August 26, 2019

STATE OF RHODE ISLAND AND PROVIDENCE PLANTATION
DEPARTMENT OF ADMINISTRATION

DIVISION OF PURCHASES BID NO. 7598901

RHODE ISLAND DEPARTMENT OF TRANSPORTATION

RHODE ISLAND CONTRACT NO.2019-CB-077

FEDERAL-AID PROJECT NO. FAP Nos: BRO-0257(003)

Bridge Group 12A - Sandy Bottom

200 feet east and 200 feet west of Sandy Bottom Bridge No. 257.

CITY/TOWN OF Coventry

COUNTY OF KENT

NOTICE TO PROSPECTIVE BIDDERS

ADDENDUM NO. 2 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. Contract Dates

1. Bid-Opening Date

   Bid-Opening Date Updated To "09/06/2019".

B. Specification Change/Addition

1. Appendix B Level 3 Transportation Management Plan Page 7 of 16

   Remove page 7 of 16 in its entirety and replace it with revised page 7 of 16 (R-1) attached to this Addendum No. 2. The completion date has been revised.

2. Page JS 1 through JS 3

   Remove pages JS 1 through JS 3 and insert revised pages JS 1 (R-1) through JS 3 (R-1) attached to this Addendum No. 2. Section 105.02 has been revised.

3. Page JS 20

   Remove page JS 20 in its entirety and replace it with revised page JS 20 (R-1) and add new page JS 20a attached to this Addendum No. 2. The contractor will hire a geotechnical engineer to oversee the pile installation operations and provide certificate of compliance.

4. Page JS 37

   Remove page JS 37 in its entirety and replace it with revised page JS 37 (R-1) and add new page JS 37a attached to this Addendum No. 2. The contractor will hire a geotechnical engineer to oversee the permanent sheet piling operations and provide certificate of compliance.

ADDENDUM NO. 2
ATTACHMENTS

5. Page JS 5

   Remove pages JS 5 and replace with revised page JS 5 (R-1) attached to this Addendum No. 2. Interim completion date has been added.

C. Drawings/Plans - Change/Addition

1. Plan Sheet 42 – Deck Plan, Sections and Top of Forms

   Remove Sheet No. 42 in its entirety and replace it with revised Sheet No. 42 (R-1) attached to this Addendum No. 2. Deck Note #5 has been removed.

RI Department of Transportation

Administrator, Division of Project Management

ATTACHMENTS

General Project Schedule & Construction Sequence*

It is anticipated that the work will begin in the Fall of 2019 and be completed in the Summer of 2023.
The construction sequence will be developed by the Contractor with the approval of the Engineer.

*The information in this section is not intended to and shall not supersede the approved schedule and milestone/completion dates for the project.

OTHER ACTIVITIES IN PROJECT VICINITY WITH POTENTIAL FOR CAUSING SIGNIFICANT CUMULATIVE IMPACTS	
ACTIVITY	DETAILS / DATES / LOCATIONS

Remove **Subsection 105.02 Plans and Shop Drawings,** pages 1-32 and 1-33 of the RI Standard Specifications for Road and Bridge Construction in its entirety and replace it with the following:

JOB SPECIFIC
PLANS AND SHOP DRAWINGS

105.02 PLANS AND SHOP DRAWINGS. Plans shall be supplemented by Contractor-prepared Shop Drawings as necessary to control the Work and its prosecution. Shop Drawings consisting of details that are not included in the Plans but required for the Work shall be furnished to the Department. Copies of any calculations required or used to prepare the Shop Drawings shall be furnished with the submission. Manufacturer's engineering data for material, including that for falsework and forms shall be furnished with each set of Shop Drawings.

1) The Contractor shall submit to the Department for approval or documentation, the necessary Shop Drawings in a timely manner so as not to adversely affect the Contractor's accepted schedule. The Contractor shall not perform work for items requiring shop drawings before receiving approval of the corresponding Shop Drawings. This approval shall neither confer upon the State nor relieve the Contractor of any responsibility for the accuracy and completeness of the drawings, conformity with Contract requirements and successful completion of the Contract. Prior to approval of the Contractor's shop drawing, the Contractor bears all risk and all costs of delays for items related to the respective shop drawing.

2) Shop Drawings illustrate the Contractor's way it intends to carry out the design concepts contained in the Contract and are not part of the Contract. The Contractor's submission of a Shop Drawing represents to the Engineer that the Contractor (i) coordinated the Shop Drawing with the Contract, (ii) verified and measured the field dimensions and other information, (iii) calculated all details, construction and performance criteria, and (iv) reviewed and accepted the Shop Drawings as its means and methods.

