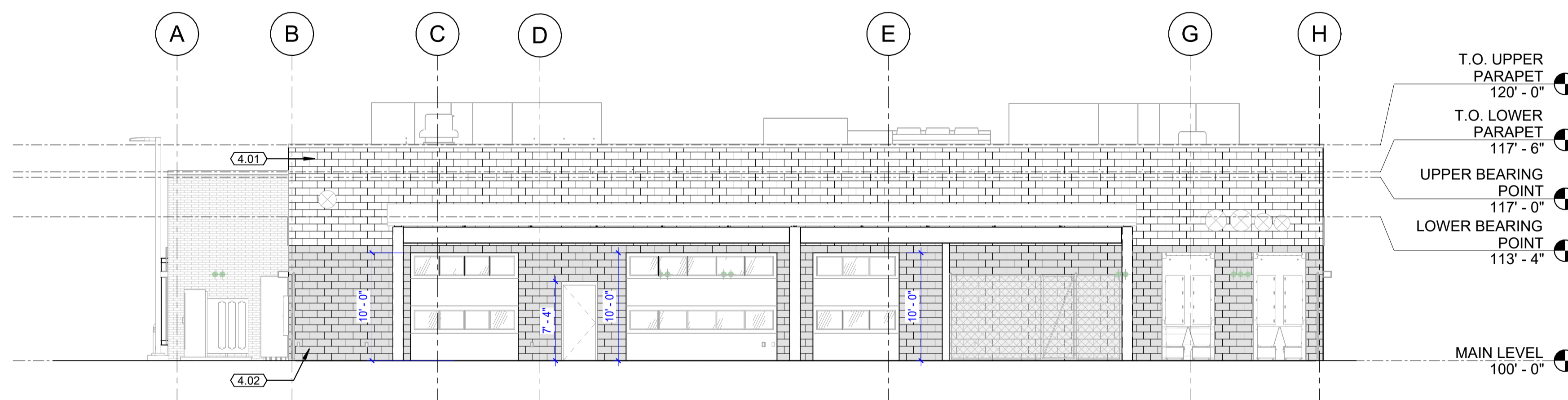
D1 BUILDING ELEVATION - NORTH  
1/8" = 1'-0"

LEGEND

CMU COLOR SUNROC 'CREAM'	
CMU COLOR SUNROC 'TUMBLEWEED'	

- T.O. UPPER PARAPET 120' - 0"
- T.O. LOWER PARAPET 117' - 6"
- UPPER BEARING POINT 117' - 0"
- LOWER BEARING POINT 113' - 4"
- MAIN LEVEL 100' - 0"

C



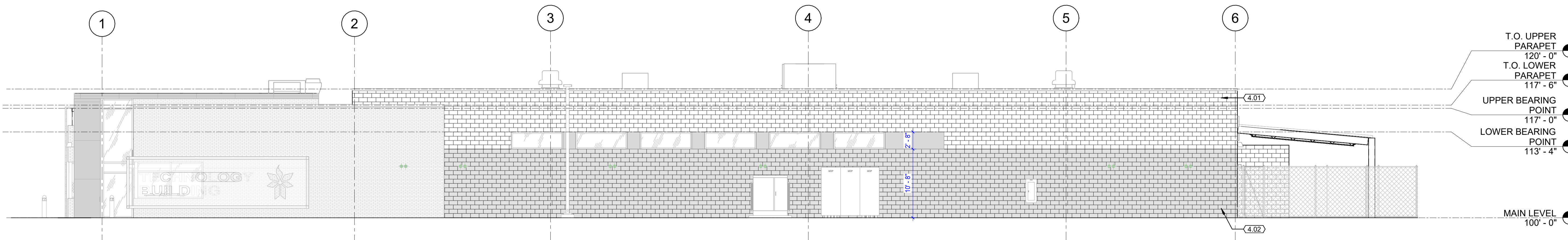
C2 BUILDING ELEVATION - EAST  
1/8" = 1'-0"

KEYNOTES

4.01	SMOOTH FACE CONCRETE MASONRY UNIT
4.02	SPLIT FACE CONCRETE MASONRY UNIT

- T.O. UPPER PARAPET 120' - 0"
- T.O. LOWER PARAPET 117' - 6"
- UPPER BEARING POINT 117' - 0"
- LOWER BEARING POINT 113' - 4"
- MAIN LEVEL 100' - 0"

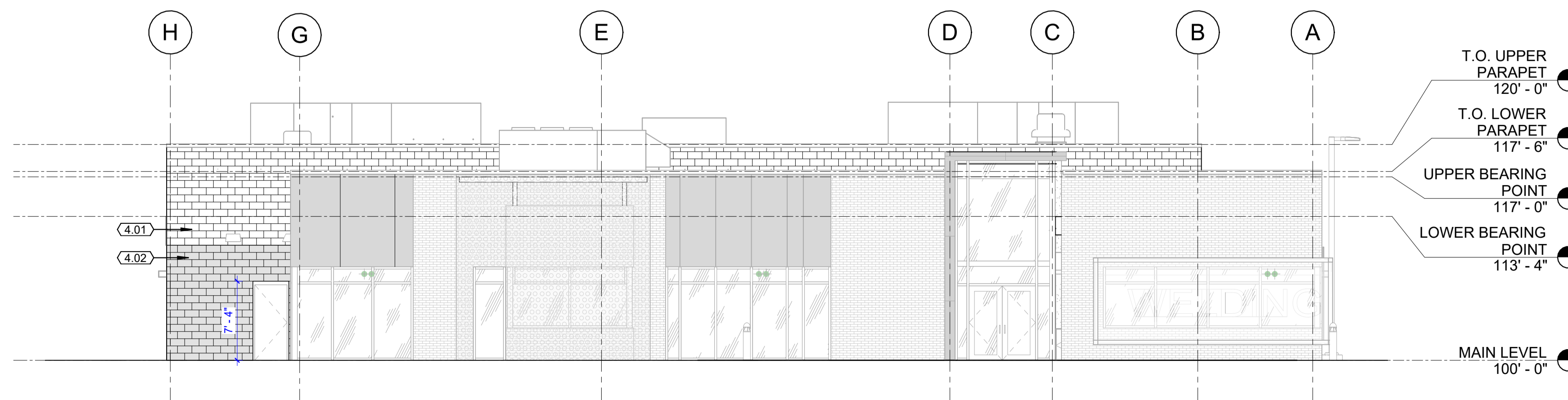
B



B1 BUILDING ELEVATION - SOUTH  
1/8" = 1'-0"

- T.O. UPPER PARAPET 120' - 0"
- T.O. LOWER PARAPET 117' - 6"
- UPPER BEARING POINT 117' - 0"
- LOWER BEARING POINT 113' - 4"
- MAIN LEVEL 100' - 0"

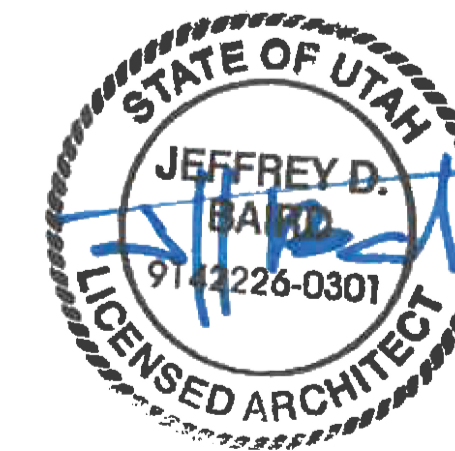
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A2 BUILDING ELEVATION - WEST  
1/8" = 1'-0"

- T.O. UPPER PARAPET 120' - 0"
- T.O. LOWER PARAPET 117' - 6"
- UPPER BEARING POINT 117' - 0"
- LOWER BEARING POINT 113' - 4"
- MAIN LEVEL 100' - 0"

**DAVIS TECHNICAL COLLEGE  
WELDING TECHNOLOGY BUILDING**  
355 SOUTH 650 EAST  
KAYSVILLE, UT 84037



BUILDING  
ELEVATIONS  
**AE201.1**

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GENERAL STRUCTURAL NOTES

ABBREVIATIONS

Table with 3 columns: Abbreviation, Full Name, and Symbol. Includes items like AB (Anchor Bolt), ALT (Alternate), ARCH (Architect), ADDL (Additional), etc.

SPECIAL INSPECTION, TESTING AND STRUCTURAL OBSERVATION REQUIREMENTS

- 1. Special Inspections and Testing
A. Special inspections and testing as required per the approved construction documents and per IBC Chapter 17 shall be provided for this project unless waived by the Building Official.
B. An independent agency, or agencies, employed by the Owner, shall perform the special inspection and testing services required.
C. The special inspection and testing requirements of this section of the General Structural Notes and the special inspection tables serve as the Engineer of Record's statement of special inspections and structural observations required by IBC Chapter 17.

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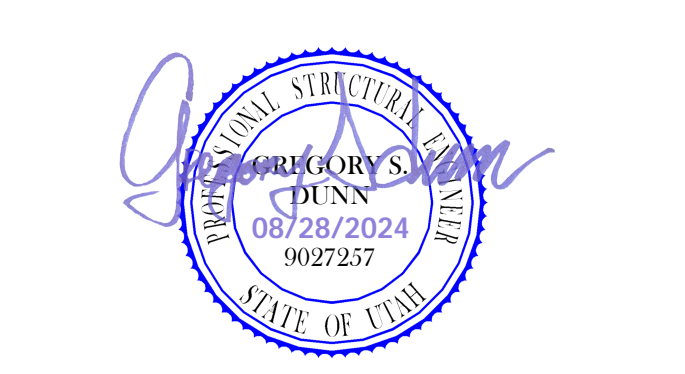
PROJECT 240104

BID PACKAGE #1 2024-08-26

REVISIONS

Table with 3 columns: NO., DATE, DESCRIPTION

DTC WELDING TECH & FABRICATION BUILDING 355 SOUTH 650 EAST KAYSVILLE, UT 84037



2024-08-26 BID PACKAGE #1

NOTE: THESE STRUCTURAL DRAWINGS ARE BASED ON ARCHITECTURAL DRAWINGS DATED July 23, 2024. DIMENSIONS AND ELEVATIONS AS THEY RELATE TO THE BUILDING IN GENERAL, IN GRID TO GRID DIMENSIONS OR DECK BEARING ELEVATIONS, ARE SUPPLIED BY THE ARCHITECT. THEY ARE PROVIDED ON THE STRUCTURAL PLANS AND DETAILS FOR THE CONVENIENCE OF THE CONTRACTOR. VERIFY DIMENSIONS AND ELEVATIONS WITH ARCHITECTURAL DRAWINGS.

GENERAL STRUCTURAL NOTES SE002.1

(801) 355-5915



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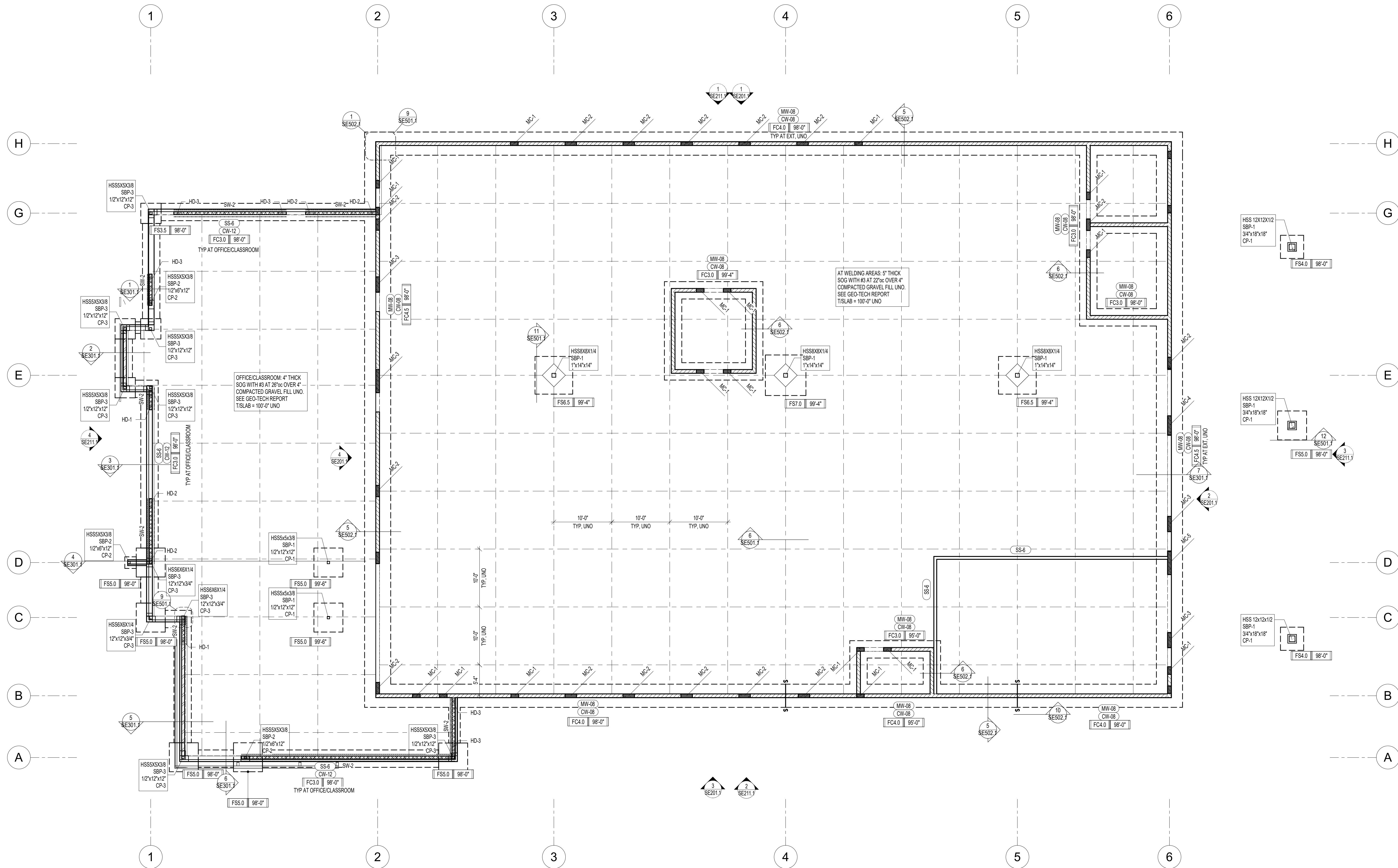
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**FOOTING AND FOUNDATION PLAN NOTES:**

- COORDINATE LOCATION OF DEPRESSED SLABS, SLOPED SLABS AND FLOOR DRAINS WITH ARCHITECTURAL AND MECHANICAL DRAWINGS.
- SEE ARCHITECTURAL DRAWINGS AND CIVIL DRAWINGS FOR EXTERIOR CONCRETE WORK AT DOORS, SIDEWALKS, ETC. PER BC 1806.5.1. PROVIDE CLEAN GRAVEL (NO FINES) DOWN TO FROST DEPTH UNDER EXTERIOR LANDINGS OF ALL REQUIRED EXITS WITH OUTWARD-SWINGING DOORS UNDER THE FOOTPRINT OF THE DOOR SWING.
- SEE ARCHITECTURAL DRAWINGS FOR DIMENSIONS TO COLUMNS, WALLS, SLAB EDGES, SLOPES, ELEVATIONS, CURBS, DEPRESSIONS AND DRAINS.
- SEE ELEVATIONS FOR MASONRY LINTELS, PLASTERS, AND WALL REINFORCEMENT.
- CENTER ALL SPOT FOOTINGS UNDER COLUMNS AS SHOWN ON PLAN, TYPICAL UNLESS NOTED OTHERWISE.
- SEE SCHEDULES ON (SE500) SHEETS FOR:
  - FOOTINGS
  - CONCRETE WALLS
  - CONCRETE PIERS
  - REINFORCING SPLICE LENGTHS
  - STEEL COLUMNS
- SEE TYPICAL FOOTING AND FOUNDATION DETAILS ON (SE500) SHEETS FOR:
  - SLAB CONSTRUCTION AND CONTROL JOINTS
  - FOOTING STEPS
  - CORNER BARS
  - PIPES PERPENDICULAR AND PARALLEL TO FOOTINGS
  - REINFORCING AT MISCELLANEOUS OPENINGS
  - REINFORCING AT SLAB DISCONTINUITIES
  - FROST COVER AND STRUCTURAL FILL
- SEE TYPICAL FOOTING AND FOUNDATION DETAILS ON (SE500) SHEETS FOR:
  - REINFORCING AT MISCELLANEOUS MASONRY OPENINGS AND RECESSES
  - MASONRY CONTROL JOINTS
  - TERMINATION OF HORIZONTAL WALL REINFORCING AT ENDS OF MASONRY WALLS
  - CORNER WALL REINFORCING FOR SINGLE REINFORCED MASONRY WALLS
- SEE TYPICAL STEEL STUD DETAILS ON SE704.1 INCLUDING:
  - TYPICAL BOTTOM TRACK ANCHORAGE FOR NON-SHEAR WALLS
  - STEEL STUD BRIDGING
  - DEFLECTION TRACK ASSEMBLY
  - FRAMING AT CORNERS
  - JAMBS AND HEADERS
  - NOMENCLATURE
  - PIPE HANGERS
  - NON-BEARING WALL TO METAL DECK CONNECTIONS

**MARKS AND SYMBOLS LEGEND**

- SECTION MARK SHEET NUMBER
- FRAME ELEVATION SHEET NUMBER SEE DETAIL (13/ SE501.1)
- FOOTING DESIGNATION TOP ELEVATION
- DEPRESSED AND WALL POUR SLAB OVER
- FLOOR OFFSET. SEE DETAILS
- CONCRETE WALL (SLP)
- MASONRY WALL
- STEEL COLUMN
- MASONRY COLUMN
- CONTROL JOINT
- CONCRETE PIER. SEE SCHEDULE
- CONTINUOUS FOOTING. SEE SCHEDULE
- SPOT FOOTING. SEE SCHEDULE
- THICKENED SLAB FOOTING. SEE SCHEDULE
- STEEL BASE PLATE. SEE SCHEDULE
- CONCRETE WALL. SEE SCHEDULE
- CONC WALL BLW AND MAS WALL ABV. SEE SCHED AND ELEVATIONS
- STEEL STUD WALL. SEE SCHEDULE
- STL STUD SHEAR WALL AND TYPE ABOVE. LINE INDICATES SIZE OF SHEATHING. TWO LINES INDICATES DOUBLE SHEATHING. SEE SCHEDULE.
- CONTINUOUS ROD HOLD-DOWN LOCATION. SEE SCHEDULE
- MASONRY COLUMN. SEE SCHEDULE



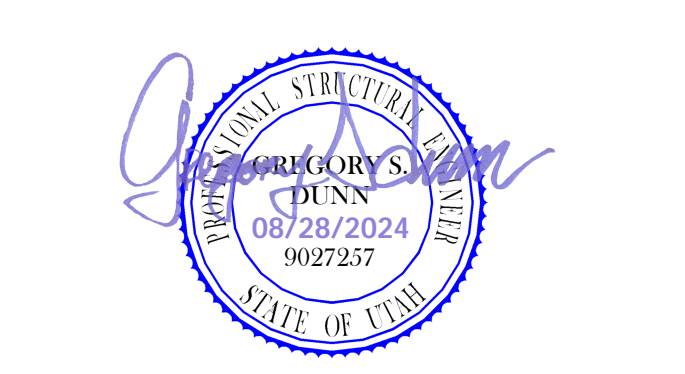
PROJECT **240104**

BID PACKAGE #1 2024-08-26

REVISIONS

NO.	DATE	DESCRIPTION
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**DTC WELDING TECH & FABRICATION**  
**BUILDING**  
 355 SOUTH 650 EAST  
 KAYSVILLE, UT 84037



2024-08-26  
BID PACKAGE #1

NOTE: THESE STRUCTURAL DRAWINGS ARE BASED ON ARCHITECTURAL DRAWINGS DATED July 23, 2024. DIMENSIONS AND ELEVATIONS AS THEY RELATE TO THE BUILDING IN GENERAL, IN GRID TO GRID DIMENSIONS OR DECK BEARING ELEVATIONS, ARE SUPPLIED BY THE ARCHITECT. THEY ARE PROVIDED ON THE STRUCTURAL PLANS AND DETAILS FOR THE CONVENIENCE OF THE CONTRACTOR. VERIFY DIMENSIONS AND ELEVATIONS WITH ARCHITECTURAL DRAWINGS.

FOOTING AND FOUNDATION PLAN  
**SE101.1**

(801) 355-5915

**1 FOOTING AND FOUNDATION PLAN**  
SE101.1 SCALE: 1/8" = 1'-0"

1

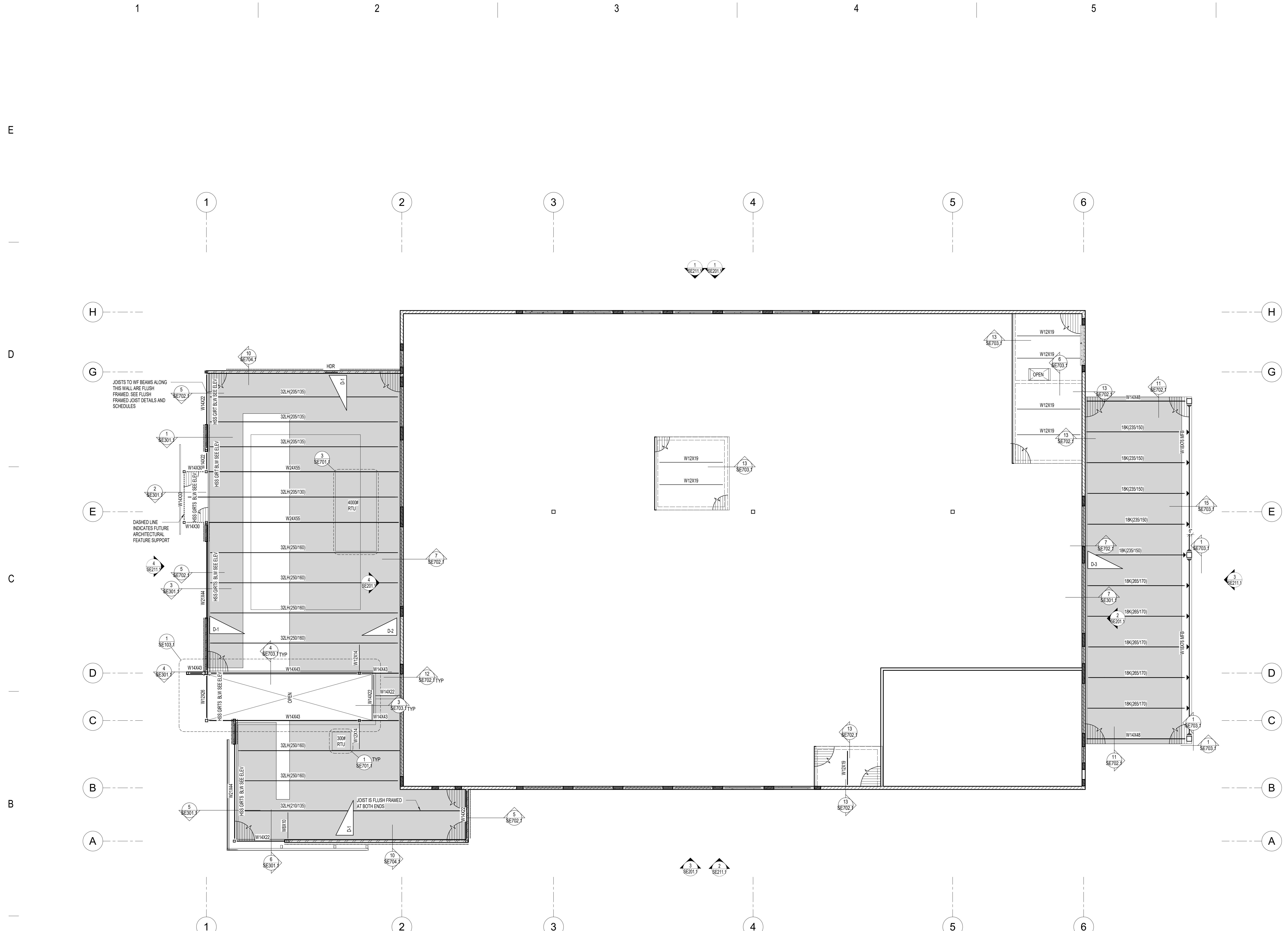
2

3

4

5

6



- ### ROOF FRAMING PLAN NOTES:
- VERIFY ROOF SLOPES, DRAINS, AND DECK BEARING ELEVATIONS WITH ARCHITECTURAL DRAWINGS.
  - SEE ARCHITECTURAL DRAWINGS FOR DIMENSIONS TO COLUMNS, WALLS, SLAB EDGES, SLOPES, ELEVATIONS, CURBS, DEPRESSIONS AND DRAINS.
  - ALL JOISTS SHALL HAVE 1/2" DEEP BEARING ENDS UNLESS NOTED OTHERWISE.
  - ALL GIRDERS SHALL HAVE 1/2" DEEP BEARING ENDS UNLESS NOTED OTHERWISE.
  - OPEN WEB STEEL JOISTS AND JOIST GIRDERS SHALL BE DESIGNATED BY THE MANUFACTURER TO SUPPORT THE MECHANICAL AND LATERAL LOADS SHOWN ON THE ROOF FRAMING PLANS IN ADDITION TO THE UNIFORM AND POINT LOADS SHOWN.
  - CONTRACTOR SHALL NOT SUPPORT ANY LOADS FROM JOIST BRIDGING.
  - CONTRACTOR SHALL NOT ATTACH BRACING OR MEP OR FIRE PROTECTION TO BOTTOM CHORDS OF JOISTS OR BRIDGINS.
  - WHERE SKYLIGHTS OR MECHANICAL UNITS INTERRUPT HORIZONTAL BRIDGINS, PROVIDE CROSS BRIDGINS AT JOIST SPACES ON A SIDE, TYPICAL.
  - WHERE DIAGONAL BRIDGING CONFLICTS WITH MECHANICAL UNITS, REMOVE DIAGONAL BRIDGING AND REPLACE WITH HORIZONTAL BRIDGING (AFTER ROOF DECK IS IN PLACE).
  - \* INDICATES THAT THESE JOISTS SHALL BE DESIGNED FOR AN ADDITIONAL LOAD OF 100LB/FT AT ANY TOP CHORD PANEL POINT. THIS LOAD IS TO BE ADDED TO THE GIRDERS TOP CHORD LOAD. MULTIPLE "\*" ARE ADDITIVE.
  - JOIST DESIGNER SHALL DESIGN JOISTS AND SUPPLY ADDITIONAL BRIDGING AS REQUIRED FOR NET UPLIFT DUE TO WIND (ALLOWABLE), SEE (SE804).
  - VERIFY SIZE, WEIGHT, AND LOCATION OF ALL ROOF TOP MECHANICAL UNITS WITH ARCHITECTURAL AND MECHANICAL DRAWINGS. COORDINATE OPENINGS WITH MECHANICAL, ELECTRICAL, AND GENERAL CONTRACTORS.
  - SPRINKLER DESIGNER SHALL COORDINATE THE SPRINKLER DESIGN WITH THE JOIST GIRDER SHOP DRAWINGS.
  - ALL JOIST TOP CHORDS BEARING AT THE MASONRY WALLS SHALL BE DESIGNED FOR A MINIMUM AXIAL LOAD OF 10 KIPS IN TENSION AND COMPRESSION THAT REDUCES TO 0.0 KIPS AT THE OPPOSITE END OF THE JOIST. LOADS ARE DUE TO SEISMIC AND ARE PROVIDED AT ULTIMATE STRENGTH LEVEL INCLUDING OVERSTRENGTH FACTOR OF 1.4. JOIST SUPPLIER TO DESIGN JOISTS TO TRANSFER THIS ANCHORAGE LOAD THROUGH THE JOIST BEARING SEAT.
  - SPRINKLER DESIGNER SHALL COORDINATE:
    - STEEL COLUMN
    - CONCRETE AND MASONRY LINTELS
  - SEE TYPICAL FRAMING DETAILS ON (SE701) SHEETS FOR:
    - FRAMING AT ROOF OPENINGS, MECHANICAL UNITS, SKYLIGHTS AND ROOF DRAINS
    - PIPE SLEEVES THROUGH ROOF DECK
    - SUSPENDED LOADS ON ROOF DECK
    - JOIST REINFORCING AT POINT LOADS
    - JOIST TOP CHORD TIE

### MARKS AND SYMBOLS LEGEND

	SECTION MARK SHEET NUMBER
	FRAME ELEVATION SHEET NUMBER
	MTL ROOF DECK, SEE GSN
	CONCRETE OVER METAL DECK, SEE GENERAL STRUCTURAL NOTES
	MASONRY WALL
	BRQ WALL BLW
	STEEL COLUMN
	JST TOP CHORD TIE
	STEEL STUD HEADER, SEE SCHEDULE
	MASONRY LINTEL, SEE SCHEDULE
	ROOF JOIST TOP CHORD SHALL BE DESIGNED FOR AN ADDITIONAL LOAD OF X KIPS IN TENSION AND COMPRESSION. LOADS ARE PROVIDED AT ULTIMATE STRENGTH LEVEL.
	ROOF DRAIN SEE (S/ SE701.1) AND SEE ARCHITECTURAL AND MECHANICAL FOR EXACT LOCATION
	LATERAL FRAME MOMENT CONNECTIONS SEE DET (1/ SE701.1)
	FRAME OR COLLECTOR BRACE, SEE DET (15/ SE703.1)

D-1	MAX = 33 PSF L = 7'-0"	D-2	MAX = 63 PSF L = 22'-2"
D-3	MAX = 57 PSF L = 24'-2"		

MAX PSF  
D-x  
0 PSF  
UNIFORM ROOF SNOW LOAD, SEE GSN

WHERE 'L' EXCEEDS LENGTH OF LOWER ROOF, DRIFT TAPERS TO 0 PSF AT THE FAR END OF LOWER ROOF. SHADED AREA ON PLAN DENOTES EXTENT OF SNOW DRIFT.



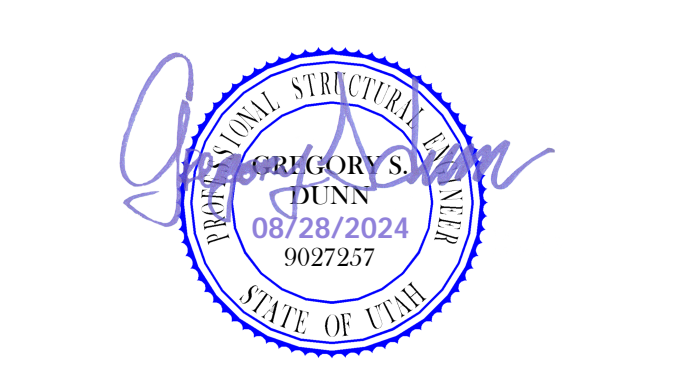
PROJECT **240104**

BID PACKAGE #1 2024-08-26

REVISIONS

NO.	DATE	DESCRIPTION
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**DTC WELDING TECH & FABRICATION**  
**BUILDING**  
 355 SOUTH 650 EAST  
 KAYSVILLE, UT 84037



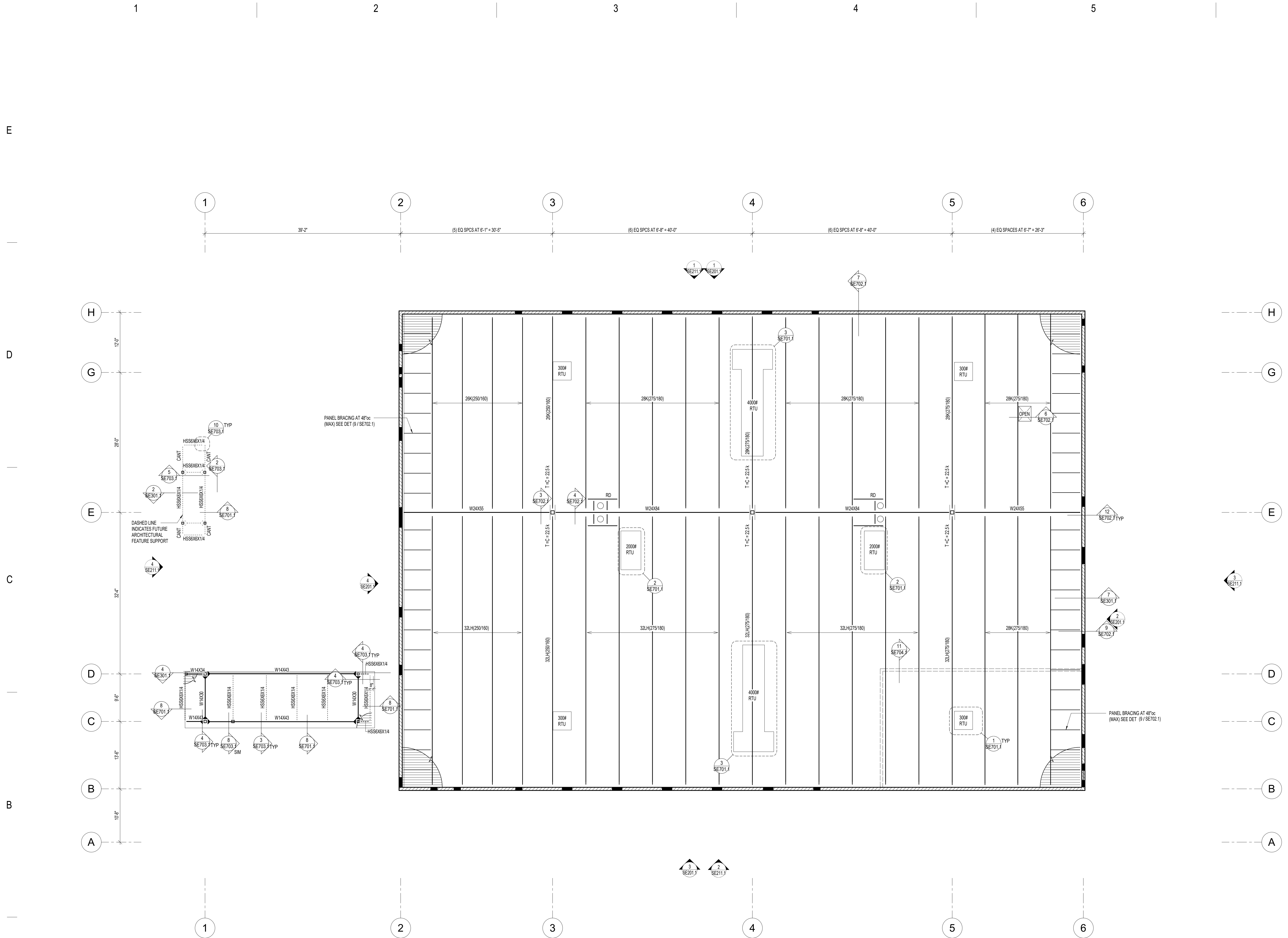
2024-08-26  
 BID PACKAGE #1

NOTE:  
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 DIMENSIONS AND ELEVATIONS AS THEY RELATE TO THE BUILDING IN GENERAL, IN GRID TO GRID DIMENSIONS OR DECK BEARING ELEVATIONS, ARE SUPPLIED BY THE ARCHITECT. THEY ARE PROVIDED ON THE STRUCTURAL PLANS AND DETAILS FOR THE CONVENIENCE OF THE CONTRACTOR. VERIFY DIMENSIONS AND ELEVATIONS WITH ARCHITECTURAL DRAWINGS.

LOW ROOF FRAMING PLAN  
**SE102.1**

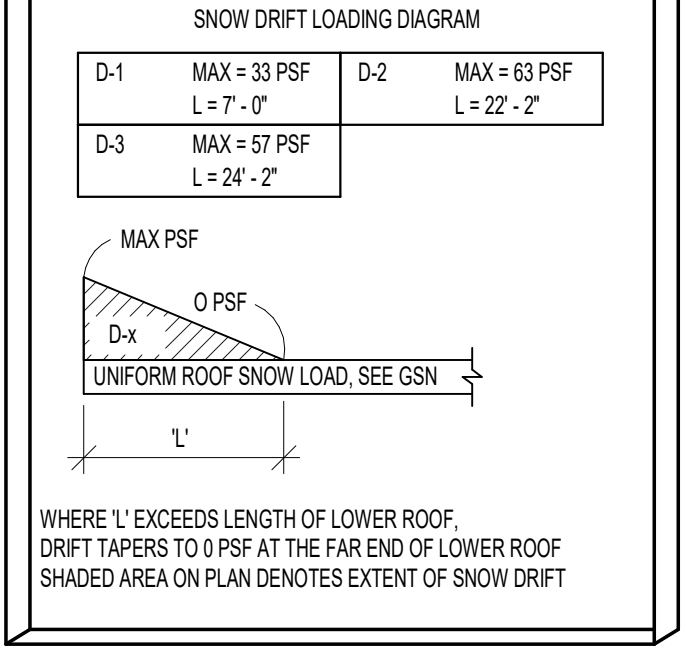
(801) 355-5915

NORTH  
**1 LOW ROOF FRAMING PLAN**  
 SE102.1 SCALE: 1/8" = 1'-0"



- ROOF FRAMING PLAN NOTES:**
- VERIFY ROOF SLOPES, DRAINS, AND DECK BEARING ELEVATIONS WITH ARCHITECTURAL DRAWINGS.
  - SEE ARCHITECTURAL DRAWINGS FOR DIMENSIONS TO COLUMNS, WALLS, SLAB EDGES, SLOPES, ELEVATIONS, CURBS, DEPRESSIONS AND DRAINS.
  - ALL JOISTS SHALL HAVE 1" DEEP BEARING ENDS UNLESS NOTED OTHERWISE.
  - ALL GIRDERS SHALL HAVE 1 1/2" DEEP BEARING ENDS UNLESS NOTED OTHERWISE.
  - OPEN WEB STEEL JOISTS AND JOIST GIRDERS SHALL BE DESIGNATED BY THE MANUFACTURER TO SUPPORT THE MECHANICAL AND LATERAL LOADS SHOWN ON THE ROOF FRAMING PLANS IN ADDITION TO THE UNIFORM AND POINT LOADS SHOWN.
  - CONTRACTOR SHALL NOT SUPPORT ANY LOADS FROM JOIST BRIDGING.
  - CONTRACTOR SHALL NOT ATTACH BRACING OR MEP OR FIRE PROTECTION TO BOTTOM CHORDS OF JOISTS OR BRIDGINS.
  - WHERE SKYLIGHTS OR MECHANICAL UNITS INTERRUPT HORIZONTAL BRIDGING, PROVIDE CROSS BRIDGING AT JOIST SPACES ON EA. SIDE, TYPICAL.
  - WHERE DIAGONAL BRIDGING CONFLICTS WITH MECHANICAL DUCTS, REMOVE DIAGONAL BRIDGING AND REPLACE WITH HORIZONTAL BRIDGING (AFTER ROOF DECK IS IN PLACE).
  - \* INDICATES THAT THESE JOISTS SHALL BE DESIGNED FOR AN ADDITIONAL LOAD OF 100# AT ANY TOP CHORD PANEL POINT. THIS LOAD IS TO BE ADDED TO THE GROSS TOP CHORD LOAD. MULTIPLE "\*" ARE ADDITIVE.
  - JOIST DESIGNER SHALL DESIGN JOISTS AND SUPPLY ADDITIONAL BRACING AS REQUIRED FOR NET UPLIFT DUE TO WIND (ALLOWABLE), SEE (SE804).
  - VERIFY SIZE, WEIGHT, AND LOCATION OF ALL ROOF TOP MECHANICAL UNITS WITH ARCHITECTURAL AND MECHANICAL DRAWINGS. COORDINATE OPENINGS WITH MECHANICAL, ELECTRICAL, AND GENERAL CONTRACTORS.
  - SPRINKLER DESIGNER SHALL COORDINATE THE SPRINKLER DESIGN WITH THE JOIST GIRDER SHOP DRAWINGS.
  - ALL JOIST TOP CHORDS BEARING AT THE MASONRY WALLS SHALL BE DESIGNED FOR A MINIMUM AXIAL LOAD OF 10 KIPS IN TENSION AND COMPRESSION THAT REDUCES TO 0.0 KIPS AT THE OPPOSITE END OF THE JOIST. LOADS ARE DUE TO SEISMIC AND ARE PROVIDED AT ULTIMATE STRENGTH LEVEL INCLUDING OVERSTRENGTH FACTOR OF 1.4. JOIST SUPPLIER TO DESIGN JOISTS TO TRANSFER THIS ANCHORAGE LOAD THROUGH THE JOIST BEARING SEAT.
  - SPRINKLER DESIGNER SHALL COORDINATE
  - SEE SCHEDULES ON SE800 SHEETS FOR:
    - STEEL COLUMN
    - CONCRETE AND MASONRY LINTELS
  - SEE TYPICAL FRAMING DETAILS ON (SE700) SHEETS FOR:
    - FRAMING AT ROOF OPENINGS, MECHANICAL UNITS, SKYLIGHTS AND ROOF DRAINS
    - PIPE SLEEVES THROUGH ROOF DECK
    - SUSPENDED LOADS ON ROOF DECK
    - JOIST REINFORCING AT POINT LOADS
    - JOIST TOP CHORD TIE

- MARKS AND SYMBOLS LEGEND**
- SECTION MARK SHEET NUMBER
  - FRAME ELEVATION SHEET NUMBER
  - MTL ROOF DECK, SEE GSN
  - CONCRETE OVER METAL DECK, SEE GENERAL STRUCTURAL NOTES
  - MASONRY WALL
  - BRG WALL BLW
  - STEEL COLUMN
  - JOIST TOP CHORD TIE
  - STEEL STUD HEADER, SEE SCHEDULE
  - Masonry Lintel, SEE SCHEDULE
  - ROOF JOIST TOP CHORD SHALL BE DESIGNED FOR AN ADDITIONAL LOAD OF X KIPS IN TENSION AND COMPRESSION. LOADS ARE PROVIDED AT ULTIMATE STRENGTH LEVEL.
  - ROOF DRAIN SEE (S) (SE701.1) AND SEE ARCHITECTURAL AND MECHANICAL FOR EXACT LOCATION
  - LATERAL FRAME MOMENT CONNECTIONS SEE DET (1) (SE701.1)
  - FRAME OR COLLECTOR BRACE, SEE DET (15) (SE703.1)



**1 HIGH ROOF FRAMING PLAN**  
SE103.1 SCALE: 1/8" = 1'-0"

2024-08-26  
BID PACKAGE #1

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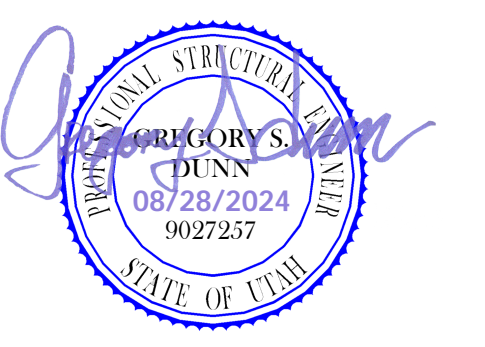
PROJECT **240104**

BID PACKAGE #1 2024-08-26

REVISIONS

NO.	DATE	DESCRIPTION

**DTC WELDING TECH & FABRICATION**  
**BUILDING**  
355 SOUTH 650 EAST  
KAYSVILLE, UT 84037

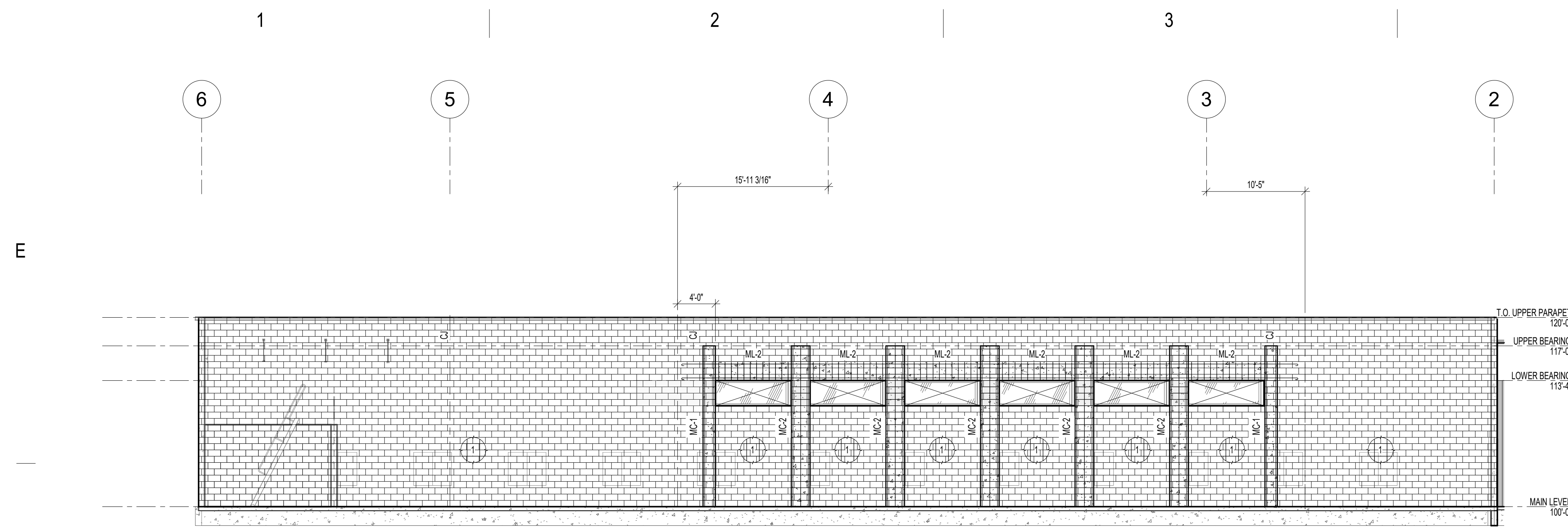


HIGH ROOF FRAMING PLAN  
**SE103.1**

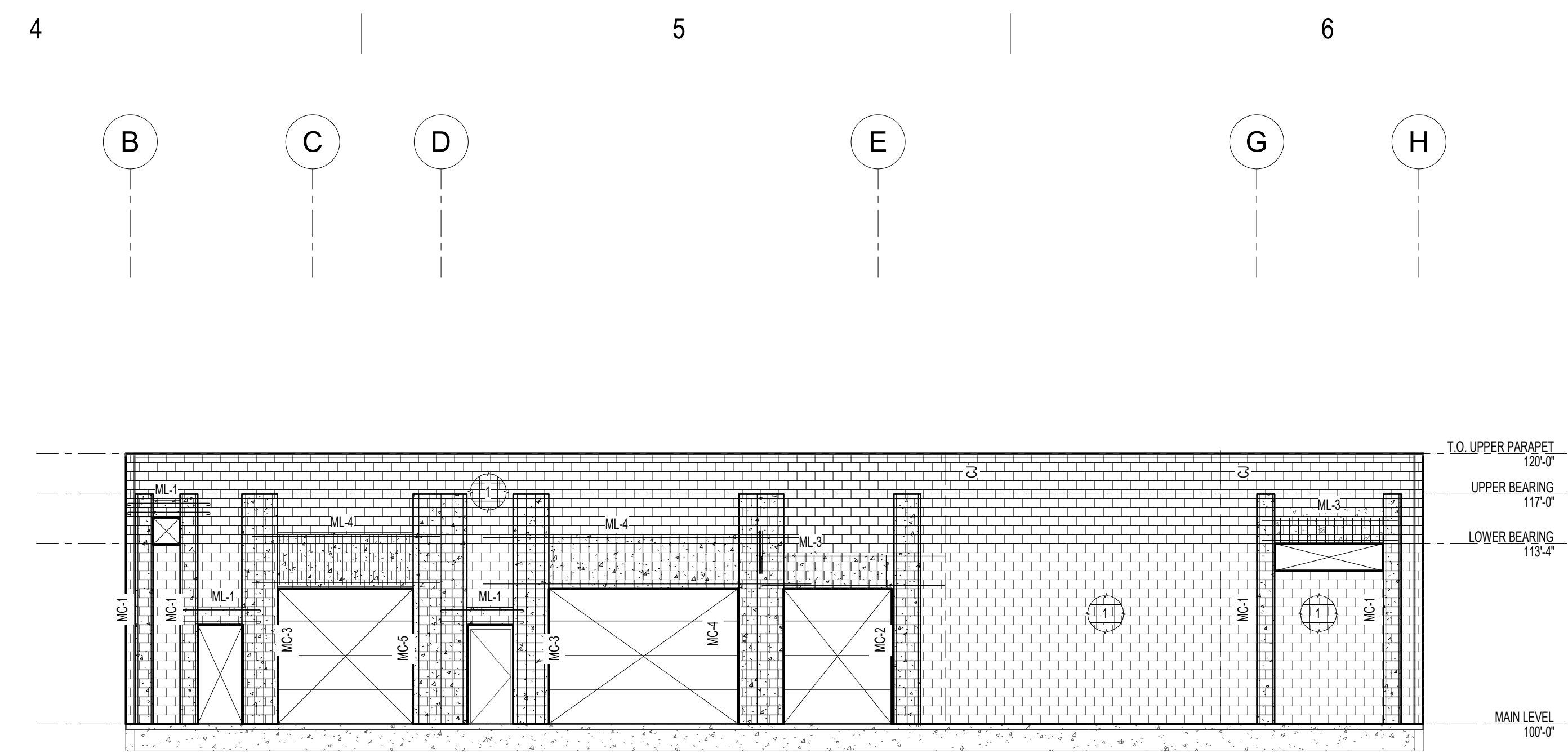
(801) 355-5915

REVISIONS

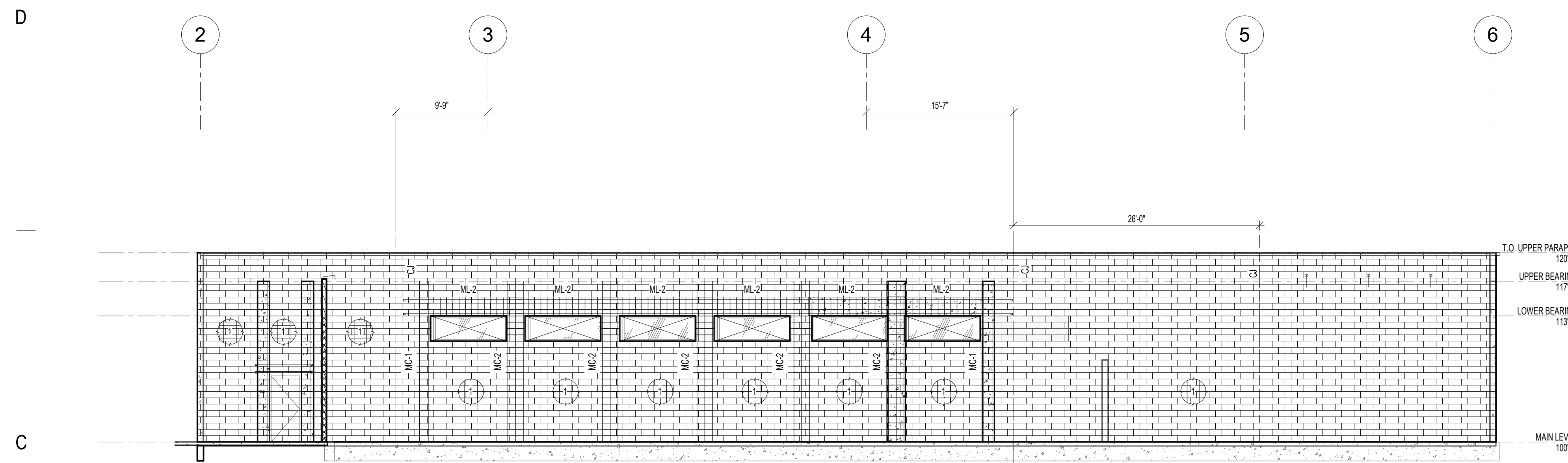
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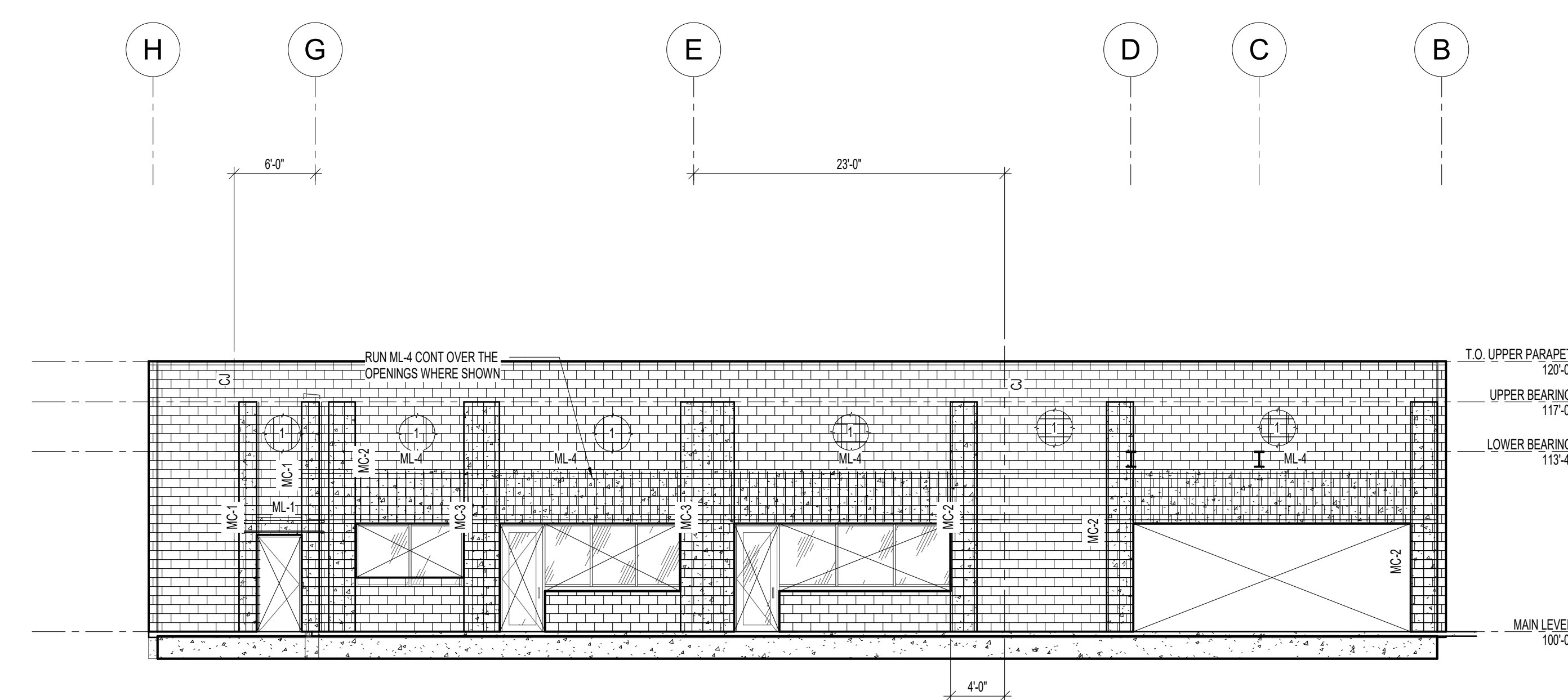
**1** MASONRY WALL REINFORCING ELEVATION  
SE201.1 SCALE: 1/8" = 1'-0"



