

May 4, 2020

STATE OF RHODE ISLAND AND PROVIDENCE PLANTATION
DEPARTMENT OF ADMINISTRATION

DIVISION OF PURCHASES BID NO. 7602830

RHODE ISLAND DEPARTMENT OF TRANSPORTATION

RHODE ISLAND CONTRACT NO.2019-CB-094

FEDERAL-AID PROJECT NO. FAP Nos: BRO-0600(005), STPG-0600(006)

Bridge Group 49 - Henderson

South Angell Street (Providence) to Massasoit Avenue (East Providence)

CITY/TOWN OF East Providence, Providence

COUNTY OF PROVIDENCE

NOTICE TO PROSPECTIVE BIDDERS

ADDENDUM NO. 4 Prospective bidders and all concerned are hereby notified of the following changes in the Plans, Specifications, Proposal and Distribution of Quantities for this contract. These changes shall be incorporated in the Plans, Specifications, Proposal and Distribution of Quantities, and shall become an integral part of the Contract Documents.

A. General Provisions - Contract Specific

1. Railroad Entry Permit

Delete Page CS-9 (R-1) in its entirety and replace it with Page CS-9 (R-2) attached to this Addendum No. 4. Section 6 Subsection L – Railroad Entry Permit has been deleted.

B. Specification Change/Addition

1. Special Provision Index

Delete Pages JS-iii through JS-iv in their entirety and replace them with Pages JS-iii (R-1) through JS-iv (R-1) attached to this Addendum No. 4. Item Code 902.9901 has been renamed. Item Code T01.9908 has been deleted. Item Codes 929 and 929.1000 have been added to the Index.

2. Item 803.9911-803.9918

Delete Page JS-71 in its entirety and replace it with Page JS-71 (R-1) attached to this Addendum No. 4. Specification for Items 803.9911 through 803.9918 has been revised.

3. Section 804.99

Delete Page JS-74 in its entirety and replace it with Pages JS-74 (R-1) and JS-74a attached to this Addendum No. 4. Specification for Section 804.99 has been revised.

4. Item 902.9901

Delete Page JS-157 in its entirety and replace it with Page JS-157 (R-1) attached to this Addendum No. 4. Specification for Item 902.9901 has been revised.

5. Item T01.9908
Delete Page JS-205 in its entirety and replace it with Page JS-205 (R-1) attached to this Addendum No. 4. Specification for Item T01.9908 has been deleted.
6. Section 929
Insert Pages JS-233 through JS-234 attached to this Addendum No. 4. Specification for Section 929 has been added.
7. Item 929.1000
Insert Page JS-235 attached to this Addendum No. 4. Specification for Item 929.1000 has been added.

C. Distribution of Quantities

1. Table of Contents – Distribution of Quantities
Delete Pages Index 1 (R-2) through Index 9 (R-2) in their entirety and replace them with revised Pages Index 1 (R-3) through Index 9 (R-3) attached to this Addendum No. 4.
2. Item Code 201.0610
Delete Pages 18 and 20 in their entirety and replace them with Pages 18 (R-1) and 20 (R-1) attached to this Addendum No. 4. Quantity has been revised.
3. Item Code 902.9901
Delete Page 96 in its entirety and replace it with Pages 96 (R-1) and 96a attached to this Addendum No. 4. Item description has been updated and quantity has been revised.
4. Item Code T01.9908
Delete Page 129 (R-1) in its entirety and replace it with Page 129 (R-2) attached to this Addendum No. 4. Item has been deleted.
5. Item Code T06.1020
Delete Page 135 in its entirety and replace it with Page 135 (R-1) attached to this Addendum No. 4. Quantity has been revised.
6. Item Code T06.7034
Delete Page 137 in its entirety and replace it with Page 137 (R-1) attached to this Addendum No. 4. Item has been deleted.
7. Item Code T15.0100
Delete Pages 140 (R-1), 140a, 141 (R-1), 141a, 142 (R-1), 142a and 146 (R-1) in their entirety and replace them with Pages 140 (R-2), 140a (R-1), 141 (R-2), 141a (R-1), 142 (R-2), 142a (R-1) and 146 (R-2) attached to this Addendum No. 4. Quantity has been revised.
8. Item Codes T20.0706, T20.0904, and T20.0912
Delete Page 149 (R-1) in its entirety and replace it with Page 149 (R-2) attached to this Addendum No. 4. Quantities have been revised.

9. Item Code T20.2406
Delete Pages 152 (R-1) through 153 (R-1) in their entirety and replace them with Pages 152 (R-2) through 153 (R-2) attached to this Addendum No. 4. Quantity has been revised.
10. Item Codes T20.2804 and T20.2812
Delete Pages 156 (R-1) and 158 (R-2) in their entirety and replace them with Pages 156 (R-2), 156a, and 158 (R-3) attached to this Addendum No. 4. Quantities have been revised.
11. Item Code T20.4506
Delete Page 162 in its entirety and replace it with Pages 162 (R-1) and 162a attached to this Addendum No. 4. Quantity has been revised.

D. Drawings/Plans - Change/Addition

1. Volume 1 – Job Specific Plan Symbols, Legend & Notes
Delete Sheet 5 (R-1) in its entirety and replace it with Sheet 5 (R-2) attached to this Addendum No. 4. The sheet has been revised.
2. Volume 1 – General Plan No. 5-6
Delete Sheets 37 through 38 in their entirety and replace them with Sheets 37 (R-1) through 38 (R-1) attached to this Addendum No. 4. The sheets have been revised.
3. Volume 1 – Miscellaneous Details No. 6
Delete Sheet 59 in its entirety and replace it with Sheet 59 (R-1) attached to this Addendum No. 4. The sheet has been revised.
4. Volume 1 – Signing & Striping Plan No. 5-6
Delete Sheets 153 (R-1) through 154 (R-1) in their entirety and replace them with Sheets 153 (R-2) through 154 (R-2) attached to this Addendum No. 4. The sheets have been revised.
5. Volume 1 – Signing & Striping Plan No. 8
Delete Sheet 156 in its entirety and replace it with Sheet 156 (R-1) attached to this Addendum No. 4. The sheet has been revised.
6. Volume 1 – Signing & Striping Plan No. 19-20
Delete Sheets 167 through 168 in their entirety and replace them with Sheets 167 (R-1) through 168 (R-1) attached to this Addendum No. 4. The sheets have been revised.
7. Volume 1 – Lighting Plan No. 2-6
Delete Sheets 176 through 180 in their entirety and replace them with Sheets 176 (R-1) through 180 (R-1) attached to this Addendum No. 4. The sheets have been revised.
8. Volume 1 – Lighting Details Sheet No. 1
Delete Sheet 196 in its entirety and replace it with Sheet 196 (R-1) attached to this Addendum No. 4. The sheet has been revised.
9. Volume 2 – Typical Sections
Delete Sheet 10 in its entirety and replace it with Sheet 10 (R-1) attached to this Addendum No. 4. The sheet has been revised.

10. Volume 2 – Demolition Plan 1-3
Delete Sheets 20 (R-1) through 22 (R-1) in their entirety and replace them with Sheets 20 (R-2) through 22 (R-2) attached to this Addendum No. 4. The sheets have been revised.
11. Volume 2 – Demolition Sections 1-2
Delete Sheets 24 (R-1) through 25 in their entirety and replace them with Sheets 24 (R-2) through 25 (R-1) attached to this Addendum No. 4. The sheets have been revised.
12. Volume 2 – Substructure Demolition 1-4
Delete Sheets 26 (R-1) through 29 (R-1) in their entirety and replace them with Sheets 26 (R-2) through 29 (R-2) attached to this Addendum No. 4. The sheets have been revised.
13. Volume 2 – Substructure Demolition 5
Delete Sheet 30 (R-2) in its entirety and replace it with Sheet 30 (R-3) attached to this Addendum No. 4. The sheet has been revised.
14. Volume 2 – Substructure Demolition 14
Delete Sheet 39 in its entirety and replace it with Sheet 39 (R-1) attached to this Addendum No. 4. The sheet has been revised.
15. Volume 2 – West Abutment Plan and Elevation
Delete Sheet 42 in its entirety and replace it with Sheet 42 (R-1) attached to this Addendum No. 4. The sheet has been revised.
16. Volume 2 – East Abutment Plan and Elevation
Delete Sheet 44 in its entirety and replace it with Sheet 44 (R-1) attached to this Addendum No. 4. The sheet has been revised.
17. Volume 2 – Abutment Details 2-3
Delete Sheets 46 through 47 in their entirety and replace them with Sheets 46 (R-1) through 47 (R-1) attached to this Addendum No. 4. The sheets have been revised.
18. Volume 2 – Steel Detail 1-2
Delete Sheets 89 (R-1) through 90 in their entirety and replace them with Sheets 89 (R-2) through 90 (R-1) attached to this Addendum No. 4. The sheets have been revised.
19. Volume 2 – Deck Details 4
Delete Sheet 108 in its entirety and replace it with Sheet 108 (R-1) attached to this Addendum No. 4. The sheet has been revised.
20. Volume 2 – Retaining Wall No. 2 Plan and Elevation 1-2
Delete Sheets 128 through 129 in their entirety and replace them with Sheets 128 (R-1) through 129 (R-1) attached to this Addendum No. 4. The sheets have been revised.
21. Volume 2 – Retaining Wall Details 1
Delete Sheet 131 in its entirety and replace it with Sheet 131 (R-1) attached to this Addendum No. 4. The sheet has been revised.

22. Volume 2 – Bridge No. 059501 Demolition Plan 3

Delete Sheet 144 in its entirety and replace it with Sheet 144 (R-1) attached to this Addendum No. 4.
The sheet has been revised.

Karen Doyle 5/4/2020
RI Department of Transportation
for: Manager, Division of Project Management

L. Deleted

M. Navigation Channel

The Contractor shall maintain the navigational channel as directed in the United State Coast Guard permit.

The Contractor shall maintain the navigational lights at all times.

N. In-Water Work

The Contractor shall note RIDOT committed to the following construction methods:

- Use of wire-saws to remove piers columns underwater (instead of hoe-rams)
- The use of clamshell buckets for the sediment removal (anticipated to be less than 100 cy) to minimize turbidity compared to other technologies such as hydraulic dredging.

O. East River Street

The Contractor shall protect the surfaces East River Street during demolition and construction. Any damage to roadway, curbs and sidewalk shall be restored to the satisfaction of the Engineer at no additional cost of the State.

P. Project Quality Control Plan

In addition to the Contractor's Quality/Process Control requirements included in Sections 202, 300, 401, and 601 of the RI Standard Specifications, the Contractor shall submit for review and approval a comprehensive Quality Control Plan to address each item within the areas of work within the Project. The Contractor shall refer to the RI Standard Specifications including the Master Schedule for the Preparation of a Project Schedule for Sampling, Testing and Certification of Materials to identify the project specific requirements for hot mix asphalt, concrete, and soils.

7. SEQUENCE OF CONSTRUCTION AND SCHEDULE

General Stipulations: The Contractor shall adhere to the following requirements:

Item	SPECIAL PROVISION INDEX Description	Page
901.9906	Steel Beam Guardrail Double Face (MASH TL-3)	
901.9903	Guardrail End Treatment Platform	JS-154
901.9904	Crash Cushion Energy Absorbing Terminal – 24 Inches (MASH TL-3)	JS-155
901.9907	Transition to Rigid Barrier (Single Faced)	JS-156
902.9901	Steel Bollard – Removable	JS-157
905.1000	Sidewalks	JS-158
909.9901	Precast F Shape Concrete Barrier Double Faced – Modified	JS-159
909.9902	Precast F Shape Concrete Barrier Single Faced – Modified	
909.9903	Precast Median Barrier for Light Standard – Modified	
916.9901	Narrow Impact Attenuator for Temporary Traffic Control	JS-160
916.9902	Shock Absorbing Barrier Modules (MASH TL-3)	JS-161
920.9901	Geotextile Marine Scour Mattress System	JS-162
920.9902	Temporary Riprap Access to Pier 7	JS-169
920.9903	Remove, Stockpile and Reinstall Riprap	JS-171
920.9904	Furnish and Install Supplemental Riprap	
923.9901	Longitudinal Pedestrian Channelizing Device	JS-173
926.9901	Unanchored Barrier for Temporary Traffic Control (MASH TL-3)	JS-174
926.9902	Anchored Barrier for Temporary Traffic Control (MASH TL-3)	
926.9903	Anchored Barrier with Fencing for Temporary Traffic Control (MASH TL-3)	
937.1000	Maintenance and Movement of Traffic Protective Devices	JS-176
938.1000	Price Adjustments	JS-177
943.0200	Trainee Man-hours	JS-178
999.9901	Installation of Traffic Signal System No. 1	JS-181
999.9902	Installation of Temporary Traffic Signal System No. 1	JS-182
999.9903	Installation of Temporary Traffic Signal System No. 2	
999.9904	Installation of Temporary Traffic Signal System No. 3	
999.9905	Installation of Temporary Traffic Signal System No. 4	
L01.0102	Loam Borrow 4 Inches Deep	JS-183
L01.9901	Wetland Mitigation	JS-184
L02.1000	Seeding	JS-185
T01.9901	Decorative Lighting Standard Type “A2”	JS-187
T01.9902	Decorative Lighting Standard Type “B3”	JS-190
T01.9903	Decorative Lighting Standard Type “B4”	JS-193
T01.9904	Decorative Lighting Standard Type “B2”	JS-196
T01.9905	Center Channel Marker Lighting Type "CCM"	JS-199
T01.9906	Underpass Lighting Luminaire Type "C1"	JS-201
T01.9907	Temporary Center Channel Marker Light Type "TCCM"	JS-203
	DELETED	JS-205
T01.9909	Decorative Lighting Standard Type "B21"	JS-206
T04.9901	Advanced Video Detection System Cable	JS-209
T12.9904	Video Detection System Hardware for Span Mounted Video Detection System Camera	
T13.9901	Span Mounted Video Detection System Camera	
T04.9902	Category 6 Ethernet Cable	JS-212
T07.9903	Wireless Lighting Controller With Dimming Capabilities (Tilt Sensor)	JS-213
T11.9901	50 Foot Galvanized Steel Mast Arm Traffic Signal Post and Foundation Std. 19.2.0	JS-215
T11.9902	Traffic Signal Wood Span Pole, 40 foot, Class I	JS-216

Item**SPECIAL PROVISION INDEX
Description****Page**

T12.9901	Actuated Controller TS-2, Type 1 w/8 Phase Assembly Pole Mounted Including Cabinet Std. 19.1.1	JS-218
T12.9902	GPS Time Synchronization Unit	JS-219
T12.9903	Intersection Wide 360 Degree Video Detection System	JS-220
T12.9905	Modify Existing Traffic Signal Controller	JS-225
T12.9906	Maintenance of Temporary Traffic Signal Systems	JS-226
T13.1000	Traffic Detectors and Relays	JS-228
T14.9901	1 Way Pedestal Mounted LED Pedestrian Signal Head with Countdown Timer 12 Inch	JS-229
T14.9902	1 Way Bracket Mounted LED Pedestrian Signal Head with Countdown Timer 12 Inch	
T15.9901	Dynamic Speed Feedback Sign Assembly	JS-231
T18.9901	Guardrail End Delineator – Red	JS-232
T18.9902	Guardrail End Delineator – Green	
929	Field Offices and Materials Laboratory	JS-233
929.1000	Field Office Requirements	JS-235

**CODE 803.9911
REMOVE AND DISPOSE EXISTING SUBSTRUCTURE-
BRIDGE NO. 600 EXISTING WEST PIER**

**CODE 803.9912
REMOVE AND DISPOSE EXISTING SUBSTRUCTURE-
BRIDGE NO. 600 EXISTING PIERS 1-5**

**CODE 803.9913
REMOVE AND DISPOSE EXISTING SUBSTRUCTURE-
BRIDGE NO. 600 EXISTING PIER 6**

**CODE 803.9914
REMOVE AND DISPOSE EXISTING SUBSTRUCTURE-
BRIDGE NO. 600 EXISTING PIER 7**

**CODE 803.9915
REMOVE AND DISPOSE EXISTING SUBSTRUCTURE-
BRIDGE NO. 600 EXISTING PIER 8**

**CODE 803.9916
REMOVE AND DISPOSE EXISTING SUBSTRUCTURE-
BRIDGE NO. 600 EXISTING PIERS 9-14**

**CODE 803.9917
REMOVE AND DISPOSE EXISTING SUBSTRUCTURE-
BRIDGE NO. 600 EXISTING PIERS 15 AND 16**

**CODE 803.9918
REMOVE AND DISPOSE EXISTING SUBSTRUCTURE-
BRIDGE NO. 600 EXISTING PIER A AND EXISTING PIERS 17-20**

DESCRIPTION. These items shall consist of the removal and disposal (including saw cuts) in phases of the existing concrete pier caps, stems and columns, column plinths (where indicated), foundations (where indicated), conduits and drains, as shown on plans and described in this Special Provision. All work shall be performed in accordance with applicable provisions of the Standard Specifications, except as modified herein and as required by the Engineer.

Remove and dispose existing West Pier, existing Piers 1 through 5, existing Pier 6 and existing Pier 7 shall include underwater wire saw cutting and segmental removal of pier column plinths (minimum limits from 1-foot above mean high water to the bottom limits indicated on the plans) and all labor, tools and equipment to perform the work.

Remove and dispose existing Pier 1 through Pier 5 shall include the final removal and disposal of the concrete filled prefabricated steel shell boxes of the temporary pier supports shown on the plans. The work includes all labor materials and equipment including underwater wire saw cutting and segmental removal of concrete filled prefabricated steel boxes (minimum removal limits from 1-foot above mean high water to the top of the structural base).

Remove and dispose existing Pier 6 shall include cut-off demolition of existing steel sheet piles that extends above existing tremie concrete and preparation of the existing tremie concrete surfaces for construction of a new Pier 7 concrete structural base foundation.

Remove and dispose existing Pier 8 shall include cut-off demolition of existing piles in conflict with the alignment of proposed piles.

**SECTION 804.99
DRIVEN PILES**

GENERAL

- A. The following pile specifications shall supplement the "Rhode Island Department of Transportation Standard Specifications for Road and Bridge Construction" Section 804, Driven Piles, for this project.
- B. This specification applies to driven steel H-Piles and pipe piles to be used for foundation support for the Henderson Bridge No. 600 Abutments and Piers.
- C. Drive shoes for steel H-Piles as shown on the drawings shall be provided for all H-Piles Furnished and Driven for this project.
- D. Steel closure plates for pipe piles as shown on the drawings shall be provided for all pipe piles Furnished and Driven for this project.
- E. Piles are to be driven to the nominal (ultimate) capacity indicated on the plans. The ultimate capacity is to be confirmed by static load testing for each pile type and capacity.
- F. The Contractor shall perform a Wave Equation Analysis (WEAP) and complete the "Pile and Driving Equipment Data Form" for each pile type and capacity, for submission to the engineer in accordance with the attached specifications.
- G. The contractor shall perform a static load test on one test pile for each pile type, capacity, and site condition at the Henderson Bridge. One static load test shall be performed on an HP14x89 at the East Abutment, and one static load test shall be performed on a pp12x0.375 at the West Abutment. Dynamic Pile Driving analyses (PDA) shall be performed on the test piles to confirm that the pile-hammer system is consistent with the assumptions in the WEAP analysis. This PDA testing shall be considered incidental to the Static Load Test.
- H. Dynamic Pile Driving analyses (PDA) will be performed on the first new pile driven at each of the remaining substructures and a minimum of 2% of production piles to verify the pile-hammer system is consistent with the assumptions in the WEAP analysis and the approved static load test pile. Therefore, a PDA test shall be performed on four piles, to include the first pile driven at the East Abutment, Pier 7, and the West Abutment, as well as one additional pile at the West Abutment.

DESCRIPTION

- A. This item shall consist of furnishing and installing foundation piles of the type and dimensions designated, including cutting off or building up foundation piles when required. Piling shall conform to and be installed in accordance with these specifications, and at the location, and to the elevation, penetration and/or capacity shown on the plans, or as directed by the Engineer. This work shall also conform to the applicable requirements of SECTION 4; DRIVEN FOUNDATION PILES, DIVISION II, of the AASHTO Standard Specifications for Highway Bridges. This work shall also include wave equation analysis, static pile load and dynamic pile testing, preconstruction structure surveys, and vibration monitoring as may be required in the Contract.
- B. Production piles shall be furnished in sufficient lengths to be driven to the required minimum tip elevations and meet the required driving criteria established by the wave equation analysis, and to the

- C. design cut-off elevation. Production pile lengths shown on the Contractor's order list shall generally include only those lengths anticipated for use in the final structure. The Contractor shall furnish, without added compensation, in addition to pile lengths shown or ordered, increased lengths of production or preliminary test piles to provide for fresh heading and such additional pile lengths as may be needed to suit his method of operation.

CODE 902.9901
STEEL BOLLARD - REMOVABLE

DESCRIPTION: The work consists of the furnishing and installing a steel removable bollard as indicated on the Plans or as directed by the Engineer, all in accordance with these Specifications.

MATERIALS:

Bollards - All pipe shall be 6" wide schedule 40 steel pipe.

Paint/Color - Steel bollards shall be powder coated in accordance with the Manufacturer's recommendation. The Contractor shall provide the Engineer with color options. The Engineer will decide which color the bollard shall be.

Concrete - Concrete shall be in conformance with section 600 of the Standard Specifications.

Reinforcement- Reinforcement shall be in conformance with section M.05.01 and galvanized in accordance with M.05.05 of the Standard Specifications.

Pad Lock - The padlock, with two keys, shall be Corrosion resistant brass body that stands up to the elements for ideal outdoor use, American Lock, Product Series 20 or approved equal.

CONSTRUCTION METHODS: Installing Posts. Posts shall be set in Class A(AE) concrete, unless otherwise specified on the Plans. When the Plans require that posts, braces or anchors be imbedded in concrete, the Contractor shall install temporary guys, or braces, as may be required to support the posts in proper position until such time as the concrete has set sufficiently to anchor said posts. No materials shall be installed on posts or strain placed on guys and bracing that are set in concrete until directed by the Engineer. Concrete footings shall be carried to the depth and dimensions shown on the Plans.

Steel Bollard installation shall be in accordance with manufacture's specifications.

Padlock Keys: The Contractor shall provide the Engineer with the original key and one copy upon acceptance of each steel bollard. A padlock is required at each steel bollard. The padlocks shall be keyed alike. The Contractor shall provide four keys in total.

METHOD OF MEASUREMENT: "Steel Bollard - Removable" will be measured at the contract unit price per "Each," complete in place and accepted, in accordance with the Rhode Island Standard Specifications and these Special Provisions.

BASIS OF PAYMENT: "Steel Bollard - Removable" will be paid for at the contract unit price per "Each" as listed in the Proposal. The price so-stated constitutes full and complete compensation for all labor, tools, materials including bollard, padlock, keys, concrete foundation, reinforcement, anchorages, equipment, excavation, backfill, paint, and other incidentals necessary to properly complete the work in accordance with the plans and accepted by the Engineer.

SPECIFICATION DELETED

SECTION 929
FIELD OFFICES AND MATERIALS LABORATORY

Unless otherwise modified elsewhere in the Contract Documents, **Section 929** of the Rhode Island Standard Specifications for Road and Bridge Construction and all revisions and Compilation of Approved Specifications, is revised as follows:

1. Replace **Section 929.01 DESCRIPTION** with the following:

929.01 DESCRIPTION: This work consists of providing and maintaining an adequate, weatherproof and ADA compliant field office for the exclusive use of the Engineer and his/her staff during both the construction period and approximately 270 days thereafter, all in accordance with these specifications.

2. Replace **Section 929.02.2 Minimum Spatial Requirements** with the following:

929.02.2 Minimum Spatial Requirements. The Engineer's field office shall contain a minimum of 1,500 square feet of floor area, at least 3 rooms (not including restrooms), and a minimum of 7 feet of headroom, or as approved by the Engineer. It shall contain a sufficient number of windows to provide at least 27 square feet natural light for each room. The field office must have at least two restrooms with adequate facilities, hot and cold water, etc. The field office shall be located on a site that is both satisfactory to the Engineer and convenient to the project site with dedicated parking facilities capable of handling at least 10 vehicles.

Existing building structures meeting the above minimum requirements are considered acceptable.

3. Replace **929.02.3 b. Other requirements** with the following:

- b. The Engineer's Field Office shall be fully equipped and operational and ready for occupancy at least two (2) weeks prior to the start of any construction activity or 90-days after notice to proceed, whichever comes first.

4. Replace **929.03.4 a. Furnishing** with the following:

a. Furnishings: The following furnishings shall be new or approved by the Engineer when received by the Rhode Island Department of Transportation:

1. Two (2) worktable, 30-inch-high with a minimum of 24 square feet of work area.
2. Two (2) drafting stools
3. Four (4) folding-type chairs with cushioned seating area.
4. Two (2) four-drawer legal size metal filing cabinet equipped with lock
5. Three (3) two-drawer (14 ½" x 16") metal filing cabinets
6. Four (4) round wastebaskets.
7. One (1) plan rack of an approved design to be equipped with 10 rods.

5. Replace **929.03.5 a. Furnishings** and **b. Equipment** with the following:

a. Furnishings: The following furnishings shall be new or approved by the Engineer when received by the Rhode Island Department of Transportation:

1. Five (5) office type desks, minimum top dimensions 32" x 60" with two or more drawers on each side.
2. Five (5) acceptable by the Engineer swivel desk chairs.

3. One (1) conference/meeting table, minimum top dimensions 42" x 96" with seating for 12 people.
4. Twelve (12) chairs for conference table, acceptable by the Engineer.
5. Four (4) 6-foot folding tables
6. Four (4) bookcases (4 shelf)

b. Equipment: The following equipment shall be new when received by the Rhode Island Department of Transportation:

1. Two (2) fully automatic electronic calculators with tape
2. Four (4) pencil sharpener
3. Two (2) 300 ft. tape measure
4. Two (2) measuring wheels
5. Two (2) 6' carpenter collapsible rulers
6. One case of white spray paint
7. 4 (4) 25' measuring tape
8. Two (2) 6' levels

6. Delete **Section 929.03.6 Special Requirements for Material Laboratory**

There will be no materials laboratory required for this project.

929.1000
FIELD OFFICE REQUIREMENTS

Unless otherwise modified elsewhere in the Contract Documents, **Section 929.1000** of the Rhode Island Standard Specifications for Road and Bridge Construction and all revisions and Compilation of Approved Specifications, Replace Tier I-III with the following list of computer and equipment requirements:

1. One (1) multifunction all-in-one (printer/copier/scanning/fax) network color laser printer with wireless capacity, up to 1200x1200 dpi, tray capacity of 250 and accommodates print sizes 3" x 5" to 11"x 17".
2. Four (4) new Microsoft Surface Pro 7 or the most recent model tablet computers with an i7 processor (minimum); 1TB Solid State Drive (SSD) (minimum); 12.3" touch screen display 2736 x 1824 (267 PPI) (minimum); 16GB of RAM (minimum); Intel® Iris™ graphics; External USB DVD±RW/CD-RW Drive; IEEE 802.11a/b/g/n compatible; each with an AC/DC power adaptor and carrying bag (total of four for both). Installed software shall include the minimum of: Microsoft Windows 10 Pro with the latest service packs and security updates, Microsoft Office Professional (2019 version) with latest service packs, Adobe Acrobat Pro DC (or newer), Bluebeam Revu Extreme 2019 with maintenance for the duration of the contract, and Symantec Endpoint Protection 12.1.6 (or better) with subscription support for the life of the project. All software shall be purchased in the name of RIDOT, installation CDs, licenses, registration codes and user manuals/documentation shall be provided to the **Resident Engineer**.
3. Four (4) Microsoft Surface Pro Signature Type Cover, North American Layout (color to be determined by the Resident Engineer). Each tablet shall be equipped with a screen protector to resist scratches made of tempered glass that does not adversely affect touch sensitivity of the tablet. Each tablet shall also be equipped with a protective case that meets military drop-test standards (MIL STD810G 516.6) when used with Microsoft Type Cover keyboard, is Compatible with Microsoft Type Cover Keyboard, and has built in Surface Pen storage, and one (1) Surface Pen for each (total of 4) Color to be determined by the Resident Engineer.
4. Four (4) Microsoft Surface Docks for Surface Pro 5 or the most recent model with a minimum of the following: 1 Gigabit Ethernet port, 4 USB 3.0 ports, 2 Mini Display Ports, External power supply. In addition, one (1) wireless 101 key enhanced keyboard, one (1) wireless optical mouse with scroll wheel and two (2)-24" (minimum) wide screen flat panel LCD Monitor with 1920 x 1080 (minimum) resolution shall be supplied for each required Surface Dock.
5. All necessary power cords, internet cables, electrical wires and surge protectors shall be provided by the contractor at the direction of the Engineer.
6. The Contractor is responsible for proper maintenance of computers and all office equipment for the life of the project which includes but is not limited to network support, computer support and peripheral support. Supplies for the field office shall be provided by the contractor for both new and existing equipment which includes but is not limited to flash drives, toner, binders, folders, paper, dry erase board etc. All supplies shall be provided with the delivery and set-up of the office equipment and as required by the Engineer.
7. Four (4) 32.0 Gigabytes (minimum) flash drives
8. (2) Hotspots
9. HeadLight Construction Management Software and support <https://headlight.com/> Multi-Year Unlimited Plan (48 Months) includes Fieldbook, Academy, Reports and Gold Support.
10. One (1) Conference Phone
11. One (1) Smart-4K 65" (minimum) UHD TV with HDR and a camera for the use of video conferencing.

Table of Contents - Distribution of Quantities

Project Name - Bridge Group 49 - Henderson

Estimate Name - Addendum No. 4

R.I. Contract No. - 2019-CB-094

FAP Nos: BRO-0600(005), STPG-0600(006)

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Item No.	Item Code	Description	UM	Qty.	Pay Code	Seq. No.
023	201.0610 Cont.	STA. 99+20 RT		2.00	0011	01
		MASSASOIT AVENUE				
		STA. 501+10 LT		1.00	0011	01
		STA. 501+51 RT		1.00	0011	01
		STA. 501+97 RT		1.00	0011	01
		STA. 503+76 RT		2.00	0011	01
		STA. 504+37 RT		2.00	0011	01
		STA. 505+44 LT		1.00	0011	01
		STA. 505+44 RT		1.00	0011	01
		STA. 505+77 RT		1.00	0011	01
		STA. 505+88 LT		3.00	0011	01
		STA. 505+91 RT		3.00	0011	01
		STA. 505+92 RT		1.00	0011	01
		STA. 506+27 RT		1.00	0011	01
		STA. 506+28 RT		3.00	0011	01
		STA. 506+35 RT		2.00	0011	01
		STA. 506+40 LT		2.00	0011	01
		STA. 506+51 RT		2.00	0011	01
		STA. 506+78 LT		4.00	0011	01
		STA. 507+86 RT		1.00	0011	01
		STA. 508+44		1.00	0011	01
		STA. 508+84		1.00	0011	01
		STA. 509+75		1.00	0011	01
		PROJECT WIDE				
		AS NEEDED		13.00	0011	01
		RAMP ER-3 (EXISTING LOCATION)				
		AS SHOWN ON PLANS		4.00	0011	01
		RAMP ER-4 (EXISTING LOCATION)				
		AS SHOWN ON PLANS		20.00	0011	01
		RAMP ER-4A (EXISTING LOCATION)				
		AS SHOWN ON PLANS		4.00	0011	01
		RAMP WR-3 (EXISTING LOCATION)				
		AS SHOWN ON PLANS		2.00	0011	01

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Item No.	Item Code	Description	UM	Qty.	Pay Code	Seq. No.
023	201.0610	Cont.				
		STA. 309+61 RT		2.00	0011	01
		STA. 309+79 LT		1.00	0011	01
		STA. 309+88 LT		2.00	0011	01
		STA. 310+10 RT		4.00	0011	01
		STA. 310+24 RT		1.00	0011	01
		STA. 310+53 LT		2.00	0011	01
		STA. 310+83 LT		2.00	0011	01
		STA. 311+48 LT		2.00	0011	01
		STA. 311+52 LT		2.00	0011	01
		STA. 313+41 RT		2.00	0011	01
		STA. 313+55 LT		2.00	0011	01
		STA. 315+39 LT		1.00	0011	01
		STA. 316+54 RT		2.00	0011	01
		STA. 316+60 RT		2.00	0011	01
		STA. 317+03 RT		2.00	0011	01
		STA. 317+15 RT		1.00	0011	01
		STA. 317+53 LT		1.00	0011	01
		STA. 317+67 LT		1.00	0011	01
		WATERMAN AVENUE				
		STA. 804+69 RT		1.00	0011	01
		STA. 805+09 LT		1.00	0011	01
		WATERMAN STREET				
		STA. 701+21 RT		1.00	0011	01
		STA. 701+49 LT		1.00	0011	01
		STA. 702+57 LT		4.00	0011	01
		STA. 702+65 LT		2.00	0011	01
Item 201.0610 Total:				248.00		
024	201.0613	REMOVE AND STOCKPILE LIGHT STANDARDS	EACH			
		HENDERSON BRIDGE				
		LIGHTING PLAN NO. 10		1.00	0011	01
		LIGHTING PLAN NO. 11		2.00	0011	01

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Item No.	Item Code	Description	UM	Qty.	Pay Code	Seq. No.
S187	901.9905	Cont.				
		PHASE 1		100.00	0021	02
		PHASE 4		50.00	0021	02
		SUPPLEMENTAL		50.00	0021	02
		WATERFRONT DRIVE NORTH				
		STA. 402+42 LT TO STA. 403+00 LT		58.00	0021	02
		WATERFRONT DRIVE SOUTH				
		STA. 303+89 LT TO STA. 309+39 LT		550.00	0021	02
		STA. 310+15 LT TO STA. 311+67 LT		150.00	0021	02
		WATERMAN AVENUE				
		STA. 804+44 LT TO STA. 805+08 LT		47.00	0021	02
Item 901.9905 Total:				1,144.00		
S188	901.9906	STEEL BEAM GUARDRAIL DOUBLE FACE (MASH TL-3)	LF			
		HENDERSON PARKWAY				
		STA. 131+68 RT TO STA. 132+46 RT		78.00	0021	02
Item 901.9906 Total:				78.00		
S189	901.9907	TRANSITION TO RIGID BARRIER (SINGLE FACED)	EACH			
		WATERFRONT DRIVE NORTH				
		STA. 402+10 LT		1.00	0011	01
Item 901.9907 Total:				1.00		
190	902.9901	STEEL BOLLARD - REMOVABLE	EACH			
		HENDERSON PARKWAY				
		STA. 104+00 RT		1.00	0021	02
		STA. 118+00 RT			0021	02

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Item No.	Item Code	Description	UM	Qty.	Pay Code	Seq. No.
190	902.9901	Cont. STA. 121+00 RT		1.00	0021	02

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Item No.	Item Code	Description	UM	Qty.	Pay Code	Seq. No.
S263	T01.9904	Cont.		14.00		
Item T01.9904 Total:				14.00		
S264	T01.9905	CENTER CHANNEL MARKER LIGHT	EACH			
		LUMINAIRE TYPE "CCM"				
		HENDERSON BRIDGE				
		LIGHTING PLAN NO. 4		2.00	0011	01
Item T01.9905 Total:				2.00		
S265	T01.9906	UNDERPASS LIGHTING LUMINAIRE TYPE	EACH			
		"C1"				
		HENDERSON BRIDGE				
		LIGHTING PLAN NO. 3		4.00	0011	01
Item T01.9906 Total:				4.00		
S266	T01.9907	TEMPORARY CENTER CHANNEL MARKER	EACH			
		LIGHT TYPE "TCCM"				
		HENDERSON BRIDGE				
		LIGHTING PLAN NO. 2		2.00	0011	01
Item T01.9907 Total:				2.00		
S267	T01.9908	PULL BOX TYPE "W1"	EACH			
		HENDERSON BRIDGE				
		LIGHTING PLAN NO. 2			0011	01
		LIGHTING PLAN NO. 5			0011	01
Item T01.9908 Total:					**DELETED**	
S268	T01.9909	DECORATIVE LIGHTING STANDARD TYPE	EACH			
		"B21"				
		HENDERSON BRIDGE				
		LIGHTING PLAN NO. 3		3.00	0011	01
		LIGHTING PLAN NO. 4		3.00	0011	01
		LIGHTING PLAN NO. 5		3.00	0011	01
		LIGHTING PLAN NO. 6		1.00	0011	01

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FAP Nos: BRO-0600(005), STPG-0600(006)

Item No.	Item Code	Description	UM	Qty.	Pay Code	Seq. No.
S279	T05.0400	Cont.				
		HENDERSON BRIDGE				
		LIGHTING PLAN NO. 14		1.00	0011	01
		LIGHTING PLAN NO. 9		2.00	0011	01
Item T05.0400 Total:				3.00		
S280	T06.1020	2 IN. RIGID STEEL CONDUIT - UNDERGROUND	LF			
		PROJECT WIDE				
		LIGHTING PLAN NO. 1		5.00	0011	01
		LIGHTING PLAN NO. 11		15.00	0011	01
		LIGHTING PLAN NO. 14		5.00	0011	01
		LIGHTING PLAN NO. 15		15.00	0011	01
		LIGHTING PLAN NO. 16		15.00	0011	01
		LIGHTING PLAN NO. 17		20.00	0011	01
		LIGHTING PLAN NO. 18		20.00	0011	01
		LIGHTING PLAN NO. 19		15.00	0011	01
		LIGHTING PLAN NO. 2		20.00	0011	01
		LIGHTING PLAN NO. 3		1,135.00	0011	01
		LIGHTING PLAN NO. 4		1,215.00	0011	01
		LIGHTING PLAN NO. 5		905.00	0011	01
		LIGHTING PLAN NO. 6		28.00	0011	01
		LIGHTING PLAN NO. 7		56.00	0011	01
		LIGHTING PLAN NO. 8		25.00	0011	01
Item T06.1020 Total:				3,494.00		
S281	T06.1040	4 IN. RIGID STEEL CONDUIT-UNDERGROUND	LF			
		HENDERSON BRIDGE				
		LIGHTING PLAN NO. 3		1,102.00	0011	01
		LIGHTING PLAN NO. 4		1,000.00	0011	01
		LIGHTING PLAN NO. 5		518.00	0011	01
Item T06.1040 Total:				2,620.00		

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Item No.	Item Code	Description	UM	Qty.	Pay Code	Seq. No.
S285	T06.5140	Cont. UNDERGROUND				
		CONTRACT WIDE				
		CONTRACT WIDE		144.00	0011	01
				Item T06.5140 Total:		144.00
S286	T06.5430	3 INCH SCHEDULE 80 POLYVINYL CHLORIDE PLASTIC CONDUIT - UNDER EXISTING PAVEMENT	LF			
		HENDERSON BRIDGE				
		LIGHTING PLAN NO. 15		100.00	0011	01
		LIGHTING PLAN NO. 16		240.00	0011	01
		LIGHTING PLAN NO. 2		180.00	0011	01
		LIGHTING PLAN NO. 6		80.00	0011	01
		LIGHTING PLAN NO. 7		1,300.00	0011	01
				Item T06.5430 Total:		1,900.00
S287	T06.7002	EXPANSION COUPLING WITH TRANSVERSE MOTION 2'' STEEL	EACH			
		HENDERSON BRIDGE				
		LIGHTING PLAN NO. 3		8.00	0011	01
		LIGHTING PLAN NO. 4		6.00	0011	01
		LIGHTING PLAN NO. 5		4.00	0011	01
				Item T06.7002 Total:		18.00
S288	T06.7034	EXPANSION COUPLING WITH TRANSVERSE MOTION 4" FIBERGLASS	EACH			
		HENDERSON BRIDGE				
		LIGHTING PLAN NO. 3			0011	01
		LIGHTING PLAN NO. 4			0011	01
		LIGHTING PLAN NO. 5			0011	01
				Item T06.7034 Total:		**DELETED**
S289	T07.9903	WIRELESS LIGHTING CONTROLLER WITH	EACH			

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Item No.	Item Code	Description	UM	Qty.	Pay Code	Seq. No.
S293	T15.0100	Cont.				
		STA. 102+04 RT W11-15L (30"x30")		6.25	0021	02
		STA. 102+04 RT W16-7PL (24"x12")		2.00	0021	02
		STA. 102+92 LT R4-7 (24"x30")		5.00	0021	02
		STA. 121+70 RT W13-1P (18"x18")		2.25	0021	02
		STA. 121+70 RT W2-6 (30"x30")		6.25	0021	02
		STA. 121+78 R4-7 (24"x30")		5.00	0021	02
		STA. 122+18 LT R2-1 (30"x36")		7.50	0021	02
		STA. 122+73 R6-1R (54"x18")		6.75	0021	02
		STA. 122+82 RT R3-8(MOD) (45"x30")		9.50	0021	02
		STA. 122+94 LT R1-1 (30"x30")		6.25	0021	02
		STA. 122+94 LT R3-2 (24"x24")		4.00	0021	02
		STA. 123+57 LT R4-7 (24"x30")		5.00	0021	02
		STA. 123+57 LT W12-1 (30"x30")		6.25	0021	02
		STA. 124+09 RT W12-1 (30"x30")		6.25	0021	02
		STA. 124+37 RT D1-1D(4) (78"x18")		9.75	0021	02
		STA. 124+37 RT M1-1 (30"x24")		5.00	0021	02
		STA. 124+37 RT M3-4 (24"x12")		2.00	0021	02
		STA. 124+37 RT M4-5 (24"x12")		2.00	0021	02
		STA. 124+37 RT M6-2R (21"x15")		2.25	0021	02
		STA. 125+17 R6-1R (54"x18")		6.75	0021	02
		STA. 125+36 LT R1-2 (36"x36"x36")		4.00	0021	02
		STA. 125+36 LT R3-2 (24"x24")		4.00	0021	02
		STA. 125+50 LT R1-2 (36"x36"x36")		4.00	0021	02

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Item No.	Item Code	Description	UM	Qty.	Pay Code	Seq. No.
S293	T15.0100	Cont.				
		STA. 125+54 RT R1-2 (48"x48"x48")		7.00	0021	02
		STA. 125+57 RT R1-2 (48"x48"x48")		7.00	0021	02
		STA. 125+62 LT D1-1D(3) (78"x18")		9.75	0021	02
		STA. 125+64 RT D11-1 (24"x18")		3.00	0021	02
		STA. 125+64 RT M6-3 (21"x15")		2.25	0021	02
		STA. 126+10 RT R6-4b		10.00	0021	02

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Item No.	Item Code	Description	UM	Qty.	Pay Code	Seq. No.
S293	T15.0100	Cont.	(60"x24")			
		STA. 126+16 RT R1-2		7.00	0021	02
		(48"x48"x48")				
		STA. 126+45 LT R6-4b		10.00	0021	02
		(60"x24")				
		STA. 126+80 LT R6-4b		10.00	0021	02
		(60"x24")				
		STA. 126+82 RT R6-4b		10.00	0021	02
		(60"x24")				
		STA. 127+05 RT R1-2		7.00	0021	02
		(48"x48"x48")				
		STA. 127+33 LT R1-2		7.00	0021	02
		(48"x48"x48")				
		STA. 127+37 LT R1-2		7.00	0021	02
		(48"x48"x48")				
		STA. 127+41 RT D1-1D(1)		11.25	0021	02
		(90"x18")				
		STA. 128+48 LT R3-8(MOD)		6.25	0021	02
		(30"x30")				
		STA. 130+08 RT R2-1 (30"X36")		7.50	0021	02
		STA. 130+91 LT D11-1		3.00	0021	02
		(24"x18")				
		STA. 130+91 LT M6-2L		2.25	0021	02
		(21"x15")				
		STA. 131+71 LT W13-1P		2.25	0021	02
		(18"x18")				
		STA. 131+71 LT W2-6 (30"x30")		6.25	0021	02
		STA. 134+69 RT W19-1(MOD)		9.00	0021	02
		(54"x24")				
		STA. 136+45 RT W4-2L		9.00	0021	02
		(36"x36")				
		STA. 138+19 RT W19-5		7.50	0021	02
		(45"x24")				

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Item No.	Item Code	Description	UM	Qty.	Pay Code	Seq. No.
S293	T15.0100	Cont.				
		STA. 139+00 LT R2-1 (24"x30")		5.00	0021	02
		STA. 42+04 RT R9-7(MOD)		1.50	0021	02
		(12"x18")				
		STA. 45+02 LT R9-7(MOD)		1.50	0021	02
		(12"x18")				
		STA. 45+66 RT R9-7(MOD)		1.50	0021	02
		(12"x18")				
		STA. 94+96 RT R5-6 (24"x24")		4.00	0021	02
		STA. 97+92 RT R1-1 (24"x24")		4.00	0021	02
		STA. 97+95 RT W11-15L		6.25	0021	02

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Item No.	Item Code	Description	UM	Qty.	Pay Code	Seq. No.
S293	T15.0100	Cont.	(30"x30")			
		STA. 97+95 RT W16-7PL		2.00	0021	02
		(24"x12")				
		STA. 97+99 RT R5-3 (24"x24")		4.00	0021	02
		STA. 98+20 RT W11-15L		6.25	0021	02
		(30"x30")				
		STA. 98+20 RT W16-7PL		2.00	0021	02
		(24"x12")				
		MASSASOIT AVENUE				
		STA. 500+85 LT R1-2		7.00	0021	02
		(48"x48"x48")				
		STA. 500+88 LT R1-2		7.00	0021	02
		(48"x48"x48")				
		STA. 500+95 RT D1-1D(2)		9.75	0021	02
		(78"x18")				
		STA. 501+92 LT D1-1D(3)		9.75	0021	02
		(78"x18")				
		STA. 501+98 LT W12-1		6.25	0021	02
		(30"x30")				
		STA. 502+54 LT R3-8(MOD)		6.25	0021	02
		(30"x30")				
		STA. 503+23 R4-7 (24"x30")		5.00	0021	02
		STA. 504+51 LT D11-1		3.00	0021	02
		(24"x18")				
		STA. 504+51 LT M6-2L		2.25	0021	02
		(21"x15")				
		STA. 505+49 LT W13-1P		2.25	0021	02
		(18"x18")				
		STA. 505+49 LT W2-6 (30"x30")		6.25	0021	02
		STA. 505+49 RT W4-2 (36"x36")		9.00	0021	02
		STA. 508+44 R4-7 (24"x30")			0021	02
		STA. 509+75 R4-7 (24"x30")			0021	02
		SOUTH ANGELL STREET				

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Item No.	Item Code	Description	UM	Qty.	Pay Code	Seq. No.
S293	T15.0100	Cont.				
		STA. 201+12 RT R5-1 (36"x36")		9.00	0021	02
		STA. 201+12 RT R6-1L (54"x18")		6.75	0021	02

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Item No.	Item Code	Description	UM	Qty.	Pay Code	Seq. No.
S293	T15.0100	Cont.				
				Item T15.0100 Total:	842.00	
294	T15.0200	REMOVE AND RELOCATE DIRECTIONAL REGULATORY AND WARNING SIGN	EACH			
MASSASOIT AVENUE						
STA. 501+97 TO STA. 501+96 RT				1.00	0021	02
WATERFRONT DRIVE - SOUTH						
STA. 309+79 TO STA. 309+76 LT				1.00	0021	02
				Item T15.0200 Total:	2.00	
S295	T15.1000	STREET SIGN ASSEMBLY STD.	24.6.1	EACH		
CURTIS STREET						
STA. 900+81 RT (48"x12")				1.00	0021	02
STA. 900+81 RT (66"x12")				1.00	0021	02
HENDERSON PARKWAY						
STA. 123+34 LT (66"x12")				1.00	0021	02
MASSASOIT AVENUE						
STA. 505+85 LT (48"x12")				1.00	0021	02
STA. 505+85 LT (66"x12")				1.00	0021	02
WATERFRONT DRIVE - SOUTH						
STA. 302+37 LT (66"x12")				2.00	0021	02
STA. 309+69 RT (54"x12")				1.00	0021	02
STA. 309+69 RT (66"x12")				1.00	0021	02
STA. 313+01 RT (66"x12")				2.00	0021	02
WATERMAN AVE						
STA. 804+94 RT (60"x12")				1.00	0021	02
STA. 804+94 RT (66"x12")				1.00	0021	02
WILMARTH AVENUE						
STA. 601+47 LT (66"x12")				1.00	0021	02
				Item T15.1000 Total:	14.00	
S296	T15.2000	PARKING SIGNS	SF			
MASSASOIT AVENUE						

Distribution of Quantities

Project Name - Bridge Group 49 - Henderson
 Estimate Name - Addendum No. 4
 R.I. Contract No. - 2019-CB-094
 FAP Nos: BRO-0600(005), STPG-0600(006)

Item No.	Item Code	Description	UM	Qty.	Pay Code	Seq. No.
303	T20.0706 Cont.	ON BASE COURSE OR MILLED SURFACES		19,130.00	0021	02
		ON FINAL PAVED SURFACES		19,130.00	0021	02
Item T20.0706 Total:				38,260.00		
304	T20.0712	12 INCH WHITE WATERBORNE PAINT PAVEMENT MARKINGS	LF			
		PROJECT WIDE				
		ON BASE COURSE OR MILLED SURFACES		1,770.00	0021	02
		ON FINAL PAVED SURFACES		1,770.00	0021	02
Item T20.0712 Total:				3,540.00		
305	T20.0904	4 INCH YELLOW WATERBORNE PAINT PAVEMENT MARKINGS	LF			
		PROJECT WIDE				
		ON BASE COURSE OR MILLED SURFACES		17,450.00	0021	02
		ON FINAL PAVED SURFACES		17,450.00	0021	02
Item T20.0904 Total:				34,900.00		
306	T20.0912	12 INCH YELLOW WATERBORNE PAINT PAVEMENT MARKINGS	LF			
		PROJECT WIDE				
		ON BASE COURSE OR MILLED SURFACES		280.00	0021	02
		ON FINAL PAVED SURFACES		280.00	0021	02
Item T20.0912 Total:				560.00		
307	T20.1401	WATERBORNE PAINT PAVEMENT MARKING SYMBOL - ARROW (STRAIGHT, LEFT, RIGHT OR COMBINED) STANDARD 20.1.0	EACH			
		PROJECT WIDE				

Distribution of Quantities

Project Name - Bridge Group 49 - Henderson

Estimate Name - Addendum No. 4

R.I. Contract No. - 2019-CB-094

FAP Nos: BRO-0600(005), STPG-0600(006)

Item No.	Item Code	Description	UM	Qty.	Pay Code	Seq. No.
S311	T20.2406	Cont.				
		STA. 500+37 TO STA. 500+75	RT	16.00	0021	02
		STA. 500+66 TO STA. 500+68		56.00	0021	02
		STA. 500+74 TO STA. 501+52	LT	77.00	0021	02
		STA. 500+78 TO STA. 502+48	RT	174.00	0021	02
		STA. 500+79 TO STA. 502+96	LT	221.00	0021	02
		STA. 500+84 TO STA. 500+85		38.00	0021	02
		STA. 500+85 TO STA. 511+02	RT	1,020.00	0021	02
		STA. 502+04 TO STA. 502+31	LT	32.00	0021	02
		STA. 502+80 TO STA. 506+48	RT	100.00	0021	02
		STA. 503+26 TO STA. 505+76	LT	70.00	0021	02
		STA. 506+39 TO STA. 511+02	LT	464.00	0021	02
		STA. 506+51 TO STA. 507+43	LT		0021	02
		STA. 506+55 TO STA. 508+73	RT	74.00	0021	02
		SOUTH ANGELL STREET				
		STA. 202+31 TO STA. 207+61		140.00	0021	02
		STA. 202+31 TO STA. 207+65	LT	535.00	0021	02
		WATERFRONT DRIVE - NORTH				
		STA. 400+22 TO STA. 403+00	LT	331.00	0021	02
		STA. 400+51 TO STA. 403+00	RT	271.00	0021	02
		WATERFRONT DRIVE - SOUTH				
		STA. 300+49 TO STA. 302+24	LT	175.00	0021	02
		STA. 300+49 TO STA. 305+46	RT	501.00	0021	02
		STA. 302+97 TO STA. 311+71	LT	879.00	0021	02
		STA. 305+39 TO STA. 306+94	RT	165.00	0021	02
		STA. 305+85 TO STA. 308+67	RT	281.00	0021	02
		STA. 307+26 TO STA. 307+52	RT	26.00	0021	02
		STA. 307+73 TO STA. 308+67	RT	97.00	0021	02
		STA. 307+76 TO STA. 309+67	RT	197.00	0021	02
		STA. 308+85 TO STA. 310+14	RT	40.00	0021	02
		STA. 309+95 TO STA. 311+65	LT	50.00	0021	02
		STA. 310+15 TO STA. 311+71	RT	157.00	0021	02
		STA. 310+38 TO STA. 311+13	RT	75.00	0021	02
		STA. 311+85 TO STA. 312+98	RT	114.00	0021	02

Distribution of Quantities

Project Name - Bridge Group 49 - Henderson

Estimate Name - Addendum No. 4

R.I. Contract No. - 2019-CB-094

FAP Nos: BRO-0600(005), STPG-0600(006)

Item No.	Item Code	Description	UM	Qty.	Pay Code	Seq. No.
S311	T20.2406	Cont.				
		STA. 311+85 TO STA. 319+92	RT	210.00	0021	02
		STA. 311+85 TO STA. 319+97	LT	823.00	0021	02
		STA. 312+25 TO STA. 312+98	LT	74.00	0021	02
		STA. 313+41 TO STA. 319+48	LT	160.00	0021	02
		STA. 313+45 TO STA. 317+52	RT	409.00	0021	02
		STA. 316+39 TO STA. 317+76	RT	131.00	0021	02
		STA. 318+21 TO STA. 321+37	RT	506.00	0021	02
		STA. 319+78 TO STA. 321+21	LT	134.00	0021	02
		STA. 320+09 TO STA. 321+21	LT	119.00	0021	02
		STA. 320+19 TO STA. 321+16	RT	105.00	0021	02
		STA. 320+37 TO STA. 321+20	RT	60.00	0021	02
		STA. 321+21 TO STA. 321+49	LT	12.00	0021	02
		STA. 321+30 TO STA. 321+50	RT	18.00	0021	02
		STA. 321+52 TO STA. 321+87	LT	37.00	0021	02
		WATERMAN AVENUE				
		STA. 804+44 TO STA. 805+69	LT	104.00	0021	02
		STA. 804+45 TO STA. 804+64	RT	20.00	0021	02
		WATERMAN STREET				
		STA. 701+09 TO STA. 702+47	LT	146.00	0021	02
		STA. 701+63 TO STA. 703+00	RT	146.00	0021	02
				Item T20.2406 Total:	19,130.00	
S312	T20.2412	12 INCH WHITE FINAL EPOXY RESIN	LF			
		PAVEMENT MARKINGS				
		CURTIS STREET				
		STA. 900+49 TO STA. 900+62		83.00	0021	02
		STA. 901+02 TO STA. 901+14	RT	16.00	0021	02
		HENDERSON PARKWAY				
		STA. 101+90 TO STA. 102+00	RT	60.00	0021	02
		STA. 101+95 TO STA. 102+02	RT	6.00	0021	02
		STA. 122+95 TO STA. 123+06	LT	17.00	0021	02
		STA. 124+48 TO STA. 124+83	RT	93.00	0021	02
		STA. 125+25 TO STA. 125+66	RT	31.00	0021	02

Distribution of Quantities

Project Name - Bridge Group 49 - Henderson

Estimate Name - Addendum No. 4

R.I. Contract No. - 2019-CB-094

FAP Nos: BRO-0600(005), STPG-0600(006)

Item No.	Item Code	Description	UM	Qty.	Pay Code	Seq. No.
S316	T20.2804	Cont.				
		STA. 900+67 TO STA. 901+19	LT	58.00	0021	02
		STA. 900+67 TO STA. 901+19	RT	54.00	0021	02
		HENDERSON PARKWAY				
		STA. 101+59 TO STA. 101+89	RT	28.00	0021	02
		STA. 102+00 TO STA. 102+94	RT	94.00	0021	02
		STA. 102+02 TO STA. 102+27	RT	24.00	0021	02
		STA. 102+37 TO STA. 103+56	RT	30.00	0021	02
		STA. 102+94 TO STA. 121+78	RT	3,976.00	0021	02
		STA. 103+63 TO STA. 104+36	RT	91.00	0021	02
		STA. 104+41 TO STA. 120+56	RT	402.00	0021	02
		STA. 117+65 TO STA. 118+35	RT		0021	02
		STA. 118+38 TO STA. 120+80	RT		0021	02
		STA. 120+64 TO STA. 121+85	RT	146.00	0021	02
		STA. 120+89 TO STA. 121+85	RT	99.00	0021	02
		STA. 121+78 TO STA. 125+67	RT	390.00	0021	02
		STA. 121+78 TO STA. 125+73	LT	398.00	0021	02
		STA. 121+93 TO STA. 123+35	RT	42.00	0021	02
		STA. 123+43 TO STA. 123+48	RT	256.00	0021	02
		STA. 124+15 TO STA. 125+02	RT	146.00	0021	02
		STA. 125+96 TO STA. 127+07		358.00	0021	02
		STA. 127+31 TO STA. 132+46	LT	515.00	0021	02
		STA. 127+32 TO STA. 132+46	RT	522.00	0021	02
		STA. 94+89 TO STA. 101+90	RT	701.00	0021	02
		STA. 97+99 TO STA. 98+58	RT	145.00	0021	02
		STA. 98+67 TO STA. 101+49	RT	72.00	0021	02
		MASSASOIT AVENUE				
		STA. 500+00 TO STA. 502+04	LT	244.00	0021	02
		STA. 500+84 TO STA. 503+80	LT	309.00	0021	02
		STA. 500+84 TO STA. 503+80	RT	298.00	0021	02
		STA. 503+80 TO STA. 505+92		424.00	0021	02
		STA. 506+13 TO STA. 506+15	LT	100.00	0021	02
		STA. 506+51 TO STA. 511+02		902.00	0021	02
		STA. 508+44 TO STA. 509+80	RT		0021	02

Distribution of Quantities

Project Name - Bridge Group 49 - Henderson

Estimate Name - Addendum No. 4

R.I. Contract No. - 2019-CB-094

FAP Nos: BRO-0600(005), STPG-0600(006)

Item No.	Item Code	Description	UM	Qty.	Pay Code	Seq. No.
S316	T20.2804	Cont. SOUTH ANGELL STREET				

Distribution of Quantities

Project Name - Bridge Group 49 - Henderson
 Estimate Name - Addendum No. 4
 R.I. Contract No. - 2019-CB-094
 FAP Nos: BRO-0600(005), STPG-0600(006)

Item No.	Item Code	Description	UM	Qty.	Pay Code	Seq. No.
S316	T20.2804	Cont.		Item T20.2804 Total:		17,450.00
S317	T20.2812	12 INCH YELLOW FINAL EPOXY RESIN PAVEMENT MARKINGS	LF			
		HENDERSON PARKWAY				
		STA. 102+99 TO STA. 103+80		55.00	0021	02
		STA. 120+70 TO STA. 121+74		35.00	0021	02
		MASSASOIT AVENUE				
		STA. 506+80 TO STA. 508+38			0021	02
		WATERFRONT DRIVE - SOUTH				
		STA. 303+24 TO STA. 305+40 LT		190.00	0021	02
		Item T20.2812 Total:		280.00		
318	T20.2906	6 INCH YELLOW INTERIM EPOXY RESIN PAVEMENT MARKINGS	LF			
		TEMPORARY TRAFFIC CONTROL				
		PHASE 1		10,740.00	0011	01
		PHASE 1A		7,440.00	0011	01
		PHASE 2		2,700.00	0011	01
		PHASE 4		3,500.00	0011	01
		PHASE 5		1,100.00	0011	01
		SUPPLEMENTAL		1,020.00	0011	01
		Item T20.2906 Total:		**DELETED**		
319	T20.2912	12 INCH YELLOW INTERIM EPOXY RESIN PAVEMENT MARKINGS	LF			
		TEMPORARY TRAFFIC CONTROL				
		PHASE 1A		1,600.00	0011	01
		PHASE 4		225.00	0011	01
		PHASE 5A		385.00	0011	01
		Item T20.2912 Total:		2,210.00		
S320	T20.3401	FINAL EPOXY RESIN PAVEMENT MARKING	EACH			

Distribution of Quantities

Project Name - Bridge Group 49 - Henderson

Estimate Name - Addendum No. 4

R.I. Contract No. - 2019-CB-094

FAP Nos: BRO-0600(005), STPG-0600(006)

Item No.	Item Code	Description	UM	Qty.	Pay Code	Seq. No.
326	T20.3510	Cont. "SCHOOL", OR OTHER) STANDARD 20.1.0				
		TEMPORARY TRAFFIC CONTROL				
		PHASE 1		1.00	0011	01
		PHASE 1A		6.00	0011	01
				Item T20.3510 Total:		7.00
327	T20.4506	REMOVE PAVEMENT MARKING LINE - LESS THAN OR EQUAL TO 6 INCHES WIDE	LF			
		HENDERSON PARKWAY				
		STA. 135+81 TO STA. 136+96 LT		116.00	0011	01
		STA. 137+29 TO STA. 139+00 LT		208.00	0011	01
		MASSASOIT AVENUE				
		STA. 506+37 TO STA. 508+17 LT			0011	01
		STA. 506+48 TO STA. 508+23 LT			0011	01
		STA. 508+23 TO STA. 509+80 RT			0011	01
		STA. 509+80 TO STA. 511+02 LT		246.00	0011	01
		STA. 509+80 TO STA. 511+02 RT		123.00	0011	01
		STA. 510+54 TO STA. 511+02 RT		48.00	0011	01
		PROJECT WIDE				
		AS NEEDED		69.00	0011	01
		TEMPORARY TRAFFIC CONTROL				
		PHASE 1		16,100.00	0011	01
		PHASE 1A		4,220.00	0011	01
		PHASE 2		7,700.00	0011	01
		PHASE 3		3,200.00	0011	01
		PHASE 4		3,500.00	0011	01
		SUPPLEMENTAL QTY		1,000.00	0011	01
				Item T20.4506 Total:		36,530.00
328	T20.4508	REMOVE PAVEMENT MARKING LINE - GREATER THAN 6 INCHES WIDE	LF			
		TEMPORARY TRAFFIC CONTROL				

