

July 11, 2016

STATE OF RHODE ISLAND AND PROVIDENCE PLANTATION
DEPARTMENT OF ADMINISTRATION

DIVISION OF PURCHASES BID NO. 7550649

RHODE ISLAND DEPARTMENT OF TRANSPORTATION

RHODE ISLAND CONTRACT NO.2016-CB-038

FEDERAL-AID PROJECT NO. FAP Nos: REV 1950(001)

I-195 Relocation – Contract 16 – Providence River Pedestrian Bridge

Providence River Pedestrian Bridge and East Side Park - South Water Street, Providence, RI

CITY/TOWN OF Providence

COUNTY OF PROVIDENCE

NOTICE TO PROSPECTIVE BIDDERS

ADDENDUM NO. 9 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. The answers to two questions on the RIDOT Q&A Website have been revised.

Question: Sheet 117 of 163 - section 2 shows a cantilever slab over the wingwall. Is this the approach slab? Please clarify the limits of the approach slab.

Revised Answer: The limits of the approach slab will be clarified under addendum 9. The cantilever slab is integral with the approach slab, however the cantilever section will be paid for under 808.1501. See addendum 9.

Question:

Some of the Structural Steel Suppliers have asked if the Revit 3D Model is available.

Revised Answer:

This model will be made available to the Contractor to whom the Contract is awarded.

B. Proposal Addition/Deletion

1. Proposal Pages P-39(R-8) and P-40(R-8)

Delete Proposal pages P-39(R-8) and P-40(R-8) in their entirety and replace them with Proposal pages P-40(R-9) and P-41(R-9) attached to this Addendum No. 9. The pages were renumbered as a result of new items added in this Addendum. The Addendum Date has been added. All Proposal pages will be generated by the Quest Lite Program.

C. Specification Change/Addition

1. Special Provisions Index Page iii(R-2)
Delete Special Provision Index page iii(R-2) in its entirety and replace it with Special Provision Index page iii(R-3) attached to this Addendum No. 9. The title of Code 824.9907 has been revised.
2. Special Provisions Index Page v(R-3)
Delete Special Provision Index page v(R-3) in its entirety and replace it with Special Provision Index page v(R-4) attached to this Addendum No. 9. Codes 834.9920 and T06.09906 have been added to the index. Titles for Codes T06.9901, T06.9904 and T06.9905 have been revised.
3. Pages JS-100(R-2), JS101(R-2), JS-102(R-1) through JS-104(R-1), JS-105(R-2), JS-106(R-1) through JS-109(R-1), and JS-110(R-2)
Delete pages JS-100(R-2), JS101(R-2), JS-102(R-1) through JS-104(R-1), JS-105(R-2), JS-106(R-1) through JS-109(R-1), and JS-110(R-2) in their entirety and replace them with pages JS-100(R-3), JS101(R-3), JS-102(R-2) through JS-104(R-2), JS-105(R-3), JS-106(R-2) through JS-109(R-2), and JS-110(R-3) attached to this Addendum No. 9. The hardware requirements have been updated.
4. Pages JS-137 and JS-138(R-1)
Delete pages JS-137 and JS-138(R-1) in their entirety and replace them with pages JS-137(R-1) and JS-138(R-2) attached to this Addendum No. 9. The title for Item Code 824.9907 has been revised. The item includes Rolled Steel such as floor beams, diaphragms, and permanent braces.
5. Pages JS-231(R-2) and JS-232(R-2)
Delete pages JS-231(R-2) and JS-232(R-2) in their entirety and replace them with pages JS-231(R-3) and JS-232(R-3) attached to this Addendum No. 9. Code T06.9906 has been added to the specification. Titles for Codes T06.9901, T06.9904 and T06.9905 have been revised.
6. Pages JS-289, 290, 291 and 292
Add pages JS-289, JS-290, JS-291 and JS-292 attached to this Addendum No. 9. A specification for Item Code 834.9920 has been added to the Contract.

D. Distribution of Quantities

1. DOQ Index Pages 3(R-2) and 5(R-4)
Delete Index Pages 3(R-2) and 5(R-4) in their entirety and replace them with DOQ Index Pages 3(R-3) and 5(R-5) attached to this Addendum No. 9. The titles for Item Code 824.9907, T06.9901, T06.9904 and T06.9905 have been revised. Item Codes 808.1509, 808.9950 and 834.9920 have been added to the index. Item Codes T07.9905 and T07.9907 have been deleted.
2. DOQ Pages 36(R-2) and 36a
Delete DOQ pages 36(R-2) and 36a in their entirety and replace them with DOQ pages 36(R-3) and 36a(R-1) attached to this Addendum No. 9. Item Code 808.1501 has been revised. The revision required the pages to be repaginated.
3. DOQ Pages 40(R-1) and 41(R-1)
Delete DOQ pages 40(R-1) and 41(R-1) in their entirety and replace them with DOQ pages 40(R-2) and 41(R-2) attached to this Addendum No. 9. The title for Item Code 824.9907 has been revised.

4. DOQ page 69(R-2)
Delete DOQ page 69(R-2) in its entirety and replace it with DOQ page 69(R-3) attached to this Addendum No. 9. The title for Item Code T06.9901 has been revised.
5. DOQ Page 74 and 75
Delete DOQ pages 74 and 75 in their entirety and replace them with DOQ pages 74(R-1) and 75(R-1) attached to this Addendum No. 9. The title for Item Codes T06.9904 and T06.9905 have been revised. Item Codes T07.9905 and T07.9907 have been deleted.
6. DOQ Page 76(R-1)
Delete DOQ page 76(R-1) in its entirety and replace it with DOQ page 76(R-2) and new DOQ page 77 attached to this Addendum No. 9. Item Codes 808.1509, 808.9950 and 834.9920 have been added. The revision required the addition of new DOQ page 77.

E. Plans - Volume 2

1. Sheet V2_002(R-1)
Delete Sheet V2_002(R-1) in its entirety and replace it with sheet V2_002(R-2) attached to this Addendum No. 9. Locations for Item Code 834.9920 New Granite Cap at Existing Columns are shown on the plan. Pier flood lights have been removed from the Contract.
2. Sheet V2_003
Delete Sheet V2_003 in its entirety and replace it with sheet V2_003(R-1) attached to this Addendum No. 9. Locations for Item Code 834.9920 New Granite Cap at Existing Columns are shown on the plan. Pier flood lights have been removed from the Contract.
3. Sheet V2_004(R-1)
Delete Sheet V2_004(R-1) in its entirety and replace it with sheet V2_004(R-2) attached to this Addendum No. 9. Locations for Item Code 834.9920 New Granite Cap at Existing Columns are shown on the plan. The requirements for IPE deck hardware have been updated. The callout for masonry veneer has been revised. Pier flood lights have been removed from the Contract.
4. Sheet V2_005(R-1)
Delete Sheet V2_005(R-1) in its entirety and replace it with sheet V2_005(R-2) attached to this Addendum No. 9. Locations for Item Code 834.9920 New Granite Cap at Existing Columns are shown on the plan. The requirements for IPE deck hardware have been updated. The callout for masonry veneer has been revised. Pier flood lights have been removed from the Contract.
5. Sheet V2_012(R-1)
Delete Sheet V2_012(R-1) in its entirety and replace it with sheet V2_012(R-2) attached to this Addendum No. 9. The requirements for IPE deck hardware have been updated. Deck drains have been added.
6. Sheet V2_013(R-1)
Delete Sheet V2_013(R-1) in its entirety and replace it with sheet V2_013(R-2) attached to this Addendum No. 9. The requirements for IPE deck hardware have been updated.
7. Sheet V2_016(R-1)
Delete Sheet V2_016(R-1) in its entirety and replace it with sheet V2_016(R-2) attached to this Addendum No. 9. The requirements for IPE deck hardware have been updated.

8. Sheet V2_017(R-1)
Delete Sheet V2_017(R-1) in its entirety and replace it with sheet V2_017(R-2) attached to this Addendum No. 9. The requirements for IPE deck hardware have been updated.
9. Sheet V2_018(R-1)
Delete Sheet V2_018(R-1) in its entirety and replace it with sheet V2_018(R-2) attached to this Addendum No. 9. The requirements for IPE deck hardware have been updated. Deck drains have been added.
10. Sheet V2_019(R-1)
Delete Sheet V2_019(R-1) in its entirety and replace it with sheet V2_019(R-2) attached to this Addendum No. 9. The requirements for IPE deck hardware have been updated. Deck drains have been added.
11. Sheet V2_020(R-1)
Delete Sheet V2_020(R-1) in its entirety and replace it with sheet V2_020(R-2) attached to this Addendum No. 9. The requirements for IPE deck hardware have been updated.
12. Sheet V2_021(R-2)
Delete Sheet V2_021(R-2) in its entirety and replace it with sheet V2_021(R-3) attached to this Addendum No. 9. The requirements for IPE deck hardware have been updated.
13. Sheet V2_024
Delete Sheet V2_024 in its entirety and replace it with sheet V2_024(R-1) attached to this Addendum No. 9. The requirements for IPE deck hardware have been updated.
14. Sheet V2_026
Delete Sheet V2_026 in its entirety and replace it with sheet V2_026(R-1) attached to this Addendum No. 9. The requirements for IPE deck hardware have been updated.
15. Sheet V2_031(R-1)
Delete Sheet V2_031(R-1) in its entirety and replace it with sheet V2_031(R-2) attached to this Addendum No. 9. Locations for Item Code 834.9920 New Granite Cap at Existing Columns are shown on the plan. Pier flood lights have been removed from the Contract.
16. Sheet V2_032(R-1)
Delete Sheet V2_032(R-1) in its entirety and replace it with sheet V2_032(R-2) attached to this Addendum No. 9. Locations for Item Code 834.9920 New Granite Cap at Existing Columns are shown on the plan. Pier flood lights have been removed from the Contract.
17. Sheet V2_033(R-1)
Delete Sheet V2_033(R-1) in its entirety and replace it with sheet V2_033(R-2) attached to this Addendum No. 9. Locations for Item Code 834.9920 New Granite Cap at Existing Columns are shown on the plan. Pier flood lights have been removed from the Contract.
18. Sheet V2_041(R-1)
Delete Sheet V2_041(R-1) in its entirety and replace it with sheet V2_041(R-2) attached to this Addendum No. 9. The requirements for IPE deck hardware have been updated.

19. Sheet V2_042
Delete Sheet V2_042 in its entirety and replace it with sheet V2_042(R-1) attached to this Addendum No. 9. The requirements for IPE deck hardware have been updated.
20. Sheet V2_052(R-2)
Delete Sheet V2_052(R-2) in its entirety and replace it with sheet V2_052(R-3) attached to this Addendum No. 9. The requirements for IPE deck hardware have been updated.
21. Sheet V2_053(R-1)
Delete Sheet V2_053(R-1) in its entirety and replace it with sheet V2_053(R-2) attached to this Addendum No. 9. The requirements for IPE deck hardware have been updated.
22. Sheet V2_055(R-1)
Delete Sheet V2_055(R-1) in its entirety and replace it with sheet V2_055(R-2) attached to this Addendum No. 9. The requirements for IPE deck hardware have been updated.
23. Sheet V2_057(R-1)
Delete Sheet V2_057(R-1) in its entirety and replace it with sheet V2_057(R-2) attached to this Addendum No. 9. The requirements for IPE deck hardware have been updated.
24. Sheet V2_059(R-2)
Delete Sheet V2_059(R-2) in its entirety and replace it with sheet V2_059(R-3) attached to this Addendum No. 9. The requirements for IPE deck hardware have been updated.
25. Sheet V2_060
Delete Sheet V2_060 in its entirety and replace it with sheet V2_060(R-1) attached to this Addendum No. 9. The requirements for IPE deck hardware have been updated.
26. Sheet V2_061(R-1)
Delete Sheet V2_061(R-1) in its entirety and replace it with sheet V2_061(R-2) attached to this Addendum No. 9. The requirements for IPE deck hardware have been updated.
27. Sheet V2_062
Delete Sheet V2_062 in its entirety and replace it with sheet V2_062(R-1) attached to this Addendum No. 9. The requirements for IPE deck hardware have been updated.
28. Sheet V2_063
Delete Sheet V2_063 in its entirety and replace it with sheet V2_063(R-1) attached to this Addendum No. 9. The requirements for IPE deck hardware have been updated.
29. Sheet V2_064(R-2)
Delete Sheet V2_064(R-2) in its entirety and replace it with sheet V2_064(R-3) attached to this Addendum No. 9. The requirements for IPE deck hardware have been updated.
30. Sheet V2_065(R-2)
Delete Sheet V2_065(R-2) in its entirety and replace it with sheet V2_065(R-3) attached to this Addendum No. 9. The requirements for IPE deck hardware have been updated.

31. Sheet V2_066(R-1)
Delete Sheet V2_066(R-1) in its entirety and replace it with sheet V2_066(R-2) attached to this Addendum No. 9. The requirements for IPE deck hardware have been updated. The callout for masonry veneer has been revised.
32. Sheet V2_067(R-2)
Delete Sheet V2_067(R-2) in its entirety and replace it with sheet V2_067(R-3) attached to this Addendum No. 9. The requirements for IPE deck hardware have been updated.
33. Sheet V2_068(R-2)
Delete Sheet V2_068(R-2) in its entirety and replace it with sheet V2_068(R-3) attached to this Addendum No. 9. The requirements for IPE deck hardware have been updated.
34. Sheet V2_068A(R-1)
Delete Sheet V2_068A(R-1) in its entirety and replace it with sheet V2_068A(R-2) attached to this Addendum No. 9. A detail and notes for the new granite cap at columns have been added. The requirements for IPE deck hardware have been updated.
35. Sheet V2_093(R-1)
Delete Sheet V2_093(R-1) in its entirety and replace it with sheet V2_093(R-2) attached to this Addendum No. 9. A section line has been added.
36. Sheet V2_113(R-2)
Delete Sheet V2_113(R-2) in its entirety and replace it with sheet V2_113(R-3) attached to this Addendum No. 9. The approach slab has been dimensioned.
37. Sheet V2_154(R-2)
Delete Sheet V2_154(R-2) in its entirety and replace it with sheet V2_154(R-3) attached to this Addendum No. 9. Lighting fixtures PLVN and PLNS and associated conduit have been removed from the Contract. Pier lighting notes have been revised.
38. Sheet V2_155(R-1)
Delete Sheet V2_155(R-1) in its entirety and replace it with sheet V2_155(R-2) attached to this Addendum No. 9. Lighting fixtures PLVN and PLNS and associated conduit have been removed from the Contract. Pier lighting notes have been revised.
39. Sheet V2_160(R-1)
Delete Sheet V2_160(R-1) in its entirety and replace it with sheet V2_160(R-2) attached to this Addendum No. 9. Notes for bollard concrete bases have been revised.
40. Sheet V2_162(R-1)
Delete Sheet V2_162(R-1) in its entirety and replace it with sheet V2_162(R-2) attached to this Addendum No. 9. The description for the Type B fixture has been revised.



RI Department of Transportation
Chief Engineer Administrator

Revised: 2/19/2002

Total or gross sum of bid for Rhode Island Contract Number: 2016-CB-038

Federal-Aid Project Number(s): REV 1950(001)

WRITTEN IN WORDS:

The undersigned bidder declares that this Proposal is made without connection with any other person or persons making proposals for the same work, and is in all respects fair and without collusion or fraud. The undersigned bidder submits herewith, a proposal guarantee in the form of a bid bond in favor of the State of Rhode Island in the amount of 5% of the total or gross sum of the bid and agrees and consents that the proposal guarantee shall be forfeited to the State as liquidated damages if the required contract agreement and contract bond are not executed within ten(10) days of the notice of award. All surety companies must be listed with The Department of the Treasury, Fiscal Services, Circular 570, (Latest Revision published by The Federal Register). The State reserves the right to retain the surety of all bidders until the successful bidder enters into the Contract or until such time as the award or cancellation of the Contract is announced at which point Sureties will be returned to all bidders by the State of Rhode Island, Office of Purchases. The undersigned bidder further agrees, if awarded the contract on this proposal, to begin work within ten (10) calendar days after the date of execution of the contract unless otherwise specified under special provisions or permitted by the Engineer, and further agrees to complete the work on or before the dates outlined in the Contract Documents.

COMPLETION DATE(S)

DESCRIPTION	DATE
Substantial Completion Date	August 17, 2018
Bid-Opening Date	July 15, 2016
Pre-Bid Date	June 7, 2016
Advertise Date	May 26, 2016

THE BIDDER ACKNOWLEDGES RECEIPT OF THE FOLLOWING:

ADDENDA	DATE POSTED	DOCUMENT(S)	PAGE
NO.1	June 1, 2016	1. Status Certification for: Debarment, Eligibility, Indictments, Convictions or Civil Judgements	1
NO.2	June 3, 2016	2. Anti-Collusion Certificate	2
NO.3	June 7, 2016	4. DBE Affirmative Action Certification	3 - 9
NO.4	June 15, 2016	3. Disclosure of Lobbying Activities	
NO.5	June 15, 2016		
NO.6	June 24, 2016		
NO.7	June 28, 2016		
NO.8	July 7, 2016		
NO.9	July 11, 2016		

Total or gross sum of bid for Rhode Island Contract Number: 2016-CB-038

Federal-Aid Project Number(s): REV 1950(001)

Whoever, being an officer, agent, or employee of the United States, or of any State, or Territory, or whoever, whether a person, association, firm, or corporation, knowingly makes any false statement, false representation, or false report as to the character, quality, quantity, or cost of the material used or to be used, or the quantity or quality of the work performed or to be performed, or the costs thereof in connection with the submission of plans, maps, specifications, contracts, or costs of construction of any highway or related project submitted for approval to the Secretary of Transportation; or Whoever, knowingly makes any false statement, false representation, false report, or false claim with respect to the character, quality, quantity, or cost of any work performed or to be performed, or materials furnished or to be furnished, in connection with the construction of any highway or related project approved by the Secretary of Transportation; or Whoever, knowingly makes any false statement or false representation as to a material fact in any statement, certificate, or report submitted pursuant to the provisions of the Federal-aid Road Act approved July 11, 1916 (39 Stat. 355), as amended and supplemented, Shall be fined not more than \$10,000 or imprisoned not more than five years, or both. By signing here the signee agrees that the disk submitted is the same as the paper submitted and that any discrepancies may result in disqualification of the bid.

BEING EITHER A (INDIVIDUAL, PARTNERSHIP,
(OR CORPORATION INCORPORATED)
(UNDER THE LAWS OF ANY STATE)
(IN THE UNITED STATES OF AMERICA)

Contractor

COMPOSED OF OFFICERS, PARTNERS
OR OWNER, AS FOLLOWS.

President

Vice-President

Secretary

Treasurer

Address

CERTIFICATION SUMMARY: I hereby certify that I have read all of the above requirements and understand that it affects the acceptability of my bid(s).

Name of Signatore - Title

Date

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819.9901	Drill and Set Concrete Adhesive Anchors	JS-127
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824.9912	Architectural Stainless Steel Bent Closure Plate	
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824.9906	AASHTO M270 Grade 50 Steel Furnish Fabricate & Erect Built-Up Curved (Large Radius)	
824.9907	AASHTO M270 Grade 50S Rolled Steel Furnish Fabricate & Erect	
824.9903	Furnish Fabricate & Erect Architectural Exposed Structural Steel Construction (AESS)	JS-139
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834.9920	New Granite Cap at Existing Columns	JS-289

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JOB SPECIFIC

CODE 806.9901
IPE WOOD DECK, UPPER DECK

CODE 806.9902
IPE WOOD DECK, TERRACE

CODE 806.9903
IPE WOOD DECK, LOWER DECK, TYPE A

CODE 806.9914
IPE WOOD DECK, LOWER DECK, TYPE B

CODE 806.9905
IPE EDGE BOARD, UPPER DECK

CODE 806.9906
IPE EDGE BOARD, LOWER DECK

CODE 806.9907
IPE EDGE BOARD, TERRACE

CODE 806.9910
IPE WOOD DECK, BOARDWALK

CODE 806.9911
IPE EDGE BOARD, BOARDWALK

DESCRIPTION:

Work under this item shall consist of, all work associated with the furnishing, fabricating, storing, handling, hauling, cutting/scribing to length/shape and installing the **Ipe Wood** in accordance with Section 806 of the Rhode Island Department of Transportation Standard Specifications, the Contract Plans and this special provision, or as directed by the Engineer. The Contractor shall subcontract these items such that they are furnished, fabricated, and installed by or installation that is directly supervised on-site by, one of the three prequalified firms as specified in item code 105.9999.

MATERIALS:

Materials for Ipe Wood shall conform to both the applicable provisions of SECTION M.11; TIMBER, of the Rhode Island Department of Transportation Standard Specifications and the following additional requirements;

The Contractor shall use the following wood species for all wood components associated with the Ipe Wood Deck and Ipe Edge Board identified as "**Ipe Wood**" in this special provision.

Ipe Wood

Botanical Name: *Tabebuia* spp. (Lapacho group)

Janka Hardness of 3,680 lb_f

Bending strength is 23,360 psi

Shrinkage: Radial: 5.9%, Tangential: 7.2%, Volumetric: 12.4%, T/R Ratio: 1.2

Class A fire rating

Moisture Content:

1x6, 5/4x6, 5/4x10, 5/4x12 & 2x8: to be kiln dried to 14% +/- 2%

3x6, 3x10 & 3x12: to be locally acclimated allowing the material to naturally achieve the local EMC (Equilibrium Moisture Content). The contractor shall allow wood to acclimate locally for a minimum period of 14 weeks prior to fabrication and/or installation. The Contractor shall adhere to the manufacturer's guidelines on Acclimation and provide Bills of lading and approved shipping invoices to document length in storage. The contractor shall refer to the United States Department of Agriculture (USDA) Forest Service Research Publication FPL-RN-0268 "Equilibrium Moisture Content of Wood in Outdoor Locations in the United States and Worldwide" for acceptable EMC values for Providence, RI.

Supplier shall pre-treat all surfaces of wood decking with VOC compliant Penetrating UV Protection Oil Finish as manufactured by Penofin prior to delivery to Contractor.

Manufacturer: Minimum 5 years' experience producing similar products.

Supplier to provide Contractor with Chain of Custody documentation for wood including required compliance with Lacey Act provisions.

Provide a manufacturer's standard 25 year warranty. The terms of the warranty shall state that the application of Ipe decking installed per supplier and fastener manufacturer recommendations is guaranteed to resist rot and insect damage for 25 years from the original installation date.

All Pressure-Treated Sleepers shall be treated Southern Pine #2 or better, with the following minimum tabulated values:

$$F_{bo} = 1500 \text{ psi}$$
$$E = 1,600,000 \text{ psi.}$$

See the plans for lengths.

All Stainless Steel for drain clean-out plates shall be austenitic UNS S31603 (316L).

Stainless Steel shall be treated with a medium grade, anti-slip surface coating, UL slip-resistant certified, with the following minimum tabulated values:

Surface Hardness	HRB 90 (Rockwell 'B' Scale)
Bond Strength to steel	7,300 psi
Coefficient of Friction	0.6

Slip resistant material shall be applied to stainless steel as a thermal spray coating (metalizing). The Slip Resistant Material shall be a high purity nickel chrome wire (Ni 20Cr).

The Slip Resistant application must conform to the following;

Static Coefficient Of Friction (COF) using the ASTM C-1028 method and device, both wet and dry, are above 0.05.

Slip Resistance Factor using the ASTM F-1679 method and device, both wet and dry, are above 0.50.

Dynamic Coefficient Of Friction (COF) using the ASTM E-303 method and device, both wet and dry, are above 0.50.

Surface Preparation:

The steel surface shall be clean and free of oxides (rust), dirt, oils or grease before metalizing. The surface shall be grit blasted to SSPC Surface Preparation Specification 10. The grit blast medium shall be 24 mesh aluminum oxide. The piece shall be metalized within 6 hours of blasting. Oils and grease shall be removed by use of an aqueous alkaline solution and/or hand or power tool cleaning.

Anti-Slip Coat Application:

The metalizing applicator shall be capable of providing 200 amp spray arc and 60 psi compressed air, a deposit rate of 11 lbs/hr/100A and a deposit efficiency of 70%. Typical wire Coverage shall be 0.8 oz/sq.ft/mil

All Stainless Steel Sheet, Strip and Plates shall conform to ASTM A240/A240M and ASTM A480/A480M with a Sulphur content not to exceed 0.005%. Stainless Steel Sheet and Plates shall be Stretcher Leveled Standard of Flatness in accordance with ASTM 480/480M Table A2.8. Contractor to provide copies of certification showing compliance.

Stainless Steel Fasteners shall conform to Group 2 ASTM F593G or F593H (condition CW1 or CW2) or A1082/A1082M UNS S32101, S32304 or S32205.

All Slip-Resistant Stainless Steel Plates shall have a diamond (tread/checkered pattern) on the travel surface. Slip-Resistant pattern shall be in general conformance with the geometric requirements of ASTM A 793.

The following **Ipe Wood** types are to be provided as described below;

A. Ipe Wood Deck, Upper Deck – Item Code 806.9901

A typical **Ipe Wood Deck, Upper Deck** shall consist of the following materials;

- (1) 3x6 Ipe Decking – Actual Size 2 ½" x 5 ½". Length specified on plans and shaped in the 3D Digital Model. Each length of decking material in a single bay shall be a single piece of wood.
- (2) 3x12 Ipe Decking – Actual Size 2 ½" x 11 ¼". Length specified on plans and in 3D Digital Model. Each length of decking material in a single bay shall be a single piece of wood.
- (3) #14 x 4" Stainless Steel Flat Head Ejector Screws – as manufactured by Muro North America Inc.
- (4) 2x6 Pressure-Treated Sleeper – Actual Size 1 ½" x 5 ½". Length varies.
- (5) Stainless Steel Powder-Actuated Nail, Shank Dimension 0.157", Length 2 1/8"
- (6) Flush Mounted Floor Box (Item Code T05.9901)
- (7) End Sealer – AnchorSeal as manufactured by UC Coatings or approved equal.
- (8) Electrical Vault Fencing Enclosure
 - a. Wire Mesh, Square Weave, Stainless Steel Type 316, Woven Construction, 2"x2" Mesh, 0.0630" Wire, .437" Opening.
 - b. 2" x 2" x 3/16" Clip Angle with Thermal Sprayed Zinc Coating per Section 827 and Painted per section 825.
 - c. 316 Stainless steel expansion anchor with 2" stainless steel fender washer
 - d. Tamper-proof stainless steel nut and washer assembly
- (9) Electrical Vault Access Hatch
 - a. 3"x3" Heavy Duty, 316 Stainless Steel Flush Lift Ring with four (4) #8 counter-sunk screws.
 - b. Hinge, 4 ½" x 4 ½" Extra Heavy Duty, Non-Removable Pins
 - c. Stainless Steel, Compression Latch with Key-Operated Head and Large Size-Flush Design body style.
 - d. 3 ½" x 3 ½" x 5/16" Steel Angle Frame with Thermal Sprayed Zinc Coating per Section 827 and Painted per section 825.

B. Ipe Wood Deck, Terrace – Item Code 806.9902

A typical **Ipe Wood Deck, Terrace** shall consist of the following materials;

- (1) 5/4x6 Ipe Decking – Actual Size 1" x 5 1/2". Length specified on plans and shaped in the 3D Digital Model. Each length of decking material in a single bay of terrace shall be a single piece of wood.
- (2) #10 x 2 1/2" Stainless Steel Flat Head Ejector Screws – as manufactured by Muro North America Inc.
- (3) 2x6 Pressure-Treated Sleeper – Actual Size 1 1/2" x 5 1/2". Length varies.
- (4) Tapered Flathead Stainless Steel Concrete and Masonry Screw, 2 3/4" long, Shank Dimension 0.170"
- (5) End Sealer – AnchorSeal as manufactured by UC Coatings or approved equal.
- (6) 14" x 5 1/2" x 1/4" Stainless Steel Drain Clean-Out Plate with Tamperproof Countersunk Stainless Steel screws at locations noted on plans.
- (7) Anti-Slip Surface Covering on Stainless Steel Plate

C. Ipe Wood Deck, Lower Deck, Type A – Item Code 806.9903

A typical **Ipe Wood Deck, Lower Deck** shall consist of the following materials;

- (1) 5/4x6 Ipe Decking – Actual Size 1" x 5 1/2". Length specified on plans and shaped in the 3D Digital Model. Each length of decking material in a single structural bay shall be a single piece of wood.
- (2) #10 x 2 1/2" Stainless Steel Flat Head Ejector Screws – as manufactured by Muro North America Inc.
- (3) 2x6 Pressure-Treated Sleeper – Actual Size 1 1/2" x 5 1/2". Length varies.
- (4) Tapered Flathead Stainless Steel Concrete and Masonry Screw, 2 3/4" long, Shank Dimension 0.170"
- (5) Polyvinyl Chloride shims plates. Various sizes. Minimum compressive strength of 8,000 psi.
- (6) End Sealer – AnchorSeal as manufactured by UC Coatings or approved equal.
- (7) 14" x 5 1/2" x 1/4" Stainless Steel Drain Clean-Out Plate with Tamperproof Countersunk Stainless Steel screws at locations noted on plans.
- (8) Anti-Slip Surface Covering on Stainless Steel Plate.

D. Ipe Wood Deck, Lower Deck, Type B – Item Code 806.9914

A typical **Ipe Wood Deck, Lower Deck** shall consist of the following materials;

- (1) 5/4x3 Ipe Decking – Actual Size 1" x 2 3/4". Length specified on plans and shaped in the 3D Digital Model. Each length of decking material in a single bay shall be a single piece of wood.
- (2) #10 x 2 1/2" Stainless Steel Flat Head Ejector Screws – as manufactured by Muro North America Inc.
- (3) 2x6 Pressure-Treated Sleeper – Actual Size 1 1/2" x 5 1/2". Length varies.
- (4) Tapered Flathead Stainless Steel Concrete and Masonry Screw, 2 3/4" long, Shank Dimension 0.170"
- (5) Polyvinyl Chloride shims plates. Various sizes. Minimum compressive strength of 8,000 psi.
- (6) End Sealer – AnchorSeal as manufactured by UC Coatings or approved equal.
- (7) 14" x 5 1/2" x 1/4" Stainless Steel Drain Clean-Out Plate with Tamperproof Countersunk Stainless Steel screws at locations noted on plans.

- (8) Anti-Slip Surface Covering on Stainless Steel Plate.

E. Ipe Edge Board, Upper Deck – Item Code 806.9905

A typical **Ipe Edge Board, Upper Deck** shall consist of the following materials;

- (1) 3x12 Ipe Timber – Actual Size 2 ½” x 11 ¼”. Exposed outer edge shall be chamfered at 78.8 degrees per plans. Length specified on plans and shaped in the 3D Digital Model. Each length of Edge Board shall be a single piece of wood.
- (2) #14 x 4” Stainless Steel Flat Head Ejector Screws – as manufactured by Muro North America Inc.
End Sealer – AnchorSeal as manufactured by UC Coatings or approved equal.

F. Ipe Edge Board, Lower Deck – Item Code 806.9906

A typical **Ipe Edge Board, Lower Deck** shall consist of the following materials;

- (1) 5/4x10 Ipe Board – Actual Size 1” x 9 ¼”. Exposed outer edge shall be chamfered inwards at 77 degrees. Length specified on plans and shaped in the 3D Digital Model. Each length of Edge Board shall be a single piece of wood. Refer to plans and 3D Digital Model for fabrication of curved Ipe Edge Board, Lower Deck.
- (2) #10 x 2 ½” Stainless Steel Flat Head Ejector Screws – as manufactured by Muro North America Inc
- (3) 5/4x6 Ipe Blocking – Actual Size 1” x 5 ½”. Exposed outer edge shall be chamfered at 77 degrees per plans.
- (4) Tapered Flathead Stainless Steel Concrete and Masonry Screw, 2 ¾” long, Shank Dimension 0.170”
- (5) Stainless Steel Powder-Actuated Nail, Shank Dimension 0.157”, Length 2 1/8”
- (6) End Sealer – AnchorSeal as manufactured by UC Coatings or approved equal.

G. Ipe Edge Board, Terrace – Item Code 806.9907

A typical **Ipe Edge Board, Terrace** shall consist of the following materials;

- (1) 2x8 Ipe Lumber – Actual Size 1 ½” x 7 ¼”. Exposed outer edge shall be chamfered inwards per plans. Length specified on plans and shaped in the 3D Digital Model. Each length of Edge Board shall be a single piece of wood. Refer to plans and 3D Digital Model for fabrication of curved Ipe Edge Board, Terrace.
- (2) #10 x 3” Stainless Steel Flat Head Ejector Screws – as manufactured by Muro North America Inc.
- (3) 2x6 Pressure-Treated Sleeper – Actual Size 1 ½” x 5 ½”. Length varies
- (4) Tapered Flathead Stainless Steel Concrete and Masonry Screw, 2 ¾” long, Shank Dimension 0.170”
- (5) 1”x1”x1/8” stainless steel angle
- (6) #10 x 3/8” self-tapping stainless steel flat head screw
- (7) Luminaire Type LR – with Drivers (Item Code T07.9906) per Electrical Plans.
- (8) End Sealer – AnchorSeal as manufactured by UC Coatings or approved equal.

H. 806.9910 Ipe Wood Deck, Boardwalk

A typical **Ipe Wood Deck, Boardwalk** shall consist of the following materials;

- (1) 5/4 x 6 Ipe Decking – Actual Size 1" x 5 ½". Minimum Length 8 feet.
- (2) #10 x 2" Stainless Steel Flat Head Ejector Screws – as manufactured by Muro North America Inc.
- (3) End Sealer – AnchorSeal as manufactured by UC Coatings or approved equal.

I. 806.9911 Ipe Edge Board, Boardwalk

A typical **Ipe Edge Board, Boardwalk** shall consist of the following materials;

- (1) Two(2) - 5/4 x12 Ipe Edge Board side by side – Actual Size 1" x 11¼". Length and edge cut varies per the plans. Note both boards are measured as one unit.
- (2) #10 x 2" Stainless Steel Flat Head Ejector Screws – as manufactured by Muro North America Inc.
- (3) End Sealer – AnchorSeal as manufactured by UC Coatings or approved equal.

Submittals

The Contractor shall provide samples and submit shop drawings as identified below;

A. Samples:

1. Ipe Wood: Submit samples for size, color and texture required. Minimum length for each sample shall be 12". Samples should be pretreated with VOC compliant Penetrating UV Protection Oil Finish as manufactured by Penofin.
2. Shims: Submit samples for sizes required and manufacturer data.
3. Fasteners: Submit 2 samples and manufacturer data sheets for each fastener type required.
4. Stainless Steel Plate with Anti-Slip Surface Covering - minimum 5 ½" x 14" x ¼". Provide two countersunk holes for fastener installation.
5. Fasteners: Submit samples and manufacturer data sheets for tamper-proof Stainless Steel Fasteners for Stainless Steel Plate.
6. Wire Mesh: Submit 12"x12" sample for size and finish required.
7. Lift Ring: Submit a sample for size and finish required.
8. Hinge: sample for size and finish required.
9. Compression Latch; sample for size, style and finish required.

B. Shop Drawings:

Submit shop drawing for Ipe Wood identifying all components required. Shop drawings shall include plan drawings showing layout of all Ipe Wood Deck areas and detail drawings showing how the various components fit together. Include manufacturer's literature completely describing all components of this special provision and giving detailed installation recommendations and instructions. Also include detailed installation drawings for all Ipe Wood Deck and Ipe Wood, Steps. The Contractor may reference the 3D Digital Model of the pedestrian bridge released with the contract documents for this project. **The 3D Digital Model is to be used for reference only.**

CONSTRUCTION METHODS:

The Construction Methods of the Ipe Wood shall be accordance with Section 806 of the Rhode Island Department of Transportation Standard Specifications and as supplemented or modified herein.

Prior to start of installation, inspect existing conditions to ensure surfaces are suitable for installation of decking. Starting work indicates Contractor's acceptance of existing conditions. Contractor shall follow manufacturer's recommendations for proper acclimation of wood prior to installation.

All lumber used in fabrication of sleepers shall be pressure treated with wood preservative in accordance with the requirements of AASHTO M133 and AWPA Standard C14.

To the extent possible, all sleeper wood shall be cut, drilled and completely fabricated prior to pressure treatment with preservatives. When field fabrication of wood is required or if wood is damaged, all cuts, bore holes, and damage shall be immediately field treated with 3 brush coats of hot preservative oil.

In addition to the requirements of RI Standard Specifications, Section 806, the following shall apply.

- A. Install in accordance with manufacturer's instructions including the following:
 - 1. Install materials plumb, true to line, cut and fitted.
 - 2. Scribe and cope as required for accurate fit to adjacent construction.
 - 3. Fasten tight to supports. Provide shims if there are variations in framing.
 - 4. Seal cut ends with AnchorSeal in accordance with manufacturer's instructions.
 - 5. For all pressure treated sleepers supply common and botanical names, results of ASTM D143 testing, and grading rules and certification of person performing the grading. All suppliers shall list at least three public installations of their product with references consisting of either the engineer or architect for the project. Supplier shall also provide certification from the country supplying the wood that their product is from a sustainable source.
- B. Protect Ipe Wood from damage during construction operations. Promptly repair any damaged surfaces. Remove and replace work which is not repaired to the satisfaction of the Engineer.
- C. Thoroughly clean, sweep and collect debris prior to rinsing with water prior to final acceptance. Debris laden water shall not be allowed to discharge into the River Provide a final coat of VOC compliant Penetrating UV Protection Oil Finish as manufactured by Penofin to exposed surface area only.
- D. Handling of Pressure-Treated Sleepers

Timber shall be kept out of direct sunlight until ready to be installed and finished. A tarp will suffice.
- E. Cutting and Machining of Pressure-Treated Sleepers

Sleepers shall be cut and machined with carbide tipped cutters. Due to its high density, a slower feed rate is recommended when machining these woods. After cross-cutting, exposed ends should be sealed with a clear paraffin wax based end sealer (such as "Anchorseal" by UC Coatings) applied with a foam brush. Individuals who may be sensitive to certain species should wear protective clothing, respiratory masks or goggles to limit exposure.
- F. Fasteners for Pressure-Treated Sleepers

All connections shall be constructed in accordance with the details on the plans and in

accordance with RI Standard Specification Section 806.

A. Ipe Wood Deck, Upper Deck

A typical **Ipe Wood Deck, Upper Deck** shall be installed as follows;

- (1) Maintain gap per recommended installation guidelines between adjacent decking boards.
- (2) Secure Ipe Wood Deck to sleepers with countersunk 4" x #14 Stainless Steel Ejector Screws. Provide 4 screws at mid-span locations and 2 screws at end conditions. Screw head shall be countersunk below surface of finish deck per manufacturer recommended installation guidelines.
- (3) Secure Sleeper to structural steel cross-framing with 2 rows of Stainless Steel Powder-Actuated Nails at 16" on center. ½" minimum embedment into steel.
- (4) Install Flush Mounted Floor Boxes (Item Code T05.9901) at locations noted on the plans. Floor box to be secured to miscellaneous steel angle framing and mounted flush with adjacent wood decking. Coordinate locations with Architectural and Electrical plans.
- (5) Install Electrical Vault Access Hatch at locations noted on the plans. Access Hatch to be secured over steel angle frame and include two (2) compression latches, two (2) flush lift rings and four (4) extra-heavy duty hinges.
- (6) Install Electrical Vault Fencing Enclosure at locations noted on plans. Provide continuous 2"x2" wire mesh between top of CMU wall and underside of Ipe Wood Deck at interior perimeter of Electrical Vault. Secure with expansion anchors and fender washers at CMU wall and secure to clip angles with tamper-proof bolted nut & washer assembly at top of steel and underside of Ipe Wood Deck.

B. Ipe Wood Deck, Terrace

A typical **Ipe Wood Deck, Terrace** shall be installed as follows;

- (1) Maintain gap per recommended installation guidelines between adjacent Decking Boards.
- (2) Secure Ipe Wood Deck to sleepers with countersunk 2 ½" x #10 Stainless Steel Ejector Screws. Provide 2 screws at sleeper locations.
- (3) Predrill and secure Sleeper to concrete slab with 2 rows of Tapered Flathead Stainless Steel Concrete and Masonry Screw at 16" on center. 1" minimum embedment into concrete.
- (4) Concrete slab shall be clean and debris free prior to installing deck.
- (5) Install stainless steel clean-out plate with anti-slip coating and tamper-proof screws at locations above drains below deck as indicated on the plans.

C. Ipe Wood Deck, Lower Deck, Type A

A typical **Ipe Wood Deck, Lower Deck** shall be installed as follows;

- (1) Maintain gap per recommended installation guidelines between adjacent decking boards.
- (2) Secure Ipe Wood Deck to sleepers with countersunk 2 ½" x #10 Stainless Steel Ejector Screws. Provide 2 screws at sleeper locations. Screw head shall be countersunk below surface of finish deck per manufacturer recommended installation guidelines.
- (3) Predrill and secure Sleeper to concrete slab with 2 rows of Tapered Flathead Stainless Steel Concrete and Masonry Screw at 16" on center. 1" minimum embedment into concrete.
- (4) Install plastic shim plates – size and location per plans.

- (5) Concrete slab shall be clean and debris free prior to installing deck
- (6) Install stainless steel clean-out plate with anti-slip coating and tamper-proof screws at locations above drains below deck as indicated on the plans.

D. Ipe Wood Deck, Lower Deck, Type B

A typical **Ipe Wood Deck, Lower Deck** shall be installed as follows;

- (1) Maintain gap per recommended installation guidelines between adjacent decking boards.
- (2) Secure to sleepers with countersunk 2 ½" x #10 Stainless Steel Ejector Screws. Provide 2 screws at sleeper locations. Screw head shall be countersunk below surface of finish deck per manufacturer recommended installation guidelines.
- (3) Predrill and secure Sleeper to concrete slab with 2 rows of Tapered Flathead Stainless Steel Concrete and Masonry Screw at 16" on center. 1" minimum embedment into concrete.
- (4) Install plastic shim plates – size and location per plans.
- (5) Concrete slab shall be clean and debris free prior to installing deck
- (6) Install stainless steel clean-out plate with anti-slip coating and tamper-proof screws at locations above drains below deck as indicated on the plans.

E. Ipe Edge Board, Upper Deck

A typical **Ipe Edge Board, Upper Deck** shall be installed as follows;

- (1) Provide a 5/8" gap between adjacent edge boards at Vertical Support A.1 locations of "Architectural Railing, Type A, Upper Deck w/LED".. Provide 1 ¼" x 1 ¼" notch in boards at electrical chase locations in Vertical Support A.2 of "Architectural Railing, Type A, Upper Deck w/LED".
- (2) Secure Edge Board, Upper Deck to continuous support angle with stainless steel self-tapping countersunk wood-to-steel screws. Provide 4 screws per Ipe Edge Board, Upper Deck, spaced per plans. Screw head shall be countersunk below surface of finish deck per manufacturer recommended installation guidelines.
- (3) Notch Edge Board, Upper Deck at base plate bolted connections to achieve a level surface alignment.

F. Ipe Edge Board, Lower Deck

A typical **Ipe Edge Board, Lower Deck** shall be installed as follows;

- (1) Provide a ¾" gap between adjacent edge boards at Vertical Support B.1 locations of "Architectural Railing, Type B, Lower Deck w/LED". Provide 1 ¼" x 1 ¼" notch in boards at electrical chase locations in Vertical Support B.2 of "Architectural Railing, Type B, Lower Deck w/LED".
- (2) Secure Edge Board to continuous 2x8 Ipe Blocking with 2 ½" x #10 Stainless Steel Flat Head Ejector Screws. Screw head shall be countersunk below surface of finish deck per manufacturer recommended installation guidelines.
- (3) Predrill and secure Ipe Blocking to concrete slab with 2 rows of Tapered Flathead Stainless Steel Concrete and Masonry Screw at 16" on center. 1" minimum embedment into concrete. Secure Ipe Blocking to structural steel with 2 rows of Stainless Steel Powder-Actuated Nails at 16" on center. ½" minimum embedment into steel.

G. Ipe Edge Board, Terrace

A typical **Ipe Edge Board, Terrace** shall be installed as follows;

- (1) Maintain gap per recommended installation guidelines between adjacent edge boards.
- (2) Secure edge board to sleepers with countersunk #10 x 3" Stainless Steel Flat Head Ejector Screws. Provide screws at 16" on center. Screw head shall be countersunk below surface of finish deck per manufacturer recommended installation guidelines.
- (3) Predrill and secure Ipe edge blocking to concrete slab with 2 rows of Tapered Flathead Stainless Steel Concrete and Masonry Screw at 16" on center. 1" minimum embedment into concrete.
- (4) Secure stainless steel angled in routed notch of edge board per plans with #10 x 3/8" self-tapping stainless steel flat head screws at 16" o.c.
- (5) Install Luminaire Type TR LED light fixture per Electrical Plans.

H. Ipe Wood Deck, Boardwalk

A typical **Ipe Wood Deck, Boardwalk** shall be installed as follows;

- (1) Maintain gap per recommended installation guidelines between adjacent decking boards.
- (2) Secure to each stringer with countersunk 2 1/2" x #10 Stainless Steel Ejector Screws. Screw head shall be countersunk below surface of finish deck per manufacturer recommended installation guidelines.

I. 806.9911 Ipe Edge Board, Boardwalk

A typical **Ipe Edge Board, Boardwalk** shall be installed as follows;

- (1) Cut, shape edge boards to fit outside radius as indicated on plans.
- (2) Maintain gap per recommended installation guidelines between adjacent decking boards.
- (2) Secure to each stringer with countersunk 2 1/2" x #10 Stainless Steel Ejector Screws. Screw head shall be countersunk below surface of finish deck per manufacturer recommended installation guidelines.

METHOD OF MEASUREMENT:

Ipe Wood shall be measured by the square foot (SF) or linear foot (LF) as listed below and be placed in various parts of the completed structure in accordance with the Plans and/or as directed by the Engineer. Computation of quantity shall be based on the actual number of square feet (including gaps and joints), or linear feet (including gaps and joints) actually installed on the bridge, walkway, or boardwalk of the respective materials actually installed. Waste and trimmed material shall not be measured for payment.

Contract Item	Measurement Unit
806.9901 Ipe Wood Deck, Upper Deck.....	SF
806.9902 Ipe Wood Deck, Terrace	SF
806.9903 Ipe Wood Deck, Lower Deck, Type A	SF
806.9914 Ipe Wood Deck, Lower Deck, Type B	SF
806.9905 Ipe Edge Board, Upper Deck	LF
806.9906 Ipe Edge Board, Lower Deck	LF
806.9907 Ipe Edge Board, Terrace.....	LF
806.9910 Ipe Wood Deck, Boardwalk.....	SF

For 806.9911 Ipe Edge Board, Boardwalk – Both edge boards (2) shall be measured as one LF unit.

BASIS OF PAYMENT

Ipe Wood shall be paid for at the contract unit price as listed below. The price so-stated constitutes complete compensation for all labor, materials and equipment, including all installed Ipe Wood, Stainless Steel Fasteners, Stainless Steel Wire Mesh, Clip Angles, Stainless Steel Hinges, Stainless Steel Lift Rings, Stainless Steel Compression Latches, Steel Angle Frame, Stainless Steel Drain Access Plates with Anti-Slip coating, materials and construction of Electrical Access Hatch including wire mesh and steel frame (painted and metalized), sleepers, cutting, trimming, shaping, cleaning the deck, cleaning the concrete surfaces, Luminaires and drivers as well as all other incidentals and ancillary electrical hardware required to finish the work, complete and accepted by the Engineer. Waste and trimmed material shall not be considered for payment. Method of Measurement and Basis of Payment apply to SF and LF installed.

Contract Item	Payment Unit
806.9901 Ipe Wood Deck, Upper Deck.....	SF
806.9902 Ipe Wood Deck, Terrace	SF
806.9903 Ipe Wood Deck, Lower Deck, Type A	SF
806.9914 Ipe Wood Deck, Lower Deck, Type B	SF
806.9905 Ipe Edge Board, Upper Deck	LF
806.9906 Ipe Edge Board, Lower Deck	LF
806.9907 Ipe Edge Board, Terrace	LF
806.9910 Ipe Wood Deck, Boardwalk.....	SF
806.9911 Ipe Edge Board, Boardwalk	LF

END OF SECTION

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JOB SPECIFIC

**ITEM CODE 824.9902
ASTM A500 GRADE B TUBE SECTIONS FURNISH
FABRICATE & ERECT**

**ITEM CODE 824.9905
AASHTO M270 GRADE 50 STEEL FURNISH FABRICATE &
ERECT BUILT-UP SIMPLE SPANS**

**ITEM CODE 824.9906
AASHTO M270 GRADE 50 STEEL FURNISH FABRICATE & ERECT BUILT-
UP CURVED (LARGE RADIUS)**

**ITEM CODE 824.9907
AASHTO M270 GRADE 50S ROLLED STEEL
FURNISH FABRICATE & ERECT**

DESCRIPTION

The work covered under this item shall include furnishing, fabricating, and erecting all structural steel at the Providence River Pedestrian Bridge, and shall be in accordance with Section 824, of the Rhode Island Standard Specifications, modified as follows:

Section 824 of the Rhode Island Standard Specifications for Road and Bridge Construction is modified as follows:

Delete the first paragraph of Section 824.04.1 and replace with the following:

824.04 METHOD OF MEASUREMENT

824.04.1 General. All work under the following items shall be measured as a Lump Sum for the following respective items;

Item Code 824.9902 -ASTM A500 Grade B Tube Sections Furnish Fabricate & Erect

Item Code 824.9905 - AASHTO M270 Grade 50 Steel Furnish Fabricate & Erect Built-Up Simple Spans

Item Code 824.9906 - AASHTO M270 Grade 50 Steel Furnish Fabricate & Erect Built-Up Curved (Large Radius)

Item Code 824.9907 - AASHTO M270 Grade 50S Rolled Steel Furnish Fabricate & Erect

An estimate of weight computed on the same basis as in 824.04 of the RI Standard Specifications for the dimensions shown on the Contract Drawings appears on the Plans. The estimate of weight is approximate only and no guarantee is made that it is the correct weight to be furnished. No adjustment in the Contract Price will be made if the weight furnished is more or less than the estimated weight unless changes in the work are

ordered by the Engineer in writing. If such changes are ordered which vary the weight of the steel to be furnished, the Lump Sum price shall be adjusted by increasing or decreasing the payment based on a value per pound arrived at by dividing the Contract Lump Sum amount by the estimate of weight shown below.

Item Code 824.9907 includes rolled steel such as floor beams, diaphragms, and permanent braces.

824.04.2 Shear Connectors. “Welded Stud Shear Connectors” will be measured by the number of each such piece actually welded to steel flanges in accordance with the Plans and/or as directed by the Engineer.

824.05 BASIS OF PAYMENT

Delete the first paragraph of Section 824.05.1 and replace with the following:

824.05.1 Structural Steel; Furnish, Fabricate and Erect. All work performed under the following item codes shall be measured and paid for under the Lump Sum prices bid for each respective item as listed in the Proposal. The prices so-stated shall constitute full and complete compensation for all labor, materials, and equipment, including furnishing, fabricating, delivering, erecting, painting, metalizing, and all other incidentals required to finish the work, complete and accepted by the Engineer.

Item Code 824.9902 - ASTM A500 Grade B Tube Sections Furnish Fabricate & Erect
Estimated weight = 32,000 LBS

Item Code 824.9905 - AASHTO M270 Grade 50 Steel Furnish Fabricate & Erect
Built-Up Simple Spans
Estimated weight = 118,500 LBS

Item Code 824.9906 - AASHTO M270 Grade 50 Steel Furnish Fabricate & Erect
Built-Up Curved (Large Radius)
Estimated weight = 265,000 LBS

Item Code 824.9907 - AASHTO M270 Grade 50s Rolled Steel Furnish Fabricate & Erect
Estimated weight = 244,800 LBS

Steel for temporary uses including but not limited to temporary supports, bracing or shoring shall not be measured for or considered for payment.

824.05.2 Shear Connectors. The accepted quantity of “Welded Stud Shear Connectors” will be paid for at the Contract Unit Price per Each as listed in the Proposal. The price so-stated shall constitute full and complete compensation for all labor, materials, and equipment, and all other incidentals to finish the work, complete, in place and accepted by the Engineer.

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ITEM CODE T06.9901
¾" FIBERGLASS CONDUIT ON STRUCTURE

ITEM CODE T06.9902
¾" SCHEDULE 80 PVC CONDUIT WITHIN CONCRETE SLAB

ITEM CODE T06.9903
1 ½" SCHEDULE 80 PVC CONDUIT WITHIN CONCRETE SLAB

ITEM CODE T06.9904
1" FIBERGLASS CONDUIT ON STRUCTURE

ITEM CODE T06.9905
1 ½" FIBERGLASS CONDUIT ON STRUCTURE

ITEM CODE T06.9906
1" SCHEDULE 80 PVC CONDUIT WITHIN CONCRETE SLAB

DESCRIPTION:

The work under these items shall conform to the relevant provisions of Section T06 of the Standard Specifications and the following. The work shall include furnishing and installing all conduit runs of the following types, along with all associated fittings, couplings, and other components:

Item Code T06.9901: ¾" fiberglass conduit on structure
Item Code T06.9902: ¾" Schedule 80 PVC conduit within concrete slab
Item Code T06.9903: 1 ½" Schedule 80 PVC conduit within concrete slab
Item Code T06.9904: 1" fiberglass conduit on structure
Item Code T06.9905: 1 ½" fiberglass conduit on structure
Item Code T06.9906: 1" Schedule 80 PVC conduit within concrete slab

Work shall be in accordance with the Construction Drawings, the latest edition of the relevant specification sections of the Rhode Island Department of Transportation (RIDOT) Standard Specifications for Road and Bridge Construction, and all applicable compilations of approved specifications, and/or as directed by the Engineer.

MATERIALS:

Materials for rigid steel conduit and Schedule 80 PVC plastic conduit runs installed in structure or within concrete shall conform to the applicable provisions of SECTION T06 CONDUIT of the Rhode Island Department of Transportation Standard Specifications.

The items covered in this special provision are defined as follows:

Item Code T06.9901: ¾" rigid steel conduit on structure
Item Code T06.9902: ¾" fiberglass 80 PVC conduit within concrete slab
Item Code T06.9903: 1 ½" Schedule 80 PVC conduit within concrete slab
Item Code T06.9904: 1" fiberglass conduit on structure

Item Code T06.9905: 1 ½" fiberglass conduit on structure
Item Code T06.9906: 1" Schedule 80 PVC conduit within concrete slab

Contractor shall submit shop drawings for conduits, hardware and method of mounting to structure at the various locations and conditions.

CONSTRUCTION METHODS:

The Construction Methods of:

Item Code T06.9901: ¾" fiberglass conduit on structure
Item Code T06.9902: ¾" Schedule 80 PVC conduit within concrete slab
Item Code T06.9903: 1 ½" Schedule 80 PVC conduit within concrete slab
Item Code T06.9904: 1" fiberglass conduit on structure
Item Code T06.9905: 1 ½" fiberglass conduit on structure
Item Code T06.9906: 1" Schedule 80 PVC conduit within concrete slab

shall be in accordance with SECTION T06 CONDUIT of the Rhode Island Standard Specifications for Road and Bridge Construction.

METHOD OF MEASUREMENT:

The following conduit runs:

Item Code T06.9901: ¾" fiberglass conduit on structure
Item Code T06.9902: ¾" Schedule 80 PVC conduit within concrete slab
Item Code T06.9903: 1 ½" Schedule 80 PVC conduit within concrete slab
Item Code T06.9904: 1" fiberglass conduit on structure
Item Code T06.9905: 1 ½" fiberglass conduit on structure
Item Code T06.9906: 1" Schedule 80 PVC conduit within concrete slab

will be measured by the number of linear feet actually installed of the type or types indicated on the Plans and/or as directed by the Engineer, with no deduction for fittings and couplings.

BASIS OF PAYMENT:

The accepted quantities:

Item Code T06.9901: ¾" fiberglass conduit on structure
Item Code T06.9902: ¾" Schedule 80 PVC conduit within concrete slab
Item Code T06.9903: 1 ½" Schedule 80 PVC conduit within concrete slab
Item Code T06.9904: 1" fiberglass conduit on structure
Item Code T06.9905: 1 ½" fiberglass conduit on structure
Item Code T06.9906: 1" Schedule 80 PVC conduit within concrete slab

will be paid for at their respective contract unit prices per linear foot for the type or types as listed in the Proposal. The prices so-stated constitute full and complete compensation for all materials, equipment, tools, mounting hardware, and labor including all fittings, couplings, and expansion fittings, and all other incidentals necessary to satisfactorily finish the work, complete in place and accepted by the Engineer.

S:\PROJECTS\195FD\DESIGN\Contract 16\Addendum 9\CJL\T06 9901-9906 FIBERGLASS AND PVC CONDUIT Add 9 CDRM.docx

ITEM CODE 834.9920
NEW GRANITE CAP AT EXISTING COLUMNS

DESCRIPTION

The work under these items shall consist of the complete removal, disposal of the existing granite cap and concrete column stubs and furnishing, storing, handling, hauling and installing the New Granite Caps at the former bridge columns that are beyond the limits of the proposed pier construction. The work covered under these items shall be performed in accordance with Sections 803 and 807 of the Rhode Island Standard Specifications for Road and Bridge Construction with all applicable compilations of approved specifications except as supplemented by this Special Provision and as may be directed by the Engineer.

For the purposes of these Special Provisions, the portions of the existing granite cap and concrete column stubs to be removed and disposed of, and the New Granite Cap at Existing Columns to be furnished, stored, handled and installed are in general described as follows. All work is to be performed at the locations and to the limits shown on the Contract Drawings or as directed by the Engineer.