**2** MASONRY WALL REINFORCING ELEVATION  
SE201.1 SCALE: 1/8" = 1'-0"



**3** MASONRY WALL REINFORCING ELEVATION  
SE201.1 SCALE: 1/8" = 1'-0"



**4** MASONRY WALL REINFORCING ELEVATION  
SE201.1 SCALE: 1/8" = 1'-0"

MASONRY WALL REINFORCING		
WALL TYPE	VERTICAL REINFORCING	HORIZONTAL REINFORCING
1	(1) #5 AT 32"oc	(1) #5 AT 32"oc

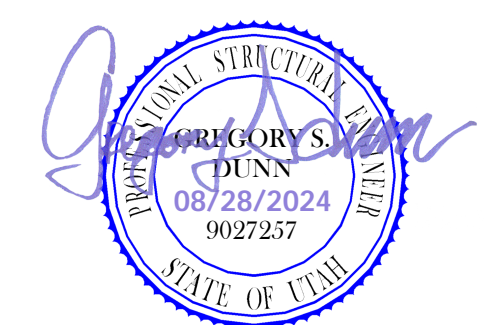
  

	MASONRY WALL REINFORCING TYPE
	SECTION MARK SHEET NUMBER
ML-x	MASONRY LINTEL, SEE SCHEDULE
MC-x	MASONRY COLUMN, SEE SCHEDULE
CJ	CONTROL JOINT

2024-08-26  
BID PACKAGE #1

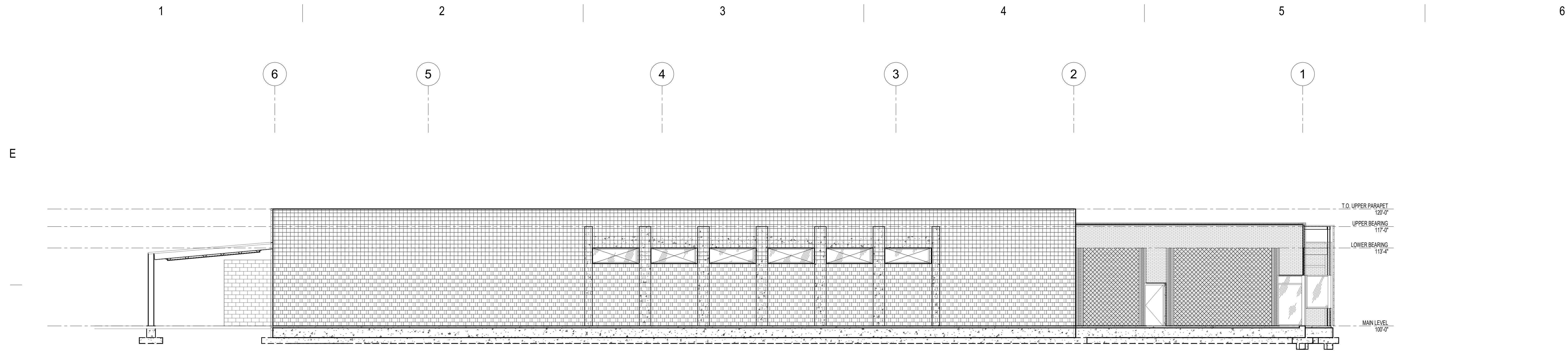
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**DTC WELDING TECH & FABRICATION**  
**BUILDING**  
355 SOUTH 650 EAST  
KAYSVILLE, UT 84037

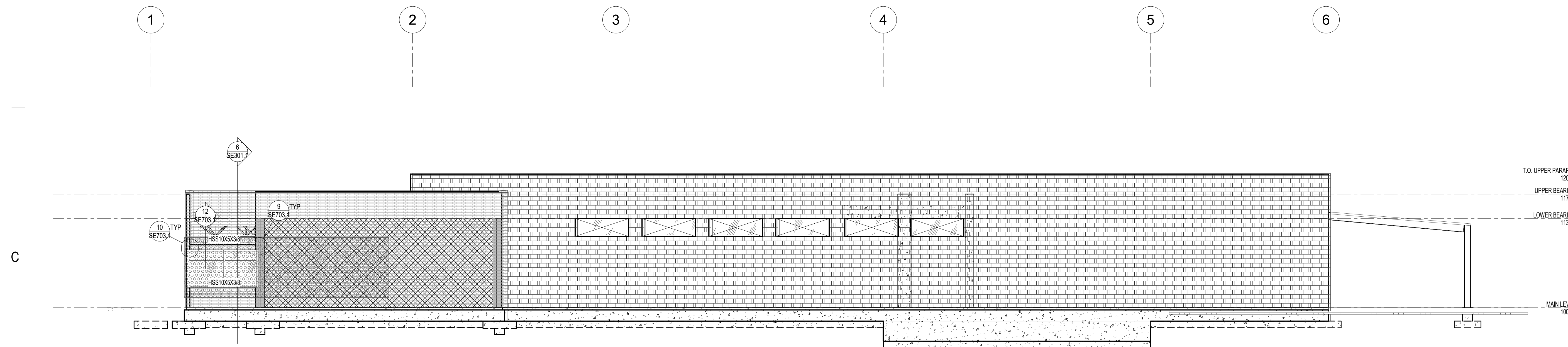


ELEVATIONS  
**SE201.1**

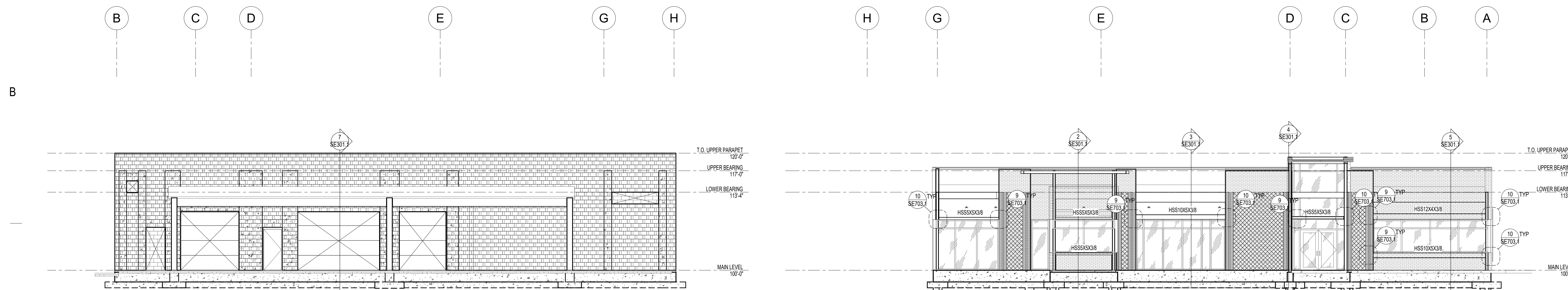
(801) 355-5915



**1 BUILDING ELEVATION**  
SE211.1 SCALE: 1/8" = 1'-0"



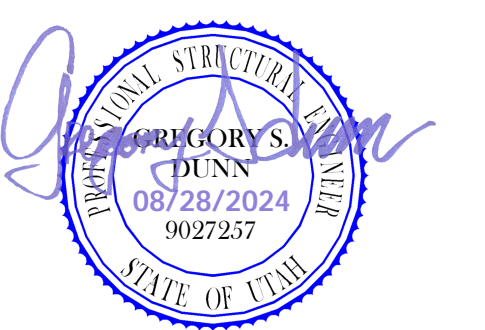
**2 BUILDING ELEVATION**  
SE211.1 SCALE: 1/8" = 1'-0"



**3 BUILDING ELEVATION**  
SE211.1 SCALE: 1/8" = 1'-0"

**4 BUILDING ELEVATION**  
SE211.1 SCALE: 1/8" = 1'-0"

**DTC WELDING TECH & FABRICATION  
BUILDING**  
355 SOUTH 650 EAST  
KAYSVILLE, UT 84037

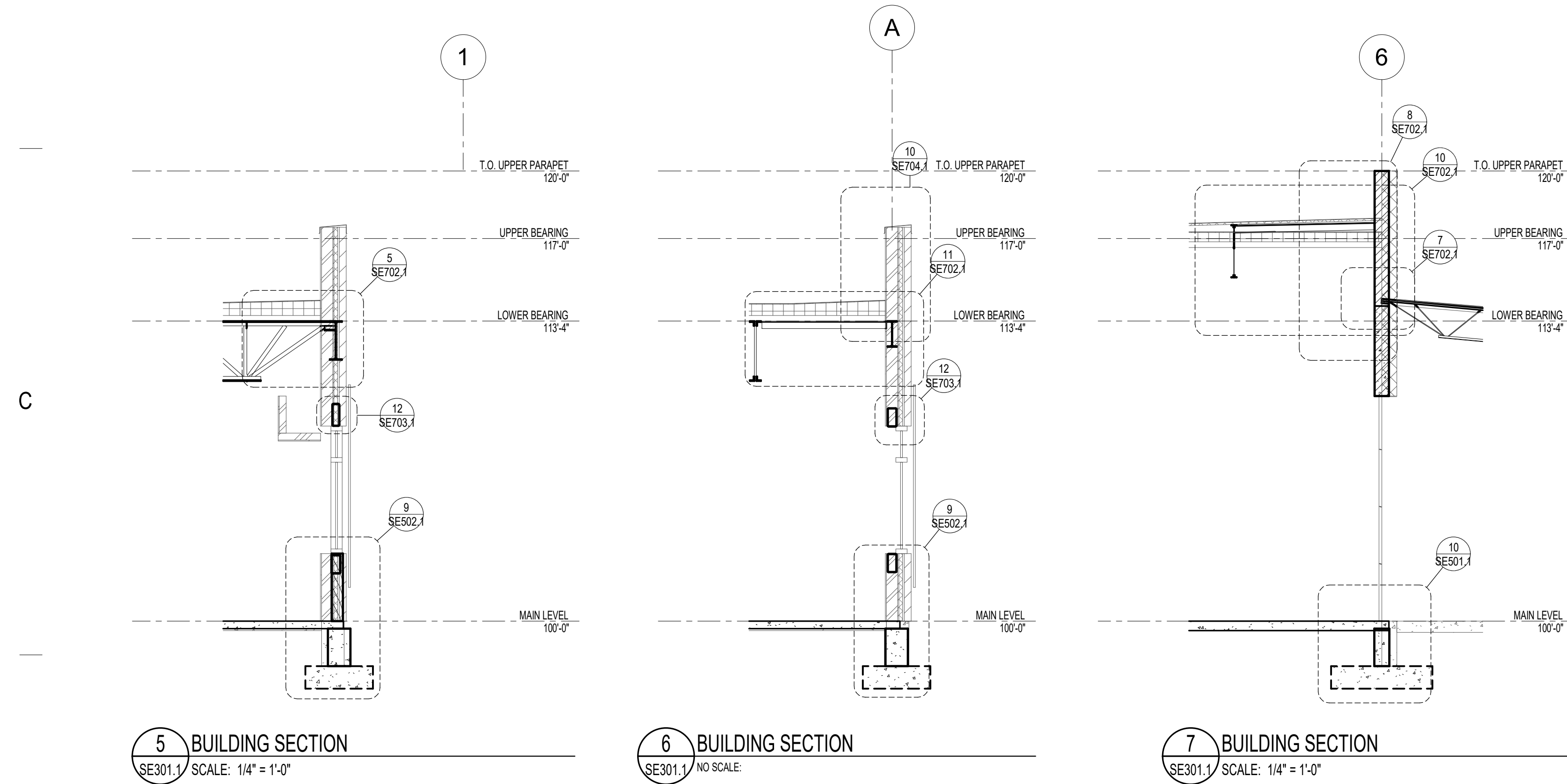
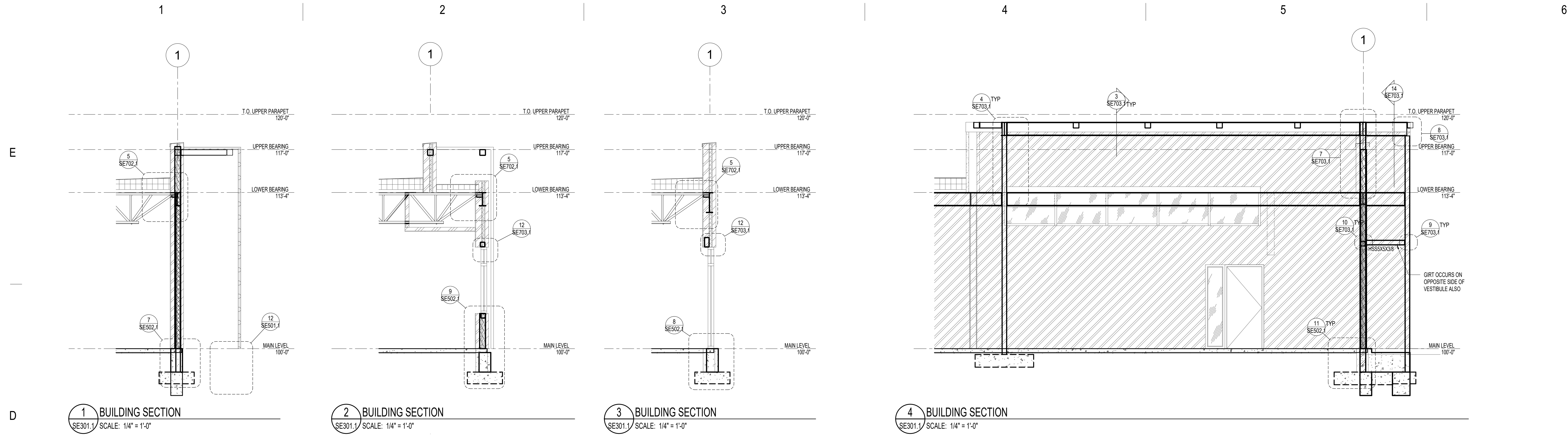


2024-08-26  
BID PACKAGE #1

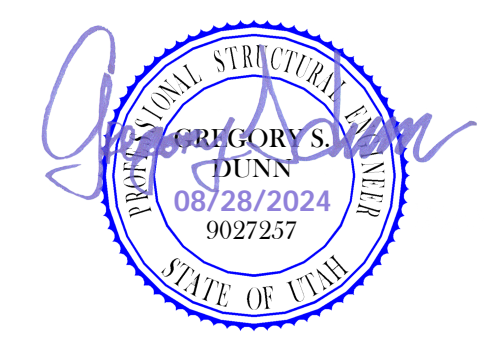
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**BUILDING  
ELEVATIONS  
SE211.1**

(801) 355-5915



**DTC WELDING TECH & FABRICATION**  
**BUILDING**  
355 SOUTH 650 EAST  
KAYSVILLE, UT 84037

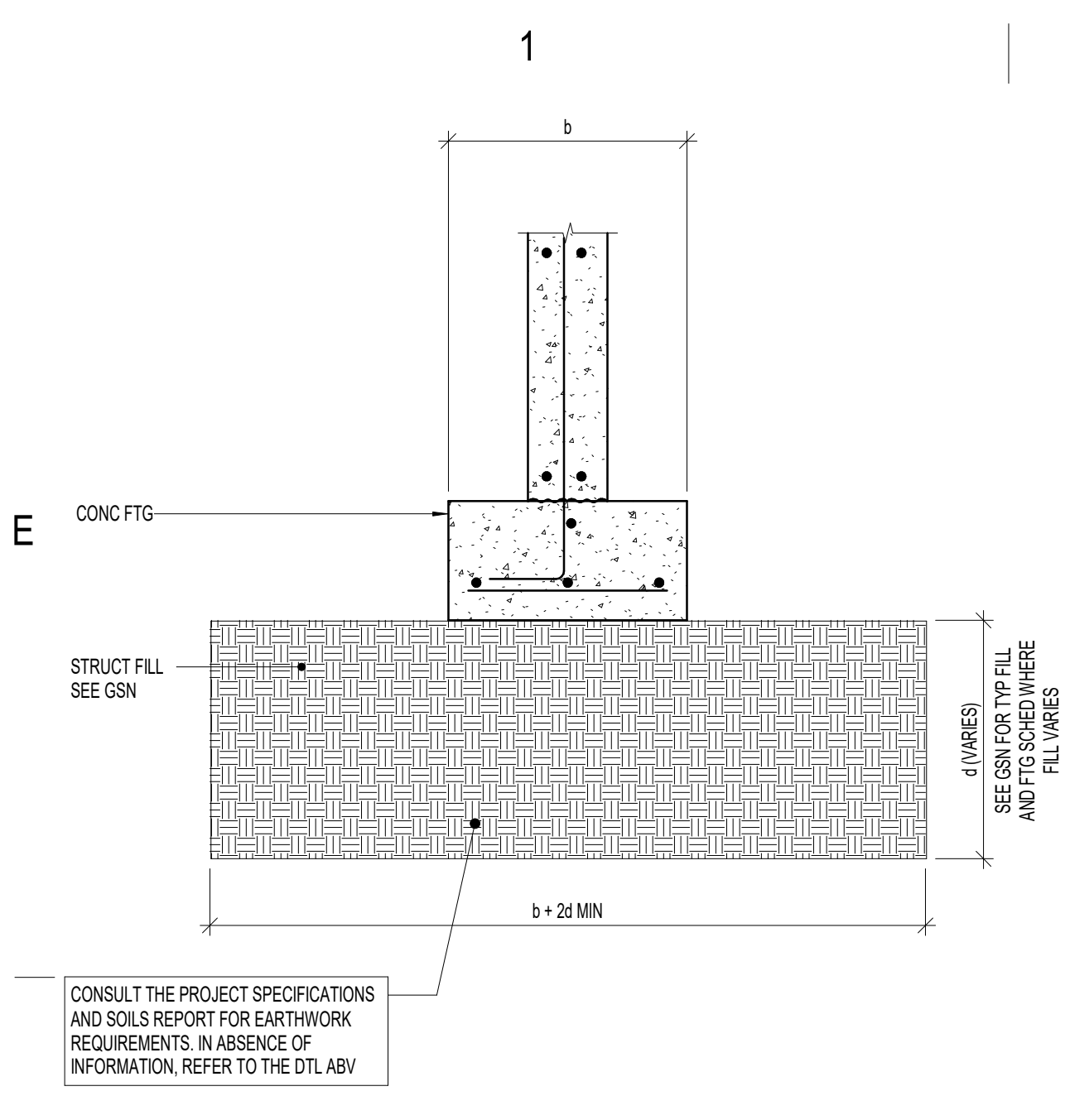


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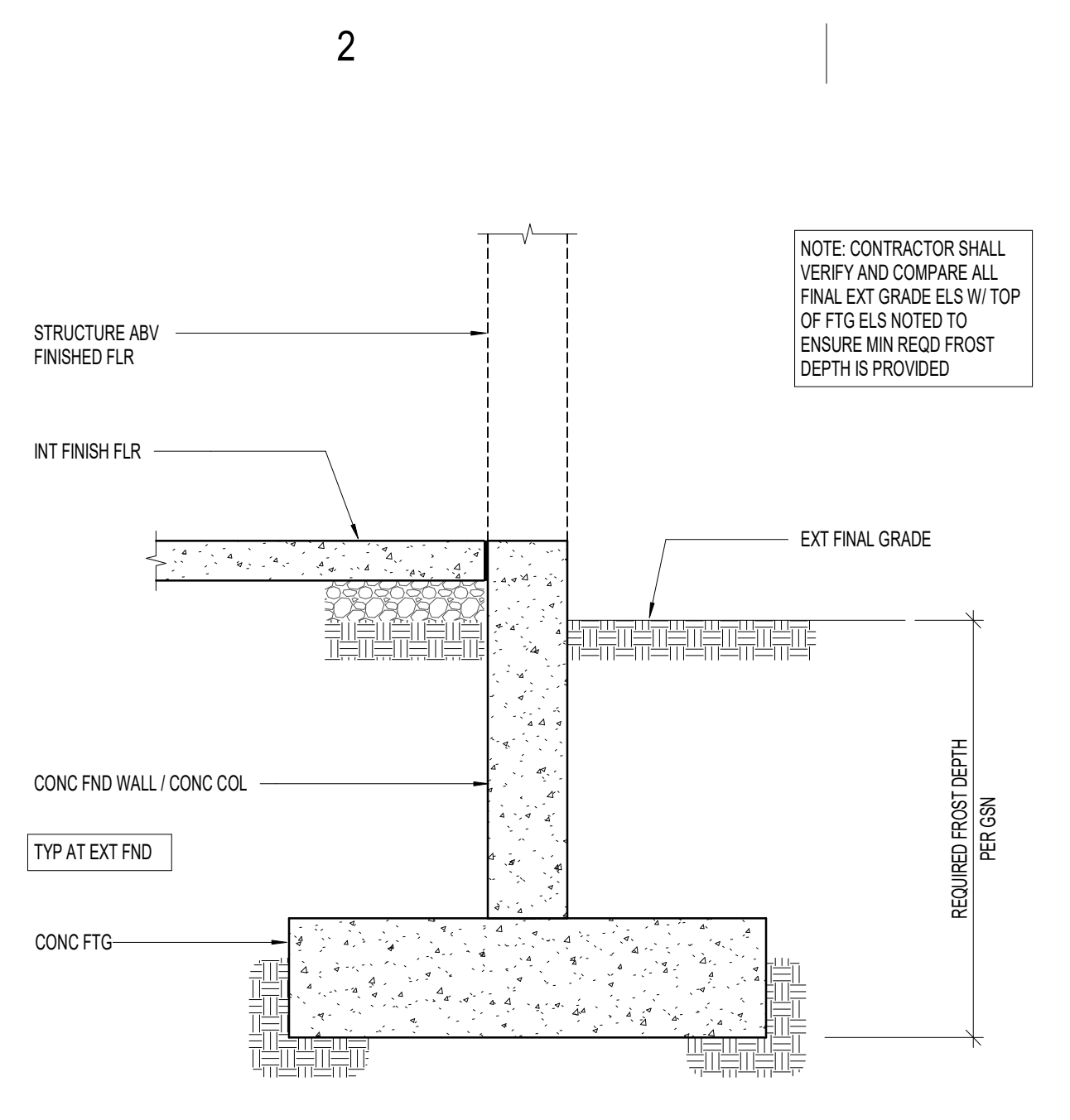
NOTE:  
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**BUILDING SECTIONS**  
**SE301.1**

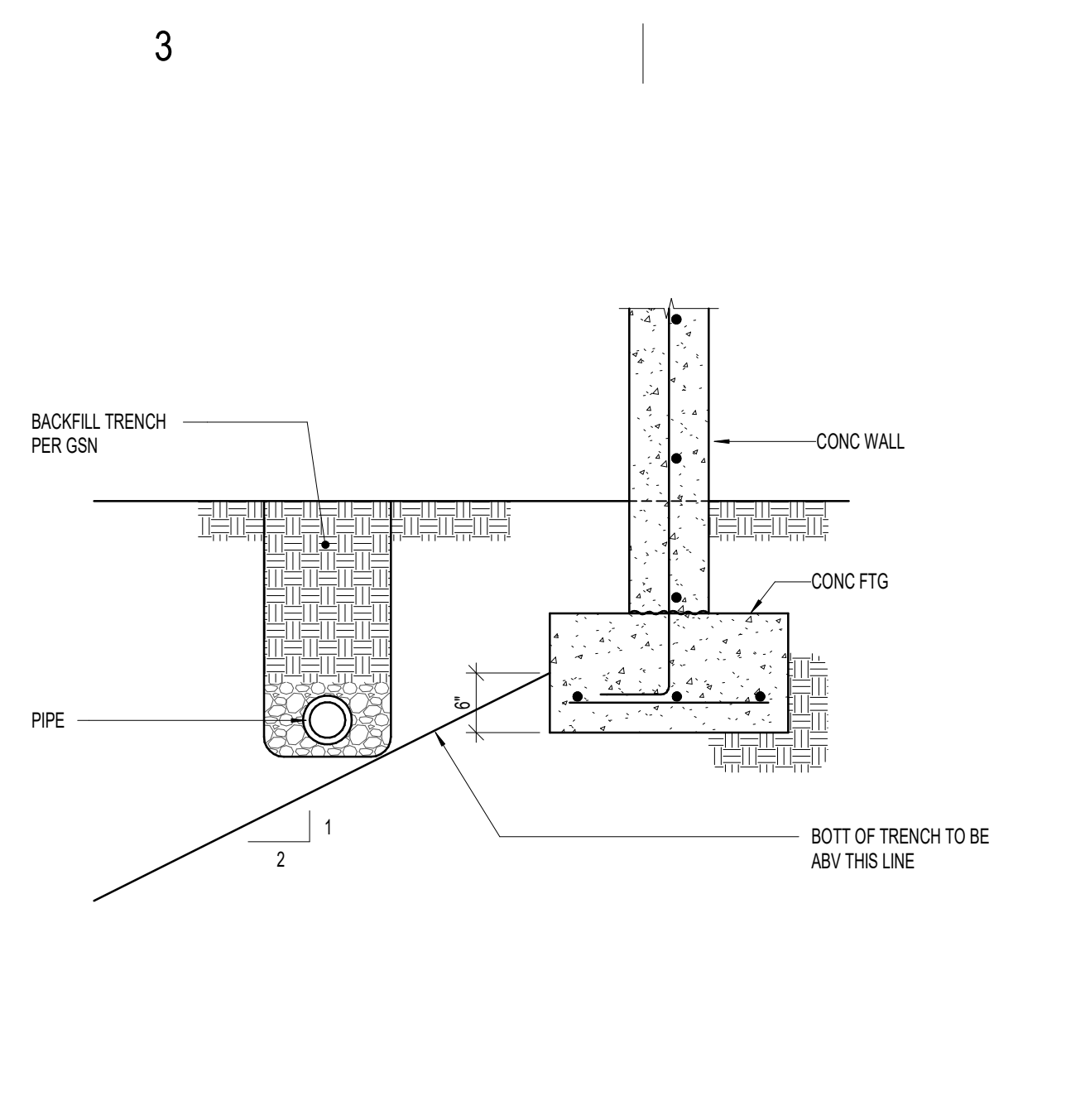




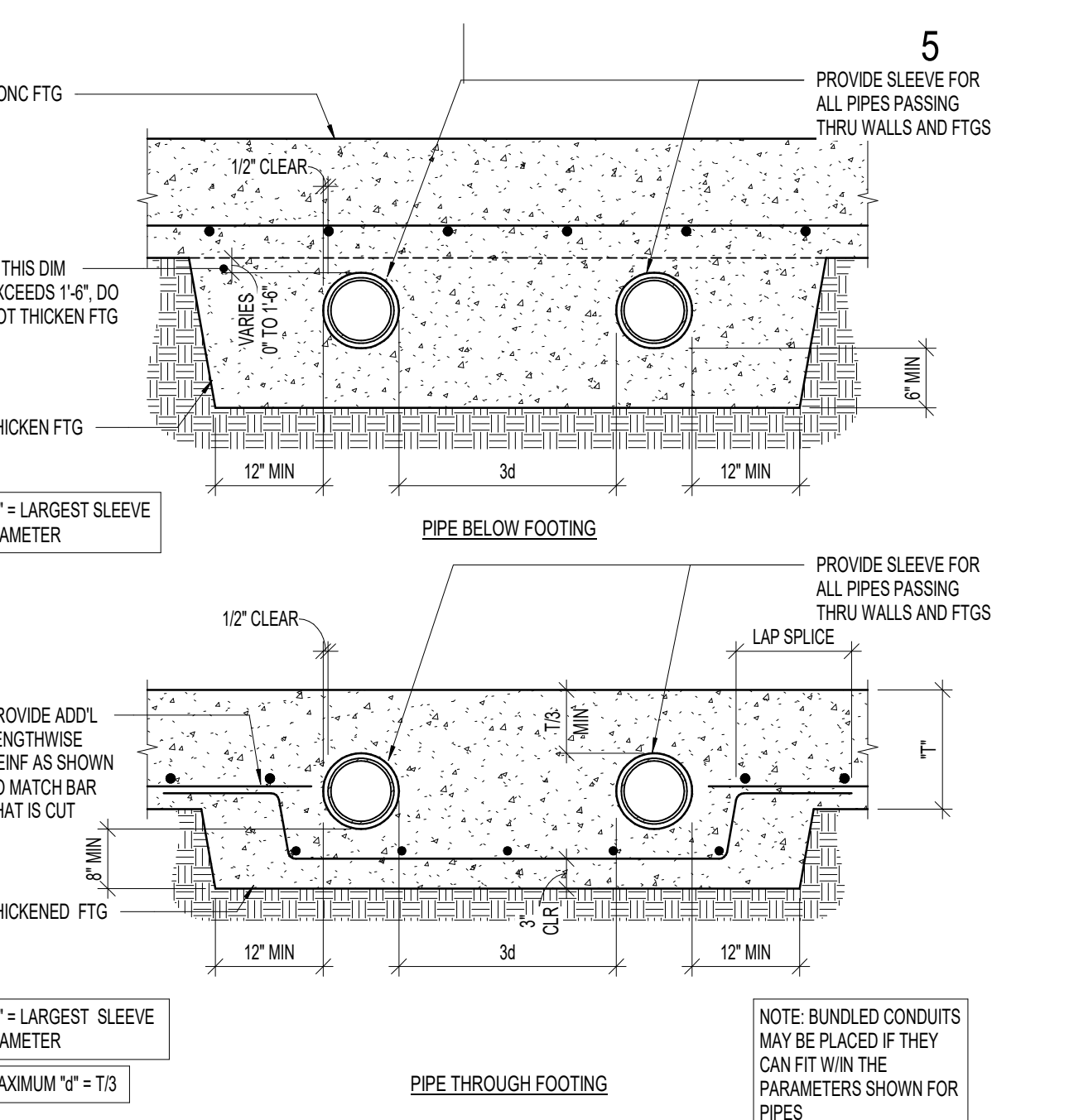
**1** TYPICAL COMPACTED STRUCTURAL FILL  
 SE501.1 NO SCALE  
 10000



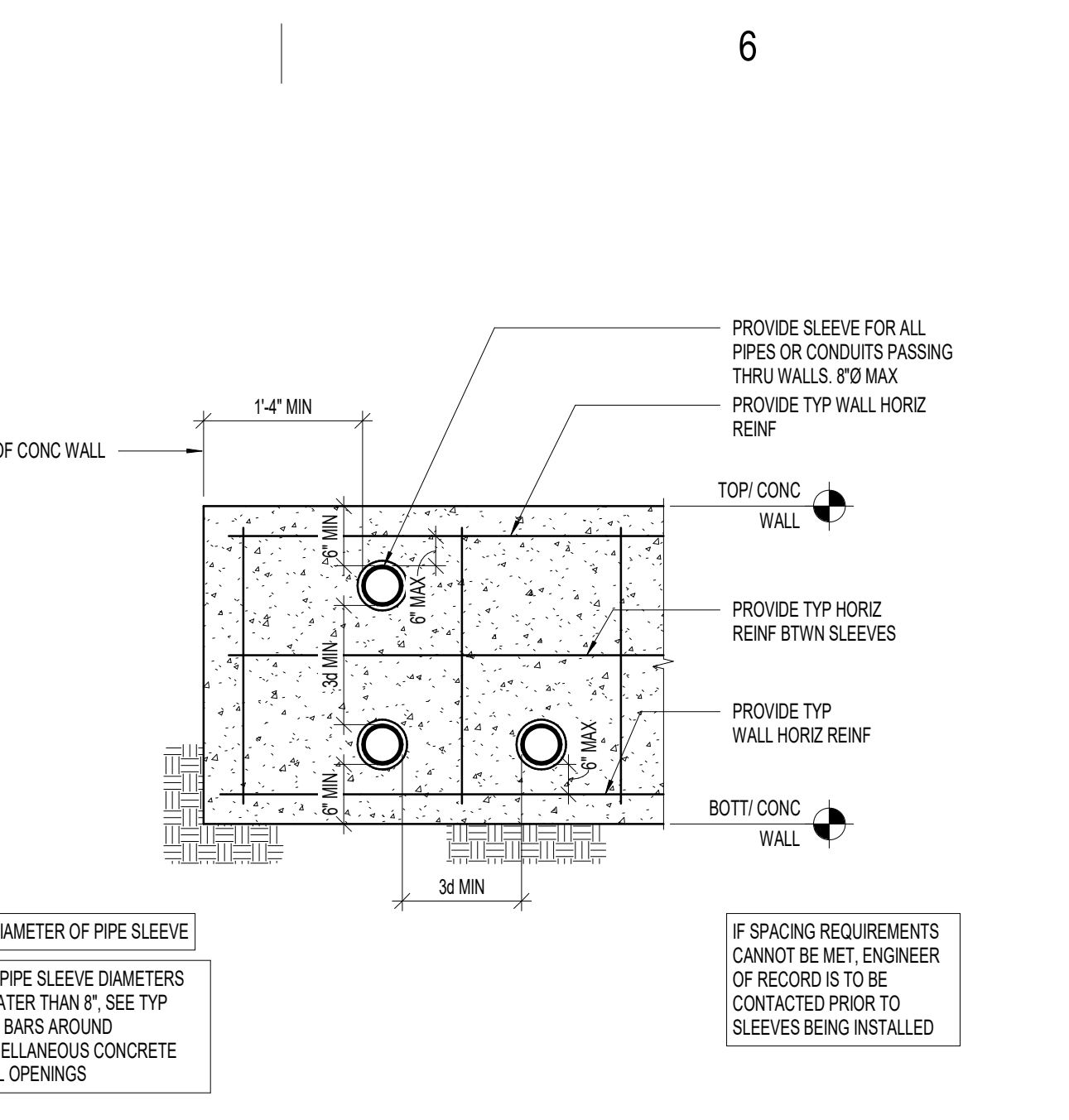
**2** TYPICAL FOOTING DEPTH DETAIL FOR FROST PROTECTION  
 SE501.1 NO SCALE  
 10000



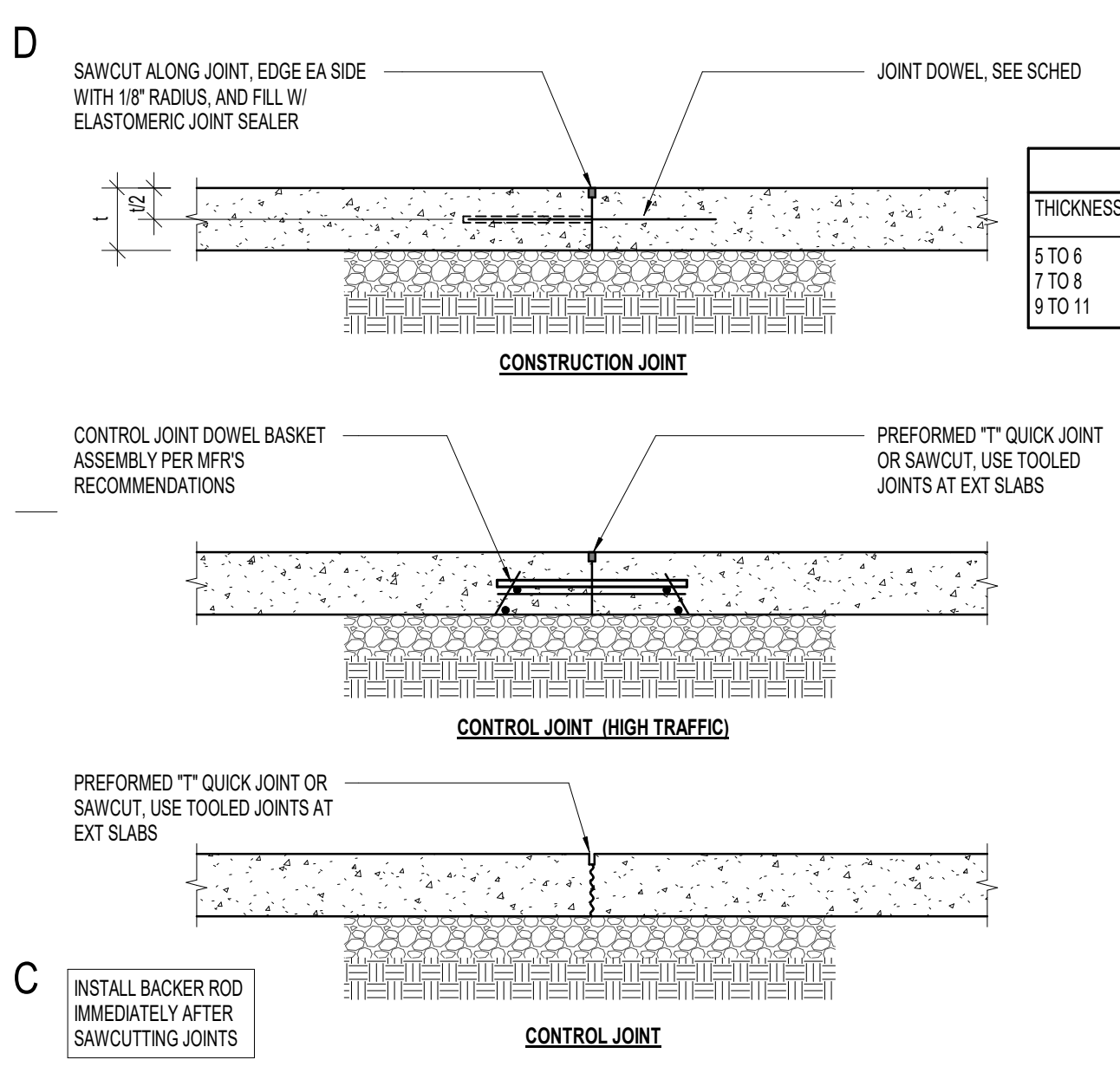
**3** TYPICAL PIPE PARALLEL TO FOOTING  
 SE501.1 NO SCALE  
 10000



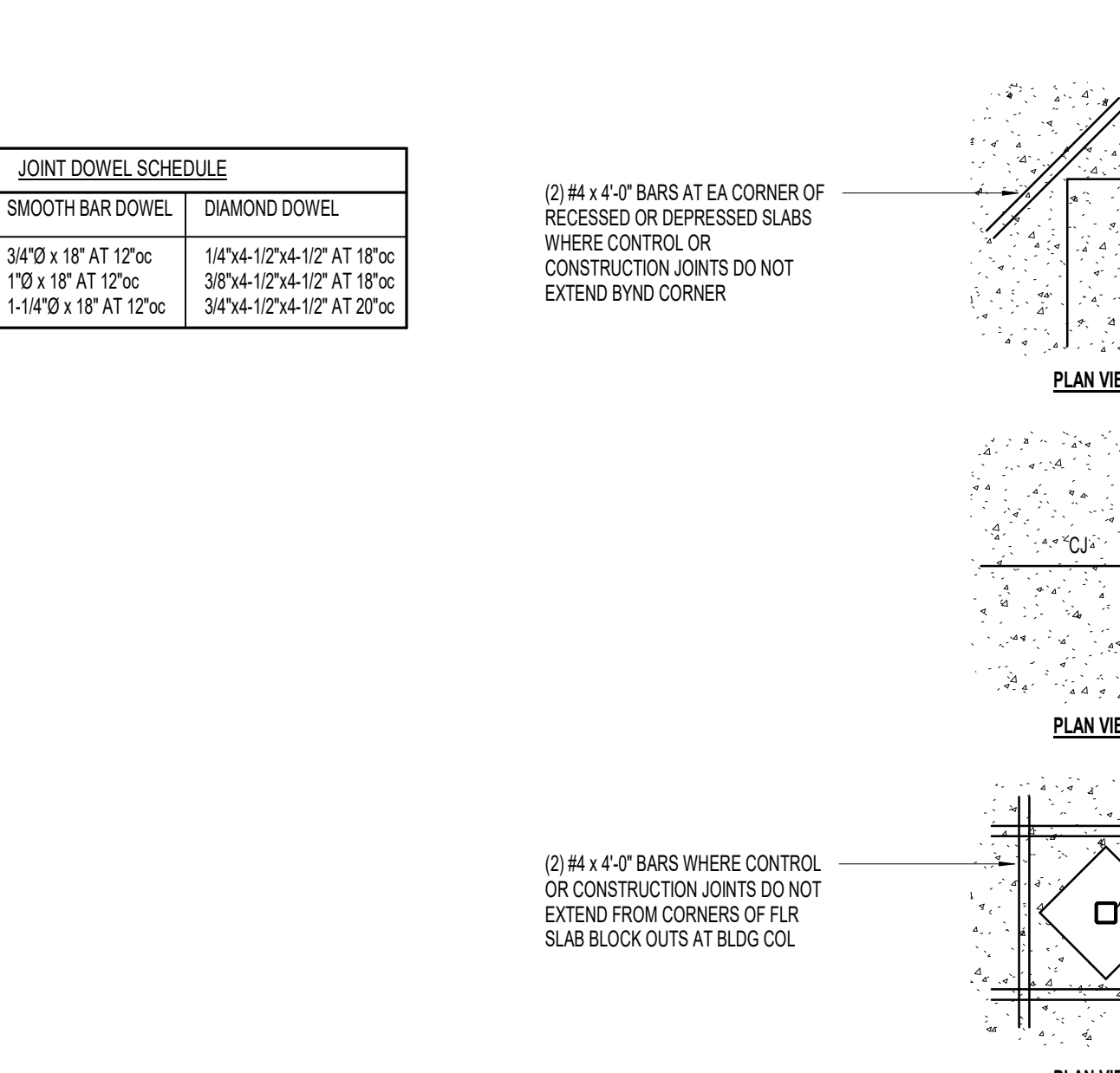
**4** TYPICAL PIPE PERPENDICULAR TO FOOTING  
 SE501.1 NO SCALE  
 10000



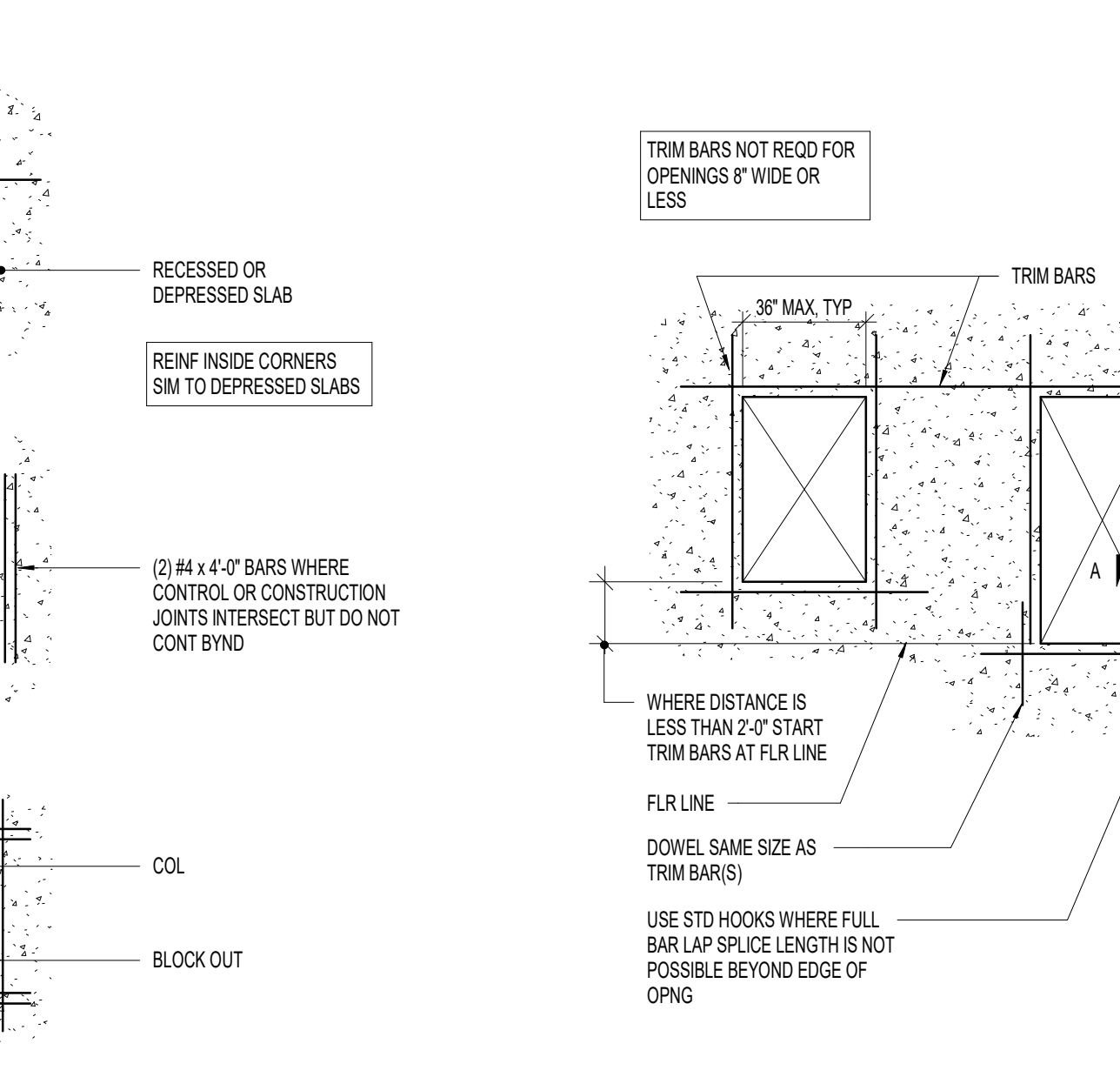
**5** TYPICAL SMALL PIPE OR CONDUIT THROUGH CONCRETE WALL  
 SE501.1 NO SCALE  
 10000



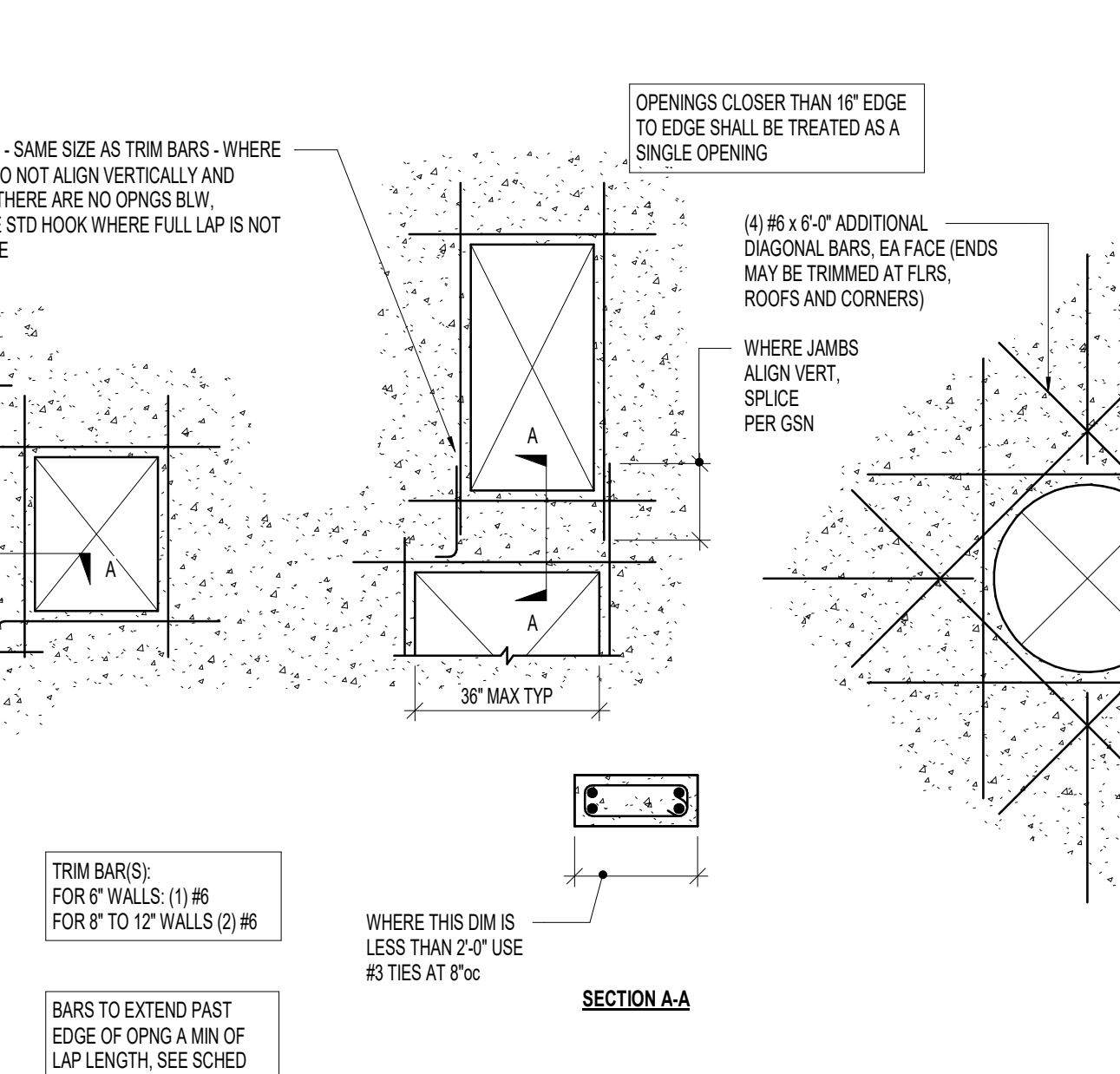
**6** TYPICAL UNREINFORCED STRUCTURAL SLAB ON GRADE JOINTS  
 SE501.1 NO SCALE  
 10000



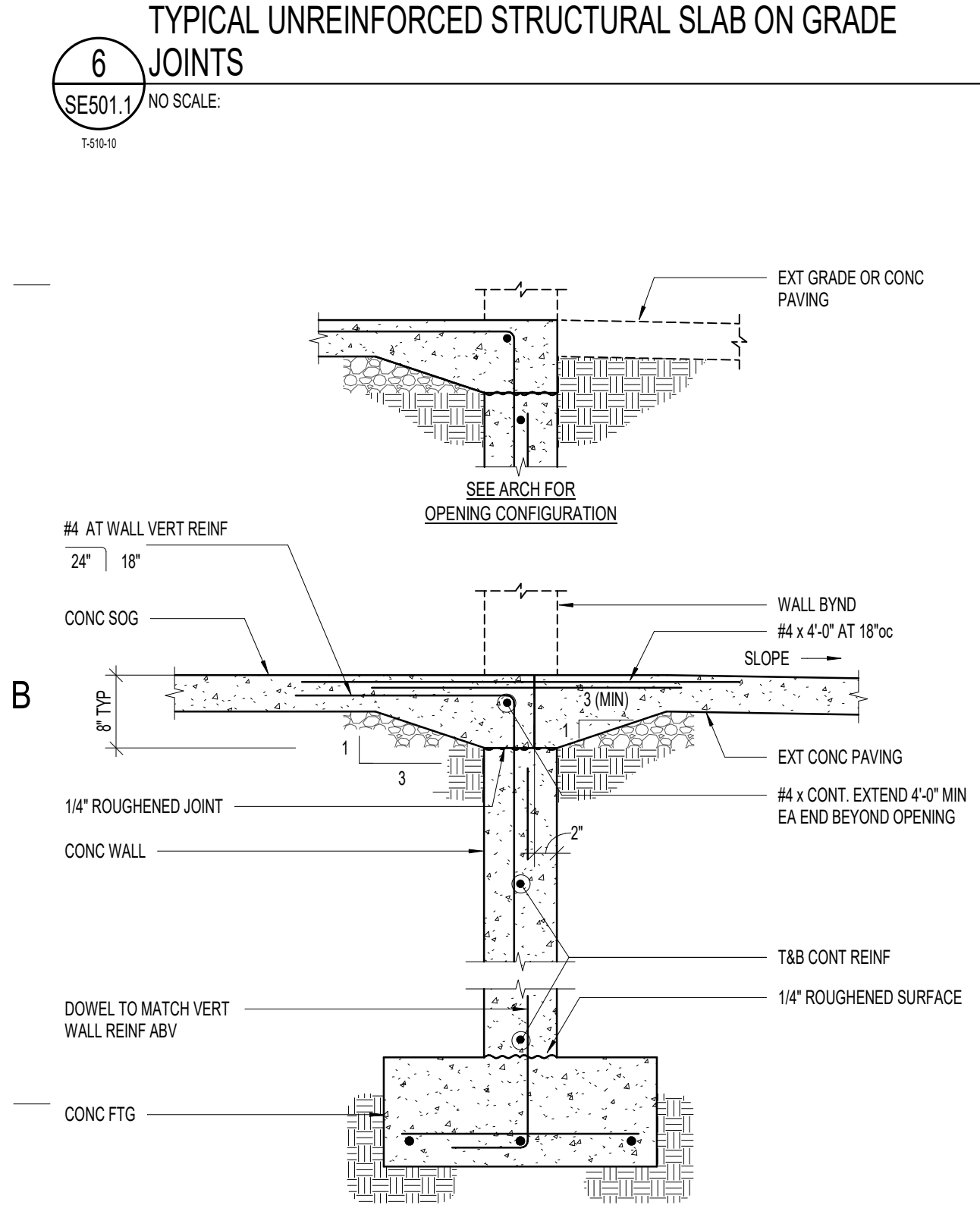
**7** TYPICAL SLAB ON GRADE DISCONTINUITIES REQUIRING ADDITIONAL REINFORCING  
 SE501.1 NO SCALE  
 10000



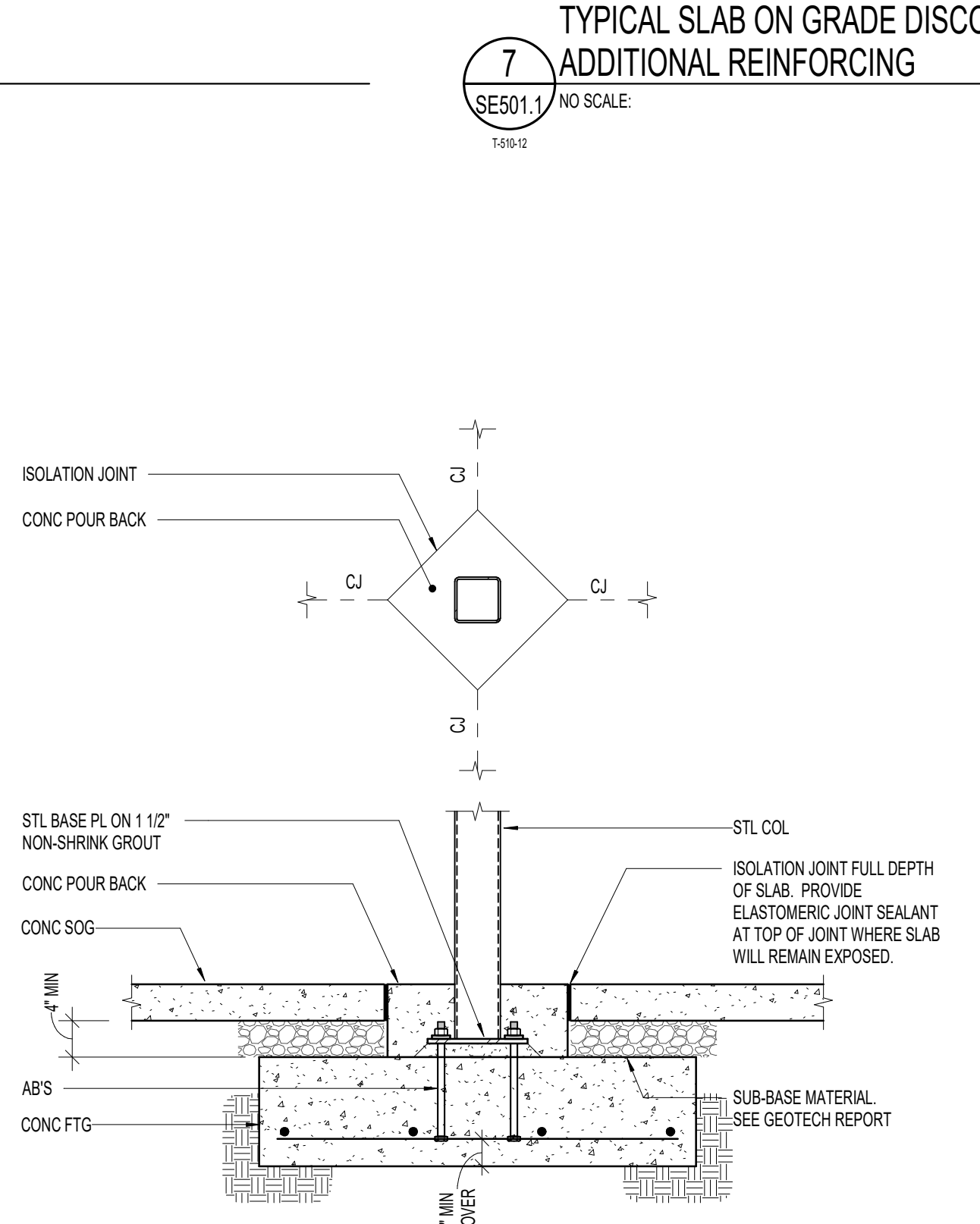
**8** TYPICAL TRIM BARS AROUND MISCELLANEOUS CONCRETE WALL OPENINGS UNLESS NOTED OTHERWISE  
 SE501.1 NO SCALE  
 10000



