

June 12, 2019

STATE OF RHODE ISLAND AND PROVIDENCE PLANTATION

DEPARTMENT OF ADMINISTRATION

DIVISION OF PURCHASES BID NO. 7598779

RHODE ISLAND DEPARTMENT OF TRANSPORTATION

RHODE ISLAND CONTRACT NO. 2018-CB-088

FEDERAL-AID PROJECT NO. FAP NO. BRO-0760(003)

BRIDGE GROUP 58A – DIVISION STREET

STA 44+48.20 TO STA 55+77.12

TOWN OF EAST GREENWICH

COUNTY OF KENT

NOTICE TO PROSPECTIVE BIDDERS

ADDENDUM NO. 6      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. Clarification**

1. Updated Questions and Answers for Bridge Group 58A – Division Street Bridge  
An updated copy of the Questions and Answers for Bridge Group 58A – Division Street Bridge is attached to this Addendum No. 6.

**B. Other Item Changes**

1. 808.0501 CONCRETE SUBSTRUCTURE CLASS XX ¾" FOOTINGS  
Quantity updated to 170 CY.
2. 808.0601 CONCRETE SUBSTRUCTURE CLASS HP ¾" PIERS, COL. CAP  
Quantity updated to 222 CY.
3. 834.0131 VERTICAL FACE GRANITE CURB STRAIGHT 7" REVEAL

Quantity updated to 485 LF.

4. 905.0110 PORTLAND CEMENT SIDEWALK MONOLITHIC STANDARD 43.1.0  
Quest Item added. Quantity updated to 30 CY.
5. 926.0121 UNANCHORED PRECAST CONCRETE BARRIER FOR  
TEMPORARY TRAFFIC CONTROL STANDARD 40.5.0.  
Quantity updated to 2755 LF.
6. 926.9901 UNANCHORED CONCRETE BARRIER FOR TEMPORARY TRAFFIC  
CONTROL (MASH TL-4).  
Quest Item added. Quantity updated to 2640 LF.

**C. Drawings/Plans – Change/Addition**

1. Sheet 8  
Delete Sheet 8 (Rev No.1) in its entirety and replace it with Sheet No. 8 (Rev No. 2)  
attached to this Addendum No. 6.
2. Sheet 14  
Delete Sheet 14 (Rev No.1) in its entirety and replace it with Sheet No. 14 (Rev No.  
2) attached to this Addendum No. 6.
3. Sheet 27  
Delete Sheet 27 (Rev No. 1) in its entirety and replace it with Sheet No. 27 (Rev No.  
2) attached to this Addendum No. 6.
4. Sheet 40  
Delete Sheet 40 in its entirety and replace it with Sheet No. 40 (Rev No. 1) attached  
to this Addendum No. 6.
5. Sheet 41  
Delete Sheet 41 in its entirety and replace it with Sheet No. 41 (Rev No. 1) attached  
to this Addendum No. 6.
6. Sheet 42  
Delete Sheet 42 (Rev No. 1) in its entirety and replace it with Sheet No. 42 (Rev No.  
2) to this Addendum No. 6.
7. Sheet 43  
Delete Sheet 43 (Rev No. 1) in its entirety and replace it with Sheet No. 43 (Rev No.  
2) attached to this Addendum No. 6.
8. Sheet 68  
Delete Sheet 68 (Rev No.2) in its entirety and replace it with Sheet No. 68 (Rev No.  
3) attached to this Addendum No. 6.

9. Sheet 77  
Delete Sheet 77 in its entirety and replace it with Sheet No. 77 (Rev No. 1) attached to this Addendum No. 6.
10. Sheet 78  
Delete Sheet 78 in its entirety and replace it with Sheet No. 78 (Rev No. 1) attached to this Addendum No. 6.
11. Sheet 98  
Delete Sheet 98 in its entirety and replace it with Sheet No. 98 (Rev No. 1) attached to this Addendum No. 6.
12. Sheet 106  
Delete Sheet 106 in its entirety and replace it with Sheet No. 106 (Rev No. 1) attached to this Addendum No. 6.
13. Sheet 107  
Delete Sheet 107 in its entirety and replace it with Sheet No. 107 (Rev No. 1) attached to this Addendum No. 6.
14. Sheet 121  
Delete Sheet 121 in its entirety and replace it with Sheet No. 121 (Rev No. 1) attached to this Addendum No. 6.

**D. General Provisions – Contract Specific**

1. Page 7A  
Replace page 7A in its entirety and replace with Page 7A (Rev No.1) attached to this Addendum No. 6.
2. Appendix D  
Add pages D-44, D-45 and D-46 to the end of Appendix D.

**E. General Provisions – Job Specific**

1. Index  
Remove pages JS-i (Rev. No. 2) to JS-iii (Rev No. 2) and replace with JS-i (Rev No. 3) to JS-iii (Rev No. 3) attached to this Addendum No. 6.
2. 802.9901 TEMPORARY UTILITY BRIDGE  
Remove page 30 in its entirety and replace with page JS-30 (Rev. No. 1) attached to this Addendum No. 6.
3. 805.9903 MSE WALLS PRECAST CONCRETE FACING  
Remove page 53 in its entirety and replace with pages JS-53 (Rev. No. 1) attached to this Addendum No. 6.
4. 916.9901 TEMPORARY IMPACT ATTENUATION SYSTEM

Remove Page 89 in its entirety and replace with JS-89 (Rev No. 1) attached to this Addendum No. 6.

5. 916.9902 IMPACT ATTENUATION SYSTEM  
Add page JS-90A in its entirety attached to this Addendum No.6.
6. 926.9901 UNANCHORED PRECAST CONCRETE BARRIER FOR  
TEMPORARY TRAFFIC CONTROL (MASH TL-4)  
Add page JS-90B in its entirety attached to this Addendum No. 6.
7. 938.1000 PRICE ADJUSTMENTS  
Remove Page 94 (Rev. No.1) in its entirety and replace with page JS-94 (Rev No. 2)  
attached to this Addendum No. 6.

**F. Distribution of Quantities**

1. Index  
Delete pages 1 through 4 (Rev No. 3) in their entirety and replace them with pages 1  
(Rev No.4) through page 4 (Rev No. 4) attached to this Addendum No. 6.
2. 808.0501 CONCRETE SUBSTRUCTURE CLASS XX ¾" FOOTINGS  
Delete page 20 in its entirety and replace with page 20 (R-1) attached to this  
Addendum No. 6.
3. 808.0601 CONCRETE SUBSTRUCTURE CLASS HP ¾" PIERS, COL. CAP  
Delete page 21 in its entirety and replace with page 21 (R-1) and add page 21A  
attached to this Addendum No. 6.
4. 834.0131 VERTICAL FACE GRANITE CURB STRAIGHT 7" REVEAL  
Remove page 26 in its entirety and replace with page 26 (R-1) attached to this  
Addendum No. 6.
5. 905.0110 PORTLAND CEMENT SIDEWALK MONOLITHIC STANDARD 43.1.0  
Remove page 44 in its entirety and replace with page 44 (R-1) attached to this  
Addendum No. 6.
6. 926.0121 UNANCHORED PRECAST CONCRETE BARRIER FOR  
TEMPORARY TRAFFIC CONTROL STANDARD 40.5.0.  
Remove page 33 in its entirety and replace with page 33 (R-1) attached to this  
Addendum No. 6.
7. 926.9901 UNANCHORED CONCRETE BARRIER FOR TEMPORARY TRAFFIC  
CONTROL (MASH TL-4).  
Remove page 44 in its entirety and replace with page 44 (R-1) attached to this  
Addendum No. 6.

David W. Fish

RI Department of Transportation  
Administrator, Division of Project Management

## Questions and Answers For:

Bridge Group 58A - Division Street Bridge 2018-CB-088

**Please Note:** *If this is the first time accessing our system on our new web site, you will be required to reset your password.*

**The ask question function is now disabled;  
please call 401-563-4100 with any new questions.**

**Date Asked:** 06/05/2019

**Date Answered:** 06/06/2019

**Poster:** Robert Berry

**Company:** J F White Contracting

**Question:**

We respectfully request that the early completion incentive items (108.9901, 108.9902, and 108.9903) be excluded from the contract value, as it relates to our computation of DBE participation. We feel this is justified in that these are not "construction" items that can be subcontracted out. The value of these items also artificially inflates the contract value, thereby increasing our bond costs, which we would have to pass on the to Department.

**Answer:**

108.9901, 108.9902, and 108.9903 are included in the contract value and used to compute DBE goal.

**Date Asked:** 05/31/2019

**Date Answered:** 06/07/2019

**Poster:** Anthony Mesiti

**Company:** Cardi Corporation

**Question:**

Below is comments from Reinforced Earth Company regarding the MSE Walls. Suppliers will not quote due to the design requirements. This email is to inform potential bidders of the Division Street project, that The Reinforced Earth Company (RECo) has decided NOT to quote MSE wall design and materials for this project. The reason for this is simply RECo cannot meet the specifications. The attached excerpt of Code 805.9903 MSE Walls Precast Concrete Facing highlights three major issues within the specifications. There are many more! 1. RECo will NOT be responsible for the design of the drainage system for the structures. 2. RECo will NOT inspect and approve the subgrade conditions. 3. RECo will NOT be on site to monitor and approve construction methods until the work is complete. 4. RECo is NOT the Civil or Geotechnical Engineer for the owner, nor is RECo the Inspector for the owner. Since the specification is imperative that the MSE wall system designer must provide these services, RECo will DECLINE to quote this project.

**Answer:**

The drainage design and subgrade inspection may be performed by a qualified geotechnical engineer, retained by the Contractor. Specification will be updated via Addendum.

**Date Asked:** 05/31/2019**Date Answered:** 06/03/2019**Poster:** Anthony Mesiti**Company:** Cardi Corporation**Question:**

Are soil conditions available at the locations of the overhand signs and 80 foot camera pole so the contractor can determine the foundation design.

**Answer:**

Provisions for borings at the sign locations are provided under the Special Provisions for Items T17.9902 and T17.9903. The available borings in the area that have been taken previously are provided on the plans (Proposed and Existing plans are on CD). See Sheet 7 of 9 of the ITS details in Appendix B of the Contract Specific Specifications for information regarding the camera pole foundation.

**Date Asked:** 05/30/2019**Date Answered:** 05/31/2019**Poster:** Jeff Patch**Company:** Atlantic Bridge & Engineering**Question:**

On Bearing Details Sheet 2 of 2 (Sheet No. 121 of 134), in Sections RR & SS the welding symbol indicates that the Sole Plates are to be Shop Welded to the Stringer Bottom Flanges whereas Note No.'s 9 & 10 seem to indicate that the Sole Plates are to be Field Welded? Please provide clarification.

**Answer:**

Sole Plates will be field welded. Sheet 121 will be updated via Addendum.

**Date Asked:** 05/22/2019**Date Answered:** 05/22/2019**Poster:** Susan Cullen**Company:** J.H. Lynch & Sons, Inc.**Question:**

1. Item 808.1503 class hp concrete Parapets is not shown anywhere on the drawings or listed in the concrete strength list on drawing no.68. Also there is no item for the Concrete barrier on the bridge. Are the parapet and barrier items the same? The quantity for barrier seems to match the quantity for the parapet item. Also on drawing 68, you listed the barrier as class xx 4000 psi on the concrete strength list of items. Should that be changed to class hp?

**Answer:**

Item 808.1503 covers the concrete median barrier. Sheet 68 will be updated via Addendum.

**Date Asked:** 05/22/2019**Date Answered:** 05/22/2019**Poster:** Susan Cullen**Company:** J.H. Lynch & Sons, Inc.

**Question:**

Type your questions here.

**Answer:**

Void.

**Date Asked:** 05/22/2019**Date Answered:** 05/22/2019**Poster:** Anthony Mesiti**Company:** Cardi Corporation**Question:**

The plans show that the top of rock at the abutments is elev. 170.0. Item 203.0220 includes 1422 CY of structural excavation rock mechanical at the temporary and new abutments. If the top of rock is at elev. 170.0, where is the 1422 cy of rock excavation located?

**Answer:**

The top of rock elevation is estimated at 170 at the boring locations. However, the rock elevation may vary behind the abutments. The amount of rock excavation needed to install the leveling pad and MSE reinforcing was estimated from borings and site visits.

**Date Asked:** 05/22/2019**Date Answered:** 05/22/2019**Poster:** Anthony Mesiti**Company:** Cardi Corporation**Question:**

The bottom of the temporary pier footing is at elev. 172.0 . Borings HA-3 & HA-4 shows the top of rock at 176.4 and 174.30. Please clarify that rock removal is required to obtain bottom of footing.

**Answer:**

Rock Excavation will be necessary for temporary Pier Footing. Bottom of Footing Elevations were based on estimates from borings and site visits. If rock is found above the elevation of the bottom of footing, the Department will accept requests to alter the height of the bottom of footing. A minimum of 6" of rock will be removed for benching.

**Date Asked:** 05/21/2019**Date Answered:** 05/22/2019**Poster:** Susan Cullen**Company:** J.H. Lynch & Sons, Inc.**Question:**

1. Bid item 820.0110 Concrete Surface Treatment (Protective Coating) according to the DOQ is located at the bridge deck fascia. The detail on sheet no. 123 calls for a rubbed surface. The quantity of 1,500 sf looks correct for this detail. Can you clarify which product should be included?

**Answer:**

Product shall be a Film Forming Sealer in accordance with Section 820.02.1 of the RIDOT Standard Specifications and shall be listed on the RIDOT's Approved Products List.

**Date Asked:** 05/21/2019**Date Answered:** 05/21/2019



**Poster:** Anthony Mesiti

**Company:** Cardi Corporation

**Question:**

Please clarify which restriction applies to the installation and removal of the utility bridge.

**Answer:**

Erection of the temporary utility bridge will be covered under the ♦Route 4 Temporary Closure during Beam Erection♦. The removal of the utility bridge will be accomplished in the same manner as the removal of the existing bridge. See answer to previous question.

**Date Asked:** 05/21/2019

**Date Answered:** 05/23/2019

**Poster:** Michael Dugas Jr

**Company:** AM Electric, LLC

**Question:**

Type your questions here. There is not enough information provided in the plans and specs to determine which type of 16 AWG 3 conductor cable is needed for this work. Please explain in detail what the cable will be used for and why the cable cannot be spliced or provide a better description of the type of cable that is required.

**Answer:**

The Job Specific will be revised by addendum. The intent of the 16 AWG 3 CONDUCTOR CABLE was to be used to run power from the Utility pole to the pole Mounted Camera Cabinet.

**Date Asked:** 05/21/2019

**Date Answered:** 05/21/2019

**Poster:** paul grimaldi

**Company:** J. F. WHITE CONTRACTING CO.

**Question:**

Please confirm the Type 1 and Type 2 Slide shoe bearings are installed in the temporary bridge alignment and relocated to the final location during the ABC slide weekend.

**Answer:**

Correct. Slide shoe bearings will be installed in temporary bridge alignment and relocated during ABC slide weekend.

**Date Asked:** 05/21/2019

**Date Answered:** 05/21/2019

**Poster:** Anthony Mesiti

**Company:** Cardi Corporation

**Question:**

Please clarify the final grades after the temporary road is removed since there are no grade plans. In the areas of the temporary road, is the ground graded to it's original grades.

**Answer:**

The intent is to match the existing grades to the greatest extent practical based on the new wingwall configurations.

**Date Asked:** 05/20/2019

**Date Answered:** 05/21/2019

**Poster:** Anthony Mesiti

**Company:** Cardi Corporation

**Question:**

FOR 410.1000 TEMPORARY PATCHING. YOU HAVE INDICATED THAT THIS ITEM WILL USED TO FILLING IRREGULARLIES / HOLES IN MILLED SURFACES BEFORE OVERLAY. THIS IS USUALLY PAID UNDER 401.3002 - CLASS 9.5 HMA FOR LEVELING NOT TEMPORARY PATCHING.

**Answer:**

Item 410.00 will remain for the patching of utility trenches and structures. Quantity will be reduced via Addendum. Item 401.3002 Class 9.5 HMA for Leveling will be added via Addendum in the event of irregularities of the milled surfaces.

**Date Asked:** 05/20/2019

**Date Answered:** 05/20/2019

**Poster:** Anthony Mesiti

**Company:** Cardi Corporation

**Question:**

YOU HAVE INDICATED THAT 5% WAS ADDED TO THE STRUCTURAL STEEL ITEM FOR MISC STEEL. THE 5% MISC. WILL BE IMPOSSIBLE TO ESTIMATE WITHOUT DESIGN DETAILS. WHERE AND WHAT WOULD THE MISC. STEEL BE USED FOR?

**Answer:**

Quantity will be updated via addendum.

**Date Asked:** 05/20/2019

**Date Answered:** 05/20/2019

**Poster:** Anthony Mesiti

**Company:** Cardi Corporation

**Question:**

ITEM 805.4100 - SOLDIER PILES DRIVE, STEEL. PER THE RI STD SPEC, THIS ITEM IS TO DRIVE SOLDIER PILES IN EARTH. PLEASE CLARIDY HOW ROCK SOCKETS ARE PAID FOR IF THEY ARE NEEDED FOR THE SOLDIER PILE DESIGN.

**Answer:**

If rock sockets are necessary, they will be considered incidental to Item 805.4100.

**Date Asked:** 05/20/2019

**Date Answered:** 05/20/2019

**Poster:** Anthony Mesiti

**Company:** Cardi Corporation

**Question:**

Will full closures and rolling roadblock on RT 4 be allowed for the removal of the existing structural beams?

**Answer:**

Full closures will not be permitted for beam removal. Rolling Roadblocks and temporary lane closures per the General Restrictions table will be used for beam removal.

**Date Asked:** 05/20/2019

**Poster:** Michelle Ingram

**Date Answered:** 05/20/2019

**Company:** Liddell Brothers, Inc.

**Question:**

The contract drawings do not contain the CCVE PLANS as stated on contract drawing sheet 65. Please provide the CCVE PLANS and any plans on the Travel Time System and associated electrical scope.

**Answer:**

Please see Appendix B of the Contract Specific Specifications.

**Date Asked:** 05/20/2019

**Poster:** Anthony Mesiti

**Date Answered:** 05/20/2019

**Company:** Cardi Corporation

**Question:**

Item No. 201.0401- R & D Granite Curb. The curbing on the approaches is concrete not granite.

**Answer:**

It appears that there is granite and concrete curb on the approaches. Item 201.0401 will cover the removal and disposal of all curb, granite and concrete.

**Date Asked:** 05/20/2019

**Poster:** Anthony Mesiti

**Date Answered:** 05/20/2019

**Company:** Cardi Corporation

**Question:**

Please clarify how the the removal of the existing slope pavers is paid for.

**Answer:**

The removal of the existing slope pavers will be considered incidental to Item 803.0000. A note will be added to the plans via Addendum.

**Date Asked:** 05/20/2019

**Poster:** Anthony Mesiti

**Date Answered:** 05/20/2019

**Company:** Cardi Corporation

**Question:**

Please clarify what is the designation of the backfill in front of the precast MSE Wall.

**Answer:**

The backfill in front of the MSE wall shall be Common Borrow. Quantity will be updated via Addendum.

**Date Asked:** 05/20/2019

**Poster:** Anthony Mesiti

**Date Answered:** 05/20/2019

**Company:** Cardi Corporation

**Question:**

Item No. 939.0500 - Please clarify where this item is located. What is the height of the wall?

**Answer:**

A small segment, no more than 10 LF of an existing stone wall at STA 46+38 LT that is disturbed at the Temporary Easement line during the Temporary Traffic stage for Division Street needs to be replaced for the final condition. This wall is 2-3' (+/-) in height and is loose stone.

**Date Asked:** 05/17/2019**Date Answered:** 05/20/2019**Poster:** Anthony Mesiti**Company:** Cardi Corporation**Question:**

Item 824.0424 - structural steel. We calculate 558,000 lbs for the bridge and 2107 lbs for the stainless steel. Please clarify where the remaining 45,000 lbs is located.

**Answer:**

An extra 5% was added for miscellaneous steel.

**Date Asked:** 05/17/2019**Date Answered:** 05/20/2019**Poster:** Anthony Mesiti**Company:** Cardi Corporation**Question:**

ITEM 935.0400 - MICRO MILLING. PLEASE CLARIFY THE LIMITS OF THE MICRO MILLING FOR DIVISION STREET TEMPORARY (2115 SY) AS SHOWN ON THE DOQ.

**Answer:**

Item 935.0400 Micro Milling for Temporary Division Street is to regrade the pavement at the tie-ins. Limits are estimated between STA 144+48.72 to STA 145+72.20 on the west side and STA 154+55.00 to STA 156+11.61 for a total of 2115 SY.

**Date Asked:** 05/17/2019**Date Answered:** 05/17/2019**Poster:** Anthony Mesiti**Company:** Cardi Corporation**Question:**

Per section 805.01.04 Design and Approval of Soldier Pile and lagging states that soldier pile and lagging shall be installed in accordance with the design and details provided on the plans. There are no details or design for the soldier piles and lagging on the plans.

**Answer:**

Design and detailing of soldier pile walls shall be done by the Contractor. The locations of the walls will be as shown on the plans.

**Date Asked:** 05/17/2019**Date Answered:** 05/17/2019**Poster:** Anthony Mesiti**Company:** Cardi Corporation

**Question:**

Item no. 805.4100 - Soldier Piles. DOQ shows 20 ea but plans show 9 each at the west abutment and 7 each at the east abutment. Please clarify where the remaining 4 is located.

**Answer:**

Quantity will be updated via Addendum.

**Date Asked:** 05/17/2019

**Date Answered:** 05/17/2019

**Poster:** Anthony Mesiti

**Company:** Cardi Corporation

**Question:**

Please clarify that item 804.9905 preboring is for the drilling of the rock sockets because the RI Std spec for preboring is for soils not rock.

**Answer:**

Yes, this is for preboring into competent rock. Please see special provision for more information.

**Date Asked:** 05/17/2019

**Date Answered:** 05/20/2019

**Poster:** Anthony Mesiti

**Company:** Cardi Corporation

**Question:**

Item No. 410.1000 - Temporary Patching. DOQ states 5% of items 401.100, 401.2000, 401.3000. Please clarify where this item will be used.

**Answer:**

Item 410.1000 Temporary Patching Material/Trenches is assumed to amount to no greater than 5% of the pavement items shown used in areas for a permanent patch of utility trenches and locations where storm sewer or drainage structures are installed. Also for use in filling irregularities/holes in milled surfaces before overlay.

**Date Asked:** 05/16/2019

**Date Answered:** 05/17/2019

**Poster:** Kevin Hubbard

**Company:** MIG Corporation

**Question:**

Will the Asphaltic Expansion Joint System 4.40 be allowed instead of the Alternate Asphaltic Expansion Joint System 4.41?

**Answer:**

Asphaltic Expansion Joint System 4.40 will not be permitted.

**Date Asked:** 05/16/2019

**Date Answered:** 05/20/2019

**Poster:** Anthony Mesiti

**Company:** Cardi Corporation

**Question:**

THE TMP DOES NOT STATE THAT THE FULL CLOSURES AND ROLLING ROADBLOCK FOR RT 4. AND DIVISION IS FOR THE SLIDING AND STEEL BEAM ERECTION ONLY AS STATED IN ONE OF YOUR RESPONSES.

**Answer:**

General Restrictions Table in TMP will be modified via Addendum.

**Date Asked:** 05/16/2019**Date Answered:** 05/20/2019**Poster:** Anthony Mesiti**Company:** Cardi Corporation**Question:**

IN ONE OF YOUR RESPONSES YOU STATE THAT RT 4 CLOSURES (DETOURS) CAN HAPPEN FOR THE STEEL BEAM ERECTION. PLEASE CLARIFY THAT RT 4 CAN BE DETOURED FROM 11 PM TO 6 AM TO ERECT THE STEEL BEAMS.

**Answer:**

Contractor shall have between midnight and 4:00AM for beam erection. Revised Restrictions Table will be provided via Addendum.

**Date Asked:** 05/16/2019**Date Answered:** 05/16/2019**Poster:** Anthony Mesiti**Company:** Cardi Corporation**Question:**

When traffic is placed on the bridge in phase 2A in the temporary phase, will both sidewalks on each side of the bridge be open to pedestrians.

**Answer:**

When traffic is on the temporary alignment, the bridge will be closed to pedestrians.

**Date Asked:** 05/16/2019**Date Answered:** 05/17/2019**Poster:** Anthony Mesiti**Company:** Cardi Corporation**Question:**

Please clarify spec. 827.99XX - Hot Dip Galvanized and Factory applied color finish.. Which steel items pertain to this spec.?

**Answer:**

Specification will be removed via Addendum.

**Date Asked:** 05/16/2019**Date Answered:** 05/16/2019**Poster:** Anthony Mesiti**Company:** Cardi Corporation**Question:**

Sheet 99 section F calls for Fill (Gravel Borrow under structures). Please if item 203.050 crushed stone fill under structure is for this fill. If so is gravel or crushed stone required.

**Answer:**

Crushed stone required. Sheet 99 will be updated via Addendum.

**Date Asked:** 05/16/2019**Date Answered:** 05/20/2019

**Poster:** Anthony Mesiti

**Company:** Cardi Corporation

**Question:**

Will the Department allow other means and methods to accomplish the moving of the bridge into it's final location.

**Answer:**

This job will be bid as a bridge slide. However, the Department will consider Value Engineering proposals provided they cause traffic disruptions to the public that are equal to or less than the proposed alternative. Value Engineering specifications will be included via Addendum.

**Date Asked:** 05/16/2019

**Date Answered:** 05/16/2019

**Poster:** Anthony Mesiti

**Company:** Cardi Corporation

**Question:**

Sheet 116 note 1 states that stainless steel plate is paid under item 824.0424. Please clarify if the stainless steel is paid by the lb or is incidental to the item.

**Answer:**

The plates shown on Sheet 116 will be measured and paid by the pound.

**Date Asked:** 05/16/2019

**Date Answered:** 05/16/2019

**Poster:** Anthony Mesiti

**Company:** Cardi Corporation

**Question:**

Sheet 68 states new pier footings shall be class 3/4" hp concrete but the pay item is 3/4" XX concrete. Please clarify which is correct.

**Answer:**

Sheet 68 will be updated via Addendum.

**Date Asked:** 05/16/2019

**Date Answered:** 05/16/2019

**Poster:** Susan Cullen

**Company:** J.H. Lynch & Sons, Inc.

**Question:**

Please clarify the limits in plan view for widening (Pavement Makeup "A") on Route 4.

**Answer:**

These limits will be added to the plans via Addendum.

**Date Asked:** 05/15/2019

**Date Answered:** 05/16/2019

**Poster:** Anthony Mesiti

**Company:** Cardi Corporation

**Question:**

Please clarify that the deck pour is in one pour.

**Answer:**

Please see Sheet 122 for deck pour information.

**Date Asked:** 05/15/2019

**Date Answered:** 05/16/2019

**Poster:** Anthony Mesiti

**Company:** Cardi Corporation

**Question:**

In response to the required construction joints in the new pier cap. Due to the amount of rebar in the cap and rebar extending from the column, it will be very difficult to form(bulkhead) the CJ unless mechanical couplers are used.

**Answer:**

Construction joints in pier cap can be shifted; Contractor can submit proposed construction joint locations for approval.

**Date Asked:** 05/15/2019

**Date Answered:** 05/15/2019

**Poster:** Anthony Mesiti

**Company:** Cardi Corporation

**Question:**

Please clarify if the asphaltic expansion joint is to be completed in ABC duration.

**Answer:**

The asphaltic expansion joint does not need to be completed during the ABC duration. If it is not completed during that time, temporary protective measures for the traveling public will be installed at no additional cost to the Department.

**Date Asked:** 05/15/2019

**Date Answered:** 05/15/2019

**Poster:** Anthony Mesiti

**Company:** Cardi Corporation

**Question:**

Please clarify how the bridge sidewalk closure pour is paid for.

**Answer:**

Sidewalk closure pour shall be paid under Item 808.9901.

**Date Asked:** 05/14/2019

**Date Answered:** 05/15/2019

**Poster:** Anthony Mesiti

**Company:** Cardi Corporation

**Question:**

Please clarify the pay limits of item 808.1503 - bridge median barrier superstructure. We calculated 23 cy for the median barrier on the bridge portion not the 40 cy shown in the DOQ.

**Answer:**

Quantity will be updated via Addendum.

**Date Asked:** 05/14/2019

**Date Answered:** 05/15/2019

**Poster:** Anthony Mesiti

**Company:** Cardi Corporation



**Question:**

Item 808.1502 - Bridge Sidewalk superstructure. We calculate 73 CY for the bridge super sidewalk not the 95 CY in the DOQ. Please clarify if the bridge approach sidewalk substructure is included in this item.

**Answer:**

Item 808.1502 covers the sidewalks on the approaches. Quantity will be updated via Addendum.

**Date Asked:** 05/14/2019**Date Answered:** 05/15/2019**Poster:** Anthony Mesiti**Company:** Cardi Corporation**Question:**

Sheet 116 note 2 states that "Studs shall be paid for under item 824.0610" Please clarify how they are paid for or they incidental.

**Answer:**

The studs shown on Sheet 116 shall be measured and paid per each. These studs are part of the quantity estimated in the DOQ.

**Date Asked:** 05/14/2019**Date Answered:** 05/15/2019**Poster:** Anthony Mesiti**Company:** Cardi Corporation**Question:**

Please clarify how the mech. couplers are paid for.

**Answer:**

Mechanical couplers shall be considered incidental to Item 810.0210.

**Date Asked:** 05/14/2019**Date Answered:** 05/15/2019**Poster:** Anthony Mesiti**Company:** Cardi Corporation**Question:**

Please clarify how the following items of work are paid for: Concrete End Diaphragms, Temp. Pile Caps, Temporary and New Backwalls, Concrete Cross Girders, Abutment Caps, and Cheekwalls.

