

[illegible]

GENERAL INFO.:

1. FOR ANY STEEL FRAMING THAT DOES NOT MEET THE MINIMUM SIZE REQUIRED DUE TO THE U.L. DESIGN NUMBER (SELECTED BY THE ARCHITECT), THE THICKNESS OF THE SPRAYED FIRE PROTECTION MATERIAL MUST BE INCREASED AS REQUIRED BY THE FORMULA SHOWN IN THE U.L. FIRE RESISTANCE DIRECTORY (LATEST EDITION).
2. AT BRICK SUPPORT ANGLES DURING CONSTRUCTION, THE BRICK SHALL BE INSTALLED WITHOUT SHORING THE SUPPORT ANGLE. SHORING THE BRICK DURING CONSTRUCTION CAN CAUSE HORIZONTAL BED JOINT CRACKING WHEN THE SHORES ARE REMOVED.
3. ALL STRUCTURAL STEEL OUTSIDE OF THE BUILDING ENVELOPE SHALL BE HOT DIPPED GALVANIZED WITH A MINIMUM ZINC COATING CLASS OF G90, MEETING THE REQUIREMENTS OF ASTM 123, AND SHALL BE APPLIED AFTER FABRICATION. FIELD WELDS SHALL COMPLY SHALL BE GRIND SMOOTH AND TOUCHED UP WITH A ZINC RICH PAINT.
4. THE GENERAL CONTRACTOR AND HIS SUBCONTRACTORS SHALL COMPLY TO OSHA 29 CFR 1926 SUBPART R, SAFETY STANDARDS FOR STEEL ERECTION.

IMPORTANT NOTE TO PROPOSERS:

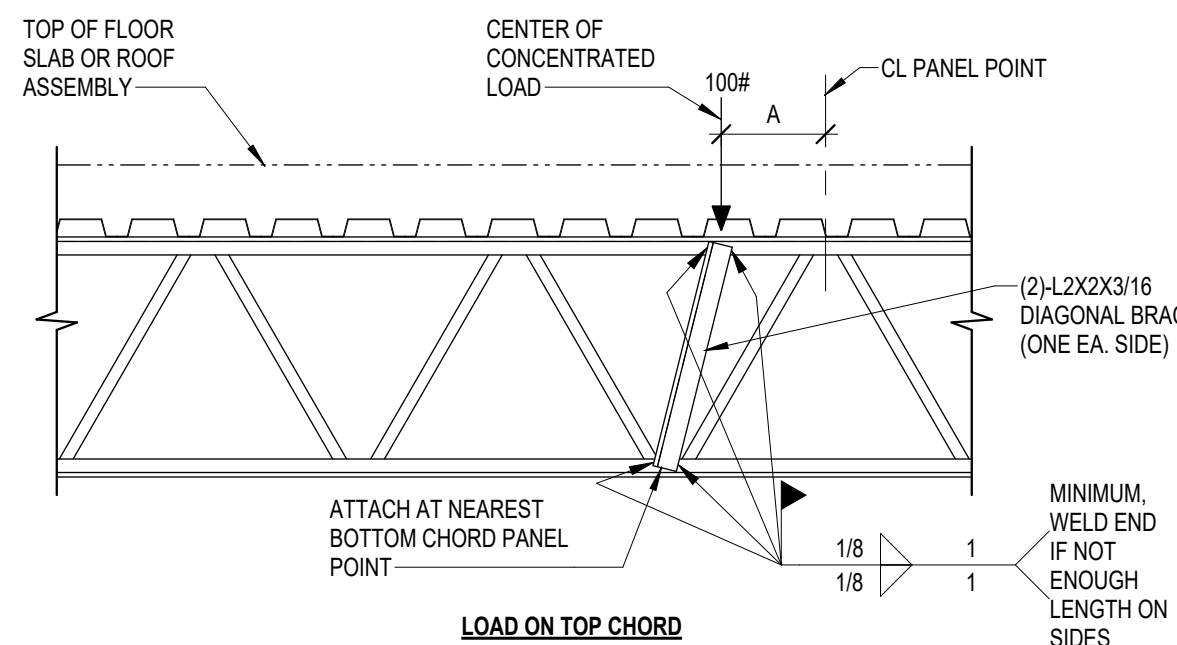
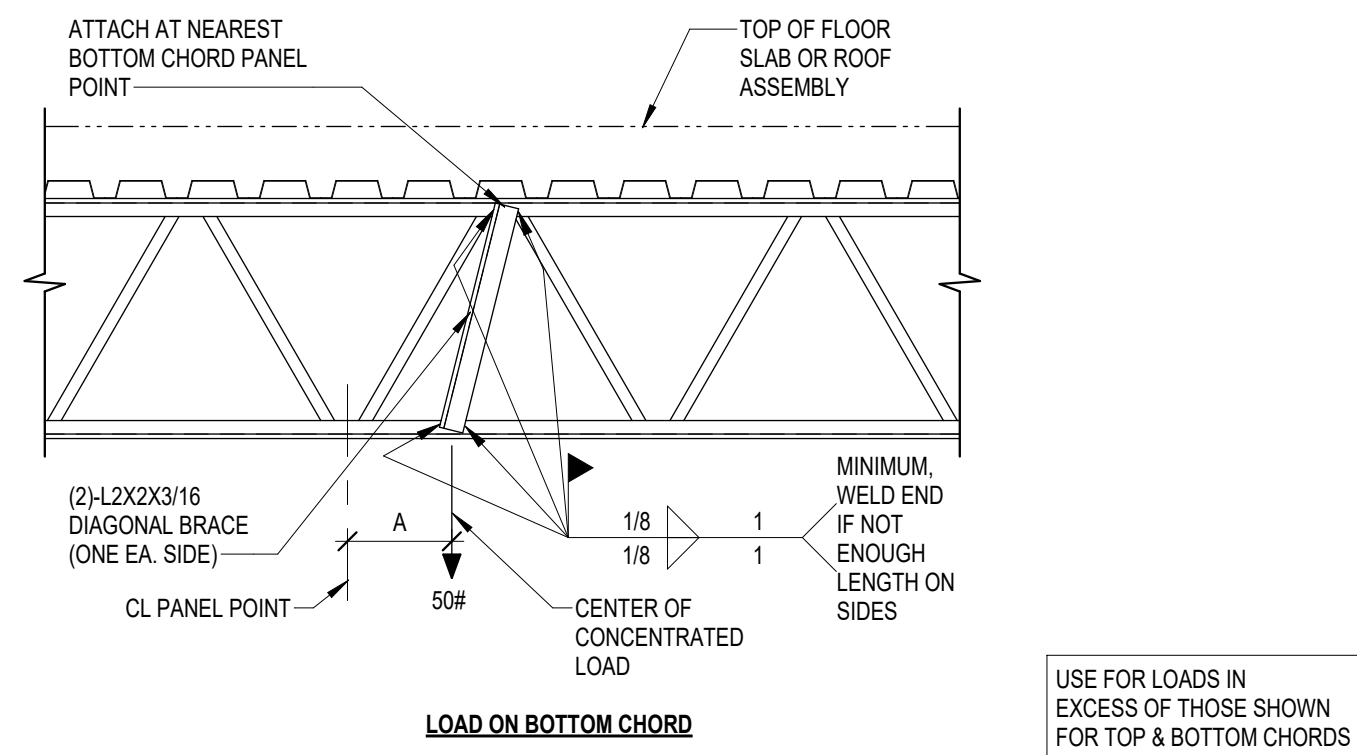
1. THESE DRAWINGS AND SPECIFICATIONS DO NOT NECESSARILY INDICATE ALL OF THE WORK REQUIRED FOR THE COMPLETION OF THE PROJECT. THESE DRAWINGS DO NOT NECESSARILY INDICATE ALL SECONDARY FRAMING WHICH MAY BE REQUIRED BASED ON THE ARCHITECTURAL DRAWINGS.

