

October 31, 2025

**ADDENDUM #2**

**TO CONTRACT DOCUMENTS FOR:** Project #CP262031 – Memorial Stadium West Bleachers Improvements - Renovations

**ADVERTISEMENT DATE:** 10-02-2025

**PREPARED FOR:** The Curators of the University of Missouri

**CONSULTANT:** Structural Engineering Associates, Inc.  
1000 Walnut Street, Suite 1570  
Kansas City, MO 64106  
(816) 421-1042

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The contract documents for the above noted project and the work covered thereby are herein modified.

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**GENERAL INFORMATION:**

- 1) **Questions and Answers**
- a. Q) Regarding work item R-7, of the 2,400 LF included in the bid amount, what are the approximate quantities for the control, construction, and expansion joints being replaced? There is a significant price difference between the three.  
A) Quantities have been divided to show quantities. See Addendum No. 2.
  - b. Q) Regarding work item R-9, the specification references a pedestrian traffic system. However, the Neogard system that is listed is the vehicular membrane system. Which Neogard pedestrian membrane system should be included in our pricing?  
A) Per all information in the contract documents, the grade of the waterproofing membrane is pedestrian. We will modify the specifications to accommodate.
  - c. Q) Regarding work item R2, multiple details are indicated for that work item. Details 5 and 6/S002 show the repair width at 1'0" max. Detail 2/S002 shows the enter width of the concrete pan. Can an estimated quantity for each of these details be provided?  
A) No, quantities were based on chain dragging numbers and those are typical repair details.
  - d. Q) Regarding work item R2, note E of the repair schedule on S-000 states that "in bleacher areas where access is not available, deteriorated areas will require enlargement to install sacrificial formwork". Can a detail be provided for this?  
A) No, we are leaving the configuration of temporary formwork to each contractor.
  - e. Q) Will new cove sealants be required at the bleacher stair tread/riser transitions? Existing membrane does not have cove open about sealant at these locations.  
A) We will not require additional sealant be applied at these locations.

- f.** Q) Is the contractor responsible for re-locating temporary utilities such as conduit, light fixtures, piping, etc.?  
A) Yes, if utilities are found in areas where work is required other than the brick barrier wall at field level contractor is responsible.
- g.** Q) Will the owner be renumbering the bleacher rows and putting the yellow/black caution markings for the steps?  
A) No, this needs to be part of the restoration.
- h.** Q) We are only removing and reinstalling the bleachers, no cleaning or touch ups/recoat to the mounting brackets?  
A) Correct.
- i.** Q) Is the cove joint around the cast-in-place walkway steps incidental?  
A) Yes.
- j.** Q) Please confirm the 2,400 LF is only for the expansion joint to be replaced and not control or construction joints. If so, can a quantity be given for the control and construction joints?  
A) This is for expansion joints control and construction are incidental to remove and replace pedestrian coating.
- k.** Q) Can an allowance and new bid item be included for any deteriorated conduit, junction boxes and wiring and storm drains and piping that will need to be replaced or repaired?  
A) No, this is incidental to repair work. Owner will remove and re-install items on field level brick barrier wall.
- l.** Q) Can a quantity and new bid item be given for anodes that are required in the concrete repairs?  
A) No, this is part of repair based on quantity and spacing of anodes shown in documents.
- m.** Q) Can a material substitution sheet be provided for submitting alternative products?  
A) Yes, but must follow guidelines found in front-end documents.
- n.** Q) Please confirm this is a sales tax-exempt project.  
A) Confirm with Owner Representative.
- o.** Q) Regarding detail 4/S-200, the detail does not show dowelling in of the capstone to the top of wall when re-installed. Also, no counterflashing at the top of wall is shown. Please verify that neither of these are required for this work.  
A) Yes, these are required. Detail will be corrected in Addendum No. 2.
- p.** Q) Regarding detail 4/S200, the detail is not to scale so Contractor does not know how far the excavation goes or how tall the new ledge is. Please provide an assumed depth to top of footing since this is an unknown buried condition.  
A) We assume frost depth for footing.
- q.** Q) Are there any know buried utilities in the area of the excavation at the new brick ledge and veneer work?  
A) This is unknown and will be addressed during construction.
- r.** Q) Please verify if equipment such as a concrete truck and excavating equipment can be driven on the field apron adjacent to the new brick ledge and veneer work in order to perform work?  
A) These items will be evaluated during construction. Vehicles are permitted in these areas with protection.
- s.** Q) New sod will be required at the brick ledge installation after completion of work. Is this the Contractor's responsibility and if so, what grass type is required?  
A) Owner will provide product type during construction.

- t. Q) There is a wing wall at the south end of the wall rebuild area that is not shown on the drawings as being repaired. Please confirm this wall is to remain in place and no work is to be performed here.  
A) Repairs will be performed in these areas and Addendum #2 will address.
- u. Q) Detail 4/S200 notes that the new ledge is to be poured the “Rapid Set Concrete”. However, in section 033000 – Cast-In-Place Concrete, paragraph 2.11, B, it states the ledge is to be poured with a standard 611 lb/cu.yd. mix with 4% silica fume. Please clarify if a rapid set concrete mix is required here, and if so, please provide required mix design.  
A) Either is acceptable.
- v. Q) At the south end of the brick wall rebuild, south of the stairs where the wall increases in height, there is an electrical box mounted to the wall that will need to be removed/reinstalled for the work to be performed. Please clarify the following: 1) Will this work be performed by MU staff? 2) If not, please provide information on what utilities are contained in this box.  
A) Yes, work will be performed by MU staff.
- w. Q) At the south end of the brick wall rebuild, south of the stairs where the wall increases in height, there is a track surface that will need to be removed in order to excavate for the new ledge installation. Please provide information on what material this is so that reinstallation can be priced accordingly.  
A) Owner will remove and replace if needed.

**PROJECT MANUAL:**

- 1) Remove section 071800 – Pedestrian Coating System and replace with modified section 071800 – Pedestrian Coating System.

**DRAWINGS:**

- 1) Drawing Sheet S000, General Notes and Repair Schedule: **Replace:** “Expansion and Control Joints” from Repair Item R7. **Add:** Detail 7/S-002, **Change Units:** 200 LF for 2” or wider sealant joint, 400 LF for 1” or smaller sealant joint. Replace sheet in its entirety with attached sheet.
- 2) Drawing Sheet S000, General Notes and Repair Schedule: **Add:** Details to Repair Item R8.
- 3) Drawing Sheet S000, General Notes and Repair Schedule: **Add:** Note to R9.
- 4) Drawing Sheet S000, General Notes and Repair Schedule: **Add:** Details to R10.
- 5) Drawing Sheet S-002, Details: **Change:** Detail 6 and **Add:** Detail 7.
- 6) Drawing Sheet S-101J, West Bleacher Plan Area J: **Add:** “Stairs to Field Between Grid Lines 65 and 66 on Grid Line A. Replace sheet in its entirety with attached sheet.
- 7) Drawing Sheet S-200, Detail 4/S200: **Add:** “Notes for Sub-flashing and Capstone Installation”. Replace sheet in its entirety with attached sheet.
- 8) Drawing Sheet SP-101, Existing Conditions Photos: **Add:** “Detail 24” replace sheet in its entirety with attached sheet.
- 9) Drawing Sheet SP-101, Existing Conditions Photos: **Add:** “Detail 25” replace sheet in its entirety with attached sheet.



**END OF ADDENDUM #2**

## SECTION 071800 - PEDESTRIAN COATING SYSTEM

### PART 1 - GENERAL

#### 1.1 RELATED DOCUMENTS

- A. Drawings and General provisions of the Contract, including General and Supplementary Conditions and Division 1 Specifications, apply to this Section.

#### 1.2 SUMMARY

- A. This Section includes pedestrian coatings for the following applications:
  - 1. New pedestrian traffic-bearing waterproofing system for bleachers and elevated slabs, as indicated on drawings.
- B. Related Sections include the following:
  - 1. Division 3 Section "Concrete Restoration."
  - 2. Division 3 Section "Cast-In-Place Concrete."
  - 3. Division 7 Section "Joint Sealants."

#### 1.3 SUBMITTALS

- A. Product Data: For each product indicated.
- B. Shop Drawings: Show extent of each pedestrian coating. Include details for treating substrate joints and cracks, flashings, deck penetrations, and other termination conditions.
- C. Samples for Initial Selection: For each type of finish indicated.
- D. Samples for Verification: For each type of pedestrian coating required, prepared on rigid backing and of same thickness and material indicated for the Work.
- E. Material Test Reports: From a qualified independent testing agency indicating and interpreting test results for compliance of pedestrian coatings with requirements, based on comprehensive testing of current product formulations within the last three years.
- F. Material Certificates: Signed by manufacturer certifying that the pedestrian coatings comply with requirements, based on comprehensive testing or current product formulations within the last three years.
- G. Maintenance Data: To include in maintenance manuals specified in Division 1. Identify substrates and types of pedestrian coatings applied. Include recommendations for periodic

inspections, cleaning, care, maintenance, repair of pedestrian coatings and winter weather preparations. Specify how to properly remove snow and treat pedestrian coating for de-icing.

- H. Letter of certification from the pedestrian coatings manufacturer stating that the submitted pedestrian coating system is compatible in the specified thickness.
- I. Letter of certification from the pedestrian coatings manufacturer stating that the installer is approved by the manufacturer.

#### 1.4 QUALITY ASSURANCE

- A. Installer (Applicator) Qualifications: An experienced applicator who has specialized in installing work similar in material, design, and extend to that indicated for this Project and who is certified by manufacturer. Installer must have successfully completed at least three projects similar in nature to this project using the submitted pedestrian coating system within the last five years. Installer shall have a minimum of five years' experience.
  - 1. Certification: Written approval or license of applicator by pedestrian coating manufacturer.
- B. Installation of pedestrian coatings shall be performed under the immediate control of a superintendent experienced in this type of installation. The superintendent shall have supervised a minimum of three projects similar in scope and magnitude. The installer shall submit the superintendent's name and experience record for review and acceptance by the Owner.
- C. A representative of the pedestrian coating manufacturer shall observe the condition of the substrate prior to installation of the pedestrian coatings. Any unacceptable conditions must be reported to the Owner and contractor in writing and shall be corrected prior to start of installation. Starting installation of the pedestrian coatings shall constitute acceptance of the condition of the substrate. A record of the manufacturer's representative's observations shall be submitted to the Owner.
- D. A representative of the pedestrian coatings manufacturer shall be present during the first two days of the application of pedestrian coatings, and at least four other days during the duration of the installation of the pedestrian coatings. If more frequent visits are deemed necessary by the manufacturer's representative, they shall be made at no additional cost to the Owner. A record of the manufacturer's representative's observations shall be submitted to the Owner.
- E. Source Limitations: As follows:
  - 1. Use pedestrian coatings of a single manufacturer.
  - 2. Obtain primary pedestrian coating materials, including primers, from pedestrian coating manufacturer. Obtain secondary materials including aggregates, sheet flashings, joint sealants, and substrate repair materials of type and from source recommended by pedestrian coating manufacturer.
- F. Preinstallation Conference: Conduct conference at Project site to comply with requirements stated in Project Manual.

