

STRUCTURAL NOTES

- Applicable Codes and Standards:
- A. 2009 International Building Code (including all local adoptions)
 - B. 2009 International Residential code (including all local adoptions)
 - C. City of Steamboat Springs Community Development Code
 - D. "Minimum Design Loads for Buildings and Other Structures" - ASCE 7-10
 - E. "Building Code Requirements for Structural Concrete" - ACI318
 - F. "Steel Construction Manual" - AISC fourteenth edition
 - G. "National Design Specification for Wood Construction" - ANSI/AF&PA-NDS 2005

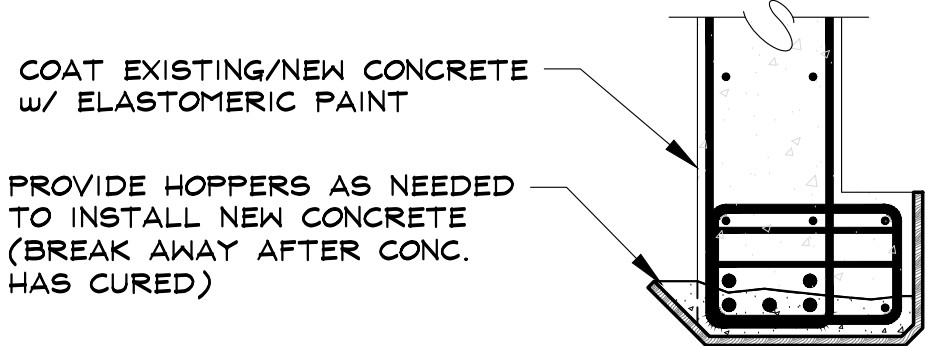
- Design Live Loads:
- A. Floors: 95 psf (Snow) and 3,000 lb. Point Load
 - C. Wind: 120 mph, Exposure B
 - D. Seismic Design: Category D, Soil Type D

- Reinforced Concrete:
- A. Structural concrete shall be Type 1, and have a minimum 28 day strength of 4,000 psi. All concrete shall have a min 6% (+/- 1.5%) entrained air for durability and a 4" (+/- 1") slump. The maximum aggregate size shall be 3/4". Concrete shall not be placed on frozen ground and shall be protected from freezing for a minimum of 7 days. During cold weather the methods and specifications set forth in ACI 306R-88 shall be followed to prevent frost damage.
 - B. All concrete work shall conform to the requirements of ACI318 and 301, latest edition.
 - C. All exposed edges shall have a 3/4" chamfer.
 - D. Reinforcing bars shall conform to ASTM spec. A615-79 and shall be Grade 60.
 - E. At splices, lap bars a minimum of 38 diameters. At corners and intersections, make horizontal continuous or provide matching corner bars. Around openings in walls and slabs, provide (2) #5 bars extending a minimum of 2 feet beyond the edge of the opening. Continuous top bars in walls shall be spliced at mid-span. Continuous bottom bars in walls shall be spliced at supports.
 - F. Concrete cover shall conform to ACI 318-08, 7.7. Unless a greater cover is required, concrete cast against earth shall have 3in. min. cover, concrete exposed to earth or weather shall have 2in. min. cover for No. 6 bars & greater, & 1 1/2 in. min. cover for No. 5 bars & smaller. Concrete not exposed to weather shall have 3/4" min. cover for No. 11 bars & smaller.
 - G. Concrete shall be adequately consolidated/vibrated during placement to ensure it is thoroughly placed around all reinforcing steel and embedded fixtures.
 - H. Unless noted otherwise, slabs, footings and walls shall not have any horizontal 'cold joints.' All construction joints shall be detailed or reviewed by the Engineer of Record.