2. WHERE MISCELLANEOUS METAL ITEMS ARE IMPLIED OR INDICATED ON THE STRUCTURAL OR ARCHITECTURAL DRAWINGS, THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE FABRICATION AND INSTALLATION OF THESE ITEMS. THIS INCLUDES ANY MISCELLANEOUS METAL ITEMS INDICATED ON THE ARCHITECTURAL DRAWINGS AND NOT SHOWN ON THE STRUCTURAL DRAWINGS AND ANY ITEMS SHOWN ON THE STRUCTURAL DRAWINGS AND NOT NOTED. PROPOSERS SHALL ASSUME FOR PROPOSAL PURPOSES ONLY THE SIZE OF THESE ITEMS ARE AS FOLLOWS:

- A. ANGLES: L6X6X3/8
B. CHANNELS: C12X20.7
C. PLATES: 1/2" THICK
D. ANCHOR RODS: 1 1/2" DIAMETER X 18" LONG
E. EPOXY ANCHORS: 3/4" DIAMETER AT 48" OC MAX SPACING

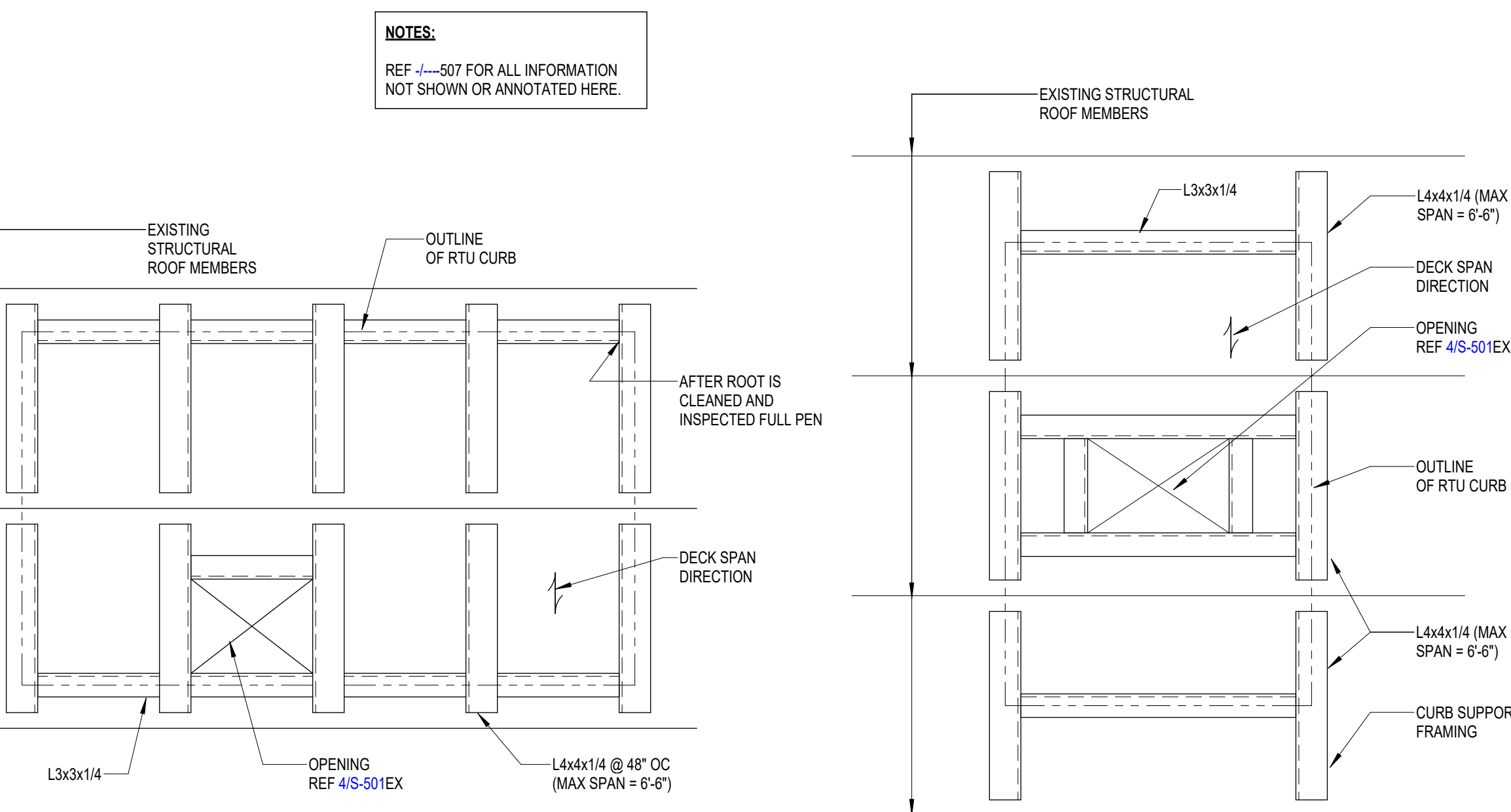
THE CONTRACTOR SHALL SUBMIT AN RFI AND THE ENGINEER SHALL APPROVE THE SIZE OF THE MEMBER BEFORE CONSTRUCTION OR FABRICATION.

3. PROVIDE SUPPORT FOR EDGES OF ROOF AND FLOOR DECK WHETHER SHOWN ON THE DRAWINGS OR NOT. PROVIDE CONTINUOUS SCREED ANGLE OR BENT PLATE FOR SLAB EDGES.