3) Submission of Shop Drawings. All shop drawings shall be submitted in a timely fashion such that the Contractor's accepted schedule will not be adversely impacted by the submittal process.

   Shop drawing submittals shall be via PDF files submitted electronically by the Contractor into the Department's web-based Project Management Portal(PMP),per RIDOT procedure posted in the Documents Tab. Each shop drawing submittal shall be accompanied by design computations, cuts from

manufacturers' catalogs, and/or all other supporting technical bulletins and data. Upon the Department's request, once shop drawings have been approved or approved as noted, the Contractor shall submit for the record four (4) hard copy sets of shop drawings to the Department

a) All Shop Drawings shall be stamped by a Rhode Island Registered Professional Engineer. The stamping of Shop Drawings shall be in accordance with the applicable requirements of the Rhode Island Board of Registration for Professional Engineers, or other Boards of Professional Registration, as applicable.

4) **Approval of Shop Drawings** All shop drawings will be reviewed and returned to the Contractor for appropriate action within 45 calendar days from receipt of the submission or resubmission, or as detailed in the Contract.

a) Shop drawings that are found to be erroneous, lacking required Professional Engineer stamps, lacking information necessary to control construction, or not in conformance with accepted design criteria will be rejected and returned to the Contractor. The Contractor shall address the Engineer's comments and resubmit revised shop drawings.

b) Shop drawings designated "Approved-As-Noted" may be used by the Contractor to commence corresponding work subject to satisfying the written conditions of the approval, such shop drawings shall be revised according to the notes (as applicable) and transmitted to the Engineer within fourteen calendar days of such approval.

5) There shall be no claims for additional payment by the Contractor, nor will there be an extension of time under Section 108.03 for delays resulting from resubmissions due to incomplete Shop Drawings, for the time taken by the Contractor to submit revised Shop Drawings caused by an erroneous submission, or by a previous submission either lacking the information necessary to control construction, or for not conforming to accepted design criteria. In addition, the Engineer's review time of the revised Shop Drawings will not constitute justification for an extension of time.

6) The Contract price includes the cost of furnishing all Shop Drawings, including resubmissions

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CODE 804.9916 H-SECTION PILE (12 INCH 89 LB/FT) - FURNISHED
CODE 804.9917 H-SECTION PILE (12 INCH 89 LB/FT) - DRIVEN
CODE 804.9918 H-SECTION PILE (12 INCH 89 LB/FT) - PILE POINT
CODE 804.9919 H-SECTION PILE (12 INCH 89 LB/FT) - DYNAMIC LOAD TESTS

DESCRIPTION

All work under this item shall be in accordance with the Rhode Island Department of Transportation Standard Specifications for Road and Bridge Construction, Amended 2018, specifically Section 804 and all applicable Contract documents, except as modified herein. The work shall also be in accordance with the applicable requirements of Sections 4 and 10 of the AASHTO LRFD Bridge Construction Specifications, latest edition, except as modified herein.

Installation of the pile foundation system is the responsibility of the Contractor and his/her Geotechnical Engineer. The Contractor shall hire a Geotechnical Engineer for the inspection and installation of the pile foundation. All submittal items as required herein shall be prepared and stamped by a Professional Engineer registered in the State of Rhode Island and submitted to the Engineer for review and approval. Upon completion of the installation of the pile foundations, the Contractor shall submit a compliance letter along with as-built plans to the Engineer. Cost of this work shall be considered incidental and included in these bid items.

This work shall consist of:

1. Furnishing piles (HP12x89) at the locations and orientation, with associated accessories and components to the elevations and criteria specified and in the Contract Documents or as directed by the Engineer. The maximum factored structural pile loads to be resisted are 115 Kips in axial compression and 20 Kips in lateral load, applied simultaneously.

   The Contractor shall furnish, at no additional cost to the State, in addition to the pile lengths ordered, increased pile lengths to provide for fresh heading and for such additional pile lengths as may be needed to suit the Contractor's method of operation and to attain the required pile tip and resistance criteria.

2. Obstructions to pile advance: If an obstruction to pile advance is encountered, the Contractor shall notify the Engineer immediately. An obstruction is defined as a man-made or man-placed object, structure, material or boulder occurring below grade which is unavoidable and completely stops pile advance despite the Contractor's diligent efforts, as determined by the Engineer. Driving or drilling tools, materials and other equipment lost in the obstruction remediation effort shall not be considered obstructions and shall promptly be removed by the Contractor without compensation.