**Answer:**

The abutment caps, backwalls, cross girders and cheekwalls are contained in Item 808.0505. This covers proposed and temporary. The abutment and pier diaphragms are included in Item 808.1501.

**Date Asked:** 05/14/2019**Date Answered:** 05/15/2019**Poster:** Anthony Mesiti**Company:** Cardi Corporation**Question:**

Please clarify how the keeper blocks are paid for.

**Answer:**

Keeper blocks shall be paid under Item 808.0601.

**Date Asked:** 05/14/2019

**Date Answered:** 05/15/2019

**Poster:** Anthony Mesiti

**Company:** Cardi Corporation

**Question:**

Please clarify if there are required construction joints in the new pier cap as shown on the plans.

**Answer:**

Construction Joints are required in the proposed cap. Joints are shown on the plans above Columns 2 and 4.

**Date Asked:** 05/14/2019

**Date Answered:** 05/15/2019

**Poster:** paul grimaldi

**Company:** J. F. WHITE CONTRACTING CO.

**Question:**

please reference--JS pages 51 & 52---codes 805.9901 & 805.9902---METHOD OF MEASUREMENT section-----the fifth paragraph that begins " In no case will an area of wall be measured for payment ..... " , seems to contradict the previous 4 paragraphs-----Please Clarify

**Answer:**

Paragraph will be removed by Addendum.

**Date Asked:** 05/13/2019

**Date Answered:** 05/14/2019

**Poster:** Anthony Mesiti

**Company:** Cardi Corporation

**Question:**

Item 808.0501 includes 50 cy for rock sockets. Please clarify that this is for the backfilling of the rock sockets with 4000 psi concrete.

**Answer:**

Correct. The 50CY is for the backfilling of the Rock Sockets.

**Date Asked:** 05/13/2019

**Date Answered:** 05/14/2019

**Poster:** Anthony Mesiti

**Company:** Cardi Corporation

**Question:**

Item 805.9903 - MSE walls Precast Concrete Facing - DOQ shows 1100 SY but we calculate 398 SY. We think the difference is the DOQ includes 630 SY for the backwall but there is no precast panels in the backwall area.

**Answer:**

Quantity will be updated via Addendum.

**Date Asked:** 05/13/2019

**Date Answered:** 05/14/2019

**Poster:** Anthony Mesiti

**Company:** Cardi Corporation

**Question:**

Please clarify how the quantity for 803.0500 - 43,900 sf was calculated. Is this for the existing bridge only, if so we calculate approx. 18,500 sf for the interior and overhang shielding.

**Answer:**

The limits for protective shielding include the space between the interior beams, the overhang and the vertical shielding to the limits outlined in the September 2018 Compilation of Approved Specifications. These limits are applied to the removal of the existing bridge. Quantity will be updated via addendum.

**Date Asked:** 05/13/2019**Date Answered:** 05/16/2019**Poster:** Anthony Mesiti**Company:** Cardi Corporation**Question:**

Please clarify if shielding of the existing bridge is mandatory or can RT. 4 be detoured to demo the superstructure.

**Answer:**

Detours and closures are only permitted as per in the TMP. For bridge slide and beam erection.

**Date Asked:** 05/13/2019**Date Answered:** 05/14/2019**Poster:** paul grimaldi**Company:** J. F. WHITE CONTRACTING CO.**Question:**

Does the Contract Value to calculate the Contract Goal of 13% DBE participation include Pay items 001 ICT 1, 002 ICT 2 and 003 ICT3?

**Answer:**

Yes

**Date Asked:** 05/13/2019**Date Answered:** 05/14/2019**Poster:** Robert Berry**Company:** J F White Contracting**Question:**

Please confirm that a Materials Laboratory is not required for this project.

**Answer:**

A Materials Lab is not required for this project.

**Date Asked:** 05/13/2019**Date Answered:** 05/13/2019**Poster:** paul grimaldi**Company:** J. F. WHITE CONTRACTING CO.**Question:**

The distribution of quantities and pay item 005 - 201.0401 Remove and Dispose Granite Curb appears to be SGC-Stockpile Granite Curb per General Plans. Please Clarify

**Answer:**

A new symbol will be added to the plans for DCG: Remove and Dispose Granite Curb. Plans will be updated via Addendum.

**Date Asked:** 05/13/2019**Date Answered:** 05/15/2019**Poster:** paul grimaldi**Company:** J. F. WHITE CONTRACTING CO.**Question:**

Whati item is peastone under approach slab paid?

**Answer:**

Peastone will be changed to Gravel Borrow. Plan sheet and DOQ will be updated via Addendum.

**Date Asked:** 05/13/2019**Date Answered:** 05/14/2019**Poster:** paul grimaldi**Company:** J. F. WHITE CONTRACTING CO.**Question:**

Specification Section 805.9901 and 805.9902 Basis of payment states that backfill will be paid under item 202.0800. Please provide a pay item for this work.

**Answer:**

Item 202.0800 Gravel Borrow will be added via Addendum. Item 202.0700 Common Borrow will be reduced via Addendum.

**Date Asked:** 05/13/2019**Date Answered:** 05/13/2019**Poster:** Anthony Mesiti**Company:** Cardi Corporation**Question:**

Please show the limits of the clearing and grubbing on the general plans.

**Answer:**

The limits of regrading (LOR) are also the limits of clearing and grubbing.

**Date Asked:** 05/10/2019**Date Answered:** 05/13/2019**Poster:** Anthony Mesiti**Company:** Cardi Corporation**Question:**

Will the department allow steel girders to be galvanized and painted in lieu of metallizing and painting?

**Answer:**

No, steel girders shall be metalized and painted.

**Date Asked:** 05/10/2019**Date Answered:** 05/13/2019**Poster:** Anthony Mesiti**Company:** Cardi Corporation

**Question:**

Please provide a camber chart for the steel girders.

**Answer:**

Camber chart will be provided via Addendum.

**Date Asked:** 05/09/2019

**Date Answered:** 05/14/2019

**Poster:** Mike Sarrasin

**Company:** John Rocchio Corporation

**Question:**

Bid Item 041 701.8112 - 12 INCH GATE VALVE AND BOX 10 EACH. There are no gate valves shown on the Drainage and Utility Plans. The Distribution of Quantities gives the locations as BR 760 EAST AND WEST PROP. LOCATIONS. What are the locations of these valves?

**Answer:**

Gate Valve locations will be added to the D&U plans. These locations will be finalized by the Contractor as part of the Utility Submission. See Special Provisions 701.9901-701.9904.

**Date Asked:** 05/09/2019

**Date Answered:** 05/13/2019

**Poster:** Mike Sarrasin

**Company:** John Rocchio Corporation

**Question:**

Bid Item 040 701.5812 12 INCH DUCTILE IRON WATER PIPE CLASS 56, MECHANICAL JOINT 400.00 LF. The Distribution of Quantities gives the location as DIVISION STREET STA 47+86 TO 51+82, which includes the pipe across the bridge. Where are Bid Items 044 701.9903 12" DUCTILE IRON WATER PIPE - INSULATED - PROPOSED 240 LF and 045 701.9904 12" DUCTILE IRON WATER PIPE - NON-INSULATED - PROPOSED 90 LF? Please clarify the quantities and location of the DIP.

**Answer:**

Item 701.5812 will be removed by Addendum.

**Date Asked:** 05/09/2019

**Date Answered:** 05/14/2019

**Poster:** Mike Sarrasin

**Company:** John Rocchio Corporation

**Question:**

Sheet 133 shows 12" insertion valves at the connections to the existing water line. These are not shown on the Drainage and Utility Plans and there is no bid item for these valves.

**Answer:**

Insertion Valves will be added to the D&U Plans via Addendum. These items will be considered incidental to item 701.9902. Language will be added to the Specification to clarify this.

**Date Asked:** 05/09/2019

**Date Answered:** 05/10/2019

**Poster:** Anthony Mesiti

**Company:** Cardi Corporation

**Question:**

The temporary utility bridge includes W36 beams at 120'-6" lengths, these are long lengths, a splice will be needed. Please provide a splice detail.

**Answer:**

As per Note 3 on Sheet 133 and Section 802.9901 of the Special Provisions, the drawings shown are schematic and the Contractor shall design and detail all components of the Temporary Utility Bridge and submit them for approval.

**Date Asked:** 05/09/2019**Date Answered:** 05/10/2019**Poster:** Anthony Mesiti**Company:** Cardi Corporation**Question:**

please clarify if the diamond grinding of the deck needs to be completed during the ABC duration before traffic is placed on the bridge. If so does the closure pour need to be at full strength before it is grinded.

**Answer:**

The diamond grinding does not need to be performed during the ABC period. The closure pour needs to be at full strength before diamond grinding shall begin.

**Date Asked:** 05/09/2019**Date Answered:** 05/14/2019**Poster:** Anthony Mesiti**Company:** Cardi Corporation**Question:**

Please clarify the pay limits for the protective shielding.

**Answer:**

The limits for protective shielding include the space between the interior beams, the overhang and the vertical shielding to the limits outlined in the September 2018 Compilation of Approved Specifications. These limits are applied to the removal of the existing bridge. Quantity will be updated via addendum.

**Date Asked:** 05/09/2019**Date Answered:** 05/09/2019**Poster:** Anthony Mesiti**Company:** Cardi Corporation**Question:**

Does the gas line have to installed by an approved national grid contractor. If so please provide a list of approved contractors.

**Answer:**

Yes, the gas line installation must be approved by an approved National Grid Subcontractor. A list of approved subcontractors will be provided via Addendum.

**Date Asked:** 05/09/2019**Date Answered:** 05/10/2019**Poster:** Anthony Mesiti**Company:** Cardi Corporation

**Question:**

The closure pour for the permanent bridge is a 3/8" hp concrete. Please clarify if the closure pour has to be completed in the ABC duration. If so what strength and curing time is required for the closure pour before traffic is put on the bridge.

**Answer:**

The closure pour shall be completed in the ABC duration. Section 808.9901 will be modified and clarified via Addendum.

**Date Asked:** 05/09/2019**Poster:** Michelle Ingram**Date Answered:** 05/13/2019**Company:** Liddell Brothers, Inc.**Question:**

Referencing back to the question asked on 5/7/2019 for the GS-1 Sign Location we disagree with your findings. Under Method of Measurement Section T.16.04.1 Ground Mounted Primary Directional Sign Panels are to be paid under its own respective Item Section T.16.04.2 Ground Mounted Primary Directional Sign Post – Steel Breakaway are to be paid under its own respective Item also. Under Basis of Payment T.16.05.1 is for the Extruded Aluminum Sign Panels and T.16.05.2 is for the Sign Post-Steel Breakaway with the Foundation, Breakaway Coupling and Restoration of ground surface area. For this one location the Item Codes should be: T16.0100 GROUND MOUNTED PRIMARY DIRECTIONAL SIGN PANELS EXTRUDED ALUMINUM 24 S.F. T16.0300 GROUND MOUNTED PRIMARY DIRECTIONAL SIGN POST-STEEL BREAKAWAY 2 EACH Please advise

**Answer:**

Item T16.0100 Ground Mounted Preliminary Directional Sign Panels Extruded Aluminum is the pay item for the sign panel for the GS-1. Item T16.0300 Ground Mounted Primary Directional Sign Post-Steel Breakaway will be added and is the pay item for the 2 sign posts required.

**Date Asked:** 05/08/2019**Poster:** Michelle Ingram**Date Answered:** 05/13/2019**Company:** Liddell Brothers, Inc.**Question:**

Please provide job specific specifications for Item Code T17.0203 and Item Code T17.0211.

**Answer:**

Items T17.0203 and T17.0211 will be removed and replaced with Items T17.9902 and T17.9903 by Addendum. Special provisions will also be provided via Addendum.

**Date Asked:** 05/08/2019**Poster:** Anthony Mesiti**Date Answered:** 05/10/2019**Company:** Cardi Corporation**Question:**

Are Stay-in-place forms allowed?

**Answer:**

Yes, stay-in-place forms are allowed for the underside of the bridge deck.

**Date Asked:** 05/08/2019**Date Answered:** 05/08/2019**Poster:** Mike Sarrasin**Company:** John Rocchio Corporation**Question:**

The CD only includes sheets 1 - 69 in the "Volume 1 Plan Sheets" folder. Sheets 70 - 134 are missing.

**Answer:**

All sheets are available in pdf file "Plans-Volume 1" in folder named Plans. Plans are also linked through "Start\_Page".

**Date Asked:** 05/08/2019**Date Answered:** 05/09/2019**Poster:** Mike Sarrasin**Company:** John Rocchio Corporation**Question:**

CODE 701.9905 INSTALL 6" GAS MAIN ACROSS BRIDGE CODE 701.9906  
INSTALL 6" GAS MAIN ACROSS TEMPORARY UTILITY BRIDGE CODE 701.9907  
INSTALL 6" GAS MAIN The majority of the work in these items is by National Grid. The only work for the Bridge Contractor is installing sleeves furnished by National Grid. Is the cost work by National Grid to be included in these Bid Items? If so, we request these items be made allowances.

**Answer:**

The majority of the gas work will be performed by a National Grid approved Subcontractor. This will be clarified via Addendum.

**Date Asked:** 05/07/2019**Date Answered:** 05/13/2019**Poster:** Michelle Ingram**Company:** Liddell Brothers, Inc.**Question:**

Under what Item Code will the Removal and Disposal of the Sign Structure and Foundation located @ Sta. 428+60 Route 4 NB be paid under?

**Answer:**

Item 201.0623 will be added via Addendum.

**Date Asked:** 05/07/2019**Date Answered:** 05/08/2019**Poster:** Michelle Ingram**Company:** Liddell Brothers, Inc.**Question:**

Under Item Code T17.9901 Overhead Structure 81 to 85 Ft. Span there is no detail or specification provided and it is not identified on the Sign Plans.

**Answer:**

Specification and Quantity will be eliminated via Addendum.



**Date Asked:** 05/07/2019

**Date Answered:** 05/08/2019

**Poster:** Michelle Ingram

**Company:** Liddell Brothers, Inc.

**Question:**

Under Item Code T17.0100 Overhead Sign Panels @ 220 SF, there is 556.75 SF required, 336.75 SF additional needs to be added.

**Answer:**

Quantity for Item Code T17.0100 will be updated in an Addendum.

**Date Asked:** 05/07/2019

**Date Answered:** 05/08/2019

**Poster:** Michelle Ingram

**Company:** Liddell Brothers, Inc.

**Question:**

Under what Item will the 2 each Ground Mounted Primary Directional Sign Posts be paid under for the GS-1 Sign location?

**Answer:**

The posts are incidental to Item T16.0100 as per the RIDOT Standard Specifications for Road and Bridge Construction 2004 Edition (Amended March 2018).

**Date Asked:** 05/07/2019

**Date Answered:** 05/08/2019

**Poster:** Michelle Ingram

**Company:** Liddell Brothers, Inc.

**Question:**

Under what Item will the Removal and Disposal of 3 each Bridge Mounted Sign Structures and Sign Panels be paid under?

**Answer:**

Removal and Disposal of Bridge Mounted Sign Structures is paid under Item 201.0622.

**Date Asked:** 05/06/2019

**Date Answered:** 05/13/2019

**Poster:** Robert Berry

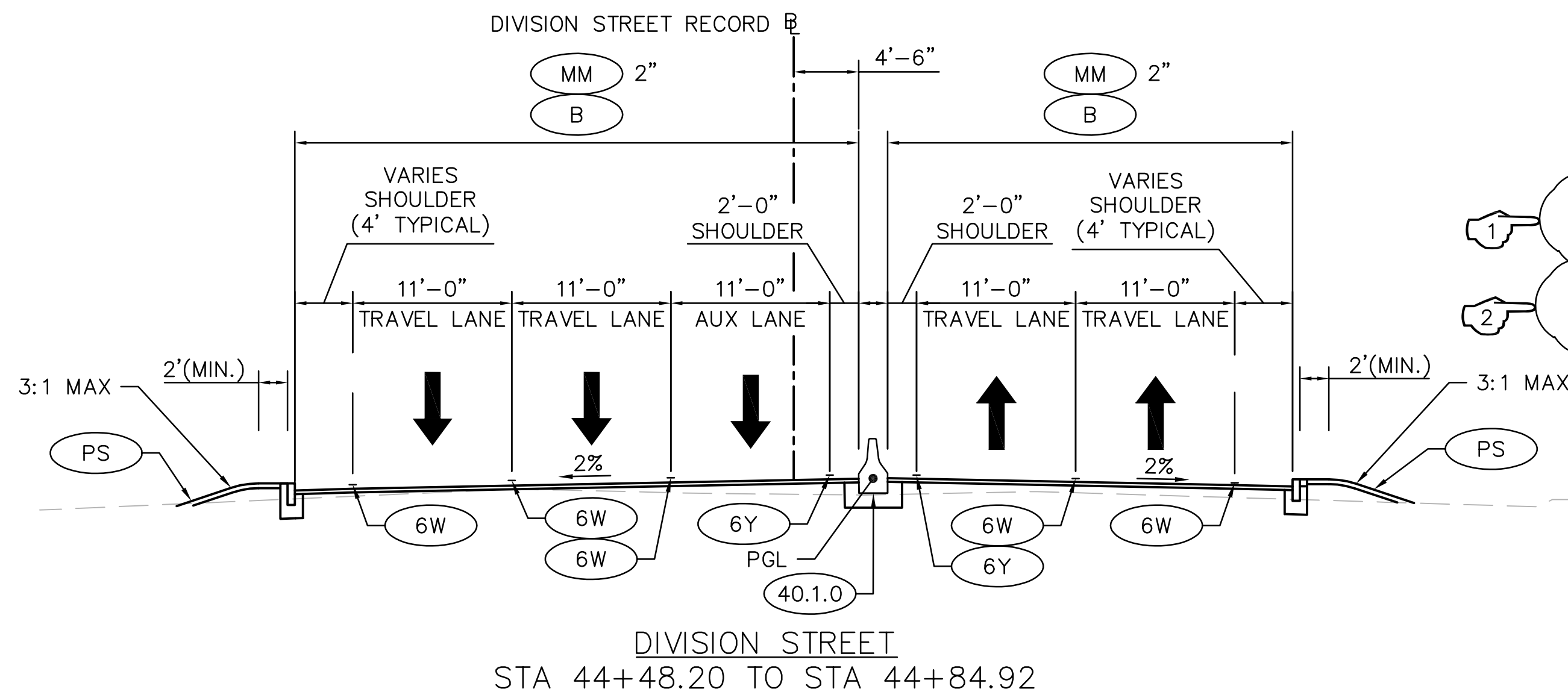
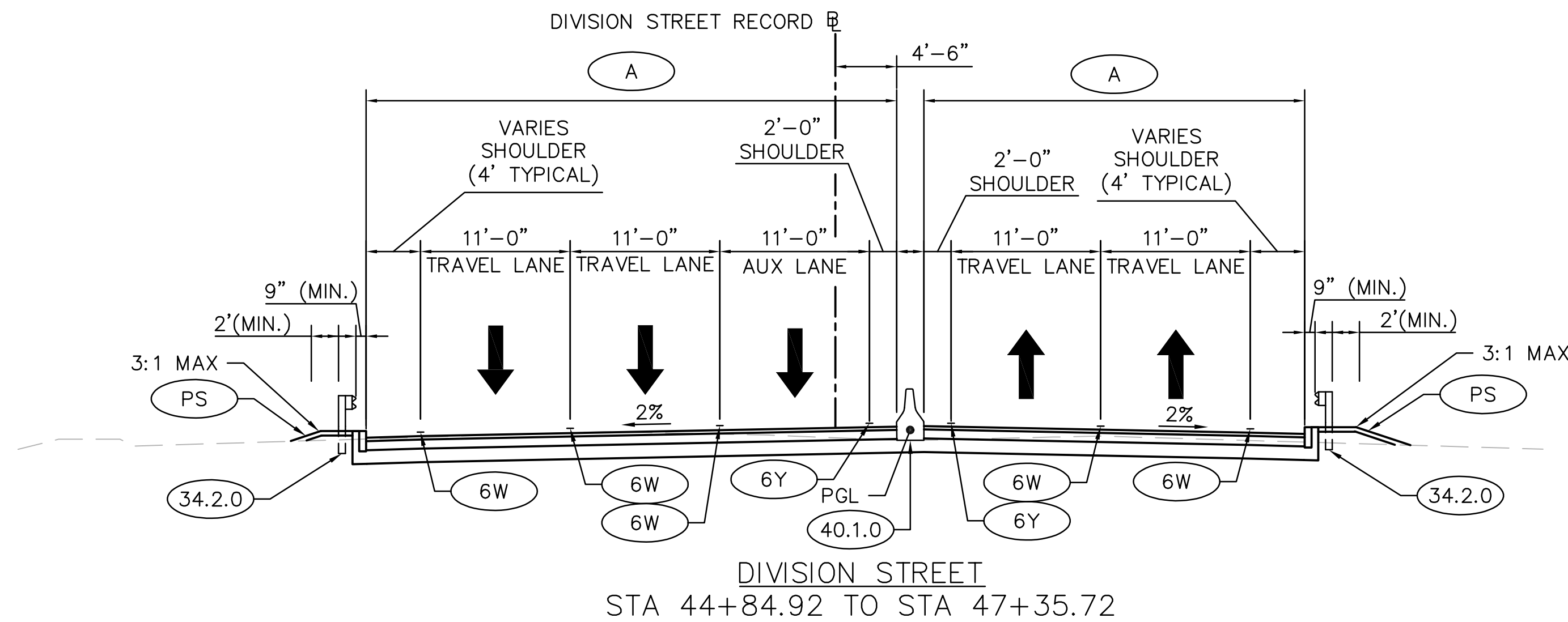
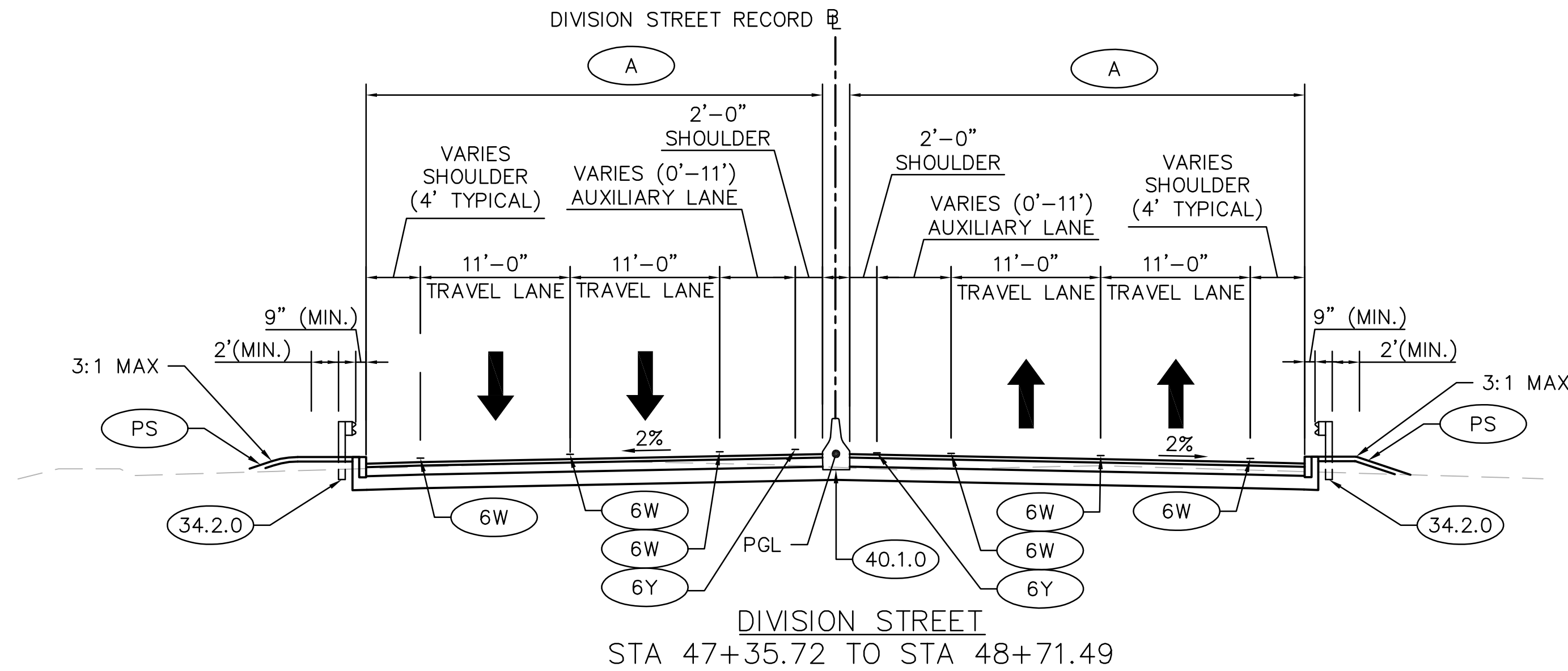
**Company:** J F White Contracting

**Question:**

We respectfully request that Department consider postponing the bid to later in the week, as the current bid date is the day after a 3-day holiday weekend, and we foresee problems getting timely quotes from vendors and subcontractors.

**Answer:**

This will be clarified by an Addendum.



JOB SPECIFIC LEGEND:

RSR REMOVE STOCKPILE AND RECONSTRUCT STONE WALL

CFS COMPOST FILTER SOCK

TBG THRIE BEAM GUARDRAIL

OSS OVERHEAD SIGN STRUCTURE 66-70 FOOT SPAN - STEEL

OCS OVERHEAD SIGN STRUCTURE 26-30 FOOT CANTILEVER - STEEL

RDS REMOVE AND DISPOSE OVERHEAD SIGN PANEL

RLD REPLACE LOOP DETECTOR

RTP RETAIN TRAFFIC POLE

4.2.3 PRECAST 4'-0" ROUND MANHOLE WITH MEMBRANE FILTER JF6-6-1

40.5.1 MASH COMPLIANT TL-4 TEMPORARY CONCRETE BARRIER

RES RETAIN SIGN

RSL REMOVE AND STOCKPILE LIGHT POST AND FOUNDATION  
INSTALL LIGHT POST AND FOUNDATION

WYL WHITE YIELD LINE

34.3.5 GUARDRAIL CONNECTION TO EXISTING END POST APPROACH END SECTION

34.3.6 GUARDRAIL CONNECTION TO EXISTING END POST TRAILING END SECTION

6SS 6" EPOXY RESIN PAVEMENT MARKINGS - WHITE (4' SPACE/2' STRIPE)

MCB MODIFIED PRECAST PERPENDICULAR DOUBLE GRATE CATCH BASIN 4' SQUARE

DGC REMOVE AND DISPOSE GRANITE CURB

REVISIONS		
NO.	DATE	BY
1	5/19	RGN
2	6/19	RGN

RHODE ISLAND  
DEPARTMENT OF TRANSPORTATION

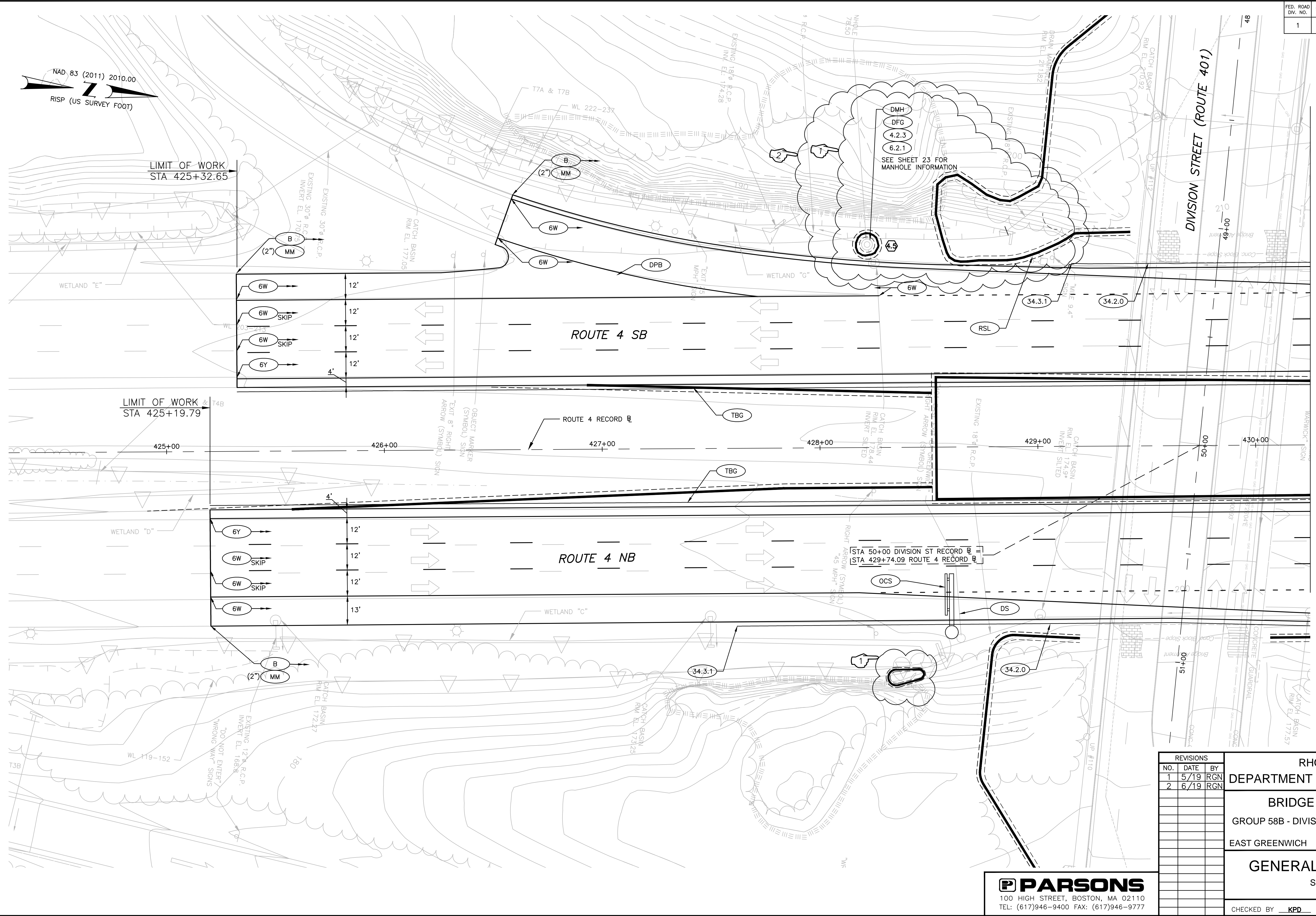
BRIDGE REPLACEMENT  
GROUP 58B - DIVISION STREET BRIDGE NO. 760  
EAST GREENWICH RHODE ISLAND