The portions of the granite cap on the piers shall be removed to the limits indicated on the Contract Drawings, including all attached and embedded components.

MATERIALS

Materials for removal and disposal of existing granite cap and concrete column stubs and furnishing, storing, handling, hauling and installing of the **New Granite Cap at Existing Columns** on the existing bridge piers shall conform to the applicable provisions of SECTION M.14 – STONE FOR MASONRY of the Rhode Island Department of Transportation Standard Specifications.

CONSTRUCTION METHODS:

The Contractor shall phase and/or perform this work in accordance with the provisions of the Contract Drawings, Construction Phasing Requirements, and Restrictions Noted in the CS Pages. The Contractor shall mark and coordinate the removal of portions of the existing granite cap in a manner that facilitates the installation of the New Granite Cap at Existing Columns in an alignment which matches the existing condition.

The Contractor shall ensure that the removal and disposal operations do not cause damage to portions of existing structures designated to remain, nor to any existing adjacent structures or properties.

The Contractor shall ensure that no debris or any other foreign material falls into the waterway or shoreline. Should any debris accidentally fall into the Providence River or shoreline, the debris shall be removed immediately and all work shall stop until such time as a revised operations procedure, which will prevent future incidents of falling debris, has been submitted and approved by the Engineer. Any delay caused as a result of such a cessation of work shall not relieve the Contractor of any of his responsibilities under this contract, including the timely completion of work.

All water used in demolition procedures, dust, debris, chips shall be contained, collected and legally disposed of.

Boundaries of the existing granite cap and concrete column stubs to be removed where indicated on the Contract Drawings or as directed by the Engineer, shall be saw cut square and the column stub removed to a minimum depth of 1" below the bottom surface of the existing granite cap setting bed. Care shall be taken during the removal of the designated portions of the granite cap to avoid damaging any portions that are to remain. All costs associated with the sawcutting described herein shall be considered as incidental to the removal work and as such shall be included in the bid price for the work.

Regardless of the method of removal, if in the opinion of the Engineer the removal operation causes excessive damage to those portions of any structure to remain or any unsafe condition, the Contractor shall cease operations until such time that an alternative solution has been proposed by the Contractor and approved by the Engineer. An Engineer-ordered "cease of operations" shall not result in claims for additional payment by the Contractor to the State, nor an extension of the project completion date.

All portions of the existing granite cap around the circumference of the columns and concrete column stubs shall be carefully removed in the areas shown in the Plans. The existing adjacent granite cap and wall cladding shall be protected from damage. If the granite is damaged to the extent that they cannot be reused, the Contractor shall provide additional granite cap material or granite blocks that are similar in size, shape, and color to the existing material.

The New Granite Cap at Existing Columns on the bridge piers shall match the color, finish, texture and thickness of the existing granite cap on the bridge piers. Special attention shall be paid to ensure that the reconstructed pier cap surface sits flush with the adjacent existing granite cap surface and joints align with the aesthetics of the existing pier construction. Per the plans, provide a 1" diameter, stainless steel anchor bolts with a minimum 1" embedment, epoxy grouted, into the underside of the New Granite Cap and a minimum 10" embedment, drilled, set and epoxy grouted into the existing bridge pier construction. The Contractor shall provide a minimum of two (2) anchors per New Granite Cap.

The mortar and grout for the New Granite Cap at Columns shall be proportioned as specified Subsections 807.02.3 and 807.02.7, respectively, of the Rhode Island Standard Specifications for Road and Bridge Construction. The mortar shall be machine mixed and shall be prepared in an approved mixer and shall be mixed not less than 3 minutes nor more than 10 minutes. Sufficient water shall be added to make the mortar of such consistency that it can be handled easily and spread with a trowel. Mortar and/or grout shall be mixed only in those quantities required for immediate use. Mortar not used within 45 minutes after water has been added or before initial set begins, whichever occurs first, shall be discarded. The mortar shall conform to ASTM C270 Cement, Lime Type S with Crystalline Admixture.

The New Granite Cap at Columns shall be set on a prepared setting bed. The bed shall be firm and normal to the top surface of the existing bridge pier, and approved by the Engineer before any Granite Cap is placed. The bearing surface of the existing bridge pier shall be cleaned thoroughly and in a saturated-surface dry condition. Each piece of New Granite Cap shall be cleaned and thoroughly saturated with water before being set and the bed which is to receive it shall be clean and well moistened. All Granite Caps shall be well bedded in freshly made mortar. The contractor shall install lead wool at all joints at a depth of 1". The mortar joints shall be full and the Granite Caps carefully settled in place before the mortar has set. No spalls will be permitted in the beds. No pinning up of stones with spalls will be permitted in beds. The New Granite Cap at Columns shall not be dropped upon, or slid over the wall, nor will hammering, rolling, or turning of the cap be allowed. In case any stone or adjacent cap is moved or the joint broken, the stone shall be taken up, the mortar thoroughly cleaned from bed and joints, and the stone or cap reset in fresh mortar.

Face joints for the New Granite Cap at Columns shall not exceed ½-inch. All joints shall be completely filled with mortar. All granite shall be thoroughly cleaned of mortar stains immediately after being laid and while the mortar is fresh. The New Granite Cap at Columns shall be kept clean until the work is completed. After the pointing is completed and the mortar set, the wall shall be thoroughly cleaned and left in a neat and workmanlike condition. The space between the existing cast-in-place concrete pier and the back of the existing granite veneer walls shall be filled with grout under pressure so that all voids are filled prior to setting the New Granite Cap at Columns.

All granite removal and installation shall be done in dry conditions. Contractor shall provide watertight forms to keep rebar, concrete and veneer construction dry at all times during all tide conditions. Contractor shall note that removal and disposal of portions of the existing granite cap and concrete column stubs and furnishing, storing, handling, hauling and installing the New Granite Cap at Existing Columns shall occur at elevations below high tide. The costs for providing watertight forms and keeping the work dry shall be incidental to the various pier construction items.

METHOD OF MEASUREMENT:

Item Code 834.9920: New Granite Cap at Existing Columns shall be measured for payment by the unit each for each concrete column stub and associated granite cap actually removed and disposed of and the furnishing, storing, handling, hauling and installing New Granite Cap at Existing Columns complete and accepted by the Engineer.

BASIS OF PAYMENT:

Item Code 834.9920: New Granite Cap at Existing Columns shall be paid for at the contract unit prices listed in the Proposal. The prices so stated shall constitute full and complete compensation for all labor, materials, and incidentals for the removal and disposal of portions of the existing granite cap and concrete column stubs and furnishing, storing, handling, hauling and installing the New Granite Cap at Existing Columns on the bridge piers, including dressing, cutting and shaping granite pieces, pointing, grouting, anchors, lead wool and mortar, as described above at the locations indicated on the Plans complete and accepted by the Engineer.

END OF SECTION

S:\PROJECTS\1195FD\DESIGN\Contract 16\Addendum 6\MS WORD SPEC PAGES\Inform\807.9910-REMOVE, STOCKPILE AND RESET GRANITE VENEER ON BRIDE PIERS.docx

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Item No.	Item Code	Description	UM	Qty.	Pay Code	Seq. No.
097	808.0514 Cont.	PIER B6		15.00	0028	02
		PIER B7				
		PIER B7		15.00	0028	02
Item 808.0514 Total:				108.00		
098	808.0800	CONCRETE RETAINING WALL CLASS HP	CY			
		3/4" STANDARD 10.3.0				
		WALL "J"				
		WALL J1		8.00	0008	03
Item 808.0800 Total:				8.00		
099	808.1501	CONCRETE SUPERSTRUCTURE CLASS HP	CY			
		3/4'' BRIDGE DECKS				
		LOWER DECK				
		MAIN LOWER DECK		110.00	0028	02
		PLANTER CONCRETE DECKS		25.00	0028	02
		TOPPING SLAB		30.00	0028	02
		LOWER DECK WALLS				
		LARGE WALL			0028	02
		STAIRS			0028	02
		TERRACE WALLS			0028	02
		UPPER DECK				
		CANTILEVER SLAB @ B8		1.50	0028	02
Item 808.1501 Total:				166.50		
100	808.1680	PREFORMED NEOPRENE JOINT SEAL-	LF			
		EXPANSION AND FIXED				
		SOUTH ABUTMENT				
		JOINT AT SW WINGWALL		7.00	0008	03
		WALL J1				
		JOINT AT WALL J		5.00	0031	01
Item 808.1680 Total:				12.00		

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Item No.	Item Code	Description	UM	Qty.	Pay Code	Seq. No.
101	808.1810	CONCRETE SURFACE FINISHING RUBBED	SF			
		REGULAR				
		BOARDWALK				
		SOUTH ABUTMENT		92.00	0008	03
		SW WINGWALL		40.00	0008	03
Item 808.1810 Total:				132.00		

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Item No.	Item Code	Description	UM	Qty.	Pay Code	Seq. No.
S109	824.9901	Cont. DECORATIVE PLATE, TYPE A				
		SPAN 3 LOWER DECK				
		NORTH		117.00	0028	02
				Item 824.9901 Total:	117.00	
110	824.9902	ASTM A500 GRADE B TUBE SECTIONS	LS			
		FURNISH, FABRICATE & ERECT				
		TOTAL QUANTITY OF TUBE SECTIONS				
		TOTAL		1.00	0028	02
				Item 824.9902 Total:	1.00	
S111	824.9903	FURNISH, FABRICATE & ERECT	LS			
		ARCHITECTURAL EXPOSED STRUCTURAL				
		STEEL (AESS)				
		PEDESTRIAN BRIDGE				
		PIER B6 & B7		1.00	0028	02
				Item 824.9903 Total:	1.00	
112	824.9905	AASHTO M270 GRADE 50 STEEL	LS			
		FURNISH, FABRICATE & ERECT				
		BUILT-UP SIMPLE SPANS				
		PEDESTRIAN BRIDGE				
		PEDESTRIAN BRIDGE		1.00	0028	02
				Item 824.9905 Total:	1.00	
113	824.9906	AASHTO M270 GRADE 50 STEEL	LS			
		FURNISH, FABRICATE & ERECT				
		BUILT-UP CURVED (LARGE RADIUS)				
		PEDESTRIAN BRIDGE				
		PEDESTRIAN BRIDGE		1.00	0028	02
				Item 824.9906 Total:	1.00	
114	824.9907	AASHTO M270 GRADE 50S ROLLED STEEL	LS			

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114	824.9907	Cont. FURNISH, FABRICATE & ERECT				
		PEDESTRIAN BRIDGE				
		PEDESTRIAN BRIDGE		1.00	0028	02
				Item 824.9907 Total:		1.00
115	824.9910	ARCHITECTURAL STAINLESS STEEL	SF			
		DECORATIVE PLATE, TYPE B				
		SPAN 1 UPPER DECK				
		NORTH		76.00	0028	02
				Item 824.9910 Total:		76.00
116	824.9920	FURNISH, FABRICATE AND	LS			
		ERECT-MISCELLANEOUS GALVANIZED				
		STEEL FOR BOARDWALK STRUCTURE				
		BOARDWALK				
		BOARDWALK		1.00	0008	03
				Item 824.9920 Total:		1.00
117	826.9907	MANAGEMENT OF BIRD GUANO AND MIXED	SY			
		DEBRIS				
		AS DIRECTED				
		AS DIRECTED		69.00	0031	01
		BOARDWALK NORTH ABUTMENT				
		NORTH ABUTMENT		20.00	0008	03
		PEDESTRIAN BRIDGE				
		PIER 3		92.00	0028	02
		PIER 4		92.00	0028	02
		PIER 5		92.00	0028	02
		PIER 6		92.00	0028	02
		PIER 7		92.00	0028	02
		WALL D				
		WALL D		17.00	0008	03

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213	T06.4040	4 INCH RIGID STEEL CONDUIT IN STRUCTURE Item No. 213, T06.4040 has been deleted.	LF			
		SPANS 1-6 UPPER DECK		475.00	0028	02
		Item T06.4040 Total:		**DELETED**		
214	T06.5220	2 INCH SCHEDULE 80 POLYVINYL CHLORIDE PLASTIC CONDUIT - UNDERGROUND PEDESTRIAN BRIDGE EAST PARK EXISTING SERVICE PEDESTAL	LF			
				10.00	0028	02
		Item T06.5220 Total:		10.00		
215	T06.5230	3 INCH SCHEDULE 80 POLYVINYL CHLORIDE PLASTIC CONDUIT - UNDERGROUND PEDESTRIAN BRIDGE EAST PARK EXISITNG SERVICE PEDESTAL - BRG	LF			
				400.00	0028	02
		Item T06.5230 Total:		400.00		
216	T06.5240	4 INCH SCHEDULE 80 POLYVINYL CHLORIDE PLASTIC CONDUIT - UNDERGROUND PEDESTRIAN BRIDGE ABUTMENT B2 AND B8	LF			
				530.00	0028	02
		Item T06.5240 Total:		530.00		
217	T06.9901	3/4" FIBERGLASS CONDUIT ON STRUCTURE PEDESTRIAN BRIDGE PIERS B3 AND B4, TYPE IHAL	LF			
				8.00	0028	02

Distribution of Quantities

Project Name - I-195 Relocation - Contract 16 - Providence River Pedestrian Bridge
 Estimate Name - Addendum No. 9: I-195 Relocation - Contract 16 - Providence River
 Pedestrian Bridge
 R.I. Contract No. - 2016-CB-038
 FAP Nos: REV 1950(001)

Item No.	Item Code	Description	UM	Qty.	Pay Code	Seq. No.
236	T06.8020	2 INCH FIBERGLASS CONDUIT ON STRUCTURE PEDESTRIAN BRIDGE SPANS 1-3 LOWER DECK	LF	530.00	0028	02
Item T06.8020 Total:				530.00		
237	T06.8040	4 INCH FIBERGLASS CONDUIT ON STRUCTURE PEDESTRIAN BRIDGE SPANS 1-6 UPPER DECK	LF	530.00	0028	02
Item T06.8040 Total:				530.00		
238	T06.9904	1 IN. FIBERGLASS CONDUIT ON STRUCTURE PEDESTRIAN BRIDGE SPANS 1-6 UPPER DECK TYPE V SPANS 2-3 UPPER DECK	LF	620.00 50.00	0028 0028	02 02
Item T06.9904 Total:				670.00		
239	T06.9905	1-1/2 IN. FIBERGLASS CONDUIT ON STRUCTURE PEDESTRIAN BRIDGE ELECTRIC VAULT SPANS 1-6 UPPER DECK RECEPTICLES SPANS 1-6 UPPER DECK, SOUND SYSTEM SPANS 1-6 UPPER DECK, TYPE H SPANS 1-6 UPPER DECK, TYPE UB SPANS 1-6 UPPER DECK, TYPE V	LF	40.00 470.00 470.00 430.00 330.00 1,600.00	0028 0028 0028 0028 0028 0028	02 02 02 02 02 02
Item T06.9905 Total:				3,340.00		
S240	T07.9905	LUMINAIRE TYPE PLNS	EACH			

Distribution of Quantities

Project Name - I-195 Relocation - Contract 16 - Providence River Pedestrian Bridge
 Estimate Name - Addendum No. 9: I-195 Relocation - Contract 16 - Providence River
 Pedestrian Bridge
 R.I. Contract No. - 2016-CB-038
 FAP Nos: REV 1950(001)

Item No.	Item Code	Description	UM	Qty.	Pay Code	Seq. No.
S240	T07.9905 Cont.	PEDESTRIAN BRIDGE Item No. 240, T07.9905 has been deleted. LOWER DECK, SPANS 4-6			0028	02
Item T07.9905 Total:				**DELETED**		
S241	T07.9907	LUMINAIRE TYPE UP2A Item No. 241, T07.9907 has been deleted. PEDESTRIAN BRIDGE LOWER DECK, SPANS 4-6	EACH		0028	02
Item T07.9907 Total:				**DELETED**		
S242	T07.9908	LUMINAIRE TYPE UP2A PEDESTRIAN BRIDGE LOWER DECK, SPANS 4-6	EACH	4.00	0028	02
Item T07.9908 Total:				4.00		
S243	T07.9918	LUMINAIRE TYPE UP4 PEDESTRIAN BRIDGE LOWER DECK, SPANS 4-5	EACH	2.00	0028	02
Item T07.9918 Total:				2.00		
S244	T07.9919	LUMINAIRE TYPE CCG PEDESTRIAN BRIDGE LOWER DECK, SPANS 4-5	EACH	4.00	0028	02
Item T07.9919 Total:				4.00		
S245	T07.9920	LUMINAIRE TYPE CMR PEDESTRIAN BRIDGE LOWER DECK, SPANS 4-6	EACH	2.00	0028	02
Item T07.9920 Total:				2.00		
S246	T09.9903	SERVICE PEDESTAL WITH METERING PEDESTRIAN BRIDGE EXISTING SERVICE PEDESTAL, SOUTH WATER STREET	EACH	1.00	0028	02

Distribution of Quantities

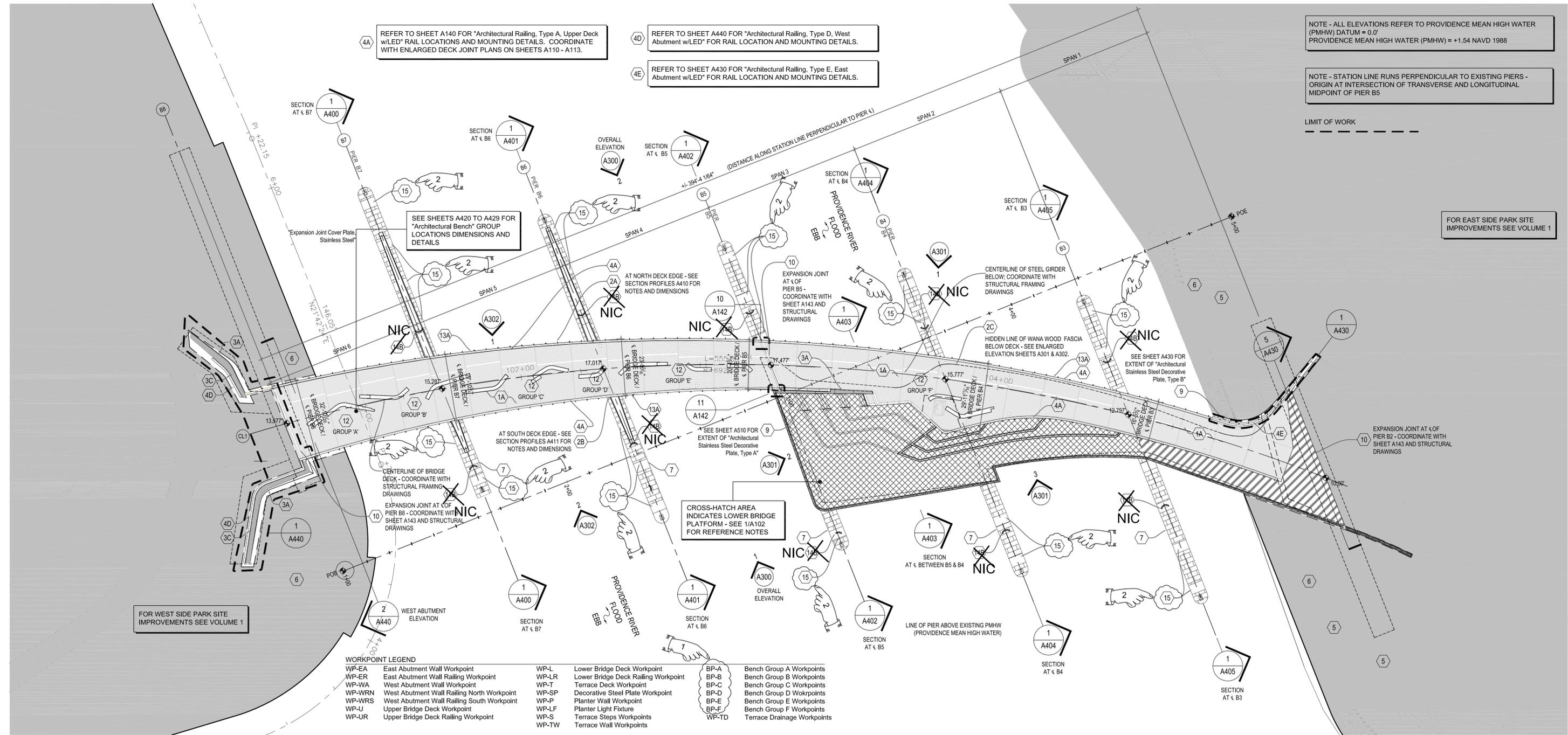
Project Name - I-195 Relocation - Contract 16 - Providence River Pedestrian Bridge
 Estimate Name - Addendum No. 9: I-195 Relocation - Contract 16 - Providence River
 Pedestrian Bridge
 R.I. Contract No. - 2016-CB-038
 FAP Nos: REV 1950(001)

Item No.	Item Code	Description	UM	Qty.	Pay Code	Seq. No.
S246	T09.9903	Cont.				
				Item T09.9903 Total:	1.00	
247	807.9910	REMOVE, STOCKPILE AND RESET	SF			
GRANITE VENEER ON BRIDGE PIERS						
PEDESTRIAN BRIDGE						
		PIER B3		220.00	0028	02
		PIER B4		235.00	0028	02
		PIER B5		440.00	0028	02
		PIER B6		250.00	0028	02
		PIER B7		410.00	0028	02
				Item 807.9910 Total:	1,555.00	
248	824.9911	ARCHITECTURAL STAINLESS STEEL ANGLE LF				
PEDESTRIAN BRIDGE						
		PLANTER WALLS		200.00	0028	02
				Item 824.9911 Total:	200.00	
249	824.9912	ARCHITECTURAL STAINLESS STEEL BENT LF	LF			
CLOSURE PLATE						
PEDESTRIAN BRIDGE						
		PLANTER WALLS		173.00	0028	02
				Item 824.9912 Total:	173.00	
250	944.9901	DIESEL EMISSION REDUCTION PROGRAM	EACH			
I-195 CONTRACT 16						
		I-195 CONTRACT 16		113,000.00	0028	02
				Item 944.9901 Total:	113,000.00	
251	808.1509	CONCRETE SUPERSTRUCTURE CLASS HP	CY			
3/4'' WALLS						
LOWER DECK WALLS						
		LARGE WALL		30.00	0028	02
		STAIRS		4.00	0028	02

Distribution of Quantities

Project Name - I-195 Relocation - Contract 16 - Providence River Pedestrian Bridge
 Estimate Name - Addendum No. 9: I-195 Relocation - Contract 16 - Providence River
 Pedestrian Bridge
 R.I. Contract No. - 2016-CB-038
 FAP Nos: REV 1950(001)

Item No.	Item Code	Description	UM	Qty.	Pay Code	Seq. No.
251	808.1509 Cont.	TERRACE WALLS		6.00	0028	02
Item 808.1509 Total:				40.00		
252	808.9950	FURNISH, FABRICATE AND ERECT 3C16 GALVINIZED NON-COMPISITE STEEL STAY-IN-PLACE FORMS PEDESTRIAN BRIDGE LOWER DECK	SF	4,800.00	0028	02
Item 808.9950 Total:				4,800.00		
253	834.9920	NEW GRANITE CAP AT EXISTING COLUMNS EACH PEDESTRIAN BRIDGE PIER B3 PIER B4 PIER B5 PIER B6 PIER B7		7.00 5.00 4.00 5.00 4.00	0028 0028 0028 0028 0028	02 02 02 02 02
Item 834.9920 Total:				25.00		



NOTE - ALL ELEVATIONS REFER TO PROVIDENCE MEAN HIGH WATER (PMHW) DATUM = 0.0'
 PROVIDENCE MEAN HIGH WATER (PMHW) = +1.54 NAVD 1988

NOTE - STATION LINE RUNS PERPENDICULAR TO EXISTING PIERS - ORIGIN AT INTERSECTION OF TRANSVERSE AND LONGITUDINAL MIDPOINT OF PIER B5

LIMIT OF WORK

FOR EAST SIDE PARK SITE IMPROVEMENTS SEE VOLUME 1

FOR WEST SIDE PARK SITE IMPROVEMENTS SEE VOLUME 1

WORKPOINT LEGEND

WP-EA East Abutment Wall Workpoint	WP-LR Lower Bridge Deck Workpoint	BP-A Bench Group A Workpoints
WP-ER East Abutment Wall Railing Workpoint	WP-LR Lower Bridge Deck Railing Workpoint	BP-B Bench Group B Workpoints
WP-WA West Abutment Wall Workpoint	WP-T Terrace Deck Workpoint	BP-C Bench Group C Workpoints
WP-WRN West Abutment Wall Railing North Workpoint	WP-SP Decorative Steel Plate Workpoint	BP-D Bench Group D Workpoints
WP-WRS West Abutment Wall Railing South Workpoint	WP-P Planter Wall Workpoint	BP-E Bench Group E Workpoints
WP-U Upper Bridge Deck Workpoint	WP-LF Planter Light Fixture	BP-F Bench Group F Workpoints
WP-UR Upper Bridge Deck Railing Workpoint	WP-S Terrace Steps Workpoints	WP-TD Terrace Drainage Workpoints
	WP-TW Terrace Wall Workpoints	

MATERIAL LEGEND

(1A) IPE WOOD DECK, UPPER DECK	(2D) WANA WOOD, LOWER BRIDGE FASCIA - SOUTH	(4C) ARCHITECTURAL RAILING, TYPE C, HANDRAIL AT STEPS	(8) COLUMN SUPPORT - SEE STRUCTURAL DRAWINGS
(1B) IPE WOOD DECK, TERRACE	(3A) MASONRY VENEER, BLUESTONE TILE	(4D) ARCHITECTURAL RAILING, TYPE D, WEST ABUTMENT w/LED	(9) ARCHITECTURAL S.S. DECORATIVE PLATE
(1C) IPE WOOD DECK, LOWER DECK, TYPE A	(3B) MASONRY VENEER, BLUESTONE TILE, SLOPED	(4E) ARCHITECTURAL RAILING, TYPE E, EAST ABUTMENT w/LED	(10) EXPANSION JOINT COVER PLATE, STAINLESS STEEL
(1D) IPE WOOD DECK, LOWER DECK, TYPE B	(3C) MASONRY VENEER, BLUESTONE COPING	(4F) ARCHITECTURAL RAILING, TYPE F, HANDRAIL w/LED	(11) ARCHITECTURAL STAINLESS STEEL MESH
(2A) WANA WOOD, UPPER BRIDGE FASCIA - SOUTH	(3D) MASONRY VENEER, BLUESTONE STEPS	(5) RIVER WALL ON EXISTING RIP-RAP BASE (SEE VOLUME 1)	(12) ARCHITECTURAL BENCH - SEE ENLARGED PLANS ON SHEET A420 - A426 TO BENCH TYPES
(2B) WANA WOOD, LOWER BRIDGE FASCIA - NORTH	(4A) ARCHITECTURAL RAILING, TYPE A, UPPER DECK w/LED	(6) WETLAND PLANTING (SEE VOLUME 1)	(13A) IPE EDGE BOARD, UPPER
(2C) WANA WOOD, LOWER BRIDGE FASCIA - SOUTH	(4B) ARCHITECTURAL RAILING, TYPE B, LOWER DECK w/LED	(7) EXISTING PIER FOUNDATION W/ GRANITE MASONRY VENEER	(13B) IPE EDGE BOARD, LOWER
			(13C) IPE EDGE BOARD, TERRACE
			(14A) LINEAR UPLIGHT - SEE ELECTRICAL DRAWINGS
			(14B) PIER FLOOD LIGHT - SEE ELECTRICAL DRAWINGS
			(14C) PLANTER BOLLARD LIGHT - SEE ELECTRICAL DRAWINGS
			(15) NEW GRANITE CAP AT EXISTING COLUMNS

PLAN NORTH
 1
 A101
 1" = 20'-0"

PROVIDENCE PEDESTRIAN BRIDGE
 OVERALL UPPER DECK PLAN

ADDENDUM NO. 9

REF DWG #	REFERENCE DRAWING NAME
S101	OVERALL BRIDGE PLAN

REFERENCE SHEET A101-A106 FOR MATERIALS NOT LABELED ON SHEET A101.



RHODE ISLAND
 DEPARTMENT OF TRANSPORTATION

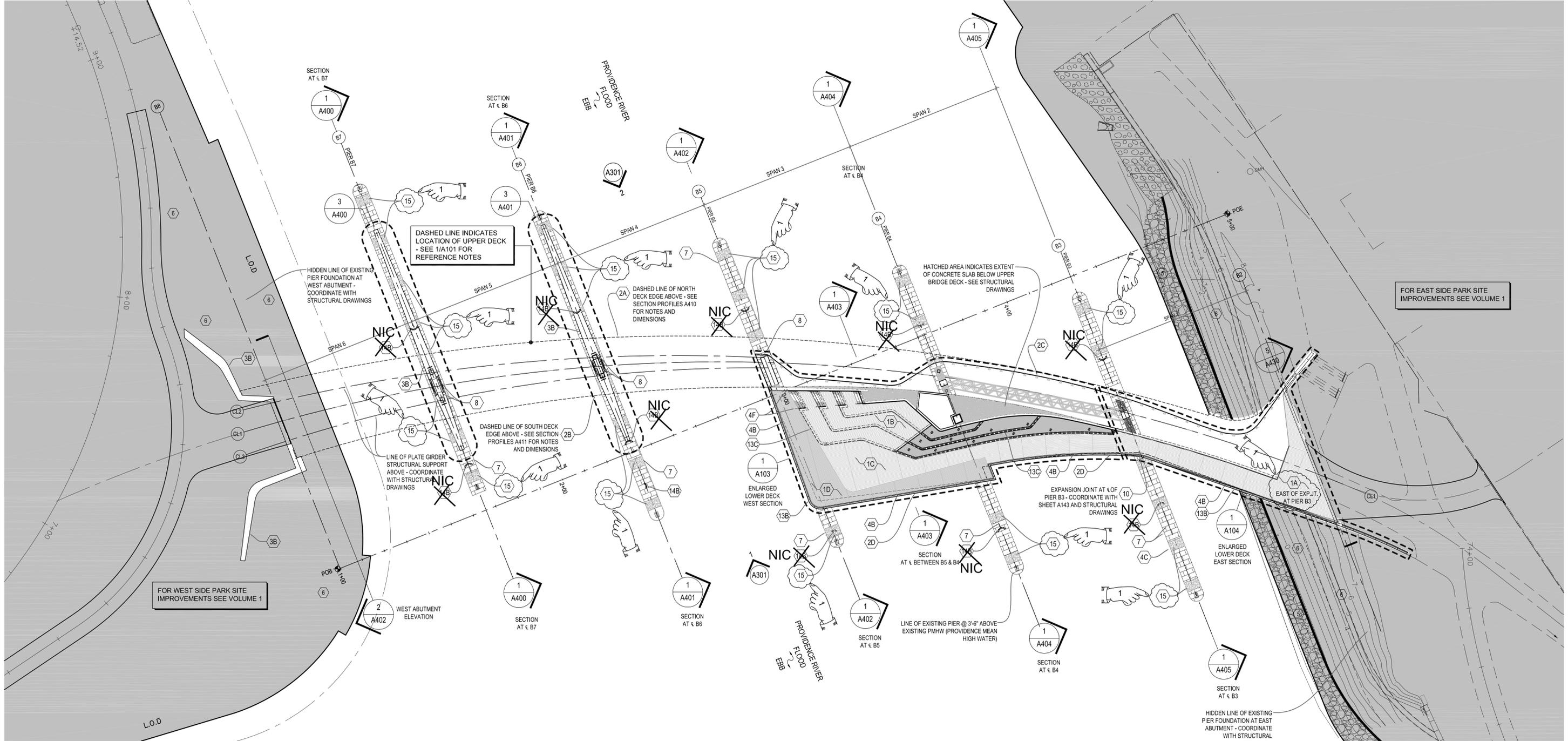


DESIGNED BY:
 CHECKED:
 DATE:
 SHEET: V2_002
 OF: V2_163

SCALE:

REVISIONS			REVISIONS		
NO.	DATE	BY	NO.	DATE	BY
1	6/14/2016	CL			
2	7/8/2016	CL			

IMPROVEMENTS TO INTERSTATE ROUTE 195
 CONTRACT 16 VOLUME 2
 PROVIDENCE RHODE ISLAND
 OVERALL UPPER BRIDGE PLAN
 A101



FOR WEST SIDE PARK SITE IMPROVEMENTS SEE VOLUME 1

FOR EAST SIDE PARK SITE IMPROVEMENTS SEE VOLUME 1



PLAN NORTH
1
A102
1" = 20'-0"

NOTE - ALL ELEVATIONS REFER TO PROVIDENCE MEAN HIGH WATER (PMHW) DATUM = 0.0'
PROVIDENCE MEAN HIGH WATER (PMHW) = +1.54 NAVD 1988

NOTE - STATION LINE RUNS PERPENDICULAR TO EXISTING PIERS - ORIGIN AT INTERSECTION OF TRANSVERSE AND LONGITUDINAL MIDPOINT OF PIER B5

LIMIT OF WORK

MATERIAL LEGEND

- | | | | |
|--|---|--|--|
| 1A) IPE WOOD DECK, UPPER DECK | 2D) WANA WOOD, LOWER BRIDGE FASCIA - SOUTH | 4D) ARCHITECTURAL RAILING, TYPE D, WEST ABUTMENT w/LED | 9) ARCHITECTURAL S.S. DECORATIVE PLATE |
| 1B) IPE WOOD DECK, TERRACE | 3A) MASONRY VENEER, BLUESTONE TILE | 4E) ARCHITECTURAL RAILING, TYPE E, EAST ABUTMENT w/LED | 10) EXPANSION JOINT, STAINLESS STEEL |
| 1C) IPE WOOD DECK, LOWER DECK, TYPE A | 3B) MASONRY VENEER, BLUESTONE TILE, SLOPED | 4F) ARCHITECTURAL RAILING, TYPE F, HANDRAIL w/LED | 11) ARCHITECTURAL STAINLESS STEEL MESH |
| 1D) IPE WOOD DECK, LOWER DECK, TYPE B | 3C) MASONRY VENEER, BLUESTONE COPING | 5) RIVER WALL ON EXISTING RIP-RAP BASE (SEE VOLUME 1) | 12) ARCHITECTURAL BENCH - SEE ENLARGED PLANS ON SHEET A420 - A426 TO BENCH TYPES |
| 2A) WANA WOOD, UPPER BRIDGE FASCIA - SOUTH | 3D) MASONRY VENEER, BLUESTONE STEPS | 6) WETLAND PLANTING (SEE VOLUME 1) | 13A) IPE EDGE BOARD, UPPER |
| 2B) WANA WOOD, LOWER BRIDGE FASCIA - NORTH | 4A) ARCHITECTURAL RAILING, TYPE A, UPPER DECK w/LED | 7) EXISTING PIER FOUNDATION W/ GRANITE MASONRY VENEER | 13B) IPE EDGE BOARD, LOWER |
| 2C) WANA WOOD, LOWER BRIDGE FASCIA - SOUTH | 4B) ARCHITECTURAL RAILING, TYPE B, LOWER DECK w/LED | 8) COLUMN SUPPORT - SEE STRUCTURAL DRAWINGS | 13C) IPE EDGE BOARD, TERRACE |

REFERENCE SHEET A101-A106 FOR MATERIALS NOT LABELED ON SHEET A102.

ADDENDUM NO. 9

REF DWG #	REFERENCE DRAWING NAME
S122	EAST FRAMING PLAN



RHODE ISLAND
DEPARTMENT OF TRANSPORTATION



DESIGNED BY:
CHECKED:
DATE:
SHEET: V2_003
OF: V2_163

SCALE:

REVISIONS			REVISIONS		
NO.	DATE	BY	NO.	DATE	BY
1	7/8/2016	CL			

IMPROVEMENTS TO
INTERSTATE ROUTE 195
CONTRACT 16 VOLUME 2
PROVIDENCE RHODE ISLAND
OVERALL LOWER BRIDGE PLAN
A102

FED. ROAD DIST. NO.	STATE	FEDERAL AID PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
1	R.I.			V2_004	V2_163

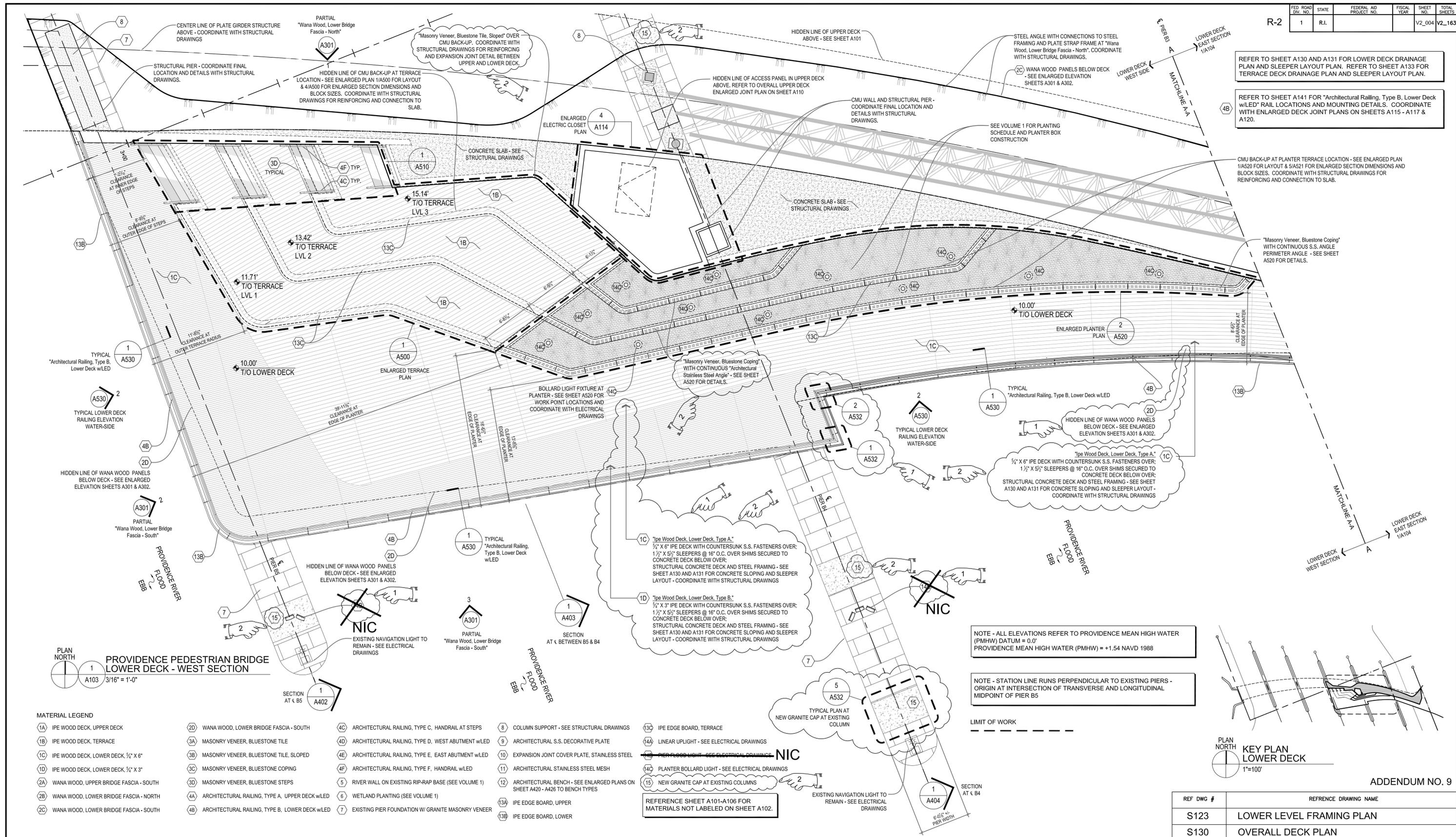
R-2

REFER TO SHEET A130 AND A131 FOR LOWER DECK DRAINAGE PLAN AND SLEEPER LAYOUT PLAN. REFER TO SHEET A133 FOR TERRACE DECK DRAINAGE PLAN AND SLEEPER LAYOUT PLAN.

REFER TO SHEET A141 FOR "Architectural Railing, Type B, Lower Deck w/LED" RAIL LOCATIONS AND MOUNTING DETAILS. COORDINATE WITH ENLARGED DECK JOINT PLANS ON SHEETS A115 - A117 & A120.

CMU BACK-UP AT PLANTER TERRACE LOCATION - SEE ENLARGED PLAN 1/A520 FOR LAYOUT & 5/A521 FOR ENLARGED SECTION DIMENSIONS AND BLOCK SIZES. COORDINATE WITH STRUCTURAL DRAWINGS FOR REINFORCING AND CONNECTION TO SLAB.

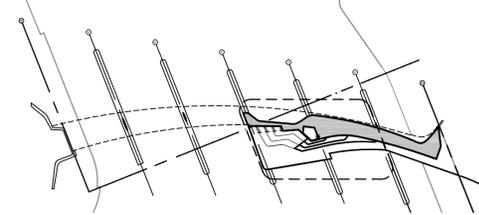
"Masonry Veneer, Bluestone Coping" WITH CONTINUOUS S.S. ANGLE PERIMETER DETAILS - SEE SHEET A520 FOR DETAILS.



NOTE - ALL ELEVATIONS REFER TO PROVIDENCE MEAN HIGH WATER (PMHW) DATUM = 0.0
PROVIDENCE MEAN HIGH WATER (PMHW) = +1.54 NAVD 1988

NOTE - STATION LINE RUNS PERPENDICULAR TO EXISTING PIERS - ORIGIN AT INTERSECTION OF TRANSVERSE AND LONGITUDINAL MIDPOINT OF PIER B5

LIMIT OF WORK

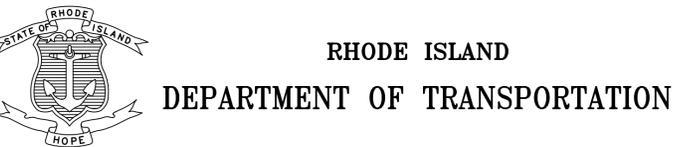


ADDENDUM NO. 9

REF DWG #	REFERENCE DRAWING NAME
S123	LOWER LEVEL FRAMING PLAN
S130	OVERALL DECK PLAN

MATERIAL LEGEND

- | | | | | |
|---|--|---|---|---|
| (1A) IPE WOOD DECK, UPPER DECK | (2D) WANA WOOD, LOWER BRIDGE FASCIA - SOUTH | (4C) ARCHITECTURAL RAILING, TYPE C, HANDRAIL AT STEPS | (8) COLUMN SUPPORT - SEE STRUCTURAL DRAWINGS | (13C) IPE EDGE BOARD, TERRACE |
| (1B) IPE WOOD DECK, TERRACE | (3A) MASONRY VENEER, BLUESTONE TILE | (4D) ARCHITECTURAL RAILING, TYPE D, WEST ABUTMENT w/LED | (9) ARCHITECTURAL S.S. DECORATIVE PLATE | (14A) LINEAR UPLIGHT - SEE ELECTRICAL DRAWINGS |
| (1C) IPE WOOD DECK, LOWER DECK, 1/2" X 6" | (3B) MASONRY VENEER, BLUESTONE TILE, SLOPED | (4E) ARCHITECTURAL RAILING, TYPE E, EAST ABUTMENT w/LED | (10) EXPANSION JOINT COVER PLATE, STAINLESS STEEL | (14B) PIER FLOOD LIGHT - SEE ELECTRICAL DRAWINGS |
| (1D) IPE WOOD DECK, LOWER DECK, 3/4" X 3" | (3C) MASONRY VENEER, BLUESTONE COPING | (4F) ARCHITECTURAL RAILING, TYPE F, HANDRAIL w/LED | (11) ARCHITECTURAL STAINLESS STEEL MESH | (14C) PLANTER BOLLARD LIGHT - SEE ELECTRICAL DRAWINGS |
| (2A) WANA WOOD, UPPER BRIDGE FASCIA - SOUTH | (3D) MASONRY VENEER, BLUESTONE STEPS | (5) RIVER WALL ON EXISTING RIP-RAP BASE (SEE VOLUME 1) | (12) ARCHITECTURAL BENCH - SEE ENLARGED PLANS ON SHEET A420 - A426 TO BENCH TYPES | (15) NEW GRANITE CAP AT EXISTING COLUMNS |
| (2B) WANA WOOD, LOWER BRIDGE FASCIA - NORTH | (4A) ARCHITECTURAL RAILING, TYPE A, UPPER DECK w/LED | (6) WETLAND PLANTING (SEE VOLUME 1) | (13A) IPE EDGE BOARD, UPPER | |
| (2C) WANA WOOD, LOWER BRIDGE FASCIA - SOUTH | (4B) ARCHITECTURAL RAILING, TYPE B, LOWER DECK w/LED | (7) EXISTING PIER FOUNDATION w/ GRANITE MASONRY VENEER | (13B) IPE EDGE BOARD, LOWER | |

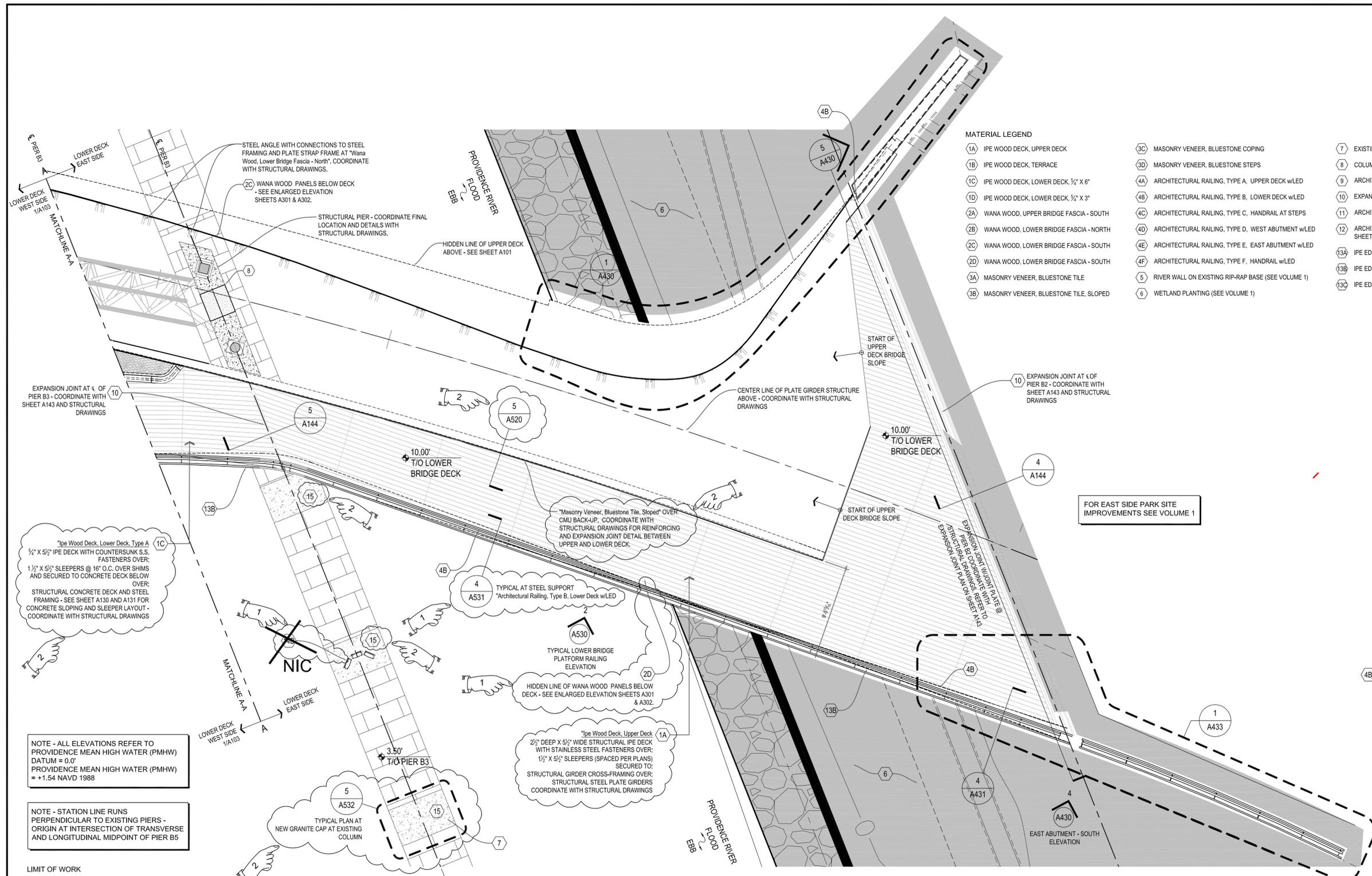


DESIGNED BY:
CHECKED:
DATE:
SHEET: V2_004
OF: V2_163

SCALE:

REVISIONS			REVISIONS		
NO.	DATE	BY	NO.	DATE	BY
1	6/14/2016	CL			
2	7/8/2016	CL			

IMPROVEMENTS TO INTERSTATE ROUTE 195 CONTRACT 16 VOLUME 2	
BRIDGE PLAN - LOWER DECK - WEST	A103



MATERIAL LEGEND

- 1A) IPE WOOD DECK, UPPER DECK
- 1B) IPE WOOD DECK, TERRACE
- 1C) IPE WOOD DECK, LOWER DECK, 3/4" X 6"
- 1D) IPE WOOD DECK, LOWER DECK, 3/4" X 3"
- 2A) WANA WOOD, UPPER BRIDGE FASCIA - SOUTH
- 2B) WANA WOOD, LOWER BRIDGE FASCIA - NORTH
- 2C) WANA WOOD, LOWER BRIDGE FASCIA - SOUTH
- 2D) WANA WOOD, LOWER BRIDGE FASCIA - SOUTH
- 3A) MASONRY VENEER, BLUESTONE TILE
- 3B) MASONRY VENEER, BLUESTONE TILE, SLOPED
- 3C) MASONRY VENEER, BLUESTONE COPING
- 3D) MASONRY VENEER, BLUESTONE STEPS
- 4A) ARCHITECTURAL RAILING, TYPE A, UPPER DECK w/LED
- 4B) ARCHITECTURAL RAILING, TYPE B, LOWER DECK w/LED
- 4C) ARCHITECTURAL RAILING, TYPE C, HANDRAIL AT STEPS
- 4D) ARCHITECTURAL RAILING, TYPE D, WEST ABUTMENT w/LED
- 4E) ARCHITECTURAL RAILING, TYPE E, EAST ABUTMENT w/LED
- 4F) ARCHITECTURAL RAILING, TYPE F, HANDRAIL w/LED
- 5) RIVER WALL ON EXISTING RIP-RAP BASE (SEE VOLUME 1)
- 6) WETLAND PLANTING (SEE VOLUME 1)
- 7) EXISTING PIER FOUNDATION W/ GRANITE MASONRY VENEER
- 8) COLUMN SUPPORT - SEE STRUCTURAL DRAWINGS
- 9) ARCHITECTURAL S.S. DECORATIVE PLATE
- 10) EXPANSION JOINT COVER PLATE, STAINLESS STEEL
- 11) ARCHITECTURAL STAINLESS STEEL MESH
- 12) ARCHITECTURAL BENCH - SEE ENLARGED PLANS ON SHEET A420 - A426 TO BENCH TYPES
- 13A) IPE EDGE BOARD, UPPER
- 13B) IPE EDGE BOARD, LOWER
- 13C) IPE EDGE BOARD, TERRACE
- 14A) LINEAR UPLIGHT - SEE ELECTRICAL DRAWINGS
- 14B) PIER FLOOD LIGHT - SEE ELECTRICAL DRAWINGS
- 14C) PLANTER BOLLARD LIGHT - SEE ELECTRICAL DRAWINGS
- 15) NEW GRANITE CAP AT EXISTING COLUMNS

REFERENCE SHEET A101-A106 FOR MATERIALS NOT LABELED ON SHEET A104.

"Ipe Wood Deck, Lower Deck, Type A"
 3/4" X 5 1/2" IPE DECK WITH COUNTERSUNK S.S. FASTENERS OVER;
 1 1/2" X 5 1/2" SLEEPERS @ 16" O.C. OVER SHIMS AND SECURED TO CONCRETE DECK BELOW OVER;
 STRUCTURAL CONCRETE DECK AND STEEL FRAMING - SEE SHEET A130 AND A131 FOR CONCRETE SLOPING AND SLEEPER LAYOUT - COORDINATE WITH STRUCTURAL DRAWINGS

"Masonry Veneer, Bluestone Tile, Sloped" OVER CMU BACK-UP. COORDINATE WITH STRUCTURAL DRAWINGS FOR REINFORCING AND EXPANSION JOINT DETAIL BETWEEN UPPER AND LOWER DECK.

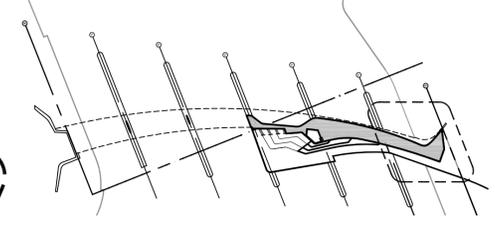
"Ipe Wood Deck, Upper Deck"
 2 1/2" DEEP X 5 1/2" WIDE STRUCTURAL IPE DECK WITH STAINLESS STEEL FASTENERS OVER;
 1 1/2" X 5 1/2" SLEEPERS (SPACED PER PLANS) SECURED TO STRUCTURAL GIRDER CROSS-FRAMING OVER; STRUCTURAL STEEL PLATE GIRDERS COORDINATE WITH STRUCTURAL DRAWINGS

NOTE - ALL ELEVATIONS REFER TO PROVIDENCE MEAN HIGH WATER (PMHW) DATUM = 0.0'
 PROVIDENCE MEAN HIGH WATER (PMHW) = +1.54 NAVD 1988

NOTE - STATION LINE RUNS PERPENDICULAR TO EXISTING PIERS - ORIGIN AT INTERSECTION OF TRANSVERSE AND LONGITUDINAL MIDPOINT OF PIER B5

REFER TO SHEET A130 AND A131 FOR LOWER DECK DRAINAGE PLAN AND SLEEPER LAYOUT PLAN. REFER TO SHEET A132 FOR PARTIAL LOWER DECK SLEEPER LAYOUT PLAN.

REFER TO SHEET A141 FOR "Architectural Railing, Type B, Lower Deck w/LED" RAIL LOCATIONS AND MOUNTING DETAILS AND SHEET A430 FOR "Architectural Railing, Type E, East Abutment w/LED" RAIL LOCATIONS AND MOUNTING DETAILS. COORDINATE WITH ENLARGED DECK JOINT PLANS ON SHEETS A115 - A117 & A120.