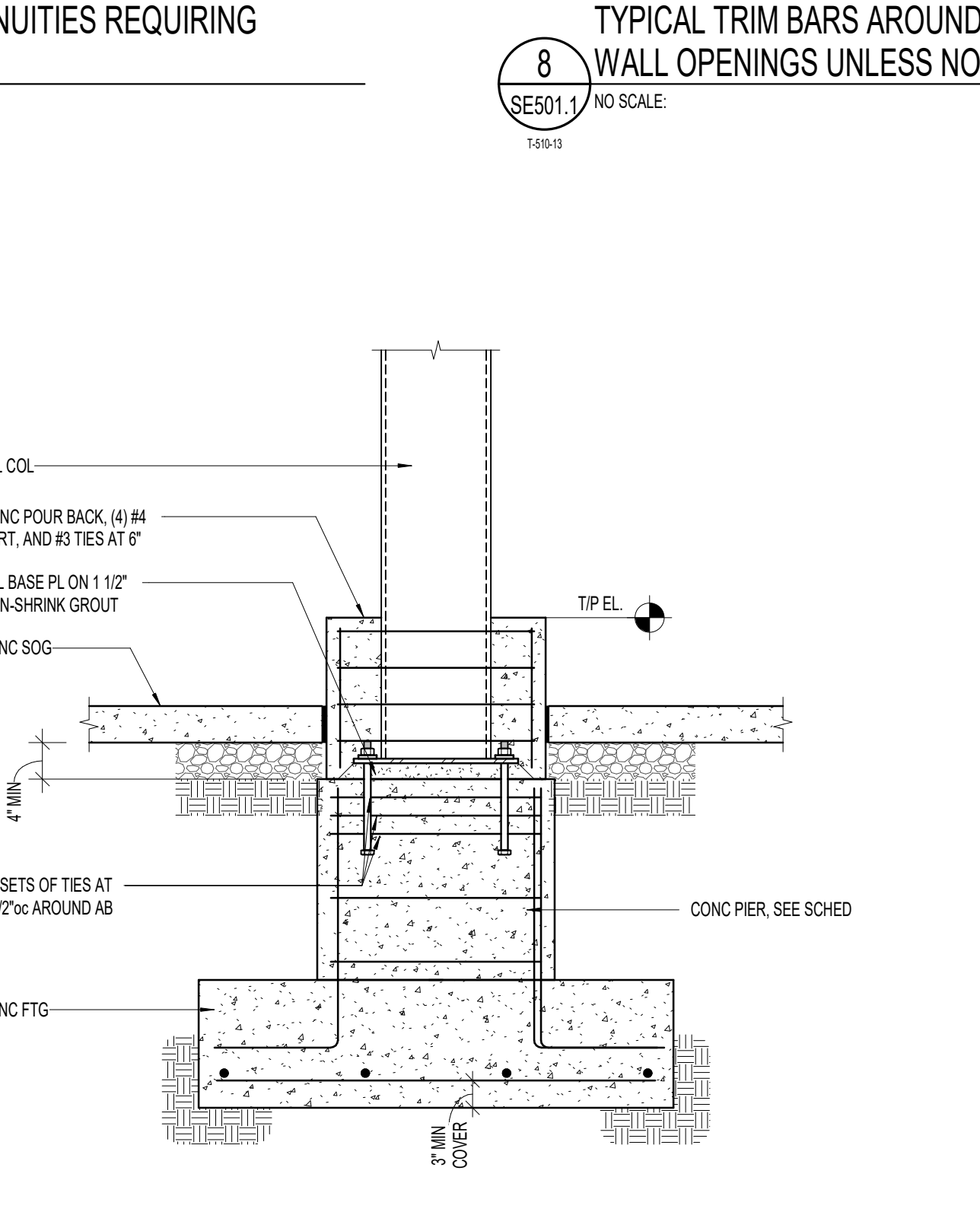
**9** TYPICAL CORNER BARS FOR SINGLE REINFORCED CONCRETE WALLS (PLAN VIEW)  
 SE501.1 NO SCALE  
 10000



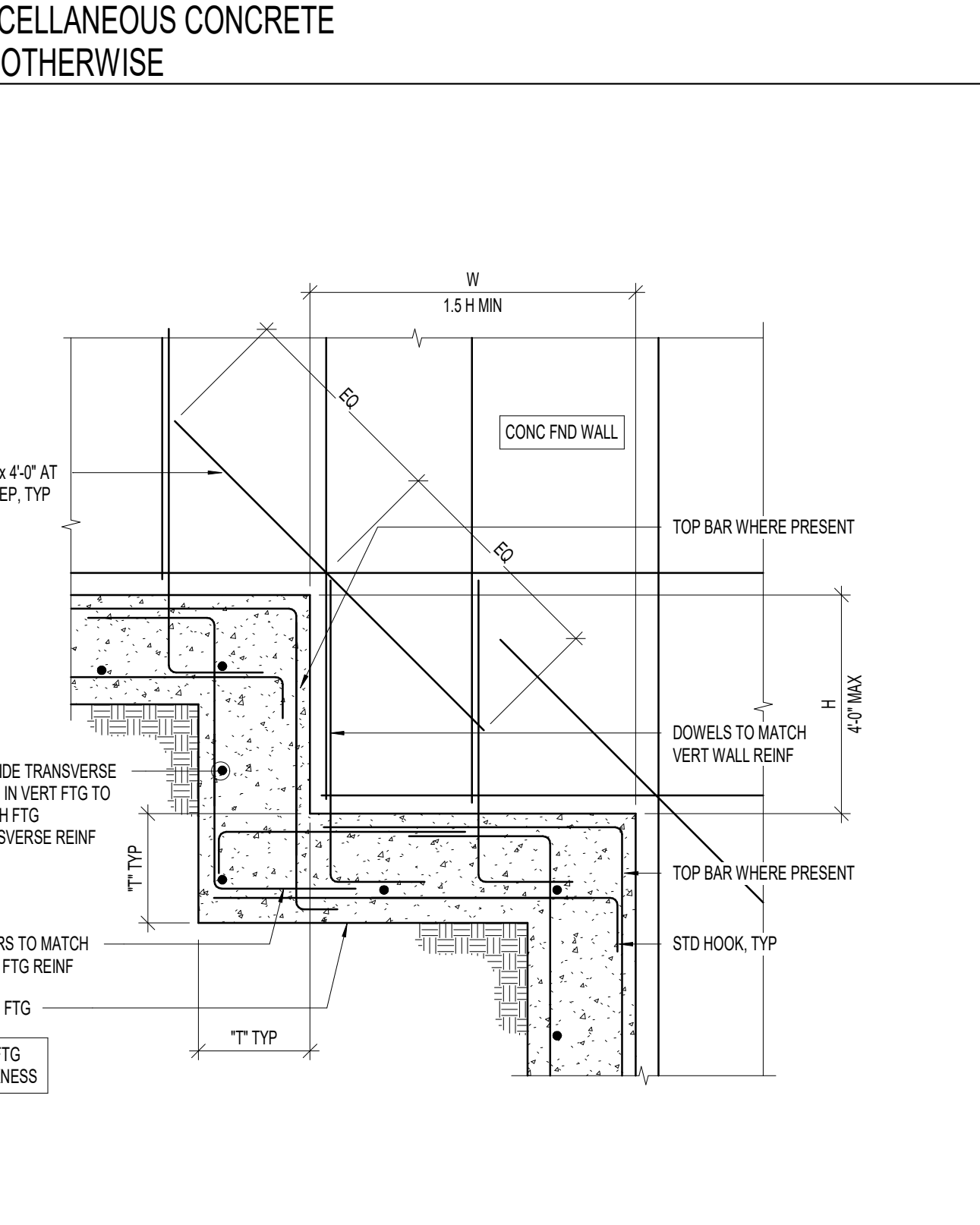
**10** FOUNDATION WALL AT OPENING DETAIL  
 SE501.1 NO SCALE  
 10000



**11** TYPICAL TUBE STEEL COLUMN TO CONCRETE FOOTING  
 SE501.1 NO SCALE  
 10000

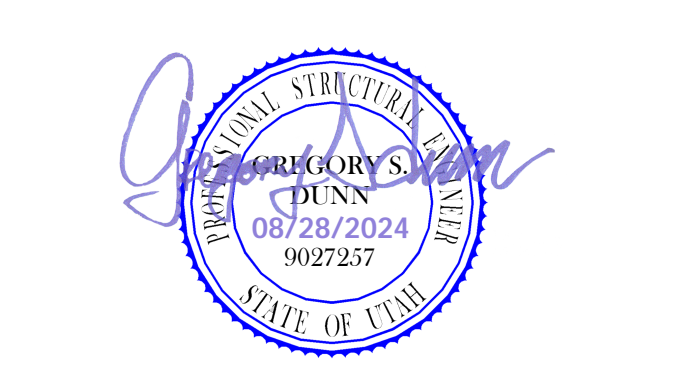


**12** TYPICAL TUBE STEEL COLUMN TO CONCRETE PIER  
 SE501.1 NO SCALE  
 10000



**13** TYPICAL FOOTING STEP AT CONCRETE FOUNDATION WALL  
 SE501.1 NO SCALE  
 10000

**DTC WELDING TECH & FABRICATION**  
**BUILDING**  
 355 SOUTH 650 EAST  
 KAYSVILLE, UT 84037



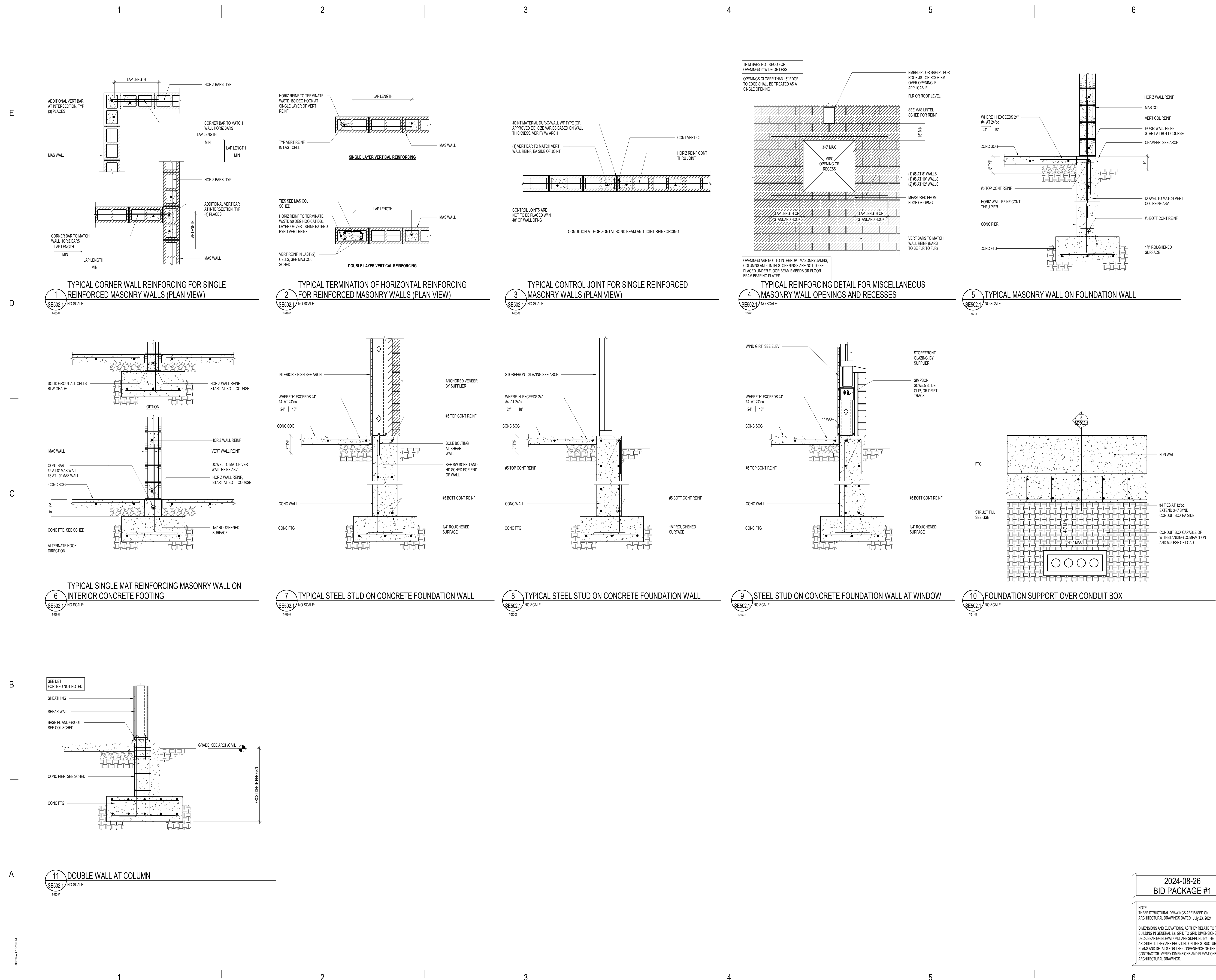
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 BID PACKAGE #1

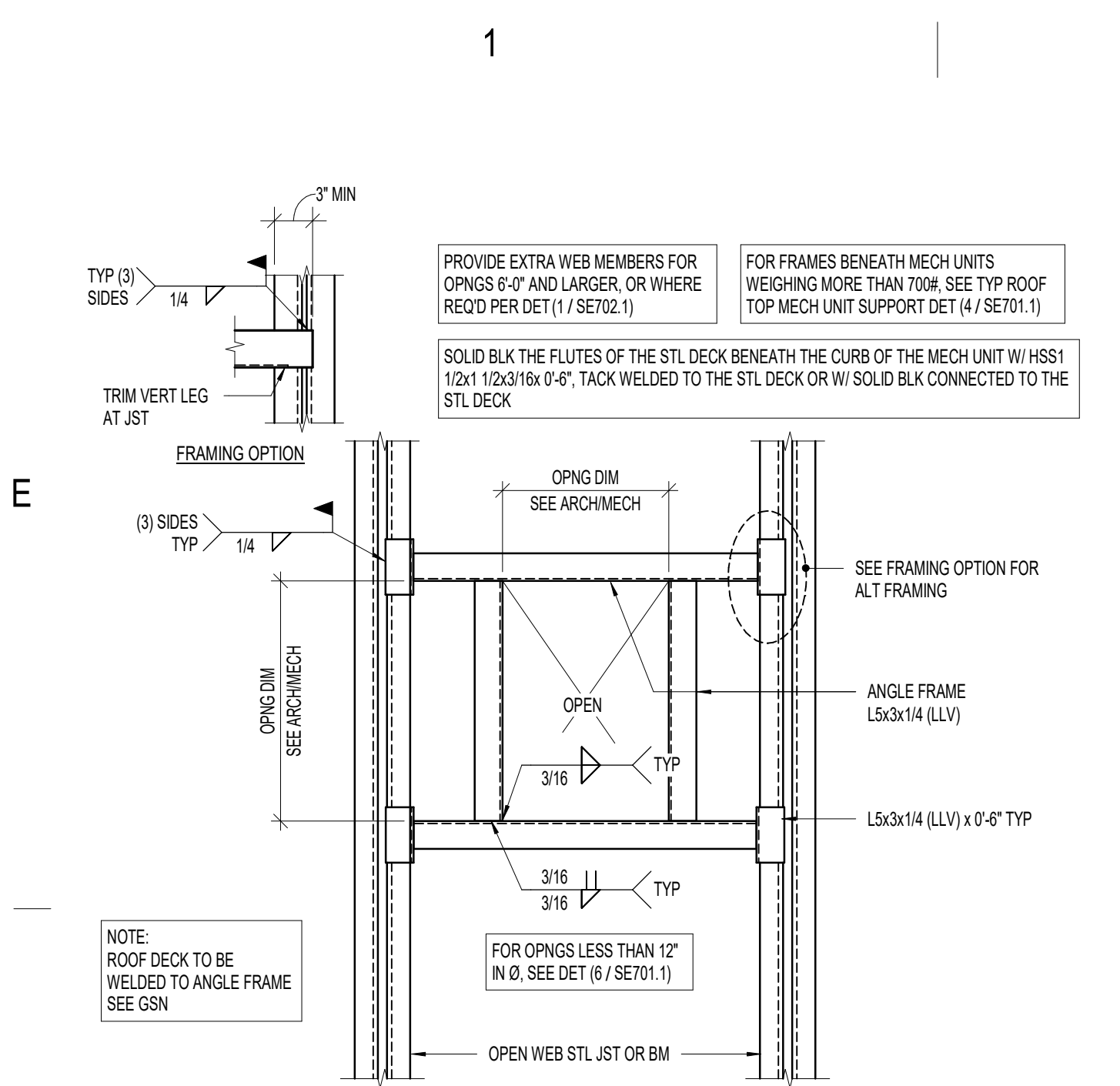
NOTE:  
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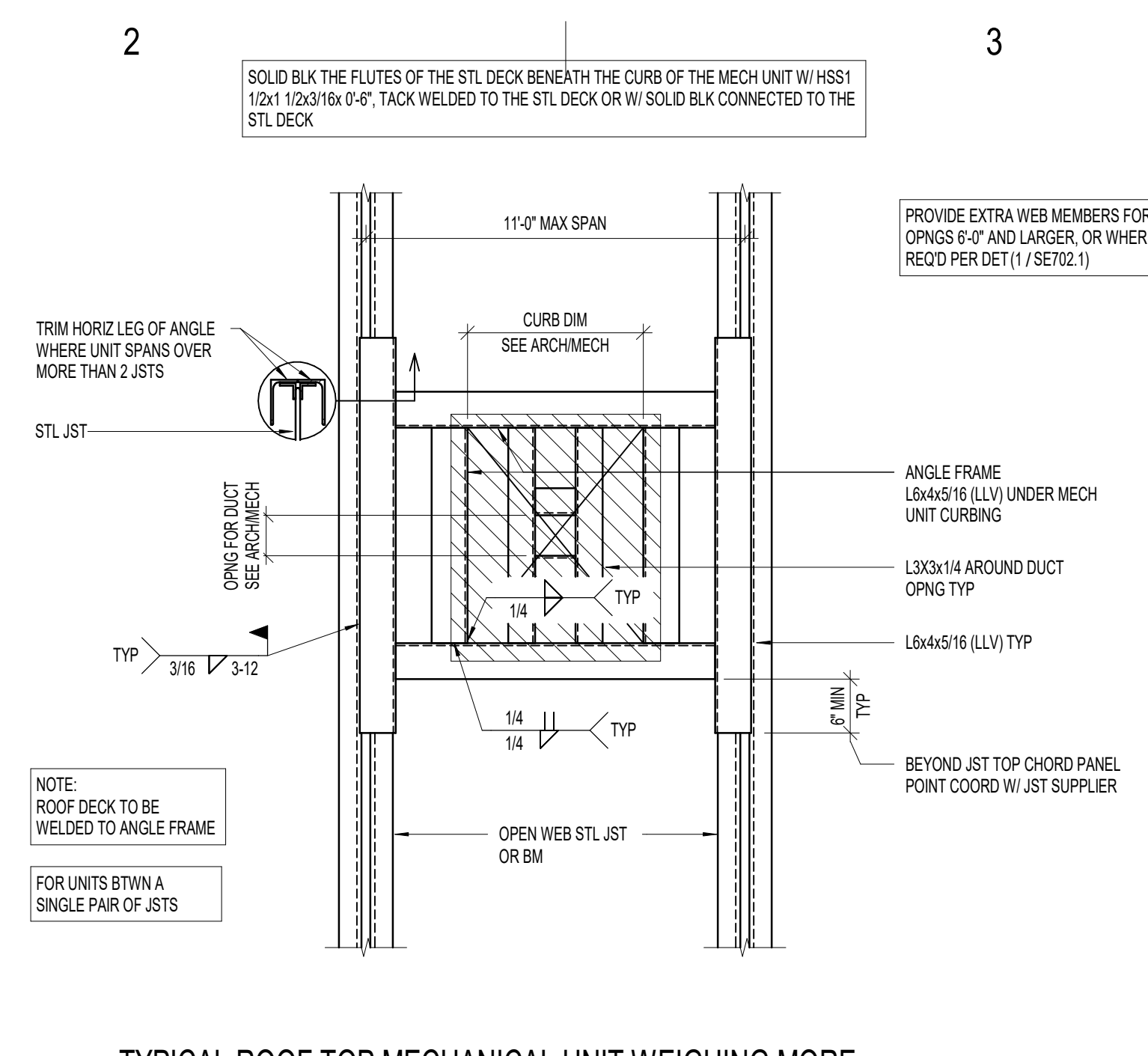
FOOTING AND FOUNDATION DETAILS  
**SE501.1**  
 (801) 355-5915

8/20/2024 4:15:20 PM

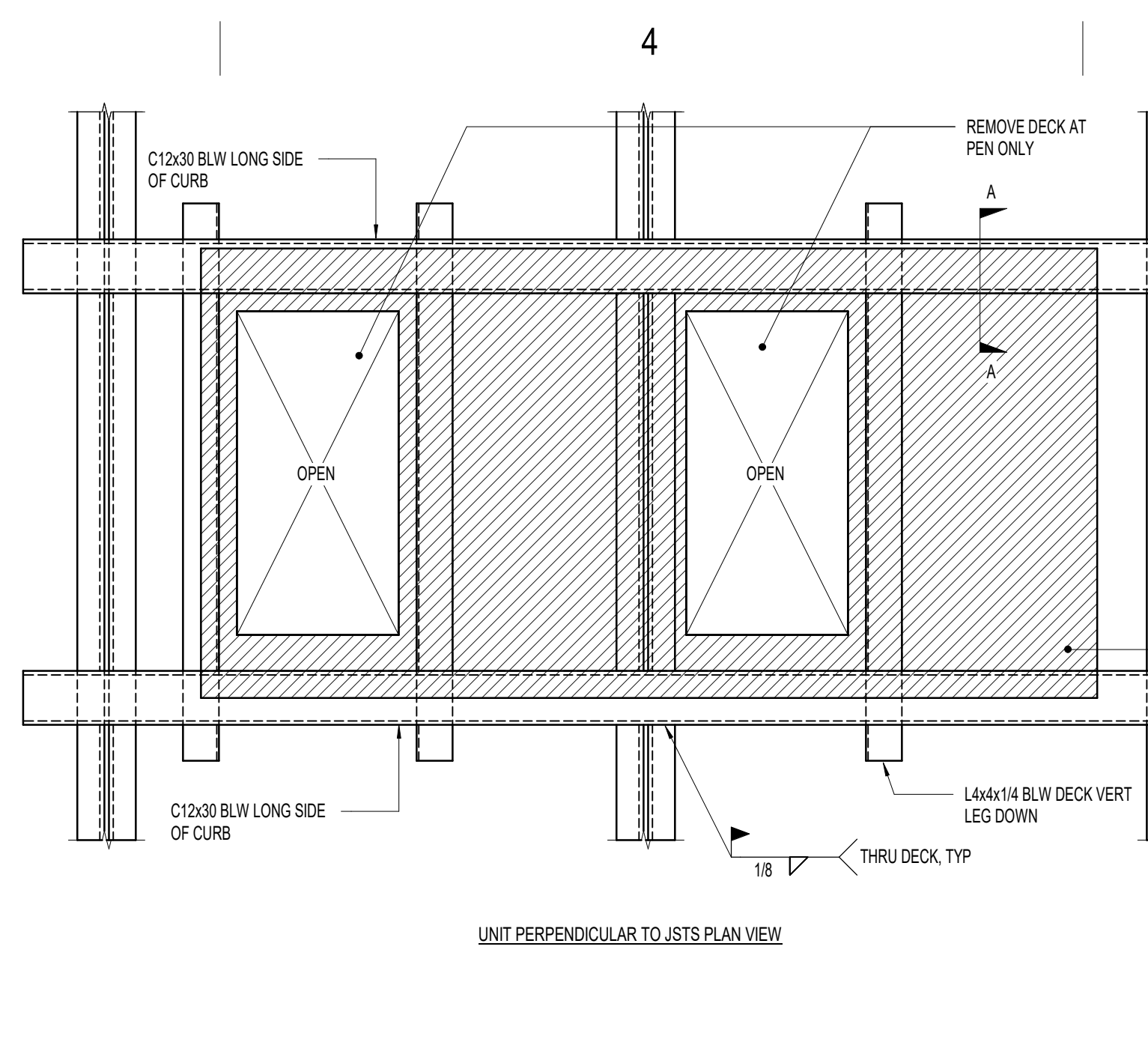




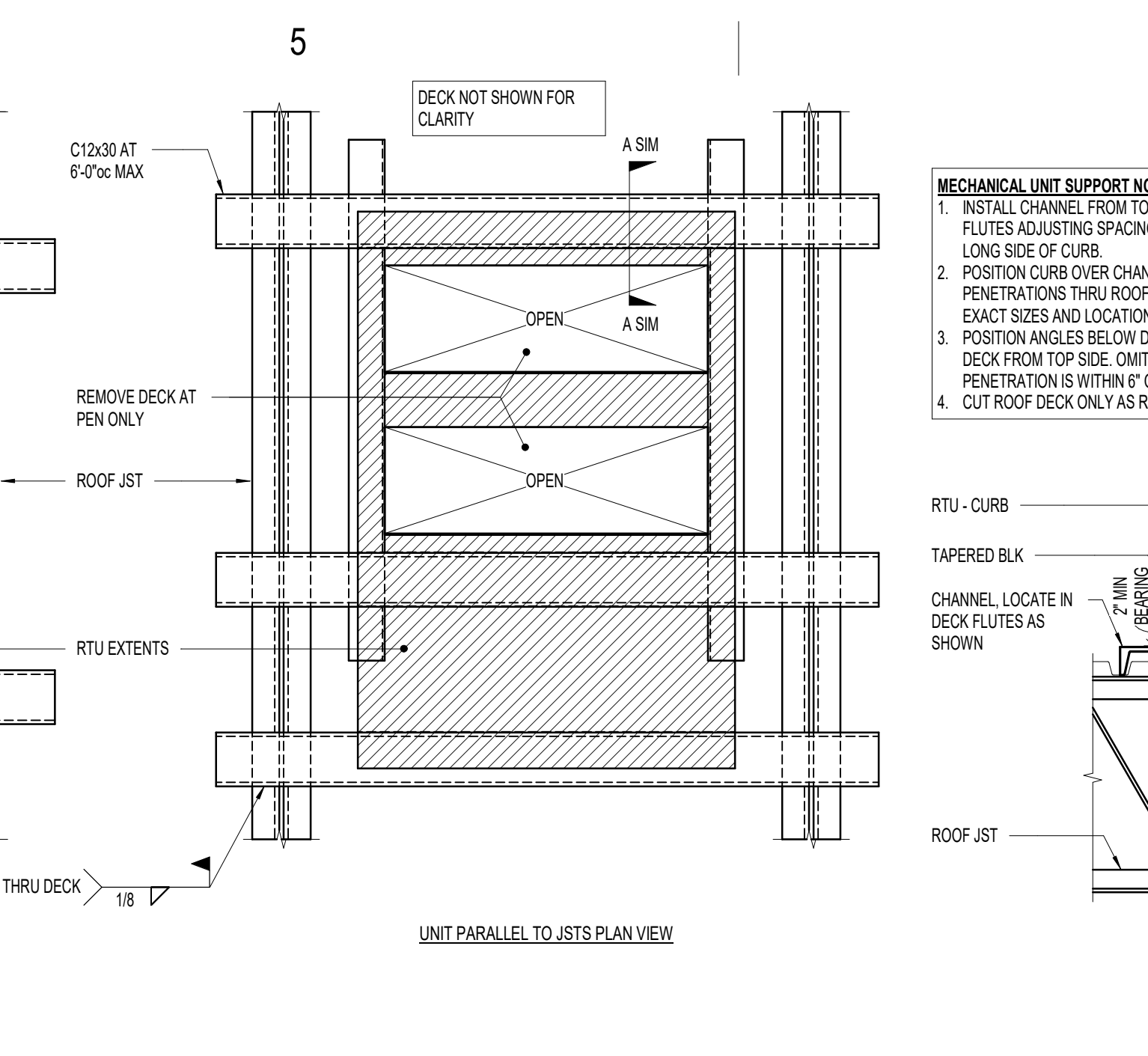
**1** TYPICAL ROOF OPENING OR MECHANICAL UNIT WEIGHING LESS THAN 700#  
SE701.1 NO SCALE  
1/26/24



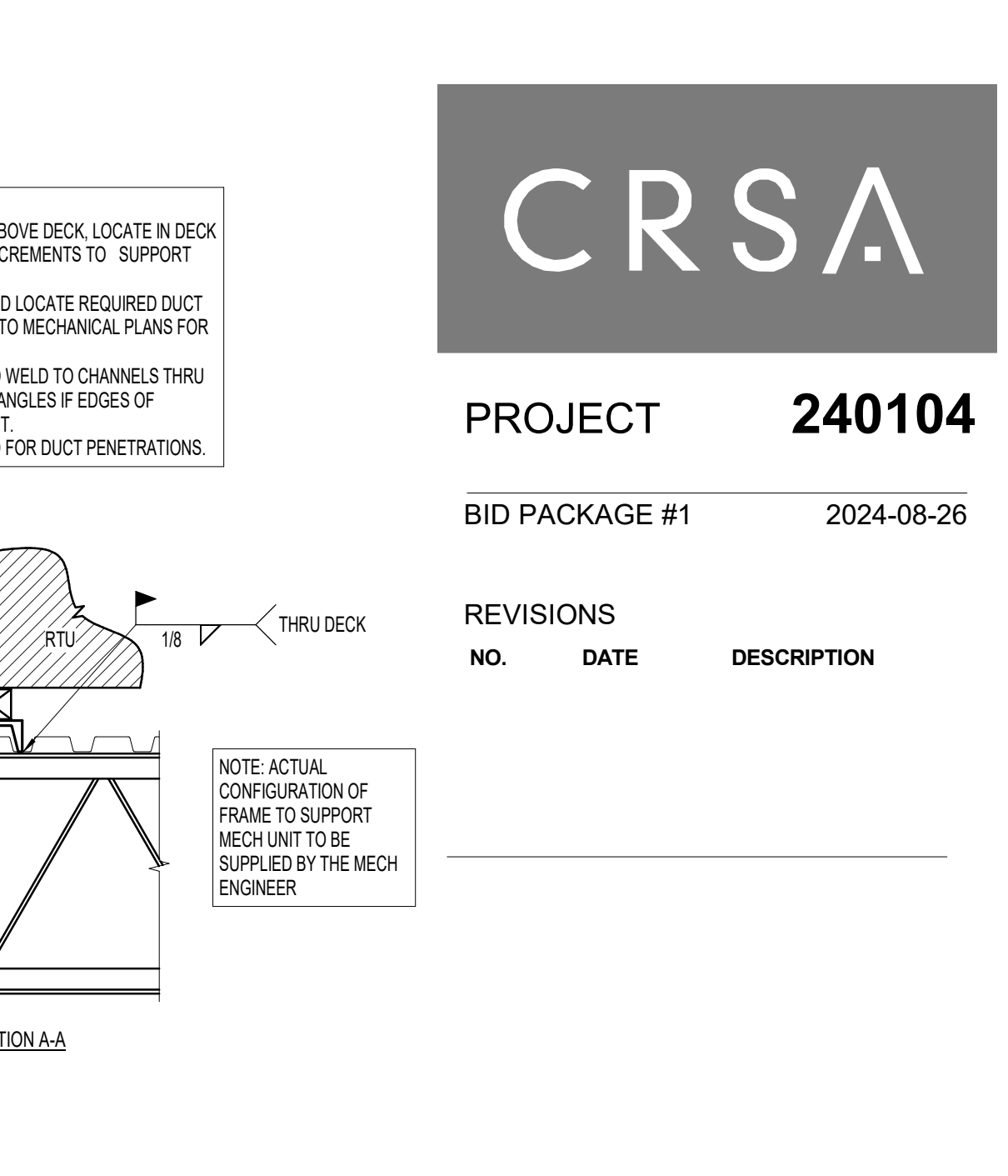
**2** TYPICAL ROOF TOP MECHANICAL UNIT WEIGHING MORE THAN 700# BUT LESS THAN 5000#  
SE701.1 NO SCALE  
1/26/24



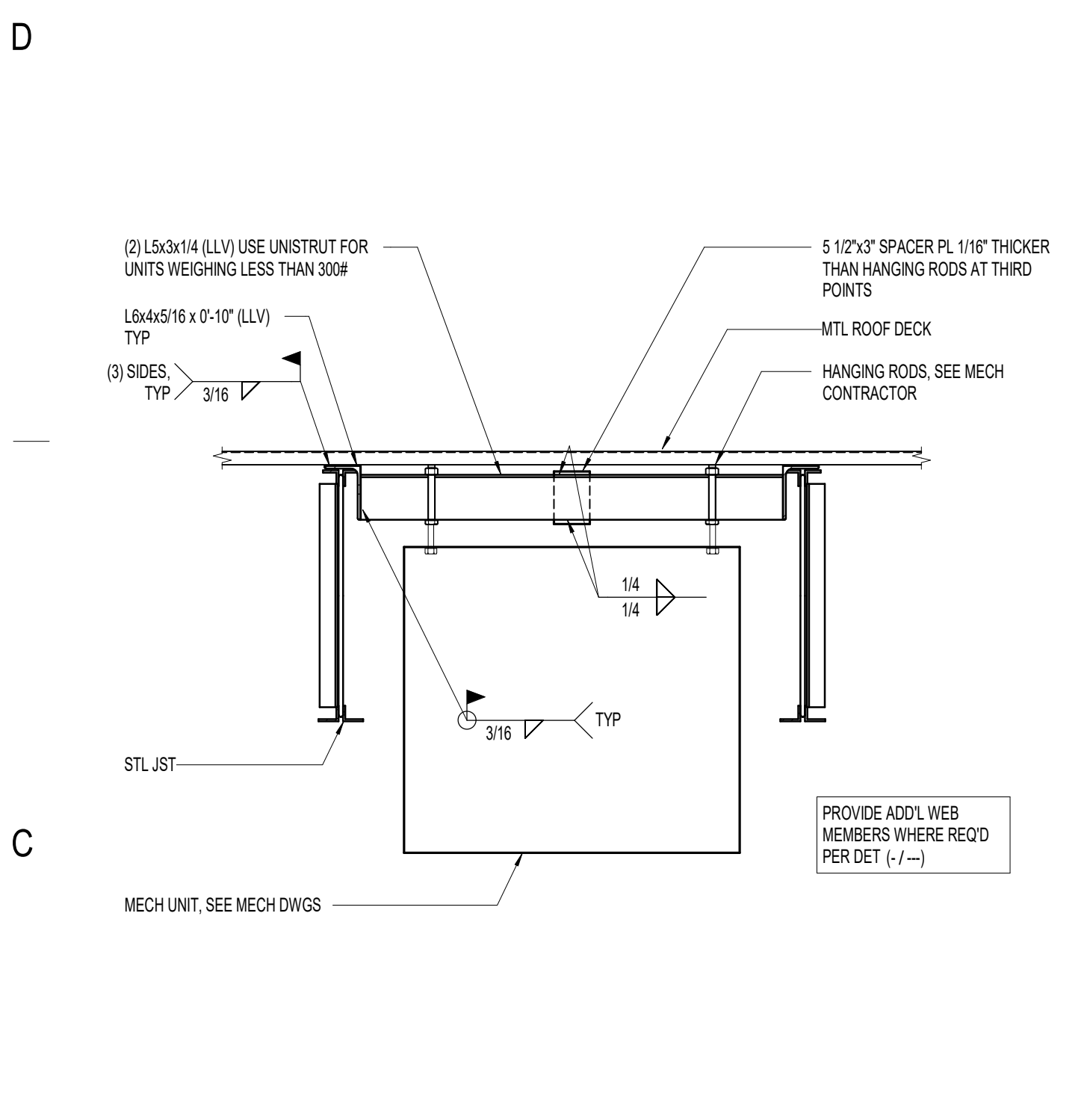
**3** TYPICAL ROOF OPENING OR MECHANICAL UNITS (PLAN VIEW) MULTIPLE SPANS OR HEAVIER UNITS  
SE701.1 NO SCALE  
1/26/24



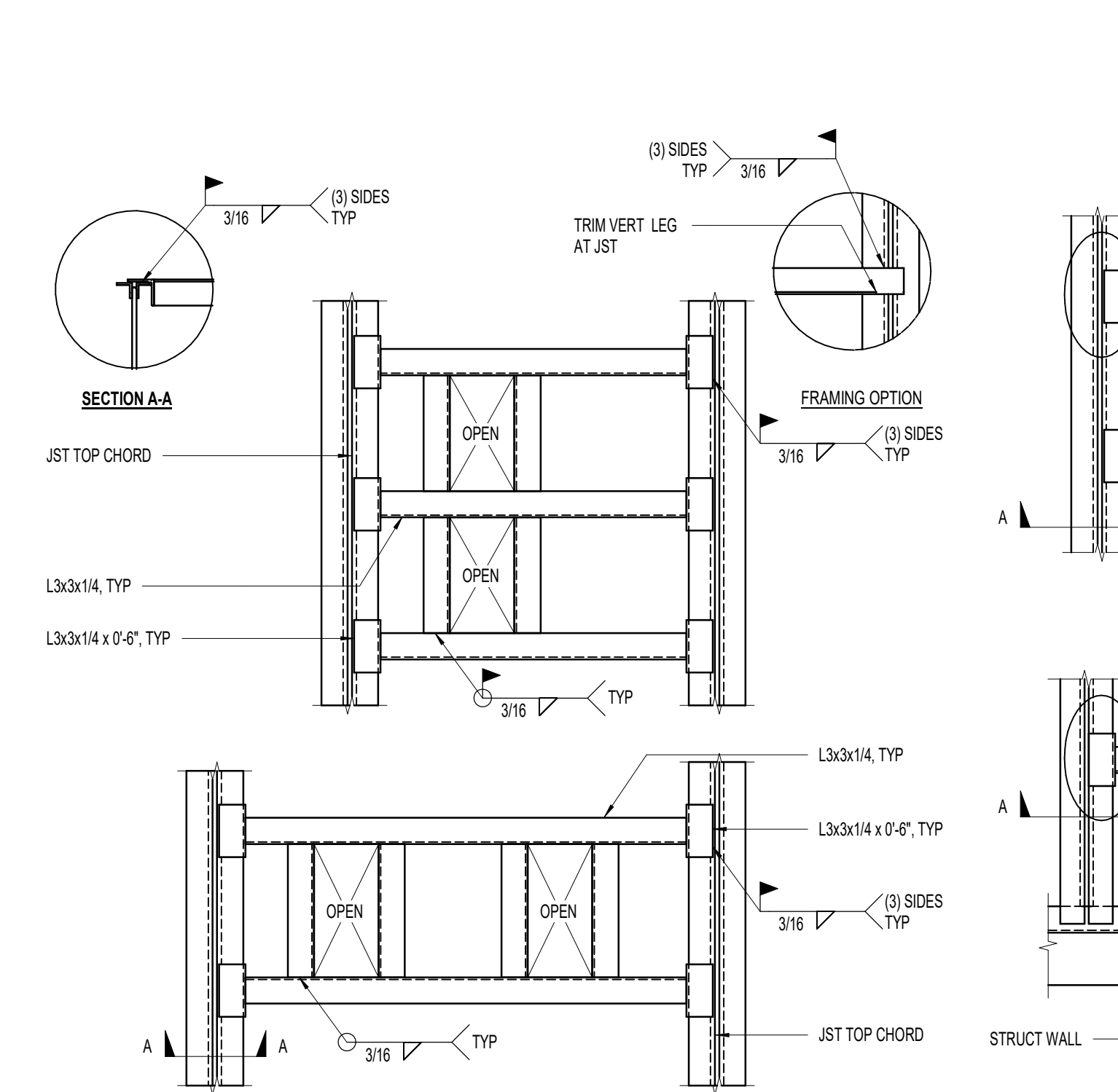
**4** TYPICAL PIPE SLEEVE HOLE DETAIL (12" OR LESS) THRU ROOF DECK  
SE701.1 NO SCALE  
1/26/24



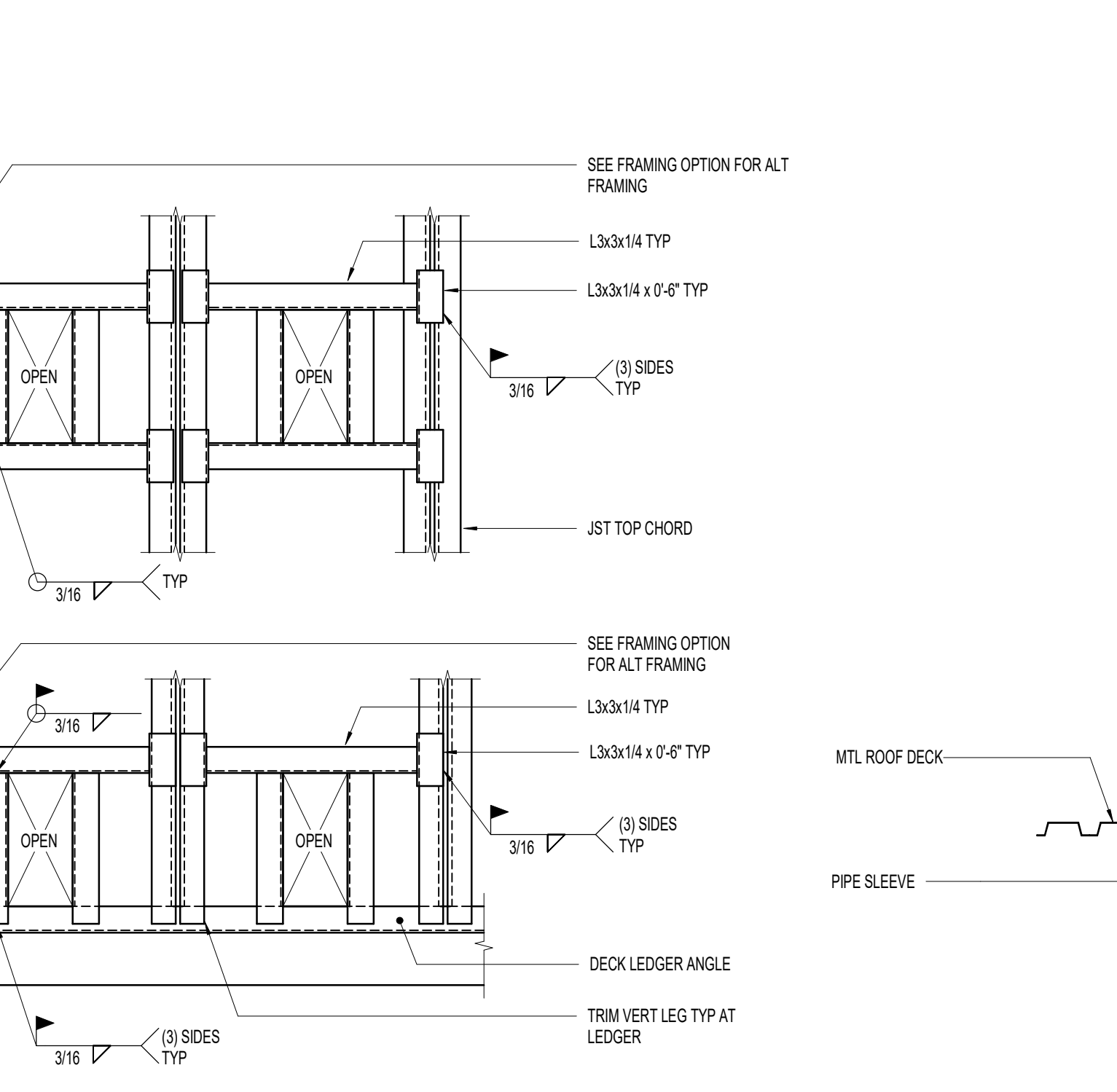
**5** SUSPENDED LOADS FROM METAL DECK  
SE701.1 NO SCALE  
1/26/24



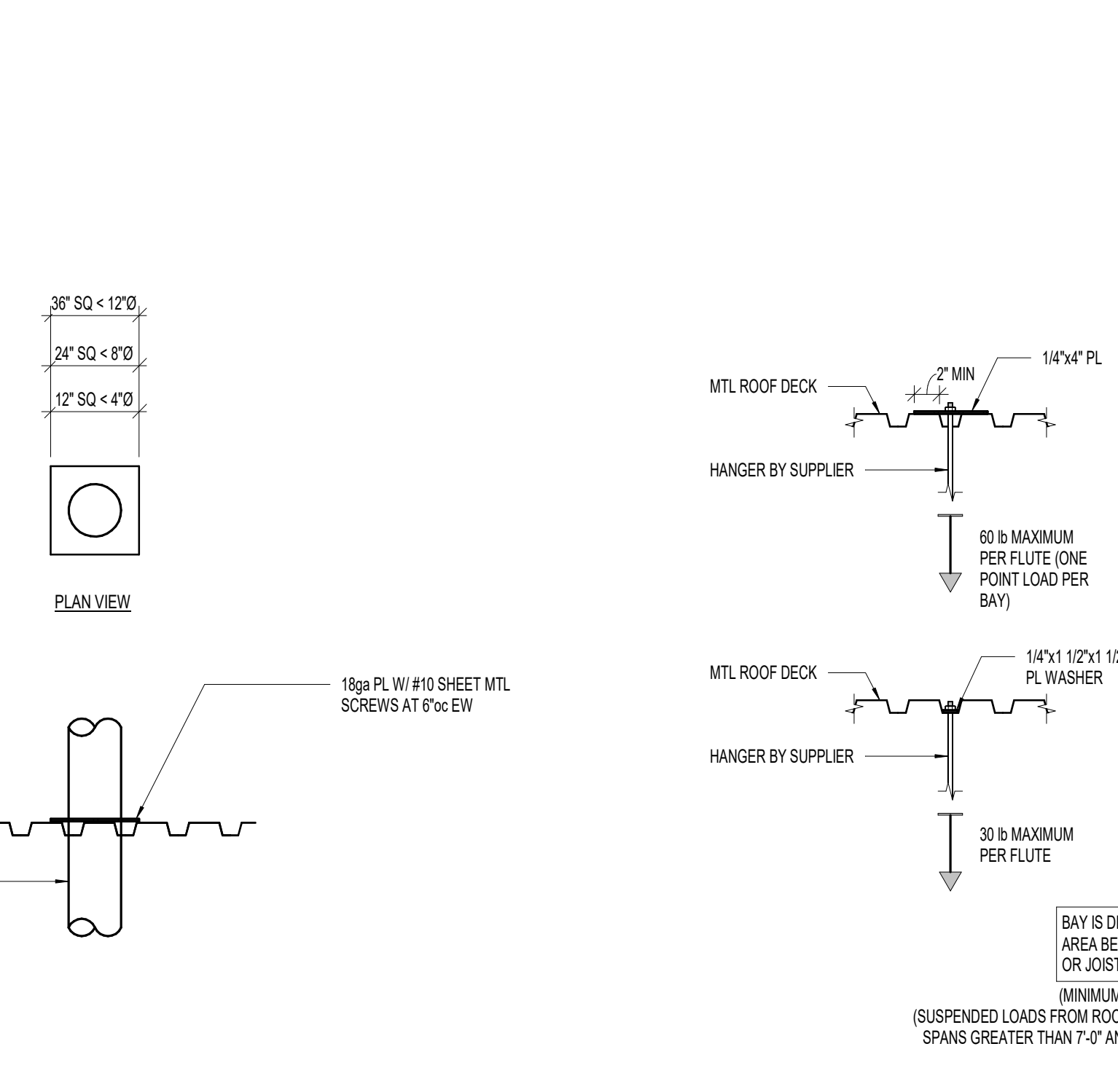
**6** HANGING MECHANICAL UNIT  
SE701.1 NO SCALE  
1/26/24



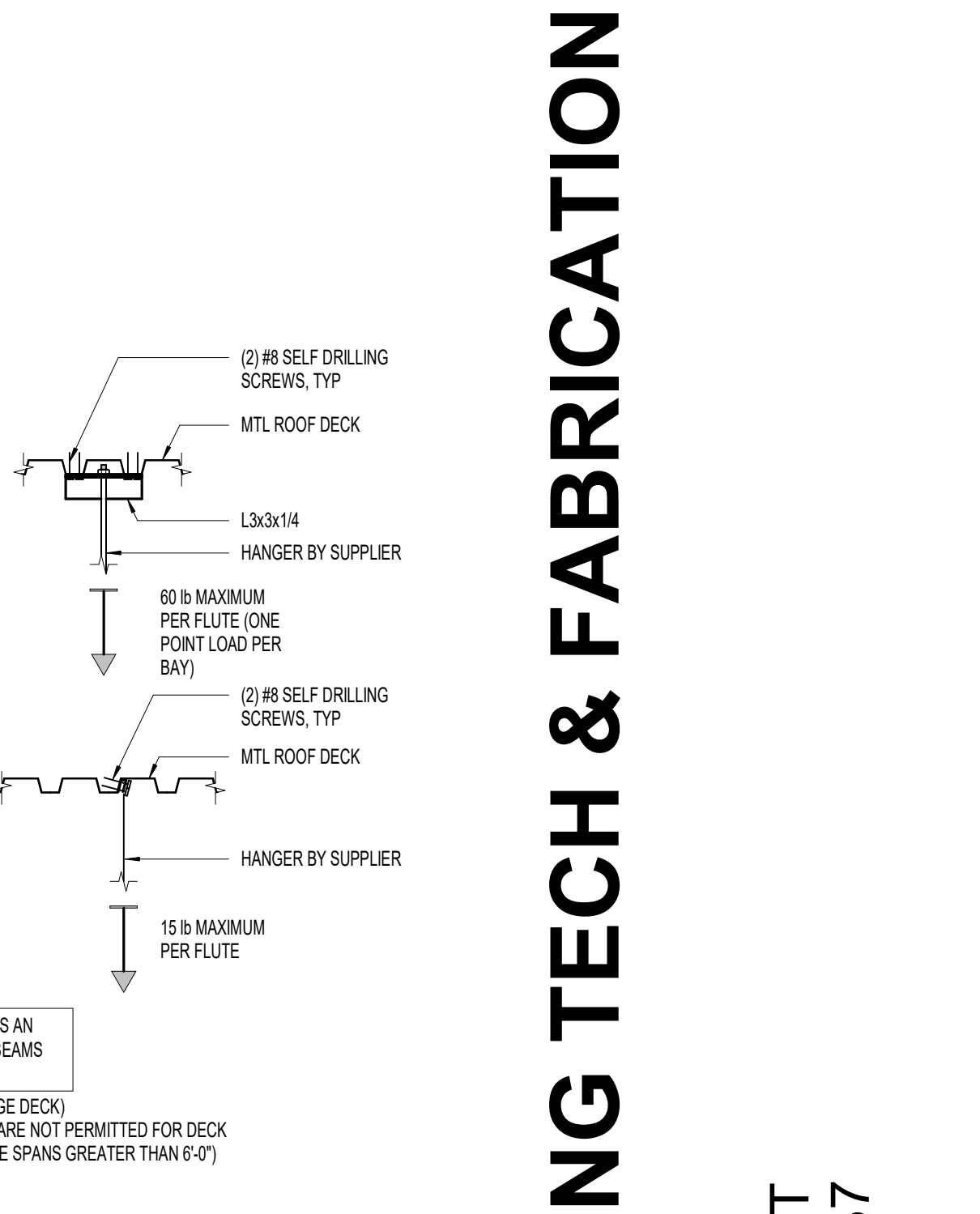
**7** TYPICAL ROOF DRAIN SUPPORT (PLAN VIEW)  
SE701.1 NO SCALE  
1/26/24



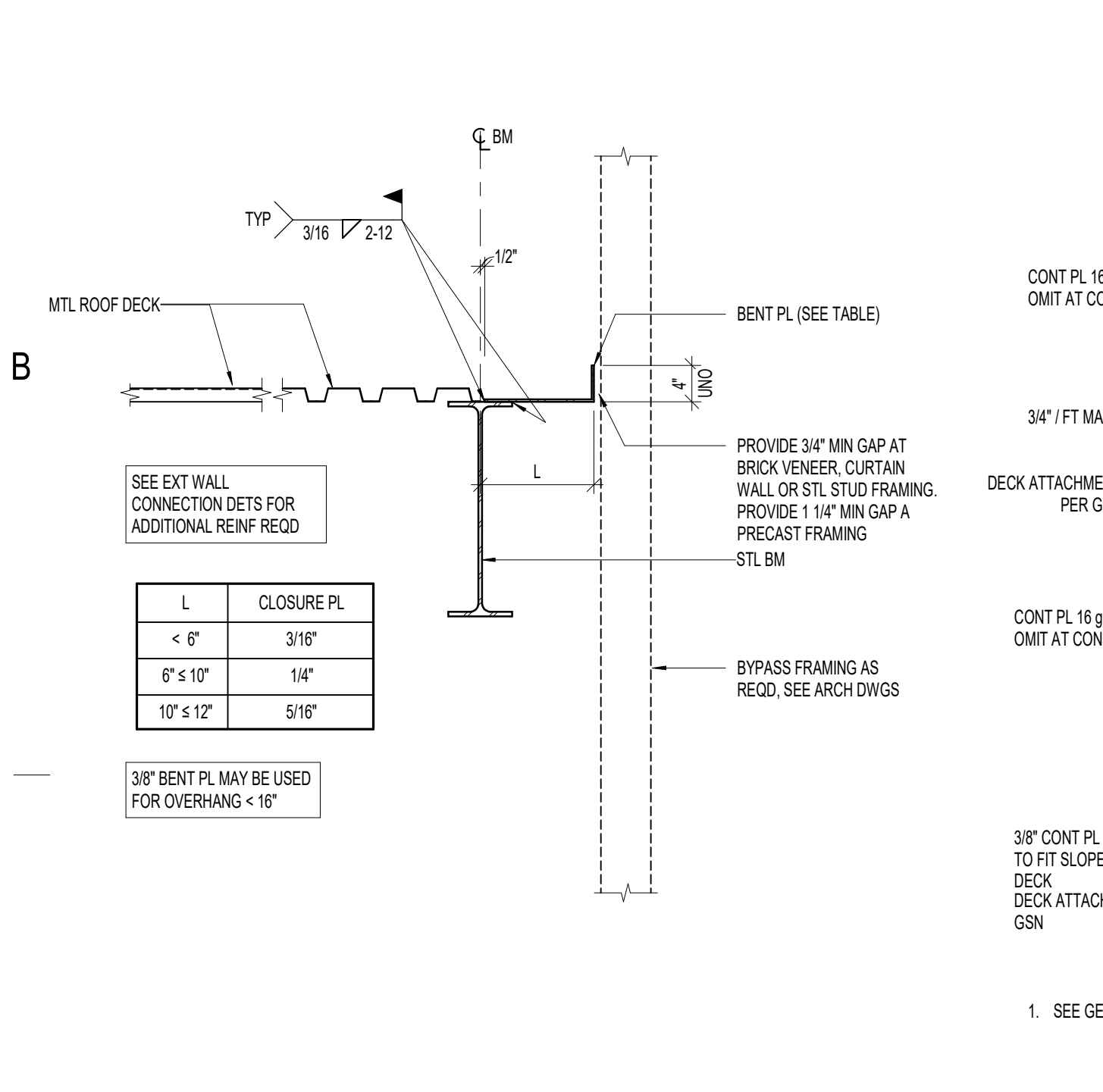
**8** TYPICAL PIPE SLEEVE HOLE DETAIL (12" OR LESS) THRU ROOF DECK  
SE701.1 NO SCALE  
1/26/24