TYPICAL SECTION 1 AND JOB  
SPECIFIC LEGEND  
SHEET 1 OF 3

CHECKED BY RGN DATE 4/9/2019 SCALE NO SCALE

**PARSONS**  
100 HIGH STREET, BOSTON, MA 02110  
TEL: (617)946-9400 FAX: (617)946-9777

FED. ROAD DIV. NO.	STATE	FEDERAL AID PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
1	RI	BRO-0760(003)	2018	14	134



MATCH LINE TO GENERAL PLAN ROUTE 4 SHEET 2

[illegible]

RHODE ISLAND  
DEPARTMENT OF TRANSPORTATION

## BRIDGE REPLACEMENT

### GROUP 58B - DIVISION STREET BRIDGE NO. 760

EAST GREENWICH RHODE ISLAND

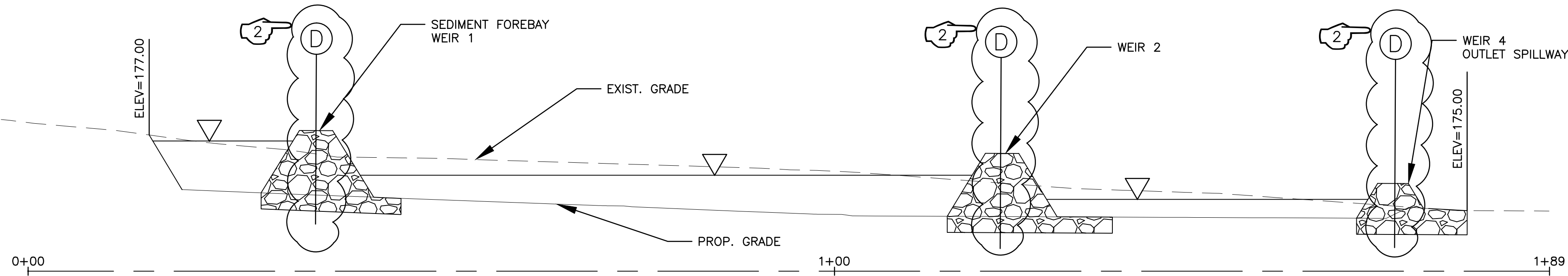
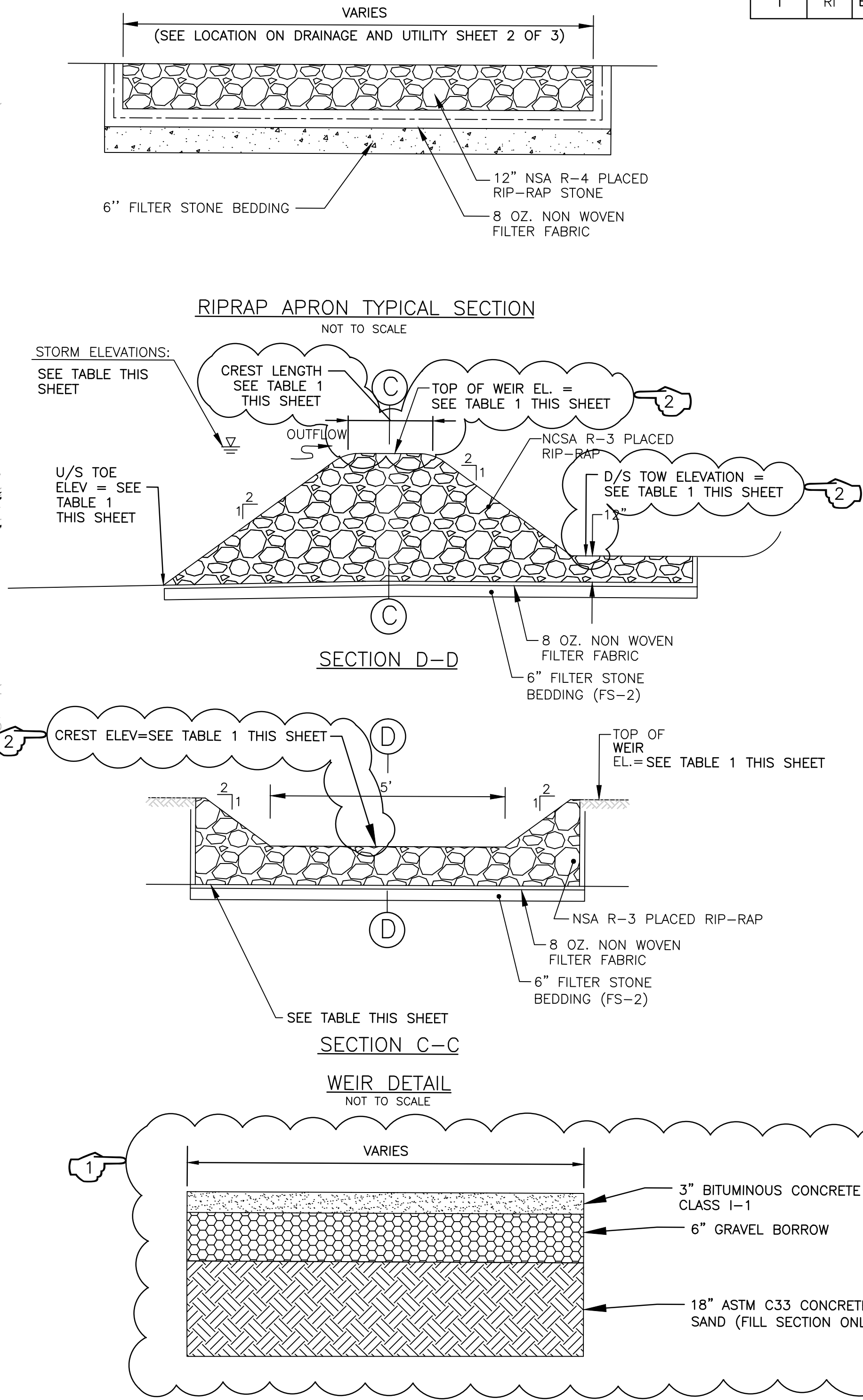
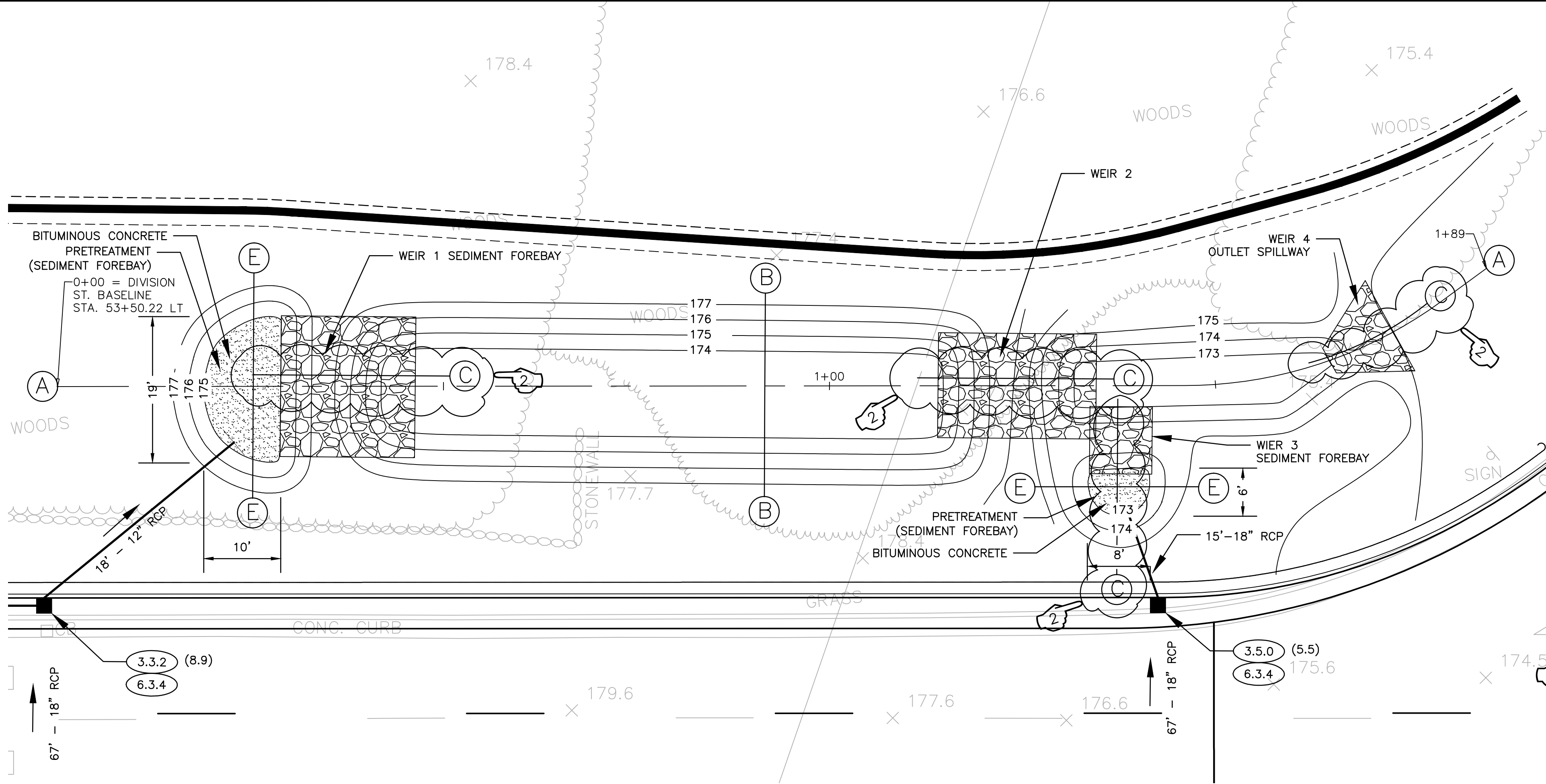
# GENERAL PLAN ROUTE 4

SHEET 4 OF 5

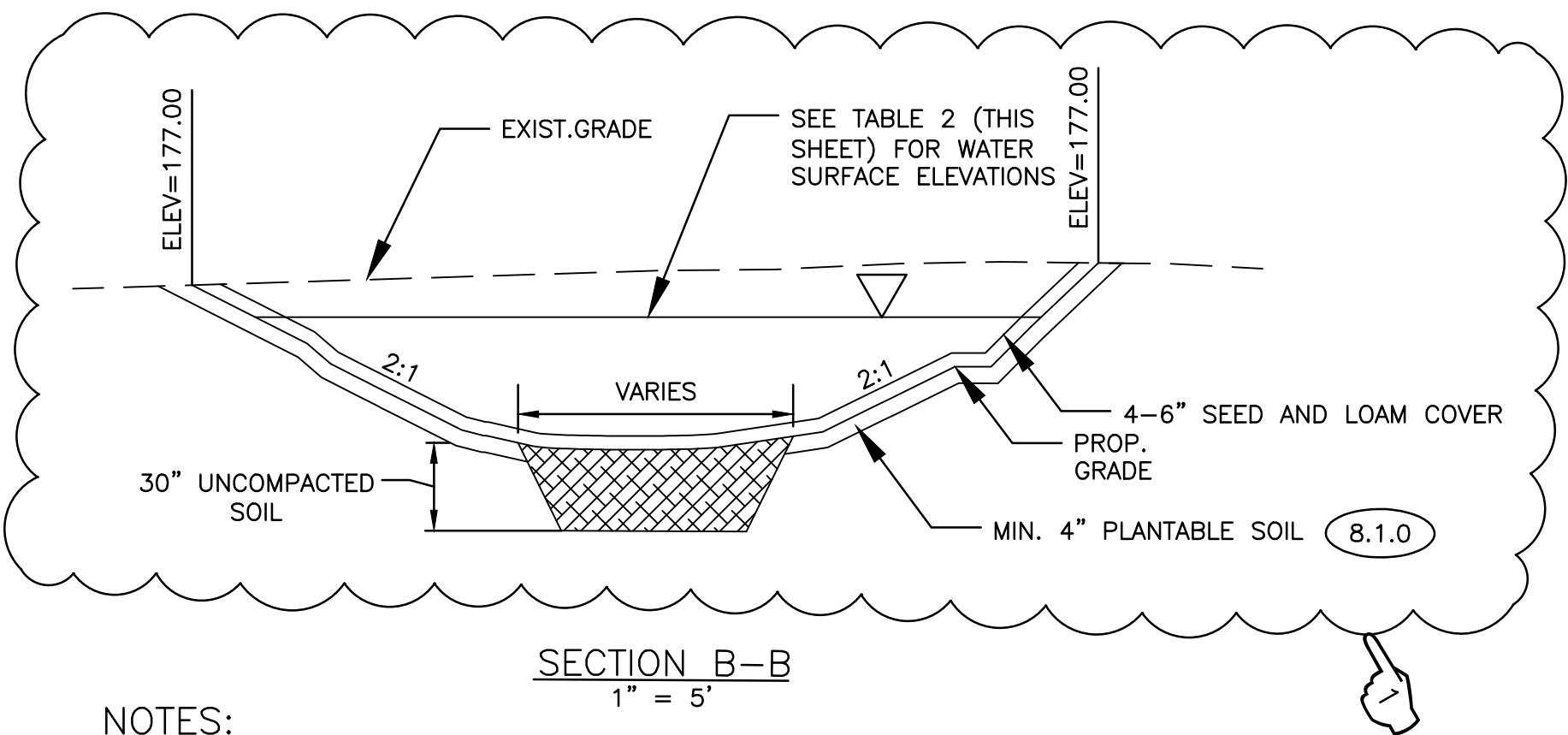
CHECKED BY KPD DATE 02/17/17 SCALE 1"=20'

**P PARSONS**  
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SECTION A-A  
1" = 10'



SECTION B-B  
1" = 5'

NOTES:  
1. BOTTOM OF BASIN SHALL BE EXCAVATED TO 30" BELOW FINAL GRADE AND LOOSELY BACKFILLED WITHOUT COMPACTION.

TABLE 1

ID	CREST ELEV.	U/S TOE ELEV.	D/S TOE ELEV.	TOP OF WEIR ELEV.	CREST LENGTH
WEIR - 1	178	176	174	179	10
WEIR - 2	177	174	173	178	10
WEIR - 3	174.5	173	173	175.5	4
WEIR - 4	174.5	173	174	175.5	10

(SEE SECTION C-C AND D-D THIS SHEET)

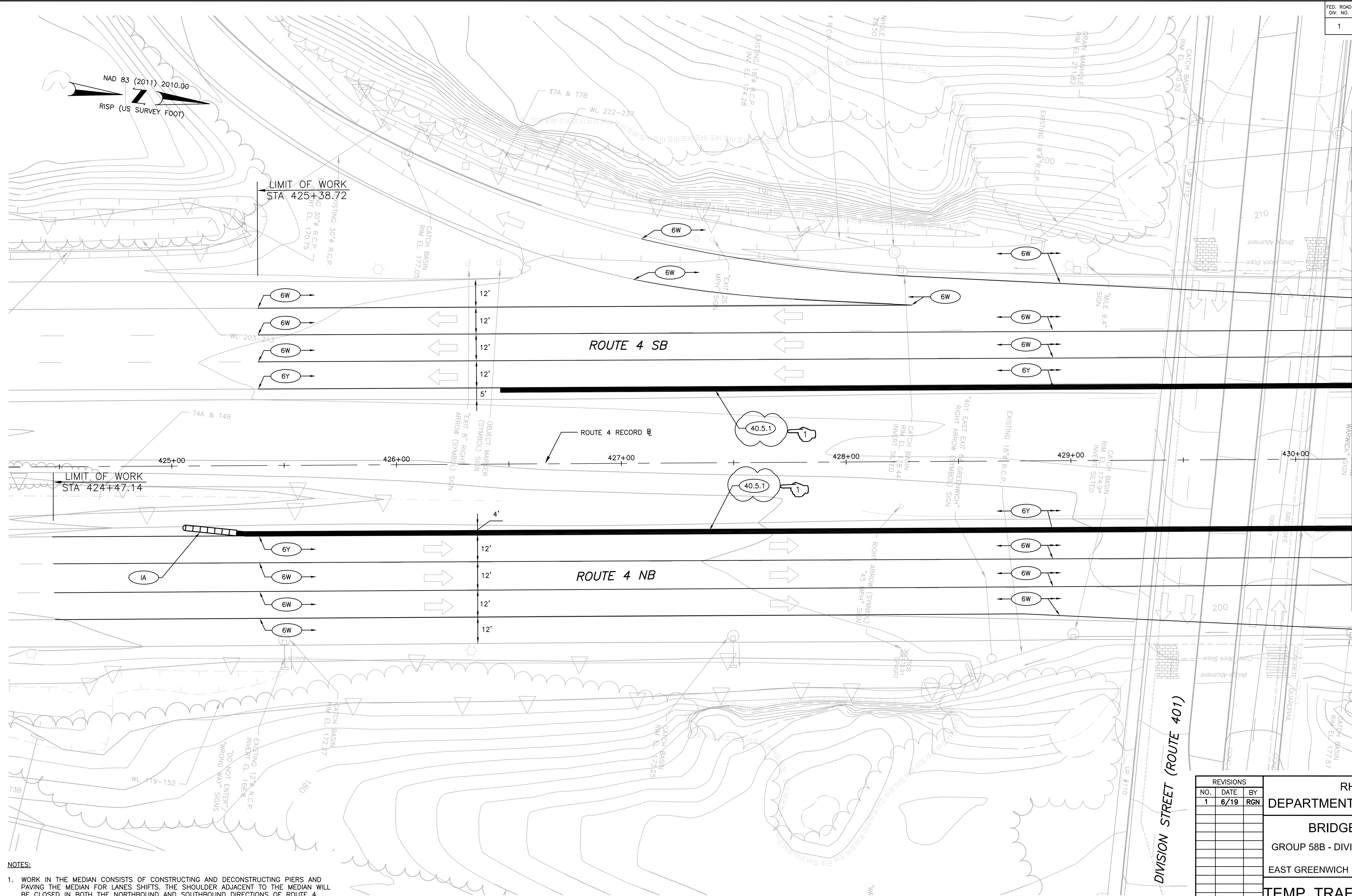
TABLE 2

STORM EVENT YEAR	WATER SURFACE ELEV.			
	SEDIMENT FOREBAY 1	BASIN 1	SEDIMENT FOREBAY 2	SPILLWAY
10	178.49	177.49	174.84	175.07
25	178.56	177.56	174.88	175.14
100	178.66	177.66	174.93	175.25

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REVISIONS			RHODE ISLAND DEPARTMENT OF TRANSPORTATION	
NO.	DATE	BY	BRIDGE REPLACEMENT	
1	5/19	RGN	GROUP 58B - DIVISION STREET BRIDGE NO. 760	
2	6/19	RGN	EAST GREENWICH RHODE ISLAND	
			DETENTION BASIN DETAILS	
			SHEET 1 OF 1	
			CHECKED BY <u>KPD</u> DATE <u>08/31/18</u> SCALE <u>1"=10'</u>	

FED. ROAD DIV. NO.	STATE	FEDERAL AID PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
1	RI	BRO-0760(003)	2018	40	134

[illegible]

RHODE ISLAND  
DEPARTMENT OF TRANSPORTATION

## BRIDGE REPLACEMENT

### GROUP 58B - DIVISION STREET BRIDGE NO. 760

EAST GREENWICH RHODE ISLAND

# TEMP. TRAFFIC CONTROL PLAN

## TEMPORARY GENERAL PLAN

SHEET 4 OF 7

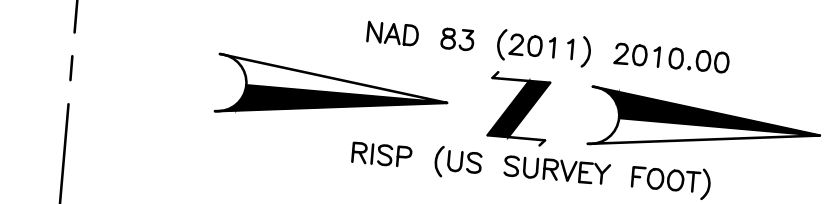
CHECKED BY KPD DATE 02/17/17 SCALE 1"=20'

0156D\_V1\_038-039\_RT 4 STAGE 2 TEMP GENERAL PLANS

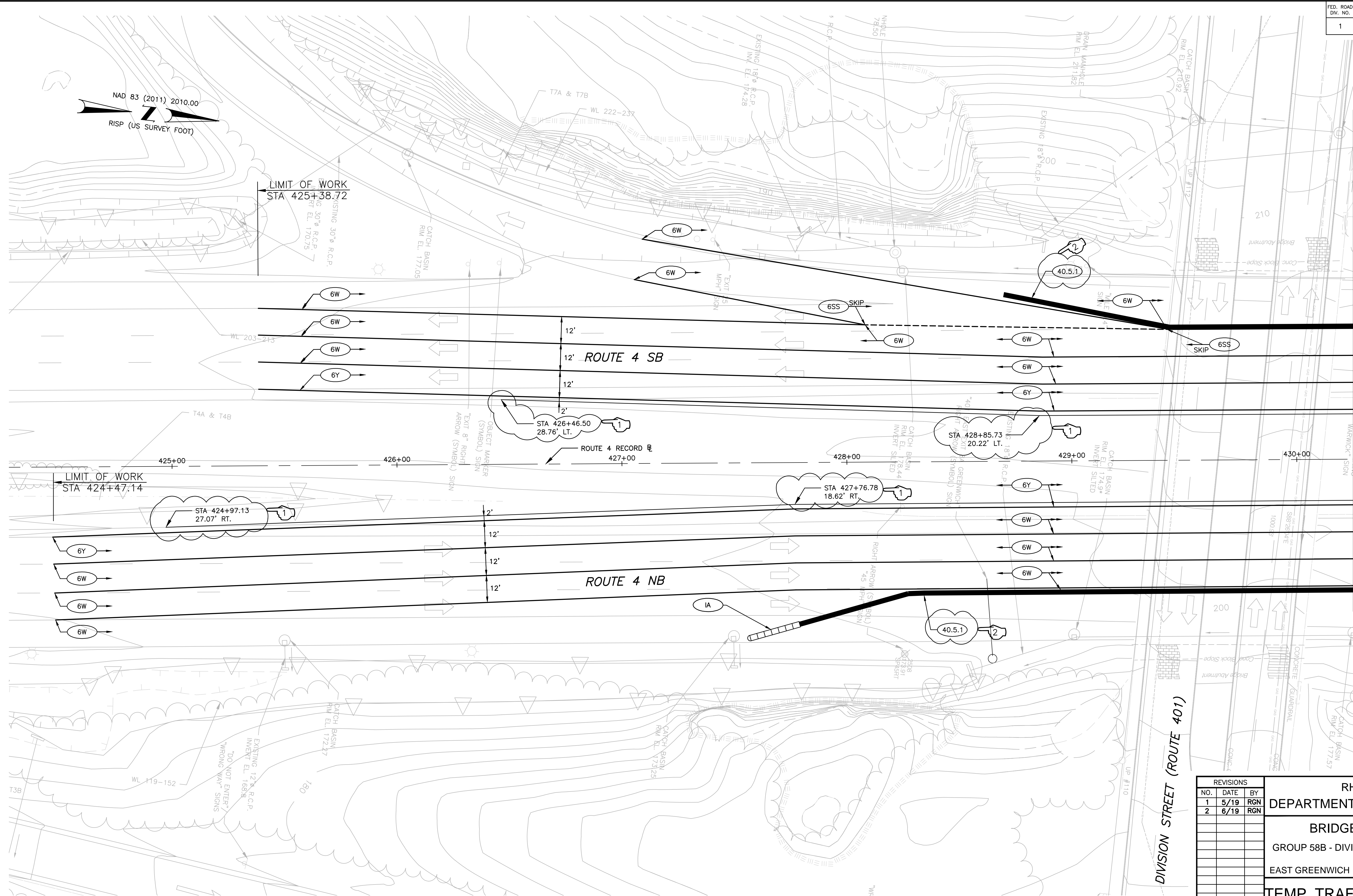
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FED. ROAD DIV. NO.	STATE	FEDERAL AID PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
1	RI	BRO-0760(003)	2018	41	134



FED. ROAD DIV. NO.	STATE	FEDERAL AID PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
1	RI	BRO-0760(003)	2018	42	134



MATCH LINE TO ROUTE 4 GENERAL PLAN SHEET 2

[illegible]

# RHODE ISLAND DEPARTMENT OF TRANSPORTATION

# BRIDGE REPLACEMENT

## GROUP 58B - DIVISION STREET BRIDGE NO. 760

EAST GREENWICH
RHODE ISLAND

# TEMP. TRAFFIC CONTROL PLAN

## TEMPORARY GENERAL PLAN

SHEET 6 OF 7

CHECKED BY KPD DATE 02/17/17 SCALE 1"=20'

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GENERAL NOTES

1. ALL CONSTRUCTION INDICATED ON THESE PLANS SHALL BE IN ACCORDANCE WITH:
- THE 2013 EDITION OF AND SUPPLEMENTS TO THE RHODE ISLAND DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION (RI STANDARD SPECIFICATIONS).
  - THE AMERICAN ASSOCIATION OF STATE HIGHWAY AND TRANSPORTATION OFFICIALS (AASHTO) LRFD BRIDGE CONSTRUCTION SPECIFICATIONS, 3RD EDITION, 2010, INCLUDING THE 2016 INTERIM REVISIONS.
  - THE SPECIFICATIONS ACCOMPANYING THESE PLANS.
2. DIMENSIONS, STATIONS, AND ELEVATIONS ARE SHOWN TO THE NEAREST ONE-HUNDREDTH OF A FOOT OR ONE-EIGHTH OF AN INCH, EXCEPT STRUCTURAL STEEL DIMENSIONS WHICH ARE TO THE NEAREST ONE-SIXTEENTH OF AN INCH.
3. ALL ELEVATIONS ARE REFERENCED TO THE NATIONAL GEODETIC VERTICAL DATUM OF 1988 (NGVD 88).
4. COORDINATES USED ON THESE PLANS ARE BASED ON THE STATEWIDE COORDINATE SYSTEM, THE NORTH AMERICAN DATUM OF 1983 (NAD 83).
5. TOPOGRAPHIC CONDITIONS WERE OBTAINED FROM AERIAL PHOTOGRAMMETRY. ACCURACY OF VERTICAL TOPOGRAPHY IS WITHIN ONE-HALF OF A FOOT.
6. FOR BENCH MARKS AND TIES SEE HIGHWAY LOCATION PLANS.
7. ANGLES ARE SHOWN TO THE NEAREST SECOND.
8. ALL WORKING POINTS ARE SHOWN AT THE CENTERLINES OF BEARINGS OF ABUTMENTS AND AT THE CENTERLINES OF PIERS, UNLESS OTHERWISE NOTED.
9. ALL ABUTMENTS AND WALLS ARE DRAWN LOOKING AT THE EXPOSED FACES.
10. THE EXISTING UTILITIES SHOWN ON THE PLANS ARE APPROXIMATE AND WERE LOCATED USING THE BEST AVAILABLE INFORMATION. NO BUILDING SERVICE CONNECTIONS (ELECTRIC, TELEPHONE, GAS, WATER, SANITARY AND OTHERS) ARE SHOWN. THE CONTRACTOR IS TO ASSUME THAT SERVICES TO ALL BUILDINGS ARE PRESENT.
11. BOTH FEDERAL AND STATE LAW (RI. GENERAL LAW 39-1.2) REQUIRE NOTIFICATION OF APPROPRIATE UTILITY COMPANIES BEFORE DIGGING, TRENCHING, BLASTING, DEMOLISHING, BORING, BACK FILLING, GRADING, LANDSCAPING, OR OTHER EARTH MOVING OPERATIONS. IT IS THE CONTRACTOR'S RESPONSIBILITY TO NOTIFY ALL UTILITY COMPANIES (INCLUDING THROUGH THE "DIG SAFE" PROGRAM) TO ENSURE THAT ALL UTILITIES, BOTH UNDERGROUND AND OVERHEAD, HAVE BEEN MARKED BEFORE COMMENCEMENT OF SUCH WORK. THE CONTRACTOR SHOULD UNDERSTAND THAT NOT ALL UTILITIES SUBSCRIBE TO THE "DIG SAFE" PROGRAM. ANY DAMAGE TO EXISTING UTILITIES MARKED IN THE FIELD, OR AS A RESULT OF FAILING TO CONTACT THE APPROPRIATE UTILITY COMPANIES, SHALL BE REPAIRED OR REPLACED (AS DEEMED APPROPRIATE BY THE STATE AND/OR THE IMPACTED UTILITY COMPANY) AT NO ADDITIONAL COST TO THE STATE.
12. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING A SAFE WORK AREA AND SHALL CONSTRUCT TEMPORARY FENCES AND GATES AS REQUIRED TO PREVENT ACCESS TO THE WORK AREA BY UNAUTHORIZED PERSONNEL SUCH WORKS ARE CONSIDERED INCIDENTAL TO THE OVERALL CONSTRUCTION COST AND WILL NOT BE PAID SEPARATELY.