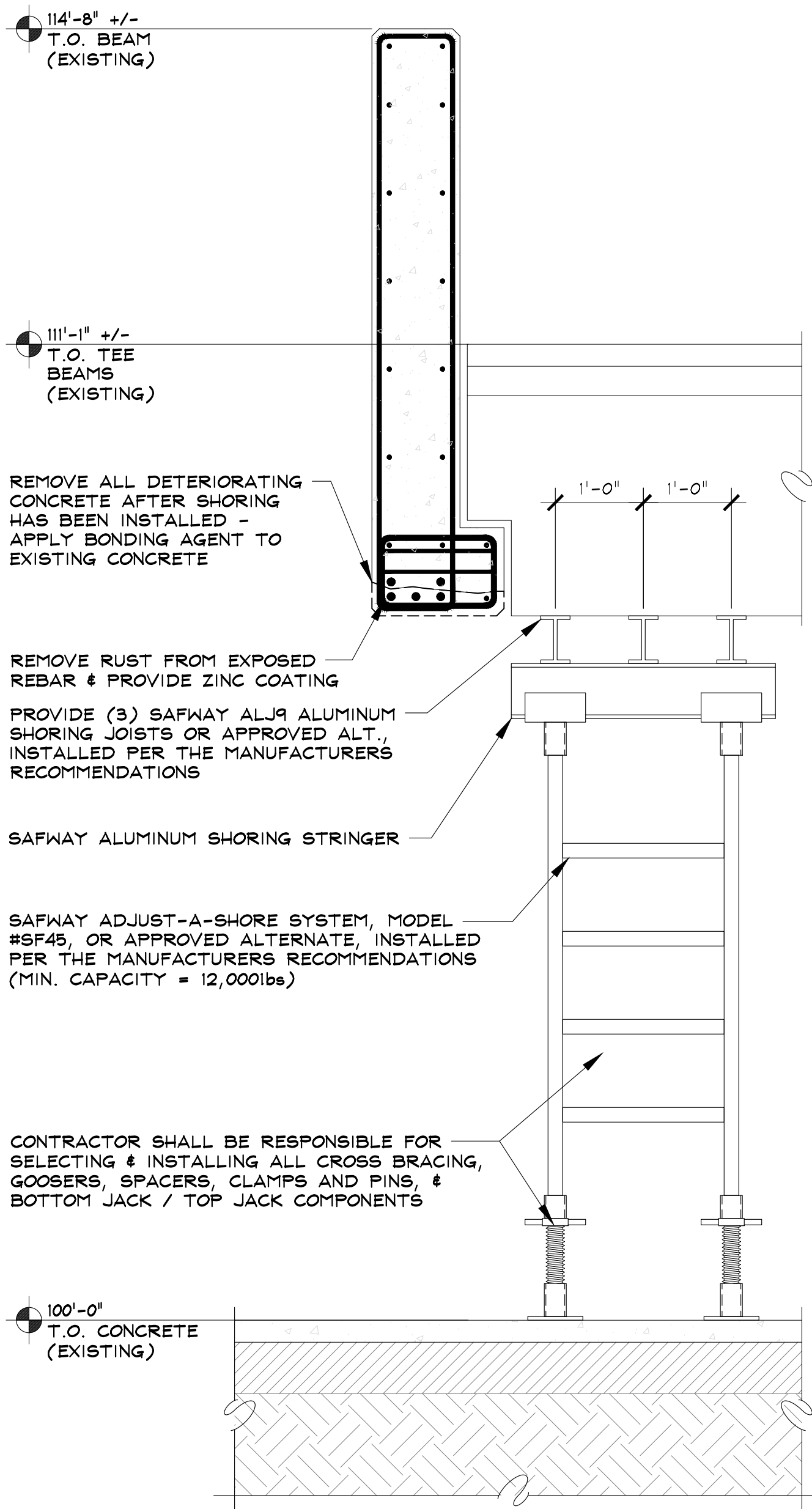
- Phase 1 & 2 Temporary Shoring:
- A. Before beginning temporary design or construction, the Contractor shall survey existing ground elevations in the vicinity of shoring locations to determine actual shoring heights.
 - B. All steel framing towers and components shall be Safway Adjust-A-Shore system, model #SF45, or approved alternate, installed per the manufacturers recommendations. Please refer to the attached pdf for more details.
 - C. The Contractor shall be responsible for selecting and installing all cross bracing, goosers, spacers, clamps and pins, and bottom jack / top jack components. Please refer to the attached pdf for more details.
 - D. Aluminum shoring joists shall be Safway ALJ9 or approved alternate, installed per the manufacturers recommendations. Please refer to the attached pdf for more details.

- Phase 3 Temporary Shoring:
- A. Before beginning temporary design or construction, the Contractor shall survey existing ground elevations in the vicinity of shoring locations to determine actual shoring heights. Shoring columns shall be capable of supporting a minimum load of 55,000lbs and shall be installed per the manufacturer's recommendations. The Contractor shall submit documentation of selected product for approval by the Engineer of Record prior to installation.