1. Before installing pedestrian coatings, meet with representatives of manufacturer's representative, Owner, consultants, and contractor. Review requirements for pedestrian coatings. Notify participants at least seven days before conference.

G. Mockups: Apply mockups to set quality standards for materials and execution.

1. After membrane removal, consultant will select one representative area for the pedestrian coating mockup. Apply deck coating to at least 200 sq. ft. to demonstrate surface preparation, joint and crack treatment, thickness, texture, color, and standard of workmanship.
2. Remove and reapply mockups until they are approved by consultant.
3. Approved mockup may become part of the completed Work if undisturbed at time of Substantial Completion.

1.5 DELIVERY, STORAGE, AND HANDLING

A. Deliver materials in original packages and containers with seals unbroken and bearing manufacturer's labels showing the following information:

1. Manufacturer's brand name.
2. Type of material.
3. Directions for storage.
4. Date of manufacture and shelf life.
5. Lot or batch number.
6. Mixing and application instructions.
7. Color.

B. Store materials in a clean, dry location protected from exposure to direct sunlight. In storage areas, maintain environmental conditions within range recommended in writing by manufacturer.

1.6 PROJECT CONDITIONS

A. Environmental Limitations: Apply pedestrian coatings within the range of ambient and substrate temperatures recommended in writing by manufacturer. Do not apply pedestrian coatings to damp or wet substrates, when temperatures are below 50 deg F (5 deg C), when relative humidity exceeds 85 percent, or when temperatures are less than 5 deg F (3 deg C) above dew point.

1. Do not apply pedestrian coatings in snow, rain, fog, or mist, or when such weather conditions are imminent during the application and curing period. Apply only when frost-free conditions occur throughout the depth of the substrate.

1.7 WARRANTY

A. Special Warranty: Manufacturer's *Joint and Several Warranty*, in which pedestrian coating manufacturer and licensed applicator agrees to repair or replace pedestrian coatings that

deteriorate during the specified warranty period. Warranty does not include deterioration or failure of pedestrian coating due to unusual weather phenomena, failure of prepared and treated substrate, formation of new substrate cracks exceeding 1/16 inch (1.6 mm) in width, fire, vandalism, or abuse by snowplow, maintenance equipment.

1. Unacceptable deterioration of pedestrian coatings includes but is not limited to the following:
  - a. Adhesive or cohesive failures.
  - b. Abrasion or tearing failures.
  - c. Surface crazing or spalling.
  - d. Intrusion of water, oils, gasoline, grease, salt, deicer chemicals, or acids into deck substrate.
2. Warranty Period: Five years from date of Substantial Completion.

## PART 2 - PRODUCTS

### 2.1 MATERIALS

- A. Pedestrian Coatings: Complying with ASTM C 957.
- B. VOC Content: Provide pedestrian coatings for use inside the weatherproofing system, with VOC content of 150 g/L when calculated according to 40 CFR 59, Subpart D (EPA Method 24).
- C. Material Compatibility: Provide primers; base, intermediate, and topcoats; and miscellaneous materials that are compatible with one another and with substrate under conditions of service and application, as demonstrated by manufacturer based on testing and field experience.

### 2.2 PEDESTRIAN COATING SYSTEM

- A. Basis of Design: Sikalastic 710, 715, 735 AL Pedestrian Traffic System; heavy-duty vehicular traffic-bearing waterproofing system
- B. Products: Subject to compliance with requirements, provide one of the following:
  1. Neogard, Division of Jones-Blair; 'Peda-Gard System.
  2. Sika Sikalastic 710/715 Textured/735 Top Textured Traffic System.
  3. Master Seal Pedestrian Traffic 1500.
- C. Primer: Manufacturer's standard factory-formulated primer recommended for substrate and conditions indicated.
  1. Material: Epoxy or Urethane, as designated by manufacturer for substrate conditions. Note that existing pedestrian coating is a urethane material, and that complete removal of the existing membrane (e.g., milling, grinding, etc.) is required. The contractor shall

provide a written manufacturers' statement regarding the required surface preparation, type of primer and recommended procedure for membrane adhesion testing.

2. *Alternative Material: (To be used if curing time of concrete is longer than schedule will allow or slab-on-grade areas).* Apply epoxy pre-primer with/and MVT retarder. The contractor shall provide a written manufacturers' statement regarding the required surface preparation, type of primer and recommended procedure for new pedestrian membrane adhesion testing. Additional testing for Moisture vapor admissions is required to complete the application.

a. Products:

- 1) Manufacturers approved primer and Aquafin SG2, or SG3.
- 2) Manufacturers approved primer and Miracote MVER II.
- 3) Sika Sikaflex MB Redline.

D. Base/Detail Coats: Single component, aromatic liquid urethane elastomeric.

E. Intermediate Coat: Single component, aromatic liquid urethane elastomeric.

F. Topcoat: Single component, liquid urethane elastomeric.

1. Color: Final color selection to be approved by Owner and consultant.

G. Component Coat Thicknesses for New Installation: As recommended by manufacturer for substrate and service conditions indicated, but not less than the following (measured excluding aggregate):

1. Primer: Apply specified primer at 300 sqft per gal.
2. Base Coat: Minimum 23 mils dry film thickness (dft). Note that base coat shall be applied somewhat thicker in depressed, ponding-water areas so as to promote positive sheet flow drainage towards the slab drains in the garage. Coordinate these locations and application with the consultant.
3. Intermediate Coat(s): Minimum 12 mils dft for the second, double-textured intermediate coat.
4. Topcoat: Minimum of 14 mils dft in sand broadcasted areas.
5. Total System Thickness: 49 mils (minimum).

H. If multiple coats are required to achieve specified mil thickness, or increased mil thickness are required for performance of the product selected, installer shall provide at no additional cost to the Owner.

I. Aggregate:

1. Uniformly graded, washed silica sand (16/30 mesh) for all drive lanes (except for ramps), parking stalls and non-driving designated areas, of particle sizes, shape, and minimum hardness recommended in writing by pedestrian coating manufacturer.
2. Spreading Rate: As recommended by manufacturer for the specified system, substrate, type of aggregate, location and service conditions indicated.

## 2.3 MISCELLANEOUS MATERIALS

- A. Joint Sealants: As specified in Division 07 Section "Joint Sealants."

## PART 3 - EXECUTION

### 3.1 EXAMINATION

- A. Examine substrates, with Installer present, for compliance with requirements and for other conditions affecting performance of pedestrian coatings.
1. For the record, prepare written report, endorsed by Installer, listing conditions detrimental to performance.
  2. Verify compatibility with and suitability of substrates.
  3. Perform pull tests per manufacturer's recommendations on existing pedestrian membrane system in areas of repairs shown on drawings.
  4. Begin coating application only after minimum concrete curing and drying period recommended by pedestrian coating manufacturer has passed, after unsatisfactory conditions have been corrected, and after surfaces are dry.
  5. Verify that substrates are visibly dry and free of moisture.
    - a. Test for moisture vapor transmission by plastic sheet method according to ASTM D 4263.
  6. Application of coating indicates acceptance of surfaces and conditions.

### 3.2 PREPARATION

- A. Clean and prepare substrates according to ASTM C 1127 and manufacturer's written recommendations to produce clean, dust-free, dry substrate for pedestrian coating application. Power wash existing slab surfaces with trisodium phosphate (TSP) or citric acid solution to ensure that all surface contaminants have been removed prior to deck coating application.
- B. Mask adjoining surfaces not receiving pedestrian coatings, deck drains, and other deck substrate penetrations to prevent spillage, leaking, and migration of coatings.
- C. Concrete Substrates: Remove/mill existing deck coating and perform all concrete repairs, mechanically abrade concrete surfaces by shotblasting to a uniform profile according to ICRI CSP 3 – 4 and ASTM D 4259. Do not acid etch.
1. Remove grease, oil, paints, and other penetrating contaminants from concrete.
  2. Remove concrete fins, ridges, and other projections.
  3. Remove laitance, glaze, efflorescence, curing compounds, concrete hardeners, form-release agents, and other incompatible materials that might affect coating adhesion.
  4. Remove remaining loose material to provide a sound surface, and clean surfaces according to ASTM D 4258.

D. Existing Membrane Substrates

1. Power wash deck coating system per manufacturer's recommendations.
2. Verify new pedestrian coating system will adhere to existing following manufacturer's recommendations.

3.3 TERMINATIONS AND PENETRATIONS

- A. Prepare vertical and horizontal surfaces at terminations and penetrations through pedestrian coatings and at expansion joints, drains, and sleeves according to ASTM C 1127 and manufacturer's written recommendations.
- B. Provide sealant cants at penetrations and at reinforced and non-reinforced, deck-to-wall butt joints.
- C. Terminate edges of deck-to-deck expansion joints and pour strips with preparatory base-coat strip.
- D. Install sheet flashings at deck-to-wall expansion and dynamic joints, and bond to deck and wall substrates according to manufacturer's written recommendations.

3.4 JOINT AND CRACK TREATMENT

- A. Prepare, treat, rout, and fill joints and cracks in substrates according to ASTM C 1127 and manufacturer's written recommendations. Before coating surfaces, remove dust and dirt from joints and cracks according to ASTM D 4258.

3.5 PEDESTRIAN COATING APPLICATION

- A. Apply pedestrian coating material according to ASTM C 1127 and manufacturer's written recommendations.
  1. Verify that wet film thickness of each component coat complies with requirements.
  2. Apply base/detail coats in drain and low/ponding areas at thicker millage (> 30 mils dft) to increase protection and ensure positive drainage to the existing and new slab drains.
  3. Notify consultant of adverse drainage conditions that may inhibit positive sheet flow to the slab drains prior to application. All slab areas of the upper parking level following pedestrian membrane application must provide positive sheet drainage to drains. If existing low slab areas exceed the manufacturer's recommended maximum thickness for base coat build-up (e.g. > 1/4" depth), the use of a cementitious horizontal, fast-cure repair mortar to fill, shape and feather low slab areas is acceptable.
- B. Apply pedestrian coatings to prepared wall terminations and vertical surfaces to height indicated or existing, and omit aggregate on vertical surfaces.

- C. Cure pedestrian coatings according to manufacturer's written recommendations. Prevent contamination and damage during application and curing stages.
- D. Coordinate pedestrian coating applications with owner representative.

3.6 PROTECTING AND CLEANING

- A. Protect pedestrian coatings from damage and wear during remainder of construction period.
- B. Clean spillage from adjacent construction using cleaning agents and procedures recommended by manufacturer of affected construction.