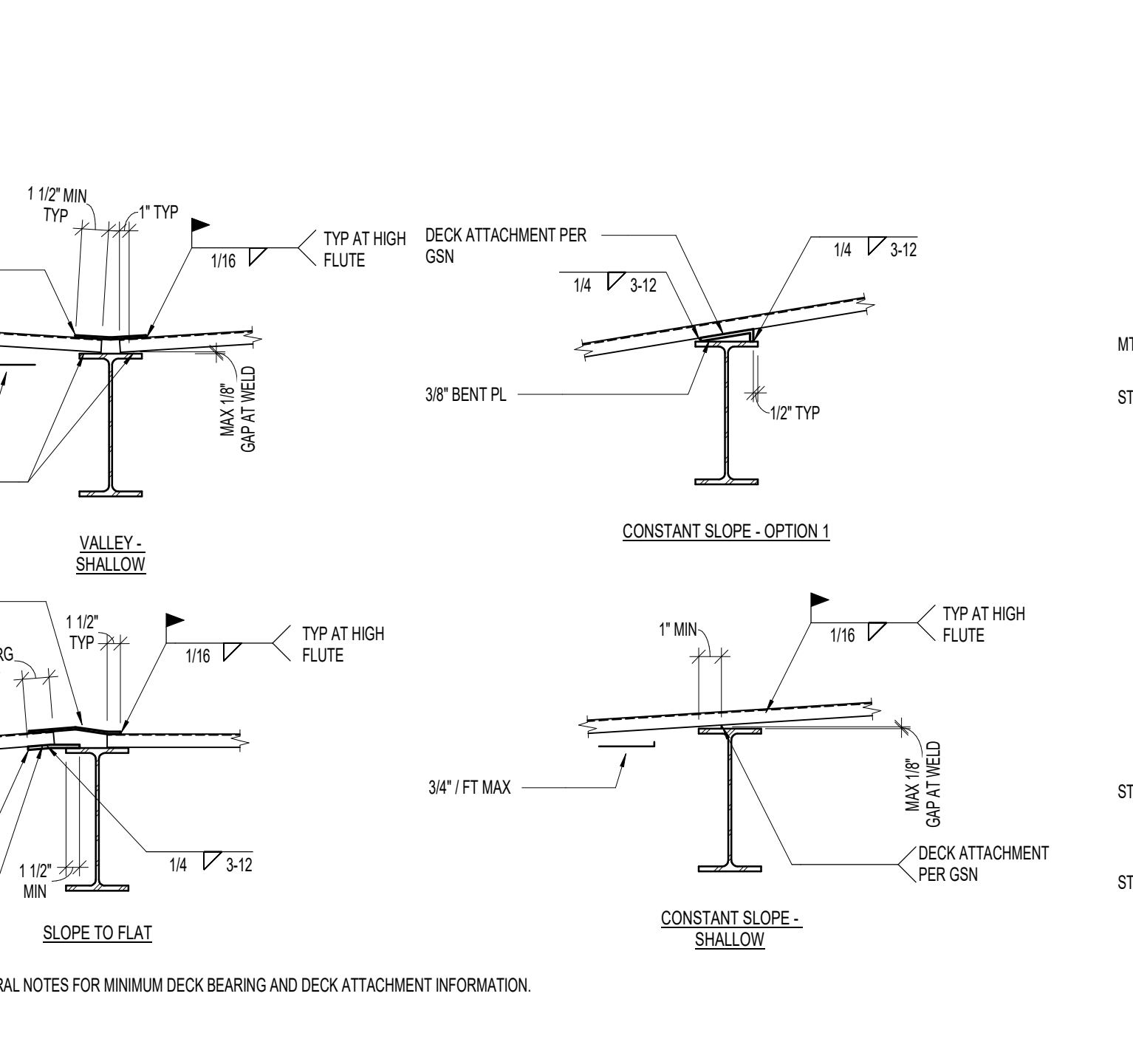
**9** SUSPENDED LOADS FROM METAL DECK  
SE701.1 NO SCALE  
1/26/24



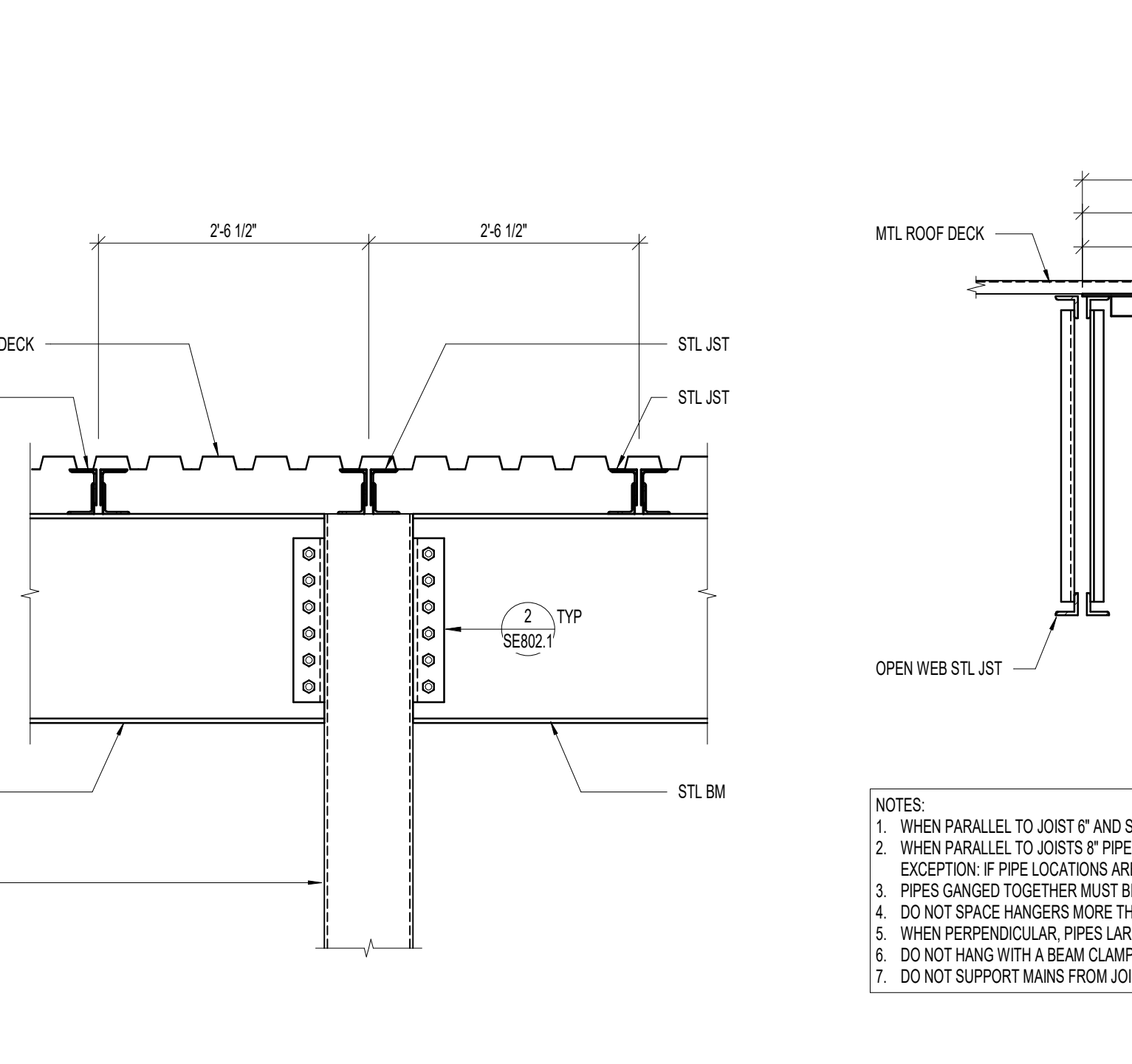
**10** WIDE FLANGE BEAM TO STEEL COLUMN  
SE701.1 NO SCALE  
1/26/24



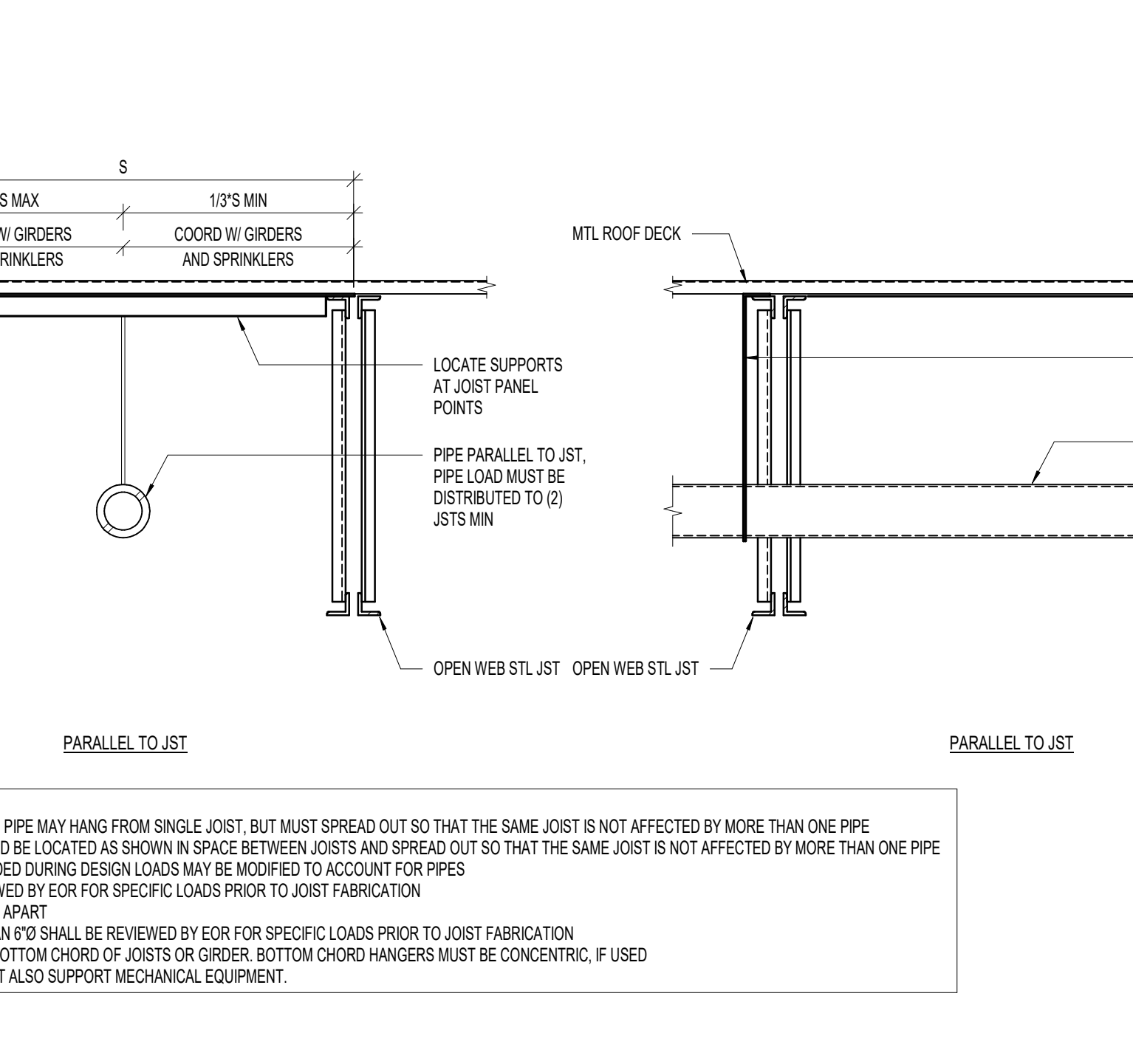
**11** FIRE PROTECTION PIPE HANGER DETAIL  
SE701.1 NO SCALE  
1/26/24



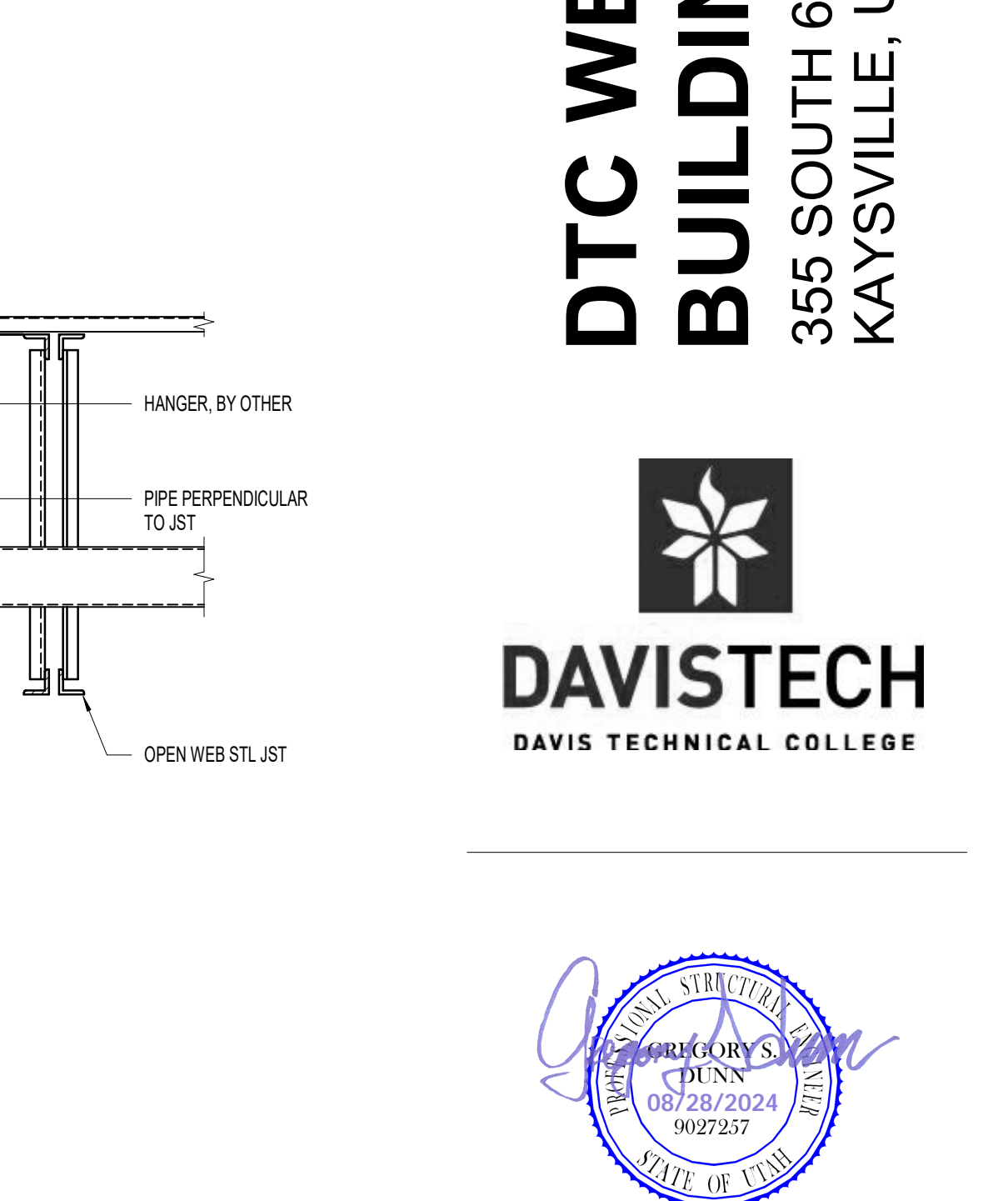
**12** TYPICAL CLOSURE PLATE (OVERHANG 'L' ≤ 12")  
SE701.1 NO SCALE  
1/26/24



**13** SUPPORT OF SLOPED STEEL DECK AT BEAMS OR JOISTS  
SE701.1 NO SCALE  
1/26/24

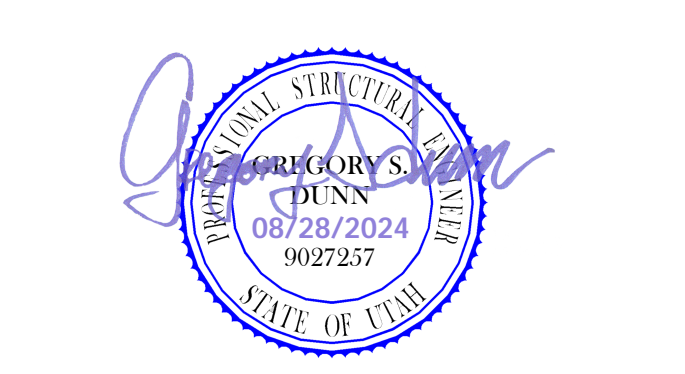


**14** TYPICAL CLOSURE PLATE (OVERHANG 'L' ≤ 12")  
SE701.1 NO SCALE  
1/26/24



**15** SUPPORT OF SLOPED STEEL DECK AT BEAMS OR JOISTS  
SE701.1 NO SCALE  
1/26/24

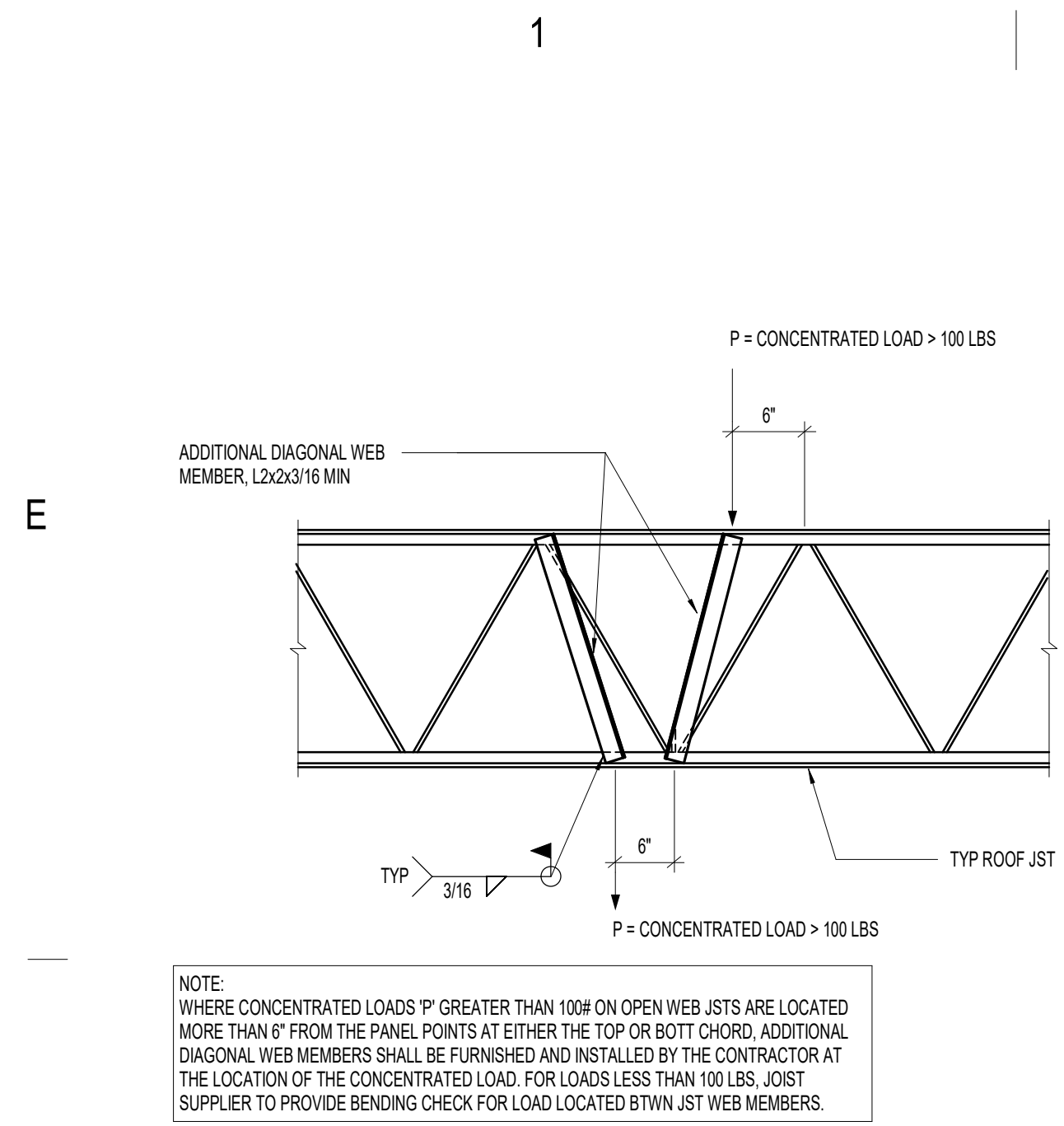
**DTC WELDING TECH & FABRICATION**  
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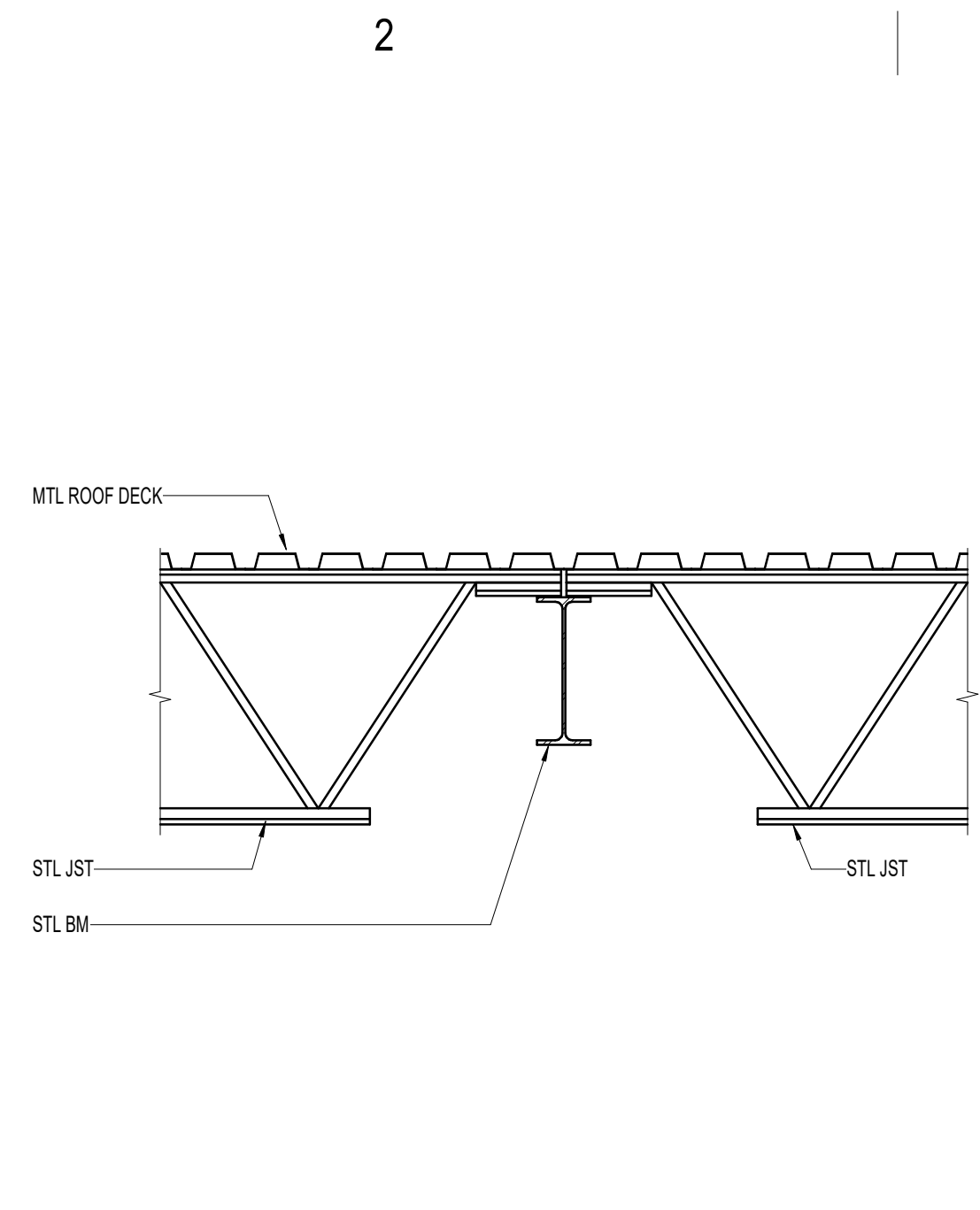
2024-08-26  
BID PACKAGE #1

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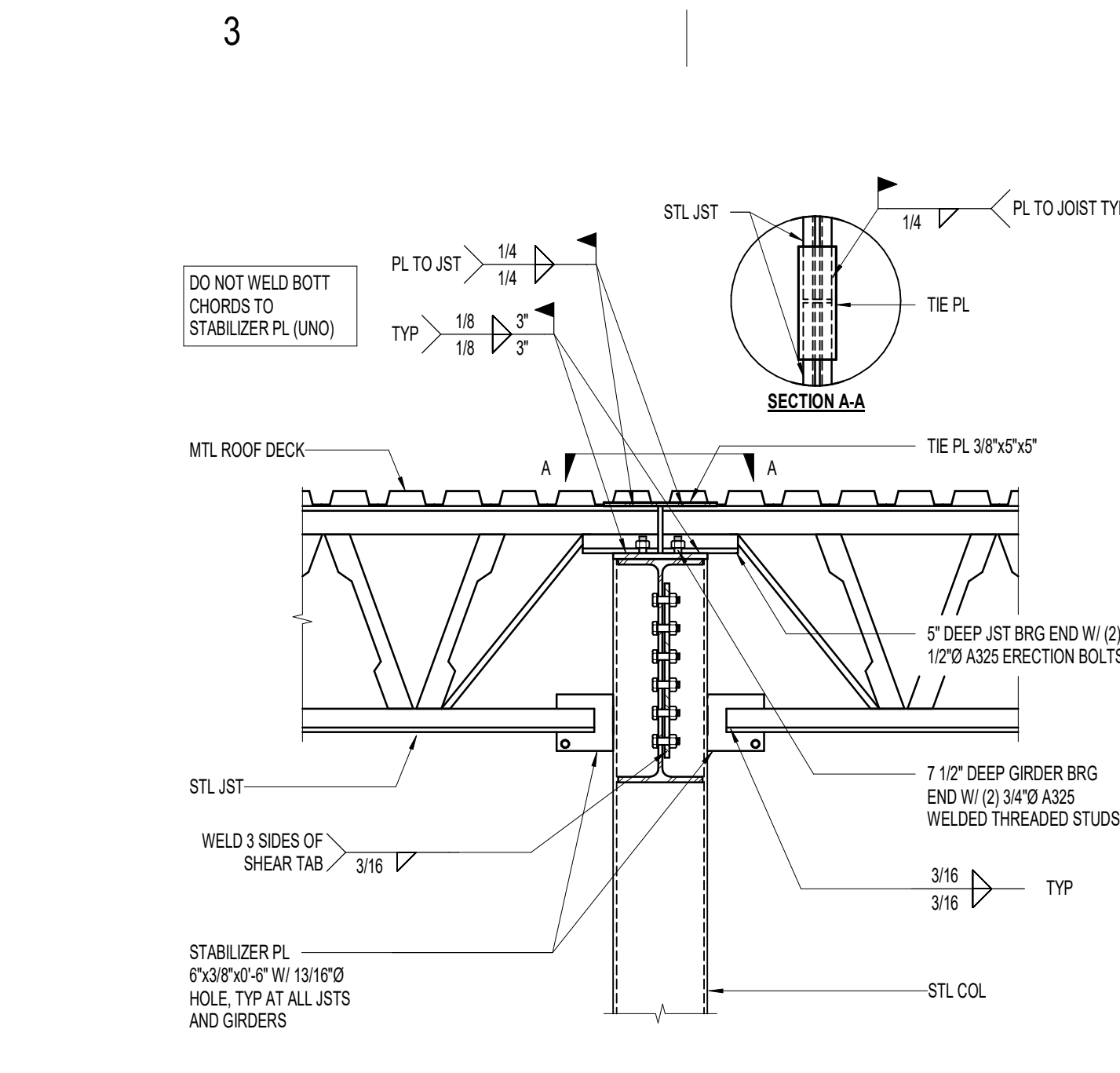
ROOF FRAMING  
DETAILS  
**SE701.1**



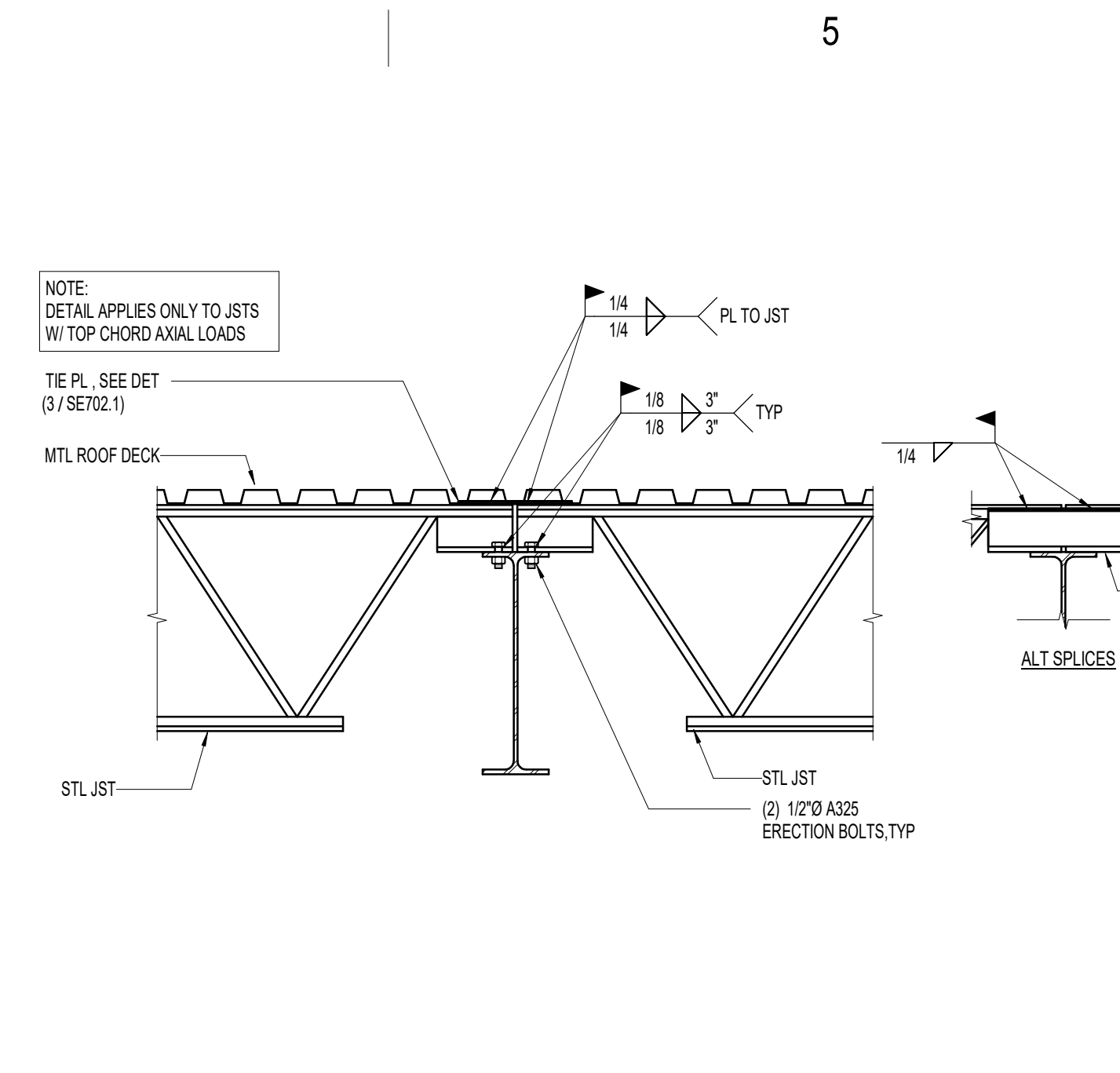
**1** TYPICAL JOIST REINFORCING AT CONCENTRATED LOAD  
SE702.1 NO SCALE



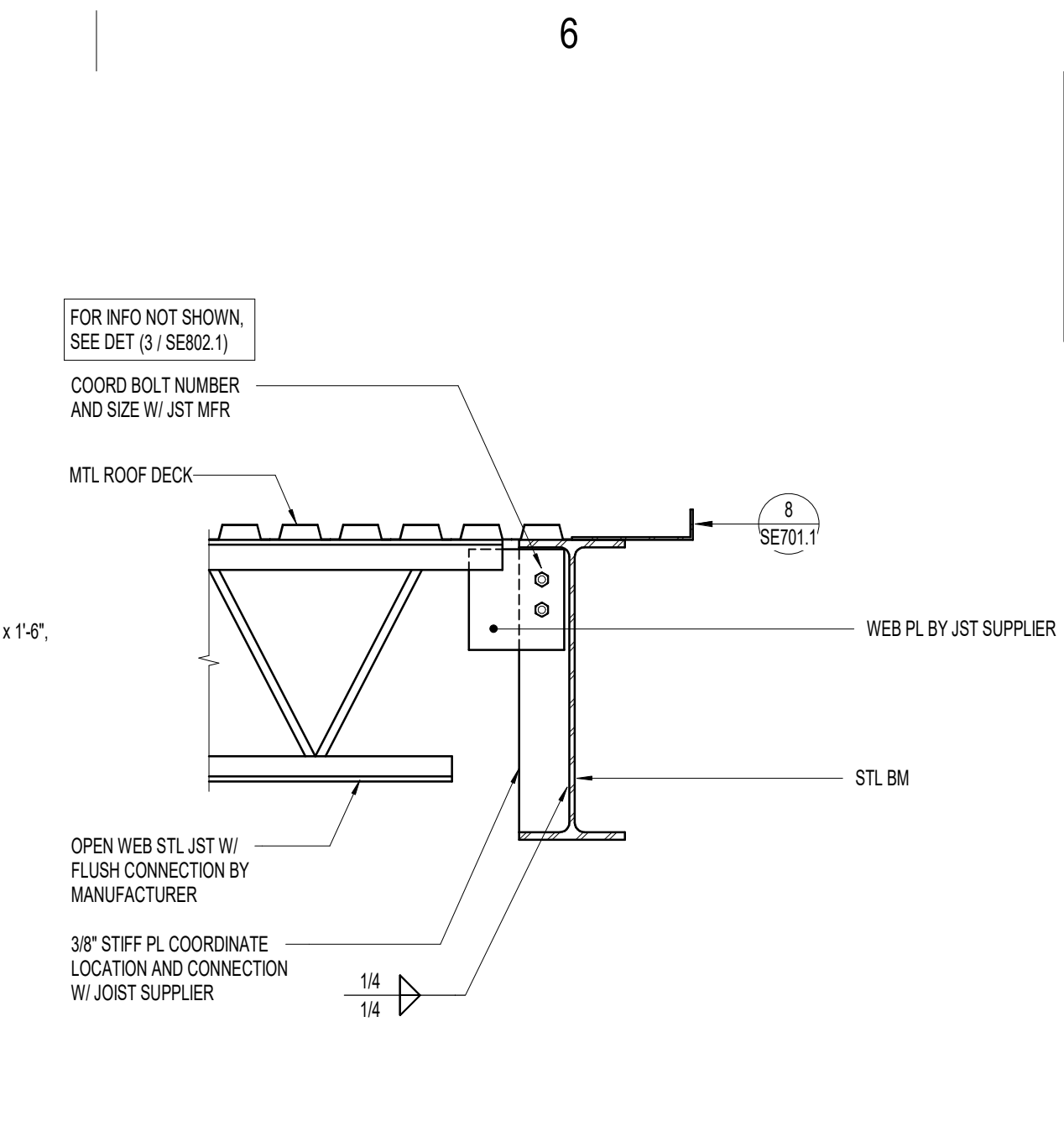
**2** TYPICAL JOISTS BEARING ON STEEL BEAM  
SE702.1 NO SCALE



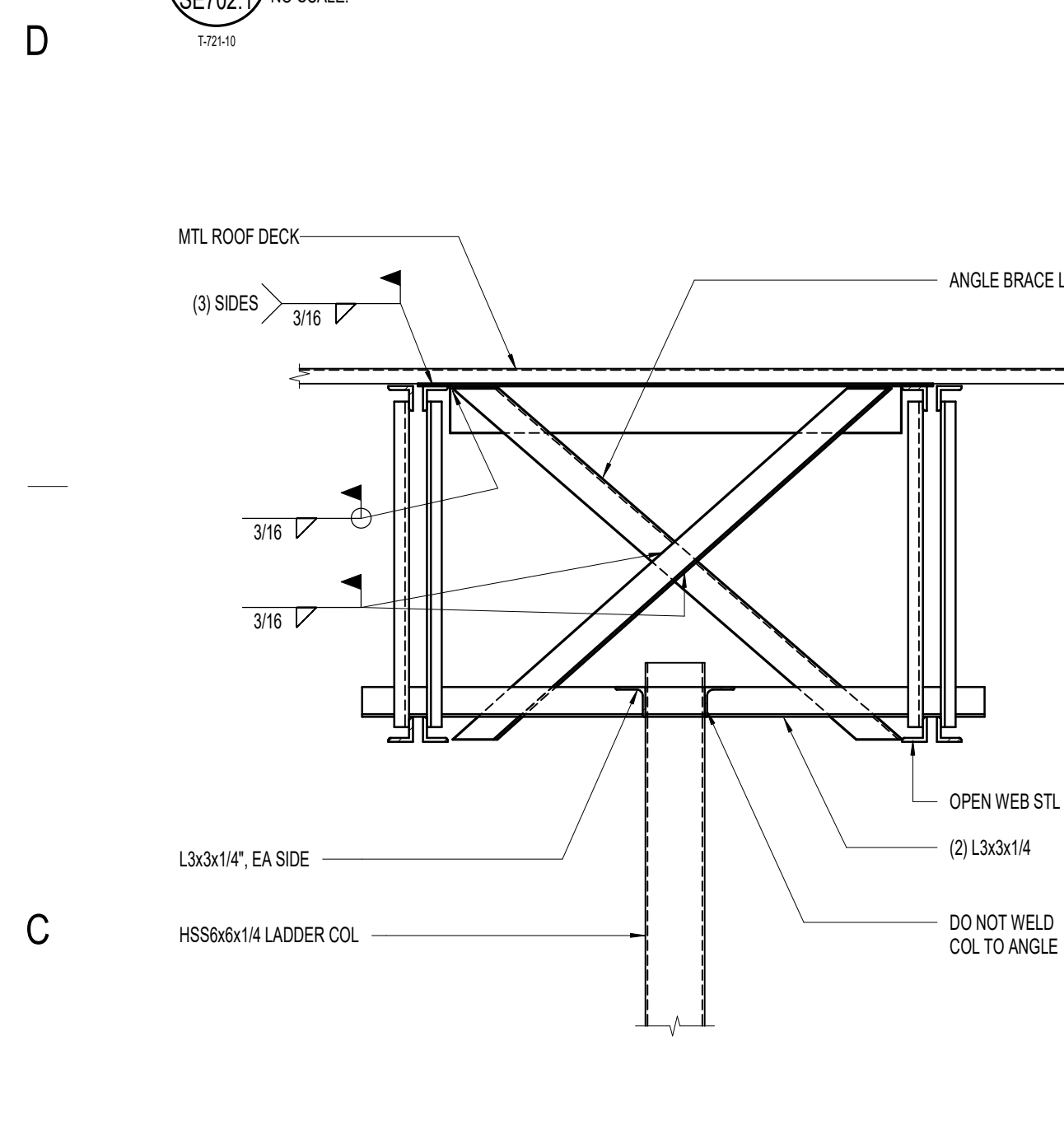
**3** TYPICAL JOISTS AND GRIDER BEARING ON STEEL COLUMN WITH TIE PLATE  
SE702.1 NO SCALE



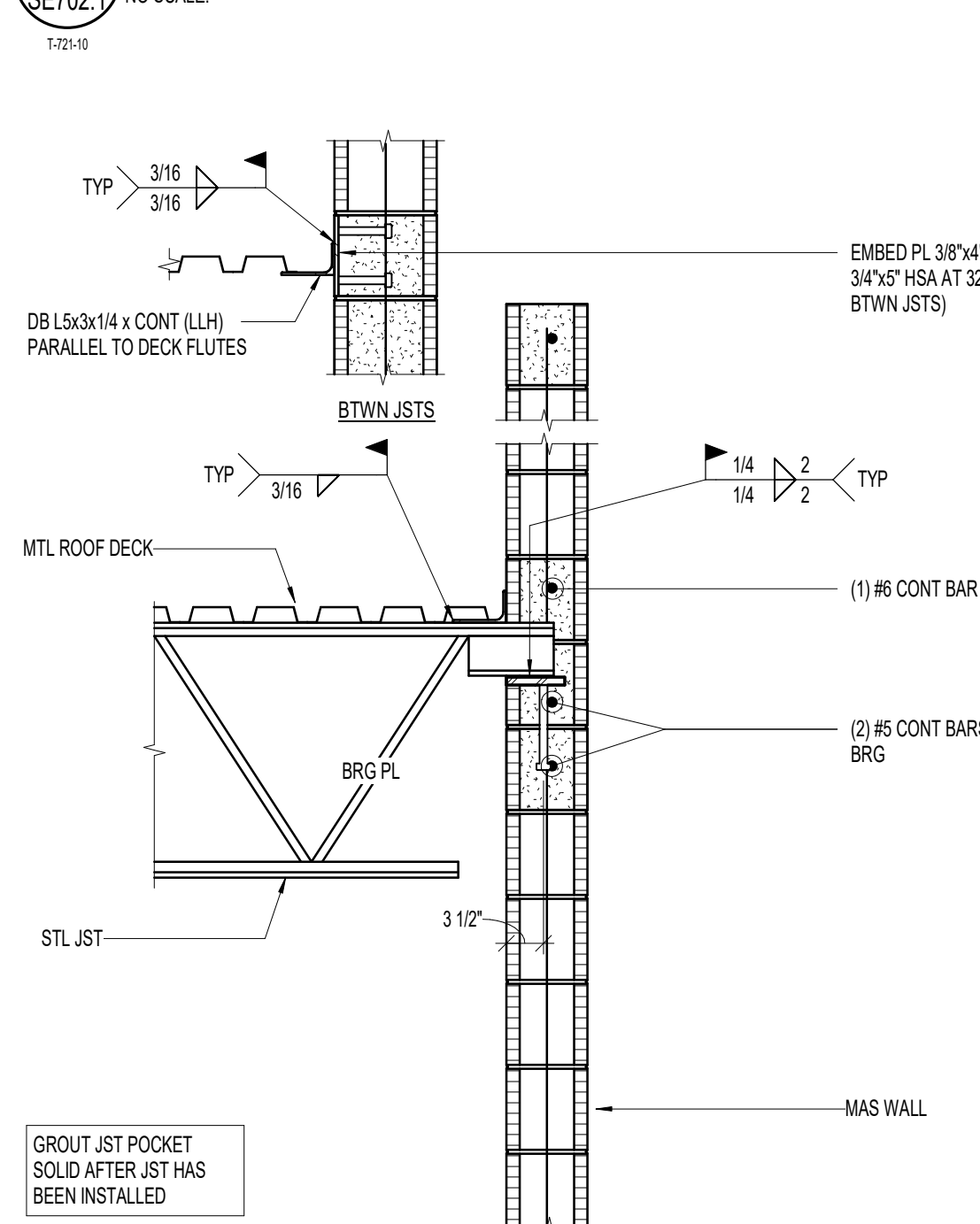
**4** TYPICAL JOIST CHORD/TIE/DRAE STRUT  
SE702.1 NO SCALE



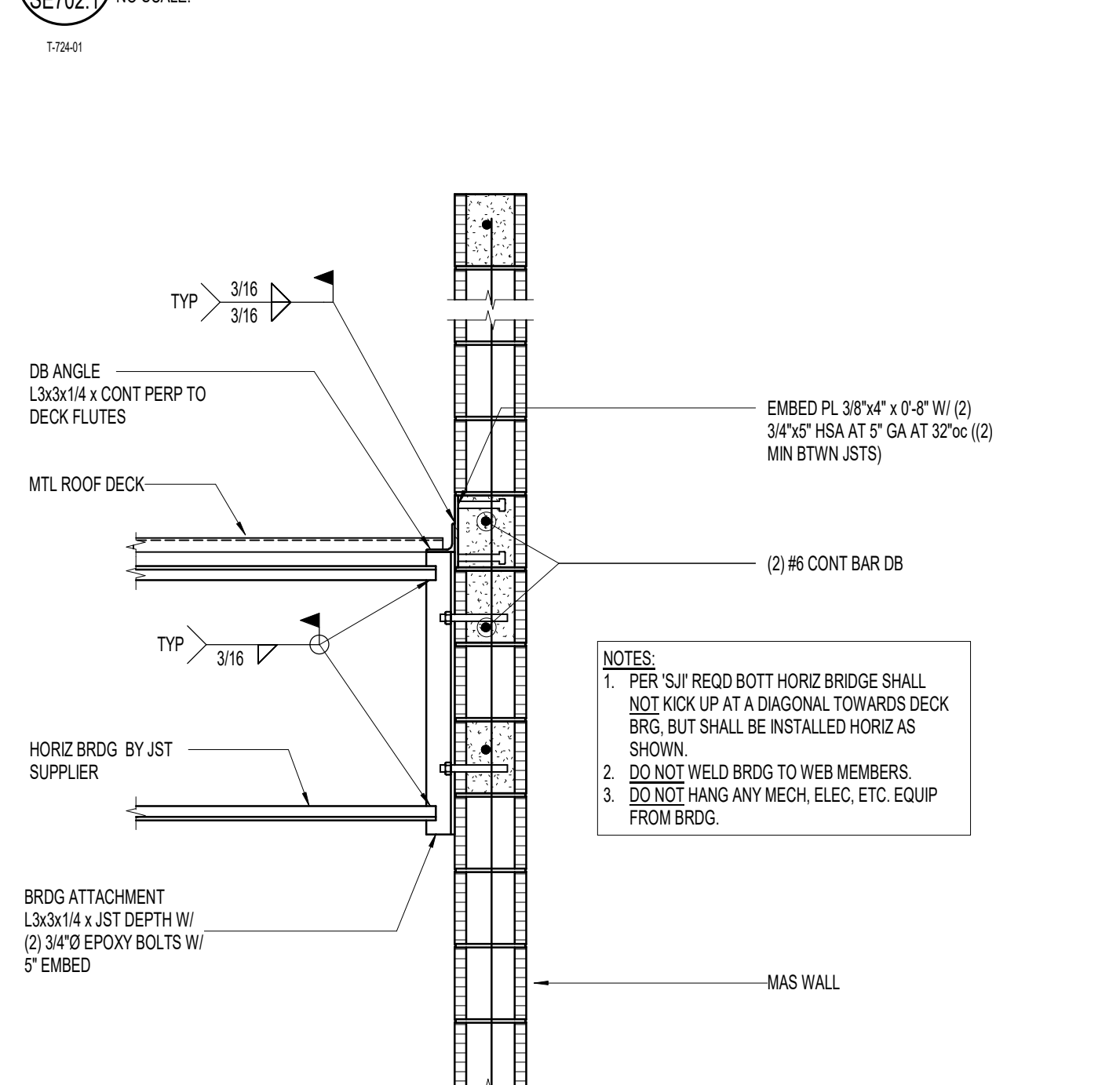
**5** TYPICAL FLUSH FRAMED JOIST CONNECTION  
SE702.1 NO SCALE



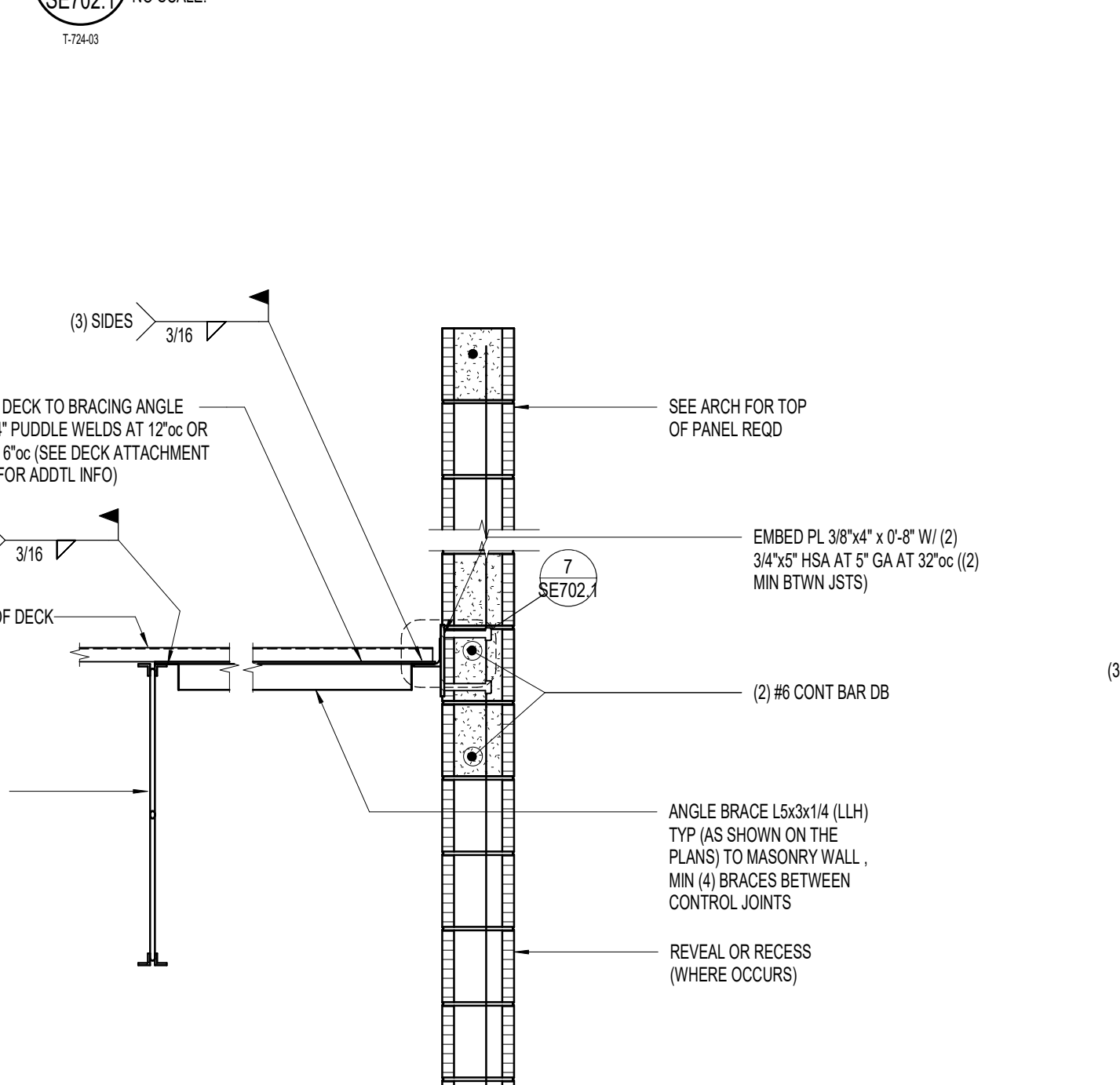
**6** VERTICAL SLIP CONNECTION AT TOP OF LADDER COLUMN  
SE702.1 NO SCALE



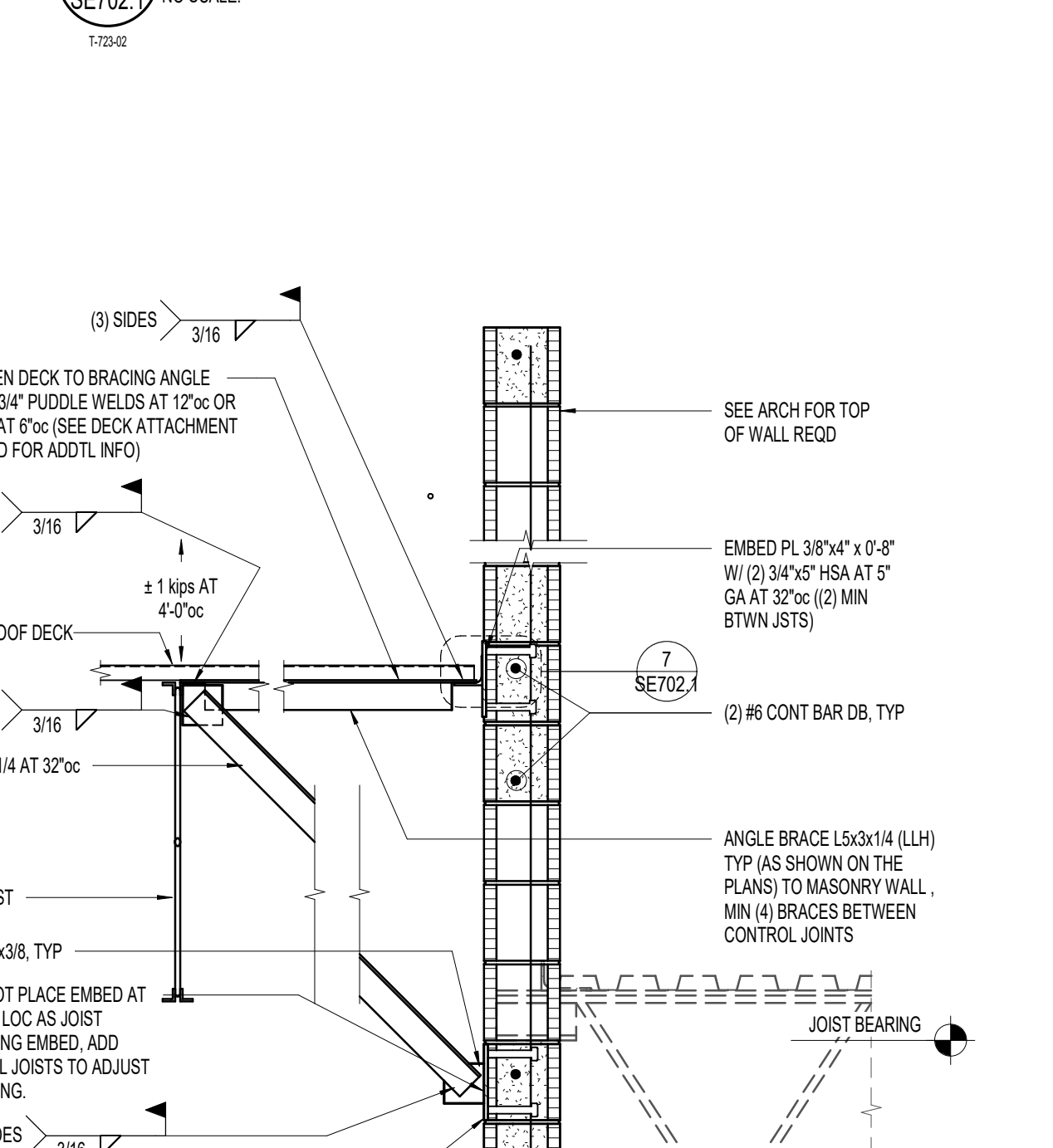
**7** TYPICAL JOIST / DECK BEARING DETAIL  
SE702.1 NO SCALE