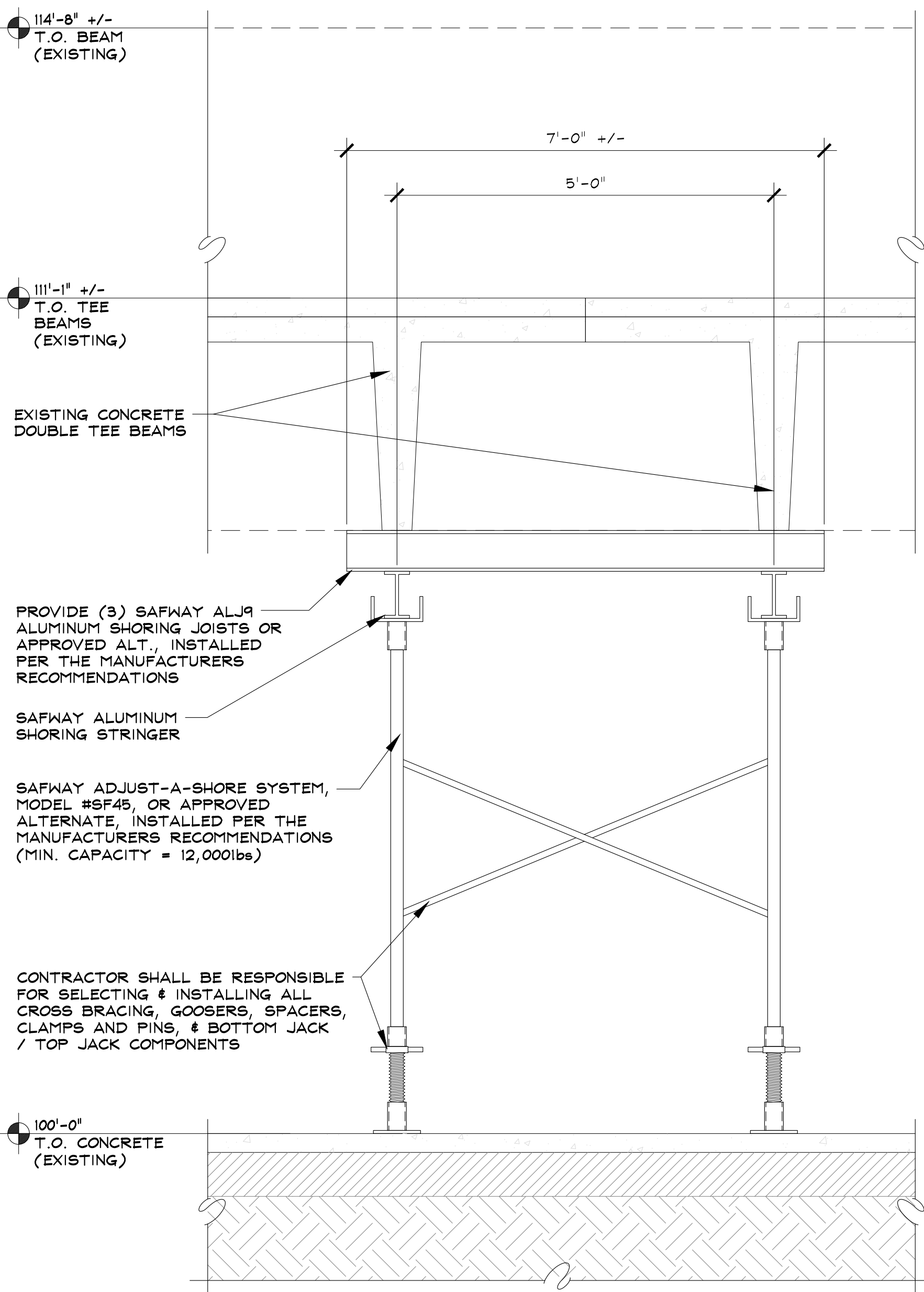
- Field Verification:
- A. The contractor shall thoroughly inspect and survey the existing structure to verify dimensions, elevations, framing, etc., which may affect the work shown on the drawings and report any variations or discrepancies to the Engineer.



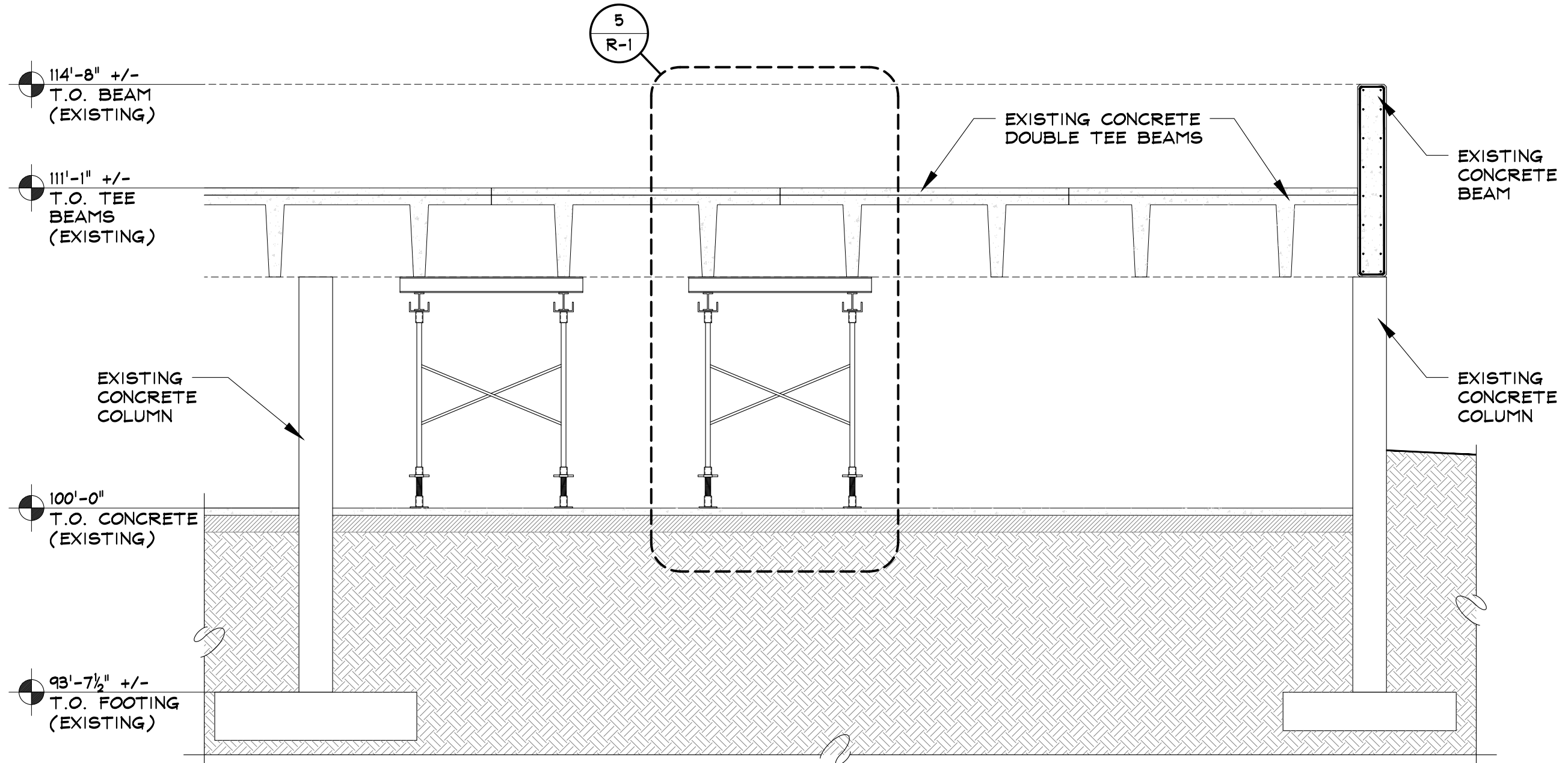
7 CONCRETE REPAIR SECTION SCALE: 3/4" = 1'-0"