END OF SECTION 071800

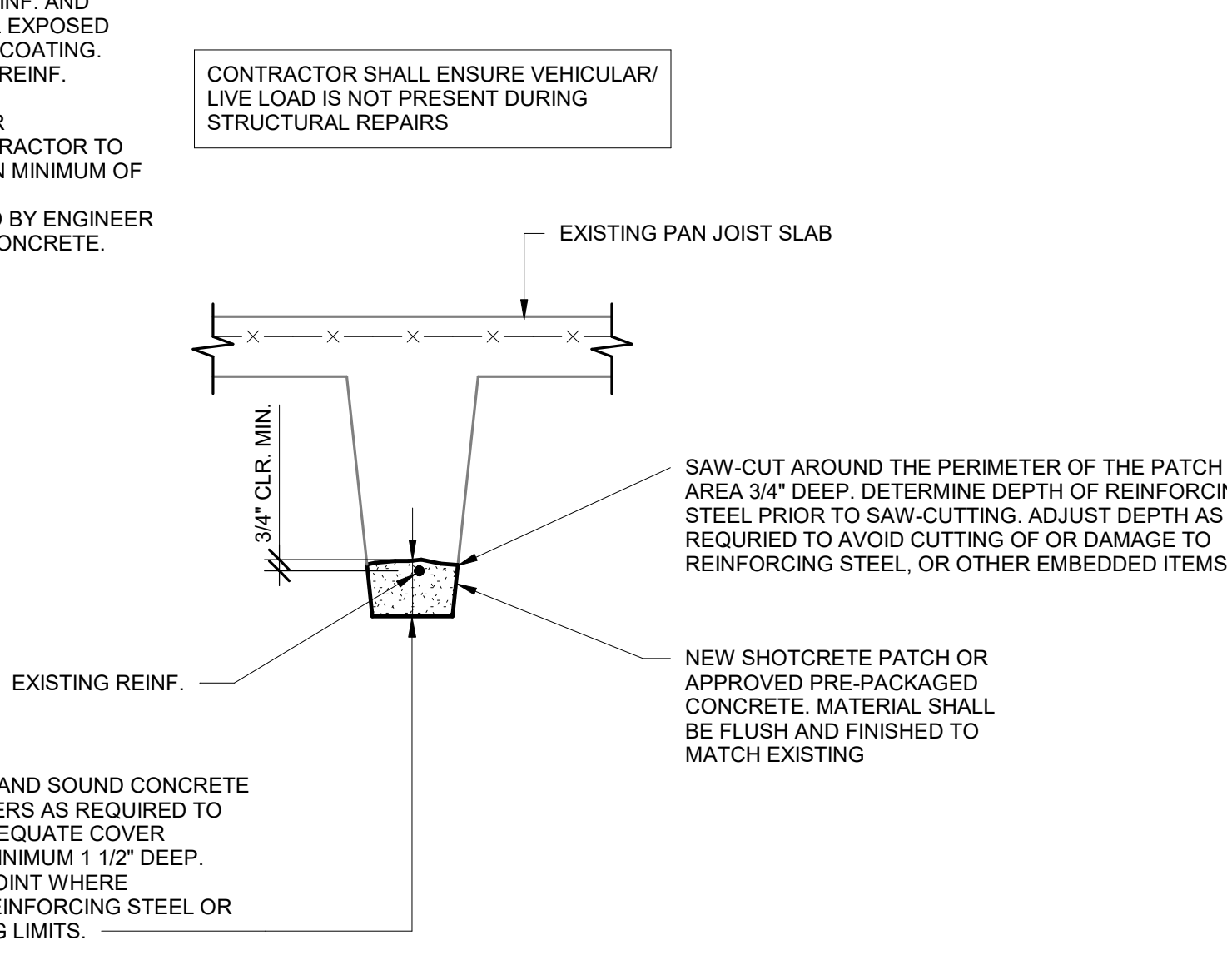


**REVISIONS:**

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| 1 | 10/31/2025 | ADDENDUM #2 |
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**4 SHALLOW SURFACE RIB REPAIR**  
N.T.S.

NOTES:  
 1. SANDBLAST CLEAN ALL EXPOSED REINF. AND OTHER EMBEDDED METAL. COAT ALL EXPOSED REINF. WITH CORROSION INHIBITING COATING. COAT FACES OF CONCRETE WHERE REINF. ENTERS EXISTING CONCRETE.  
 2. IF EXISTING CONCRETE COVER OVER REINFORCING IS LESS THAN 1" CONTRACTOR TO ADJUST PATCHED AREA TO MAINTAIN MINIMUM OF 1" COVERAGE TYP.  
 3. ALL REPAIR AREAS TO BE APPROVED BY ENGINEER OF RECORD PRIOR TO INSTALLING CONCRETE.



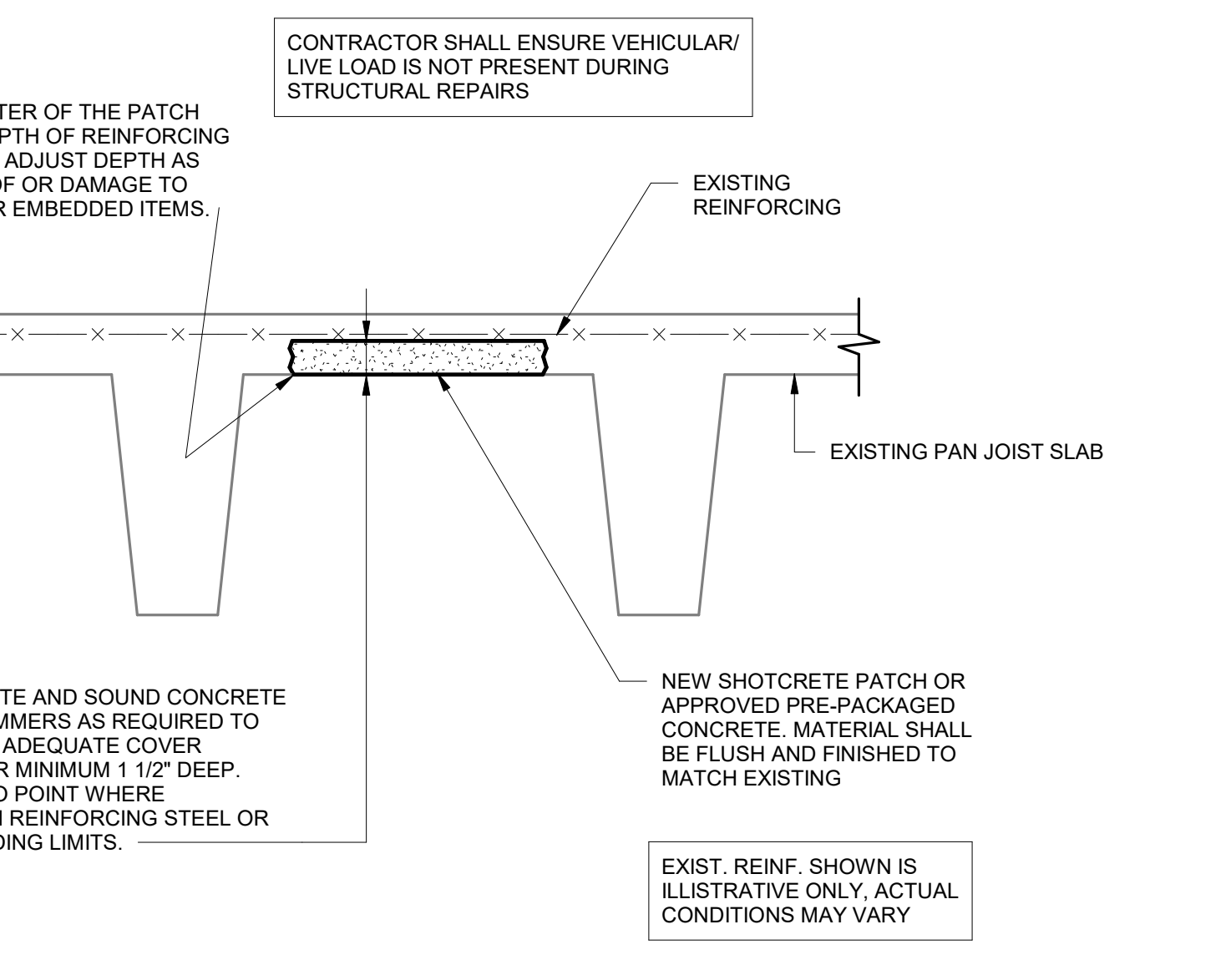
REMOVE ALL UNSOUND CONCRETE AND SOUND CONCRETE WITH MINIMUM 15# CHIPPING HAMMERS AS REQUIRED TO MAINTAIN MINIMUM DEPTHS AND ADEQUATE COVER AROUND REINFORCING STEEL OR MINIMUM 1 1/2" DEEP. EXTEND CONCRETE REMOVAL TO POINT WHERE CORROSION IS NOT PRESENT ON REINFORCING STEEL OR A MINIMUM OF 4" BEYOND SOUNDING LIMITS.

EXIST. REINF. SHOWN IS ILLUSTRATIVE ONLY. ACTUAL CONDITIONS MAY VARY.

CONTRACTOR SHALL ENSURE VEHICULAR/LIVE LOAD IS NOT PRESENT DURING STRUCTURAL REPAIRS.