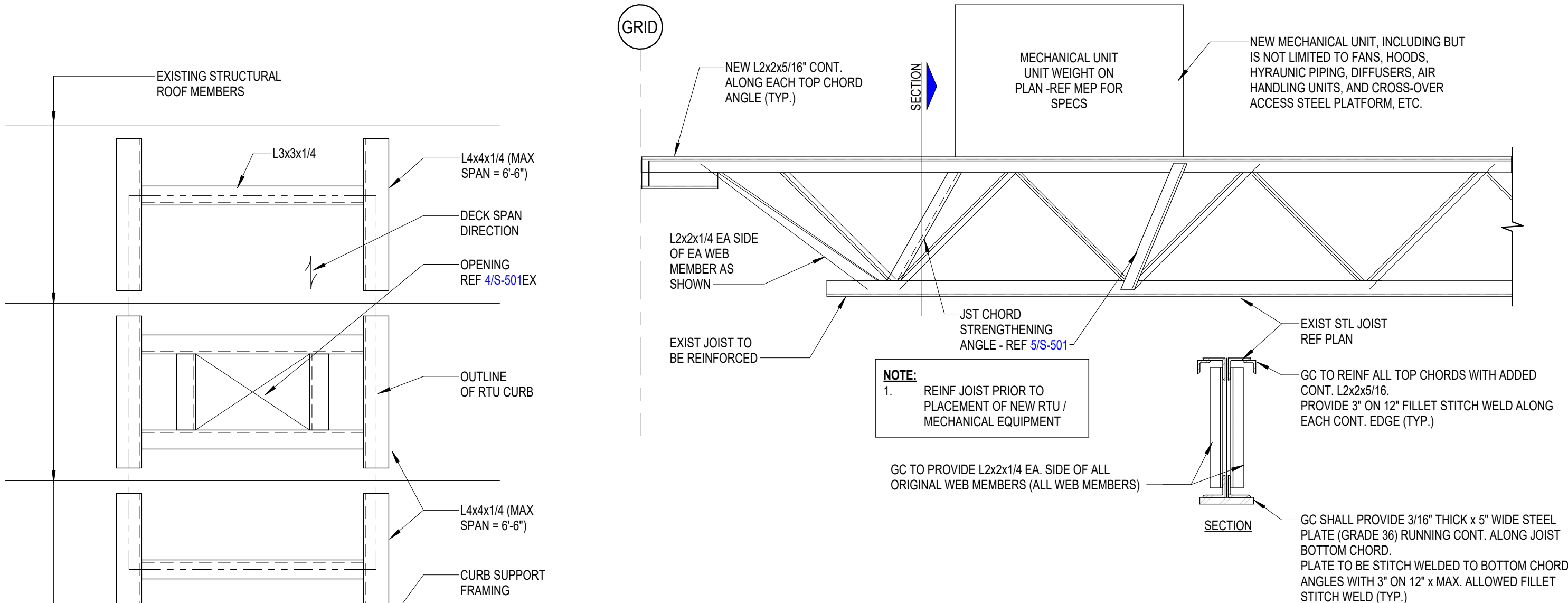


- NOTES:**
1. THIS DETAIL IS APPLICABLE TO ALL CONCENTRATED LOADS THAT ARE ATTACHED TO JOIST(S) WHETHER INDICATED ON THE STRUCTURAL DRAWINGS OR NOT. EXAMPLES OF THESE LOADS ARE:
 - a. HANGING LOAD PARTITION THAT EXCEEDS 150#
 - b. HANGING PLUMBING, MECH STEEL PIPE 4" DIA OR LARGER
 - c. HANGING BASKETBALL GOALS
 - d. MECHANICAL UNITS
 - e. HEAVY LIGHTS
 2. ADDITIONAL ANGLES SHALL BE PLACED AT PANEL POINTS.
 3. DIAGONAL BRACE IS NOT REQUIRED FOR "A" LESS THAN THREE INCHES.