The Contractor shall mobilize a suitable pile “spud” for an option to remediate pile obstructions and shall coordinate with the General Contractor for removal of relatively shallow obstructions to pile advance.

3. Submit Wave Equation Analyses (WEAPs) to confirm the suitability of the proposed pile driving system to meet project requirements, one (1) for each abutment/wingwall subsurface condition, total of two (2).

4. Furnish all piles with hardened steel points, as indicated on the plans and in accordance with this Special Provision.

CODE 805.99 PERMANENT SHEET PILING

DESCRIPTION

All work under this item shall be in accordance with Section 805 of the Rhode Island Department of Transportation Standard Specifications for Road and Bridge Construction, Amended 2018. The work shall also be in accordance with the applicable requirements of AASHTO LRFD Bridge Construction Specifications, latest edition, except as modified herein.

Installation of the permanent steel sheet piling system is the responsibility of the Contractor and his/her Geotechnical Engineer. The Contractor shall hire a Geotechnical Engineer for the inspection and installation of the permanent sheet piling. All submittal items as required herein shall be prepared and stamped by a Professional Engineer registered in the State of Rhode Island and submitted to the Engineer for review and approval. Upon completion of the installation of the permanent sheet piling, the Contractor shall submit a compliance letter along with as-built plans to the Engineer. Cost of this work shall be considered incidental and included in the bid item.

This work shall consist of:

1. Furnish and install permanent steel sheet pile, Skyline Steel NZ-26 Section composed of Grade 60 steel or Engineer approved equal, at the adjacent and west of Bridge locations indicated on the Contract Drawings. All permanent sheet pile delivered to the project site shall be accompanied by mill certificates fully describing the sheet pile steel composition and properties.

   The Contractor shall furnish, at no additional cost to the State, in addition to the sheet pile lengths ordered, increased sheet pile lengths to provide for fresh heading and for such additional sheet pile lengths as may be needed to suit the Contractor’s method of operation and to attain the required minimum sheet pile tip depth (elevation) below River bottom.

2. Obstructions to permanent sheet pile advance: If an obstruction to sheet pile advance is encountered, the Contractor shall notify the Engineer immediately. An obstruction is defined as a man-made or man-placed object, structure, material or boulder occurring below grade which is unavoidable and completely stops sheet pile advance despite the Contractor’s diligent efforts, as determined by the Engineer. Driving or drilling tools, materials and other equipment lost in the obstruction remediation effort shall not be considered obstructions and shall promptly be removed by the Contractor without compensation.

The Contractor shall mobilize suitable materials/equipment, in the opinion of the Engineer, to remediate permanent sheet pile obstructions and shall coordinate with the General Contractor for removal of relatively shallow obstructions to sheet pile advance.

3. Permanent sheet pile shall not be spliced.

4. All permanent sheet pile shall be furnished and installed per the manufacturer's recommendations, with continuous hardened steel bottom of sheet tip protection (points), Skyline Steel item No. XO 9800 or Engineer approved equal, in accordance with this Special Provision.

CODE 108.1000
PROSECUTION AND PROGRESS

In accordance with Section 108.08, Failure to Complete on Time, Para. a., Phased Completion, Interim Completion and Substantial Completion the following defines the Interim and Substantial Completion Dates and Associated Liquidated Damages:

Interim Completion: Phase 1 November 15, 2021

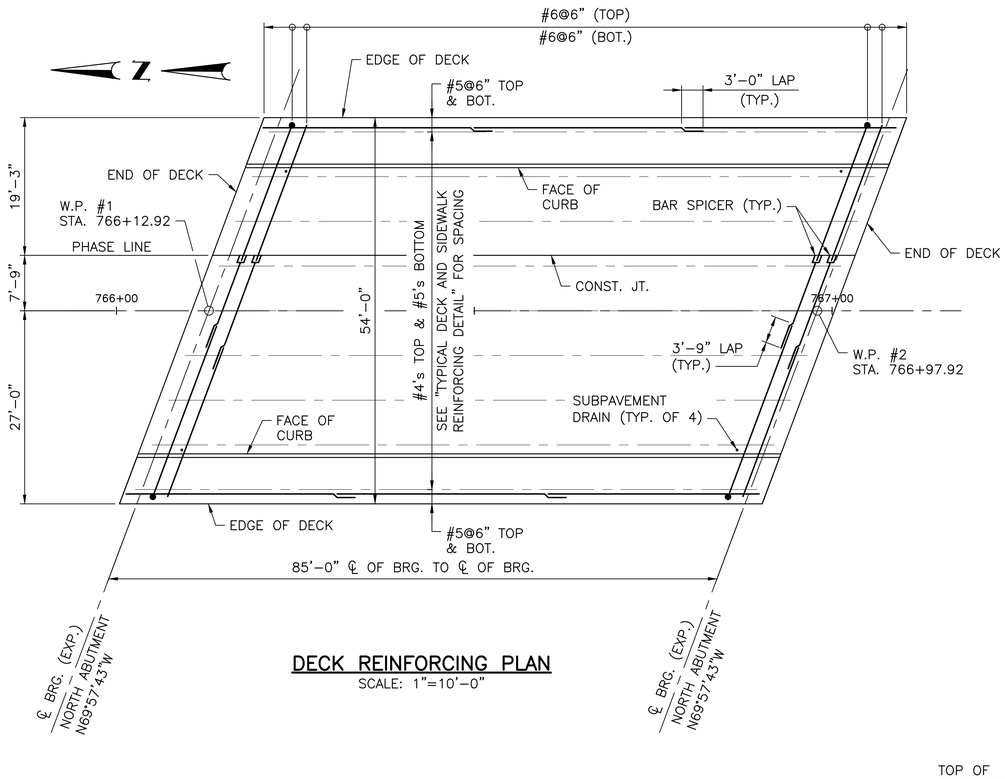
Substantial Completion: June 21, 2023

All Contract work shall be completed, as defined by Section 101.71.

Liquidated Damages shall be as outlined in section 108.08 of the RI Standard Specifications for Road and Bridge Construction.

FED. ROAD DIV. NO.	STATE	FEDERAL AID PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
1	RI		2019	42	52

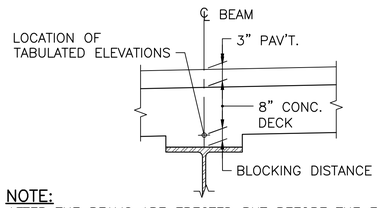
R-1



DECK REINFORCING PLAN
SCALE: 1"=10'-0"

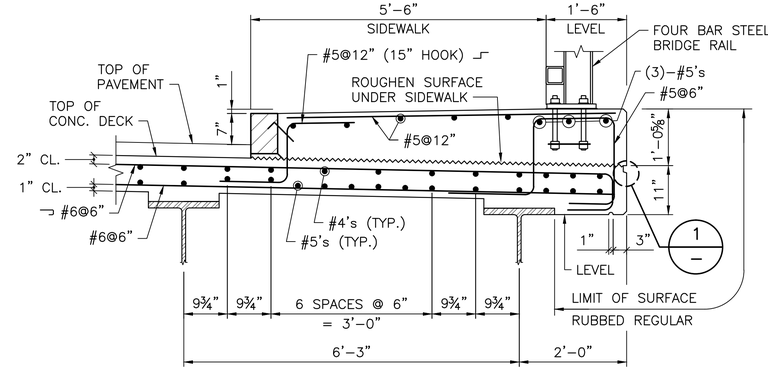
TOP OF FORM ELEVATIONS FOR DECK SLAB PRIOR TO PLACEMENT OF CONCRETE

Beam No.	N. ABUT. CL BRG.	INCREASING STATIONS									S. ABUT. CL BRG.
	0.0L	0.1L	0.2L	0.3L	0.4L	0.5L	0.6L	0.7L	0.8L	0.9L	1.0L
S-1	226.12	226.25	226.36	226.44	226.49	226.50	226.47	226.42	226.33	226.21	226.06
S-2	226.22	226.34	226.45	226.53	226.57	226.59	226.57	226.52	226.44	226.34	226.21
S-3	226.31	226.45	226.56	226.64	226.70	226.71	226.71	226.66	226.59	226.49	226.36
S-4	226.42	226.55	226.67	226.75	226.81	226.84	226.83	226.79	226.72	226.63	226.51
S-5	226.51	226.66	226.78	226.87	226.93	226.96	226.96	226.93	226.87	226.77	226.65
S-6	226.36	226.50	226.63	226.72	226.79	226.83	226.83	226.80	226.75	226.66	226.56
S-7	226.20	226.36	226.49	226.59	226.66	226.69	226.71	226.69	226.64	226.55	226.44
S-8	226.04	226.20	226.33	226.44	226.52	226.57	226.58	226.56	226.51	226.44	226.34
S-9	225.88	226.06	226.21	226.33	226.41	226.47	226.48	226.47	226.42	226.34	226.23