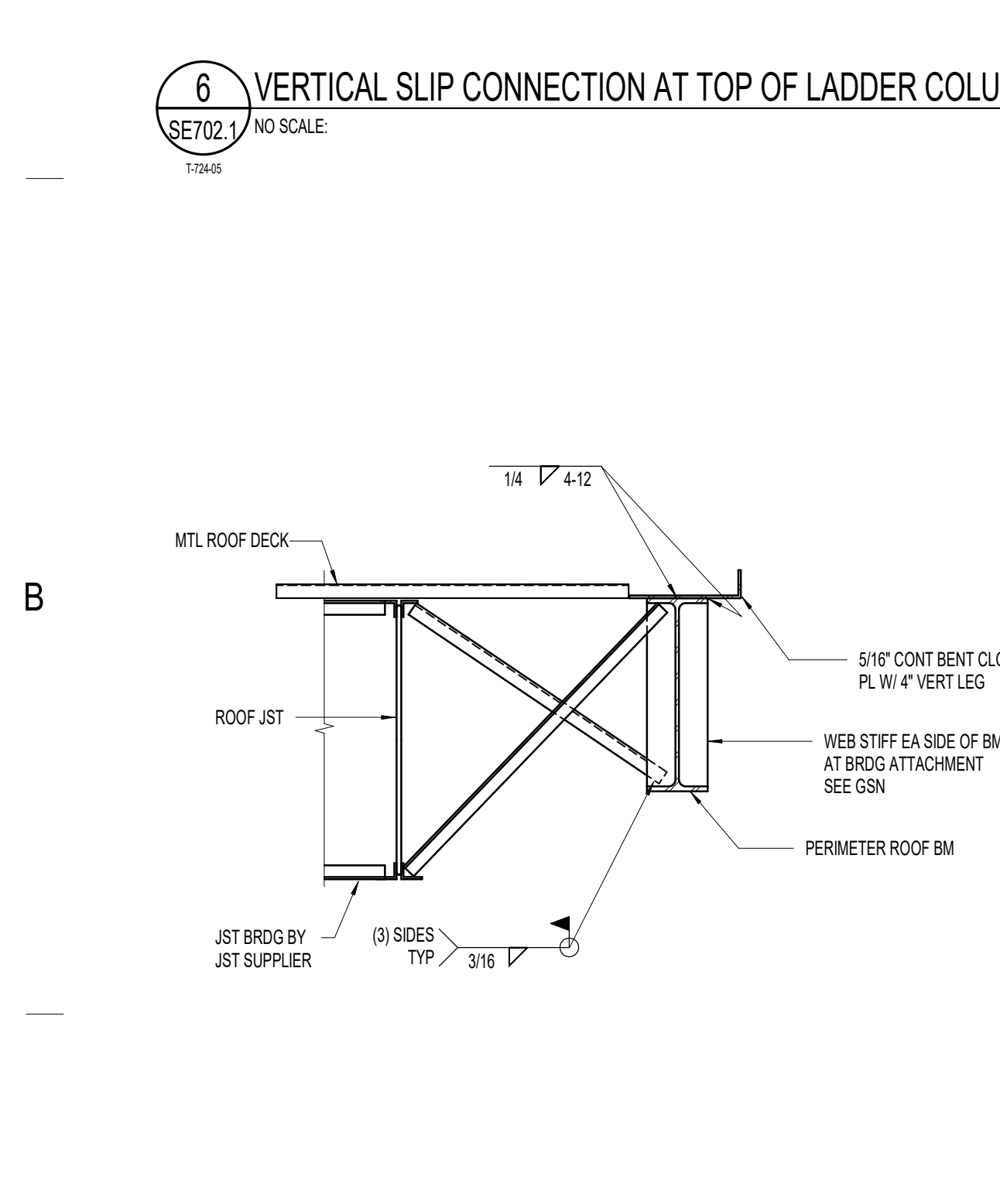
**8** TYPICAL DECK BEARING WITH BRIDGING DETAIL  
SE702.1 NO SCALE



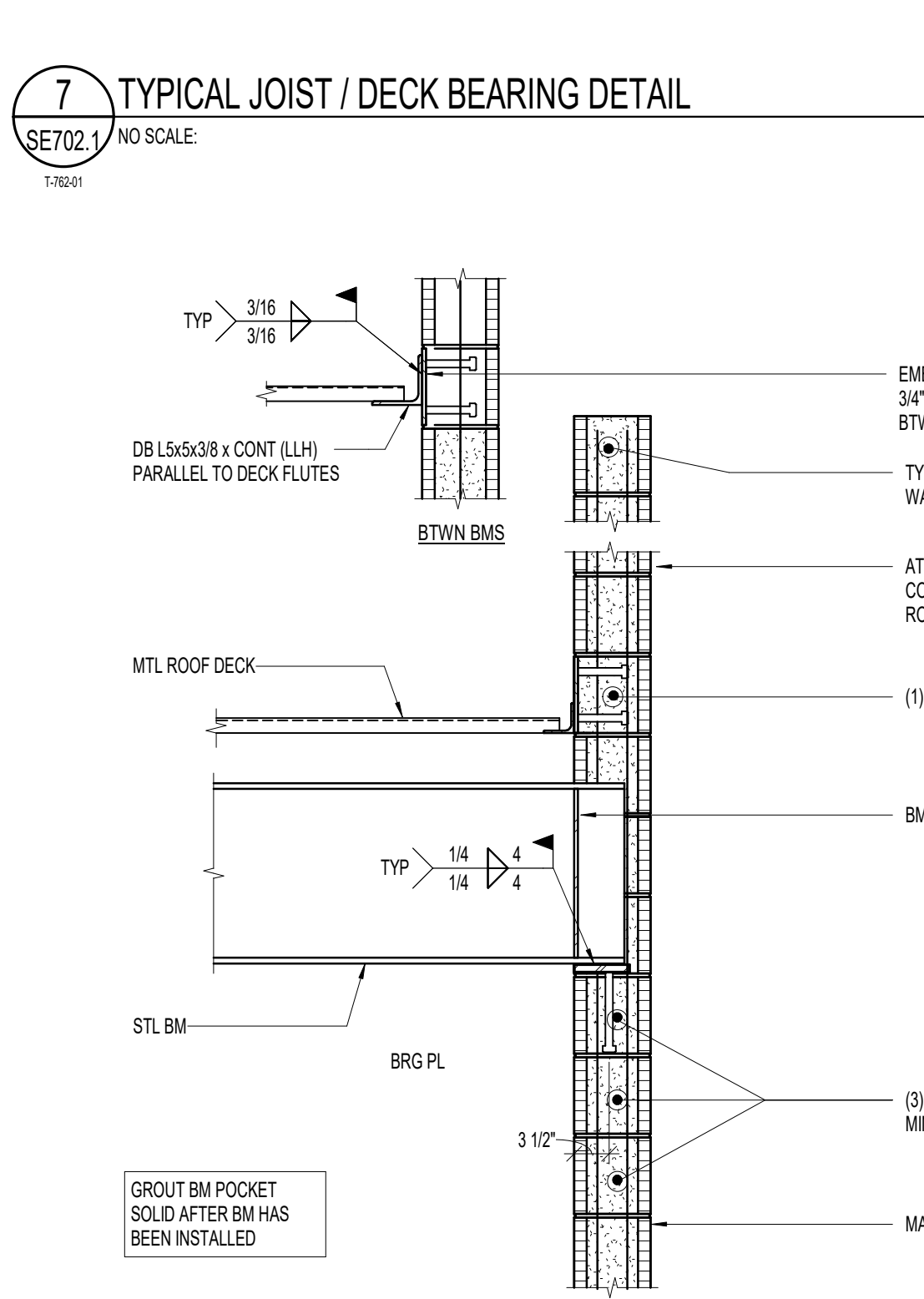
**9** TYPICAL STEEL BRACE CONNECTION DETAIL TO MASONRY WALL  
SE702.1 NO SCALE



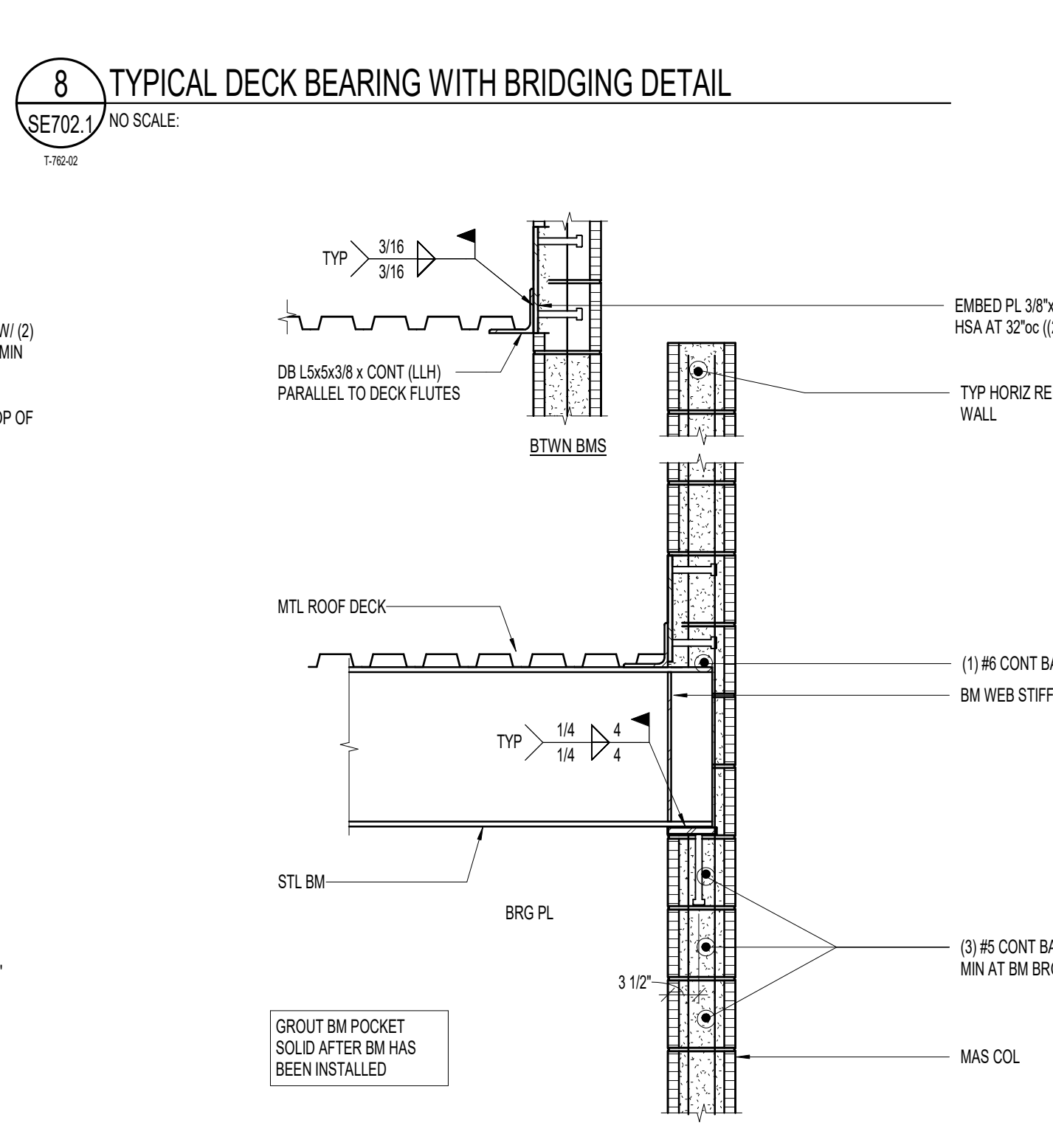
**10** WALL BRACING AT CANOPY  
SE702.1 NO SCALE



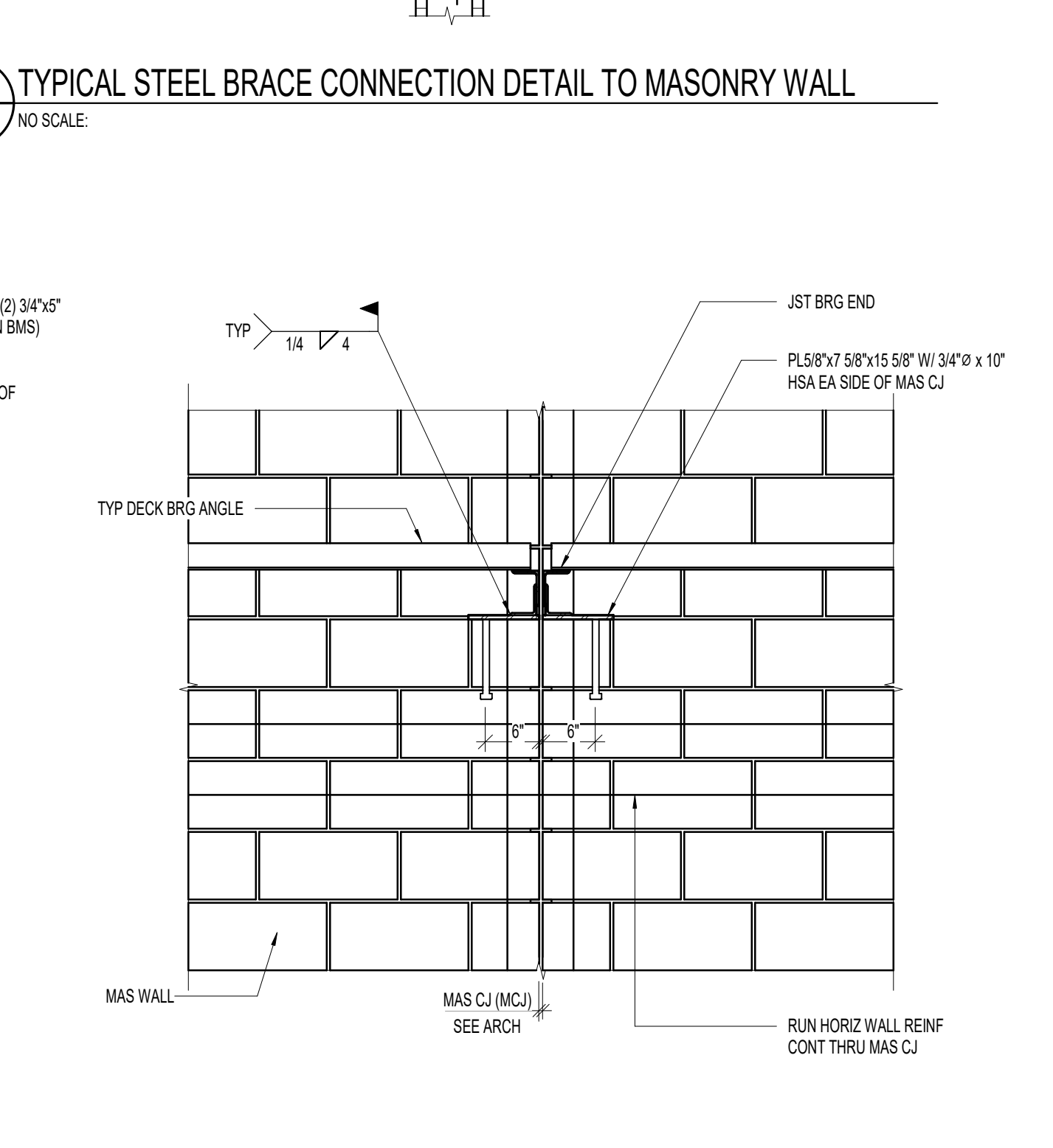
**11** TYPICAL BRIDGING DETAIL  
SE702.1 NO SCALE



**12** TYPICAL BEAM / DECK BEARING DETAIL  
SE702.1 NO SCALE

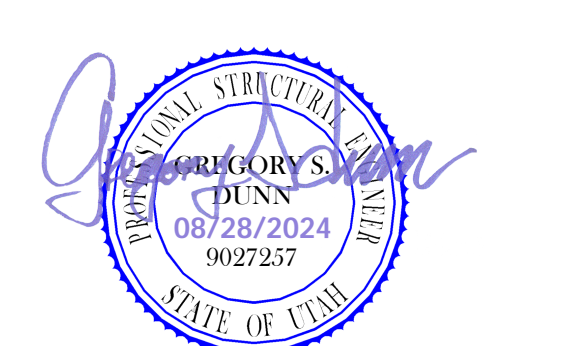


**13** TYPICAL BEAM / DECK BEARING DETAIL  
SE702.1 NO SCALE



**14** JOIST BEARING AT MASONRY CONTROL JOINT DETAIL  
SE702.1 NO SCALE

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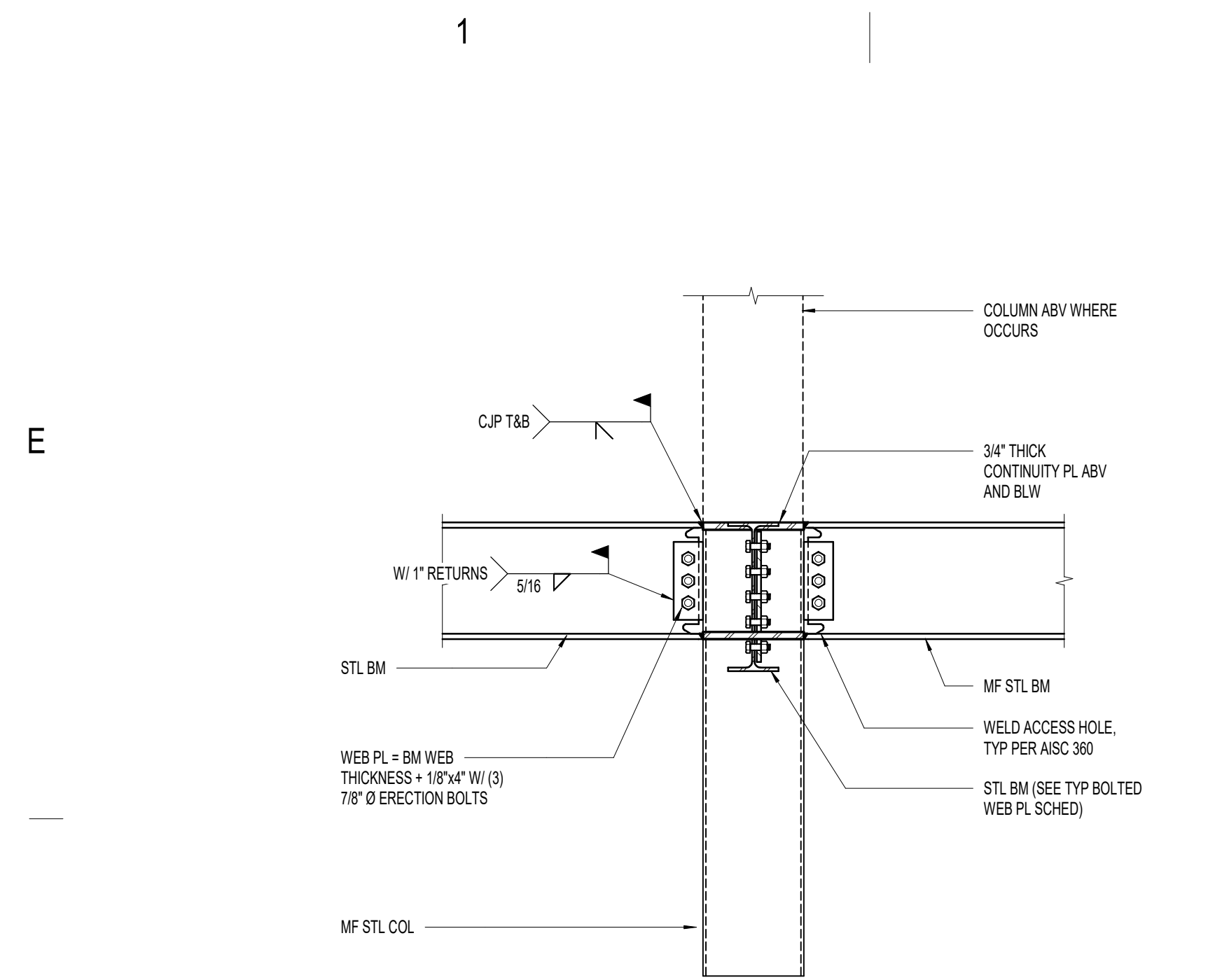


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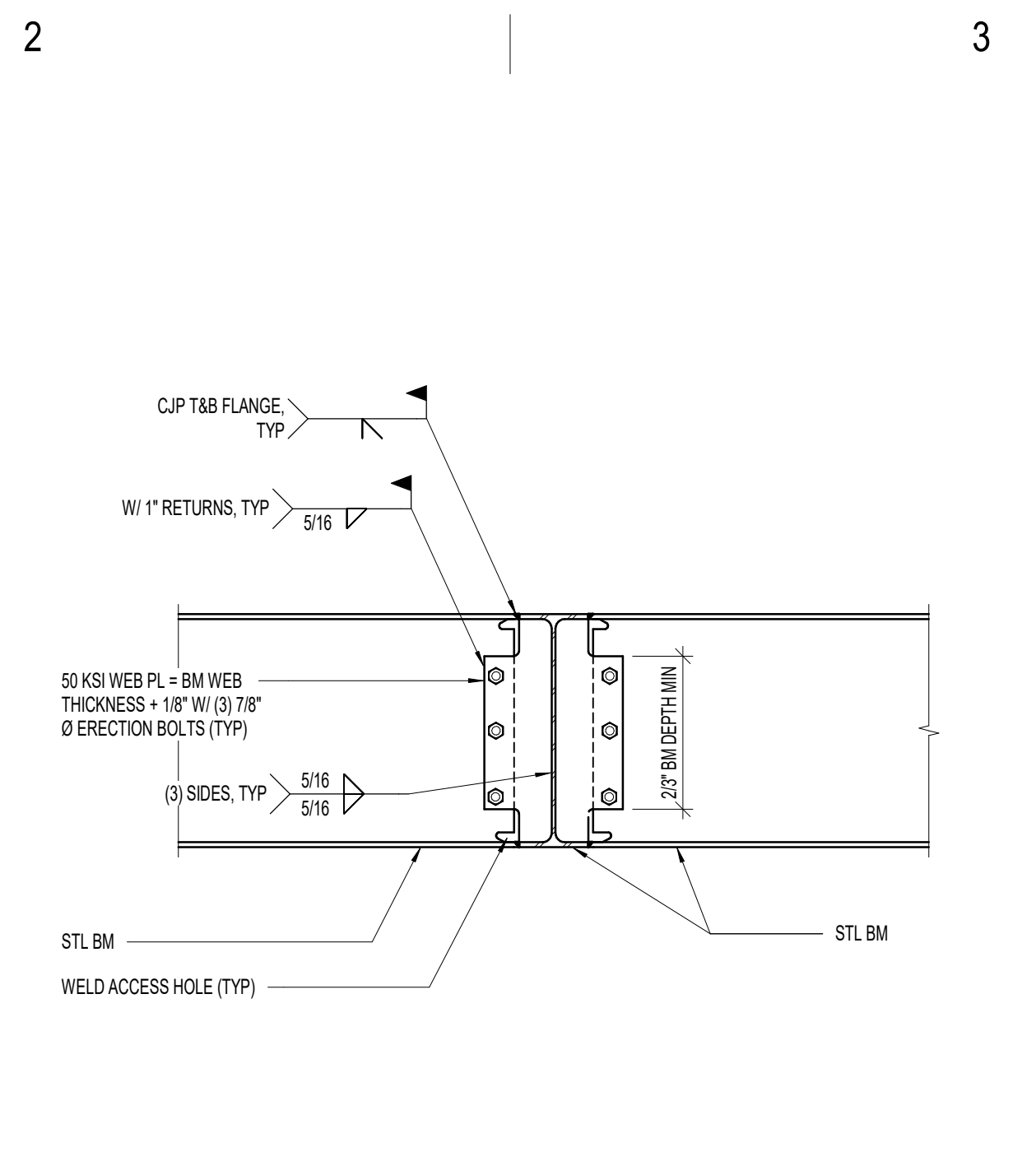
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**ROOF FRAMING DETAILS**  
**SE702.1**

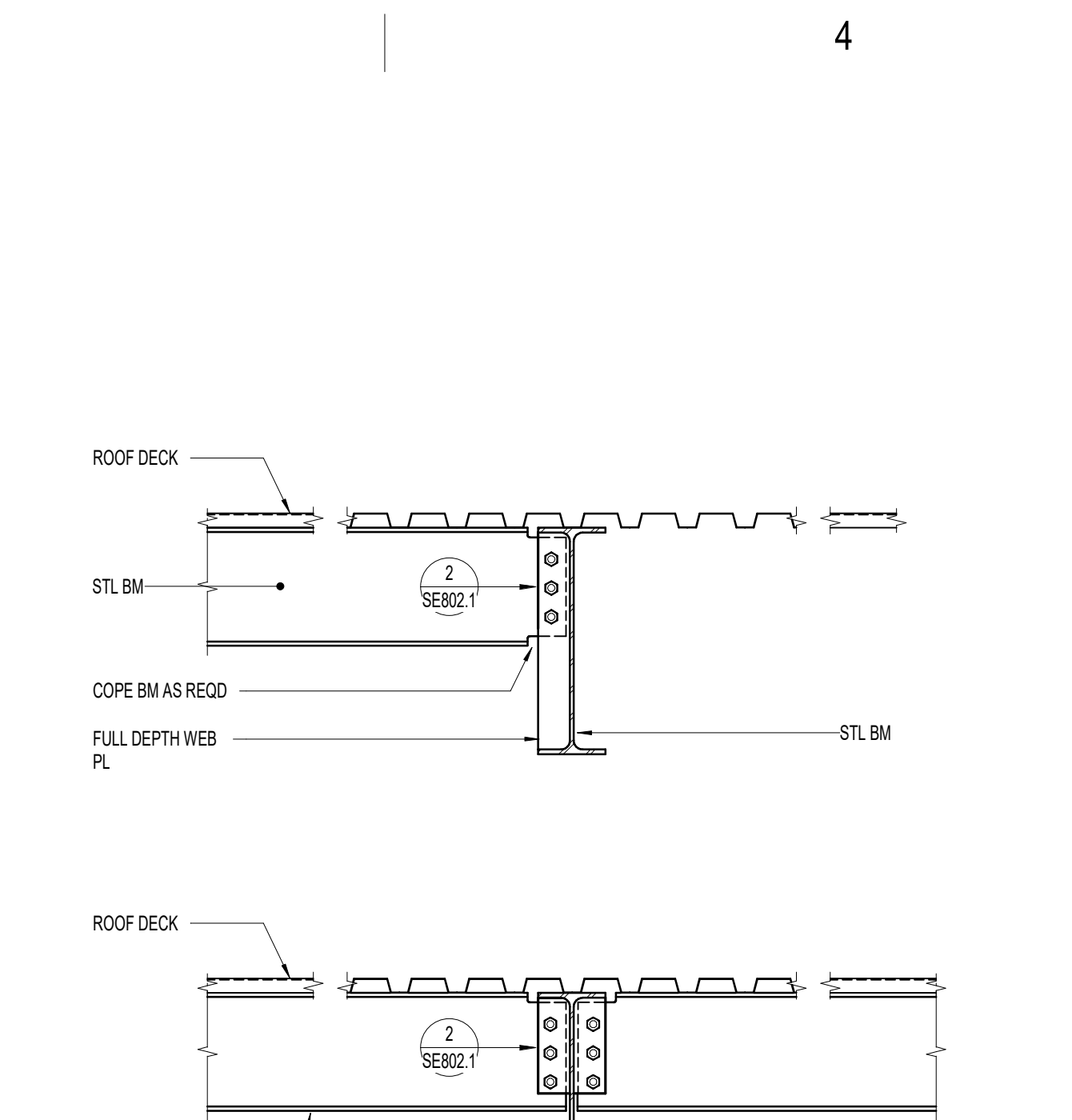
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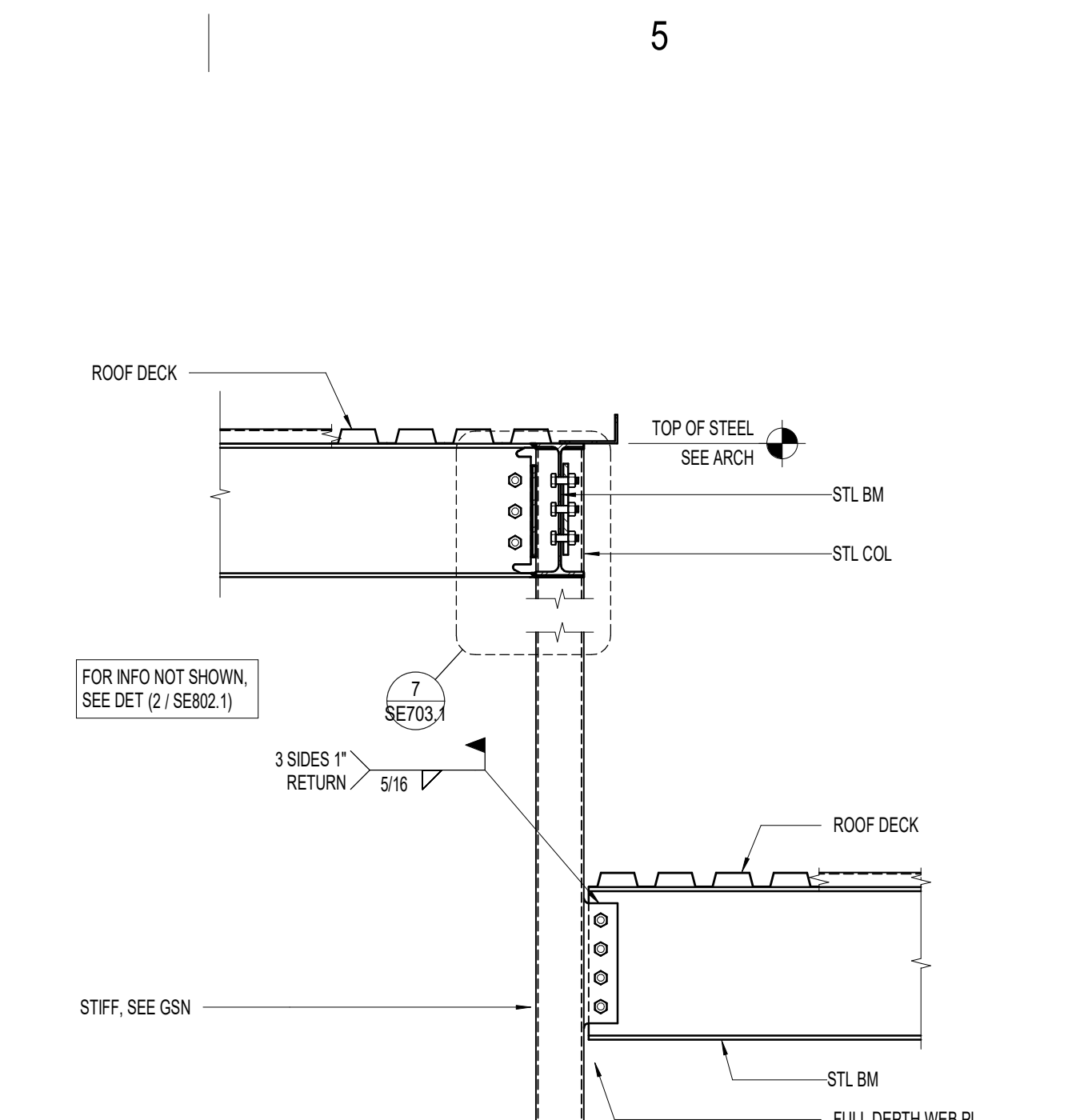
**1** MOMENT CONNECTION AT MOMENT FRAME COLUMN  
SE703.1 NO SCALE  
1/26/24



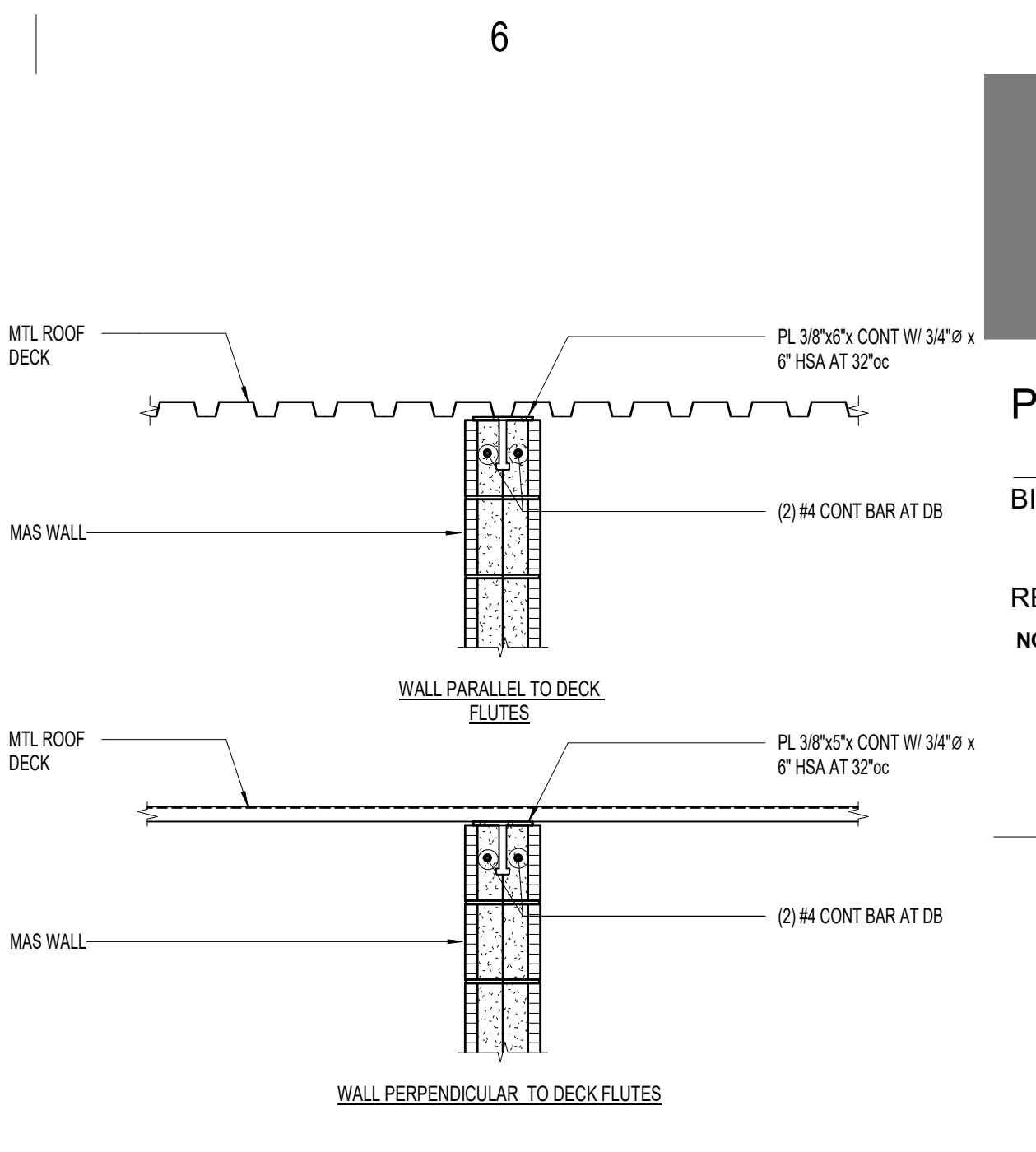
**2** TYPICAL BEAM TO BEAM MOMENT CONNECTION THRU EQUAL DEPTH BEAM  
SE703.1 NO SCALE  
1/26/24



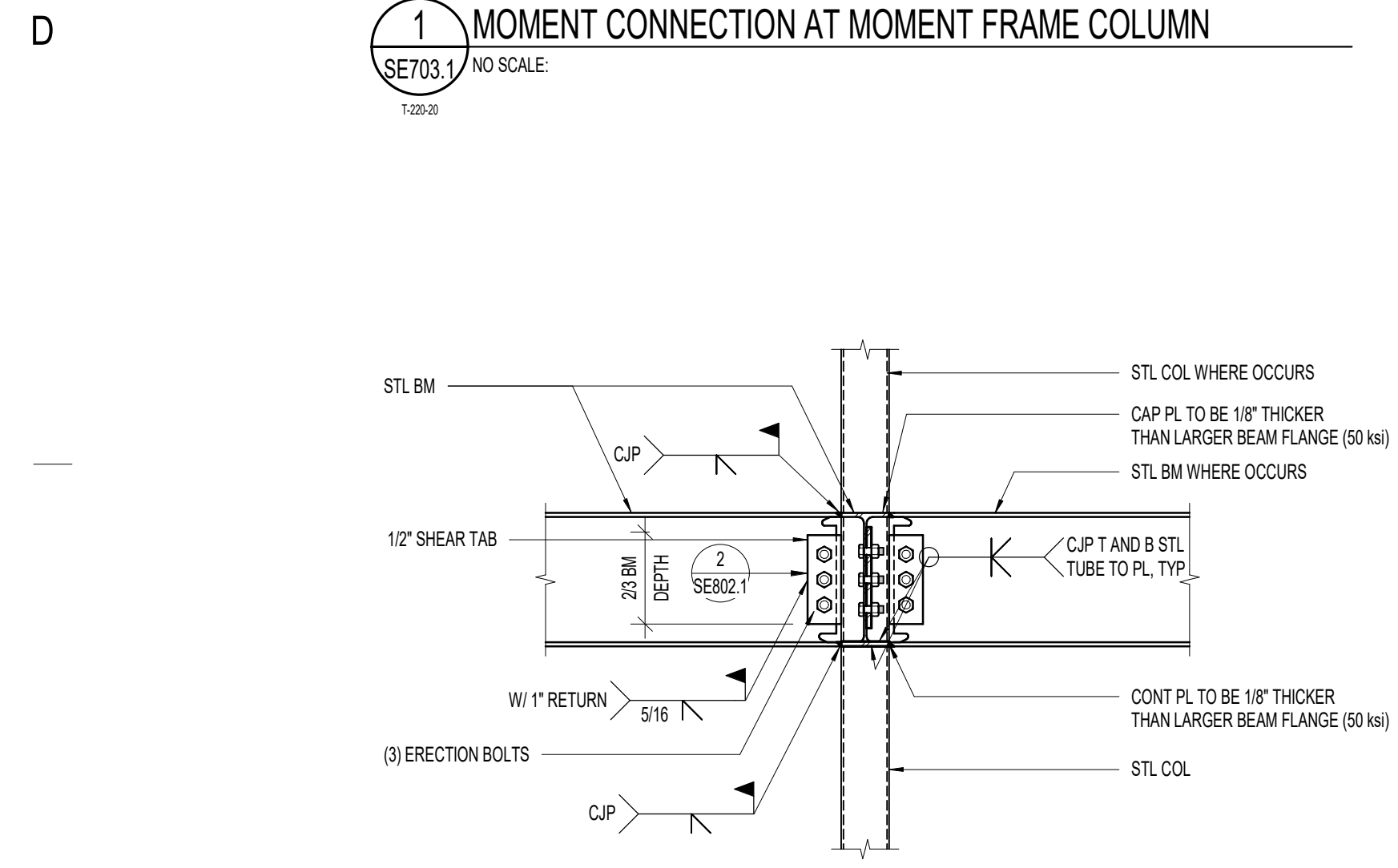
**3** TYPICAL STEEL BEAM TO STEEL BEAM CONNECTION DETAILS  
SE703.1 NO SCALE  
1/26/24



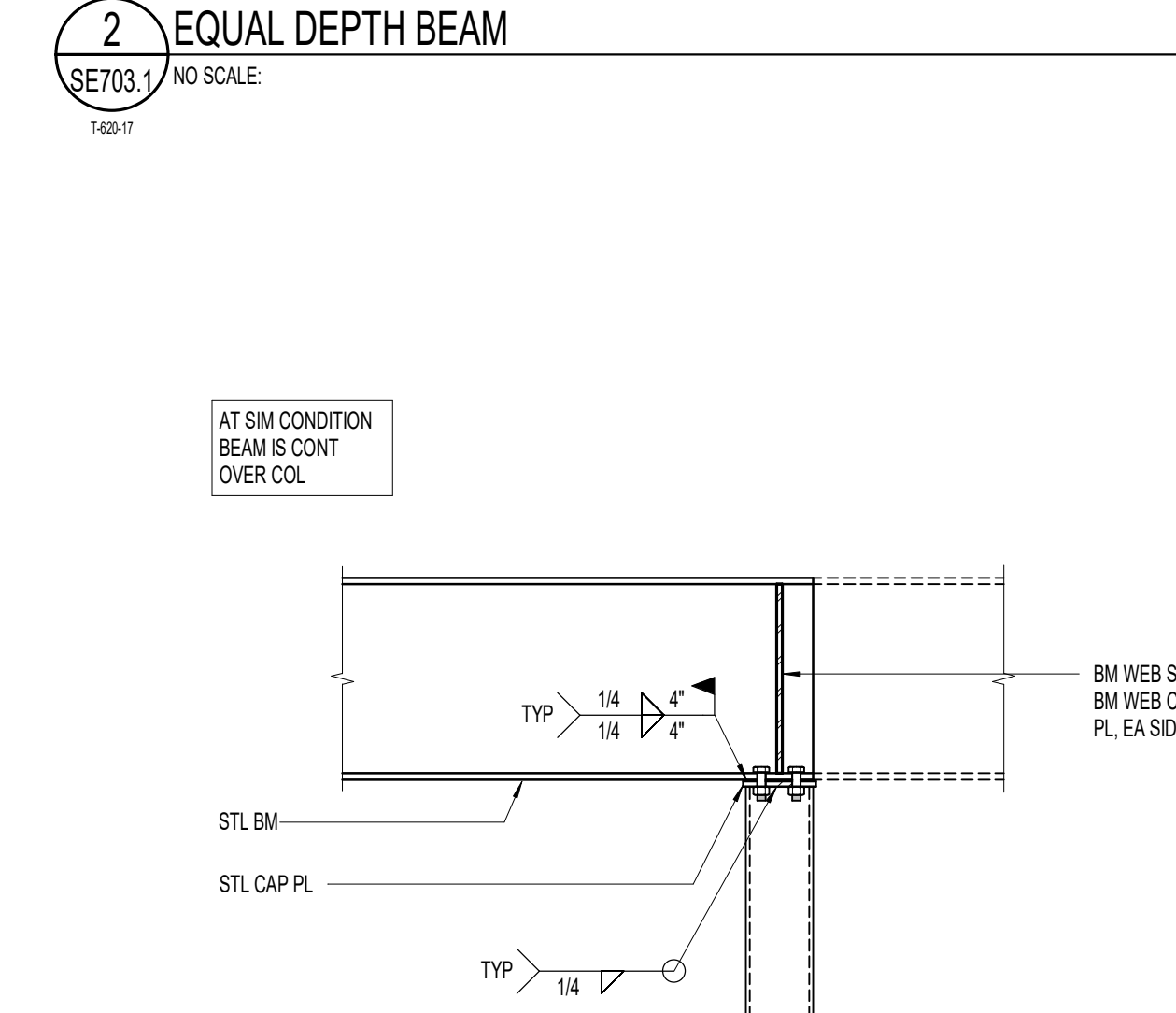
**4** TYPICAL POP-UP STEEL CONNECTIONS AT ROOF  
SE703.1 NO SCALE  
1/26/24



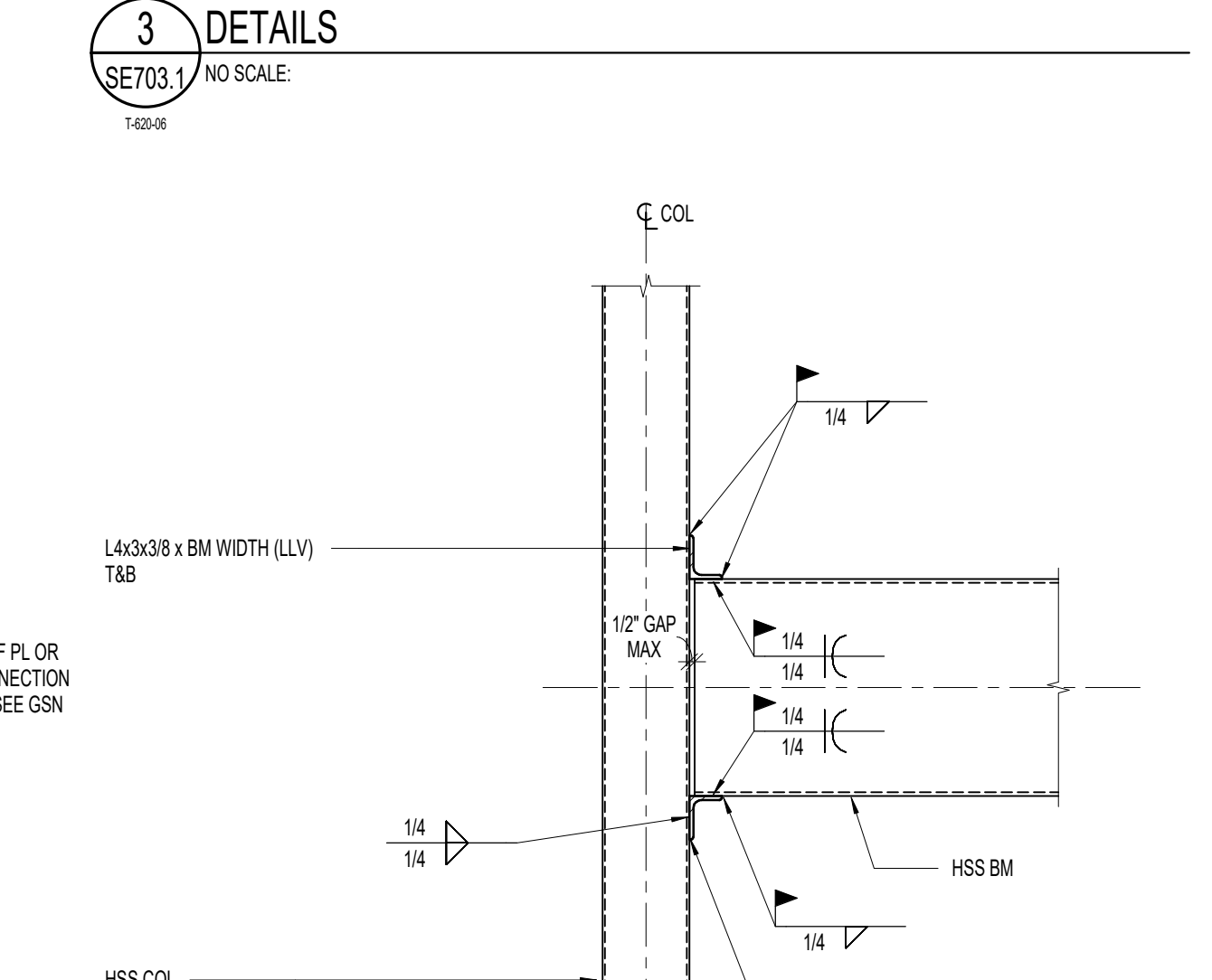
**6** TYPICAL DECK BEARING AT MASONRY WALL  
SE703.1 NO SCALE  
1/26/24



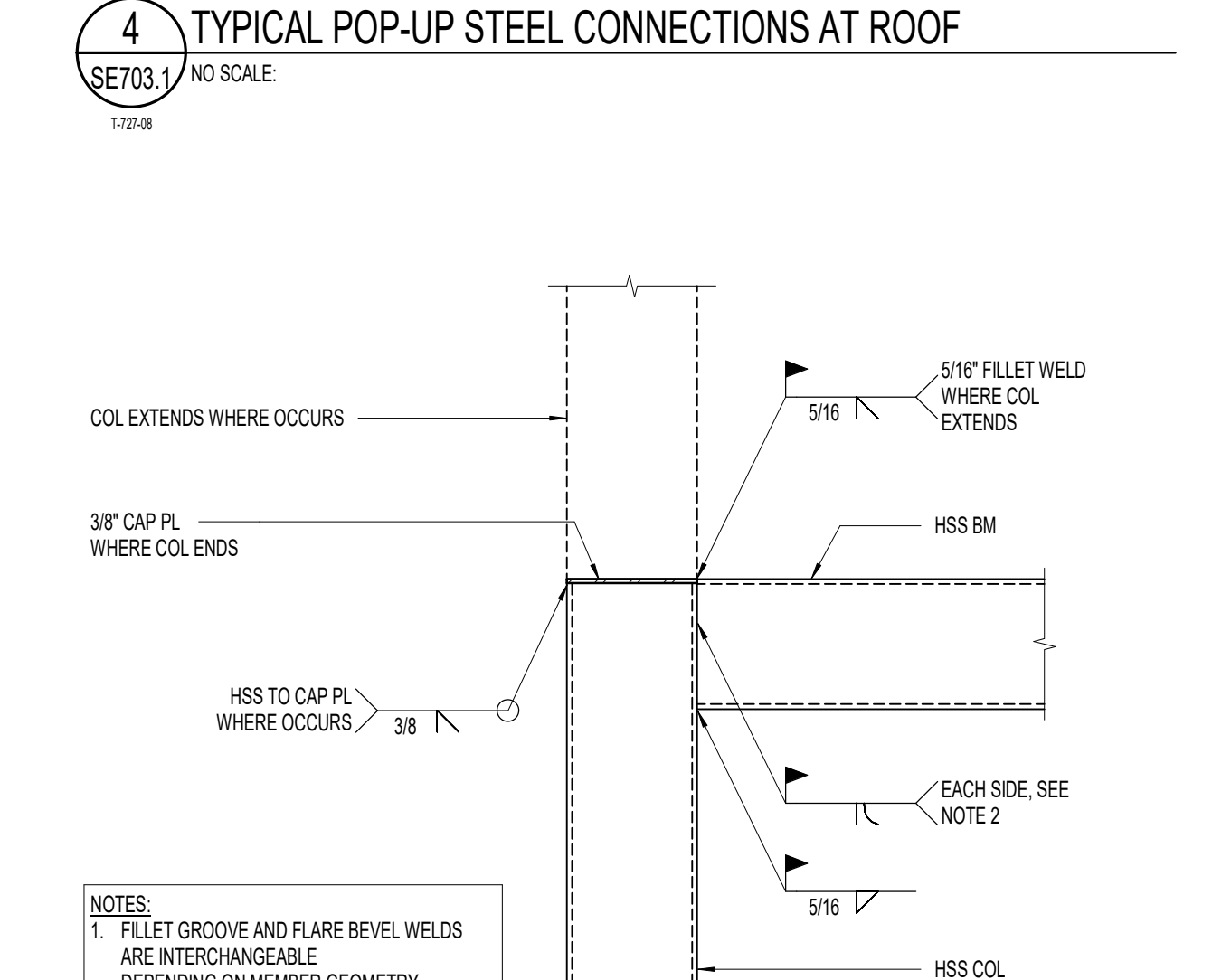
**7** TYPICAL POP-UP STEEL BEAM TO HSS COL CONNECTION  
SE703.1 NO SCALE  
1/26/24



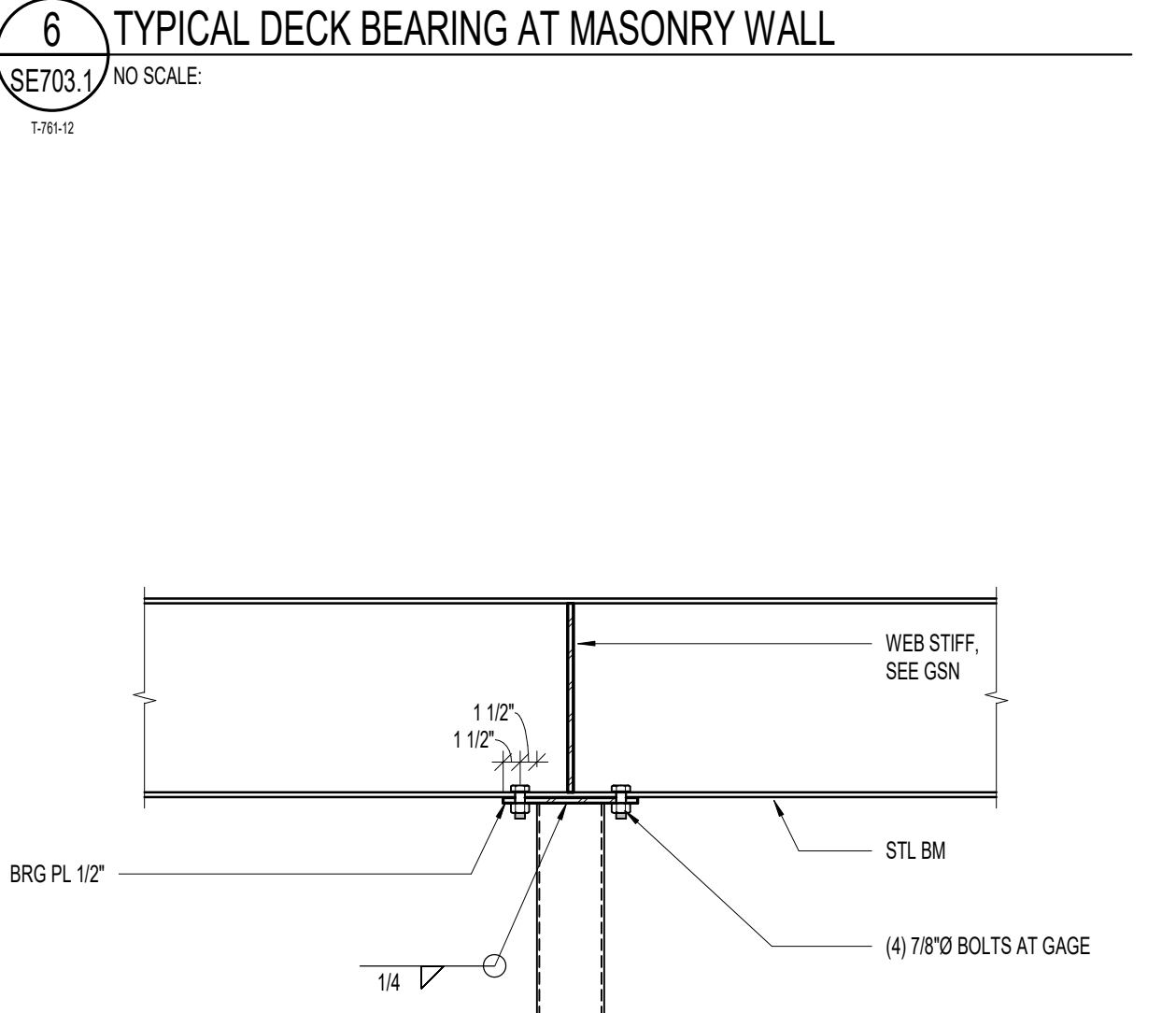
**8** COLUMN TO BEAM CONNECTION AT FIN  
SE703.1 NO SCALE  
1/26/24