**3 PARTIAL DEPTH PAN JOIST SOFFIT REPAIR**  
N.T.S.

NOTES:  
 1. SANDBLAST CLEAN ALL EXPOSED REINF. AND OTHER EMBEDDED METAL. COAT ALL EXPOSED REINF. WITH CORROSION INHIBITING COATING. COAT FACES OF CONCRETE WHERE REINF. ENTERS EXISTING CONCRETE.  
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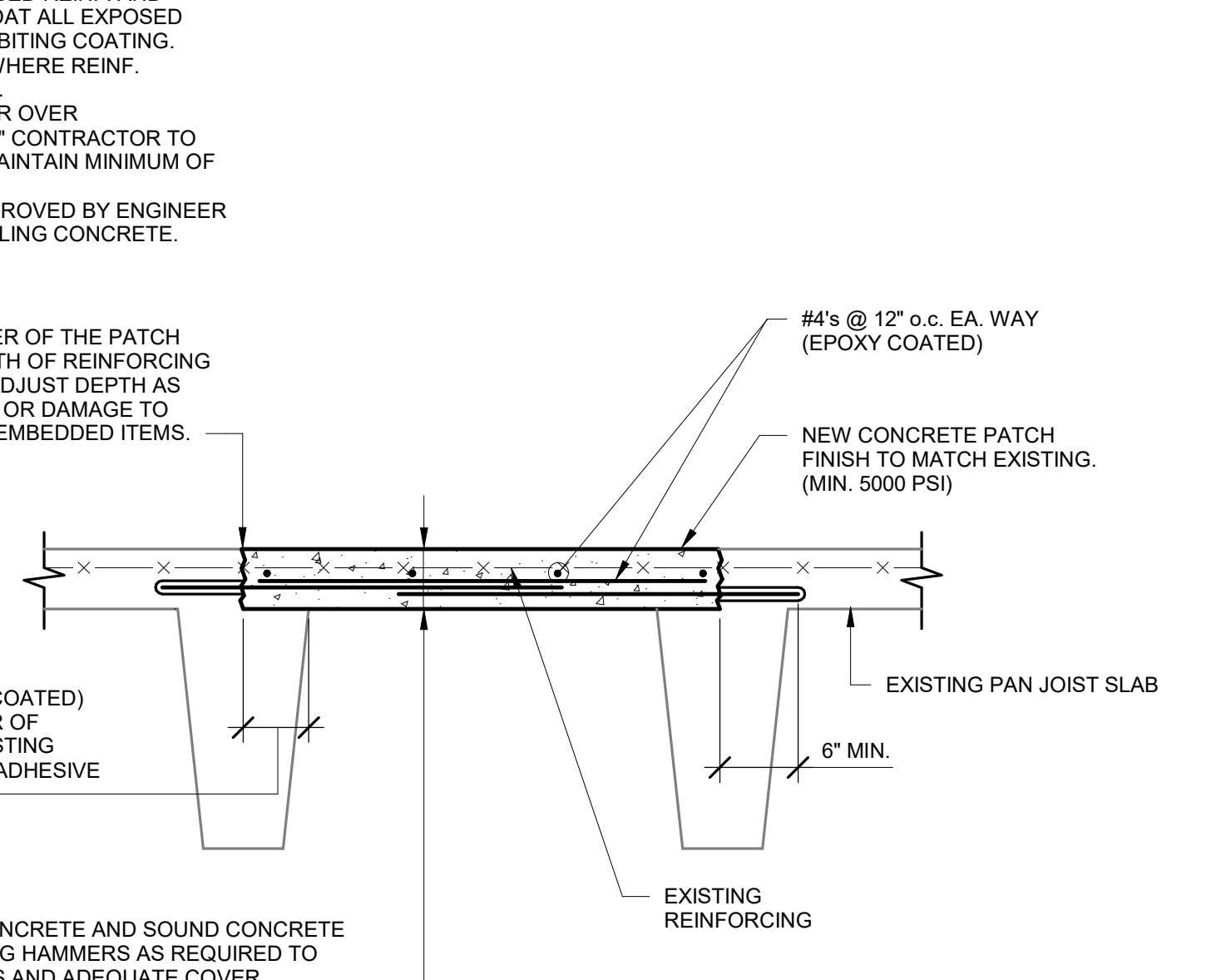
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EXIST. REINF. SHOWN IS ILLUSTRATIVE ONLY. ACTUAL CONDITIONS MAY VARY.

CONTRACTOR SHALL ENSURE VEHICULAR/LIVE LOAD IS NOT PRESENT DURING STRUCTURAL REPAIRS.

**2 FULL DEPTH PAN JOIST REPAIR**  
N.T.S.

NOTES:  
 1. SANDBLAST CLEAN ALL EXPOSED REINF. AND OTHER EMBEDDED METAL. COAT ALL EXPOSED REINF. WITH CORROSION INHIBITING COATING. COAT FACES OF CONCRETE WHERE REINF. ENTERS EXISTING CONCRETE.  
 2. IF EXISTING CONCRETE COVER OVER REINFORCING IS LESS THAN 1" CONTRACTOR TO ADJUST PATCHED AREA TO MAINTAIN MINIMUM OF 1" COVERAGE TYP.  
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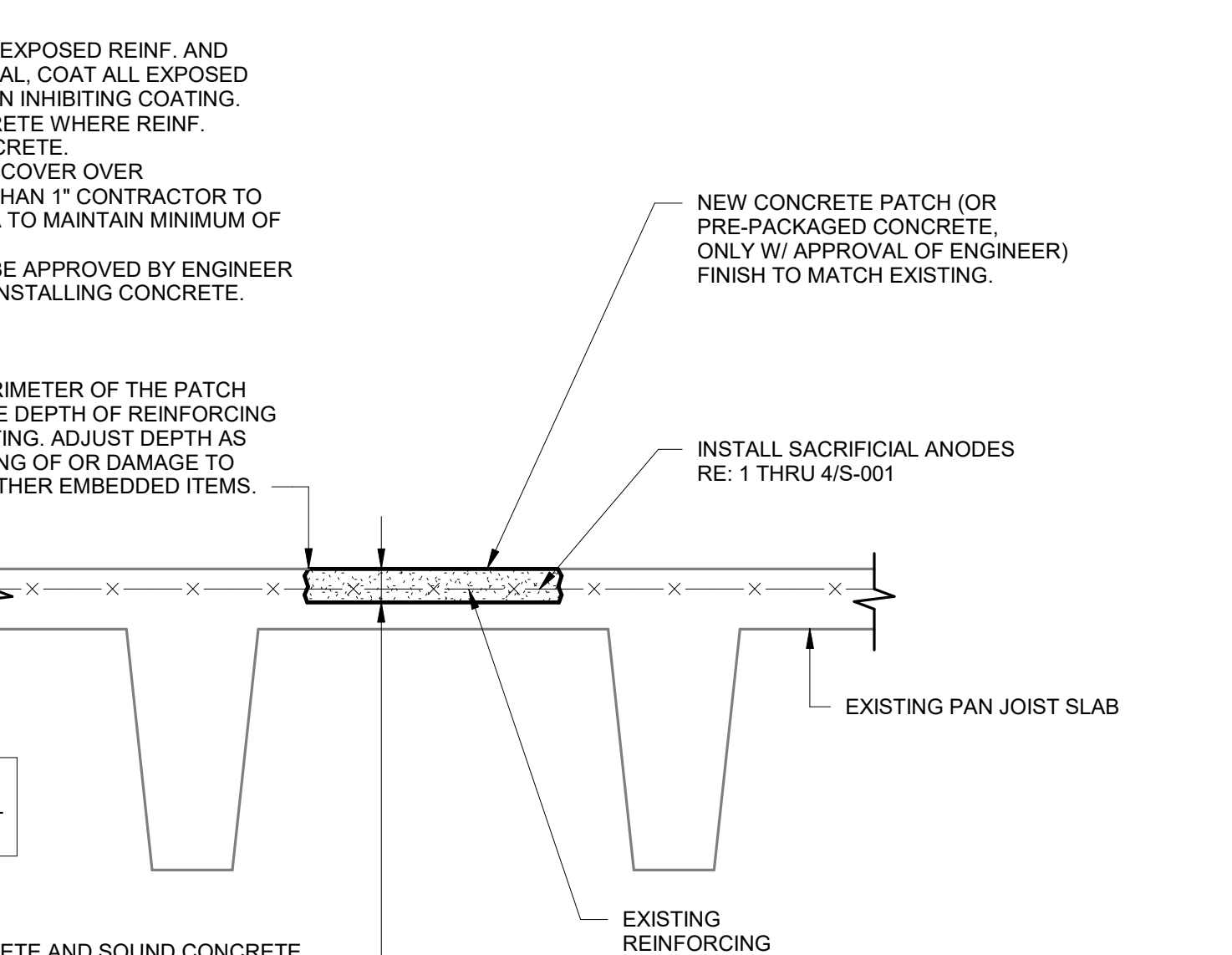
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EXIST. REINF. SHOWN IS ILLUSTRATIVE ONLY. ACTUAL CONDITIONS MAY VARY.

CONTRACTOR SHALL ENSURE VEHICULAR/LIVE LOAD IS NOT PRESENT DURING STRUCTURAL REPAIRS.

**1 PARTIAL DEPTH TOP DELAMINATION REPAIR**  
N.T.S.

NOTES:  
 1. SANDBLAST CLEAN ALL EXPOSED REINF. AND OTHER EMBEDDED METAL. COAT ALL EXPOSED REINF. WITH CORROSION INHIBITING COATING. COAT FACES OF CONCRETE WHERE REINF. ENTERS EXISTING CONCRETE.  
 2. IF EXISTING CONCRETE COVER OVER REINFORCING IS LESS THAN 1" CONTRACTOR TO ADJUST PATCHED AREA TO MAINTAIN MINIMUM OF 1" COVERAGE TYP.  
 3. ALL REPAIR AREAS TO BE APPROVED BY ENGINEER OF RECORD PRIOR TO INSTALLING CONCRETE.



REMOVE ALL UNSOUND CONCRETE AND SOUND CONCRETE WITH MINIMUM 15# CHIPPING HAMMERS AS REQUIRED TO MAINTAIN MINIMUM DEPTHS AND ADEQUATE COVER AROUND REINFORCING STEEL OR MINIMUM 1 1/2" DEEP. EXTEND CONCRETE REMOVAL TO POINT WHERE CORROSION IS NOT PRESENT ON REINFORCING STEEL OR A MINIMUM OF 4" BEYOND SOUNDING LIMITS.

EXIST. REINF. SHOWN IS ILLUSTRATIVE ONLY. ACTUAL CONDITIONS MAY VARY.