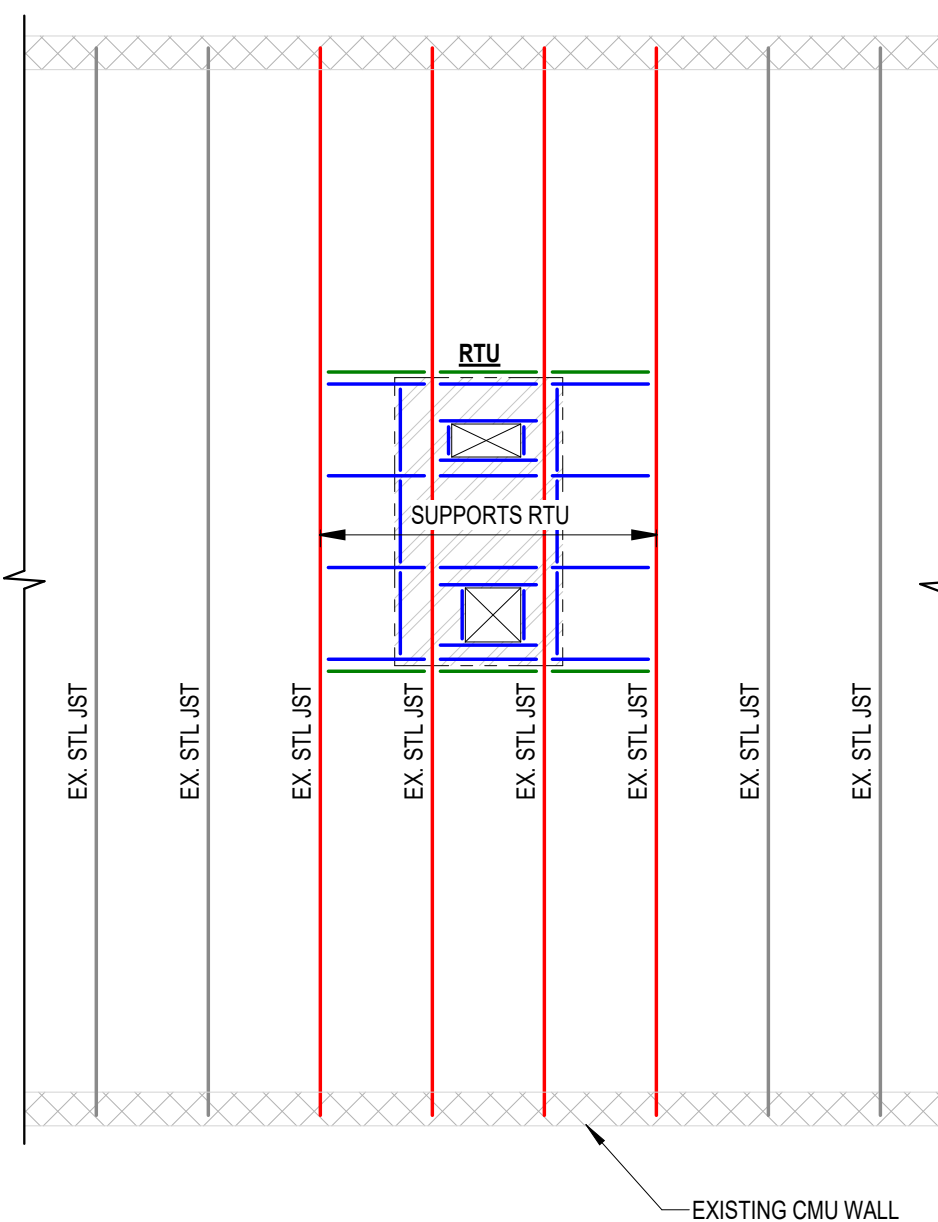
5 TYPICAL JOIST STIFFENING DETAIL AT CONCENTRATED LOADS



**ROOF TOP UNIT PARALLEL TO
SUPPORT FRAMING**

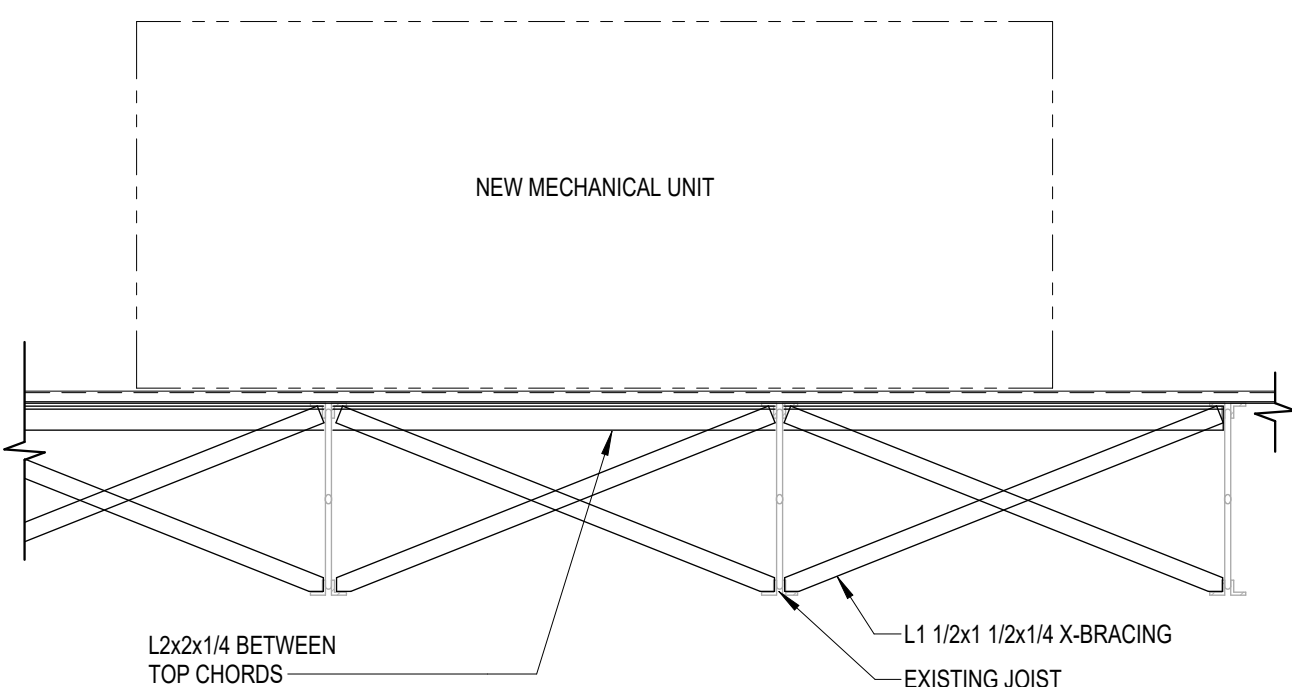


**ROOF TOP UNIT PERPENDICULAR
TO SUPPORT FRAMING PLAN**



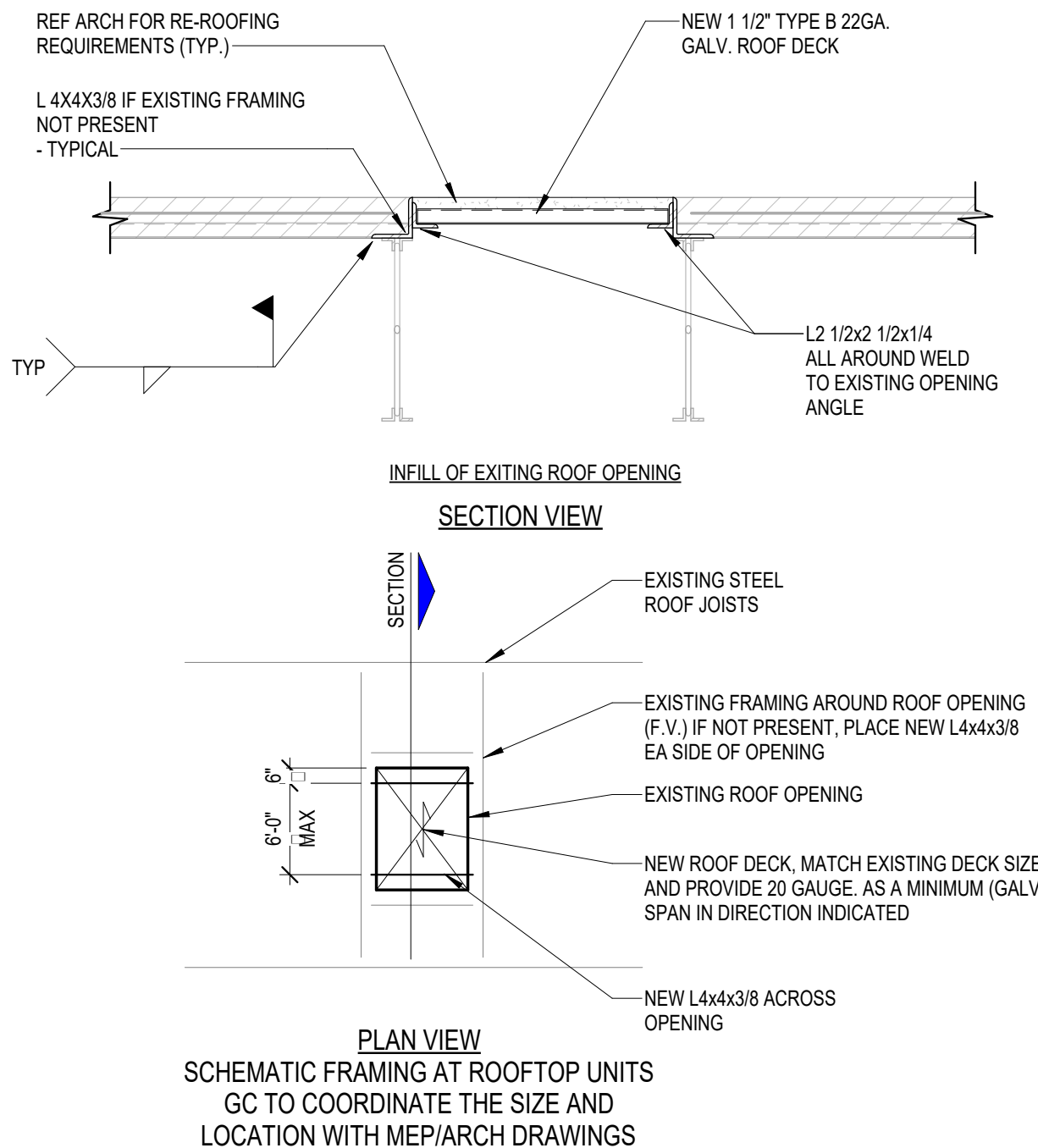
EXAMPLE PLAN VIEW OF EXISTING FRAMING AND RTU SUPPORT FRAMING

1. CONTRACTOR TO VERIFY EXACT LOCATION OF ALL EXISTING STRUCTURAL COMPONENTS THAT WILL BE CONNECTED TO NEW FRAMING. CONTRACTOR TO STUDY DRAWINGS TO DETERMINE THE FRAMING'S RESPONSIBILITY TO VERIFY ALL EXISTING DIMENSIONS AND COORDINATE THESE DIMENSIONS WITH THE STEEL FABRICATOR PRIOR TO BEGINNING LOCATION OF FRAMING. CONTRACTOR SHALL NOTIFY ARCHITECT AND/OR ENGINEER OF DISCREPANCIES.