**9** HSS BEAM TO HSS COLUMN CONNECTION  
SE703.1 NO SCALE  
1/26/24



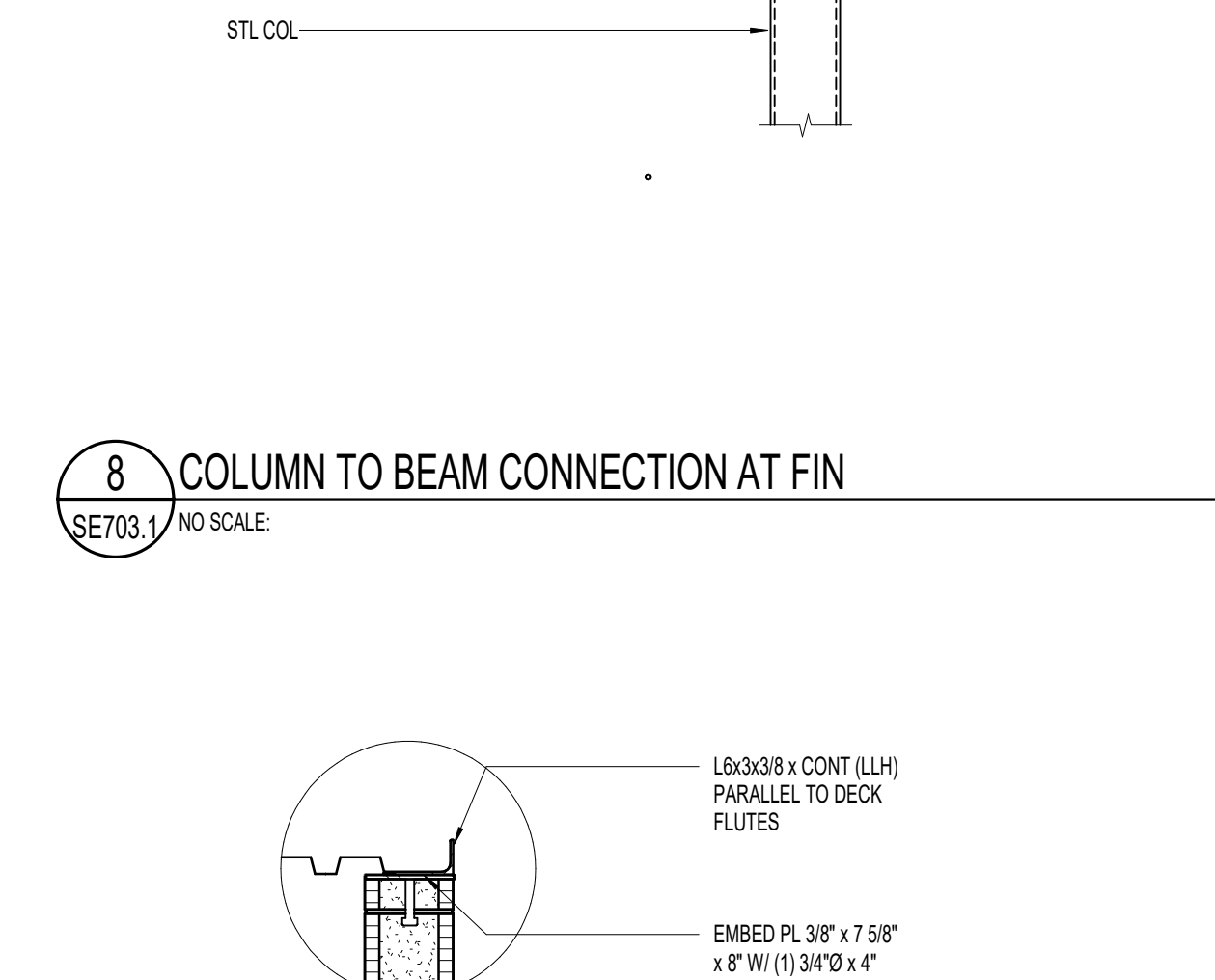
**10** TYPICAL HSS TO HSS CONNECTION  
SE703.1 NO SCALE  
1/26/24



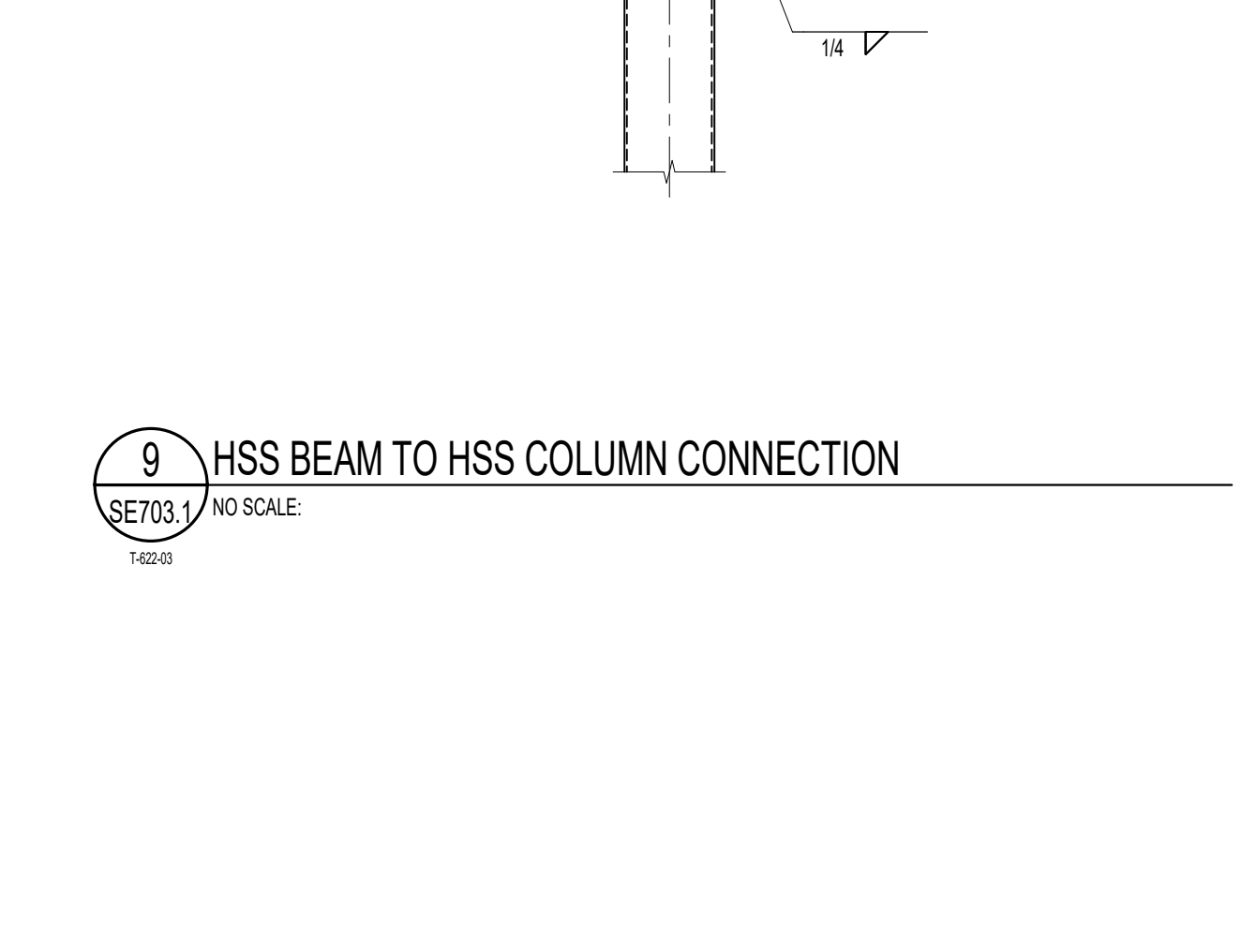
**11** TYPICAL BEAM OVER TUBE COLUMN CONNECTION  
SE703.1 NO SCALE  
1/26/24



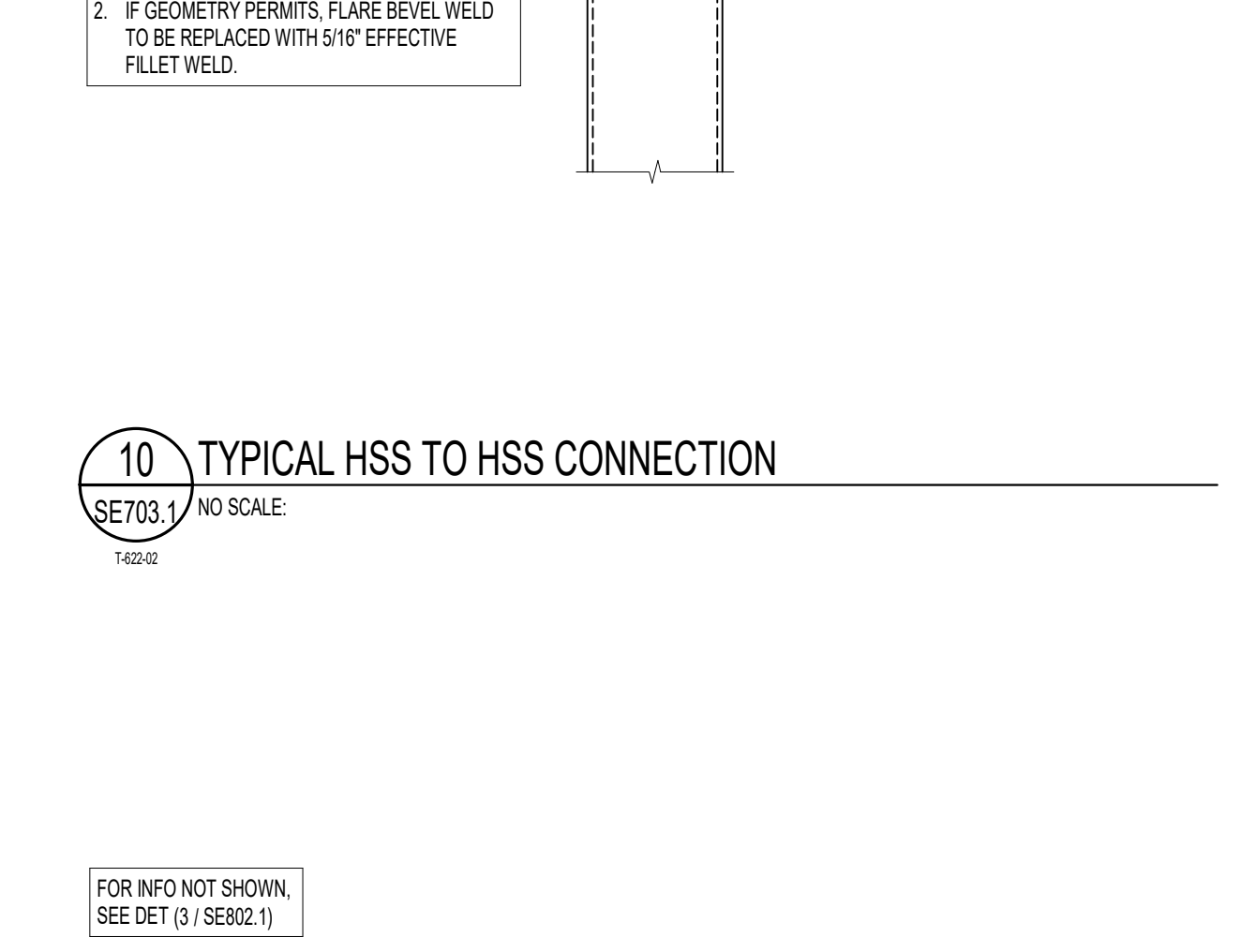
**12** LINTEL AT STEEL STUD WALL  
SE703.1 NO SCALE  
1/26/24



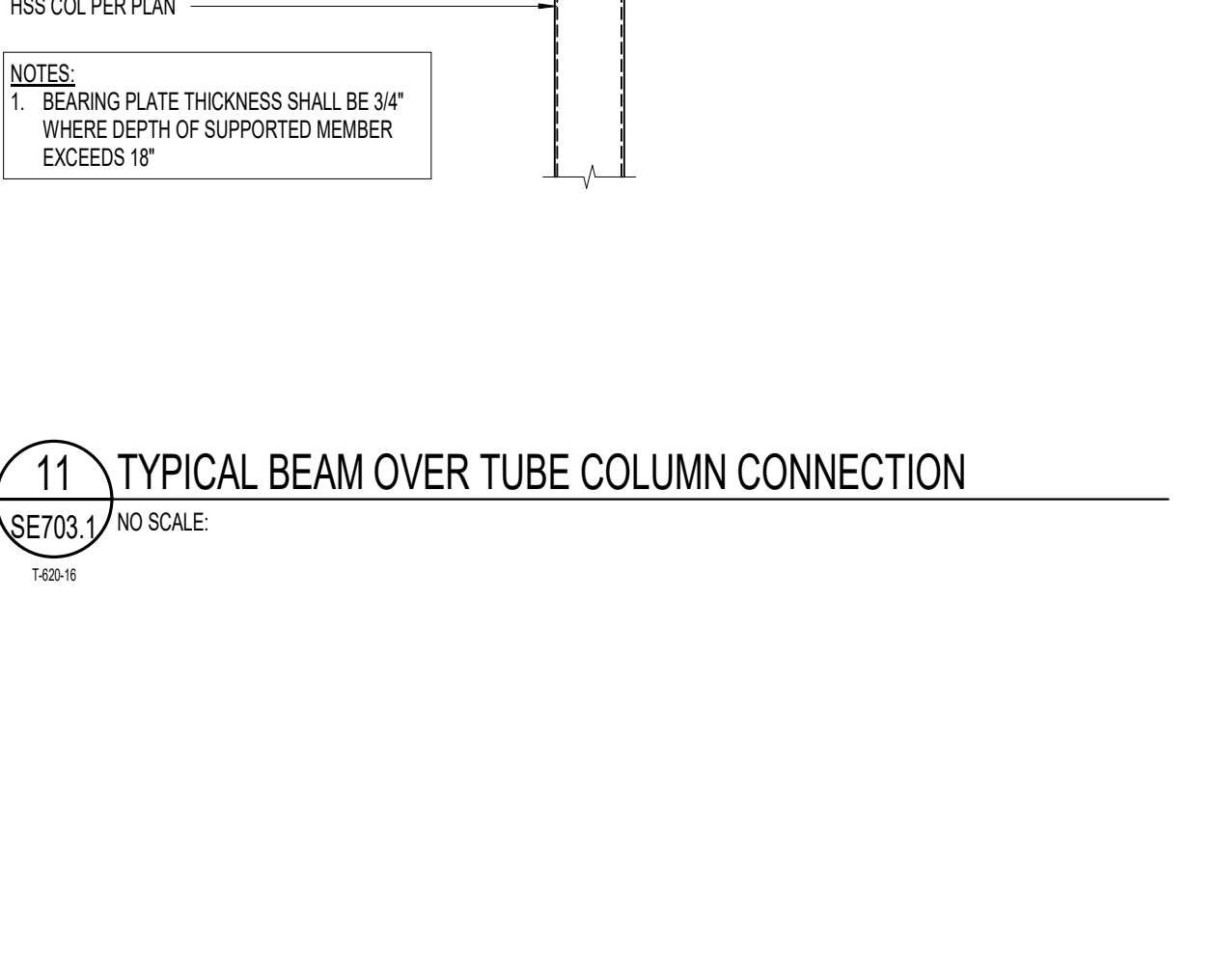
**13** PARTIAL HEIGHT MASONRY WALL TO BEAM CONNECTION  
SE703.1 NO SCALE  
1/26/24



**14** VESTIBULE ROOF AT FIN  
SE703.1 NO SCALE  
1/26/24



**15** MOMENT FRAME BEAM BRACE AT JOIST  
SE703.1 NO SCALE  
1/26/24

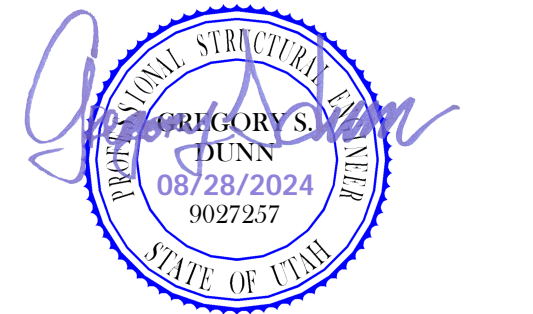


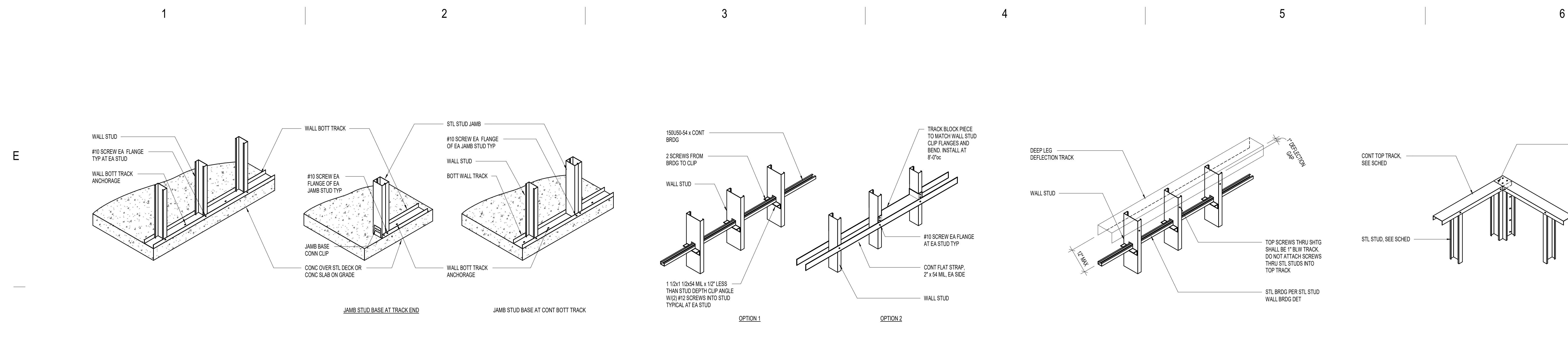
**5** HSS BEAM TOP AND BOTTOM FLANGE CONNECTIONS AND NOTES  
SE703.1 NO SCALE  
1/26/24

2024-08-26  
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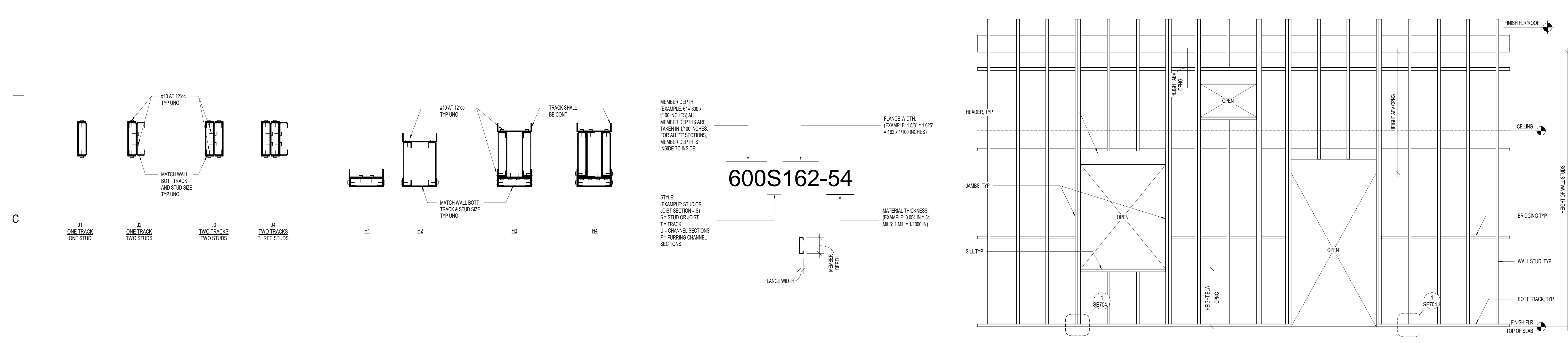
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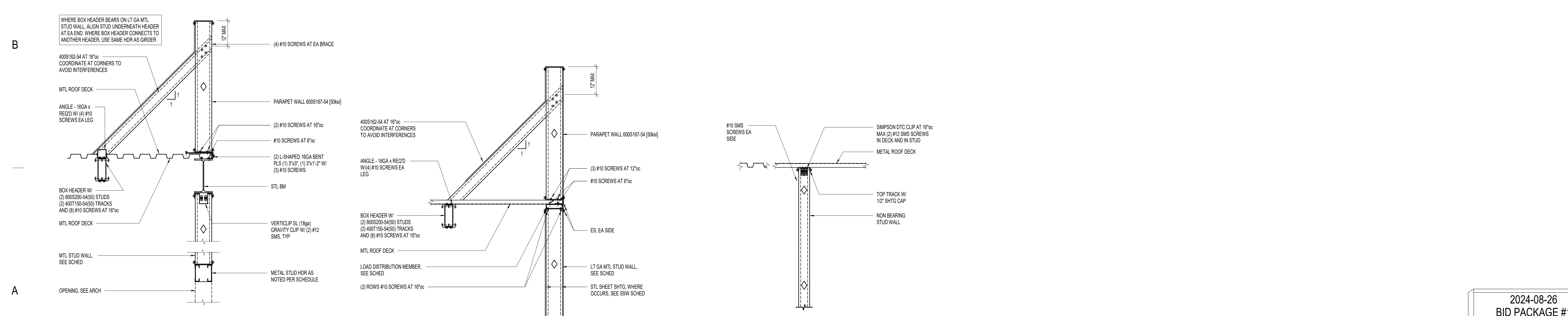




1 TYPICAL BOTTOM TRACK ANCHORAGE DETAILS  
2 TYPICAL STEEL STUD WALL BRIDGING DETAIL  
3 TYPICAL STEEL STUD WALL DEFLECTION TRACK ASSEMBLY DETAIL - SINGLE & DOUBLE TRACK  
4 TYPICAL WALL FRAMING AT CORNER TRACK LAP CONNECTION



5 TYPICAL STEEL STUD JAMB DETAILS



6 TYPICAL STUD HEADER DETAILS  
7 STEEL STUD MANUFACTURER'S ASSOCIATION NOMENCLATURE  
8 TYPICAL EXTERIOR WALL OPENING FRAMING ELEVATION



9 PARAPET WITH DECK PARALLEL TO WALL  
10 PARAPET WITH DECK PERPENDICULAR TO WALL  
11 TYPICAL NON-BEARING STEEL STUD TO DECK CONNECTION

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STEEL STUD FRAMING DETAILS  
**SE704.1**  
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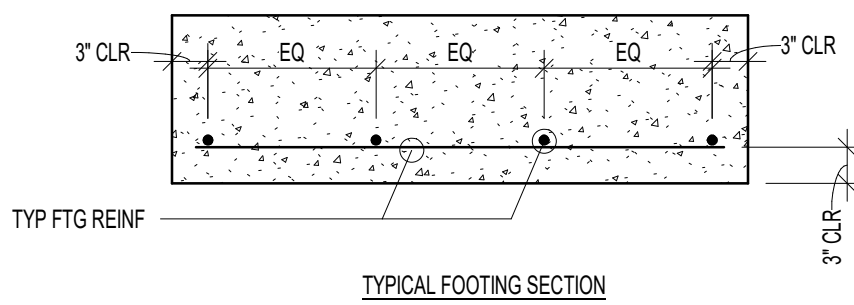


PROJECT 240104

BID PACKAGE #1 2024-08-26

REVISIONS NO. DATE DESCRIPTION

CONCRETE FOOTING SCHEDULE table with columns: MARK, WIDTH, LENGTH, THICKNESS, REINFORCING CROSSWISE, REINFORCING LENGTHWISE, COMMENTS

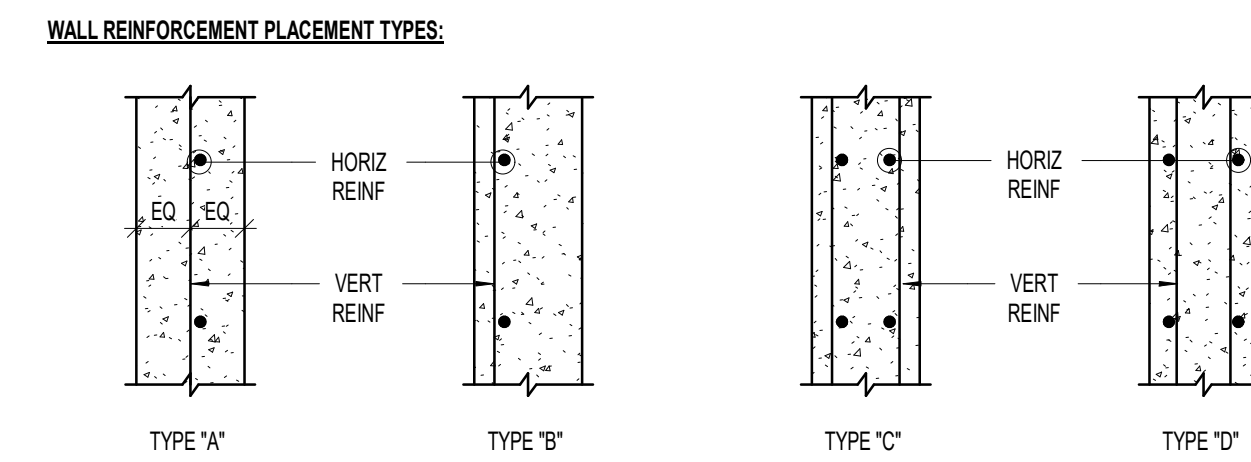


- CONCRETE FOOTING NOTES: 1. PLACE ALL FOOTING REINFORCING IN BOTTOM OF FOOTING WITH 3" CLEAR CONCRETE COVER... 2. TOP REINFORCING, WHERE SPECIFIED, SHALL BE PLACED IN THE TOP OF THE FOOTING WITH 2" MINIMUM CONCRETE COVER...

CONCRETE WALL SCHEDULE table with columns: MARK, THICKNESS, REINFORCING (VERTICAL, HORIZONTAL, TOP AND BOTTOM), WALL TYPE, COMMENTS

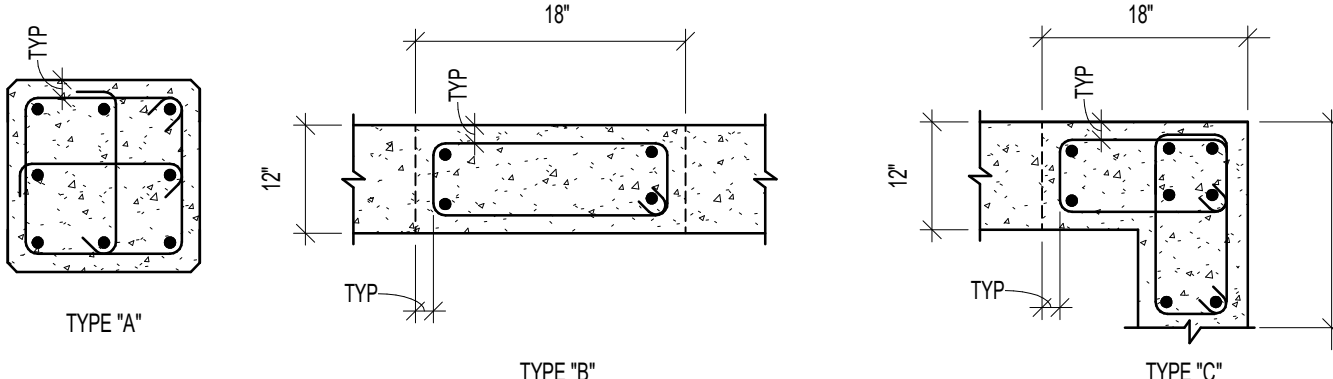
- CONCRETE WALL NOTES: 1. SEE GENERAL STRUCTURAL NOTES FOR COVER AND OTHER REQUIREMENTS NOT NOTED IN SCHEDULE. 2. CONCRETE WALLS NOT DESIGNATED ON THE PLANS SHALL BE REINFORCED AS FOLLOWS:

- THICKNESS: 6" #4 BARS AT 18"OC; 8" #4 BARS AT 18"OC; 10" #4 BARS AT 18"OC; 12" #4 BARS AT 18"OC EA FACE



CONCRETE PIER SCHEDULE table with columns: MARK, PIER SIZE, REINFORCING (VERTICAL, TIES), TYPE, COMMENTS

- CONCRETE PIER NOTES: 1. INSTALL (3) SETS OF TIES WITHIN THE TOP 5' AT THE TOP OF ALL PIERS (JMD). 2. ALTERNATE POSITION OF HOOKS IN PLACING SUCCESSIVE SETS OF TIES.



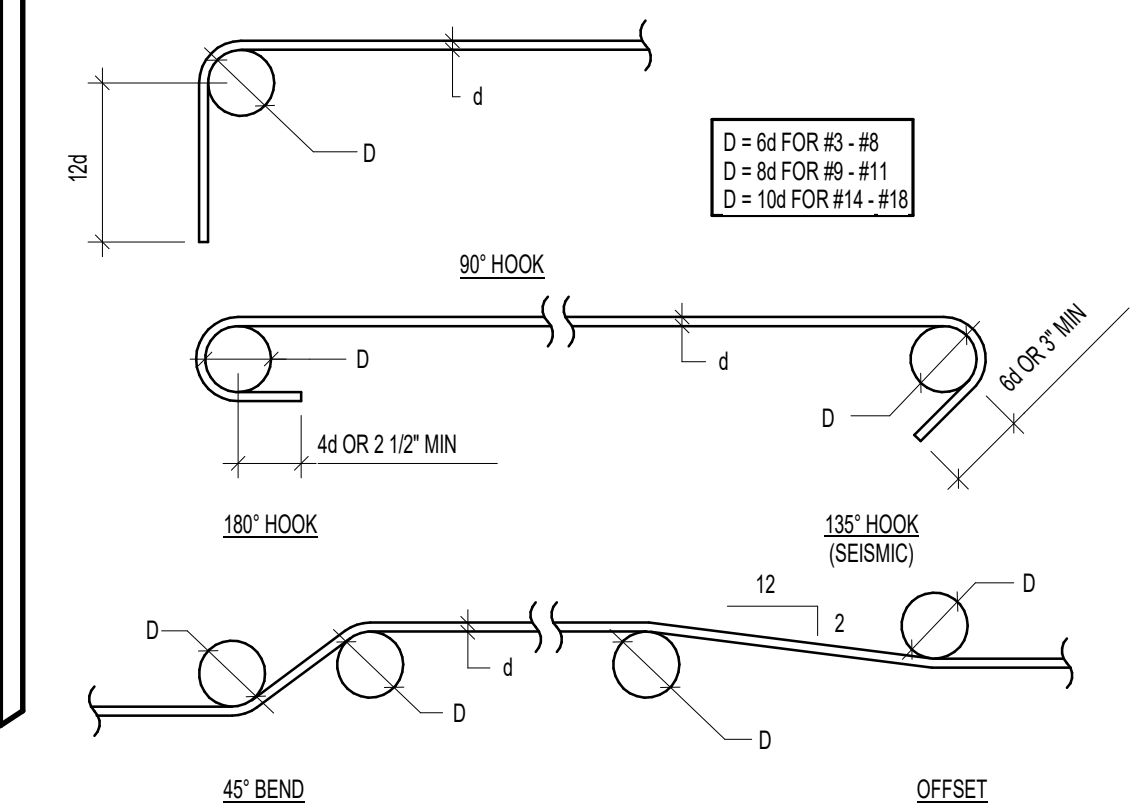
1 CONCRETE FOOTING SCHEDULE SE801.1 NO SCALE

2 CONCRETE WALL SCHEDULE SE801.1 NO SCALE

3 CONCRETE PIER SCHEDULE SE801.1 NO SCALE

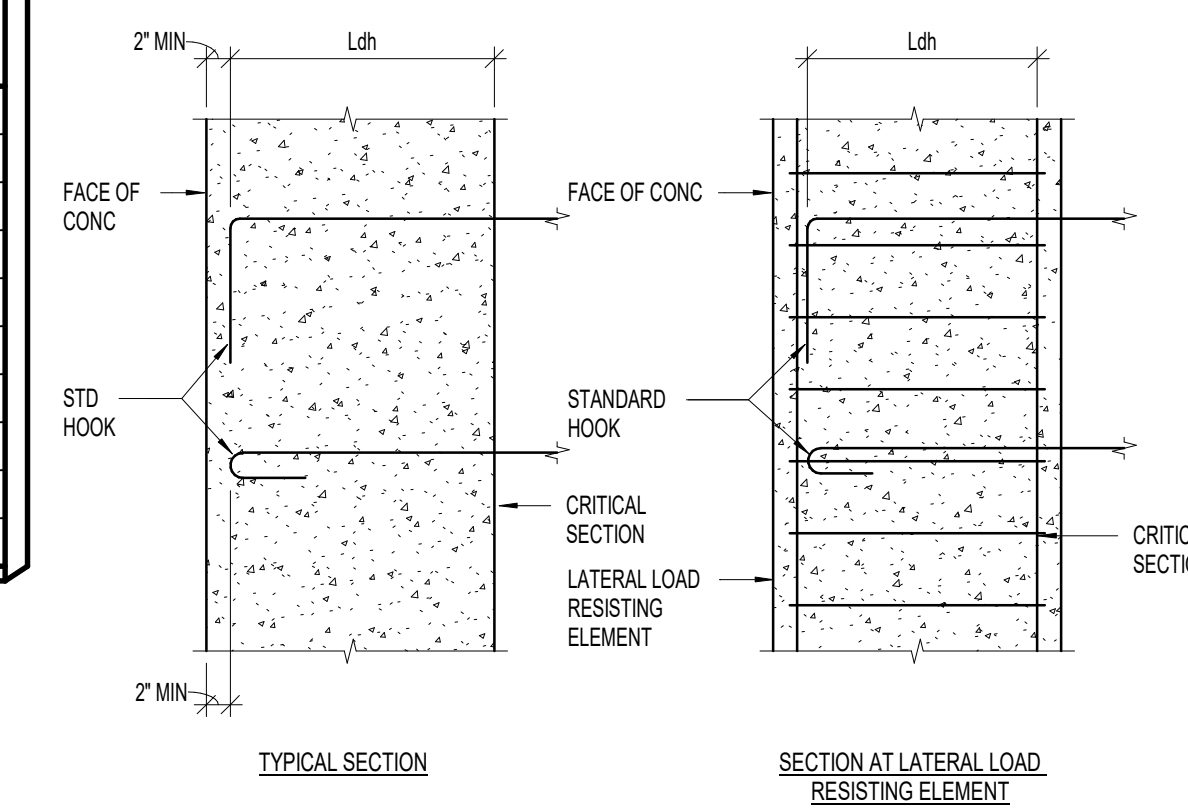
CONCRETE REINFORCING BAR LAP SPlice SCHEDULE table with columns: BAR SIZE, CLASS, TOP, REGULAR, TOP, REGULAR, TOP, REGULAR, TOP, REGULAR, TOP, REGULAR, TOP

- NOTES: 1. THIS SCHEDULE SHALL BE USED FOR ALL SPLICES, UNLESS NOTED OTHERWISE. 2. HORIZONTAL BARS ARE CLASSIFIED AS TOP BARS WHERE 12" OR MORE OF FRESH CONCRETE IS CAST BELOW THE REINFORCING BARS.



HOOKED BAR DEVELOPMENT LENGTHS, Ldh table with columns: BAR SIZE, fc = 3000 PSI, fc = 4000 PSI, fc = 4500 PSI, fc = 5000 PSI, fc = 6000 PSI

- NOTES: 1. FOR GRADE IR REBAR, MULTIPLY LENGTHS BY 1.33. 2. FOR LIGHTWEIGHT CONCRETE, MULTIPLY LENGTHS BY 1.3. 3. FOR EPOXY COATED REINFORCEMENT, MULTIPLY LENGTHS BY 1.2.



4 CONCRETE REINFORCING BAR LAP SCHEDULES AND DIAGRAMS SE801.1 NO SCALE

DTC WELDING TECH & FABRICATION BUILDING 355 SOUTH 650 EAST KAYSVILLE, UT 84037



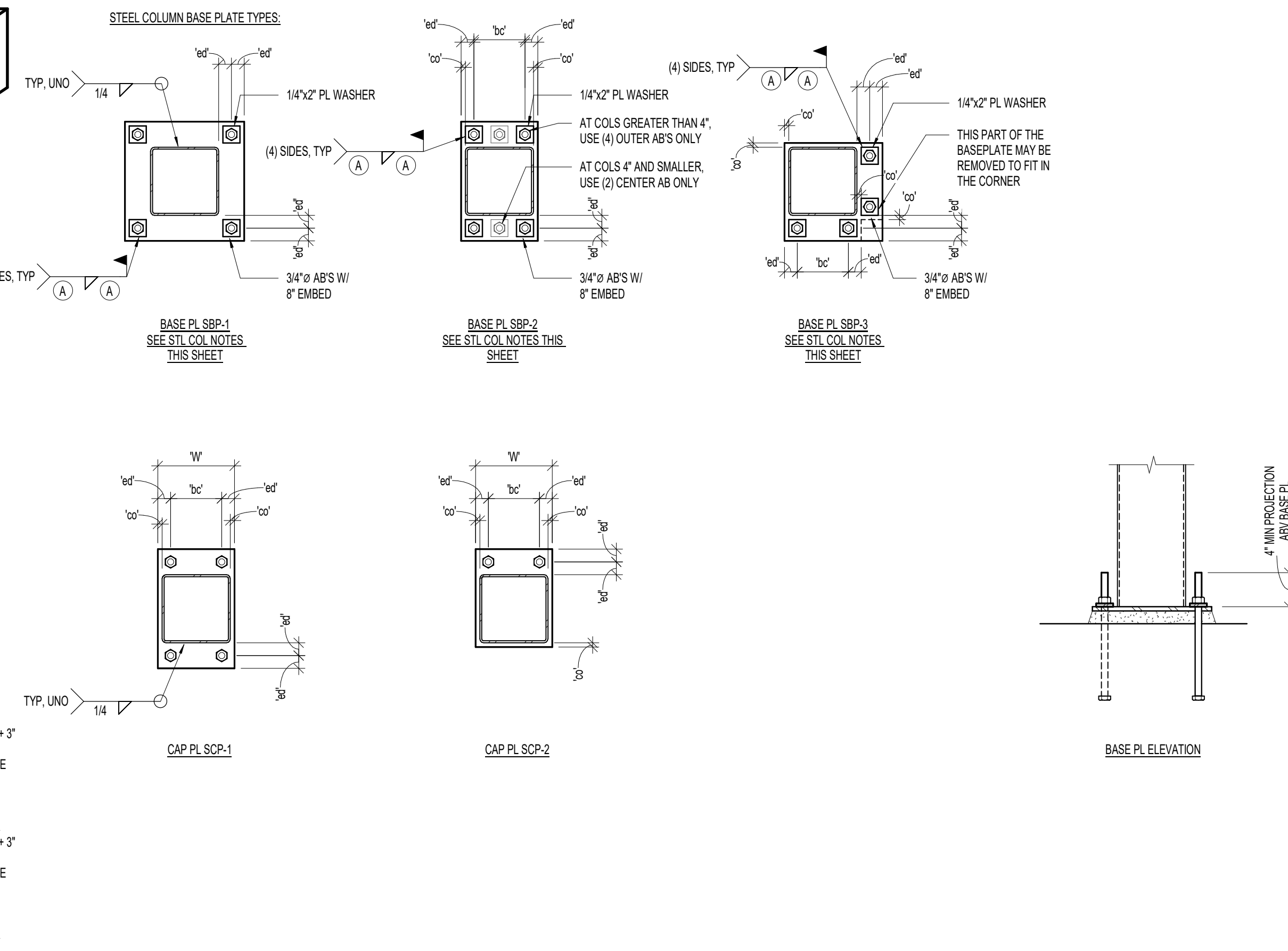
2024-08-26 BID PACKAGE #1 NOTE: THESE STRUCTURAL DRAWINGS ARE BASED ON ARCHITECTURAL DRAWINGS DATED July 23, 2024...

CONCRETE SCHEDULES SE801.1 (801) 355-5915

REVISIONS		
NO.	DATE	DESCRIPTION

**STEEL COLUMN SCHEDULE**

- STEEL COLUMN NOTES:**
- ALL ANCHOR BOLTS SHALL BE ASTM F1554 GRADE 55 (AT CONTRACTOR'S OPTION, GRADE 56 ANCHORS MAY BE SUBSTITUTED WITH GRADE 56 ANCHORS), UNLESS NOTED OTHERWISE. ALL COLUMNS SHALL BE INSTALLED WITH HEADED (OR DOUBLE NUT) ANCHOR BOLTS. PROJECT ANCHOR BOLTS 4" MINIMUM ABOVE THE TOP OF THE BASE PLATE.
  - ANCHOR BOLTS SHALL NOT BE WELDED (INCLUDING TACK WELDS).
  - IF DESIRED SPLICE LOCATIONS DIFFER FROM THOSE LEVELS SHOWN ON PLAN, NOTIFY STRUCTURAL ENGINEER PRIOR TO FABRICATION. WRITTEN APPROVAL REQUIRED.
  - ALL CAP PLATE BOLTS SHALL BE 3/4" BOLTS, TYPICAL, UNLESS NOTED OTHERWISE.
  - ALL CAP PLATES TO BE 3/4" THICK UNO.
  - SEE (2) (SEE 9.1) FOR COLUMNS WRAPPED IN CONCRETE.
  - SEE GENERAL STRUCTURAL NOTES FOR OTHER REQUIREMENTS.
  - ERECTION AIDS TO BE REMOVED AFTER COLUMN SPLICING.
  - FOR HSS 14x14 AND HSS 18x18 COLUMNS, ANCHOR BOLTS SHOULD BE 1" DIAMETER WITH 12" EMBEDS WITH 3/8"x2" PLATE WASHERS. FOR HSS 12x12 COLUMNS OR SMALLER, ANCHOR BOLTS SHOULD BE 3/4"x2" WITH 1" EMBEDS WITH 1/4"x2" PLATE WASHERS. FOR HSS 10x10 COLUMNS OR SMALLER HSS COLUMNS, ASTM F1554 GRADE 36 RODS MAY BE SUBSTITUTED.
  - OVERSIZED HOLES MAY BE USED IN BASE PLATES PROVIDED THEY DO NOT EXCEED THE FOLLOWING SIZES:  
 3/4" BOLT ≤ 1 1/8"  
 1" BOLT ≤ 1 1/2"  
 1 1/4" BOLT ≤ 1 7/8"  
 1 1/2" BOLT ≤ 2 1/8"
  - HOLES IN PLATE WASHERS SHOULD BE 1/8" GREATER THAN BOLT DIMENSION.
  - NON-SHRINK GROUT UNDER BASE PLATES SHALL BE 1 1/2" THICK UNO.
  - COLUMN LOCATIONS SHOWN ON SCHEDULES ARE APPROXIMATE. PLEASE SEE ARCHITECTURAL DRAWINGS FOR EXACT LOCATIONS.
  - DO NOT WELD IN WIDE FLANGE "K" ZONES. WELDS ARE NOT REQUIRED AT "K" ZONES.
  - WELDING OF PLATE WASHERS TO BASE PLATES MAY BE OMITTED AT SINGLE STORY COLUMNS AND HSS 8x8 COLUMNS OR SMALLER.
- BASE PL LEGEND:**
- 1" = 1/2" MINIMUM  
 1 1/2" = 1 1/2" MINIMUM  
 1 1/2" = 2" MINIMUM  
 1 1/2" = BEAM OR GIRDER GAGE + 3" OR BEAM OR GIRDER FLANGE WIDTH + 1" OR COLUMN DEPTH + 1" WHICHEVER IS GREATER  
 1" = BEAM OR GIRDER GAGE + 3" OR BEAM OR GIRDER FLANGE WIDTH + 1" OR COLUMN WIDTH + 1" WHICHEVER IS GREATER
- CAP PL LEGEND:**
- 1" = 1/2" MINIMUM  
 1 1/2" = 1 1/2" MINIMUM  
 1 1/2" = BEAM OR GIRDER GAGE + 3" OR BEAM OR GIRDER FLANGE WIDTH + 1" OR COLUMN DEPTH + 1" WHICHEVER IS GREATER
- PLATE WASHER THICKNESS - 1 1/8" (MAX WELD SIZE 5/16")**  
 + 2" FOR HSS 18x18 OTHERWISE 1"  
 17. SINGLE STORY COLUMNS DO NOT NEED TO HAVE PLATE WASHERS WELDED TO BASE PLATES.

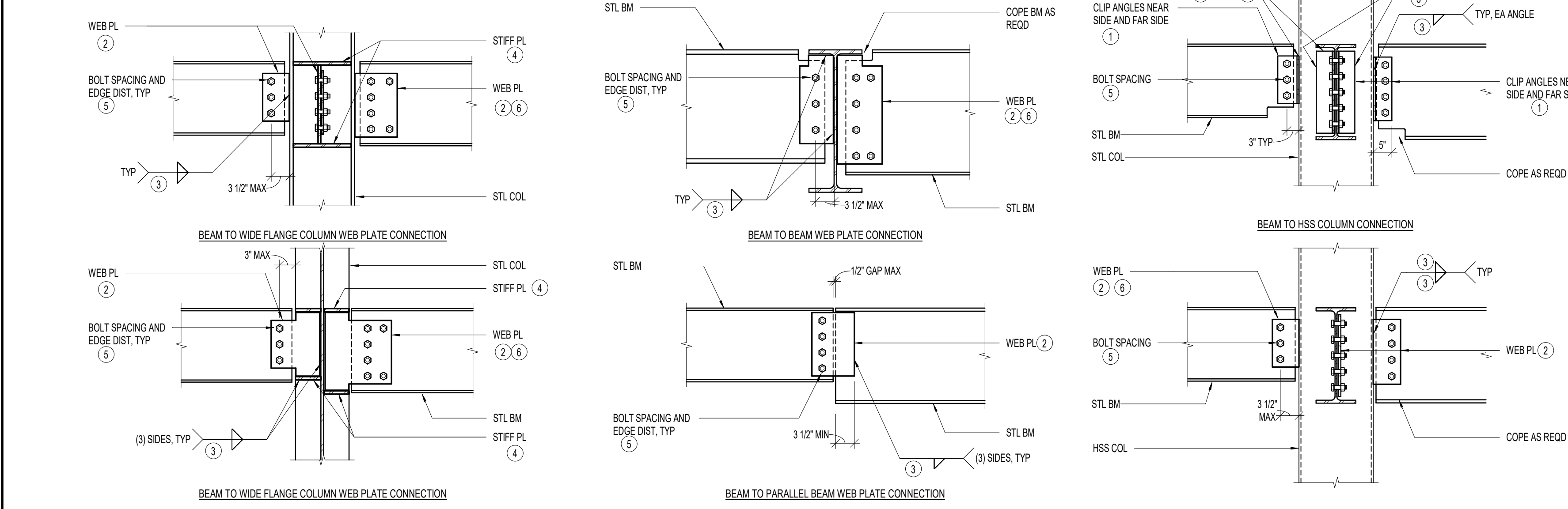


**1 STEEL COLUMN SCHEDULE FOR SEISMIC DESIGN CATEGORIES C THRU F**

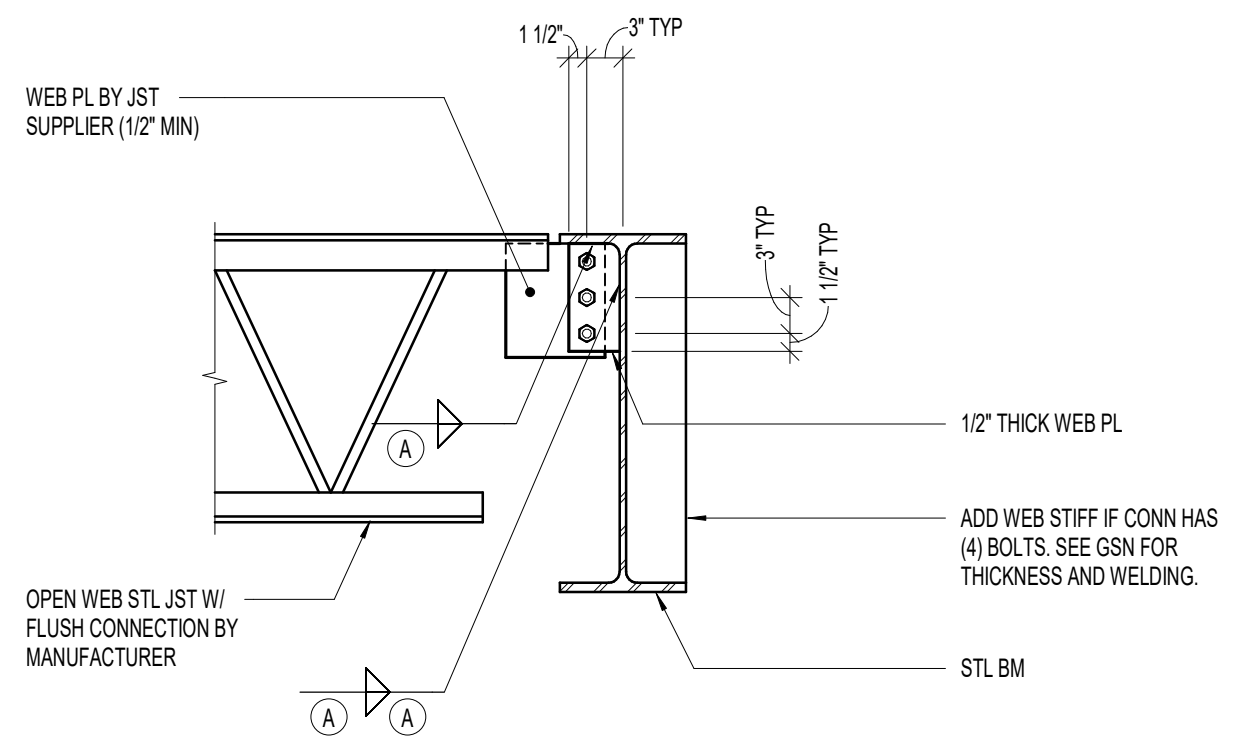
**A-325 BOLT SCHEDULE**

MAXIMUM BEAM SIZE IN EACH BEAM DEPTH GROUP	A-325N BOLTS	
	No. PER BEAM	SIZE
W8	2	7/8"
W10	2	7/8"
W12	3	7/8"
W14	3	7/8"
W16	4	7/8"
W18	5	7/8"
W21	6	7/8"
W24	6	7/8"
W27	7	7/8"

- CLIP ANGLES: 1/4"x3 1/2" THICKNESS SHALL BE EQUAL TO ONE HALF THE BEAM WEB THICKNESS PLUS 1/16" (1/4" MIN). FOR TWO ROWS OF BOLTS OR SKEWED CONNECTIONS, USE BOLT PLATES. WHERE COLUMN WIDTH IS SMALLER THAN THE CONNECTING CLIP ANGLES, ANGLE LESS SHALL BE REDUCED TO MATCH WIDTH OF COLUMN.
- BEAM WEB CONNECTION PLATE THICKNESS EQUALS 3/8" MINIMUM THICK FOR W8 BEAMS OR SMALLER, 1/2" MINIMUM THICK FOR W10 BEAMS OR LARGER, 3/4" MINIMUM THICK FOR BEAMS WITH WEB GREATER THAN 1" THICK.
- FILLET WELDS SHALL BE AS FOLLOWS:  
 1/4" FOR 3/8" PLATES  
 5/16" FOR 1/2" PLATES  
 7/16" FOR 3/4" PLATES
- THICKNESS EQUALS BEAM FLANGE THICKNESS OF BEAM FRAMING INTO COLUMN WEB (3/8" MINIMUM).
- BOLT EDGE DISTANCE SHALL BE 1 1/2" MINIMUM AT ALL EDGES. BOLT SPACING SHALL BE AT 3" BOLT SPACING MAY BE REDUCED TO 3x THE BOLT DIAMETER IF IT IS REQUIRED FOR A SINGLE ROW OF BOLTS. A SINGLE ROW OF BOLTS IS PREFERRED.
- WHEN MORE THAN ONE COLUMN OF BOLTS IS NEEDED, THE FIRST COLUMN SHALL BE COMPLETE WITH THE REMAINDER OF THE BOLTS PLACED IN THE SECOND COLUMN.
- 1/2" PLATE THICKNESS + 5/16"



**2 TYPICAL BOLTED WEB PLATE CONNECTIONS WITH BOLT SCHEDULE (SINGLE SHEAR)**



**FLUSH FRAME OPEN WEB STEEL JOIST TO BEAM CONNECTION SCHEDULE**

LH SIZE	NUMBER OF BOLTS	SIZE OF WELD (A)	LENGTH OF WELD (B)
18LH to 24LH	2	3/16	4
24LH to 32LH	3	3/16	6
36LH to 48LH	4	3/16	9

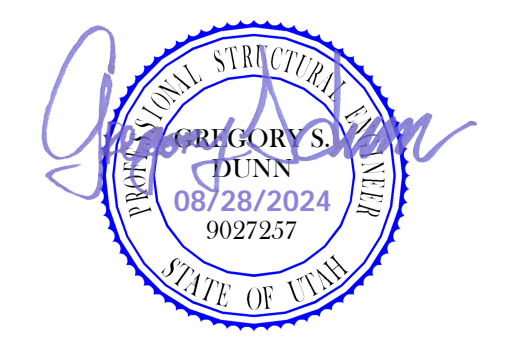
- THE ABOVE SCHEDULE IS BASED ON HIGHEST CATALOG VALUES. IF LOADING EXCEEDS THAT OF THE CATALOG OR IS A SPECIAL JOIST TYPE, THE ABOVE VALUES DO NOT APPLY.
- SCHEDULE VALUES AND CAPACITIES BASED ON 7/8" A325 BOLTS.
- CONTRACTOR TO COORDINATE CONNECTION BETWEEN JOIST SUPPLIER AND STEEL SUPPLIER.

**3 TYPICAL FLUSH FRAMED JOIST CONNECTION**

2024-08-26  
BID PACKAGE #1

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**DTC WELDING TECH & FABRICATION**  
**BUILDING**  
 355 SOUTH 650 EAST  
 KAYSVILLE, UT 84037



**STEEL SCHEDULES**  
**SE802.1**

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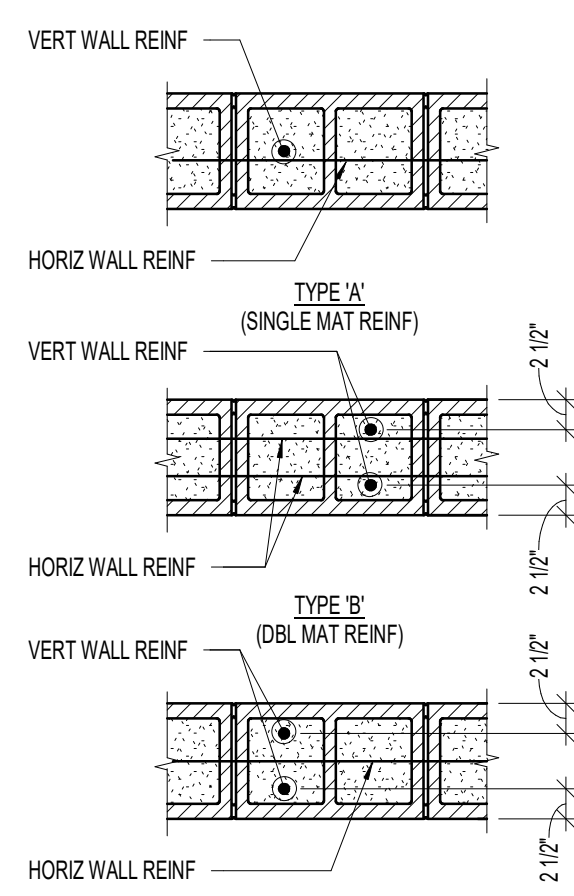


MASONRY WALL SCHEDULE						
MARK	THICKNESS	MATERIALS	SOLID GROUT	REINFORCING		
				VERTICAL	HORIZONTAL	TYPE JOINT REINF
MW-08	8"	CMU	NO	SEE MAS WALL ELEV	SEE MAS WALL ELEV	A NO

MASONRY WALL NOTES

- COORDINATE WITH ARCHITECTURAL DRAWINGS, MASONRY WALL FINISHES, TYPES OF MATERIAL, COURSING, ETC.
- DO NOT SOLID GROUT WALLS UNLESS NOTED OTHERWISE.
- ALL MASONRY BELOW GRADE SHALL BE GROUTED SOLID.
- VERTICAL REINFORCING SHALL BE CENTERED IN THE WALL UNLESS NOTED OTHERWISE.
- PROVIDE (1) VERTICAL BAR MINIMUM AT ALL CORNERS AND END OF WALLS.
- HORIZONTAL WALL REINFORCING SHALL BE PLACED BETWEEN VERTICAL MASONRY COLUMN REINFORCING BARS.
- HORIZONTAL WALL REINFORCING SHALL CONTINUE THRU MASONRY LINTELS, WHERE BOTH HORIZONTAL WALL REINFORCING AND LINTEL REINFORCING OCCUR IN THE SAME COURSE, USE THE LARGER REINFORCING.
- HORIZONTAL WALL REINFORCING SPACING SHALL NOT EXCEED 48" IN SPECIAL REINFORCED MASONRY SHEAR WALLS. MAX SPACING OF HORIZONTAL AND VERTICAL BARS SHALL NOT EXCEED THE LESSER OF 48" OR WALL LENGTH / 3, OR WALL HEIGHT / 3.
- MASONRY WALLS NOT DESIGNATED ON THE PLANS SHALL BE REINFORCED AS FOLLOWS:
- IF JOINT REINFORCING IS REQUIRED, PROVIDE 3/16" DIAMETER GALVANIZED LADDER TO TRUSS TYPE REINFORCING.