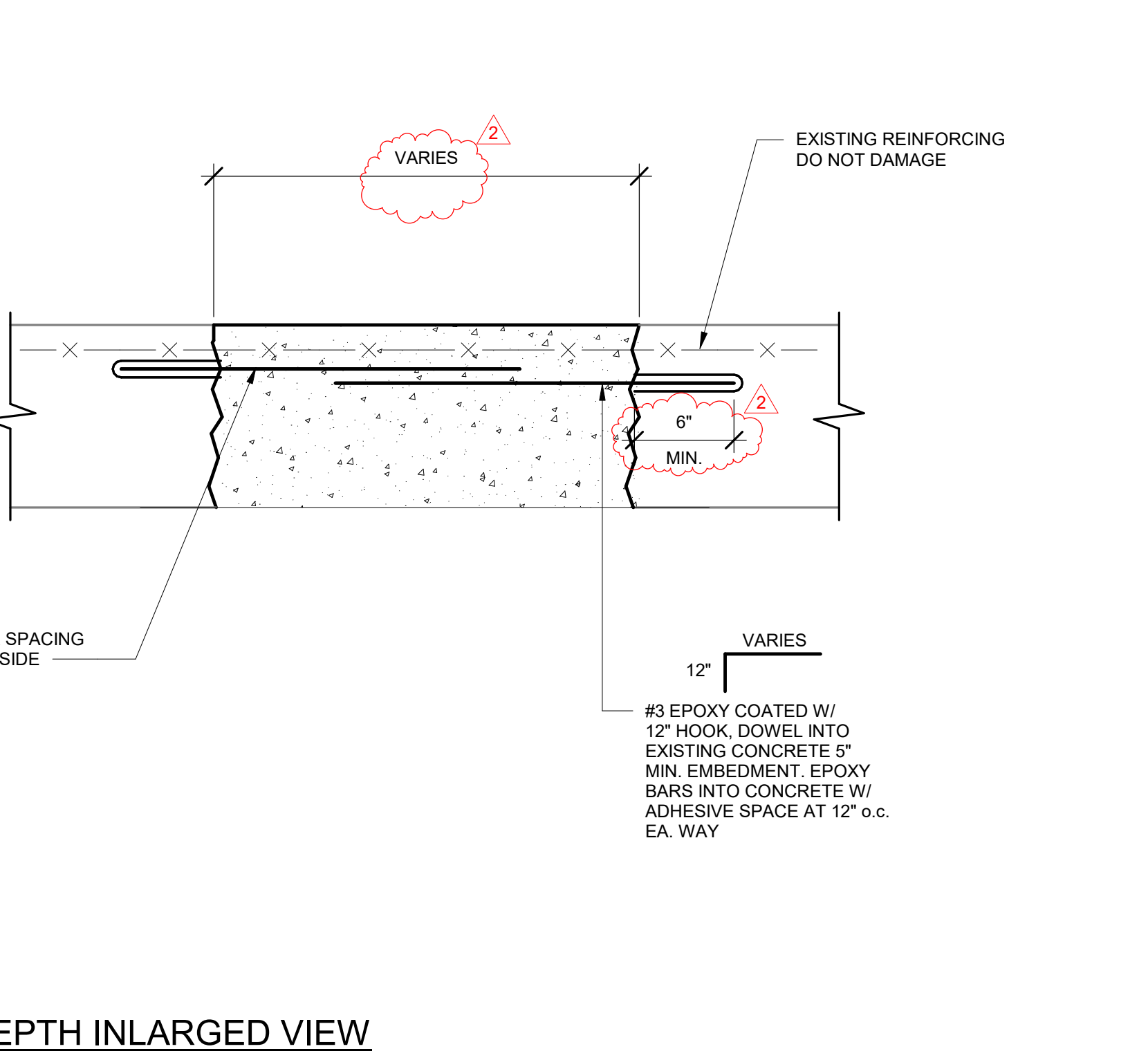
CONTRACTOR SHALL CHAIN DRAG ALL AREAS OF REPAIR TO VERIFY REPAIR LOCATIONS AND QUANTITIES.

**7 TYPICAL EXPANSION JOINT DETAIL**  
1" = 1'-0"



(1) COAT OF NEW TOP COAT  
 (2) COAT NEW REBAR W/ (2) COATS OF NEW WEAR COURSE  
 4'-6" TYP.  
 FIRST DETAIL COAT W/ 8000 TIE-FLEX FABRIC OR APPROVED EQUAL  
 TOPPING SLAB  
 EXISTING MEMBRANE SYSTEM  
 CLOSED CELL BACKER ROD W/ URETHANE SEALANT  
 PRE-STRESSED DOUBLE TEE

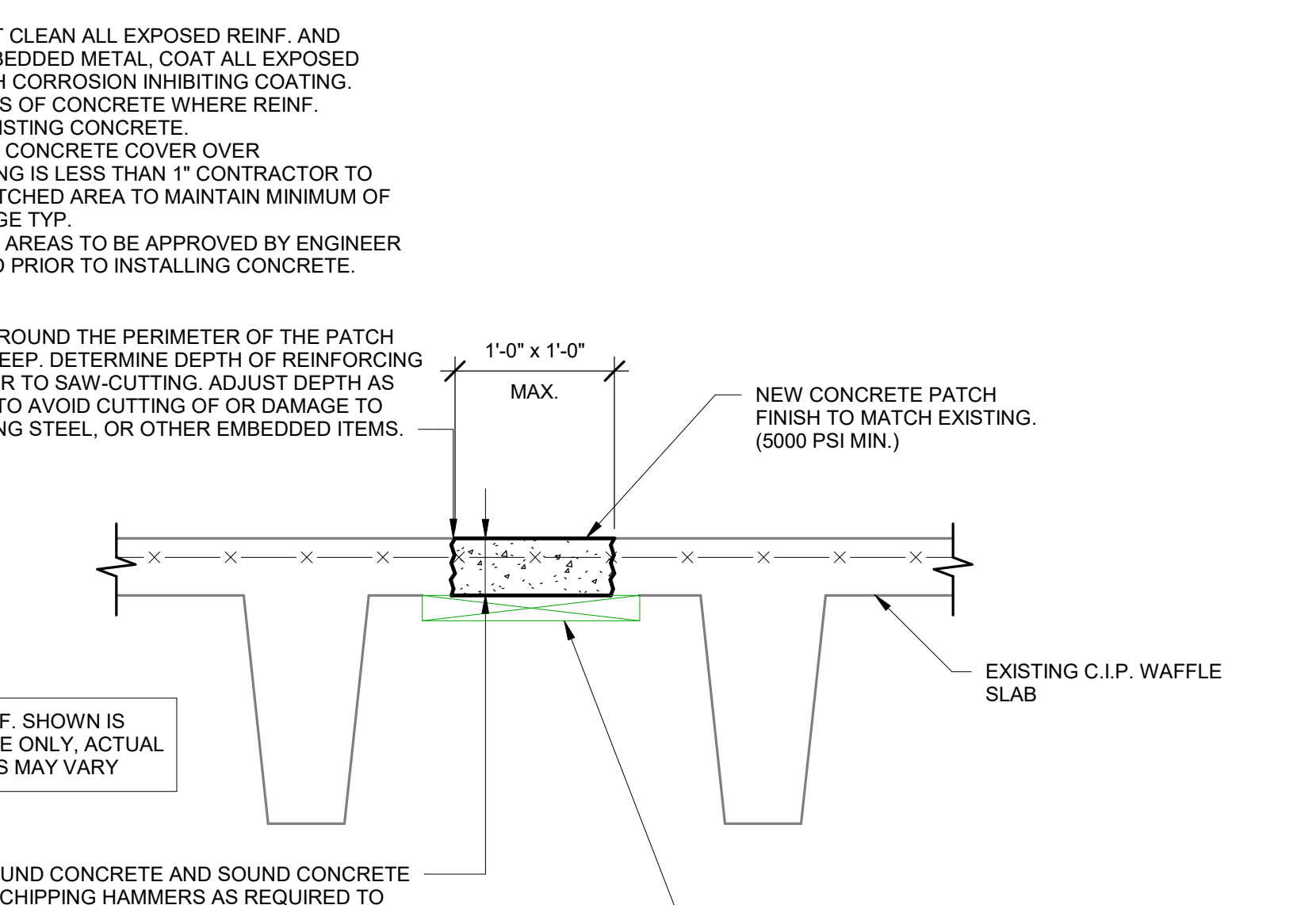
**6 FULL DEPTH INLARGED VIEW**  
N.T.S.



EXISTING REINFORCING DO NOT DAMAGE  
 6" MIN.  
 12" VARIES  
 #3 EPOXY COATED W/ 12" HOOK DOWEL INTO EXISTING CONCRETE 5" MIN. EMBEDMENT. EPOXY BARS INTO CONCRETE W/ ADHESIVE SPACE AT 12" o.c. EA. WAY  
 STAGGER BAR SPACING ON OPPOSITE SIDE  
 VARIES

**5 FULL DEPTH PAN JOIST REPAIR**  
N.T.S.

NOTES:  
 1. SANDBLAST CLEAN ALL EXPOSED REINF. AND OTHER EMBEDDED METAL. COAT ALL EXPOSED REINF. WITH CORROSION INHIBITING COATING. COAT FACES OF CONCRETE WHERE REINF. ENTERS EXISTING CONCRETE.  
 2. IF EXISTING CONCRETE COVER OVER REINFORCING IS LESS THAN 1" CONTRACTOR TO ADJUST PATCHED AREA TO MAINTAIN MINIMUM OF 1" COVERAGE TYP.  
 3. ALL REPAIR AREAS TO BE APPROVED BY ENGINEER OF RECORD PRIOR TO INSTALLING CONCRETE.



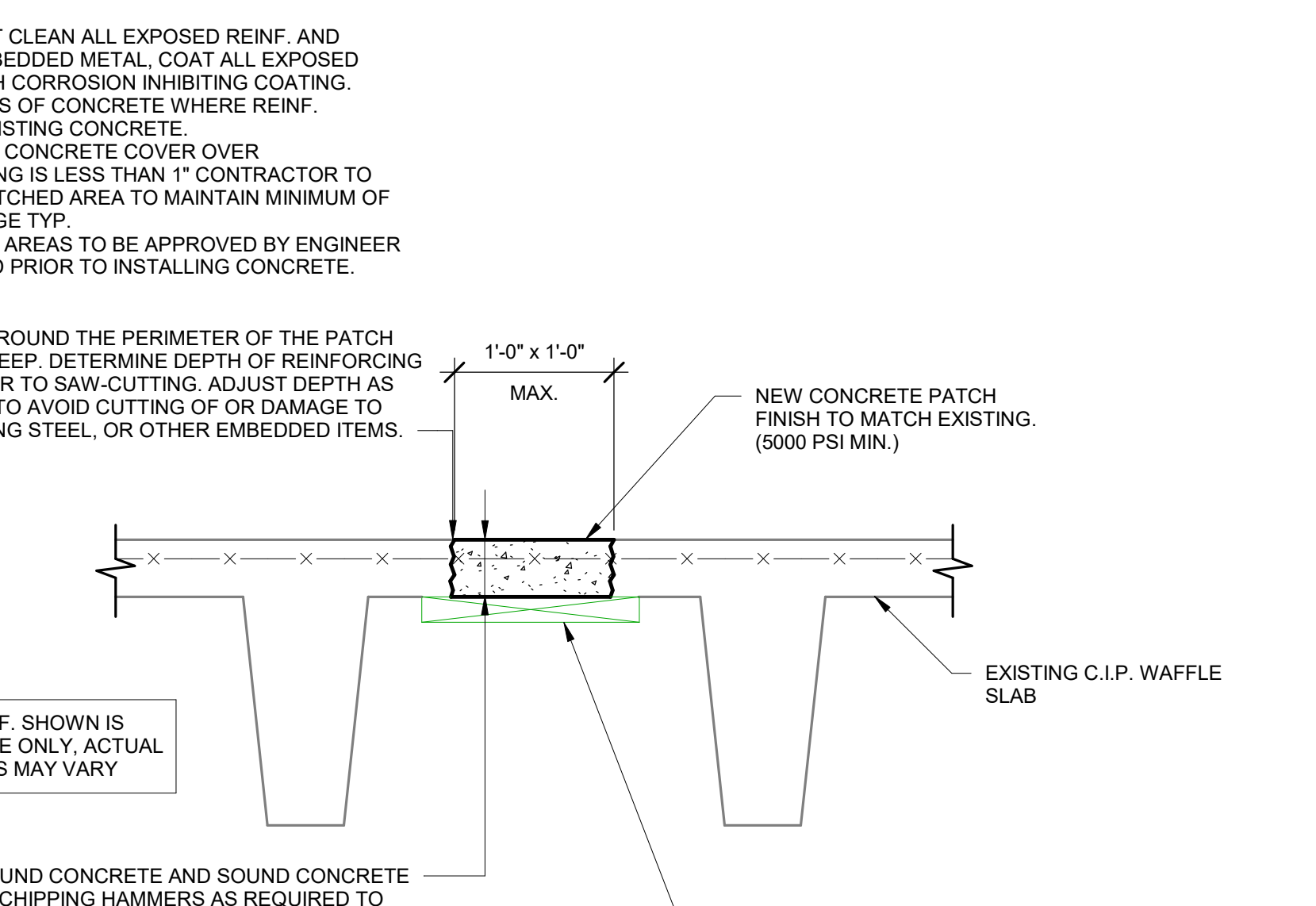
REMOVE ALL UNSOUND CONCRETE AND SOUND CONCRETE WITH MINIMUM 15# CHIPPING HAMMERS AS REQUIRED TO MAINTAIN MINIMUM DEPTHS AND ADEQUATE COVER AROUND REINFORCING STEEL OR MINIMUM 1 1/2" DEEP. EXTEND CONCRETE REMOVAL TO POINT WHERE CORROSION IS NOT PRESENT ON REINFORCING STEEL OR A MINIMUM OF 4" BEYOND SOUNDING LIMITS.