2. CONTRACTOR TO REQUIRE ALL EXISTING FRAMING SUPPORTING NEW R/U'S / MECH. EQUIPMENT, ALL EXISTING FRAMING BELOW NEW R/U'S / MECH. EQUIPMENT, ALL EXISTING FRAMING ABOVE NEW R/U'S / MECH. EQUIPMENT, ALL EXISTING FRAMING ABOVE NEW R/U'S / MECH. BEAM RIG, UNLESS NOTED OTHERWISE ON PLAN. THIS INCLUDES BUT IS NOT LIMITED TO FANS, HOODS, HYDRAULIC PIPING, AND/OR HANDLING EQUIPMENT, CROSS OVERS, MECH. ROOMS, PLATFORM, ETC.
3. FRAMING SHOWN IN BLUE INDICATE LOCATION / ANGLES REQUIRED FOR SUPPORT AND R/O OPENING. MECHANICAL PROVIDE JOIST STRENGTHENING ANGLES WHERE BLUE ANGLE FRAMING DOES NOT EXIST. THIS PANEL SHALL BE REINFORCED TO SUPPORT ALL MECH. LOADS AS GUARANTEE THAT JOIST STRENGTHENING ANGLES ARE REQUIRED AT ALL LOCATIONS.
4. FRAMING SHOWN IN GREEN INDICATES JOIST BRIDGING BELOW NEW MECH UNITS ON ROOF PER 2-S-501 UPLIFT BRIDGING AND ANGLES BETWEEN TOP CHORDS IS REQUIRED UNDER ALL NEW MECHANICAL.
5. THE GC SHALL COORDINATE THE QUANTITY, LOCATIONS, SIZES AND PLACEMENT, ETC. OF ALL FRAMING, BRIDGING, AND JOIST MECHANICAL DRAWINGS, AND ACCOUNT FOR SUPPORT FRAMING AND EXISTING FRAMING REINFORCEMENT REGARDLESS IF THEY ARE SHOWN OR NOT IN STRUCTURAL DRAWINGS. UNLESS NOTED OTHERWISE IN THE STRUCTURAL DRAWINGS. THIS INCLUDES BUT IS NOT LIMITED TO FANS, HOODS, HYDRAULIC PIPING, DIFFUSERS, AIR HANDLING UNITS, AND CROSS OVERS, MECH. ROOMS, PLATFORM, ETC.