Distribution of Quantities

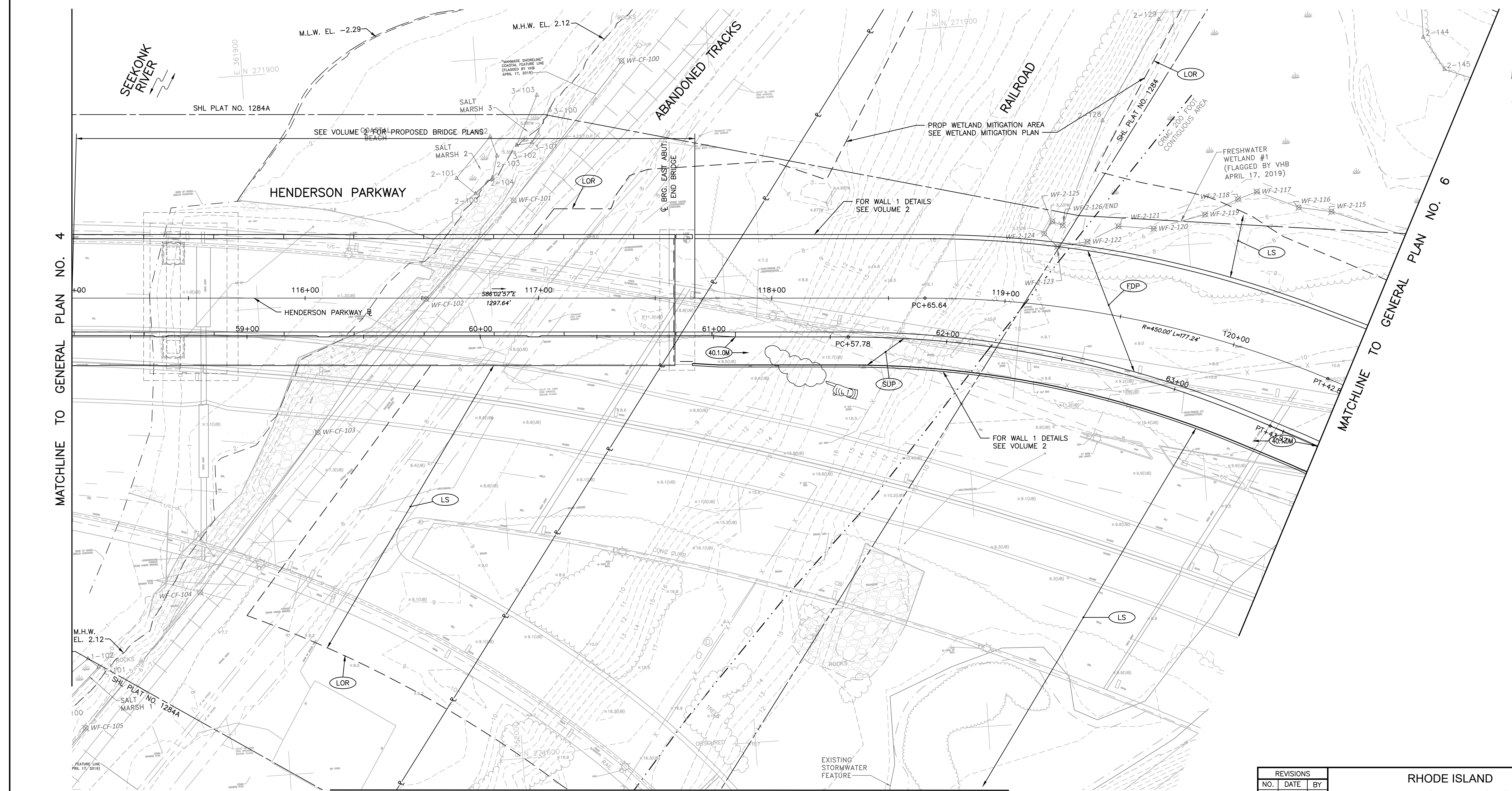
Project Name - Bridge Group 49 - Henderson

Estimate Name - Addendum No. 4

R.I. Contract No. - 2019-CB-094

FAP Nos: BRO-0600(005), STPG-0600(006)

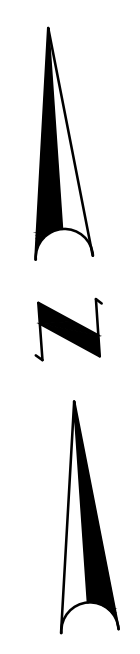
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328	T20.4508 Cont.	PHASE 1		1,180.00	0011	01
		PHASE 1A		400.00	0011	01
		PHASE 5A		500.00	0011	01



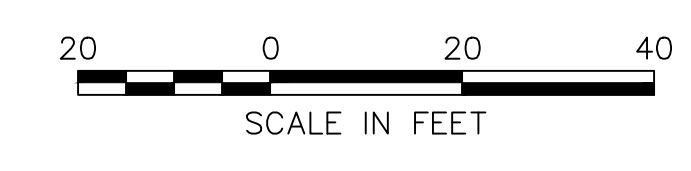
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MATCHLINE TO GENERAL PLAN NO. 6

MATCHLINE TO GENERAL PLAN NO. 13



ADDENDUM NO. 4



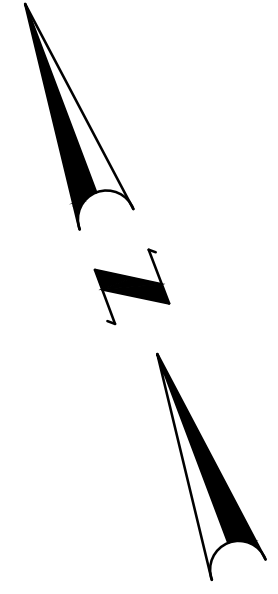
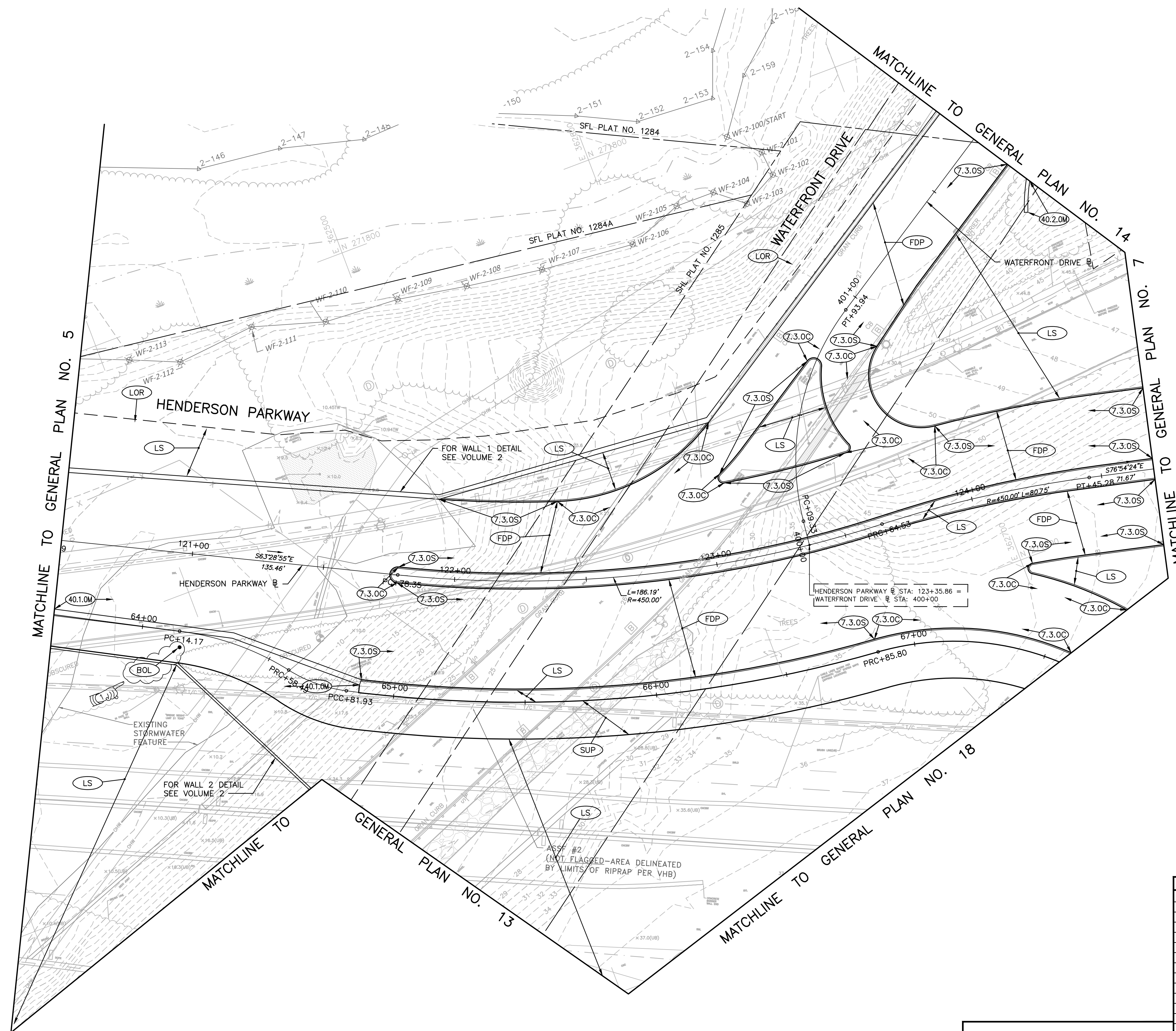
REVISIONS		
NO.	DATE	BY
1	5/1/20	VHB

RHODE ISLAND
DEPARTMENT OF TRANSPORTATION

BRIDGE GROUP 49 - HENDERSON
RECONSTRUCTION OF
HENDERSON BRIDGE NO. 600
PROVIDENCE/EAST PROVIDENCE, RHODE ISLAND

GENERAL PLAN NO. 5

CHECKED BY _____ DATE _____ SCALE _____



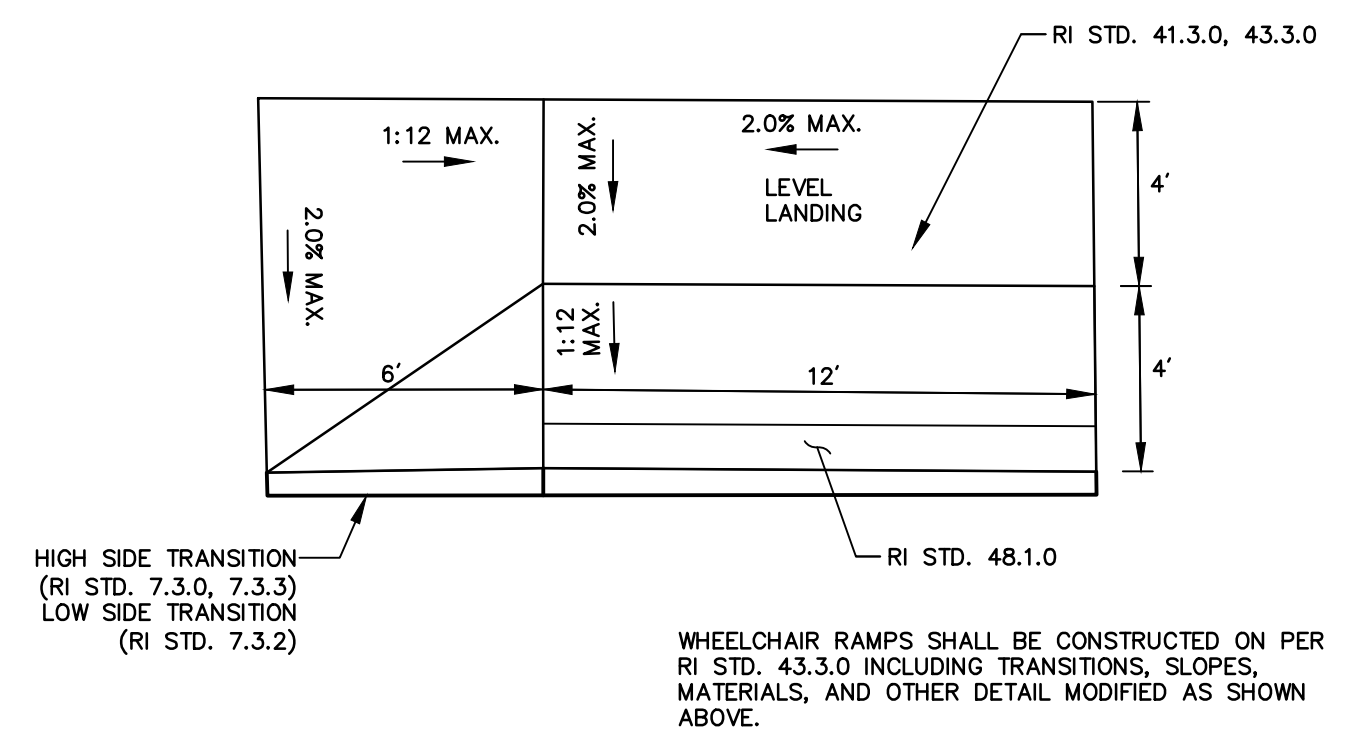
REVISIONS			RHODE ISLAND DEPARTMENT OF TRANSPORTATION	
NO.	DATE	BY		
1	5/1/20	VHB		

BRIDGE GROUP 49 - HENDERSON RECONSTRUCTION OF HENDERSON BRIDGE NO. 600
 PROVIDENCE/EAST PROVIDENCE, RHODE ISLAND

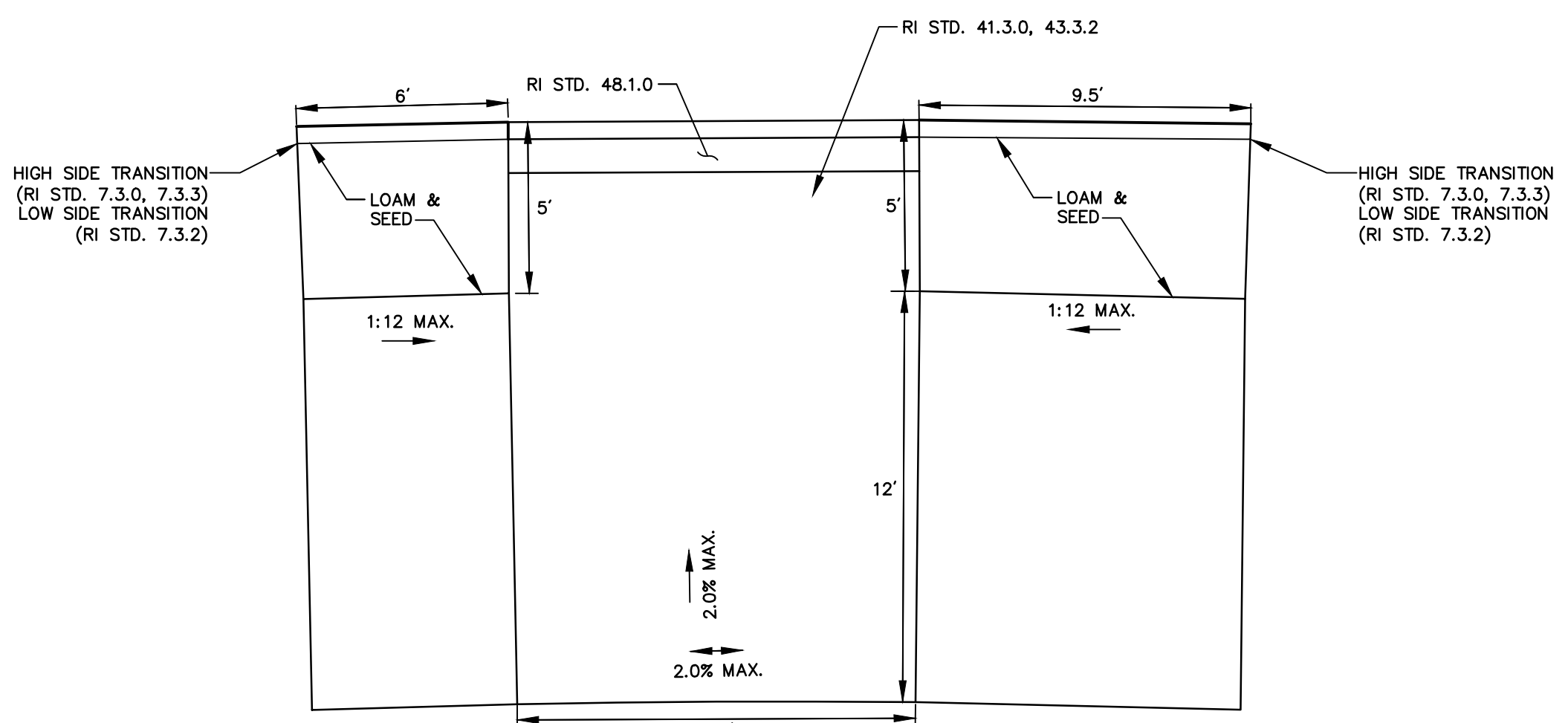
GENERAL PLAN NO. 6

CHECKED BY _____ DATE _____ SCALE _____

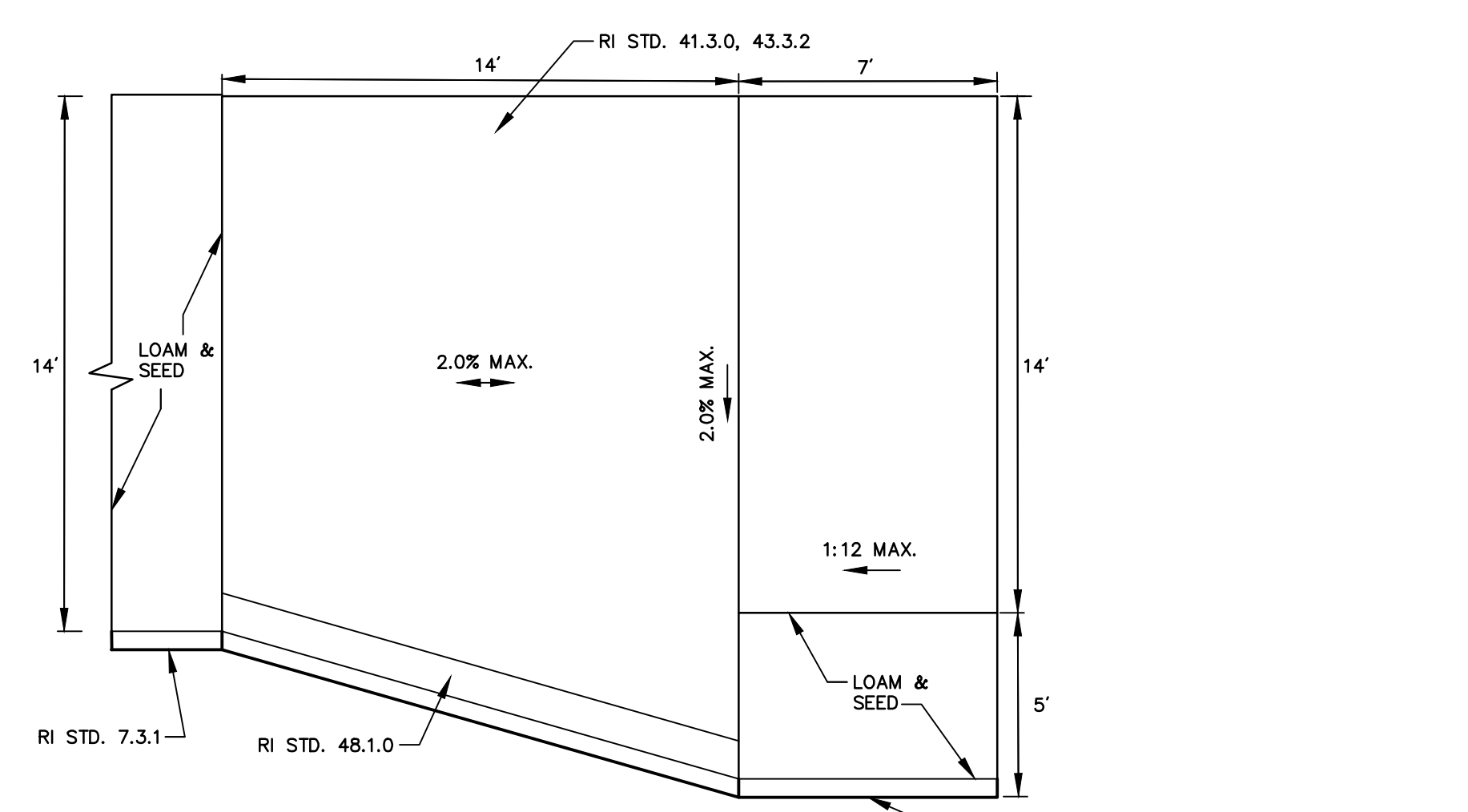
FED. ROAD DIV. NO.	STATE	FEDERAL AID PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
	RI		2020	59	197



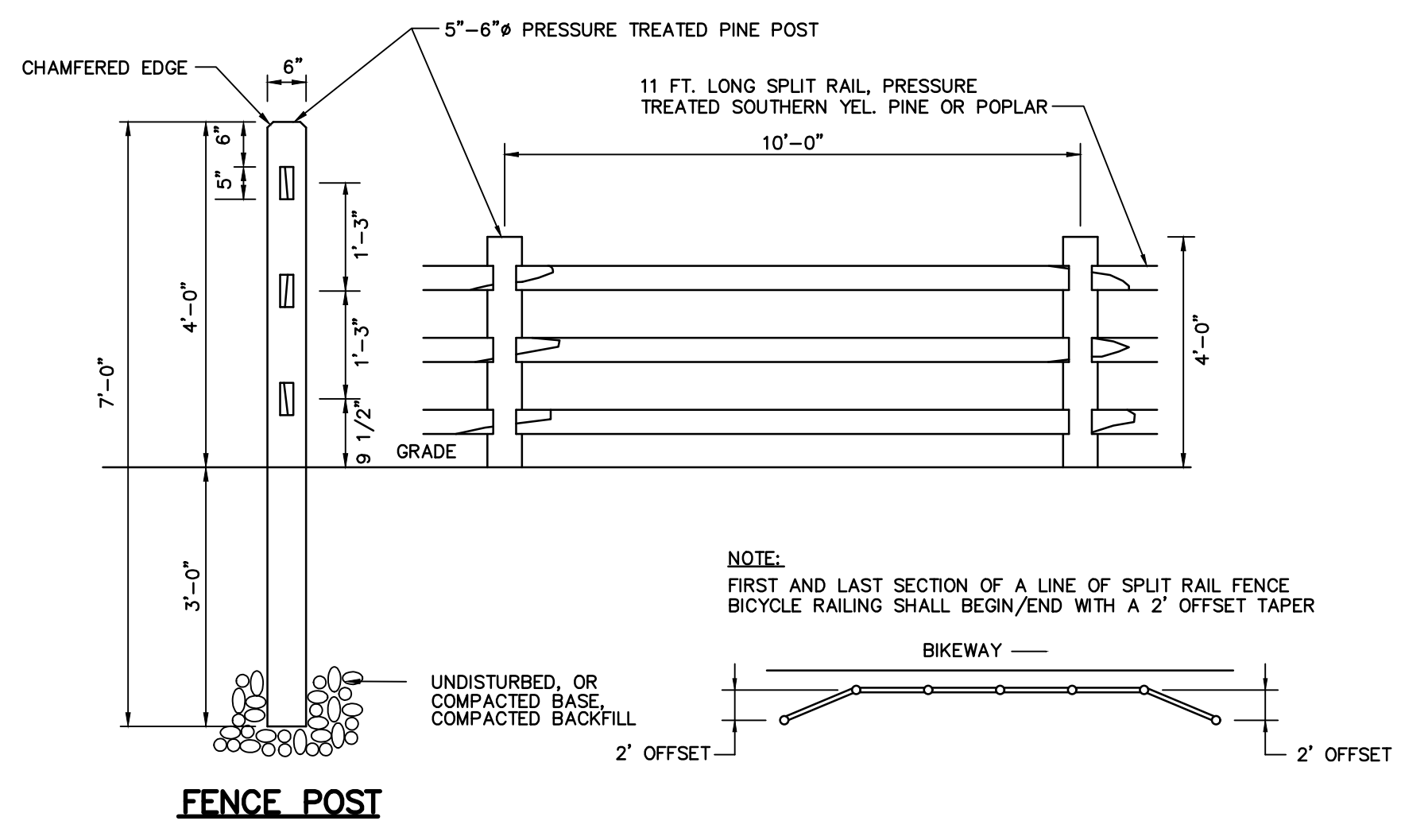
WHEELCHAIR RAMP 2 DETAIL
HENDERSON BRIDGE
STA. 101+83 TO STA. 102+02 LT (WCR2)
 NOT TO SCALE



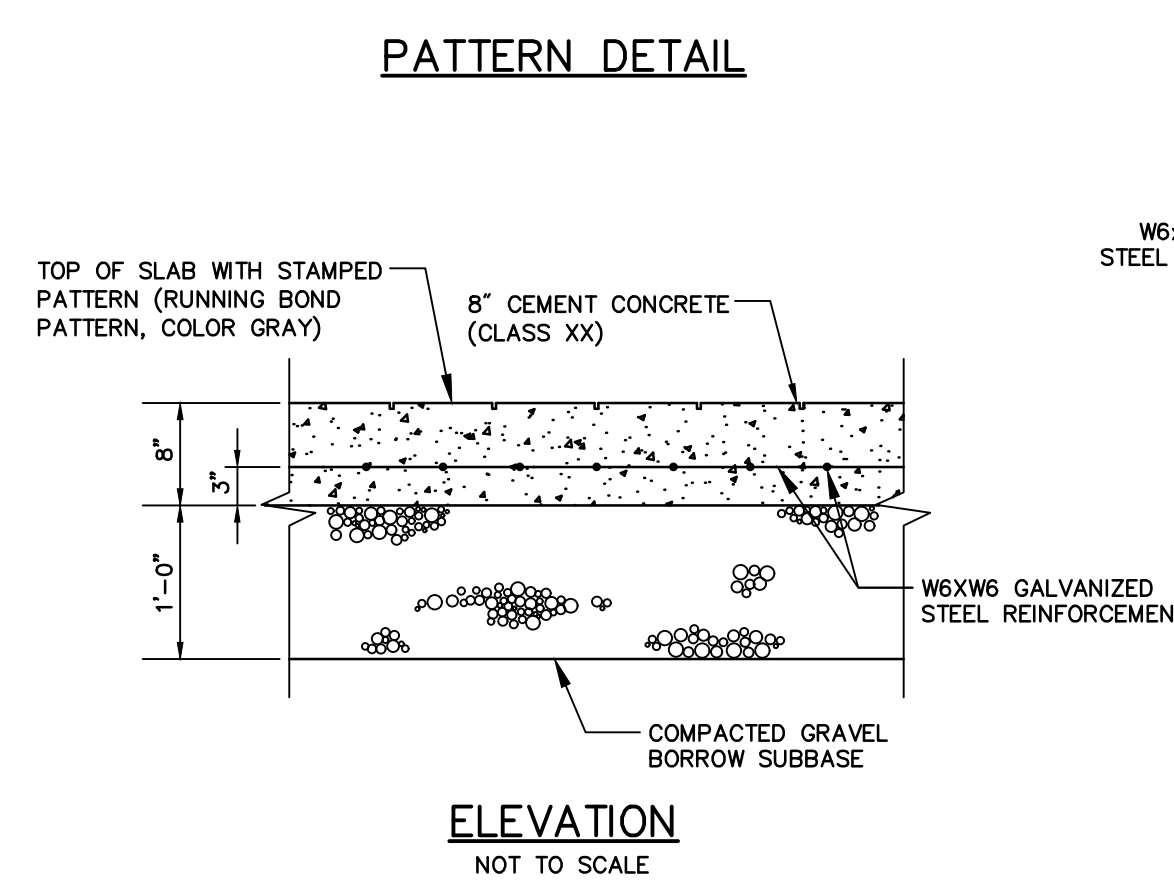
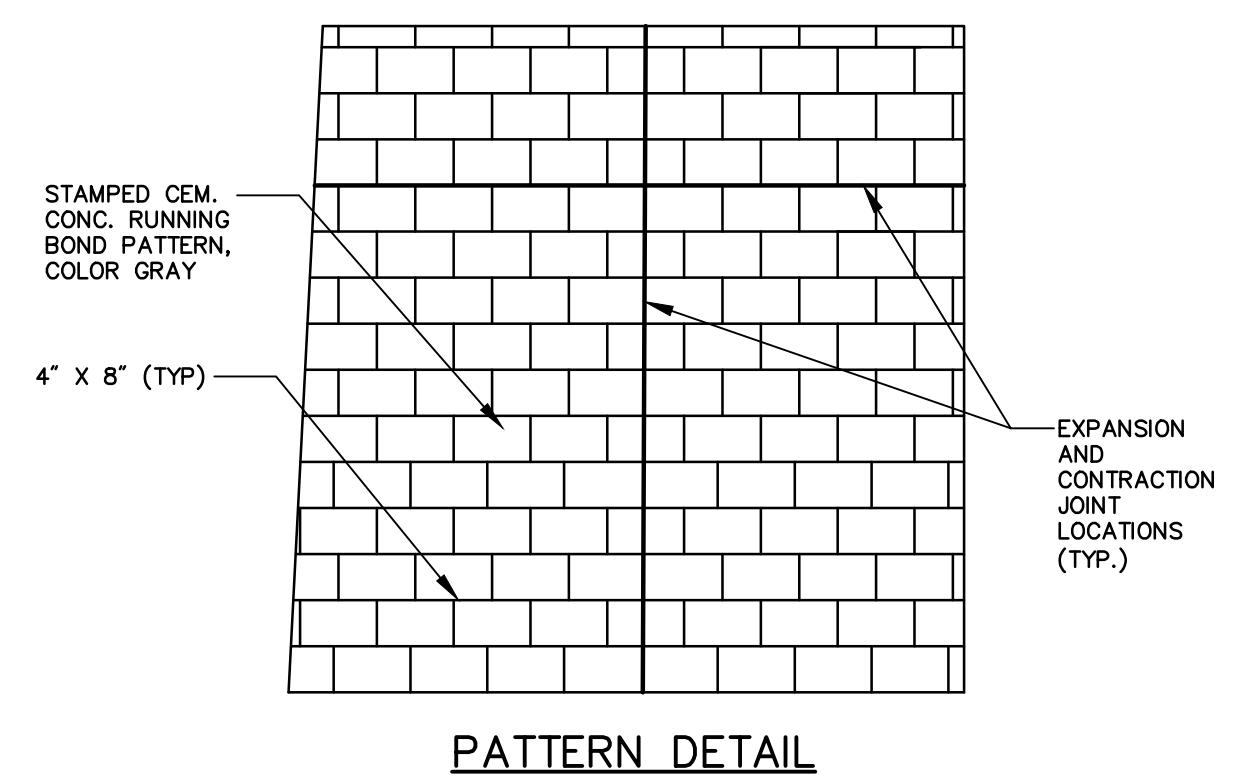
WHEELCHAIR RAMP 4 DETAIL
HENDERSON BRIDGE
STA. 101+82 TO STA. 102+12 RT (WCR4)
 NOT TO SCALE



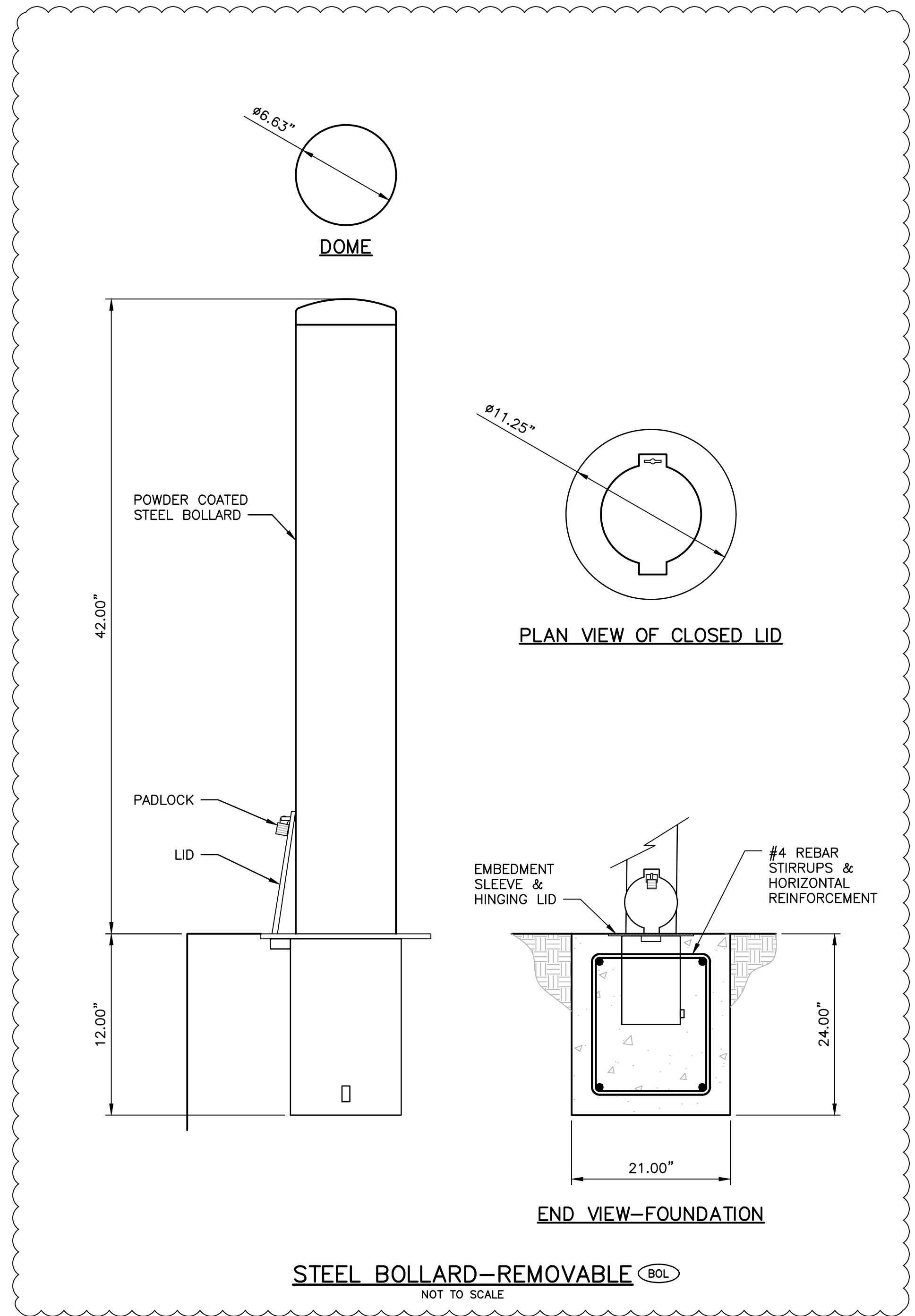
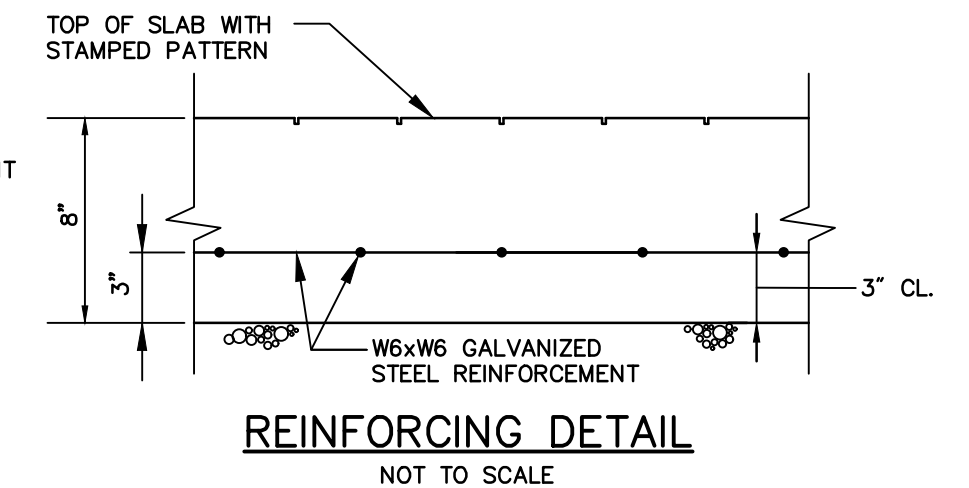
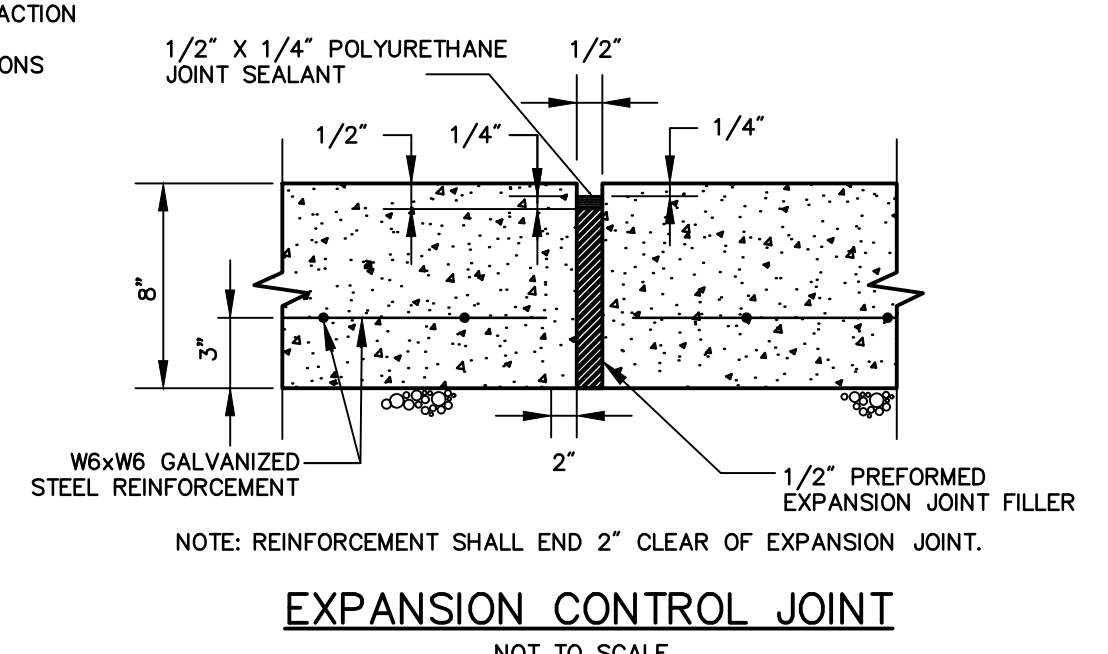
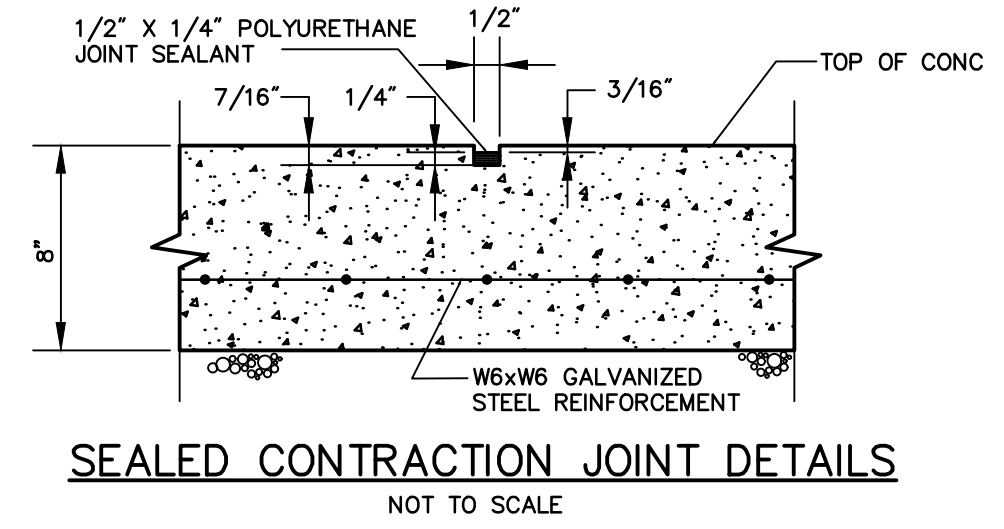
WHEELCHAIR RAMP 5 DETAIL
WATERFRONT DR SOUTH
STA. 311+68 TO STA. 311+92 LT (WCR5)
 NOT TO SCALE



SPLIT RAIL FENCE BICYCLE RAILING (SRF)
 NOT TO SCALE



CEMENT CONCRETE TRUCK APRON (CTA)
 NOT TO SCALE



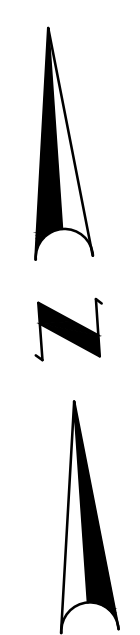
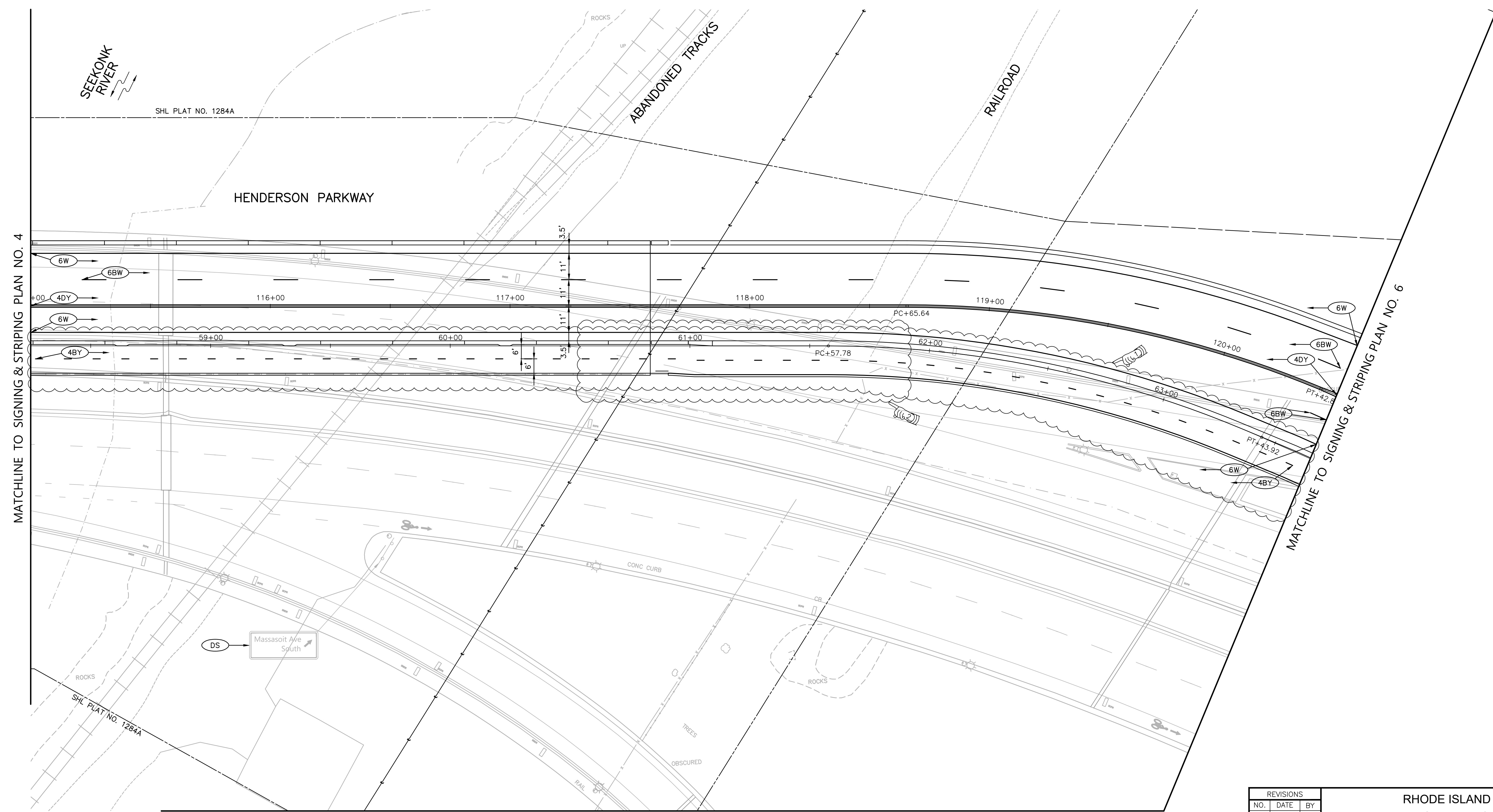
REVISIONS		
NO.	DATE	BY
1	5/1/20	VHB

RHODE ISLAND
 DEPARTMENT OF TRANSPORTATION
 BRIDGE GROUP 49 - HENDERSON
 RECONSTRUCTION OF
 HENDERSON BRIDGE NO. 600
 PROVIDENCE/EAST PROVIDENCE, RHODE ISLAND

MISCELLANEOUS
 DETAILS NO. 6

CHECKED BY _____ DATE _____ SCALE _____





MATCHLINE TO SIGNING & STRIPING PLAN NO. 4

MATCHLINE TO SIGNING & STRIPING PLAN NO. 6

MATCHLINE TO SIGNING & STRIPING PLAN NO. 13



vhb
 1 Cedar Street
 Suite 400
 Providence, RI 02903
 401.272.8100

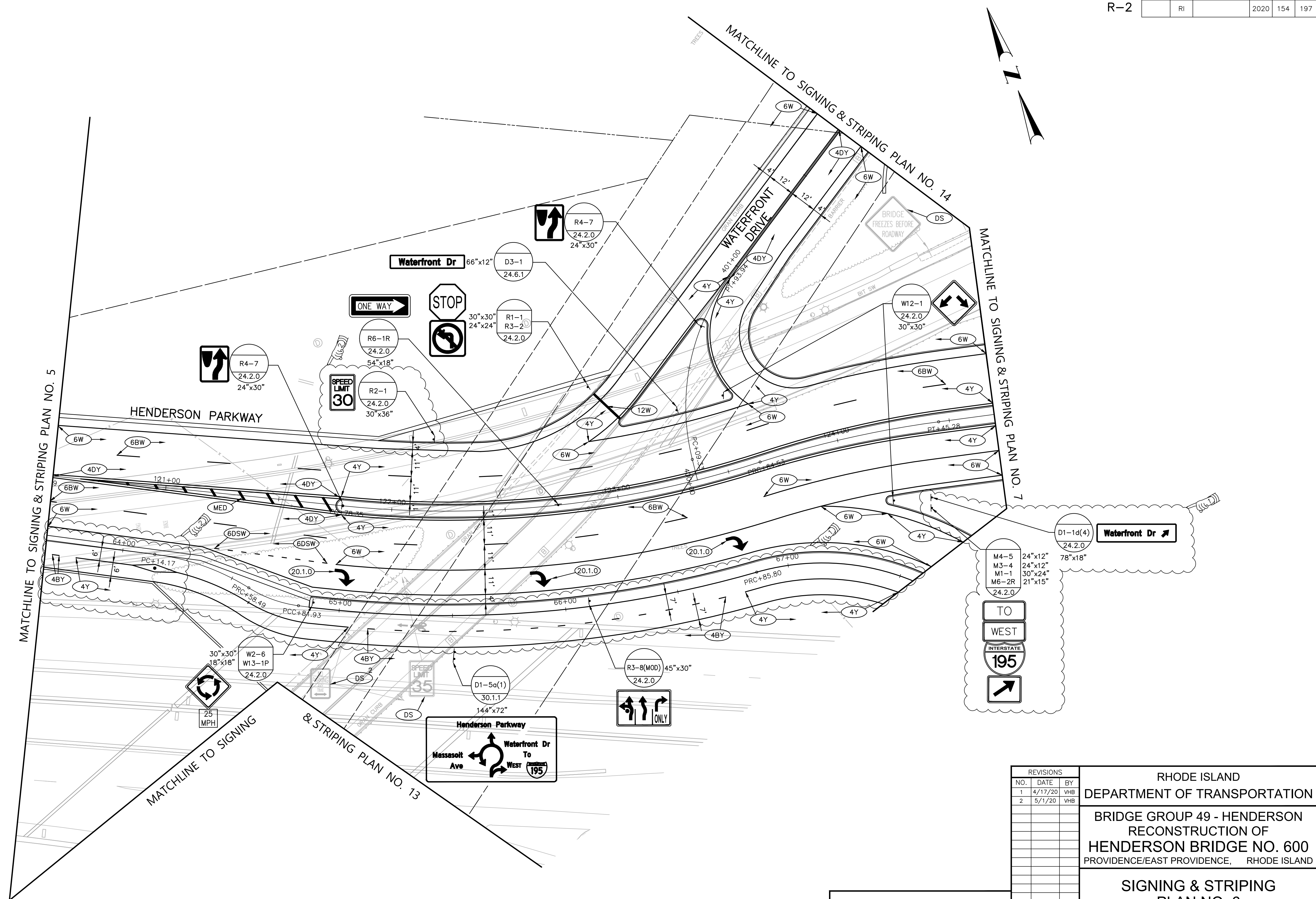
REVISIONS		
NO.	DATE	BY
1	4/17/20	VHB
2	5/1/20	VHB

RHODE ISLAND
 DEPARTMENT OF TRANSPORTATION

**BRIDGE GROUP 49 - HENDERSON
 RECONSTRUCTION OF
 HENDERSON BRIDGE NO. 600**
 PROVIDENCE/EAST PROVIDENCE, RHODE ISLAND

**SIGNING & STRIPING
 PLAN NO. 5**

CHECKED BY _____ DATE _____ SCALE _____



NOTES:
 1. SEE SIGNING & STRIPING TYPICAL DETAIL PLANS FOR ADDITIONAL DIMENSIONS OF STREET NAME AND GUIDE SIGNS.

ADDENDUM NO. 4



vhb
 1 Cedar Street
 Suite 400
 Providence, RI 02903
 401.272.8100

REVISIONS		
NO.	DATE	BY
1	4/17/20	VHB
2	5/1/20	VHB

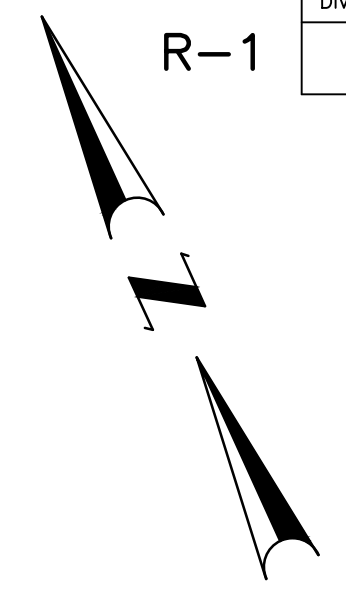
RHODE ISLAND
 DEPARTMENT OF TRANSPORTATION

BRIDGE GROUP 49 - HENDERSON
 RECONSTRUCTION OF
 HENDERSON BRIDGE NO. 600
 PROVIDENCE/EAST PROVIDENCE, RHODE ISLAND

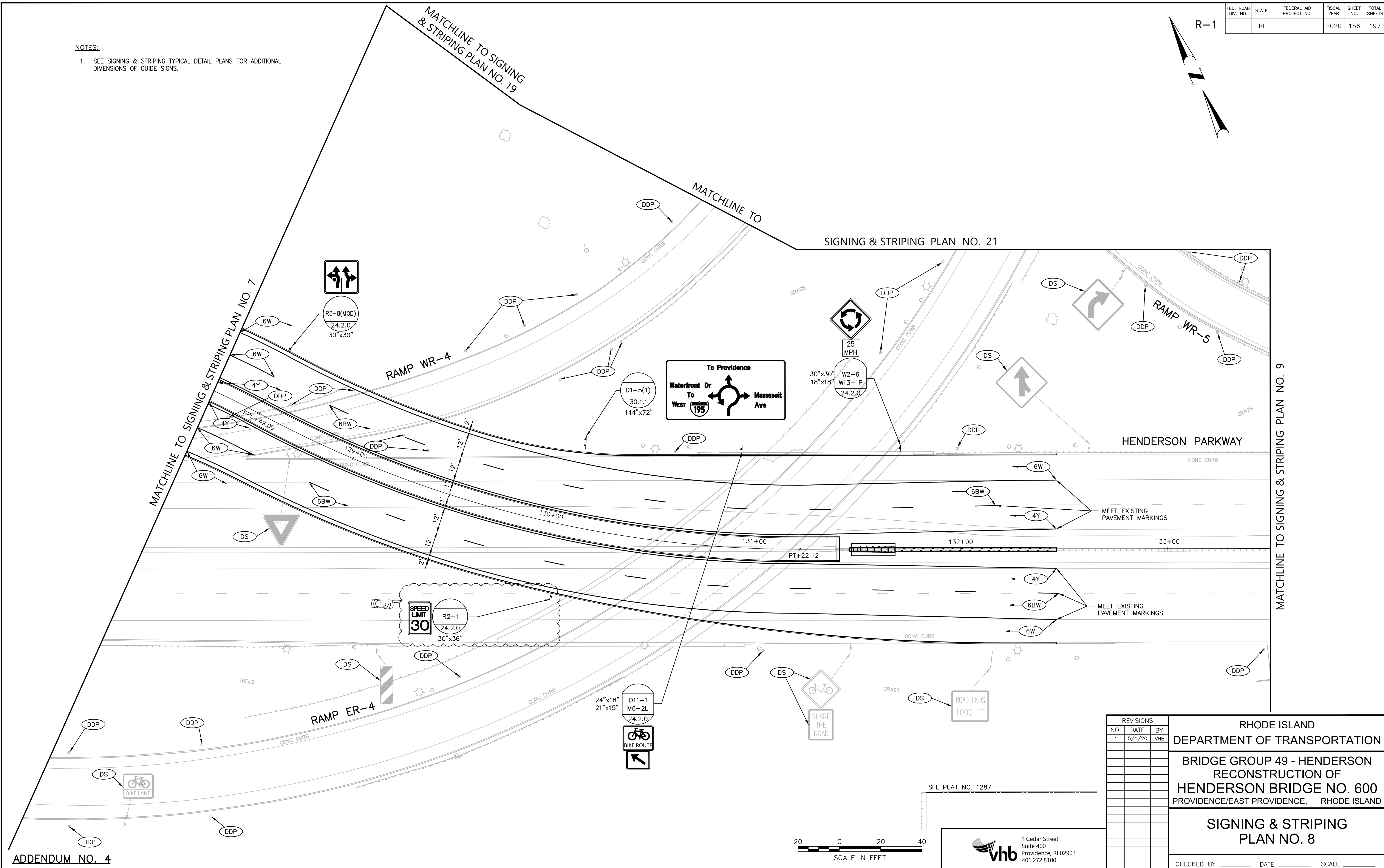
**SIGNING & STRIPING
 PLAN NO. 6**

CHECKED BY _____ DATE _____ SCALE _____

FED. ROAD DIV. NO.	STATE	FEDERAL AID PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
	RI		2020	156	197



NOTES:
1. SEE SIGNING & STRIPING TYPICAL DETAIL PLANS FOR ADDITIONAL DIMENSIONS OF GUIDE SIGNS.