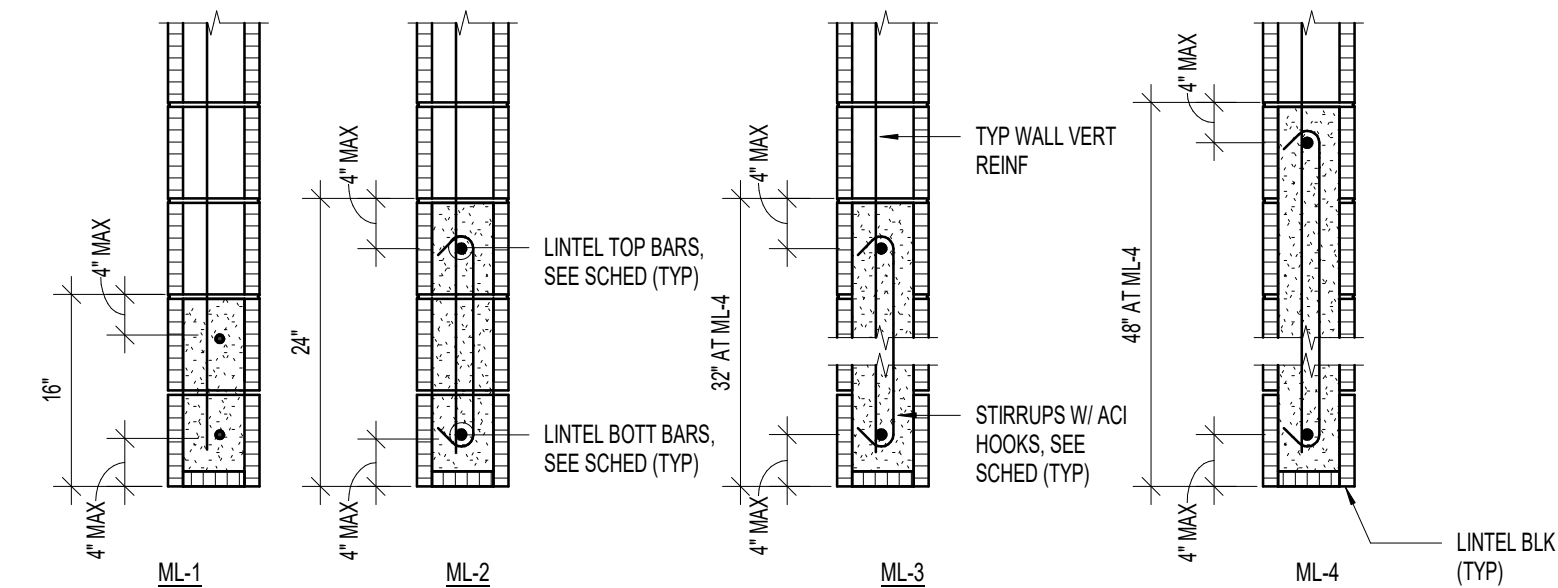
THICKNESS	VERTICAL REINFORCING	HORIZONTAL REINFORCING
8"	#5 BARS AT 32"oc	#4 BARS AT 48"oc
8"	#5 BARS AT 32"oc	#5 BARS AT 48"oc
10"	#5 BARS AT 32"oc	#5 BARS AT 48"oc
12"	#5 BARS AT 32"oc	(2) #5 BARS AT 48"oc



MASONRY LINTEL SCHEDULE					
MARK	LINTEL DEPTH	LINTEL SPAN (MAX)	REINFORCING		COMMENTS
			HORIZONTAL	STIRRUPS	
ML-1	16"	8'-0"	(1) #7BAR CONT T&B	NONE	---
ML-2	24"	8'-0"	(1) #7BAR CONT T&B	#4 AT 8"oc	---
ML-3	32"	10'-0"	(1) #7BAR CONT T&B	#4 AT 8"oc	---
ML-4	48"	16'-0"	(1) #7BAR CONT T&B	#4 AT 8"oc	---

MASONRY LINTEL NOTES

- LINTEL WIDTH AND MATERIAL TYPES SHALL BE THE SAME AS THE WALL IN WHICH THE LINTEL IS CONSTRUCTED.
- GROUT MASONRY LINTELS MONOLITHICALLY WITH THE SUPPORT WALL OR COLUMN AT EA END.
- MASONRY LINTELS ML-1 THRU ML-4 SHALL BE USED OVER OPENINGS IN MASONRY WALLS WHEN A SPECIFIC MASONRY LINTEL IS NOT OTHERWISE SPECIFIED. WHEN A LINTEL IS SPECIFIED ON THE PLANS, THE MAXIMUM SPAN AS NOTED IN THIS SCHEDULE SHALL NOT APPLY. CONSULT THE STRUCTURAL ENGINEER FOR LINTELS NOT SPECIFIED ON THE PLANS WHICH HAVE A SPAN GREATER THAN 10'-0".
- MASONRY LINTELS ML-1 THRU ML-4 SHALL NOT BE LOCATED DIRECTLY BELOW FLOOR OR ROOF BEAMS OR CRIBS UNLESS NOTED OTHERWISE ON THE PLANS. JOISTS SHALL NOT BEAR ON ANY LINTEL LESS THAN 16" DEEP. CONSULT THE STRUCTURAL ENGINEER FOR LINTELS NOT SHOWN ON THE PLANS WHICH ARE LOCATED DIRECTLY BELOW FLOOR OR ROOF BEAMS OR CRIBS.
- EXTEND ALL HORIZONTAL REINFORCING BEYOND THE EDGE OF ALL OPENINGS. IF HORIZONTAL REINFORCING CANNOT EXTEND LAP SPlice LENGTH BEYOND EDGE OF OPENING, PROVIDE 90° STANDARD HOOK.
- SPlice TOP BARS AT MID-SPAN OF LINTEL ONLY AND BOTTOM BARS OVER SUPPORTS ONLY.
- HORIZONTAL WALL REINFORCING SHALL CONTINUE THRU MASONRY LINTELS, WHERE BOTH HORIZONTAL WALL REINFORCING AND LINTEL REINFORCING OCCUR IN THE SAME COURSE, USE THE LARGER REINFORCING.
- DOWEL VERTICAL REINFORCING OF WALL ABOVE LINTEL INTO THE FULL DEPTH OF LINTEL.
- SEE GENERAL STRUCTURAL NOTES FOR ADDITIONAL REQUIREMENTS.



1 MASONRY WALL SCHEDULE

SE803.1 NO SCALE  
TAB-01

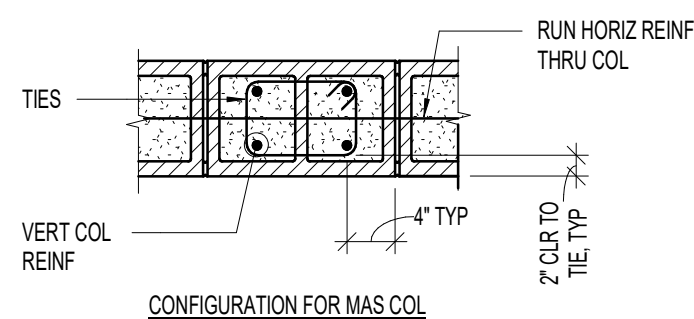
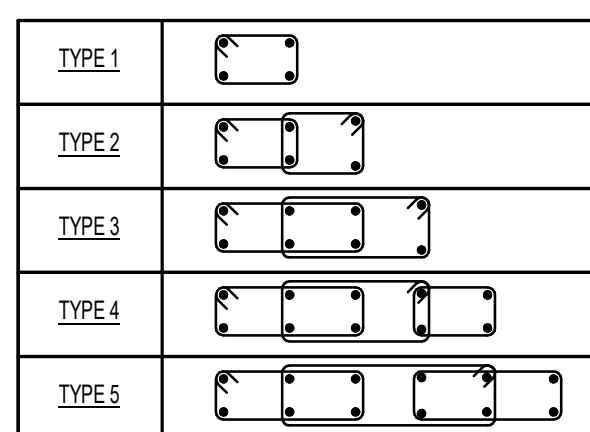
2 MASONRY LINTEL SCHEDULE

SE803.1 NO SCALE  
TAB-02

MASONRY COLUMN SCHEDULE				
MARK	COLUMN SIZE	REINFORCING		
		VERTICAL	TIES	TYPE
MC-1	8" x 16"	(4) #4	#3 AT 8"oc	1
MC-2	8" x 24"	(6) #4	#3 AT 8"oc	2
MC-3	8" x 32"	(8) #4	#3 AT 8"oc	3
MC-4	8" x 40"	(10) #4	#3 AT 8"oc	4
MC-4	8" x 48"	(12) #4	#3 AT 8"oc	5

MASONRY COLUMN NOTES

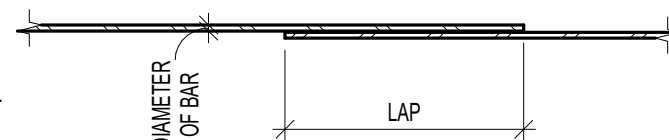
- HORIZONTAL WALL REINFORCEMENT SHALL BE LOCATED TO THE INSIDE OF VERTICAL BARS. THE CENTERLINE OF VERTICAL BARS SHALL BE LOCATED 2 1/2" FROM FACE OF THE MASONRY.
- VERTICAL REINFORCING AND TIES SHALL EXTEND TO FULL WALL HEIGHT, UNO.
- VERTICAL MASONRY COLUMN REINFORCING SHALL EXTEND INTO FOOTING AND TERMINATE WITH A STANDARD 90° HOOK. FOR CONCRETE FOUNDATION WALLS OVER 8'-0" TALL, VERTICAL COLUMN REINFORCING SHALL DOWEL 4" OF MINIMUM INTO THE FOUNDATION WALL.
- IN CONCRETE FOUNDATION WALLS, VERTICAL MASONRY COLUMN REINFORCING SHALL BE TIED WITH #3 TIES AT THE SAME SPACING AND CONFIGURATION AS MASONRY COLUMNS ABOVE.
- #3 TIES MAY BE SUBSTITUTED WITH #2 TIES IN SEISMIC DESIGN CATEGORIES A, B AND C.



MASONRY REINFORCING BAR LAP SPlice SCHEDULE												
REBAR SIZE	SINGLE BAR CENTERED IN CELL											
	THICKNESS		THICKNESS		THICKNESS		THICKNESS		THICKNESS			
	8"	10"	12"	8"	10"	12"	8"	10"	12"	8"	10"	12"
#3	12"	12"	12"	12"	12"	12"	12"	12"	12"	12"	12"	12"
#4	13"	12"	12"	12"	12"	12"	12"	12"	12"	12"	12"	12"
#5	20"	16"	13"	19"	14"	12"	16"	13"	12"	15"	12"	14"
#6	38"	29"	24"	34"	26"	21"	31"	24"	20"	29"	22"	18"
#7	52"	40"	33"	47"	36"	29"	42"	33"	27"	39"	30"	25"
#8	72"	61"	50"	71"	55"	45"	65"	50"	41"	60"	46"	38"
#9	81"	78"	64"	81"	70"	57"	81"	64"	52"	78"	59"	48"
FLUSH WALL PLASTER OR COLUMN, TWO BARS IN EA CELL												
#3	13"	12"	12"	12"	12"	12"	12"	12"	12"	12"	12"	12"
#4	22"	20"	20"	18"	17"	17"	17"	17"	17"	17"	17"	17"
#5	35"	31"	31"	28"	26"	26"	26"	26"	26"	26"	26"	26"
#6	54"	54"	54"	53"	53"	53"	49"	49"	49"	49"	49"	49"
#7	63"	63"	63"	63"	63"	63"	62"	62"	62"	62"	62"	62"
#8	72"	72"	72"	72"	72"	72"	72"	72"	72"	72"	72"	72"
#9	81"	81"	81"	81"	81"	81"	81"	81"	81"	81"	81"	81"

MASONRY REINFORCING BAR LAP SPlice NOTES

- MECHANICAL SPlices ARE REQUIRED FOR BARS IN MASONRY GREATER THAN #8 BARS.
- MECHANICAL SPlices MAY BE USED IN LIEU OF LAP SPlices SHOWN.
- MECHANICAL SPlices SHALL DEVELOP 125% OF SPECIFIED YIELD STRENGTH OF BAR.
- MASONRY DEVELOPMENT LENGTHS SHOWN SHALL BE INCREASED BY 50% WHERE REBAR IS COATED WITH EPOXY. \* BARS MAY BE DIFFICULT TO LAP SPlice DUE TO CONGESTION, COUPLERS RECOMMENDED.



3 MASONRY COLUMN SCHEDULE

SE803.1 NO SCALE  
TAB-04

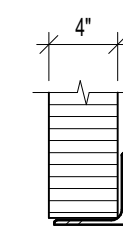
4 MASONRY REINFORCING BAR LAP SPlice SCHEDULE

SE803.1 NO SCALE  
TAB-03

5 STEEL ANGLE LINTEL SCHEDULE (NON-STRUCTURAL)

SE803.1 NO SCALE  
TAB-05

STEEL ANGLE LINTEL SCHEDULE (NON-STRUCTURAL)	
CLEAR OPENING	(VERT x HORIZ x THICKNESS)
UP TO 5'-0"	3 1/2" x 3" x 1/4"
5'-1" TO 7'-0"	3 1/2" x 3 1/2" x 1/4"
7'-1" TO 9'-0"	5" x 3 1/2" x 1/4"
9'-1" TO 10'-0"	5" x 3 1/2" x 5/16"
10'-1" TO 11'-0"	5" x 3 1/2" x 3/8"
11'-1" TO 12'-0"	6" x 4" x 3/8"
12'-1" AND OVER	REQUIRES SPECIAL ANALYSIS



NOTE:

- LINTELS CARRY VENEER ONLY, WHERE FLOORS, ROOFS OF CONCENTRATED LOADS OCCUR, FURTHER ANALYSIS IS NECESSARY.
- PROVIDE 1" OF BEARING EA END FOR EA FOOT OF SPAN. MINIMUM BEARING OF 6" EA SIDE OF OPENING.
- USE THIS SCHEDULE UNLESS NOTED OTHERWISE.
- LINTELS ARE TO BE GALVANIZED.

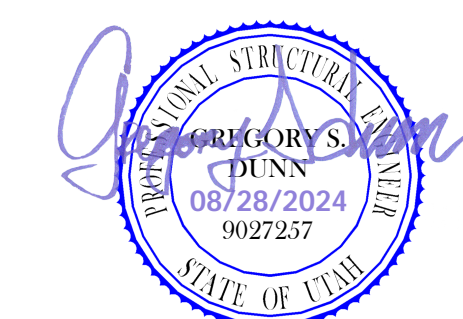


PROJECT 240104

BID PACKAGE #1 2024-08-26

REVISIONS  
NO. DATE DESCRIPTION

**DTC WELDING TECH & FABRICATION**  
**BUILDING**  
 355 SOUTH 650 EAST  
 KAYSVILLE, UT 84037



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BID PACKAGE #1

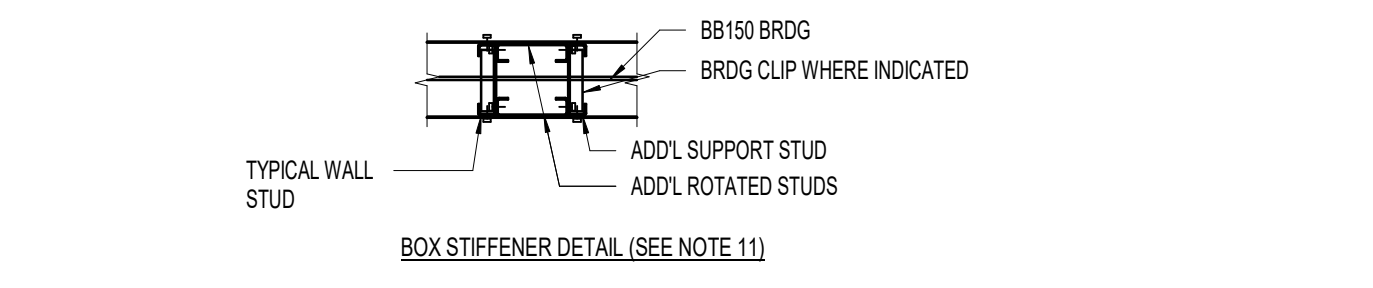
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MASONRY SCHEDULES  
**SE803.1**

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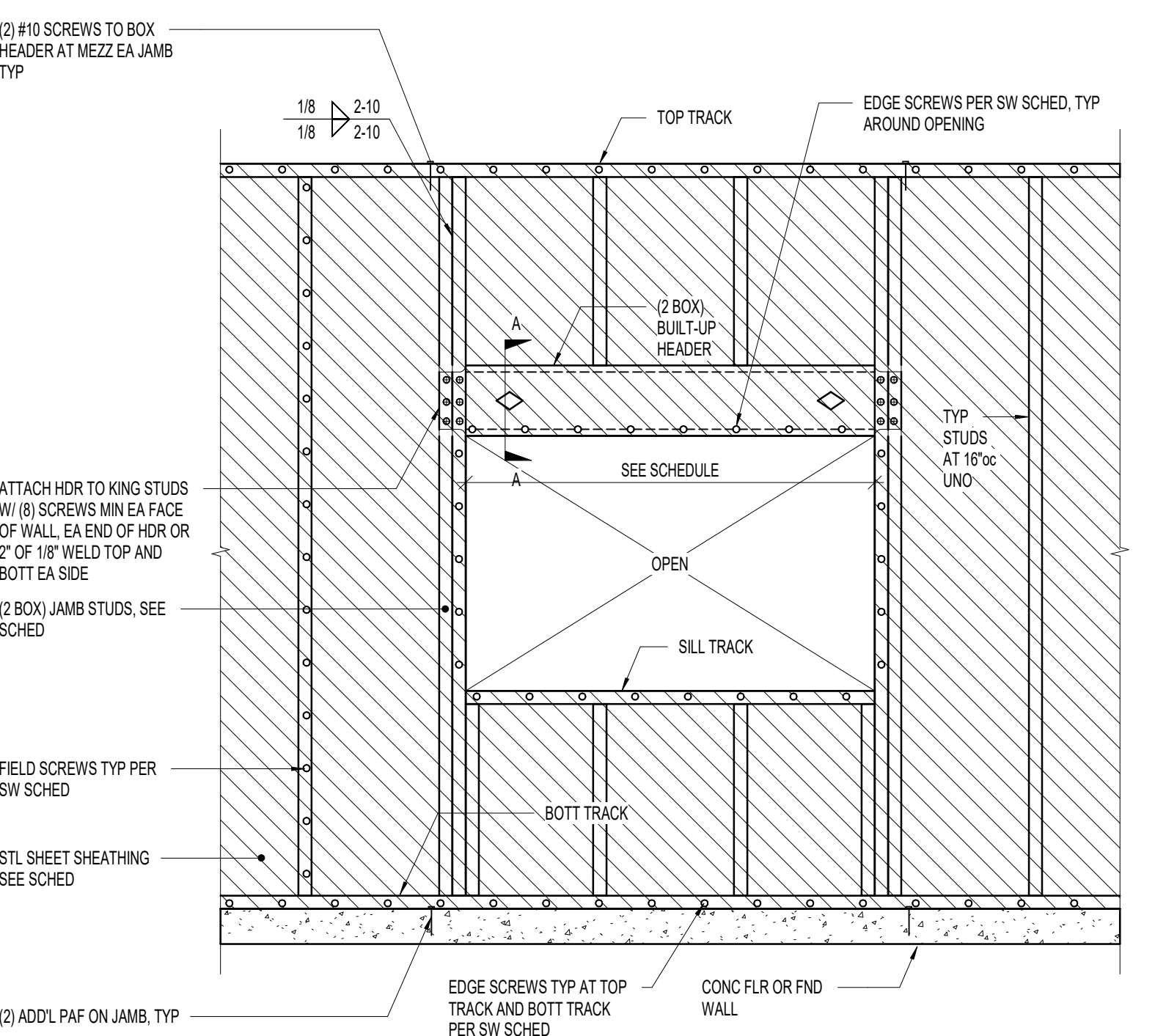
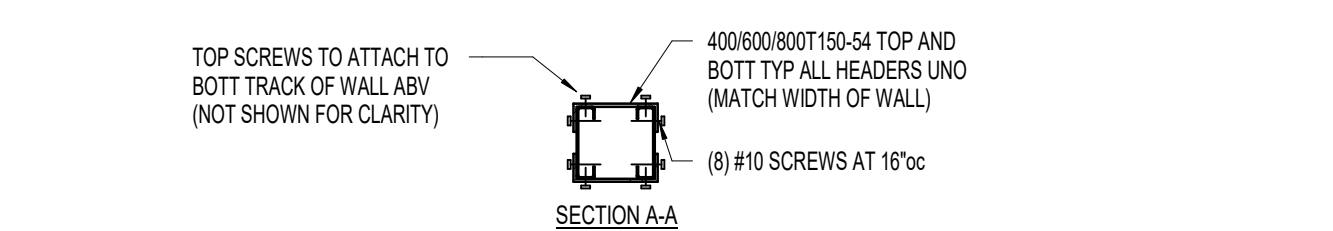
LIGHT GAUGE STUDWALL SCHEDULE					
MARK	SIZE AND SPAN	TOP & BOTT TRACK	LOAD DISTRIBUTION MEMBER	LOCATION (UNO)	BRIDGING CLIP AT EA STUD
SS-6	8'0"X20'-54" AT 16"OC	6007200-54	(2) 6005200-54	ALL WALLS UNO	BCBCB8150

- NOTES:**
- ALL NON-BEARING WALLS 400600S125-33 (33) AT 16"OC TYPICAL UNO.
  - ALL TRACKS SHALL BE 400600T150-54 (50) TYPICAL UNO.
  - SEE SHEAR WALL SCHEDULE FOR SHEAR WALL SHEATHING, STUD THICKNESS, AND ATTACHMENTS.
  - ATTACH ALL TRACKS TO EACH STUD AT EACH STUD FLANGE WITH #10 SCREWS.
  - ATTACH ALL LOAD DISTRIBUTION MEMBERS TO TOP TRACK WITH #10 SCREWS AT 16"OC.
  - ATTACH ALL LOAD DISTRIBUTION MEMBERS TO BOTTOM TRACK WITH (2) #10 SCREWS AT 12"OC TYPICAL AT DECK PERPENDICULAR TO WALL AND (2) #10 SCREWS AT 16"OC TYPICAL AT DECK PARALLEL TO WALL.
  - PROVIDE DECK CLOSURE ELEMENTS AS REQUIRED TO ALLOW FULL DEPTH CONCRETE OVER TOP OF WALL TYPICAL.
  - ATTACH BOTTOM TRACK TO CONCRETE SLAB ON DECK, SUSPENDED SLAB ON GRADE, AND/OR FOUNDATION WALLS WITH (1) 1/2"X3/4" PAF AT 24"OC AT INTERIOR WALLS AND 12"OC AT EXTERIOR WALLS.
  - PROVIDE BR150 BRIDGING AT A MAXIMUM SPACING OF 48"OC TYPICAL.
  - IN ADDITION TO BRIDGING, PROVIDE IN-PLANE BRACING IN ALL LOAD BEARING WALLS. PROVIDE BOX SHAPE AT 10'-0" ON CENTER MAX. (6-9) WALLS SHORTER THAN 10'-0" REQUIRE (1) STIFFENER, WALLS 10'-0" TO 20'-0" LONG REQUIRE (2) STIFFENERS, AND SO ON. (1) USE (2) STUDS (SAME SIZE AS WALL STUDS) 90 DEGREES FROM TYPICAL STUDS, ONE EACH FACE OF WALL. STIFFENERS AND SO ON. (1) USE (2) STUDS PERPENDICULAR STUDS. ATTACH WITH (8) #10 SCREWS AT 16"OC. SEE SECTION A-A BELOW.
  - EDGE DISTANCE OF ALL SCREWS SHALL BE 3/8" MINIMUM.
  - ALL OPENINGS IN UTILITY/ELEVATOR SHAFT WALLS TO BE FRAMED USING 400600US-34 (33), 400600UR-34 (33), AND 400600ES-34 (33) AS REQ'D.



INTERIOR LIGHT GAUGE HEADER/JAMB SCHEDULE				
SPAN LENGTH	HEADER SIZE	JAMB SIZE	JAMB CONNECTOR TOP	HEADER TYPE
0'-0" - 3'-0"	(2) 600S300-54 BOXED	(2) 600S200-43 BACK TO BACK	(2) SIMPSON SCB45.5	SSHDR-1
3'-0" - 6'-0"	(2) 600S300-54 BOXED	(2) 600S200-43 BOXED	(2) SIMPSON SCB45.5	SSHDR-2
6'-0" - 9'-0"	(2) 600S300-54 BOXED	(4) 600S200-43 BACK TO BACK	(2) SIMPSON SCB45.5	SSHDR-3
9'-0" - 10'-0"	(2) 1000S300-54 BOXED	(4) 600S200-43 BACK TO BACK	DIRECT BRG ON (2) BACK TO BACK STUDS	SSHDR-4

- NOTE:**
- ALL HEADERS SHALL BE BUILT WITH (2) STUDS SIZE AS SHOWN IN THE SCHEDULE, AND (2) 400600/800T150-54 TRACKS W/ A DEPTH TO MATCH WALL THICKNESS.
  - PLACE ONE STUD AT EACH FACE OF THE WALL, PLACE ONE TRACK ON TOP AND ONE TRACK ON BOTTOM. SCREW TOGETHER WITH (8) #10 SCREWS AT 16"OC.
  - THE WEBS OF EACH OF THE STUD MEMBERS SHALL EXTEND PAST THE EDGE OF THE OPENING TO THE FAR SIDE OF THE JAMB, EACH SIDE. CORNER FLANGES AND TRACKS AS REQUIRED.
  - ALL JAMBS SHALL BE BUILT WITH (2) 400600 STUDS AS SHOWN IN THE SCHEDULE. WHEN A BOX IS SPECIFIED MAKE THE FLANGES BUTT TOGETHER.
  - WELD JAMBS TOGETHER WITH A 1/8" BY 2' LONG WELD AT 12"OC EACH SIDE.
  - JAMBS SHALL EXTEND FULL HEIGHT OF WALL.
  - ATTACH EACH WEB OF EACH HEADER STUD TO EACH FACE OF THE JAMB WITH (8) #10 SCREWS AT EACH END OF THE HEADER.
  - EDGE DISTANCE OF ALL SCREWS SHALL BE 3/8" MINIMUM.
  - BACK TO BACK JAMBS TO BE SCREWED ALONG THEIR WEB WITH #8 SCREWS AT 12"OC.



LIGHT GAUGE STEEL STUD SHEARWALL SCHEDULE (STEEL SHEATHED)					
MARK	SHEATHING THICKNESS	SINGLE OR DOUBLE SHEATHED	EDGE SCREWS	FIELD SCREWS	BOTT TRACK TO SLAB
SW-1	0.027"	DOUBLE	#8 AT 6"OC	#8 AT 12"OC	5/8"Ø THRU BOLT AT 16"OC
SW-2	0.027"	DOUBLE	#8 AT 2"OC	#8 AT 12"OC	5/8"Ø THRU BOLT AT 16"OC

- NOTES:**
- ALL WALL SHEATHING SHALL BE FLAT STEEL PANEL SHEETS CONFORMING TO ASTM A1003 STRUCTURAL GRADE 33 TYPE H WITH THICKNESS AS SHOWN IN THE SCHEDULE. STANDARD WIDTH OF PANELS SHALL BE 4'-0". MINIMUM WIDTH OF ALL PANELS SHALL BE 12".
  - ALL STUDS SHALL BE AT LEAST 1/8" WIDE, 3/12" DEEP AND 43 MILS THICK. ALL TRACKS SHALL BE A MINIMUM OF 1-1/2" WIDE, 3-1/2" DEEP AND 43 MILS THICK. ALL BLOCKING AND STRAPS SHALL BE A MINIMUM OF 1-1/2" WIDE AND 43 MILS THICK.
  - USE ASTM C1513 #10-18 METAL SCREWS. ALL SCREWS SHALL HAVE A MINIMUM OF THREE THREADS EXTENSION ON THE FAR SIDE OF THE CONNECTION. INSTALL SCREWS TIGHT TO THE SURFACE OF THE SHEATHING.
  - ALL PANEL EDGES ARE DESIGNED TO BE LAPPED. AT CONTRACTOR'S OPTION PANELS MAY BE BLOCKED AT JOINTS IN LIEU OF LAPS.
  - PROVIDE FIELD SCREWS AT 12"OC TYPICAL FOR ALL SHEATHED WALLS.
  - PLACE STEEL PANELS IN EITHER HORIZONTAL OR VERTICAL DIRECTION. BUTT ALL JOINTS AT COMMON STUD, STRAP, AND/OR BLOCKING. DO NOT LAP SHEETS.
  - AT WALLS WITH SHEATHING ON EACH FACE OF THE WALL, STAGGER ALL PANEL JOINTS ON ONE FACE OF THE WALL FROM THE PANEL JOINTS ON THE OTHER FACE OF THE WALL, BOTH HORIZONTAL AND VERTICAL.
  - ATTACH ALL BOTTOM PLATES OF WALLS ABOVE TO TOP PLATES OF WALLS BELOW WITH THRU-BOLTS. SIZE AND SPACING AS SHOWN IN THE SCHEDULE.
  - ALL TOP PLATES AT ROOF SHALL BE ATTACHED WITH (2) ROWS OF #10 SCREWS AT EDGE SPACING SHOWN IN THE SCHEDULE.
  - ALL BOTTOM PLATES AT CONCRETE SOLE PLATES SHALL BE ATTACHED TO CONCRETE WALLS AND/OR FOOTINGS WITH CAST IN PLACE ANCHOR BOLTS. SIZE AND SPACING AS SHOWN IN THE SCHEDULE.
  - PROVIDE HOLD-DOWN AT EACH END OF EACH SHEAR WALL. SEE THE TYPICAL SHEAR WALL AND HOLD-DOWN DETAILS. PLACE DOUBLE BACK TO BACK STUDS OF HOLD-DOWNS ADJACENT TO THE JAMB STUDS AT SIDES OF OPENINGS. ENDS OF SHEAR WALLS THAT ARE BOUND BY AN HSS COLUMN DO NOT REQUIRE A HOLD-DOWN PROVIDED SHEATHING IS FASTENED TO THE HSS MEMBER WITH EDGE SCREWS AS INDICATED IN THE SCHEDULE.
  - PROVIDE BR150 BRIDGING AT A MAXIMUM SPACING OF 48"OC TYPICAL. SEE LIGHT GAUGE STEEL STUD WALL SCHEDULE FOR CLIP INFO.
  - FOR BRIDGING SEE TYPICAL BEARING SCHEDULE.
  - FOR HOLD-DOWNS SEE PLAN AND HOLD-DOWN SCHEDULE.
  - BACK TO BACK CHORDS TO BE INTERCONNECTED WITH A SPACING OF 12".
  - SOLE BOLTING AT THE TOP AND THE BOTTOM OF THE WALLS TO BE 5/8"Ø BOLTS WITH 6" EMBED AT 16"OC.

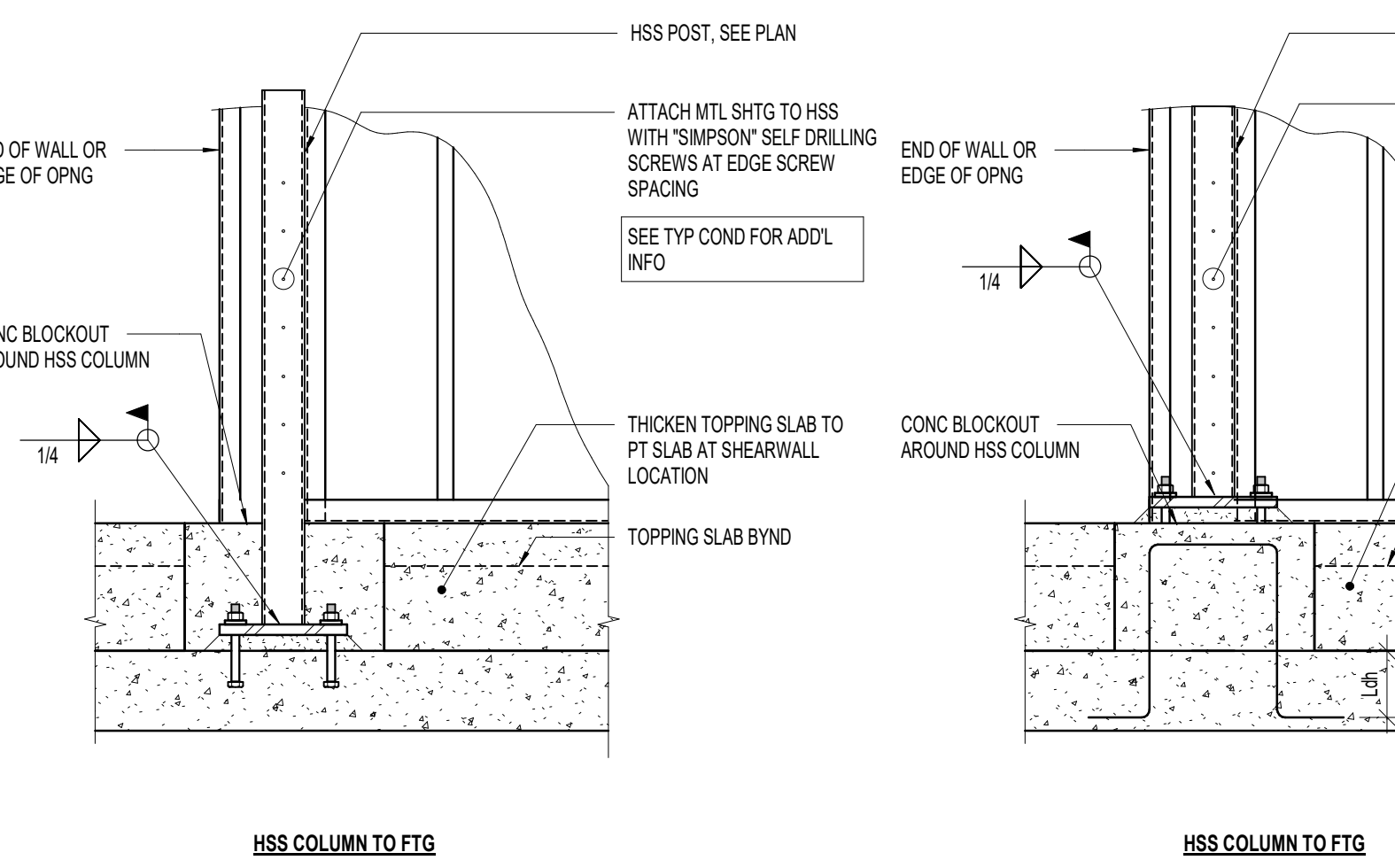
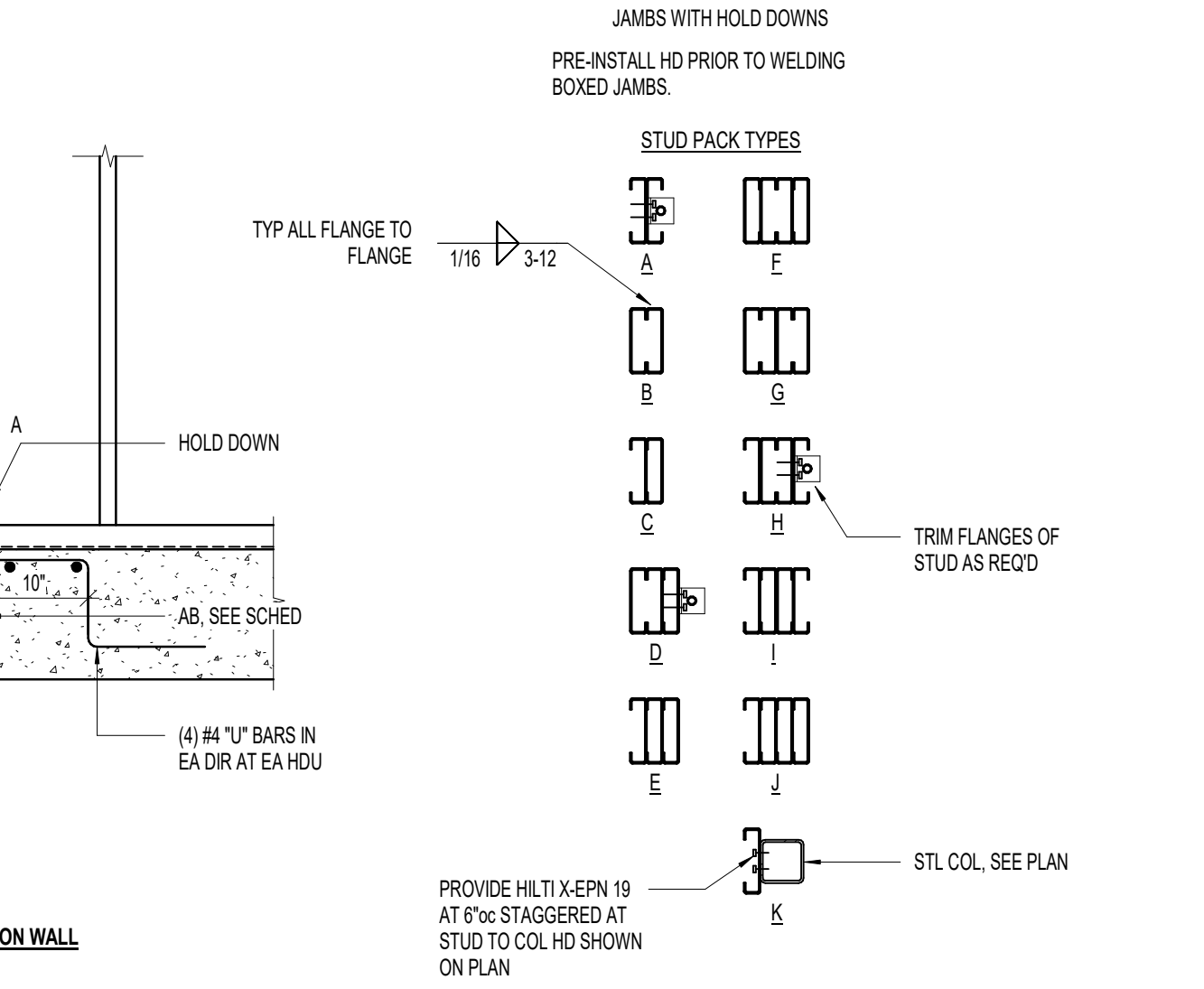
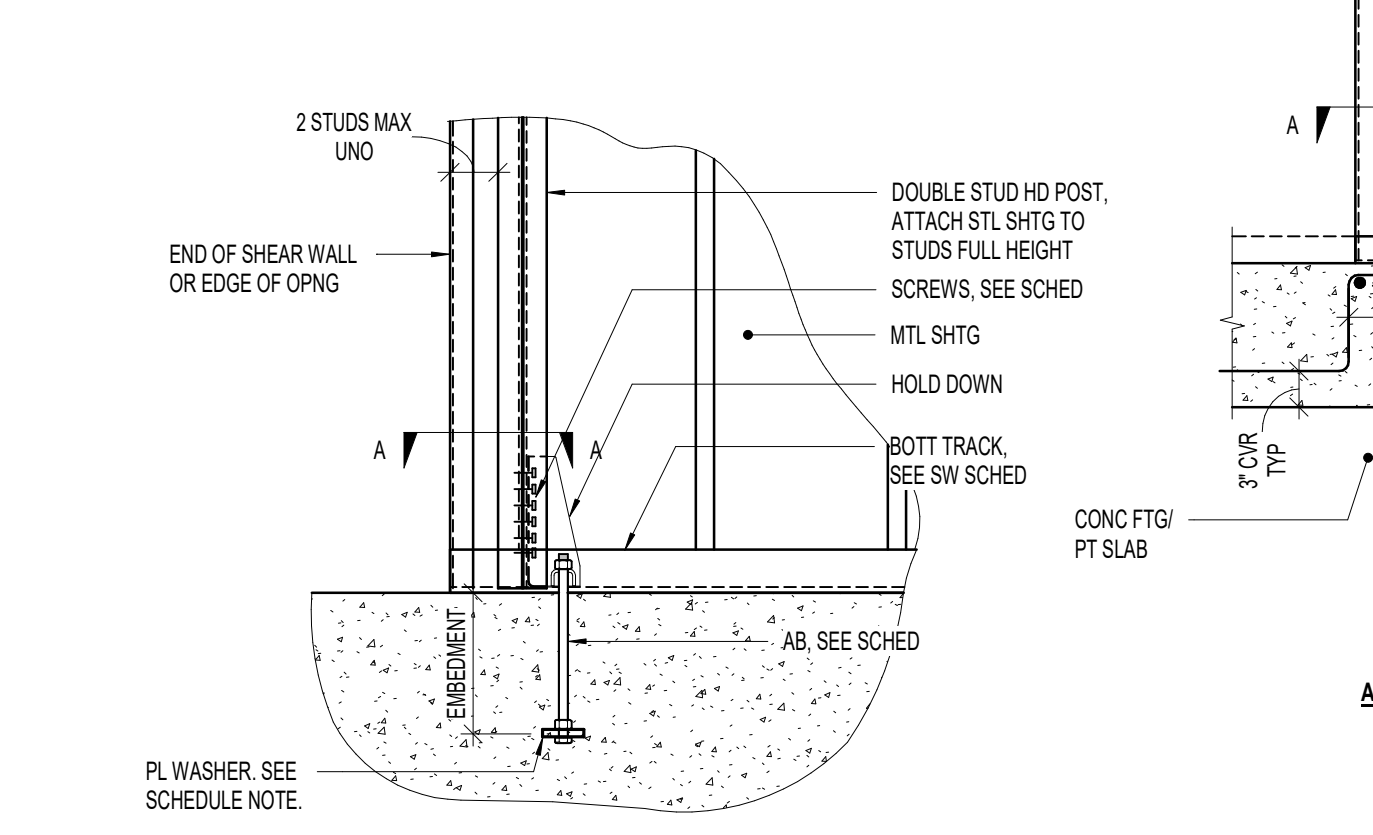
**1** LIGHT GAUGE STEEL STUD WALL SCHEDULE  
SECTION 1 NO SCALE  
18801

**2** LIGHT GAUGE HEADER/JAMB SCHEDULE  
SECTION 2 NO SCALE  
18802

**3** LIGHT GAUGE STEEL STUD SHEARWALL SCHEDULE (STEEL SHEATHED)  
SECTION 3 NO SCALE  
18803

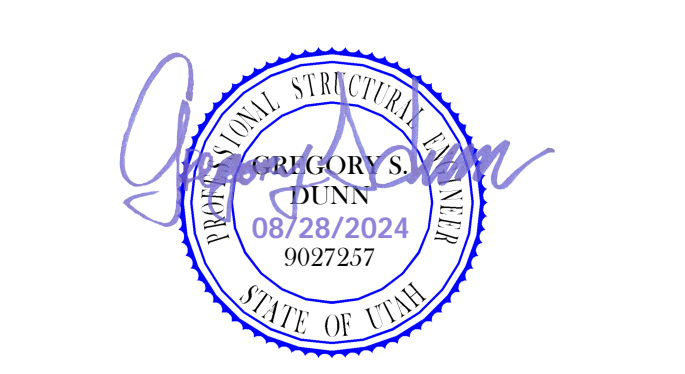
LIGHT GAUGE STEEL HOLD DOWN SCHEDULE					
MARK	HOLD DOWN TYPE	COMP STUD TYPE	SCREWS	ANCHOR BOLT Ø	EMBED DEPTH
HD-1	SHDU6	D	(18) #10	7/8"	9"
HD-2	SHDU9	H	(26) #10	7/8"	9"
HD-3	SHDU11	A	(8) #14	1/2"	9"

- HOLD-DOWN NOTES:**
- ANCHOR BOLTS SHALL INCLUDE A DOUBLE NUT AND 4 x 4 x 1/2" PLATE WASHER. SEE TYP COND FOR ADD'L INFO.
  - INCREASE FOOTING DEPTH WHERE EMBEDMENT LENGTH PLUS 3" IS GREATER THAN FOOTING DEPTH SPECIFIED.
  - HOLD-DOWN COMPRESSION POST SIZE TO MATCH WALL THICKNESS.
  - HOLD-DOWN TYPES ARE SIMPSON STRONG-TIE BRAND.



**4** LIGHT GAUGE STEEL HOLD-DOWN SCHEDULE  
SECTION 4 NO SCALE  
18804

**DTC WELDING TECH & FABRICATION**  
**BUILDING**  
355 SOUTH 650 EAST  
KAYSVILLE, UT 84037

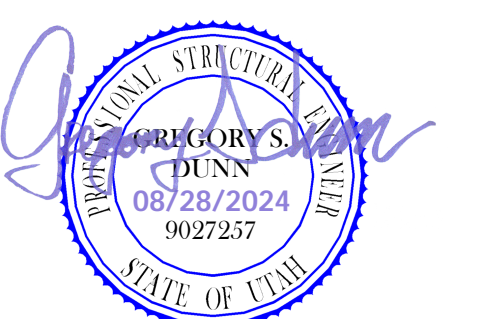


2024-08-26  
BID PACKAGE #1

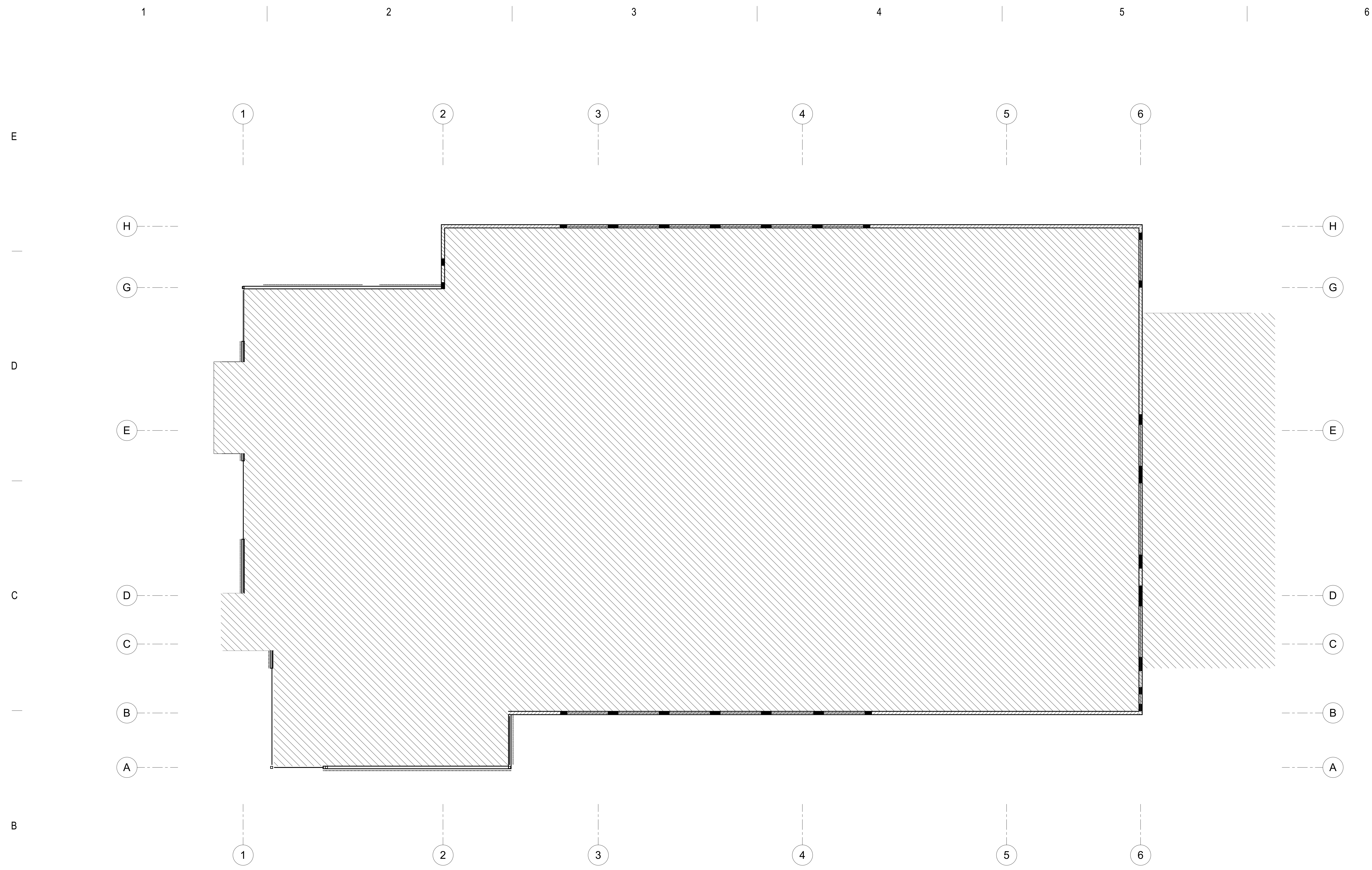
NOTE: THESE STRUCTURAL DRAWINGS ARE BASED ON ARCHITECTURAL DRAWINGS DATED July 23, 2024. DIMENSIONS AND ELEVATIONS, AS THEY RELATE TO THE BUILDING IN GENERAL, IN GRID TO GRID DIMENSIONS OR DECK BEARING ELEVATIONS, ARE SUPPLIED BY THE ARCHITECT. THEY ARE PROVIDED ON THE STRUCTURAL PLANS AND DETAILS FOR THE CONVENIENCE OF THE CONTRACTOR. VERIFY DIMENSIONS AND ELEVATIONS WITH ARCHITECTURAL DRAWINGS.

STEEL STUD SCHEDULES  
**SE804.1**  
(801) 355-5915

**DTC WELDING TECH & FABRICATION  
BUILDING**  
355 SOUTH 650 EAST  
KAYSVILLE, UT 84037

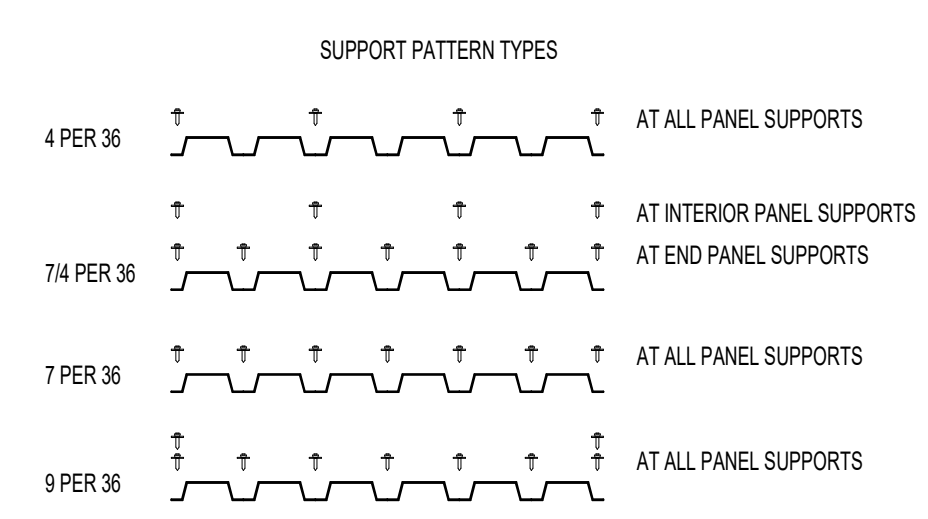


**DIAPHRAGM  
SCHEDULE  
SE805.1**



**1 UPLIFT PLAN**  
SE805.1 NO SCALE

STEEL DECK DIAPHRAGM GAUGE CONNECTION SCHEDULE					
HATCH PATTERN	ALLOWABLE SHEAR	DECK GAGE	SUPPORT CONNECTION MILY/INTEK FASTENERS	SIDE SEAM ATTACHMENT VSC-ZDELTA GRIP SPACING	COMMENTS
	1438 psf	20 ga	7 PER 36"	6"oc	



2024-08-26  
BID PACKAGE #1

NOTE:  
THESE STRUCTURAL DRAWINGS ARE BASED ON ARCHITECTURAL DRAWINGS DATED July 23, 2024. DIMENSIONS AND ELEVATIONS AS THEY RELATE TO THE BUILDING IN GENERAL, IN GRID TO GRID DIMENSIONS OR DECK BEARING ELEVATIONS, ARE SUPPLIED BY THE ARCHITECT. THEY ARE PROVIDED ON THE STRUCTURAL PLANS AND DETAILS FOR THE CONVENIENCE OF THE CONTRACTOR. VERIFY DIMENSIONS AND ELEVATIONS WITH ARCHITECTURAL DRAWINGS.