DESIGN DATA

1. DESIGN SPECIFICATIONS

- THE AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS, 7TH EDITION, 2014, INCLUDING ALL INTERIM REVISIONS TO 2016.
- THE RHODE ISLAND LRFD BRIDGE DESIGN MANUAL 2007.
- ALL OTHER APPLICABLE DESIGN SPECIFICATIONS ARE REFERENCED IN SECTION 1 OF THE RHODE ISLAND LRFD BRIDGE DESIGN MANUAL DATED 2007.
- THE 2016 REVISION OF AND SUPPLEMENTS TO THE RHODE ISLAND DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION (RI STANDARD SPECIFICATIONS).
- IN CASE OF CONFLICT, THE RHODE ISLAND LRFD BRIDGE DESIGN MANUAL SHALL GOVERN.

2. LOAD MODIFIERS

THE LOAD MODIFIERS FOR THIS PROJECT ARE AS FOLLOWS:

- THE LOAD MODIFIER FOR DUCTILITY SHALL BE TAKEN AS 1.0 FOR ALL LIMIT STATES.
- THE LOAD MODIFIER FOR REDUNDANCY SHALL BE TAKEN AS
  - 1.05 FOR FRACTURE-CRITICAL MEMBERS UNDER STRENGTH LIMIT STATE.
  - 1.00 FOR ALL OTHER MEMBERS AND LIMIT STATES.
- THE LOAD MODIFIER FOR OPERATIONAL IMPORTANCE SHALL BE TAKEN AS 1.00 FOR ALL LIMIT STATES.

3. LOAD FACTORS

ALL LOAD FACTORS SHALL BE IN ACCORDANCE WITH THE AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS, EXCEPT AS MODIFIED IN THE RHODE ISLAND LRFD BRIDGE DESIGN MANUAL (SPECIFIED BELOW).

- THE LOAD FACTOR FOR STRENGTH AND EXTREME EVENT SHALL BE TAKEN AS ZERO, 1.0 FOR SERVICE WITHOUT LIVE LOAD AND 0.5 AT SERVICE WITH LIVE LOAD.
- THE LOAD FACTOR FOR LIVE LOAD FOR THE EXTREME EVENT I SHALL BE TAKEN AS ZERO.
- THE LOAD FACTOR FOR DEAD LOAD FOR THE EXTREME EVENT I AND EXTREME EVENT II SHALL BE TAKEN AS 1.0
- THE LOAD FACTOR FOR SETTLEMENT FOR ALL LIMIT STATES SHALL BE TAKEN AS 1.0

4. LIVE LOADS

- THE DESIGN VEHICULAR LIVE LOAD SHALL BE THE HL-93 DESIGNATION ADJUSTED FOR DYNAMIC LOAD ALLOWANCE AND MULTIPLE PRESENCE FACTOR.
- THE DESIGN PEDESTRIAN LIVE LOAD SHALL BE 75 PSF.

5. FOUNDATION DESIGN DATA

SPREAD FOOTINGS:

THE FACTORED BEARING RESISTANCE FOR THE VARIOUS TYPES OF BEARING MATERIAL ARE AS FOLLOWS:

LOCATION	TYPE OF BEARING MATERIAL	FACTORED BEARING RESISTANCE (KSF)	
		STRENGTH LIMIT STATES	EXTREME LIMIT STATES
PIER 1	BEDROCK	40	70

6. WIND LOADING DESIGN DATA

THE WIND LOADING DESIGN SHALL BE IN ACCORDANCE WITH THE AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS, THE RHODE ISLAND LRFD BRIDGE DESIGN MANUAL, AND AS MODIFIED HEREIN.

- EXCEPT DURING CONSTRUCTION, THE DESIGN WIND PRESSURE IS BASED ON A DESIGN WIND SPEED OF 110 MPH.
- THE DESIGN WIND PRESSURES DURING CONSTRUCTION SHALL BE AS SPECIFIED UNDER THE NOTES TITLED "GENERAL NOTES REGARDING TEMPORARY CONSTRUCTION CONDITIONS".

7. TRAFFIC DATA

THE BRIDGE REPLACEMENT WILL BE CONSTRUCTED IN TWO STAGES. TRAFFIC MANAGEMENT SHALL BE IN ACCORDANCE WITH THE APPROVED TRAFFIC MANAGEMENT PLAN.

ADT = 13,490 VEH/DAY (OR V.P.D)                      DHV = N/A                      PERCENT OF TRUCK TRAFFIC = 10%

8. THERMAL DESIGN FORCE DATA

UNIFORM TEMPERATURE EFFECTS HAVE BEEN TAKEN INTO CONSIDERATION IN ACCORDANCE WITH THE PROCEDURE B OF THE AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS. THE MINIMUM DESIGN TEMPERATURE SHALL BE -10 DEGREES F, AND THE MAXIMUM TEMPERATURE SHALL BE 105 DEGREES F.

9. SEISMIC DESIGN DATA

- THE SEISMIC ANALYSIS AND DESIGN SHALL BE IN ACCORDANCE WITH THE RHODE ISLAND LRFD BRIDGE DESIGN MANUAL.
- THE COMBINATION OF SEISMIC FORCE EFFECTS IS IN ACCORDANCE WITH THE RHODE ISLAND LRFD BRIDGE DESIGN MANUAL.
- THIS BRIDGE HAS BEEN CLASSIFIED AS CRITICAL.
- THE SITE HAS BEEN CLASSIFIED AS SITE CLASS A.
- SCOUR AND LIQUEFACTION EFFECTS HAVE BEEN CONSIDERED IN THE SEISMIC ANALYSIS OF THE BRIDGE.
- 1,000 YEAR RETURN PERIOD SITE-SPECIFIC EARTHQUAKE.  
5% DAMAGING DESIGN SPECTRUM.  
A<sub>S</sub> = 0.0456  
S<sub>DS</sub> = 0.0976  
S<sub>D1</sub> = 0.0272

MATERIALS

STRUCTURAL STEEL:

- AASHTO DESIGNATION M 270, GRADE 36
- AASHTO DESIGNATION M 270, GRADE 50

REINFORCING STEEL:

- AASHTO DESIGNATION M 31, GRADE 60

CONCRETE STRENGTHS:

- CLASS HP ¾" f'c = 5,000 PSI
  - ABUTMENT CAPS
  - CROSS GIRDERS
  - DECK
  - END DIAPHRAGMS
  - PIER CAP
  - COLUMNS
  - MSE WALL COPING
  - MSE WALL PANELS
  - BARRIERS
  - PIER FOOTING
- CLASS HP ¾" f'c = 5,000 PSI
  - CLOSURE POUR
- CLASS XX ¾" f'c = 4,000 PSI
  - TEMPORARY PIER FOOTING
  - ROCK SOCKETS

BRIDGE/STRUCTURAL SHOP DRAWING AND SUBMITTALS

SEE GENERAL PROVISIONS - CONTRACT SPECIFIC OF THE CONTRACT DOCUMENTS.

CONCRETE NOTES

- CLASSES OF CONCRETE SHALL BE HIGH PERFORMANCE CLASS HP AND CLASS XX, AS DESCRIBED IN THE RI STANDARD SPECIFICATIONS AND THE SPECIAL PROVISIONS OF THE SPECIFICATIONS. REFER TO THE "MATERIAL" NOTES FOR CLASSES OF CONCRETE SPECIFIED FOR VARIOUS COMPONENTS.
- THE CONTRACTOR MAY, AT THE APPROVAL OF THE ENGINEER, PROPOSE THE USE OF SELF-CONSOLIDATING CONCRETE FOR ANY CLASS OF CONCRETE ON THIS PROJECT. SECTION 606 "SELF CONSOLIDATING CONCRETE (SCC)", CONTAINS THE REQUIREMENTS FOR MODIFYING ALL CLASSES OF CONCRETE MIX DESIGN FOR SELF-CONSOLIDATING APPLICATIONS.

3. ALL PORTLAND CEMENT CONCRETE SHALL BE AIR-ENTRAINED.

4. EXCEPT FOR FOOTINGS CAST BELOW GRADE AND TEMPORARY ELEMENTS, ALL REINFORCING STEEL SHALL BE GALVANIZED. ALL WIRE TIES AND MISCELLANEOUS HARDWARE USED FOR PLACEMENT OF GALVANIZED REINFORCING SHALL ALSO BE GALVANIZED. GALVANIZED COATING FOR REINFORCING STEEL SHALL BE IN ACCORDANCE WITH SECTION 810 OF THE RIDOT STANDARD SPECIFICATION.

5. ALL CRITICAL LAP SPLICES SHALL BE AS SHOWN ON THE PLANS. ALL SPLICES NOT SHOWN ON THE PLANS SHALL BE LAPPED IN ACCORDANCE WITH THE AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS FOR CLASS C LAP SPLICES.

6. THE TOP BARS IN THE DECK SLABS SHALL BE SPLICED AT THE CENTER OF SPANS BETWEEN GIRDERS. THE BOTTOM BARS SHALL BE SPLICED OVER THE GIRDERS.

7. UNLESS OTHERWISE INDICATED ON THE PLANS, ALL MAIN REINFORCING BARS SHALL HAVE THE FOLLOWING MINIMUM COVER:

CONCRETE CAST AGAINST OR PERMANENTLY EXPOSED TO EARTH (FOOTINGS, ABUTMENT AND WALL FACES, BACKWALLS)		3"
DECK SLABS (EXPOSED DECKS)	TOP BOTTOM	3" (+1/4", -0 1.5" (+1/8", -0")
ALL OTHER BARS		2"

COVER TO TIES AND STIRRUPS MAY BE 0.5 INCH LESS THAN THE ABOVE VALUES SPECIFIED FOR MAIN REINFORCING, BUT IN NO CASE LESS THAN 1.5 INCHES.

8. ALL ANCHOR BOLTS SHALL BE ASTM DESIGNATION F1554 GRADE 105 UNLESS OTHERWISE NOTED, AND SHALL BE GALVANIZED IN ACCORDANCE WITH AASHTO DESIGNATION M 232. SWEDGED RODS SHALL BE AASHTO DESIGNATION M 270 GRADE 36 AND SHALL BE GALVANIZED IN ACCORDANCE WITH AASHTO DESIGNATION M 232.

9. ALL ANCHOR BOLTS SHALL BE SET PRIOR TO PLACEMENT OF CONCRETE UNLESS OTHERWISE AUTHORIZED BY THE ENGINEER.

10. HORIZONTAL CONSTRUCTION JOINTS OTHER THAN THOSE SHOWN ON PLANS WILL NOT BE PERMITTED WITHOUT A WRITTEN REQUEST BY THE CONTRACTOR AND PRIOR AUTHORIZATION BY THE ENGINEER.

11. UNLESS OTHERWISE NOTED ON THE PLANS, ALL EXPOSED CONCRETE SURFACES VISIBLE IN ELEVATION TO ONE FOOT BELOW FINAL GROUND LINE (AND THE UNDERSIDE OF ALL CONCRETE DECK SLABS OUTSIDE OF THE FASCIA BEAMS), SHALL RECEIVE A CONCRETE SURFACE RUBBER FINISH IN ACCORDANCE WITH RI STANDARD SPECIFICATIONS.

12. ALL EXPOSED EDGES AND REENTRANT CORNERS NOT OTHERWISE DETAILED ON THE PLANS SHALL HAVE A MINIMUM ¼" CHAMFER.

13. ALL JOINT SEALANT SHALL BE SILICONE SEALANT AS DESIGNATED ON THE PLANS. THE COLOR OF THE JOINT SEALANT, WHERE EXPOSED, SHALL BE NEUTRAL (LIGHT GRAY OR TAN). THE COLOR OF THE SEALANT, WHERE NOT EXPOSED, WILL BE AT THE DISCRETION OF THE CONTRACTOR.

14. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PREVENTING CONCRETE STAINS OR DISCOLORATIONS DURING CONSTRUCTION UNTIL SUCH TIME WHEN THE SURFACES ARE APPROVED AND ACCEPTED. ANY CONCRETE STAINS OR DISCOLORATIONS OCCURRING PRIOR TO ACCEPTANCE OF THE SURFACES SHALL BE REMOVED BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE STATE.

15. UNLESS OTHERWISE NOTED ON THE PLANS, JOINT FILLER IS TO BE A PREFORMED, NON-EXPANSIVE, NON-EXTRUDING TYPE IN ACCORDANCE WITH SECTION M.02.11.1 OF THE RI STANDARD SPECIFICATIONS.

16. EMBEDMENT LENGTHS FOR DRILLED AND GROUTED DOWELS SHALL BE IN ACCORDANCE WITH SECTION 819 OF THE RI STANDARD SPECIFICATIONS.

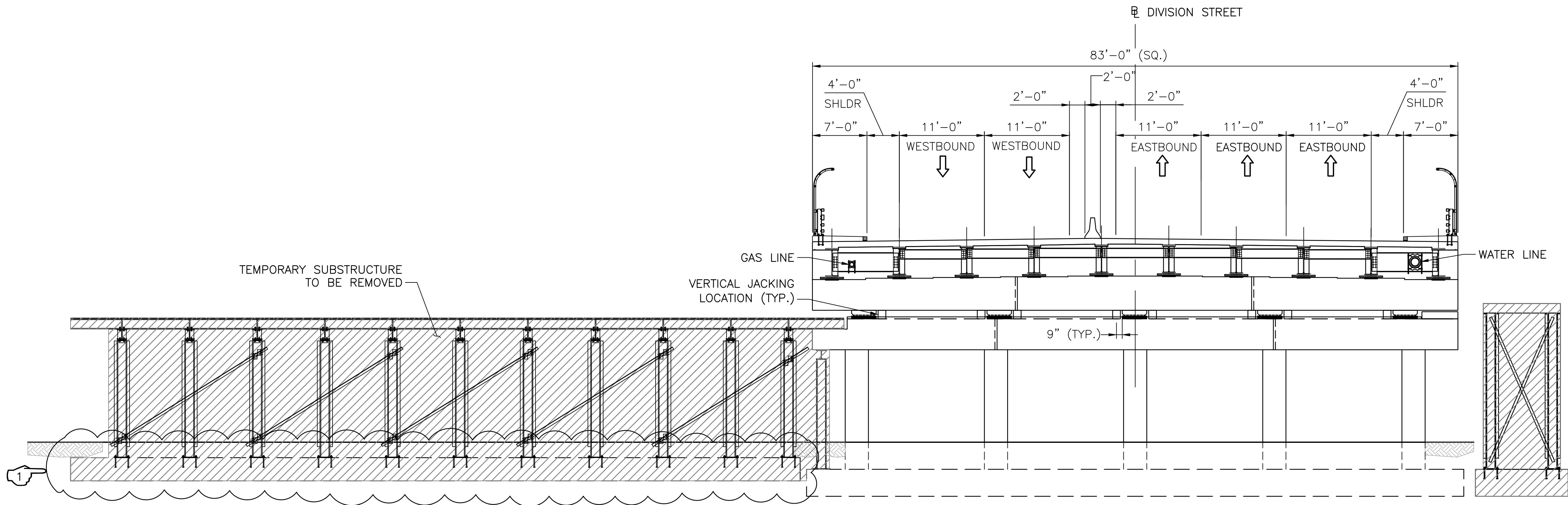
17. IN ACCORDANCE WITH THE RI STANDARD SPECIFICATIONS, ALL METAL TIES, NON-METALLIC TIES OR ANCHORAGES WHICH ARE REQUIRED FOR CONCRETE FORMWORK SHALL BE SO CONSTRUCTED THAT THEY CAN BE REMOVED TO AT LEAST ONE INCH BELOW THE EXPOSED SURFACE OF THE CONCRETE WITHOUT CAUSING DAMAGE TO THE CONCRETE SURFACE. SNAP TIES MAY BE USED ONLY IF APPROVED BY THE ENGINEER. IF THE CONTRACTOR PROPOSES TO USE THEM, A CATALOG CUT AND OTHER NECESSARY INFORMATION MUST BE SUBMITTED TO THE ENGINEER TO DEMONSTRATE THAT THE TIES WILL SNAP-OFF FAR ENOUGH INTO THE CONCRETE TO ALLOW FOR PROPER PATCHING. SNAP TIES MUST PROVIDE ADEQUATE STRENGTH TO SUPPORT THE FORMS. ALL CAVITIES SHALL BE FILLED WITH AN APPROVED CEMENT MORTAR MEETING THE REQUIREMENTS OF ASTM C 928.

REVISIONS			RHODE ISLAND DEPARTMENT OF TRANSPORTATION	
NO.	DATE	BY	BRIDGE REPLACEMENT	
1	5/19	RGN	GROUP 58B - DIVISION STREET BRIDGE NO. 760	
2	5/19	RGN	EAST GREENWICH	
3	6/19	RGN	RHODE ISLAND	
			GENERAL NOTES	
			(SHEET 1 OF 2)	
			CHECKED BY	DATE
			SCALE	N.T.S.





FED. ROAD DIV. NO.	STATE	FEDERAL AID PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
1	RI	BRO-0760(003)	2018	78	134

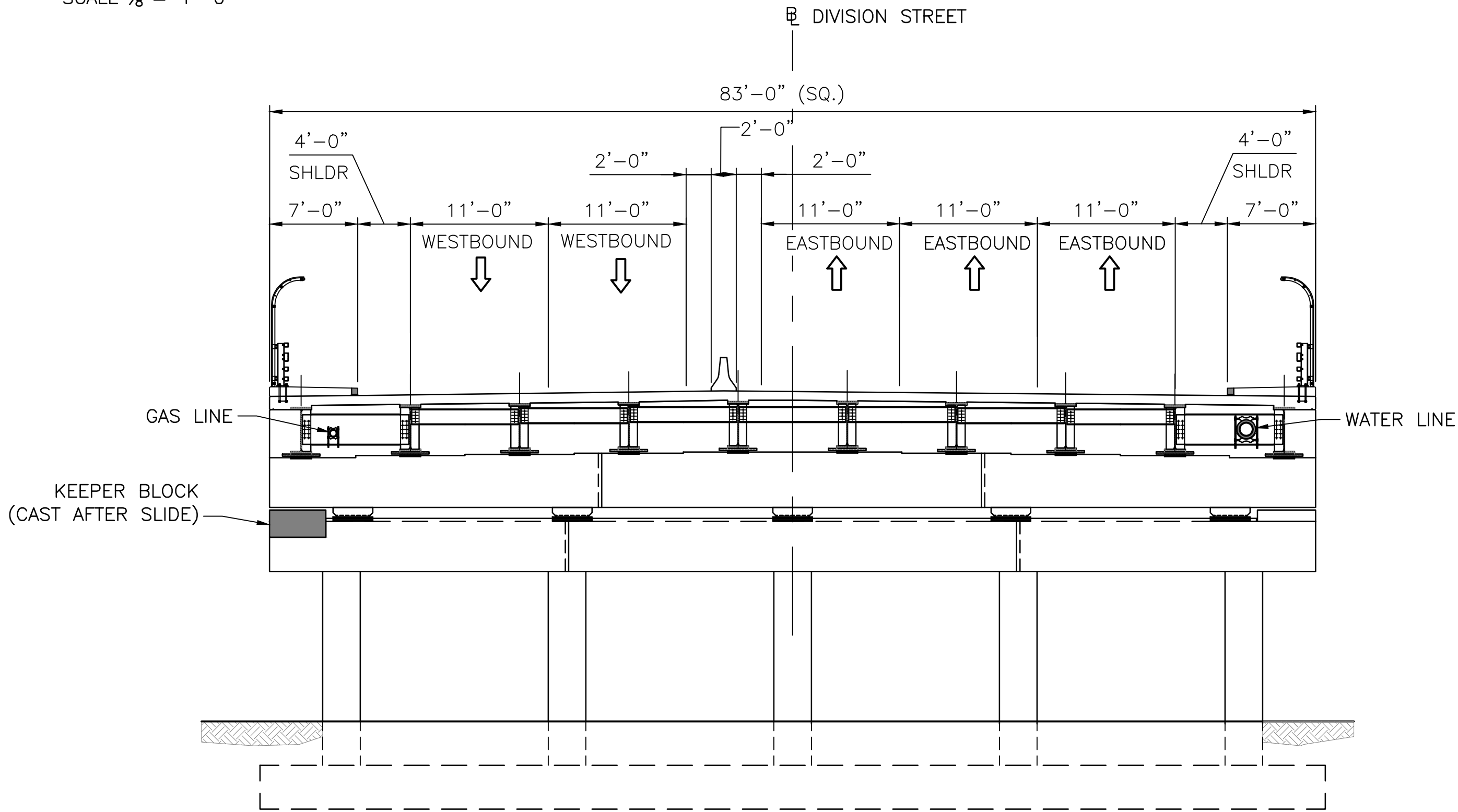


**STAGE 4**  
SCALE 1/8" = 1'-0"

- STAGE 4 – SEQUENCE:**
1. CONNECT GAS AND WATER LINES ON APPROACHES TO LINES ON BRIDGE.
  2. REMOVE TEMPORARY SUBSTRUCTURE.
  3. PERFORM POST SLIDE WORK INCLUDING CONSTRUCTING CHEEKWALLS, KEEPER BLOCK AND REMOVAL OF TEMPORARY MSE WALL.

**LEGEND:**

AREA TO BE DEMOLISHED AT GIVEN STAGE



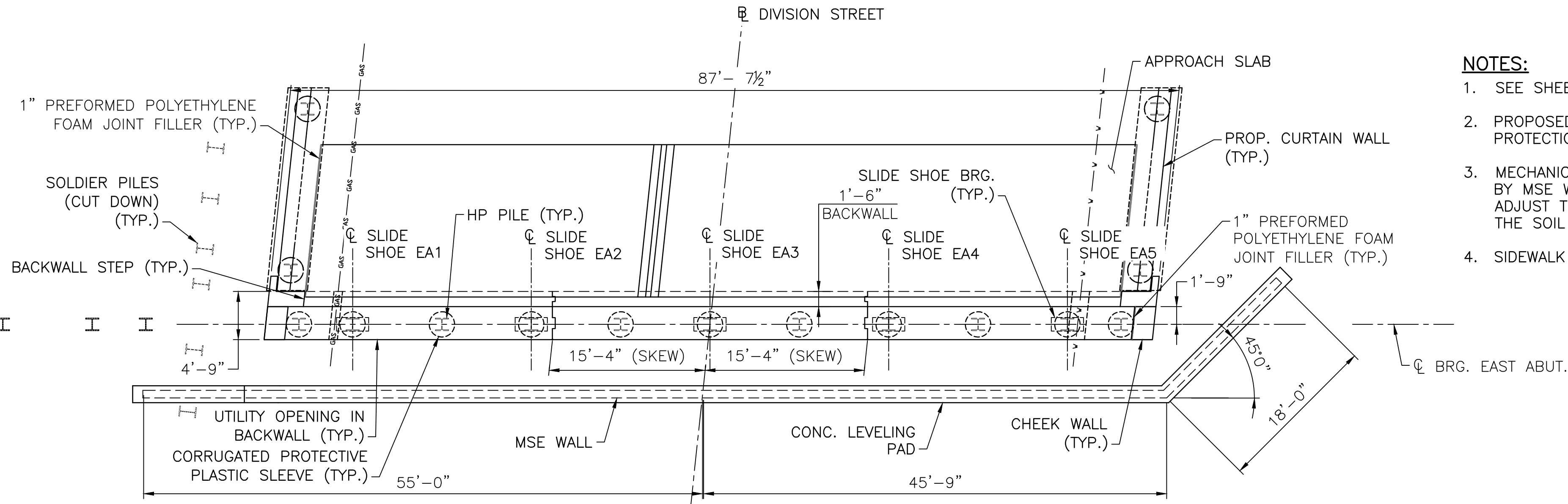
**FINAL**  
SCALE 1/8" = 1'-0"

REVISIONS				RHODE ISLAND DEPARTMENT OF TRANSPORTATION	
NO.	DATE	BY		BRIDGE REPLACEMENT	
1	6/19	RGN		GROUP 58B - DIVISION STREET BRIDGE NO. 760	
				EAST GREENWICH RHODE ISLAND	
				CONSTRUCTION STAGING	
				(SHEET 3 OF 3)	
				CHECKED BY <u>  RGN  </u> DATE <u>  8/18  </u> SCALE <u>  AS NOTED  </u>	

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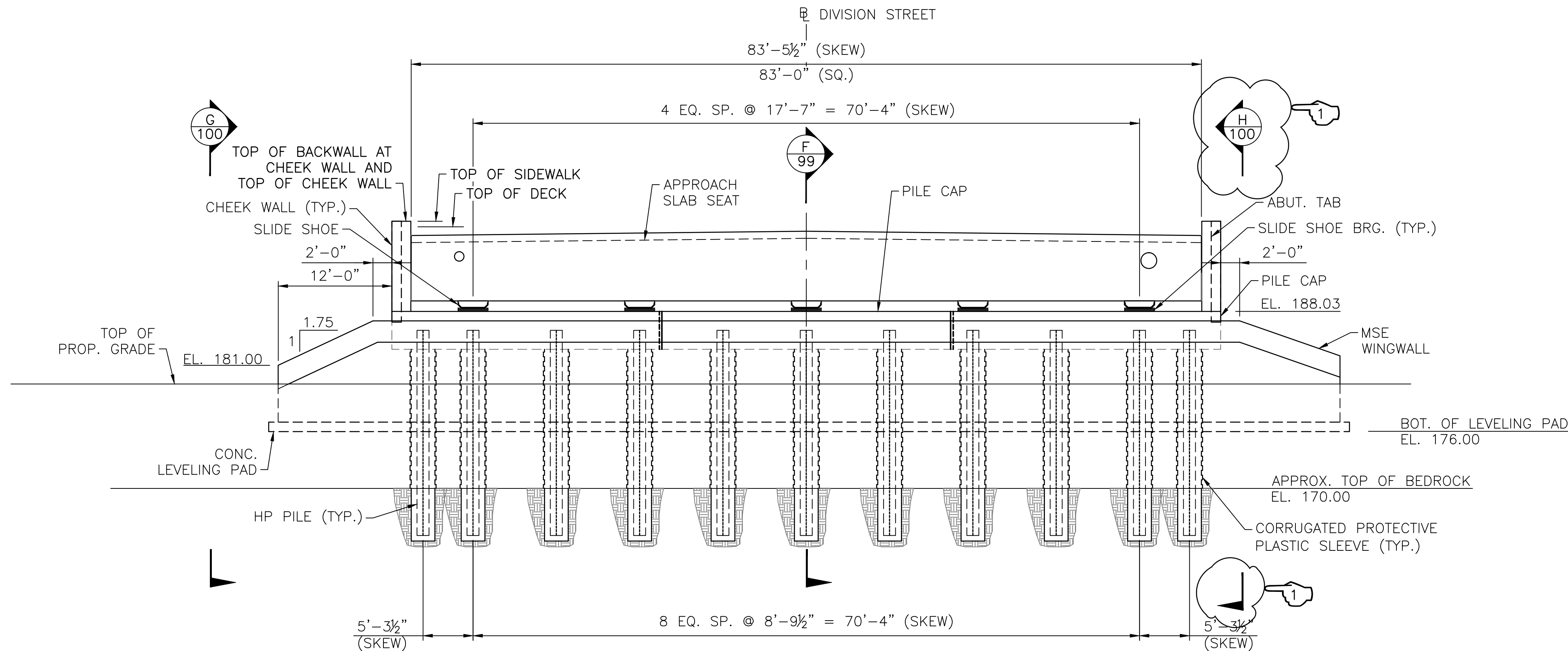


TEMP. HP 14x117 PILE  
(SEE NOTE 2, SH. 85)  
(TYP.)



**EAST ABUT. PLAN**  
SCALE  $\frac{1}{8}$ " = 1'-0"

- NOTES:**
- SEE SHEET 99 FOR BACKFILL REQUIREMENTS AND LIMITS.
  - PROPOSED PILES SHALL BE COATED FOR CORROSION PROTECTION.
  - MECHANICALLY STABILIZED EARTH WALL TO BE DESIGNED BY MSE WALL ENGINEER. THE MSE WALL ENGINEER WILL ADJUST THE DEIGN IF COMPETENT ROCK IS FOUND IN THE SOIL REINFORCEMENT ZONE.
  - SIDEWALK AND RAILING NOT SHOWN FOR CLARITY.