ADDENDUM NO. 4



SFL PLAT NO. 1287

vhb
1 Cedar Street
Suite 400
Providence, RI 02903
401.272.8100

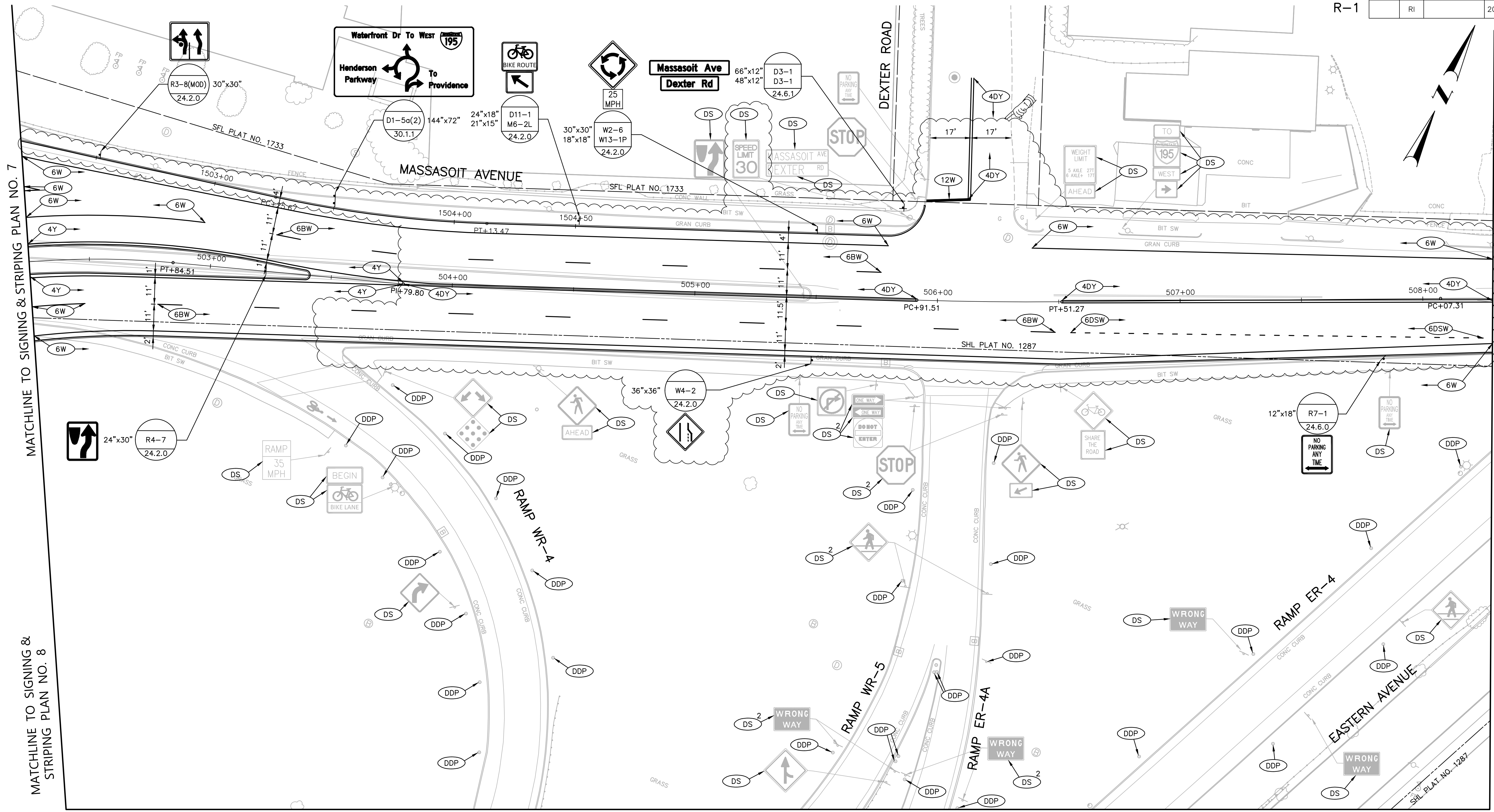
REVISIONS		
NO.	DATE	BY
1	5/1/20	VHB

RHODE ISLAND
DEPARTMENT OF TRANSPORTATION

**BRIDGE GROUP 49 - HENDERSON
RECONSTRUCTION OF
HENDERSON BRIDGE NO. 600**
PROVIDENCE/EAST PROVIDENCE, RHODE ISLAND

**SIGNING & STRIPING
PLAN NO. 8**

CHECKED BY _____ DATE _____ SCALE _____



MATCHLINE TO SIGNING & STRIPING PLAN NO. 7

MATCHLINE TO SIGNING & STRIPING PLAN NO. 8

MATCHLINE TO SIGNING & STRIPING PLAN NO. 20

MATCHLINE TO SIGNING & STRIPING PLAN NO. 21

NOTES:
 1. SEE SIGNING & STRIPING TYPICAL DETAIL PLANS FOR ADDITIONAL DIMENSIONS OF STREET NAME AND GUIDE SIGNS.



vhb
 1 Cedar Street
 Suite 400
 Providence, RI 02903
 401.272.8100

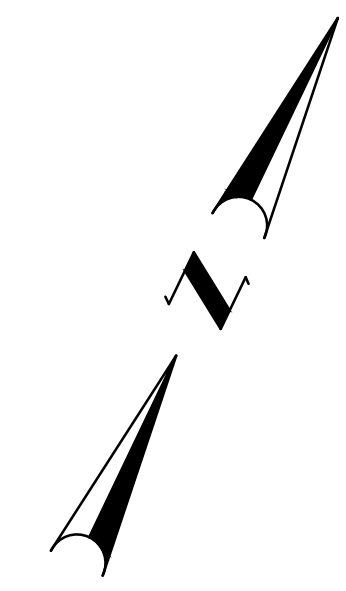
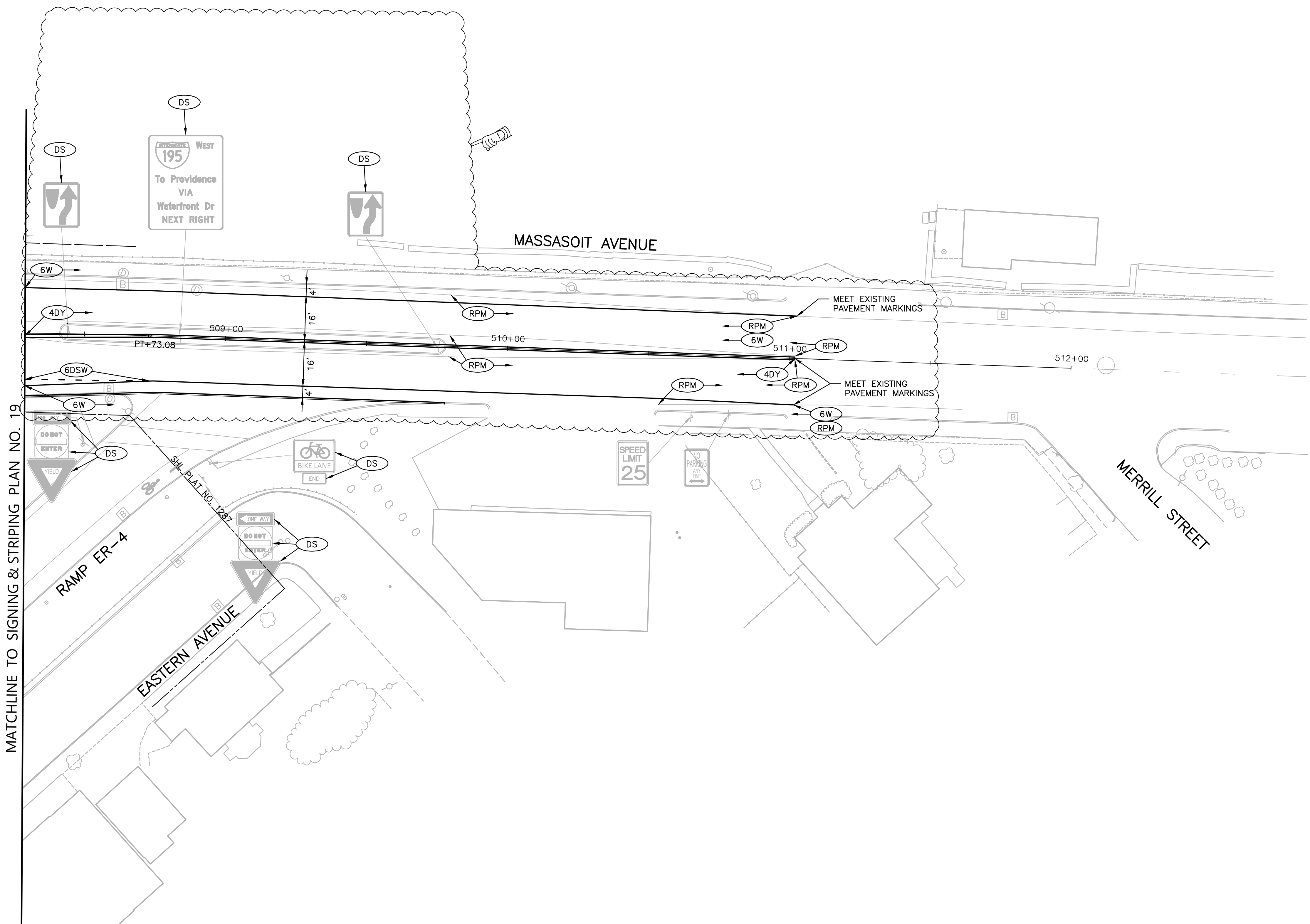
REVISIONS		
NO.	DATE	BY
1	5/1/20	VHB

RHODE ISLAND
 DEPARTMENT OF TRANSPORTATION

**BRIDGE GROUP 49 - HENDERSON
 RECONSTRUCTION OF
 HENDERSON BRIDGE NO. 600**
 PROVIDENCE/EAST PROVIDENCE, RHODE ISLAND

**SIGNING & STRIPING
 PLAN NO. 19**

CHECKED BY _____ DATE _____ SCALE _____



MATCHLINE TO SIGNING & STRIPING PLAN NO. 19



REVISIONS		
NO.	DATE	BY
1	5/1/20	VHB

RHODE ISLAND
DEPARTMENT OF TRANSPORTATION

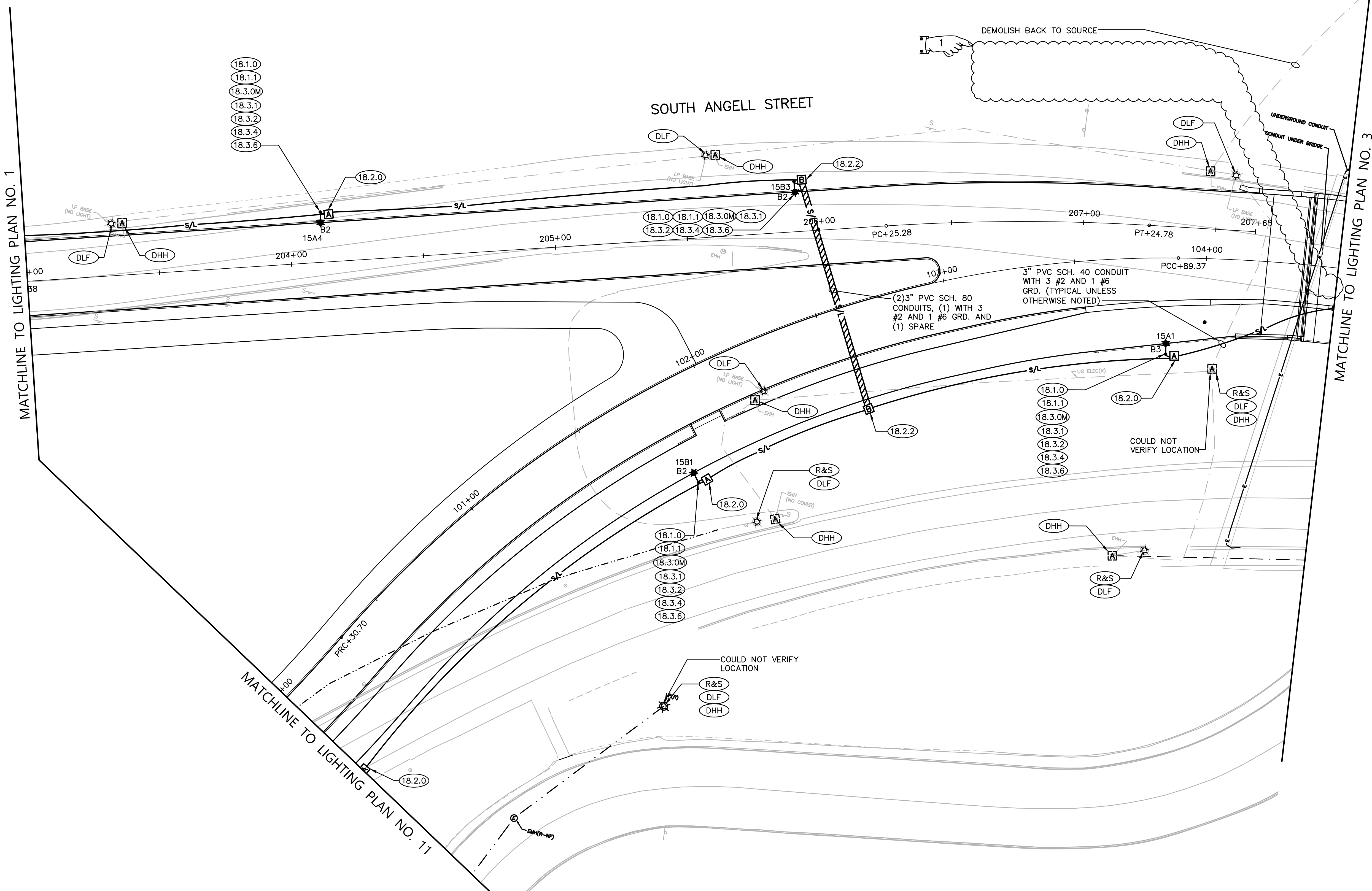
BRIDGE GROUP 49 - HENDERSON
RECONSTRUCTION OF
HENDERSON BRIDGE NO. 600
PROVIDENCE/EAST PROVIDENCE, RHODE ISLAND

**SIGNING & STRIPING
PLAN NO. 20**

CHECKED BY _____ DATE _____ SCALE _____

FED. ROAD DIV. NO.	STATE	FEDERAL AID PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
	RI		2020	176	197

R-1



MATCHLINE TO LIGHTING PLAN NO. 1

MATCHLINE TO LIGHTING PLAN NO. 3

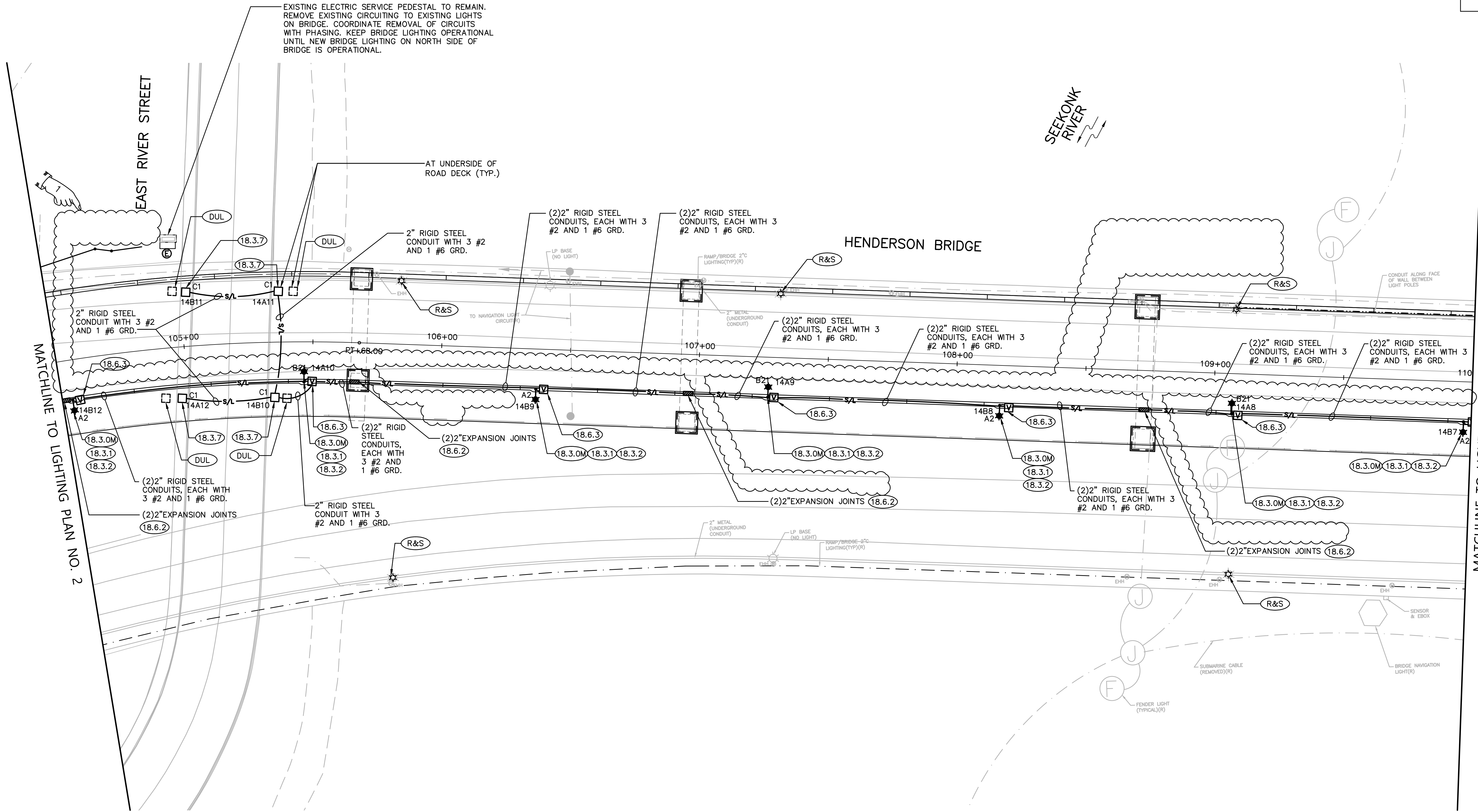
MATCHLINE TO LIGHTING PLAN NO. 11

ADDENDUM NO. 4



REVISIONS		
NO.	DATE	BY
1	5/1/20	CEC

RHODE ISLAND DEPARTMENT OF TRANSPORTATION BRIDGE GROUP 49 - HENDERSON RECONSTRUCTION OF HENDERSON BRIDGE NO. 600 PROVIDENCE/EAST PROVIDENCE, RHODE ISLAND
LIGHTING PLAN NO. 2
CHECKED BY <u> SC </u> DATE <u>02/20/20</u> SCALE <u>AS NOTED</u>



MATCHLINE TO LIGHTING PLAN NO. 2

MATCHLINE TO LIGHTING PLAN NO. 4

ADDENDUM NO. 4



REVISIONS		
NO.	DATE	BY
1	5/1/20	CEC

RHODE ISLAND
DEPARTMENT OF TRANSPORTATION
BRIDGE GROUP 49 - HENDERSON
RECONSTRUCTION OF
HENDERSON BRIDGE NO. 600
PROVIDENCE/EAST PROVIDENCE, RHODE ISLAND

LIGHTING PLAN NO. 3

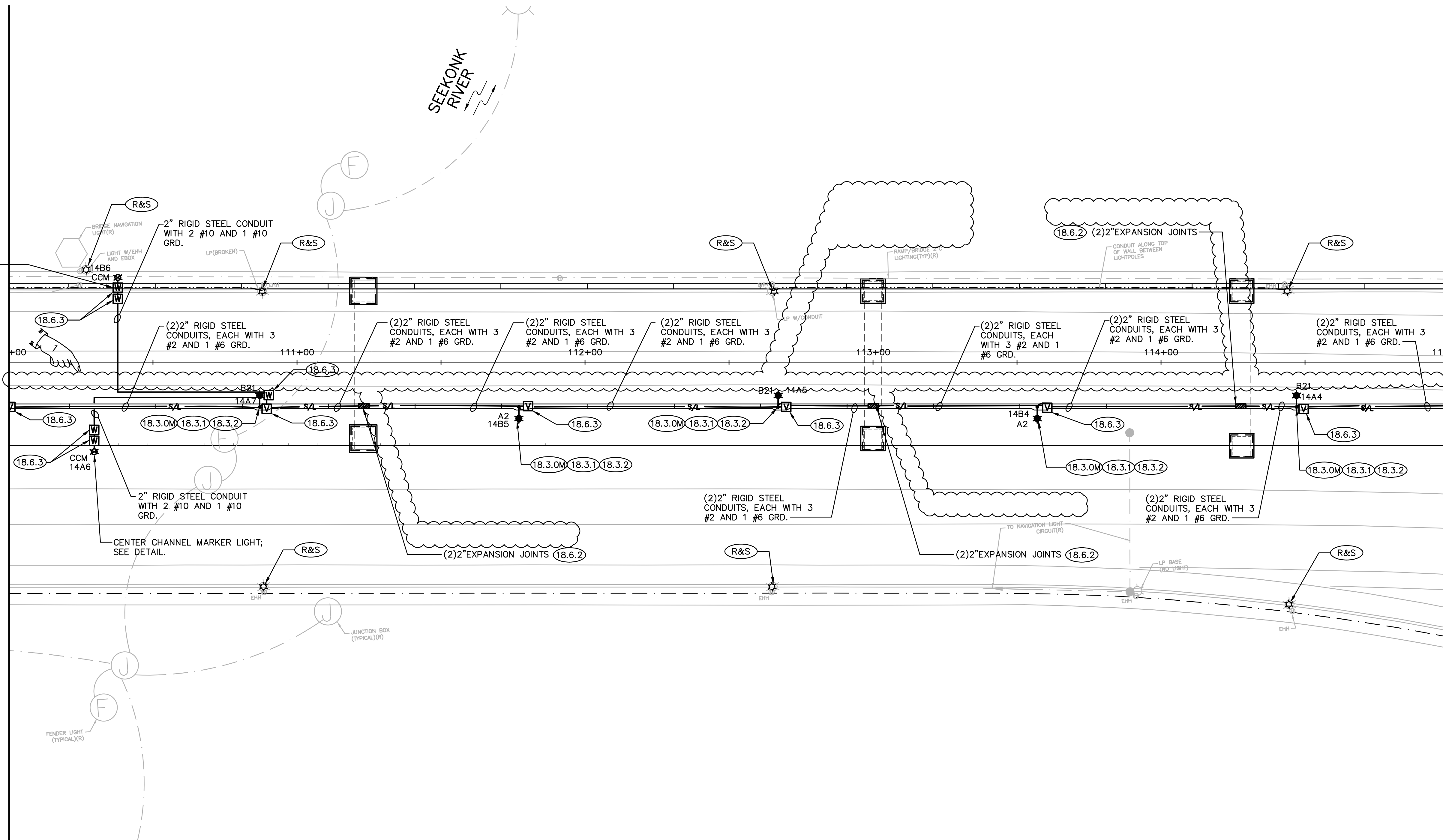
CHECKED BY SC DATE 02/20/20 SCALE AS NOTED

FED. ROAD DIV. NO.	STATE	FEDERAL AID PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
	RI		2020	178	197



16"x16"x8" TYPE "W" GALV. JUNCTION BOX WITH GASKETED COVER (TYP.) SEE BRIDGE TYPICAL SECTION DETAIL.

MATCHLINE TO LIGHTING PLAN NO. 3



MATCHLINE TO LIGHTING PLAN NO. 5



REVISIONS			NO.	DATE	BY
NO.	DATE	BY			
1	5/1/20	CEC			

RHODE ISLAND
DEPARTMENT OF TRANSPORTATION

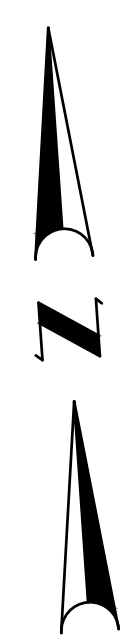
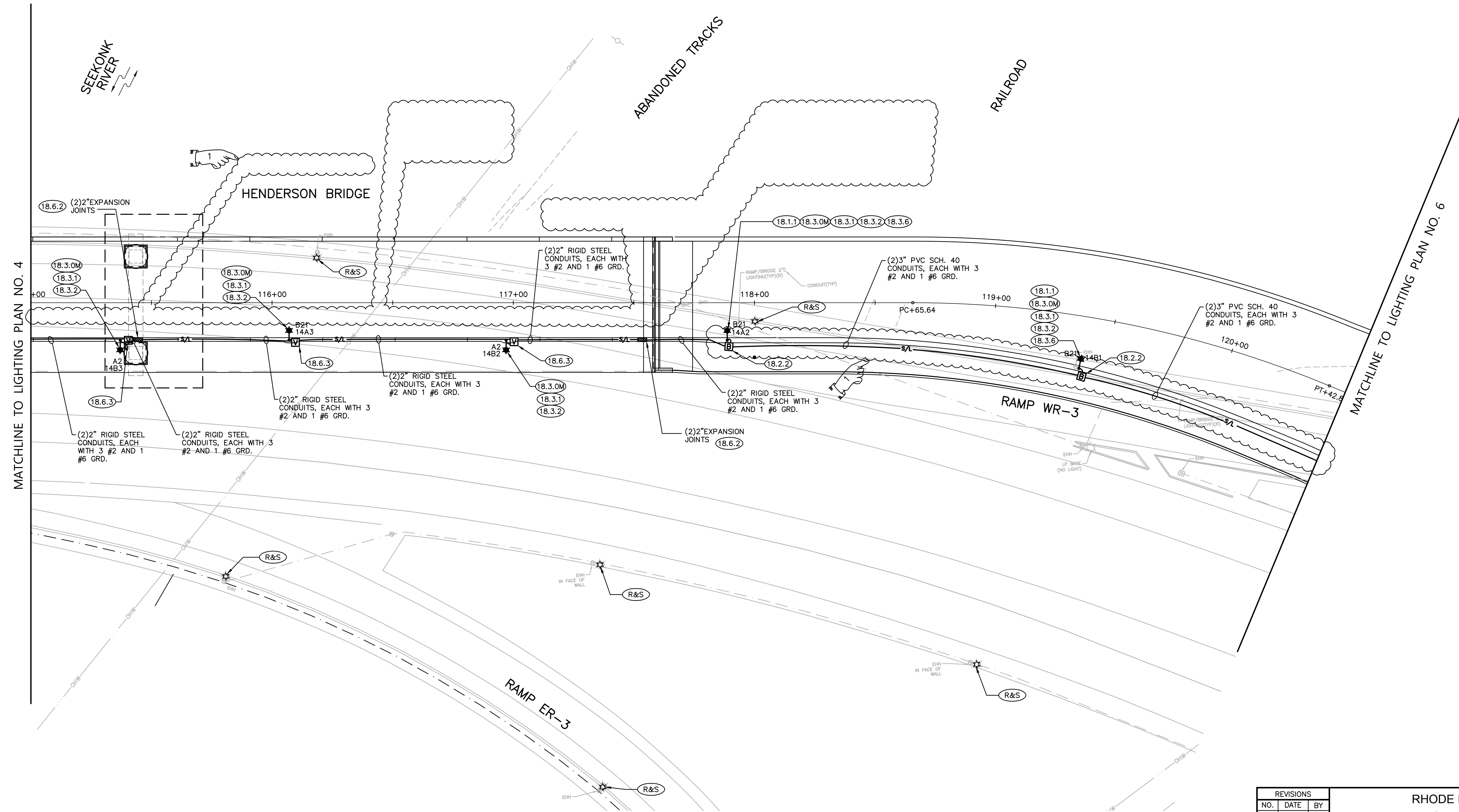
**BRIDGE GROUP 49 - HENDERSON
RECONSTRUCTION OF
HENDERSON BRIDGE NO. 600**
PROVIDENCE/EAST PROVIDENCE, RHODE ISLAND

LIGHTING PLAN NO. 4

CHECKED BY SC DATE 02/20/20 SCALE AS NOTED

R-1

FED. ROAD DIV. NO.	STATE	FEDERAL AID PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
	RI		2020	179	197



ADDENDUM NO. 4

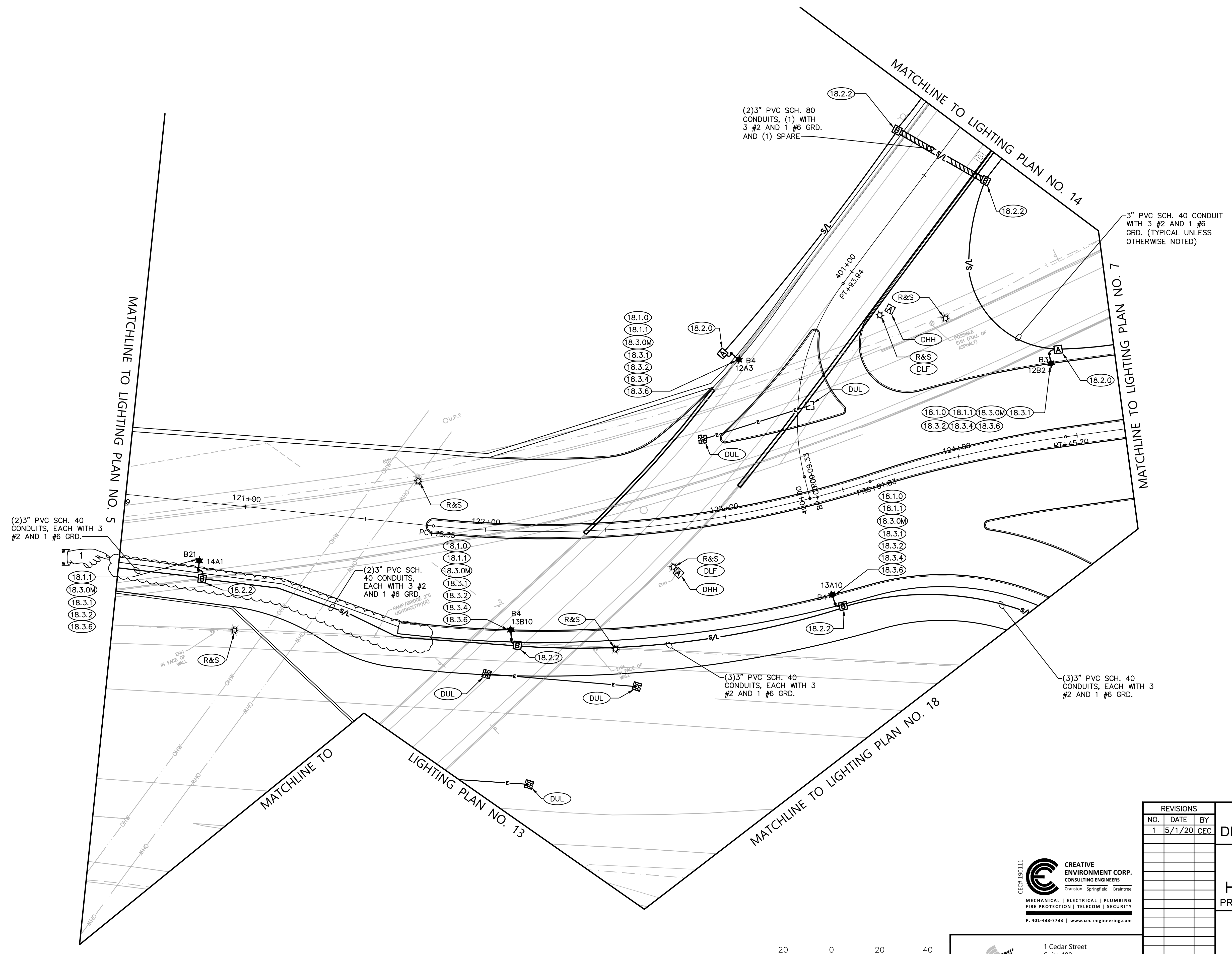
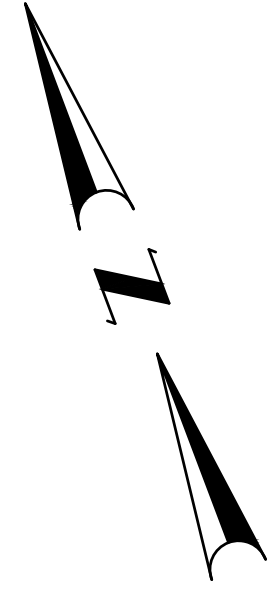
REVISIONS		
NO.	DATE	BY
1	5/1/20	CEC

RHODE ISLAND
DEPARTMENT OF TRANSPORTATION
BRIDGE GROUP 49 - HENDERSON
RECONSTRUCTION OF
HENDERSON BRIDGE NO. 600
PROVIDENCE/EAST PROVIDENCE, RHODE ISLAND

LIGHTING PLAN NO. 5



CHECKED BY SC DATE 02/20/20 SCALE AS NOTED



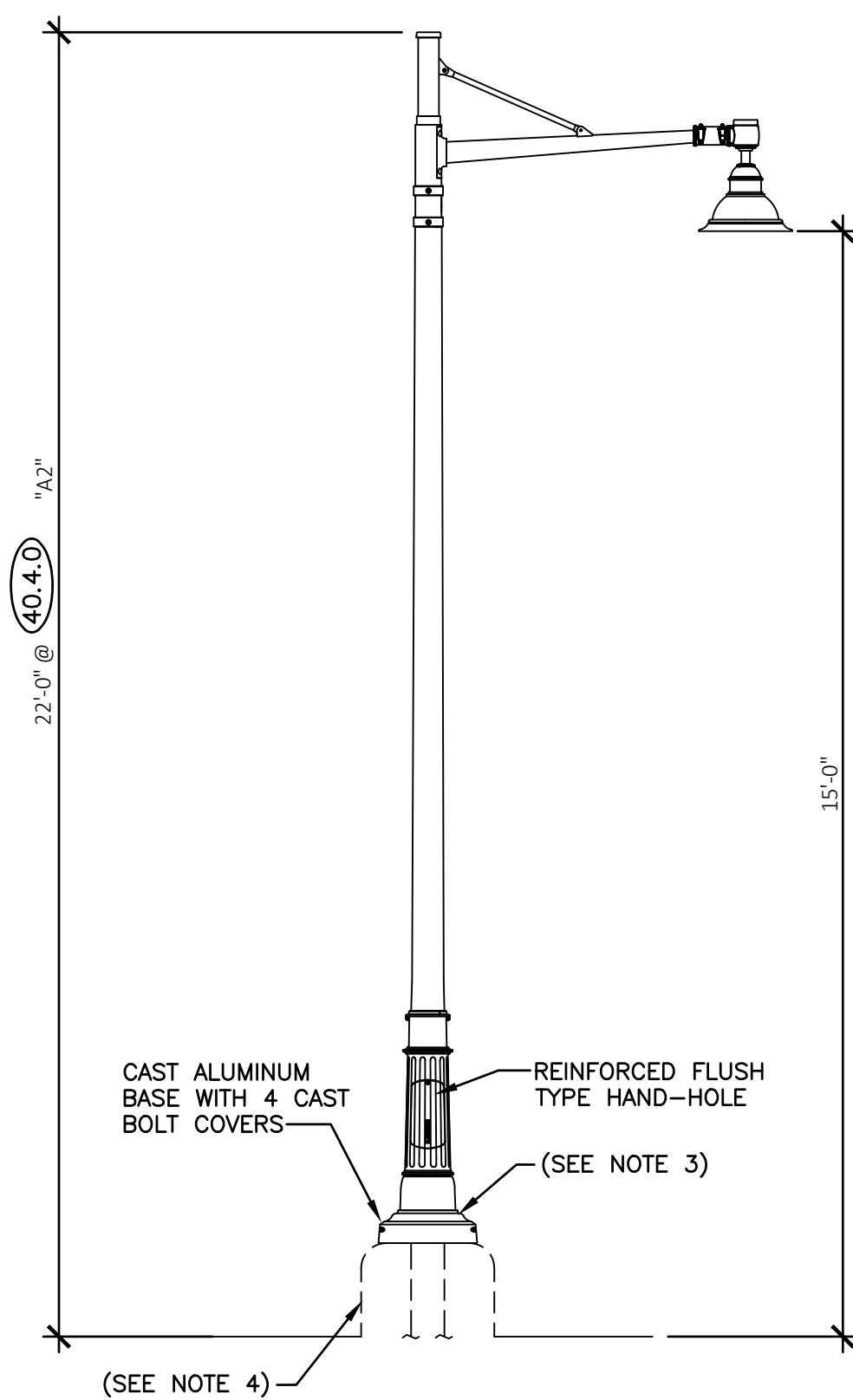
ADDENDUM NO. 4



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Providence, RI 02903
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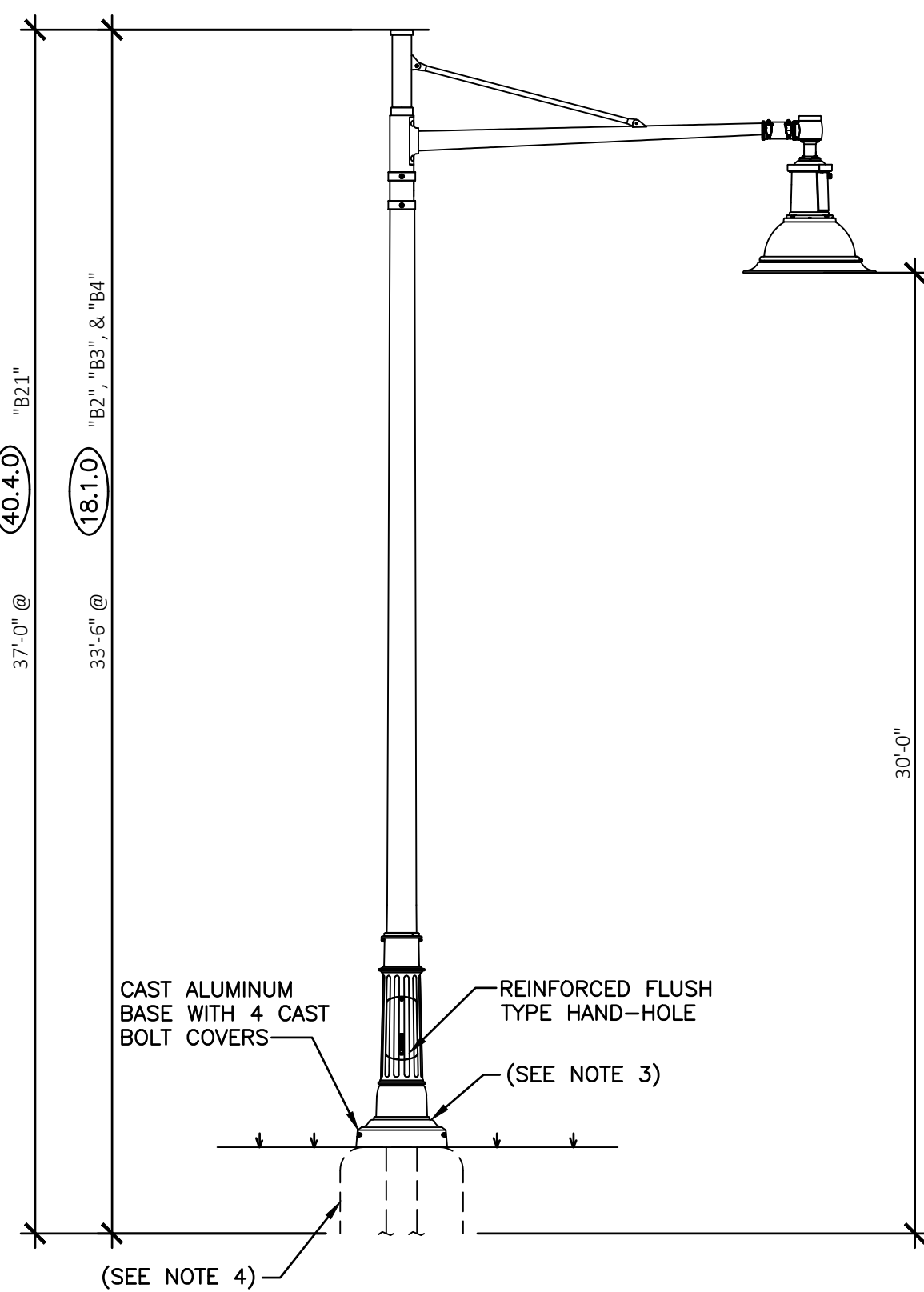
REVISIONS		
NO.	DATE	BY
1	5/1/20	CEC

RHODE ISLAND DEPARTMENT OF TRANSPORTATION	
BRIDGE GROUP 49 - HENDERSON RECONSTRUCTION OF HENDERSON BRIDGE NO. 600 PROVIDENCE/EAST PROVIDENCE, RHODE ISLAND	
LIGHTING PLAN NO. 6	
CHECKED BY	SC DATE 02/20/20 SCALE AS NOTED



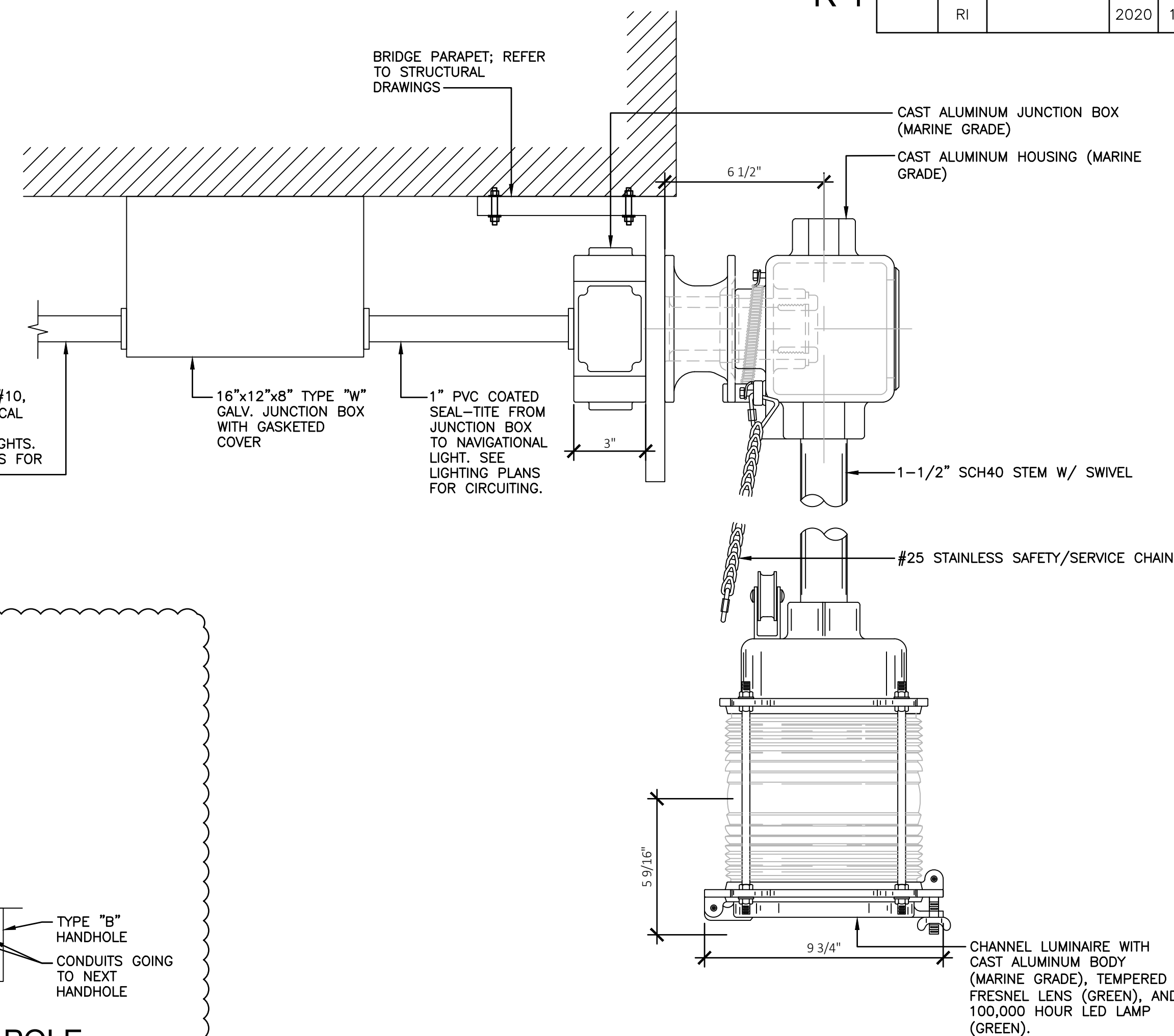
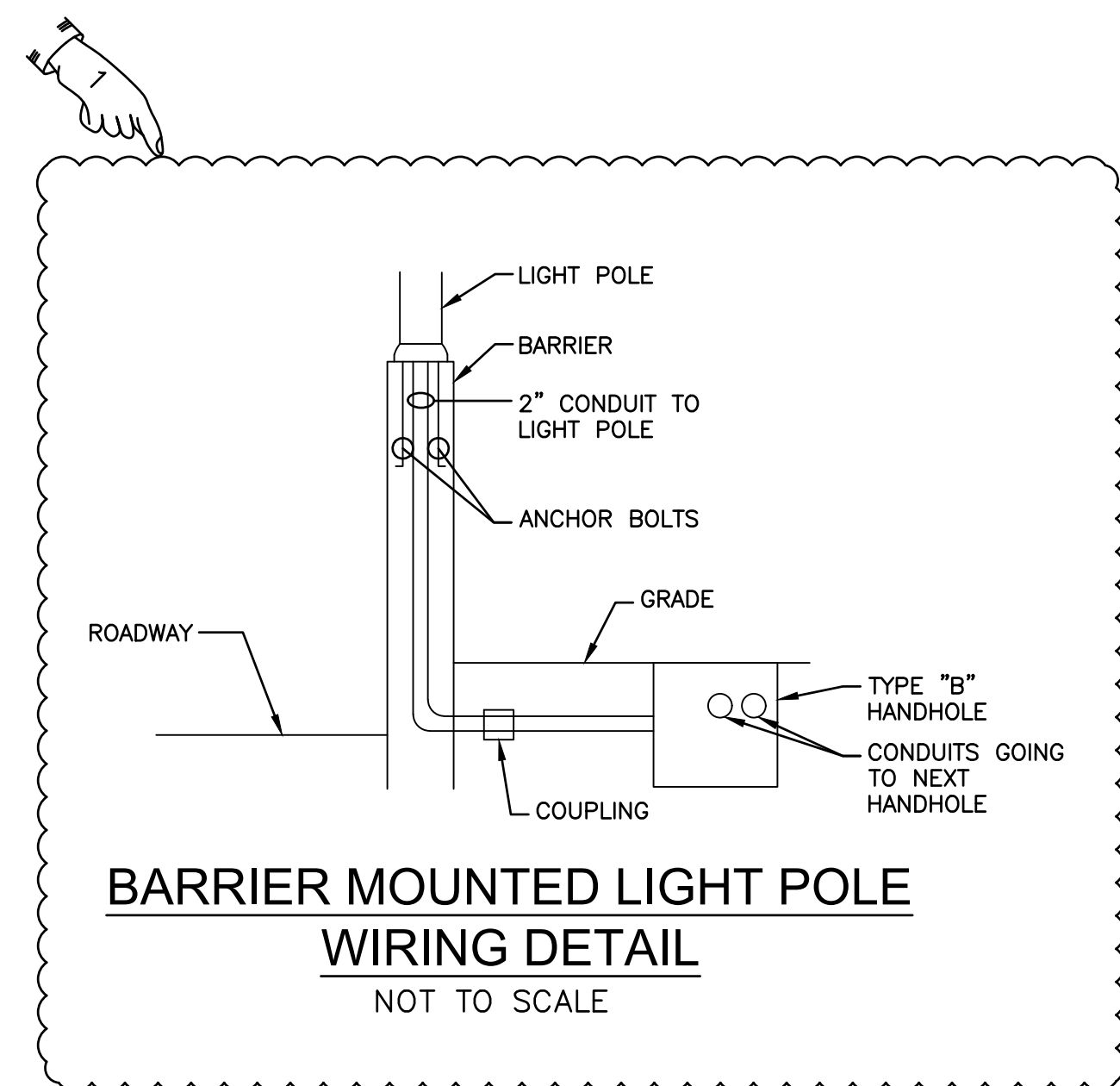
NOTES:
 1. SHALL BE IN ACCORDANCE WITH SECTION T.08 OF THE R.I. STANDARD SPECIFICATIONS.
 2. SEE CONTRACT DOCUMENTS FOR SPECIFIC POLE HEIGHTS AND CONFIGURATIONS.
 3. FOR BREAKAWAY COUPLING DETAIL, SEE STD. 18.3.4. AND 18.1.1.
 4. FOR FOUNDATION DETAILS, SEE STD. 40.4.0.

TYPE "A2" LIGHTING STANDARD (T01.9901) DETAIL
NOT TO SCALE

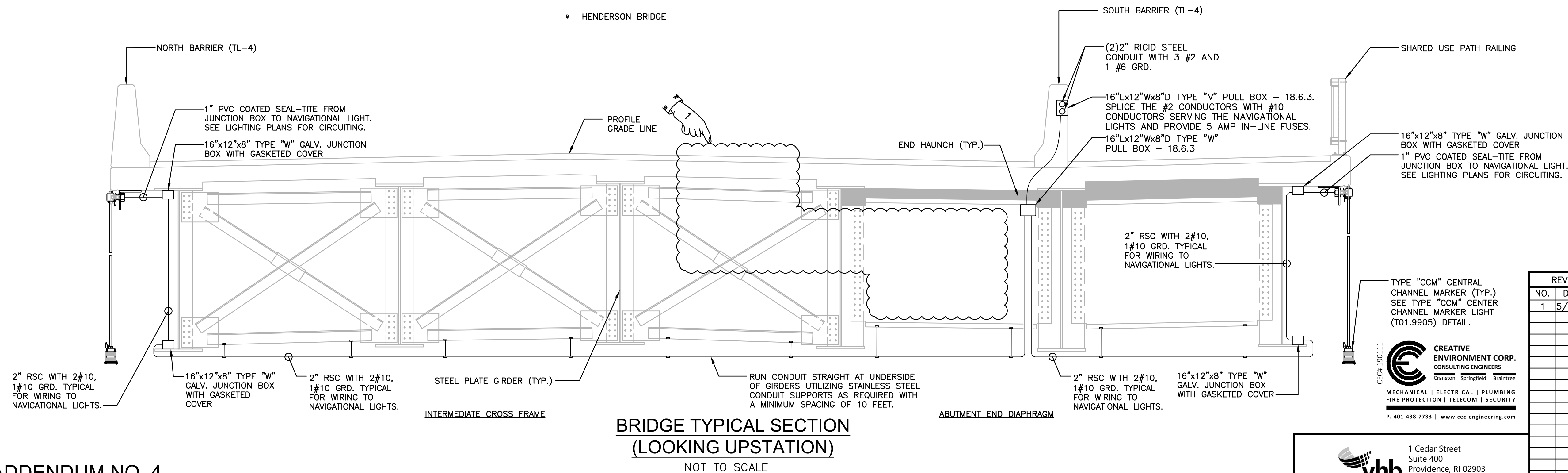


NOTES:
 1. SHALL BE IN ACCORDANCE WITH SECTION T.08 OF THE R.I. STANDARD SPECIFICATIONS.
 2. SEE CONTRACT DOCUMENTS FOR SPECIFIC POLE HEIGHTS AND CONFIGURATIONS.
 3. FOR BREAKAWAY COUPLING DETAIL, SEE STD. 18.3.4. AND 18.1.1.
 4. FOR FOUNDATION DETAILS, SEE STD. 18.1.0 AND 40.4.0.

TYPE "B2", "B21", "B3", "B4" LIGHTING STANDARD (T01.9902/T01.9903) DETAIL
NOT TO SCALE



TYPE "CCM" CENTER CHANNEL MARKER LIGHT (T01.9905) DETAIL
NOT TO SCALE



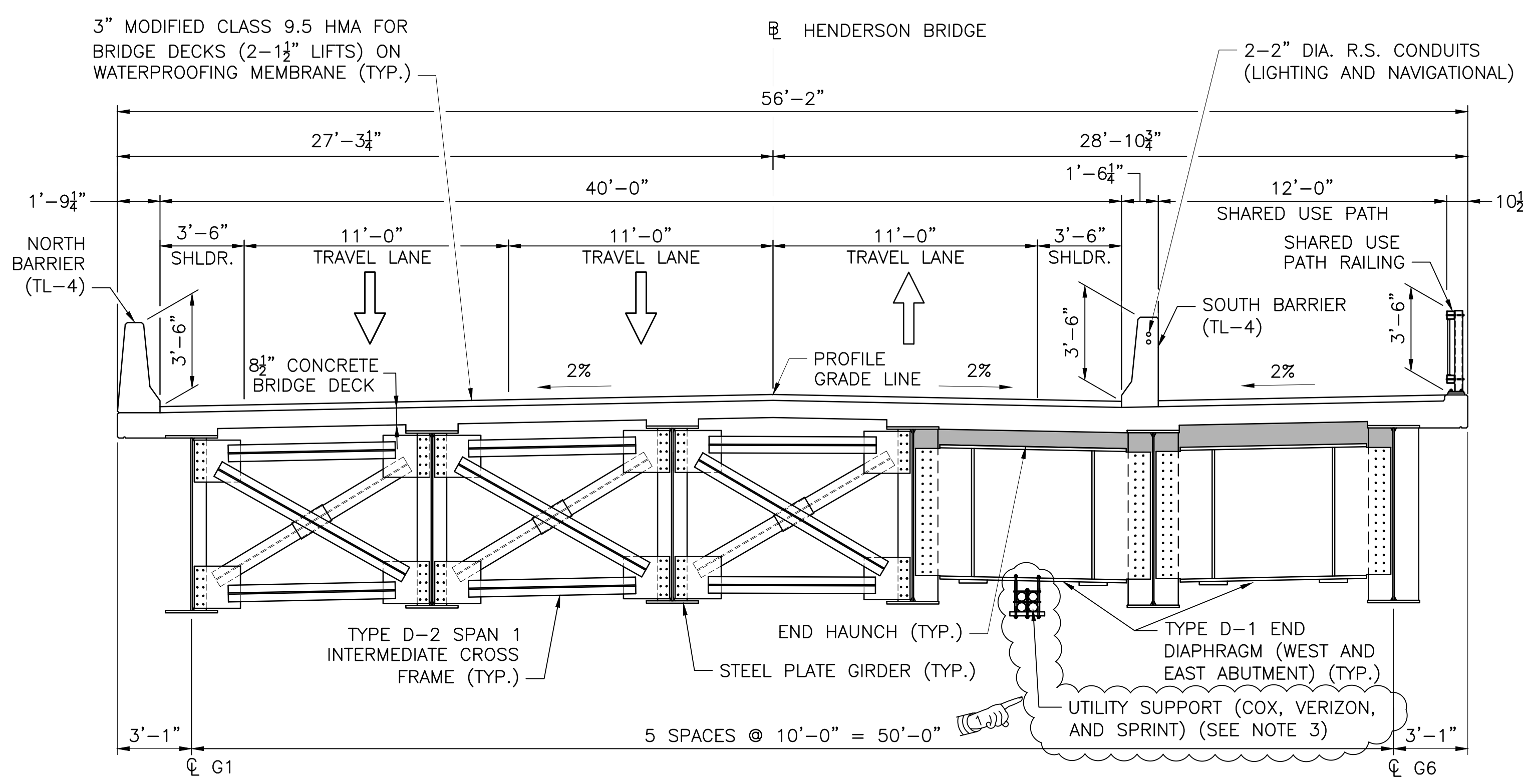
ADDENDUM NO. 4

REVISIONS		
NO.	DATE	BY
1	5/1/20	CEC

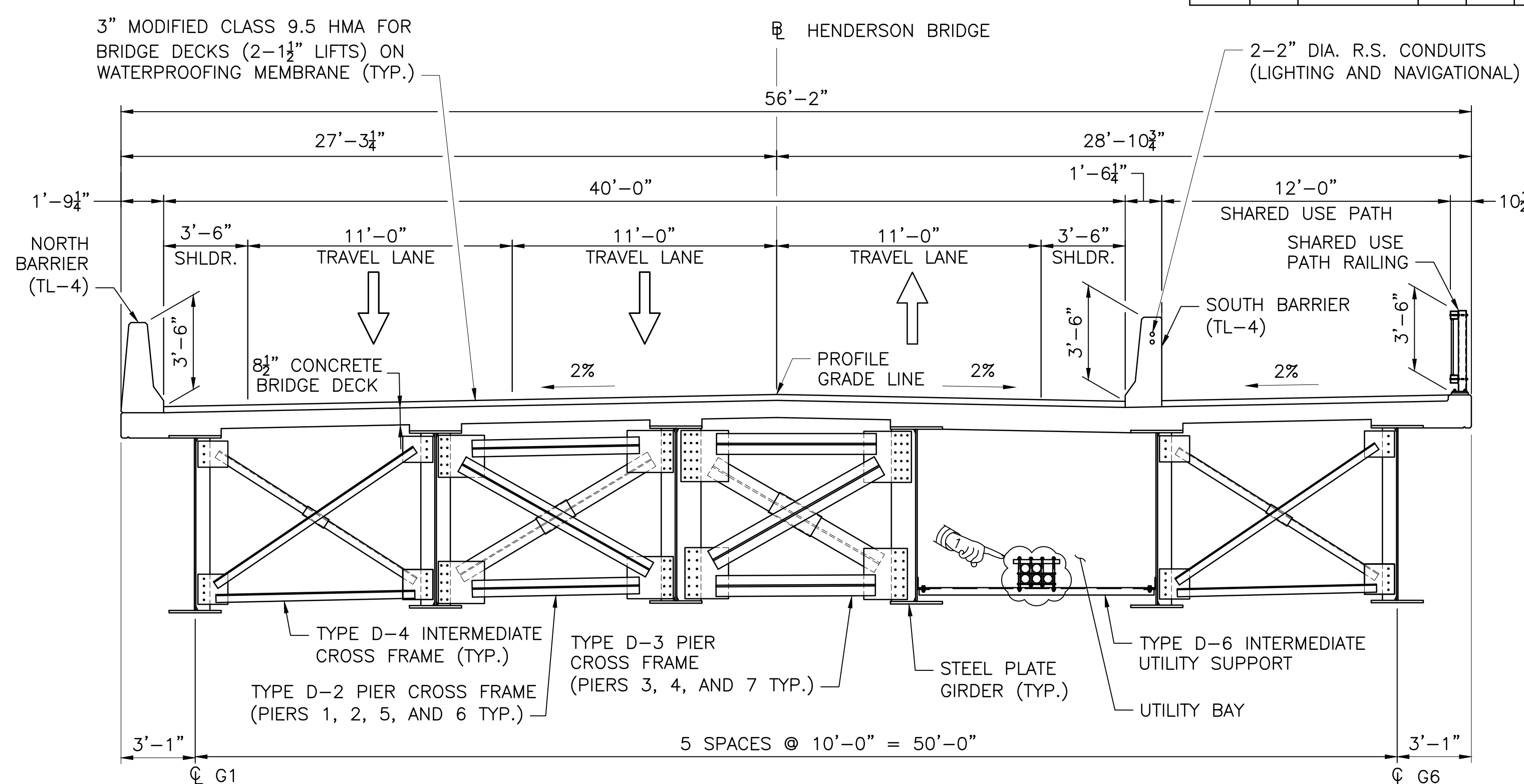
RHODE ISLAND
DEPARTMENT OF TRANSPORTATION
BRIDGE GROUP 49 - HENDERSON RECONSTRUCTION OF HENDERSON BRIDGE NO. 600
PROVIDENCE/EAST PROVIDENCE, RHODE ISLAND
LIGHTING DETAIL SHEET NO. 1

CHECKED BY SC DATE 02/20/20 SCALE AS NOTED

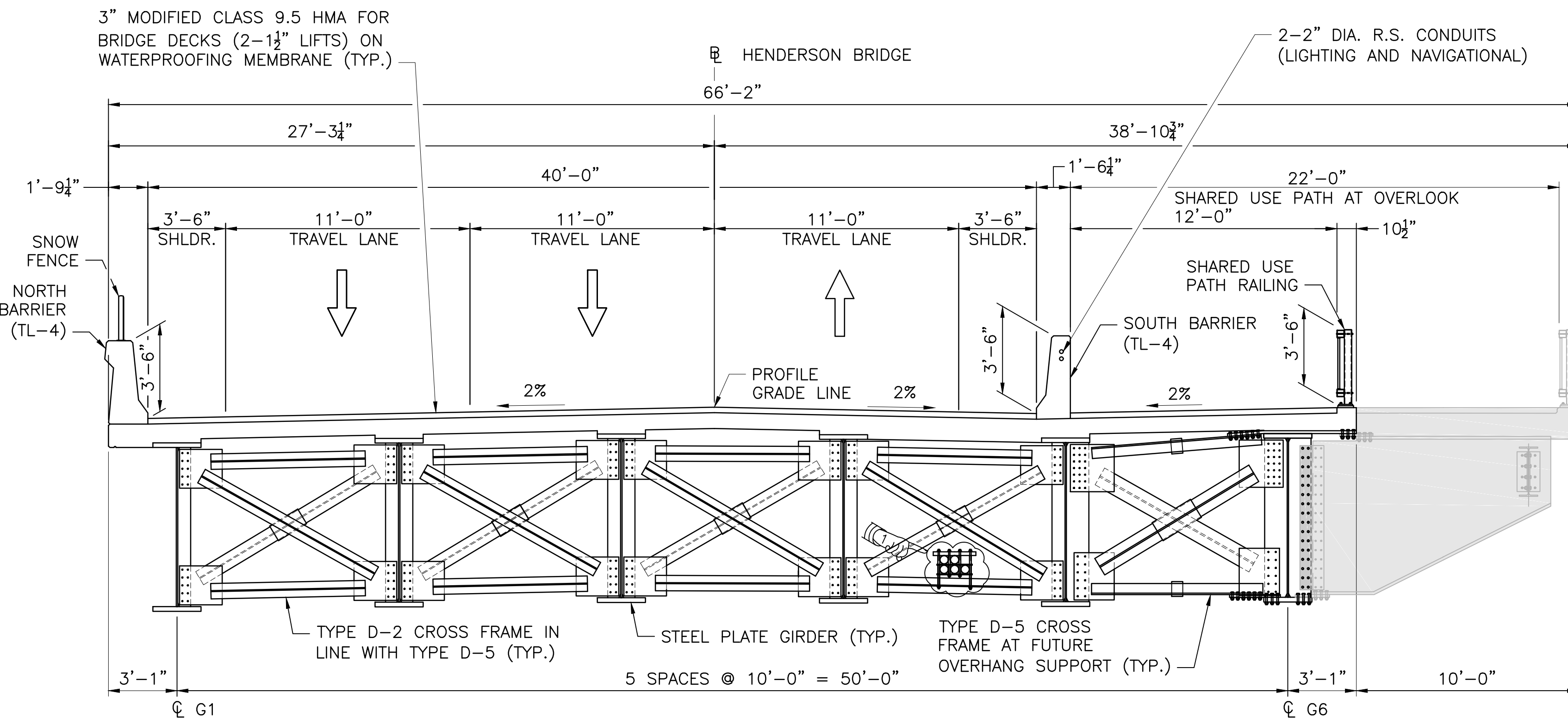




BRIDGE TYPICAL SECTION - SPAN 1
 (LOOKING UPSTATION)
 SCALE: 1/4"=1'-0"



BRIDGE TYPICAL SECTION - SPAN 2-8
 (LOOKING UPSTATION)
 SCALE: 1/4"=1'-0"



BRIDGE TYPICAL SECTION AT FUTURE SHARED USE PATH OVERLOOK
 (LOOKING UPSTATION)
 SCALE: 1/4"=1'-0"

LEGEND
 SHARED USE PATH OVERLOOK (N.I.C.)

- NOTES**
- FOR ELECTRICAL AND NAVIGATIONAL LIGHTING PLANS SEE VOLUME 1.
 - THE SHARED USE PATH SHALL RECEIVE THE SAME BRIDGE PAVEMENT AS THE ROADWAY.
 - UTILITY SUPPORT ATTACHED TO THE TYPE D-1 END DIAPHRAGM SHALL SUPPORT (5)-4"Ø CONDUITS (COX, VERIZON & SPRINT) AT THE WEST ABUTMENT AND SUPPORT (4)-4"Ø CONDUITS (COX & VERIZON) AT THE EAST ABUTMENT.

REVISIONS		
NO.	DATE	BY
1	5/1/20	VHB

RHODE ISLAND
DEPARTMENT OF TRANSPORTATION

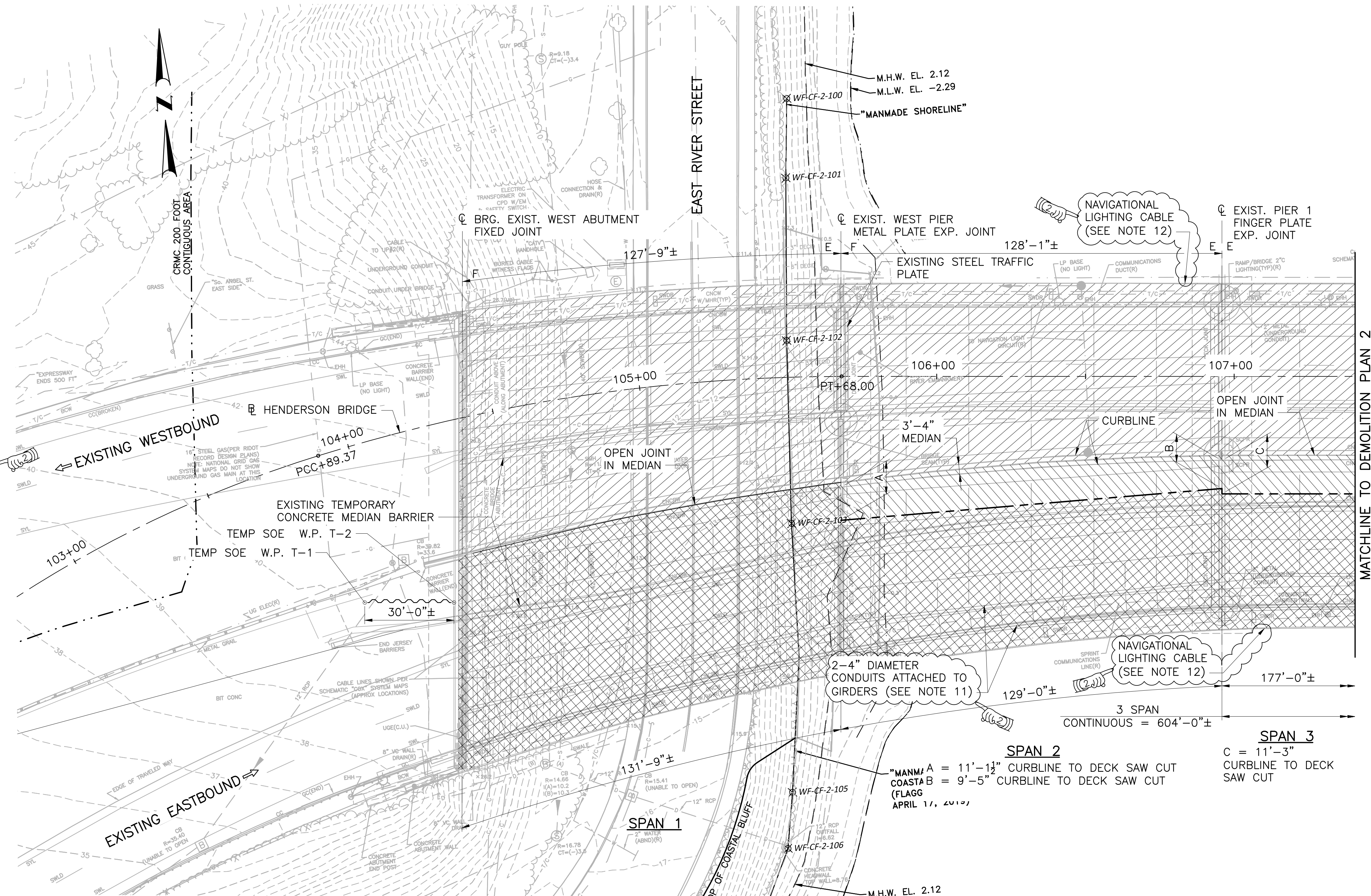
BRIDGE GROUP 49 - HENDERSON
RECONSTRUCTION OF
HENDERSON BRIDGE NO. 600
 PROVIDENCE/EAST PROVIDENCE, RHODE ISLAND

TYPICAL SECTIONS

CHECKED BY _____ DATE _____ SCALE _____

DEMOLITION NOTES

1. WHERE EXISTING FOUNDATION IS NOT ENTIRELY REMOVED, DEMOLITION SHALL BE LIMITED TO TWO FEET BELOW EXISTING GROUND UNLESS NOTED OTHERWISE.
2. DECK CONCRETE REMOVAL LIMITS SHALL BE DELINEATED BY A 1" DEEP SAW CUT PRIOR TO REMOVING CONCRETE.
3. WALL AND FOUNDATION CONCRETE REMOVAL LIMITS SHALL BE DELINEATED BY A 6" DEEP SAW CUT PRIOR TO REMOVING CONCRETE.
4. THE CONTRACTOR IS HEREBY NOTIFIED THAT THE EXISTING PAINT SYSTEM MAY CONTAIN TOXIC SUBSTANCES SUCH AS LEAD OR CHROMIUM WHICH MAY BE CONSIDERED HAZARDOUS WASTE WHEN REMOVED.
5. ALL DEMOLITION MATERIALS SHALL BE LEGALLY DISPOSED.
6. PROTECTION OF PERSONS AND ENVIRONMENT DURING OPERATIONS OF REMOVING OR MODIFYING THE EXISTING STRUCTURE SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF SECTION 826 OF THE RHODE ISLAND STANDARD SPECIFICATIONS.
7. DEMOLITION OF EXISTING TEMPORARY BARRIER SHALL BE INCLUDED IN DEMOLITION OF THE EXISTING SUPERSTRUCTURE.
8. FOR EXISTING WESTBOUND AND EASTBOUND STEEL FRAMING PLANS, GIRDER SIZES AND GIRDER AND DIAPHRAGM DETAILS REFER TO RI CONTRACT CO_6658.
9. FOR EXISTING DECK PLANS, DECK DETAILS AND SIDEWALK AND BARRIER DETAILS REFER TO RI CONTRACT CO_6757.
10. TEMPORARY SOE AT EXISTING WEST AND EAST ABUTMENTS TO BE INSTALLED FOR PHASE 2 DEMOLITION AND CONSTRUCTION. SEE EARTH RETAINING SYSTEMS DETAILS AND NOTES. SEE VOLUME 1 PHASE III TEMPORARY TRAFFIC CONTROL PLAN 1 FOR LOCATION OF TEMPORARY MEDIAN BARRIER.
11. SPRINT, VERIZON AND COX UTILITIES LOCATED IN THE SOUTH GIRDER BAY OF THE EASTBOUND BRIDGE SHALL BE MAINTAINED ON THE EXISTING BRIDGE DURING THE CONSTRUCTION OF THE NEW BRIDGE IN PHASES 1 AND 2. THE UTILITIES MAINTAINED IN PHASES 1 AND 2 SHALL TRANSFER TO THE NEW BRIDGE PRIOR TO PHASE 5 DEMOLITION.
12. NAVIGATIONAL LIGHTING SHALL BE MAINTAINED THROUGHOUT THE DURATION OF CONSTRUCTION.



SUPERSTRUCTURE DEMOLITION PLAN
 SCALE: 1"=20'

- NOTES**
1. CARE MUST BE TAKEN DURING THE REMOVAL OF THE DESIGNATED PORTIONS OF THE STRUCTURE TO AVOID DAMAGING THE PORTIONS THAT ARE TO REMAIN IN PLACE. ANY DAMAGE CAUSED BY THE CONTRACTOR TO THE EXISTING STRUCTURE THAT IS DESIGNATED TO REMAIN IN PLACE SHALL BE REPAIRED BY THE CONTRACTOR AT HIS OWN EXPENSE TO THE SATISFACTION OF THE ENGINEER.
 2. DEMOLITION WITHIN 2'-0" OF CONCRETE TO REMAIN SHALL BE PERFORMED WITH 30 LB (MAX.) CHIPPING HAMMERS. CHIPPING HAMMERS TO REMOVE CONCRETE WITHIN 2 INCHES AROUND REINFORCING STEEL SHALL NOT BE HEAVIER THAN 15-POUND CLASS. TOOLS SHALL NOT CONTACT REINFORCING STEEL TO REMAIN.