PROVIDENCE PEDESTRIAN BRIDGE LOWER DECK - EAST SECTION
 3/16" = 1'-0"

KEY PLAN LOWER DECK
 1"=100'

ADDENDUM NO. 9

REF DWG #	REFERENCE DRAWING NAME
S123	LOWER LEVEL FRAMING PLAN
S130	OVERALL DECK PLAN



RHODE ISLAND DEPARTMENT OF TRANSPORTATION

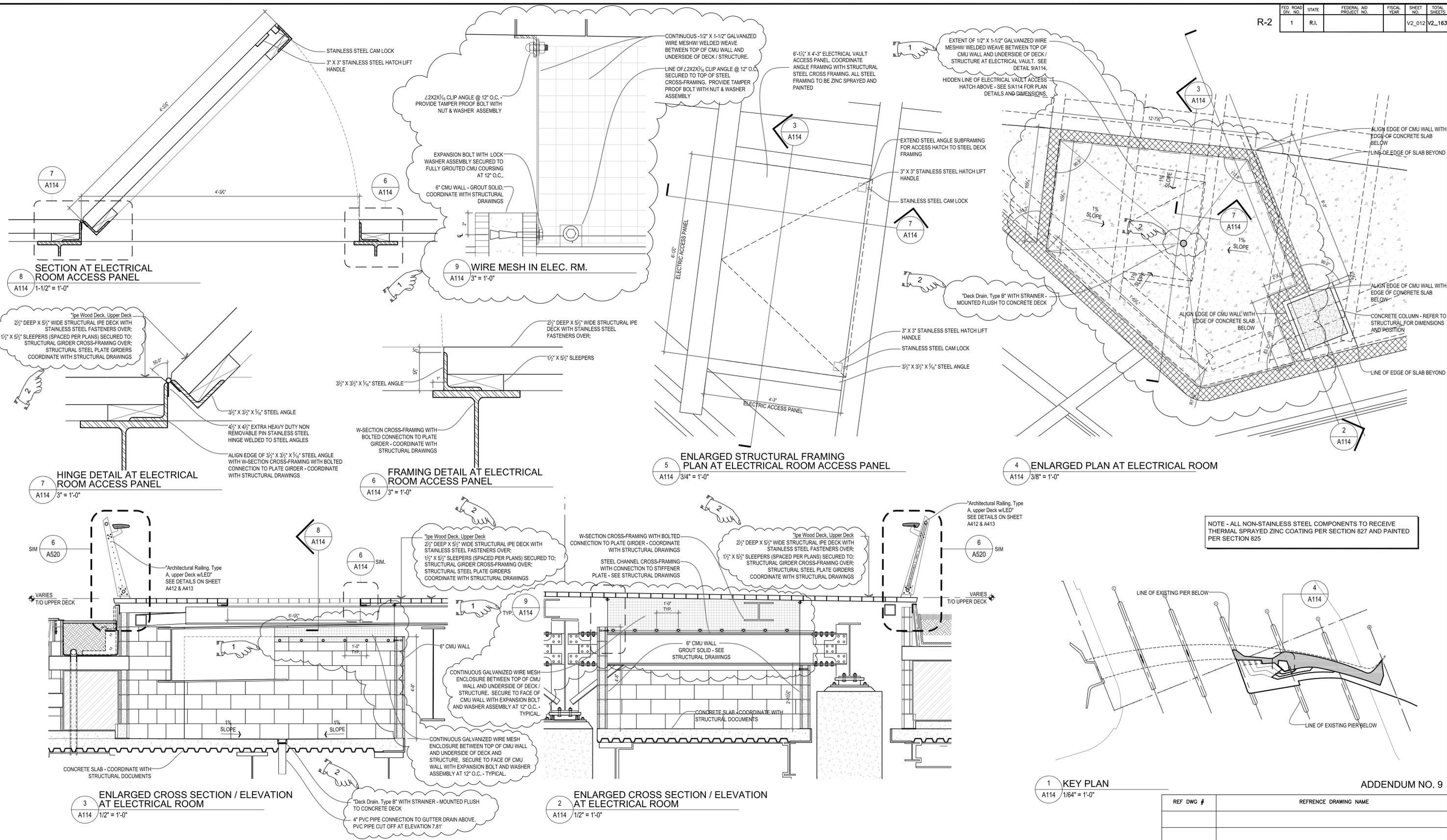


DESIGNED BY:
 CHECKED:
 DATE:
 SHEET: V2_005
 OF: V2_163

SCALE:

REVISIONS			REVISIONS		
NO.	DATE	BY	NO.	DATE	BY
1	6/14/2016	CL			
2	7/8/2016	CL			

IMPROVEMENTS TO INTERSTATE ROUTE 195 CONTRACT 16 VOLUME 2
 BRIDGE PLAN - LOWER PLATFORM - EAST A104



NOTE - ALL NON-STAINLESS STEEL COMPONENTS TO RECEIVE THERMAL SPRAYED ZINC COATING PER SECTION 827 AND PAINTED PER SECTION 825

ADDENDUM NO. 9

REF DWG #	REFERENCE DRAWING NAME



RHODE ISLAND
 DEPARTMENT OF TRANSPORTATION



DESIGNED BY:
 CHECKED:
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 SHEET: V2_012
 OF: V2_163

SCALE:

REVISIONS			REVISIONS		
NO.	DATE	BY	NO.	DATE	BY
1	6/14/2016	CL			
2	7/8/2016	CL			

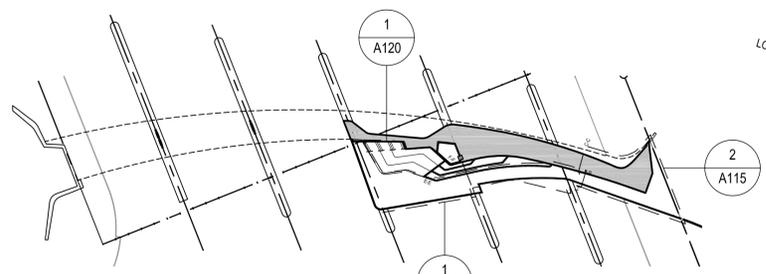
IMPROVEMENTS TO
 INTERSTATE ROUTE 195
 CONTRACT 16 VOLUME 2
 PROVIDENCE RHODE ISLAND
 ELECTRICAL ROOM - PLANS & DETAILS
 A114

WORK POINT	PLAN DATA																		
	STATION	STATION OFFSET	ELEVATION																
WP-L.1	4+78.18	109.59 RIGHT	10.00 (PMHW)	WP-L.17	4+33.20	83.41 RIGHT	10.00 (PMHW)	WP-L.33	3+17.94	55.14 RIGHT	10.00 (PMHW)	WP-L.49	3+21.61	30.91 RIGHT	10.00 (PMHW)	WP-L.65	4+20.39	67.55 RIGHT	10.00 (PMHW)
WP-L.2	4+87.42	99.10 RIGHT	10.00 (PMHW)	WP-L.18	4+28.66	79.74 RIGHT	09.96 (PMHW)	WP-L.34	3+12.52	49.93 RIGHT	10.00 (PMHW)	WP-L.50	3+20.90	33.83 RIGHT	10.00 (PMHW)	WP-L.66	4+20.60	65.56 RIGHT	10.00 (PMHW)
WP-L.3	4+92.95	78.22 RIGHT	10.00 (PMHW)	WP-L.19	4+28.41	79.59 RIGHT	10.00 (PMHW)	WP-L.35	3+13.12	44.97 RIGHT	10.00 (PMHW)	WP-L.51	3+22.88	31.57 RIGHT	10.00 (PMHW)	WP-L.67	4+21.55	67.32 RIGHT	10.00 (PMHW)
WP-L.4	4+94.63	77.22 RIGHT	10.00 (PMHW)	WP-L.20	4+19.11	75.22 RIGHT	10.00 (PMHW)	WP-L.36	3+08.17	45.73 RIGHT	10.00 (PMHW)	WP-L.52	3+24.61	33.09 RIGHT	10.00 (PMHW)	WP-L.68	4+22.80	66.67 RIGHT	10.00 (PMHW)
WP-L.5	4+94.64	105.61 RIGHT	10.00 (PMHW)	WP-L.21	4+10.15	71.57 RIGHT	10.00 (PMHW)	WP-L.37	3+08.12	53.03 RIGHT	10.00 (PMHW)	WP-L.53	3+33.72	41.10 RIGHT	10.00 (PMHW)	WP-L.69	4+28.41	70.70 RIGHT	10.00 (PMHW)
WP-L.6	4+92.72	103.95 RIGHT	10.00 (PMHW)	WP-L.22	4+01.06	68.28 RIGHT	10.00 (PMHW)	WP-L.38	2+98.30	50.91 RIGHT	10.00 (PMHW)	WP-L.54	3+39.70	46.35 RIGHT	10.00 (PMHW)	WP-L.70	4+28.66	70.88 RIGHT	09.96 (PMHW)
WP-L.7	4+92.75	118.84 RIGHT	10.00 (PMHW)	WP-L.23	3+91.83	65.36 RIGHT	10.00 (PMHW)	WP-L.39	2+96.60	50.54 RIGHT	10.00 (PMHW)	WP-L.55	3+41.02	44.84 RIGHT	10.00 (PMHW)	WP-L.71	4+37.65	77.54 RIGHT	10.00 (PMHW)
WP-L.8	4+94.65	120.48 RIGHT	10.00 (PMHW)	WP-L.24	3+82.50	62.81 RIGHT	10.00 (PMHW)	WP-L.40	2+97.48	46.43 RIGHT	10.00 (PMHW)	WP-L.56	3+40.72	46.82 RIGHT	10.00 (PMHW)	WP-L.72	4+45.41	83.49 RIGHT	10.00 (PMHW)
WP-L.9	4+94.65	136.53 RIGHT	10.00 (PMHW)	WP-L.25	3+73.07	60.64 RIGHT	10.00 (PMHW)	WP-L.41	2+93.28	46.30 RIGHT	10.00 (PMHW)	WP-L.57	3+43.07	47.18 RIGHT	10.00 (PMHW)	WP-L.73	4+53.08	89.55 RIGHT	10.00 (PMHW)
WP-L.10	4+84.62	127.85 RIGHT	10.00 (PMHW)	WP-L.26	3+67.51	56.53 RIGHT	10.00 (PMHW)	WP-L.42	2+94.84	02.15 LEFT	10.00 (PMHW)	WP-L.58	3+52.95	48.71 RIGHT	10.00 (PMHW)	WP-L.74	4+60.64	95.73 RIGHT	10.00 (PMHW)
WP-L.11	4+77.05	121.32 RIGHT	10.00 (PMHW)	WP-L.27	3+67.51	59.54 RIGHT	10.00 (PMHW)	WP-L.43	3+01.18	00.43 RIGHT	10.00 (PMHW)	WP-L.59	3+62.84	50.24 RIGHT	10.00 (PMHW)	WP-L.75	4+68.10	102.01 RIGHT	10.00 (PMHW)
WP-L.12	4+69.70	114.96 RIGHT	10.00 (PMHW)	WP-L.28	3+67.51	65.82 RIGHT	10.00 (PMHW)	WP-L.44	3+02.97	12.02 RIGHT	10.00 (PMHW)	WP-L.60	3+74.83	52.27 RIGHT	10.00 (PMHW)	WP-L.76	4+75.46	108.40 RIGHT	10.00 (PMHW)
WP-L.13	4+62.42	108.67 RIGHT	10.00 (PMHW)	WP-L.29	3+57.21	63.60 RIGHT	10.00 (PMHW)	WP-L.45	3+04.92	24.64 RIGHT	10.00 (PMHW)	WP-L.61	3+84.60	54.48 RIGHT	10.00 (PMHW)	WP-L.77	4+77.57	110.28 RIGHT	10.00 (PMHW)
WP-L.14	4+55.14	102.37 RIGHT	10.00 (PMHW)	WP-L.30	3+47.40	61.48 RIGHT	10.00 (PMHW)	WP-L.46	3+08.37	24.08 RIGHT	10.00 (PMHW)	WP-L.62	3+94.23	57.22 RIGHT	10.00 (PMHW)	WP-L.78	3+38.82	233.73 RIGHT	10.00 (PMHW)
WP-L.15	4+47.83	96.06 RIGHT	10.00 (PMHW)	WP-L.31	3+37.58	59.36 RIGHT	10.00 (PMHW)	WP-L.47	3+07.54	27.48 RIGHT	10.00 (PMHW)	WP-L.63	4+03.70	60.48 RIGHT	10.00 (PMHW)	WP-L.79	3+23.95	295.66 RIGHT	10.00 (PMHW)
WP-L.16	4+40.52	89.74 RIGHT	10.00 (PMHW)	WP-L.32	3+27.76	57.25 RIGHT	10.00 (PMHW)	WP-L.48	3+14.99	29.30 RIGHT	10.00 (PMHW)	WP-L.64	4+12.97	64.24 RIGHT	10.00 (PMHW)	WP-L.80	0+55.08	584.83 RIGHT	10.00 (PMHW)

REFER TO SHEET A141 FOR "Architectural Railing, Type B, Lower Deck w/LED" RAIL LOCATIONS AND MOUNTING DETAILS. COORDINATE WITH ENLARGED DECK JOINT PLANS ON SHEETS A115 - A117 & A120.

REFER TO SHEET A130 AND A131 FOR LOWER DECK DRAINAGE PLAN AND SLEEPER LAYOUT PLAN.

"Ipe Wood Deck, Upper Deck EAST OF EXPANSION JOINT AT PIER B3
2 1/2" DEEP X 5 1/2" WIDE STRUCTURAL IPE DECK WITH STAINLESS STEEL FASTENERS OVER;
1 1/2" X 5 1/2" SLEEPERS (SPACED PER PLANS) SECURED TO STRUCTURAL GIRDER CROSS-FRAMING OVER;
COORDINATE WITH STRUCTURAL DRAWINGS

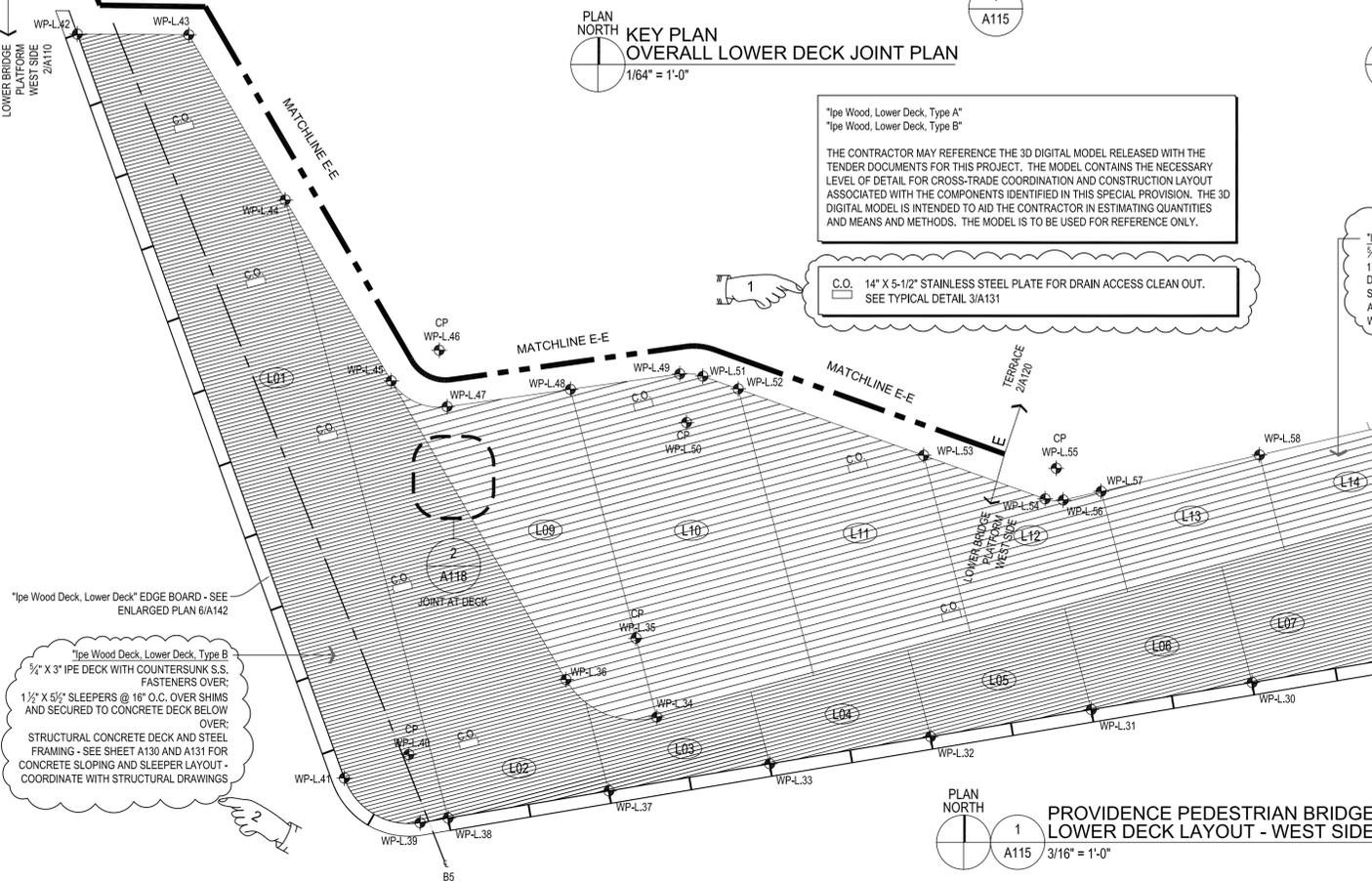


"Ipe Wood, Lower Deck, Type A"
"Ipe Wood, Lower Deck, Type B"

THE CONTRACTOR MAY REFERENCE THE 3D DIGITAL MODEL RELEASED WITH THE TENDER DOCUMENTS FOR THIS PROJECT. THE MODEL CONTAINS THE NECESSARY LEVEL OF DETAIL FOR CROSS-TRADE COORDINATION AND CONSTRUCTION LAYOUT ASSOCIATED WITH THE COMPONENTS IDENTIFIED IN THIS SPECIAL PROVISION. THE 3D DIGITAL MODEL IS INTENDED TO AID THE CONTRACTOR IN ESTIMATING QUANTITIES AND MEANS AND METHODS. THE MODEL IS TO BE USED FOR REFERENCE ONLY.

C.O. 14" X 5-1/2" STAINLESS STEEL PLATE FOR DRAIN ACCESS CLEAN OUT. SEE TYPICAL DETAIL 3/A131

"Ipe Wood Deck, Lower Deck, Type A"
3/4" X 5 1/2" IPE DECK WITH COUNTERSUNK S.S. FASTENERS OVER;
1 1/2" X 5 1/2" SLEEPERS @ 16" O.C. OVER SHIMS AND SECURED TO CONCRETE DECK BELOW OVER;
STRUCTURAL CONCRETE DECK AND STEEL FRAMING - SEE SHEET A130 AND A131 FOR CONCRETE SLOPING AND SLEEPER LAYOUT - COORDINATE WITH STRUCTURAL DRAWINGS



"Ipe Wood Deck, Lower Deck, Type B"
3/4" X 5 1/2" IPE DECK WITH COUNTERSUNK S.S. FASTENERS OVER;
1 1/2" X 5 1/2" SLEEPERS @ 16" O.C. OVER SHIMS AND SECURED TO CONCRETE DECK BELOW OVER;
STRUCTURAL CONCRETE DECK AND STEEL FRAMING - SEE SHEET A130 AND A131 FOR CONCRETE SLOPING AND SLEEPER LAYOUT - COORDINATE WITH STRUCTURAL DRAWINGS

NOTE - ALL ELEVATIONS REFER TO PROVIDENCE MEAN HIGH WATER (PMHW) DATUM = 0.0'
PROVIDENCE MEAN HIGH WATER (PMHW) = +1.54 NAVD 1988

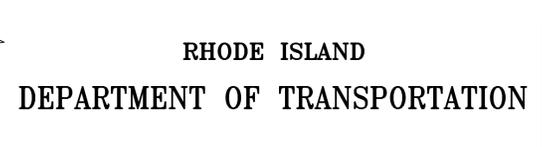
NOTE - STATION LINE RUNS PERPENDICULAR TO EXISTING PIERS - ORIGIN AT INTERSECTION OF TRANSVERSE AND LONGITUDINAL MIDPOINT OF PIER B5

2 1/2" DEEP X 5 1/2" WIDE STRUCTURAL IPE DECK WITH STAINLESS STEEL FASTENERS OVER;
1 1/2" X 5 1/2" SLEEPERS (SPACED PER PLANS) SECURED TO STRUCTURAL GIRDER CROSS-FRAMING OVER;
STRUCTURAL STEEL PLATE GIRDERS COORDINATE WITH STRUCTURAL DRAWINGS

SYMBOL LEGEND
(L01) DECK PANEL DESIGNATION - REFER TO SHEETS A115 - A118 FOR IPE DECK PANEL WORK POINTS AND DIMENSIONS CORRESPONDING WITH NUMERIC IDENTIFICATION.

ADDENDUM NO. 9

REF DWG #	REFERENCE DRAWING NAME

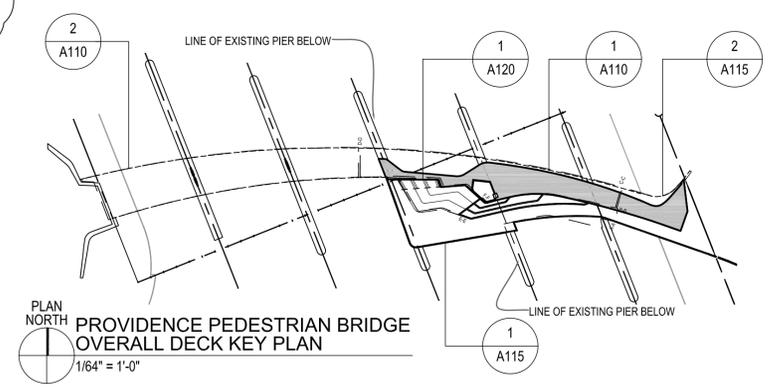


DESIGNED BY:
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SHEET: V2_013
OF: V2_163

SCALE:

REVISIONS			REVISIONS		
NO.	DATE	BY	NO.	DATE	BY
1	6/14/2016	CL			
2	7/8/2016	CL			

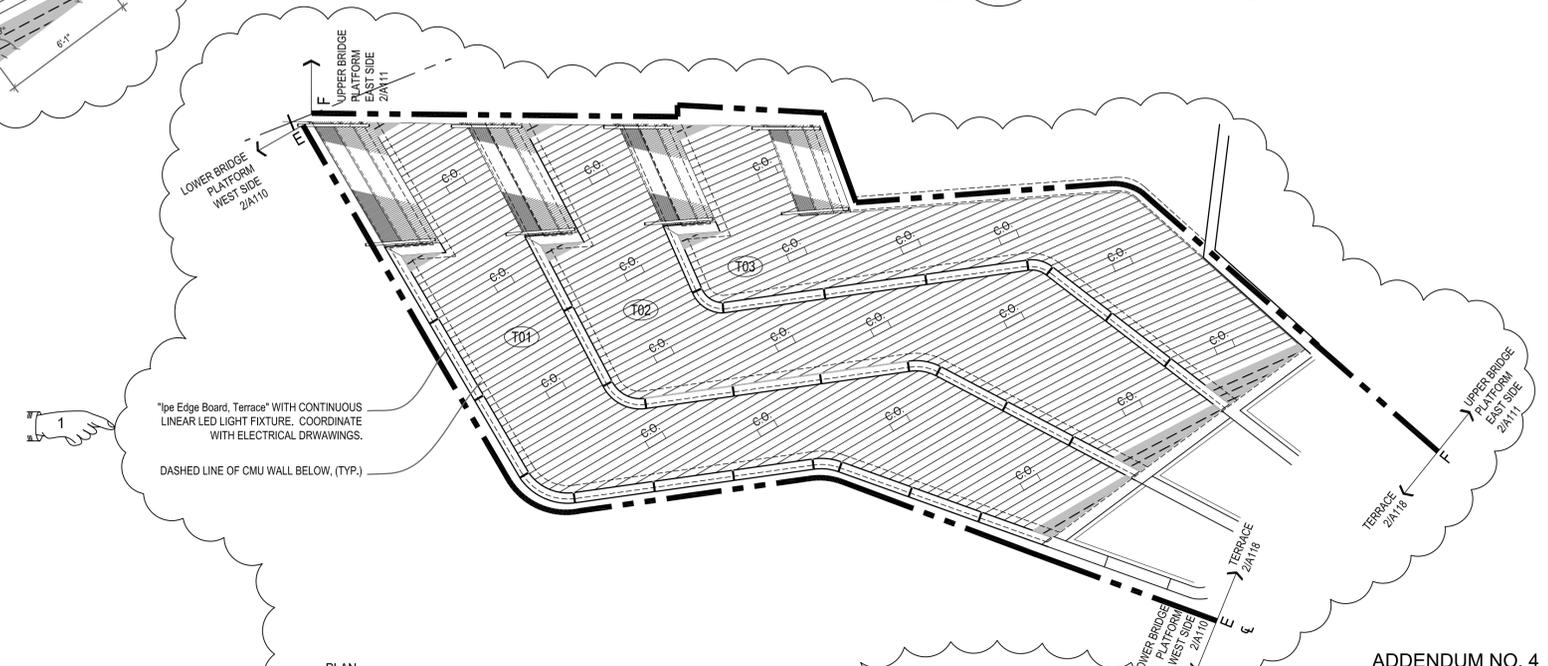
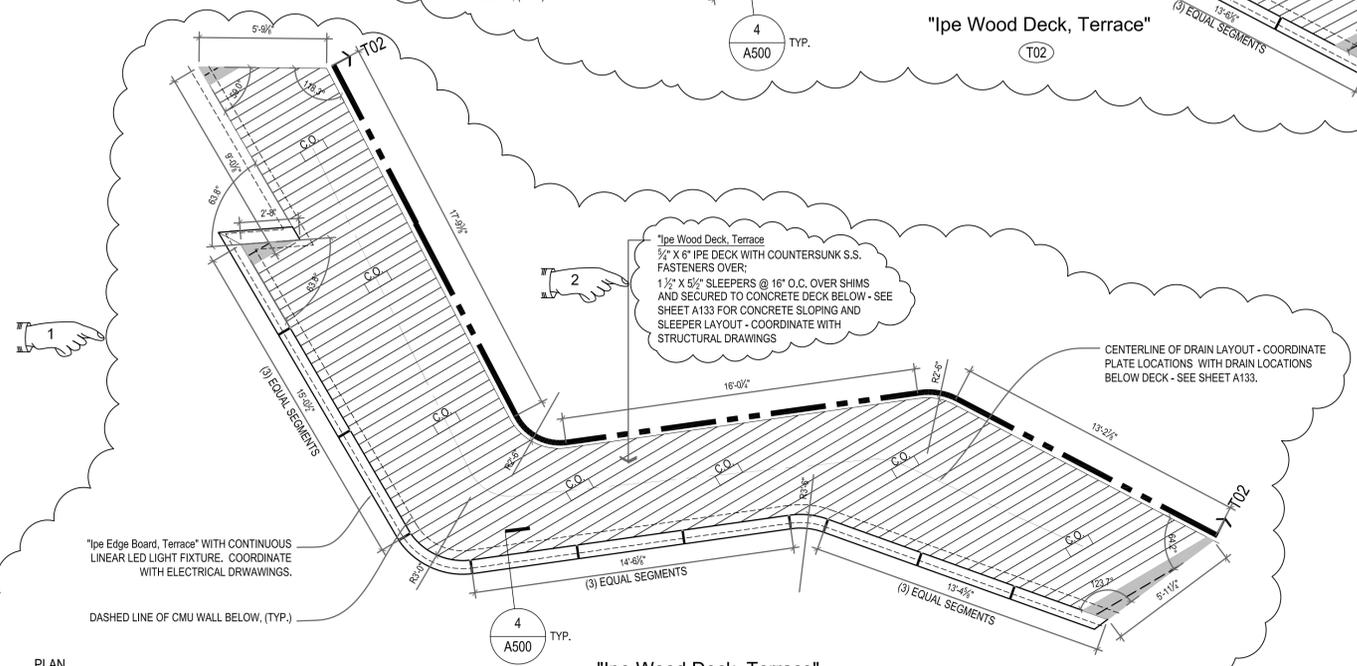
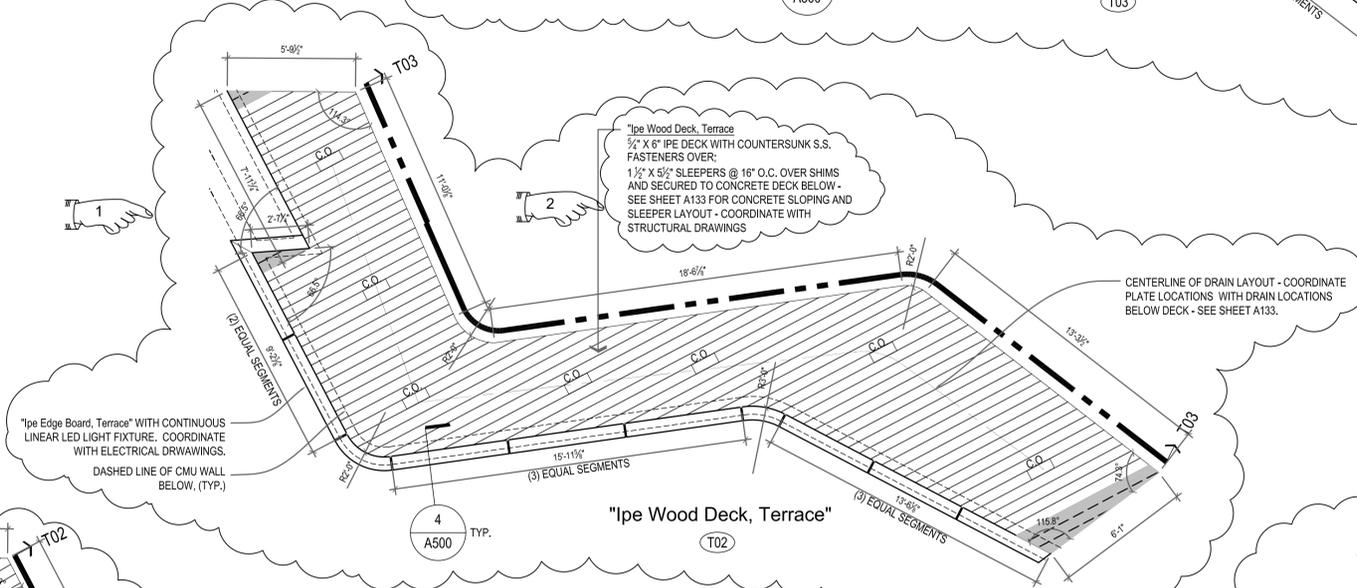
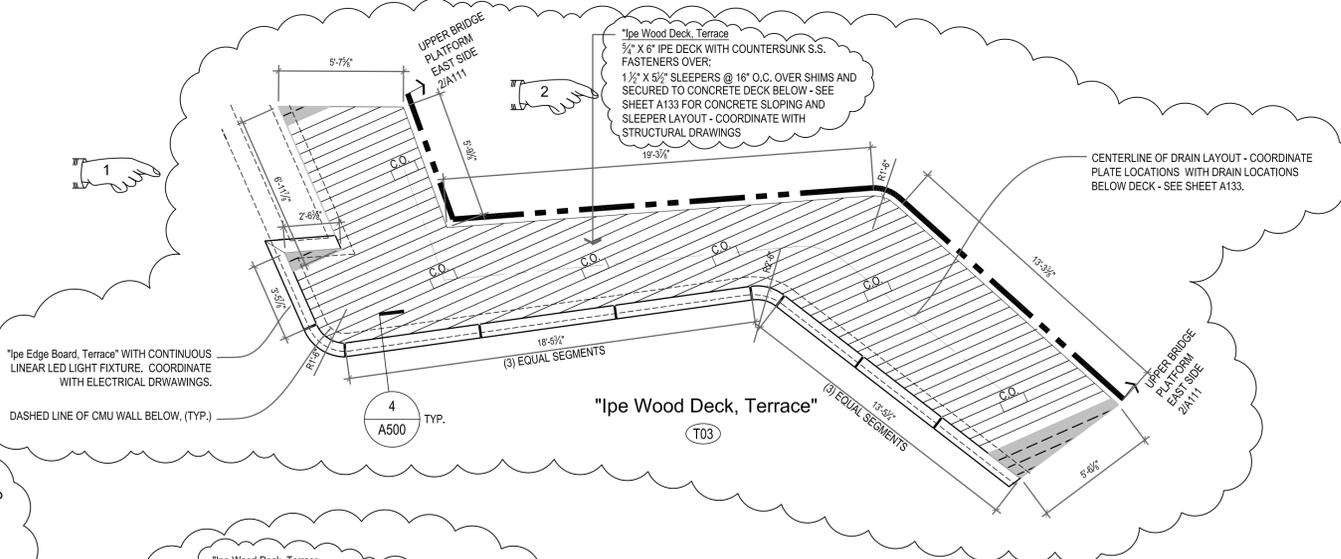
IMPROVEMENTS TO INTERSTATE ROUTE 195
CONTRACT 16 VOLUME 2
PROVIDENCE
OVERALL LOWER DECK ENLARGED DECK JOINT PLANS
RHODE ISLAND
A115



----- 1/8" ROUTED GROOVE
 █ CUSTOM IPE BOARD AT EDGE OF DECKING

DIMENSION & ANGLE FOR ALL IPE PERIMETER EDGE BOARDS TO BE COORDINATED WITH 3D DIGITAL MODEL ISSUED AS PART OF THIS CONSTRUCTION DOCUMENT PACKAGE

C.O. 14" X 5-1/2" STAINLESS STEEL PLATE FOR DRAIN ACCESS CLEAN OUT. SEE TYPICAL DETAIL 3/A131.



PLAN NORTH
 2 TERRACE DECK LAYOUT
 A120 1/4" = 1'-0"

PLAN NORTH
 1 PROVIDENCE PEDESTRIAN BRIDGE TERRACE DECK LAYOUT
 A120 3/16" = 1'-0"

ADDENDUM NO. 4

REF. DWG #	REFERENCE DRAWING NAME
S701	ELEVATED PLANTER DETAILS
S704	TERRACE WALL DETAILS - 2



RHODE ISLAND
 DEPARTMENT OF TRANSPORTATION

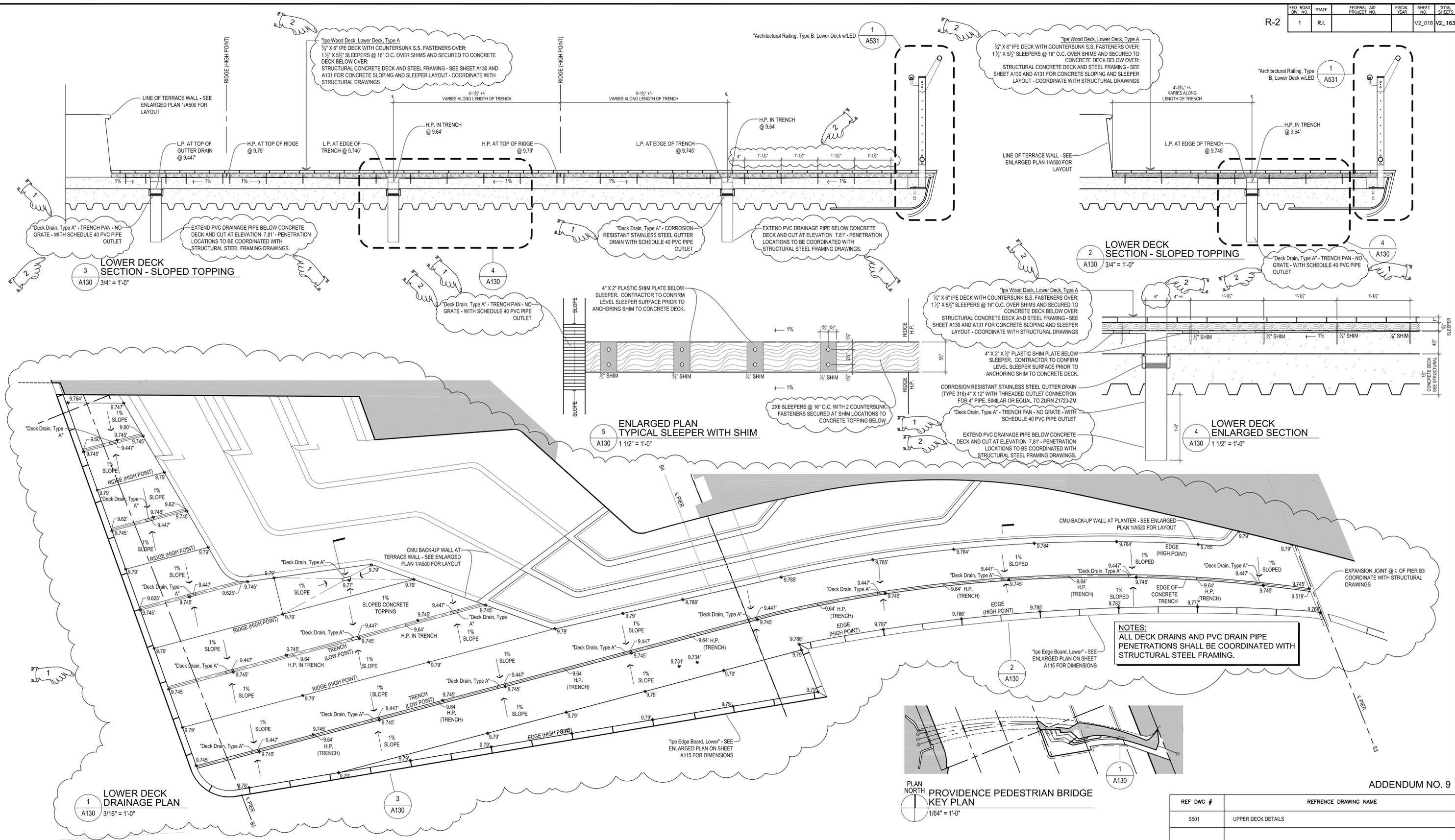


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 DATE:
 SHEET: V2_017
 OF: V2_163

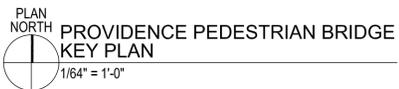
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NO.	DATE	BY	NO.	DATE	BY
1	6/14/2016	CL			
2	7/8/2016	CL			

IMPROVEMENTS TO
 INTERSTATE ROUTE 195
 CONTRACT 16 VOLUME 2
 OVERALL TERRACE DECK ENLARGED DECK JOINT PLANS
 A120



NOTES:
 ALL DECK DRAINS AND PVC DRAIN PIPE PENETRATIONS SHALL BE COORDINATED WITH STRUCTURAL STEEL FRAMING.



ADDENDUM NO. 9

REF DWG #	REFERENCE DRAWING NAME
S501	UPPER DECK DETAILS



RHODE ISLAND DEPARTMENT OF TRANSPORTATION

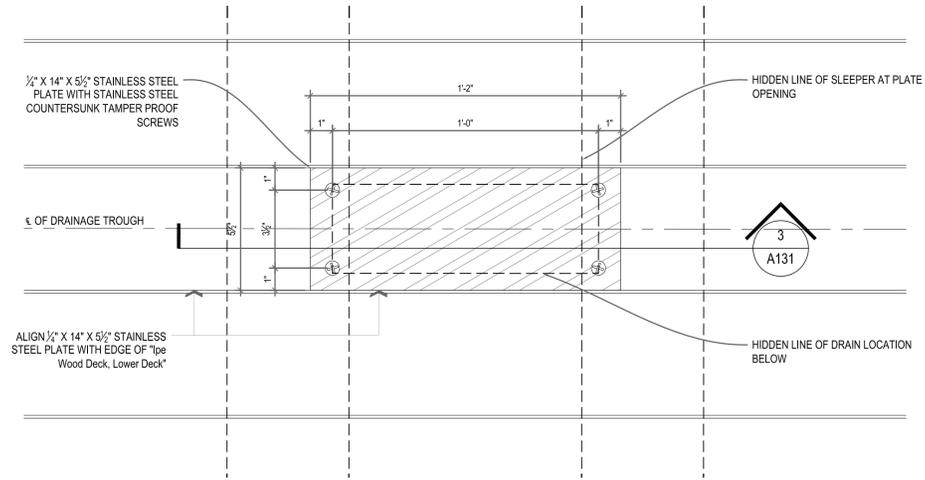


DESIGNED BY:
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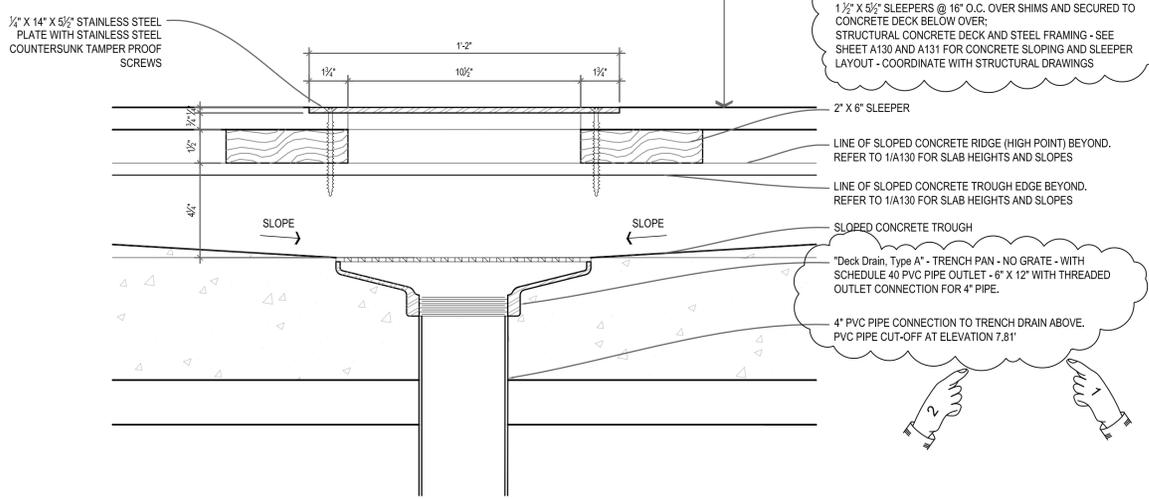
SCALE:

REVISIONS			REVISIONS		
NO.	DATE	BY	NO.	DATE	BY
1	6/21/2016	CL			
2	7/8/2016	CL			

IMPROVEMENTS TO INTERSTATE ROUTE 195 CONTRACT 16 VOLUME 2 RHODE ISLAND
 LOWER DECK DRAINAGE PLAN AND SECTIONS A130



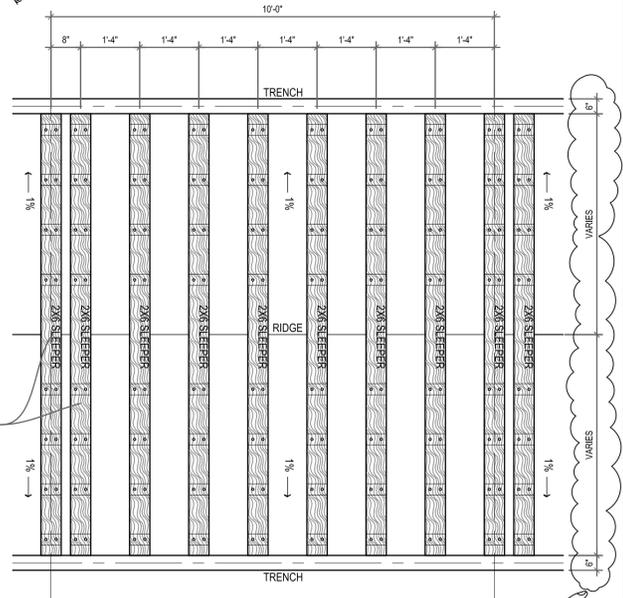
4 ENLARGED PLAN - TYPICAL STAINLESS STEEL GUTTER DRAIN CLEANOUT
 A131 3" = 1'-0"



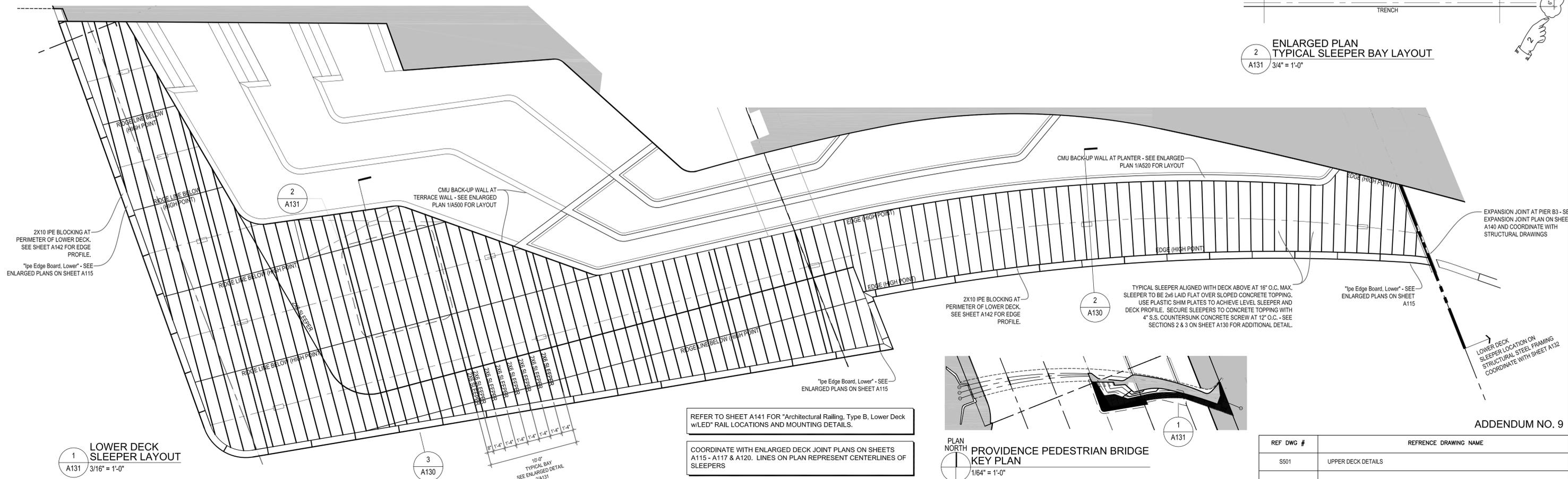
3 ENLARGED SECTION - TYPICAL STAINLESS STEEL GUTTER DRAIN CLEANOUT
 A131 3" = 1'-0"

"Ipe Wood Deck, Lower Deck, Type A"
 3/4" x 6" IPE DECK WITH COUNTERSUNK S.S. FASTENERS OVER:
 1 1/2" x 5/8" SLEEPERS @ 16" O.C. OVER SHIMS AND SECURED TO
 CONCRETE DECK BELOW OVER;
 STRUCTURAL CONCRETE DECK AND STEEL FRAMING - SEE
 SHEET A130 AND A131 FOR CONCRETE SLOPING AND SLEEPER
 LAYOUT - COORDINATE WITH STRUCTURAL DRAWINGS

"Deck Drain, Type A" - TRENCH PAN - NO GRATE - WITH
 SCHEDULE 40 PVC PIPE OUTLET - 6" x 12" WITH THREADED
 OUTLET CONNECTION FOR 4" PIPE.
 4" PVC PIPE CONNECTION TO TRENCH DRAIN ABOVE.
 PVC PIPE CUT-OFF AT ELEVATION 7.81'

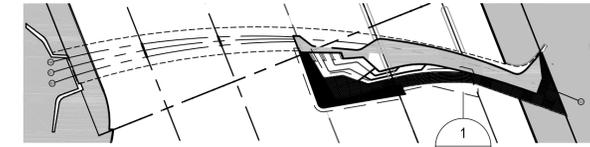


2 ENLARGED PLAN TYPICAL SLEEPER BAY LAYOUT
 A131 3/4" = 1'-0"



1 LOWER DECK SLEEPER LAYOUT
 A131 3/16" = 1'-0"

2 A130
 TYPICAL SLEEPER ALIGNED WITH DECK ABOVE AT 16" O.C. MAX. SLEEPER TO BE 2x6 LAID FLAT OVER SLOPED CONCRETE TOPPING. USE PLASTIC SHIM PLATES TO ACHIEVE LEVEL SLEEPER AND DECK PROFILE. SECURE SLEEPERS TO CONCRETE TOPPING WITH 4" S.S. COUNTERSUNK CONCRETE SCREW AT 12" O.C. - SEE SECTIONS 2 & 3 ON SHEET A130 FOR ADDITIONAL DETAIL.



1 A131
 PLAN NORTH PROVIDENCE PEDESTRIAN BRIDGE KEY PLAN
 1/64" = 1'-0"

REF DWG #	REFERENCE DRAWING NAME
S501	UPPER DECK DETAILS



RHODE ISLAND
 DEPARTMENT OF TRANSPORTATION



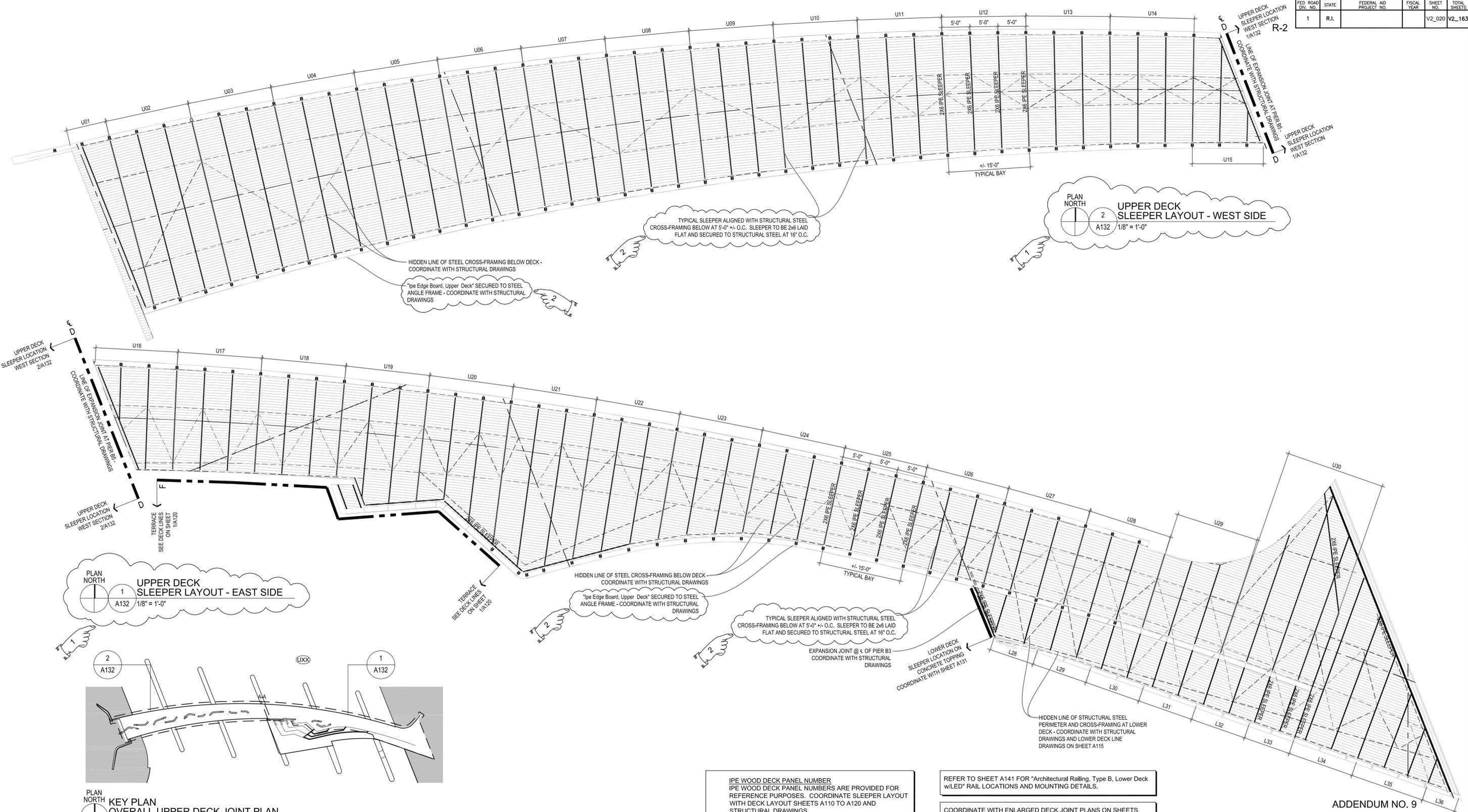
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 SHEET: V2_019
 OF: V2_163

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1	6/21/2016	CL			
2	7/8/2016	CL			

IMPROVEMENTS TO INTERSTATE ROUTE 195
 CONTRACT 16 VOLUME 2
 PROVIDENCE RHODE ISLAND
 LOWER DECK SLEEPER LAYOUT
 A131

FED. ROAD DIV. NO.	STATE	FEDERAL AID PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
1	R.I.			V2_020	V2_163



IPE WOOD DECK PANEL NUMBER
 IPE WOOD DECK PANEL NUMBERS ARE PROVIDED FOR REFERENCE PURPOSES. COORDINATE SLEEPER LAYOUT WITH DECK LAYOUT SHEETS A110 TO A120 AND STRUCTURAL DRAWINGS.

REFER TO SHEET A141 FOR "Architectural Railing, Type B, Lower Deck w/LED" RAIL LOCATIONS AND MOUNTING DETAILS.