**EAST ABUT. ELEVATION**  
SCALE  $\frac{1}{8}$ " = 1'-0"

REVISIONS				RHODE ISLAND DEPARTMENT OF TRANSPORTATION	
NO.	DATE	BY	RGN	BRIDGE REPLACEMENT	
1	6/19	RGN		GROUP 58B - DIVISION STREET BRIDGE NO. 760	
				EAST GREENWICH RHODE ISLAND	
				EAST ABUTMENT (SHEET 1 OF 3)	
CHECKED BY				DATE	
				8/18	
				SCALE	
				AS NOTED	

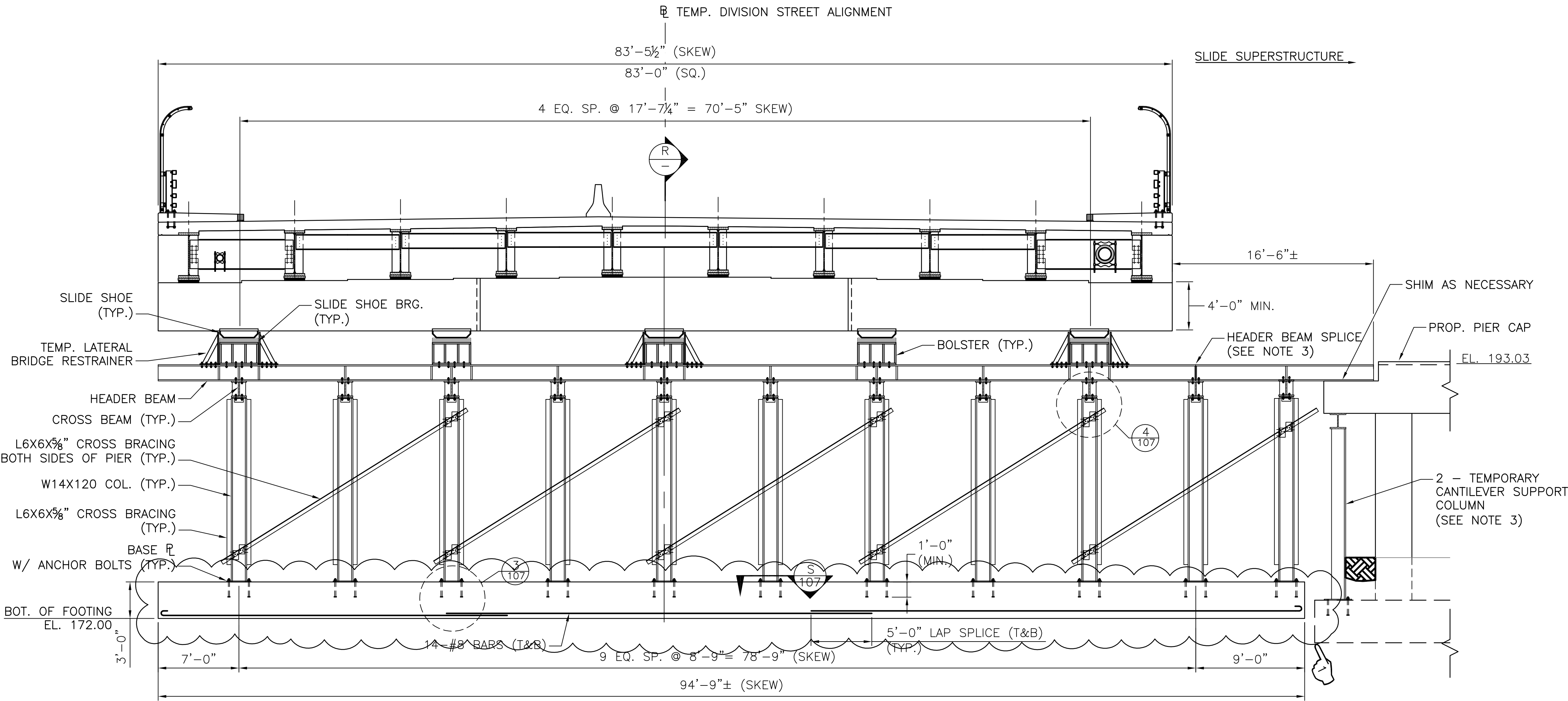
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FED. ROAD DIV. NO.	STATE	FEDERAL AID PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
1	RI	BRO-0760(003)	2018	106	134

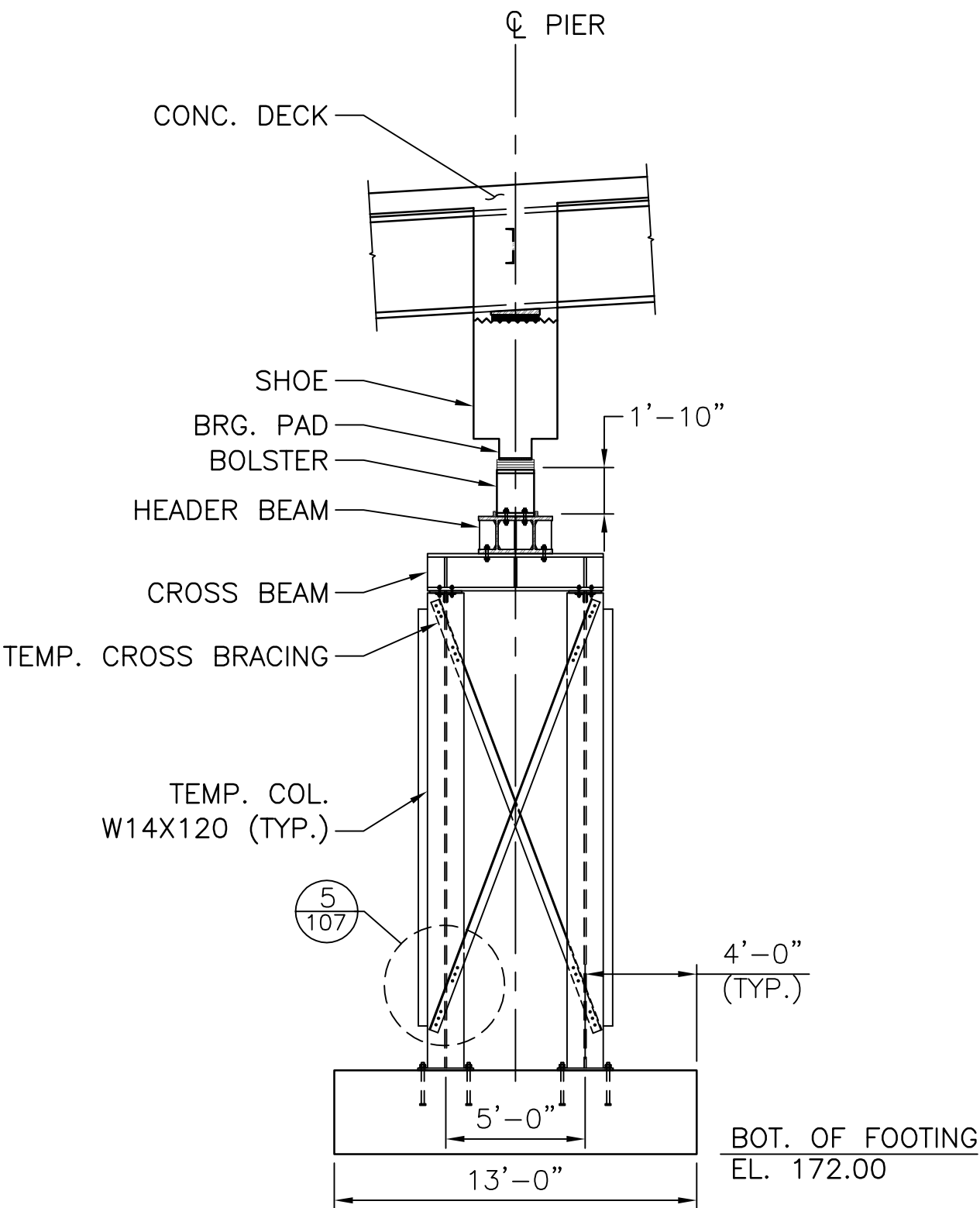
NOTES:

- FOR MORE INFORMATION SEE CONSTRUCTION STAGING, SHEETS 76 - 78.
- SEE SHEET 101 FOR STEEL BOLSTER AND LATERAL RESTRAINER DETAILS.
- THESE ITEMS TO BE CONTRACTOR DESIGNED AS PART OF ITEM 899.9901 BRIDGE SUPERSTRUCTURE SLIDE.



TEMPORARY PIER ELEVATION (SHOWN ALONG SKEW)

SCALE 3/16" = 1'-0"



SECTION

SCALE 3/16" = 1'-0"

R

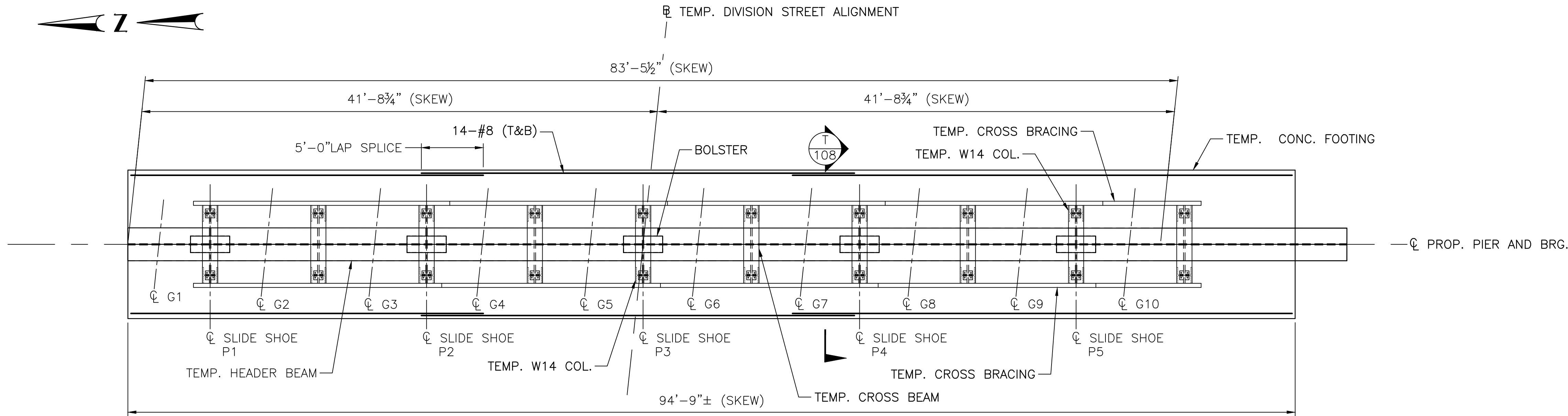
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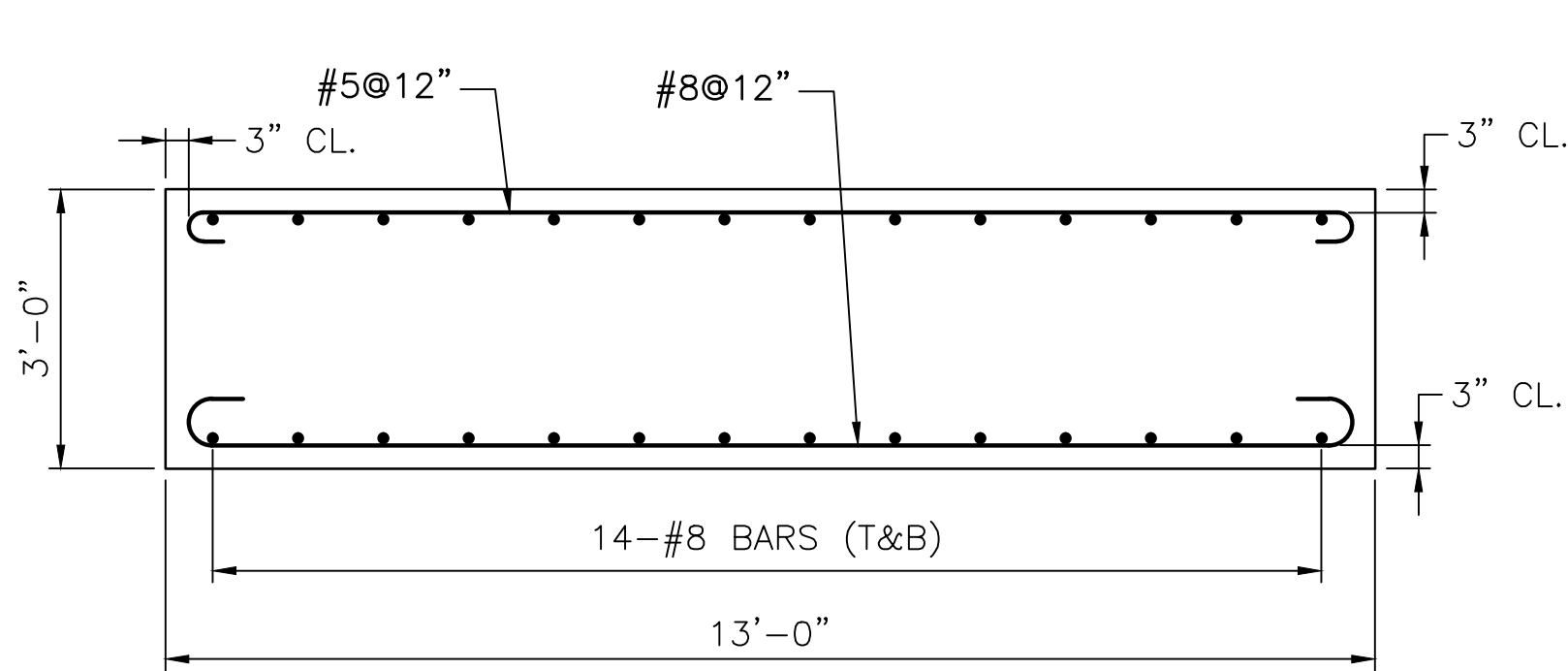
REVISIONS				RHODE ISLAND DEPARTMENT OF TRANSPORTATION	
NO.	DATE	BY		BRIDGE REPLACEMENT GROUP 58B - DIVISION STREET BRIDGE NO. 760	
1	6/19	RGN		EAST GREENWICH RHODE ISLAND	
				TEMPORARY PIER SHEET (1 OF 3)	
				CHECKED BY <u>  RGN  </u> DATE <u>  8/18  </u> SCALE <u>  AS NOTED  </u>	

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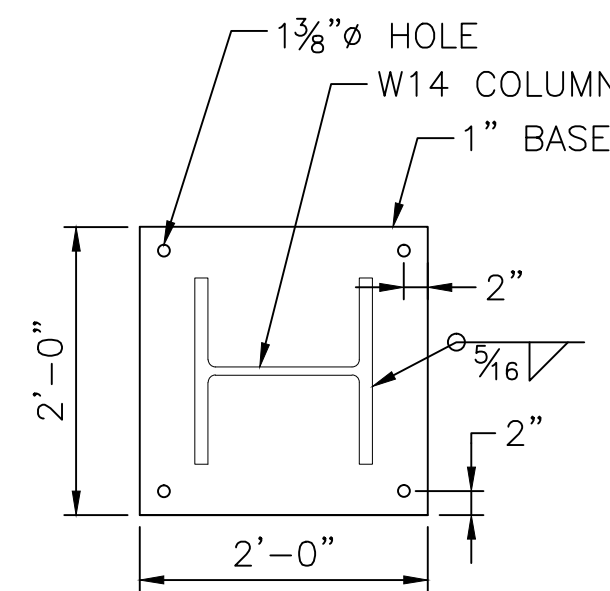
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1	RI	BRO-0760(003)	2018	107	134



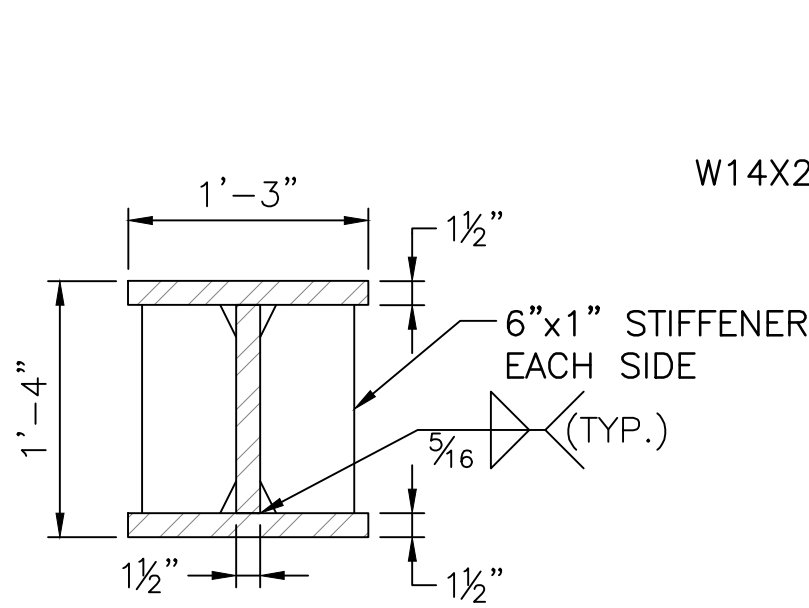
**TEMPORARY PIER PLAN**  
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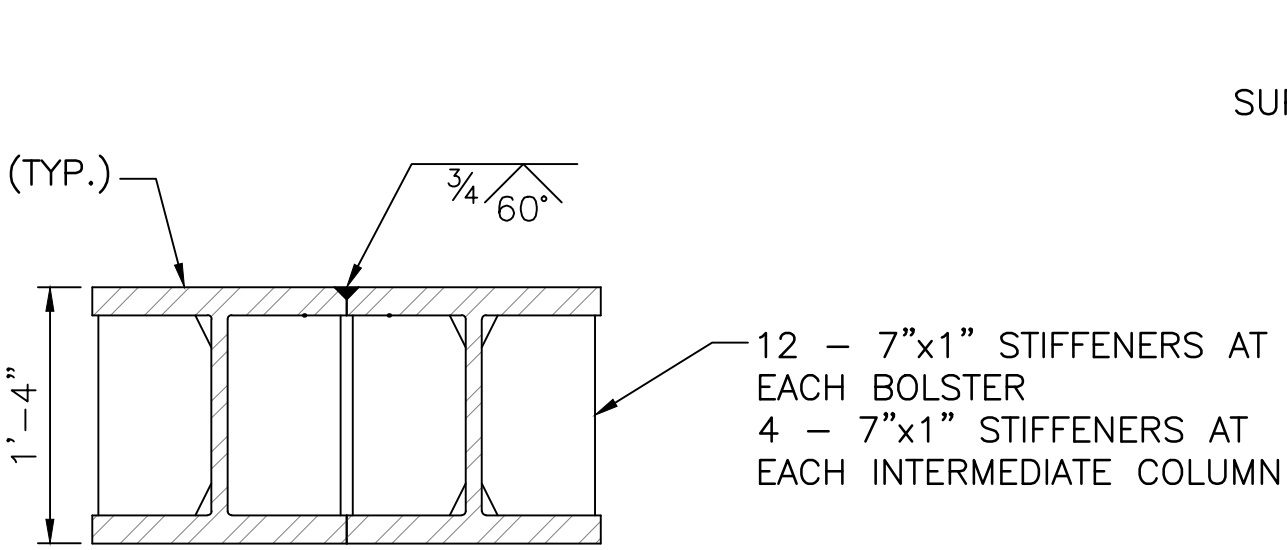
**TEMPORARY FOOTING**  
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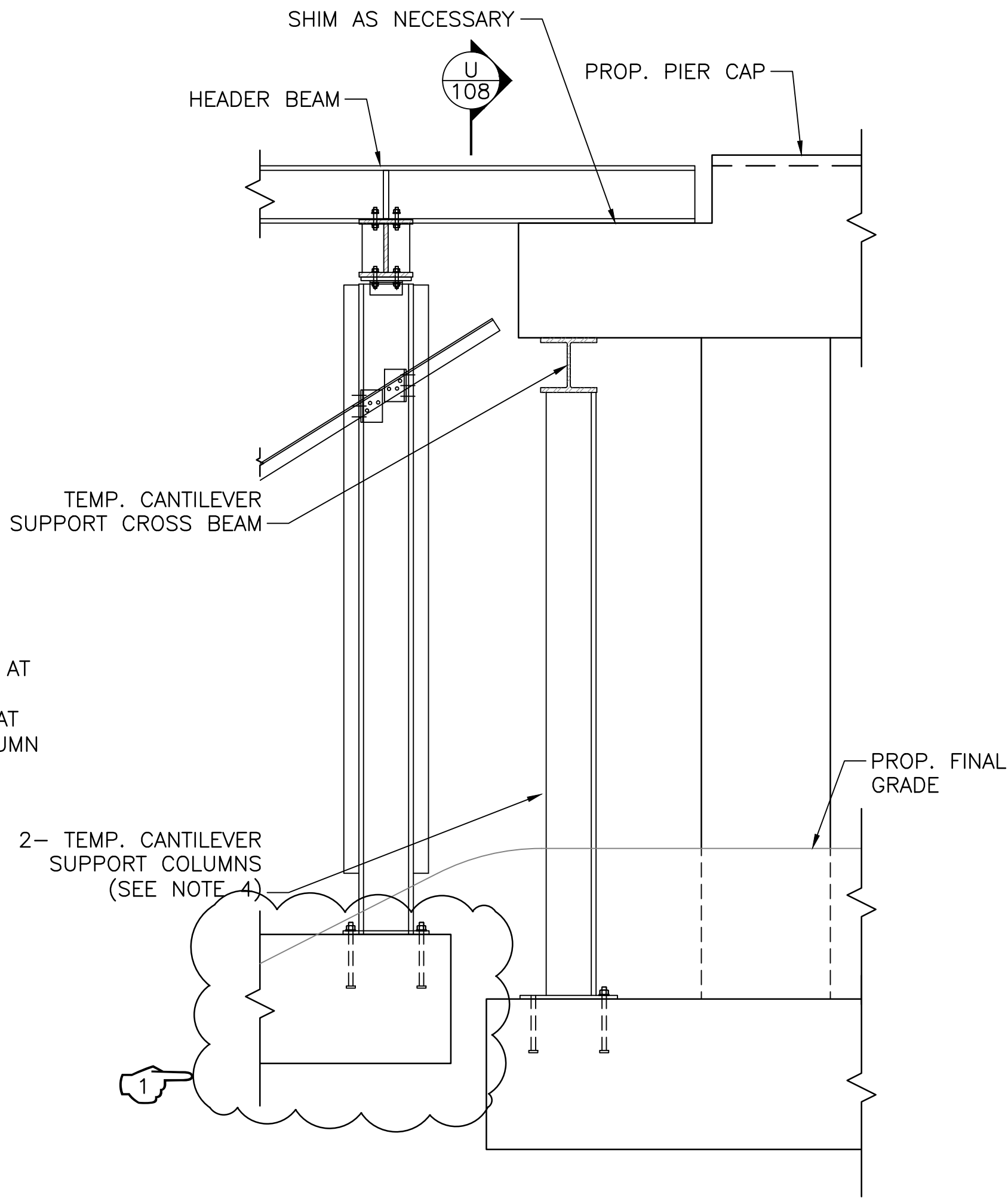
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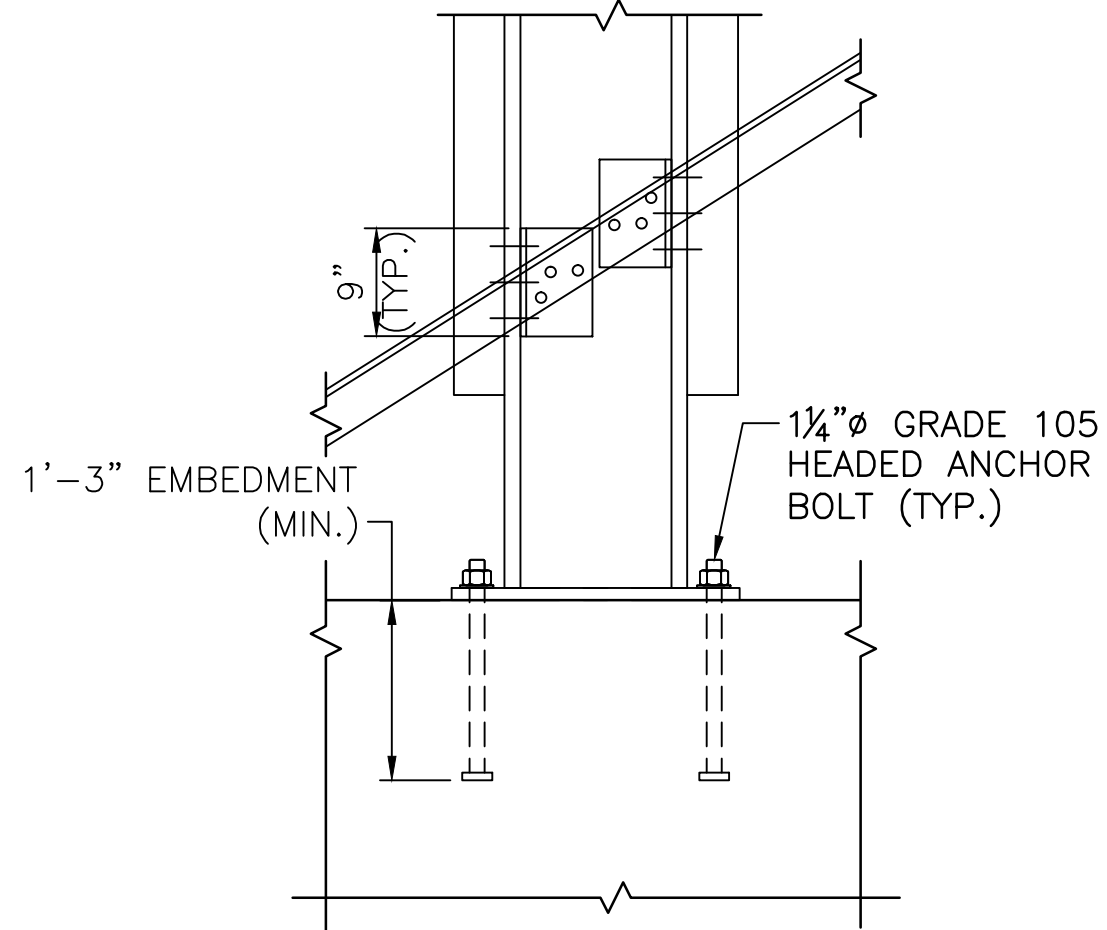
**CROSS BEAM**  
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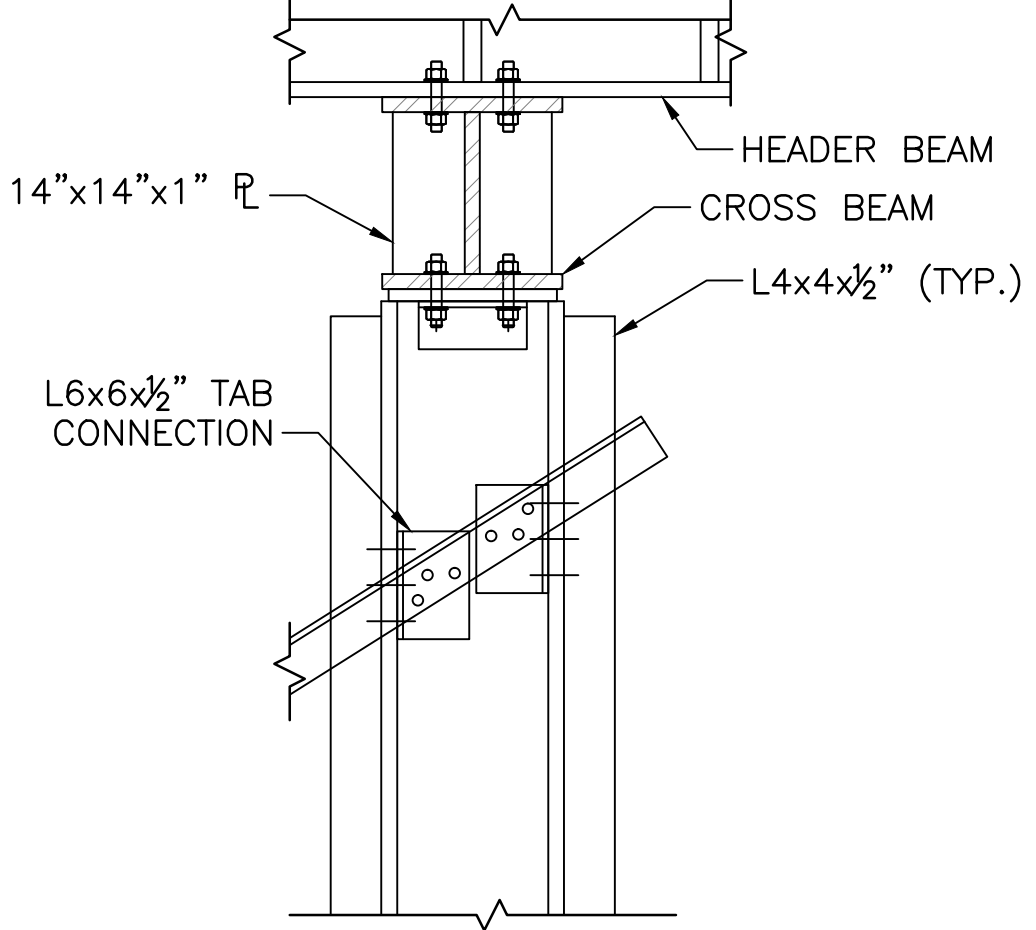
**HEADER BEAM**  
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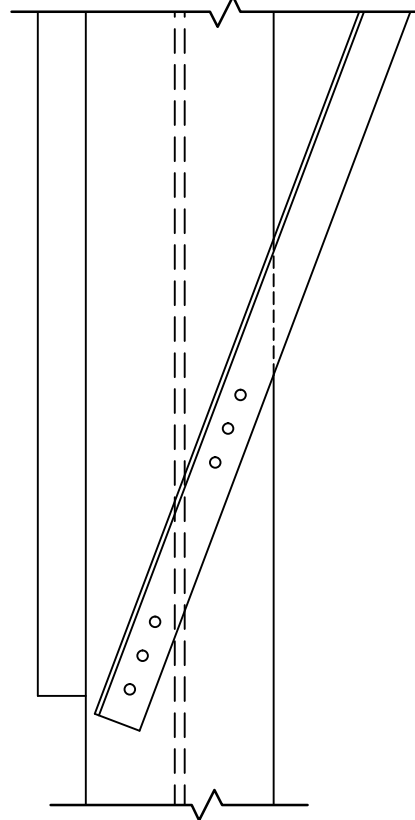
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**DETAIL**  
SCALE:  $\frac{3}{4}$ " = 1'-0"