**DRAWING NOTES**

NOTE #	DESCRIPTION

REVISIONS

NO.	DATE	DESCRIPTION

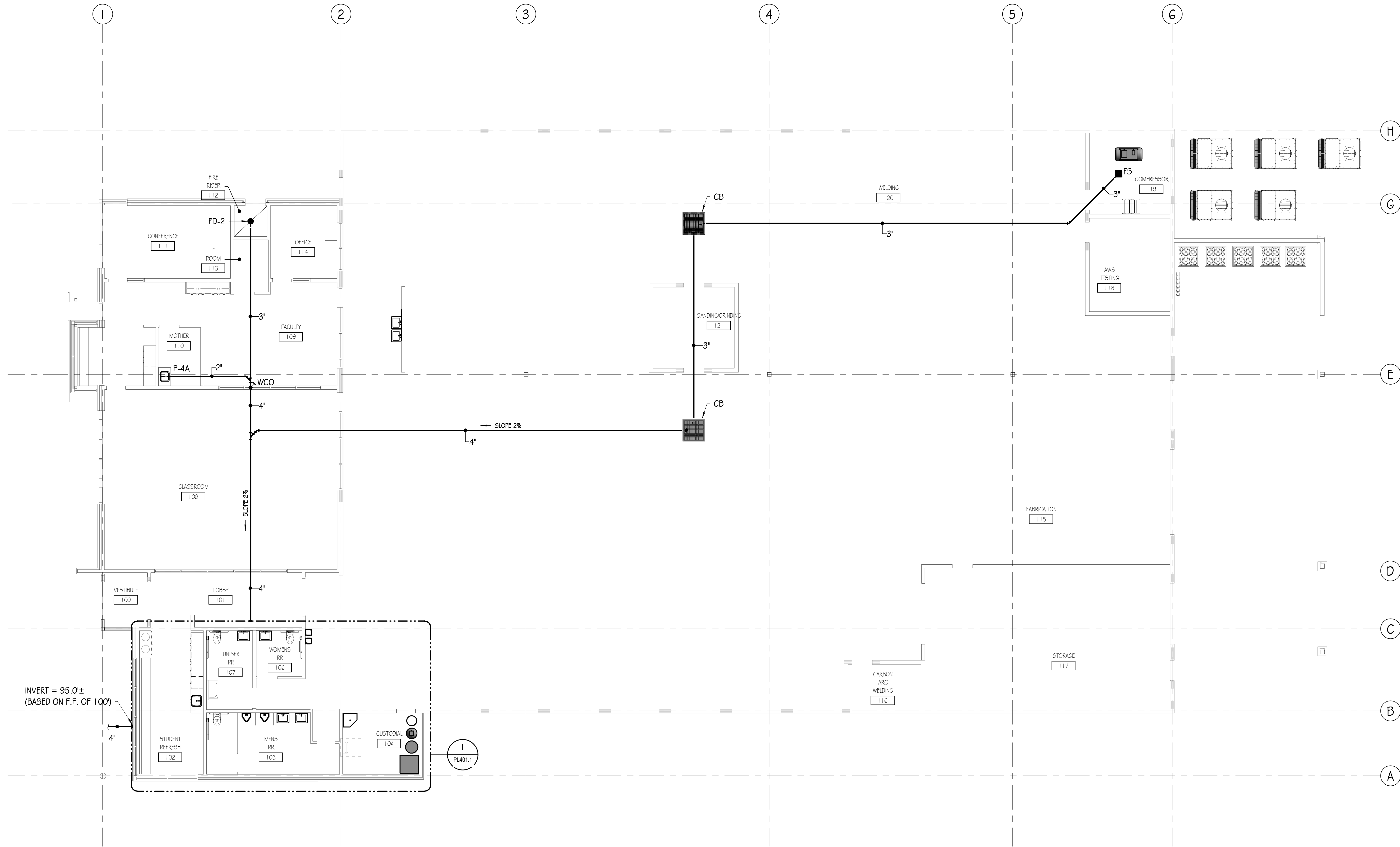
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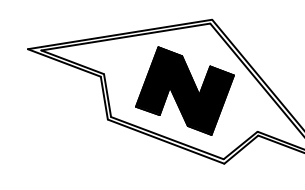
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**PLUMBING PLAN - DRAIN/WASTE/VENT**  
 SCALE: 1/8" = 1'-0"



**DAVIS TECHNICAL COLLEGE  
 WELDING TECHNOLOGY  
 BUILDING**  
 355 SOUTH 650 EAST  
 KAYSVILLE, UT 84037

\*\*\*FOR REFERENCE ONLY\*\*\*

PLUMBING PLAN -  
 DRAIN/WASTE/VENT  
**PL111.1**

**DRAWING NOTES**

NOTE #	DESCRIPTION

PROJECT **24-038**

BID PACKAGE #1 2024-08-26

REVISIONS

NO.	DATE	DESCRIPTION

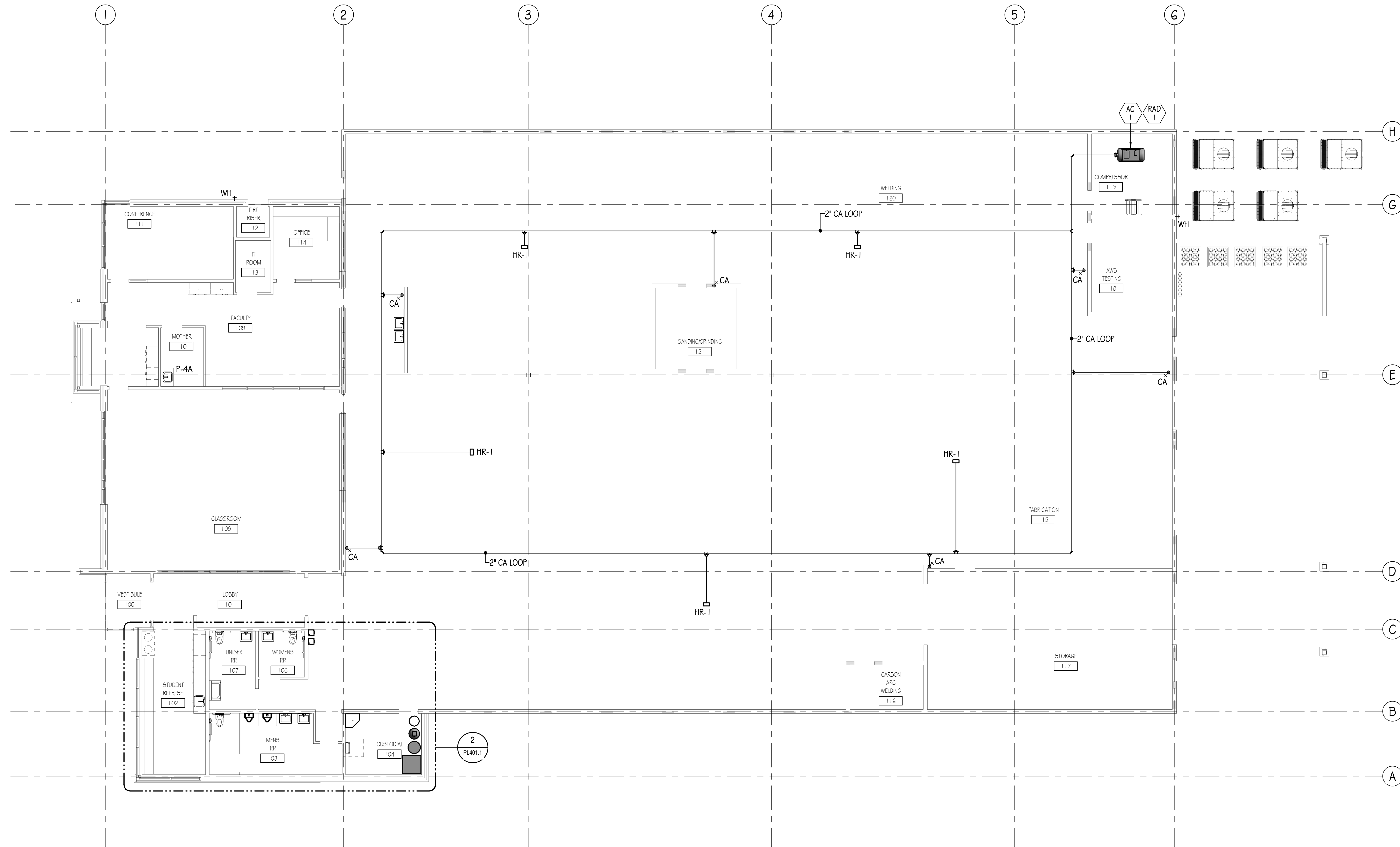
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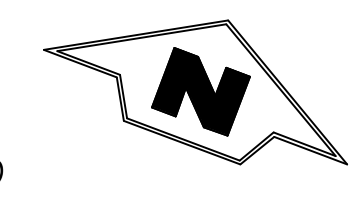
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**PLUMBING PLAN - WATER, GAS & COMPRESSED AIR**  
 PL112 SCALE: 1/8" = 1'-0"



**DAVIS TECHNICAL COLLEGE  
 WELDING TECHNOLOGY  
 BUILDING**  
 355 SOUTH 650 EAST  
 KAYSVILLE, UT 84037

\*\*\*FOR REFERENCE ONLY\*\*\*

PLUMBING PLAN -  
 WATER, GAS &  
 COMPRESSED AIR  
**PL112.1**

**DRAWING NOTES**

NOTE #	DESCRIPTION



PROJECT **24-038**

BID PACKAGE #1 2024-08-26

REVISIONS		
NO.	DATE	DESCRIPTION

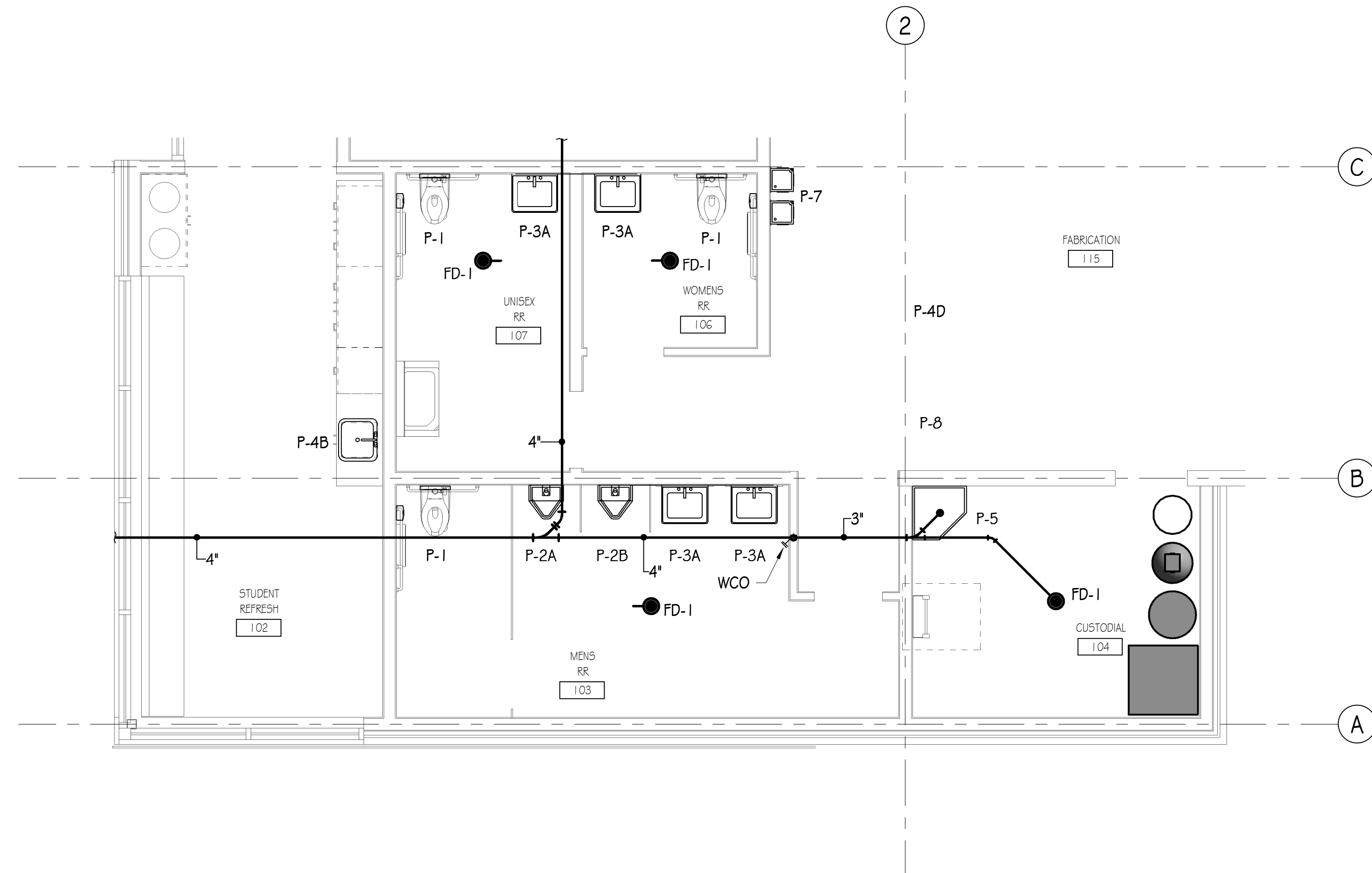
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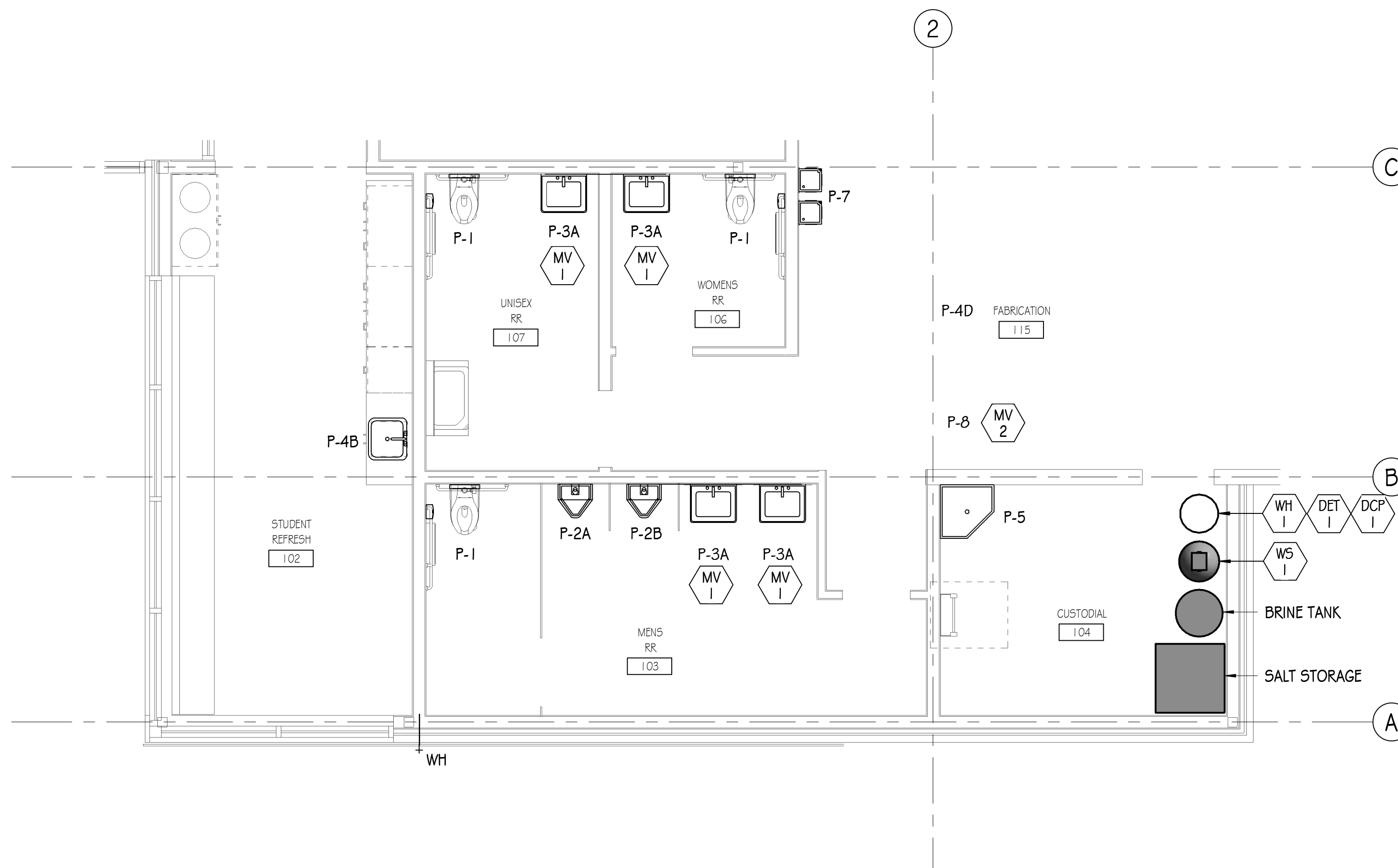
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**1 ENLARGED PLUMBING PLAN - WASTE & VENT**  
 PL401.1 SCALE: 1/4" = 1'-0"  
 5 2.5 0 5 10



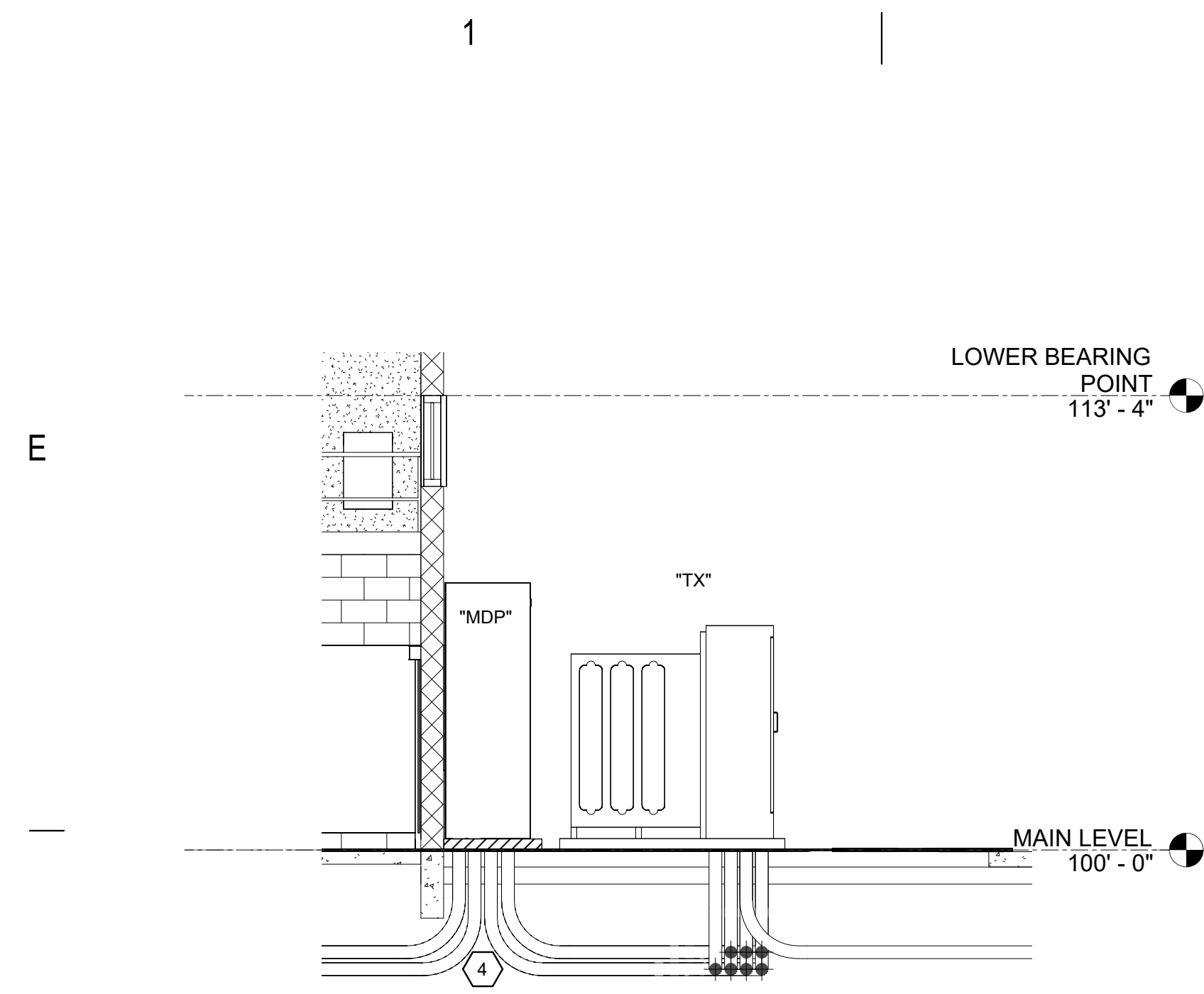
**2 ENLARGED PLUMBING PLAN - WATER**  
 PL401.1 SCALE: 1/4" = 1'-0"  
 5 2.5 0 5 10

**DAVIS TECHNICAL COLLEGE  
 WELDING TECHNOLOGY  
 BUILDING**  
 355 SOUTH 650 EAST  
 KAYSVILLE, UT 84037

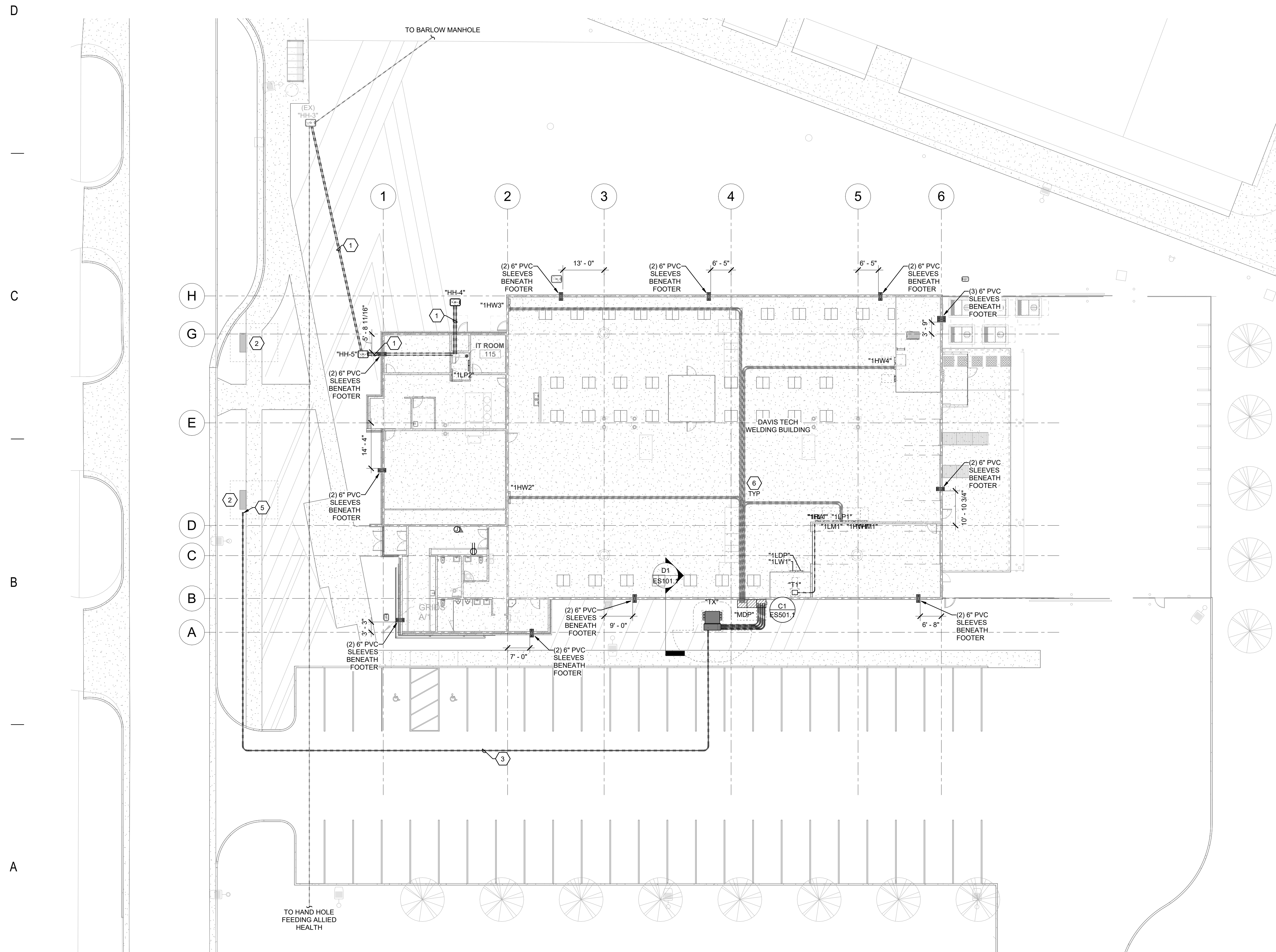
\*\*\*FOR REFERENCE ONLY\*\*\*

ENLARGED  
 PLUMBING PLANS  
**PL401.1**





**D1 CONDUIT MDP SECTION**  
SCALE: 1/4" = 1'-0"



**A1 ELECTRICAL SITE PLAN**  
SCALE: 1/16" = 1'-0"

**GENERAL SHEET NOTES**

- 1 THE ELECTRICAL CONTRACTOR SHALL MEET WITH AND COORDINATE WITH ALL SERVICE PROVIDERS (POWER, COMMUNICATION, CABLE/SATELLITE, ETC.) TO THE FACILITY ON SITE PRIOR TO ANY WORK BEING PERFORMED. CONFIRM WITH EACH SERVICE PROVIDER EXACT LOCATIONS OF EQUIPMENT AND ROUTING. COMPLY WITH ALL SERVICE PROVIDER'S CURRENT STANDARDS AND REQUIREMENTS. PROVIDE THE REQUIRED EQUIPMENT, RACEWAYS, BOXES, CABLE, ETC. AS REQUIRED BY THE SERVICE PROVIDER WHETHER SHOWN ON THE DRAWINGS OR NOT.
- 2 CONTRACTOR IS RESPONSIBLE FOR ALL TRENCHING, BACKFILL, AND COMPACTION ASSOCIATED TO ALL ELECTRICAL UNDERGROUND RACEWAYS AND CABLES. COORDINATE WITH ARCHITECTURAL AND CIVIL DRAWINGS. SEE UNDERGROUND RACEWAY DETAILS FOR REQUIREMENTS FOR EACH TRENCH.
- 3 THE ELECTRICAL CONTRACTOR SHALL HAVE ANY AND ALL CONCRETE POLE BASES AND SLABS REVIEWED BY A STRUCTURAL ENGINEER AND SHALL MODIFY DESIGN PER STRUCTURAL ENGINEER'S AND OR AHJ'S RECOMMENDATIONS.
- 4 THE ELECTRICAL CONTRACTOR IS RESPONSIBLE FOR ALL CONCRETE/ASPHALT CUTTING AND REPLACEMENT OF CONCRETE/ASPHALT TO MATCH EXISTING ASSOCIATED WITH UNDERGROUND RACEWAYS PROVIDED AS PART OF THIS PROJECT.
- 5 REFER TO PLANS FOR CONSTRAINTS ON PHYSICAL DIMENSIONS AND CLEARANCE REQUIREMENTS OF EQUIPMENT. PROVIDE EQUIPMENT DIMENSIONS THAT FALL WITHIN THE CONSTRAINTS OF EACH SPECIFIC LOCATION.
- 6 SERVICE EQUIPMENT SHALL BE LEGIBLY MARKED IN THE FIELD WITH THE MAXIMUM AVAILABLE FAULT CURRENT. VERIFY OR RE-CALCULATE THE AVAILABLE FAULT CURRENT AT THE SERVICE WHERE MODIFICATIONS TO THE ELECTRICAL INSTALLATION OCCUR. PLEASE INCLUDE NOTES IN THE ELECTRICAL DRAWINGS OR SUPPLY CALCULATIONS WHERE APPLICABLE. SEE NEC 110.24 (B).
- 7 ALL UNDERGROUND RACEWAYS SHALL UTILIZE GRADUAL SWEEPS WHERE POSSIBLE. PROVIDE FACTORY LONG SWEEP BENDS ONLY WHERE ABSOLUTELY NECESSARY OR NOTED.
- 8 CONTRACTOR SHALL ADJUST DEPTH OF RACEWAYS DEEPER AS NECESSARY TO AVOID CONFLICTS WITH OTHER UTILITIES AND MAINTAIN A SEPARATION OF NO LESS THAN 1 FOOT FROM ALL OTHER UTILITIES CROSSINGS UNLESS NOTED OTHERWISE.
- 9 ALL ELECTRICAL GEAR AND EQUIPMENT (GENERATOR, TRANSFORMER, SWITCHBOARDS, PANELBOARDS, DISCONNECTS, ENCLOSURES, ETC.) LOCATED OUTDOOR OR EXPOSED TO WEATHER SHALL BE NEMA 3R RATED UNLESS NOTED OTHERWISE.

**SHEET KEYNOTES**

- 1 PROVIDE 2 EA 4" CONDUITS WITH (1) 7 WAY 12.7X10 MM MICRODUCT, (2) WITH 3 EA. 1.25" INNERDUCT IN EACH CONDUIT.
- 2 EXISTING UTILITY MEDIUM VOLTAGE EQUIPMENT TO REMAIN AND BE PRESERVED.
- 3 APPROXIMATE ROUTING OF PRIMARY CONDUIT TO TRANSFORMER.
- 4 DROPPED FOOTING FOR FUTURE ACCESS OF ALL CONDUITS FROM SWITCHBOARD TO EQUIPMENT. COORDINATE WITH STRUCTURAL.
- 5 CONTRACTOR TO PROVIDE CONDUIT 1 FOOT AWAY FROM EXISTING SECTIONALIZER. CONTRACTOR TO COORDINATE WITH KAYSVILLE CITY POWER ONCE COMPLETED. KAYSVILLE CITY POWER TO INSTALL ELBOW INTO SECTIONALIZER.
- 6 HALFTONED RACEWAYS AND EQUIPMENT ARE SHOWN FOR REFERENCE ONLY AND NOT INCLUDED IN BID PACKAGE 1.

**CRSA**

PROJECT **24-038**

BID PACKAGE #1 2024-08-26

REVISIONS

NO.	DATE	DESCRIPTION

**SPECTRUM ENGINEERS**

324 S. State St., Suite 400  
Salt Lake City, UT 84111  
801-328-5151  
www.spectrum-engineers.com  
SE Project # 240296

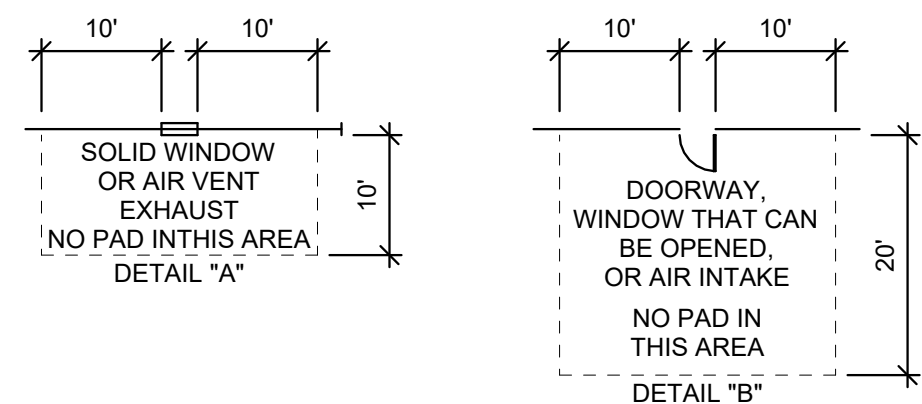
**DTC WELDING TECH & FABRICATION BUILDING**  
355 SOUTH 650 EAST  
KAYSVILLE, UT 84037



ELECTRICAL SITE PLAN  
**ES101.1**  
(801) 355-5915



E



CLEARANCE GENERAL NOTES:

- CLEARANCES: THE FRONT OF THE PAD SHOULD ALWAYS FACE AWAY FROM ADJACENT STRUCTURES AND BE FREE OF OBSTRUCTIONS. AT LEAST 3 FEET MUST SEPARATE THE EDGES OF THE PAD FROM ANY ADJACENT STRUCTURE. THE EDGES OF THE PAD MUST BE AT LEAST 10 FEET FROM ANY COMBUSTIBLE STRUCTURE. IF AN ADJACENT STRUCTURE HAS ANY OVERHANG OR EAVE WITHIN 27 VERTICAL FEET OF THE TOP OF THE PAD, CLEARANCES MUST BE MEASURED FROM THE OUTSIDE OF THE OVERHANG. THE PAD MUST NOT BE PLACED IN AN AREA 10 FEET IN LINE WITH OR 10 FEET TO EITHER SIDE OF ANY WINDOW IN AN ADJACENT STRUCTURE (SEE DETAIL "A"). CLEARANCE FOR A DOOR MUST BE 20 FEET IN LINE WITH IT AND 10 FEET ON THE SIDES (SEE DETAIL "B"). PADS MUST NOT BE PLACED WITHIN 15 FEET OF ANY VALVE OR WITHIN 25 FEET OF ANY PLUMBING OR STORAGE FACILITY CONTAINING FLAMMABLE MATERIAL. NO WALLS, FENCES, OR ANY OTHER OBSTRUCTIONS WILL BE PLACED WITHIN 3 FEET OF THE SIDES OR BACK OF THE PAD, OR WITHIN 10 FEET OF THE FRONT OF THE PAD (SEE DETAIL "C"). THE AREA IN FRONT OF THE PAD MUST HAVE 10 FEET OF CLEAR, LEVEL WORKING AREA FOR MAINTENANCE OF THE TRANSFORMER. THE PAD MAY NOT BE PLACED IN LINE WITH AN AIR INTAKE WITHIN 32 VERTICAL FEET OF THE SURFACE PAD, ALSO VERTICALLY. IT MUST NOT BE PLACED WITHIN 12 FEET OF A DOOR OR WINDOW. VAULTS SHALL BE LOCATED WITHIN 15 FEET OF A GRAVELED OR PAVED SURFACE SUITABLE FOR INCIDENTAL HEAVY TRUCK ACCESS.
- BARRIERS: IF THE TRANSFORMER PAD IS TO BE LOCATED IN AREAS SUBJECT TO VEHICULAR TRAFFIC, (PARKING LOTS, DRIVEWAYS, ETC) CONTACT KAYSVILLE POWER FOR PROTECTIVE BARRIER REQUIREMENTS.
- IF THE TRANSFORMER WILL NOT COVER THE CABLE OPENINGS ON THESE STANDARD PADS, SEAL THE SIDES OF THE CABLE OPENING TO FIT THE TRANSFORMER USING SAKRETE OR COMPARABLE.

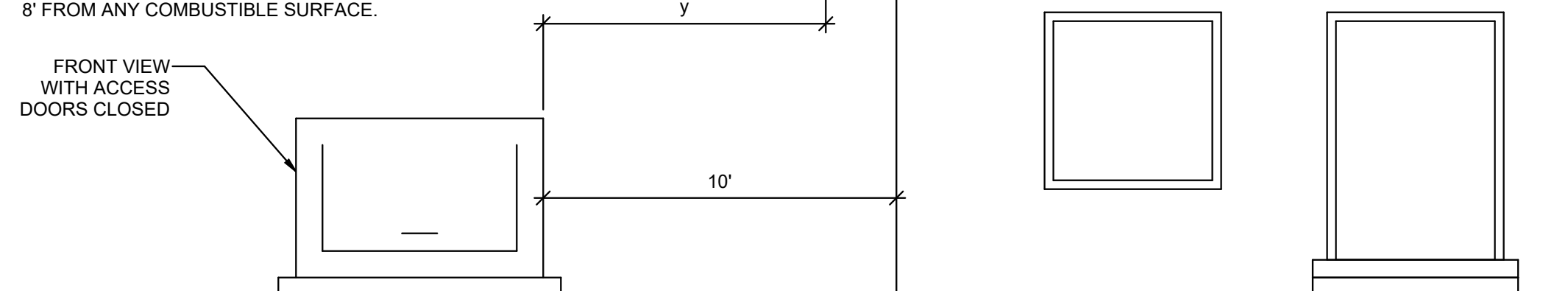
TOP VIEW WITH ACCESS DOORS CLOSED  
DETAIL "C"

MINIMUM DISTANCE REQUIRED FROM PAD:

x = 10 FT. CLEAR AREA IN FRONT OF ANY EQUIPMENT ACCESS DOOR OR OPENING TO ALLOW THE USE OF HOT STICKS. (SEE DIMENSIONS IN DETAIL "C"). LOCATE PADMOUNTED EQUIPMENT WITH ACCESS DOORS AWAY FROM BUILDING WALLS OR OTHER BARRIERS TO ALLOW SAFE WORKING PRACTICES. IF THE EQUIPMENT ACCESS SIDE MUST FACE A WALL, ALLOW 10 FEET FOR WORKING CLEARANCE. NO VEGETATION OR TRIP HAZARDS IN THIS WORK SPACE ARE PERMITTED.)

y = 8 FT FROM ANY STRUCTURE OR ROOF OVERHANG CONSISTING OF COMBUSTIBLE MATERIAL. 3 FT TO NON-COMBUSTIBLE STRUCTURES HAVING NO OPENINGS CLOSER THAN 10 FT.

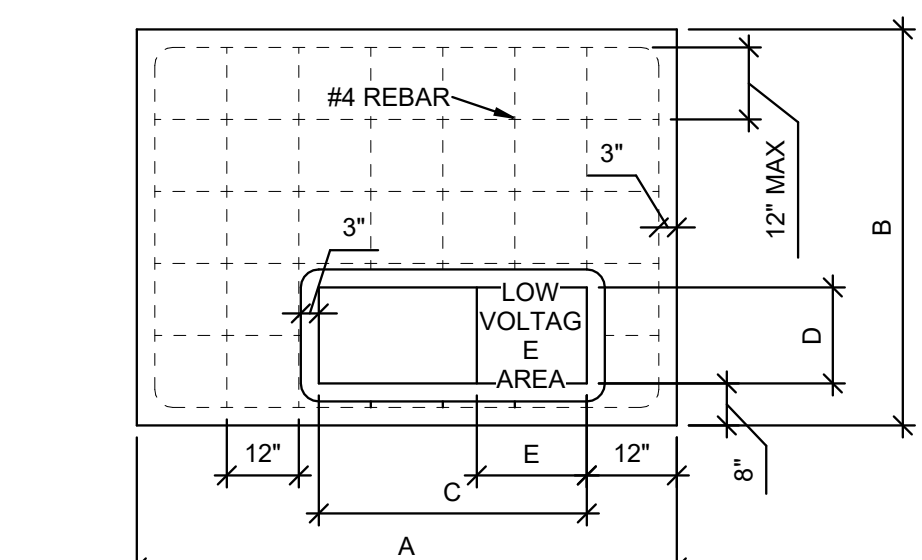
z = 3 FT CLEAR AREA ON NON-ACCESS SIDES OF THE EQUIPMENT TO ALLOW WORK SPACE. (SEE DIMENSIONS IN DETAILS "C"). 6" FROM ANY METALLIC OBJECT INCLUDING THE METERING EQUIPMENT, AND 8" FROM ANY COMBUSTIBLE SURFACE.



D

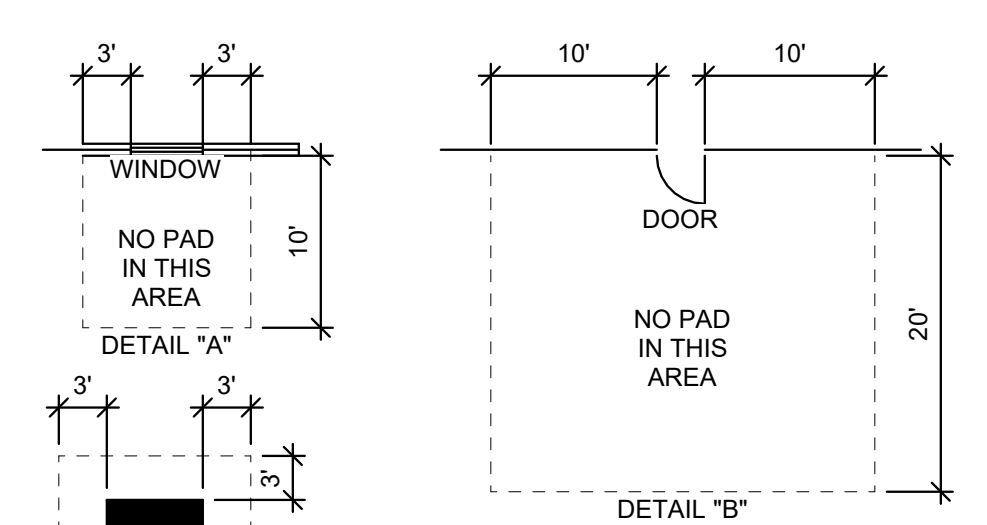
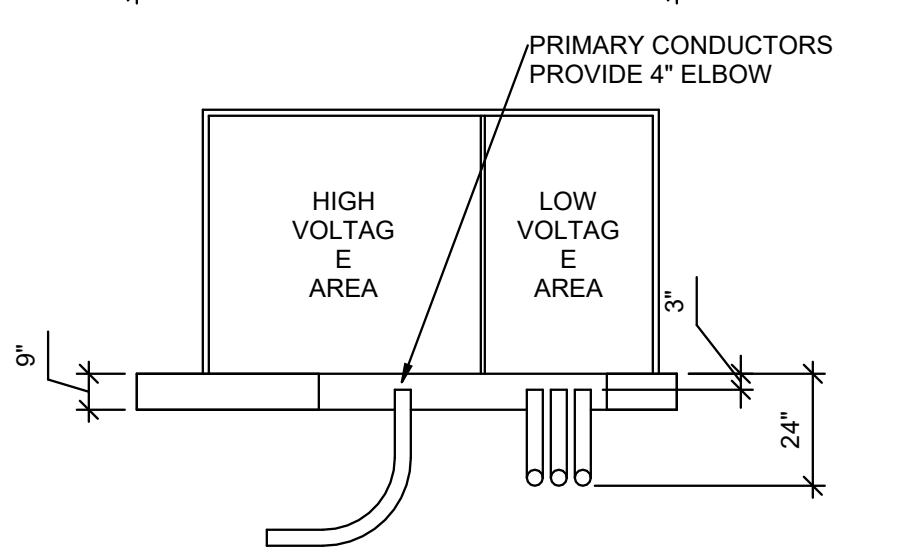
C1 TRANSFORMER CLEARANCE DETAIL

SCALE: NTS



CONTRACTOR GENERAL NOTES:

- SITE PREPARATION: ALL SOIL BENEATH THE PAD SITE MUST BE COMPACTED AND LEVEL PRIOR TO SETTING OR POURING THE PAD TO PREVENT SETTLING.
- CONCRETE: STEEL REINFORCEMENT SHALL BE #4 BARS, PLACED ACCORDING TO THE DRAWING. THE PAD MUST BE POURED AT LEAST SEVEN FULL DAYS PRIOR TO SETTING THE TRANSFORMER. THE FINISHED SURFACE MUST BE COMPLETELY FLAT AND LEVEL. SEE STANDARD 73 036 FOR CONCRETE SPECIFICATIONS.
- PREFABRICATION: THE PAD MAY EITHER BE CONSTRUCTED ON THE SITE OR PREFABRICATED ACCORDING TO SPECIFICATIONS.
- CONDUIT WINDOW LAYOUT: LOW VOLTAGE CONDUITS SHALL BE FORMED AS TIGHTLY AS POSSIBLE AGAINST THE RIGHT SIDE OF THE OPENING AND SHALL IN NO CASE EXTEND FURTHER THAN 20" FROM THE RIGHT SIDE OF THE CONDUIT WINDOW ON THE SMALL PAD OR 30" ON THE LARGE PAD. NO MORE THAN 8 CONDUITS WILL BE USED ON THE LOW VOLTAGE SIDE (NOT INCLUDING THE METERING CONDUIT). DO NOT PUT ANY CONCRETE IN OR UNDER THE CONDUIT WINDOW. USE SOIL TO SEPARATE CONDUITS. BELL ENDS ARE REQUIRED FOR ALL METAL CONDUIT, BUT NOT FOR PLASTIC CONDUIT.
- CLEARANCES: THE FRONT OF THE PAD SHOULD ALWAYS FACE AWAY FROM ADJACENT STRUCTURES AND BE FREE OF OBSTRUCTIONS. AT LEAST 3 FEET MUST SEPARATE THE EDGES OF THE PAD FROM ANY ADJACENT STRUCTURE. THE EDGES OF THE PAD MUST BE AT LEAST 10 FEET FROM ANY COMBUSTIBLE STRUCTURE. IF AN ADJACENT STRUCTURE HAS ANY OVERHANG OR EAVE WITHIN 27 VERTICAL FEET OF THE TOP OF THE PAD, CLEARANCES MUST BE MEASURED FROM THE OUTSIDE OF THE OVERHANG. THE PAD MUST NOT BE PLACED IN AN AREA 10 FEET IN LINE WITH OR 3 FEET TO EITHER SIDE OF ANY WINDOW IN AN ADJACENT STRUCTURE (SEE DETAIL "A"). CLEARANCE FOR A DOOR MUST BE 20 FEET IN LINE WITH IT AND 10 FEET ON THE SIDES (SEE DETAIL "B"). PADS MUST NOT BE PLACED WITHIN 15 FEET OF ANY VALVE OR WITHIN 20 FEET OF ANY PLUMBING OR STORAGE FACILITY CONTAINING FLAMMABLE MATERIAL. NO WALLS, FENCES, OR ANY OTHER OBSTRUCTIONS WILL BE PLACED WITHIN 3 FEET OF THE SIDES OR BACK OF THE PAD, OR WITHIN 10 FEET OF THE FRONT OF THE PAD (SEE DETAIL "C"). THE AREA IN FRONT OF THE PAD MUST HAVE 10 FEET OF CLEAR, LEVEL WORKING AREA FOR MAINTENANCE OF THE TRANSFORMER. THE PAD MAY NOT BE PLACED IN LINE WITH AN AIR INTAKE WITHIN 32 VERTICAL FEET OF THE SURFACE PAD, ALSO VERTICALLY. IT MUST NOT BE PLACED WITHIN 12 FEET OF A DOOR OR WINDOW.
- BARRIERS: IF THE TRANSFORMER PAD IS TO BE LOCATED IN AREAS SUBJECT TO VEHICULAR TRAFFIC, (PARKING LOTS, DRIVEWAYS, ETC) CONTACT UTAH POWER & LIGHT FOR PROTECTIVE BARRIER REQUIREMENTS.
- IF THE TRANSFORMER WILL NOT COVER THE CABLE OPENINGS ON THESE STANDARD PADS, SEAL THE SIDES OF THE CABLE OPENING TO FIT THE TRANSFORMER USING SAKRETE OR COMPARABLE.



TRANSFORMER PAD DIMENSION CHART				
TRANSFORMER RATING	A	B	C	E
75-500 KVA	96"	78"	48"	15"
750-2500 KVA	100"	105"	60"	30"

A

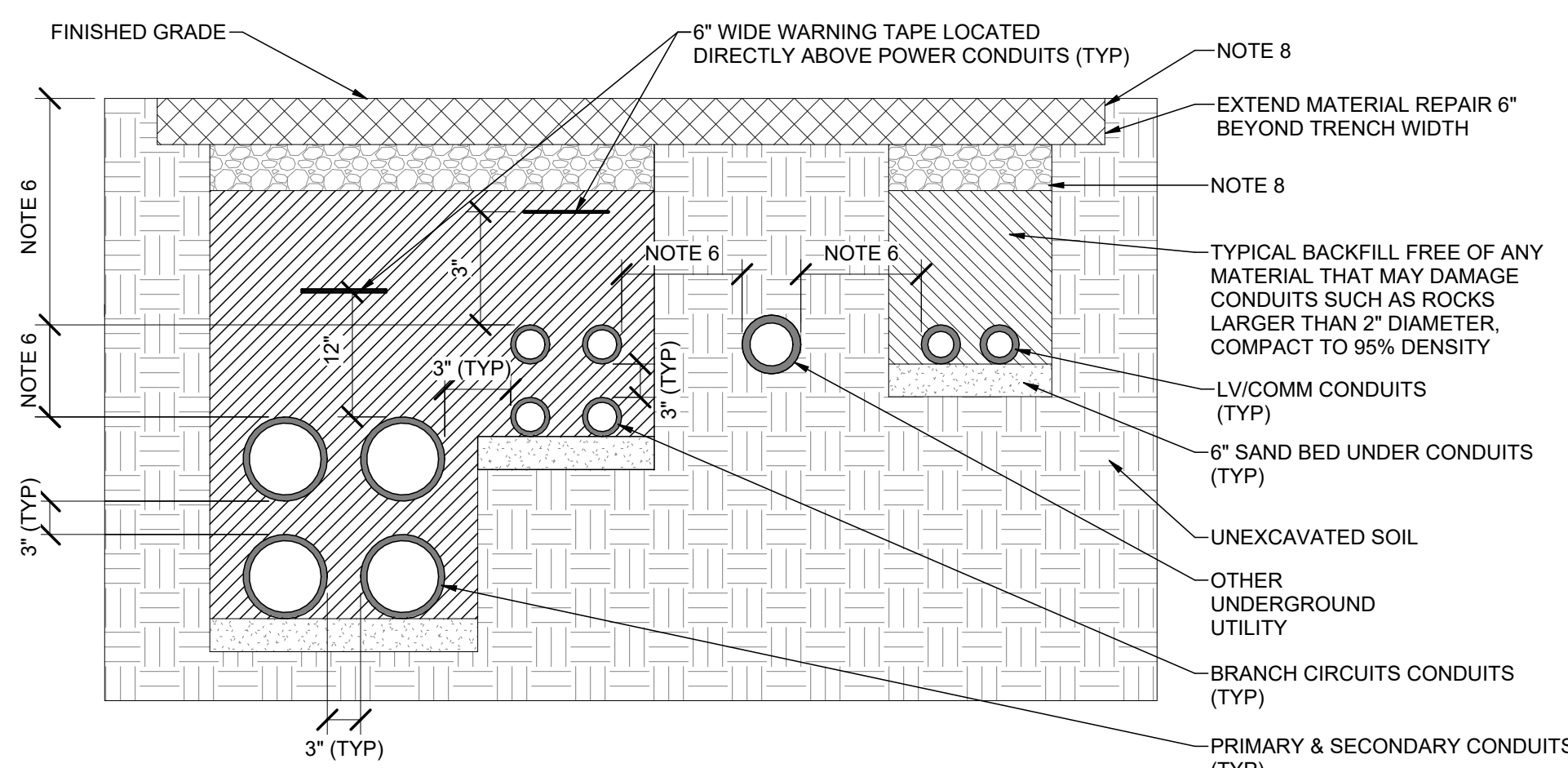
A1 TRANSFORMER PAD DETAIL

SCALE: NTS

B102024.4 (02.07.24)

A3 TYPICAL POWER AND TELECOM CONDUIT DIRECT BURY DETAIL

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



NOTES:

- INSTALL CONDUITS PER LOCAL UTILITY REQUIREMENTS AND NEC.
- ALL BENDS SHALL BE LARGE RADIUS.
- PROVIDE WIDE SWEEP FIBERGLASS ELBOWS FOR UTILITY POWER CONDUITS.
- ALL ABOVEGROUND CONDUIT IN AREAS WHERE DAMAGE MAY OCCUR, ALL STUBUPS AND THE FIRST 10' UNDERGROUND SHALL BE PVC WRAPPED RMC. ALL OTHER UNDERGROUND CONDUIT SHALL BE PVC SCH 40.
- PROVIDE 200-LB POLYPROPYLENE PULL ROPE WITH MEASUREMENT MARKS IN EMPTY CONDUITS.
- TYPICAL DEPTHS UNLESS NOTED OTHERWISE: PRIMARY AND SECONDARY POWER = 36" MIN DEPTH; BRANCH CIRCUITS & LV/COMM = 24" MIN DEPTH.
- MAINTAIN UTILITY SEPARATION AS SHOWN BELOW UNLESS NOTED OTHERWISE. FOR ALL OTHER UTILITIES NOT SHOWN, MAINTAIN A MINIMUM 18" CLEARANCE. UTILIZE VERTICAL MEASUREMENT WHEN CROSSING UTILITIES.
- REPAIR EXISTING ASPHALT OR SURFACE REFER TO CIVIL SPECIFICATIONS, WHERE SPECIFICATIONS DO NOT DEFINE CONTRACTOR SHALL REPAIR TO MATCH EXISTING CONDITIONS OR REQUIREMENTS BELOW, WHICHEVER IS GREATER.

- TURF/PLANTER/LANDSCAPE REPAIR  
- TURF/PLANTER/LANDSCAPE  
- 12" TOPSOIL
- SANITARY SEWER & NON-WATER  
- 60" HORIZONTALLY  
- 18" VERTICALLY
- WATER  
- 36" HORIZONTALLY  
- 18" VERTICALLY
- STORM DRAIN  
- 60" HORIZONTALLY  
- 18" VERTICALLY
- LOW PRESSURE GAS LINE  
- 36" HORIZONTALLY  
- 18" VERTICALLY
- HIGH PRESSURE GAS LINE  
- 0-600V - 34" VERTICALLY  
- 600V - 30" VERTICALLY  
- 600V - 22,000V - 30" VERTICALLY  
- 22,000V - 40,000V - 36" VERTICALLY
- TELECOM & LOW VOLTAGE  
- 12" HORIZONTALLY  
- 12" VERTICALLY

- CONCRETE REPAIR  
- 5" CEMENT CONCRETE  
- 4" UNTREATED BASE COURSE  
COMPACT TO 95% MODIFIED PROCTOR
- ASPHALT REPAIR  
- 3" STANDARD ASPHALT  
- 4" UNTREATED BASE COURSE  
COMPACT TO 95% MODIFIED PROCTOR
- ASPHALT REPAIR  
- 5" PIT RUN GRAVE COMPACT TO 95% MODIFIED PROCTOR  
- 8" PIT RUN GRAVE COMPACT TO 95% MODIFIED PROCTOR

GENERAL SHEET NOTES

- THE ELECTRICAL CONTRACTOR SHALL MEET WITH AND COORDINATE WITH ALL SERVICE PROVIDERS (POWER, COMMUNICATION, CABLE/SATELLITE, ETC.) TO THE FACILITY ON SITE PRIOR TO ANY WORK BEING PERFORMED. CONFIRM WITH EACH SERVICE PROVIDER EXACT LOCATIONS OF EQUIPMENT AND ROUTING. COMPLY WITH ALL SERVICE PROVIDER'S CURRENT STANDARDS AND REQUIREMENTS. PROVIDE THE REQUIRED EQUIPMENT, RACEWAYS, BOXES, CABLE, ETC. AS REQUIRED BY THE SERVICE PROVIDER WHETHER SHOWN ON THE DRAWINGS OR NOT.
- CONTRACTOR IS RESPONSIBLE FOR ALL TRENCHING, BACKFILL, AND COMPACTION ASSOCIATED TO ALL ELECTRICAL UNDERGROUND RACEWAYS AND CABLES. COORDINATE WITH ARCHITECTURAL AND CIVIL DRAWINGS. SEE UNDERGROUND RACEWAY DETAILS FOR REQUIREMENTS FOR EACH TRENCH.
- THE ELECTRICAL CONTRACTOR SHALL HAVE ANY AND ALL CONCRETE POLE BASES AND SLABS REVIEWED BY A STRUCTURAL ENGINEER AND SHALL MODIFY DESIGN PER STRUCTURAL ENGINEER'S AND OR AHJ'S RECOMMENDATIONS.
- THE ELECTRICAL CONTRACTOR IS RESPONSIBLE FOR ALL CONCRETE/ASPHALT CUTTING AND REPLACEMENT OF CONCRETE/ASPHALT TO MATCH EXISTING ASSOCIATED WITH UNDERGROUND RACEWAYS PROVIDED AS PART OF THIS PROJECT.
- REFER TO PLANS FOR CONSTRAINTS ON PHYSICAL DIMENSIONS AND CLEARANCE REQUIREMENTS OF EQUIPMENT. PROVIDE EQUIPMENT DIMENSIONS THAT FALL WITHIN THE CONSTRAINTS OF EACH SPECIFIC LOCATION.
- SERVICE EQUIPMENT SHALL BE LEGIBLY MARKED IN THE FIELD WITH THE MAXIMUM AVAILABLE FAULT CURRENT. VERIFY OR RE-CALCULATE THE AVAILABLE FAULT CURRENT AT THE SERVICE WHERE MODIFICATIONS TO THE ELECTRICAL INSTALLATION OCCUR. PLEASE INCLUDE NOTES IN THE ELECTRICAL DRAWINGS OR SUPPLY CALCULATIONS WHERE APPLICABLE. SEE NEC 110.24 (B).
- ALL UNDERGROUND RACEWAYS SHALL UTILIZE GRADUAL SWEEPS WHERE POSSIBLE. PROVIDE FACTORY LONG SWEEP BENDS ONLY WHERE ABSOLUTELY NECESSARY OR NOTED.
- CONTRACTOR SHALL ADJUST DEPTH OF RACEWAYS DEEPER AS NECESSARY TO AVOID CONFLICTS WITH OTHER UTILITIES AND MAINTAIN A SEPARATION OF NO LESS THAN 1 FOOT FROM ALL OTHER UTILITIES CROSSINGS UNLESS NOTED OTHERWISE.
- ALL ELECTRICAL GEAR AND EQUIPMENT (GENERATOR, TRANSFORMER, SWITCHBOARDS, PANELBOARDS, DISCONNECTS, ENCLOSURES, ETC.) LOCATED OUTDOOR OR EXPOSED TO WEATHER SHALL BE NEMA 3R RATED UNLESS NOTED OTHERWISE.



PROJECT 24-038

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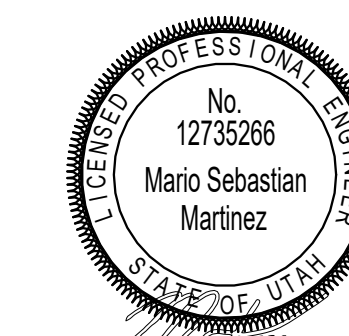
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NO. DATE DESCRIPTION



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SHEET KEYNOTES

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08/26/2024

ELECTRICAL  
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