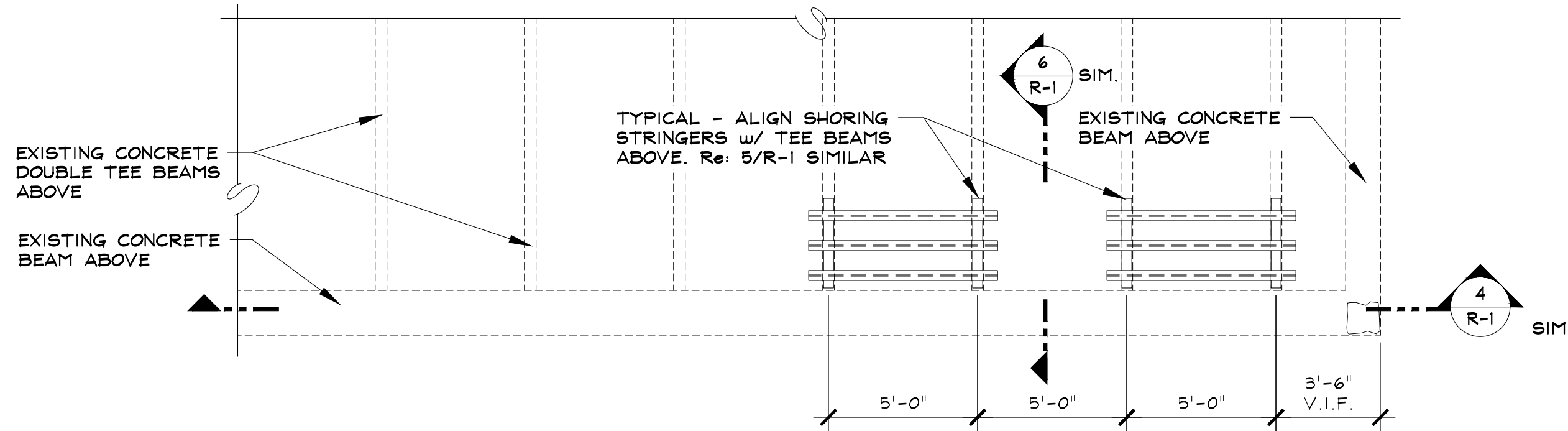
6 SHORING SECTION - PHASES 1 & 2 SCALE: 3/4" = 1'-0"



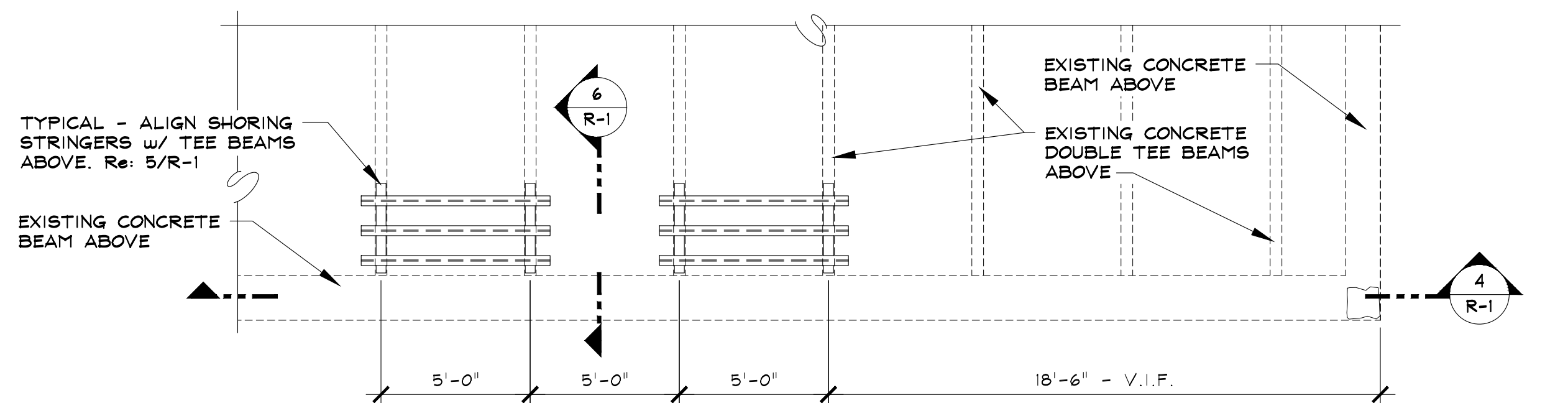
5 SHORING SECTION - PHASES 1 & 2 SCALE: 3/4" = 1'-0"