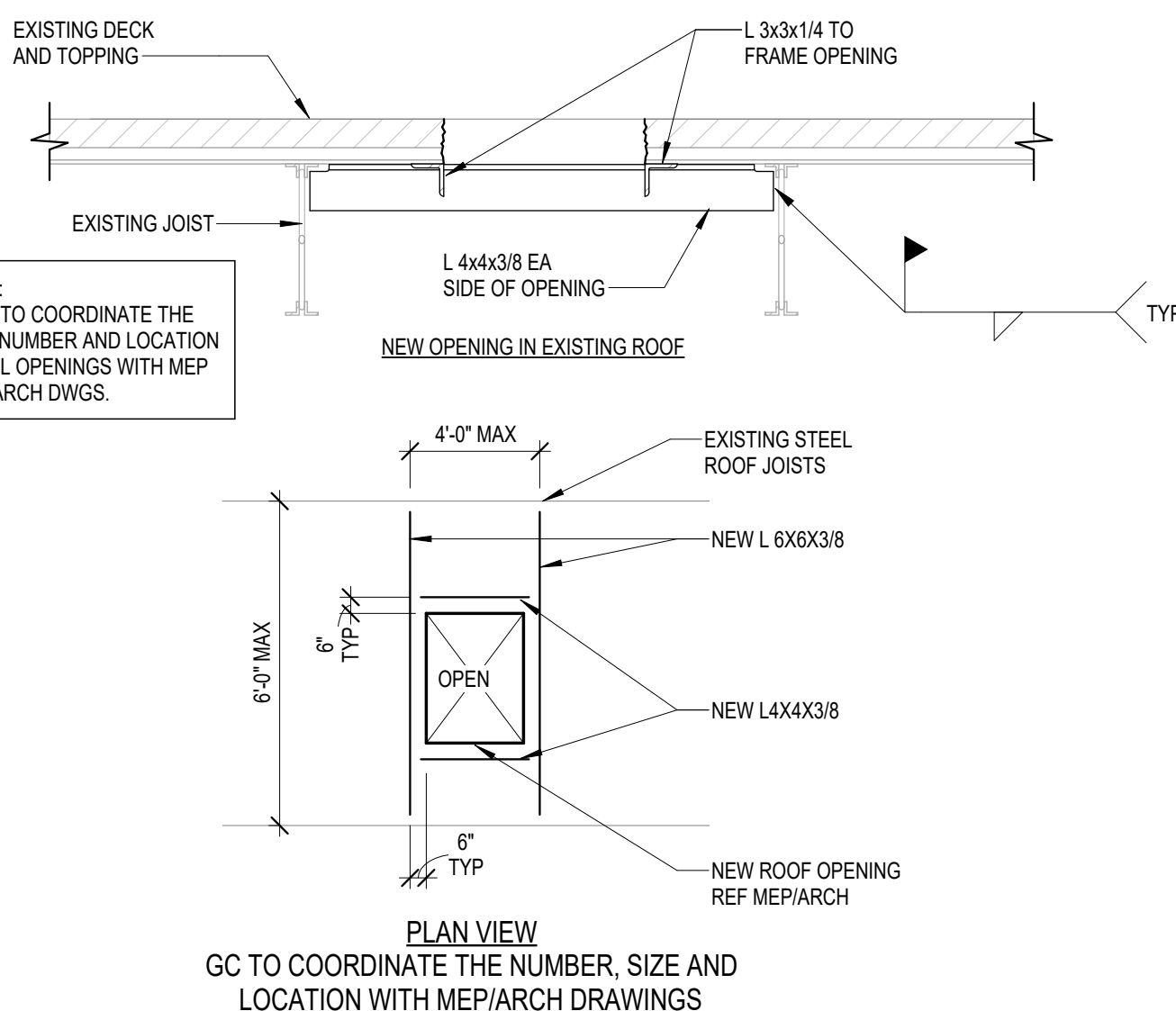


- NOTES:**
1. PROVIDE BETWEEN FIVE JOISTS MINIMUM.
 2. PROVIDE TWO ROWS OF BRIDGING ONE AT EACH END OF UNIT.
 3. PROVIDE AT THE RTU UNITS ON EXISTING ROOF COORDINATE WITH MECHANICAL DRAWINGS.