- LEGEND**
- REMOVE AND DISPOSE PHASE 1
 - REMOVE AND DISPOSE PHASE 2
 - REMOVE AND DISPOSE PHASE 5
 - DECK SAW CUT
 - F - FIXED BEARING
 - E - EXPANSION BEARING

REVISIONS		
NO.	DATE	BY
1	3/24/20	VHB
2	5/1/20	VHB

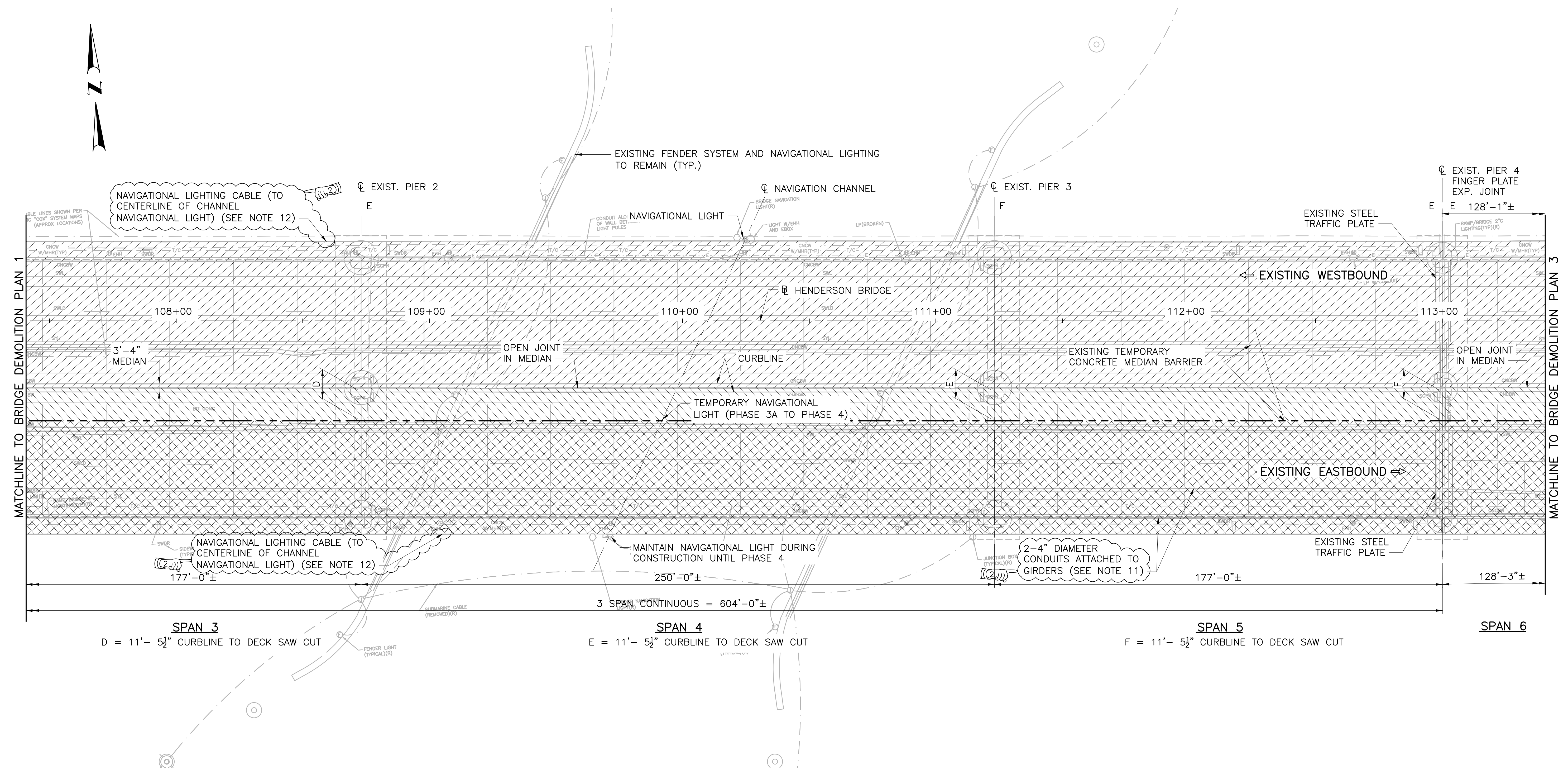
RHODE ISLAND
DEPARTMENT OF TRANSPORTATION

BRIDGE GROUP 49 - HENDERSON
RECONSTRUCTION OF
HENDERSON BRIDGE NO. 600
 PROVIDENCE/EAST PROVIDENCE, RHODE ISLAND

DEMOLITION PLAN 1

CHECKED BY _____ DATE _____ SCALE _____

1 Cedar Street
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 401.272.8100



SUPERSTRUCTURE DEMOLITION PLAN
SCALE: 1"=20'

- NOTES**
- CARE MUST BE TAKEN DURING THE REMOVAL OF THE DESIGNATED PORTIONS OF THE STRUCTURE TO AVOID DAMAGING THE PORTIONS THAT ARE TO REMAIN IN PLACE. ANY DAMAGE CAUSED BY THE CONTRACTOR TO THE EXISTING STRUCTURE THAT IS DESIGNATED TO REMAIN IN PLACE SHALL BE REPAIRED BY THE CONTRACTOR AT HIS OWN EXPENSE TO THE SATISFACTION OF THE ENGINEER.
 - DEMOLITION WITHIN 2'-0" OF CONCRETE TO REMAIN SHALL BE PERFORMED WITH 30 LB (MAX.) CHIPPING HAMMERS. CHIPPING HAMMERS TO REMOVE CONCRETE WITHIN 2 INCHES AROUND REINFORCING STEEL SHALL NOT BE HEAVIER THAN 15-POUND CLASS. TOOLS SHALL NOT CONTACT REINFORCING STEEL TO REMAIN.

- DEMOLITION NOTES**
- FOR DEMOLITION NOTES SEE DEMOLITION PLAN 1.
 - FOR EXISTING WESTBOUND AND EASTBOUND STEEL FRAMING PLANS, GIRDER SIZES AND GIRDER AND DIAPHRAGM DETAILS REFER TO RI CONTRACT CO_6658.
 - FOR EXISTING DECK PLANS, DECK DETAILS AND SIDEWALK AND BARRIER DETAILS REFER TO RI CONTRACT CO_6757.
 - FOR NAVIGATIONAL LIGHTING SEE VOLUME 1.

LEGEND

- REMOVE AND DISPOSE PHASE 1
- REMOVE AND DISPOSE PHASE 2
- REMOVE AND DISPOSE PHASE 5
- - DECK SAW CUT
- F - FIXED BEARING
- E - EXPANSION BEARING

REVISIONS		
NO.	DATE	BY
1	3/24/20	VHB
2	5/1/20	VHB

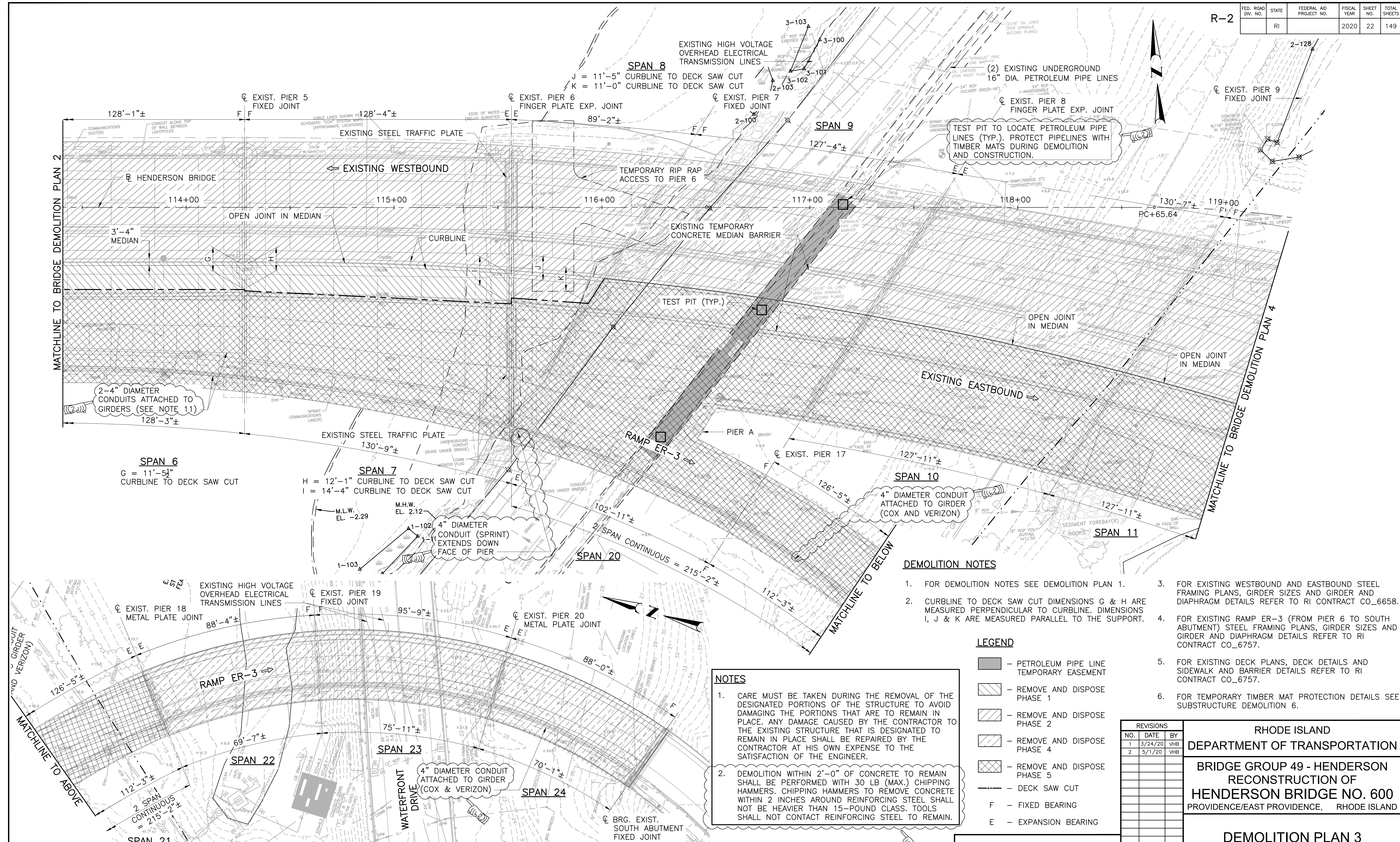
RHODE ISLAND
DEPARTMENT OF TRANSPORTATION

BRIDGE GROUP 49 - HENDERSON
RECONSTRUCTION OF
HENDERSON BRIDGE NO. 600
PROVIDENCE/EAST PROVIDENCE, RHODE ISLAND

DEMOLITION PLAN 2

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1 Cedar Street
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Providence, RI 02903
401.272.8100



DEMOLITION NOTES

- FOR DEMOLITION NOTES SEE DEMOLITION PLAN 1.
- CURLINE TO DECK SAW CUT DIMENSIONS G & H ARE MEASURED PERPENDICULAR TO CURLINE. DIMENSIONS I, J & K ARE MEASURED PARALLEL TO THE SUPPORT.
- FOR EXISTING WESTBOUND AND EASTBOUND STEEL FRAMING PLANS, GIRDER SIZES AND GIRDER AND DIAPHRAGM DETAILS REFER TO RI CONTRACT CO_6658.
- FOR EXISTING RAMP ER-3 (FROM PIER 6 TO SOUTH ABUTMENT) STEEL FRAMING PLANS, GIRDER SIZES AND GIRDER AND DIAPHRAGM DETAILS REFER TO RI CONTRACT CO_6757.
- FOR EXISTING DECK PLANS, DECK DETAILS AND SIDEWALK AND BARRIER DETAILS REFER TO RI CONTRACT CO_6757.
- FOR TEMPORARY TIMBER MAT PROTECTION DETAILS SEE SUBSTRUCTURE DEMOLITION 6.

LEGEND

- PETROLEUM PIPE LINE TEMPORARY EASEMENT
- REMOVE AND DISPOSE PHASE 1
- REMOVE AND DISPOSE PHASE 2
- REMOVE AND DISPOSE PHASE 4
- REMOVE AND DISPOSE PHASE 5
- DECK SAW CUT
- F - FIXED BEARING
- E - EXPANSION BEARING

NOTES

- CARE MUST BE TAKEN DURING THE REMOVAL OF THE DESIGNATED PORTIONS OF THE STRUCTURE TO AVOID DAMAGING THE PORTIONS THAT ARE TO REMAIN IN PLACE. ANY DAMAGE CAUSED BY THE CONTRACTOR TO THE EXISTING STRUCTURE THAT IS DESIGNATED TO REMAIN IN PLACE SHALL BE REPAIRED BY THE CONTRACTOR AT HIS OWN EXPENSE TO THE SATISFACTION OF THE ENGINEER.
- DEMOLITION WITHIN 2'-0" OF CONCRETE TO REMAIN SHALL BE PERFORMED WITH 30 LB (MAX.) CHIPPING HAMMERS. CHIPPING HAMMERS TO REMOVE CONCRETE WITHIN 2 INCHES AROUND REINFORCING STEEL SHALL NOT BE HEAVIER THAN 15-POUND CLASS. TOOLS SHALL NOT CONTACT REINFORCING STEEL TO REMAIN.

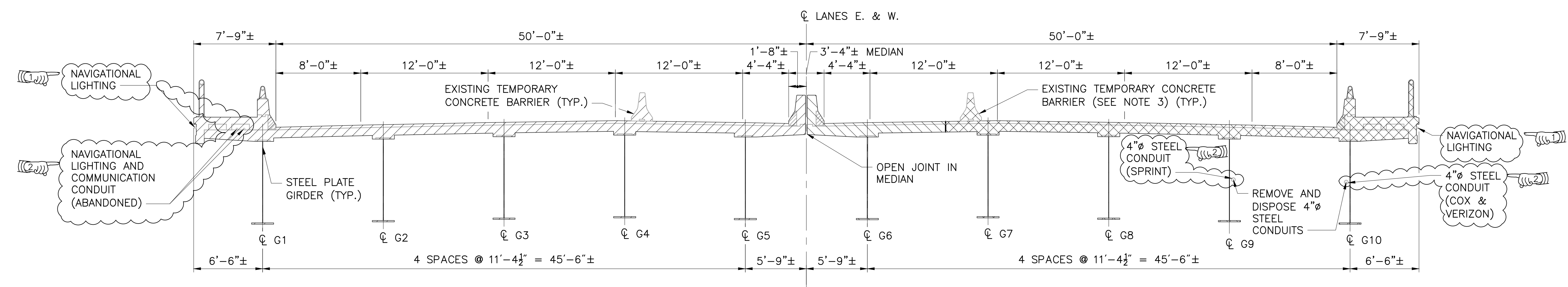
REVISIONS		
NO.	DATE	BY
1	3/24/20	VHB
2	5/1/20	VHB

**RHODE ISLAND
DEPARTMENT OF TRANSPORTATION**

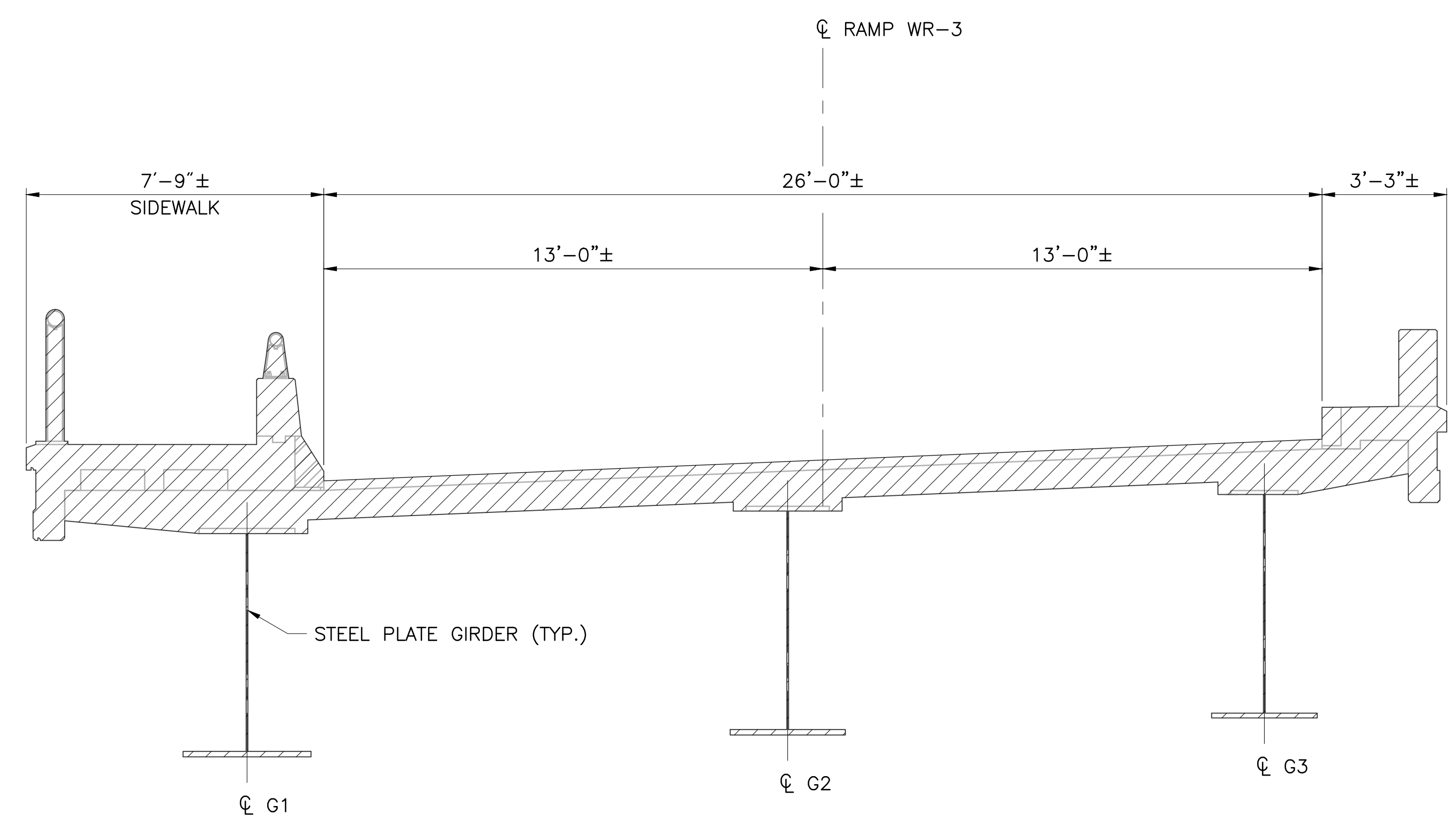
**BRIDGE GROUP 49 - HENDERSON
RECONSTRUCTION OF
HENDERSON BRIDGE NO. 600
PROVIDENCE/EAST PROVIDENCE, RHODE ISLAND**

DEMOLITION PLAN 3

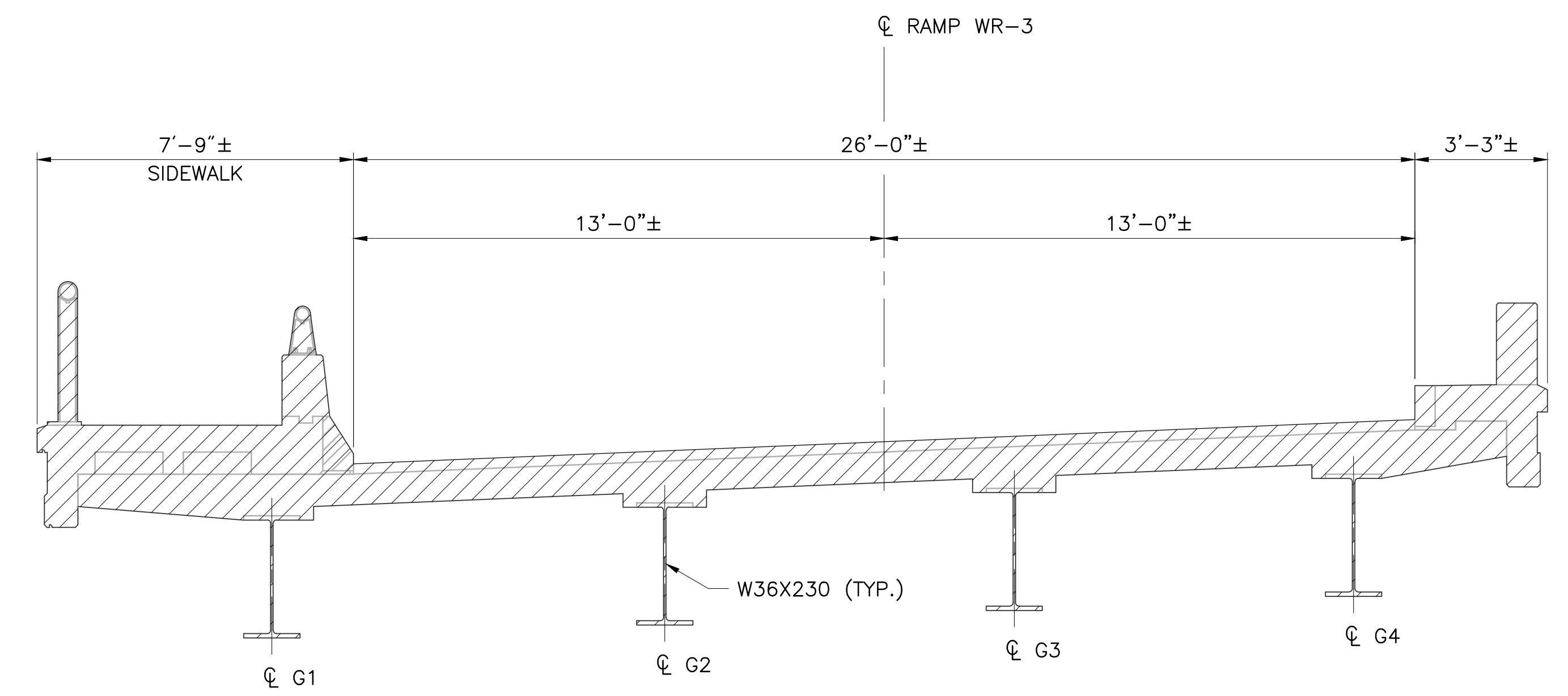
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TYPICAL DECK CROSS SECTION
SPAN 3 TO SPAN 6
 SCALE: 3/16"=1'-0"



RAMP WR-3 SPANS 17 & 18
 SCALE: 3/8"=1'-0"



RAMP WR-3 SPAN 19
 SCALE: 3/8"=1'-0"

- NOTES**
1. TYPICAL SECTION FOR SPANS 1, 2 AND 7-16 ARE NOT SHOWN BUT ARE SIMILAR TO THE TYPICAL SECTION IN SPANS 3-6. CURB TO CURB DIMENSIONS AND GIRDER SIZE AND SPACING VARY. REFER TO R.I. CONTRACT CO_6658 FOR INFORMATION NOT SHOWN.
 2. CROSS FRAMES NOT SHOWN. FOR EXISTING WESTBOUND AND EASTBOUND STEEL FRAMING PLANS, GIRDER SIZES AND GIRDER AND DIAPHRAGM DETAILS REFER TO R.I. CONTRACT CO_6658.

- LEGEND**
- REMOVE AND DISPOSE PHASE 1
 - REMOVE AND DISPOSE PHASE 2
 - REMOVE AND DISPOSE PHASE 5
 - DECK SAW CUT

REVISIONS		
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1	3/24/20	VHB
2	5/1/20	VHB

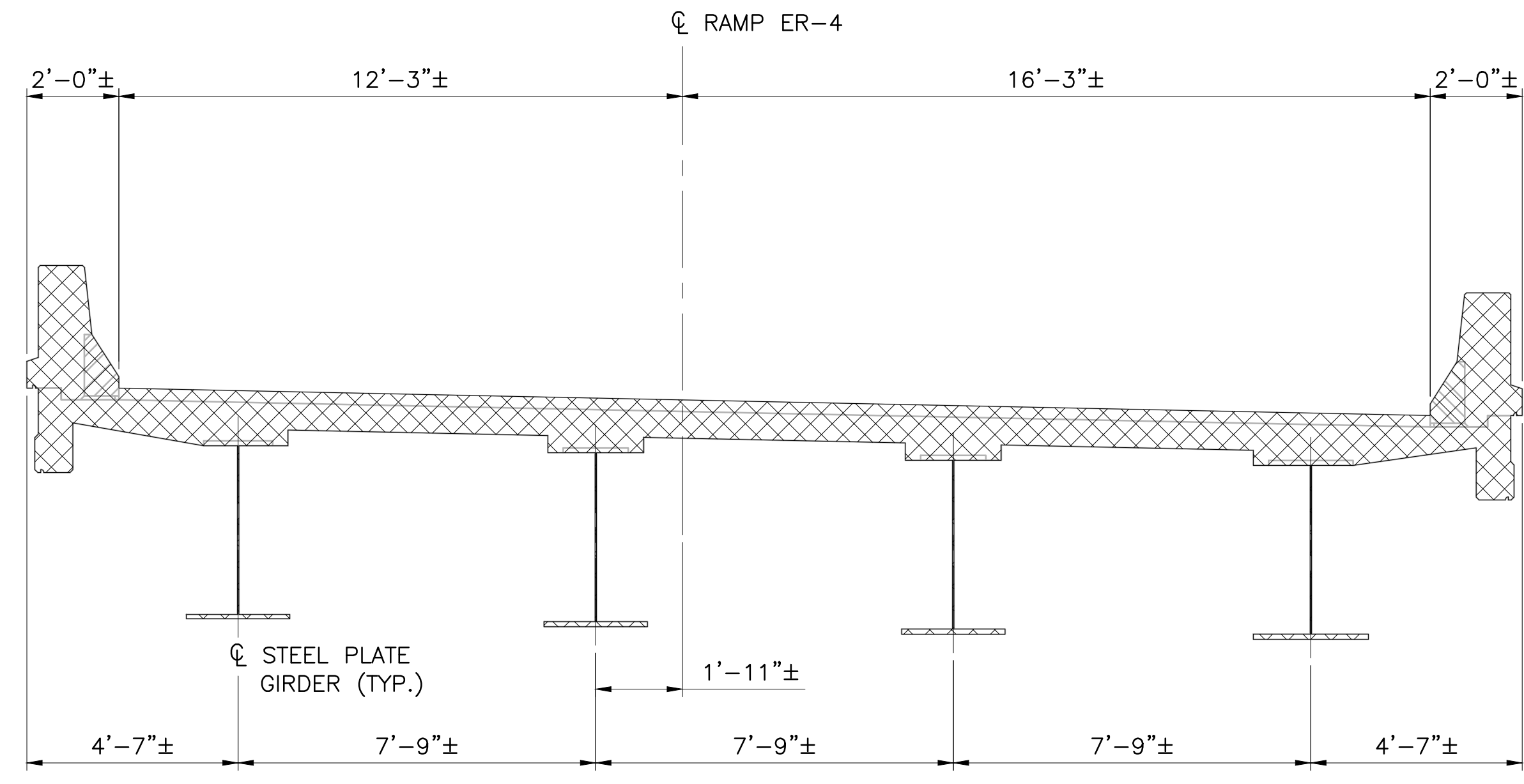
RHODE ISLAND
DEPARTMENT OF TRANSPORTATION

BRIDGE GROUP 49 - HENDERSON
RECONSTRUCTION OF
HENDERSON BRIDGE NO. 600
 PROVIDENCE/EAST PROVIDENCE, RHODE ISLAND

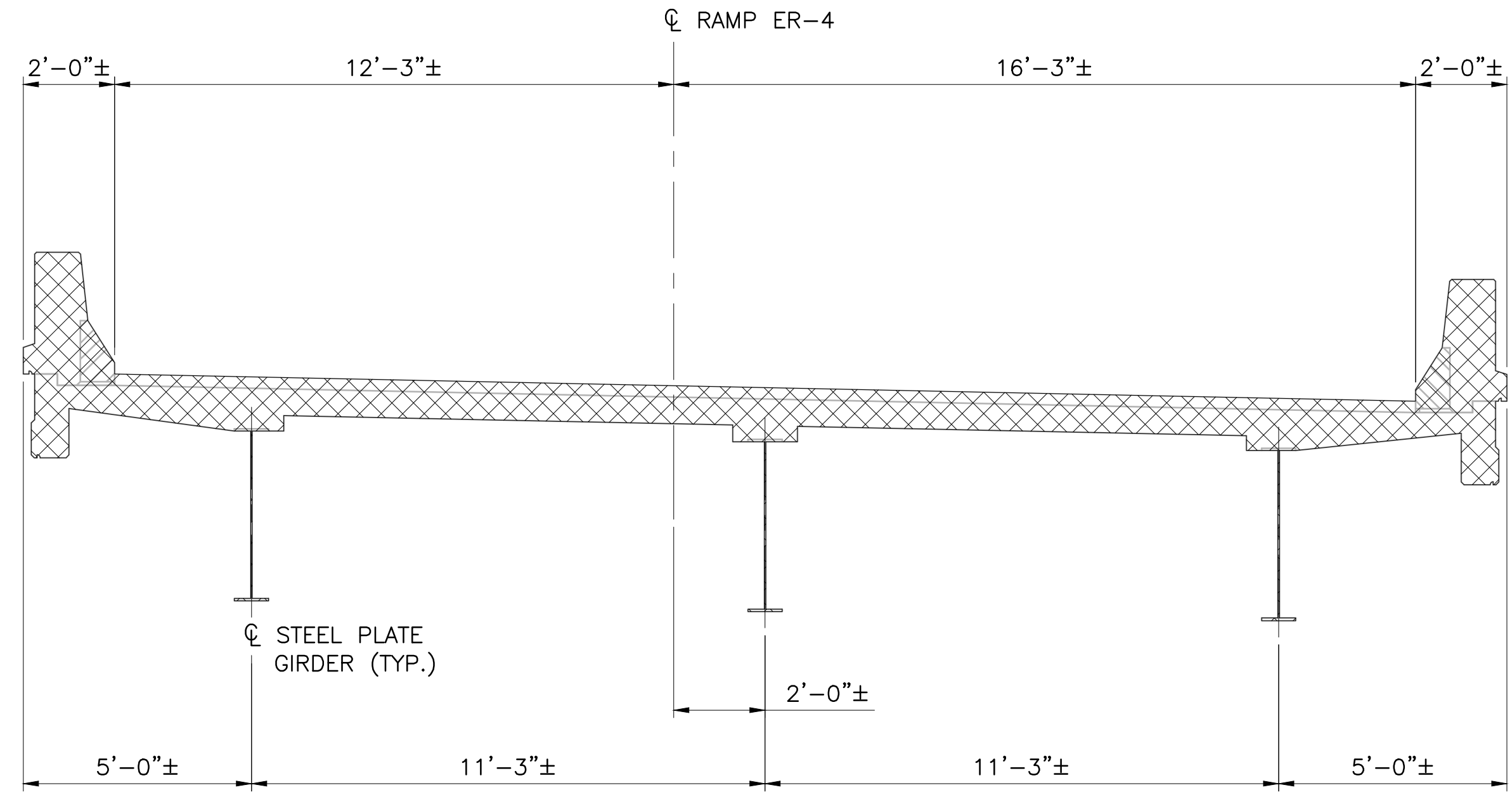
DEMOLITION SECTIONS 1

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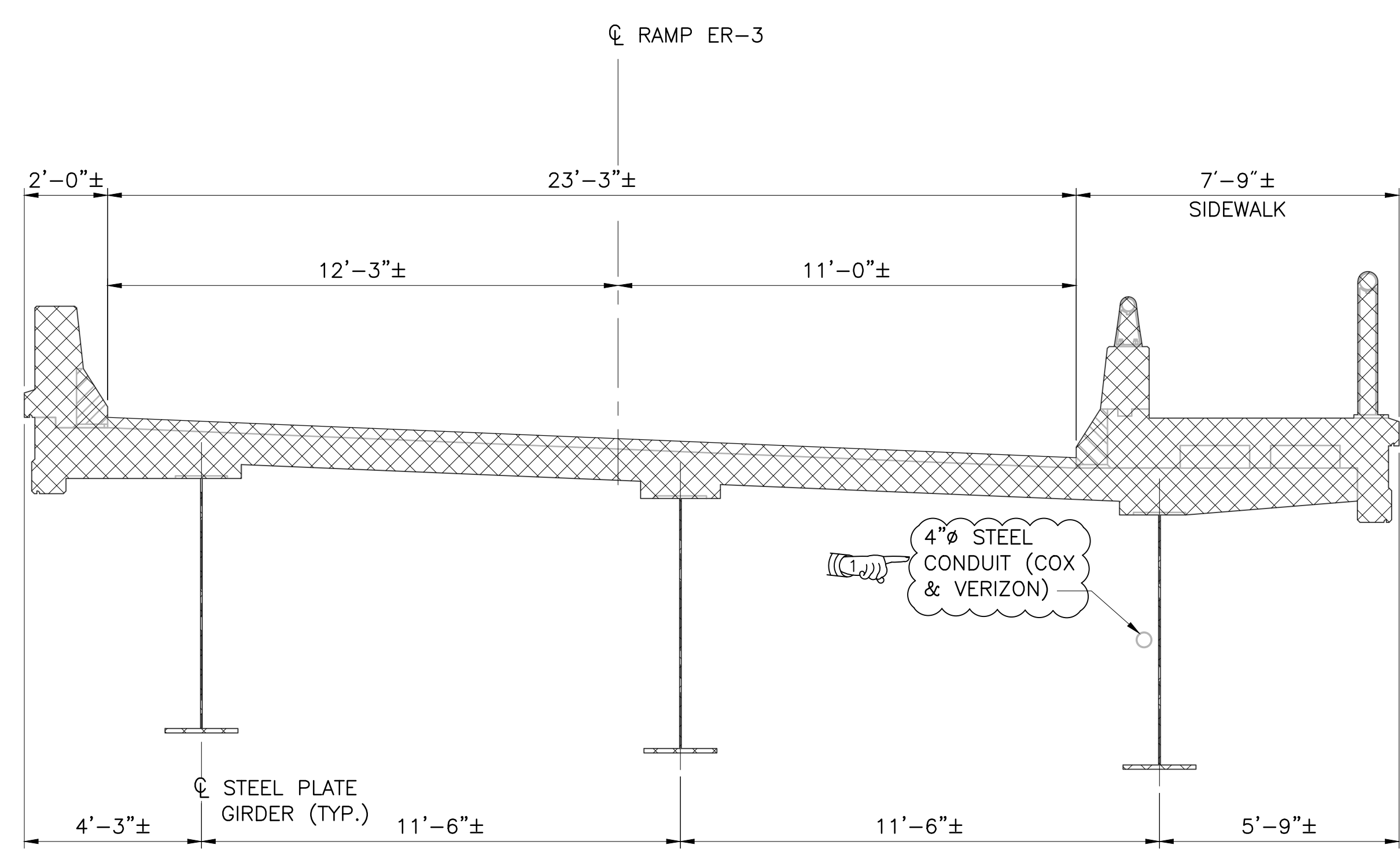
1 Cedar Street
 Suite 400
 Providence, RI 02903
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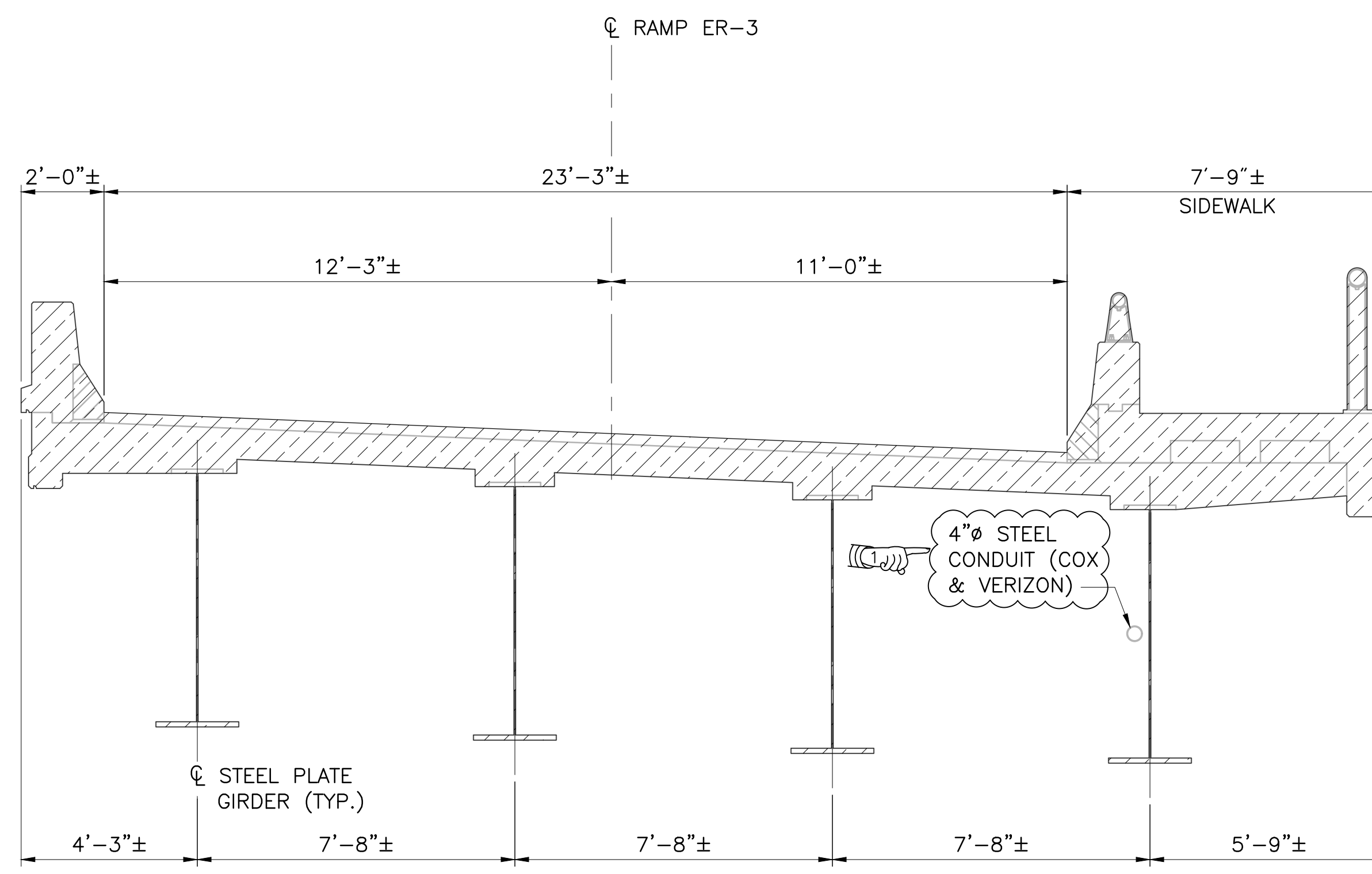
RAMP ER-4 SPAN 25
SCALE: 3/8"=1'-0"



RAMP ER-4 SPAN 26
SCALE: 3/8"=1'-0"

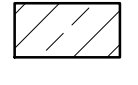
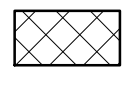



**RAMP ER-3
FROM EXISTING PIER 6 TO PIER 18**
SCALE: 3/8"=1'-0"

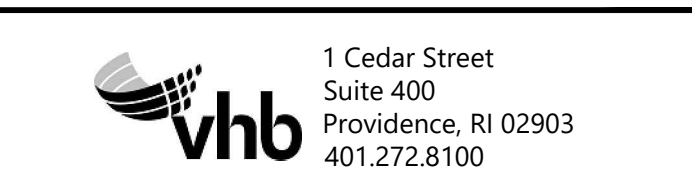


**RAMP ER-3
FROM EXISTING PIER 18 TO SOUTH ABUTMENT**
SCALE: 3/8"=1'-0"

LEGEND

-  - REMOVE AND DISPOSE PHASE 4
-  - REMOVE AND DISPOSE PHASE 5
-  - DECK SAW CUT

- NOTES**
- SEE DEMOLITION SECTIONS FOR NOTES.
 - FOR EXISTING RAMP ER-3 STEEL FRAMING PLANS, GIRDER SIZES AND GIRDER AND DIAPHRAGM DETAILS REFER TO R.I. CONTRACT CO_6757.

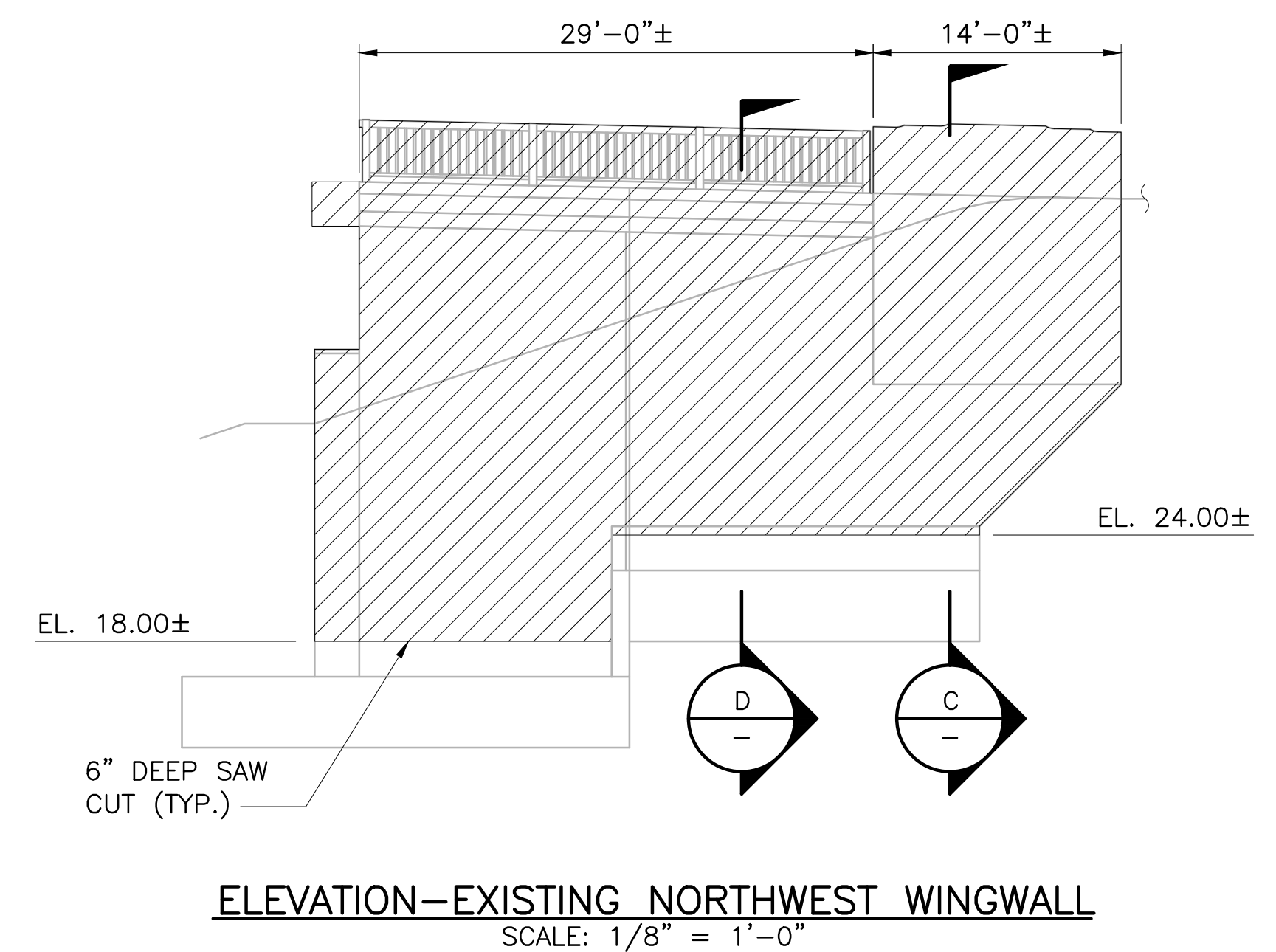
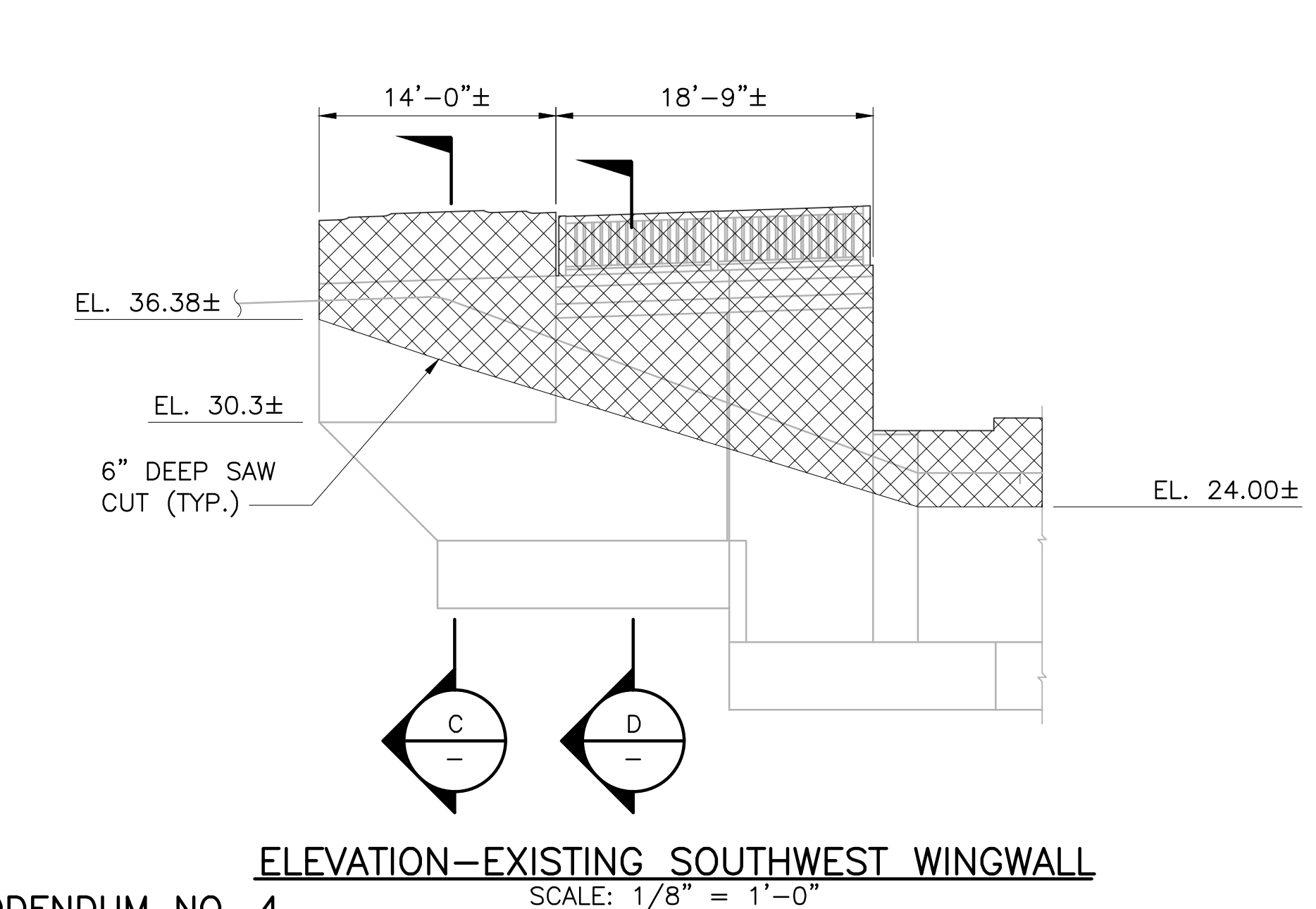
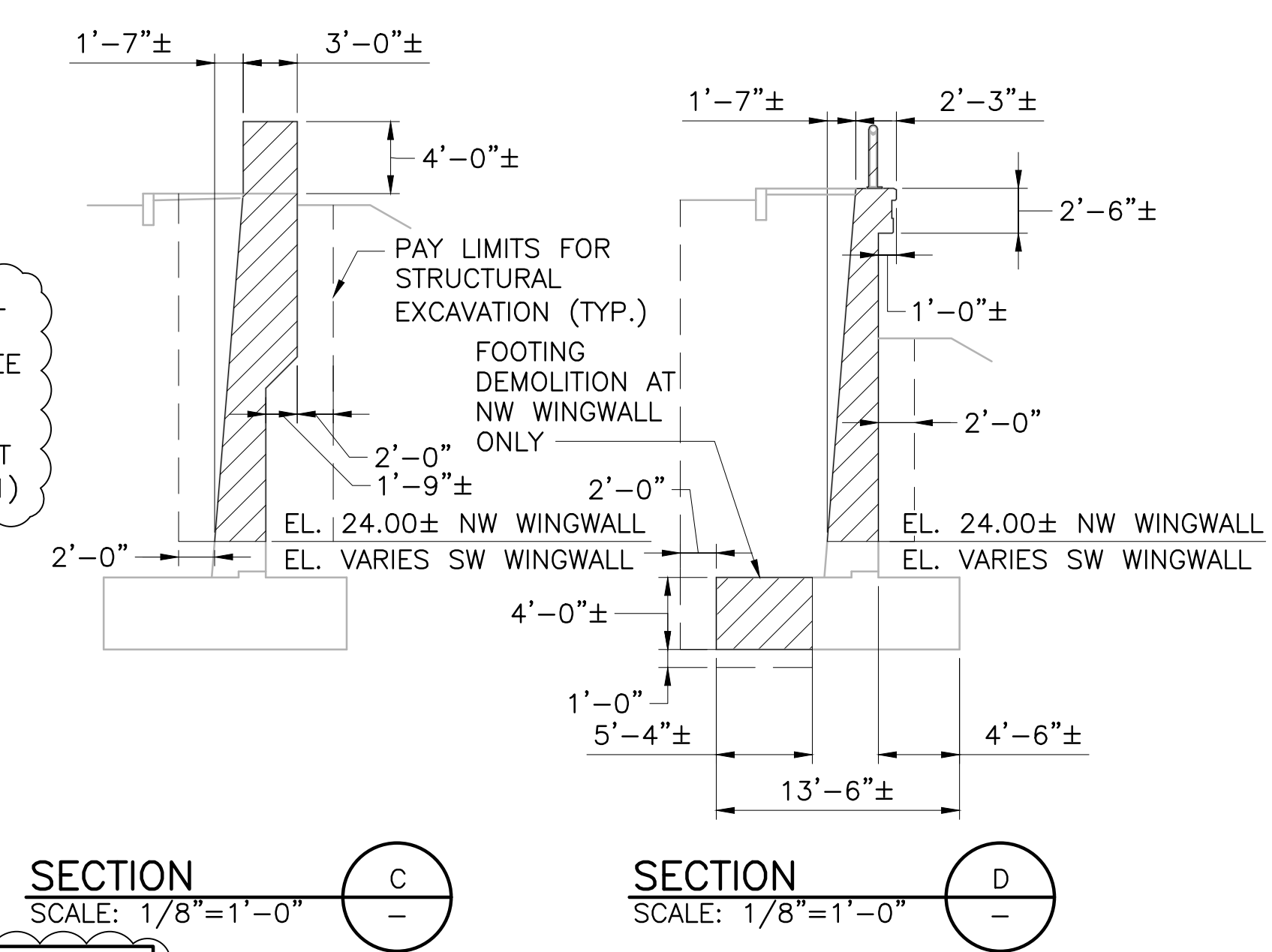
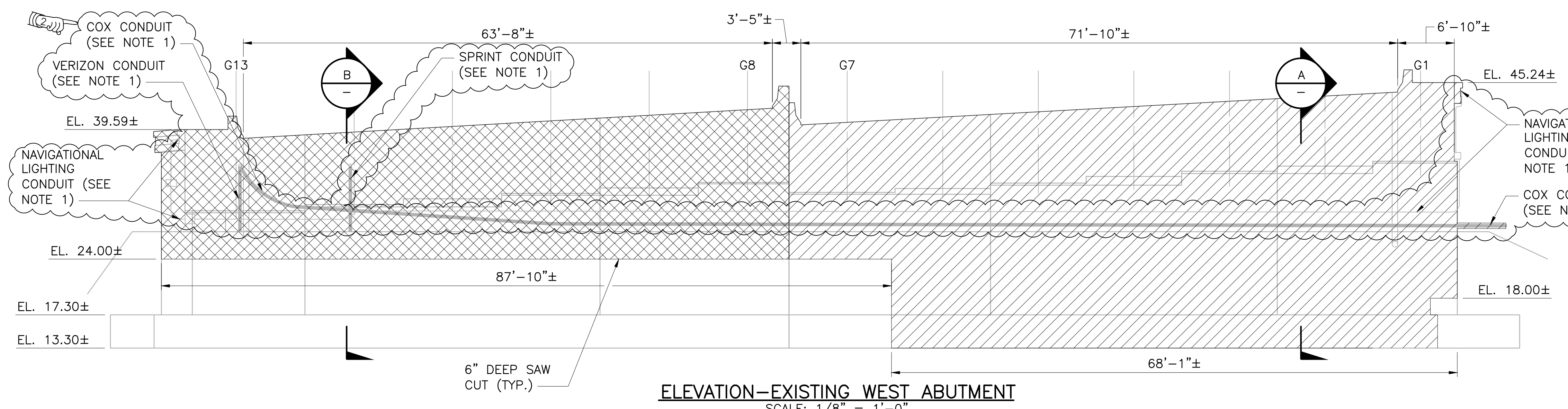
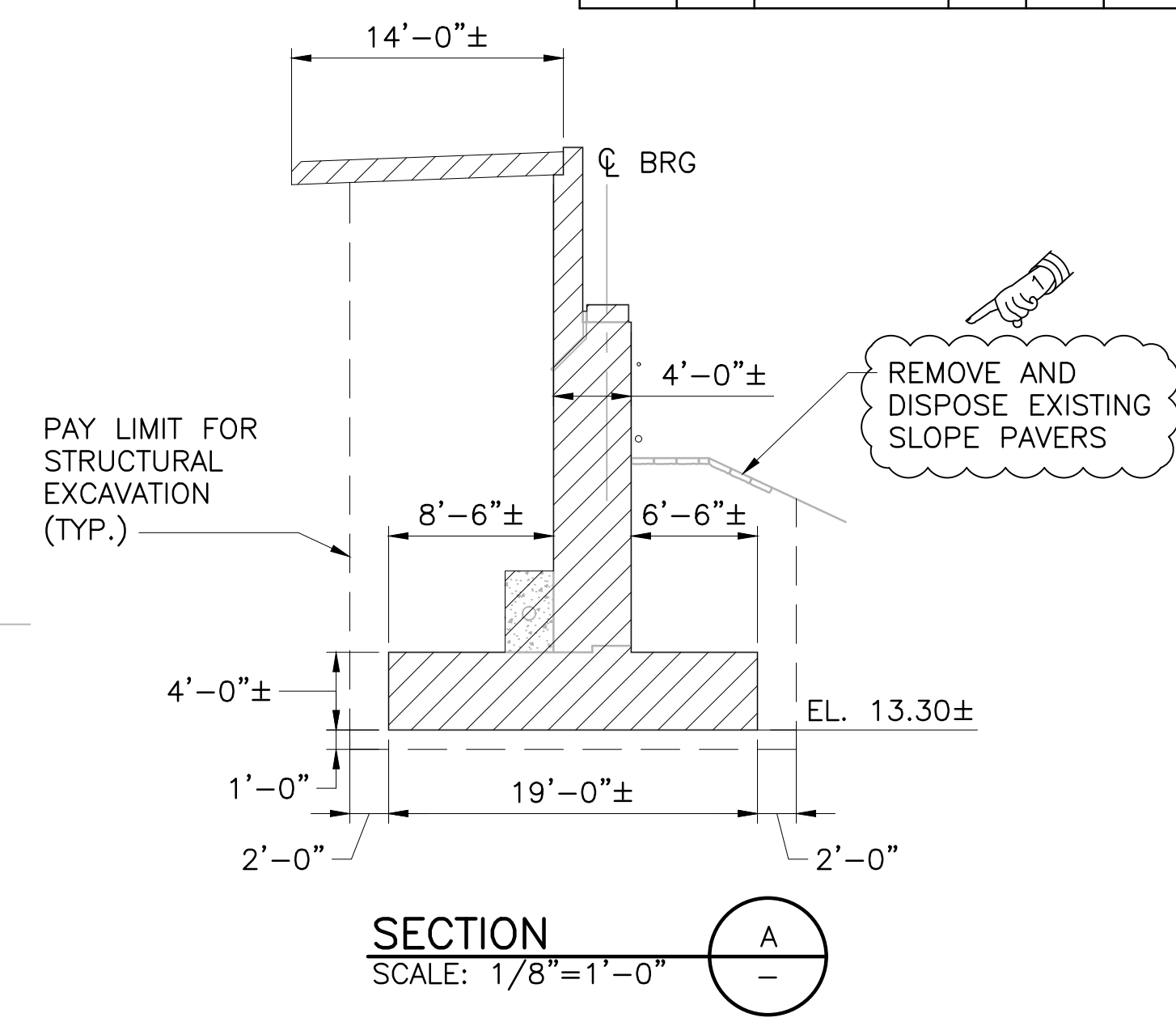
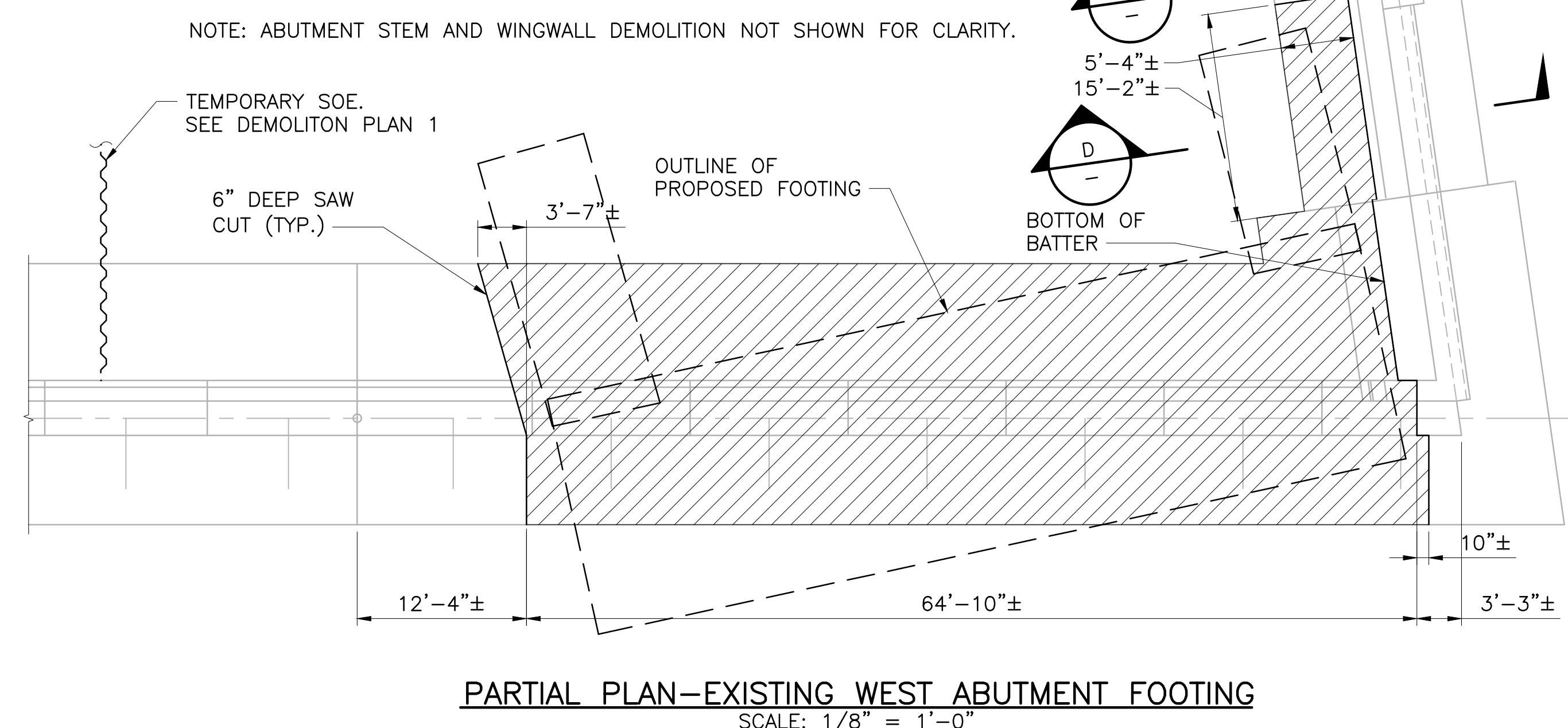
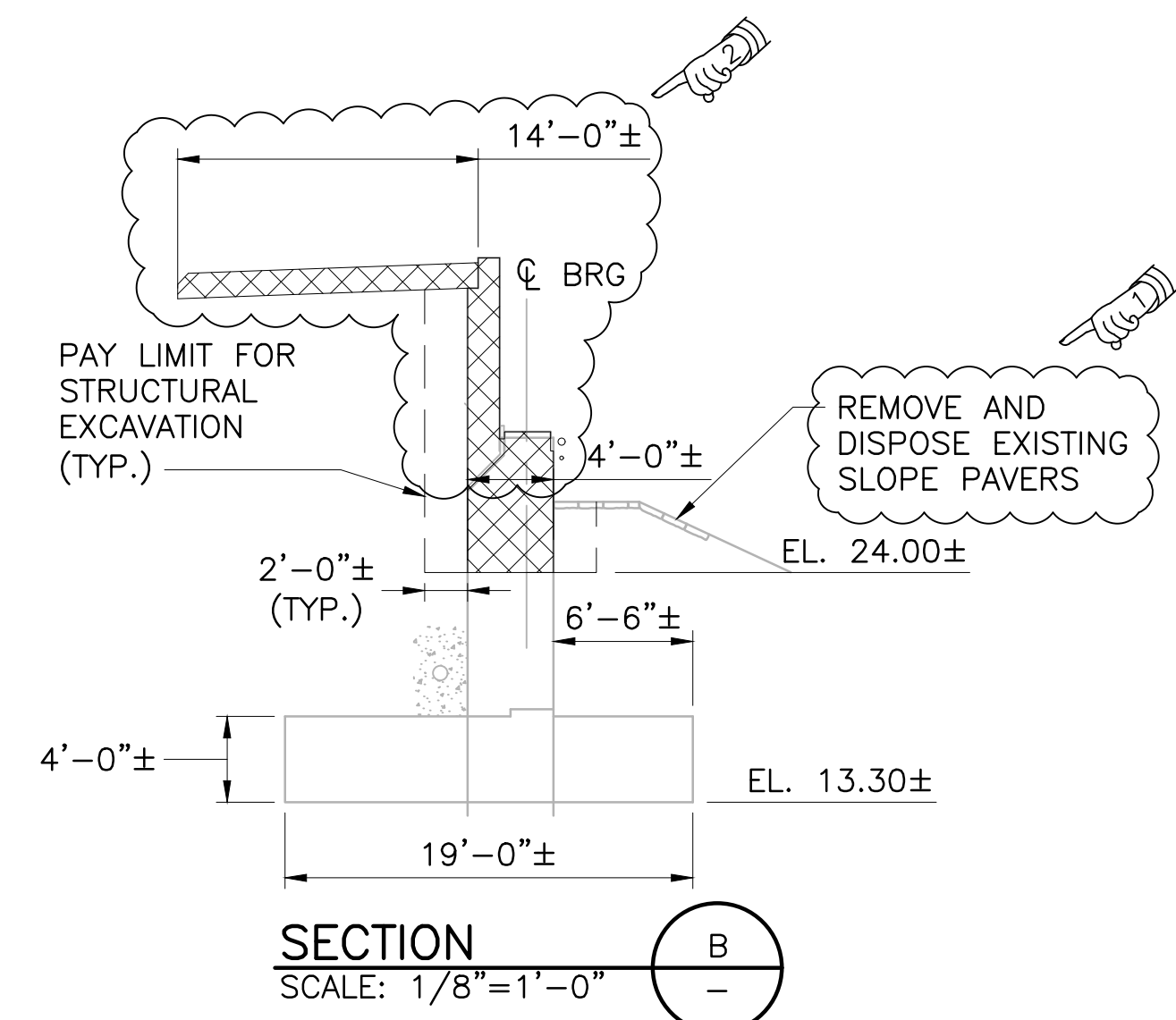


REVISIONS		
NO.	DATE	BY
1	5/1/20	VHB

RHODE ISLAND
DEPARTMENT OF TRANSPORTATION
BRIDGE GROUP 49 - HENDERSON
RECONSTRUCTION OF
HENDERSON BRIDGE NO. 600
PROVIDENCE/EAST PROVIDENCE, RHODE ISLAND

DEMOLITION SECTIONS 2

CHECKED BY _____ DATE _____ SCALE _____



- NOTES**
- CARE MUST BE TAKEN DURING THE REMOVAL OF THE DESIGNATED PORTIONS OF THE STRUCTURE TO AVOID DAMAGING THE PORTIONS THAT ARE TO REMAIN IN PLACE. ANY DAMAGE CAUSED BY THE CONTRACTOR TO THE EXISTING STRUCTURE THAT IS DESIGNATED TO REMAIN IN PLACE SHALL BE REPAIRED BY THE CONTRACTOR AT HIS OWN EXPENSE TO THE SATISFACTION OF THE ENGINEER.
 - DEMOLITION WITHIN 2'-0" OF CONCRETE TO REMAIN SHALL BE PERFORMED WITH 30 LB (MAX.) CHIPPING HAMMERS. CHIPPING HAMMERS TO REMOVE CONCRETE WITHIN 2 INCHES AROUND REINFORCING STEEL SHALL NOT BE HEAVIER THAN 15-POUND CLASS. TOOLS SHALL NOT CONTACT REINFORCING STEEL TO REMAIN.