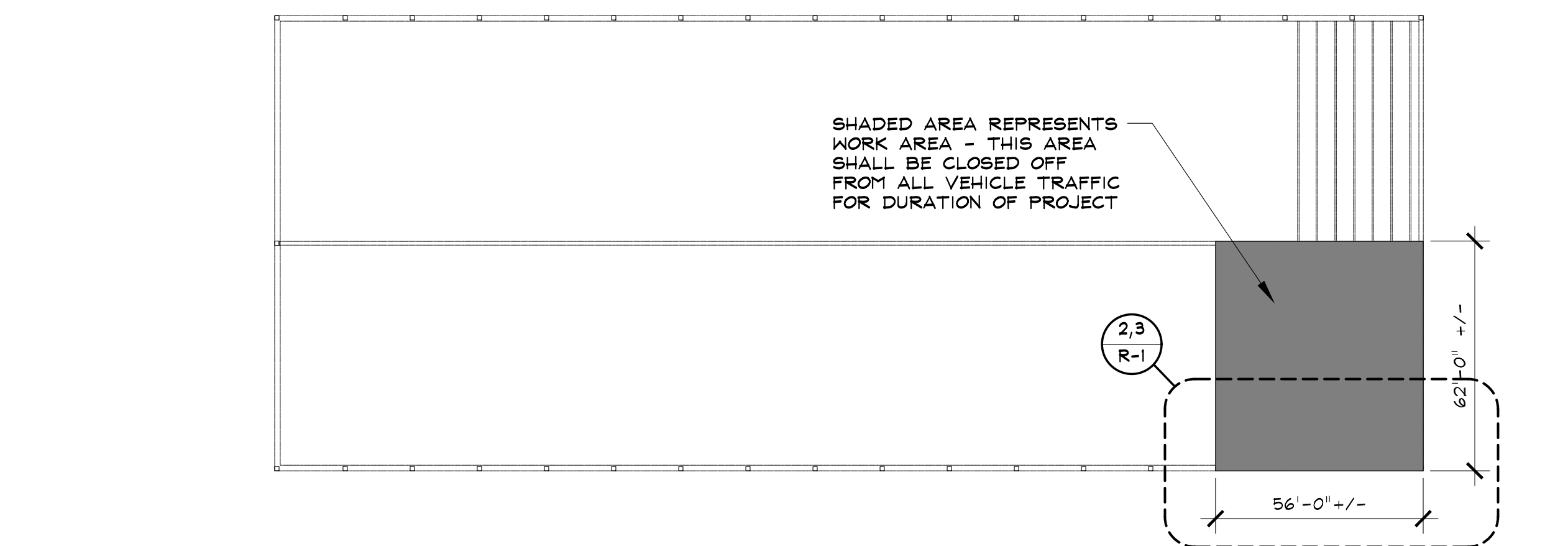
4 TEMPORARY SHORING SECTION - PHASE 1 NOTE: PHASE 2 TEMPORARY SHORING SECTION SIMILAR SCALE: 3/4" = 1'-0"



3 TEMPORARY SHORING PLAN - PHASE 2 SCALE: 3/4" = 1'-0"



2 TEMPORARY SHORING PLAN - PHASE 1 SCALE: 3/4" = 1'-0"



1 OVERALL STRUCTURE/WORK AREA KEY SCALE: NTS

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SSRC PARKING GARAGE
2305 MT. WERNER CIRCLE
STEAMBOAT SPRINGS, COLORADO
A SHORING & REPAIR PLAN FOR:
STEAMBOAT SKI & RESORT CORPORATION