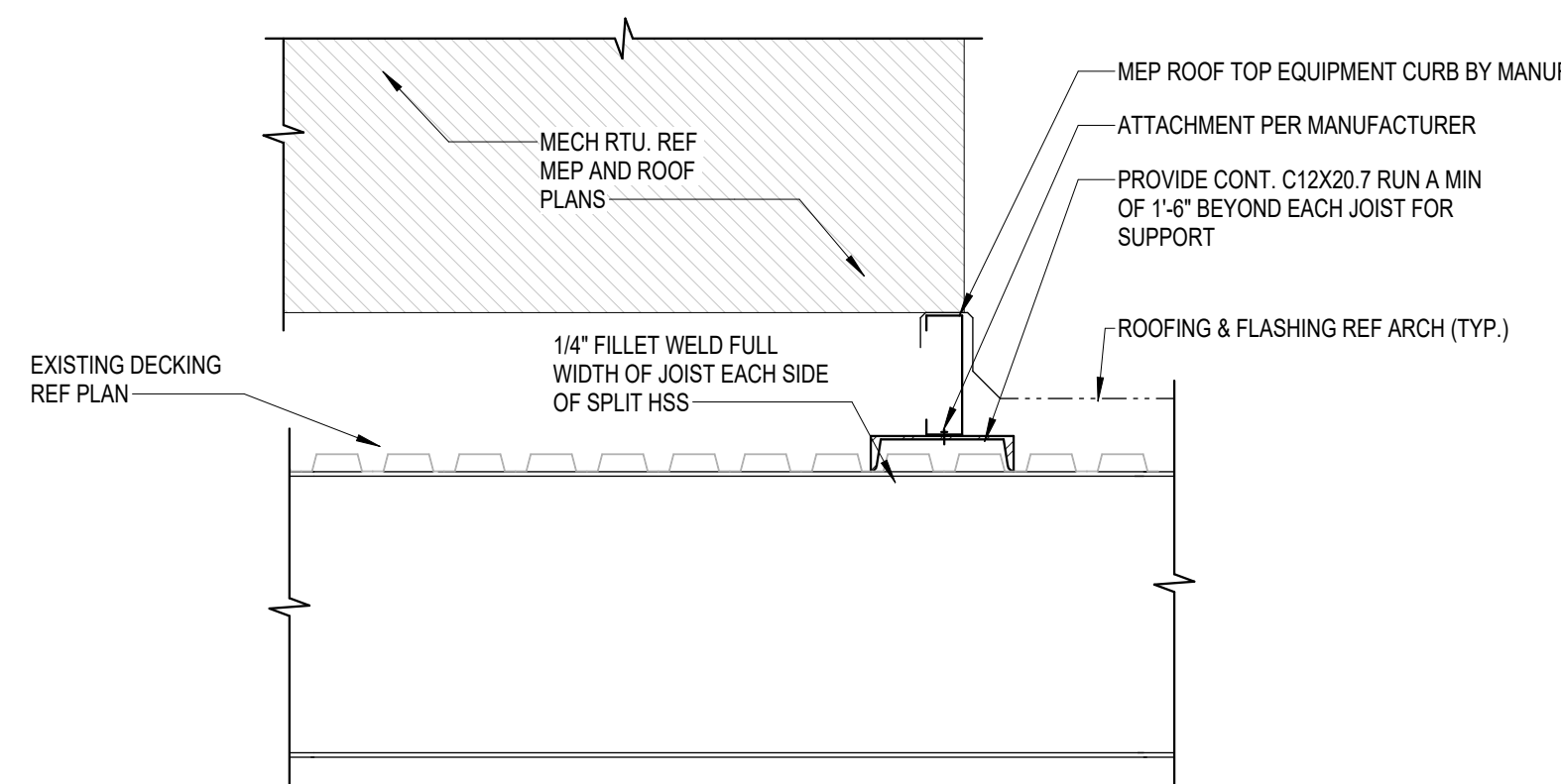
2 TYPICAL UPLIFT BRIDGING AT NEW MECHANICAL UNITS



3 TYPICAL INFILL DETAIL AT EXISTING MECH PENETRATION



4 NEW ROOF PENETRATION / OPENING IN EXISTING



6 TYPICAL RTU SUPPORT