- NOTES:**
- SPRINT, VERIZON AND COX CONDUITS ON BRIDGE AND NAVIGATIONAL LIGHTING AND BRIDGE LIGHTING SHALL BE MAINTAINED DURING CONSTRUCTION. SEE VOLUME 1 DRAINAGE AND UTILITY AND LIGHTING PLANS.
 - REINFORCING STEEL NOT SHOWN. REFER TO R.I. CONTRACT CO_6454 FOR EXISTING WEST ABUTMENT AND WINGWALL PLANS.
 - REFER TO DEMOLITION PLAN 1 FOR DEMOLITION NOTES.

LEGEND

- REMOVE AND DISPOSE PHASE 2
- REMOVE AND DISPOSE PHASE 5
- DECK SAW CUT

vhb
1 Cedar Street
Suite 400
Providence, RI 02903
401.272.8100

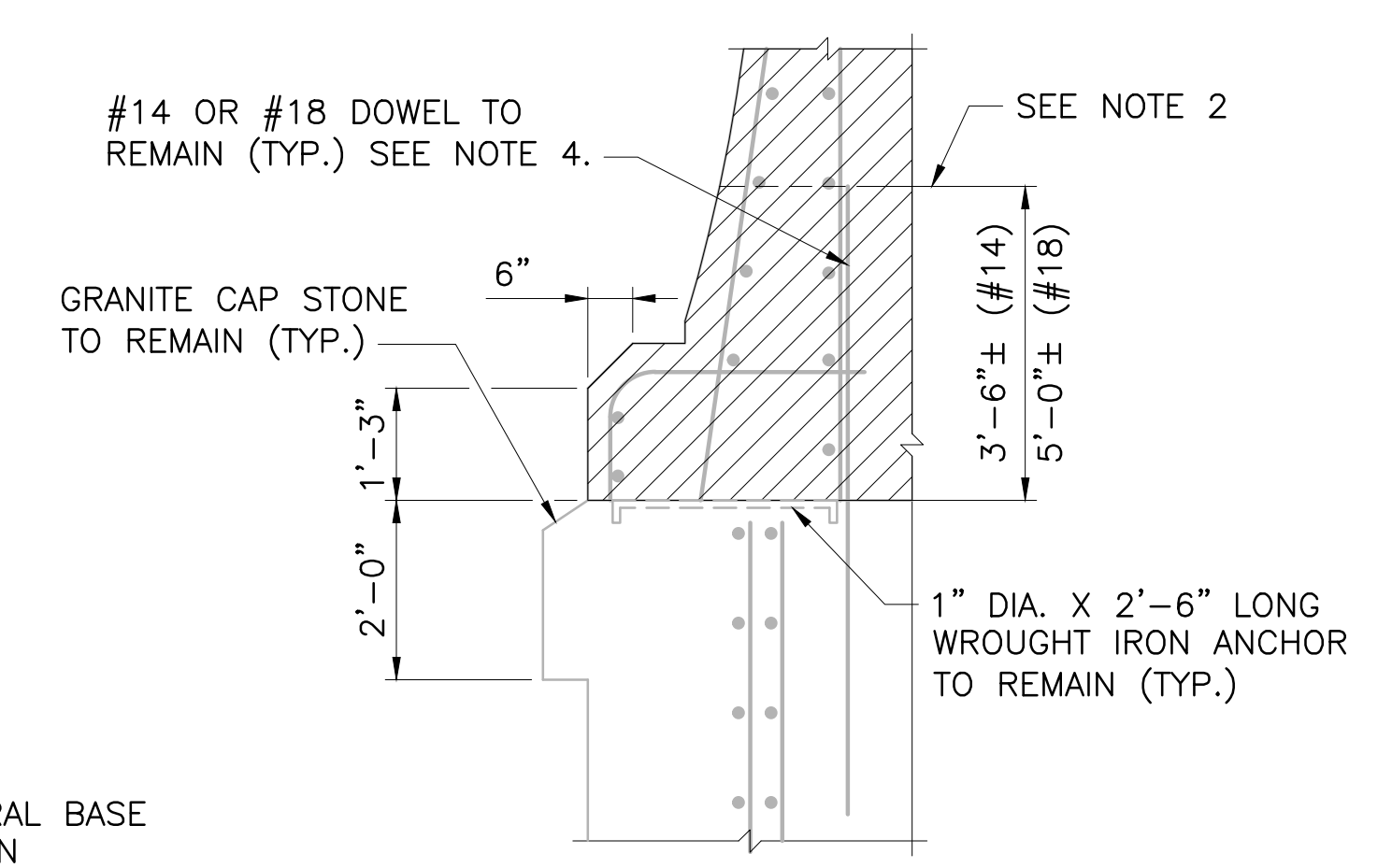
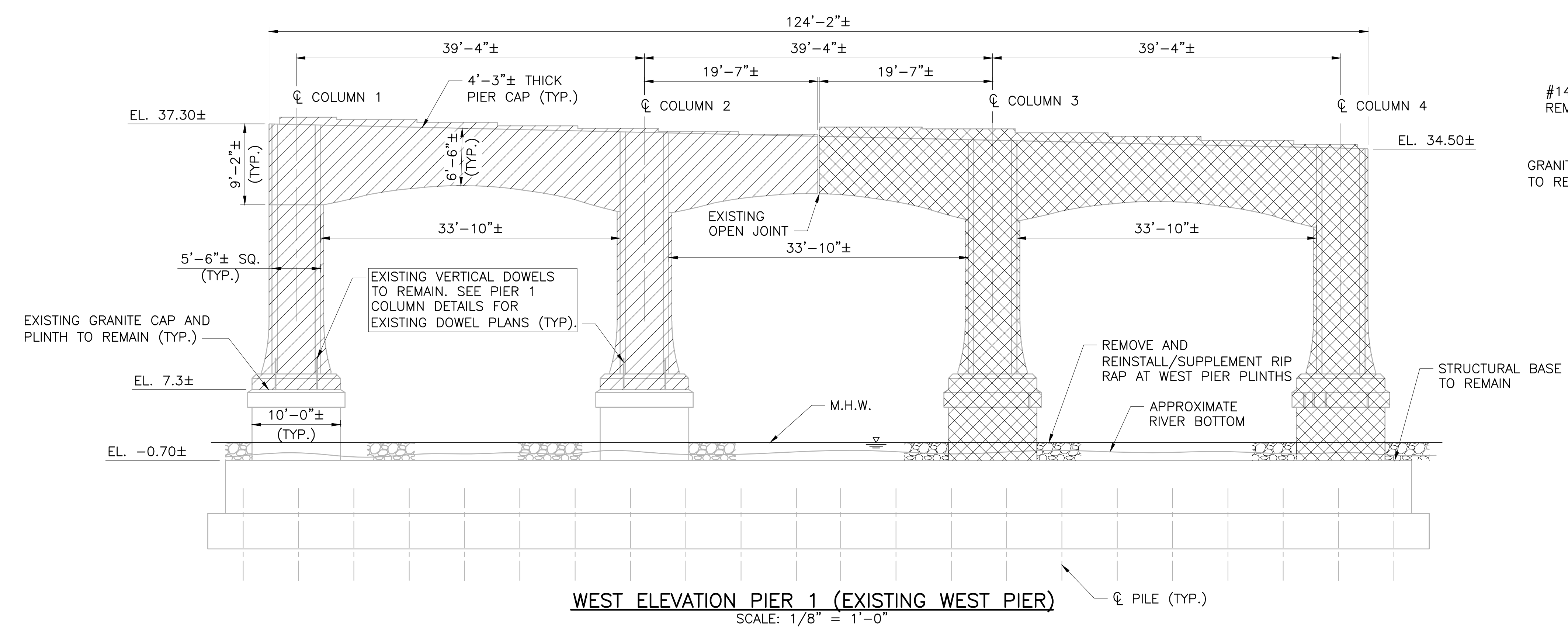
REVISIONS		
NO.	DATE	BY
1	3/24/20	VHB
2	5/1/20	VHB

**RHODE ISLAND
DEPARTMENT OF TRANSPORTATION**

**BRIDGE GROUP 49 - HENDERSON
RECONSTRUCTION OF
HENDERSON BRIDGE NO. 600
PROVIDENCE/EAST PROVIDENCE, RHODE ISLAND**

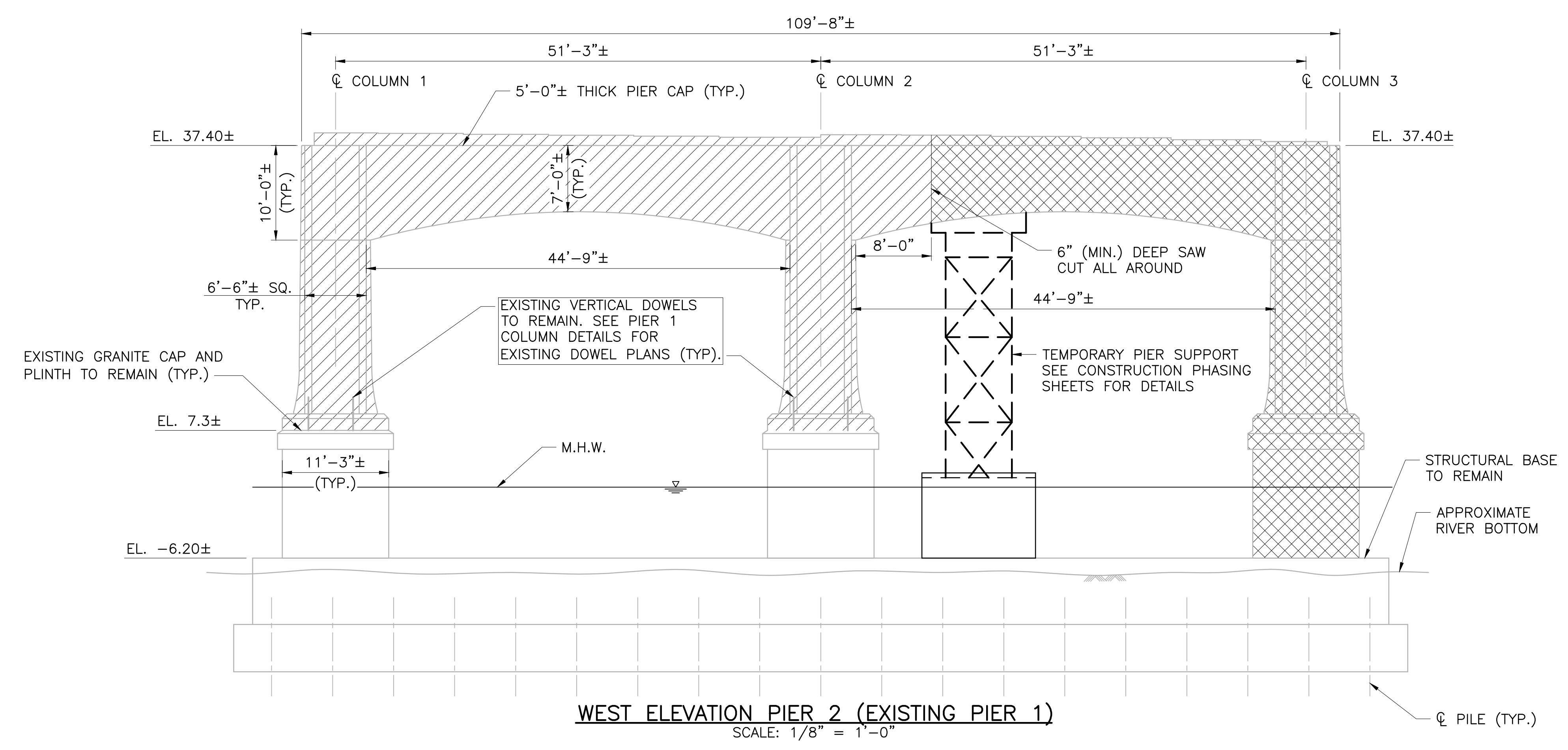
**SUBSTRUCTURE
DEMOLITION 1**

CHECKED BY _____ DATE _____ SCALE _____



TREATMENT AT PLINTH TO REMAIN DETAIL
 SCALE: 1/2" = 1'-0"

- NOTES**
- CARE MUST BE TAKEN DURING THE REMOVAL OF THE DESIGNATED PORTIONS OF THE STRUCTURE TO AVOID DAMAGING THE PORTIONS THAT ARE TO REMAIN IN PLACE. ANY DAMAGE CAUSED BY THE CONTRACTOR TO THE EXISTING STRUCTURE THAT IS DESIGNATED TO REMAIN IN PLACE SHALL BE REPAIRED BY THE CONTRACTOR AT HIS OWN EXPENSE TO THE SATISFACTION OF THE ENGINEER.
 - THE CONTRACTOR SHALL EXERCISE EXTREME CAUTION DURING THE COLUMN DEMOLITION PROCEDURE. THE CONTRACTOR SHALL SUBMIT DETAILS FOR REVIEW AND APPROVAL BY THE ENGINEER AS PART OF THE DEMOLITION SHOP DRAWINGS. THE DETAILS SHALL DESCRIBE THE MEANS AND METHODS TO PRESERVE THE EXISTING DOWEL BARS DURING DEMOLITION. ONCE EXPOSED, THE CONDITION OF THE EXISTING DOWELS SHALL BE INSPECTED BY THE ENGINEER FOR REUSE. ANY DAMAGE TO THE EXISTING DOWEL BARS RESULTING FROM DEMOLITION OPERATIONS SHALL BE REPAIRED TO THE SATISFACTION OF THE ENGINEER AT NO ADDITIONAL COST TO THE STATE. REFER TO THE SPECIFICATIONS FOR ITEM CODE 803.9911 FOR ADDITIONAL INFORMATION.



- DEMOLITION WITHIN 2'-0" OF GRANITE CAP AND PILES TO REMAIN SHALL BE PERFORMED WITH 30 LB (MAX.) CHIPPING HAMMER. CHIPPING HAMMERS TO REMOVE CONCRETE WITHIN 2 INCHES AROUND REINFORCING STEEL SHALL NOT BE HEAVIER THAN 15-POUND CLASS. TOOLS SHALL NOT CONTACT REINFORCING STEEL TO REMAIN.
- REINFORCING STEEL NOT SHOWN. FOR EXISTING WEST PIER PLANS REFER TO RIC CONTRACT CO_6454. FOR EXISTING PIER 1 PLANS REFER TO RIC CONTRACT CO_6352.
- #14 AND #18 EXISTING VERTICAL DOWELS TO REMAIN. SEE PIER COLUMN DETAILS PLANS FOR EXISTING DOWEL PLANS (TYP.).
- WHEN THE TOP OF THE STRUCTURAL BASE AROUND THE COLUMN(S) TO BE FULLY REMOVED IS EXPOSED, THE COLUMN(S) SHALL BE REMOVED AND DISPOSED OF TO THE TOP OF STRUCTURAL BASE (-0", +2"). WHEN THE TOP OF THE STRUCTURAL BASE AROUND THE COLUMN(S) TO BE FULLY REMOVED IS NOT EXPOSED, THE COLUMN(S) SHALL BE REMOVED AND DISPOSED OF TO THE TOP OF THE MUDDLINE. FOR THE WEST PIER, COLUMNS SHOWN FOR COMPLETE REMOVAL SHALL BE REMOVED AND DISPOSED OF TO THE TOP OF THE STRUCTURAL BASE (-0", +2").

LEGEND

- REMOVE AND DISPOSE PHASE 2
- REMOVE AND DISPOSE PHASE 5

REVISIONS		
NO.	DATE	BY
1	3/24/20	VHB
2	5/1/20	VHB

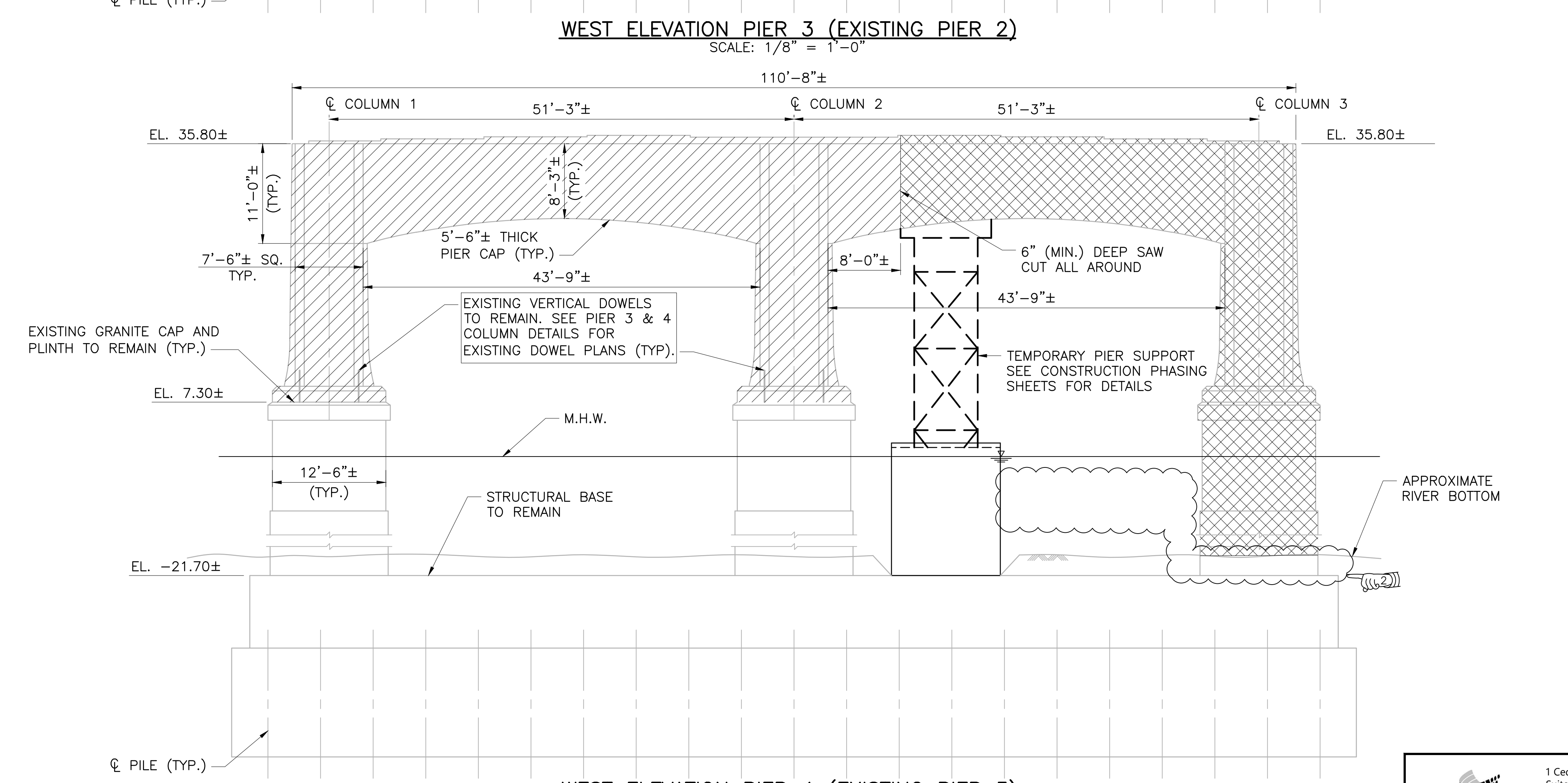
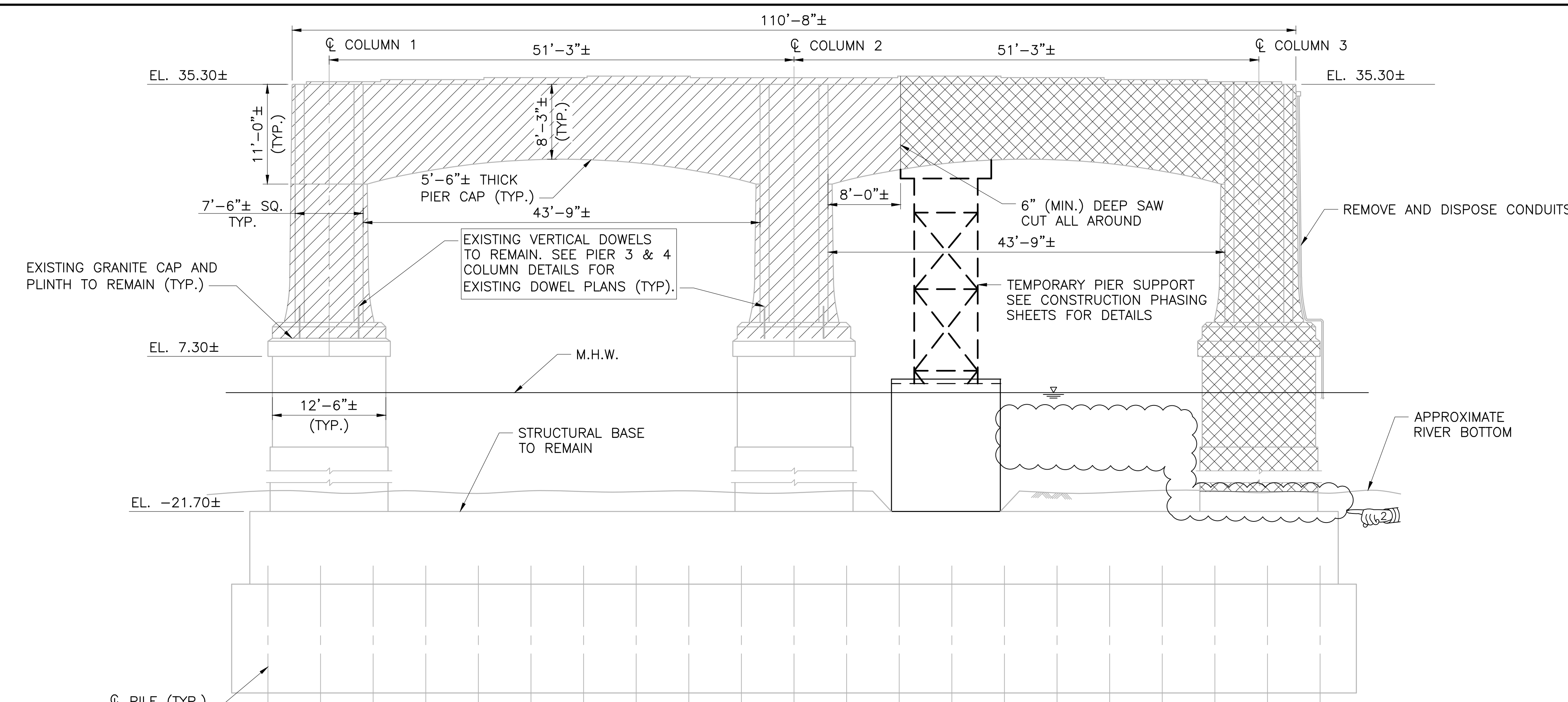
**RHODE ISLAND
DEPARTMENT OF TRANSPORTATION**

**BRIDGE GROUP 49 - HENDERSON
RECONSTRUCTION OF
HENDERSON BRIDGE NO. 600
PROVIDENCE/EAST PROVIDENCE, RHODE ISLAND**

**SUBSTRUCTURE
DEMOLITION 2**

CHECKED BY _____ DATE _____ SCALE _____

1 Cedar Street
 Suite 400
 Providence, RI 02903
 401.272.8100



NOTES

- CARE MUST BE TAKEN DURING THE REMOVAL OF THE DESIGNATED PORTIONS OF THE STRUCTURE TO AVOID DAMAGING THE PORTIONS THAT ARE TO REMAIN IN PLACE. ANY DAMAGE CAUSED BY THE CONTRACTOR TO THE EXISTING STRUCTURE THAT IS DESIGNATED TO REMAIN IN PLACE SHALL BE REPAIRED BY THE CONTRACTOR AT HIS OWN EXPENSE TO THE SATISFACTION OF THE ENGINEER.
- THE CONTRACTOR SHALL EXERCISE EXTREME CAUTION DURING THE COLUMN DEMOLITION PROCEDURE. THE CONTRACTOR SHALL SUBMIT DETAILS FOR REVIEW AND APPROVAL BY THE ENGINEER AS PART OF THE DEMOLITION SHOP DRAWINGS. THE DETAILS SHALL DESCRIBE THE MEANS AND METHODS TO PRESERVE THE EXISTING DOWEL BARS DURING DEMOLITION. ONCE EXPOSED, THE CONDITION OF THE EXISTING DOWELS SHALL BE INSPECTED BY THE ENGINEER FOR REUSE. ANY DAMAGE TO THE EXISTING DOWEL BARS RESULTING FROM DEMOLITION OPERATIONS SHALL BE REPAIRED TO THE SATISFACTION OF THE ENGINEER AT NO ADDITIONAL COST TO THE STATE. REFER TO THE SPECIFICATIONS FOR ITEM CODE 803.9912 FOR ADDITIONAL INFORMATION.
- DEMOLITION WITHIN 2'-0" OF GRANITE CAP AND PILES TO REMAIN SHALL BE PERFORMED WITH 30 LB (MAX.) CHIPPING HAMMER. CHIPPING HAMMERS TO REMOVE CONCRETE WITHIN 2 INCHES AROUND REINFORCING STEEL SHALL NOT BE HEAVIER THAN 15-POUND CLASS. TOOLS SHALL NOT CONTACT REINFORCING STEEL TO REMAIN.
- REINFORCING STEEL NOT SHOWN. FOR EXISTING PIERS 2 AND 3 PLANS REFER TO RIC CONTRACT CO_6352.
- #14 AND #18 EXISTING VERTICAL DOWELS TO REMAIN. SEE PIER COLUMN DETAILS PLANS FOR EXISTING DOWEL PLANS (TYP.).
- SEE SUBSTRUCTURE DEMOLITION 2 FOR TREATMENT AT PLINTH TO REMAIN DETAIL.
- WHEN THE TOP OF THE STRUCTURAL BASE AROUND THE COLUMN(S) TO BE FULLY REMOVED IS EXPOSED, THE COLUMN SHALL BE REMOVED AND DISPOSED OF TO THE TOP OF STRUCTURAL BASE (-0", +2"). WHEN THE TOP OF THE STRUCTURAL BASE AROUND THE COLUMN(S) TO BE FULLY REMOVED IS NOT EXPOSED, THE COLUMN SHALL BE REMOVED AND DISPOSED OF TO THE TOP OF THE MUDLINE.
- NAVIGATIONAL LIGHTS SHALL BE MAINTAINED DURING CONSTRUCTION. SEE VOLUME 1 LIGHTING PLANS.

LEGEND

- REMOVE AND DISPOSE PHASE 2
- REMOVE AND DISPOSE PHASE 5
- DECK SAW CUT

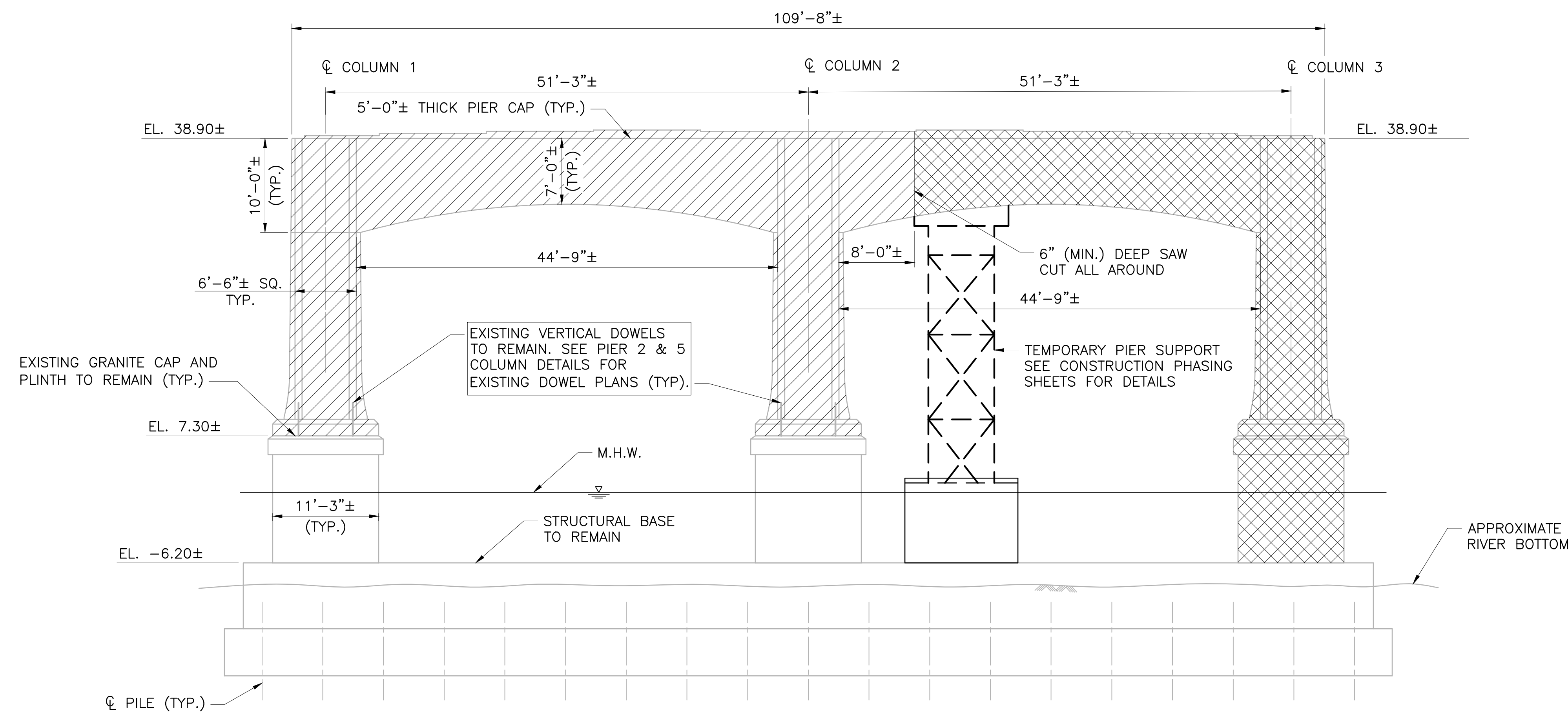
REVISIONS		
NO.	DATE	BY
1	3/24/20	VHB
2	5/1/20	VHB

**RHODE ISLAND
DEPARTMENT OF TRANSPORTATION**

**BRIDGE GROUP 49 - HENDERSON
RECONSTRUCTION OF
HENDERSON BRIDGE NO. 600
PROVIDENCE/EAST PROVIDENCE, RHODE ISLAND**

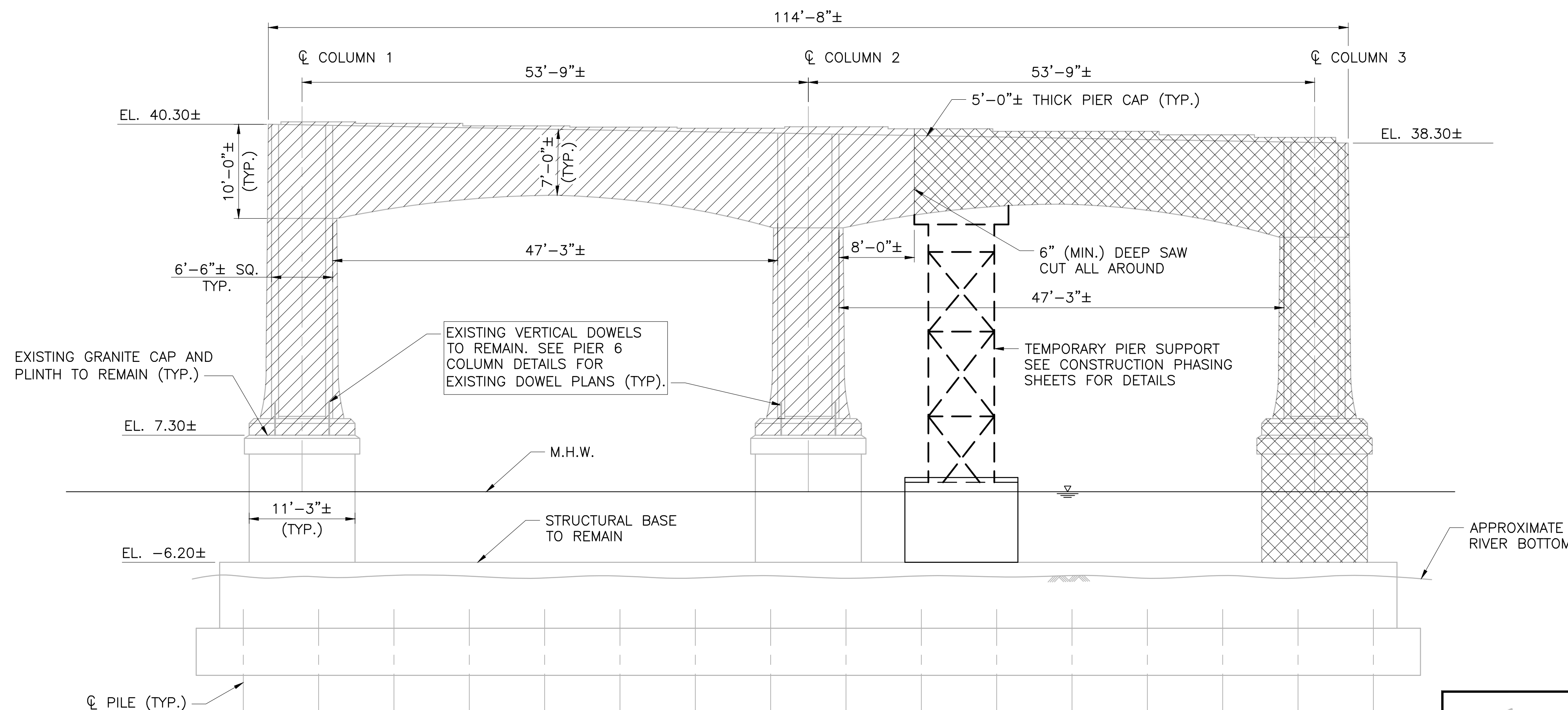
**SUBSTRUCTURE
DEMOLITION 3**

CHECKED BY _____ DATE _____ SCALE _____



WEST ELEVATION PIER 5 (EXISTING PIER 4)

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



WEST ELEVATION PIER 6 (EXISTING PIER 5)

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

NOTES

- CARE MUST BE TAKEN DURING THE REMOVAL OF THE DESIGNATED PORTIONS OF THE STRUCTURE TO AVOID DAMAGING THE PORTIONS THAT ARE TO REMAIN IN PLACE. ANY DAMAGE CAUSED BY THE CONTRACTOR TO THE EXISTING STRUCTURE THAT IS DESIGNATED TO REMAIN IN PLACE SHALL BE REPAIRED BY THE CONTRACTOR AT HIS OWN EXPENSE TO THE SATISFACTION OF THE ENGINEER.
- THE CONTRACTOR SHALL EXERCISE EXTREME CAUTION DURING THE COLUMN DEMOLITION PROCEDURE. THE CONTRACTOR SHALL SUBMIT DETAILS FOR REVIEW AND APPROVAL BY THE ENGINEER AS PART OF THE DEMOLITION SHOP DRAWINGS. THE DETAILS SHALL DESCRIBE THE MEANS AND METHODS TO PRESERVE THE EXISTING DOWEL BARS DURING DEMOLITION. ONCE EXPOSED, THE CONDITION OF THE EXISTING DOWELS SHALL BE INSPECTED BY THE ENGINEER FOR REUSE. ANY DAMAGE TO THE EXISTING DOWEL BARS RESULTING FROM DEMOLITION OPERATIONS SHALL BE REPAIRED TO THE SATISFACTION OF THE ENGINEER AT NO ADDITIONAL COST TO THE STATE. REFER TO THE SPECIFICATIONS FOR ITEM CODE 803.9912 FOR ADDITIONAL INFORMATION.
- DEMOLITION WITHIN 2'-0" OF GRANITE CAP AND PILES TO REMAIN SHALL BE PERFORMED WITH 30 LB (MAX.) CHIPPING HAMMER. CHIPPING HAMMERS TO REMOVE CONCRETE WITHIN 2 INCHES AROUND REINFORCING STEEL SHALL NOT BE HEAVIER THAN 15-POUND CLASS. TOOLS SHALL NOT CONTACT REINFORCING STEEL TO REMAIN.
- REINFORCING STEEL NOT SHOWN. FOR EXISTING PIER 4 PLANS REFER TO RIC CONTRACT CO_6352. FOR EXISTING PIER 5 PLANS REFER TO RIC CONTRACT CO_6553.
- #14 AND #18 EXISTING VERTICAL DOWELS TO REMAIN. SEE PIER COLUMN DETAILS PLANS FOR EXISTING DOWEL PLANS (TYP.).
- SEE SUBSTRUCTURE DEMOLITION 2 FOR TREATMENT AT PLINTH TO REMAIN DETAIL.

1.1

2.1

LEGEND

- REMOVE AND DISPOSE PHASE 2
- REMOVE AND DISPOSE PHASE 5
- DECK SAW CUT

REVISIONS		
NO.	DATE	BY
1	3/24/20	VHB
2	5/1/20	VHB

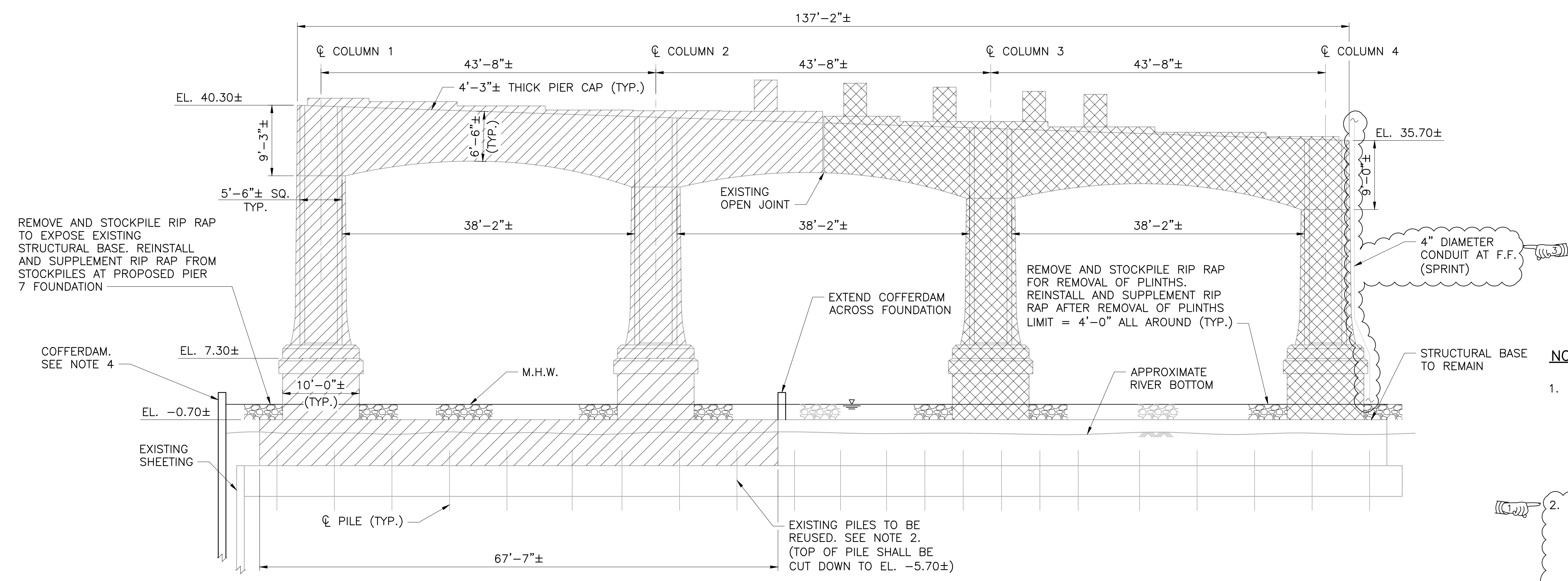
RHODE ISLAND
DEPARTMENT OF TRANSPORTATION

**BRIDGE GROUP 49 - HENDERSON
RECONSTRUCTION OF
HENDERSON BRIDGE NO. 600
PROVIDENCE/EAST PROVIDENCE, RHODE ISLAND**

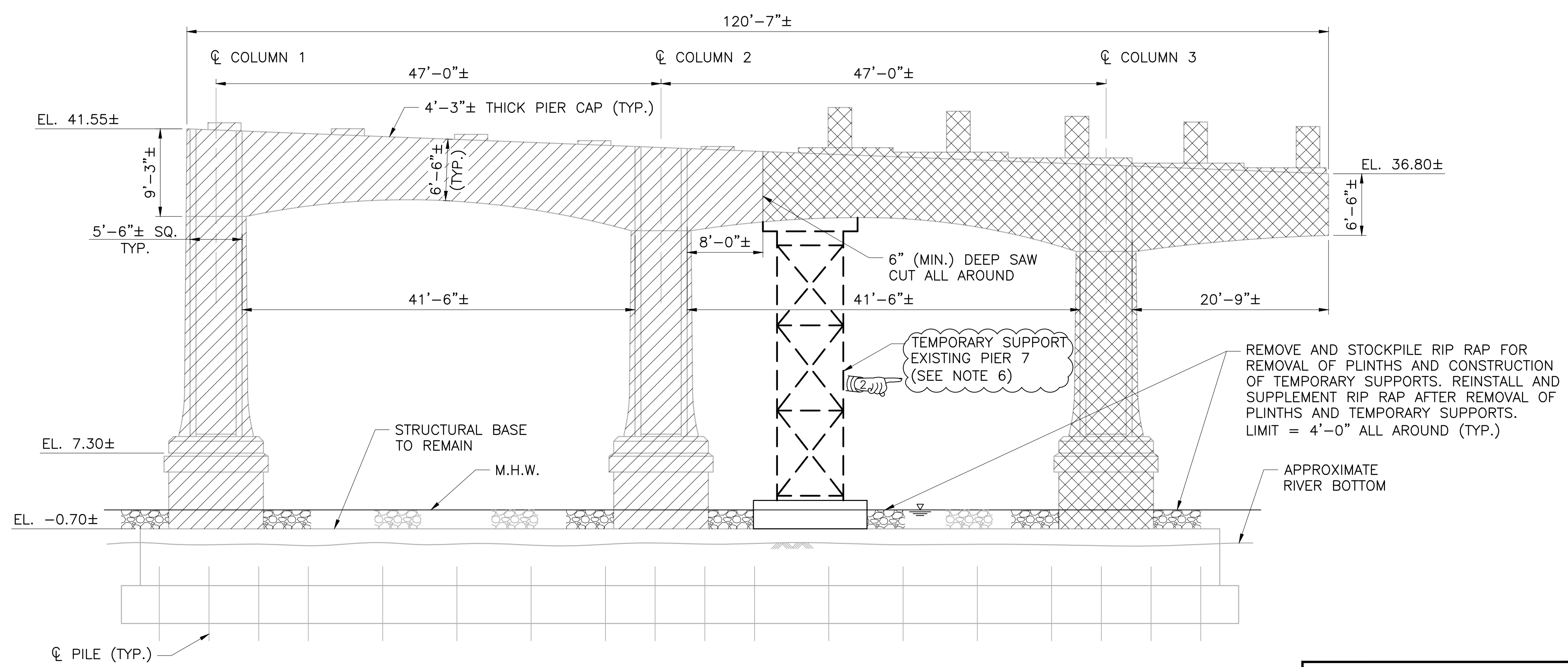
**SUBSTRUCTURE
DEMOLITION 4**

CHECKED BY _____ DATE _____ SCALE _____

FED. ROAD DIV. NO.	STATE	FEDERAL AID PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
	RI		2020	30	149



WEST ELEVATION PIER 7 (EXISTING PIER 6)
SCALE: 1/8" = 1'-0"



WEST ELEVATION EXISTING PIER 7
SCALE: 1/8" = 1'-0"

NOTES

1. CARE MUST BE TAKEN DURING THE REMOVAL OF THE DESIGNATED PORTIONS OF THE STRUCTURE TO AVOID DAMAGING THE PORTIONS THAT ARE TO REMAIN IN PLACE. ANY DAMAGE CAUSED BY THE CONTRACTOR TO THE EXISTING STRUCTURE THAT IS DESIGNATED TO REMAIN IN PLACE SHALL BE REPAIRED BY THE CONTRACTOR AT HIS OWN EXPENSE TO THE SATISFACTION OF THE ENGINEER.
2. DEMOLITION WITHIN 2'-0" OF GRANITE CAP AND PILES TO REMAIN SHALL BE PERFORMED WITH 30 LB (MAX.) CHIPPING HAMMER. CHIPPING HAMMERS TO REMOVE CONCRETE WITHIN 2 INCHES AROUND REINFORCING STEEL SHALL NOT BE HEAVIER THAN 15-POUND CLASS. TOOLS SHALL NOT CONTACT REINFORCING STEEL TO REMAIN.
3. REINFORCING STEEL NOT SHOWN. FOR EXISTING PIERS 6 AND 7 PLANS REFER TO RIC CONTRACT CO_6553.
4. FOR LIMITS OF COFFER DAM SEE PIER 7 FOUNDATION PLAN.
5. COLUMNS SHOWN FOR COMPLETE REMOVAL SHALL BE REMOVED AND DISPOSED OF TO THE TOP OF FOUNDATION (-0", +2").
6. TEMPORARY PIER SUPPORT SUBJECT TO UPLIFT FORCES. THE CONTRACTOR SHALL DESIGN THE TEMPORARY PIER SUPPORT TOWER AND ALL CONNECTIONS TO THE CONCRETE CAP TO RESTRAIN UPLIFT. SEE CONSTRUCTION PHASING DETAILS FOR DESIGN LOADS.

LEGEND

- REMOVE AND DISPOSE PHASE 2
- REMOVE AND DISPOSE PHASE 5
- DECK SAW CUT

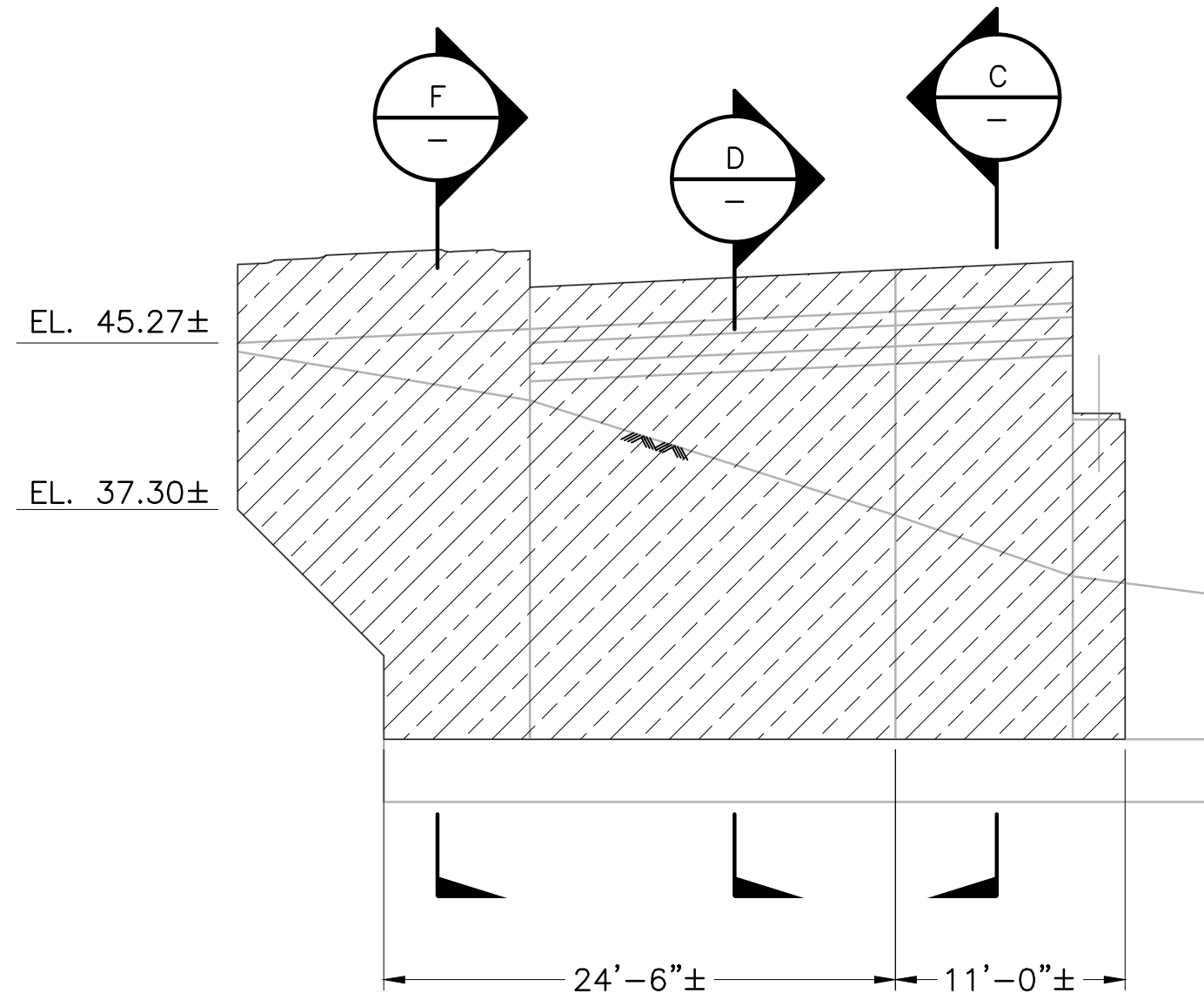
REVISIONS		
NO.	DATE	BY
1	3/24/20	VHB
2	4/2/20	VHB
3	5/1/20	VHB

RHODE ISLAND
DEPARTMENT OF TRANSPORTATION

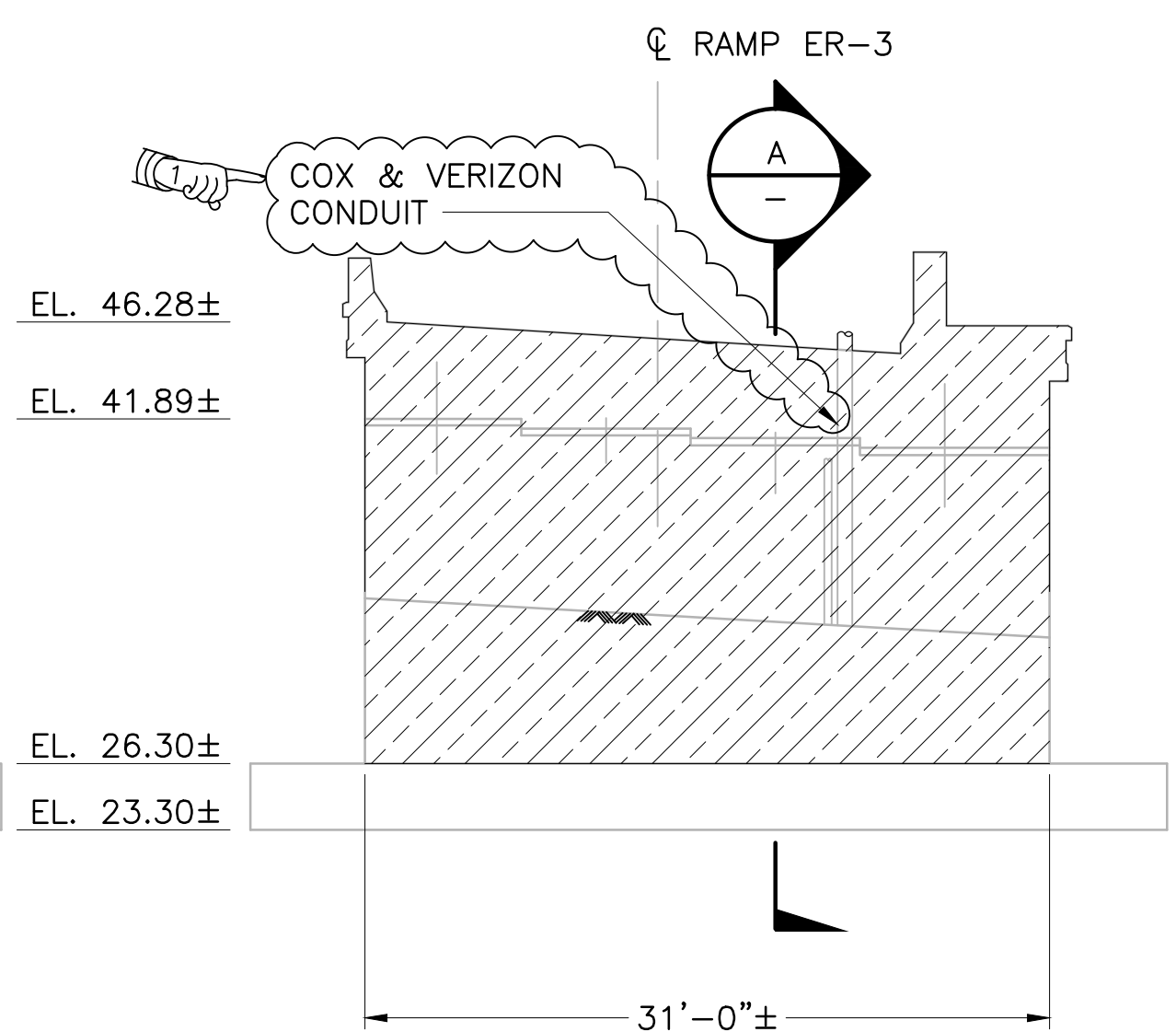
BRIDGE GROUP 49 - HENDERSON
RECONSTRUCTION OF
HENDERSON BRIDGE NO. 600
PROVIDENCE/EAST PROVIDENCE, RHODE ISLAND

SUBSTRUCTURE
DEMOLITION 5

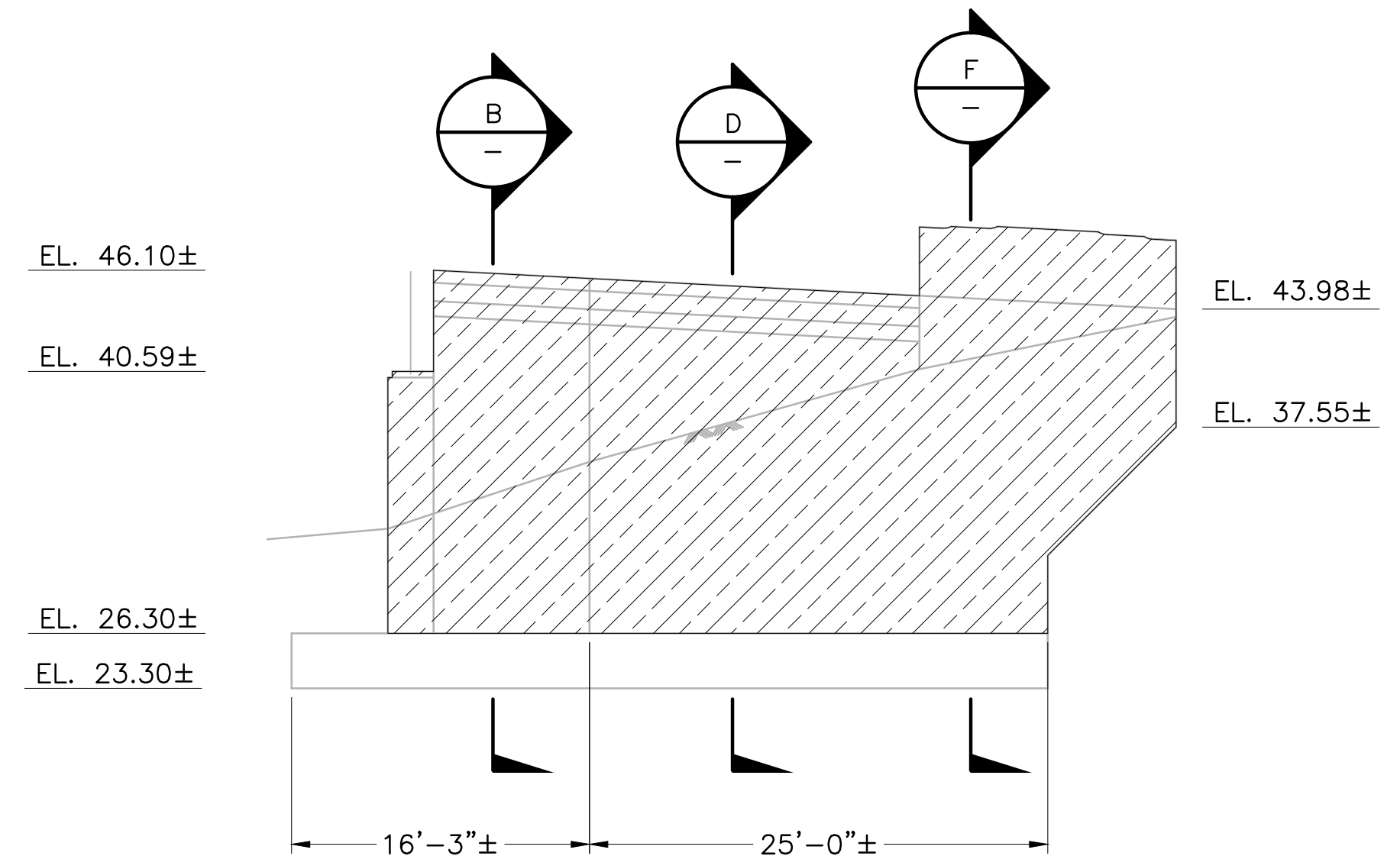
CHECKED BY _____ DATE _____ SCALE _____



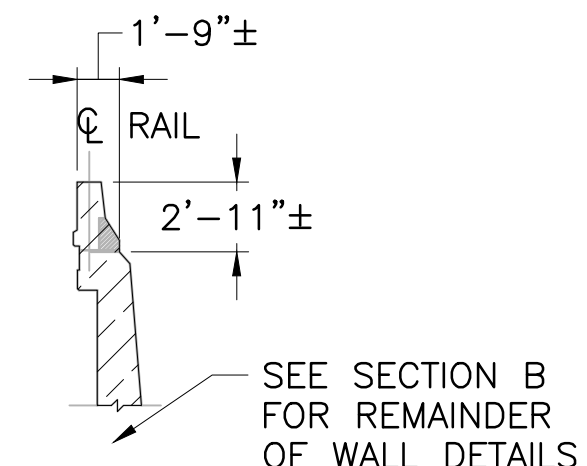
ELEVATION SOUTHEAST WINGWALL
SCALE: 1/8"=1'-0"



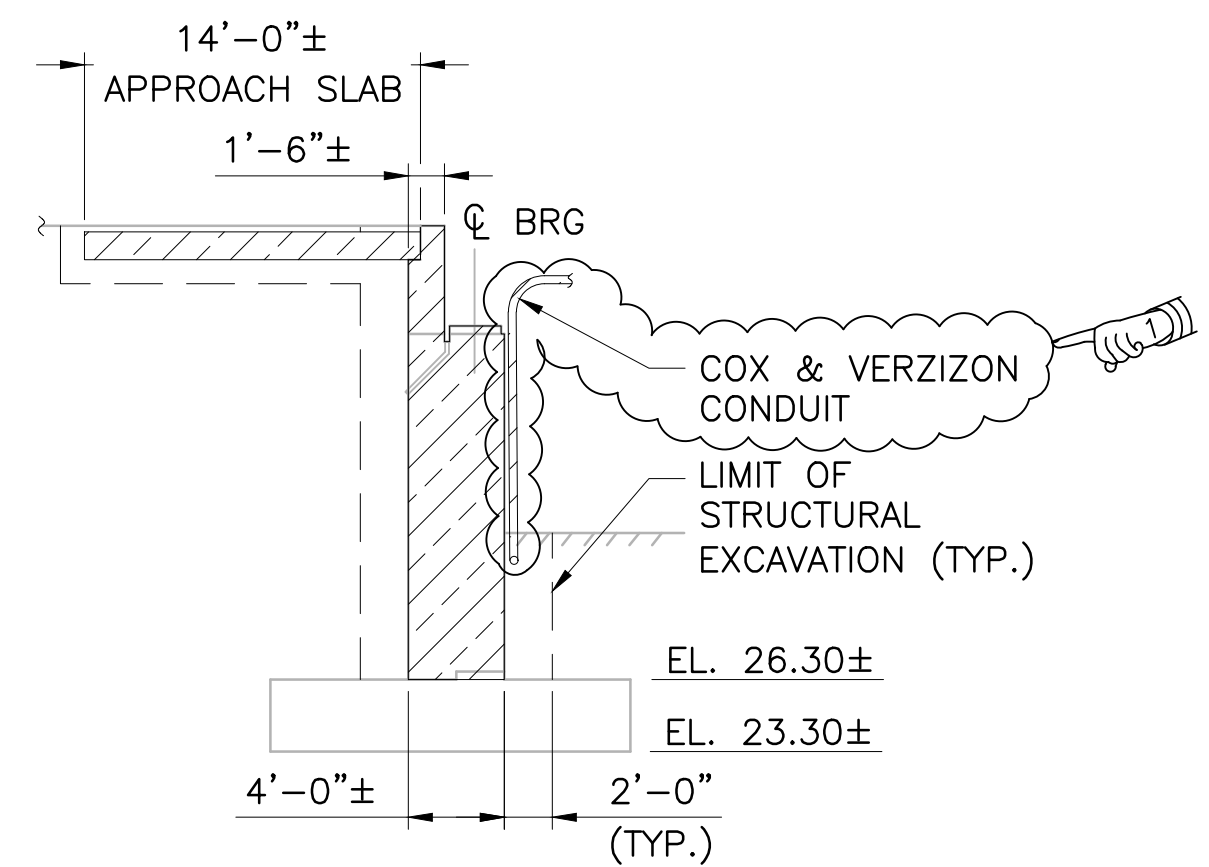
ELEVATION SOUTH ABUTMENT
SCALE: 1/8"=1'-0"



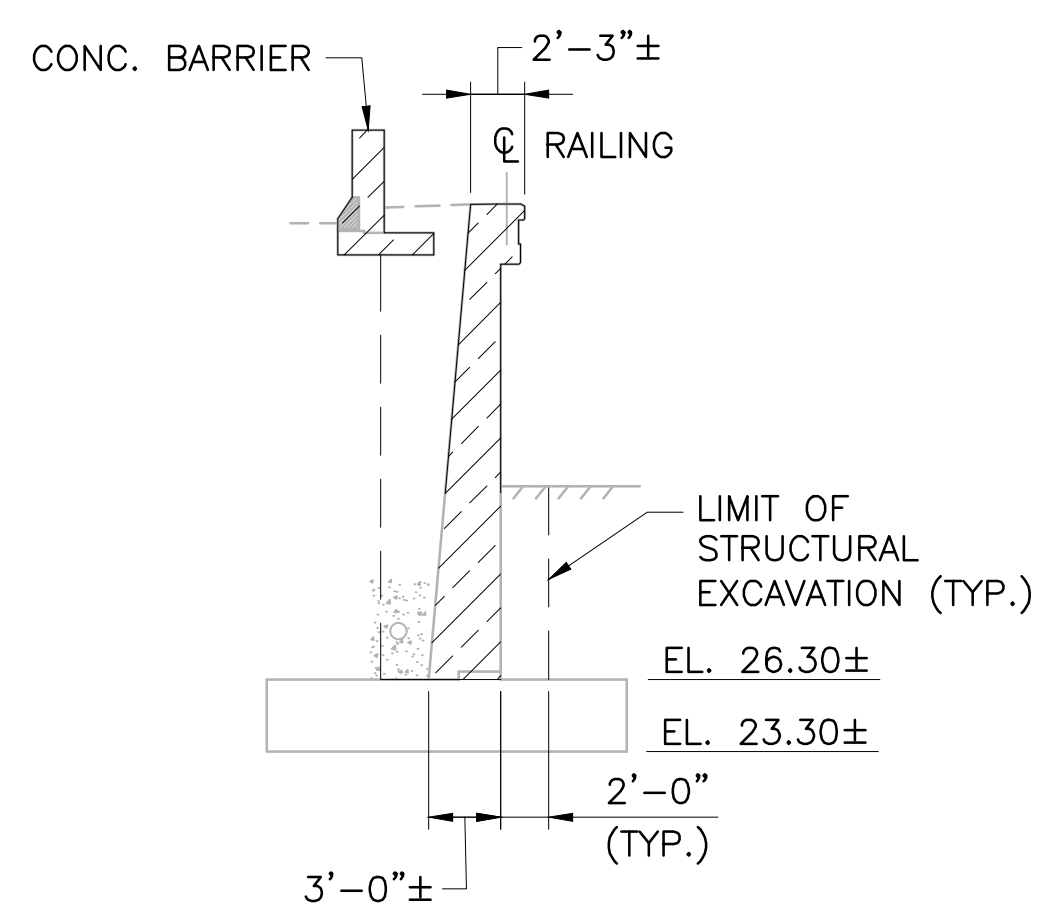
ELEVATION SOUTHWEST WINGWALL
SCALE: 1/8"=1'-0"



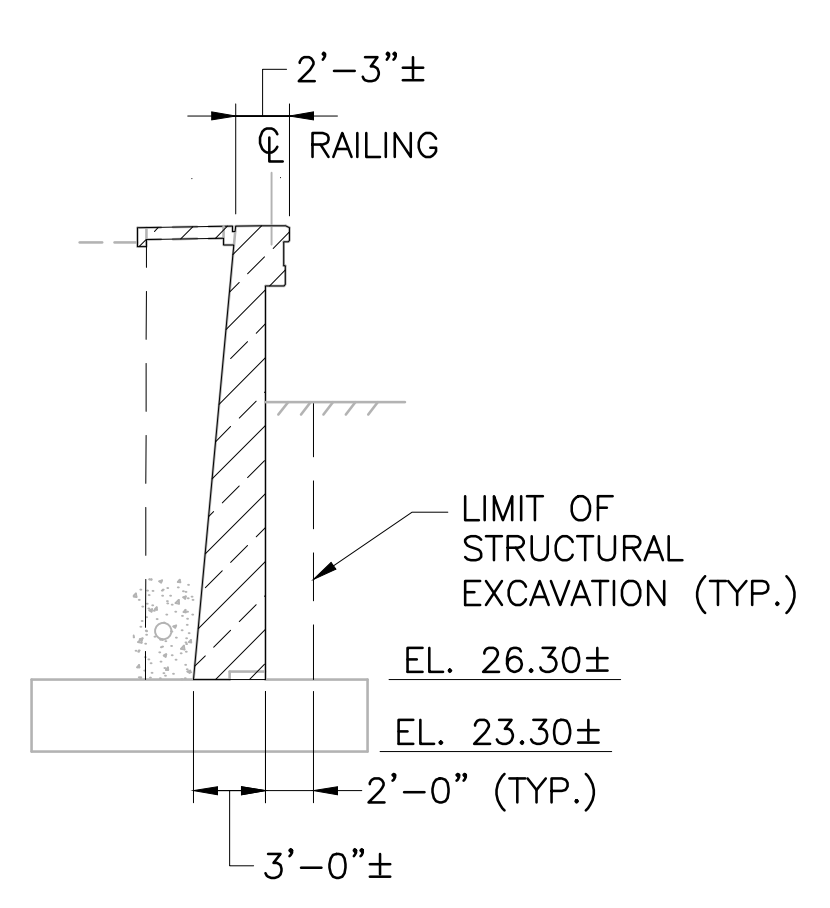
SECTION C
SCALE: 1/8"=1'-0"



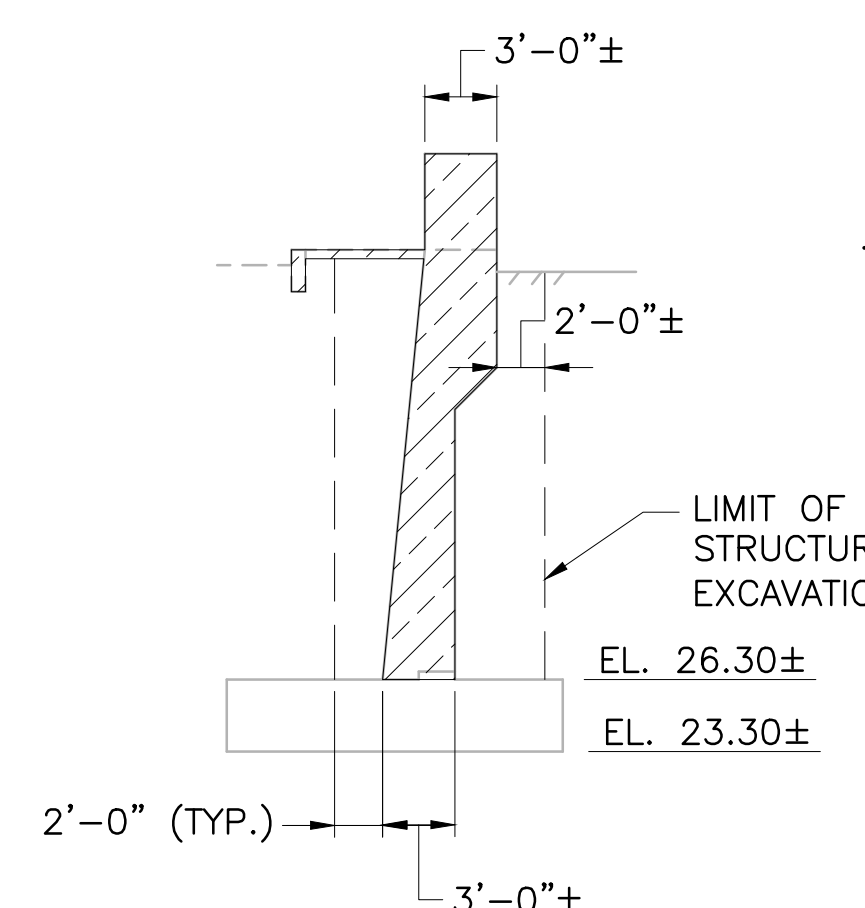
SECTION A
SCALE: 1/8"=1'-0"



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



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



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

- NOTES:**
- REINFORCING STEEL NOT SHOWN. REFER TO R.I. CONTRACT CO_6657 FOR EXISTING SOUTH ABUTMENT AND WINGWALL PLANS.
 - REFER TO DEMOLITION PLAN 1 FOR DEMOLITION NOTES.