EXIST. REINF. SHOWN IS ILLUSTRATIVE ONLY. ACTUAL CONDITIONS MAY VARY.

CONTRACTOR SHALL CHAIN DRAG ALL AREAS OF REPAIR TO VERIFY REPAIR LOCATIONS AND QUANTITIES.

**4 SHALLOW SURFACE RIB REPAIR**  
N.T.S.

NOTES:  
 1. SANDBLAST CLEAN ALL EXPOSED REINF. AND OTHER EMBEDDED METAL. COAT ALL EXPOSED REINF. WITH CORROSION INHIBITING COATING. COAT FACES OF CONCRETE WHERE REINF. ENTERS EXISTING CONCRETE.  
 2. IF EXISTING CONCRETE COVER OVER REINFORCING IS LESS THAN 1" CONTRACTOR TO ADJUST PATCHED AREA TO MAINTAIN MINIMUM OF 1" COVERAGE TYP.  
 3. ALL REPAIR AREAS TO BE APPROVED BY ENGINEER OF RECORD PRIOR TO INSTALLING CONCRETE.



REMOVE ALL UNSOUND CONCRETE AND SOUND CONCRETE WITH MINIMUM 15# CHIPPING HAMMERS AS REQUIRED TO MAINTAIN MINIMUM DEPTHS AND ADEQUATE COVER AROUND REINFORCING STEEL OR MINIMUM 1 1/2" DEEP. EXTEND CONCRETE REMOVAL TO POINT WHERE CORROSION IS NOT PRESENT ON REINFORCING STEEL OR A MINIMUM OF 4" BEYOND SOUNDING LIMITS.

EXIST. REINF. SHOWN IS ILLUSTRATIVE ONLY. ACTUAL CONDITIONS MAY VARY.

CONTRACTOR SHALL ENSURE VEHICULAR/LIVE LOAD IS NOT PRESENT DURING STRUCTURAL REPAIRS.





**STRUCTURAL  
ENGINEERING  
ASSOCIATES**

1000 Walnut  
Suite 1570  
Kansas City, Missouri 64105  
(816) 421 - 1042  
FAX: (816) 421 - 1061  
Missouri Certificate of Authority  
Number: 00039

**MEMORIAL STADIUM  
WEST BLEACHERS IMPROVEMENTS-RENOVATIONS**  
 UNIVERSITY OF MISSOURI  
 600 STADIUM BLVD  
 COLUMBIA, MO 65211

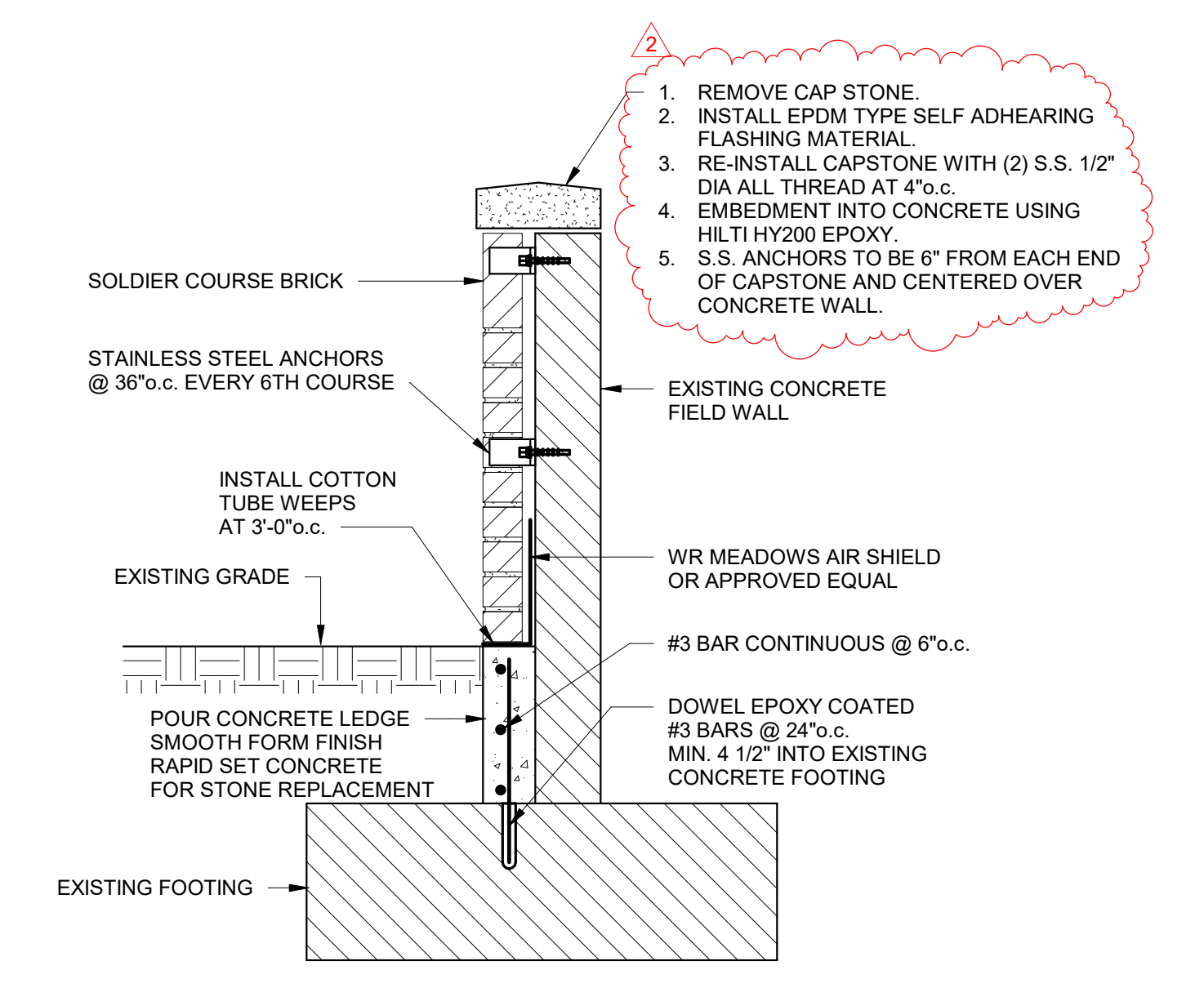
BID DOCUMENTS  
 DRAWN BY  
 G.E.B.  
 CHECK BY  
 W.A.C. & K.J.M.  
 SEA PROJECT NO.  
 2024040  
 MU PROJECT NO.  
 CP262031  
 DATE  
 09/22/2025

REVISIONS:

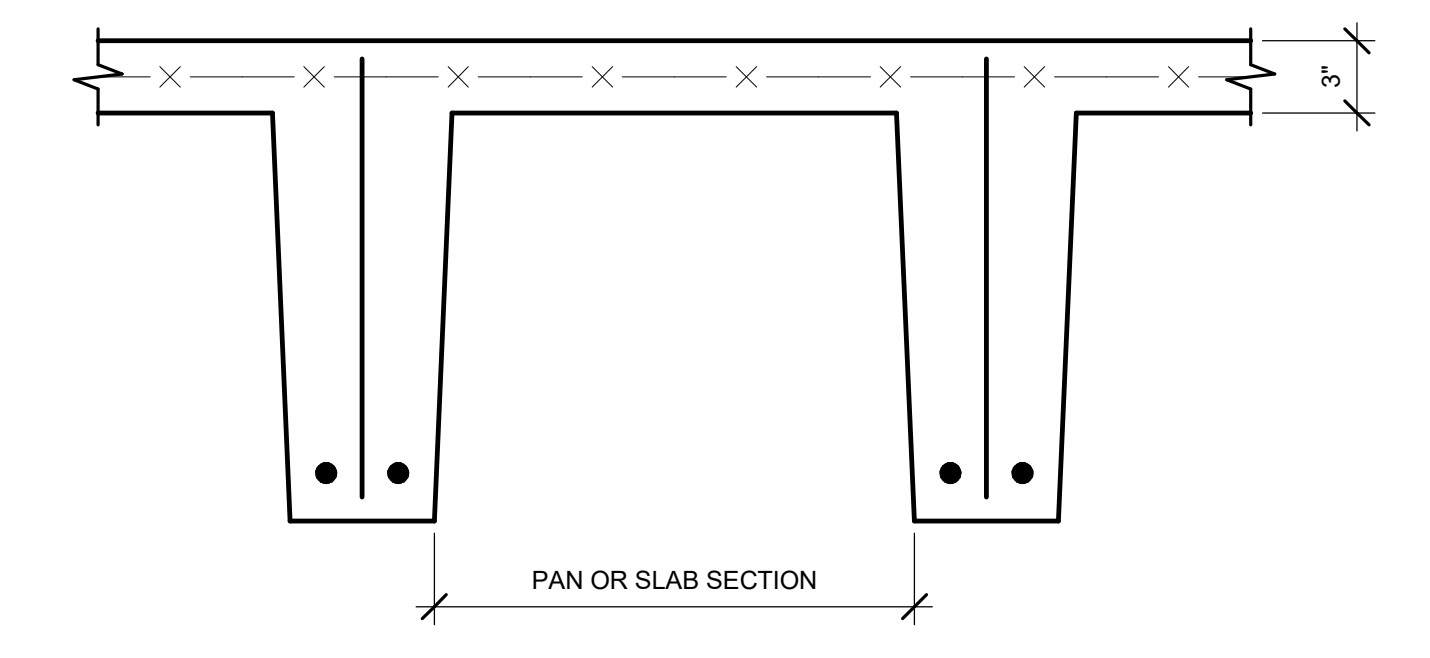
|            |             |
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| 10/31/2025 | ADDENDUM #2 |
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DETAILS