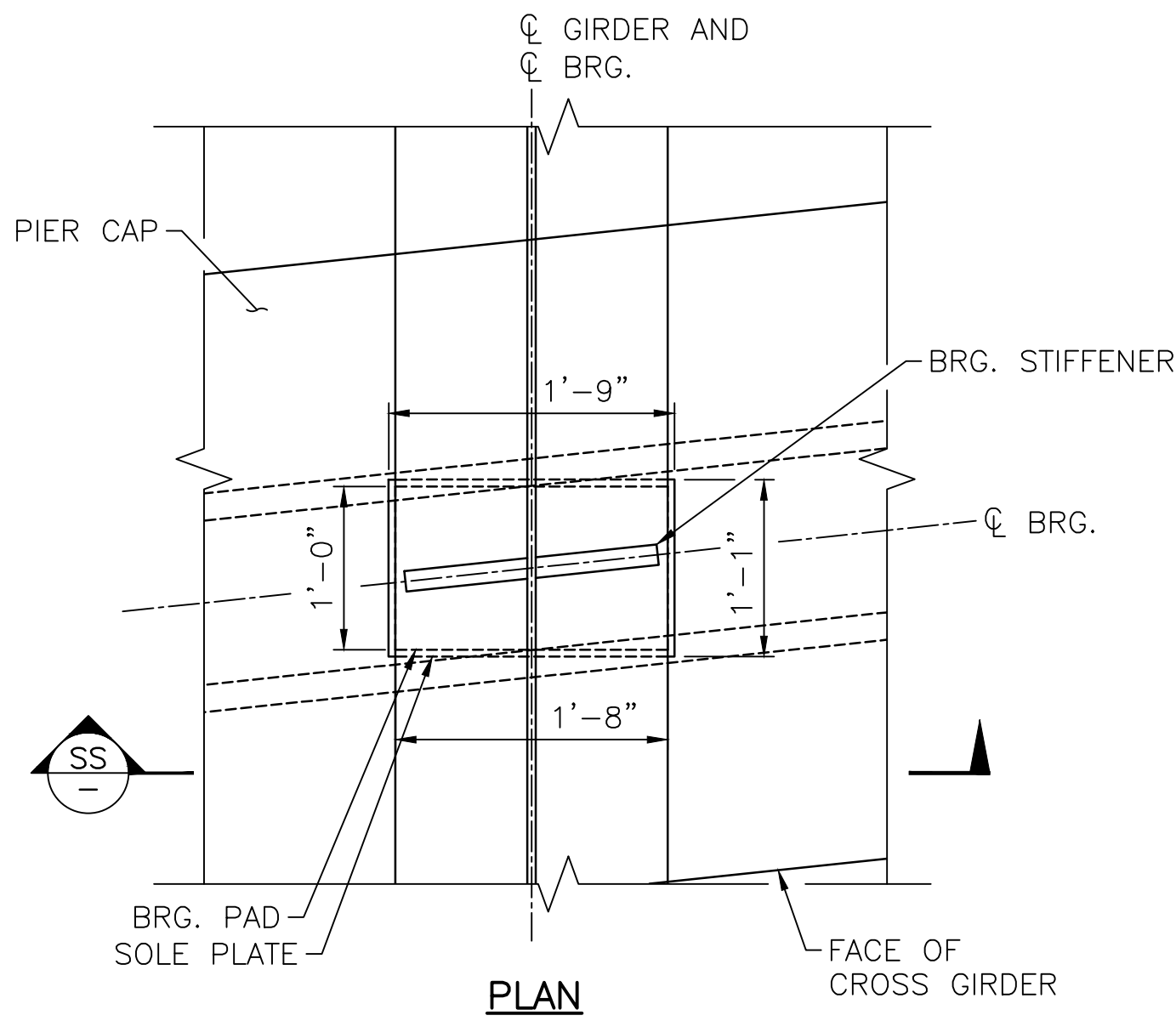
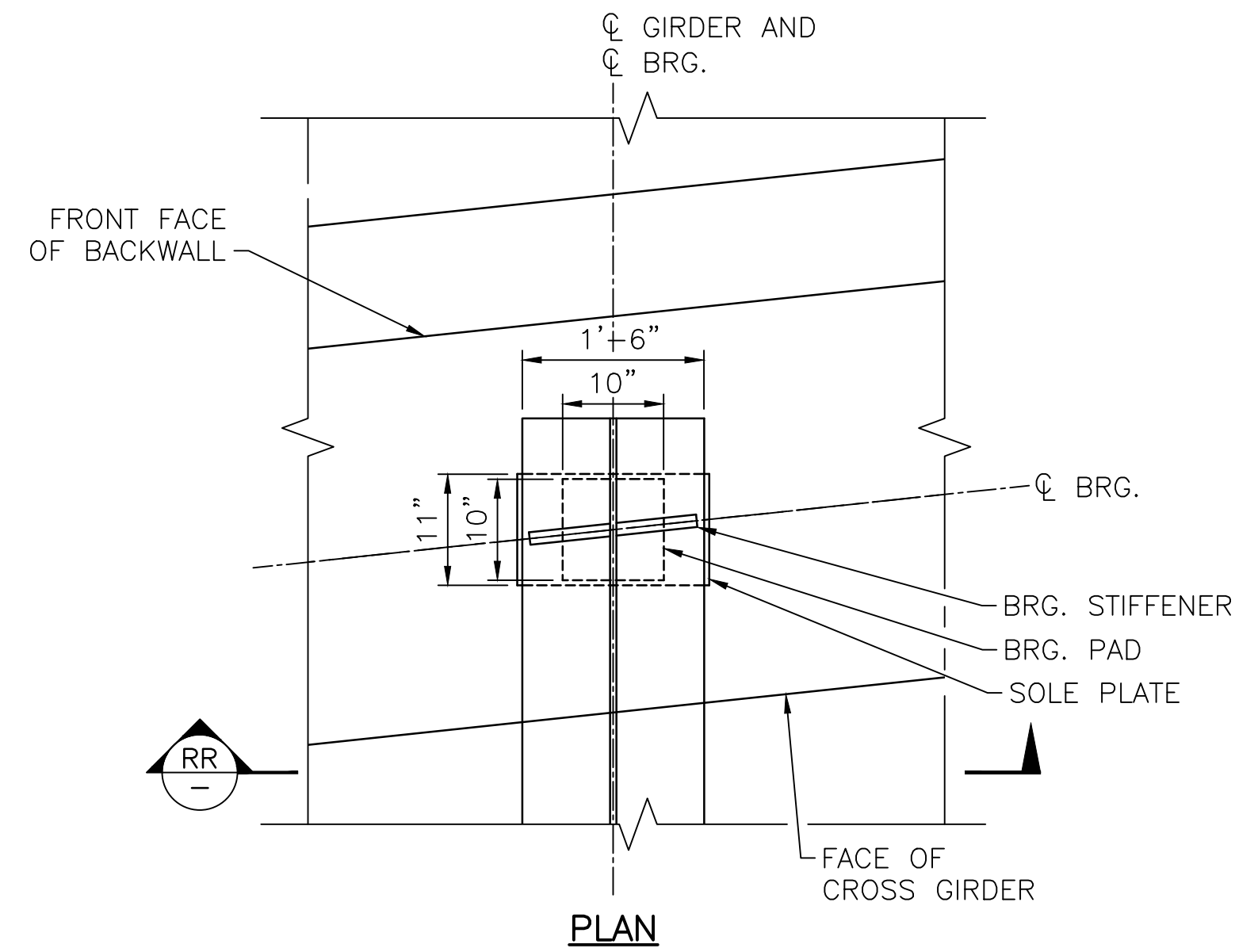
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**DETAIL**  
SCALE:  $\frac{3}{4}$ " = 1'-0"

REVISIONS				RHODE ISLAND	
NO.	DATE	BY	REASON	DEPARTMENT OF TRANSPORTATION	
1	6/19	RGN		BRIDGE REPLACEMENT	
				GROUP 58B - DIVISION STREET BRIDGE NO. 760	
				EAST GREENWICH RHODE ISLAND	
				TEMPORARY PIER	
				(SHEET 2 OF 3)	
				CHECKED BY <u>  RGN  </u> DATE <u>  8/18  </u> SCALE <u>  AS NOTED  </u>	

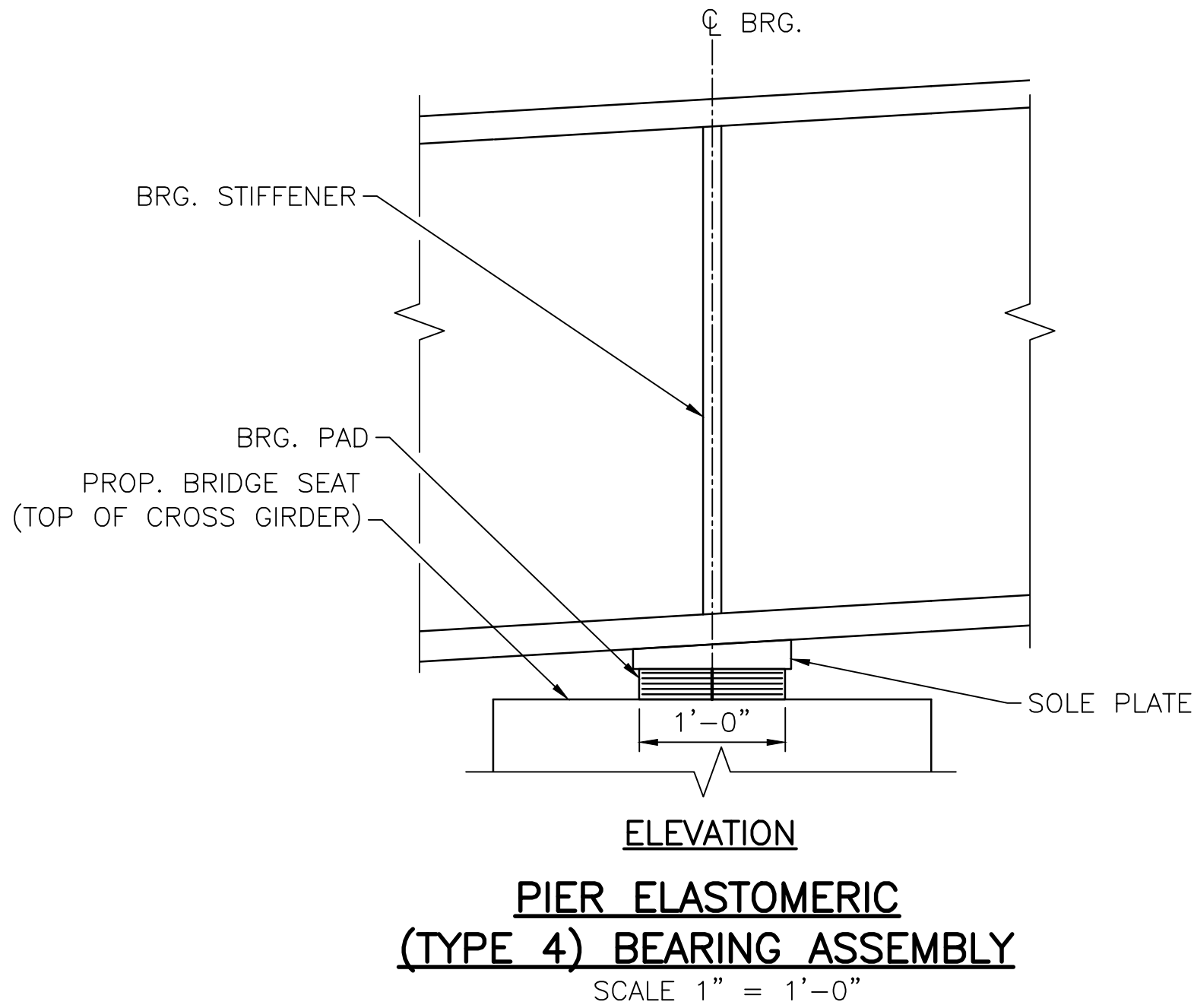
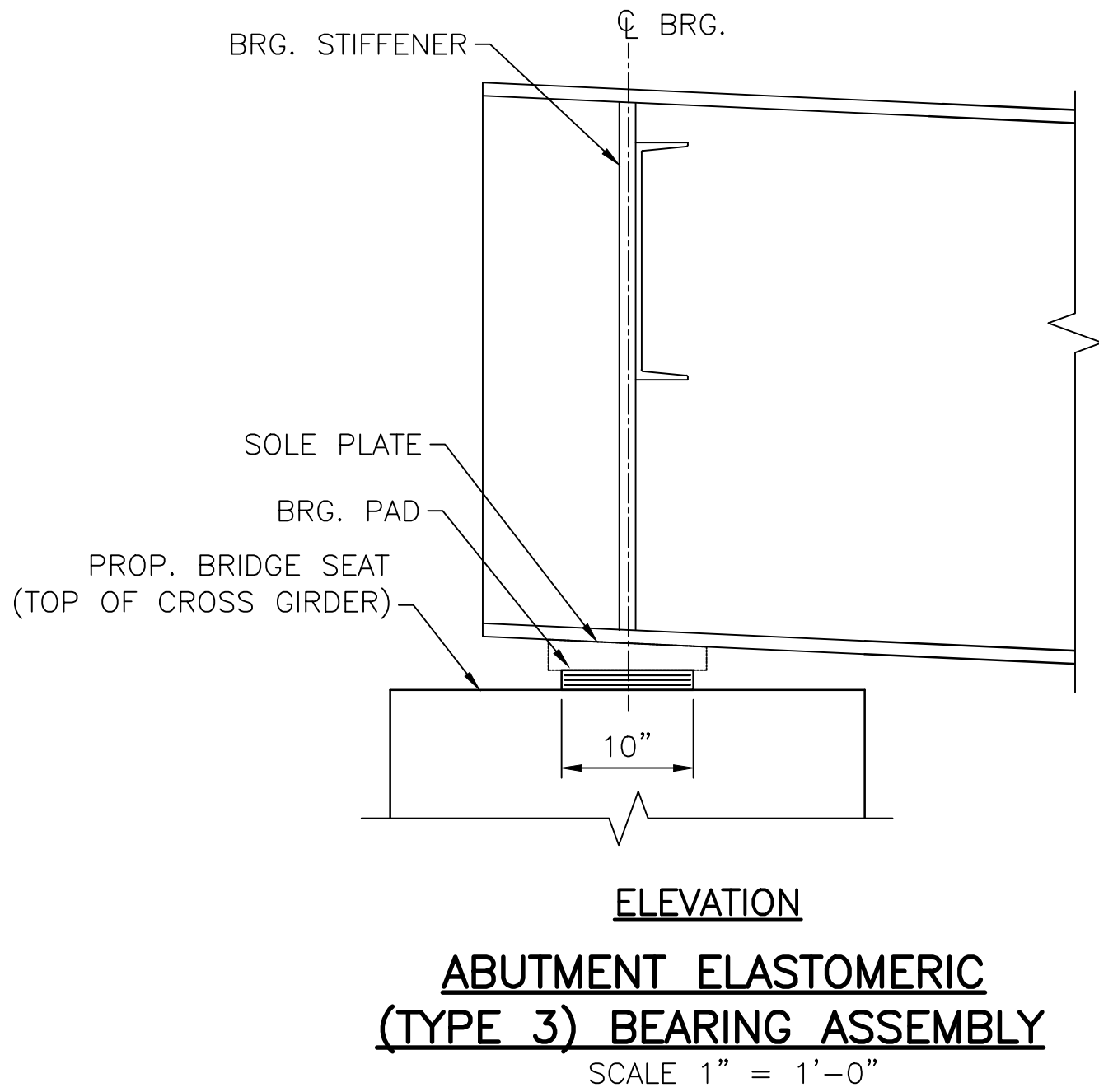
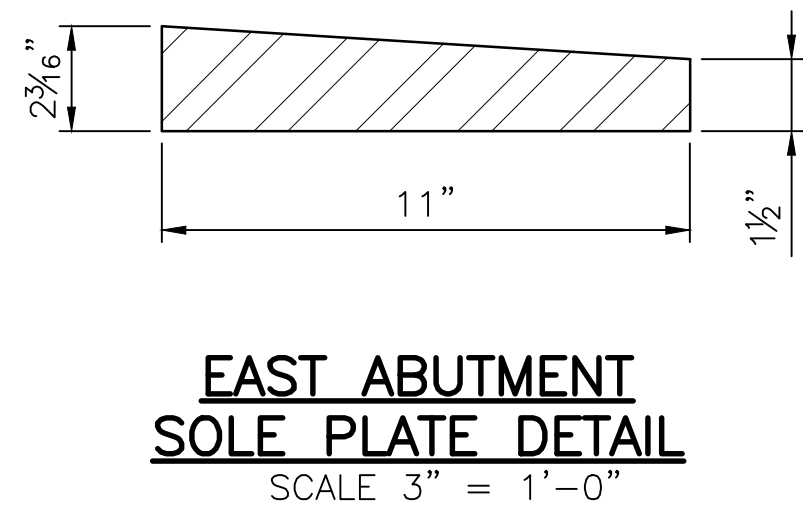
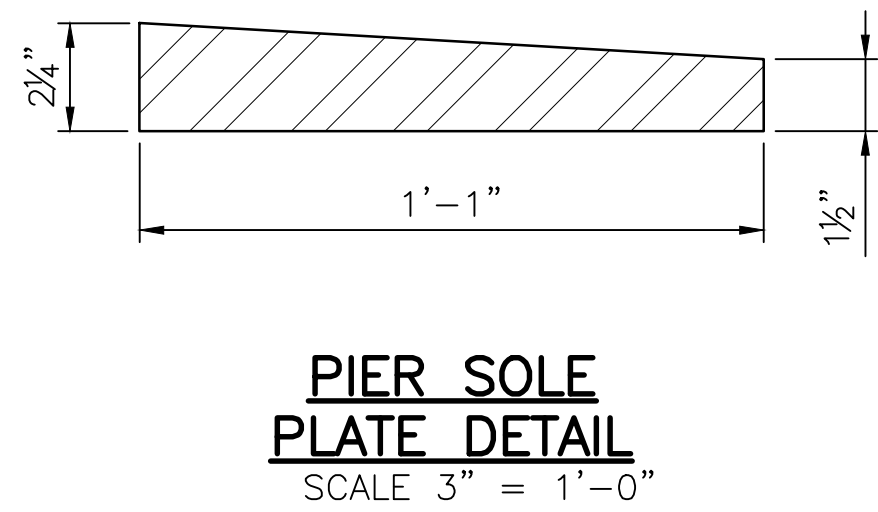
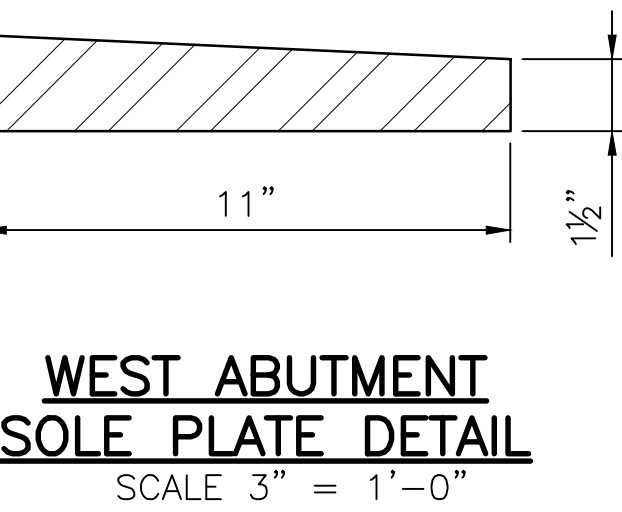
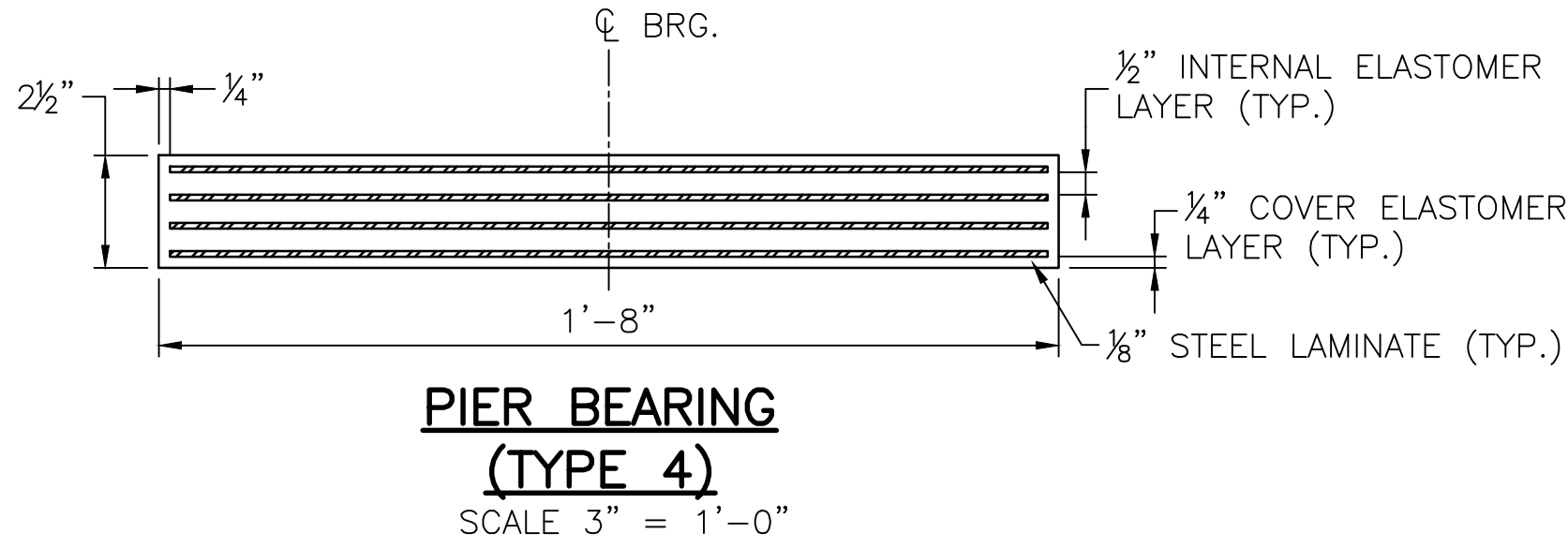
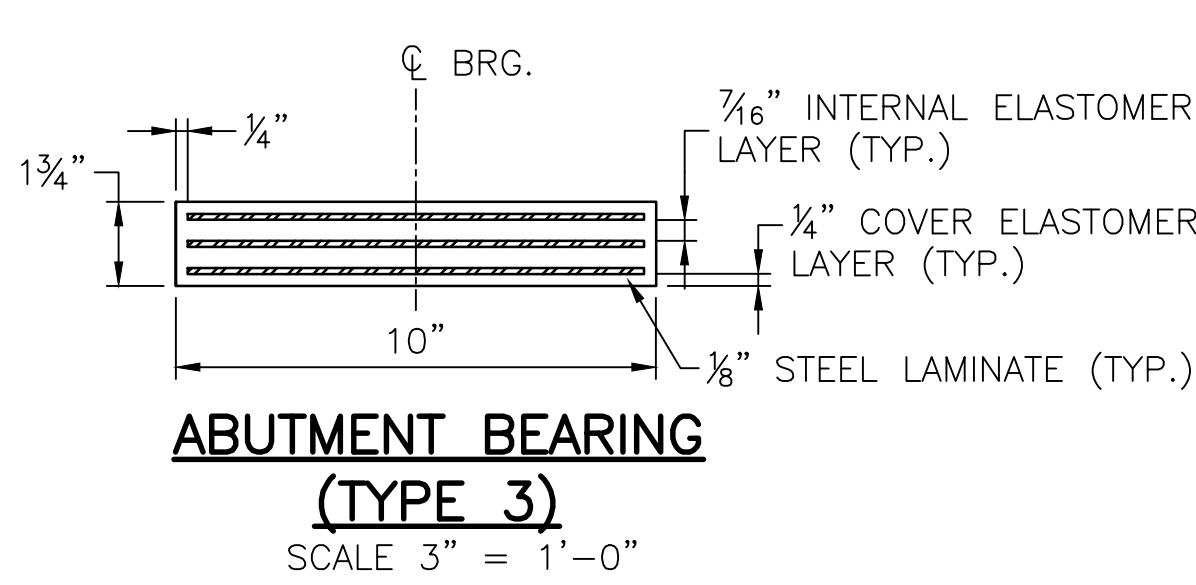
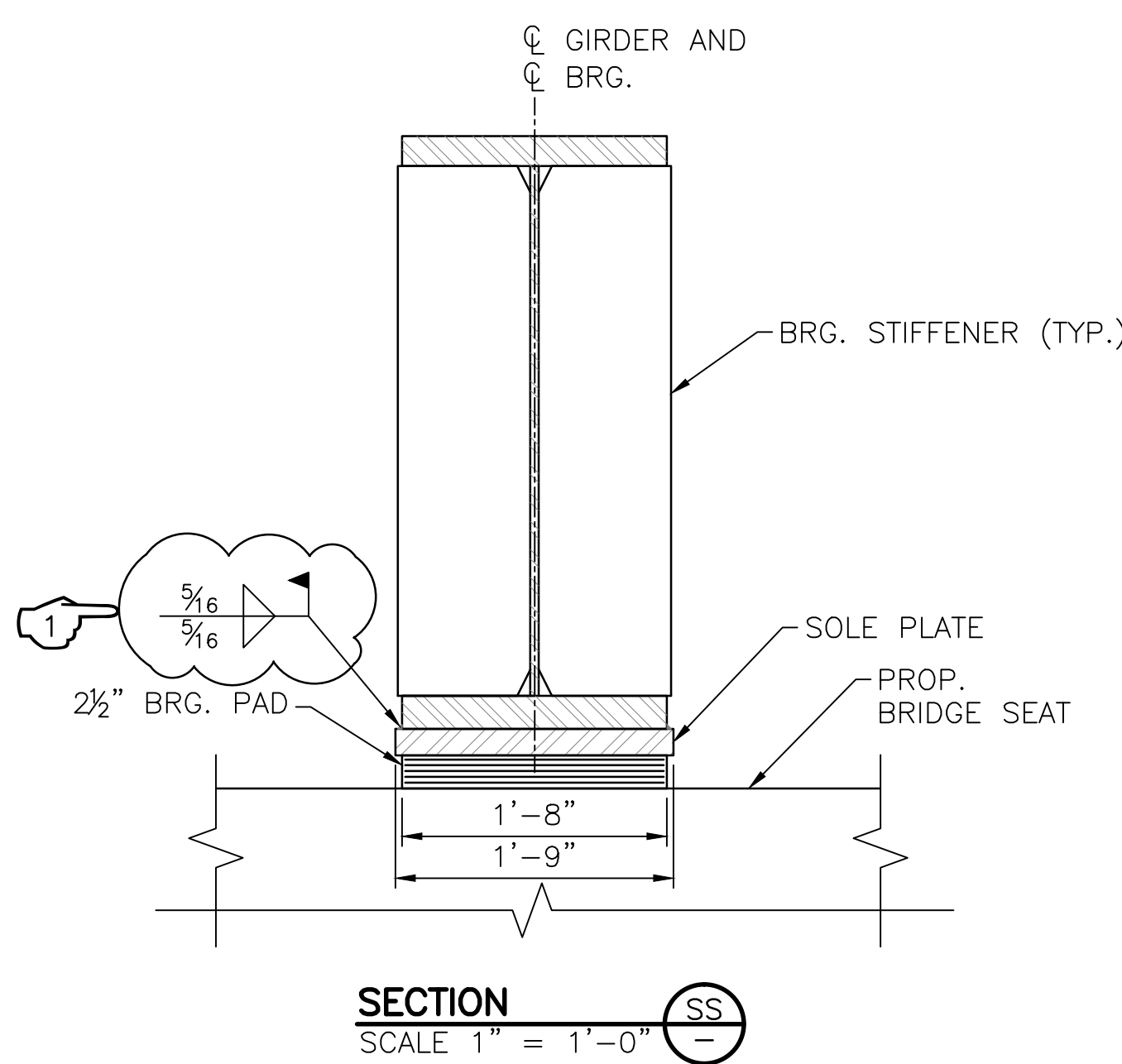
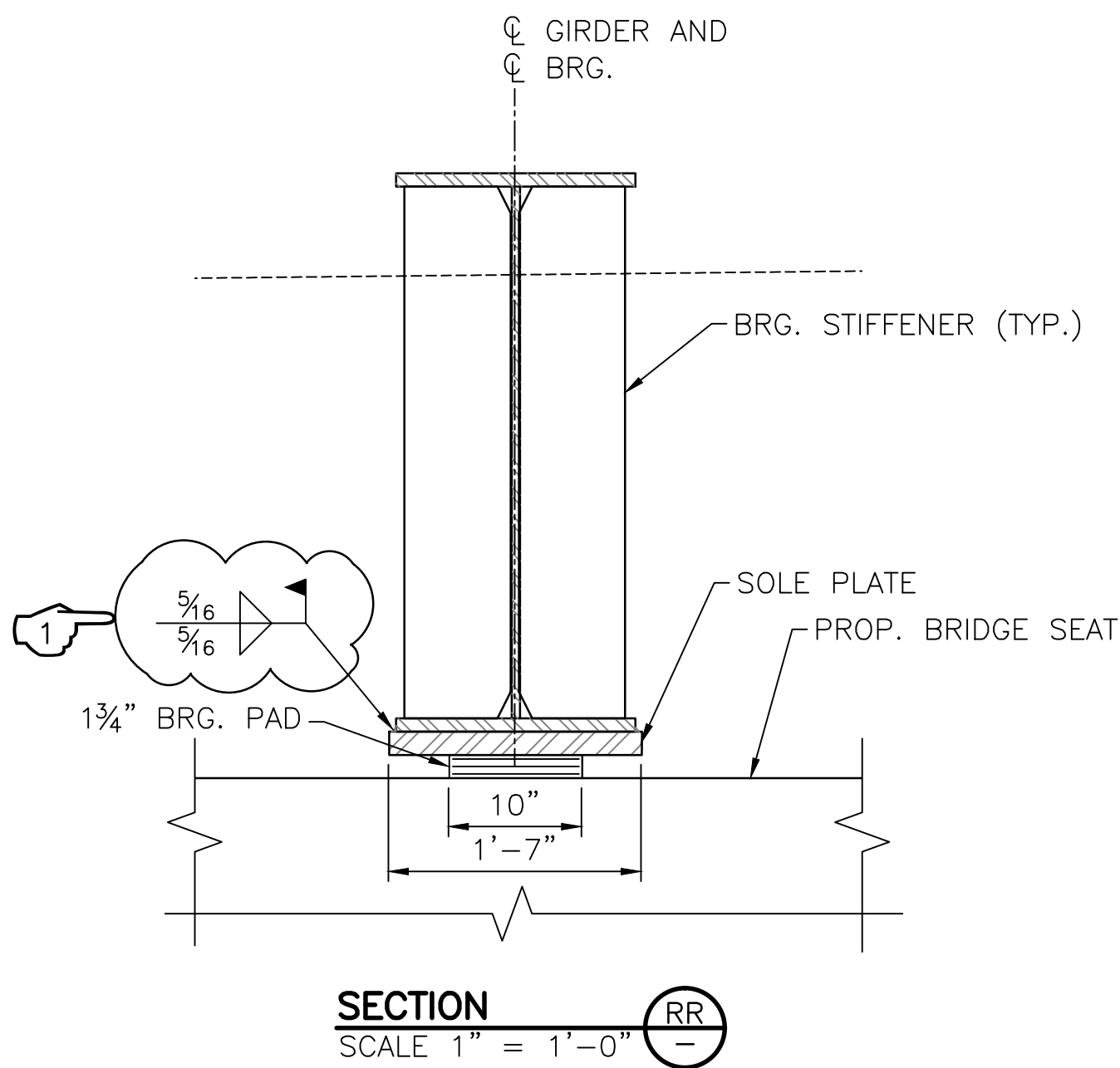
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BEARING ARRANGEMENT TABLE				
	GIRDER	BEARING TYPE	DESIGN LOAD	DESIGN STRESS
			(KIP)	(KSI)
EAST AND WEST ABUTMENT	G-1	3	57.3	0.573
	G-2	3		
	G-3	3		
	G-4	3		
	G-5	3		
	G-6	3		
	G-7	3		
	G-8	3		
	G-9	3		
	G-10	3	57.3	0.573
PIER	G-1	4	210.0	0.875
	G-2	4		
	G-3	4		
	G-4	4		
	G-5	4		
	G-6	4		
	G-7	4		
	G-8	4		
	G-9	4		
	G-10	4	210.0	0.875

NOTES – ALL BEARING TYPES:

- ELASTOMER SHALL HAVE A SHEAR MODULUS OF 0.106 KSI.
- STEEL LAMINATES SHALL CONFORM TO ASTM A 1011 GRADE 36.
- SEE TABLE FOR COMPRESSIVE DESIGN LOAD AND COMPRESS DESIGN STRESS ON THE BEARING PAD. THE COMPRESSIVE DESIGN STRESS IS THE RESULT OF DIVIDING THE COMPRESSIVE DESIGN LOAD BY THE AREA OF THE PAD. THE LOADS PRESENTED HAVE NOT BEEN FACTORED.
- ELASTOMERIC BEARING PAD SHALL NOT BE VULCANIZED TO THE SOLE PLATE.
- ELASTOMERIC PAD BEARING BENEATH GIRDERS DESIGNED FOR DEAD LOAD ONLY.
- STEEL SOLE PLATE SHALL CONFORM TO AASHTO M270 GRADE 36 AND SHALL BE HOT-DIP GALVANIZED.
- CENTER THE ELASTOMERIC PAD UNDER SOLE PLATE DURING GIRDER ERECTION.
- GIRDERS SHALL BE ERECTED WHEN THE AMBIENT TEMPERATURE IS BETWEEN 50 °F AND 77 °F. IF GIRDER ARE ERECTED AT OTHER AMBIENT TEMPERATURES, THEY WILL HAVE TO BE JACKED AND THE ELASTOMERIC BEARINGS RECENTERED WHEN THE TEMPERATURE RETURNS TO THAT RANGE.
- AFTER THE SOLE PLATE ASSEMBLY IS IN ITS FINAL POSITION, WELD IT TO THE STRINGER BOTTOM FLANGE.
- TEMPERATURE OF STEEL ADJACENT TO ELASTOMER DURING FIELD WELDING SHALL BE KEPT BELOW 250 °F.