COORDINATE WITH ENLARGED DECK JOINT PLANS ON SHEETS A115 - A117 & A120. LINES ON PLAN REPRESENT CENTERLINES OF IPE SLEEPERS



RHODE ISLAND DEPARTMENT OF TRANSPORTATION

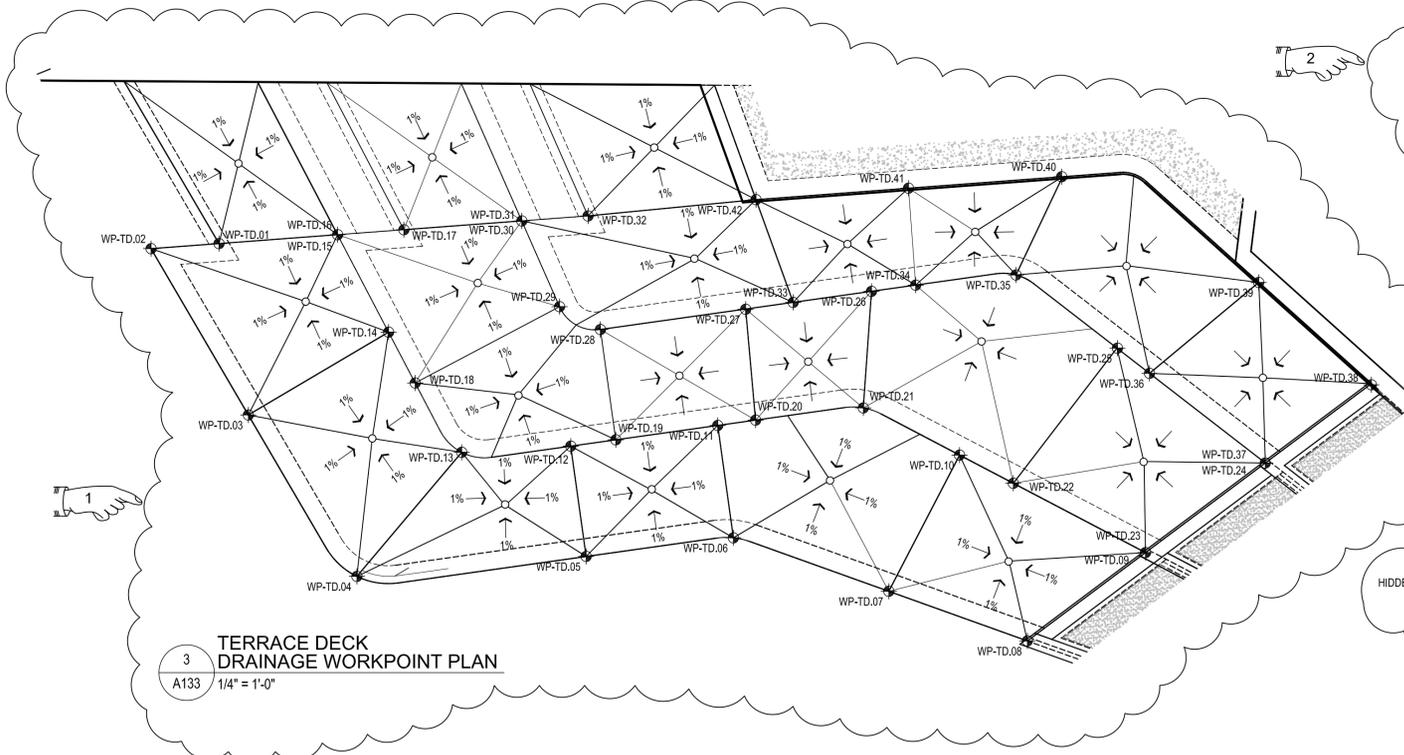


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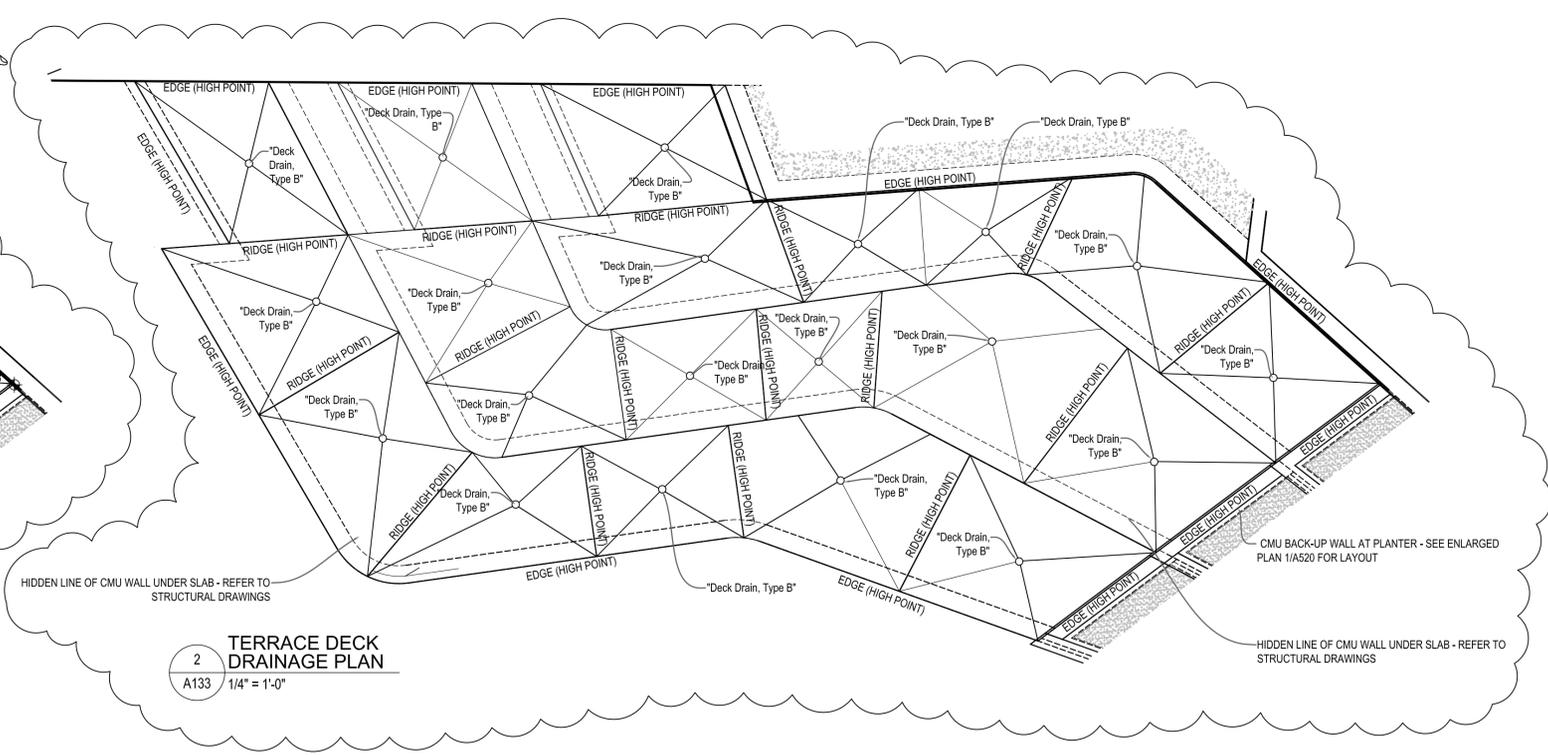
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REVISIONS			REVISIONS		
NO.	DATE	BY	NO.	DATE	BY
1	6/14/2016	CL			
2	7/8/2016	CL			

IMPROVEMENTS TO INTERSTATE ROUTE 195
 CONTRACT 16 VOLUME 2
 PROVIDENCE RHODE ISLAND
 UPPER AND PARTIAL LOWER DECK SLEEPER LAYOUT
 A132

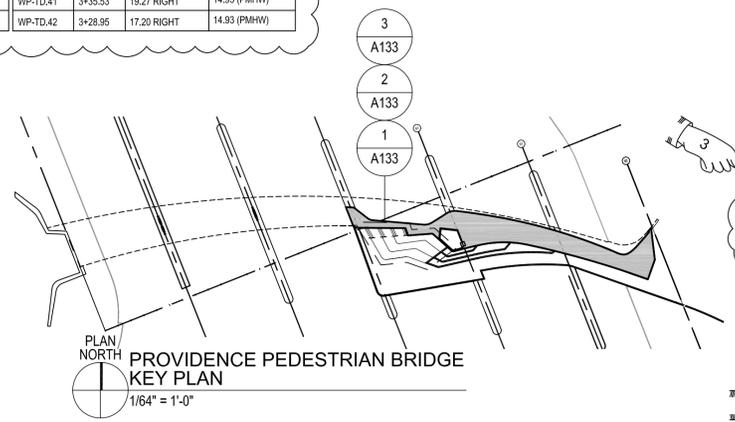


3
 A133
 1/4" = 1'-0"

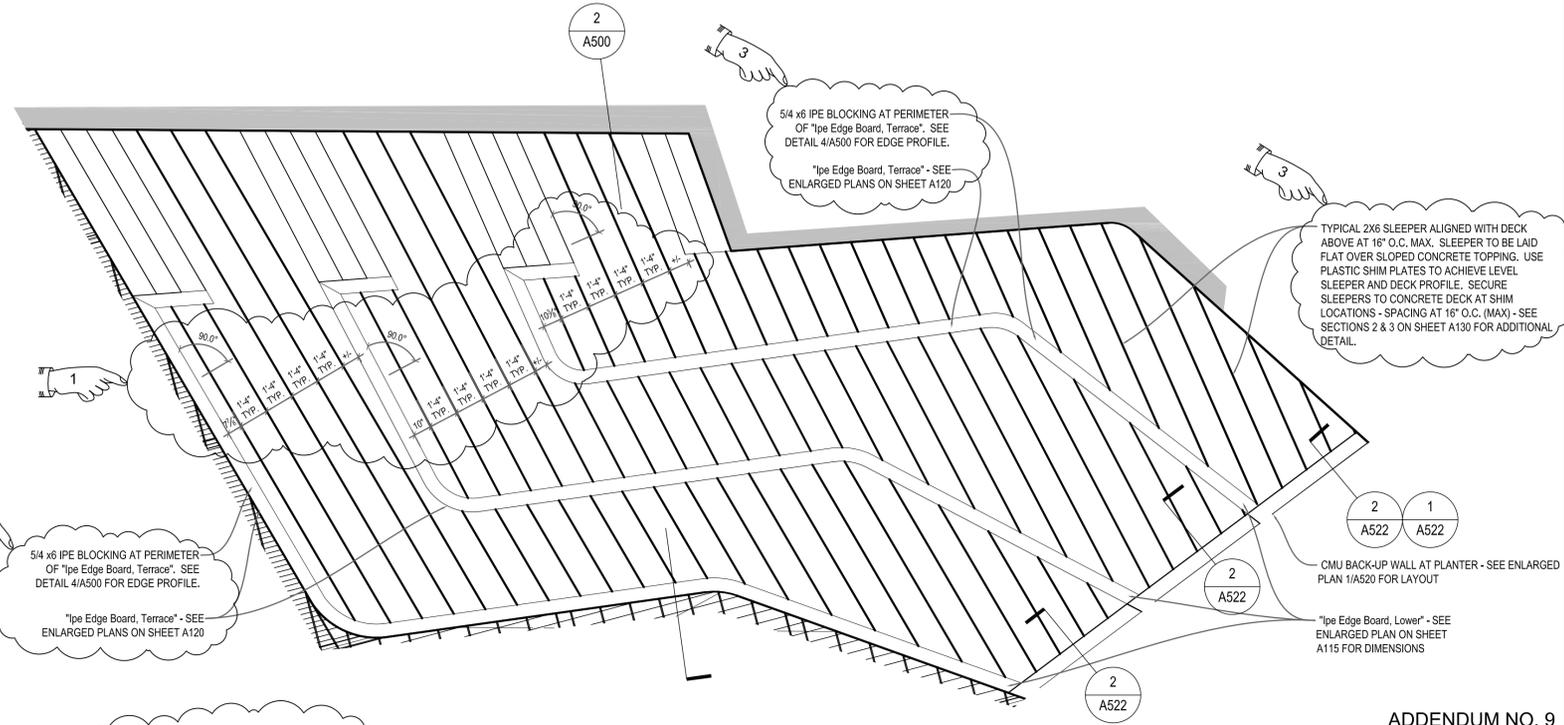


2
 A133
 1/4" = 1'-0"

WORK POINT	Terrace Deck			WORK POINT	Terrace Deck			WORK POINT	Terrace Deck		
	STATION	STATION OFFSET	ELEVATION		STATION	STATION OFFSET	ELEVATION		STATION	STATION OFFSET	ELEVATION
WP-TD.1	3+05.70	10.09 RIGHT	11.50 (PMHW)	WP-TD.15	3+10.82	11.70 RIGHT	11.50 (PMHW)	WP-TD.29	3+18.94	18.40 RIGHT	13.22 (PMHW)
WP-TD.2	3+02.77	09.17 RIGHT	11.50 (PMHW)	WP-TD.16	3+10.82	11.70 RIGHT	13.22 (PMHW)	WP-TD.30	3+18.77	14.19 RIGHT	13.22 (PMHW)
WP-TD.3	3+04.09	17.73 RIGHT	11.50 (PMHW)	WP-TD.17	3+13.68	12.59 RIGHT	13.22 (PMHW)	WP-TD.31	3+18.77	14.19 RIGHT	14.93 (PMHW)
WP-TD.4	3+05.97	26.28 RIGHT	11.50 (PMHW)	WP-TD.18	3+11.62	19.18 RIGHT	13.22 (PMHW)	WP-TD.32	3+21.63	15.09 RIGHT	14.93 (PMHW)
WP-TD.5	3+15.91	29.26 RIGHT	11.50 (PMHW)	WP-TD.19	3+19.09	24.89 RIGHT	13.22 (PMHW)	WP-TD.33	3+28.80	22.11 RIGHT	14.93 (PMHW)
WP-TD.6	3+22.39	30.94 RIGHT	11.50 (PMHW)	WP-TD.20	3+25.27	26.40 RIGHT	13.22 (PMHW)	WP-TD.34	3+34.22	23.43 RIGHT	14.93 (PMHW)
WP-TD.7	3+28.02	35.76 RIGHT	11.50 (PMHW)	WP-TD.21	3+29.99	27.68 RIGHT	13.22 (PMHW)	WP-TD.35	3+38.60	24.68 RIGHT	14.93 (PMHW)
WP-TD.8	3+33.01	40.14 RIGHT	11.50 (PMHW)	WP-TD.22	3+35.03	33.32 RIGHT	13.22 (PMHW)	WP-TD.36	3+42.56	31.01 RIGHT	14.93 (PMHW)
WP-TD.9	3+39.43	38.42 RIGHT	11.50 (PMHW)	WP-TD.23	3+39.43	38.42 RIGHT	13.22 (PMHW)	WP-TD.37	3+45.93	36.68 RIGHT	14.93 (PMHW)
WP-TD.10	3+33.25	31.25 RIGHT	11.50 (PMHW)	WP-TD.24	3+45.93	36.68 RIGHT	13.22 (PMHW)	WP-TD.38	3+51.70	35.13 RIGHT	14.93 (PMHW)
WP-TD.11	3+23.60	25.99 RIGHT	11.50 (PMHW)	WP-TD.25	3+41.62	29.41 RIGHT	13.22 (PMHW)	WP-TD.39	3+48.65	29.03 RIGHT	14.93 (PMHW)
WP-TD.12	3+17.09	24.40 RIGHT	11.50 (PMHW)	WP-TD.26	3+32.27	22.95 RIGHT	13.22 (PMHW)	WP-TD.40	3+42.18	21.35 RIGHT	14.93 (PMHW)
WP-TD.13	3+12.42	22.84 RIGHT	11.50 (PMHW)	WP-TD.27	3+26.70	21.60 RIGHT	13.22 (PMHW)	WP-TD.41	3+35.53	19.27 RIGHT	14.93 (PMHW)
WP-TD.14	3+11.35	16.61 RIGHT	11.50 (PMHW)	WP-TD.28	3+20.27	20.03 RIGHT	13.22 (PMHW)	WP-TD.42	3+28.95	17.20 RIGHT	14.93 (PMHW)

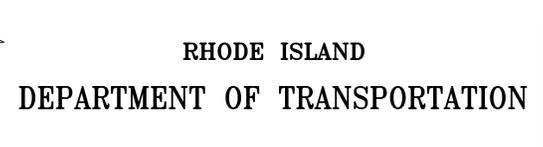


1
 A133
 1/64" = 1'-0"



1
 A133
 1/4" = 1'-0"

REF DWG #	REFERENCE DRAWING NAME
S501	UPPER DECK DETAILS

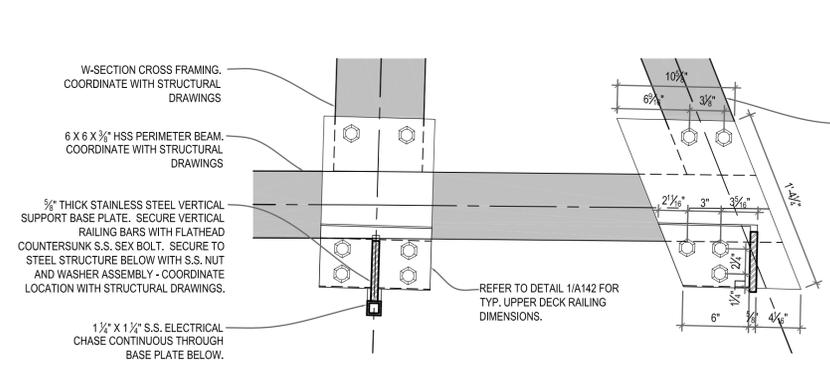


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 SHEET: V2_021
 OF: V2_163

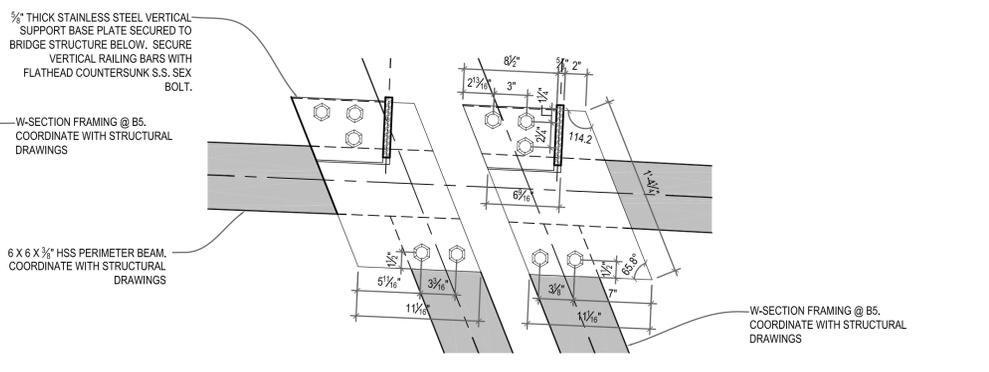
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1	6/14/2016	CL			
2	6/21/2016	CL			
3	7/8/2016	CL			

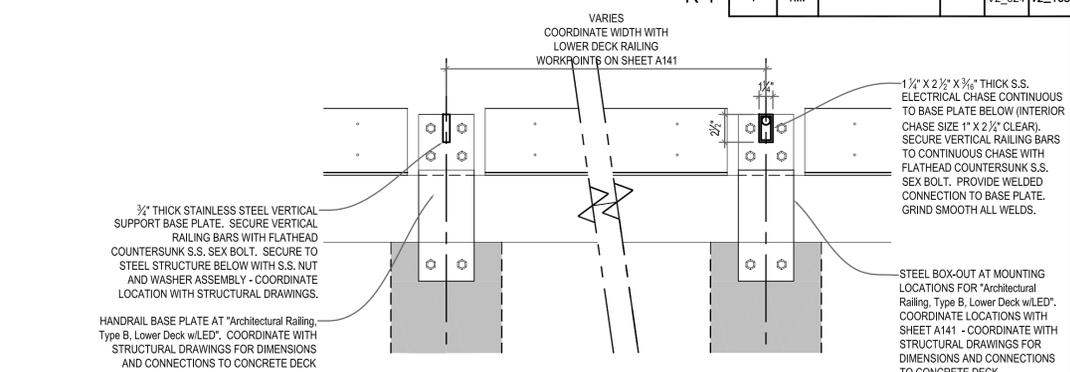
IMPROVEMENTS TO INTERSTATE ROUTE 195 CONTRACT 16 VOLUME 2
 PROVIDENCE RHODE ISLAND
 TERRACE DECK DRAINAGE SLEEPER PLAN AND SECTIONS
 A133



11
A142 1 1/2" = 1'-0"
"Architectural Railing, Type A, Upper Deck w/LED
ENLARGED PLAN - TOP OF STEEL @ B5 (SOUTH)

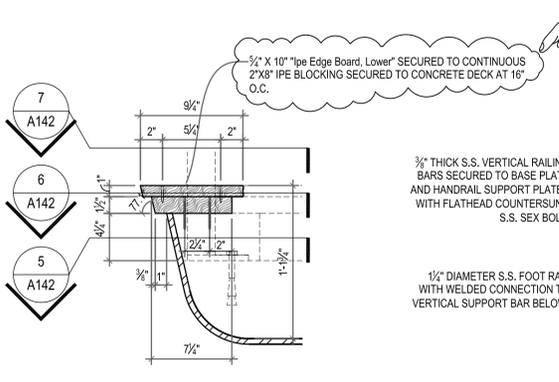


10
A142 1 1/2" = 1'-0"
"Architectural Railing, Type A, Upper Deck w/LED
ENLARGED PLAN - TOP OF STEEL @ B5

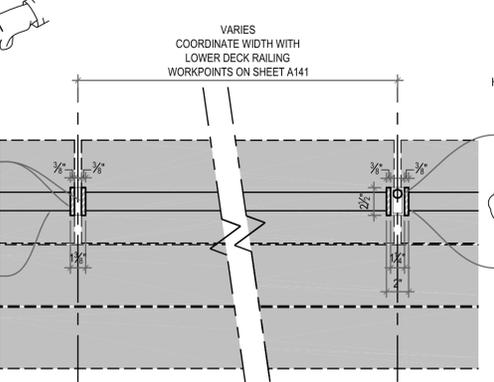


9
A142 1 1/2" = 1'-0"
"Architectural Railing, Type B, Lower Deck w/LED
ENLARGED PLAN - TOP OF STEEL

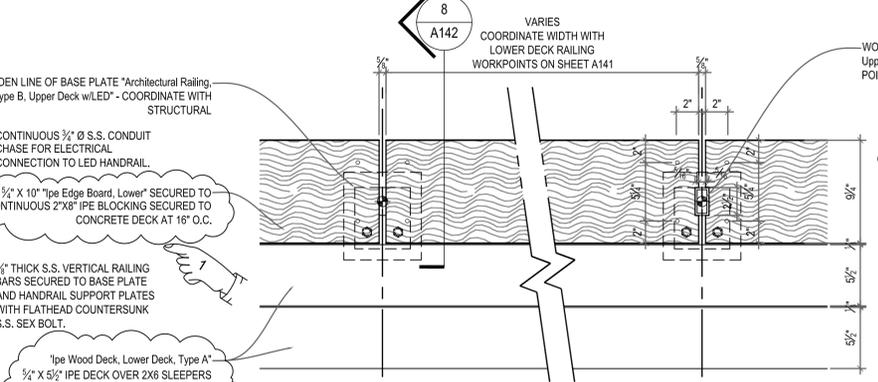
DETAILS AT EXPANSION JOINTS



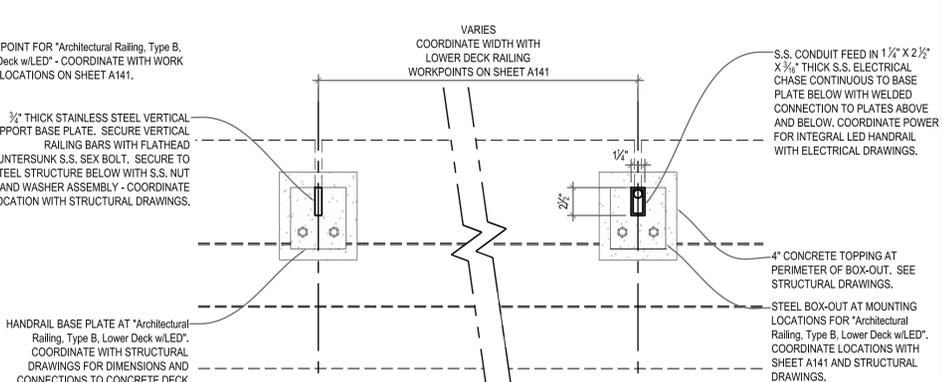
8
A142 1 1/2" = 1'-0"
"Ipe Edge Board, Lower"
ENLARGED SECTION



7
A142 1 1/2" = 1'-0"
"Architectural Railing, Type B, Lower Deck w/LED
ENLARGED PLAN - TOP OF DECK

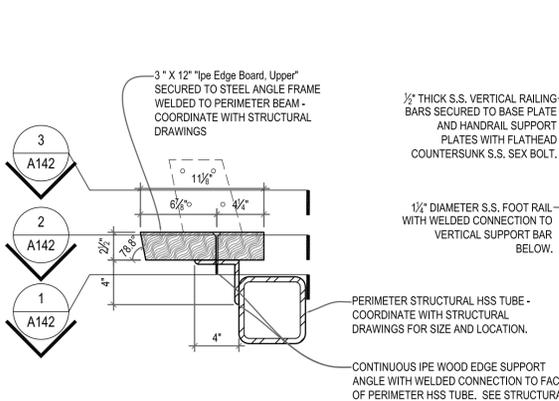


6
A142 1 1/2" = 1'-0"
"Ipe Wood Deck, Lower Deck"
ENLARGED PLAN - EXTERIOR EDGE BOARD

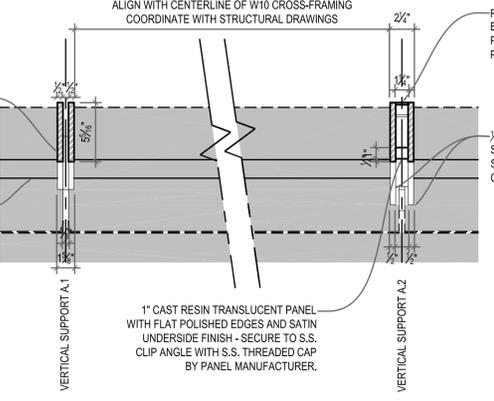


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A142 1 1/2" = 1'-0"
"Architectural Railing, Type B, Lower Deck w/LED
ENLARGED PLAN - TOP OF CONCRETE

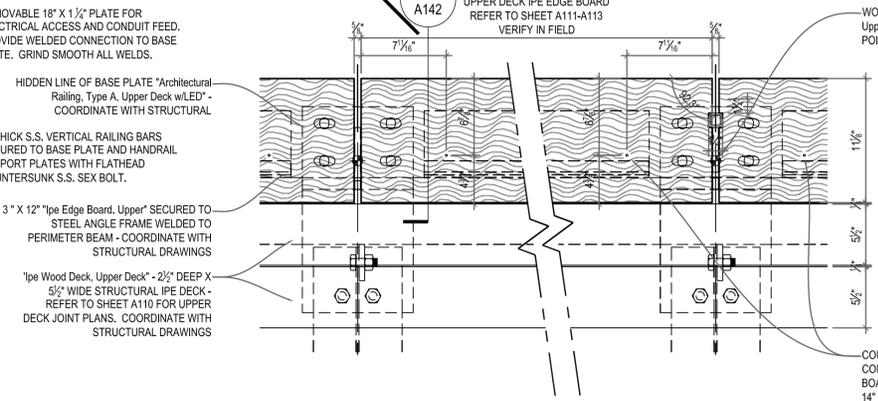
DETAILS AT LOWER DECK



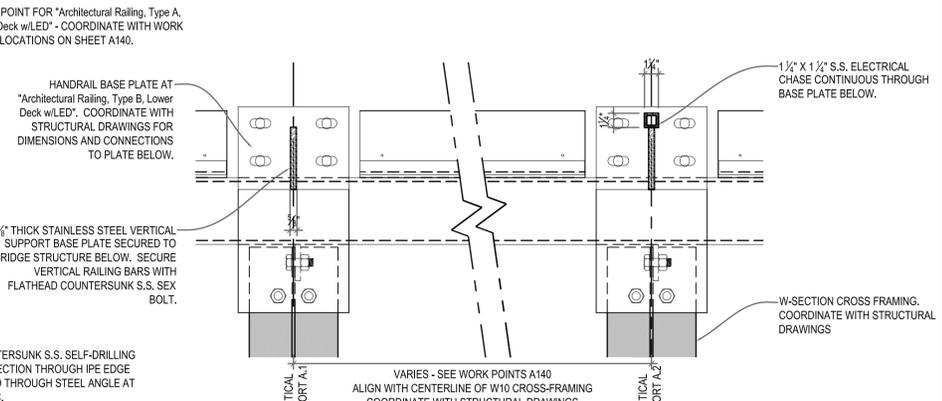
4
A142 1 1/2" = 1'-0"
"Ipe Edge Board, Upper"
ENLARGED SECTION



3
A142 1 1/2" = 1'-0"
"Architectural Railing, Type A, Upper Deck w/LED
ENLARGED PLAN - TOP OF DECK



2
A142 1 1/2" = 1'-0"
"Ipe Wood Deck, Upper Deck"
ENLARGED PLAN - EXTERIOR EDGE BOARD



1
A142 1 1/2" = 1'-0"
"Architectural Railing, Type A, Upper Deck w/LED
ENLARGED PLAN - TOP OF STEEL

DETAILS AT UPPER DECK

					DESIGNED BY: CHECKED: DATE: SHEET: V2_024 OF: V2_163	SCALE: REVISIONS <table border="1"> <thead> <tr> <th>NO.</th> <th>DATE</th> <th>BY</th> <th>NO.</th> <th>DATE</th> <th>BY</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>7/8/2016</td> <td>CL</td> <td></td> <td></td> <td></td> </tr> </tbody> </table>	NO.	DATE	BY	NO.	DATE	BY	1	7/8/2016	CL				IMPROVEMENTS TO INTERSTATE ROUTE 195 CONTRACT 16 VOLUME 2 PROVIDENCE RHODE ISLAND
					NO.	DATE	BY	NO.	DATE	BY									
1	7/8/2016	CL																	
ENLARGED DECK EDGE AND RAIL BASE DETAILS A142																			

MATERIAL LEGEND

- (1A) IPE WOOD DECK, UPPER DECK
- (1B) IPE WOOD DECK, TERRACE
- (1C) IPE WOOD DECK, LOWER DECK, TYPE A
- (1D) IPE WOOD DECK, LOWER DECK, TYPE B
- (2A) WANA WOOD, UPPER BRIDGE FASCIA - SOUTH
- (2B) WANA WOOD, LOWER BRIDGE FASCIA - NORTH
- (2C) WANA WOOD, LOWER BRIDGE FASCIA - SOUTH
- (2D) WANA WOOD, LOWER BRIDGE FASCIA - SOUTH
- (3A) MASONRY VENEER, BLUESTONE TILE
- (3B) MASONRY VENEER, BLUESTONE TILE, SLOPED
- (3C) MASONRY VENEER, BLUESTONE COPING
- (3D) MASONRY VENEER, BLUESTONE STEPS
- (4A) ARCHITECTURAL RAILING, TYPE A, UPPER DECK w/LED
- (4B) ARCHITECTURAL RAILING, TYPE B, LOWER DECK w/LED
- (4C) ARCHITECTURAL RAILING, TYPE C, HANDRAIL AT STEPS
- (4D) ARCHITECTURAL RAILING, TYPE D, WEST ABUTMENT w/LED
- (4E) ARCHITECTURAL RAILING, TYPE E, EAST ABUTMENT w/LED
- (4F) ARCHITECTURAL RAILING, TYPE F, HANDRAIL w/LED
- (5) RIVER WALL ON EXISTING RIP-RAP BASE (SEE VOLUME 1)
- (6) WETLAND PLANTING (SEE VOLUME 1)
- (7) EXISTING PIER FOUNDATION W/ GRANITE MASONRY VENEER
- (8) COLUMN SUPPORT - SEE STRUCTURAL DRAWINGS
- (9) ARCHITECTURAL S.S. DECORATIVE PLATE
- (10) EXPANSION JOINT COVER PLATE, STAINLESS STEEL
- (11) ARCHITECTURAL STAINLESS STEEL MESH
- (12) ARCHITECTURAL BENCH - SEE ENLARGED PLANS ON SHEET A420 - A426 TO BENCH TYPES
- (13A) IPE EDGE BOARD, UPPER
- (13B) IPE EDGE BOARD, LOWER
- (13C) IPE EDGE BOARD, TERRACE
- (14A) LINEAR UPLIGHT - SEE ELECTRICAL DRAWINGS
- (14B) PIER FLOOD LIGHT - SEE ELECTRICAL DRAWINGS
- (14C) PLANTER BOLLARD LIGHT - SEE ELECTRICAL DRAWINGS
- (15) NEW GRANITE CAP AT EXISTING COLUMNS

REFERENCE SHEET A500 - A505 FOR MATERIALS NOT LABELED ON THIS SHEET

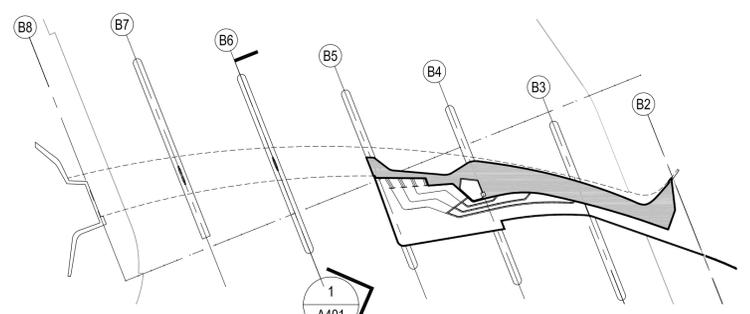
REFER TO SHEETS A140 & A141 FOR "Architectural Railing, Type A, Upper Deck w/LED" AND "Architectural Railing, Type B, Lower Deck w/LED" RAIL LOCATIONS AND MOUNTING DETAILS. COORDINATE WITH ENLARGED DECK JOINT PLANS ON SHEETS A110 - A117 & A120.

"Architectural Railing, Type D, West ABUTMENT w/LED"
 CONTRACTOR/FABRICATOR TO REFERENCE 3D DIGITAL MODEL RELEASED WITH THE TENDER DOCUMENTS FOR THE PROVIDENCE RIVER PEDESTRIAN BRIDGE PROJECT. THIS MODEL CONTAINS THE NECESSARY LEVEL OF DETAIL FOR CROSS-TRADE COORDINATION AND CONSTRUCTION LAYOUT ASSOCIATED WITH THE ARCHITECTURAL COMPONENTS IDENTIFIED ABOVE. THE 3D DIGITAL MODEL IS INTENDED TO AID THE CONTRACTOR IN ESTIMATING QUANTITIES AND THE DETERMINATION OF MEANS AND METHODS. THIS MODEL IS NOT TOPOGRAPHICALLY REFERENCED AND SHOULD BE USED FOR GEOMETRIC REFERENCE ONLY.

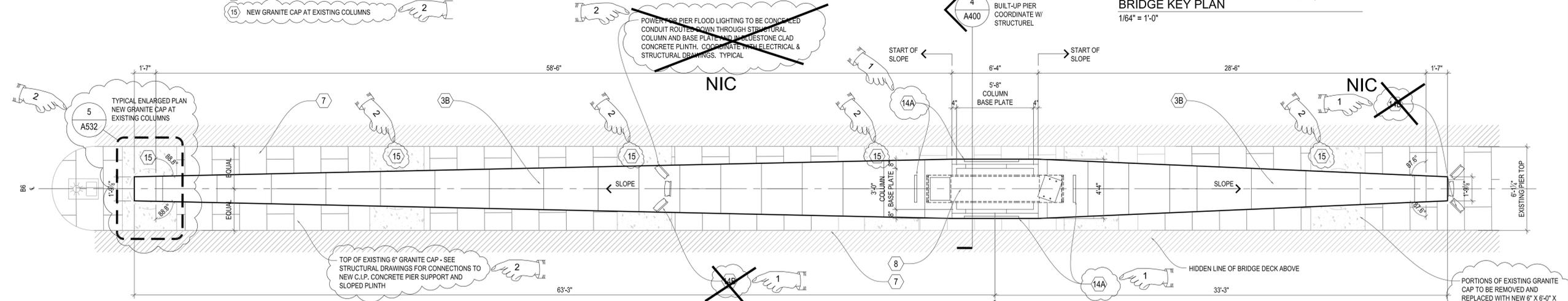
NOTE - ALL ELEVATIONS REFER TO PROVIDENCE MEAN HIGH WATER (PMHW) DATUM = 0.0'
 PROVIDENCE MEAN HIGH WATER (PMHW) = +1.54 NAVD 1988

NOTE - STATION LINE RUNS PERPENDICULAR TO EXISTING PIERS - ORIGIN AT INTERSECTION OF TRANSVERSE AND LONGITUDINAL MIDPOINT OF PIER B5

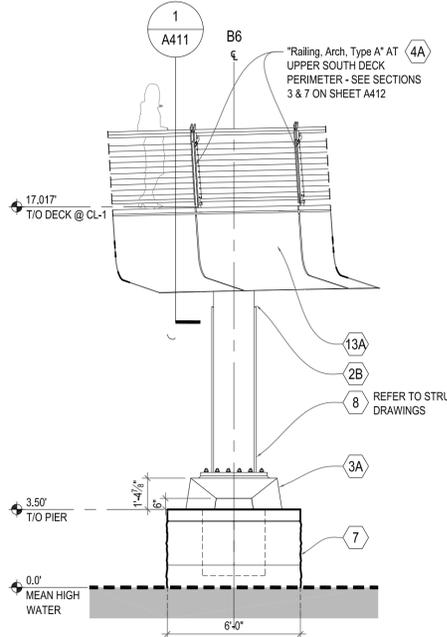
NOTE - ALL STRUCTURAL STEEL AND FASCIA SUPPORT STEEL COMPONENTS TO RECEIVE THERMAL SPRAYED ZINC COATING PER SECTION 827 AND PAINTED PER SECTION 825



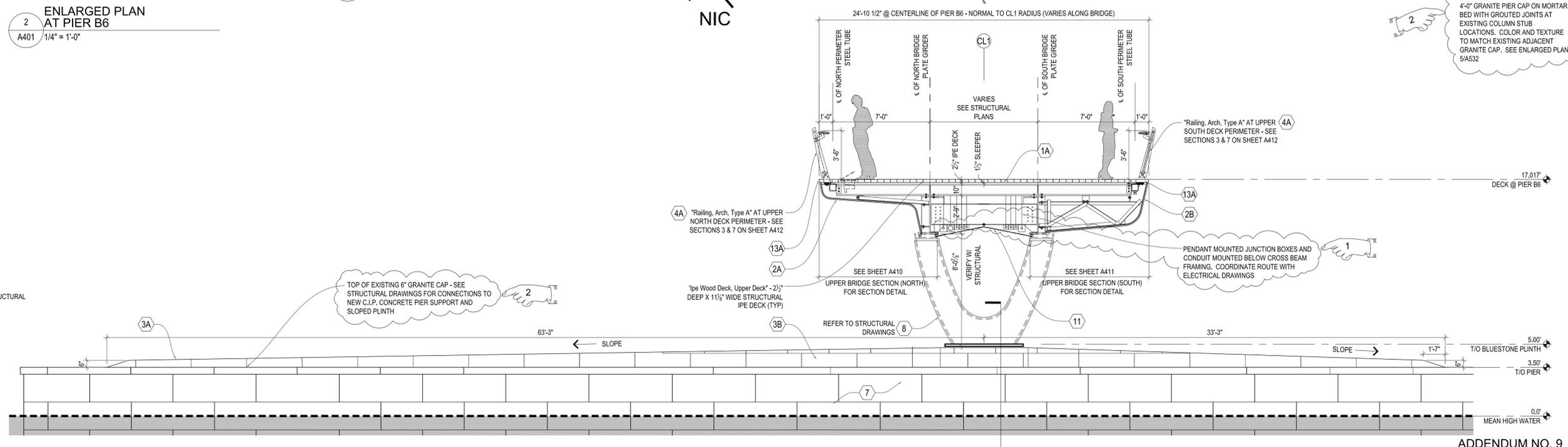
PROVIDENCE PEDESTRIAN BRIDGE KEY PLAN
 1/64" = 1'-0"



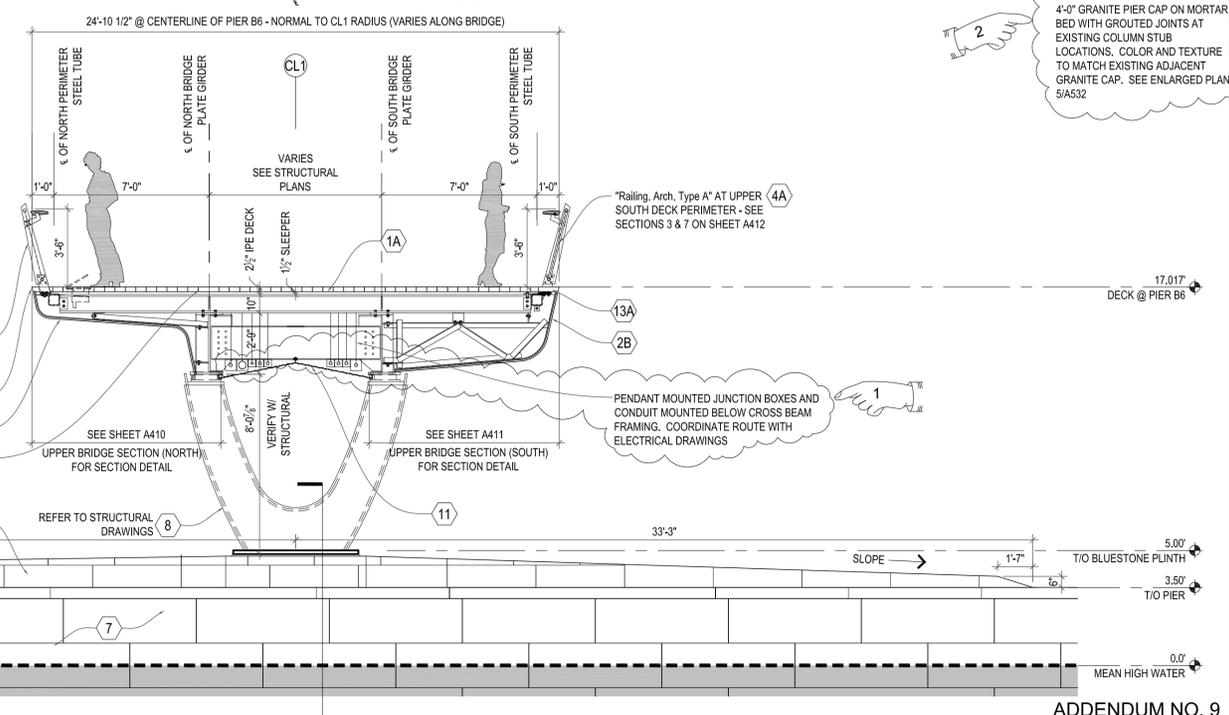
2 ENLARGED PLAN AT PIER B6
 A401 1/4" = 1'-0"



2 PARTIAL SOUTH ELEVATION AT PIER B6
 A401 1/4" = 1'-0"



1 CROSS-SECTION | ELEVATION AT PIER B6
 A401 1/4" = 1'-0"



4 TYPICAL SECTION AT BUILT-UP PIER COORDINATE W/ STRUCTURE
 A400

REF DWG #	REFERENCE DRAWING NAME

ADDENDUM NO. 9



RHODE ISLAND DEPARTMENT OF TRANSPORTATION



DESIGNED BY:
 CHECKED:
 DATE:
 SHEET: V2_032
 OF: V2_163

SCALE:

REVISIONS			REVISIONS		
NO.	DATE	BY	NO.	DATE	BY
1	6/14/2016	CL			
2	7/8/2016	CL			

IMPROVEMENTS TO INTERSTATE ROUTE 195
 CONTRACT 16 VOLUME 2
 BRIDGE SECTIONS - PIER B6
 PROVIDENCE RHODE ISLAND
 A401

MATERIAL LEGEND

- 1A IPE WOOD DECK, UPPER DECK
- 1B IPE WOOD DECK, TERRACE
- 1C IPE WOOD DECK, LOWER DECK, TYPE A
- 1D IPE WOOD DECK, LOWER DECK, TYPE B
- 2A WANA WOOD, UPPER BRIDGE FASCIA - SOUTH
- 2B WANA WOOD, LOWER BRIDGE FASCIA - NORTH
- 2C WANA WOOD, LOWER BRIDGE FASCIA - SOUTH
- 2D WANA WOOD, LOWER BRIDGE FASCIA - SOUTH
- 3A MASONRY VENEER, BLUESTONE TILE
- 3B MASONRY VENEER, BLUESTONE TILE, SLOPED
- 3C MASONRY VENEER, BLUESTONE COPING
- 3D MASONRY VENEER, BLUESTONE STEPS
- 4A ARCHITECTURAL RAILING, TYPE A, UPPER DECK w/LED
- 4B ARCHITECTURAL RAILING, TYPE B, LOWER DECK w/LED
- 4C ARCHITECTURAL RAILING, TYPE C, HANDRAIL AT STEPS
- 4D ARCHITECTURAL RAILING, TYPE D, WEST ABUTMENT w/LED
- 4E ARCHITECTURAL RAILING, TYPE E, EAST ABUTMENT w/LED
- 4F ARCHITECTURAL RAILING, TYPE F, HANDRAIL w/LED
- 5 RIVER WALL ON EXISTING RIP-RAP BASE (SEE VOLUME 1)
- 6 WETLAND PLANTING (SEE VOLUME 1)
- 7 EXISTING PIER FOUNDATION w/ GRANITE MASONRY VENEER
- 8 COLUMN SUPPORT - SEE STRUCTURAL DRAWINGS
- 9 ARCHITECTURAL S.S. DECORATIVE PLATE
- 10 EXPANSION JOINT COVER PLATE, STAINLESS STEEL
- 11 ARCHITECTURAL STAINLESS STEEL MESH
- 12 ARCHITECTURAL BENCH - SEE ENLARGED PLANS ON SHEET A420 - A426 TO BENCH TYPES
- 13A IPE EDGE BOARD, UPPER
- 13B IPE EDGE BOARD, LOWER
- 13C IPE EDGE BOARD, TERRACE
- 14A LINEAR UPLIGHT - SEE ELECTRICAL DRAWINGS
- 14B PIER FLOOD LIGHT - SEE ELECTRICAL DRAWINGS
- 14C PLANTER BOLLARD LIGHT - SEE ELECTRICAL DRAWINGS
- 15 NEW GRANITE CAP AT EXISTING COLUMNS

REFERENCE SHEET A500 - A505 FOR MATERIALS NOT LABELED ON THIS SHEET

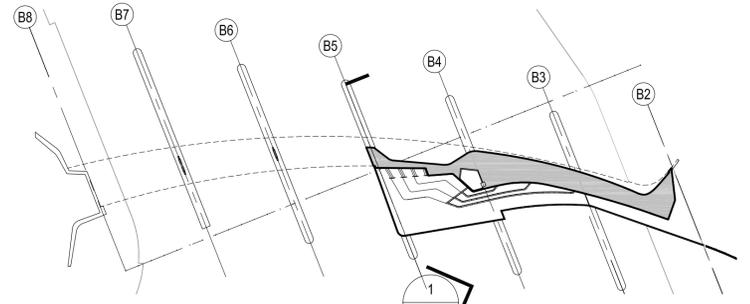
REFER TO SHEETS A140 & A141 FOR "Architectural Railing, Type A, Upper Deck w/LED" AND "Architectural Railing, Type B, Lower Deck w/LED" RAIL LOCATIONS AND MOUNTING DETAILS. COORDINATE WITH ENLARGED DECK JOINT PLANS ON SHEETS A110 - A117 & A120.

"Architectural Railing, Type A, West ABUTMENT w/LED"
 CONTRACTOR/FABRICATOR TO REFERENCE 3D DIGITAL MODEL RELEASED WITH THE TENDER DOCUMENTS FOR THE PROVIDENCE RIVER PEDESTRIAN BRIDGE PROJECT. THIS MODEL CONTAINS THE NECESSARY LEVEL OF DETAIL FOR CROSS-TRADE COORDINATION AND CONSTRUCTION LAYOUT ASSOCIATED WITH THE ARCHITECTURAL COMPONENTS IDENTIFIED ABOVE. THE 3D DIGITAL MODEL IS INTENDED TO AID THE CONTRACTOR IN ESTIMATING QUANTITIES AND THE DETERMINATION OF MEANS AND METHODS. THIS MODEL IS NOT TOPOGRAPHICALLY REFERENCED AND SHOULD BE USED FOR GEOMETRIC REFERENCE ONLY.

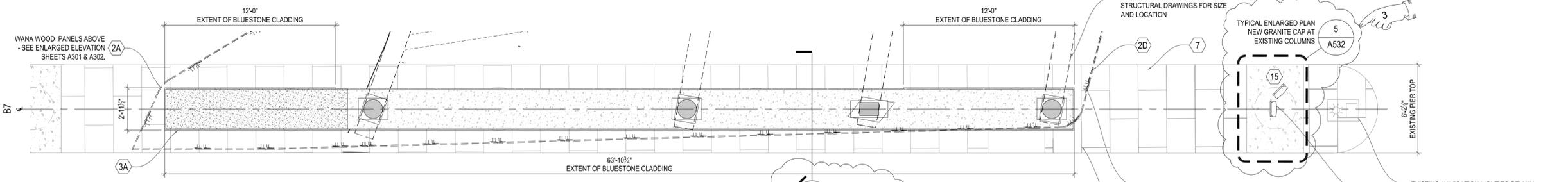
NOTE - ALL ELEVATIONS REFER TO PROVIDENCE MEAN HIGH WATER (PMHW) DATUM = 0.0'
 PROVIDENCE MEAN HIGH WATER (PMHW) = +1.54 NAVD 1988

NOTE - STATION LINE RUNS PERPENDICULAR TO EXISTING PIERS - ORIGIN AT INTERSECTION OF TRANSVERSE AND LONGITUDINAL MIDPOINT OF PIER B5

NOTE - ALL STRUCTURAL STEEL AND FASCIA SUPPORT STEEL COMPONENTS TO RECEIVE THERMAL SPRAYED ZINC COATING PER SECTION 827 AND PAINTED PER SECTION 825



PROVIDENCE PEDESTRIAN BRIDGE KEY PLAN
 1/64" = 1'-0"

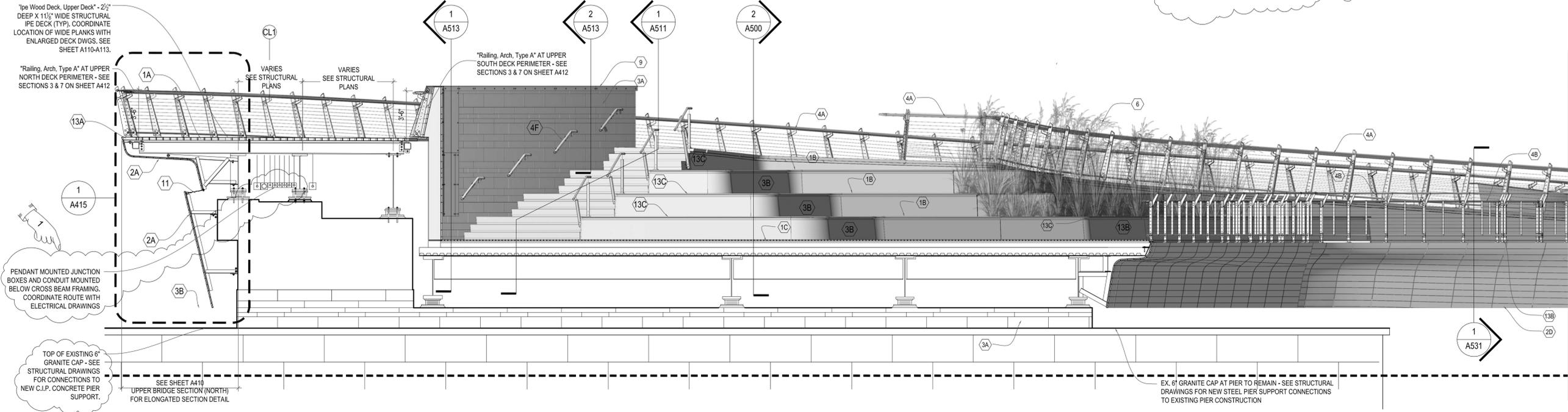


ENLARGED PLAN AT PIER B5
 A401 1/4" = 1'-0"

4 A400 SIMILAR SECTION AT BUILT-UP PIER COORDINATE W/ STRUCTURAL

STEEL ANGLE WITH CONNECTIONS TO STEEL FRAMING AND PLATE STRAP FRAME AT "Wana Wood, Lower Bridge Fascia - South". FABRICATOR TO COORDINATE WITH STRUCTURAL DRAWINGS AND "3d Digital Model".
 TOP OF EXISTING 6" GRANITE CAP - SEE STRUCTURAL DRAWINGS FOR CONNECTIONS TO NEW C.I.P. CONCRETE PIER SUPPORT.

EXISTING NAVIGATION LIGHT TO REMAIN - COORDINATE WITH ELECTRICAL DRAWINGS
 NIC

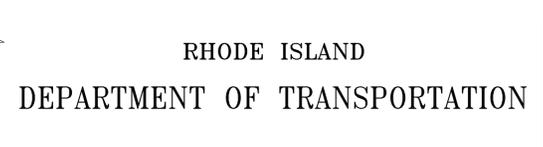


CROSS-SECTION | ELEVATION AT PIER B5
 A402 1/4" = 1'-0"

- xx DECK @ PIER B5
- 10.00' T/O LOWER DECK @ PIER B5
- 5.00' B/O BASE PLATE
- 3.50' T/O PIER
- 0.0' MEAN HIGH WATER

ADDENDUM NO. 9

REF DWG #	REFERENCE DRAWING NAME



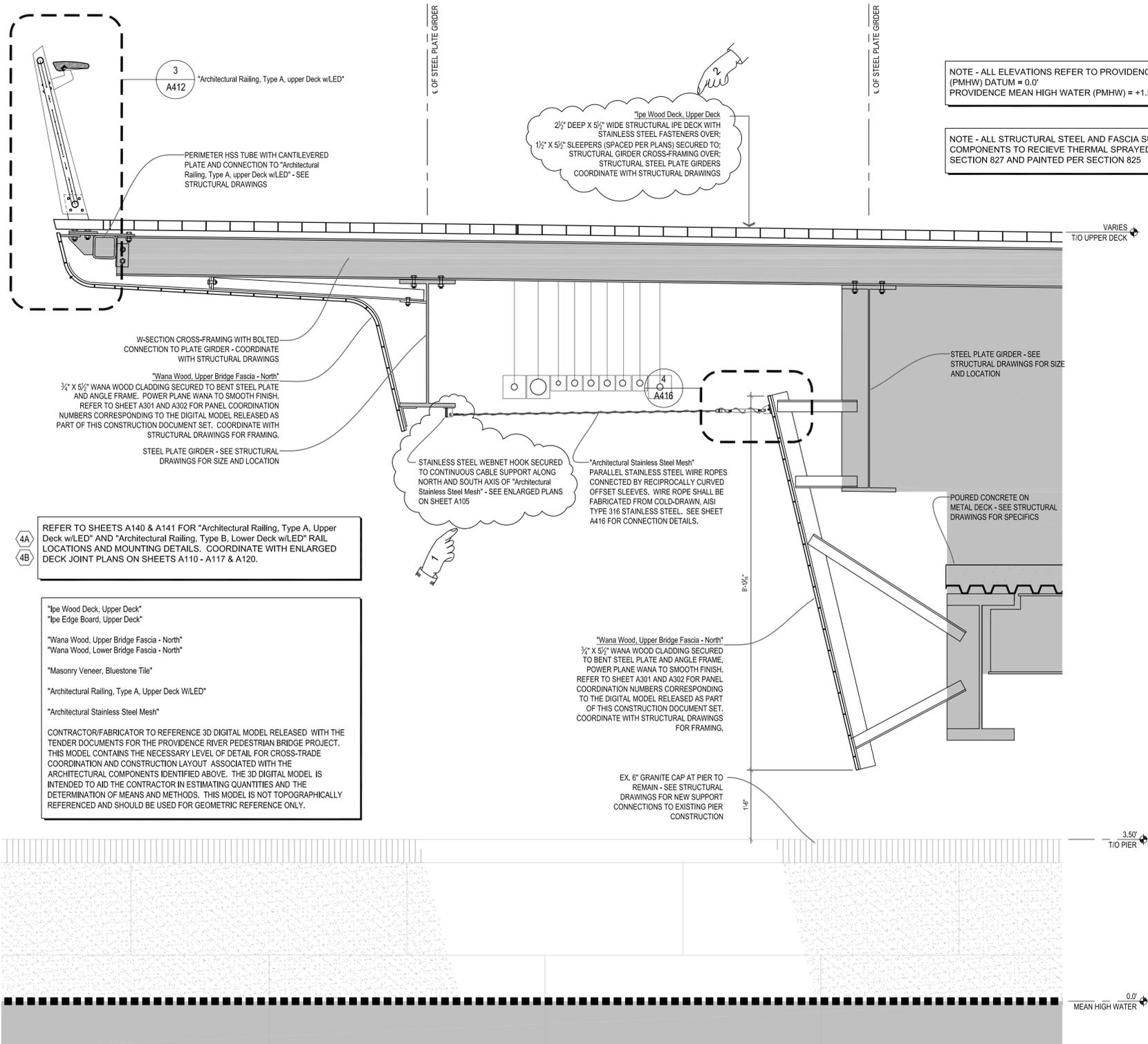
DESIGNED BY:
 CHECKED:
 DATE:
 SHEET: V2_033
 OF: V2_163

SCALE:

REVISIONS			REVISIONS		
NO.	DATE	BY	NO.	DATE	BY
1	6/14/2016	CL			
2	7/8/2016	CL			

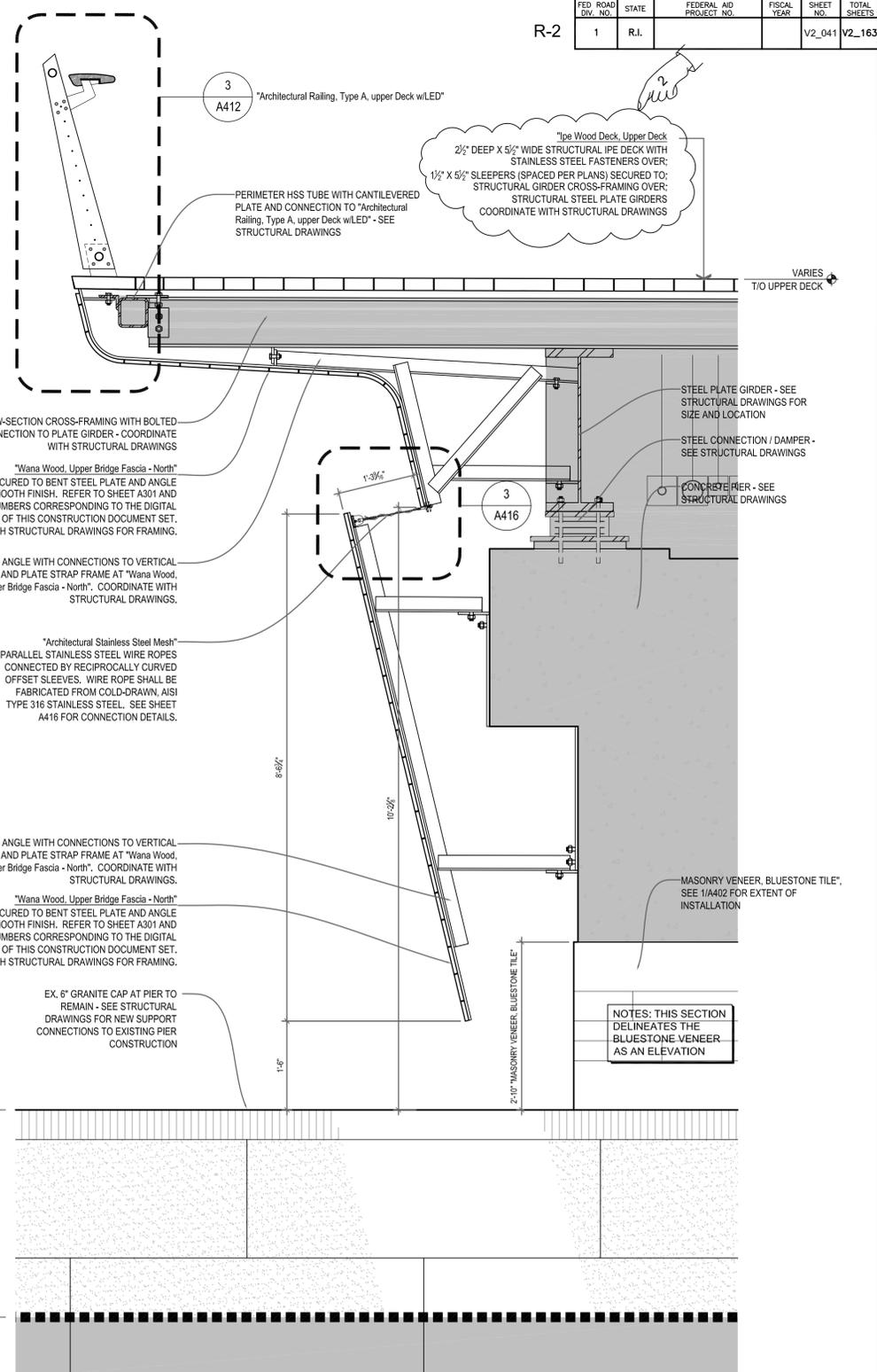
IMPROVEMENTS TO INTERSTATE ROUTE 195
 CONTRACT 16 VOLUME 2
 BRIDGE SECTIONS - PIER B5
 PROVIDENCE RHODE ISLAND
 A402

FED. ROAD DIV. NO.	STATE	FEDERAL AID PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
1	R.I.			V2_041	V2_163



NOTE - ALL ELEVATIONS REFER TO PROVIDENCE MEAN HIGH WATER (PMHW) DATUM = 0.0'
PROVIDENCE MEAN HIGH WATER (PMHW) = +1.54 NAVD 1988

NOTE - ALL STRUCTURAL STEEL AND FASCIA SUPPORT STEEL COMPONENTS TO RECEIVE THERMAL SPRAYED ZINC COATING PER SECTION 827 AND PAINTED PER SECTION 825



REFER TO SHEETS A140 & A141 FOR "Architectural Railing, Type A, Upper Deck w/LED" AND "Architectural Railing, Type B, Lower Deck w/LED" RAIL LOCATIONS AND MOUNTING DETAILS. COORDINATE WITH ENLARGED DECK JOINT PLANS ON SHEETS A110 - A117 & A120.

"Ipe Wood Deck, Upper Deck"
"Ipe Edge Board, Upper Deck"

"Wana Wood, Upper Bridge Fascia - North"
"Wana Wood, Lower Bridge Fascia - North"

"Masonry Veneer, Bluestone Tile"

"Architectural Railing, Type A, Upper Deck w/LED"

"Architectural Stainless Steel Mesh"

CONTRACTOR/FABRICATOR TO REFERENCE 3D DIGITAL MODEL RELEASED WITH THE TENDER DOCUMENTS FOR THE PROVIDENCE RIVER PEDESTRIAN BRIDGE PROJECT. THIS MODEL CONTAINS THE NECESSARY LEVEL OF DETAIL FOR CROSS-TRADE COORDINATION AND CONSTRUCTION LAYOUT ASSOCIATED WITH THE ARCHITECTURAL COMPONENTS IDENTIFIED ABOVE. THE 3D DIGITAL MODEL IS INTENDED TO AID THE CONTRACTOR IN ESTIMATING QUANTITIES AND THE DETERMINATION OF MEANS AND METHODS. THIS MODEL IS NOT TOPOGRAPHICALLY REFERENCED AND SHOULD BE USED FOR GEOMETRIC REFERENCE ONLY.

"Architectural Stainless Steel Mesh"
PARALLEL STAINLESS STEEL WIRE ROPES CONNECTED BY RECIPROCALLY CURVED OFFSET SLEEVES. WIRE ROPE SHALL BE FABRICATED FROM COLD-DRAWN, AISI TYPE 316 STAINLESS STEEL. SEE SHEET A416 FOR CONNECTION DETAILS.