LEGEND
 - REMOVE AND DISPOSE PHASE 4

REVISIONS		
NO.	DATE	BY
1	5/1/20	VHB

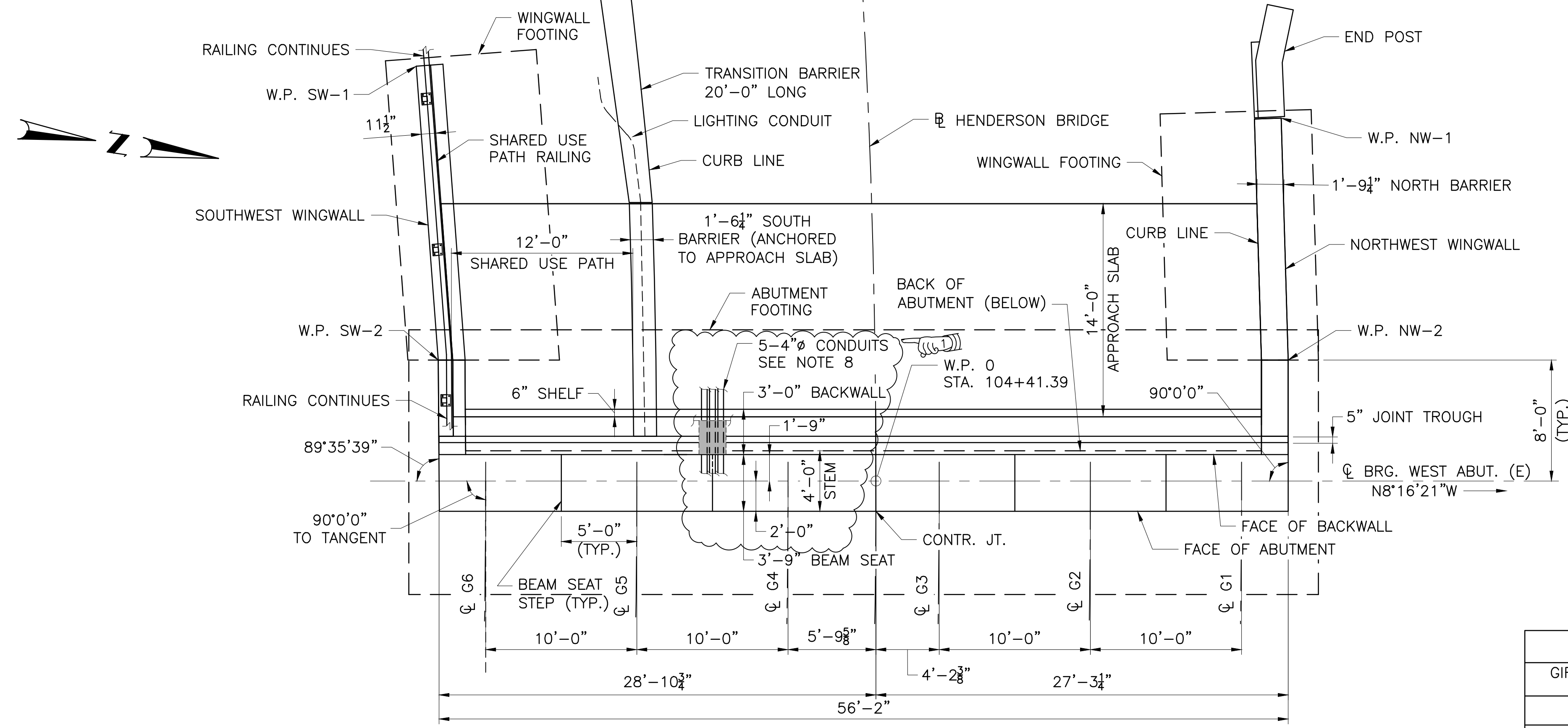
RHODE ISLAND
DEPARTMENT OF TRANSPORTATION

**BRIDGE GROUP 49 - HENDERSON
RECONSTRUCTION OF
HENDERSON BRIDGE NO. 600**
PROVIDENCE/EAST PROVIDENCE, RHODE ISLAND

**SUBSTRUCTURE
DEMOLITION 14**

CHECKED BY _____ DATE _____ SCALE _____

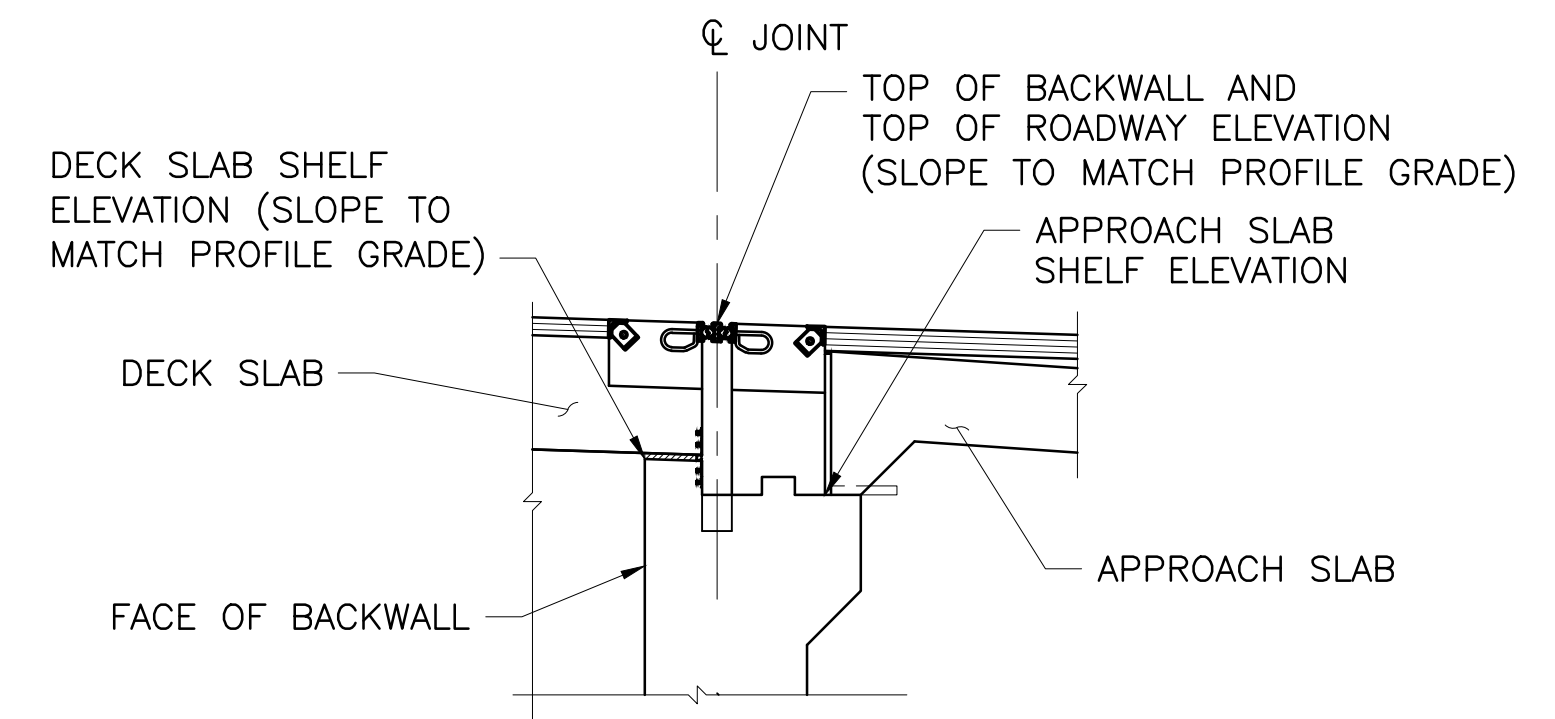




WEST ABUTMENT PLAN
 SCALE: 3/16"=1'-0"

SEAT ELEVATIONS*	
GIRDER	ELEVATION (FT.)
G1	30.11
G2	30.31
G3	30.51
G4	30.48
G5	30.33
G6	30.53

* SEE NOTE 3.

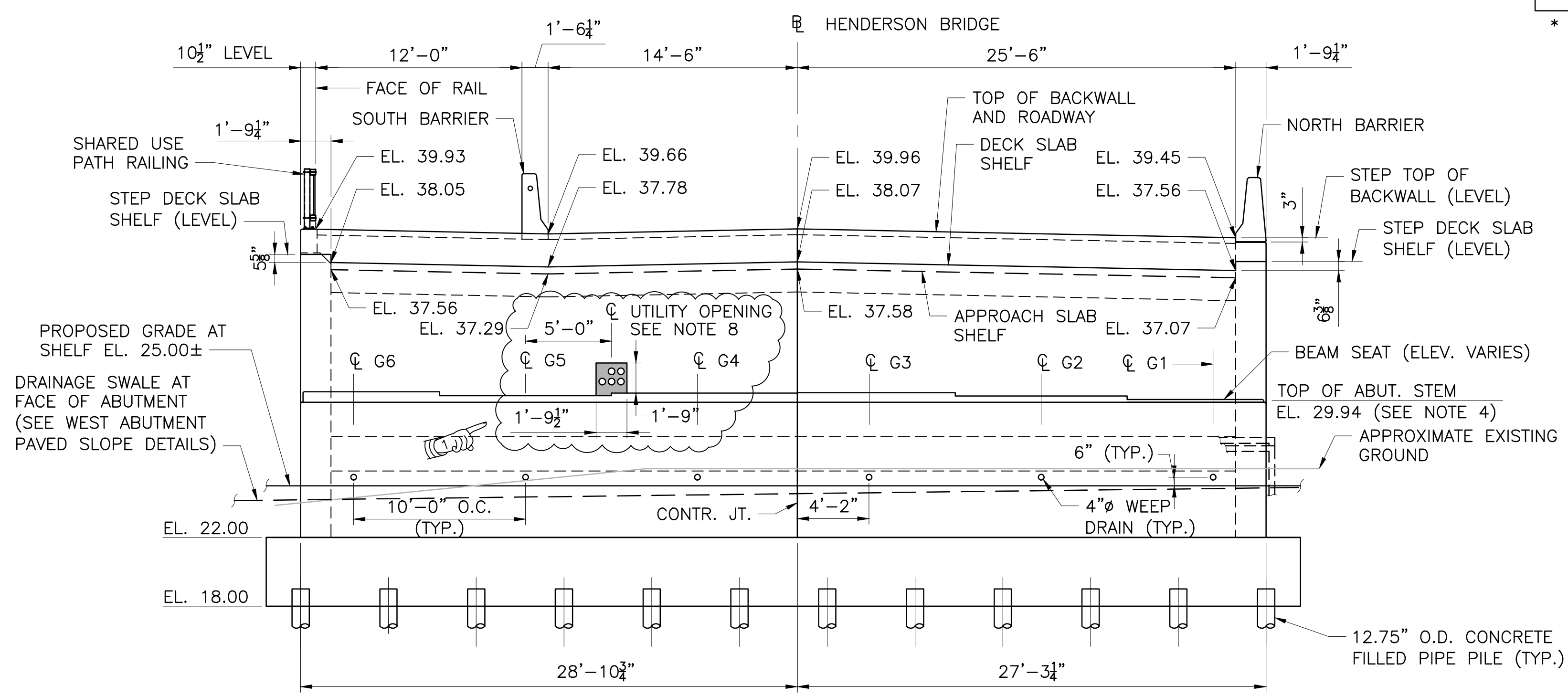


ELEVATION POINTS AT BACKWALL DETAIL
 SCALE: 3/8"=1'-0"

WORKING POINTS		
W.P.	STATION	OFFSET
W.P. NW-1	104+18.43	27.27' LT.
W.P. NW-2	104+33.74	27.32' LT.
W.P. SW-1	104+12.49	29.74' RT.
W.P. SW-2	104+32.98	28.90' RT.

NOTES

- BEAM SEAT STEPS SHALL BE CENTERED BETWEEN GIRDERS, MEASURED ALONG CL OF BEARING. BEAM STEP SHALL BE PERPENDICULAR TO CL OF BEARING.
- MEASUREMENTS ARE TAKEN AT THE CL OF BEARING.
- BEAM SEAT ELEVATIONS SHALL BE COMPUTED AFTER THE OVERALL HEIGHT OF THE DISC BEARING (INCLUDING MASONRY PLATE) ARE KNOWN. SEAT ELEVATIONS ARE BASED ON ASSUMED BEARING HEIGHT=10".
- TOP OF STEM ELEVATIONS ARE BASED ON THE ASSUMED BEAM SEAT ELEVATIONS (SEE NOTE 3). TOP OF STEM ELEVATIONS SHALL BE 2" BELOW THE MINIMUM BEAM SEAT ELEVATION.
- FOR SHARE USE PATH POST RAILING SPACING SEE DECK PLAN.
- FOR TRANSITION BARRIER SEE SOUTH BARRIER TRANSITION DETAIL SHEETS.
- CAST IN PLACE BEARING ANCHOR RODS ARE NOT SHOWN. COORDINATE LOCATION AFTER DISC BEARING DIMENSIONS ARE KNOWN. SEE BEARING DETAIL SHEETS FOR ANTICIPATED BEARING ANCHORAGE.
- 5-4" Ø CONDUITS (SPRINT, VERIZON & COX) TO EXTEND THRU BACKWALL. FOR BACKWALL UTILITY OPENING DETAILS, SEE ABUTMENT DETAILS 3.



WEST ABUTMENT ELEVATION
 SCALE: 3/16"=1'-0"

REVISIONS		
NO.	DATE	BY
1	5/1/20	VHB

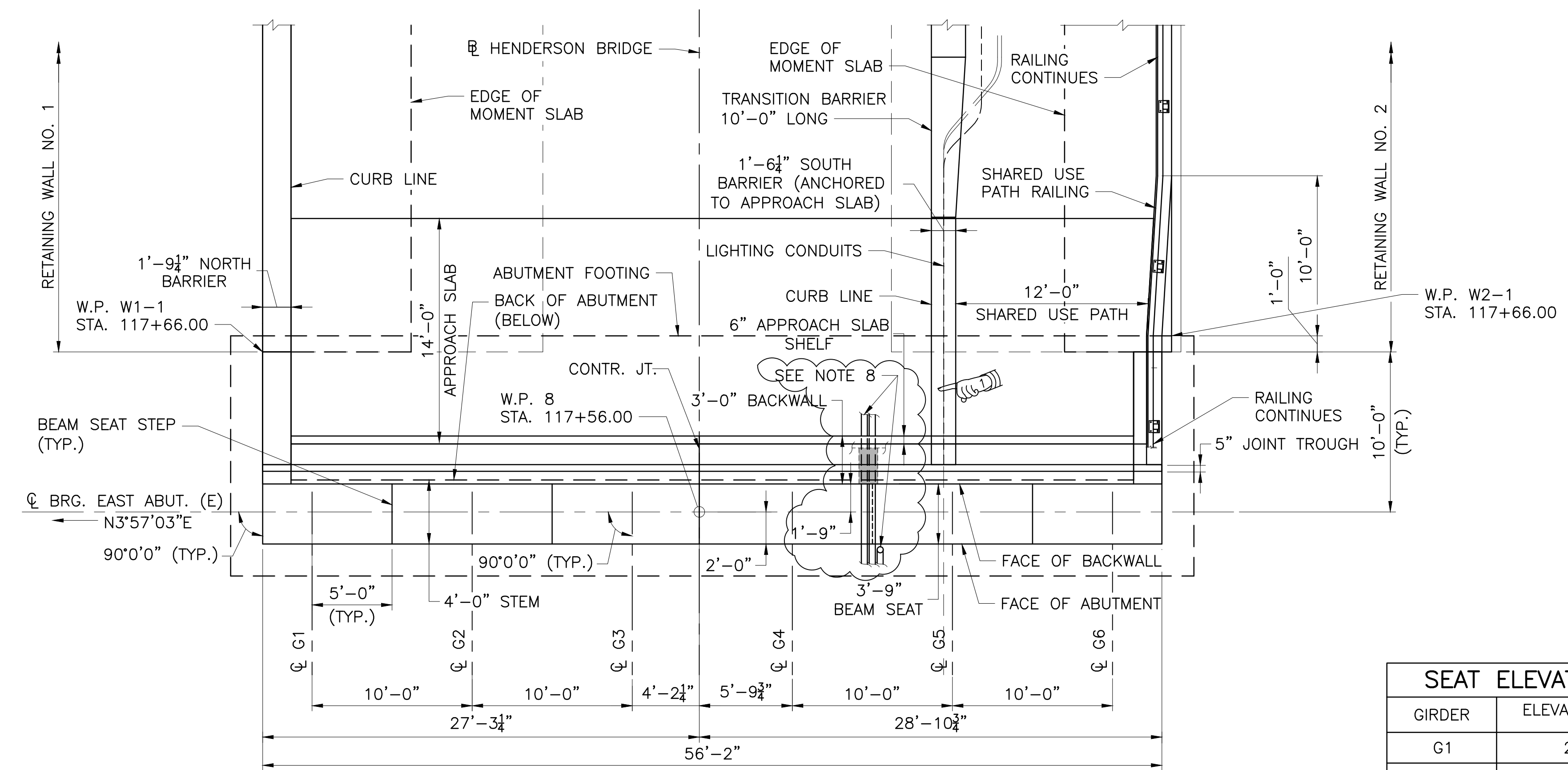
RHODE ISLAND
 DEPARTMENT OF TRANSPORTATION

BRIDGE GROUP 49 - HENDERSON RECONSTRUCTION OF HENDERSON BRIDGE NO. 600
 PROVIDENCE/EAST PROVIDENCE, RHODE ISLAND

WEST ABUTMENT PLAN AND ELEVATION

CHECKED BY _____ DATE _____ SCALE _____

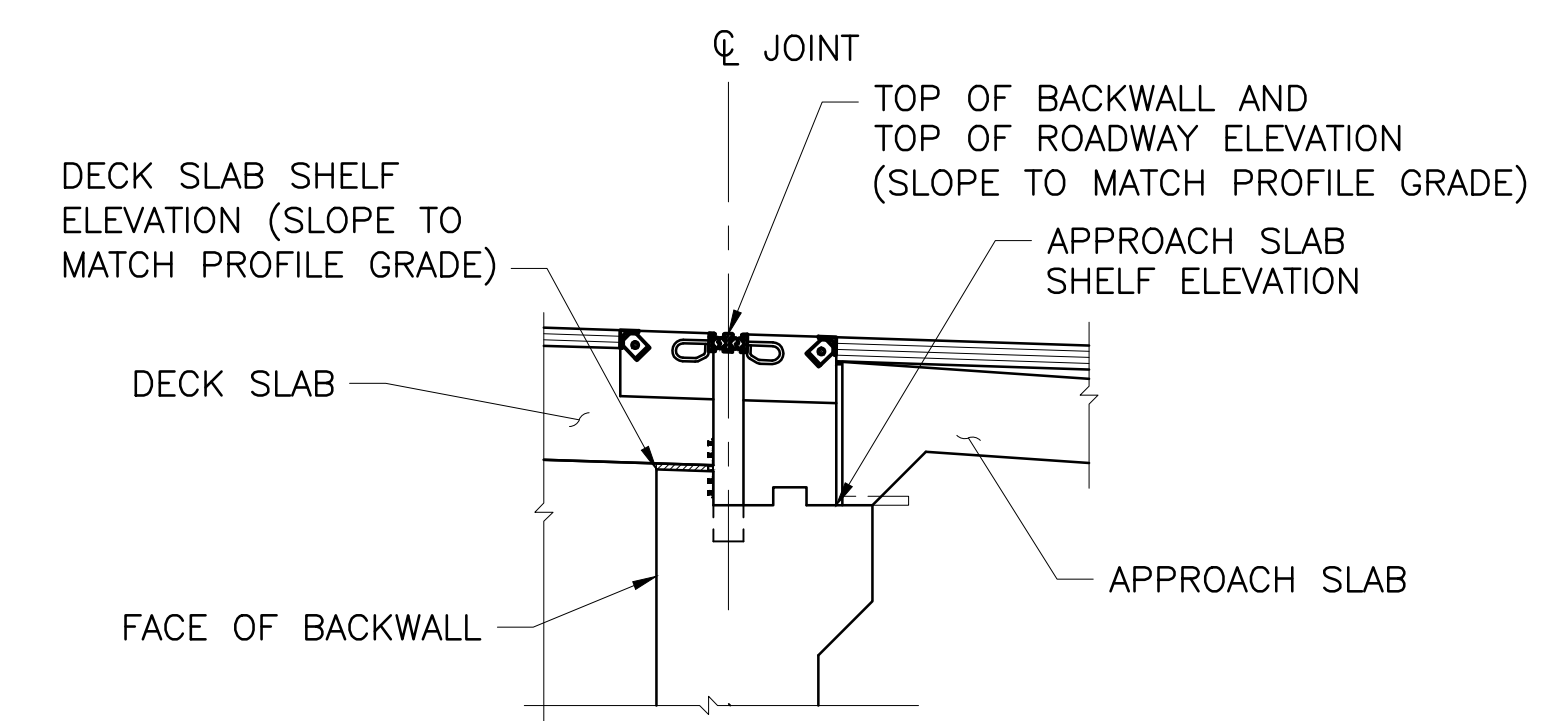




EAST ABUTMENT PLAN
 SCALE: 3/16"=1'-0"

SEAT ELEVATIONS*	
GIRDER	ELEVATION (FT.)
G1	24.36
G2	24.56
G3	24.76
G4	24.72
G5	24.58
G6	24.78

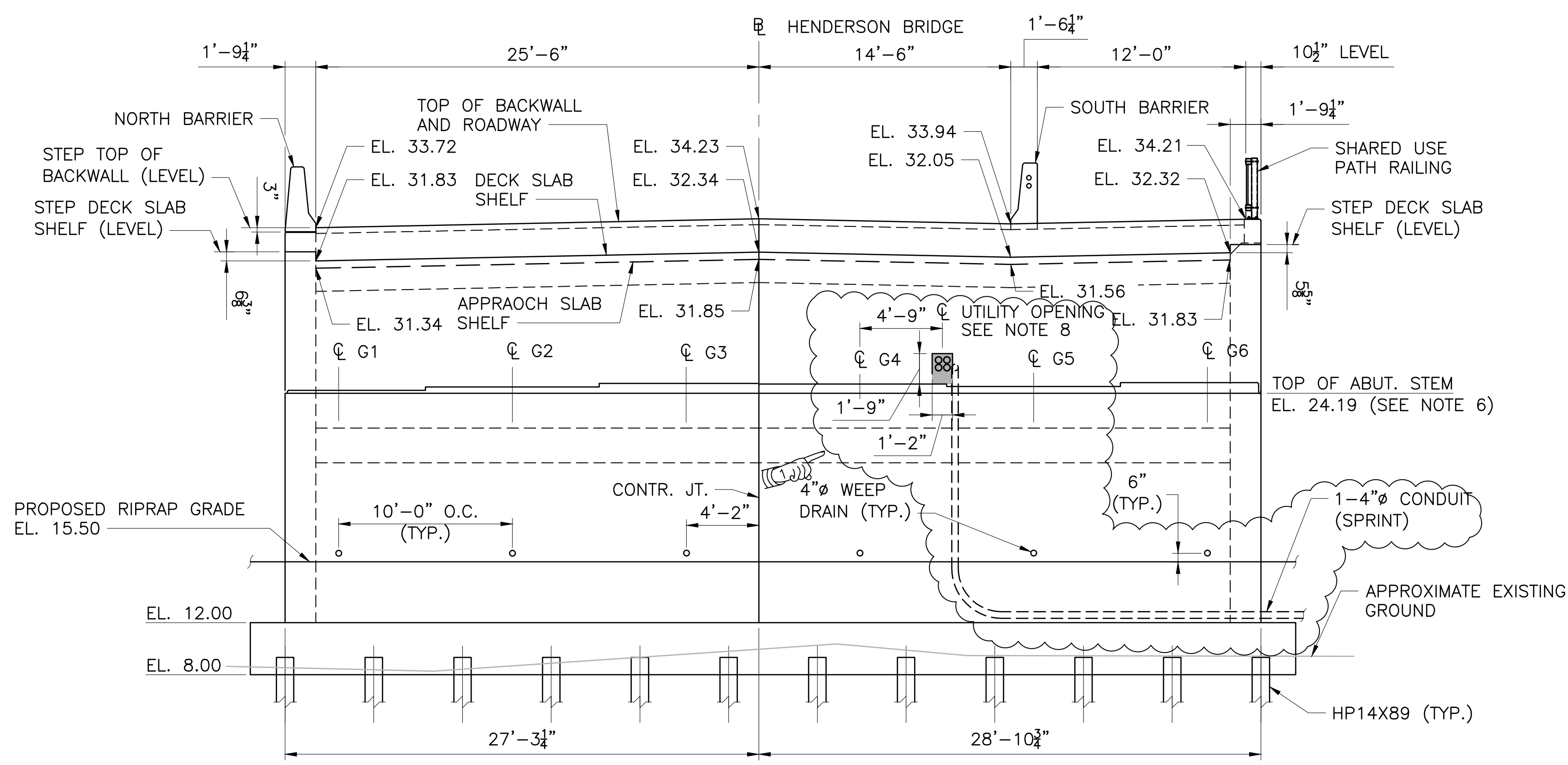
* SEE NOTE 3.



ELEVATION POINTS AT BACKWALL DETAIL
 SCALE: 3/8"=1'-0"

NOTES

- BEAM SEAT STEPS SHALL BE CENTERED BETWEEN GIRDERS, MEASURED ALONG ϕ OF BEARING. BEAM STEP SHALL BE PERPENDICULAR TO ϕ OF BEARING.
- MEASUREMENTS ARE TAKEN AT THE ϕ OF BEARING.
- BEAM SEAT ELEVATIONS SHALL BE COMPUTED AFTER THE OVERALL HEIGHT OF THE DISC BEARING (INCLUDING MASONRY PLATE) ARE KNOWN. SEAT ELEVATIONS ARE BASED ON ASSUMED BEARING HEIGHT=10".
- FOR SHARE USE PATH RAILING POST SPACING SEE DECK PLAN.
- FOR TRANSITION BARRIER SEE SOUTH BARRIER TRANSITION DETAILS SHEETS.
- TOP OF STEM ELEVATIONS ARE BASED ON THE ASSUMED BEAM SEAT ELEVATIONS (SEE NOTE 3). TOP OF STEM ELEVATIONS SHALL BE 2" BELOW THE MINIMUM BEAM SEAT ELEVATION.
- CAST IN PLACE BEARING ANCHOR RODS ARE NOT SHOWN. COORDINATE LOCATION AFTER DISC BEARING DIMENSIONS ARE KNOWN. SEE BEARING DETAIL SHEETS FOR ANTICIPATED BEARING ANCHORAGE.
- 1-4" ϕ CONDUIT (SPRINT) TO EXTEND DOWN ABUTMENT FACE. 4-4" ϕ CONDUITS (VERIZON & COX) TO EXTEND THRU BACKWALL. FOR BACKWALL UTILITY OPENING DETAILS, SEE ABUTMENT DETAILS 3.



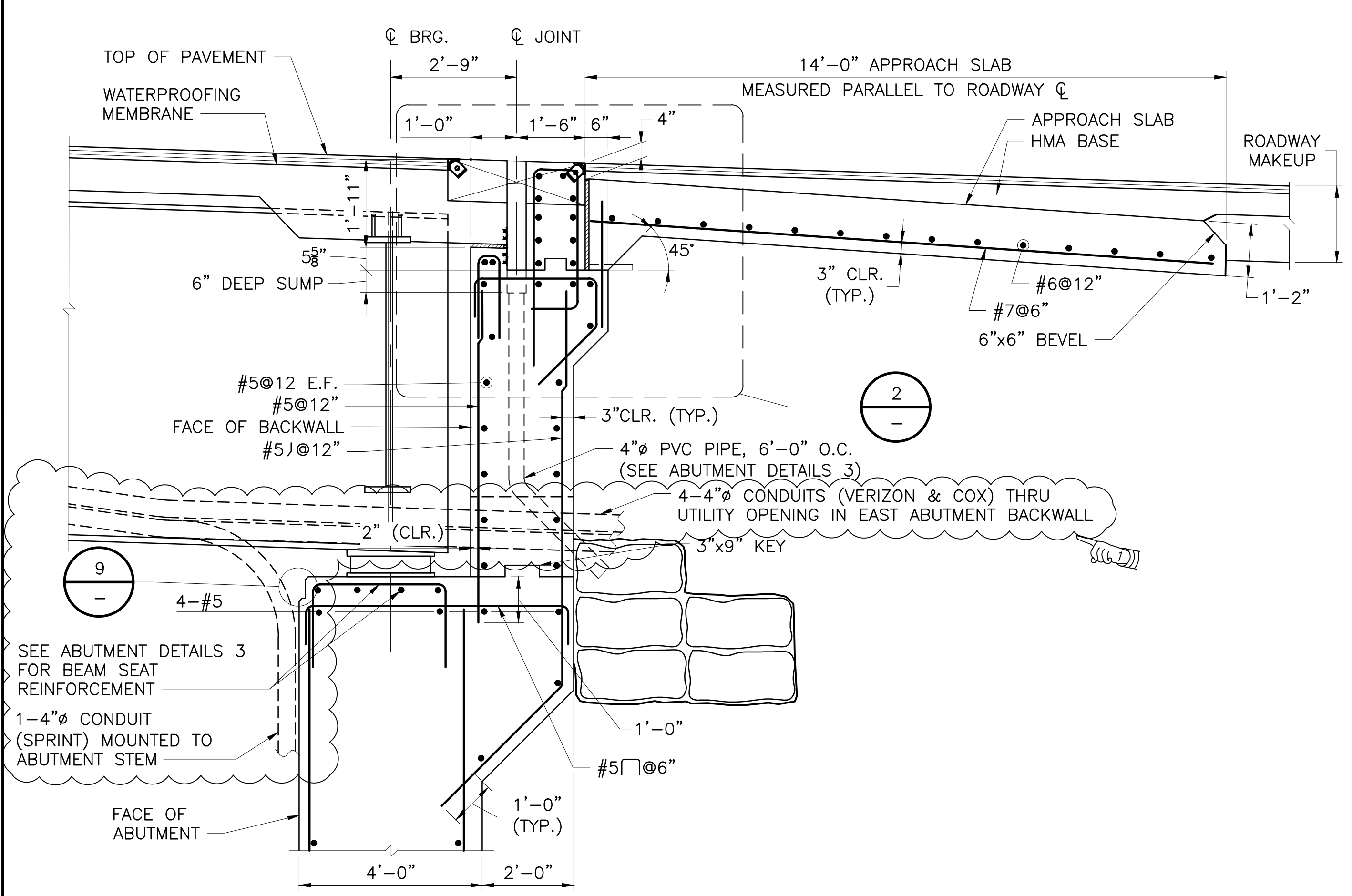
EAST ABUTMENT ELEVATION
 SCALE: 3/16"=1'-0"

REVISIONS		
NO.	DATE	BY
1	5/1/20	VHB

RHODE ISLAND DEPARTMENT OF TRANSPORTATION
BRIDGE GROUP 49 - HENDERSON RECONSTRUCTION OF HENDERSON BRIDGE NO. 600
 PROVIDENCE/EAST PROVIDENCE, RHODE ISLAND

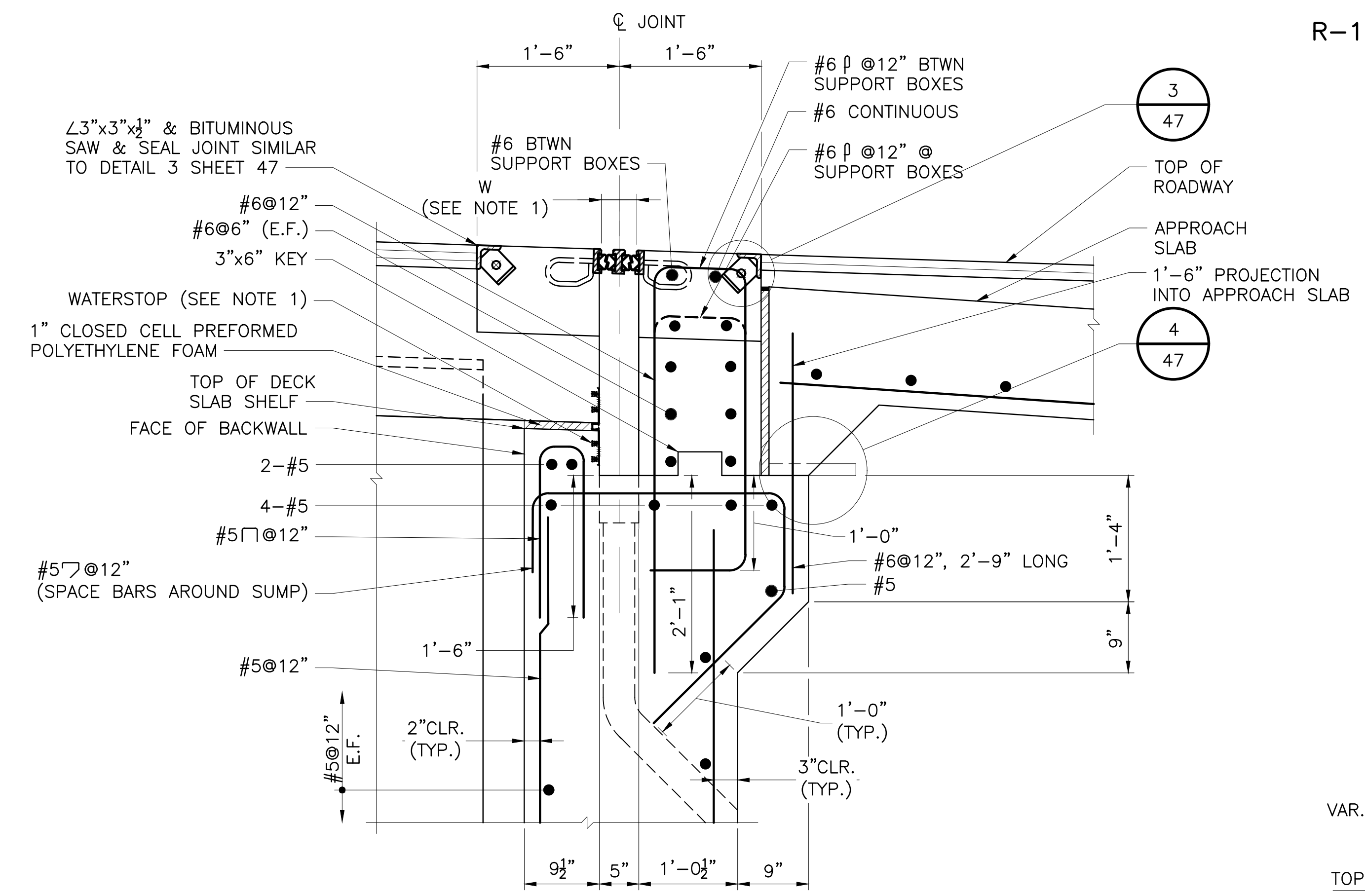
EAST ABUTMENT PLAN AND ELEVATION

CHECKED BY _____ DATE _____ SCALE _____



SECTION THRU ABUTMENT BACKWALL

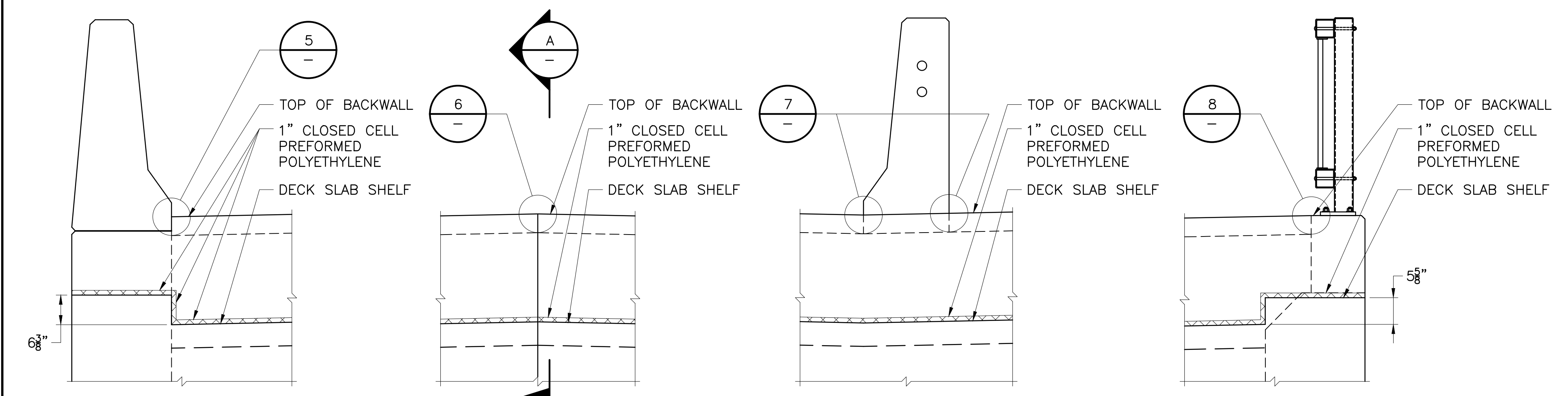
DETAIL 1
 SCALE: 1/2"=1'-0"



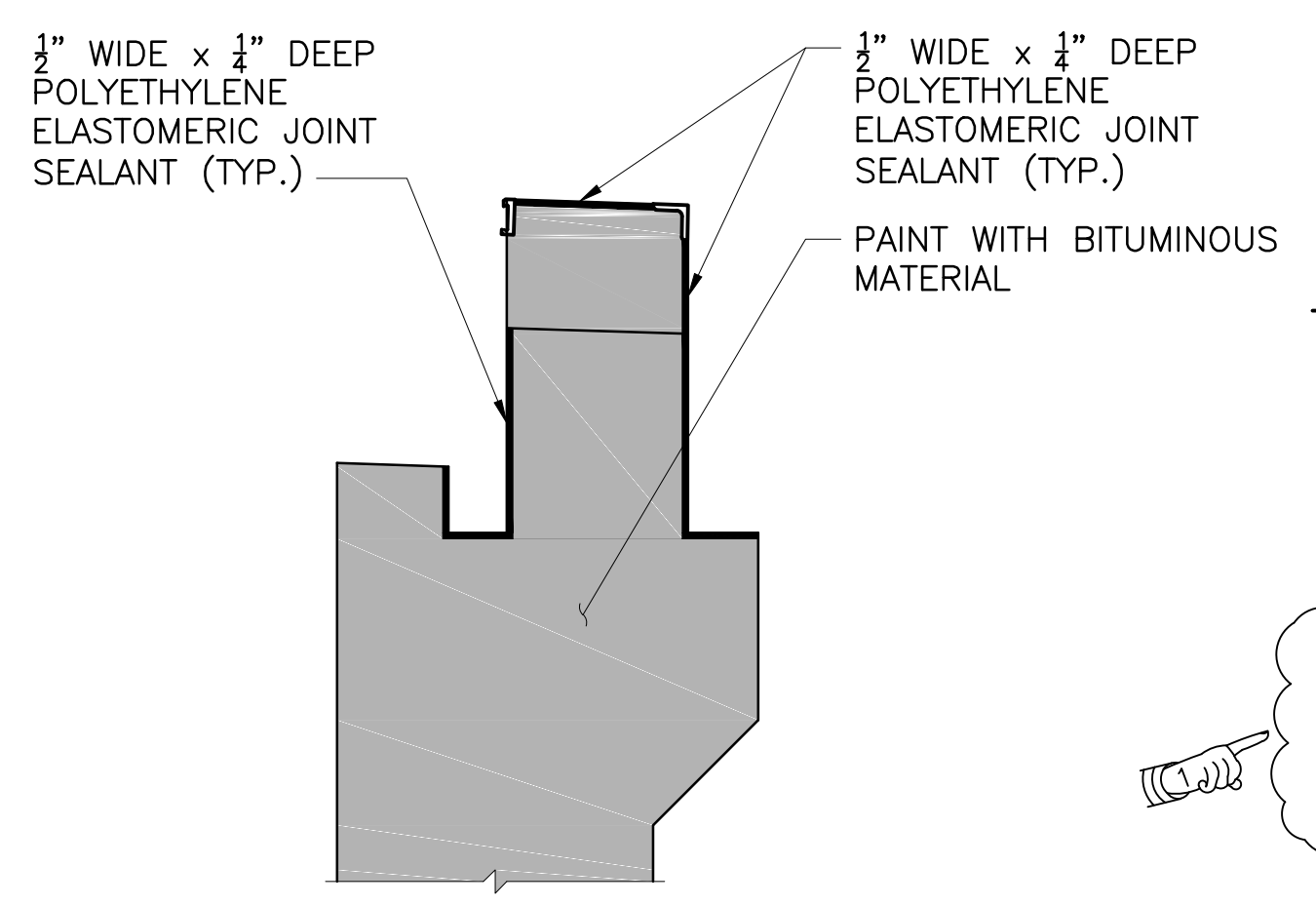
BACKWALL SECTION AT EXPANSION JOINT

DETAIL 2
 SCALE: 1"=1'-0"

DETAIL 9
 SCALE: 3"=1'-0"



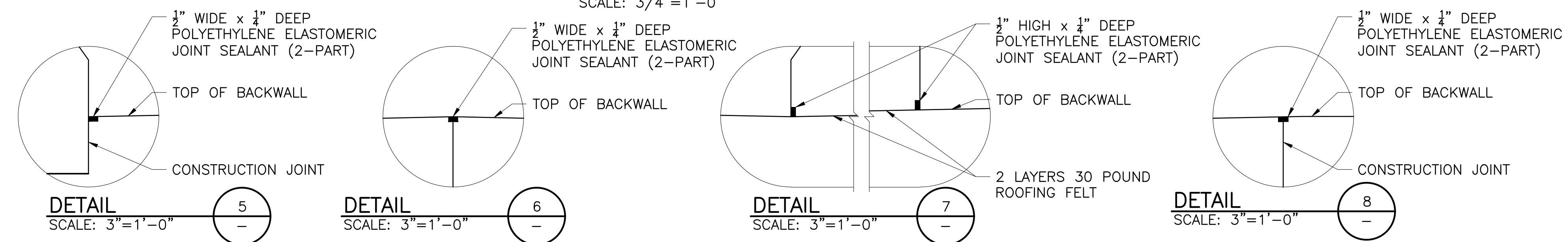
BACKWALL JOINT DETAILS
 SCALE: 3/4"=1'-0"



SECTION A
 SCALE: 3/4"=1'-0"

NOTES

- FOR JOINT WIDTH DIMENSION "W" REFER TO EXPANSION JOINT DETAIL SHEETS. PROVIDE WATERSTOP THAT CAN ACCOMMODATE THE ANTICIPATED DECK MOVEMENT IN ASSOCIATION WITH THE TEMPERATURE ADJUSTMENT TABLE ON EXPANSION JOINT DETAILS 3 SHEET.
- VERIZON, COX AND SPRINT CONDUITS AT EAST ABUTMENT ARE SHOWN IN DETAIL 1 ON THIS SHEET. WEST ABUTMENT SIMILAR EXCEPT ALL 5 CONDUITS EXTEND THRU BACKWALL. FOR BACKWALL UTILITY OPENING DETAILS, SEE ABUTMENT DETAILS 3.



DETAIL 5
 SCALE: 3"=1'-0"

DETAIL 6
 SCALE: 3"=1'-0"

DETAIL 7
 SCALE: 3"=1'-0"

DETAIL 8
 SCALE: 3"=1'-0"

ADDENDUM NO. 4

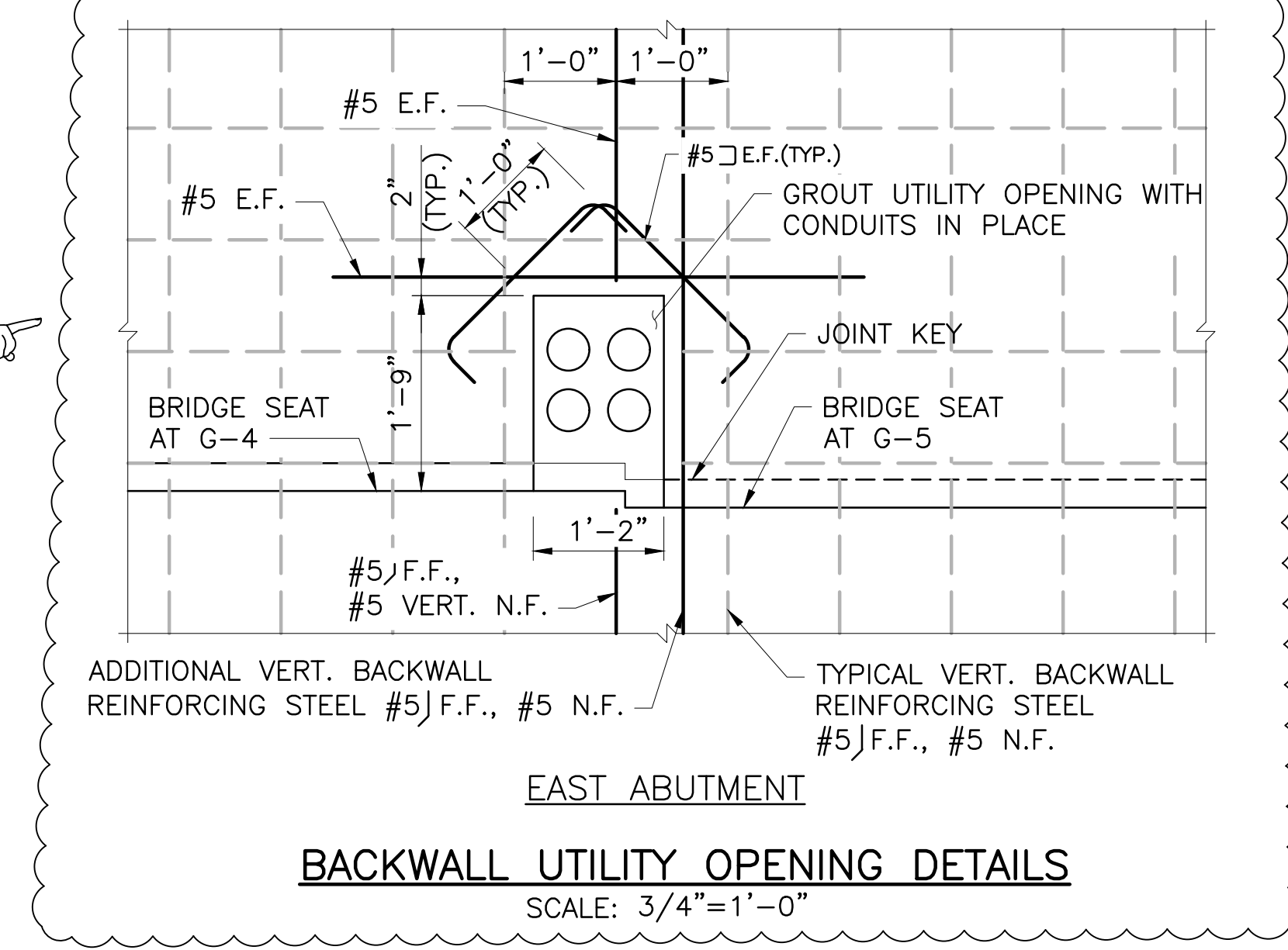
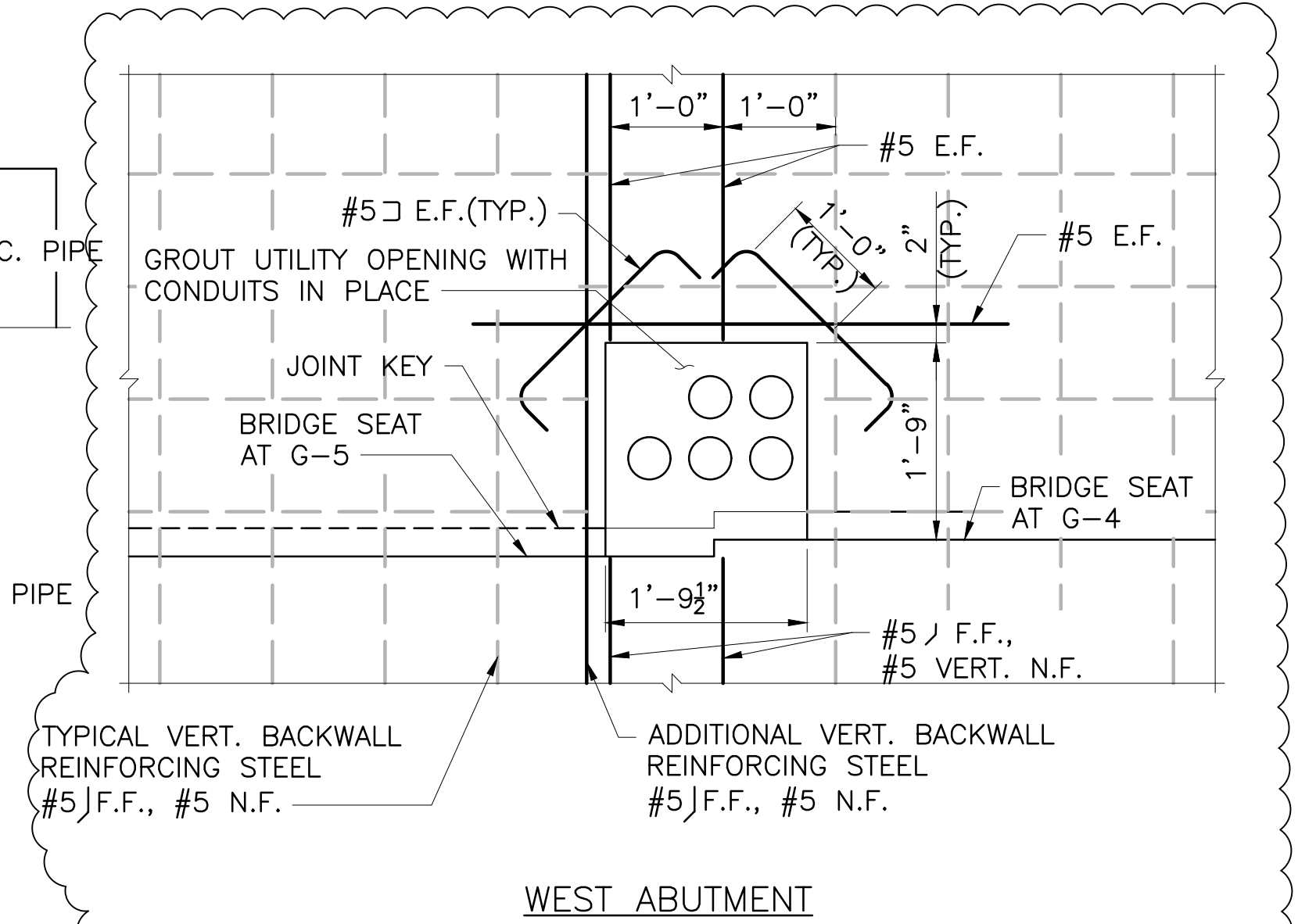
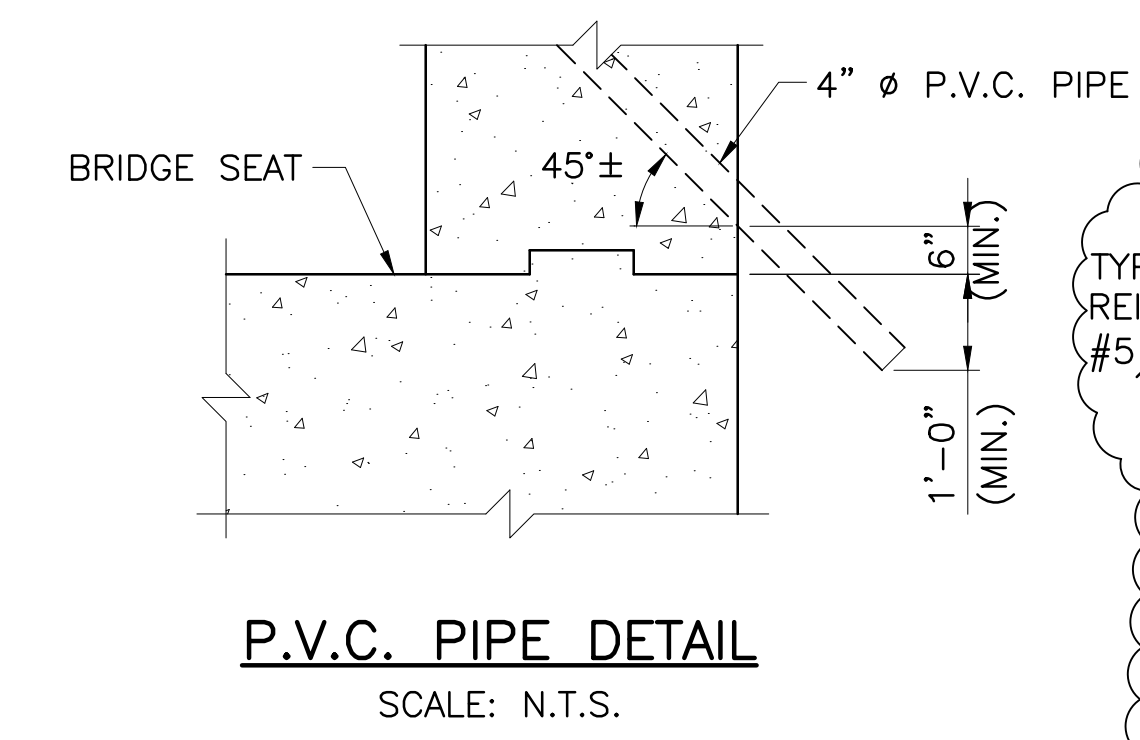
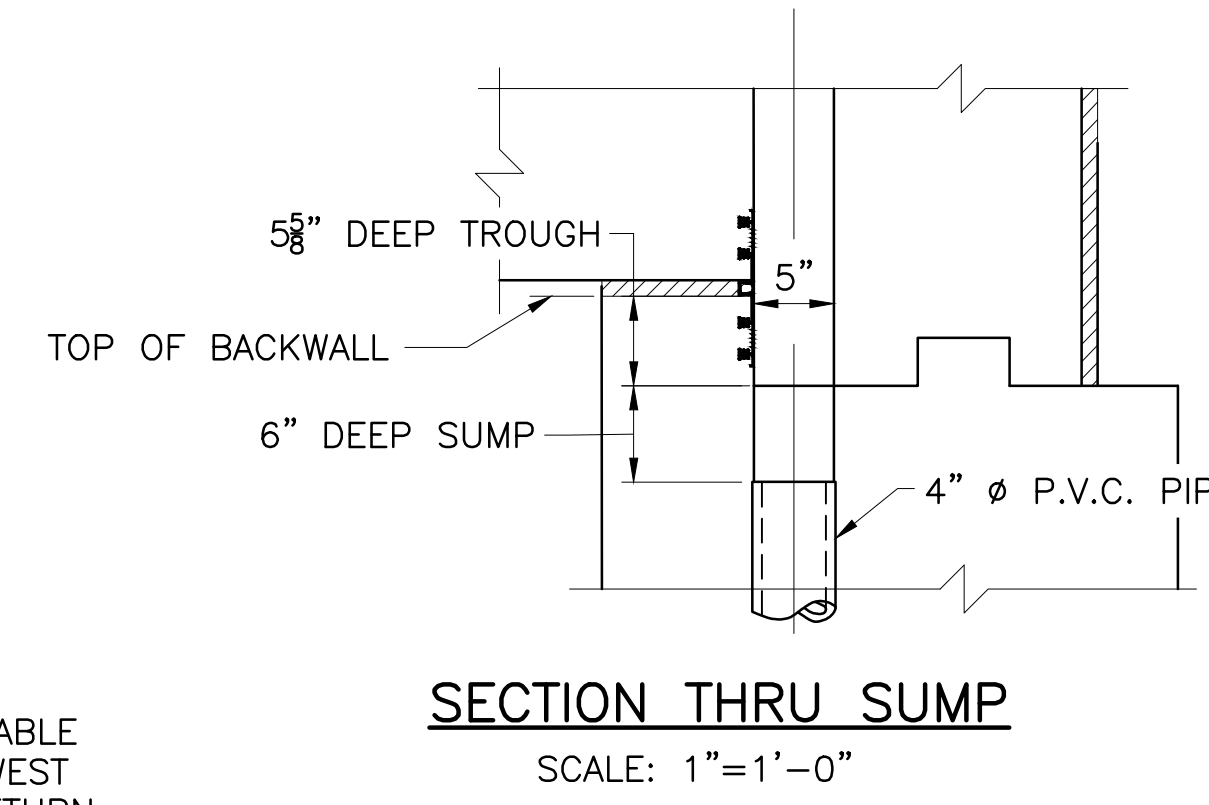
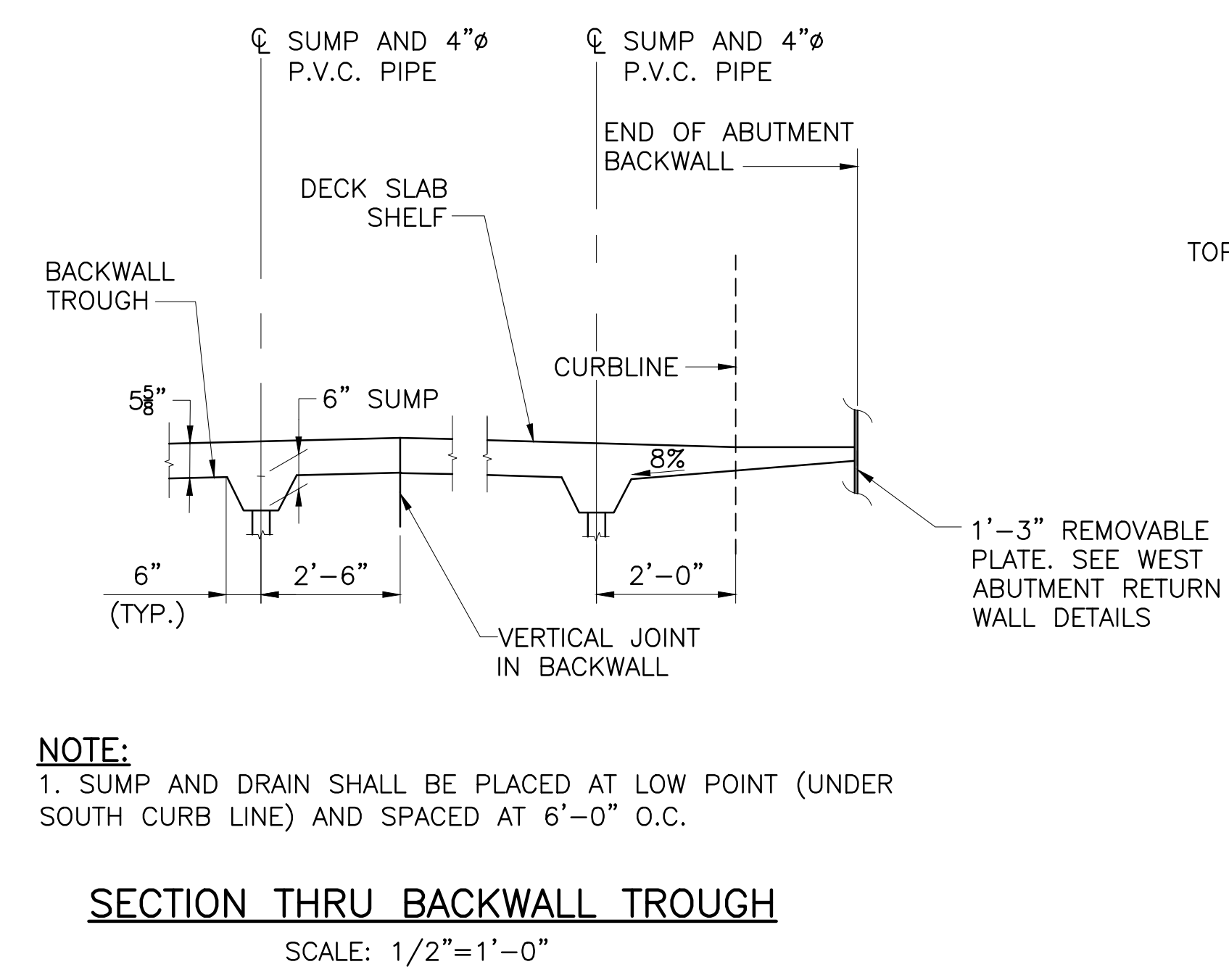
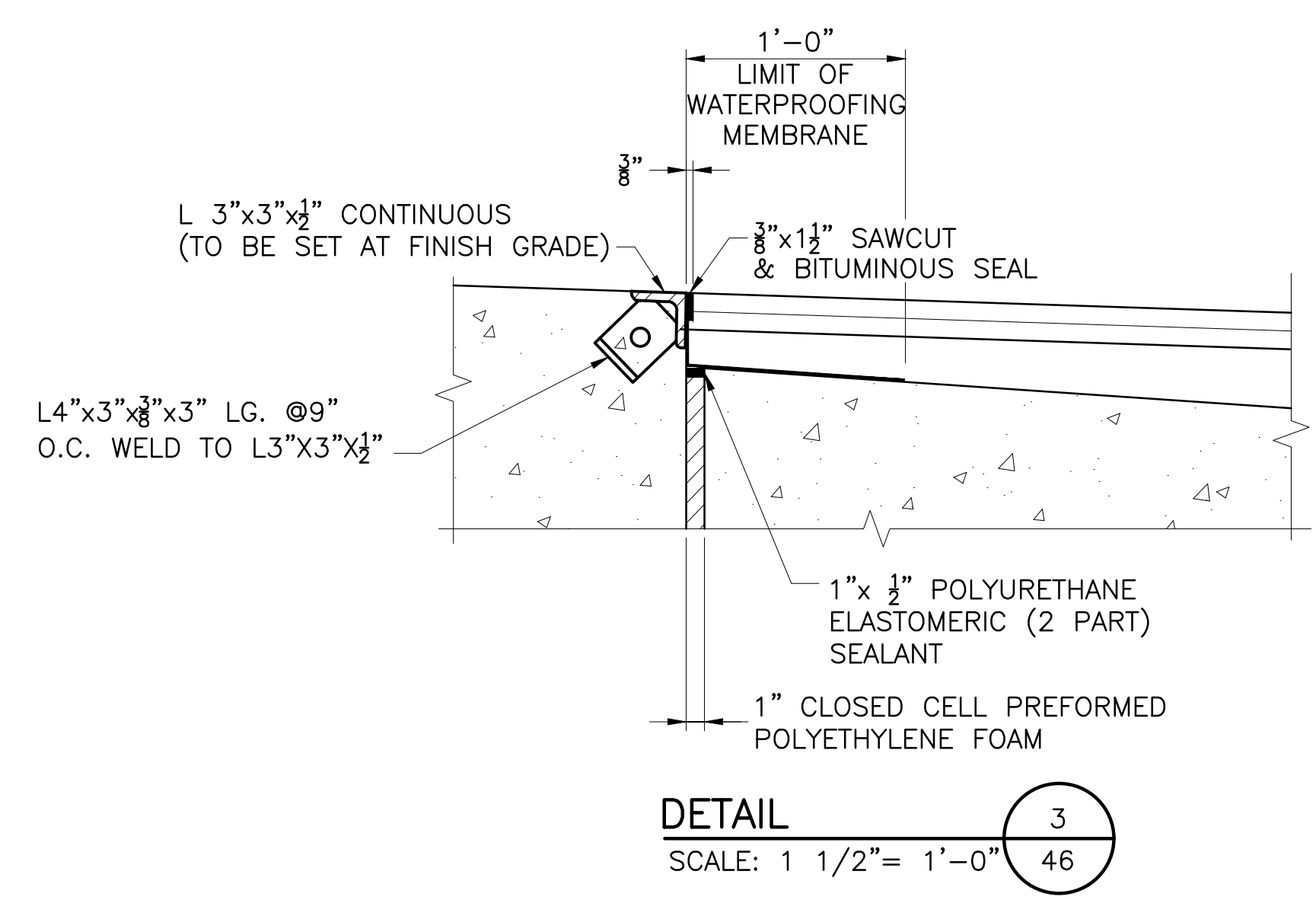