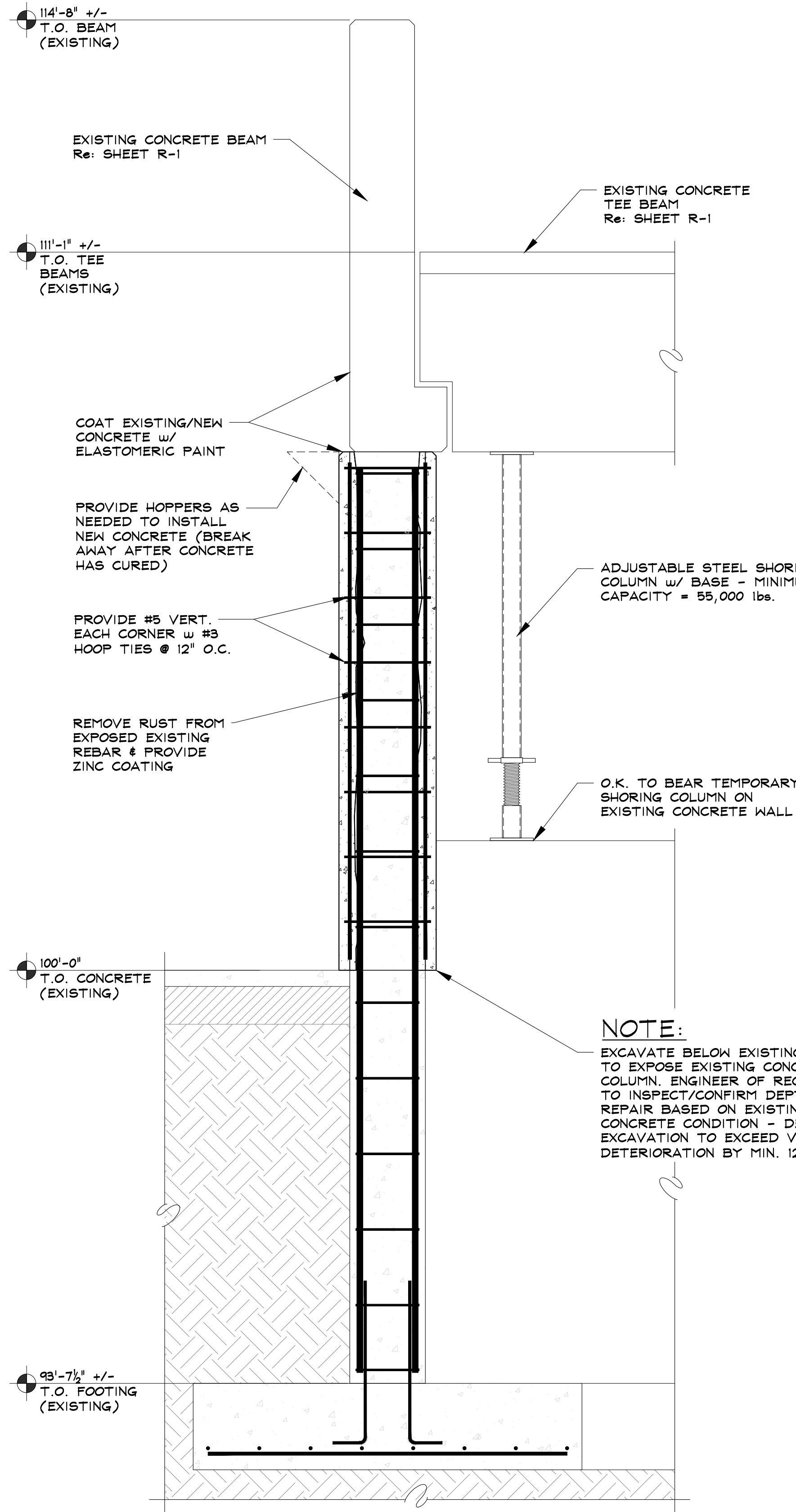
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SJM/JEM
PROJECT # 17076

