

DESIGNER



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PROJECT
191 MARGINAL WAY
RETAIL CENTER

191 MARGINAL WAY
PORTLAND, MAINE 04101

DRAWING
EXIST STEEL JOIST
REINFORCING
ELEVATION & DETAILS

CWS PROJECT NUMBER: 15.063

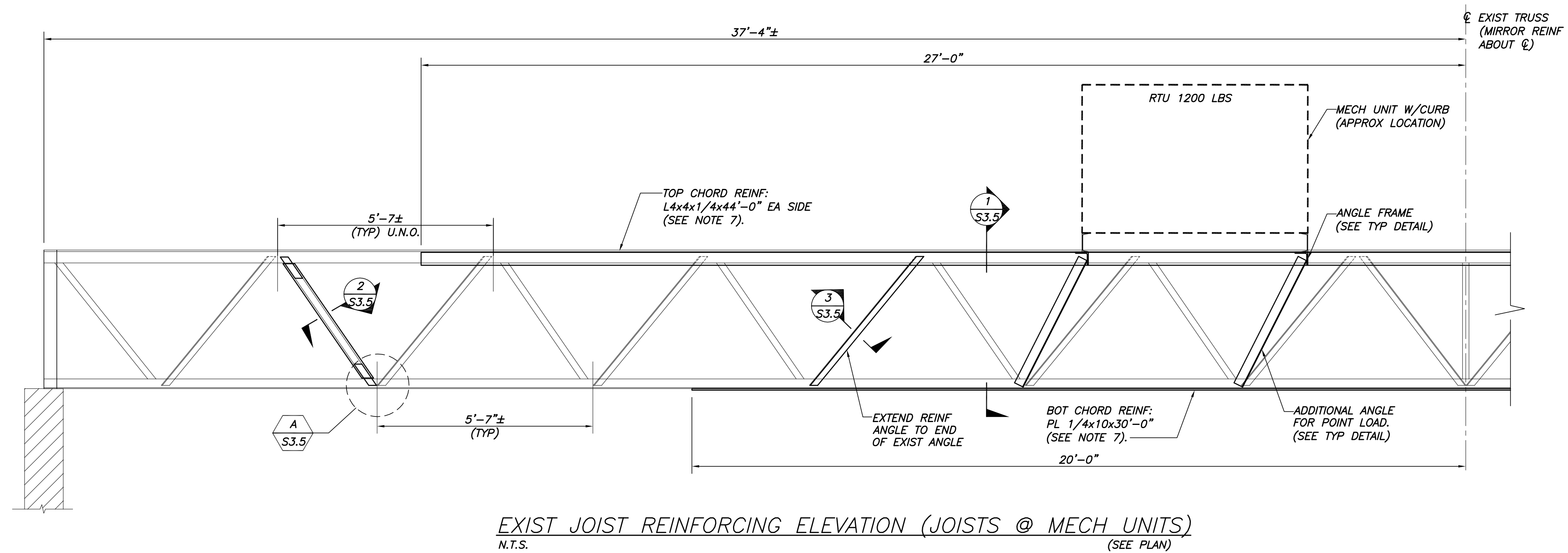
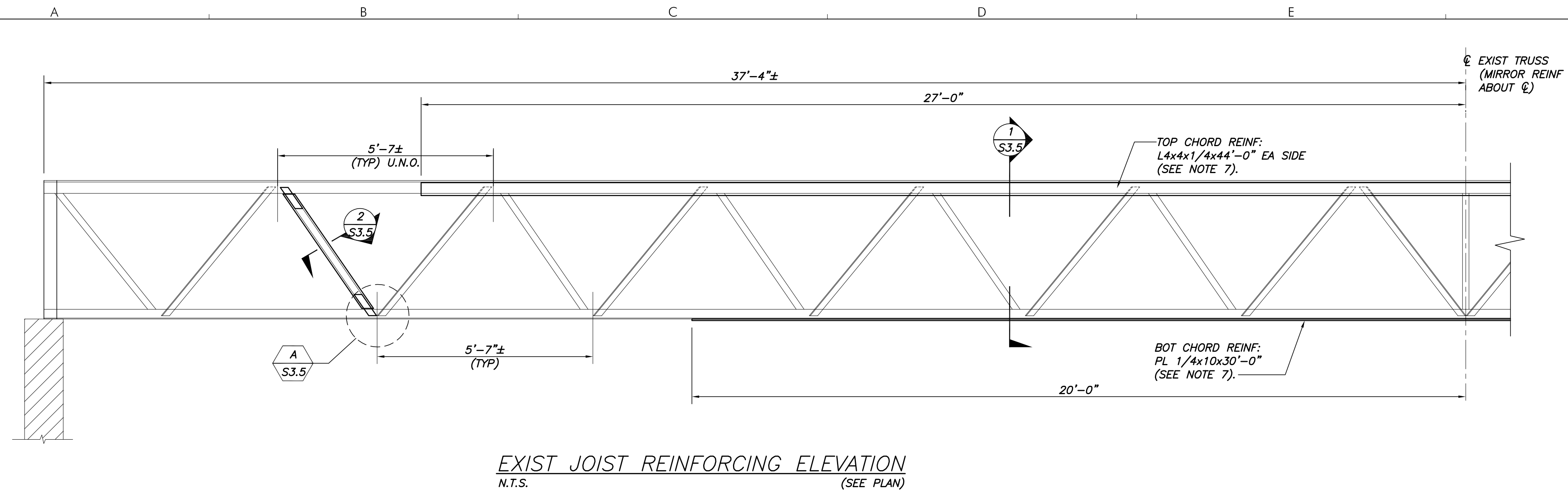
REVISIONS