"Wana Wood, Upper Bridge Fascia - North"
3/4" X 5/2" WANA WOOD CLADDING SECURED TO BENT STEEL PLATE AND ANGLE FRAME. POWER PLANE WANA TO SMOOTH FINISH. REFER TO SHEET A301 AND A302 FOR PANEL COORDINATION NUMBERS CORRESPONDING TO THE DIGITAL MODEL RELEASED AS PART OF THIS CONSTRUCTION DOCUMENT SET. COORDINATE WITH STRUCTURAL DRAWINGS FOR FRAMING.

STEEL ANGLE WITH CONNECTIONS TO VERTICAL PLATE AND PLATE STRAP FRAME AT "Wana Wood, Lower Bridge Fascia - North". COORDINATE WITH STRUCTURAL DRAWINGS.

"Wana Wood, Upper Bridge Fascia - North"
3/4" X 5/2" WANA WOOD CLADDING SECURED TO BENT STEEL PLATE AND ANGLE FRAME. POWER PLANE WANA TO SMOOTH FINISH. REFER TO SHEET A301 AND A302 FOR PANEL COORDINATION NUMBERS CORRESPONDING TO THE DIGITAL MODEL RELEASED AS PART OF THIS CONSTRUCTION DOCUMENT SET. COORDINATE WITH STRUCTURAL DRAWINGS FOR FRAMING.

NOTES: THIS SECTION DELINEATES THE BLUESTONE VENEER AS AN ELEVATION

2 NORTH FASCIA SECTION BETWEEN PIERS B4 & B5
A415 3/4" = 1'-0" 1 / A403

1 NORTH FASCIA SECTION AT PIER B5
A415 3/4" = 1'-0" 1 / A402

REF DWG #	REFERENCE DRAWING NAME
S231	B5 PIER DETAILS

ADDENDUM NO. 9



RHODE ISLAND DEPARTMENT OF TRANSPORTATION



DESIGNED BY:
CHECKED:
DATE:
SHEET: V2_041
OF: V2_163

SCALE:

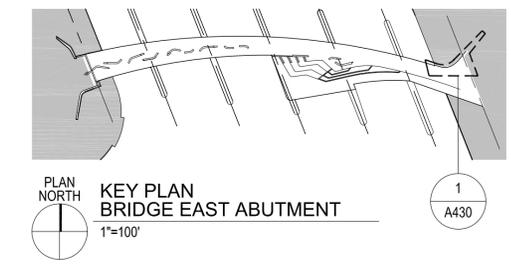
REVISIONS			REVISIONS		
NO.	DATE	BY	NO.	DATE	BY
1	6/14/2016	CL			
2	7/8/2016	CL			

IMPROVEMENTS TO INTERSTATE ROUTE 195 CONTRACT 16 VOLUME 2 RHODE ISLAND

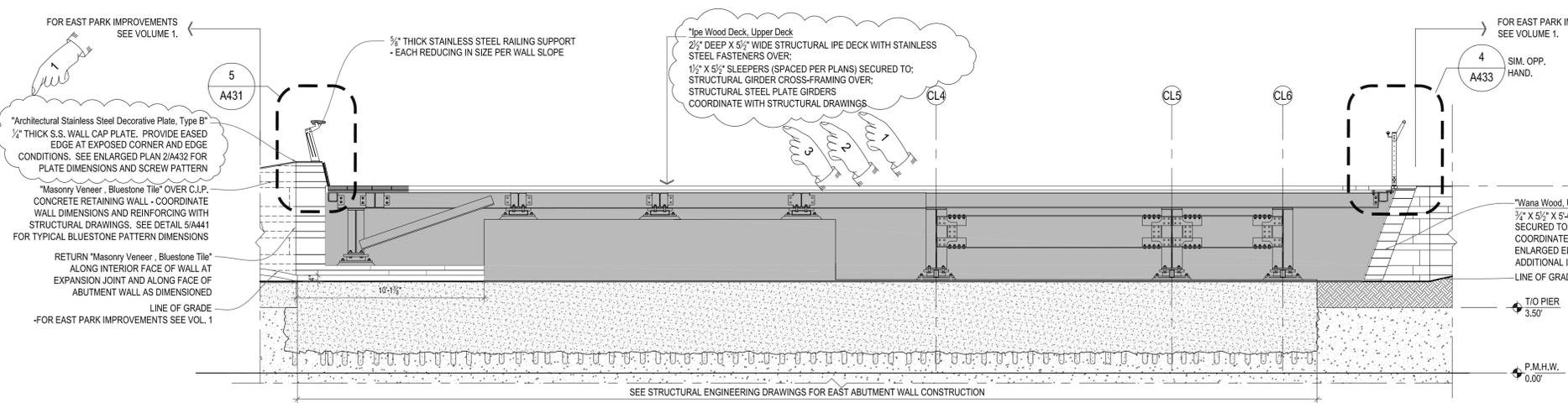
FASCIA SECTIONS AND DETAILS A415

FED. ROAD DIST. NO.	STATE	FEDERAL AID PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
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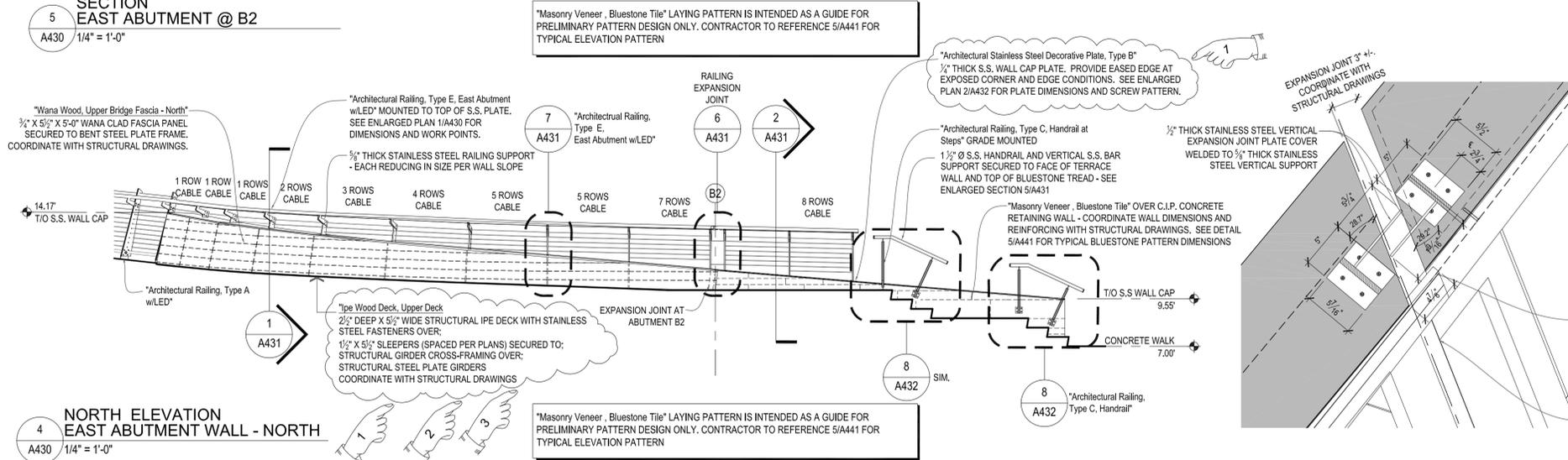
R-3



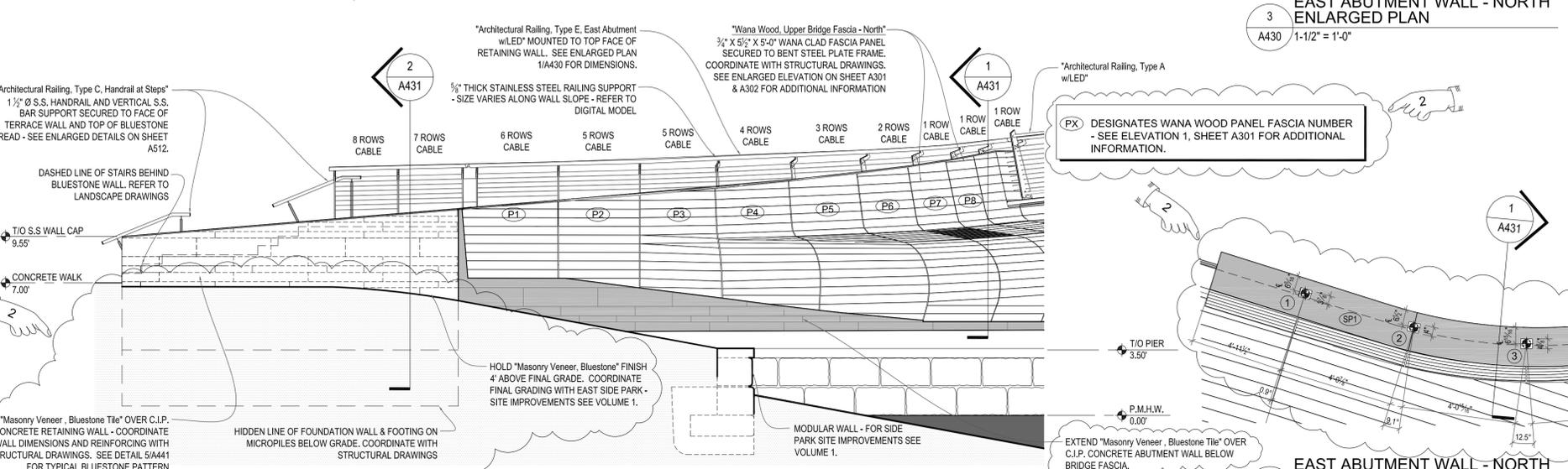
EAST ABUTMENT RAILING WORKPOINT LOCATION (TYP.)
3" = 1'-0"



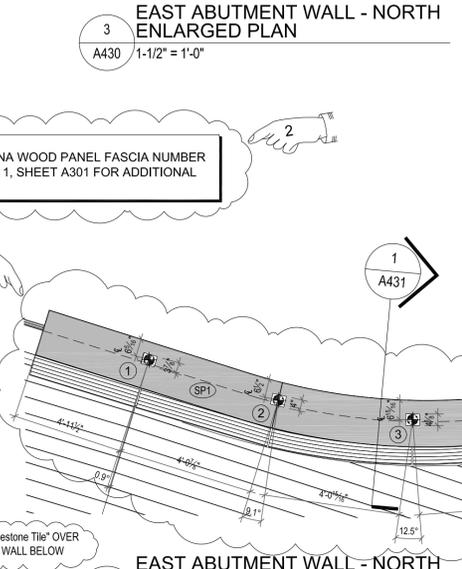
SECTION EAST ABUTMENT @ B2
A430 1/4" = 1'-0"



NORTH ELEVATION EAST ABUTMENT WALL - NORTH
A430 1/4" = 1'-0"



NORTH ELEVATION EAST ABUTMENT WALL - SOUTH
A430 1/4" = 1'-0"



EAST ABUTMENT WALL - NORTH ENLARGED PLAN
A430 1-1/2" = 1'-0"

"Architectural Railing, Type A w/LED"
"Architectural Railing, Type C"
"Architectural Railing, Type E, East Abutment w/LED"
"Wana Wood, Upper Bridge Fascia - North"
"Wana Wood, Upper Bridge Fascia - South"
"Ipe Wood Deck, Lower Deck"
"Architectural Stainless Steel Decorative Plate"

CONTRACTOR/FABRICATOR TO REFERENCE 3D DIGITAL MODEL RELEASED WITH THE TENDER DOCUMENTS FOR THE PROVIDENCE RIVER PEDESTRIAN BRIDGE PROJECT. THIS MODEL CONTAINS THE NECESSARY LEVEL OF DETAIL FOR CROSS-TRADE COORDINATION AND CONSTRUCTION LAYOUT ASSOCIATED WITH THE ARCHITECTURAL COMPONENTS IDENTIFIED ABOVE. THE 3D DIGITAL MODEL IS INTENDED TO AID THE CONTRACTOR IN ESTIMATING QUANTITIES AND THE DETERMINATION OF MEANS AND METHODS. THIS MODEL IS NOT TOPOGRAPHICALLY REFERENCED AND SHOULD BE USED FOR GEOMETRIC REFERENCE ONLY.

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PROVIDENCE MEAN HIGH WATER (PMHW) = +1.54 NAVD 1988

NOTE - STATION LINE RUNS PERPENDICULAR TO EXISTING PIERS - ORIGIN AT INTERSECTION OF TRANSVERSE AND LONGITUDINAL MIDPOINT OF PIER B5

"Wana Wood, Upper Bridge Fascia - North"
3/2" X 5/2" WANA WOOD CLADDING CANTILEVERED OVER VERTICAL EXPANSION JOINT OPENING. POWER PLANE WANA TO SMOOTH FINISH. REFER TO SHEET A301 AND A302 FOR PANEL COORDINATION NUMBERS CORRESPONDING TO THE DIGITAL MODEL RELEASED AS PART OF THIS CONSTRUCTION DOCUMENT SET. COORDINATE WITH STRUCTURAL DRAWINGS FOR FRAMING.

"Expansion Joint, Stainless Steel"
AT ABUTMENT B2 - SEE ENLARGED EXPANSION JOINT PLAN ON SHEET A143 - COORDINATE WITH STRUCTURAL DRAWINGS

OUTLINE OF 2X10 PROFILED IPE GUARD RAIL WITH INTEGRAL LINEAR LED LIGHT FIXTURE

"Architectural Railing, Type E, East Abutment w/LED" MOUNTED TO TOP FACE OF RETAINING WALL.

"Architectural Stainless Steel Decorative Plate, Type B"
1/2" THICK S.S. WALL CAP PLATE. PROVIDE EASED EDGE AT EXPOSED CORNER AND EDGE CONDITIONS. SEE ENLARGED PLAN 2/A432 FOR PLATE DIMENSIONS AND SCREW PATTERN.

"Expansion Joint, Stainless Steel"
AT ABUTMENT B2 - SEE ENLARGED EXPANSION JOINT PLAN ON SHEET A143 - COORDINATE WITH STRUCTURAL DRAWINGS

"Ipe Wood Deck, Upper Deck"
2 1/2" DEEP X 5 1/2" WIDE STRUCTURAL IPE DECK WITH STAINLESS STEEL FASTENERS OVER:
1 1/2" X 5 1/2" SLEEPERS (SPACED PER PLANS) SECURED TO:
STRUCTURAL GIRDER CROSS-FRAMING OVER:
STRUCTURAL STEEL PLATE GIRDERS
COORDINATE WITH STRUCTURAL DRAWINGS

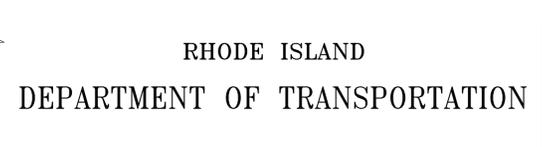
"Expansion Joint, Stainless Steel"
AT ABUTMENT B2 - SEE ENLARGED EXPANSION JOINT PLAN ON SHEET A143 - COORDINATE WITH STRUCTURAL DRAWINGS

"Masonry Veneer, Bluestone Tile" OVER C.I.P. CONCRETE RETAINING WALL - COORDINATE WALL DIMENSIONS AND REINFORCING WITH STRUCTURAL DRAWINGS. SEE DETAIL 5/A441 FOR TYPICAL BLUESTONE PATTERN DIMENSIONS

DESIGNATES VERTICAL SUPPORT PLATE NUMBER - SEE DETAIL 1, SHEET A434 FOR STEEL DIMENSIONS.

REF DWG #	REFERENCE DRAWING NAME
S201	B2 ABUTMENT ELEVATION - 1

ADDENDUM NO. 9



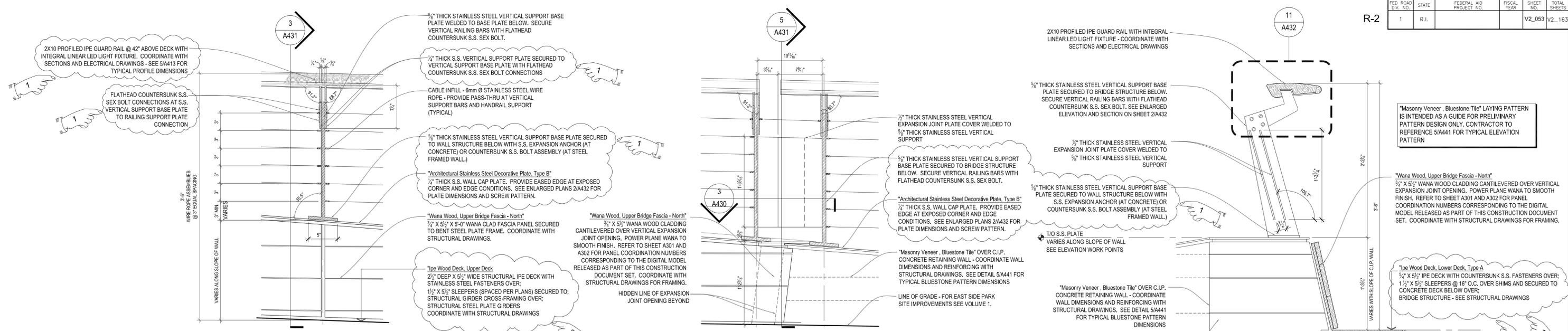
DESIGNED BY:
CHECKED:
DATE:
SHEET: V2_052
OF: V2_163

SCALE:	
NO.	DATE
1	6/14/2016
2	6/21/2016
3	7/8/2016

IMPROVEMENTS TO INTERSTATE ROUTE 195
CONTRACT 16 VOLUME 2
EAST ABUTMENT WALLS
NORTH PLAN, ELEVATIONS, AND SECTIONS
A430

FED. ROAD DIST. NO.	STATE	FEDERAL AID PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
1	R.I.			V2_053	V2_163

R-2

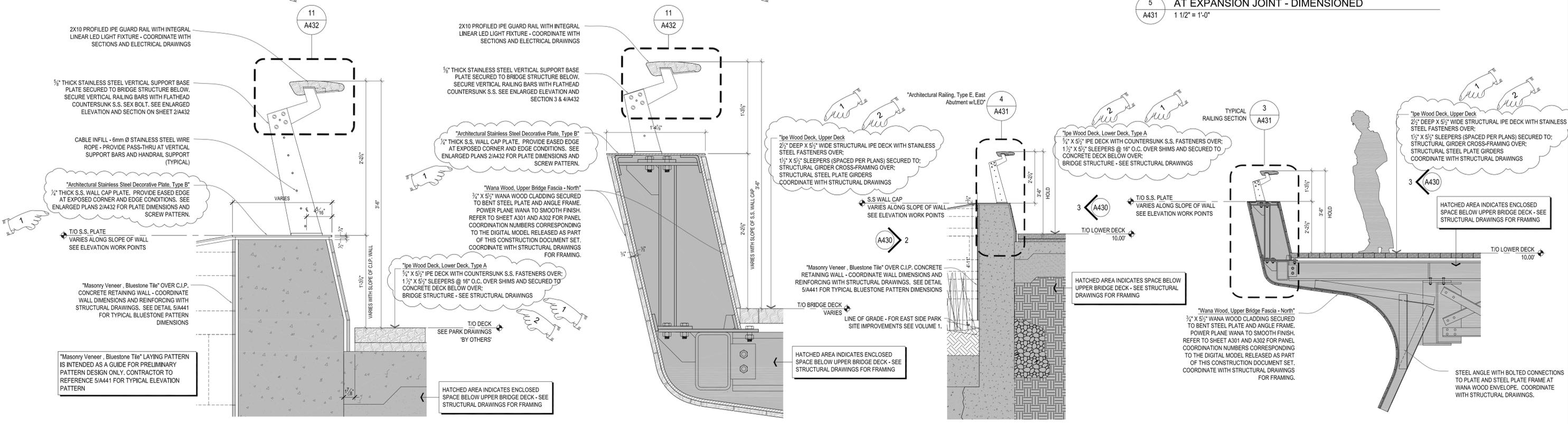


"Architectural Railing, Type E, East Abutment w/LED" ENLARGED ELEVATION - VERTICAL SUPPORT
A431 1 1/2" = 1'-0"

"Architectural Railing, Type E, East Abutment w/LED" ENLARGED ELEVATION - VERTICAL SUPPORT
A431 1 1/2" = 1'-0"



SECTION - EAST ABUTMENT WALL AT EXPANSION JOINT - DIMENSIONED
A431 1 1/2" = 1'-0"



TYPICAL SECTION - EAST ABUTMENT WALL - NORTH DIMENSIONED
A431 1 1/2" = 1'-0"

TYPICAL END RAIL SECTION - EAST ABUTMENT WALL - NORTH DIMENSIONED
A431 1 1/2" = 1'-0"

TYPICAL WALL SECTION - C.I.P. EAST ABUTMENT WALL - NORTH
A431 1/2" = 1'-0"

MIDSPAN TYPICAL WALL SECTION EAST ABUTMENT WALL - NORTH
A431 1/2" = 1'-0"

ADDENDUM NO. 9

REF DWG #	REFERENCE DRAWING NAME



RHODE ISLAND DEPARTMENT OF TRANSPORTATION

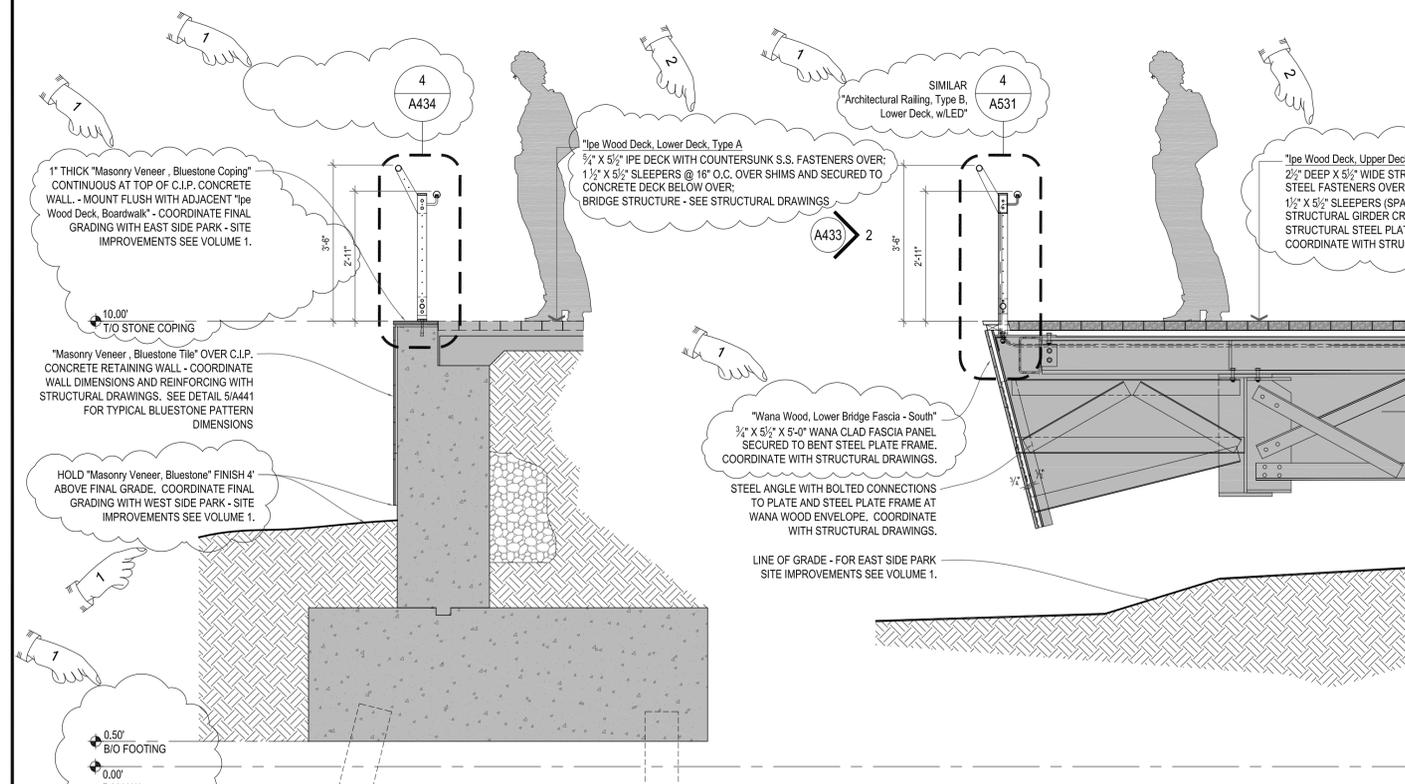


DESIGNED BY:
CHECKED:
DATE:
SHEET: V2_053
OF: V2_163

SCALE:

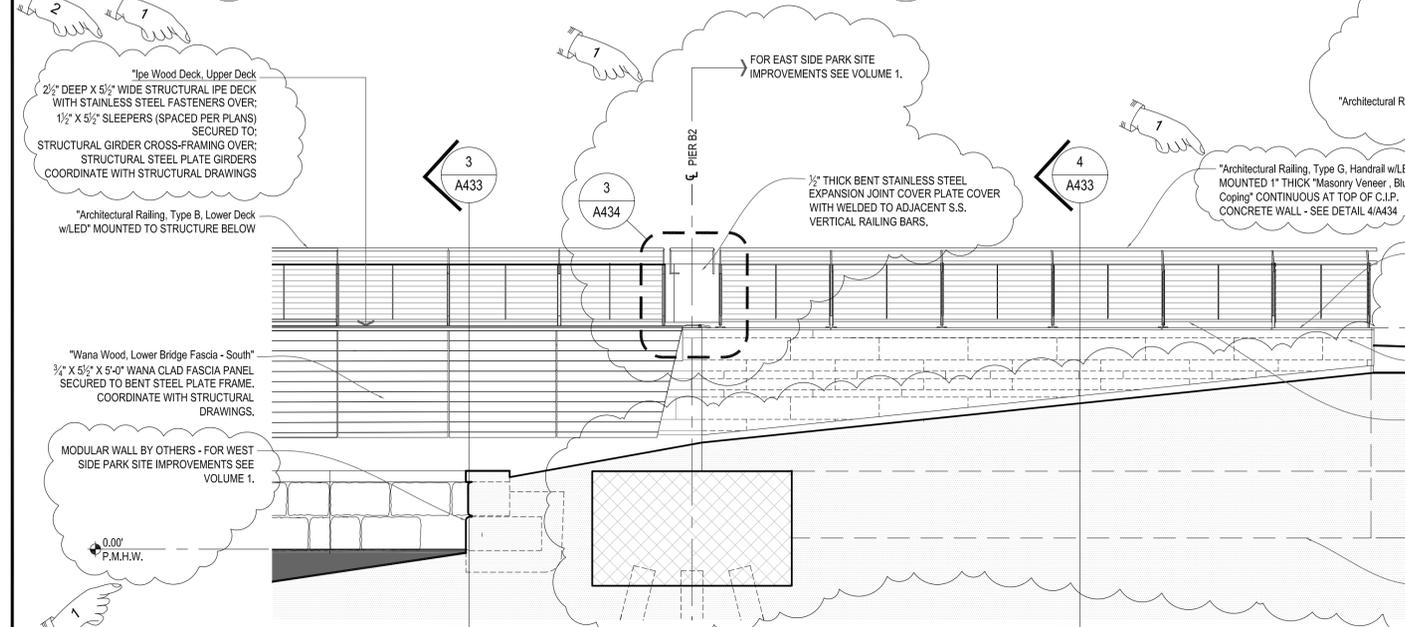
REVISIONS			REVISIONS		
NO.	DATE	BY	NO.	DATE	BY
1	6/14/2016	CL			
2	7/8/2016	CL			

IMPROVEMENTS TO INTERSTATE ROUTE 195 CONTRACT 16 VOLUME 2
EAST ABUTMENT WALLS - SECTIONS AND DETAILS
A431



4
 A433 1/2" = 1'-0"

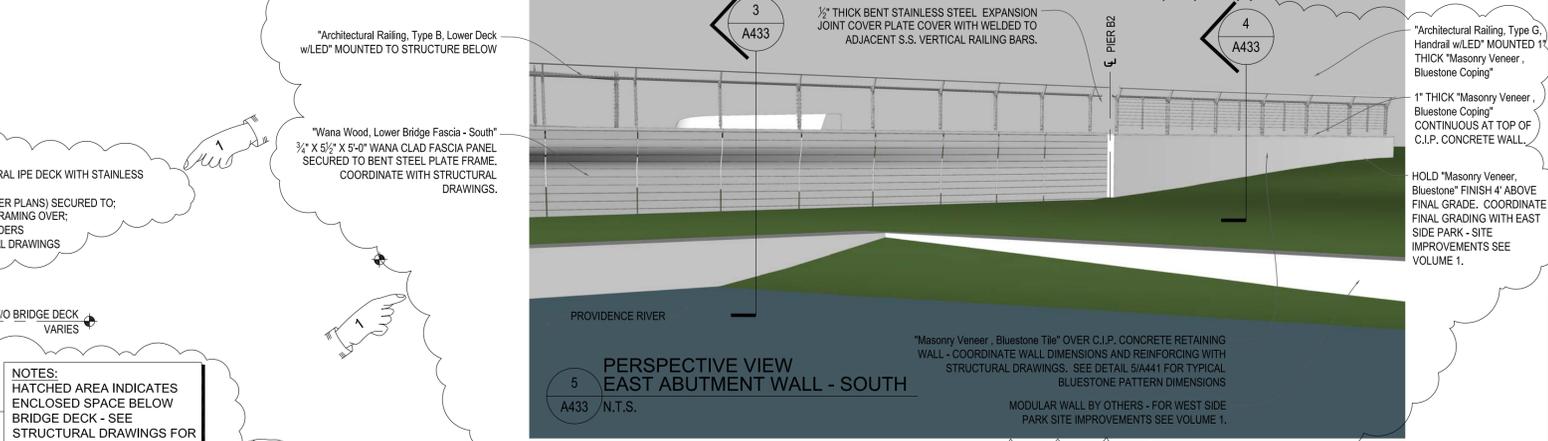
3
 A433 1/2" = 1'-0"



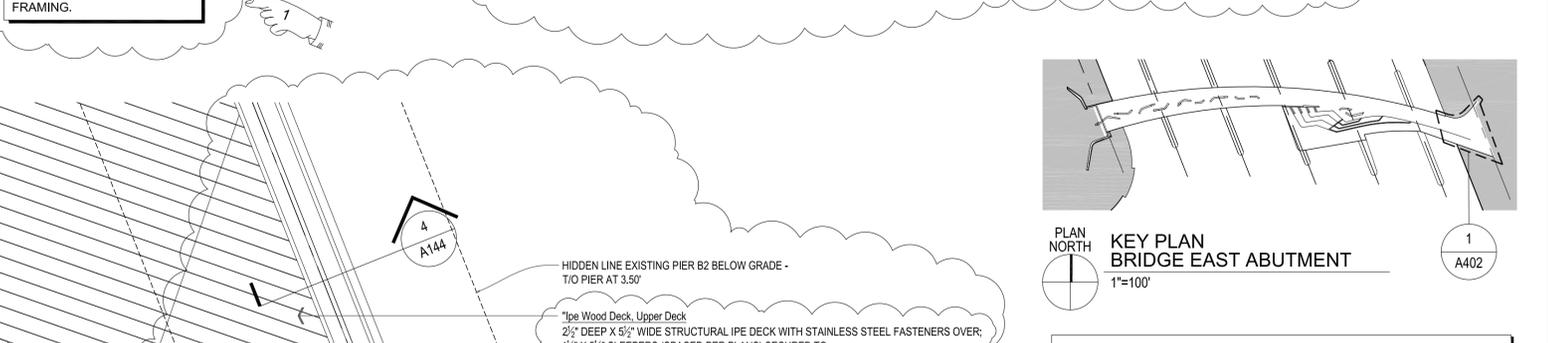
2
 A433 1/4" = 1'-0"



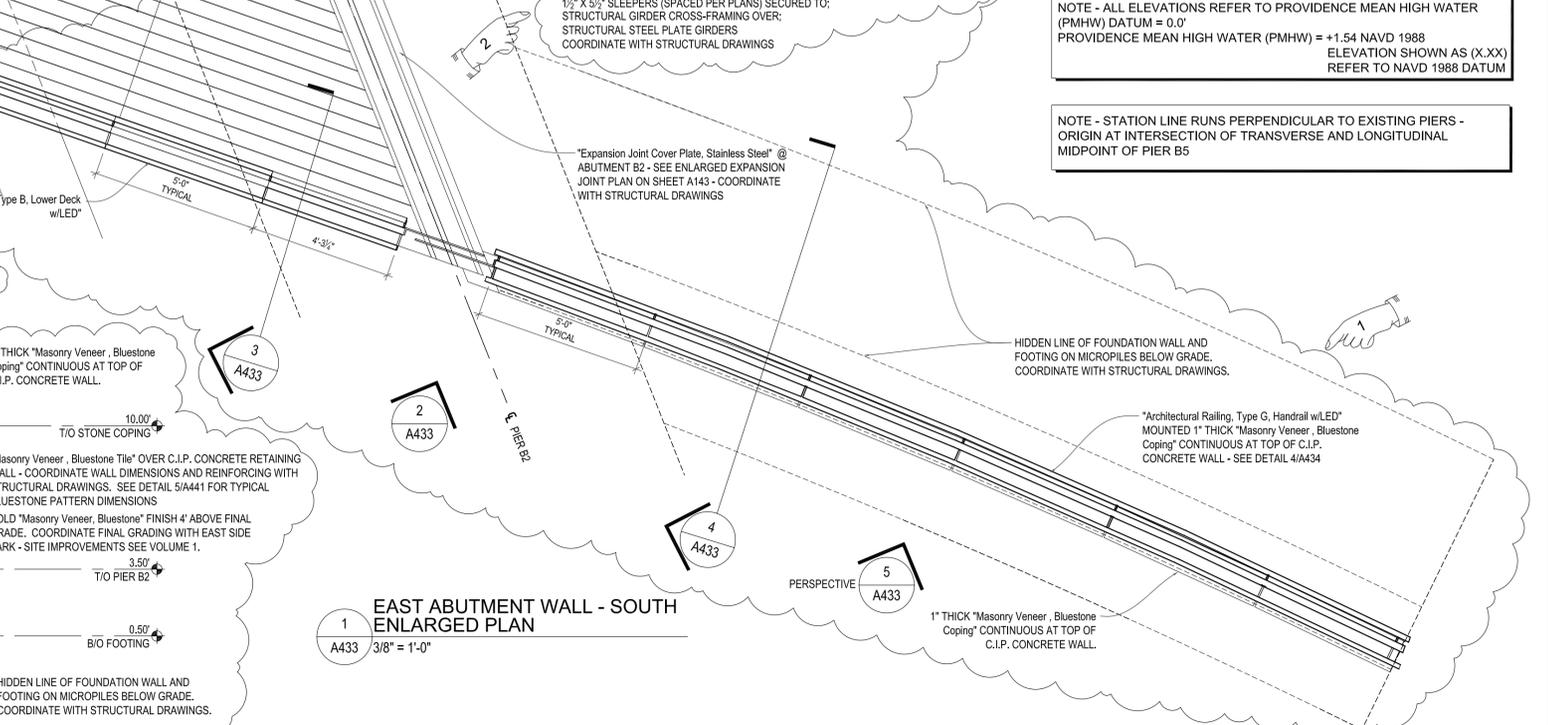
2
 A433 1/4" = 1'-0"



5
 A433 N.T.S.



1
 A402 1"=100'



1
 A433 3/8" = 1'-0"

NOTE - ALL ELEVATIONS REFER TO PROVIDENCE MEAN HIGH WATER (PMHW) DATUM = 0.0'
 PROVIDENCE MEAN HIGH WATER (PMHW) = +1.54 NAVD 1988
 ELEVATION SHOWN AS (X.XX)
 REFER TO NAVD 1988 DATUM

NOTE - STATION LINE RUNS PERPENDICULAR TO EXISTING PIERS - ORIGIN AT INTERSECTION OF TRANSVERSE AND LONGITUDINAL MIDPOINT OF PIER B5

HIDDEN LINE OF FOUNDATION WALL AND FOOTING ON MICROPILES BELOW GRADE. COORDINATE WITH STRUCTURAL DRAWINGS.

1" THICK "Masonry Veneer, Bluestone Coping" CONTINUOUS AT TOP OF C.I.P. CONCRETE WALL.

REF DWG #	REFERENCE DRAWING NAME
S200	PART PLAN - B2 ABUTMENTS



RHODE ISLAND
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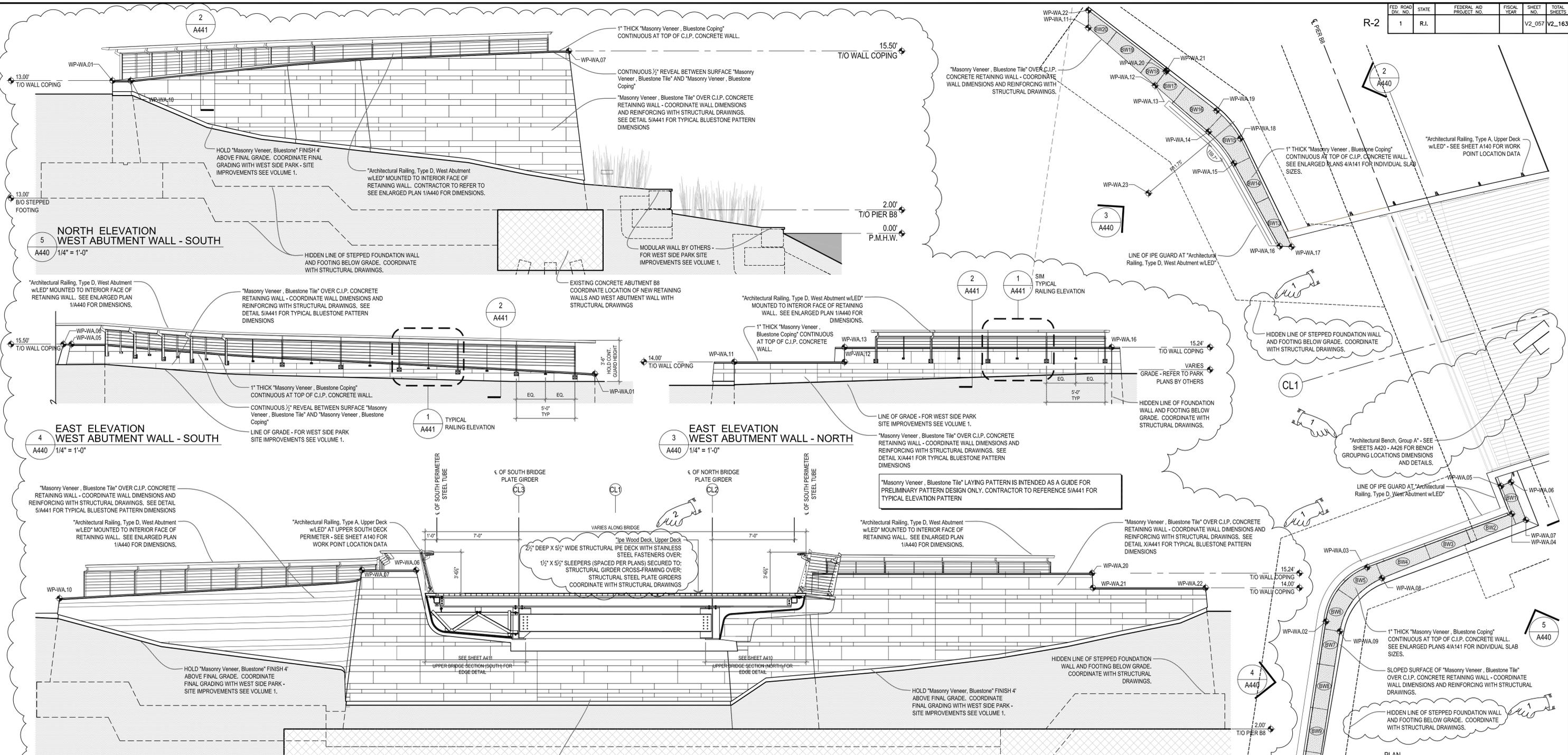
DESIGNED BY:
 CHECKED:
 DATE:
 SHEET: V2_055
 OF: V2_163

SCALE:

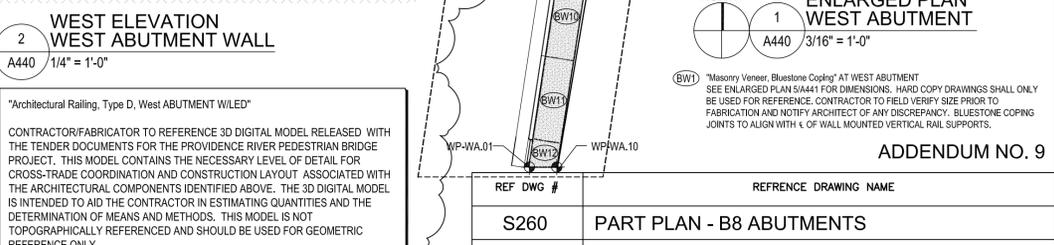
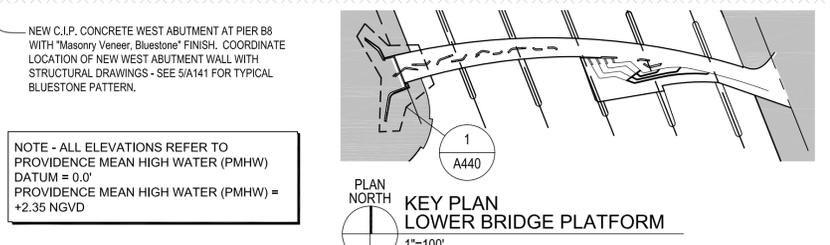
REVISIONS			REVISIONS		
NO.	DATE	BY	NO.	DATE	BY
1	6/21/2016	CL			
2	7/8/2016	CL			

IMPROVEMENTS TO
 INTERSTATE ROUTE 195
 CONTRACT 16 VOLUME 2
 EAST ABUTMENT WALLS - SOUTH
 PLAN, ELEVATIONS AND SECTION
 A433

FED. ROAD DIST. NO.	STATE	FEDERAL AID PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
1	R.I.			V2_057	V2_163

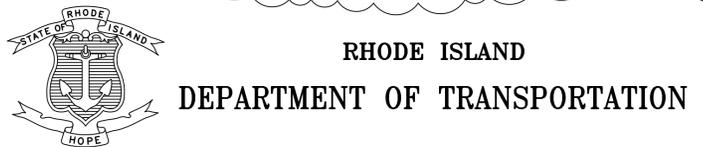


WORK POINT	PLAN DATA			WORK POINT	PLAN DATA			WORK POINT	PLAN DATA		
	TERRACE STATION	STATION OFFSET	ELEVATION		TERRACE STATION	STATION OFFSET	ELEVATION		TERRACE STATION	STATION OFFSET	ELEVATION
WP-WA.1	0+62.64	18.38 LEFT	13.00 (PMHW)	WP-WA.9	0+77.13	39.68 LEFT	14.33 (PMHW)	WP-WA.17	0+88.12	82.21 LEFT	15.24 (PMHW)
WP-WA.2	0+76.30	41.68 LEFT	14.40 (PMHW)	WP-WA.10	0+64.20	17.76 LEFT	13.00 (PMHW)	WP-WA.18	0+87.32	94.73 LEFT	15.24 (PMHW)
WP-WA.3	0+82.75	45.27 LEFT	14.80 (PMHW)	WP-WA.11	0+75.76	113.82 LEFT	14.00 (PMHW)	WP-WA.19	0+85.70	99.99 LEFT	15.24 (PMHW)
WP-WA.4	1+00.25	44.82 LEFT	15.50 (PMHW)	WP-WA.12	0+80.41	104.93 LEFT	14.00 (PMHW)	WP-WA.20	0+82.15	105.96 LEFT	15.24 (PMHW)
WP-WA.5	1+00.27	48.21 LEFT	15.50 (PMHW)	WP-WA.13	0+80.41	104.93 LEFT	15.24 (PMHW)	WP-WA.21	0+82.27	106.03 LEFT	14.00 (PMHW)
WP-WA.6	1+01.49	48.21 LEFT	15.50 (PMHW)	WP-WA.14	0+83.73	98.56 LEFT	15.24 (PMHW)	WP-WA.22	0+76.49	115.65 LEFT	14.00 (PMHW)
WP-WA.7	1+01.49	43.58 LEFT	15.50 (PMHW)	WP-WA.15	0+85.58	92.82 LEFT	15.24 (PMHW)	WP-WA.23	0+75.57	93.99 LEFT	00.00 (PMHW)
WP-WA.8	0+83.82	43.51 LEFT	14.84 (PMHW)	WP-WA.16	0+86.89	82.77 LEFT	15.24 (PMHW)				



NOTE - ALL ELEVATIONS REFER TO PROVIDENCE MEAN HIGH WATER (PMHW) DATUM = 0.0' PROVIDENCE MEAN HIGH WATER (PMHW) = +2.35 NGVD

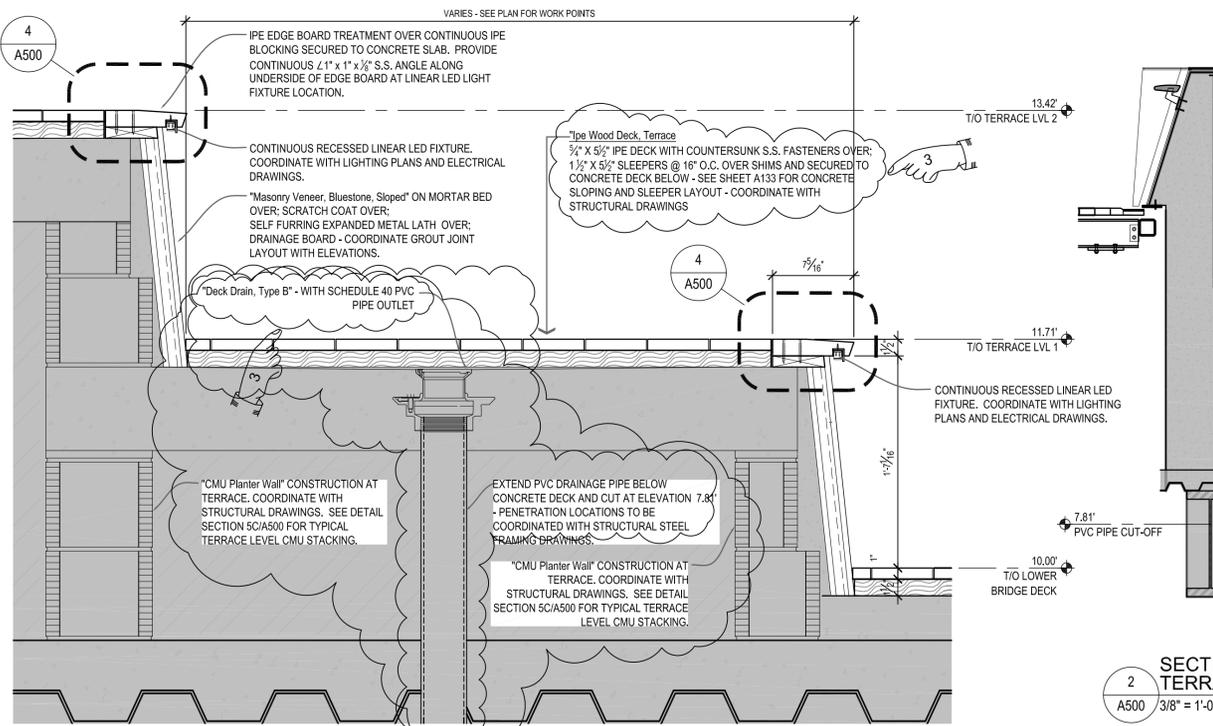
CONTRACTOR/FABRICATOR TO REFERENCE 3D DIGITAL MODEL RELEASED WITH THE TENDER DOCUMENTS FOR THE PROVIDENCE RIVER PEDESTRIAN BRIDGE PROJECT. THIS MODEL CONTAINS THE NEAREST LEVEL OF DETAIL FOR CROSS-TRADE COORDINATION AND CONSTRUCTION LAYOUT ASSOCIATED WITH THE ARCHITECTURAL COMPONENTS IDENTIFIED ABOVE. THE 3D DIGITAL MODEL IS INTENDED TO AID THE CONTRACTOR IN ESTIMATING QUANTITIES AND THE DETERMINATION OF MEANS AND METHODS. THIS MODEL IS NOT TOPOGRAPHICALLY REFERENCED AND SHOULD BE USED FOR GEOMETRIC REFERENCE ONLY.



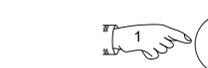
DESIGNED BY: _____
 CHECKED: _____
 DATE: _____
 SHEET: V2_057
 OF: V2_163

REVISIONS			REVISIONS		
NO.	DATE	BY	NO.	DATE	BY
1	6/21/2016	CL			
2	7/8/2016	CL			

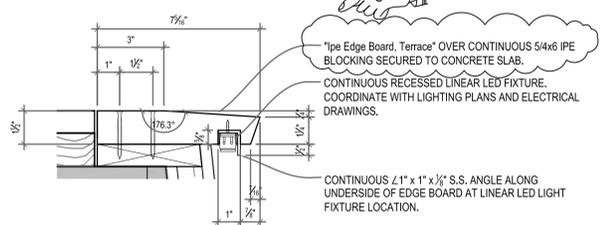
S260		PART PLAN - B8 ABUTMENTS	
WEST ABUTMENT WALLS		PLAN AND ELEVATIONS	
A440		A440	



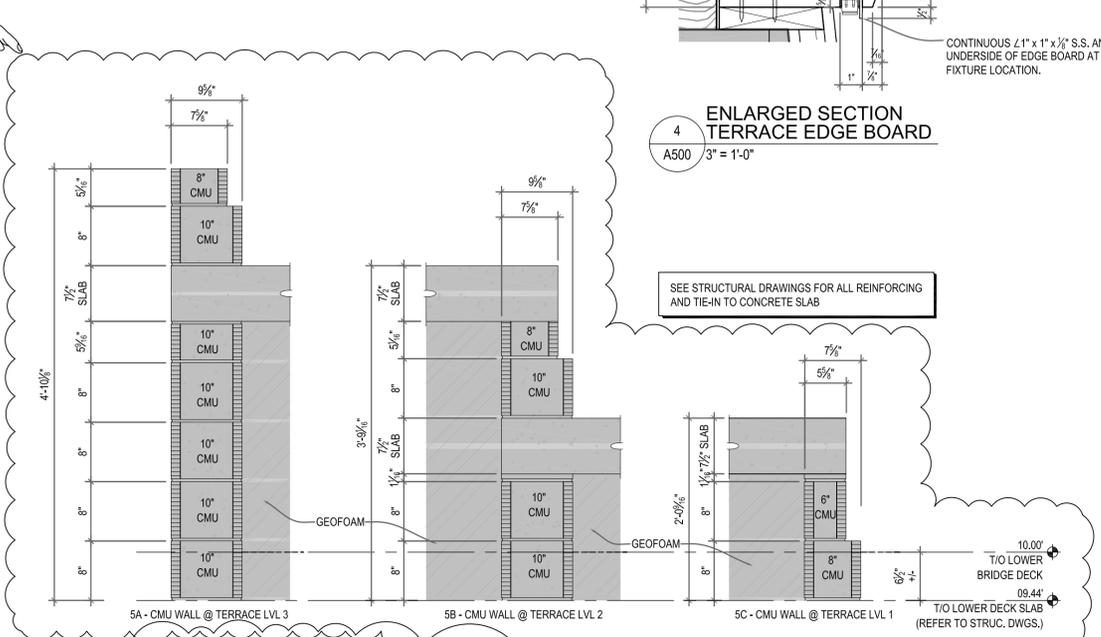
SECTION TERRACE
 A500 3/8" = 1'-0"



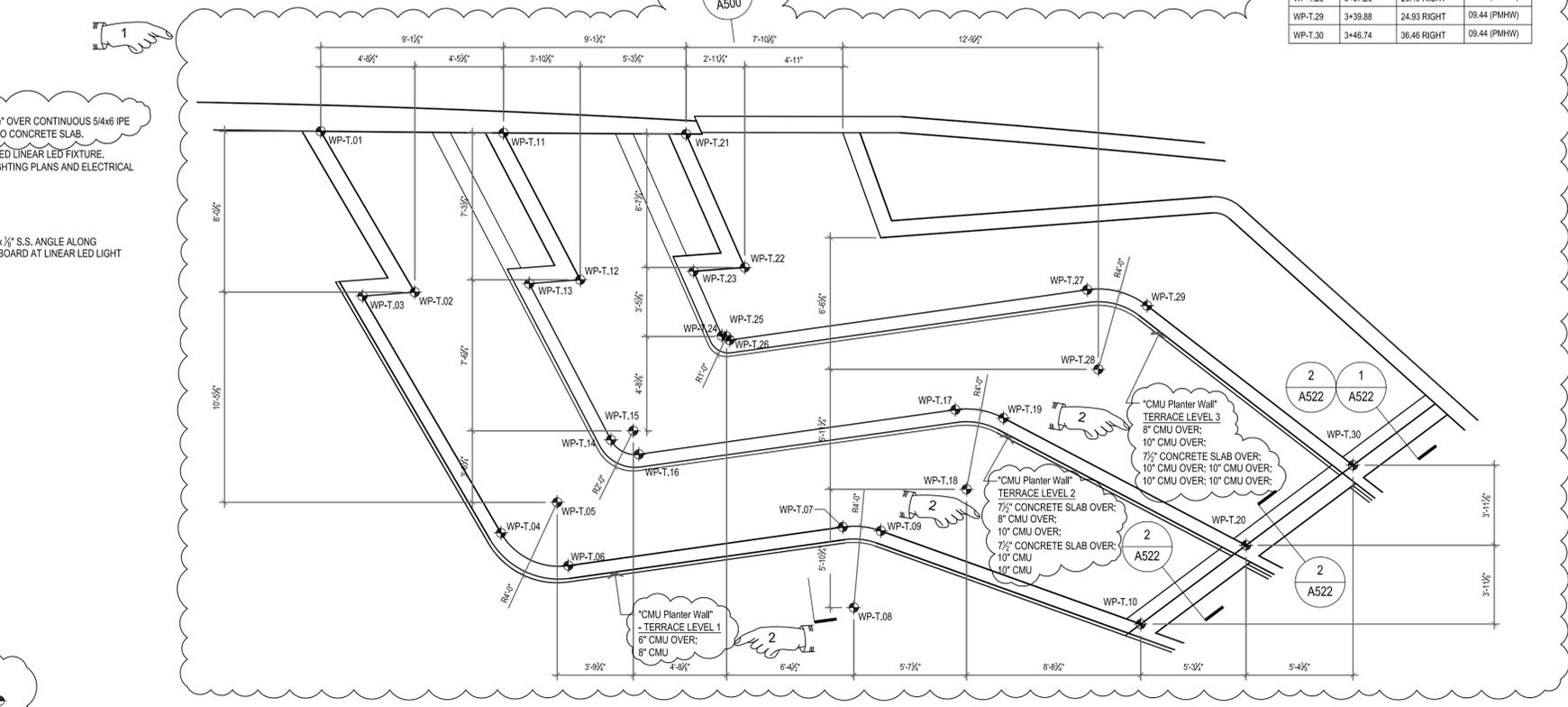
ENLARGED SECTION TERRACE
 A500 1-1/2" = 1'-0"



ENLARGED SECTION TERRACE EDGE BOARD
 A500 3" = 1'-0"



ENLARGED SECTION TERRACE WALL "CMU Planter Wall" SIZES
 A500 1" = 1'-0"



ENLARGED DIMENSION PLAN TERRACE CMU BACK-UP WALL
 A500 1/4" = 1'-0"

PLAN DATA			
WORK POINT	STATION	STATION OFFSET	ELEVATION
WP-T.1	3+04.84	01.91 RIGHT	09.44 (PMHW)
WP-T.2	3+06.27	11.11 RIGHT	09.44 (PMHW)
WP-T.3	3+03.76	10.32 RIGHT	09.44 (PMHW)
WP-T.4	3+05.94	24.45 RIGHT	09.44 (PMHW)
WP-T.5	3+08.36	24.08 RIGHT	09.44 (PMHW)
WP-T.6	3+07.78	26.46 RIGHT	09.44 (PMHW)
WP-T.7	3+21.85	29.88 RIGHT	09.44 (PMHW)
WP-T.8	3+20.89	33.82 RIGHT	09.44 (PMHW)
WP-T.9	3+23.57	30.78 RIGHT	09.44 (PMHW)
WP-T.10	3+33.94	39.89 RIGHT	09.44 (PMHW)
WP-T.11	3+13.31	05.34 RIGHT	09.44 (PMHW)
WP-T.12	3+14.19	13.60 RIGHT	09.44 (PMHW)
WP-T.13	3+11.75	12.83 RIGHT	09.44 (PMHW)
WP-T.14	3+12.67	21.52 RIGHT	09.44 (PMHW)
WP-T.15	3+14.11	21.36 RIGHT	09.44 (PMHW)
WP-T.16	3+13.77	22.77 RIGHT	09.44 (PMHW)
WP-T.17	3+29.40	26.58 RIGHT	09.44 (PMHW)
WP-T.18	3+28.56	30.03 RIGHT	09.44 (PMHW)
WP-T.19	3+31.25	27.71 RIGHT	09.44 (PMHW)
WP-T.20	3+40.29	38.19 RIGHT	09.44 (PMHW)
WP-T.21	3+21.79	08.78 RIGHT	09.44 (PMHW)
WP-T.22	3+22.07	16.06 RIGHT	09.44 (PMHW)
WP-T.23	3+19.62	15.30 RIGHT	09.44 (PMHW)
WP-T.24	3+19.74	18.37 RIGHT	09.44 (PMHW)
WP-T.25	3+20.68	18.33 RIGHT	09.44 (PMHW)
WP-T.26	3+20.46	19.25 RIGHT	09.44 (PMHW)
WP-T.27	3+37.98	23.52 RIGHT	09.44 (PMHW)
WP-T.28	3+37.26	26.49 RIGHT	09.44 (PMHW)
WP-T.29	3+39.88	24.93 RIGHT	09.44 (PMHW)
WP-T.30	3+46.74	36.46 RIGHT	09.44 (PMHW)