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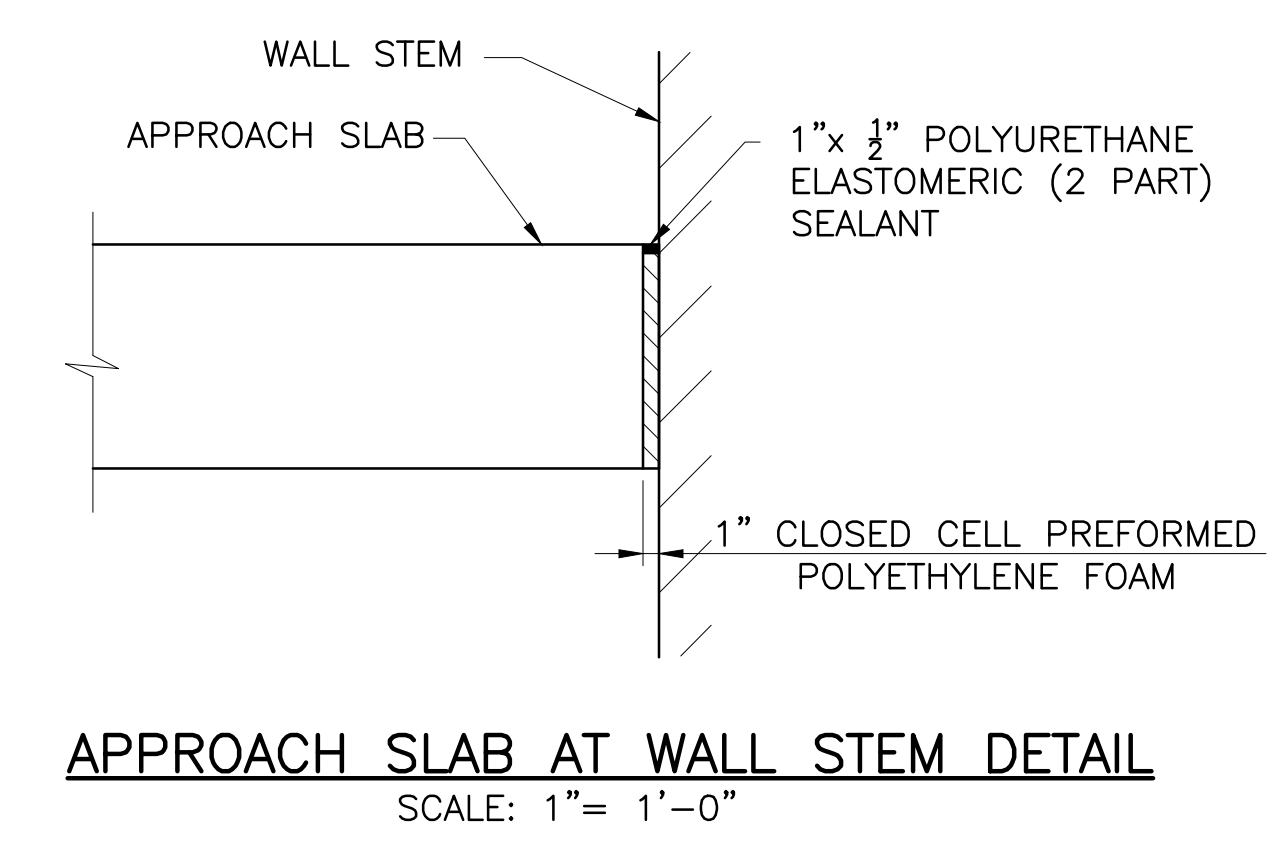
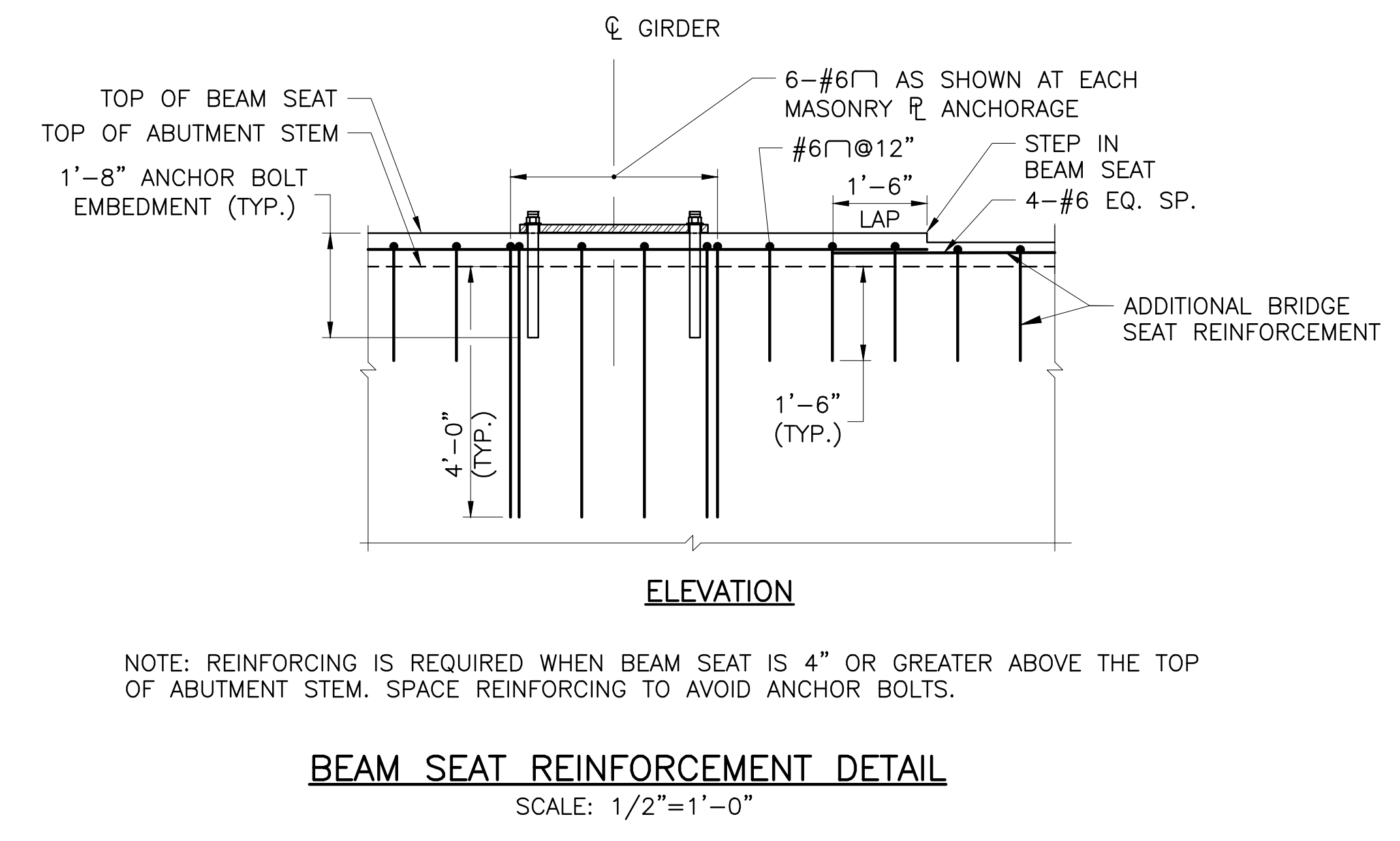
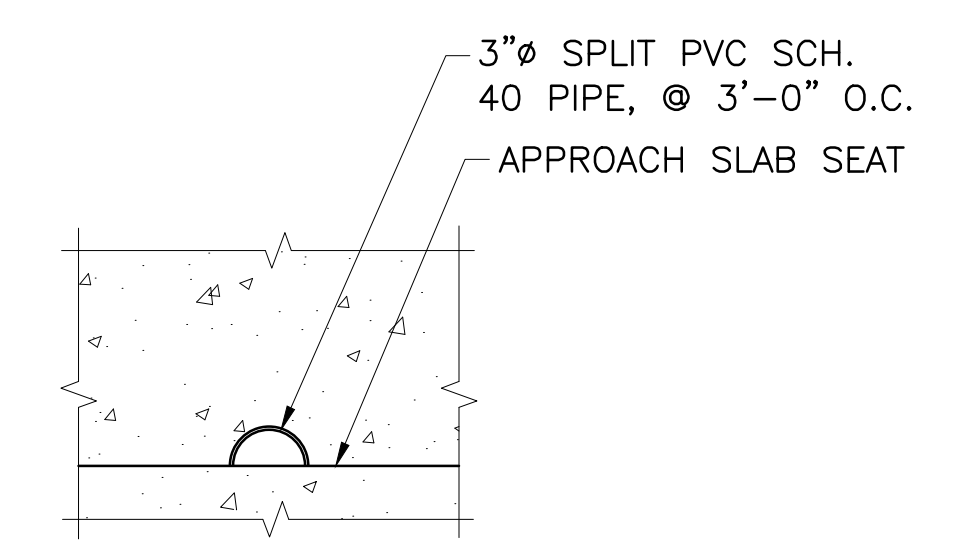
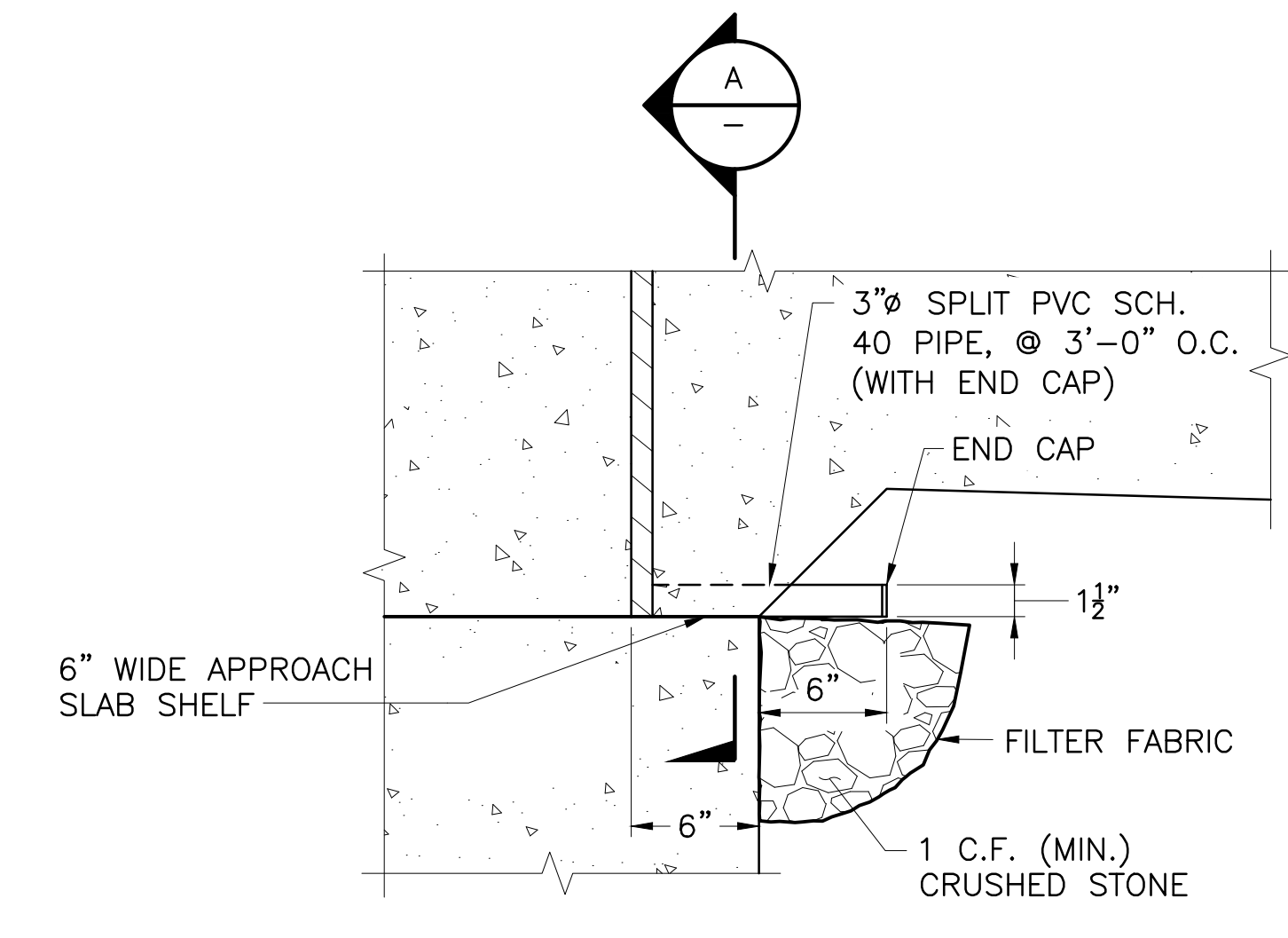
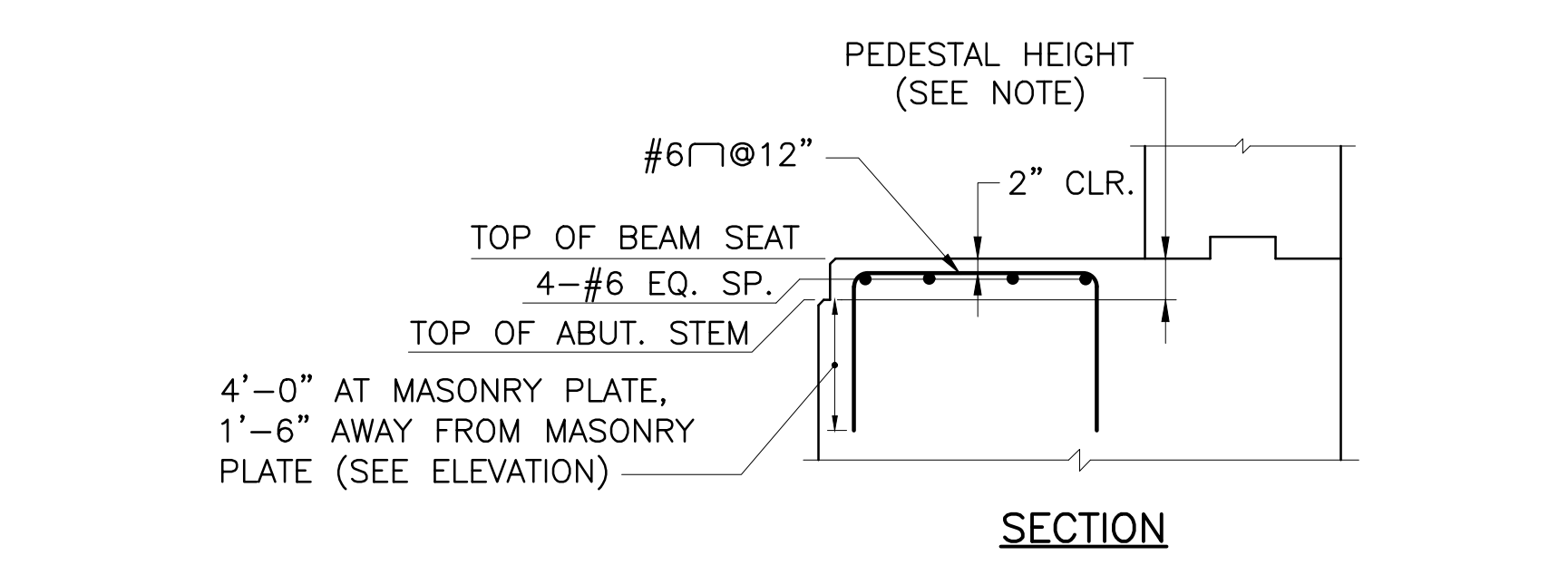
RHODE ISLAND
 DEPARTMENT OF TRANSPORTATION
 BRIDGE GROUP 49 - HENDERSON
 RECONSTRUCTION OF
 HENDERSON BRIDGE NO. 600
 PROVIDENCE/EAST PROVIDENCE, RHODE ISLAND

ABUTMENT DETAILS 2

CHECKED BY _____ DATE _____ SCALE _____



NOTE
 1. GROUT FOR UTILITY OPENING SHALL BE CEMENTITIOUS NON-SHRINK GROUT FROM THE RIDOT APPROVED MATERIALS LIST.

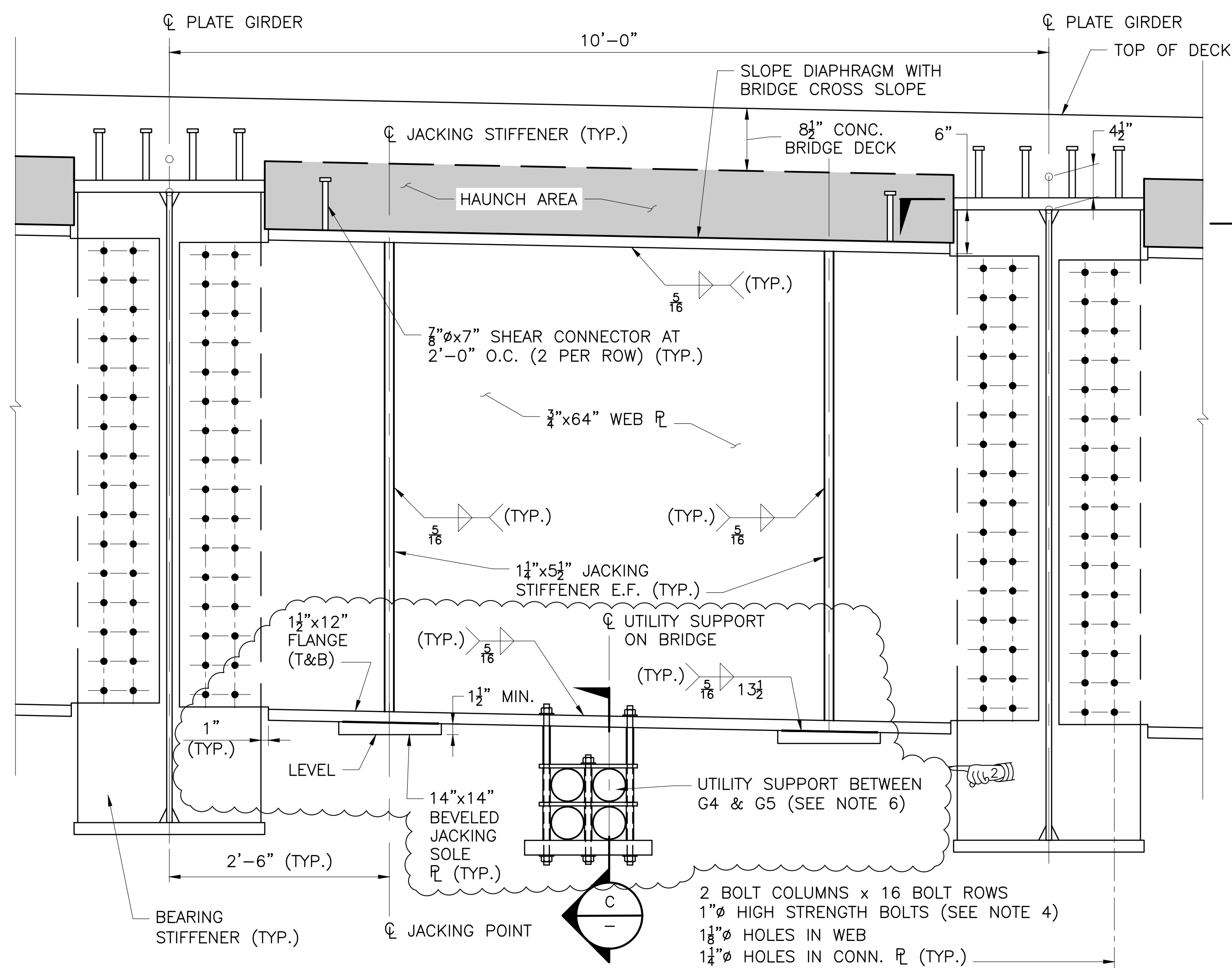


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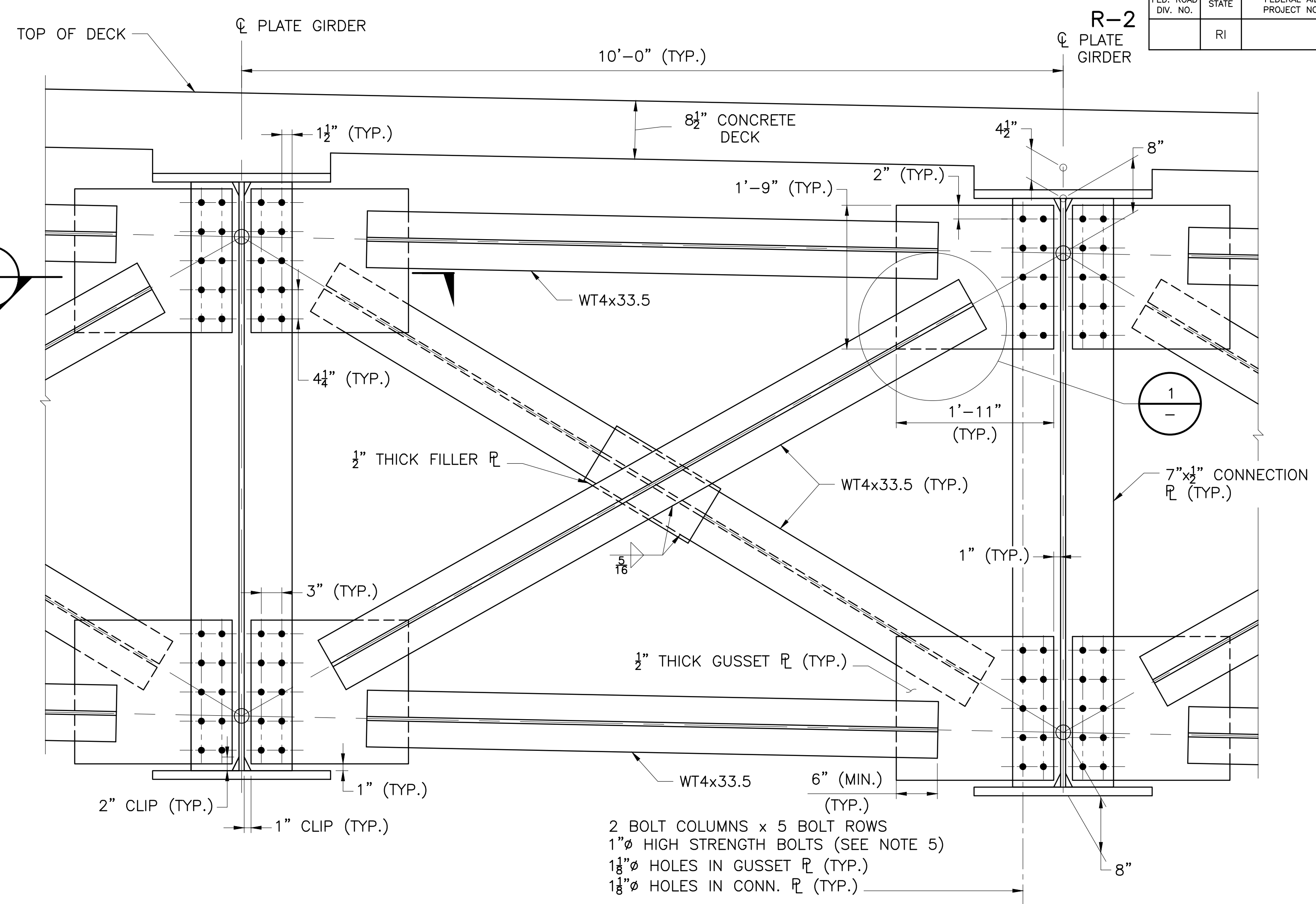
RHODE ISLAND DEPARTMENT OF TRANSPORTATION
BRIDGE GROUP 49 - HENDERSON RECONSTRUCTION OF HENDERSON BRIDGE NO. 600
 PROVIDENCE/EAST PROVIDENCE, RHODE ISLAND

ABUTMENT DETAILS 3

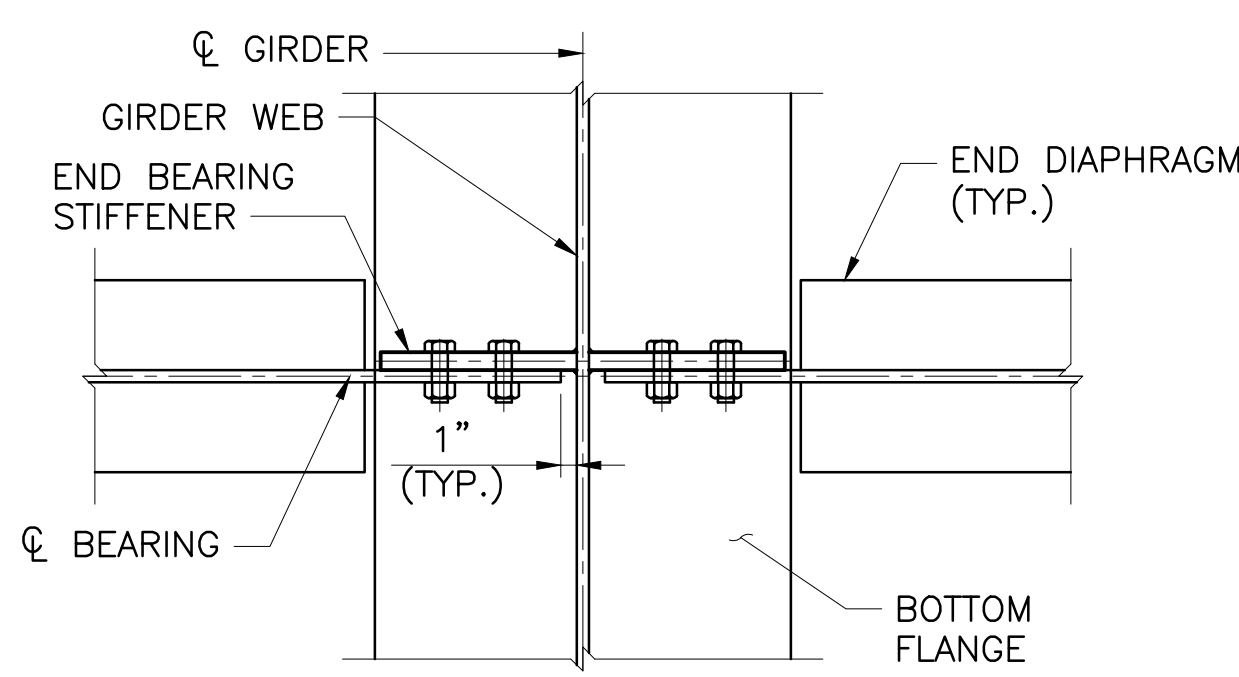
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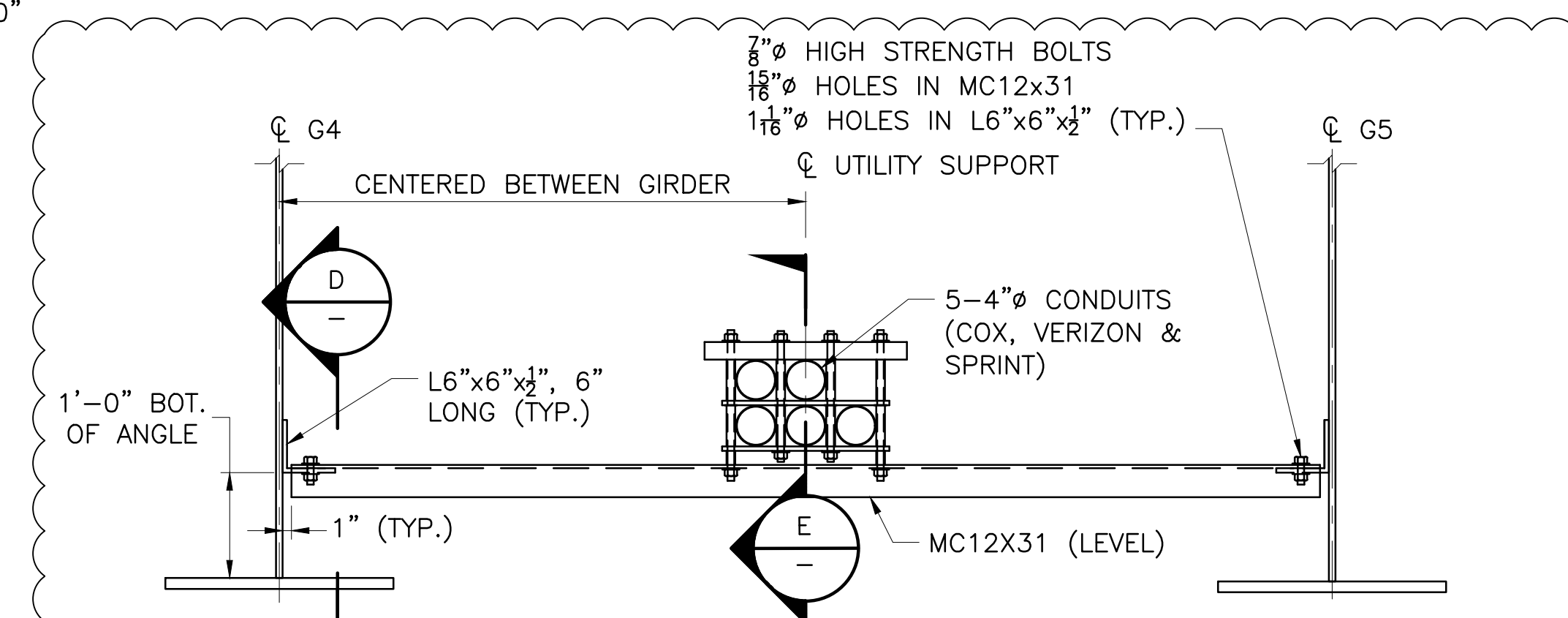
END DIAPHRAGM TYPE D-1
 SCALE: 1"=1'-0"



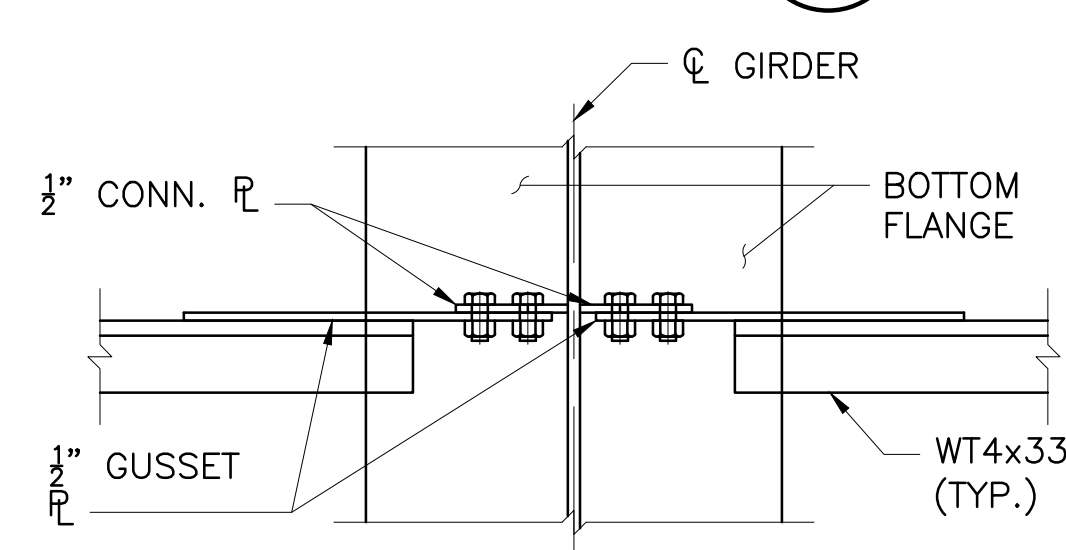
DIAPHRAGM TYPE D-2
 SCALE: 1"=1'-0"



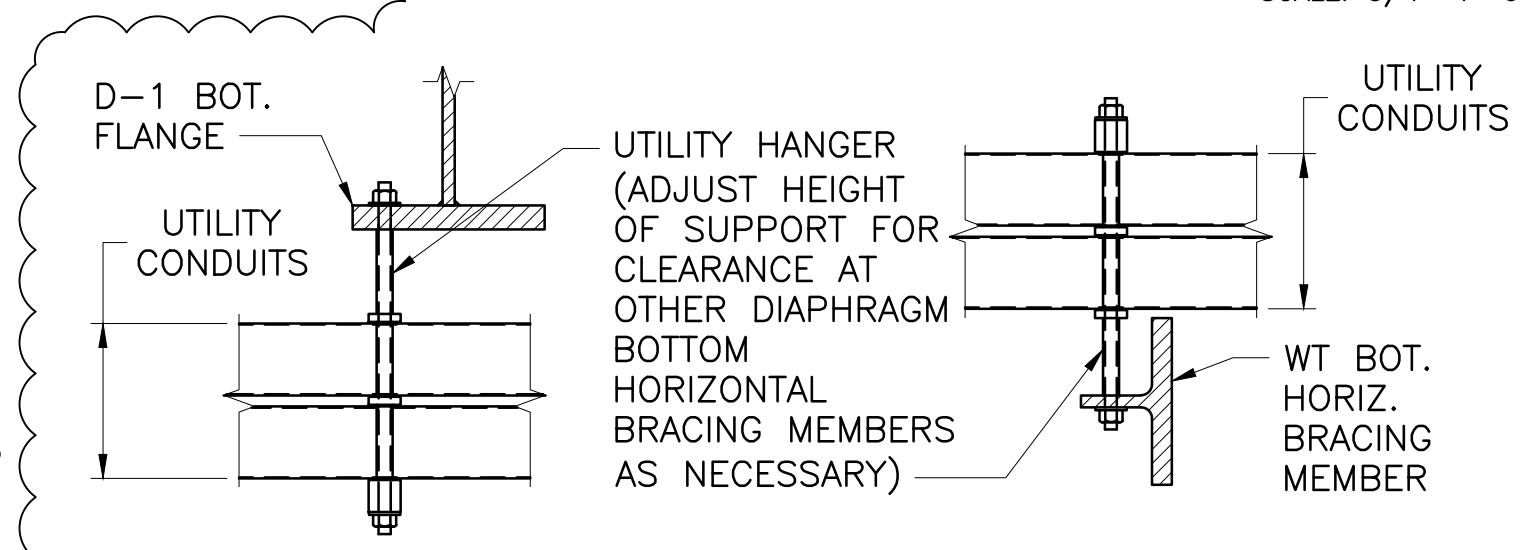
SECTION A
 SCALE: 1"=1'-0"



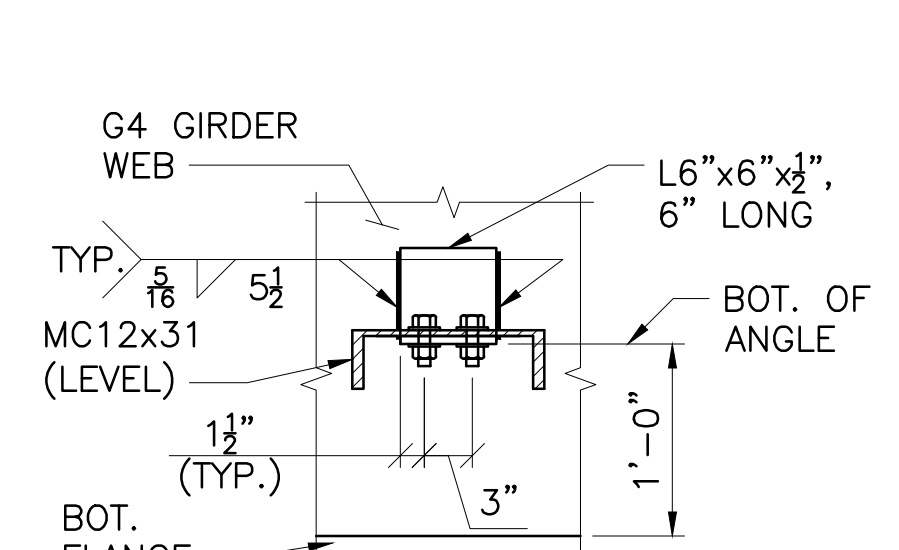
TYPICAL UTILITY SUPPORT (D-6)
 SCALE: 3/4"=1'-0"



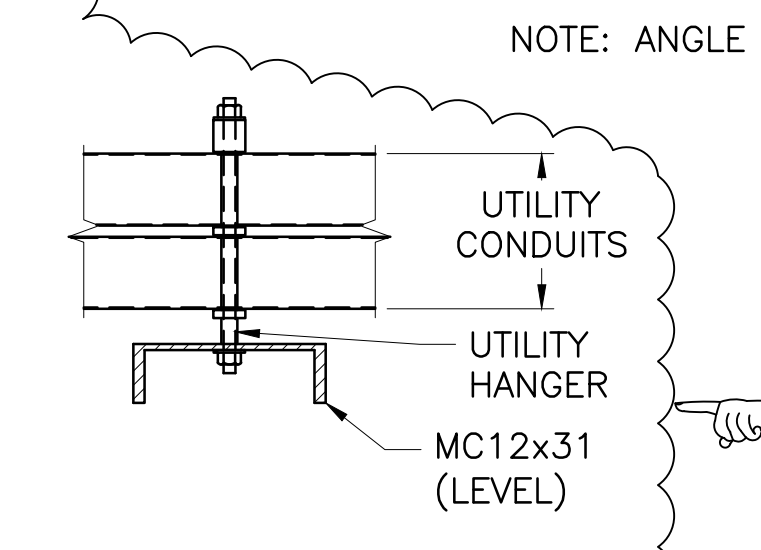
SECTION B
 SCALE: 1"=1'-0"



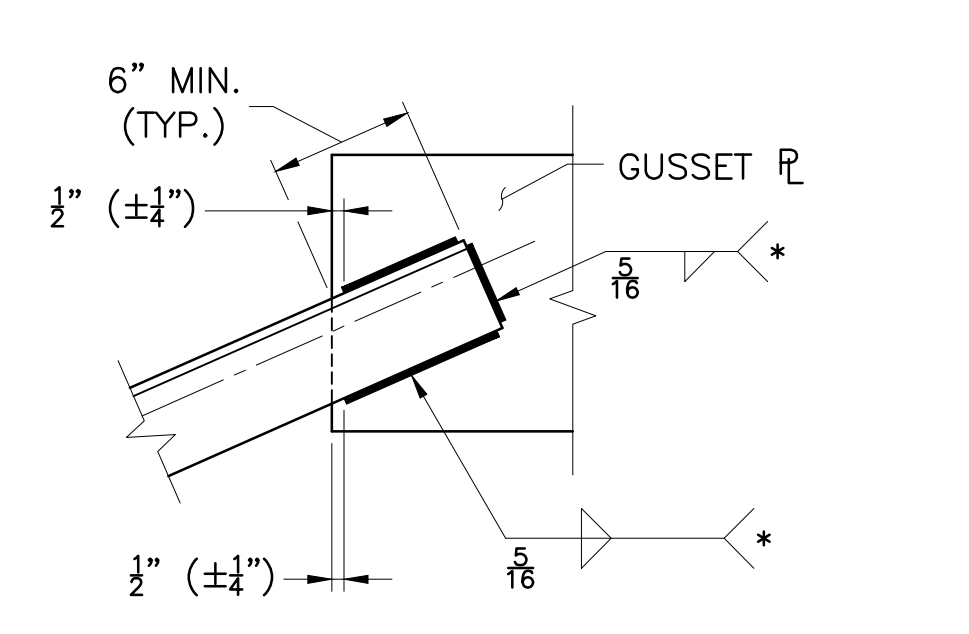
SECTION C
 SCALE: 1"=1'-0"



SECTION D
 SCALE: 1"=1'-0"



SECTION E
 SCALE: 1"=1'-0"



DETAIL
 SCALE: N.T.S.

* WELDS SHALL END 1/4" (± 1/8") AT END CORNERS OF THE CROSS FRAME BRACING MEMBERS.

NOTE: ANGLE SHOWN. WT. SIMILAR.

NOTES

1. THE END DIAPHRAGMS ARE TO FOLLOW THE CROSS SLOPE OF THE ROADWAY. BEVEL JACKING SOLE PLATE SO THAT BOTTOM OF PLATE IS LEVEL.
2. REFER TO STEEL DETAILS 4 FOR END DIAPHRAGM JACKING STIFFENER CLIP AND WELD DETAILS.
3. LOCATIONS OF HOLES IN CONNECTION PLATES SHALL BE DETERMINED BY THE FABRICATOR.
4. BOLTS FOR END DIAPHRAGMS SHALL BE HIGH STRENGTH BOLTS ASTM F3125, GRADE A325, TYPE 1. NUTS AND WASHERS USED WITH TYPE 1 BOLTS SHALL BE GALVANIZED IN ACCORDANCE WITH M.05.04.4
5. ALL OTHER BOLTS SHALL BE HIGH STRENGTH BOLTS, ASTM F3125 GRADE A325, TYPE 3. NUTS SHALL BE OF GRADE C3 OR DH3 IN ACCORDANCE WITH M.05.04.4 OF THE RI STANDARD SPECIFICATIONS.
6. UTILITY SUPPORT ATTACHED TO THE D-1 END DIAPHRAGM SHALL SUPPORT (5)-4" CONDUITS (COX, VERIZON & SPRINT) AT THE WEST ABUTMENT AND SUPPORT (4)-4" CONDUITS (COX & VERIZON) AT THE EAST ABUTMENT.

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1	3/24/20	VHB
2	5/1/20	VHB

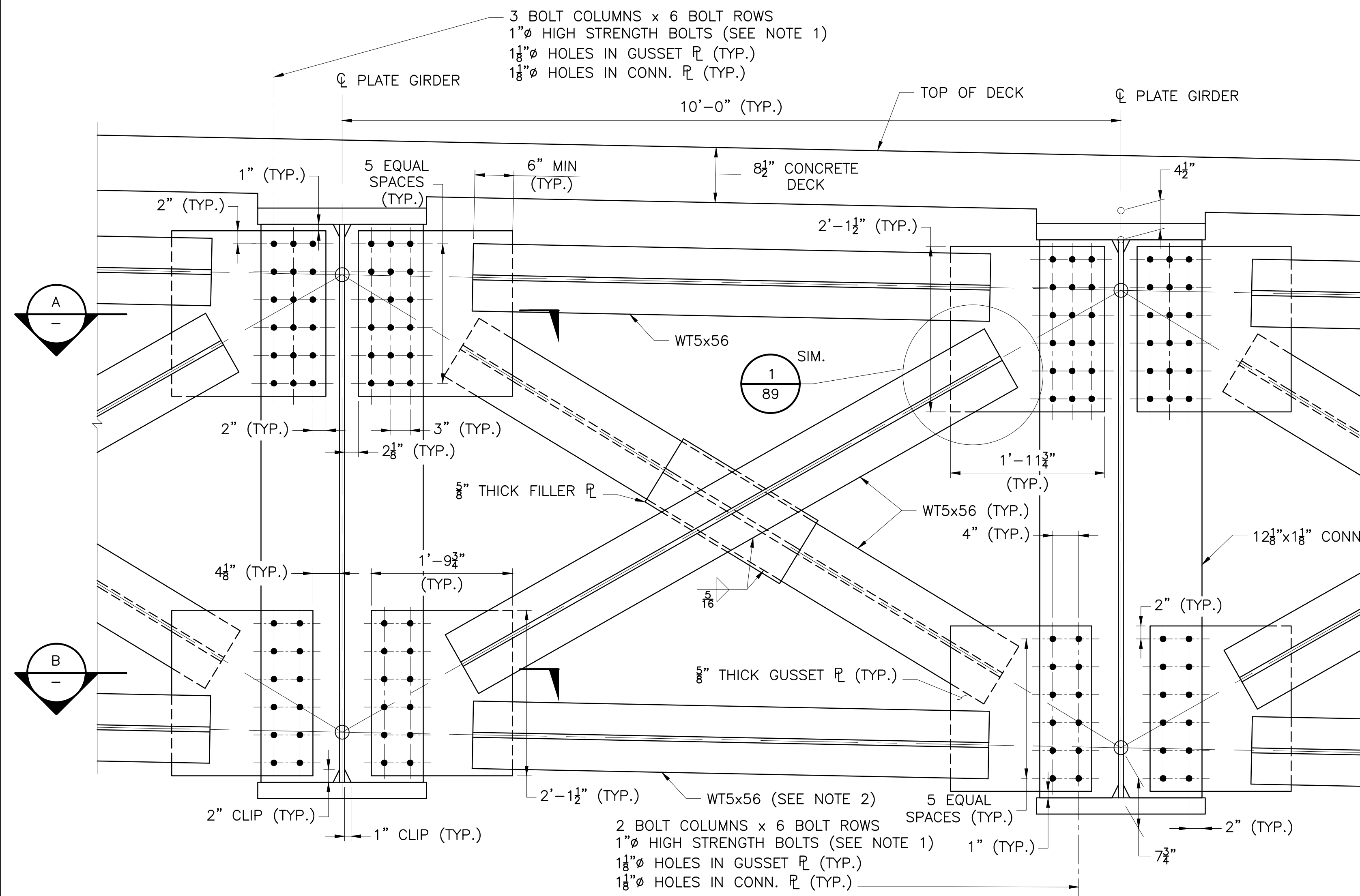
RHODE ISLAND
DEPARTMENT OF TRANSPORTATION

BRIDGE GROUP 49 - HENDERSON
RECONSTRUCTION OF
HENDERSON BRIDGE NO. 600
 PROVIDENCE/EAST PROVIDENCE, RHODE ISLAND

STEEL DETAILS 1

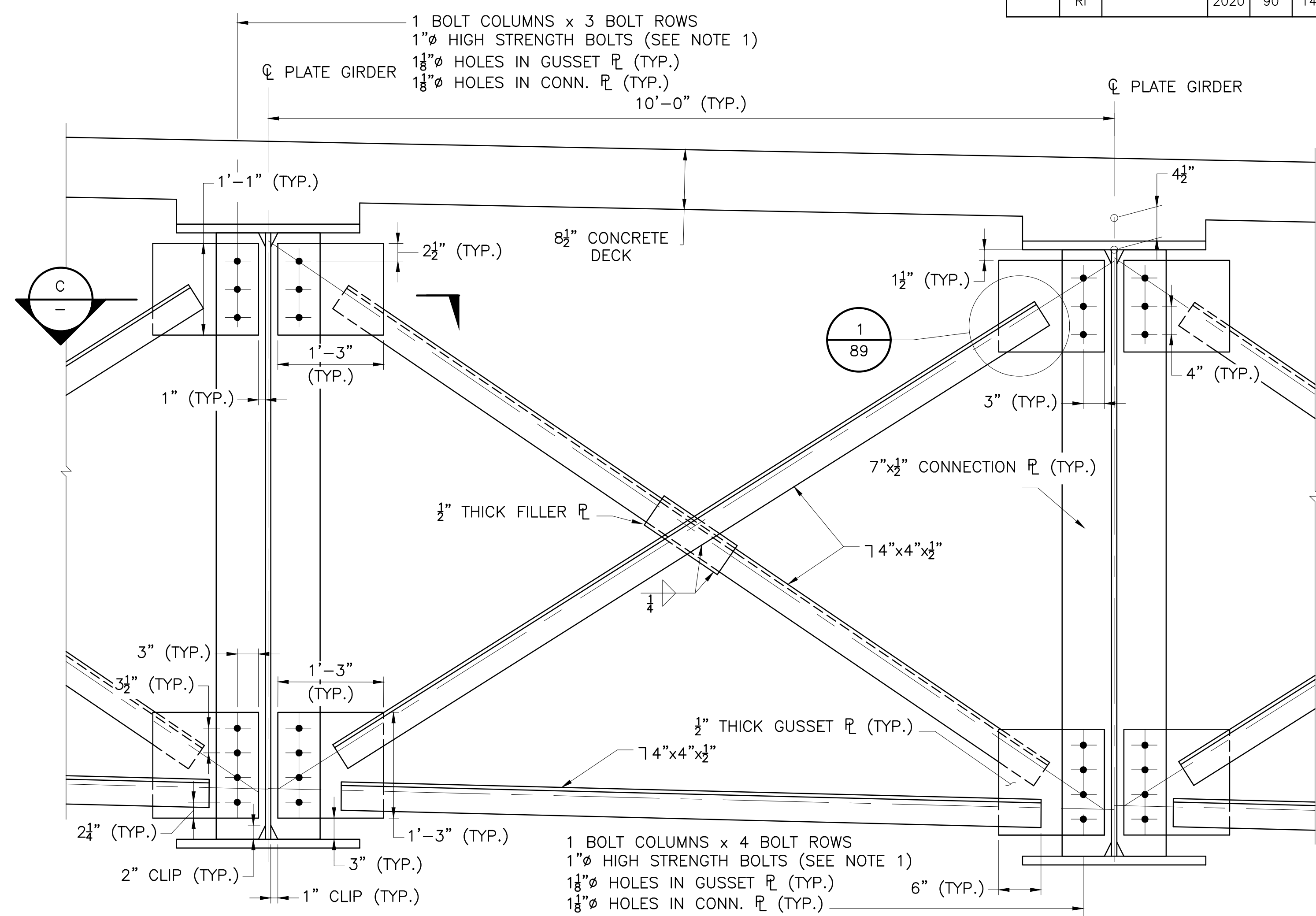
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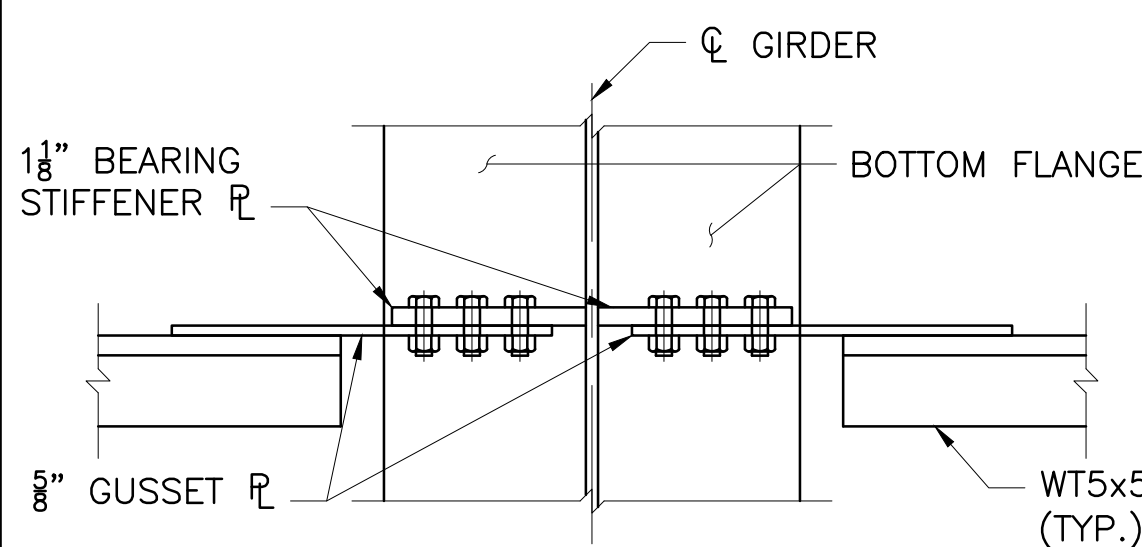
DIAPHRAGM TYPE D-3

SCALE: 1"=1'-0"

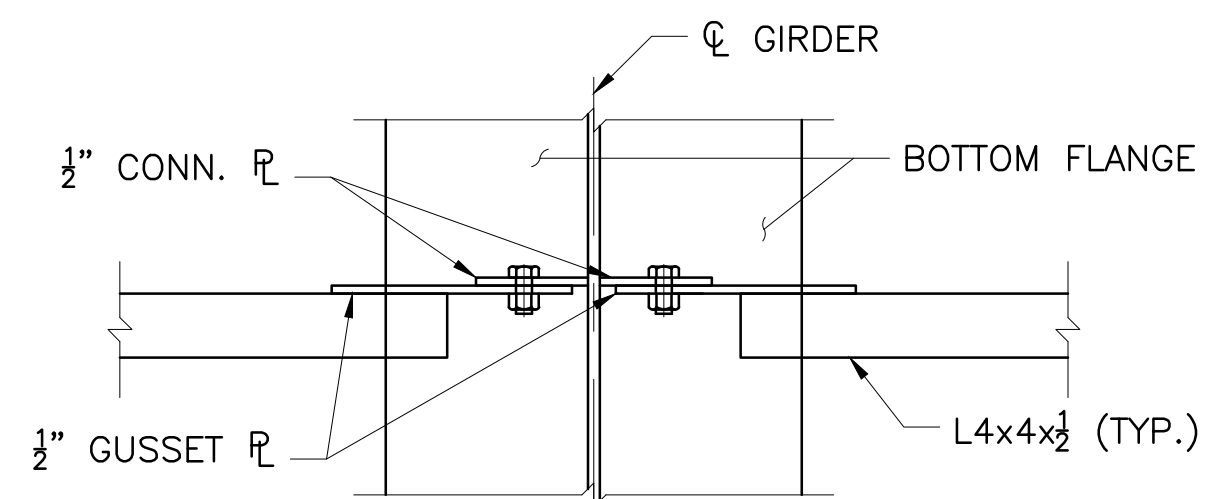


DIAPHRAGM TYPE D-4

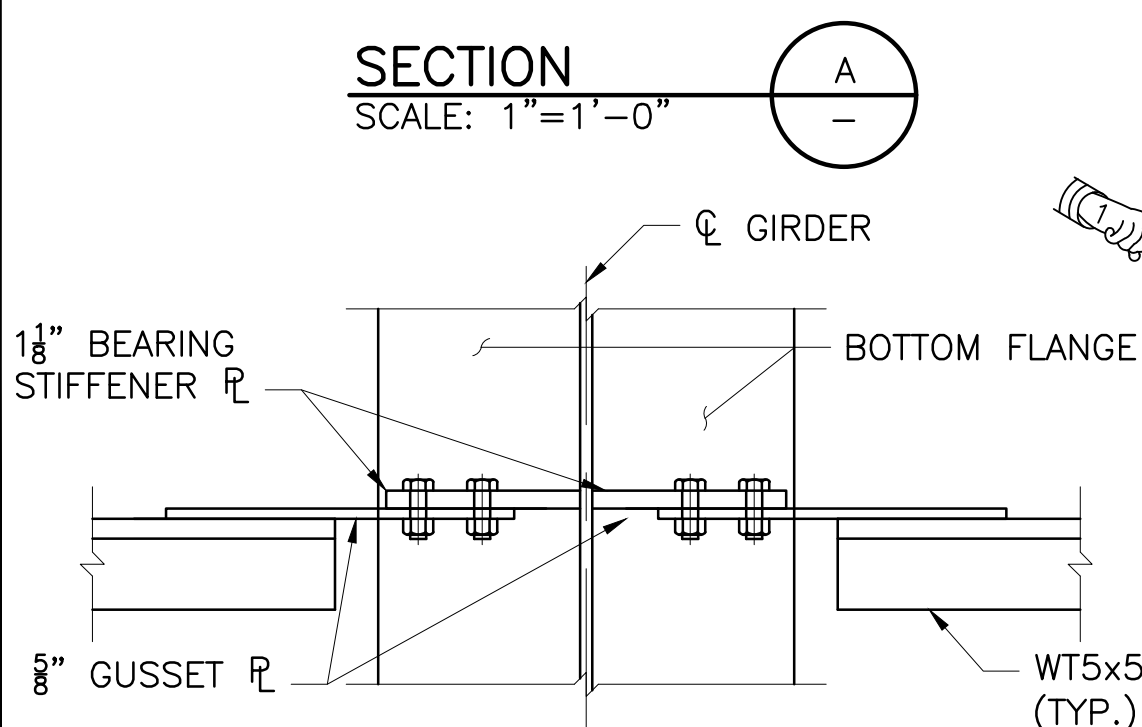
SCALE: 1"=1'-0"



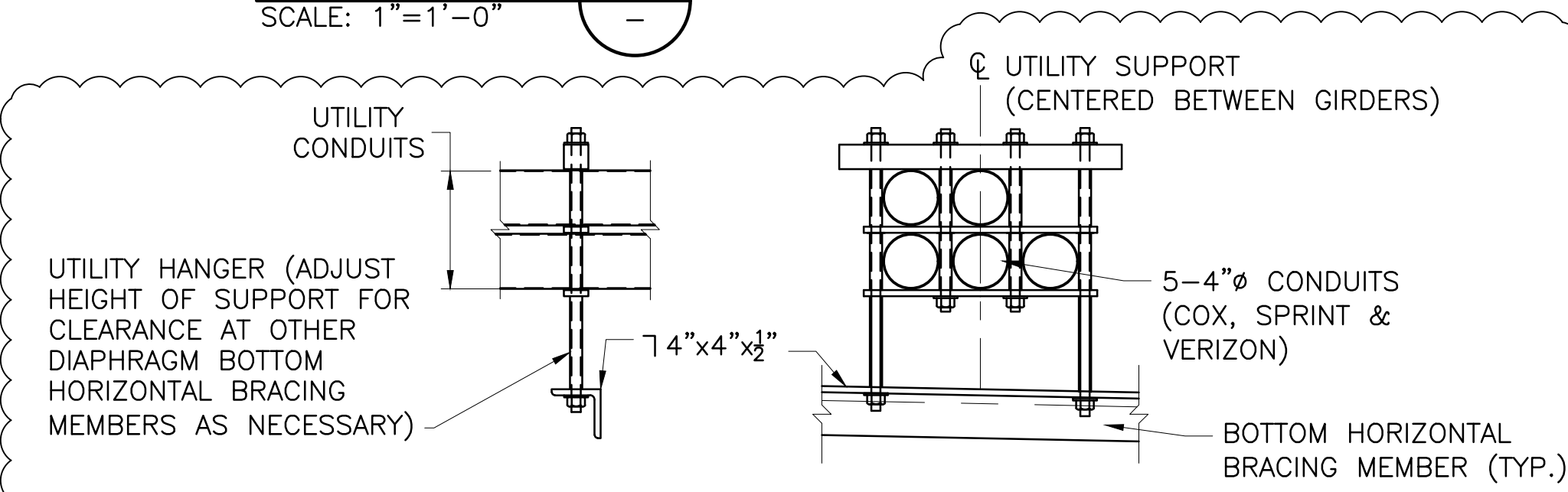
SECTION A
SCALE: 1"=1'-0"



SECTION C
SCALE: 1"=1'-0"



SECTION B
SCALE: 1"=1'-0"



TYPICAL UTILITY SUPPORT AT (D-4)
SCALE: 1"=1'-0"

NOTES

- REFER TO STEEL DETAILS 1 FOR NOTES ON FASTENER TYPES IN DIAPHRAGMS.
- FOR UTILITY SUPPORT DETAIL AT BOTTOM HORIZONTAL WT MEMBER ON D-3, SEE STEEL DETAILS 1.