DRAWING NUMBER

S3.5

SCALE: NOTED

DATE: 02/10/2017

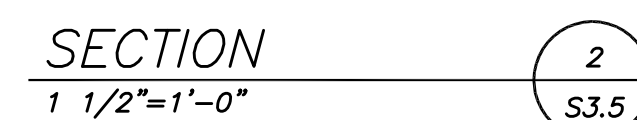
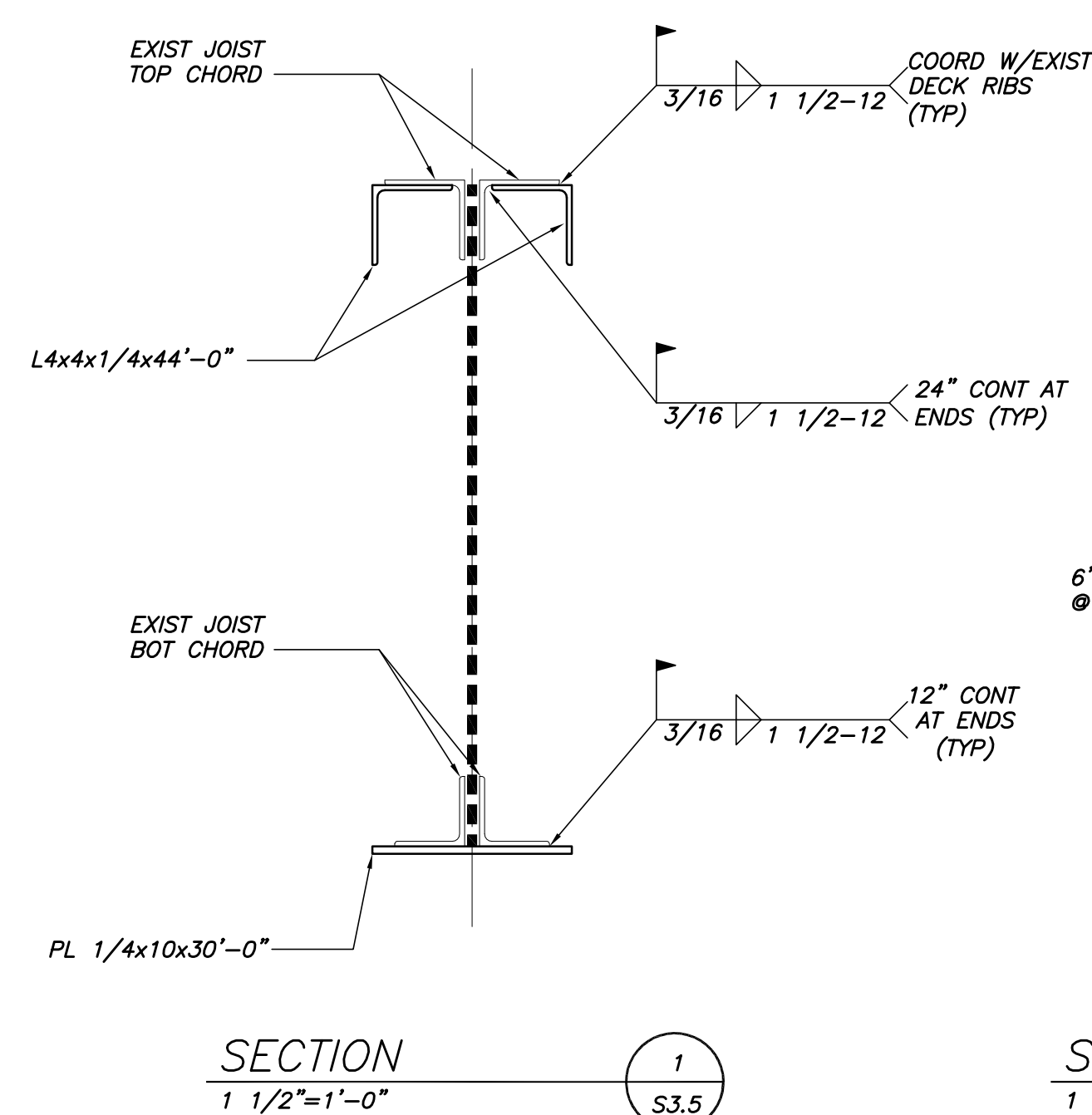