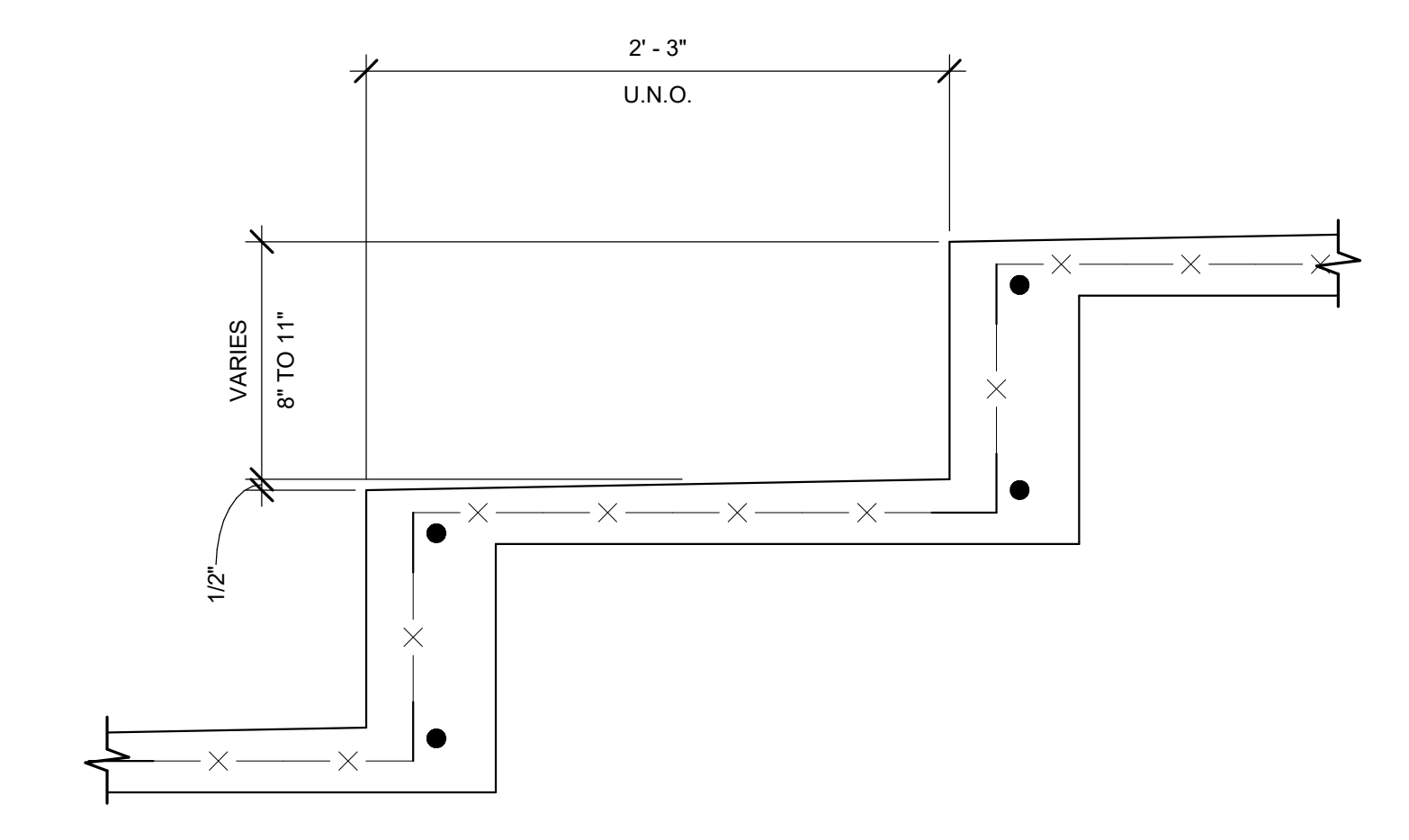
**S-200**



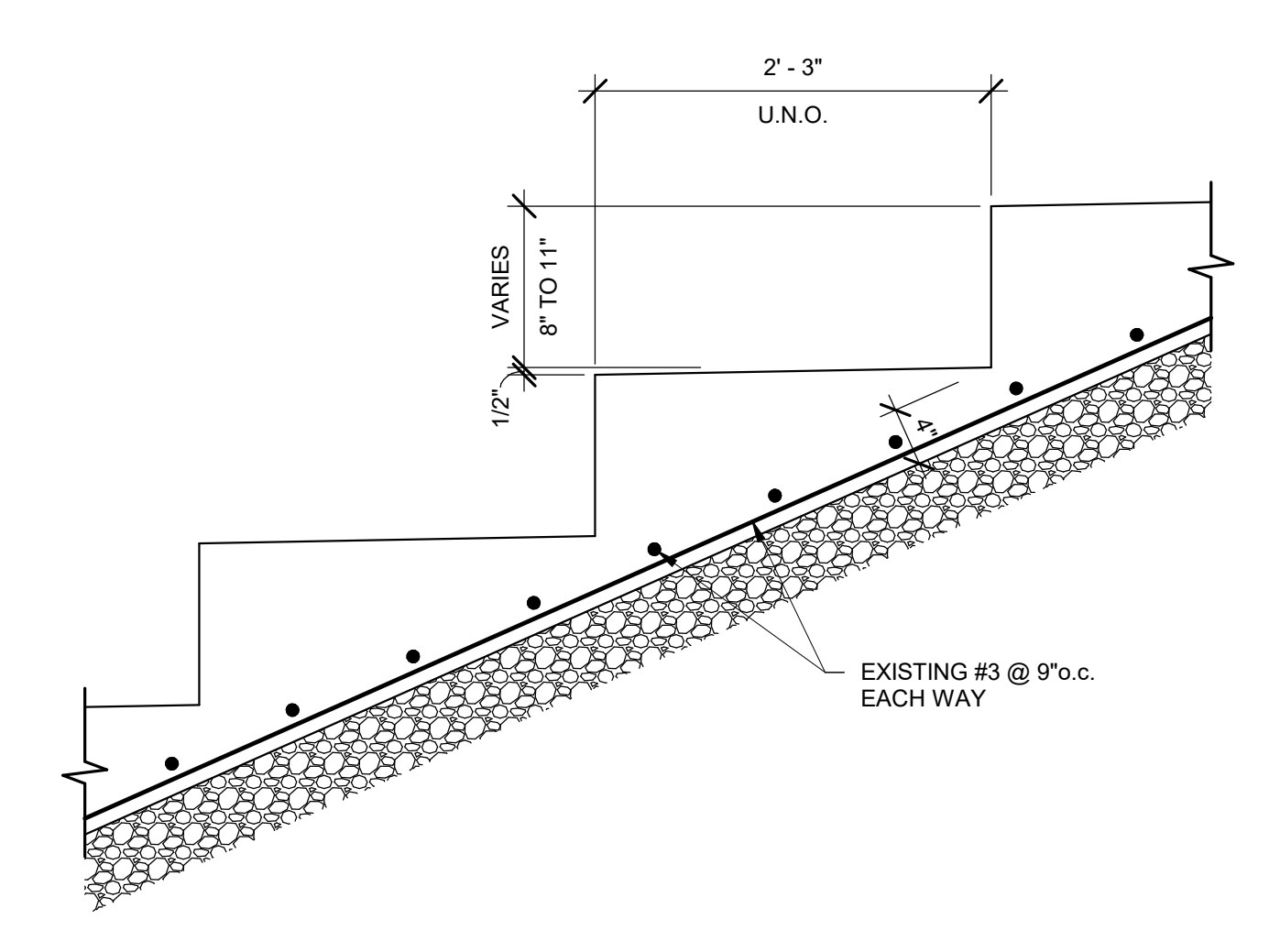
**4 TYPICAL STONE ANCHOR INSTALLATION**  
N.T.S.



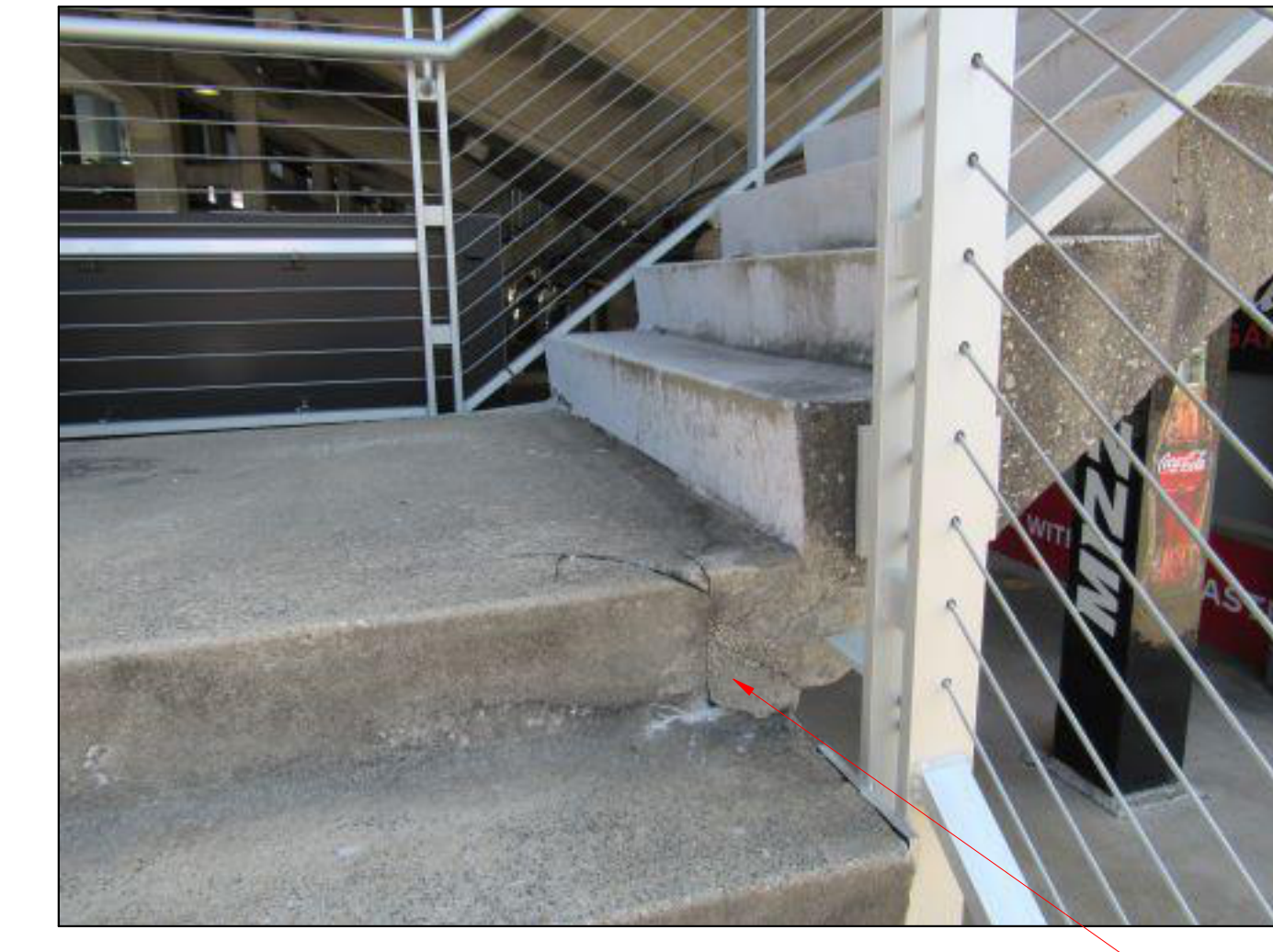
**3 TYPICAL PAN JOIST STRUCTURAL FRAMING**  
N.T.S.