ADDENDUM NO. 4

vhb
1 Cedar Street
Suite 400
Providence, RI 02903
401.272.8100

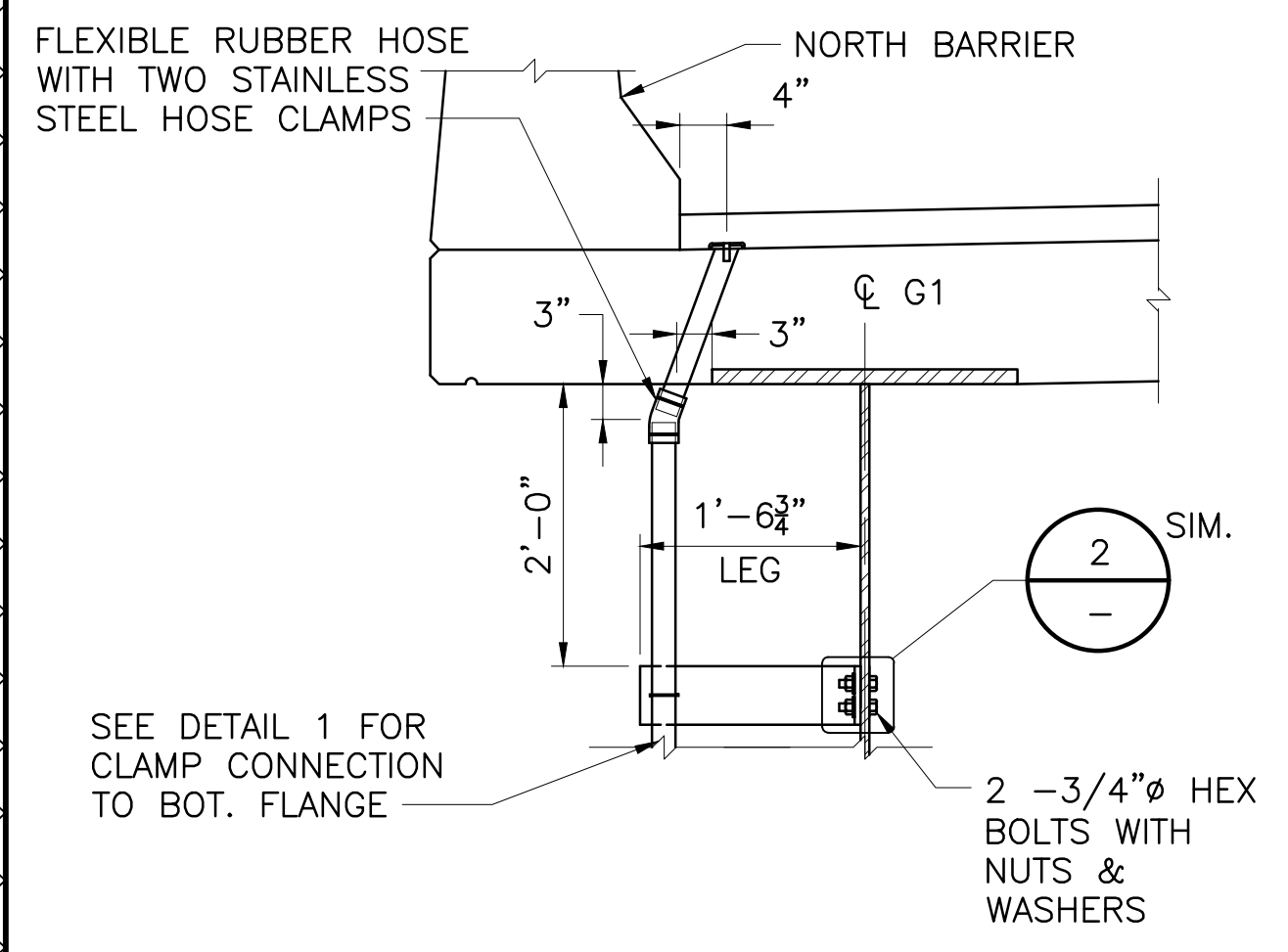
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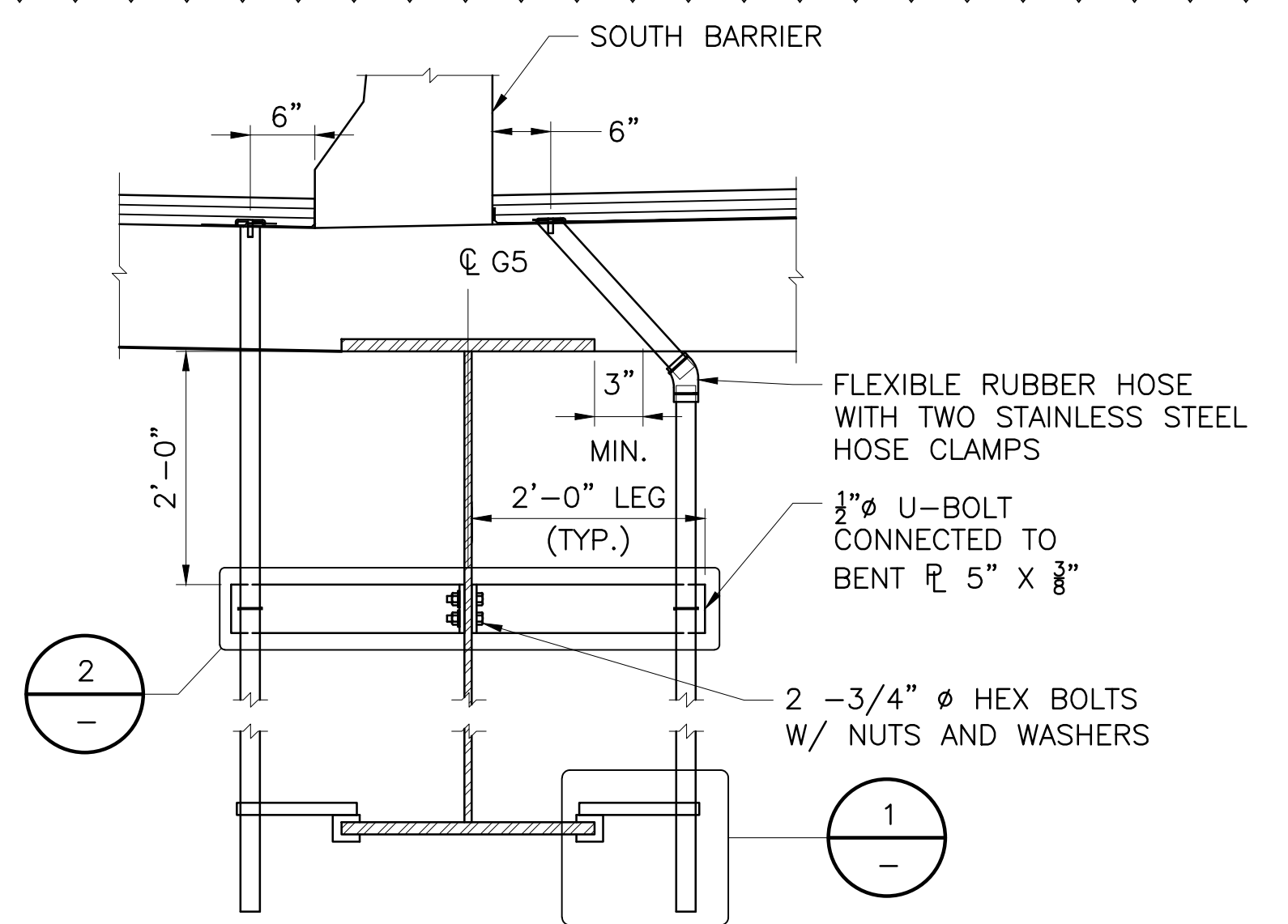
BRIDGE GROUP 49 - HENDERSON
RECONSTRUCTION OF
HENDERSON BRIDGE NO. 600
PROVIDENCE/EAST PROVIDENCE, RHODE ISLAND

STEEL DETAILS 2

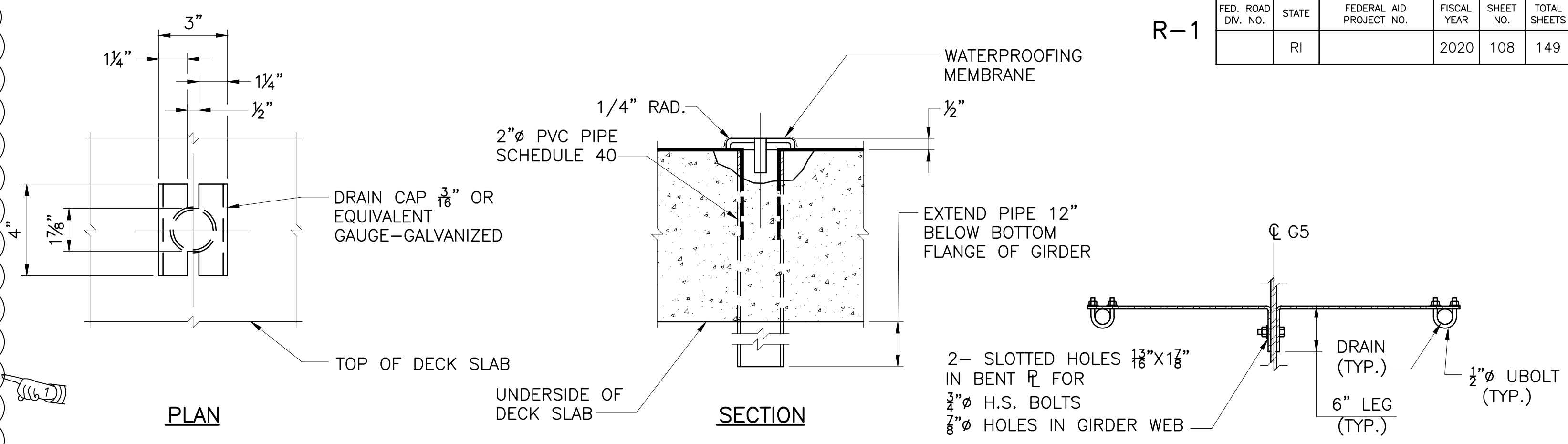
CHECKED BY _____ DATE _____ SCALE _____



SUBPAVEMENT DRAIN TREATMENT AT NORTH CURBLINE
 SCALE: 3/4"=1'-0"

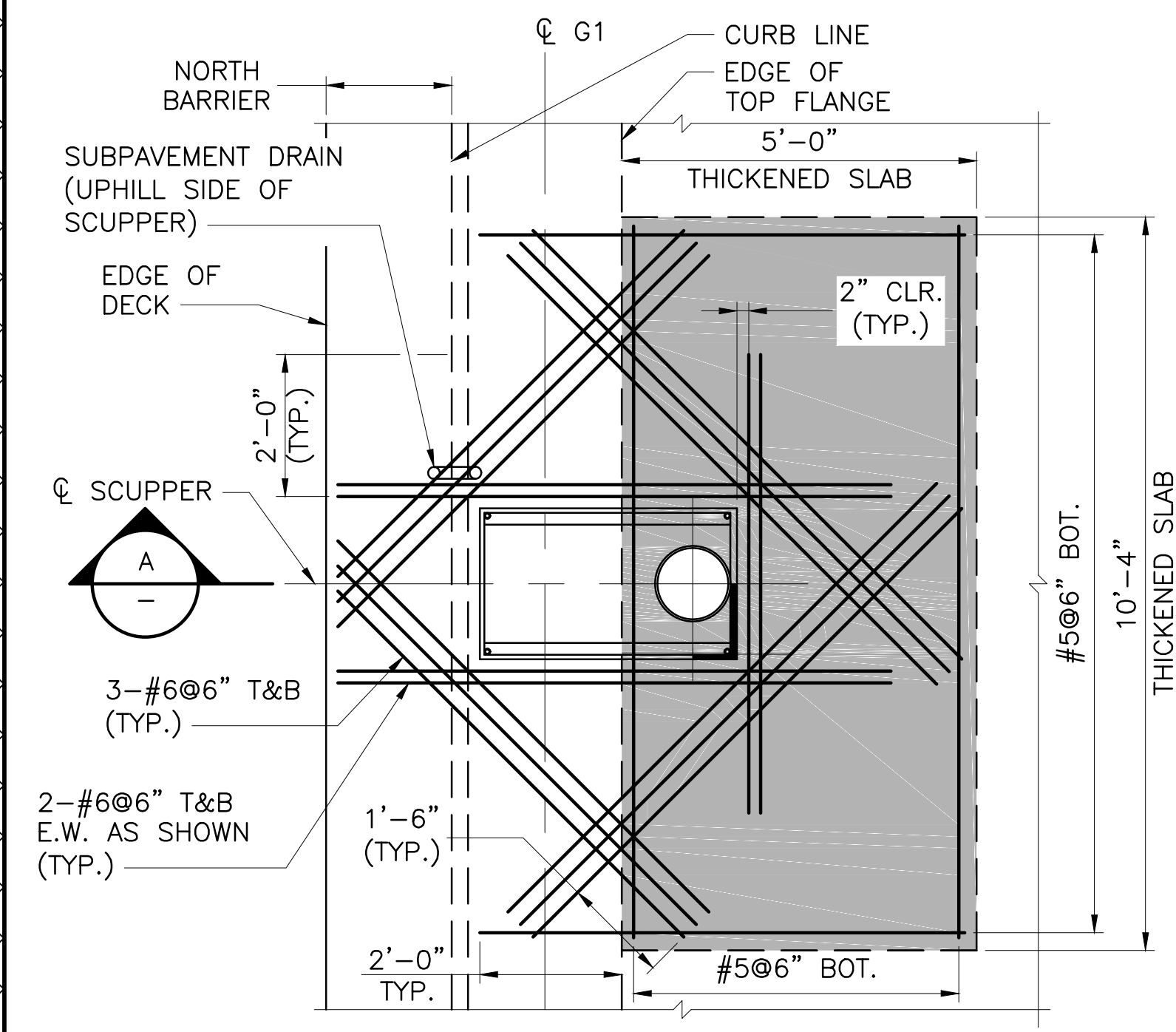


SUBPAVEMENT DRAIN SUPPORTS AT SOUTH BARRIER
 NOT TO SCALE

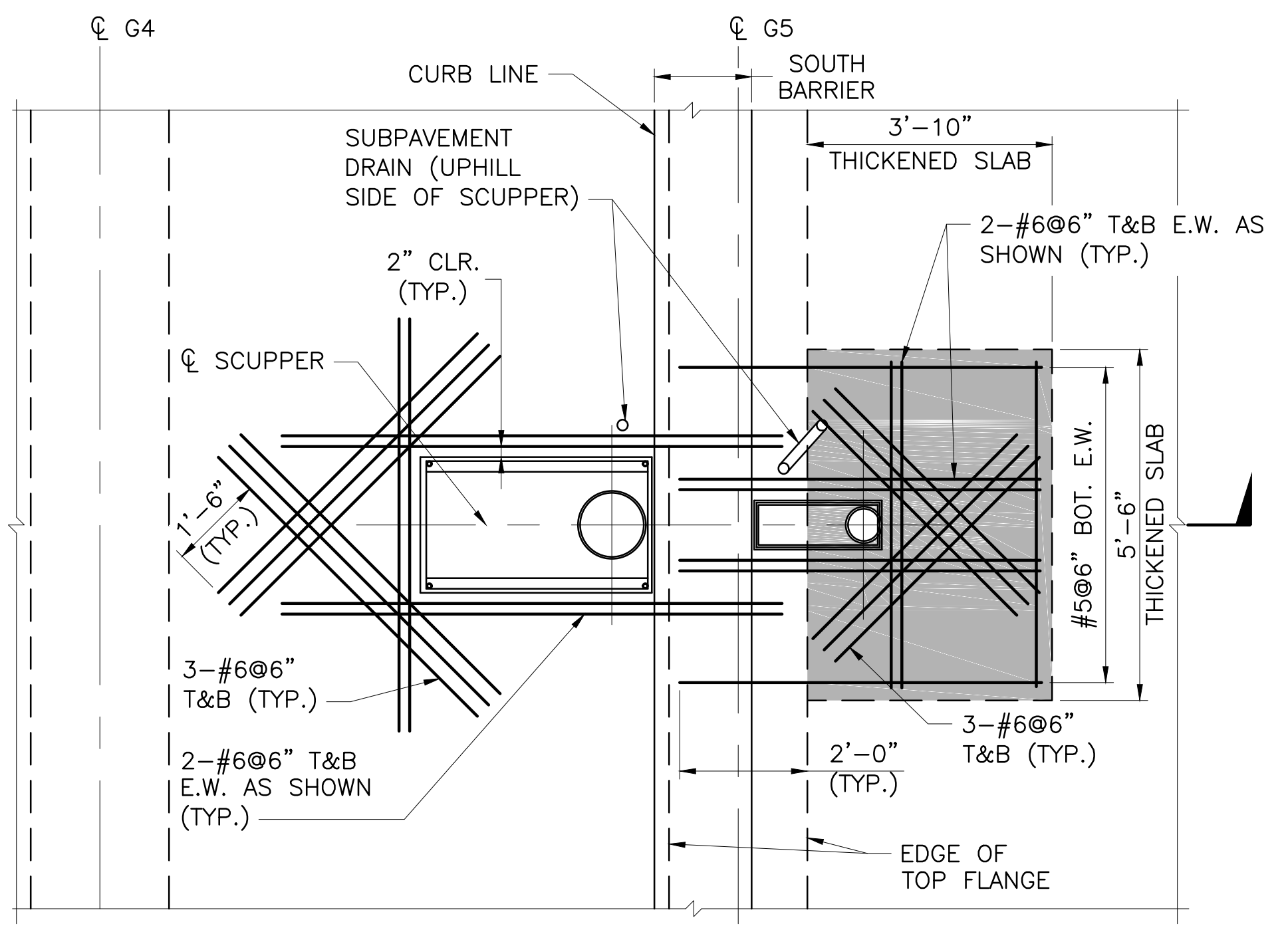


SUBPAVEMENT DRAIN
 NOT TO SCALE

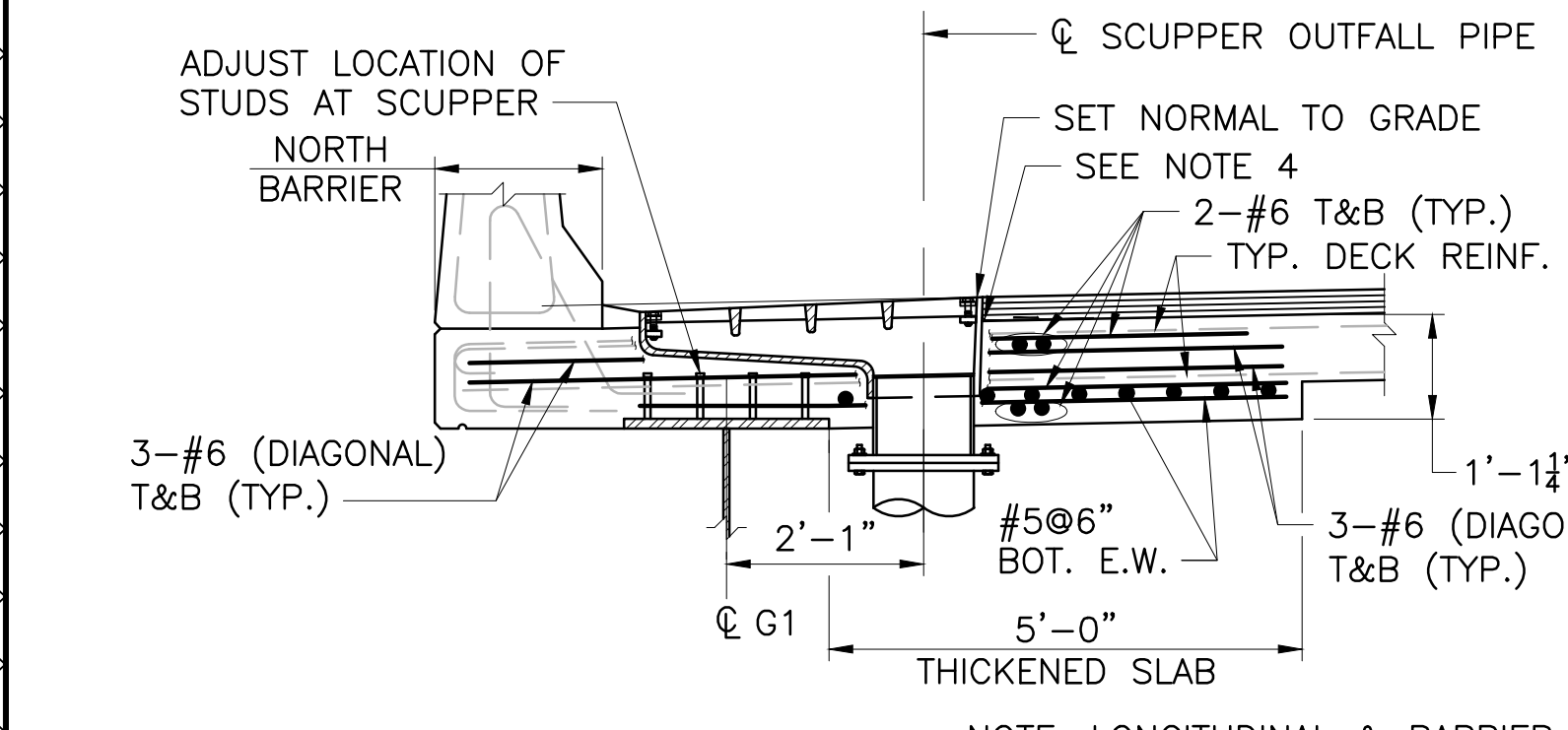
DETAIL 2
 SCALE: N.T.S.



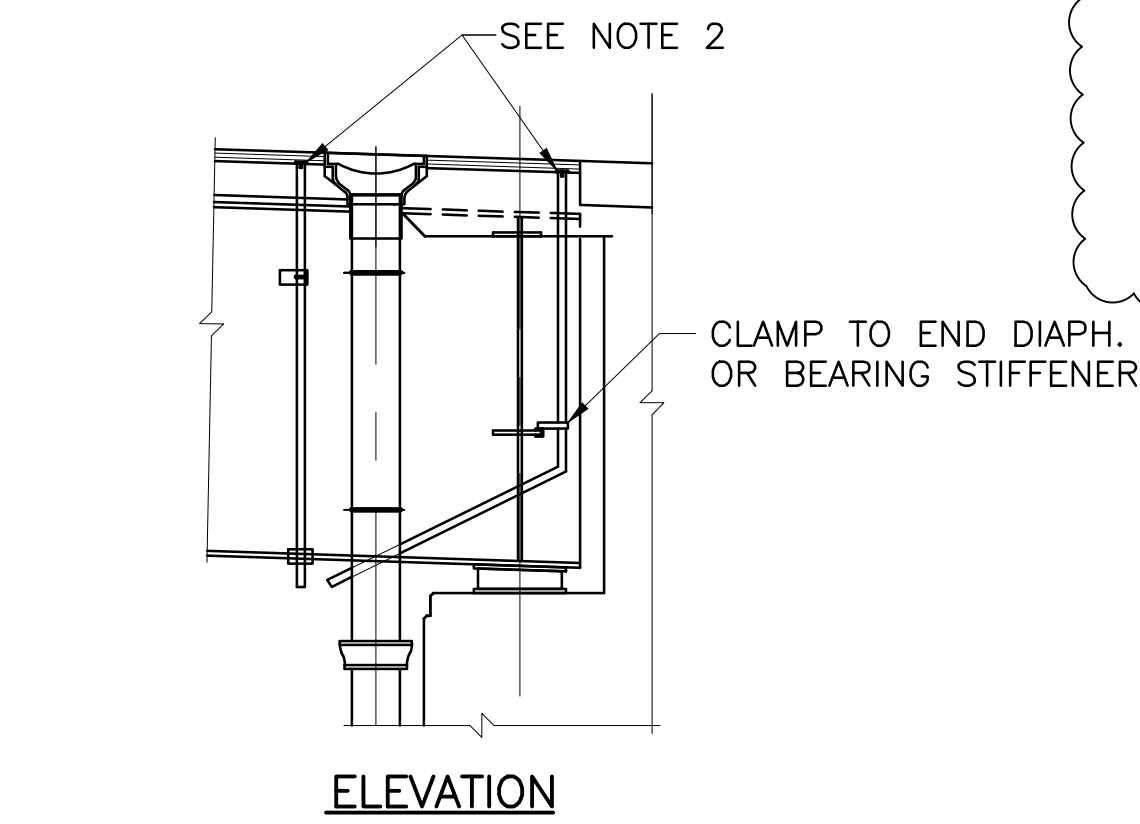
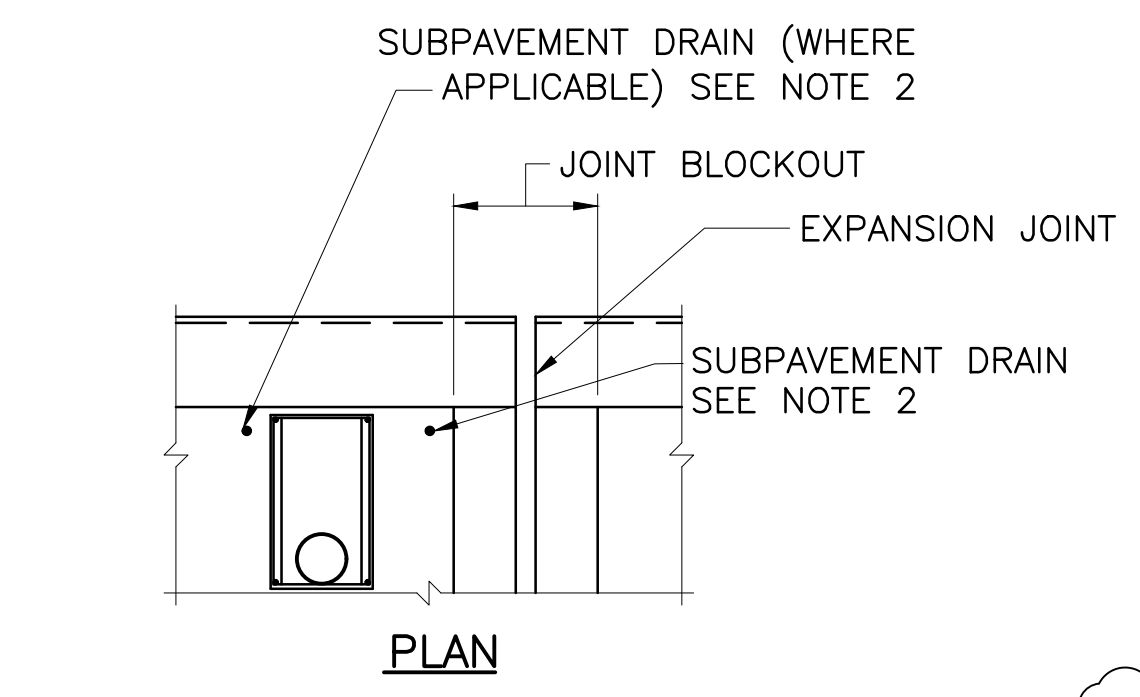
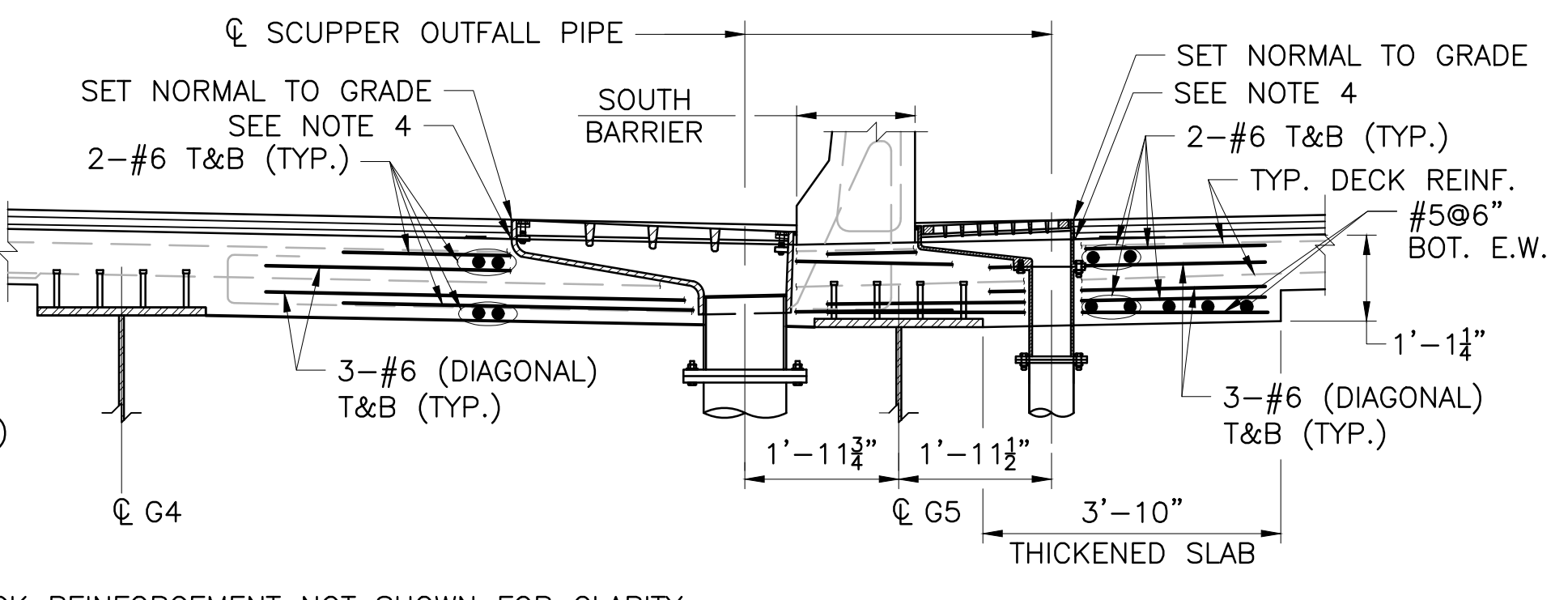
NORTH BARRIER DECK REINFORCEMENT AT SCUPPER PLAN
 SCALE: 1/2"=1'-0"



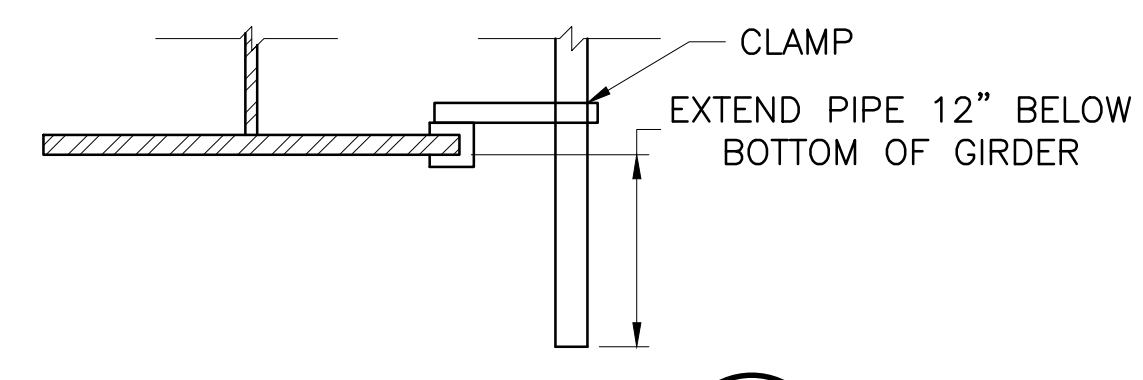
SOUTH BARRIER DECK REINFORCEMENT AT SCUPPER PLAN
 SCALE: 1/2"=1'-0"



SECTION A
 SCALE: 1/2"=1'-0"



SUBPAVEMENT DRAIN DETAIL
 NOT TO SCALE



DETAIL 1
 SCALE: N.T.S.

LEGEND

THICKENED DECK

NOTES

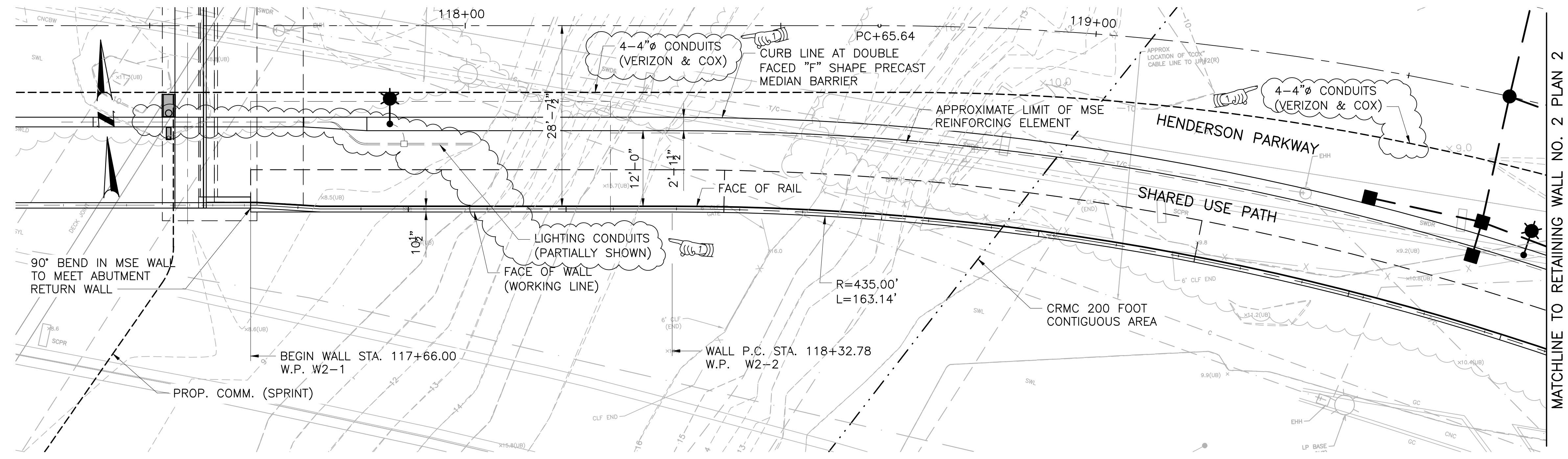
1. TRIM ADDITIONAL DECK REINFORCEMENT AT SCUPPER TO FIT.
2. LOCATE SUBPAVEMENT DRAIN 6" UPHILL OF SCUPPER AND EXPANSION JOINT.
3. LOCATE SUBPAVEMENT DRAIN 6" FROM CURBLINE UNLESS NOTED OTHERWISE.
4. TURN UP WATERPROOFING MEMBRANES AT SIDES OF SCUPPER.
5. REFER TO DRAINAGE DETAILS 1 FOR SCUPPER DETAILS.

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RHODE ISLAND
 DEPARTMENT OF TRANSPORTATION
 BRIDGE GROUP 49 - HENDERSON
 RECONSTRUCTION OF
 HENDERSON BRIDGE NO. 600
 PROVIDENCE/EAST PROVIDENCE, RHODE ISLAND

DECK DETAILS 4

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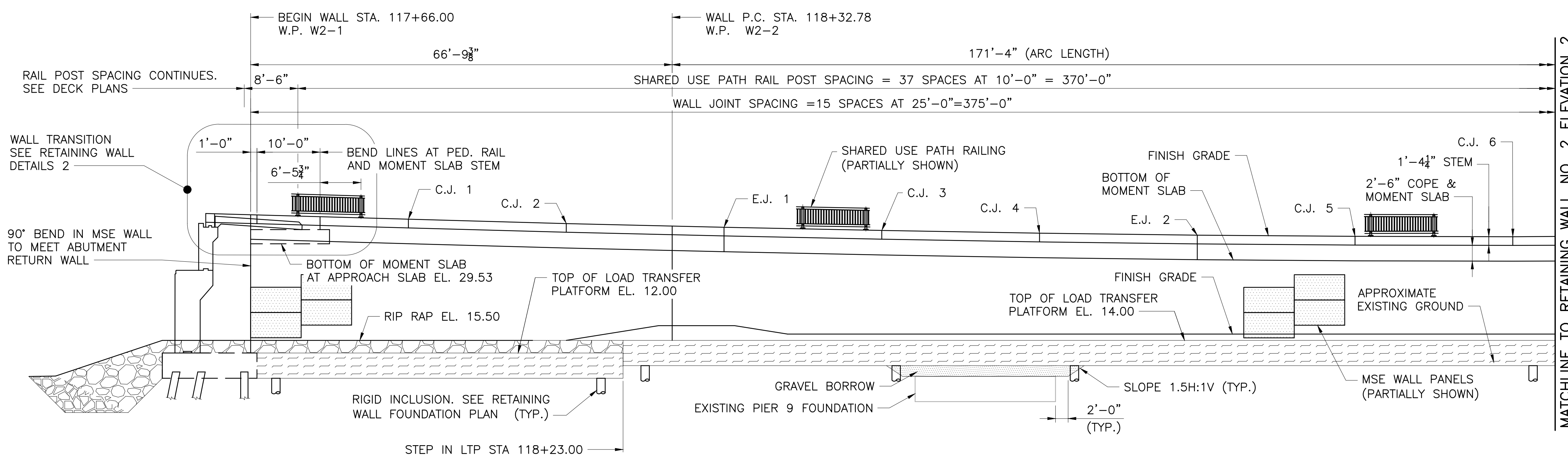


RETAINING WALL NO. 2 PLAN
 SCALE: 1"=1'-0"

RETAINING WALL NO. 2		
WORKING POINT	NORTHING	EASTING
W2-1	271762.3108	362084.0766
W2-2	271757.7094	362150.7022
W2-3	271712.9700	362314.9499
W2-4	271702.0147	362336.9228
W2-5	271675.7203	362385.9329
W2-6	295935.7500	342842.9428

WALL ELEVATIONS		
LOCATION	TOP OF WALL STEM	BOTTOM OF MOMENT SLAB
W2-1	33.95	29.53 *
CJ 1	33.25	29.40
CJ 2	32.56	28.71
W2-2	32.35	28.50
EJ 1	31.97	28.12
CJ 3	31.46	27.61
CJ 4	31.03	27.18
EJ 2	30.79	26.94
CJ 5	30.53	26.68
CJ 6	30.47	26.62
EJ 3	30.53	26.68
W2-3	30.62	26.77
CJ 7	30.73	26.88
W2-4	30.89	27.04
CJ 8	31.06	27.21
EJ 4	31.48	27.63
W2-5	31.85	28.00
CJ 9	31.21	25.50 *
EJ 5	28.83	21.33 *
CJ 10	26.45	21.33 *
W2-6	25.00	21.33 *

*SEE NOTE 5



RETAINING WALL NO. 2 DEVELOPED ELEVATION
 SCALE: 1"=1'-0"

NOTES

- REFER TO HIGHWAY PLANS (VOLUME 1) FOR COMPLETE GEOMETRY AND CURVE DATA FOR ROADWAY AND SHARED USE PATH.
- REFER TO VOLUME 1 FOR ADDITIONAL DRAINAGE, LIGHTING, SIGNING, AND STRIPING INFORMATION.
- FORMLINER FINISH: FITZGERALD ASHLAR PATTERN 16986 OR EQUIVALENT.
- CONSTRUCTION JOINT IN MOMENT SLAB FOOTING TO BE LOCATED AT EXPANSION JOINTS IN BARRIER AND STEM.
- BOTTOM OF FOOTING LEVEL AT APPROACH SLAB AND FROM W.P. W2-5 TO W2-6. SEE RETAINING WALL DETAIL SHEETS.

LEGEND

- C.J. - CONTRACTION JOINT
- E.J. - EXPANSION JOINT
- ⊙ - BORING

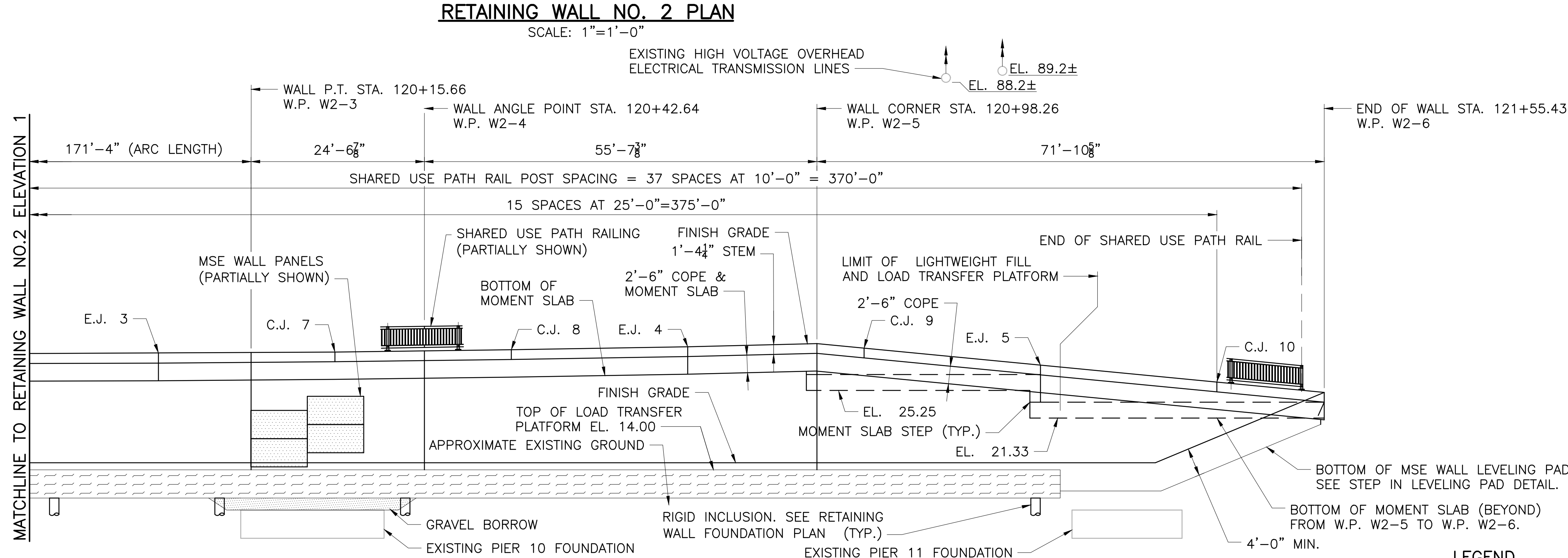
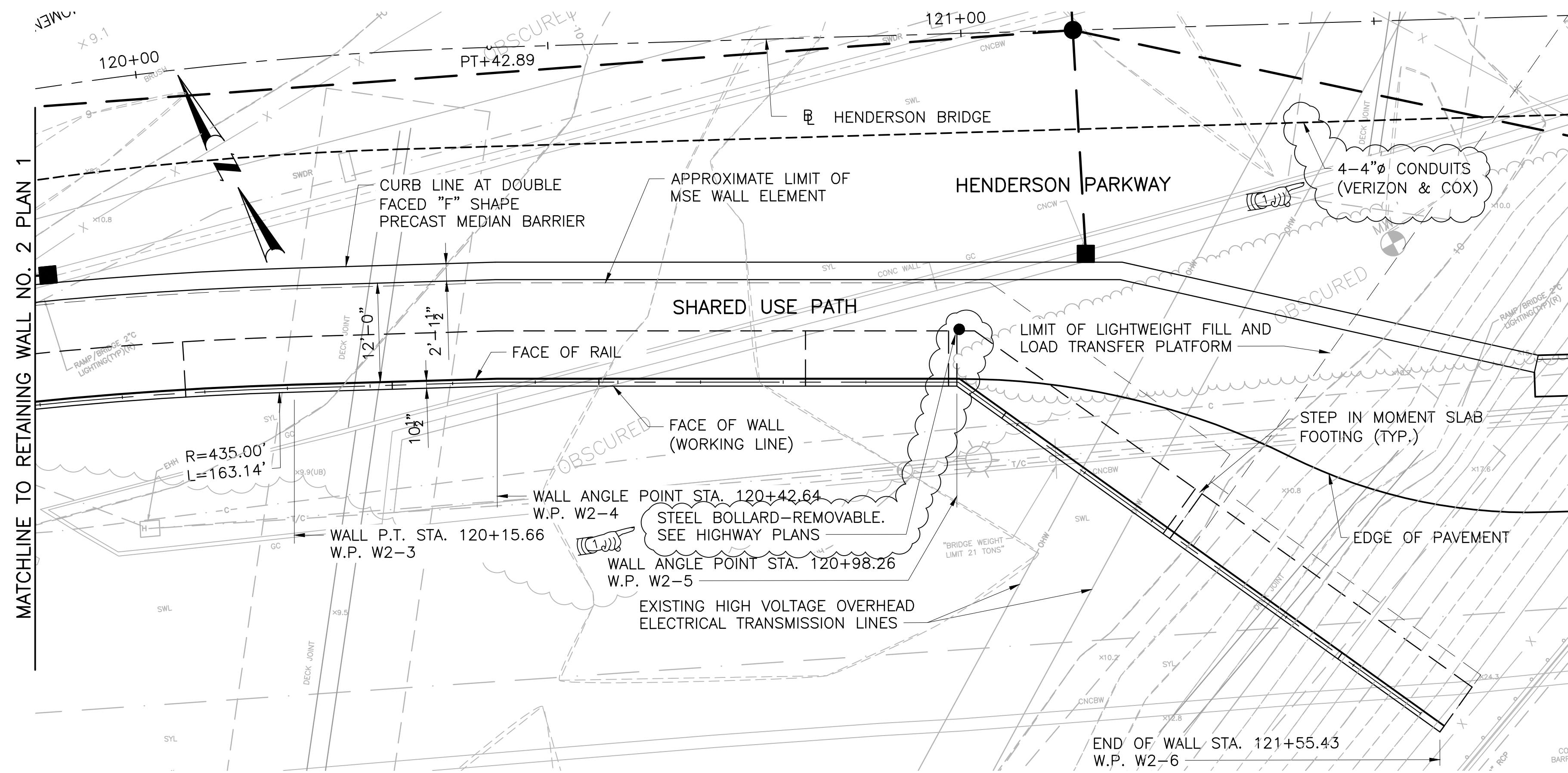
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RHODE ISLAND
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 BRIDGE GROUP 49 - HENDERSON
 RECONSTRUCTION OF
 HENDERSON BRIDGE NO. 600
 PROVIDENCE/EAST PROVIDENCE, RHODE ISLAND

**RETAINING WALL NO. 2
 PLAN AND ELEVATION 1**

CHECKED BY _____ DATE _____ SCALE _____





NOTES

- 1. SEE RETAINING WALL NO. 2 PLAN AND ELEVATION 1 FOR WORKING POINTS, TABLE OF ELEVATIONS AND NOTES.

LEGEND

- C.J. - CONTRACTION JOINT
- E.J. - EXPANSION JOINT
- ⊗ - BORING

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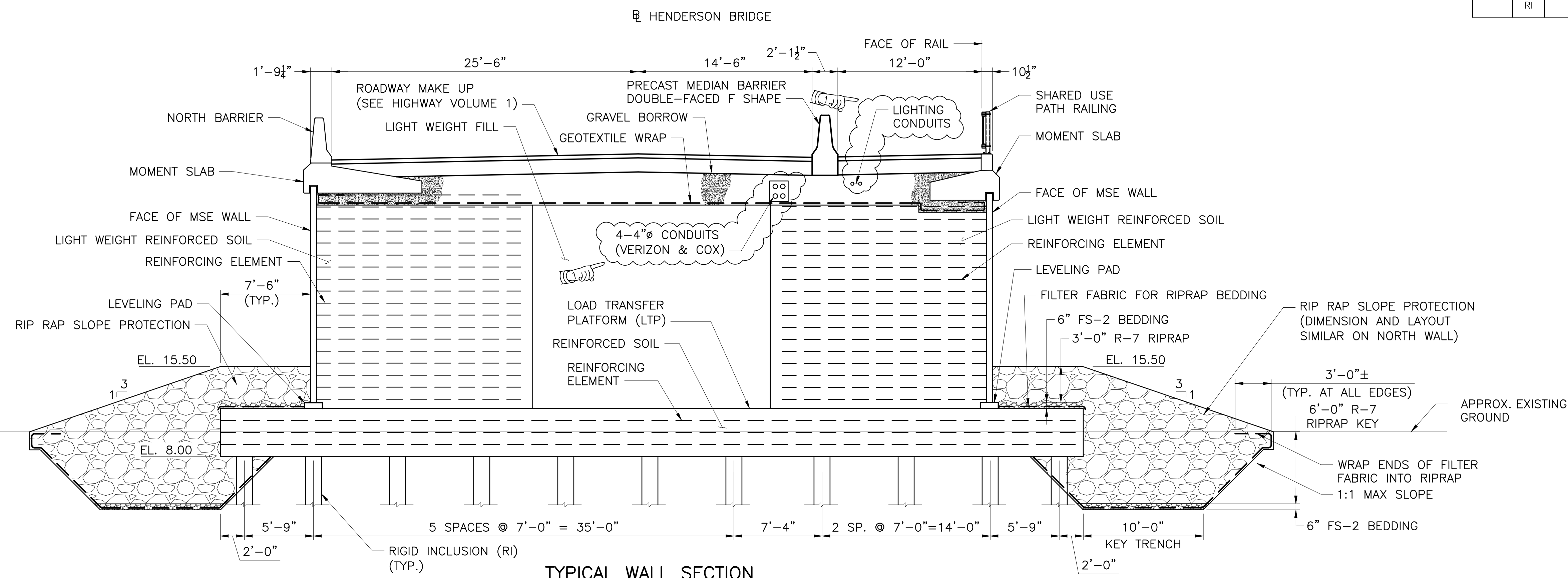
**BRIDGE GROUP 49 - HENDERSON
RECONSTRUCTION OF
HENDERSON BRIDGE NO. 600**
PROVIDENCE/EAST PROVIDENCE, RHODE ISLAND

**RETAINING WALL NO. 2
PLAN AND ELEVATION 2**

CHECKED BY _____ DATE _____ SCALE _____

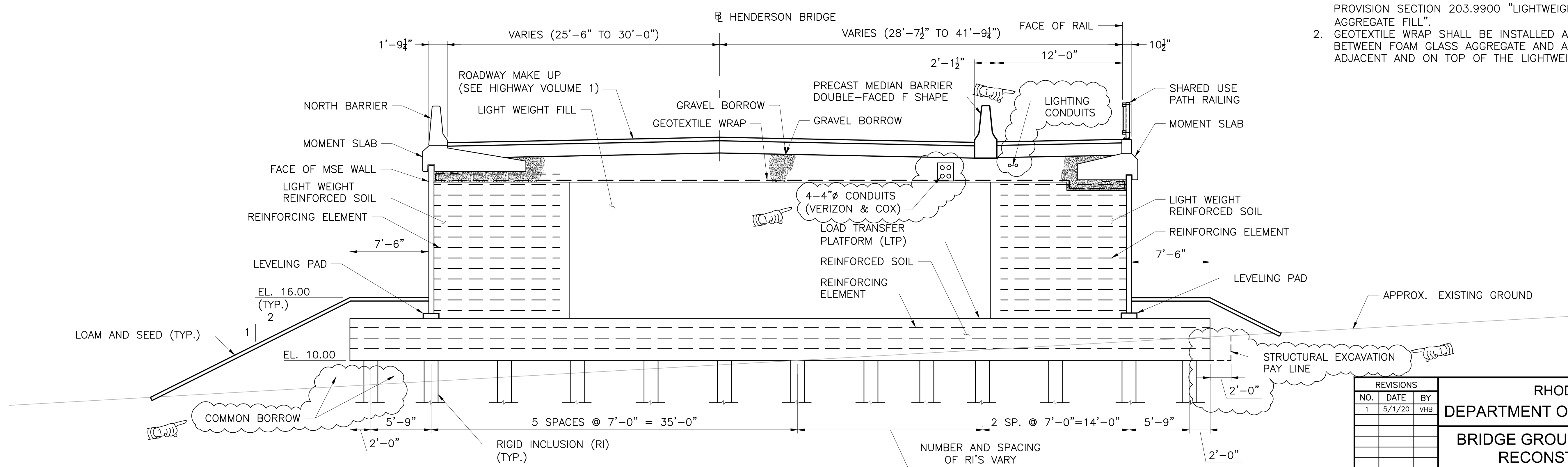


FED. ROAD DIV. NO.	STATE	FEDERAL AID PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
	RI		2020	131	149



TYPICAL WALL SECTION
STA. 117+66.00 TO 118+23.00
 SCALE: 3/16"=1'-0"

- NOTES**
- LIGHTWEIGHT REINFORCED SOIL AND LIGHTWEIGHT FILL SHALL BE FOAMED GLASS AGGREGATE IN ACCORDANCE WITH SPECIAL PROVISION SECTION 203.9900 "LIGHTWEIGHT FOAMED GLASS AGGREGATE FILL".
 - GEOTEXTILE WRAP SHALL BE INSTALLED AS A SEPARATOR BETWEEN FOAM GLASS AGGREGATE AND ALL FILL SOILS PLACED ADJACENT AND ON TOP OF THE LIGHTWEIGHT FILL MATERIAL.



TYPICAL WALL SECTION
STA. 118+23.00 TO 120+89.26
 SCALE: 3/16"=1'-0"

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RHODE ISLAND
 DEPARTMENT OF TRANSPORTATION

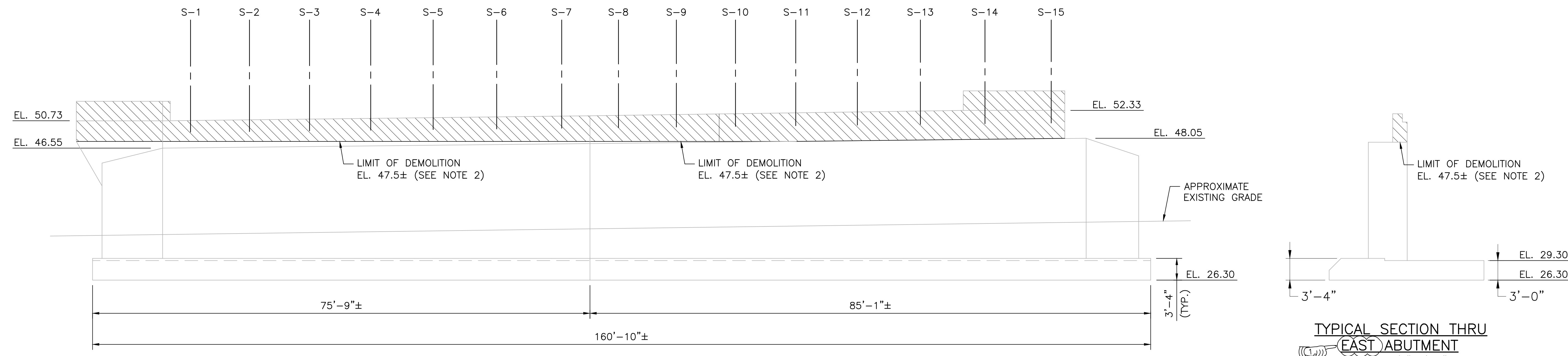
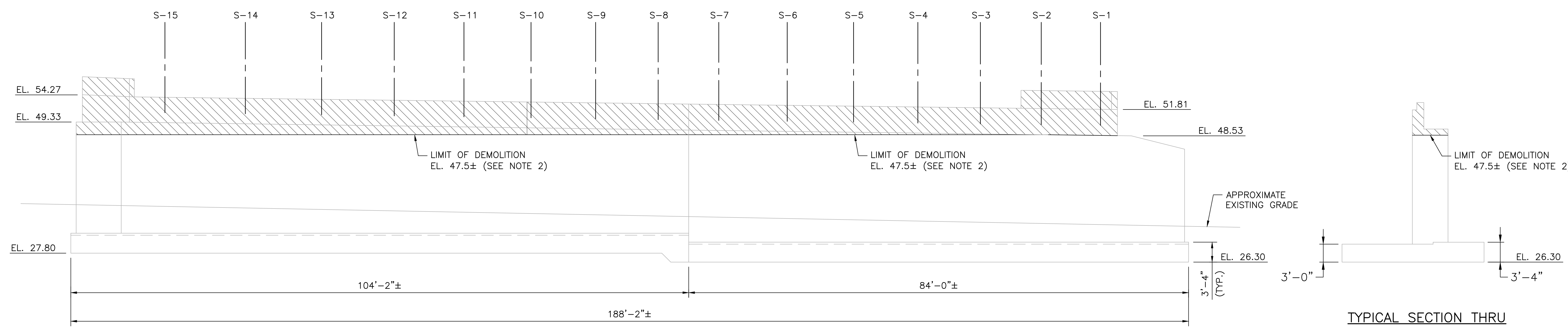
**BRIDGE GROUP 49 - HENDERSON
 RECONSTRUCTION OF
 HENDERSON BRIDGE NO. 600**
 PROVIDENCE/EAST PROVIDENCE, RHODE ISLAND

RETAINING WALL DETAILS 1

CHECKED BY _____ DATE _____ SCALE _____



FED. ROAD DIV. NO.	STATE	FEDERAL AID PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
	RI		2020	144	149



LEGEND

 PHASE 4 DEMOLITION

NOTES

- ALL DIMENSIONS AND ELEVATIONS SHOWN ARE ± AND HAVE BEEN APPROXIMATED FROM THE RECORD PLANS.
- FOR RETURN WALL DEMOLITION LIMITS, SEE BRIDGE NO. 059501 DEMOLITION PLAN 4.
- ANY EXISTING STRUCTURE THAT IS SHOWN TO REMAIN SHALL BE CUT A MINIMUM OF 2'-0" BELOW PROPOSED FINAL GRADE.

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1	5/1/20	VHB

RHODE ISLAND
DEPARTMENT OF TRANSPORTATION

**BRIDGE GROUP 49 - HENDERSON
RECONSTRUCTION OF
HENDERSON BRIDGE NO. 600**
PROVIDENCE/EAST PROVIDENCE, RHODE ISLAND

**BRIDGE NO. 059501
DEMOLITION PLAN 3**

CHECKED BY _____ DATE _____ SCALE _____

 1 Cedar Street
Suite 400
Providence, RI 02903
401.272.8100