NOTE:
1. MECHANICAL UNITS TO BE LOCATED BETWEEN EXIST JOISTS, TYP.

JOIST REINFORCEMENT NOTES:

1. THE G.C. SHALL SUBMIT A WELDING PROCEDURE FOR EACH TYPE OF JOIST WELDING TO BE PERFORMED ON THIS PROJECT, AS APPLICABLE. EACH PROCEDURE SHALL INDICATE THE WELDING PROCESS (SMAW, FCAW, ETC.), SIZE OF FILLER MATERIALS, EFFECTIVE SIZES AND THROATS TO BE ACHIEVED, AND PLACEMENT OF WELDS (AS REQUIRED PER THE CONDITIONS OF NOTE 2 BELOW).
2. THE G.C. SHALL TAKE ALL THE NECESSARY PRECAUTIONS TO NOT OVERHEAT THE EXISTING JOISTS DURING WELDING OF THE REINFORCEMENT, AND SHALL NOT DAMAGE THE JOIST IN ANY WAY DURING INSTALLATION OF THE REINFORCEMENT. THIS INCLUDES, BUT IS NOT LIMITED TO:

STAGGERING THE INSTALLATION OF WELDS IN ORDER TO NOT OVERHEAT ISOLATED LOCATIONS (e.g. ALTERNATING STITCH WELDS BETWEEN TOP AND BOTTOM CHORDS, OPPOSITE SIDES OF THE JOIST, AND OPPOSITE ENDS OF THE JOIST).
ALLOWING THE JOIST AMPLE TIME TO COOL BETWEEN WELDING.
MINIMIZING WELD FILLER THICKNESSES.
WHEN POSSIBLE, UTILIZING STICK WELDING PROCESSES IN LIEU OF CONTINUOUS WELDING (SUCH AS FCAW).
3. IF JOIST IS TO BE SUBJECT TO LIVE LOAD OR SNOW LOAD DURING THE INSTALLATION OF REINFORCEMENT, IT IS RECOMMENDED THAT JOISTS BE SHORED DURING INSTALLATION OF THE REINFORCEMENT, AND FOR A MINIMUM OF 24 HOURS AFTER COMPLETION OF THE REINFORCEMENT.
4. EFFECTIVE WELD SIZES AND EFFECTIVE THROATS INDICATED ON THESE DRAWINGS ARE MINIMUMS. INCREASES TO THE WELD SIZES MAY BE REQUIRED TO ACHIEVE THE DESIGNATED EFFECTIVE THROATS.
5. DECREASES TO THE EFFECTIVE WELD SIZE IS ALLOWED, PROVIDED IT CAN BE PHYSICALLY DEMONSTRATED (VIA A MOCKUP OR SIMILAR MEANS) THAT A SMALLER WELD SIZE CAN ACHIEVE THE SAME OR GREATER EFFECTIVE THROAT INDICATED ON THE DRAWINGS. UNDER NO CIRCUMSTANCES SHOULD THE EFFECTIVE THROAT BE REDUCED BELOW THAT SHOWN ON THE DRAWINGS.
6. AT ALL TIMES, G.C. SHALL PROTECT COMBUSTIBLE MATERIALS FROM SPARK OR FIRE DURING FIELD WELDING.
7. PROVIDE FULL PENETRATION WELDED SPLICES AT ALL REINFORCEMENT MATERIAL.
8. RELOCATION OF EXIST DUCTWORK, PIPING, CONDUIT, ETC. MAY BE REQUIRED TO INSTALL JOIST REINFORCEMENT. G.C. SHALL CARRY APPROPRIATE ALLOWANCE.



NOTE:
1. VERIFY THICKNESS OF EXISTING PLATE, NOTIFY ENGINEER IF PLATE IS THICKER THAN 3/16".