ADDENDUM NO. 9

REF DWG #	REFERENCE DRAWING NAME



RHODE ISLAND
 DEPARTMENT OF TRANSPORTATION



DESIGNED BY:
 CHECKED:
 DATE:
 SHEET: V2_059
 OF: V2_163

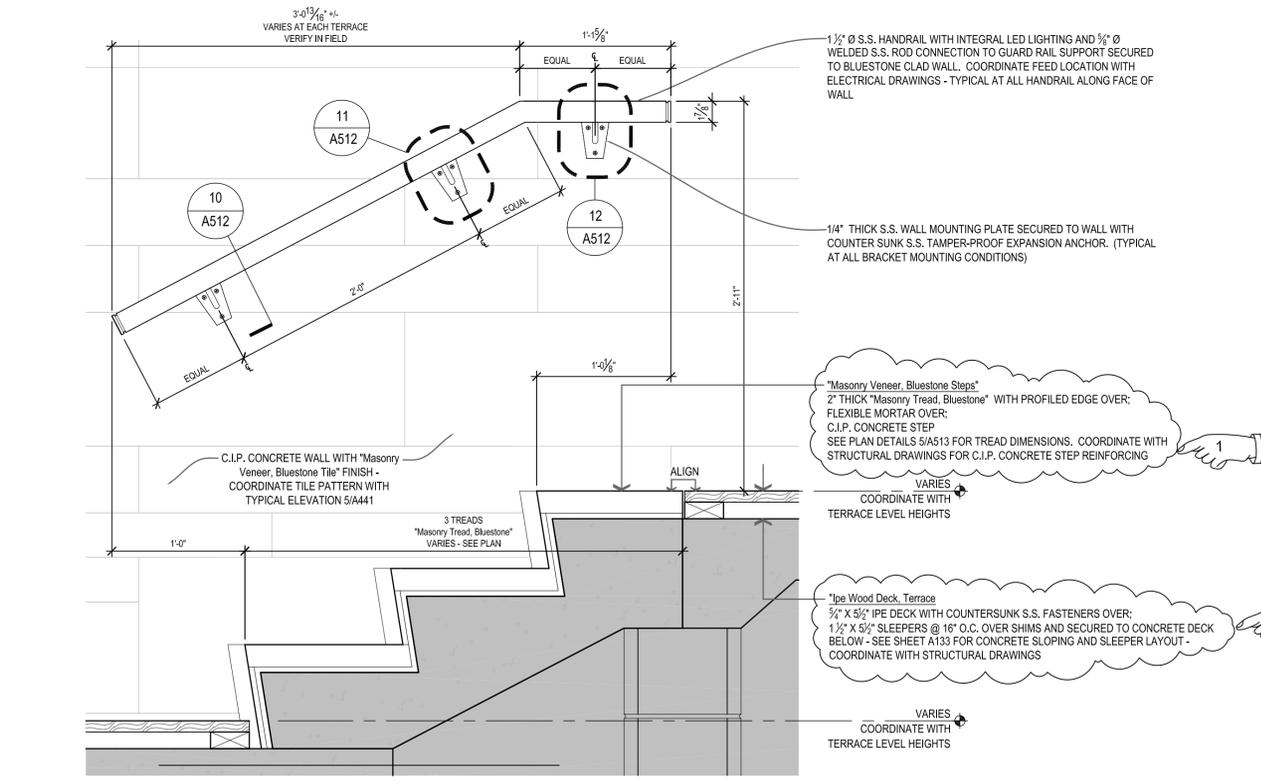
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REVISIONS			REVISIONS		
NO.	DATE	BY	NO.	DATE	BY
1	6/14/2016	CL			
2	6/21/2016	CL			
3	7/8/2016	CL			

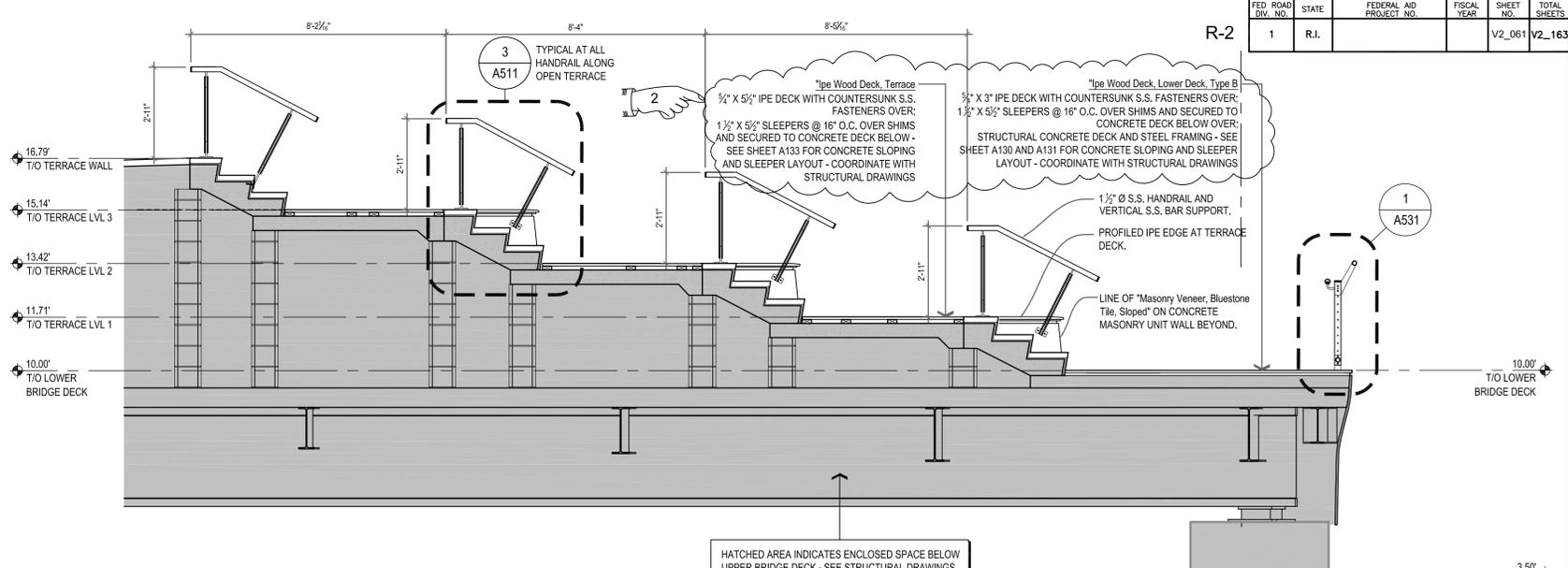
PROVIDENCE
IMPROVEMENTS TO INTERSTATE ROUTE 195
 CONTRACT 16 VOLUME 2
 ENLARGED TERRACE PLAN SECTIONS AND DETAILS
 A500

FED. ROAD DIST. NO.	STATE	FEDERAL AID PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
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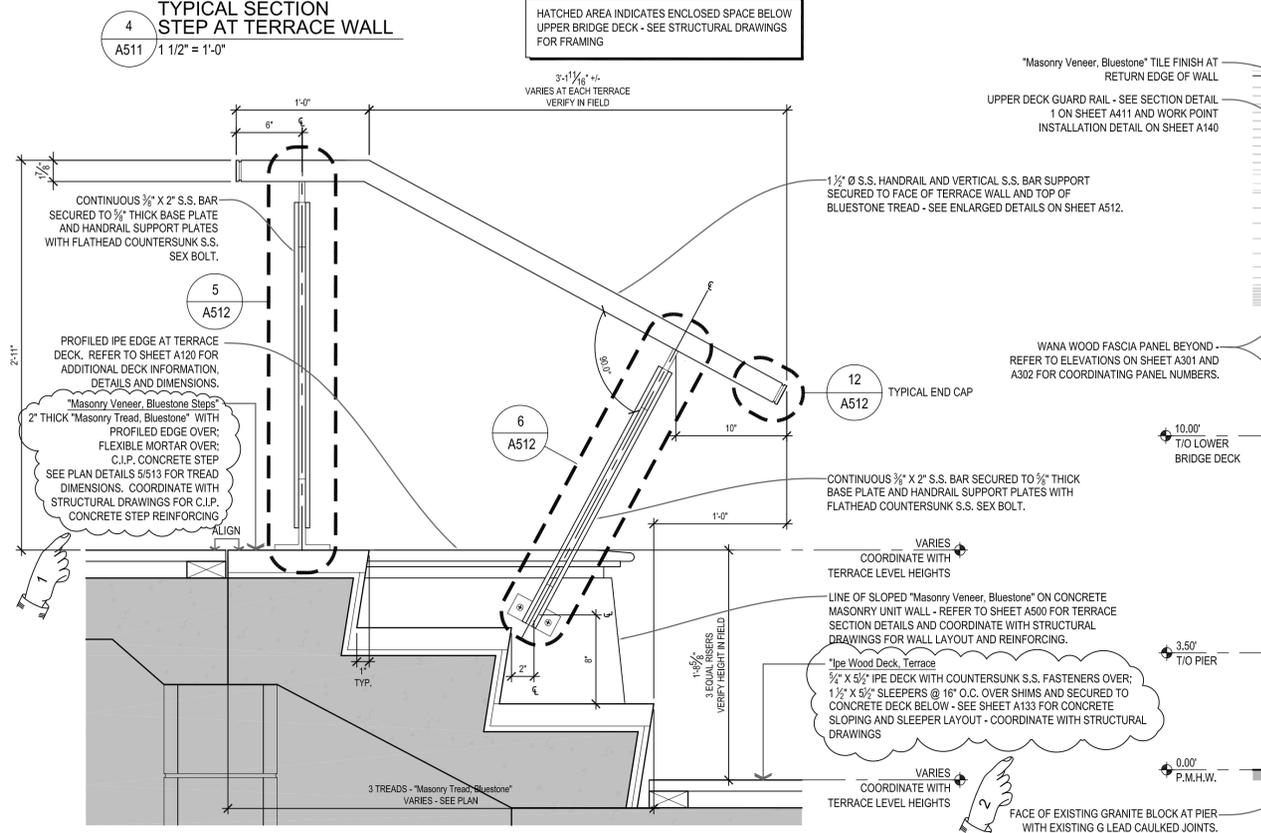
R-2



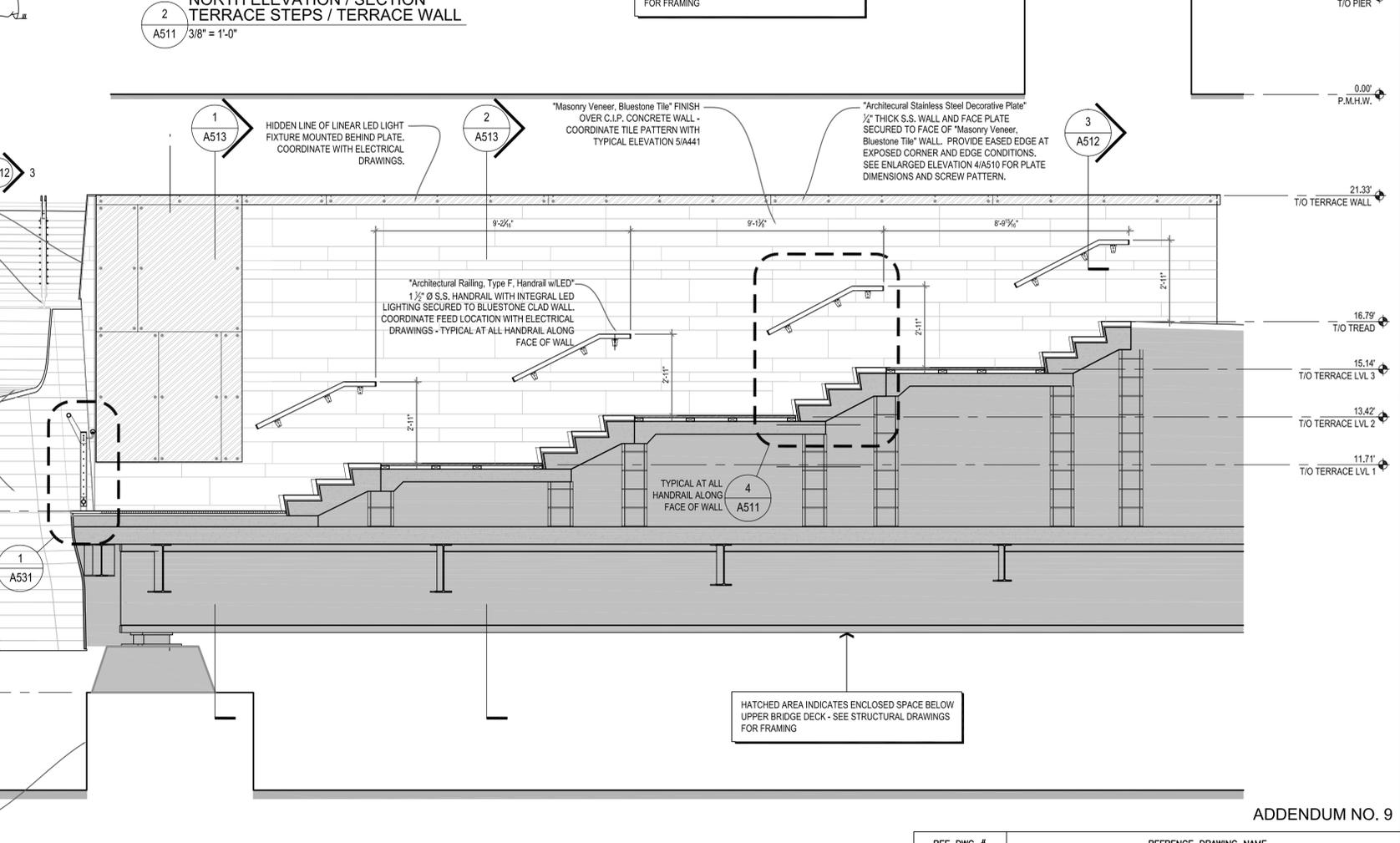
4
A511
TYPICAL SECTION STEP AT TERRACE WALL
1 1/2" = 1'-0"



2
A511
NORTH ELEVATION / SECTION TERRACE STEPS / TERRACE WALL
3/8" = 1'-0"



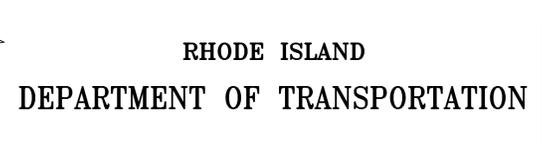
3
A511
TYPICAL SECTION STEP AT OPEN TERRACE
1 1/2" = 1'-0"



1
A511
NORTH ELEVATION / SECTION TERRACE STEPS / TERRACE WALL - LOWER DECK
3/8" = 1'-0"

REF DWG #	REFERENCE DRAWING NAME

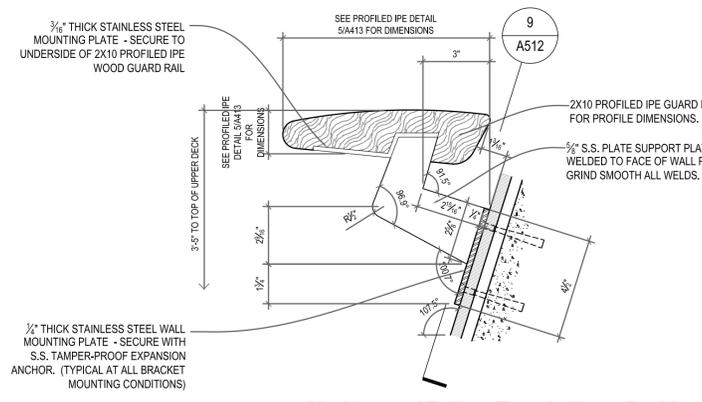
ADDENDUM NO. 9



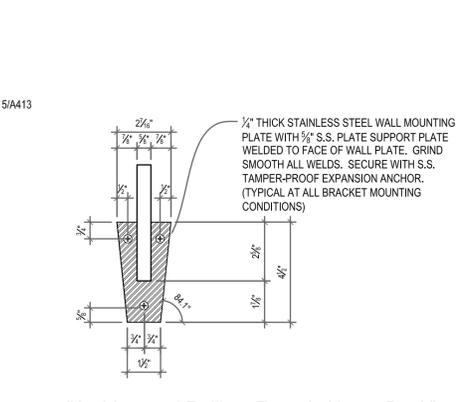
DESIGNED BY:	SCALE:
CHECKED:	
DATE:	
SHEET: V2_061	
OF: V2_163	

IMPROVEMENTS TO INTERSTATE ROUTE 195 CONTRACT 16 VOLUME 2		PROVIDENCE	RHODE ISLAND
TERRACE ELEVATIONS AND SECTIONS WALL AND STEPS		A511	

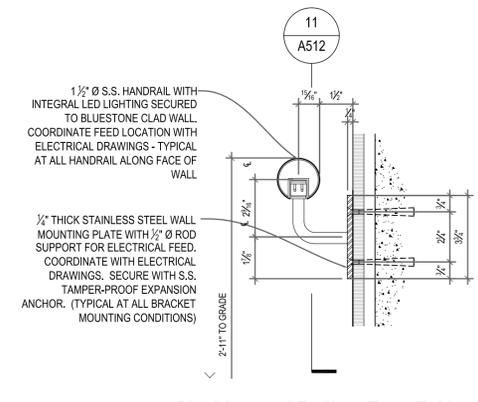
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1	R.I.			V2_062	V2_163



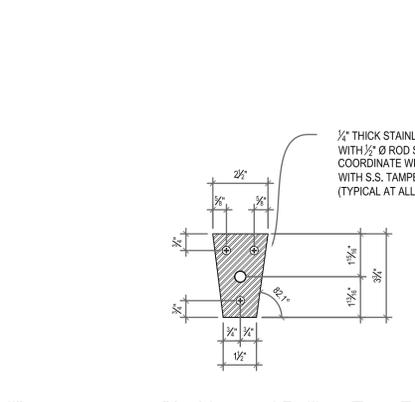
8 "Architectural Railing, Type A, Upper Deck" ENLARGED SECTION
A512 3' = 1'-0"



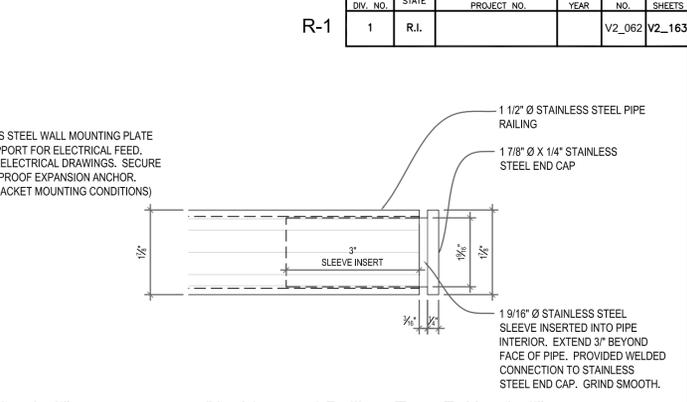
9 "Architectural Railing, Type A, Upper Deck" ENLARGED SECTION
A512 3' = 1'-0"



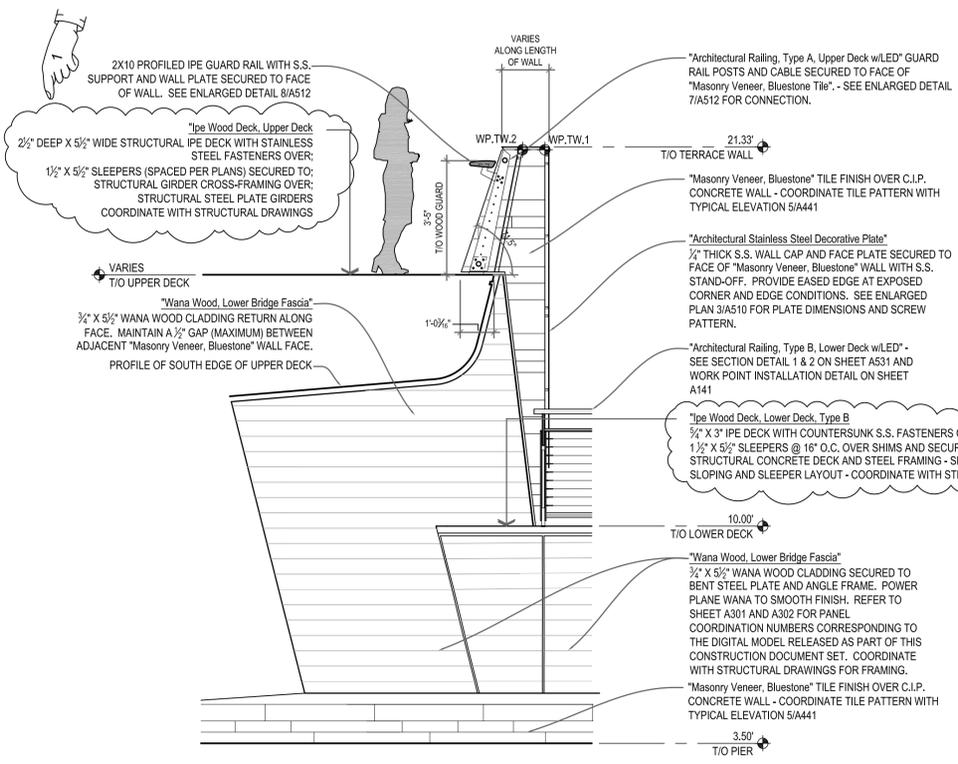
10 "Architectural Railing, Type F, Handrail" ENLARGED SECTION
A512 3' = 1'-0"



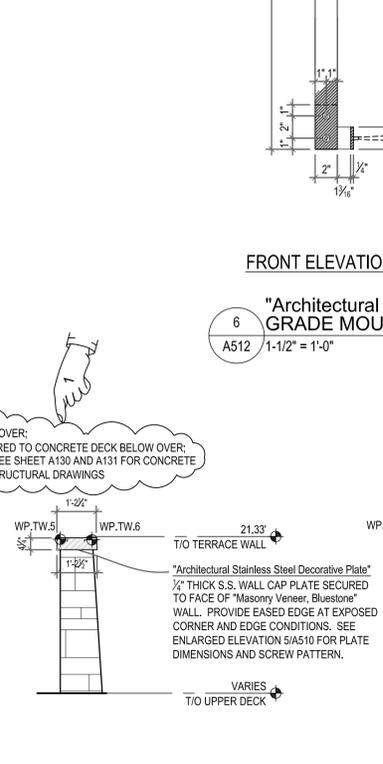
11 "Architectural Railing, Type F, Handrail" ENLARGED SECTION
A512 3' = 1'-0"



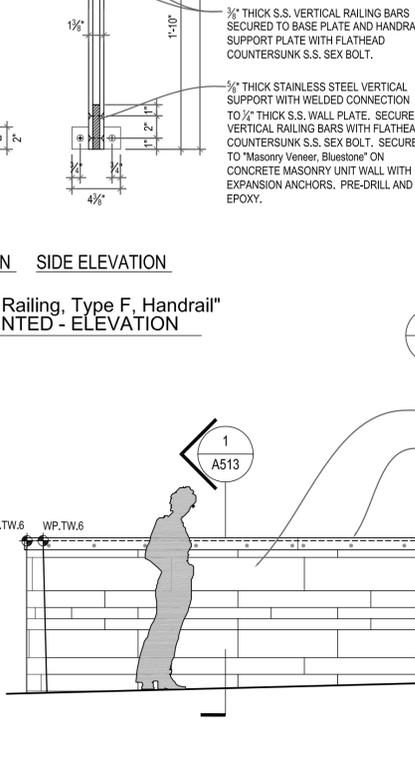
12 "Architectural Railing, Type F, Handrail" END CAP DETAIL
A512 6" = 1'-0"



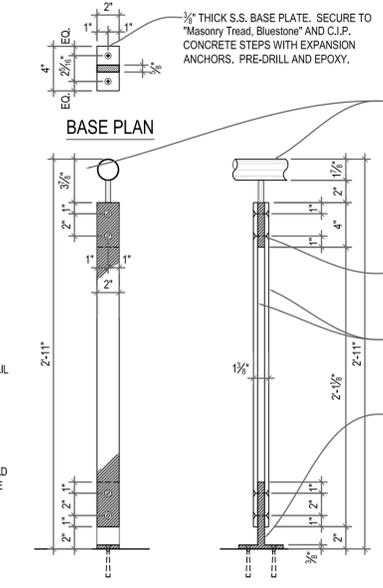
3 WEST ELEVATION TERRACE WALL - UPPER DECK
A512 3/8" = 1'-0"



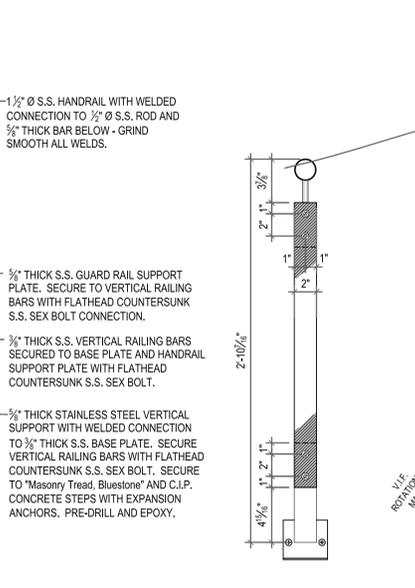
2 EAST ELEVATION TERRACE WALL - UPPER DECK
A512 3/8" = 1'-0"



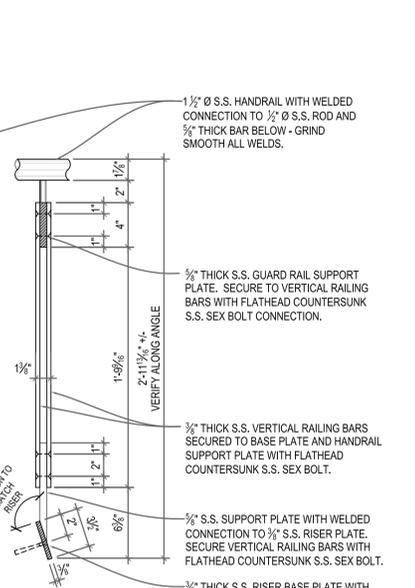
1 NORTH ELEVATION TERRACE WALL - UPPER DECK
A512 3/8" = 1'-0"



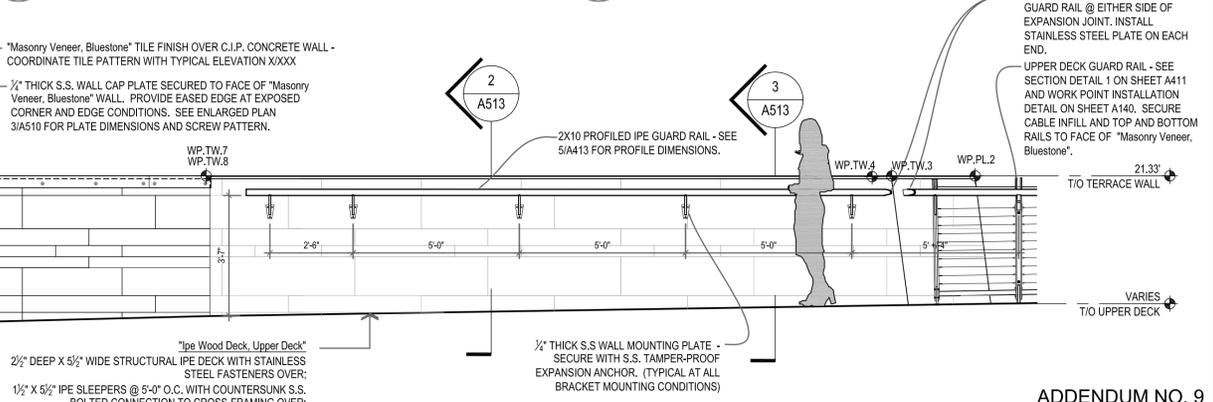
5 "Architectural Railing, Type F, Handrail" GRADE MOUNTED - ELEVATION
A512 1-1/2" = 1'-0"



4 "Architectural Railing, Type F, Handrail" RISER MOUNTED - ELEVATION
A512 1-1/2" = 1'-0"



4 "Architectural Railing, Type F, Handrail" RISER MOUNTED - ELEVATION
A512 1-1/2" = 1'-0"



ADDENDUM NO. 9

REF DWG #	REFERENCE DRAWING NAME



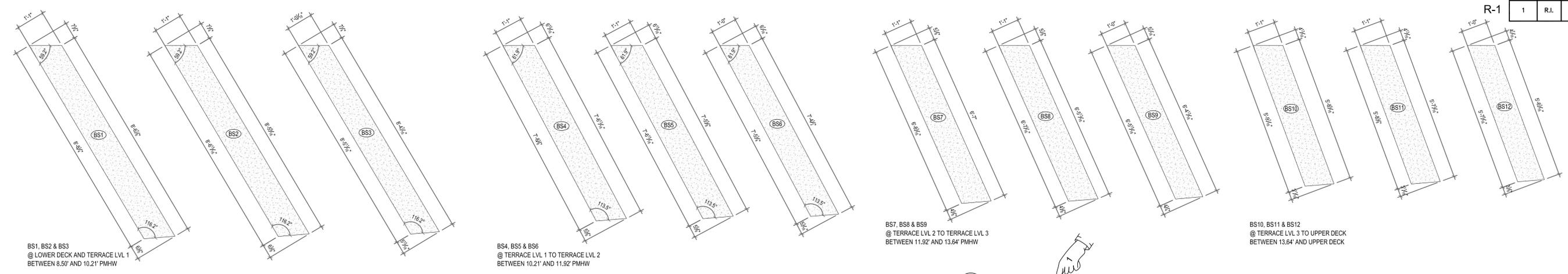
RHODE ISLAND DEPARTMENT OF TRANSPORTATION



DESIGNED BY:
CHECKED:
DATE:
SHEET: V2_062
OF: V2_163

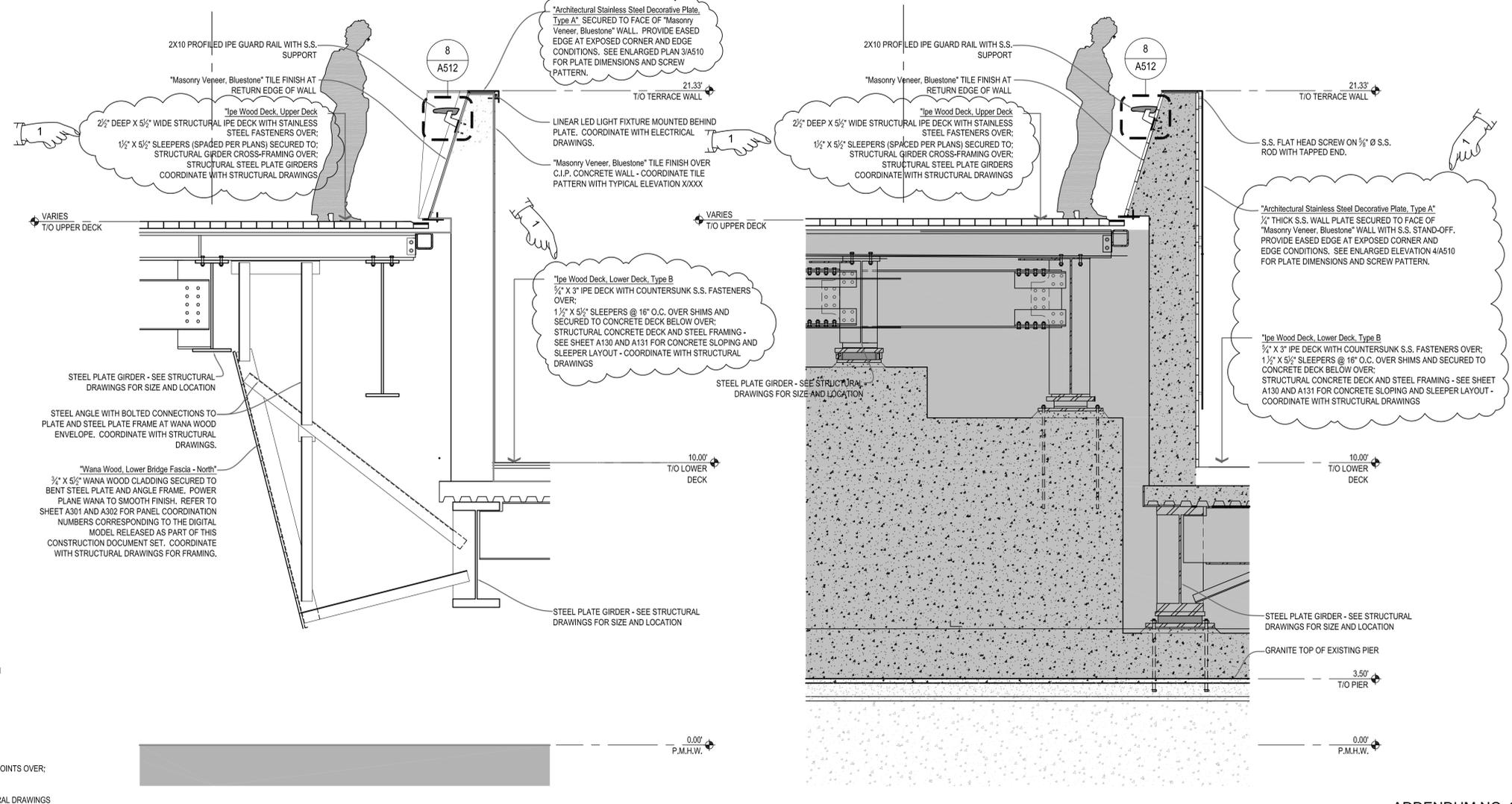
REVISIONS			REVISIONS		
NO.	DATE	BY	NO.	DATE	BY
1	7/8/2016	CL			

IMPROVEMENTS TO INTERSTATE ROUTE 195 CONTRACT 16 VOLUME 2
PROVIDENCE RHODE ISLAND
TERRACE WALL - STAIR AND RAILING DETAILS
A512



"Masonry Veneer, Bluestone Steps" ENLARGED PLANS
A513 1/2" = 1'-0"

BS1 BLUESTONE STEP NUMBER
SEE ENLARGED PLAN 3/A510 FOR "Masonry Veneer, Bluestone Steps" LOCATION.
CONTRACTOR TO PROVIDE SIZE AND QUANTITIES AS INDICATED AND INSTALL PER
PLAN AND SECTIONS. HARD COPY DRAWINGS SHALL ONLY BE USED FOR REFERENCE.
CONTRACTOR TO FIELD VERIFY SIZE PRIOR TO FABRICATION AND NOTIFY ARCHITECT
OF ANY DISCREPANCY.



"Architectural Stainless Steel Decorative Plate, Type A" 1/2" THICK S.S. WALL CAP PLATE WITH TAMPER-PROOF COUNTERSUNK S.S. SCREWS OVER:
1/2" X 3 1/2" IPE BLOCKING SECURED TO FACE OF "Masonry Veneer, Bluestone" WALL. PROVIDE EASED EDGE AT EXPOSED CORNER AND EDGE CONDITIONS. SEE ENLARGED PLAN 3/A510 FOR PLATE DIMENSIONS AND SCREW PATTERN.

ENLARGED SECTION TERRACE WALL CAP
A513 3" = 1'-0"

NORTH ELEVATION TERRACE WALL - UPPER DECK
A513 1/2" = 1'-0"

NORTH ELEVATION TERRACE WALL - UPPER DECK
A513 1/2" = 1'-0"

ADDENDUM NO. 9

REF DWG #	REFERENCE DRAWING NAME



RHODE ISLAND
DEPARTMENT OF TRANSPORTATION



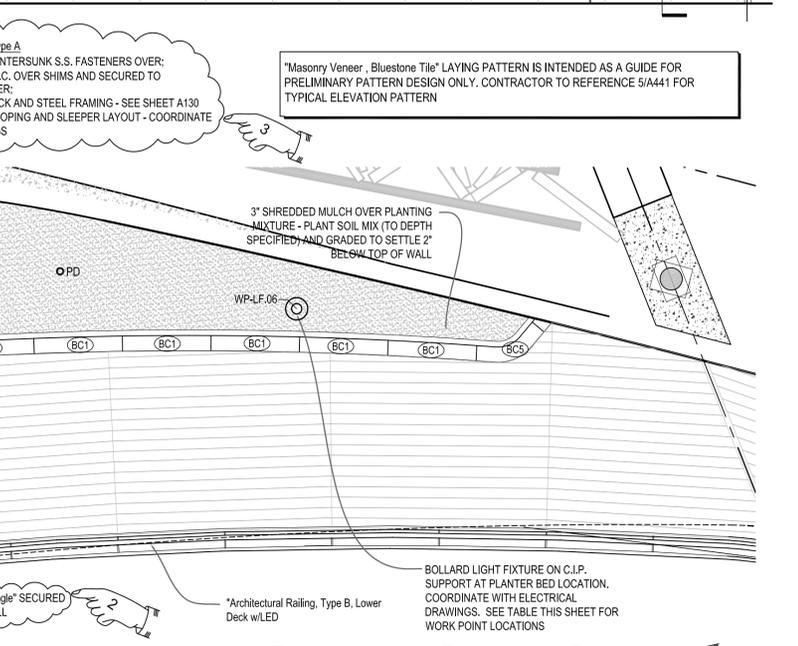
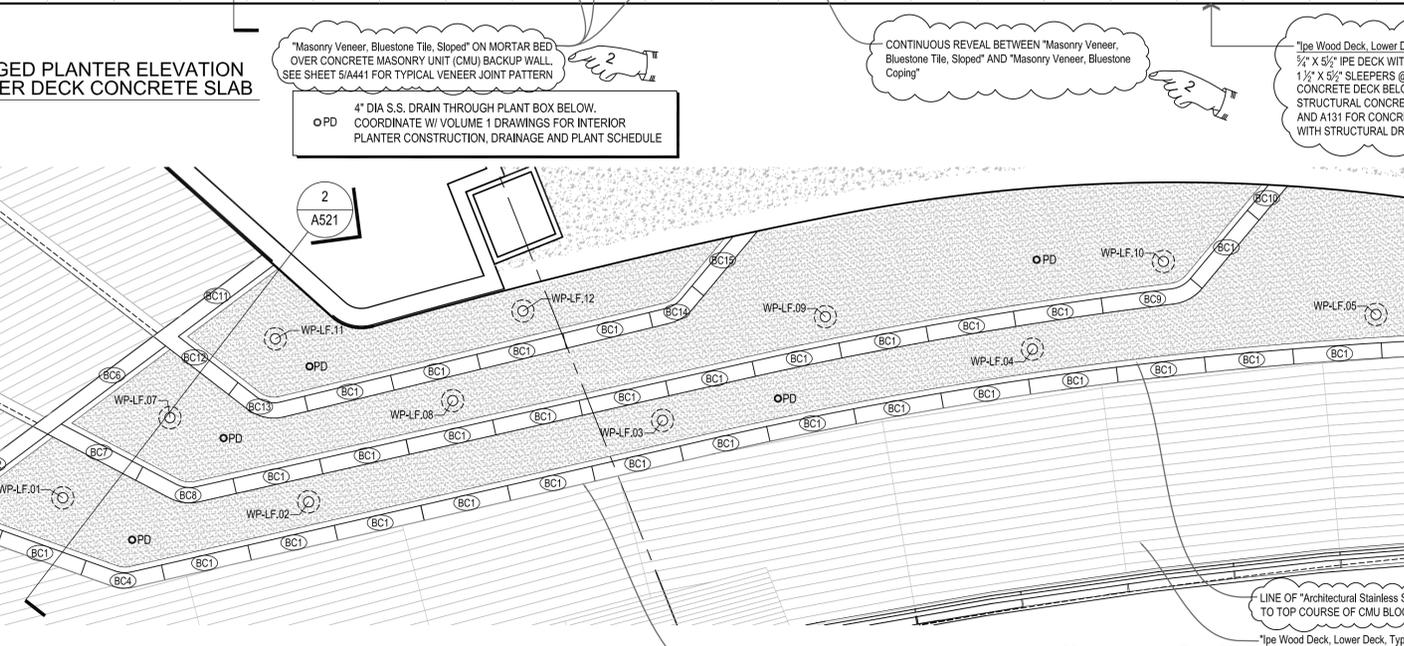
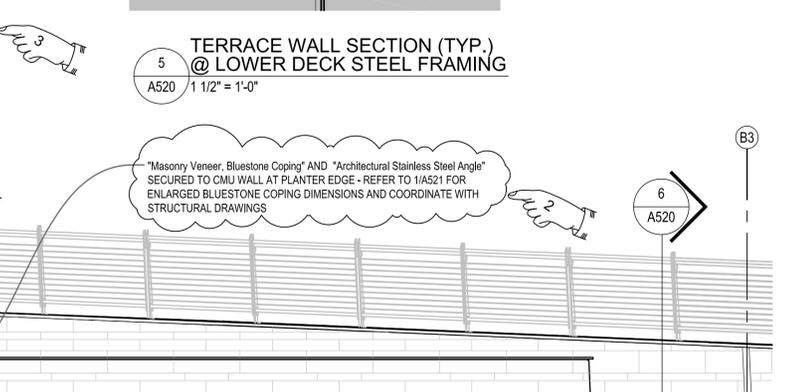
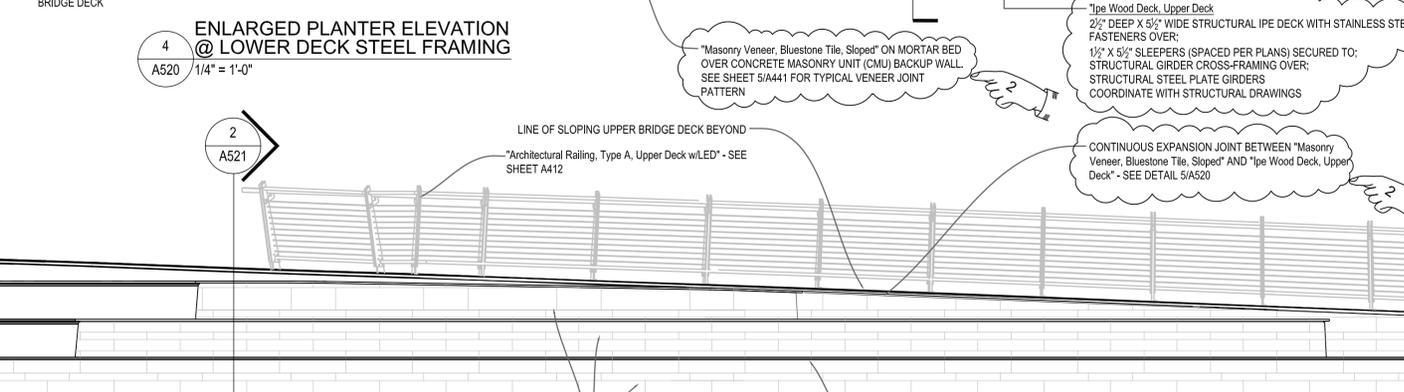
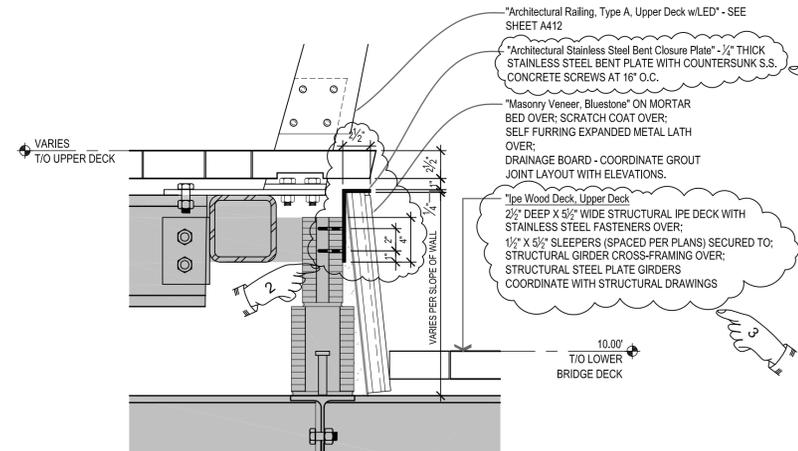
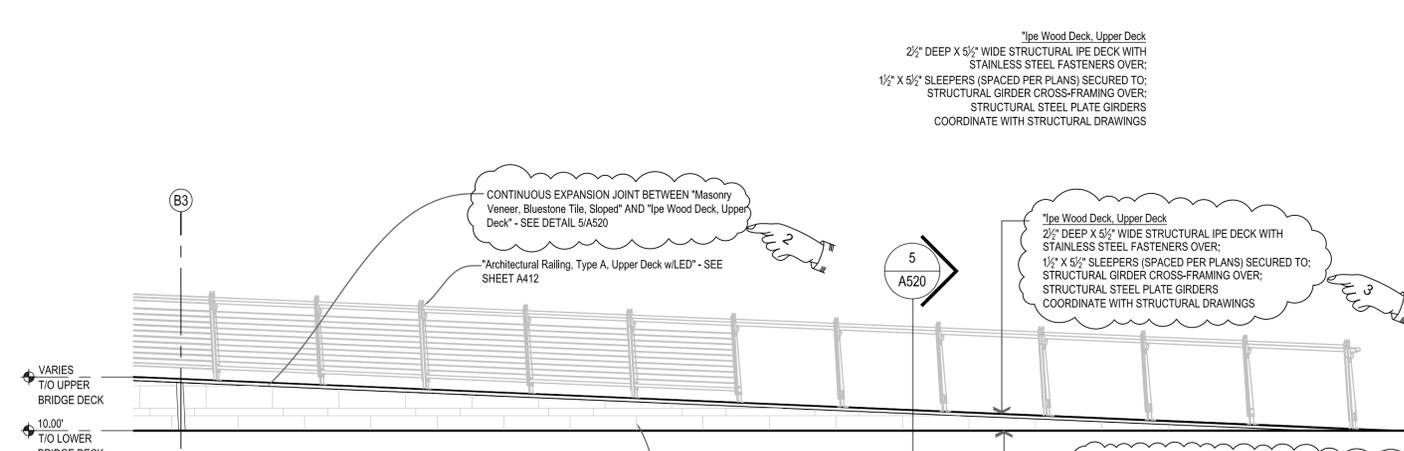
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CHECKED:
DATE:
SHEET: V2_063
OF: V2_163

SCALE:

REVISIONS			REVISIONS		
NO.	DATE	BY	NO.	DATE	BY
1	7/8/2016	CL			

IMPROVEMENTS TO INTERSTATE ROUTE 195
CONTRACT 16 VOLUME 2
PROVIDENCE RHODE ISLAND
TERRACE WALL - SECTIONS AND DETAILS
A513

R-3



PLAN DATA

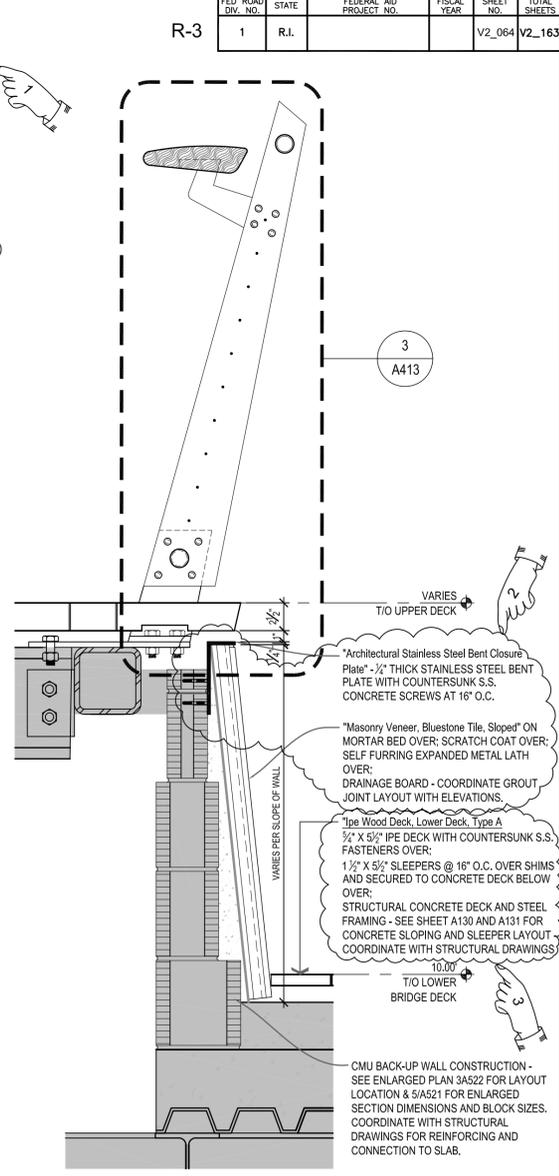
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WP-LF.3	3465.60	48.66 RIGHT	09.44 (PMHW)	
WP-LF.4	3482.29	51.85 RIGHT	09.44 (PMHW)	
WP-LF.5	3497.26	56.13 RIGHT	09.44 (PMHW)	
WP-LF.6	4+12.31	61.83 RIGHT	09.44 (PMHW)	
WP-LF.7	3+45.00	40.34 RIGHT	11.50 (PMHW)	
WP-LF.8	3+57.13	44.34 RIGHT	11.50 (PMHW)	
WP-LF.9	3+74.14	47.05 RIGHT	11.50 (PMHW)	
WP-LF.10	3+89.23	50.38 RIGHT	11.50 (PMHW)	
WP-LF.11	3+50.72	38.81 RIGHT	13.21 (PMHW)	
WP-LF.12	3+61.56	41.77 RIGHT	13.21 (PMHW)	

PLAN DATA

PLAN DATA

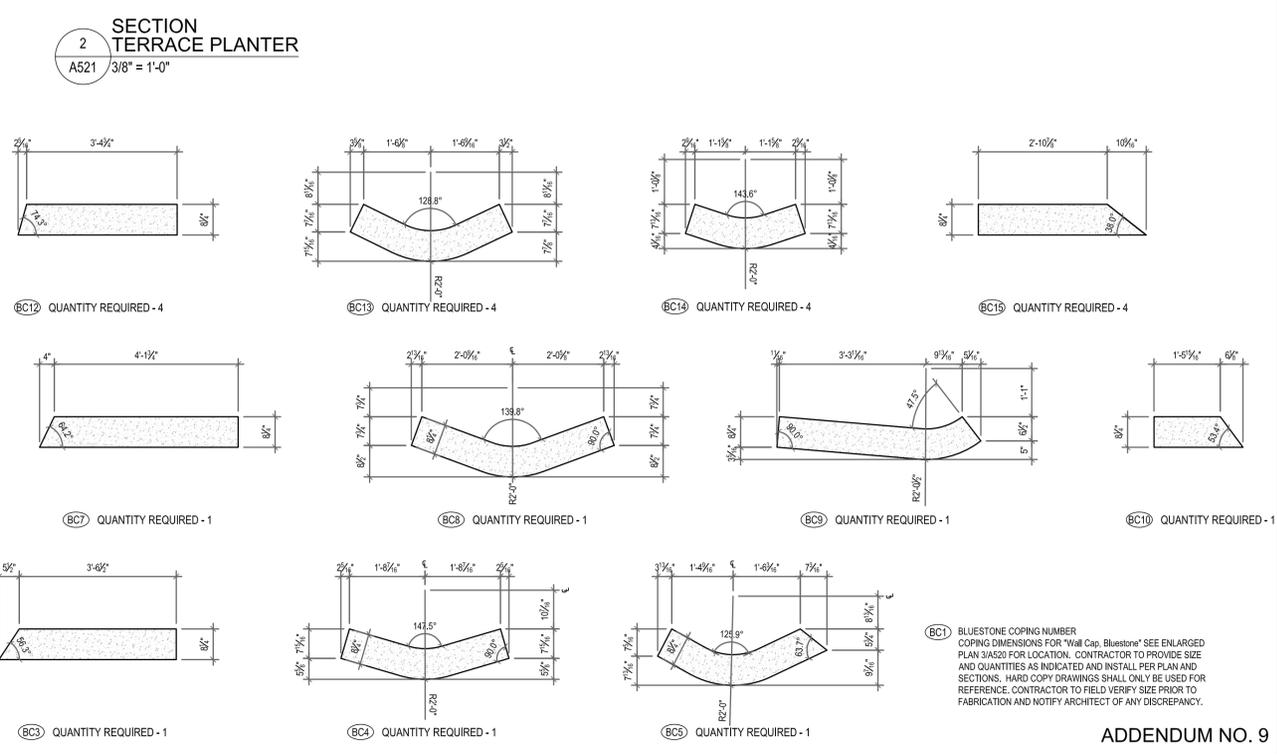
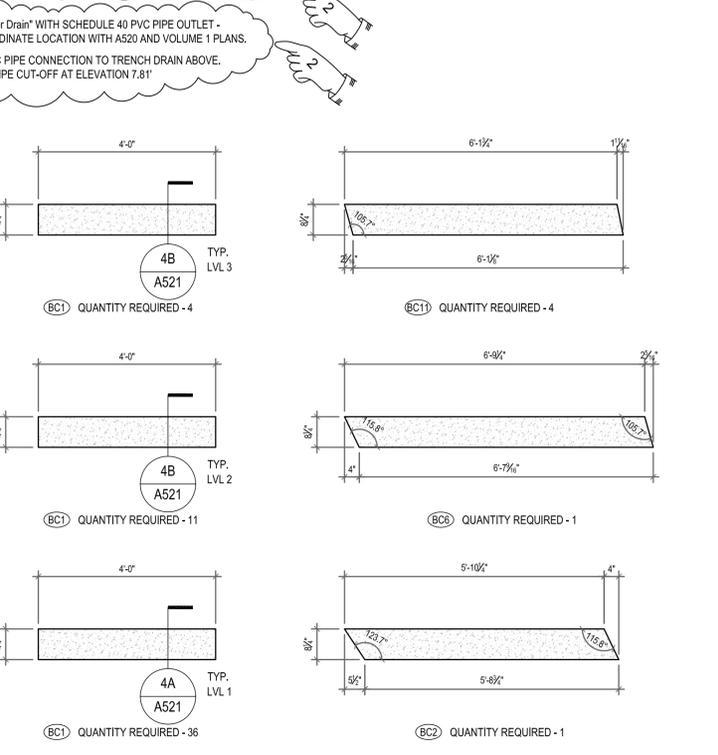
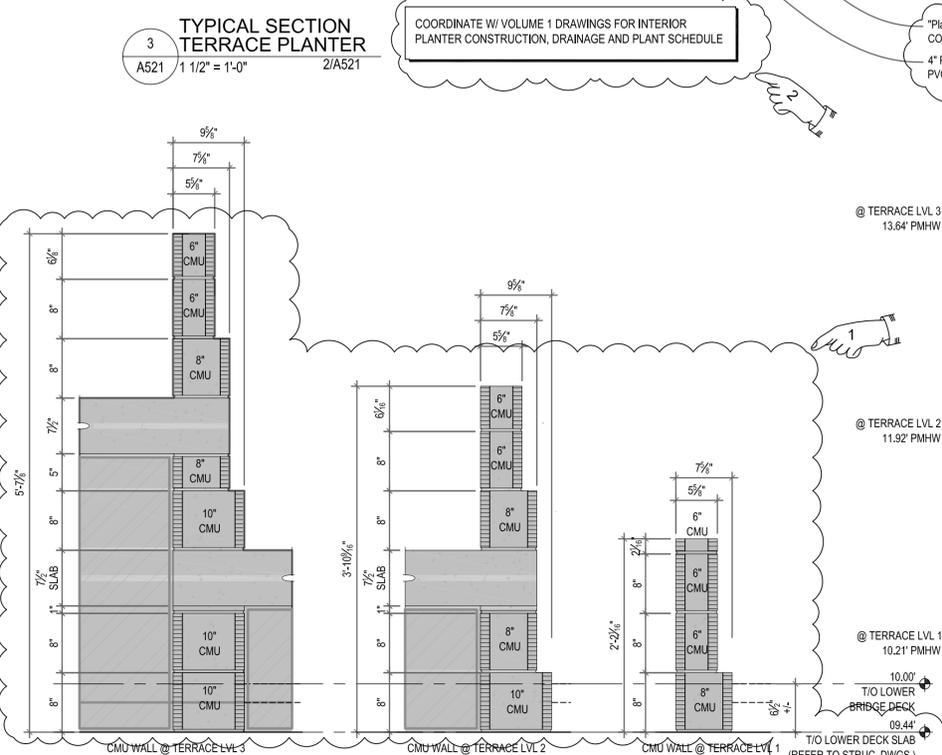
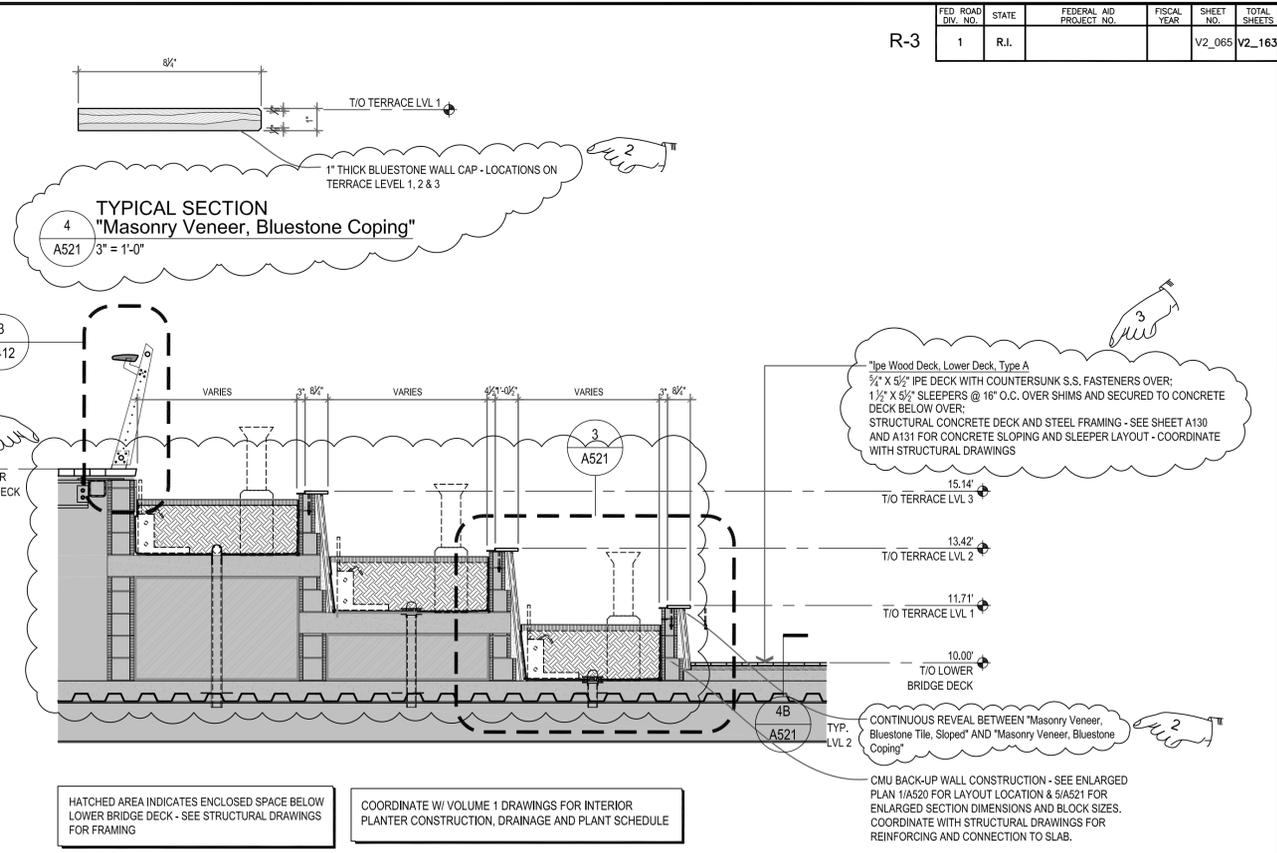
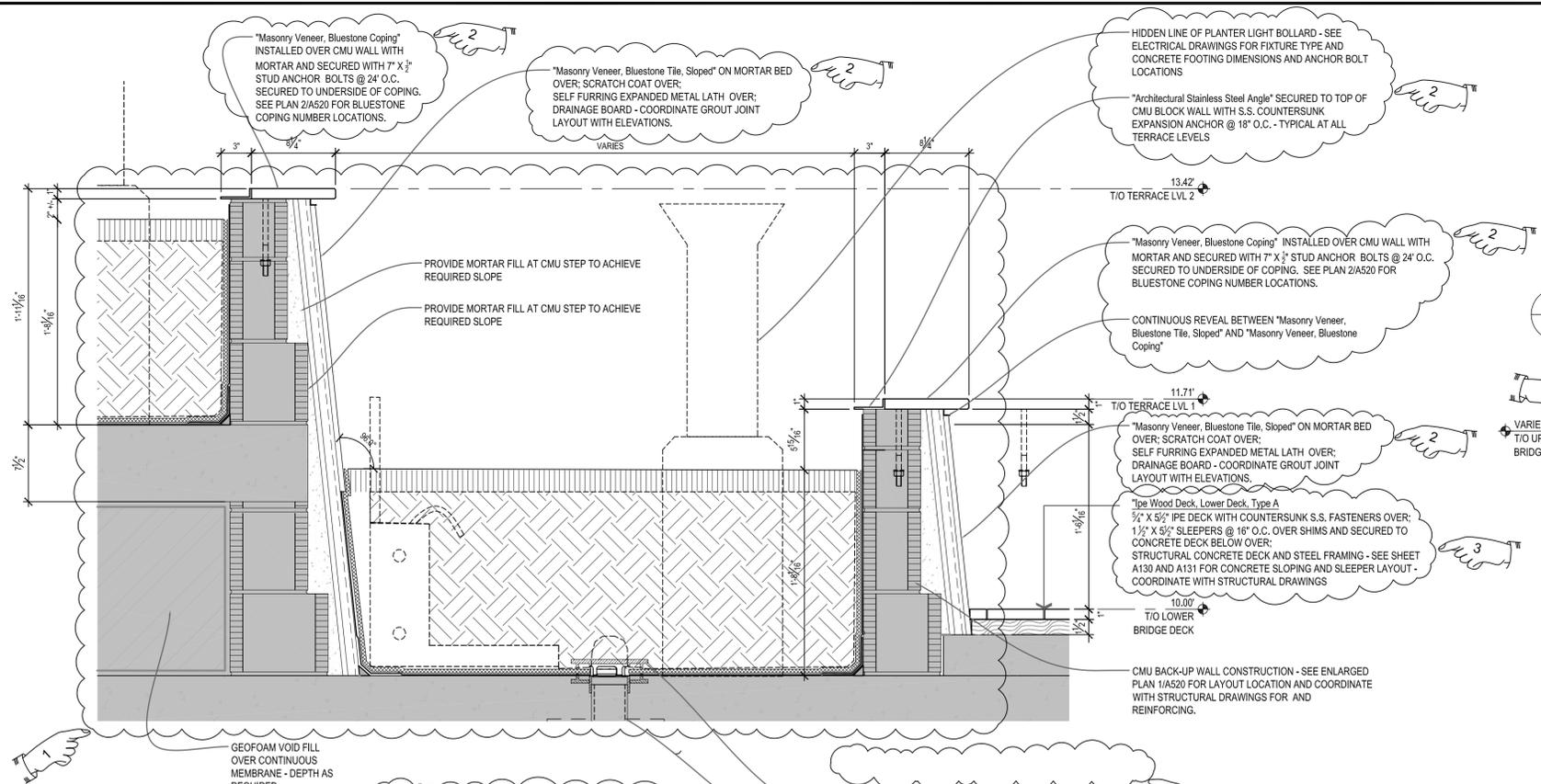
NOTES:
REFER TO LANDSCAPE DRAWINGS FOR ALL PLANTING DETAILS, SCHEDULES, AND REQUIREMENTS - SEE VOLUME 1.