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REVISIONS				RHODE ISLAND DEPARTMENT OF TRANSPORTATION	
NO.	DATE	BY	REASON		
1	6/19	RGN		BRIDGE REPLACEMENT GROUP 58B - DIVISION STREET BRIDGE NO. 760	
				EAST GREENWICH RHODE ISLAND	
				BEARING DETAILS (SHEET 2 OF 2)	
CHECKED BY				DATE	SCALE
				AS NOTED	

### Utility Durations

The estimated duration of activities is subject to change, however the total construction time listed below for each utility shall be used for construction scheduling. The following is a summary of the utility construction time.

#### Initial Relocation Activities

<u>Utility</u>	<u>Utility Work Time (Total Duration)</u>
National Grid – Electric	20 weeks
Crown Castle	TBD
Verizon	35 weeks
COX Communications	6 weeks

#### Final Relocation Activities

<u>Utility</u>	<u>Utility Work Time (Total Duration)</u>
National Grid – Electric	16 weeks
Crown Castle	TBD
Verizon	18 weeks
COX Communications	4 weeks

The estimated duration of activities is subject to change, however the total downtime time listed below for each utility shall be used for construction scheduling. The following is a summary of the utility downtime.

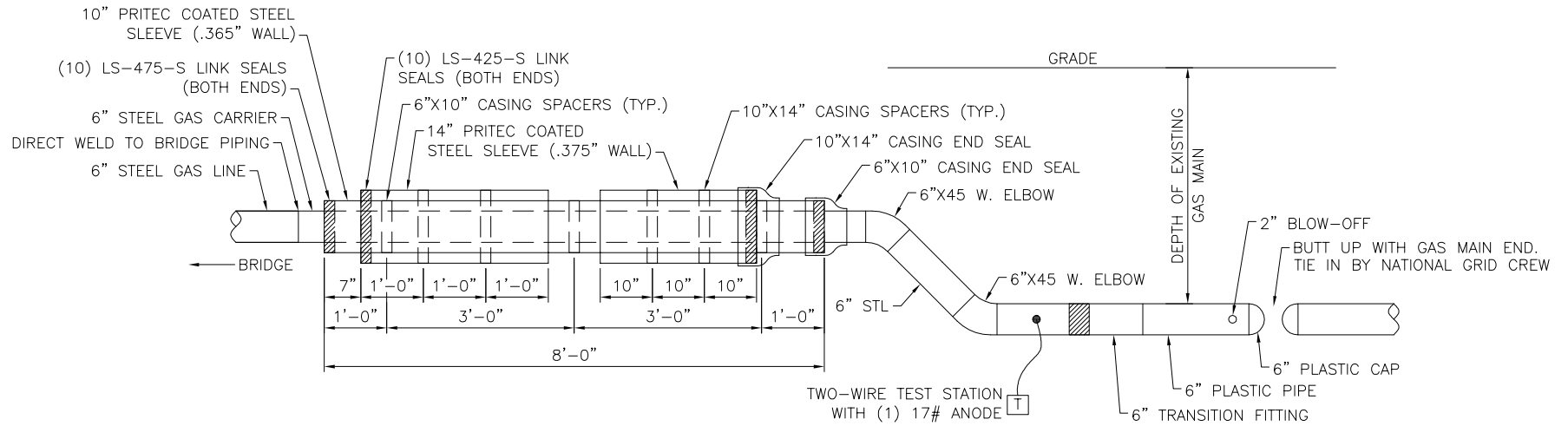
#### National Grid Gas

Tie-In temp gas main and abandon bridge main and install valves and stubs:	4 days
Tie-In proposed main sections:	2 days
Tie-In at sidewalk area after bridge slide:	3 days
Cut and abandon temp gas line:	2 days

#### Crown Castle Fiber

Mr. Bob Powers  
80 Central St, Boxborough, MA 01719  
978-264-6020  
Bob.Powers@crowncastle.com





GAS LINE BACKWALL PENETRATION DETAIL

SCALE: N.T.S.

NATIONAL GRID

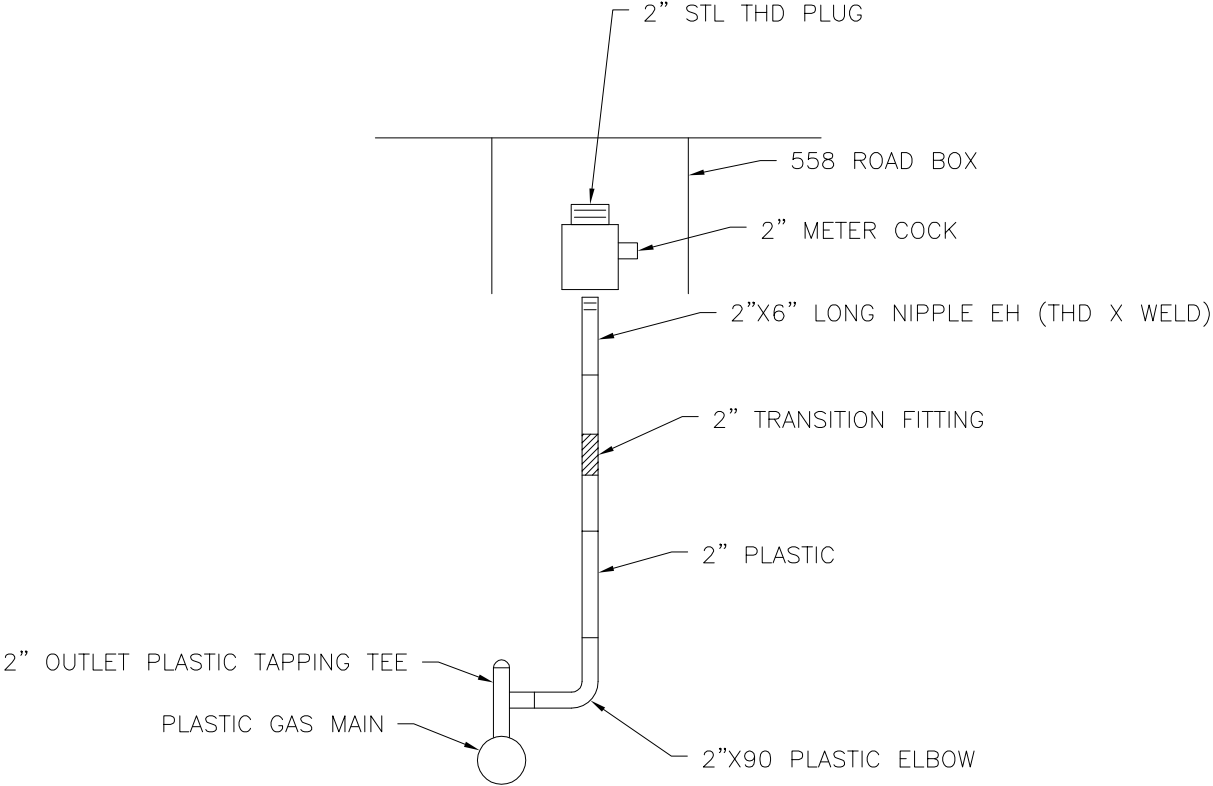
**EXHIBIT 1**

**REVISIONS: NEW DRAWING**

DATE: 06/03/2019

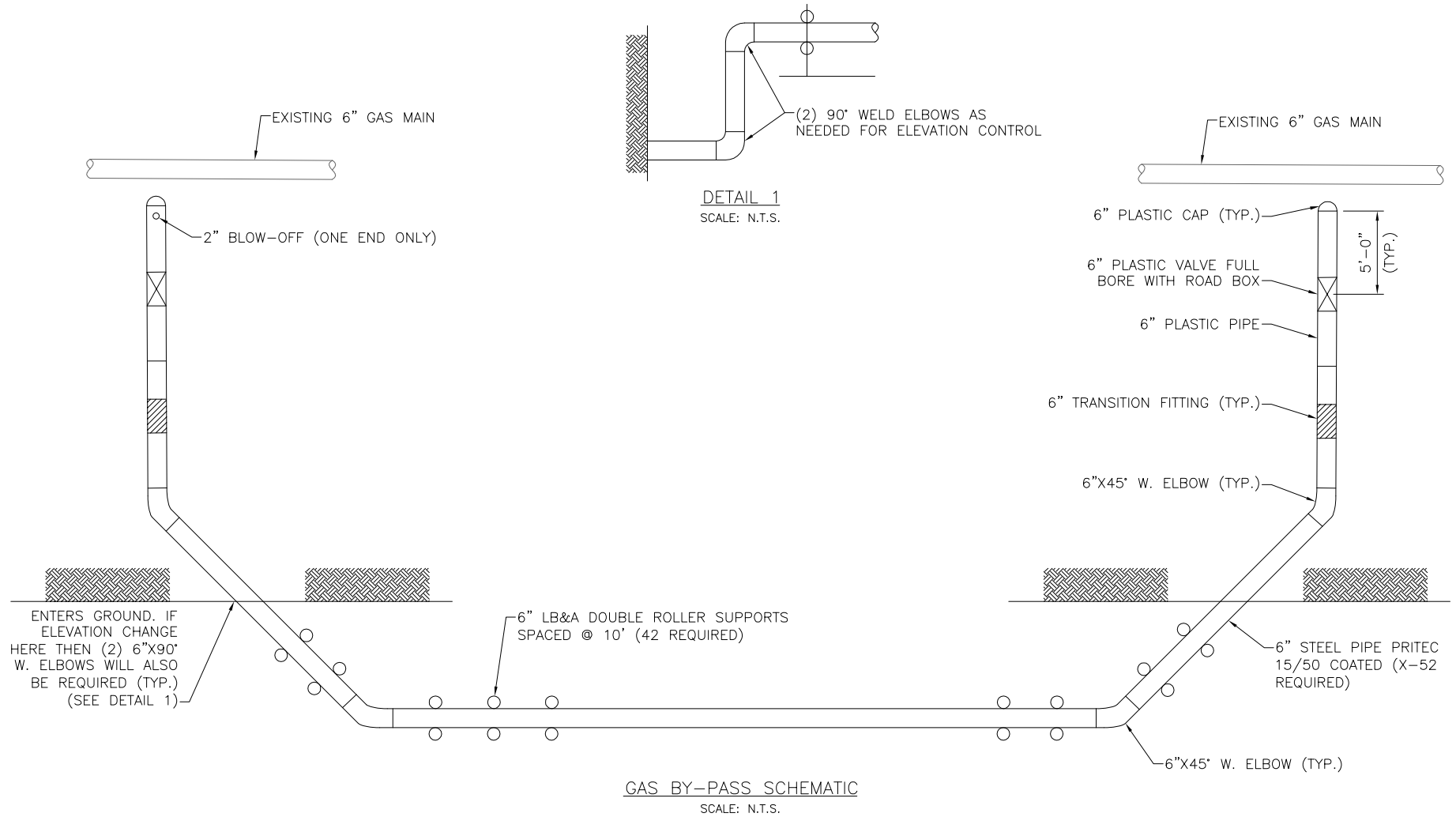
DESIGN: J. PAULETTE

DRAWN: JTH



BLOW-OFF DETAIL  
SCALE: N.T.S.

NATIONAL GRID	EXHIBIT 2	
REVISIONS: NEW DRAWING	DATE: 06/03/2019	
	DESIGN: J. PAULETTE	
	DRAWN: JTH	



NATIONAL GRID

## EXHIBIT 3

REVISIONS: NEW DRAWING

DATE: 06/03/2019

DESIGN: J. PAULETTE

DRAWN: JTH

INDEX  
SPECIFICATIONS – JOB SPECIFIC  
RI CONTRACT NO. 2018-CB-088

CODE	TITLE	PAGE
SECTION 101.80	WINTER SHUTDOWN .....	1
SECTION 104.16	VALUE ENGINEERING CHANGE PROPOSAL .....	2A
SECTION 107.71	SUBSTANTIAL COMPLETION.....	2
SECTION 108.07	DETERMINATION AND EXTENSION OF CONTRACT TIME .....	3
SECTION 108.08	FAILURE TO COMPLETE ON TIME .....	4
SECTION 108.1000	PROSECUTION AND PROGRESS.....	5
SECTION 108.9901	ICT1 DIVISION STREET BRIDGE NO. 760.....	6
SECTION 108.9902	ICT2 ROUTE 4 NORTHBOUND .....	6
SECTION 108.9903	ICT3 ROUTE 4 SOUTHBOUND .....	6
SECTION 109.06	PAYMENT FOR WORK.....	8
CODE 201.9902	INSPECTION AND TESTING FOR ASBESTOS CONTAINING MATERIALS.....	12
CODE 201.9903	REMOVE AND DISPOSAL OF ASBESTOS CONTAINING MATERIALS.....	14
CODE 212.1000	MAINTENANCE AND CLEANING OF EROSION AND POLLUTION CONTROLS .....	17
CODE 301.9902	STONE FILL FOR PROTECTIVE SLEEVES .....	18
CODE 402.9901	FRICTION COURSE .....	19
CODE 701.9901	12" DUCTILE IRON WATER PIPE – INSULATED - TEMPORARY.....	23
CODE 701.9902	12" DUCTILE IRON WATER PIPE – NON-INSULATED - TEMPORARY .....	23
CODE 701.9903	12" DUCTILE IRON WATER PIPE – INSULATED - PROPOSED .....	23
CODE 701.9904	12" DUCTILE IRON WATER PIPE – NON-INSULATED - PROPOSED .....	23
CODE 701.9905	INSTALL 6" GAS MAIN ACROSS BRIDGE.....	26
CODE 701.9906	INSTALL 6" GAS MAIN ACROSS TEMPORARY UTILITY BRIDGE .....	26
CODE 701.9907	INSTALL 6" GAS MAIN .....	26
CODE 702.9901	MODIFIED PRECAST PERPENDICULAR DOUBLE GRATE CATCH BASIN 4' SQUARE .....	28
CODE 702.9902	STORMWATER TREATMENT UNIT (JELLYFISH).....	29A

CODE 802.9901 TEMPORARY UTILITY BRIDGE.....	29
CODE 803.9901 REMOVAL OF TEMPORARY BRIDGE ELEMENTS.....	31
CODE 804.9901 STEEL H PILES FURNISH AND PLACE 14 INCH 117 LB/FT .....	32
CODE 804.9903 STEEL H PILES FURNISH AND PLACE 12 INCH 117 LB/FT – TEMPORARY .....	32
CODE 804.9905 PREBORING .....	32
CODE 804.9902 CORRUGATED PLASTIC PROTECTIVE SLEEVES .....	35
CODE 804.9904 COATING FOR STEEL PILES .....	36
CODE 805.9901 MSE WRAP FACE RETAINING WALL SYSTEM.....	41
CODE 805.9902 MSE WRAP FACE RETAINING WALL SYSTEM TEMPORARY .....	41
CODE 805.9903 MSE WALLS PRECAST CONCRETE FACING .....	52
CODE 808.9901 CONCRETE SUPERSTRUCTURE CLASS HP ½” BRIDGE DECK CLOSURE POURS .....	59
CODE 808.9924 PRECAST CONCRETE WALL PANEL FORMLINER FINISH.....	61
CODE 824.9901 AASHTO M270 GRADE 50 STEEL - TEMPORARY .....	64
CODE 824.9970 TEMPORARY TRAFFIC PLATE .....	65
SECTION 825 PAINTING STRUCTURAL STEEL .....	67
CODE 826.1000 PERSONNEL AND ENVIRONMENTAL PROTECTION .....	68
CODE 828.9901 ELASTOMERIC BEARINGS LAMINATED – TYPE 1.....	75
CODE 828.9902 ELASTOMERIC BEARINGS LAMINATED – TYPE 2.....	75
CODE 828.9903 ELASTOMERIC BEARINGS LAMINATED – TYPE 3.....	75
CODE 828.9904 ELASTOMERIC BEARINGS LAMINATED – TYPE 4.....	75
CODE 899.9901 BRIDGE SUPERSTRUCTURE SLIDE .....	76
CODE 903.9901 PROTECTIVE FENCE .....	86
CODE 907.1000 WATER FOR DUST CONTROL.....	87
CODE 916.9901 TEMPORARY IMPACT ATTENUATION SYSTEM.....	88
CODE 916.9902 IMPACT ATTENUATION SYSTEM.....	90A
CODE 926.9901 UNANCHORED CONCRETE BARRIER FOR TRAFFIC CONTROL (MASH TL-4).....	90B
SECTION 936 MOBILIZATION AND DEMOBILIZATION .....	90
CODE 937.1000 MAINTENANCE AND MOVEMENT OF TPTRAFFIC PROTECTIVE DEVICES .....	92
CODE 938.1000 PRICE ADJUSTMENTS.....	93

CODE 943.0200 TRAINEE MAN-HOURS.....	94
CODE T04.9901 FURNISH AND INSTALL 16 AWG 3 CONDUCTOR CABLE .....	98
CODE T05.9901 FURNISH AND INSTALL HAND-HOLE (COMPOSITE TYPE).....	99
CODE T05.9902 30X30X16 METAL PULLBOX, OUTDOOR (WALL MOUNT TYPE).....	101
CODE T11.9901 FURNISH AND INSTALL 80 FOOT GALVANIZED STEEL CAMERA POLE WITH IP LOWERING DEVICE AND FOUNDATION .....	104
CODE T11.9902 FURNISH AND INSTALL 40 FOOT WOOD SERVICE POLE STANDARD .....	114
CODE T11.9903 TRAVEL TIME GUIDE SIGN.....	115
CODE T12.9901 FURNISH AND INSTALL POLE MOUNTED CABINET, ONE DOOR .....	117
CODE T12.9902 TRAVEL TIME DISPLAY SYSTEM – TWO DESTINATION .....	122
CODE T12.9903 TRAVEL TIME GUIDE SIGN WARRANTY AND SERVICE .....	136
CODE T12.9904 FURNISH AND INSTALL HARDENED ETHERNET SWITCH WITH SFP FIBER OPTIC TRANSCEIVERS .....	137
CODE T13.9901 WAVETRONIX SMARTSENSOR HD AND ANCILLARY COMPONENTS .....	140
CODE T17.9902 OVERHEAD SIGN STRUCTURE 26-30 FOOT CANTILEVER-STEEL .....	149
CODE T17.9903 OVERHEAD SIGN STRUCTURE 66-70 FOOT SPAN - STEEL.....	149

## **CODE 802.9901 TEMPORARY UTILITY BRIDGE**

All work under this item shall be in accordance with Section 802 of the Rhode Island Standard Specifications for Road and Bridge Construction, 2004 Edition (Amended March 2018 and Compilations), revised as follows:

### **DESCRIPTION**

Delete subsection 802.01 and replace with the following:

**802.01 DESCRIPTION.** This work consists of designing, detailing, furnishing, fabricating, erecting, maintaining and subsequent removal of the temporary utility bridge at the location indicated on the Plans, or as directed by the Engineer, for the support of the temporary utility bypasses during demolition of the existing and construction of the proposed Division Street Bridge and until the permanent utility connections are made. Structural steel includes, but is not limited to, carbon, special alloy steels, steel forgings, steel and iron castings and weldments. The Temporary Utility Bridge includes the temporary utility support beams, diaphragms, bracing (including thrust bracing at bend locations), support towers placed at the locations indicated on the plans and any connections between these elements and between the support tower and the concrete footing including base plates and anchor bolts. The concrete footings for the Temporary Utility Bridge and rebar in these concrete footings shall be considered incidental to this item.

This work does not include temporary structural steel used for purposes other than supporting the temporary utility bypasses, including temporary works required for Bridge Superstructure Slide.

**SUBMITTALS:** The Temporary Utility Bridge, its components, utility supports and connections shall be designed and the submittals sealed by a Professional Engineer registered in the State of Rhode Island, who shall provide complete design, detailed shop drawings and computations to the Engineer for review and approval. The designer of the bridge shall coordinate with and complete all design in accordance with the respective utility company requirements. Working drawings and calculations shall be submitted in accordance with Subsection 105.02

### **MATERIALS**

Delete subsection 802.02 and replace with the following:

**802.02 MATERIALS.** The materials used for the construction of temporary bridges shall conform to the applicable requirements of **PART M; MATERIALS**, together with the requirements of the current AISC Steel Construction Manual, ASCE/SEI 7 Minimum Design Loads for Buildings and Other Structures, all applicable requirements of these Specifications, the Plans and Special Provisions.

### **CONSTRUCTION METHODS**

Delete subsection 802.03.2:

Delete subsection 802.03.3 and replace with the following:

**CODE 805.9903**  
**MSE WALLS PRECAST CONCRETE FACING**

**DESCRIPTION:** The work under this item shall consist of designing, engineering, detailing, furnishing materials, and constructing MSE wall precast concrete facing. The MSE wall facing shall consist of concrete leveling pads, precast reinforced concrete facing panels, precast reinforced concrete caps and reinforced concrete coping, precast concrete pilasters, keystone, stone and drain pipes, filter fabric, form liner finish, and mechanical connection of each facing panel to the MSE Retaining Wall System. All work shall be performed in accordance with the Rhode Island Standard Specifications and these Special Provisions.

**Note:** Included under this item of work is the coordination of the MSE Walls Precast Concrete Facing with the furnishing, design, and placement of the MSE Retaining Wall System as specified elsewhere in these Special Provisions. The precast concrete facing shall be supplied by the same company as the MSE Retaining Wall System.

**General Requirements:** All architectural requirements of the contract documents must be satisfied.

The exposed faces of walls shall be entirely precast and shall be consistent in color and texture from the tops of the leveling pads to the tops of the precast concrete caps or copings. The wall panels shall be cast with a surface textured as specified in the special provision Item 808.9924 PRECAST CONCRETE WALL PANEL FORMLINER FINISH.

Detailed Shop Drawings and design calculations, stamped and signed by a Professional Engineer registered in the State of Rhode Island, shall be submitted to the Engineer for review and approval. It shall be solely the Contractor's responsibility to provide all required design, engineering, detailing, and materials and to perform the work by such means and methods as will render a construction that is complete in all respects, all to the satisfaction of the Engineer and all authorities having jurisdiction.

It shall be the responsibility of the Contractor and his MSE wall system designer to review both the soil data and the proposed application of MSE wall system in order to account for appropriate drainage needs and incorporate into the design. A positive drainage system conducted by the MSE wall system designer or a qualified geotechnical engineer retained by the Contractor shall be included in the design and construction, comprising a three dimensional geosynthetic wrapped rigid core covered by geonet allowing flow from both sides, or approved equivalent.

A qualified representative of the wall designer or a qualified geotechnical engineer retained by the Contractor and shall be on site to inspect and approve subgrade conditions immediately prior to commencing installation of the wall system components. A qualified representative of the wall designer shall be onsite at the start of construction for a maximum of three (3) days while wall construction is performed to monitor and approve construction methods, to ensure that the Contractor's procedures satisfy the intent of the design. If there is more than one wall on a project, then this requirement will apply to construction of the initial wall only. The representative shall be available on an "as needed" basis during construction of the remaining wall(s). No separate or additional payment will be made for complying with these requirements.

**SUBMITTALS:** The Contractor shall submit complete and accurate shop drawings to the Engineer for approval in accordance with Subsection 105.02 of the RI Standard Specifications. It shall be understood that all submittals shall be acceptable to the Engineer and shall be resubmitted as many times as necessary for such acceptance, without giving rise to any claims for additional compensation or extension to the time of completion.



**CODE 916.9901**  
**TEMPORARY IMPACT ATTENUATION SYSTEM**

**DESCRIPTION**

Work under the item "Temporary Impact Attenuation System" shall consist of designing, furnishing, installing, removing and repairing temporary impact attenuation systems of the type and size specified on the Plans or as directed by the Engineer. This work shall also include construction of related structures required for the system.

The systems shall have approval in writing from FHWA conforming to the requirements of the NCHRP Report 350, TL-3 test criteria for all locations along Division Street and TL-4 test criteria for all locations along Route 4, non-redirective.

**MATERIALS.**

Material for temporary impact attenuation systems shall conform to the manufacturer's specifications. A materials certificate as defined in Article 106.04 shall be submitted for each system supplied.

**CONSTRUCTION METHODS.**

Temporary Impact Attenuation Systems shall be installed at the locations shown on the Plans according to the manufacturer's specifications, or as directed by the Engineer.

The Contractor shall remove all temporary impact attenuation systems that are no longer needed on the Project.

The temporary impact attenuation system shall be maintained by the Contractor during all stages of construction.

When required, the Contractor shall furnish replacement parts and repair the systems as necessary, but in no case more than 72 hours after notification from the Engineer. Once the Contractor has begun repairs, the area shall remain protected and the work shall continue until all repairs are complete. The repaired system, when completed shall conform to the manufacturer's specifications for a new system. Repairs shall be on a "Force Account" basis as set forth in Subsection 109.04; Para. a.4 of these Specifications. The Contractor shall be responsible for the removal and the proper disposal of all damaged material and debris. Repairs required as a result of manufacturing defects, installation defects or Contractor's operation shall not be on a "Force Account" and shall be completed at no cost to the State.

**METHOD OF MEASUREMENT**

"Temporary Impact Attenuation System" shall be measured by the number of each system installed and accepted by the Engineer.

Adjustment or realignment of any part of the system or modules for Contractor's access or convenience will be done at the Contractor's expense.

**CODE 916.9902**  
**IMPACT ATTENUATION SYSTEM**

**DESCRIPTION:** This item of work shall consist of furnishing and installing the impact attenuators in conformance with the manufacturer's specifications and in conformance with the location shown on the Plans.

**MATERIALS:** All materials used in the foundation and anchorage of impact attenuation system shall meet the requirements of the manufacturer's recommendations. The impact attenuation system may be any impact attenuator which meets the requirements of the National Cooperative Highway Research Program, Report 350 (NCHRP 350), Test Level 2 and its subsequent revisions, or the Manual for Assessing Safety Hardware (MASH) and has been accepted by the Federal Highway Administration for use in the location intended. The impact attenuation system shall be designed for Test Level 2 (TL-2) at a design speed of 45 miles per hour. The impact attenuation system shall be compatible with the barrier or other device it is attached to or protecting. The type of impact attenuation system selected shall have as small a footprint as possible while providing its intended function.