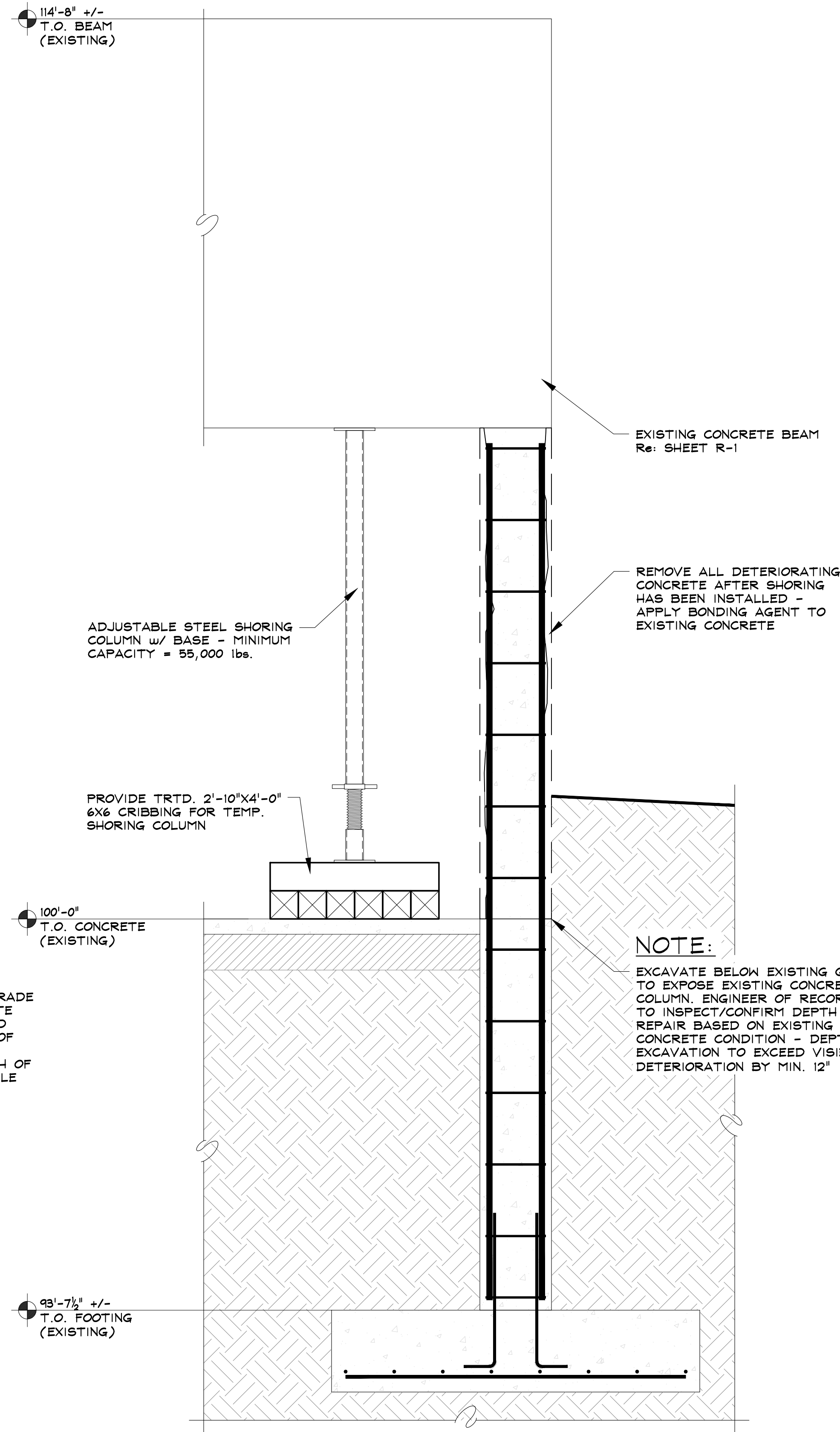
SHORING PLAN
& SECTIONS

7-1
SHEET 1 of 2

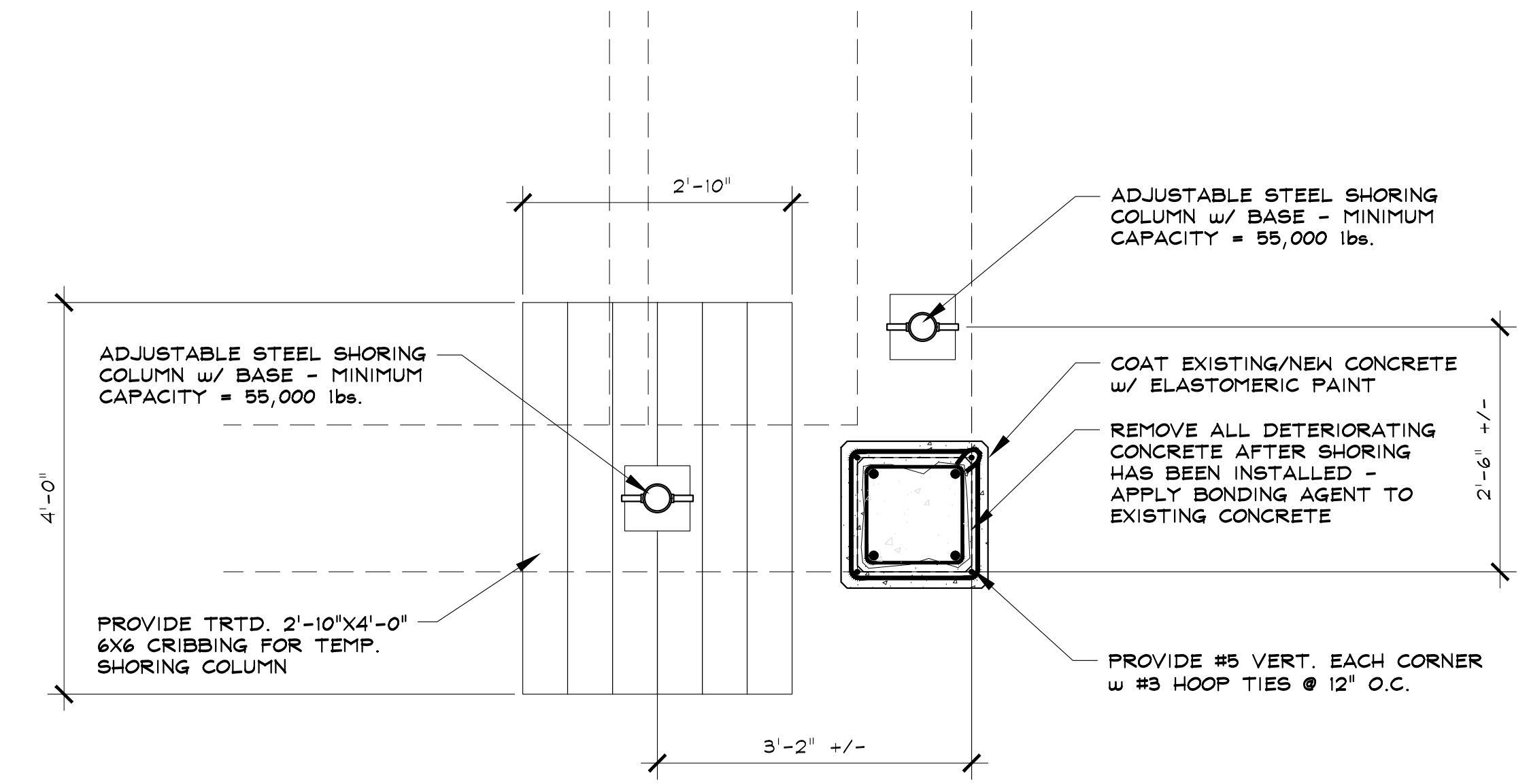
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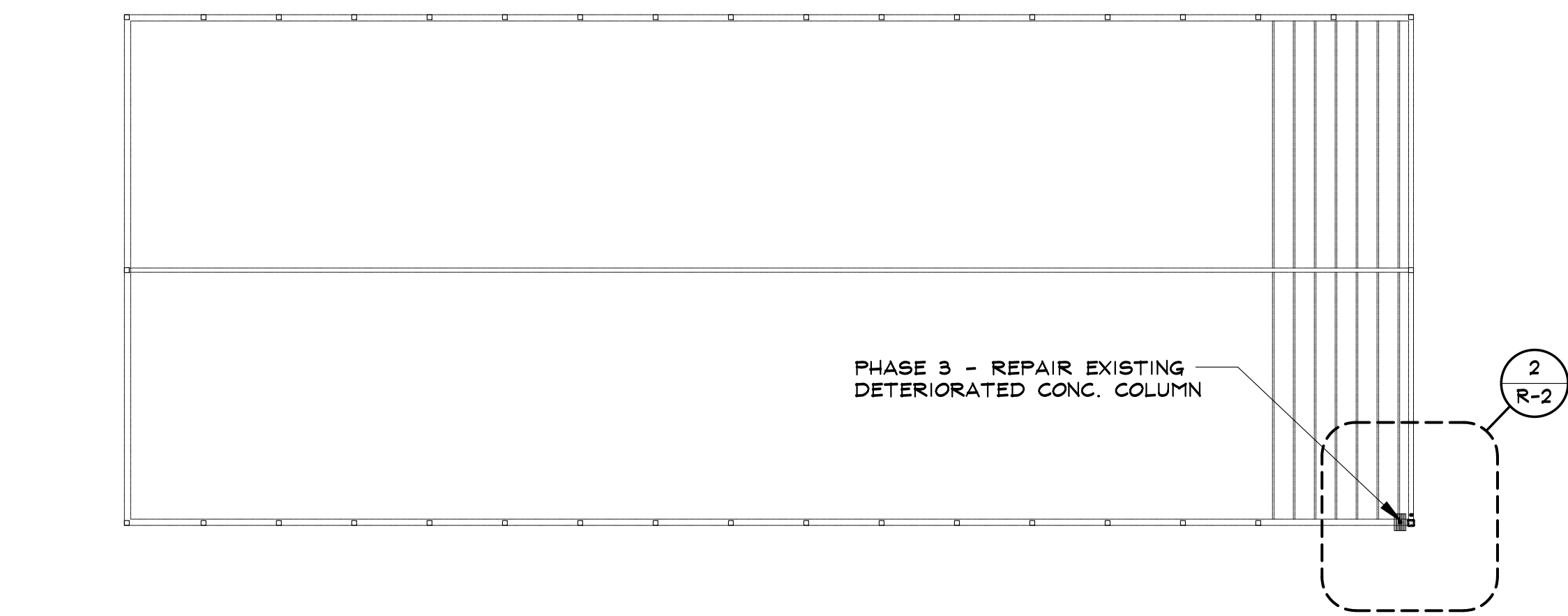
4 PHASE 3 SHORING / REPAIR SECTION
SCALE: 3/4" = 1'-0"



3 PHASE 3 SHORING SECTION
Re: 4/R-2 FOR REPAIR SECTION
SCALE: 3/4" = 1'-0"



2 PHASE 3 SHORING PLAN
SCALE: 3/4" = 1'-0"



1 OVERALL STRUCTURE/WORK AREA KEY
SCALE: NTS

SSRC PARKING GARAGE

2305 MT. WERNER CIRCLE
STEAMBOAT SPRINGS, COLORADO

A SHORING & REPAIR PLAN FOR:
STEAMBOAT SKI & RESORT CORPORATION

ISSUE DATES
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PROJECT # 17076

SHORING PLAN
& SECTIONS

7-2
SHEET 2 of 2

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