BC1) BLUESTONE COPING NUMBER FOR INDIVIDUAL COPING DIMENSIONS FOR "Wall Cap, Bluestone" SEE DETAIL 1 ON SHEET A521. CONTRACTOR TO PROVIDE SIZE AND QUANTITIES AS INDICATED AND INSTALL PER PLAN AND SECTIONS. HARD COPY DRAWINGS SHALL ONLY BE USED FOR REFERENCE. CONTRACTOR TO FIELD VERIFY SIZE PRIOR TO FABRICATION AND NOTIFY ARCHITECT OF ANY DISCREPANCY.



ADDENDUM NO. 9

REF DWG #	REFERENCE DRAWING NAME



COORDINATE W/ VOLUME 1 DRAWINGS FOR INTERIOR PLANTER CONSTRUCTION, DRAINAGE AND PLANT SCHEDULE FOR FRAMING

COORDINATE W/ VOLUME 1 DRAWINGS FOR INTERIOR PLANTER CONSTRUCTION, DRAINAGE AND PLANT SCHEDULE FOR FRAMING

CONTINUOUS REVEAL BETWEEN "Masonry Veneer, Bluestone Tile, Sloped" AND "Masonry Veneer, Bluestone Coping"

CONTINUOUS REVEAL BETWEEN "Masonry Veneer, Bluestone Tile, Sloped" AND "Masonry Veneer, Bluestone Coping"

CMU BACK-UP WALL CONSTRUCTION - SEE ENLARGED PLAN 1/A520 FOR LAYOUT LOCATION AND COORDINATE WITH STRUCTURAL DRAWINGS FOR AND REINFORCING.

CMU BACK-UP WALL CONSTRUCTION - SEE ENLARGED PLAN 1/A520 FOR LAYOUT LOCATION & 5/A521 FOR ENLARGED SECTION DIMENSIONS AND BLOCK SIZES. COORDINATE WITH STRUCTURAL DRAWINGS FOR REINFORCING AND CONNECTION TO SLAB.

BLUESTONE COPING NUMBER
 COPING DIMENSIONS FOR "Wall Cap, Bluestone" SEE ENLARGED PLAN 3/A520 FOR LOCATION. CONTRACTOR TO PROVIDE SIZE AND QUANTITIES AS INDICATED AND INSTALL PER PLAN AND SECTIONS. HARD COPY DRAWINGS SHALL ONLY BE USED FOR REFERENCE. CONTRACTOR TO FIELD VERIFY SIZE PRIOR TO FABRICATION AND NOTIFY ARCHITECT OF ANY DISCREPANCY.

ADDENDUM NO. 9

REF DWG #	REFERENCE DRAWING NAME



RHODE ISLAND
 DEPARTMENT OF TRANSPORTATION



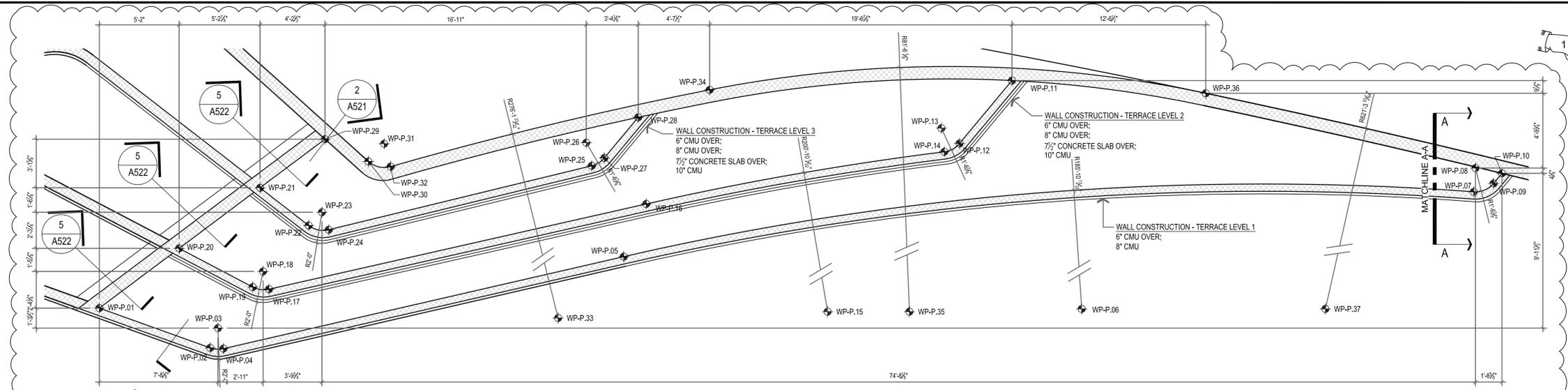
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 CHECKED:
 DATE:
 SHEET: V2_065
 OF: V2_163

SCALE:

REVISIONS			REVISIONS		
NO.	DATE	BY	NO.	DATE	BY
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2	7/6/2016	CL			
3	7/8/2016	CL			

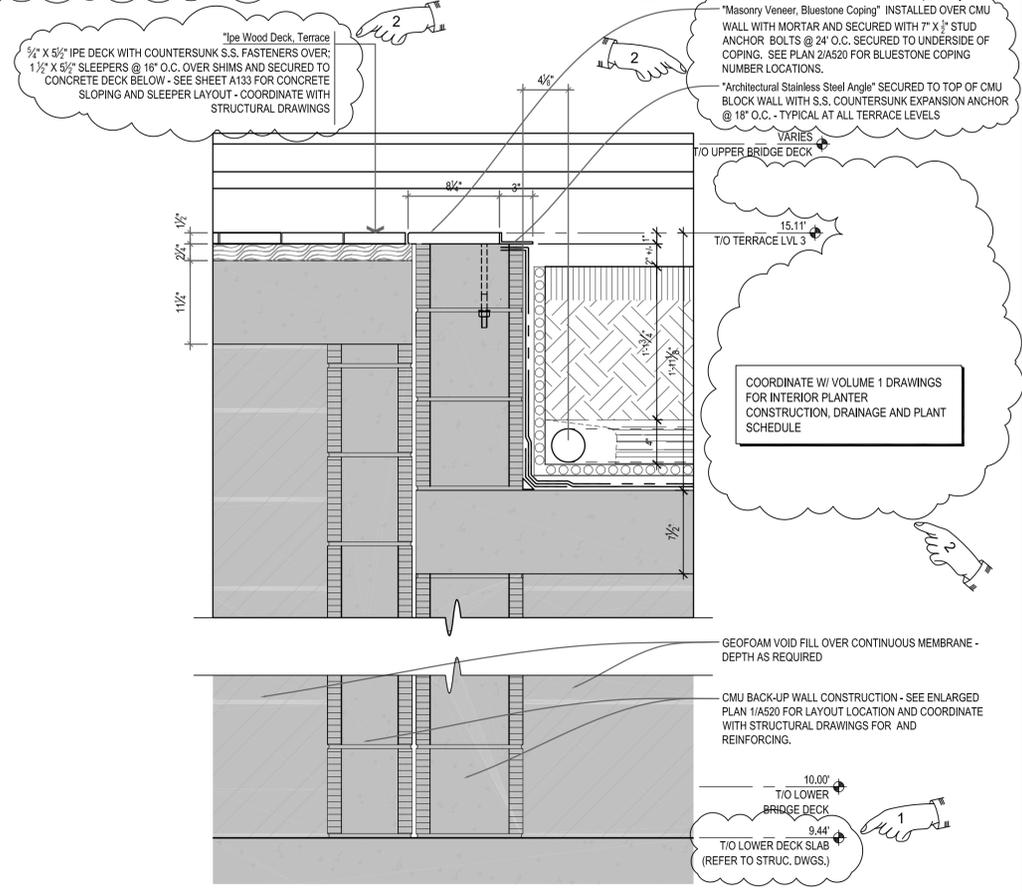
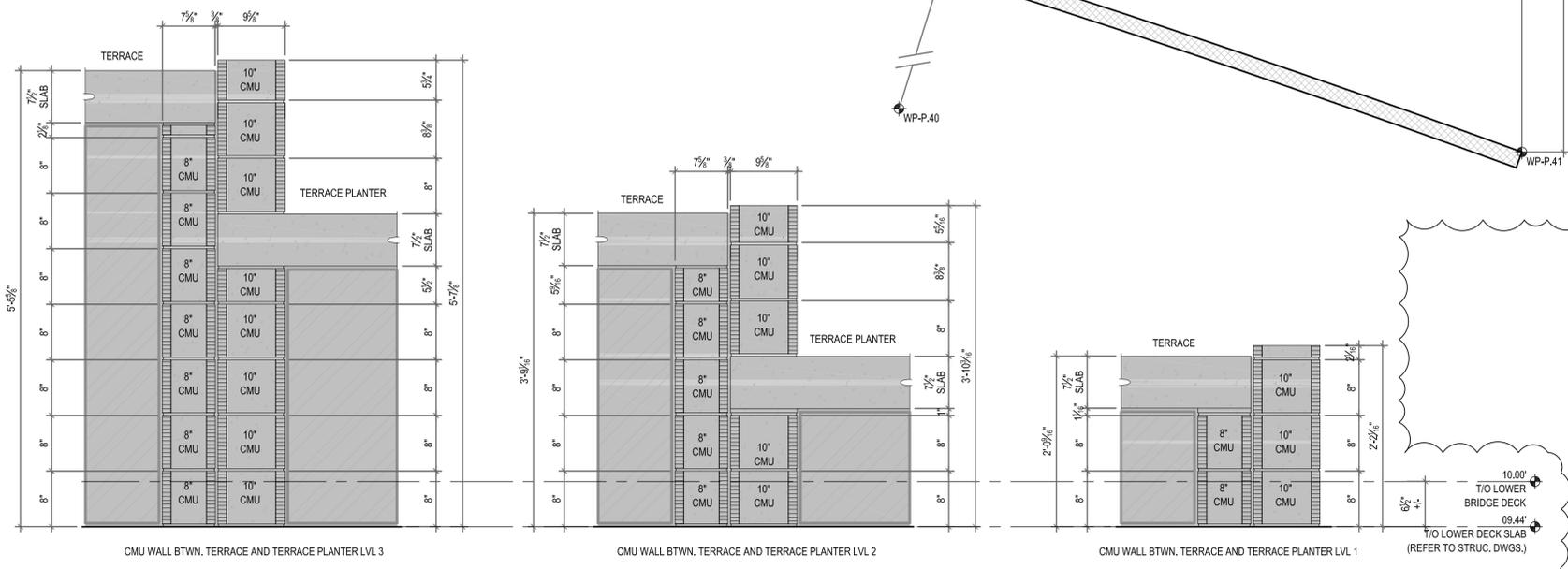
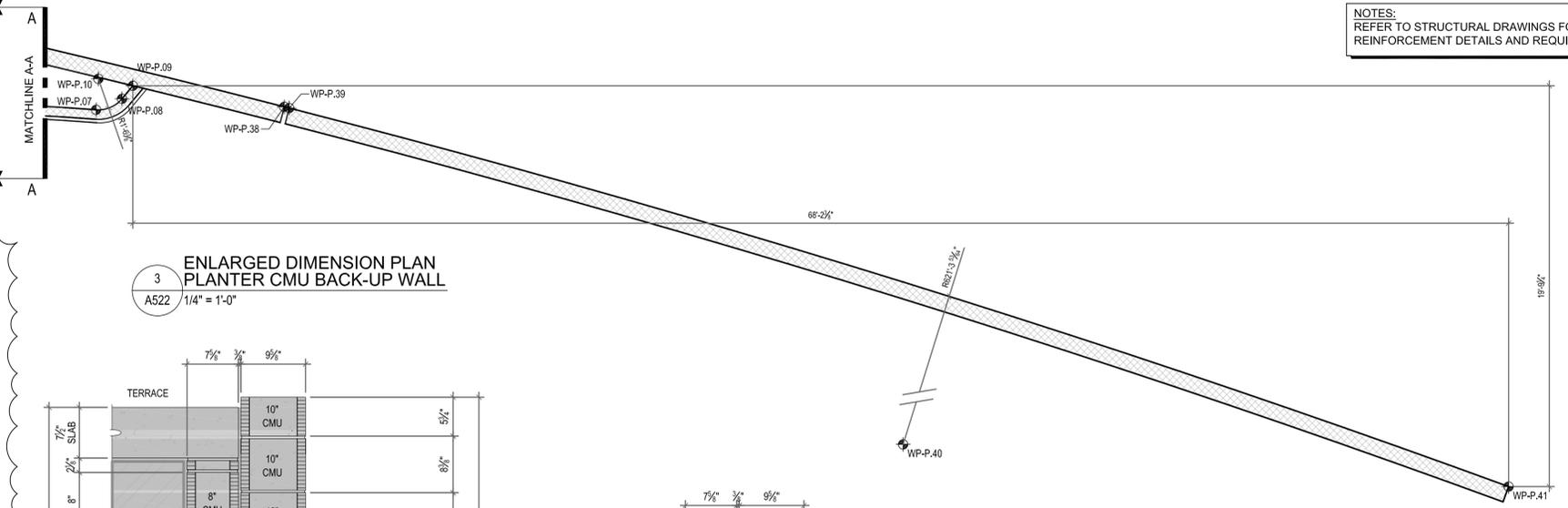
IMPROVEMENTS TO
 INTERSTATE ROUTE 195
 CONTRACT 16 VOLUME 2
 PROVIDENCE RHODE ISLAND

ENLARGED PLANTER SECTIONS AND DETAILS A521



WORK POINT	PLAN DATA			PLAN DATA			
	STATION	STATION OFFSET	ELEVATION	STATION	STATION OFFSET	ELEVATION	
WP-P.1	3+34.43	40.57 RIGHT	09.44 (PMHW)	WP-P.22	3+49.11	40.83 RIGHT	09.44 (PMHW)
WP-P.2	3+40.27	45.70 RIGHT	09.44 (PMHW)	WP-P.23	3+50.08	40.25 RIGHT	09.44 (PMHW)
WP-P.3	3+41.02	44.84 RIGHT	09.44 (PMHW)	WP-P.24	3+49.93	41.37 RIGHT	09.44 (PMHW)
WP-P.4	3+40.84	45.97 RIGHT	09.44 (PMHW)	WP-P.25	3+67.58	43.90 RIGHT	09.44 (PMHW)
WP-P.5	3+67.23	50.05 RIGHT	09.44 (PMHW)	WP-P.26	3+67.76	42.62 RIGHT	09.44 (PMHW)
WP-P.6	3+38.82	233.73 RIGHT	09.44 (PMHW)	WP-P.27	3+68.37	43.76 RIGHT	09.44 (PMHW)
WP-P.7	4+20.10	66.58 RIGHT	09.44 (PMHW)	WP-P.28	3+71.51	42.08 RIGHT	09.44 (PMHW)
WP-P.8	4+20.60	65.56 RIGHT	09.44 (PMHW)	WP-P.29	3+52.03	35.85 RIGHT	09.44 (PMHW)
WP-P.9	4+21.13	66.57 RIGHT	09.44 (PMHW)	WP-P.30	3+54.01	38.52 RIGHT	09.44 (PMHW)
WP-P.10	4+22.05	66.07 RIGHT	09.44 (PMHW)	WP-P.31	3+55.21	37.92 RIGHT	09.44 (PMHW)
WP-P.11	3+94.77	48.80 RIGHT	09.44 (PMHW)	WP-P.32	3+55.05	39.25 RIGHT	09.44 (PMHW)
WP-P.12	3+89.98	51.38 RIGHT	09.44 (PMHW)	WP-P.33	3+25.48	313.81 RIGHT	09.44 (PMHW)
WP-P.13	3+89.46	50.41 RIGHT	09.44 (PMHW)	WP-P.34	3+78.10	42.72 RIGHT	09.44 (PMHW)
WP-P.14	3+89.18	51.48 RIGHT	09.44 (PMHW)	WP-P.35	3+61.09	122.48 RIGHT	09.44 (PMHW)
WP-P.15	3+38.39	245.80 RIGHT	09.44 (PMHW)	WP-P.36	4+03.30	52.70 RIGHT	09.44 (PMHW)
WP-P.16	3+69.92	47.44 RIGHT	09.44 (PMHW)	WP-P.37	0+64.07	573.24 RIGHT	09.44 (PMHW)
WP-P.17	3+44.98	43.49 RIGHT	09.44 (PMHW)	WP-P.38	4+28.41	69.95 RIGHT	09.44 (PMHW)
WP-P.18	3+45.16	42.35 RIGHT	09.44 (PMHW)	WP-P.39	4+28.66	70.13 RIGHT	09.65 (PMHW)
WP-P.19	3+44.29	43.10 RIGHT	09.44 (PMHW)	WP-P.40	0+64.07	573.24 RIGHT	09.64 (PMHW)
WP-P.20	3+40.66	38.90 RIGHT	09.44 (PMHW)	WP-P.41	4+77.99	109.80 RIGHT	09.65 (PMHW)
WP-P.21	3+46.96	37.21 RIGHT	09.44 (PMHW)				

NOTES:
 REFER TO STRUCTURAL DRAWINGS FOR ALL CMU WALL GROUTING AND REINFORCEMENT DETAILS AND REQUIREMENTS.



ADDENDUM NO. 9

REF DWG #	REFERENCE DRAWING NAME



RHODE ISLAND
 DEPARTMENT OF TRANSPORTATION



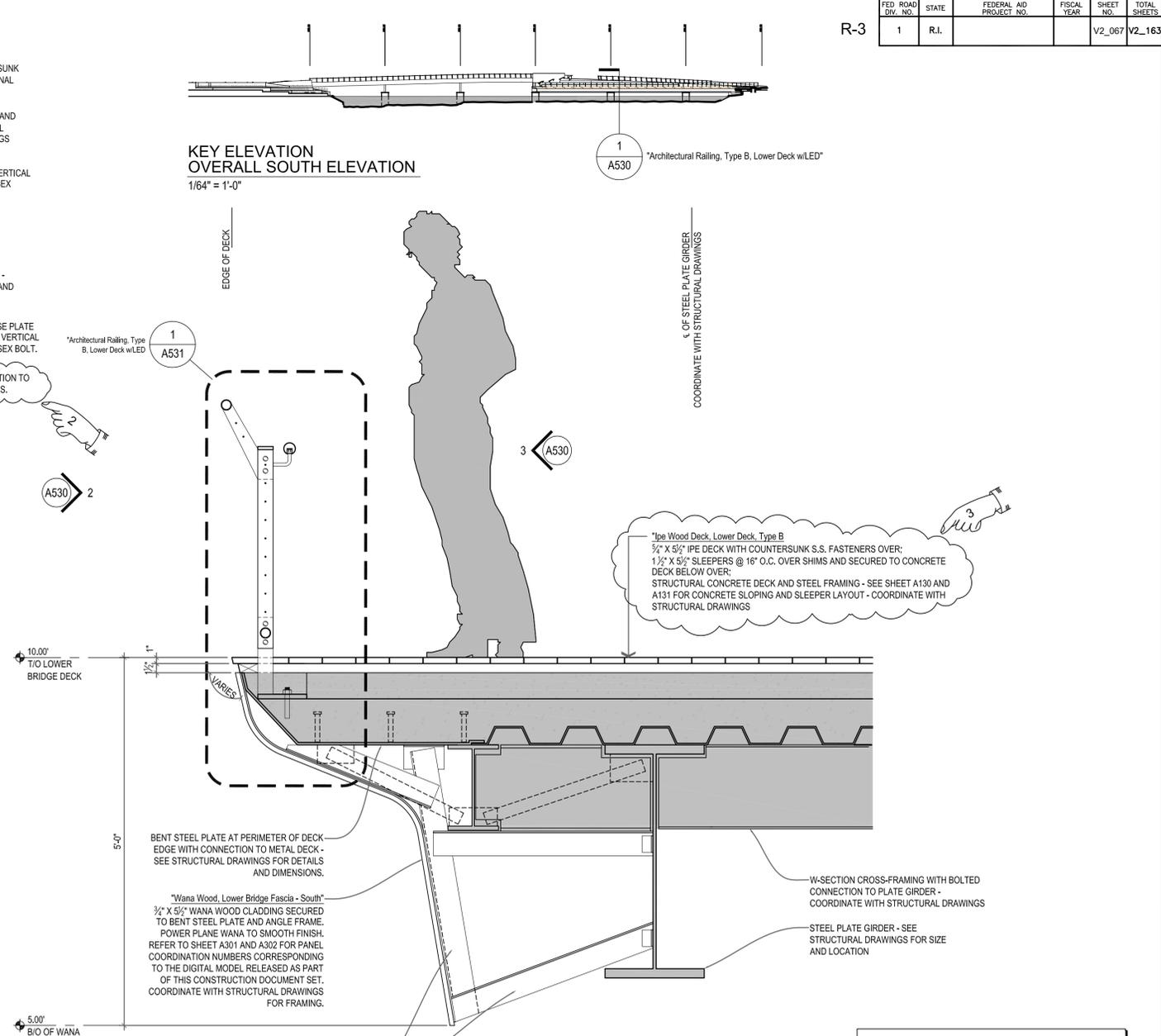
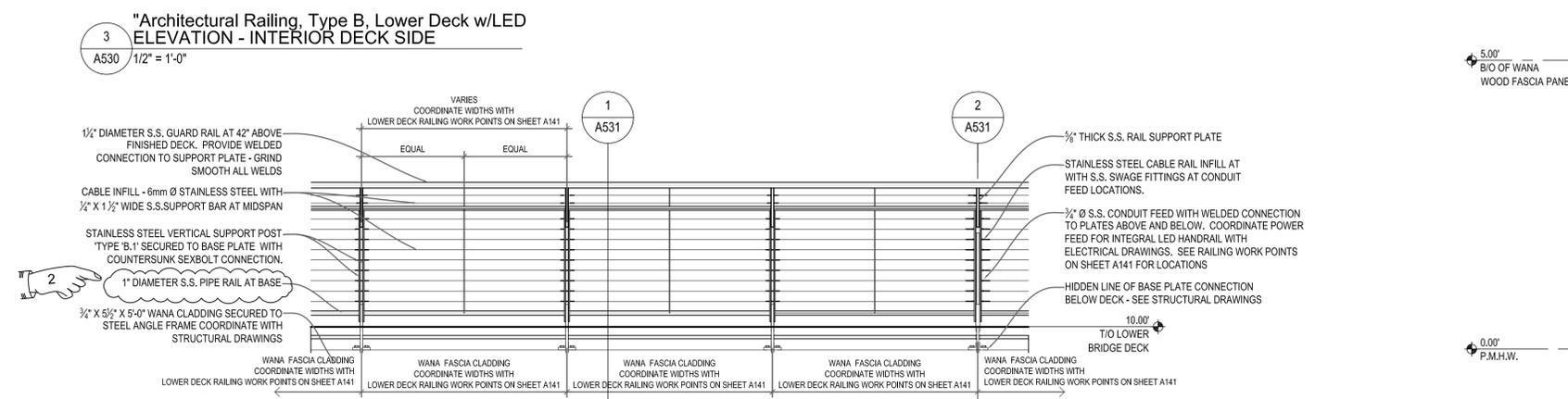
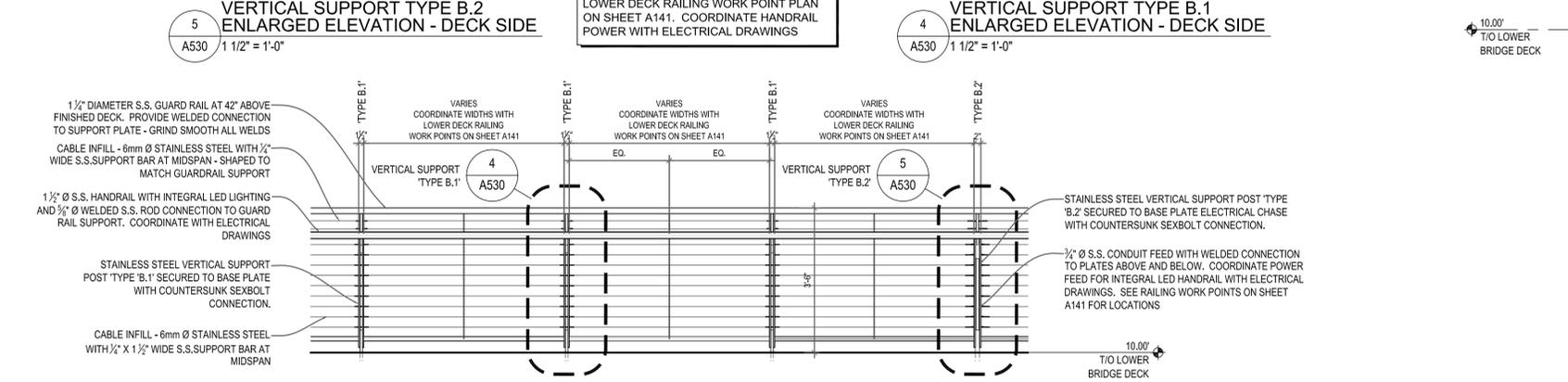
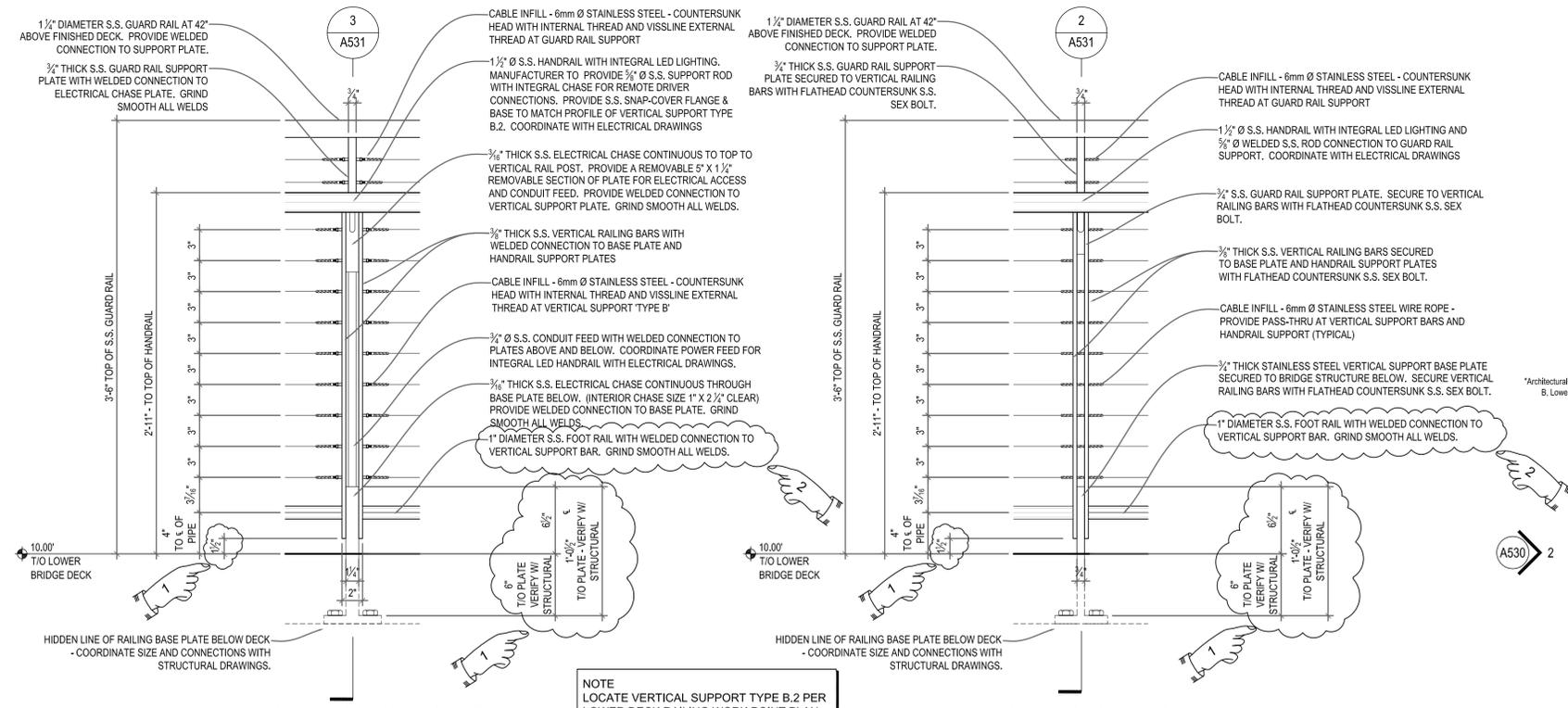
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 CHECKED:
 DATE:
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 OF: V2_163

SCALE:

REVISIONS			REVISIONS		
NO.	DATE	BY	NO.	DATE	BY
1	6/14/2016	CL			
2	7/8/2016	CL			

IMPROVEMENTS TO
 INTERSTATE ROUTE 195
 CONTRACT 16 VOLUME 2
 PROVIDENCE RHODE ISLAND

TERRACE WALL SECTIONS AND DETAILS
 A522



NOTE - ALL STRUCTURAL STEEL AND FASCIA SUPPORT STEEL COMPONENTS TO RECEIVE THERMAL SPRAYED ZINC COATING PER SECTION 827 AND PAINTED PER SECTION 825

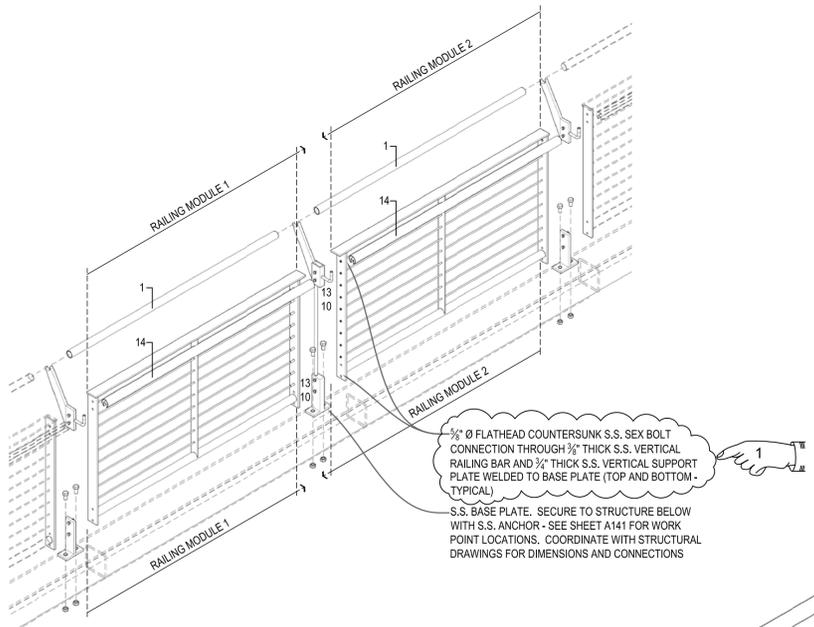
NOTE - ALL ELEVATIONS REFER TO PROVIDENCE MEAN HIGH WATER (PMHW) DATUM = 0.0' PROVIDENCE MEAN HIGH WATER (PMHW) = +1.54 NAVD 1988

HATCHED AREA INDICATES ENCLOSED SPACE BELOW LOWER BRIDGE DECK - SEE STRUCTURAL DRAWINGS FOR FRAMING

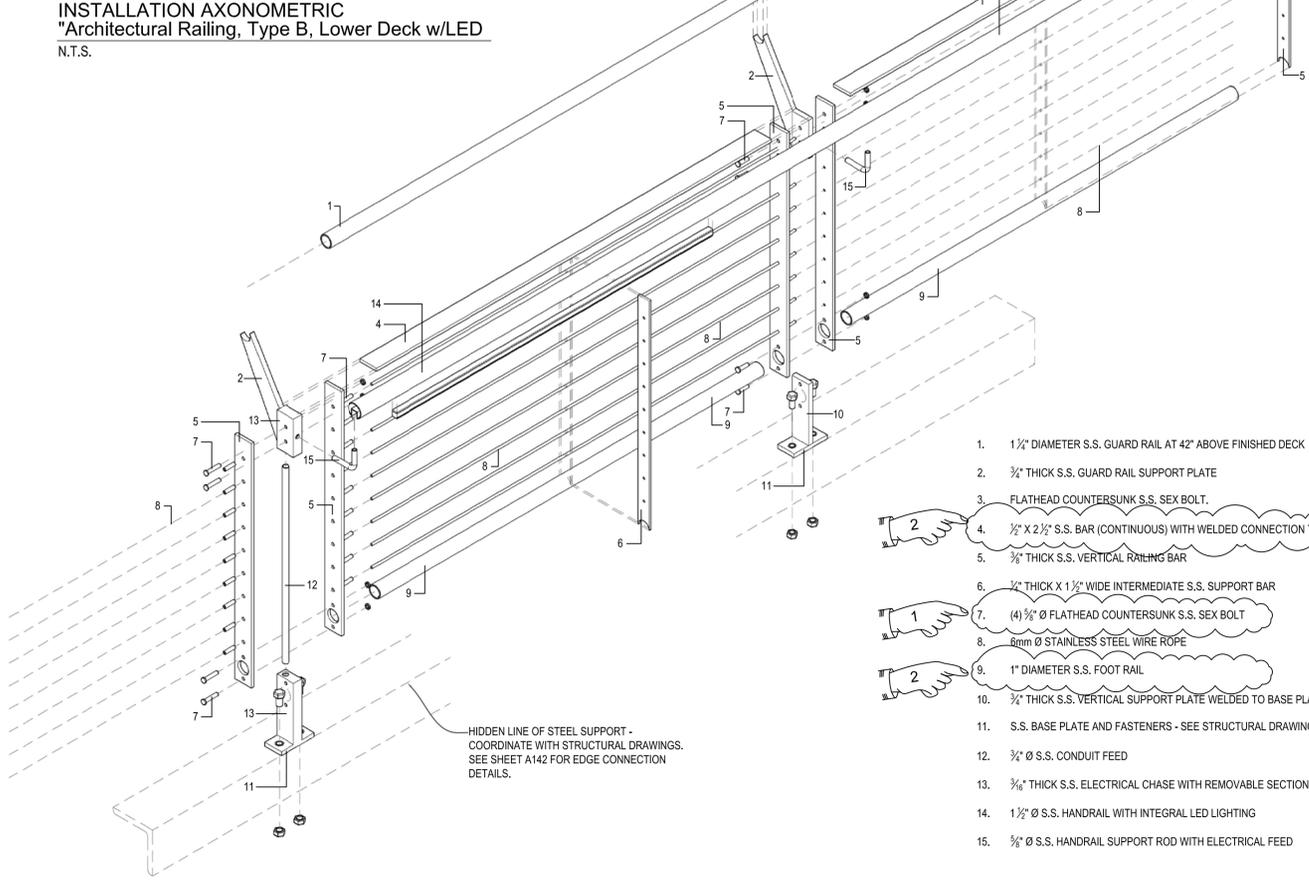
ADDENDUM NO. 9

REF DWG #	REFERENCE DRAWING NAME
S510	LOWER DECK DETAILS - 1

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NO.	DATE	BY	NO.	DATE	BY																																
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2	6/21/2016	CL																																			
3	7/8/2016	CL																																			
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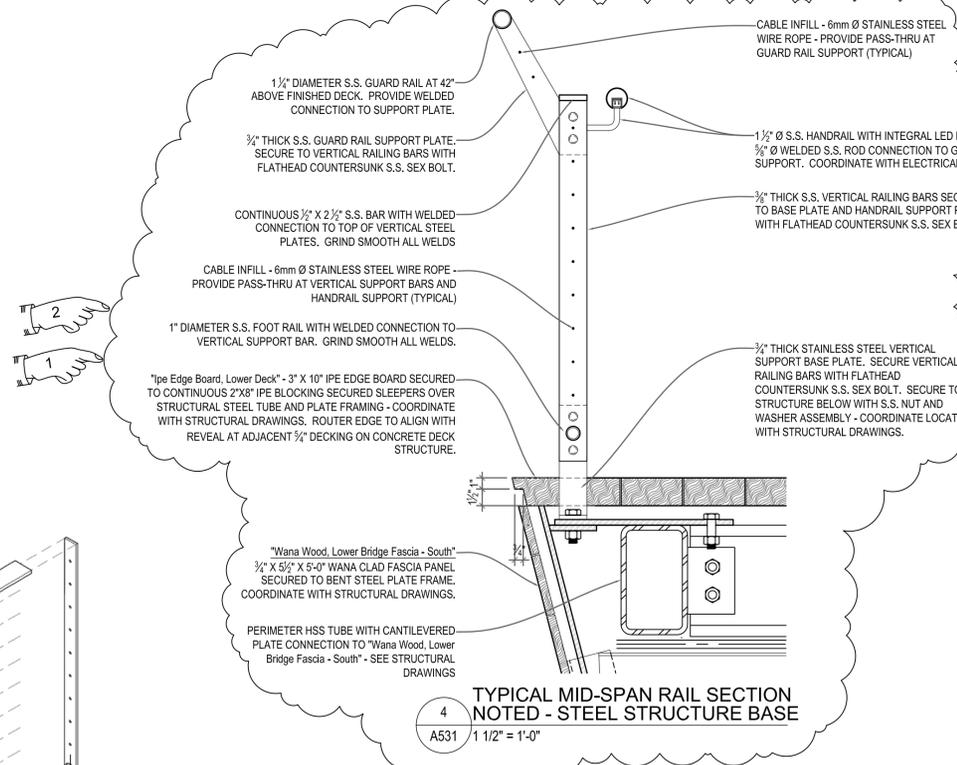


INSTALLATION AXONOMETRIC
"Architectural Railing, Type B, Lower Deck w/LED
N.T.S.

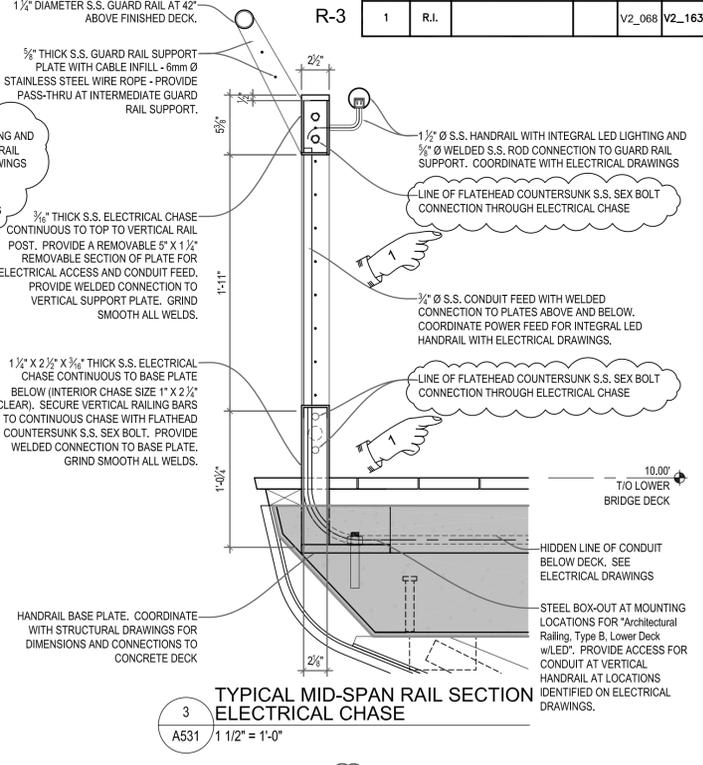


EXPLODED AXONOMETRIC
"Architectural Railing, Type B, Lower Deck w/LED
N.T.S.

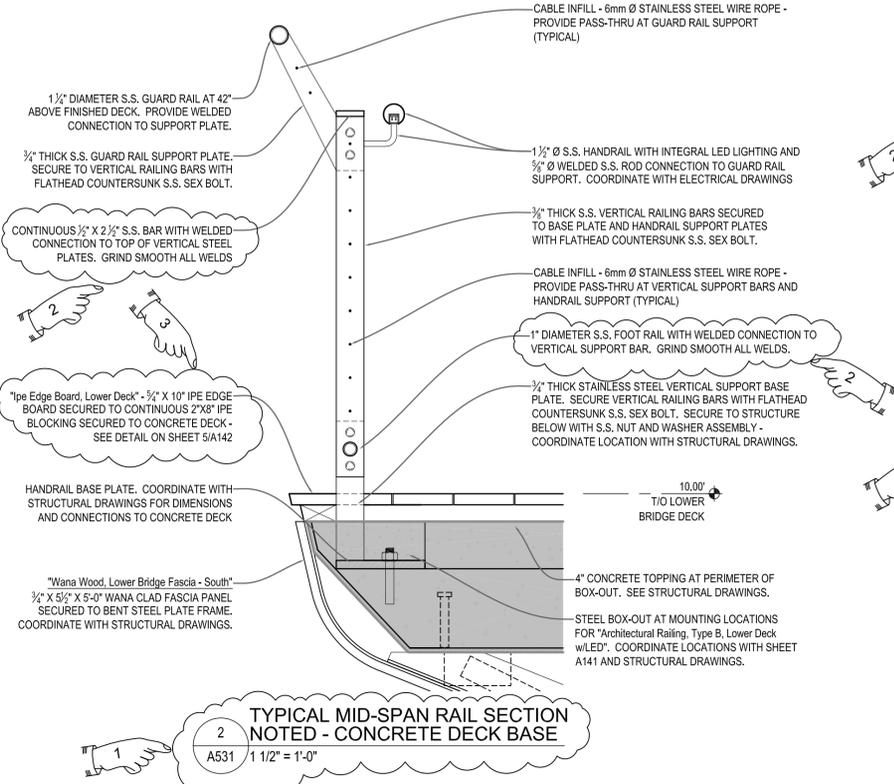
1. 1 1/2" DIAMETER S.S. GUARD RAIL AT 42" ABOVE FINISHED DECK
2. 3/4" THICK S.S. GUARD RAIL SUPPORT PLATE
3. FLATHEAD COUNTERSUNK S.S. SEX BOLT
4. 1/2" X 2 1/2" S.S. BAR (CONTINUOUS) WITH WELDED CONNECTION TO VERTICAL SUPPORT
5. 3/8" THICK S.S. VERTICAL RAILING BAR
6. 1/2" THICK X 1 1/2" WIDE INTERMEDIATE S.S. SUPPORT BAR
7. (4) 3/8" Ø FLATHEAD COUNTERSUNK S.S. SEX BOLT
8. 6mm Ø STAINLESS STEEL WIRE ROPE
9. 1" DIAMETER S.S. FOOT RAIL
10. 3/4" THICK S.S. VERTICAL SUPPORT PLATE WELDED TO BASE PLATE
11. S.S. BASE PLATE AND FASTENERS - SEE STRUCTURAL DRAWINGS
12. 3/4" Ø S.S. CONDUIT FEED
13. 3/8" THICK S.S. ELECTRICAL CHASE WITH REMOVABLE SECTION FOR ACCESS
14. 1 1/2" Ø S.S. HANDRAIL WITH INTEGRAL LED LIGHTING
15. 3/4" Ø S.S. HANDRAIL SUPPORT ROD WITH ELECTRICAL FEED



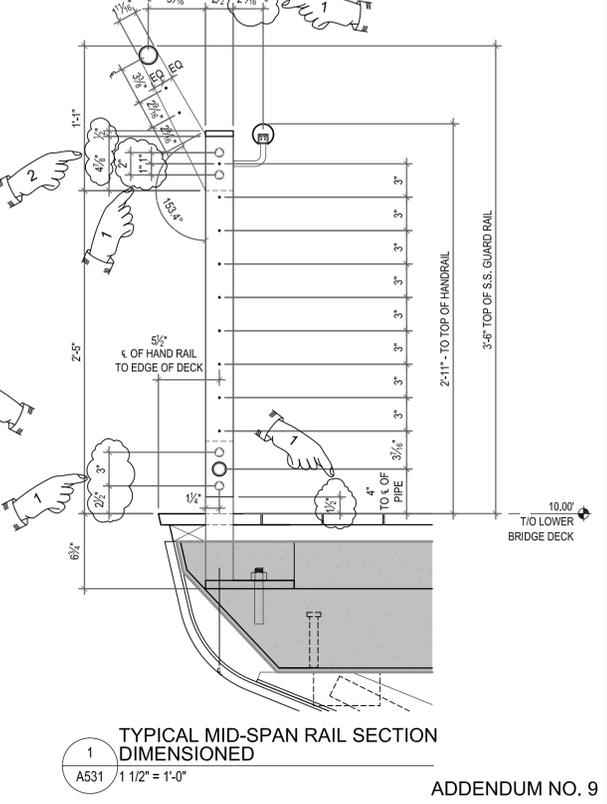
4
A531 1 1/2" = 1'-0"



3
A531 1 1/2" = 1'-0"



2
A531 1 1/2" = 1'-0"



1
A531 1 1/2" = 1'-0"

ADDENDUM NO. 9

REF DWG #	REFERENCE DRAWING NAME
S510	LOWER DECK DETAILS - 1



RHODE ISLAND
DEPARTMENT OF TRANSPORTATION



DESIGNED BY:
CHECKED:
DATE:
SHEET: V2_068
OF: V2_163

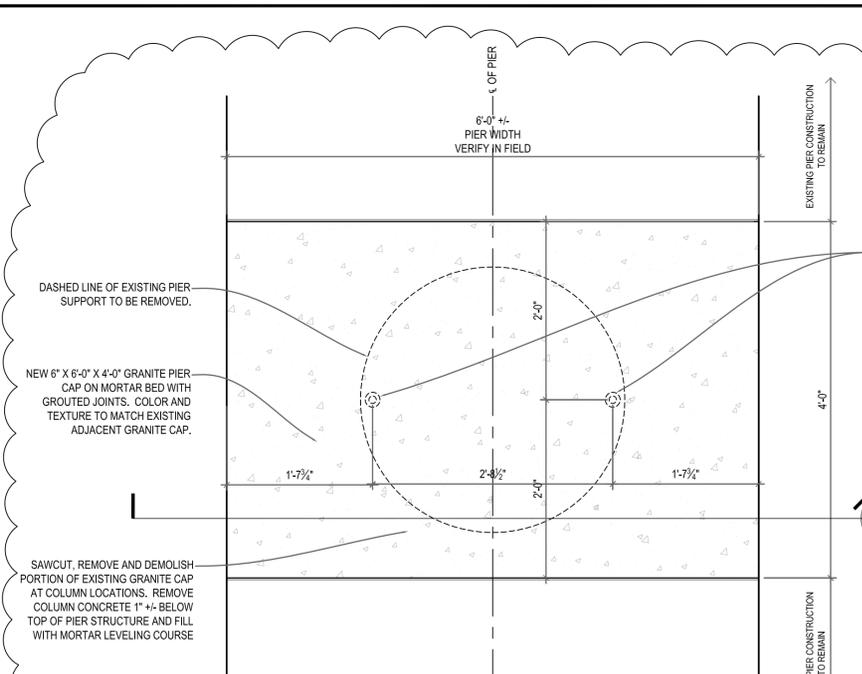
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3	7/8/2016	CL			

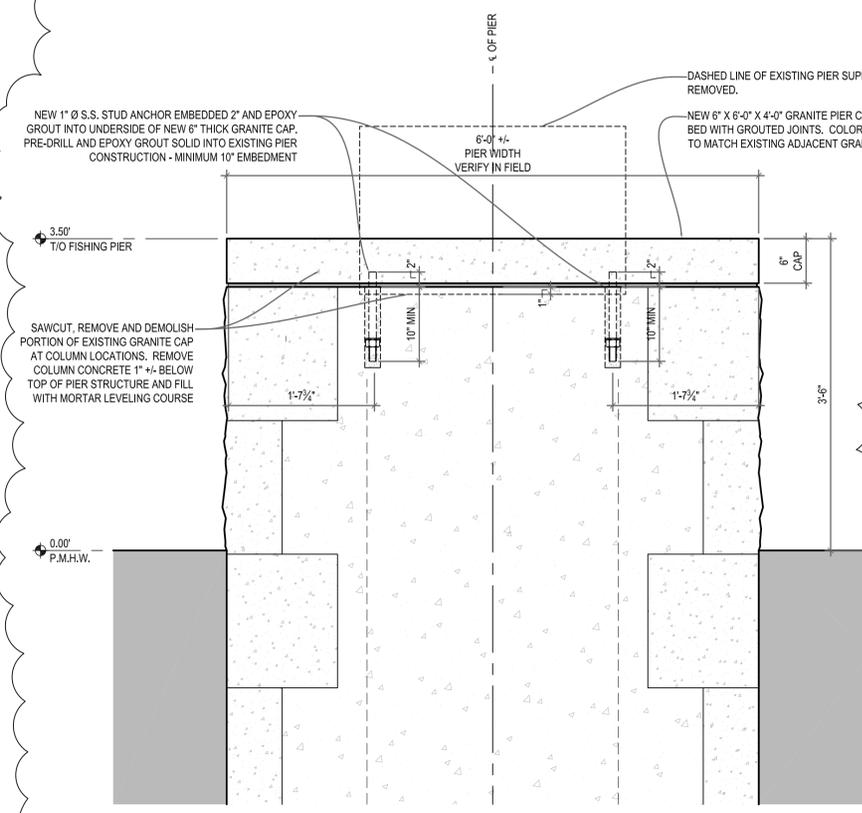
IMPROVEMENTS TO
INTERSTATE ROUTE 195
CONTRACT 16 VOLUME 2
PROVIDENCE RHODE ISLAND

LOWER BRIDGE RAILING
SECTIONS AND DETAILS

A531



5
 A532
TYPICAL PIER PLAN
NEW GRANITE CAP AT EX. COLUMN REMOVAL
 1" = 1'-0"

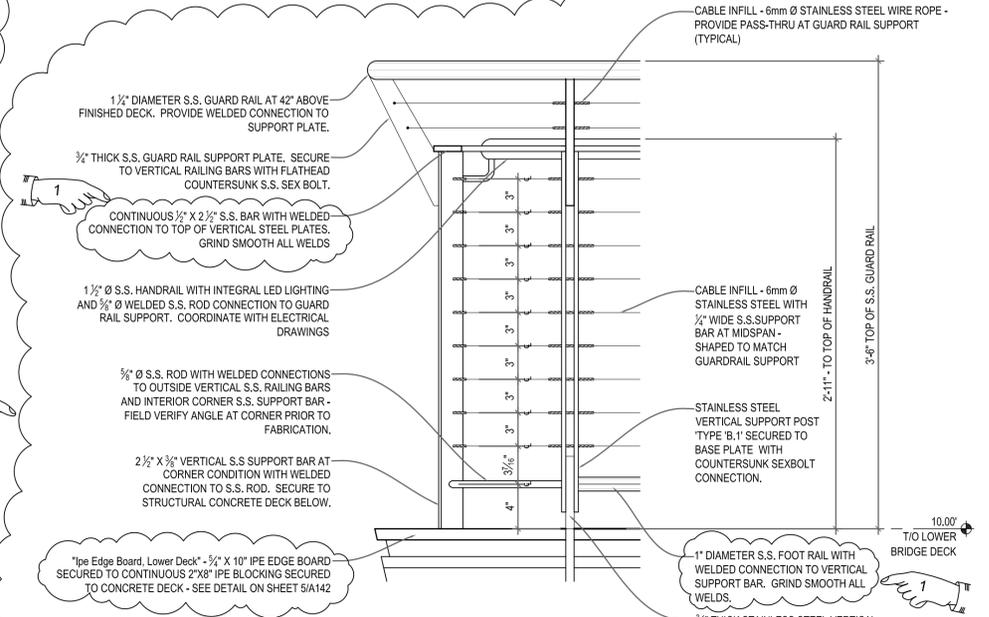


4
 A532
TYPICAL PIER SECTION
NEW GRANITE CAP AT EX. COLUMN REMOVAL
 1" = 1'-0"

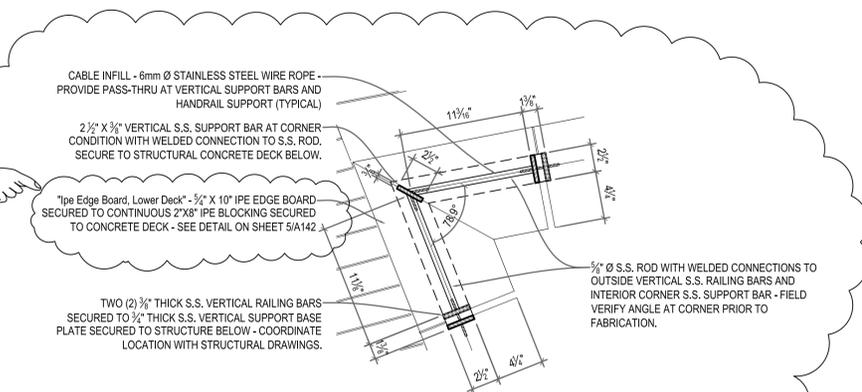
NOTES:
 ALL ITEMS OR WORK AND MATERIALS ASSOCIATED WITH NEW GRANITE CAP AT EXISTING COLUMN REMOVAL TO BE INCLUDED UNDER ITEM CODE 834.9920.