The impact attenuation system shall be a non-redirective and gating type attenuator designed to protect hazards equal to or less than two (2) feet in width.

**CONSTRUCTION METHODS:** All impact attenuation systems shall be installed in accordance with the Manufacturer's recommendations. The Contractor shall furnish a manufacturer's installation manual to the Engineer prior to installing the unit.

**METHOD OF MEASUREMENT:** "Impact Attenuation System" will be measured by the number of units of EACH type actually installed in accordance with the plans and/or as directed by the Engineer.

**BASIS OF PAYMENT:** The accepted quantity of "Impact Attenuation System" 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 furnishing and installing all materials, filling agent, tools, labor and equipment, field adjustments and settings and all other incidentals required to finish the work, complete in place, and accepted by the Engineer.

**CODE 926.9901**

**UNANCHORED BARRIER FOR TEMPORARY TRAFFIC CONTROL (MASH TL-4)**

**DESCRIPTION.** This work consists of furnishing, installing, maintaining, and removing unanchored barrier for temporary traffic control at the locations shown on the Plans or as directed by the Engineer in conformance with the applicable sections of the Standard Specifications.

**MATERIALS.** The unanchored barrier for temporary traffic control shall meet the requirements of the Manual for Assessing Safety Hardware (MASH) 2016 and has been accepted by the Federal Highway Administration for use in the location intended. The unanchored barrier for temporary traffic control shall be designed for Test Level 4 (TL-4) for all barrier to be placed on Route 4.

Delineators shall have a minimum of 9 square inches of reflective surface area. The unit shall be capable of being mounted on the side of barrier by use of an adhesive or other method approved by the manufacturer. Such delineators may be one of those products which appear on the Department's Approved Materials List.

**CONSTRUCTION METHODS.** All barrier for temporary traffic control shall be installed in accordance with the Manufacturer's recommendations. The barrier used for temporary traffic control shall be placed on the pavement at the locations indicated on the Plans or as directed by the Engineer. Care shall be exercised during transporting, storing, hoisting and handling of the units to prevent damage. No damaged units or units that have markings painted on them from previous work sites shall be installed. Units showing defects or damage as a result of the Contractor's operations or negligence shall be removed and replaced or repaired by the Contractor, and at no additional cost to the State if due to the Contractor's operations or negligence.

The barrier units shall be placed in such a manner as not to leave exposed blunt ends of said units.

White delineators shall be installed on the right side of the travel way and amber delineators on the left side of the travel way. The delineators shall be installed at 50-foot intervals and they shall be located 3 inches from the top of the barriers.

Upon completion of the work the Contractor shall completely remove and legally dispose of said barrier units from the project site.

**METHOD OF MEASUREMENT.** "Unanchored Barrier for Temporary Traffic Control (Mash TL-4)", "will be measured in "Linear Foot" of continuous runs of those units actually placed in accordance with the Plans and/or as directed by the Engineer. The measured length includes all joints between the units.

**BASIS OF PAYMENT.** The accepted quantities of "Unanchored Barrier for Temporary Traffic Control (Mash TL-4)", will be paid for at the respective contract unit price per "Linear Foot" as listed in the Proposal. The price so-stated constitutes full and complete compensation for all labor, tools, materials, equipment, placement of the units in accordance with the Plans, furnishing, hauling, handling, any new parts required to secure the units to the pavement or to adjacent units, maintaining, reflective delineators, bolts, anchors, nuts, washers, hardware, subsequent removal of said units and for all incidentals required to finish the work, complete and accepted by the Engineer.

The Contractor will not be compensated for any work necessary to realign the barrier units if they are disturbed or damaged as a result of the Contractor's operations.

The Contractor will be paid 90 percent of the contract unit price when the barrier units are in place. The remaining 10 percent of the contract unit price will be paid when the barrier units have been removed from the project.

**CODE 938.1000**  
**PRICE ADJUSTMENTS**

**DESCRIPTION**

- a. Liquid Asphalt Cement.** The Base Price of Liquid Asphalt Cement as required to implement **Subsection 938.03.1** of the Standard Specifications is \$547.50 per ton as of May 20, 2019.
- b. Diesel Fuel.** The Base Price of Diesel Fuel as required to implement **Subsection 938.03.2** of the Standard Specifications is \$2.0081 per gallon as of June 3, 2019.
- c. Steel.** The Base Prices of Steel (effective January 2019) as required to implement Subsection 938.03.3 of the Standard Specifications are listed in the following table.

**Table of Contents - Distribution of Quantities**

Project Name - Bridge Group 58A - Division St  
Estimate Name - Addendum No. 6 to Bridge 760 - Advertising  
R.I. Contract No. - 2018-CB-088  
FAP Nos: BRO-0760-003

<b>ItemCode</b>	<b>Description</b>	<b>Page</b>
108.9901	ICT1, DIVISION STREET BRIDGE NO. 760	1
108.9902	ICT2, ROUTE 4 SOUTHBOUND	1
108.9903	ICT3, ROUTE 4 NORTHBOUND	1
201.0320	CLEARING AND GRUBBING	1
201.0401	REMOVE AND DISPOSE GRANITE CURB	1
201.0406	REMOVE AND DISPOSE HIGHWAY BOUNDS	2
201.0409	REMOVE AND DISPOSE FLEXIBLE PAVEMENT	2
201.0410	REMOVE AND DISPOSE CATCH BASINS	2
201.0414	REMOVE AND DISPOSE PIPE - ALL SIZES	2
201.0415	REMOVE AND DISPOSE GUARDRAIL AND POST ALL TYPES	3
201.0419	REMOVE AND DISPOSE FENCE	3
201.0428	REMOVE AND DISPOSE FRAME AND GRATE OR FRAME AND COVER	3
201.0432	REMOVE AND DISPOSE HEADWALL	3
201.0613	REMOVE AND STOCKPILE LIGHT STANDARDS	4
201.0616	REMOVE AND DISPOSE LIGHT STANDARD FOUNDATIONS	4
201.0622	REMOVE AND DISPOSE OVERHEAD SIGN PANEL	4
201.9902	INSPECTION AND TESTING FOR ASBESTOS CONTAINING MATERIALS	4
201.9903	REMOVE AND DISPOSAL OF ASBESTOS CONTAINING MATERIALS	4
202.0100	EARTH EXCAVATION	5
<b>202.0700</b>	<b>COMMON BORROW</b>	<b>5</b>
203.0100	STRUCTURAL EXCAVATION EARTH	6
203.0220	STRUCTURAL EXCAVATION ROCK MECHANICAL	6
203.0650	CRUSHED STONE FILL UNDER STRUCTURES	6
204.0100	TRIMMING AND FINE GRADING	6
205.0270	TRENCH ROCK EXCAVATION-MECHANICAL (0-7')	7
206.0312	COMPOST FILTER SOCK 12 INCH DIAMETER	7
209.0110	BALED HAY CATCH BASIN INLET PROTECTION STANDARD 9.8.0	7
212.2000	CLEANING AND MAINTENANCE OF EROSION CONTROLS	8
301.9902	STONE FILL FOR PROTECTIVE SLEEVES	8
302.0100	GRAVEL BORROW SUBBASE COURSE	8
401.1000	CLASS 19.0 HMA	8
401.2000	CLASS 12.5 HMA	9
401.3000	CLASS 9.5 HMA	9
402.9901	FRICTION COURSE	10
403.0300	ASPHALT EMULSION TACK COAT	10
<b>410.1000</b>	<b>TEMPORARY PATCHING MATERIAL/TRENCHES</b>	<b>11</b>
603.1000	CONTROLLED LOW STRENGTH MATERIAL	11
701.0612	REINFORCED CONCRETE PIPE M 170 CLASS V 12 INCH	11
701.0618	REINFORCED CONCRETE PIPE M 170 CLASS V 18 INCH	12
<b>701.5812</b>	<b>** ITEM DELETED **</b>	<b>12</b>
701.8112	12 INCH GATE VALVE AND BOX	12
701.9901	12" DUCTILE IRON WATER PIPE - INSULATED - TEMPORARY	12
701.9902	12" DUCTILE IRON WATER PIPE - NON-INSULATED - TEMPORARY	13
701.9903	12" DUCTILE IRON WATER PIPE - INSULATED - PROPOSED	13
701.9904	12" DUCTILE IRON WATER PIPE - NON-INSULATED - PROPOSED	13
701.9905	INSTALL 6" GAS MAIN ACROSS BRIDGE	13
701.9906	INSTALL 6" GAS MAIN ACROSS TEMPORARY UTILITY BRIDGE	13
701.9907	INSTALL 6" GAS MAIN	13
702.0516	FRAME AND GRATE, HIGH CAPACITY, STANDARD 6.3.4	14
702.0517	FRAME AND GRATE, STANDARD 6.3.2	14
702.0522	FRAME AND COVER STANDARD 6.2.1	14
702.0542	GRANITE APRON STONE 5FT. STANDARD 7.3.7	14
702.0630	PRECAST MANHOLE 4' DIAMETER STANDARD 4.2.0	15
702.0704	CATCH BASIN TYPE 'F' SQUARE STANDARD 3.3.2	15

**Table of Contents - Distribution of Quantities**

Project Name - Bridge Group 58A - Division St  
Estimate Name - Addendum No. 6 to Bridge 760 - Advertising  
R.I. Contract No. - 2018-CB-088  
FAP Nos: BRO-0760-003

<b>ItemCode</b>	<b>Description</b>	<b>Page</b>
<b>702.0717</b>	<b>DOUBLE GRATE CATCH BASIN STANDARD 3.3.5</b>	<b>15</b>
702.0722	SOLID BLOCK SHALLOW TYPE "F" SQUARE CATCH BASIN STANDARD 3.5.0	16
702.0725	SOLID BLOCK SHALLOW DOUBLE GRATE CATCH BASIN STANDARD 3.5.2	16
702.9901	MODIFIED PRECAST PERPENDICULAR DOUBLE GRATE CATCH BASIN 4' SQUARE	16
706.9000	PLUG AND CAP PIPE ALL SIZES	16
708.9040	CLEANING AND FLUSHING PIPE ALL SIZES	16
708.9041	CLEANING CATCH BASINS ALL TYPES AND SIZES	17
709.0200	CONCRETE HEADWALLS FOR PIPE CULVERTS STANDARD 2.1.0	17
711.0110	3'' PAVED WATERWAY CLASS I-1 STANDARD 8.4.0	17
713.8300	ADJUST GAS GATE BOXES TO GRADE	17
802.9901	TEMPORARY UTILITY BRIDGE	17
803.0000	REMOVAL OF EXISTING BRIDGES	18
803.0500	TEMPORARY DECK UNDERSIDE AND SIDE PROTECTIVE SHIELDING	18
803.9901	REMOVAL OF TEMPORARY BRIDGE ELEMENTS	18
804.9901	STEEL H PILES, FURNISH AND PLACE 14IN 117 LB/FT	18
804.9902	CORRUGATED PLASTIC PROTECTIVE SLEEVES	18
804.9903	STEEL H PILES FURNISH AND PLACE 14 IN 117 LB/FT - TEMPORARY	19
804.9905	PREBORING	19
805.4100	SOLDIER PILES DRIVE, STEEL	19
805.4400	TIMBER LAGGING - INSTALLED	19
805.9901	MSE WRAP FACE RETAINING WALL SYSTEM	19
805.9902	MSE WRAP FACE RETAINING WALL SYSTEM - TEMPORARY	20
<b>805.9903</b>	<b>MSE WALLS PRECAST CONCRETE FACING</b>	<b>20</b>
808.0322	CONCRETE SUBSTRUCTURE CLASS HP 3/4'' END POSTS	20
<b>808.0501</b>	<b>CONCRETE SUBSTRUCTURE CLASS XX 3/4" FOOTINGS</b>	<b>20</b>
808.0505	CONCRETE SUBSTRUCTURE CLASS HP 3/4'' WALL STEMS	21
808.0508	CONCRETE SUBSTRUCTURE CLASS XX 3/4'' APPROACH SLABS	21
<b>808.0601</b>	<b>CONCRETE SUBSTRUCTURE CLASS HP 3/4'' PIERS, COL, CAP</b>	<b>21</b>
808.1501	CONCRETE SUPERSTRUCTURE CLASS HP 3/4'' BRIDGE DECKS	21
808.1502	CONCRETE SUPERSTRUCTURE CLASS HP 3/4'' BRIDGE SIDEWALKS	22
808.1503	CONCRETE SUPERSTRUCTURE CLASS HP 3/4'' PARAPETS	22
808.1640	PREFORMED POLYETHYLENE FOAM JOINT FILLER 1/2''	22
808.1642	PREFORMED POLYETHYLENE FOAM JOINT FILLER 1''	22
808.9901	CONCRETE SUPERSTRUCTURE CLASS HP 1/2" BRIDGE DECKS CLOSURE POURS	22
810.0200	STANDARD BARS GRADE 60	22
810.0210	GALVANIZED BAR REINFORCEMENT GRADE 60	23
814.0100	DIAMOND GRINDING OF CONCRETE BRIDGE DECKS	23
819.0800	DRILL AND GROUT REINFORCING DOWELS	23
820.0110	CONCRETE SURFACE TREATMENT (PROTECTIVE COATING)	23
823.1750	ASPHALTIC EXPANSION JOINT SYSTEM	23
824.0424	AASHTO M270 GRADE 50 STEEL FURNISH FAB. & ERECT BUILT UP CONTINUOUS SPANS	24
824.0610	WELDED STUD SHEAR CONNECTORS 7/8 INCH DIAMETER	24
824.9901	AASHTO M270 GRADE 50 STEEL - TEMPORARY	24
824.9970	TEMPORARY TRAFFIC PLATES	24
828.9901	ELASTOMERIC BEARINGS LAMINATED - TYPE 1	24
828.9902	ELASTOMERIC BEARINGS LAMINATED - TYPE 2	25
828.9903	ELASTOMERIC BEARINGS LAMINATED - TYPE 3	25
828.9904	ELASTOMERIC BEARINGS LAMINATED - TYPE 4	25

**Table of Contents - Distribution of Quantities**

Project Name - Bridge Group 58A - Division St  
Estimate Name - Addendum No. 6 to Bridge 760 - Advertising  
R.I. Contract No. - 2018-CB-088  
FAP Nos: BRO-0760-003

<b>ItemCode</b>	<b>Description</b>	<b>Page</b>
830.0240	STEEL BRIDGE RAIL 4 BAR COMBINATION	25
832.8050	BRIDGE MINIMUM CLEARANCE SIGNS	25
833.0400	GRANITE IDENTIFICATION TABLETS	25
<b>834.0131</b>	<b>VERTICAL FACE GRANITE CURB STRAIGHT 7'' REVEAL</b>	<b>26</b>
899.9901	BRIDGE SUPERSTRUCTURE SLIDE	26
901.0175	STEEL THRIE BEAM GUARDRAIL SINGLE FACE STANDARD 34.5.3	26
901.0190	GUARDRAIL STEEL BEAM ANCHORAGE APPROACH SECTION STANDARDS 34.3.1 AND 34.3.3	26
901.0191	GUARDRAIL STEEL BEAM ANCHORAGE TRAILING END SECTION STANDARD 34.3.4	26
901.0193	GUARDRAIL STEEL BEAM SINGLE FACE STANDARD 34.2.0	27
901.0198	GUARDRAIL END TREATMENT, NON-ENERGY ABSORBING TERMINAL	27
901.0199	GUARDRAIL END TREATMENT, ENERGY ABSORBING TERMINAL	27
903.0206	CHAIN LINK FENCE 6' STD 31.2.0	27
903.9901	PROTECTIVE FENCE	28
906.0110	GRANITE CURB, QUARRY SPLIT STRAIGHT, STANDARD 7.3.0	28
906.0111	GRANITE CURB, QUARRY SPLIT CIRCULAR, STANDARD 7.3.0	28
907.0100	WATER FOR DUST CONTROL	28
907.0200	CALCIUM CHLORIDE FOR DUST CONTROL (PROJECT WIDE)	29
909.3010	PRECAST MEDIAN BARRIER DOUBLE-FACED STANDARD 40.1.0	29
914.5010	FLAGPERSONS	29
914.5020	FLAGPERSONS - OVERTIME	29
915.0100	HIGHWAY BOUND GRANITE STANDARD 14.2.0	29
916.9901	TEMPORARY IMPACT ATTENUATION SYSTEM	30
916.9902	IMPACT ATTENUATION SYSTEM	30
919.0101	TEST PITS	30
920.0070	DUMPED STONE RIPRAP R-3, R-4, 4-5 STANDARD 8.3.0	30
920.0150	BEDDING FOR RIPRAP FS-2 STANDARD 8.3.0	31
920.0200	FILTER FABRIC FOR RIP-RAP	31
922.0100	TEMPORARY CONSTRUCTION SIGNS STANDARD 29.1.0 AND 27.1.1	31
923.0105	DRUM BARRICADE STANDARD 26.2.0	32
923.0200	FLUORESCENT TRAFFIC CONES STANDARD 26.1.0	32
925.0112	PORTABLE CHANGEABLE MESSAGE SIGN	32
<b>926.0121</b>	<b>UNANCHORED PRECAST CONCRETE BARRIER FOR TEMPORARY TRAFFIC CONTROL STANDARD 40.5.0</b>	<b>33</b>
926.0140	REFLECTIVE DELINEATORS FOR TEMPORARY CONCRETE BARRIERS	33
929.0110	FIELD OFFICE	33
931.0110	CLEANING AND SWEEPING PAVEMENT	33
932.0100	CUTTING AND MATCHING ASPHALT	34
935.0400	REMOVING BITUMINOUS PAVEMENT BY MICRO MILLING	34
936.0100	MOBILIZATION AND DEMOBILIZATION	34
937.0200	MAINTENANCE AND MOVEMENT TRAFFIC PROTECTION	35
939.0500	STONE WALLS IN HISTORIC, SCENIC OR RURAL AREAS (FREE- STANDING, DRY MASONRY)	35
943.0200	TRAINEE MAN-HOURS	35
L01.0102	LOAM BORROW 4 INCHES DEEP	35
L02.0101	GENERAL HIGHWAY SEEDING (TYPE 1)	35
L05.0505	EROSION CONTROL BLANKET	35
T04.9901	FURNISH AND INSTALL 16AWG 3 CONDUCTOR CABLE	36
T05.9901	FURNISH AND INSTALL HAND-HOLE (COMPOSITE TYPE)	36
T05.9902	30X30X16 METAL PULLBOX, OUTDOOR (WALL MOUNT TYPE) COMMUNICATION/POWER	36
T06.2020	2 IN. RIGID STEEL CONDUIT-OVERHEAD	36

**Table of Contents - Distribution of Quantities**

Project Name - Bridge Group 58A - Division St  
Estimate Name - Addendum No. 6 to Bridge 760 - Advertising  
R.I. Contract No. - 2018-CB-088  
FAP Nos: BRO-0760-003

<b>ItemCode</b>	<b>Description</b>	<b>Page</b>
T06.5220	2 INCH SCHEDULE 80 POLYVINYL CHLORIDE PLASTIC CONDUIT - UNDERGROUND	36
T07.1400	FURNISH AND INSTALL 400 WATT HIGH PRESSURE SODIUM LUMINAIRE	37
T08.0100	LIGHT STANDARD FOUNDATION WITH ANCHOR BOLTS STANDARD 18.1.0	37
T08.2041	ALUMINUM LIGHTING STD. 40 FT. W/ SINGLE DAVIT ARM EXTN. 10 FT. STANDARD 18.3.0	37
T11.9901	FURNISH AND INSTALL 80FT GALVANIZED STEEL CAMERA POLE WITH IP LOWERING DEVICE AND FOUNDATION	37
T11.9902	FURNISH AND INSTALL 40FT WOOD SERVICE POLE STANDARD	38
T11.9903	TRAVEL TIME GUIDE SIGN	38
T12.9150	METER SOCKET W/MANUAL BY-PASS	38
T12.9901	FURNISH AND INSTALL POLE MOUNTED CAMERA CONTROL CABINET, ONE DOOR	38
T12.9902	TRAVEL TIME DISPLAY SYSTEM - TWO DESTINATION	38
T12.9903	TRAVEL TIME GUIDE SIGN WARRANTY AND SERVICE	38
T12.9904	FURNISH AND INSTALL HARDENED ETHERNET SWITCH WITH SFP FIBER OPTIC TRANSCEIVERS	39
T13.1000	TRAFFIC DETECTORS-LOOP, STANDARD 19.6.0	39
T13.9901	WAVETRONIX SMARTSENSOR HD & ANCILLARY COMPONENTS	39
T15.0200	REMOVE AND RELOCATE DIRECTIONAL REGULATORY AND WARNING SIGN	39
T16.0100	GROUND MOUNTED PRIMARY DIRECTIONAL SIGN PANELS EXTRUDED ALUMINUM	39
T17.0100	OVERHEAD SIGN PANELS	40
<b>T17.0203</b>	<b>** ITEM DELETED **</b>	<b>40</b>
<b>T17.0211</b>	<b>** ITEM DELETED **</b>	<b>40</b>
<b>T17.9901</b>	<b>** ITEM DELETED **</b>	<b>40</b>
T20.1000	REMOVE EXISTING PAVEMENT MARKINGS	40
T20.2006	6 INCH EPOXY RESIN PAVEMENT MARKINGS WHITE	41
T20.2012	12 INCH EPOXY RESIN PAVEMENT MARKINGS WHITE	41
T20.2014	4 INCH EPOXY RESIN PAVEMENT MARKINGS YELLOW	41
T20.2206	6 INCH TEMPORARY EPOXY RESIN PAVEMENT MARKINGS WHITE	42
T20.2306	6 INCH TEMPORARY EPOXY RESIN PAVEMENT MARKINGS YELLOW	42
201.0412	REMOVE AND DISPOSE MANHOLE	42
201.0623	REMOVE AND DISPOSE OVERHEAD SIGN STRUCTURE	42
202.0800	GRAVEL BORROW	43
702.9902	STORMWATER TREATMENT UNIT (JELLYFISH)	43
T16.0300	GROUND MOUNTED PRIMARY DIRECTIONAL SIGN POST-STEEL BREAKAWAY	43
401.3002	CLASS 9.5 HMA FOR LEVELLING	43
T17.9902	OVERHEAD SIGN STRUCTURE 26-30 FOOT CANTILEVER - STEEL	43
T17.9903	OVERHEAD SIGN STRUCTURE 66-70 FOOT SPAN - STEEL	44
<b>905.0110</b>	<b>PORTLAND CEMENT SIDEWALK MONOLITHIC STANDARD 43.1.0</b>	<b>44</b>
<b>926.9901</b>	<b>UNANCHORED CONCRETE BARRIER FOR TRAFFIC CONTROL (MASH TL-4)</b>	<b>44</b>



**Distribution of Quantities**

Project Name - Bridge Group 58A - Division St  
 Estimate Name - Addendum No. 6 to Bridge 760 - Advertising  
 R.I. Contract No. - 2018-CB-088  
 FAP Nos: BRO-0760-003

Item No.	Item Code	Description	UM	Qty.	Pay Code	Seq. No.
076	805.9902	MSE WRAP FACE RETAINING WALL	SY			
		SYSTEM - TEMPORARY				
		BRIDGE 760				
		TEMP BACKWALLS		295.00	0011	01
		TEMP EAST ABUT FRONT FACE		120.00	0011	01
		TEMP NORTHEAST WINGWALL		35.00	0011	01
		TEMP NW WINGWALL		170.00	0011	01
		TEMP WEST ABUT FRONT FACE		280.00	0011	01
Item 805.9902 Total:				900.00		
077	805.9903	MSE WALLS PRECAST CONCRETE FACING	SY			
		BRIDGE 760				
		BACKWALL		630.00	0011	01
		FRONT FACE EAST ABUT		125.00	0011	01
		FRONT FACE WEST ABUT		275.00	0011	01
		SE WINGWALL		12.00	0011	01
		SW WINGWALL		49.00	0011	01
Item 805.9903 Total:				400.00		
078	808.0322	CONCRETE SUBSTRUCTURE CLASS HP	CY			
		3/4" END POSTS				
		DIVISION STREET				
		48+69.34 TO 51+19.34		10.00	0011	01
Item 808.0322 Total:				10.00		
079	808.0501	CONCRETE SUBSTRUCTURE CLASS XX	CY			
		3/4" FOOTINGS				
		BRIDGE 760				
		PIER FOOTING			0011	01
		ROCK SOCKETS		30.00	0011	01
		TEMP FOOTING		140.00	0011	01
Item 808.0501 Total:				170.00		

**Distribution of Quantities**

Project Name - Bridge Group 58A - Division St  
 Estimate Name - Addendum No. 6 to Bridge 760 - Advertising  
 R.I. Contract No. - 2018-CB-088  
 FAP Nos: BRO-0760-003

Item No.	Item Code	Description	UM	Qty.	Pay Code	Seq. No.
080	808.0505	CONCRETE SUBSTRUCTURE CLASS HP	CY			
		3/4'' WALL STEMS				
		BRIDGE 760				
		ABUTMENT TABs		5.00	0011	01
		CHEEK WALLs		10.00	0011	01
		CROSS GIRDERS		110.00	0011	01
		CURTAIN WALL CORBELS		10.00	0011	01
		CURTAIN WALL FOOTINGS		40.00	0011	01
		CURTAIN WALLS		45.00	0011	01
		EAST ABUT		225.00	0011	01
		WEST ABUT		225.00	0011	01
Item 808.0505 Total:				670.00		
081	808.0508	CONCRETE SUBSTRUCTURE CLASS XX	CY			
		3/4'' APPROACH SLABS				
		DIVISION STREET				
		EAST APPROACH		53.00	0011	01
		TEMP EAST APPROACH SLAB		53.00	0011	01
		TEMP WEST APPROACH SLAB		53.00	0011	01
		WEST APPROACH		53.00	0011	01
Item 808.0508 Total:				212.00		
082	808.0601	CONCRETE SUBSTRUCTURE CLASS HP	CY			
		3/4'' PIERS, COL, CAP				
		BRIDGE 760				
		COLUMNS		30.00	0011	01
		PIER CAP		58.00	0011	01
		PIER FOOTING		134.00	0011	01
Item 808.0601 Total:				222.00		
083	808.1501	CONCRETE SUPERSTRUCTURE CLASS HP	CY			
		3/4'' BRIDGE DECKS				
		DIVISION STREET				

**Distribution of Quantities**

Project Name - Bridge Group 58A - Division St  
Estimate Name - Addendum No. 6 to Bridge 760 - Advertising  
R.I. Contract No. - 2018-CB-088  
FAP Nos: BRO-0760-003

Item No.	Item Code	Description	UM	Qty.	Pay Code	Seq. No.
083	808.1501	Cont.	48+86.84 TO 51+01.84	650.00	0011	01
Item 808.1501 Total:				650.00		

**Distribution of Quantities**

Project Name - Bridge Group 58A - Division St  
 Estimate Name - Addendum No. 6 to Bridge 760 - Advertising  
 R.I. Contract No. - 2018-CB-088  
 FAP Nos: BRO-0760-003

Item No.	Item Code	Description	UM	Qty.	Pay Code	Seq. No.
106	834.0131	VERTICAL FACE GRANITE CURB	LF			
		STRAIGHT 7'' REVEAL				
		BRIDGE 760				
		BRIDGE AND APP SLAB		485.00	0011	01
		Item 834.0131 Total:		485.00		
S107	899.9901	BRIDGE SUPERSTRUCTURE SLIDE	LS			
		BRIDGE 760				
		48+89.34 TO 50+99.34		1.00	0011	01
		Item 899.9901 Total:		1.00		
108	901.0175	STEEL THRIE BEAM GUARDRAIL SINGLE	LF			
		FACE STANDARD 34.5.3				
		ROUTE 4 NORTHBOUND				
		MEDIAN, STA 425+20 TO STA 435+51		1,080.00	0011	01
		ROUTE 4 SOUTHBOUND				
		MEDIAN, STA 425+33 TO 436+09		1,030.00	0011	01
		Item 901.0175 Total:		2,110.00		
109	901.0190	GUARDRAIL STEEL BEAM ANCHORAGE	EACH			
		APPROACH SECTION STANDARDS 34.3.1				
		AND 34.3.3				
		DIVISION STREET				
		STA 48+83 RT		1.00	0011	01
		STA 51+06 LT		1.00	0011	01
		Item 901.0190 Total:		2.00		
110	901.0191	GUARDRAIL STEEL BEAM ANCHORAGE	EACH			
		TRAILING END SECTION STANDARD				
		34.3.4				
		DIVISION STREET				
		STA 48+74 LT		1.00	0011	01



**Distribution of Quantities**

Project Name - Bridge Group 58A - Division St  
 Estimate Name - Addendum No. 6 to Bridge 760 - Advertising  
 R.I. Contract No. - 2018-CB-088  
 FAP Nos: BRO-0760-003

Item No.	Item Code	Description	UM	Qty.	Pay Code	Seq. No.
183	T17.9902	Cont.		1.00		
		Item T17.9902 Total:		1.00		
184	T17.9903	OVERHEAD SIGN STRUCTURE 66-70 FOOT EACH				
		SPAN - STEEL				
		ROUTE 4 SB				
		432+00		1.00	0011	01
		Item T17.9903 Total:		1.00		
185	905.0110	PORTLAND CEMENT SIDEWALK	CY			
		MONOLITHIC STANDARD 43.1.0				
		DIVISION ST PERMANENT				
		44+64 TO 47+14 LT		30.00	0011	01
		Item 905.0110 Total:		30.00		
186	926.9901	UNANCHORED CONCRETE BARRIER FOR	LF			
		TRAFFIC CONTROL (MASH TL-4)				
		ROUTE 4 TEMPORARY				
		NORTHBOUND, CTR		810.00	0011	01
		NORTHBOUND, RT		440.00	0011	01
		SOUTHBOUND, CTR		450.00	0011	01
		SOUTHBOUND, LT		940.00	0011	01
		Item 926.9901 Total:		2,640.00		