**2 TYPICAL BLEACHER @ FRAMED SLAB**  
N.T.S.

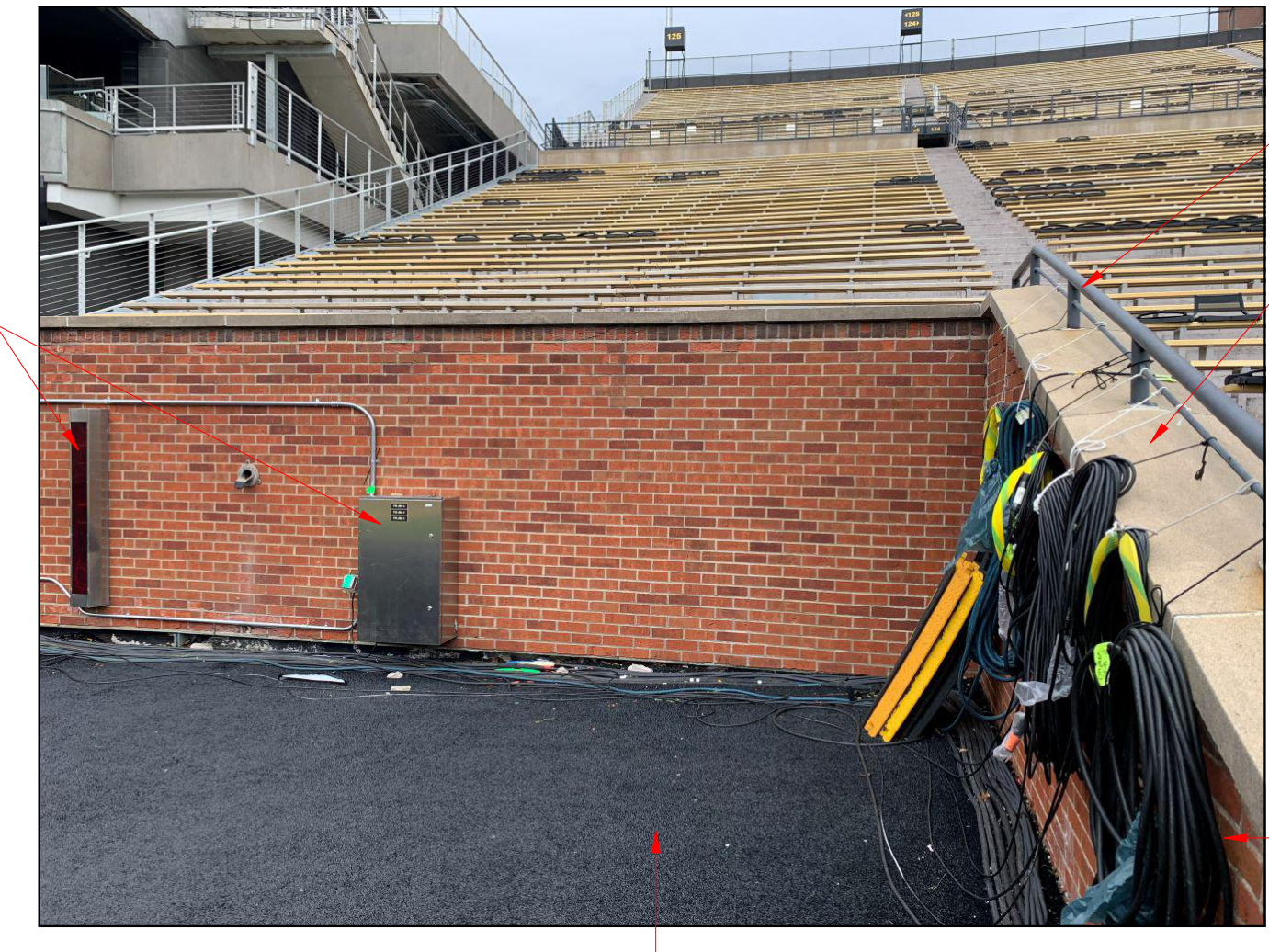


**1 TYPICAL BLEACHER @ SLAB ON GRADE**  
N.T.S.



R-5 REPAIR

20 EXISTING CONDITION PHOTO  
N.T.S.



OWNER TO REMOVE AND REPLACE

REMOVE AND RE-INSTALL RAILING (RE: 14S-001)

REMOVE AND RE-INSTALL CAP STONES (RE: 4IS-200)

REMOVE AND RE-INSTALL BRICK (RE: 4IS-200)

OWNER TO REMOVE AND REPLACE

24 EXISTING CONDITION PHOTO  
12" = 1'-0"



R-5 REPAIR

19 EXISTING CONDITION PHOTO  
N.T.S.



R-2 REPAIR

R-7 REPAIR

23 EXISTING CONDITION PHOTO  
N.T.S.



R-8 REPAIR

18 EXISTING CONDITION PHOTO  
N.T.S.



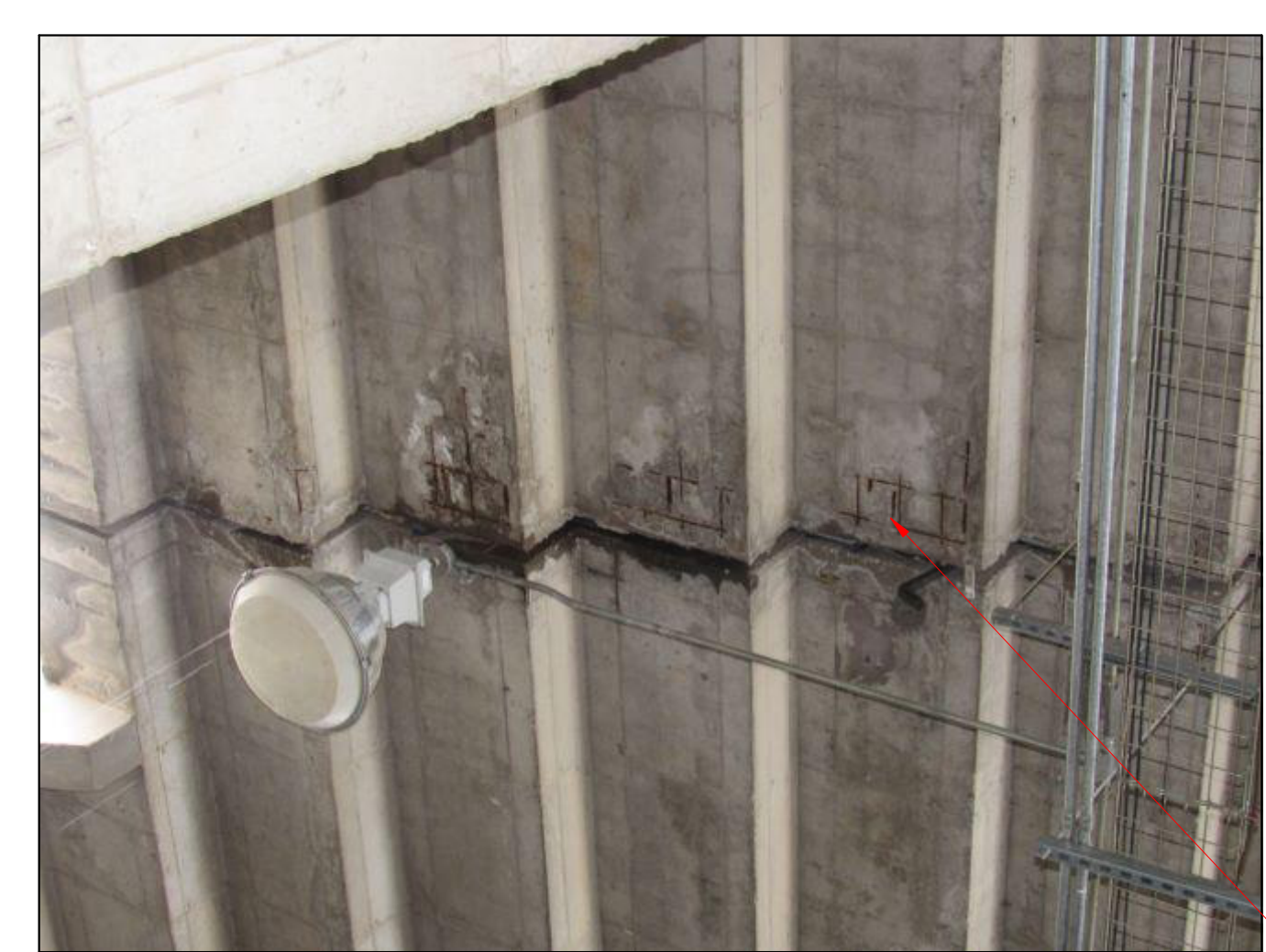
R-2 R-4 REPAIR

22 EXISTING CONDITION PHOTO  
N.T.S.



R-8 REPAIR

17 EXISTING CONDITION PHOTO  
N.T.S.



R-2 R-7 REPAIR

21 EXISTING CONDITION PHOTO  
N.T.S.



REMOVE AND RE-INSTALL RAILING (RE: 14S-001)

REMOVE AND RE-INSTALL CAP STONES (RE: 4IS-200)

REMOVE AND RE-INSTALL BRICK (RE: 4IS-200)

OWNER TO REMOVE AND REPLACE

25 EXISTING CONDITION PHOTO  
12" = 1'-0"