HIDDEN LINE OF NEW 1" Ø S.S. STUD ANCHOR EMBEDDED 2" AND EPOXY GROUT SOLID INTO UNDERSIDE OF NEW 6" THICK GRANITE CAP. PRE-DRILL AND EPOXY GROUT INTO EXISTING PIER CONSTRUCTION - MINIMUM 10" EMBEDMENT

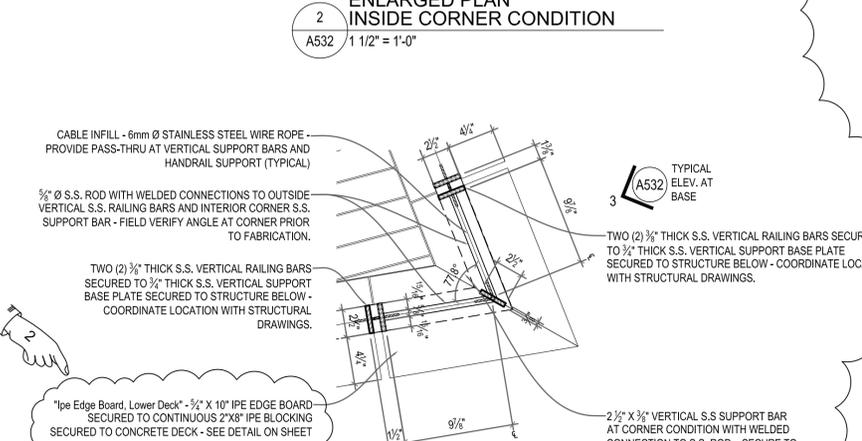
4
 A532



3
 A532
ENLARGED ELEVATION
AT CORNER RAIL CONDITION
 1 1/2" = 1'-0"



2
 A532
ENLARGED PLAN
INSIDE CORNER CONDITION
 1 1/2" = 1'-0"



1
 A532
ENLARGED PLAN
OUTSIDE CORNER CONDITION
 1 1/2" = 1'-0"

ADDENDUM NO. 9

REF DWG #	REFERENCE DRAWING NAME
S510	LOWER DECK DETAILS - 1



RHODE ISLAND
 DEPARTMENT OF TRANSPORTATION

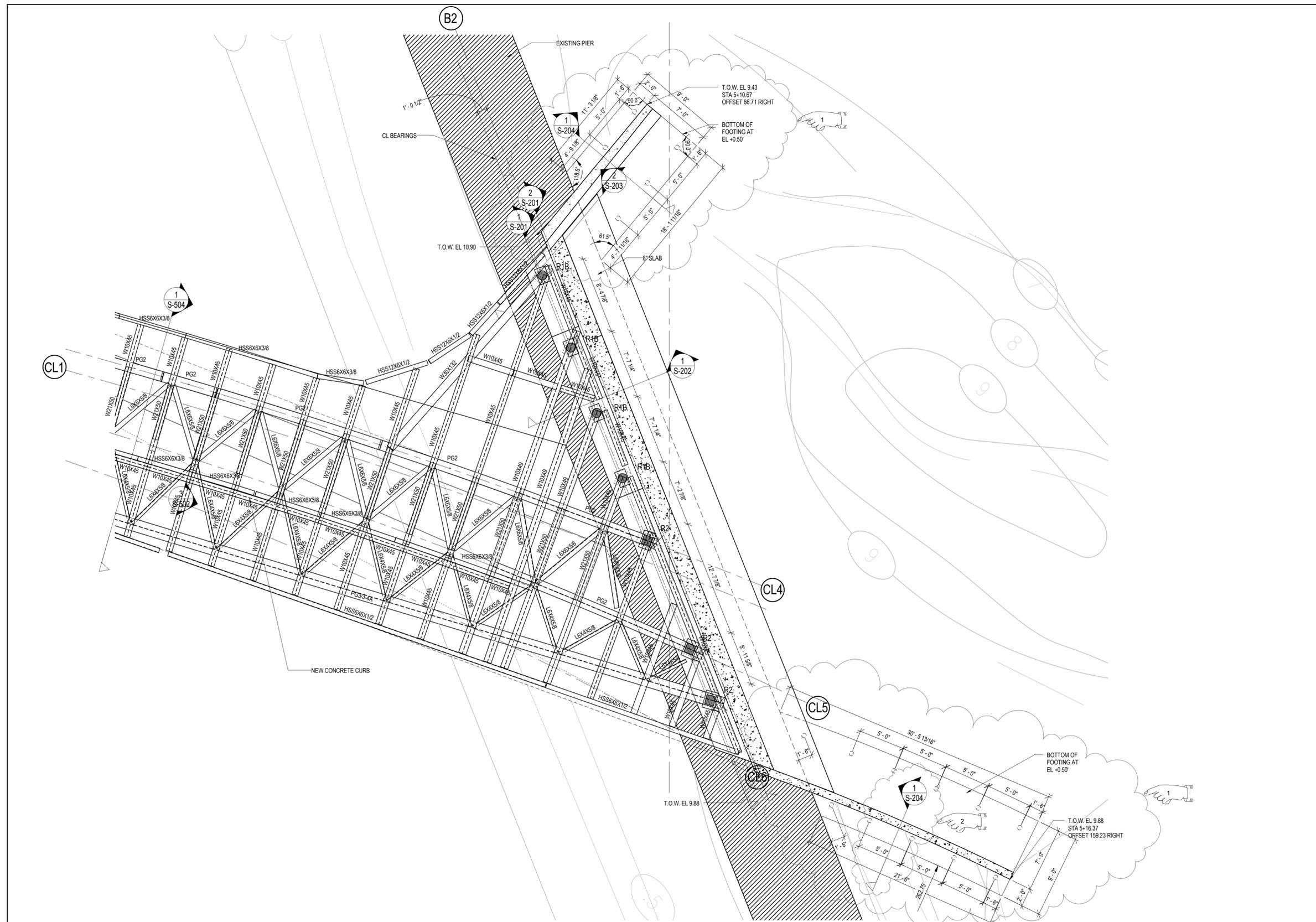


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 CHECKED:
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 SHEET: V2_068A
 OF: V2_163

SCALE:

REVISIONS			REVISIONS		
NO.	DATE	BY	NO.	DATE	BY
1	6/21/2016	CL			
2	7/8/2016	CL			

IMPROVEMENTS TO
 INTERSTATE ROUTE 195
 CONTRACT 16 VOLUME 2
 PROVIDENCE RHODE ISLAND
 LOWER BRIDGE RAILING
 SECTIONS AND DETAILS
 A532



NOTE:
BOF INDICATES BOTTOM OF FOOTING.
TOW INDICATES TOP OF WALL.

ADDENDUM NO. 9

REF DWG #	REFERENCE DRAWING NAME
A132	UPPER AND PARTIAL LOWER DECK SLEEPER LAYOUT
A430	EAST ABUTMENT WALLS NORTH PLAN, ELEVATIONS, AND SECTIONS

2 PART PLAN B2 ABUTMENT

SCALE 3/16" = 1'-0"



100 BROADWAY,
23rd FLOOR NEW YORK,
NY 10005
Tel: 212 334 2025
Fax: 212 334 5528
web: www.burohappold.com



BETA Group, Inc.
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Lincoln, RI - Norwood, MA - Hartford, CT



RHODE ISLAND
DEPARTMENT OF TRANSPORTATION



DESIGNED BY: SB
CHECKED: AN
DATE: 04/21/14
SHEET: V2_093
OF: V2_163

SCALE: As indicated

REVISIONS			REVISIONS		
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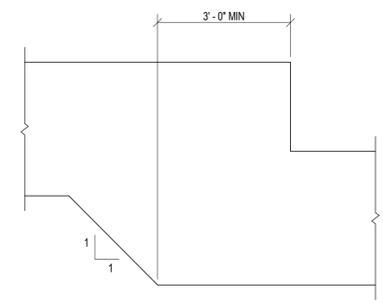
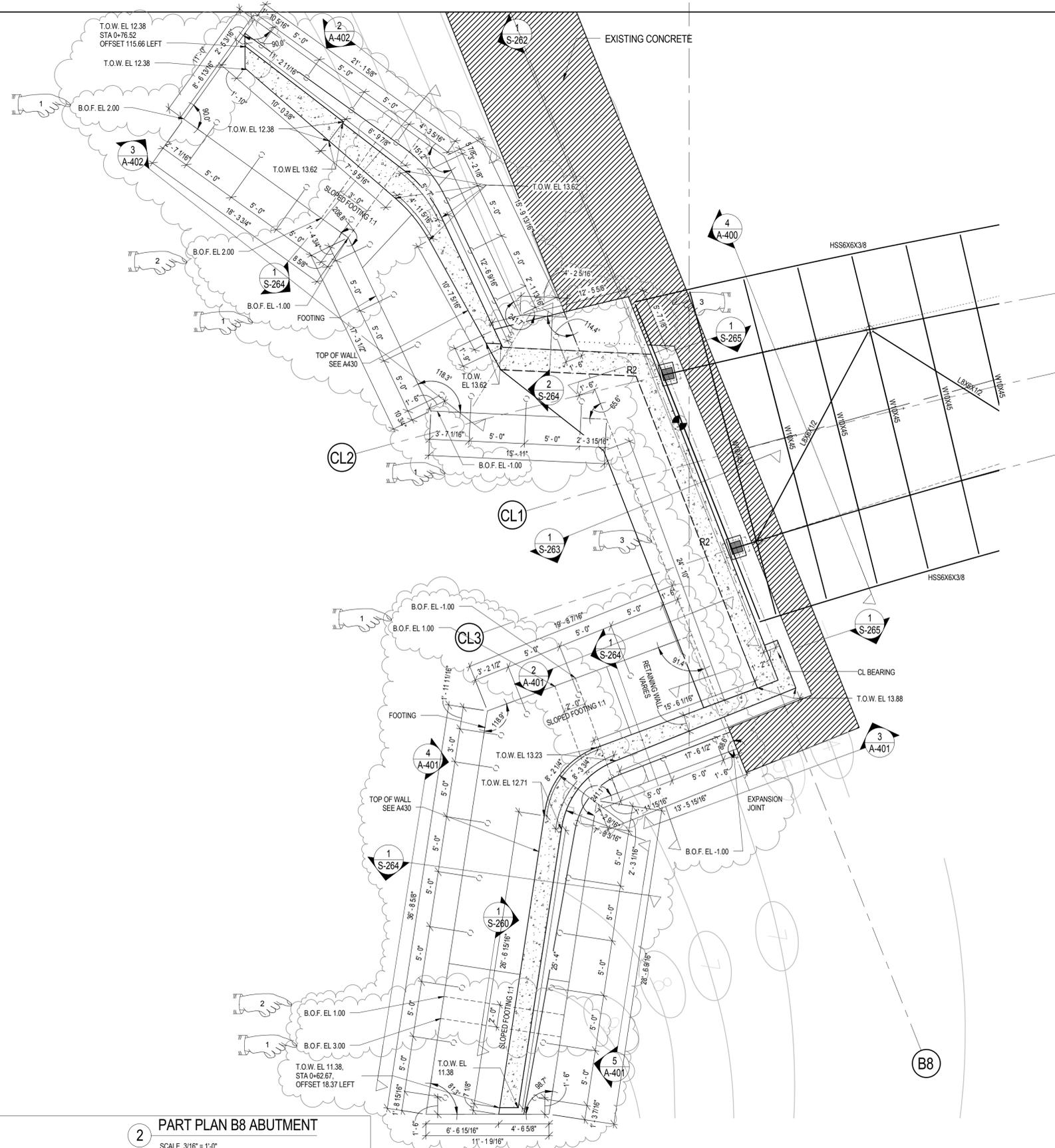
IMPROVEMENTS TO
INTERSTATE ROUTE 195
CONTRACT 16 VOLUME 2

PROVIDENCE RHODE ISLAND

PART PLAN - B2 ABUTMENTS

S-200

FED. ROAD DIST. NO.	STATE	FEDERAL AID PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
R-3	1	R.I.		V2_113	V2_163



1 SCHEMATIC STEP FOOTING SECTION
SCALE 1/2" = 1'-0"

2 PART PLAN B8 ABUTMENT
SCALE 3/16" = 1'-0"

NOTE:
BOF INDICATES BOTTOM OF FOOTING;
TOW INDICATES TOP OF WALL

ADDENDUM NO. 9

REF DWG #	REFERENCE DRAWING NAME
A-440	WEST ABUTMENT WALLS PLAN & ELEVATIONS



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RHODE ISLAND
DEPARTMENT OF TRANSPORTATION



DESIGNED BY: Designer
CHECKED: Checker
DATE: 10/10/14
SHEET: V2_113
OF: V2_163

SCALE: As indicated

REVISIONS			REVISIONS		
NO.	DATE	BY	NO.	DATE	BY
1	6/14/2016	DF			
2	6/22/2016	DF			
3	7/08/2016	DF			

IMPROVEMENTS TO
INTERSTATE ROUTE 195
CONTRACT 16 VOLUME 2
PROVIDENCE RHODE ISLAND
PART PLAN - B8 ABUTMENTS
S-260

R-3

GENERAL NOTES

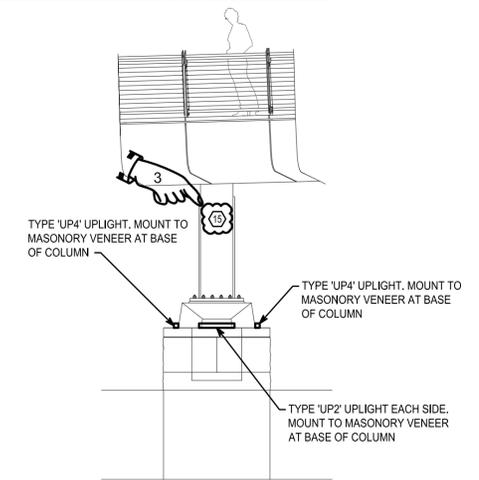
1. TYPE 'PLNS' AND 'PLVN' PIER LIGHTS SHALL BE CAREFULLY AIMED AND ADJUSTED. FINAL CONFIGURATION TO BE APPROVED BY ARCHITECTS/ENGINEERS.
2. REFER TO DRAWING A401 FOR PIER AND COLUMN DETAILS.
3. EPOXY FIBERGLASS CONDUIT SHALL BE PROVIDED FOR ALL EXPOSED APPLICATIONS. FLEXIBLE LIQUID TIGHT CONDUIT MAY BE USED FOR CONCEALED AND PROTECTED FEEDS TO FIXTURES.
4. SCHEDULE 80 PVC SHALL BE FURNISHED FOR DUCT BANKS AND WHERE CONDUIT IS EMBEDDED OR CONCRETE ENCASED. EPOXY FIBERGLASS CONDUIT SHALL BE USED FOR OTHER APPLICATIONS, UNLESS OTHERWISE NOTED.
5. ALL UNISTRUT AND CONDUIT HANGERS SHALL BE FIBERGLASS.

NUMBERED NOTES

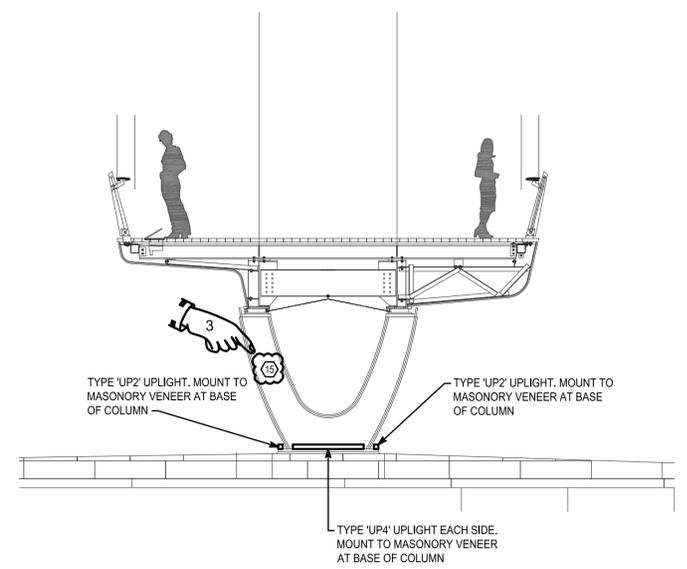
- 1 UPLIGHT JUNCTION BOX TO BE MOUNTED ADJACENT TO UPLIGHTS. EXTEND 120V POWER AND DMX TO CONTROL BOX. EXTEND POWER/DATA FIXTURE CABLE TO FIXTURES. EXTEND/ROUTE POWER/CONTROL CONDUITS INSIDE STEEL COLUMN.
- 2 MOUNT LINEAR UPLIGHT TO FACE OF COLUMN/CAP. REFER TO DETAIL 2 ON THIS DRAWING FOR MORE INFORMATION.
- 3 MOUNT LINEAR UPLIGHT TO FACE OF COLUMN/CAP. REFER TO DETAIL 3 ON THIS DRAWING FOR MORE INFORMATION.
- 4 MOUNT PIER LIGHTS AND ASSOCIATED DRIVER TO NEW PIER CAP. PRIOR TO MOUNTING FIXTURES, EC SHALL CONDUCT AN AIMING SESSION WITH BOTH THE ARCHITECT AND ENGINEER PRESENT AND SHALL RECEIVE APPROVAL FROM ARCHITECT AND ENGINEER PRIOR TO MOUNTING FIXTURES OR INSTALLING ASSOCIATED RACEWAY/CABLING. EXTEND POWER/CONTROL CABLING TO DRIVER AND PROVIDE FIXTURE POWER/CONTROL WHIPS TO FIXTURE AS REQUIRED.
- 5 (1) 1" CONDUITS EMBEDDED IN PIER. EXTEND TO JUNCTION BOXES IN COLUMN.
- 6 EXISTING NAVIGATION LIGHT TO REMAIN UNLESS OTHERWISE NOTED.
- 7 (1) 1-1/2" CONDUIT FOR POWER FOR PIER LIGHTS AND UPLIGHTS.
- 8 PROVIDE JUNCTION BOXES FOR POWER FOR PIER LIGHTS AND UPLIGHTS.
- 9 CHANNEL MARGIN NAVIGATION LIGHT. MOUNT TO UNDERSIDE OF BRIDGE WITH STEM; PROVIDE ALL MOUNTING HARDWARE REQUIRED.
- 10 CENTER CHANNEL NAVIGATION LIGHT. MOUNT TO UNDERSIDE OF BRIDGE WITH STEM; PROVIDE ALL MOUNTING HARDWARE REQUIRED.
- 11 JUNCTION BOX FOR NAVIGATION LIGHTING CIRCUIT.
- 12 2 #10 & 1 #10 EGC IN (1) 1" CONDUIT.

14 MOUNT PIER LIGHTS AND ASSOCIATED DRIVER TO EXISTING PIER. PRIOR TO MOUNTING FIXTURES, EC SHALL CONDUCT AN AIMING SESSION WITH BOTH THE ARCHITECT AND ENGINEER PRESENT AND SHALL RECEIVE APPROVAL FROM ARCHITECT AND ENGINEER PRIOR TO MOUNTING FIXTURES OR INSTALLING ASSOCIATED RACEWAY/CABLING. EXTEND POWER/CONTROL CABLING TO DRIVER AND PROVIDE POWER/CONTROL WHIPS TO FIXTURES AS REQUIRED.

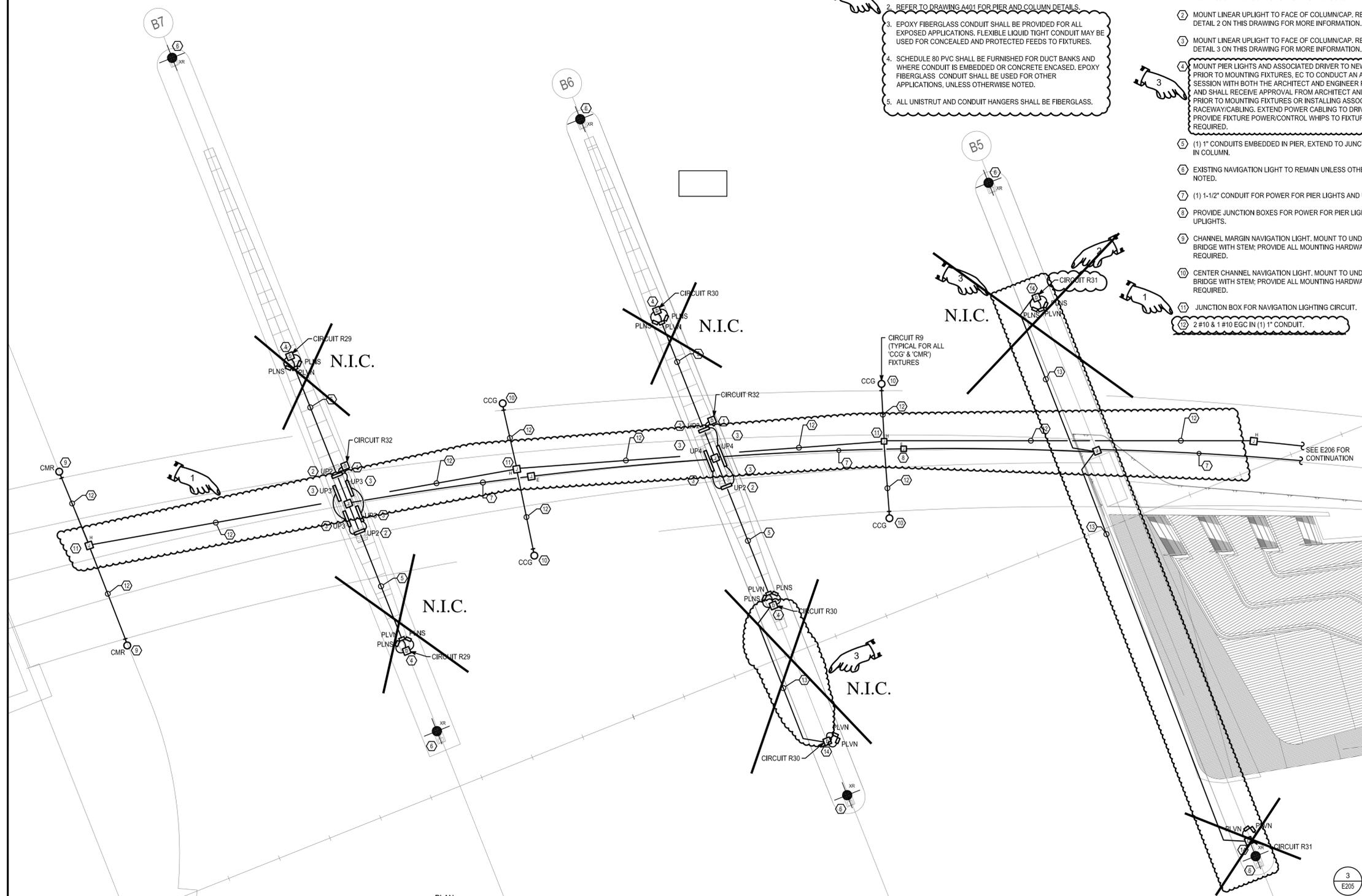
15 EXTEND CONDUITS FOR PIER LIGHTS AND COLUMN UPLIGHTS INSIDE COLUMN - REFER TO STRUCTURAL DRAWINGS FOR DETAILS.



2 **PIER 'B6' COLUMN ELEVATION - LIGHTING (SIDE)**
E205 1" = 5'-0"



3 **PIER 'B6' COLUMN ELEVATION - LIGHTING (FRONT)**
E205 1" = 5'-0"



1 **ENLARGED LOWER BRIDGE PARTIAL LIGHTING PLAN- WEST**
E205 1" = 10'-0"

ADDENDUM NO. 9

REF DWG #	REFERENCE DRAWING NAME



RHODE ISLAND
DEPARTMENT OF TRANSPORTATION



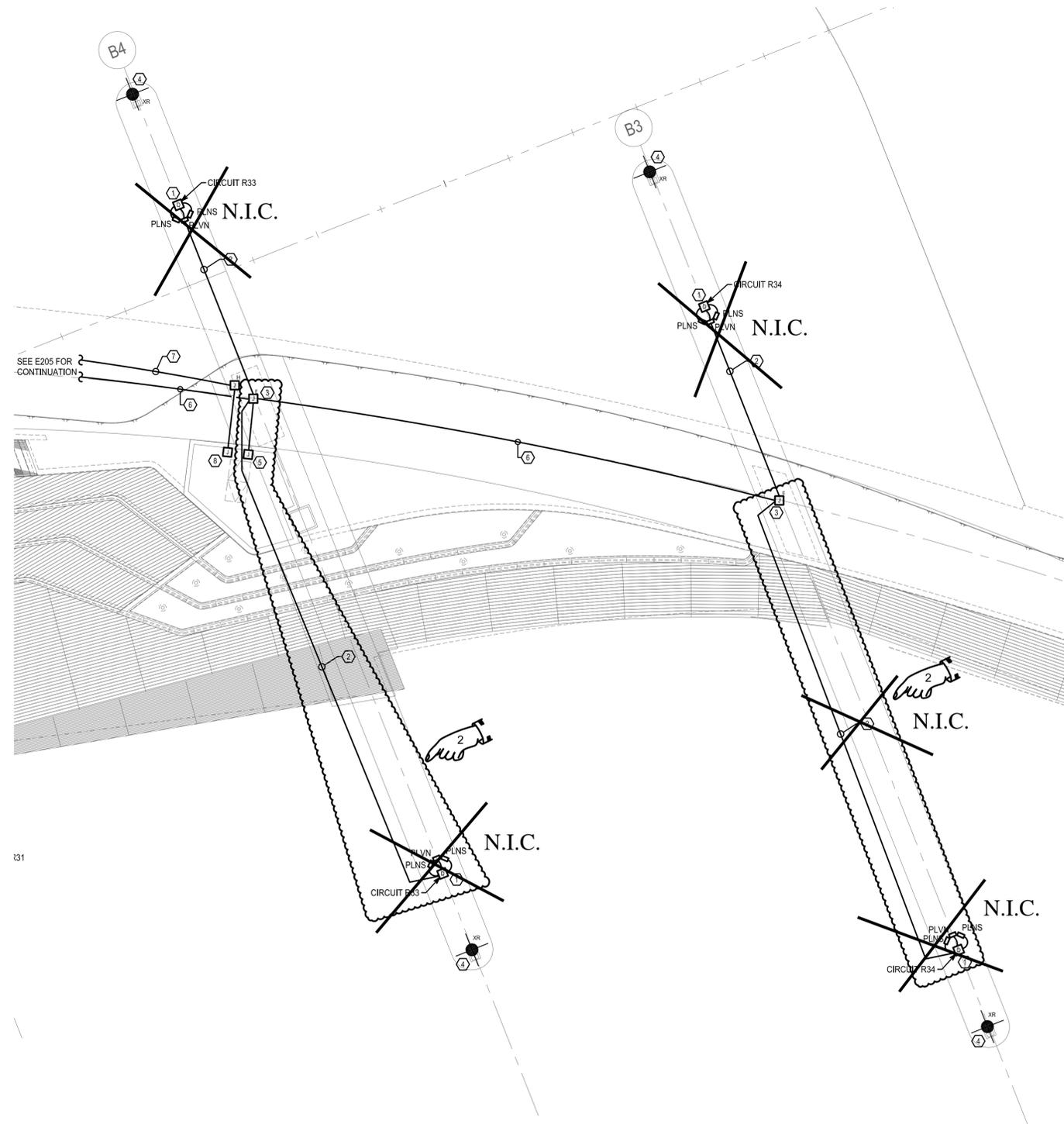
DESIGNED BY:
CHECKED:
DATE:
SHEET: V2_154
OF: V2_163

SCALE:
1" = 10'-0"

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NO.	DATE	BY	NO.	DATE	BY
1	06/14/16	GMF			
2	06/21/16	GMF			
3	07/08/16	GMF			

IMPROVEMENTS TO
INTERSTATE ROUTE 195
CONTRACT 16 VOLUME 2
PROVIDENCE RHODE ISLAND

ENLARGED LOWER BRIDGE LIGHTING PLAN E205



NUMBERED NOTES

- 1 MOUNT PIER LIGHTS AND ASSOCIATED DRIVER TO EXISTING PIER. PRIOR TO MOUNTING FIXTURES, EC SHALL CONDUCT AN AIMING SESSION WITH BOTH THE ARCHITECT AND ENGINEER PRESENT AND SHALL RECEIVE APPROVAL FROM ARCHITECT AND ENGINEER PRIOR TO MOUNTING FIXTURES OR INSTALLING ASSOCIATED RACEWAY/CABLING. EXTEND POWER/CONTROL CABLING TO DRIVER AND PROVIDE POWER/CONTROL WHIPS TO FIXTURES AS REQUIRED.
- 2 EXTEND 1" CONDUIT FROM JUNCTION BOX AT COLUMN TO FIXTURES VIA THE SIDE OF THE EXISTING PIER - PAINT CONDUIT TO MATCH PIER.
- 3 PROVIDE JUNCTION BOXES FOR POWER FOR PIER LIGHTS.
- 4 EXISTING NAVIGATION LIGHT TO REMAIN UNLESS OTHERWISE NOTED.
- 5 EXTEND 1-1/2" CONDUIT (POWER) AND ASSOCIATED CIRCUITS FOR PIER LIGHTS ('PLNS' & 'PLVN') AND UPLIGHTS ('UP2', 'UP3' & 'UP4') TO ELECTRICAL VAULT.
- 6 (1) 1-1/2" CONDUIT FOR POWER FOR PIER LIGHTS AND UPLIGHTS.
- 7 2 #10 & 1 #10 EGC IN (1) 1" CONDUIT.
- 8 (1) 3/4" CONDUIT AND WIRING FOR POWER TO TYPE 'CMR' AND 'CCG' FIXTURES SHALL BE EXTENDED FROM THE LIGHTING CONTROL PANEL WITHIN THE ELECTRICAL VAULT. CONDUIT SHALL THEN EXTEND THROUGH THE BRIDGE STRUCTURE ACROSS THE LENGTH OF THE BRIDGE AS DEPICTED.

GENERAL NOTES

1. TYPE 'PLNS' AND 'PLVN' PIER LIGHTS SHALL BE CAREFULLY AIMED AND ADJUSTED. FINAL CONFIGURATION TO BE APPROVED BY ARCHITECTS/ENGINEERS.
2. REFER TO DRAWING A401 FOR PIER AND COLUMN DETAILS.
3. EPOXY FIBERGLASS CONDUIT SHALL BE PROVIDED FOR ALL EXPOSED APPLICATIONS. FLEXIBLE LIQUID TIGHT CONDUIT MAY BE USED FOR CONCEALED AND PROTECTED FEEDS TO FIXTURES.
4. SCHEDULE 80 PVC SHALL BE FURNISHED FOR DUCT BANKS AND WHERE CONDUIT IS EMBEDDED OR CONCRETE ENCASED. EPOXY FIBERGLASS CONDUIT SHALL BE USED FOR OTHER APPLICATIONS, UNLESS OTHERWISE NOTED.
5. ALL UNISTRUT AND CONDUIT HANGERS SHALL BE FIBERGLASS.

PLAN NORTH

ENLARGED LOWER BRIDGE PARTIAL LIGHTING PLAN- EAST
 1" = 10'-0"

ADDENDUM NO. 9

REF DWG #	REFERENCE DRAWING NAME



RHODE ISLAND
 DEPARTMENT OF TRANSPORTATION



DESIGNED BY:
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 DATE:
 SHEET: V2_155
 OF: V2_163

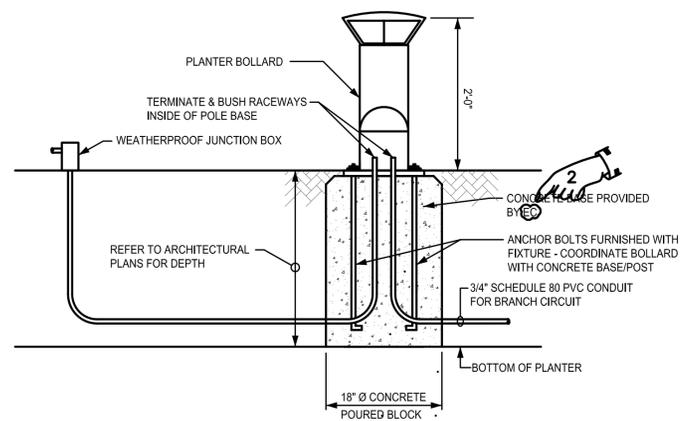
SCALE:
 1" = 10'-0"

REVISIONS			REVISIONS		
NO.	DATE	BY	NO.	DATE	BY
1	06/14/16	GMF			
2	07/08/16	GMF			

PROVIDENCE
IMPROVEMENTS TO INTERSTATE ROUTE 195
 CONTRACT 16 VOLUME 2
 RHODE ISLAND

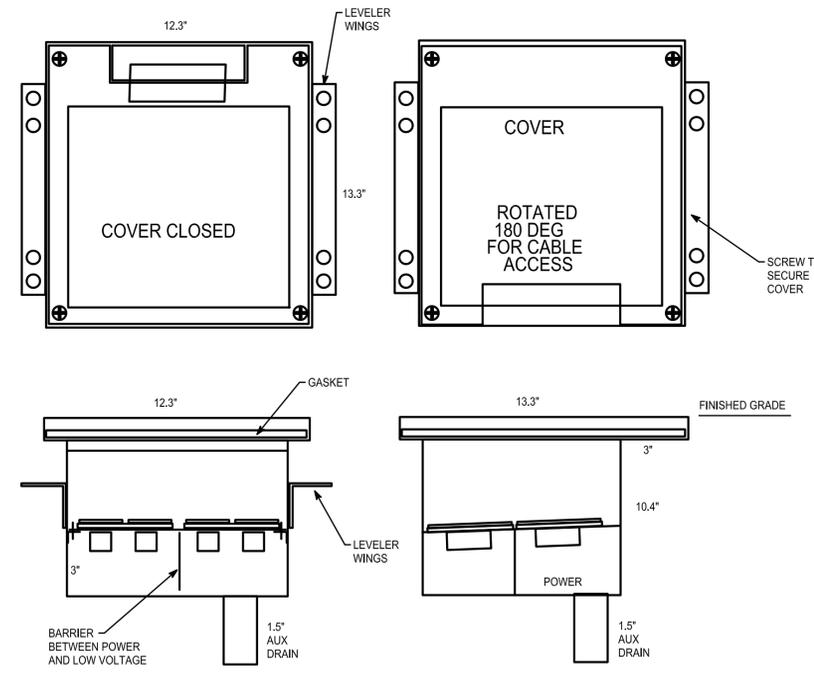
ENLARGED LOWER BRIDGE LIGHTING PLAN

E206



NOTES:
 1. COORDINATE WITH ARCHITECTURAL PLANS. REFER TO A520 AND A521 FOR MORE INFORMATION.

1
 E503
PLANTER BOLLARD DETAIL
 NO SCALE

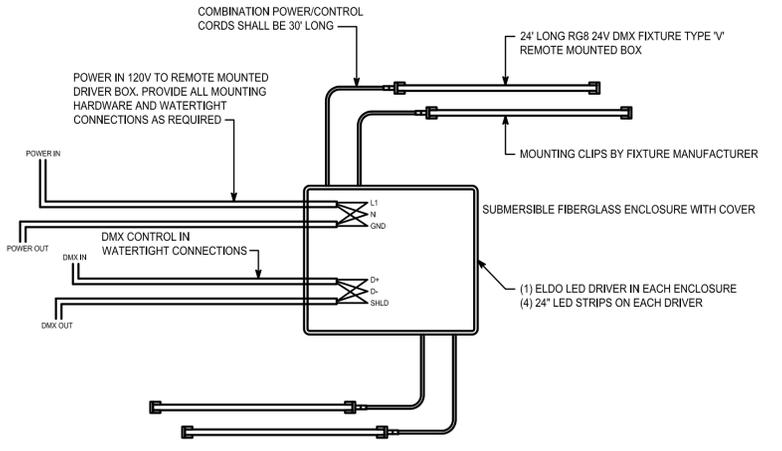
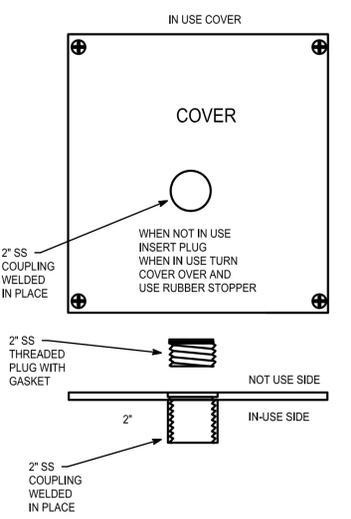


NOTES:
 1. ALL CONDUIT ENTRIES ARE MADE IN THE FIELD BY THE EC TO ACCOMMODATE FIELD REQUIREMENTS. CONDUIT ENTRY IS BELOW THE DEVICE PLATE ONLY. (SIDE ONLY)
 2. REFER TO ARCHITECTURAL DRAWINGS A110 AND A113 FOR FLOOR BOX LOCATIONS. COORDINATE WITH ARCHITECTURAL SECTION - REFER TO DETAIL 1 ON A410.

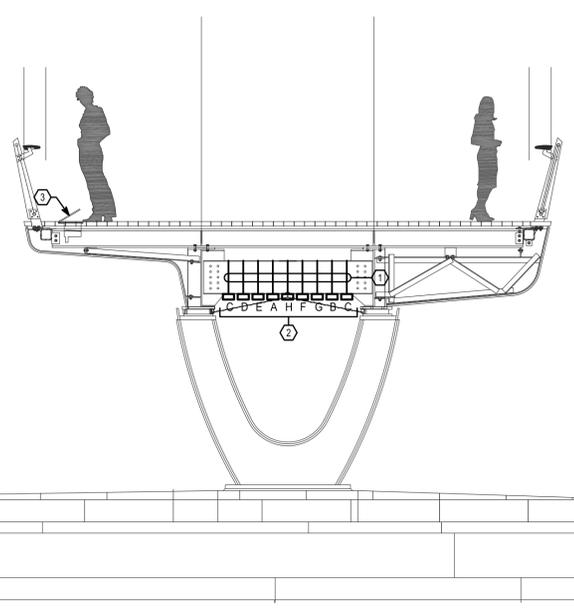


2
 E503
WEATHERPROOF FLOOR BOX DETAIL
 NO SCALE

COVER: 1/4" 304 BRUSHED STAINLESS
 ENCLOSURE: #16 STAINLESS STEEL
 INSERT: 304 STAINLESS STEEL WITH GFCI DUPLEX RECEPTACLE AND DOUBLE GANG BOX WITH WEATHERPROOF COVERPLATE
 GASKET: 1/8" NEOPRENE CLOSED CELL
 SIZE: 12X12X10"DEEP ±



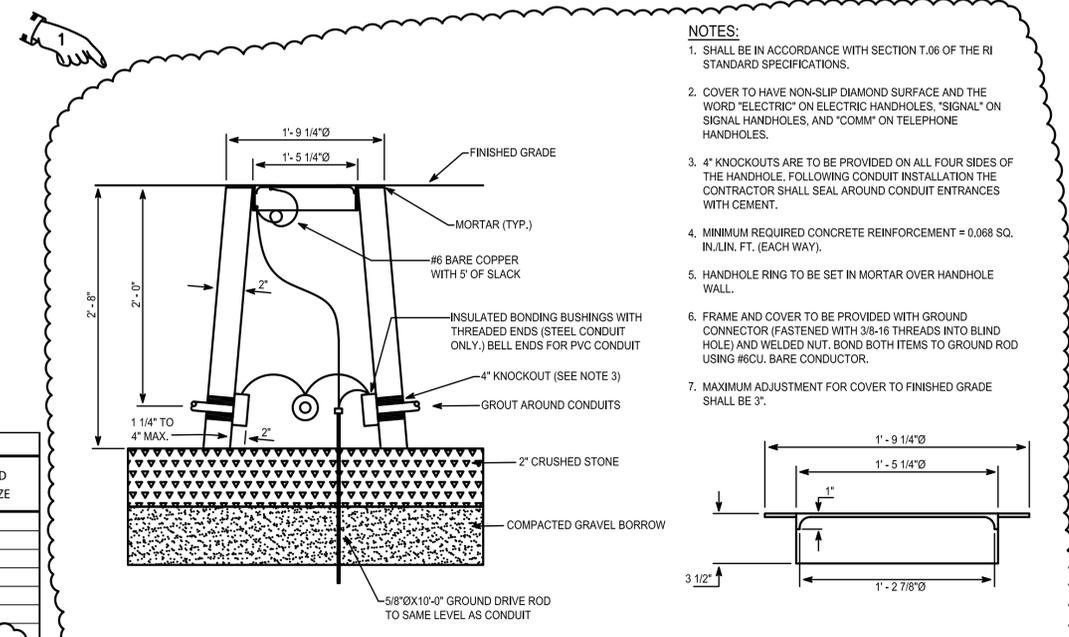
3
 E503
TYPE 'V' FIXTURE REMOTE DRIVER DETAIL
 NO SCALE



4
 E503
BRIDGE SECTION - ELECTRICAL PATHWAYS
 1/4" 1'-0"

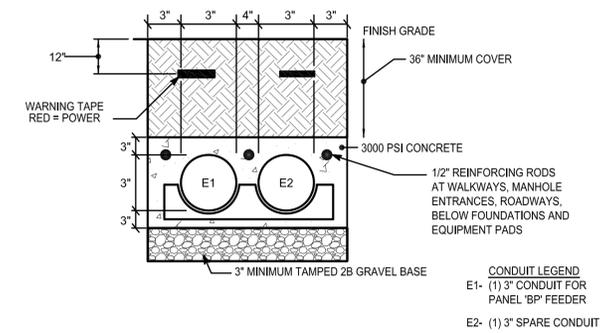
- NUMBERED NOTES**
- 1 PROVIDE FIBERGLASS/STAINLESS STEEL PENDANT MOUNTING HARDWARE FOR JUNCTION BOXES, DRIVERS AND CONDUITS AS REQUIRED. ELECTRICAL BOXES, DRIVERS, CONDUITS ETC TO BE MOUNTED BELOW CROSS BEAM. COORDINATE FINAL ROUTING WITH GENERAL CONTRACTOR.
 - 2 REFER TO JUNCTION BOX SCHEDULE THIS DRAWING, E200 SERIES AND DRAWING E300 FOR MORE DETAILS ON EACH JUNCTION BOX/DEVICE.
 - 3 RECESSED ELECTRICAL BOX. REFER TO DRAWINGS E300 AND E503 FOR MORE INFORMATION.

UPPER BRIDGE JUNCTION BOX SCHEDULE		
TYPE	DESCRIPTION	ASSOCIATED CONDUIT SIZE
A	POWER - TYPE 'H' FIXTURES	1-1/2"
B	POWER - TYPE 'UB' FIXTURES	1-1/2"
C	POWER - TYPE 'V' FIXTURES (DRIVER ENCL.)	(2) 1-1/2"
D	BROWN UNIVERSITY SPARE	4"
E	POWER - PIER LIGHTS AND UPLIGHTS	1"
F	POWER - ENCLOSURE	1-1/2"
G	FUTURE SOUND - ENCLOSURE	1-1/2"
H	POWER - NAVIGATION LIGHTS	1"



NOTES:
 1. SHALL BE IN ACCORDANCE WITH SECTION T.06 OF THE RI STANDARD SPECIFICATIONS.
 2. COVER TO HAVE NON-SLIP DIAMOND SURFACE AND THE WORD "ELECTRIC" ON ELECTRIC HANDHOLES, "SIGNAL" ON SIGNAL HANDHOLES, AND "COMM" ON TELEPHONE HANDHOLES.
 3. 4" KNOCKOUTS ARE TO BE PROVIDED ON ALL FOUR SIDES OF THE HANDHOLE. FOLLOWING CONDUIT INSTALLATION THE CONTRACTOR SHALL SEAL AROUND CONDUIT ENTRANCES WITH CEMENT.
 4. MINIMUM REQUIRED CONCRETE REINFORCEMENT = 0.068 SQ. IN./LIN. FT. (EACH WAY).
 5. HANDHOLE RING TO BE SET IN MORTAR OVER HANDHOLE WALL.
 6. FRAME AND COVER TO BE PROVIDED WITH GROUND CONNECTOR (FASTENED WITH 3/8-16 THREADS INTO BLIND HOLE) AND WELDED NUT. BOND BOTH ITEMS TO GROUND ROD USING #6CU. BARE CONDUCTOR.
 7. MAXIMUM ADJUSTMENT FOR COVER TO FINISHED GRADE SHALL BE 3".

6
 E503
ELECTRIC HANDHOLE DETAIL
 NO SCALE



5
 E503
NEW DUCT BANK DETAIL 'A-A'
 NO SCALE

ADDENDUM NO. 9

REF DWG #	REFERENCE DRAWING NAME



RHODE ISLAND
 DEPARTMENT OF TRANSPORTATION



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 OF: V2_163

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1	06/14/16	GMF			
2	07/08/16	GMF			

IMPROVEMENTS TO
 INTERSTATE ROUTE 195
 CONTRACT 16 VOLUME 2
 PROVIDENCE RHODE ISLAND
 ELECTRICAL DETAILS E503

LIGHTING FIXTURE SCHEDULE

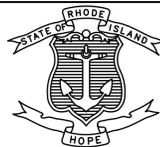
TYPE	ITEM CODE	DESCRIPTION	NUMBER OF LAMPS AND WATTAGE	MANUFACTURER	CATALOG NUMBER	VOLTAGE	TYPE OF MOUNTING	APPROVED EQUAL MANUFACTURERS
B	T07.9901	LED BOLLARD, 2-FOOT WITH BASE - MOUNTED WITHIN PLANTERS. COST FOR BASE SHALL BE INCLUDED IN THIS PAY ITEM.	30.5W LED	BEGA	7586-LED-XXX-2FT	120	BOLLARD	STERNBERG (OR APPROVED EQUAL MANUFACTURER)
CCG	T07.9919	CENTER CHANNEL NAVIGATION LIGHT (GREEN) WITH LED RETROFIT BULB AND STAINLESS STEEL STEM AND MOUNTING HARDWARE	9.5W LED RETROFIT BULB PHILIPS E27 A60 CL	B&B ROADWAY	FIXTURE: MODEL CC LAMP: PHILIPS #ND 9.5 - 60W E27 A60 CL	120	SURFACE	(OTHER MANUFACTURERS ARE ACCEPTABLE UPON APPROVAL)
CMR	T07.9920	CHANNEL MARGIN NAVIGATION LIGHT (RED) WITH LED RETROFIT BULB AND STAINLESS STEEL STEM AND MOUNTING HARDWARE	9.5W LED RETROFIT BULB PHILIPS E27 A60 CL	B&B ROADWAY	FIXTURE: MODEL CM LAMP: PHILIPS #ND 9.5 - 60W E27 A60 CL	120	SURFACE	(OTHER MANUFACTURERS ARE ACCEPTABLE UPON APPROVAL)
H	T07.9902 XFMR: T07.9917 (REFER TO ITEMS 830.9901 AND 830.9903 - 830.9910)	4-FOOT LINEAR LED LIGHT FOR HANDRAIL - PROVIDE WITH PLUG AND PLAY WHIPS TO CONNECT BETWEEN FIXTURES	12.8W LED	WINONA	WSL-105W-48"-100-30K-DM24V-F-XXX-TP-MOD	120/24	SURFACE HANDRAIL	I2SYSTEMS (OR APPROVED EQUAL MANUFACTURER)
H2	T07.9903 XFMR: T07.9917 (REFER TO ITEMS 830.9901 AND 830.9903 - 830.9910)	2-FOOT LINEAR LED LIGHT FOR HANDRAIL - PROVIDE WITH PLUG AND PLAY WHIPS TO CONNECT BETWEEN FIXTURES	6.4W LED	WINONA	WSL-105W-24"-100-30K-DM24V-F-XXX-TP-MOD	120/24	SURFACE HANDRAIL	I2SYSTEMS (OR APPROVED EQUAL MANUFACTURER)
IHA	T07.9904 DRIVER: T07.9915 (REFER TO ITEM 830.9902)	INTEGRAL LED HANDRAIL LIGHTING WITH ASYMMETRIC DISTRIBUTION AND INTEGRAL DRIVERS - HIGH OUTPUT. PROVIDE WITH SPLICE BOXES IN POSTS FOR DRIVERS.	3.81W/FT LED	IO LIGHTING	06-SSS-2-XXX-XX-ASYM-3KHO-XX-3	120	INTEGRAL	INTENSE COLE (OR APPROVED EQUAL MANUFACTURER)
LR	T07.9906 (REFER TO ITEMS 824.9901 AND 806.9907)	LED ROPE LIGHT	1.97W/FT	ILIGHT	T-24-W30-S-XX-SC-00	120/24	SURFACE	GE MODALIGHT (OR APPROVED EQUAL MANUFACTURER)
PLNS	T07.9905	RGBW LED COLOR CHANGING PIER LIGHT WITH 10 DEGREE OPTICS, DMX CONTROL, SHORT YOKE, ADJUSTABLE LINEAR SPREAD LENS, VISOR, SNOOT AND CORROSION-RESISTANT COATING. PROVIDE POWER/DATA WHIPS AS REQUIRED. FIXTURE TO ONLY REQUIRE 120V CIRCUIT CONNECTION - DMX CONTROL SIGNAL SENT OVER 120V FEED VIA 'LUMENTALK'	100W LED RGBW	LUMENPULSE	LBG-120-RGBW-VN-SI-DMX/RDM-SY-CRC-LBG-SNW-SI-LBG-VS-SI-LBG-LSLA-SI	120	SURFACE	(OTHER MANUFACTURERS ARE ACCEPTABLE UPON APPROVAL)
PLVN	T07.9907	RGBW LED COLOR CHANGING PIER LIGHT WITH 6 DEGREE OPTICS, DMX CONTROL, SHORT YOKE, ADJUSTABLE LINEAR SPREAD LENS, VISOR, SNOOT AND CORROSION-RESISTANT COATING. PROVIDE POWER/DATA WHIPS AS REQUIRED. FIXTURE TO ONLY REQUIRE 120V CIRCUIT CONNECTION - DMX CONTROL SIGNAL SENT OVER 120V FEED VIA 'LUMENTALK'	100W LED RGBW	LUMENPULSE	LBG-120-RGBW-VN-SI-DMX/RDM-SY-CRC-LBG-SNW-SI-LBG-VS-SI-LBG-LSLA-SI	120	SURFACE	(OTHER MANUFACTURERS ARE ACCEPTABLE UPON APPROVAL)
SL	T07.9909	LED STEP LIGHT FOR TERRACE STEPS	6.5W LED	BEGA	2248-LED-XXX	120	RECESSED	WE-EF (OR APPROVED EQUAL MANUFACTURER)
TL	T07.9910	INTEGRAL BLUE LED TAPE LIGHT FOR UPPER PLATFORM TABLES - PROVIDE WITH POWER SUPPLY MOUNTED IN NEMA ENCLOSURE	1.8W/FT	3FORM	LED TAPE LIGHT: 3-60-119 POWER SUPPLY: 3-60-135 NEMA ENCLOSURE: 3-60-2256 PROVIDE CONNECTORS AND JUMPERS AS REQUIRED	120/24	SURFACE	(OTHER MANUFACTURERS ARE ACCEPTABLE UPON APPROVAL)
UB	T07.9911 XFMR: T07.9916 (REFER TO ITEMS L15.9921 - L15.9926)	UNDER-BENCH 2-FOOT LINEAR LED LIGHT - PROVIDE WITH PLUG AND PLAY WHIPS TO CONNECT BETWEEN FIXTURES	6.4W LED	WINONA	WSL-105W-24"-100-30K-DM24V-F-XXX-TP-MOD	120/24	SURFACE	I2SYSTEMS (OR APPROVED EQUAL MANUFACTURER)
UP2	T07.9908	2' LINEAR RGBW LED COLOR CHANGING UPLIGHT WITH 10X10 DEGREE OPTICS, DMX CONTROLS AND CORROSION-RESISTANT COATING. PROVIDE POWER/DATA WHIPS AS REQUIRED. FIXTURE TO ONLY REQUIRE 120V CIRCUIT CONNECTION - DMX CONTROL SIGNAL SENT OVER 120V FEED VIA 'LUMENTALK'.	17.25W/FT LED RGBW	LUMENPULSE	LOG-120-24-RGBW-10X10-SAM-SI-DMX/RDM-CRC	120	SURFACE	COLOR KINETICS (OR APPROVED EQUAL MANUFACTURER)
UP3	T07.9912	3' LINEAR RGBW LED COLOR CHANGING UPLIGHT WITH 10X60 DEGREE OPTICS, DMX CONTROLS AND CORROSION-RESISTANT COATING. PROVIDE POWER/DATA WHIPS AS REQUIRED. FIXTURE TO ONLY REQUIRE 120V CIRCUIT CONNECTION - DMX CONTROL SIGNAL SENT OVER 120V FEED VIA 'LUMENTALK'.	17.25W/FT LED RGBW	LUMENPULSE	LOG-120-36-RGBW-10X60-SAM-SI-DMX/RDM-CRC	120	SURFACE	COLOR KINETICS (OR APPROVED EQUAL MANUFACTURER)
UP4	T07.9918	24 LINEAR RGBW LED COLOR CHANGING UPLIGHT WITH 10X60 DEGREE OPTICS, DMX CONTROLS AND CORROSION-RESISTANT COATING. PROVIDE POWER/DATA WHIPS AS REQUIRED. FIXTURE TO ONLY REQUIRE 120V CIRCUIT CONNECTION - DMX CONTROL SIGNAL SENT OVER 120V FEED VIA 'LUMENTALK'.	17.25W/FT LED RGBW	LUMENPULSE	LOG-120-48-RGBW-10X60-SAM-SI-DMX/RDM-CRC	120	SURFACE	COLOR KINETICS (OR APPROVED EQUAL MANUFACTURER)
V	T07.9913 POWER SUPPLY: T07.9914 (REFER TO ITEMS 830.9901 AND 830.9903 - 830.9910)	2-FOOT LINEAR RGB LED LIGHT FOR VERTICAL POSTS - PROVIDE WITH PLUG AND PLAY WHIPS TO CONNECT DRIVER. LENS SHALL BE SANDBLASTED TO DIFFUSE LED IMAGE.	12.4W LED	WINONA	WSL-107W-24"-100-RGB-DM24V-F-XXX-TP-SB-MOD	120/24	SURFACE	I2SYSTEMS (OR APPROVED EQUAL MANUFACTURER)

LIGHTING FIXTURE SCHEDULE NOTES:

- ALL LAMPS/SOURCES SHALL BE 3000K UNLESS OTHERWISE NOTED.
- ALL FINISH AND COLOR SELECTIONS SHALL BE VERIFIED WITH ARCHITECT PRIOR TO PURCHASE OF FIXTURES.
- ALL FIXTURES SHALL BE PROVIDED WITH DIMMING CAPABILITY. PROVIDE ALL ASSOCIATED CONTROLS AND COMPONENTS.
- PROVIDE ALL ASSOCIATED ACCESSORIES, TRANSFORMERS, AND CONTROL MODULES FOR A FULLY FUNCTIONING LIGHTING SYSTEM.
- ALL FIXTURES SHALL BE PROVIDED WITH TAMPER-RESISTANT MOUNTING HARDWARE.
- ALL FIXTURES SHALL BE CORROSION-RESISTANT AND SUITABLE FOR USE IN A MARINE SALTWATER ENVIRONMENT.

ADDENDUM NO. 9

REF DWG #	REFERENCE DRAWING NAME



RHODE ISLAND DEPARTMENT OF TRANSPORTATION



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DATE:
SHEET: V2_162
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IMPROVEMENTS TO INTERSTATE ROUTE 195 CONTRACT 16 VOLUME 2

PROVIDENCE RHODE ISLAND

LIGHTING FIXTURE SCHEDULE E700