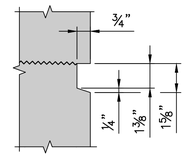


NOTE:
AFTER THE BEAMS ARE ERECTED BUT BEFORE THE FORMS ARE BUILT, ELEVATIONS ON TOP OF THE FLANGE OF THE BEAMS ARE TO BE OBTAINED AT THE POINTS INDICATED IN THE TABLE. THE DIFFERENCE BETWEEN THE ELEVATIONS OBTAINED AND THOSE SHOWN IN THE TABLE GIVES THE ACTUAL BLOCKING DISTANCE FROM THE TOP OF BEAM TO THE BOTTOM OF THE SLAB AT CENTER LINE OF BEAM.

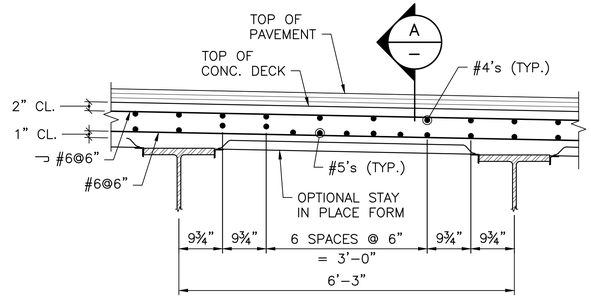
HAUNCH DETAIL
SCALE:1"=1'-0"



TYPICAL SIDEWALK AND DECK REINFORCING
SCALE:¾"=1'-0"

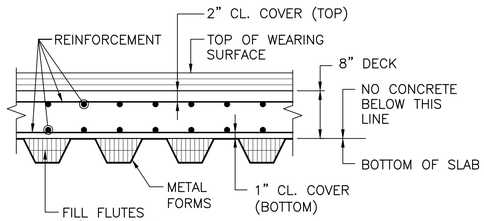


DETAIL 1 —
NOT TO SCALE

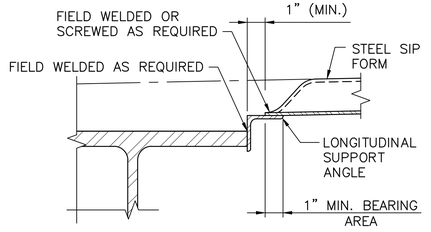


(OPTIONAL STAY IN PLACE FORM AT UTILITY BAY)

TYPICAL DECK REINFORCING
SCALE:¾"=1'-0"



SECTION A —
SCALE: 1"=1'-0"



SUPPORT ANGLE DETAIL
NOT TO SCALE

DECK NOTES:

1. TRANSVERSE REINFORCEMENT LISTED AS STRAIGHT SHALL BE SHOP OR FIELD BENT AS REQUIRED TO PROVIDE MINIMUM COVER.
2. DECK SLAB REINFORCING COVER SHALL HAVE TOLERANCE OF (+)¼", (−)0" FOR TOP BARS AND (+)⅛", (−)0" FOR BOTTOM BARS.
3. DECK FORMS SHALL BE OF THE REMOVABLE TYPE THAT WILL PRODUCE THE DIMENSIONS SHOWN ON THE PLANS. STAY−IN−PLACE (SIP) FORMS WILL BE ALLOWED FOR UTILITY BAYS. THE CONTRACTOR SHALL SUBMIT COMPLETE DESIGN AND DETAILS FOR THE STAY−IN−PLACE (SIP) FORMS IN ACCORDANCE WITH CODE 105.02 AND IN ACCORDANCE WITH THE REQUIREMENTS INDICATED IN THE CONTRACT DRAWINGS.
4. CHAIRS SHALL BE SPACED TO PROVIDE THE REQUIRED CONCRETE COVER WITH THE SPECIFIED TOLERANCES. MAXIMUM SPACING OF CHAIRS SHALL BE 5'−0" ON CENTER, PREFERABLY LOCATED AT THE INTERSECTION OF REINFORCEMENT. CHAIRS SHALL HAVE APPROVED CORROSION PROTECTION, (I.E. GALVANIZED, PLASTIC COATED, ETC.).
5.
6. DECK CONCRETE PLACEMENT SHALL BE IN ACCORDANCE WITH THE R.I. STANDARD SPECIFICATIONS.
7. SEE "MISCELLANEOUS DETAILS" SHEET FOR LONGITUDINAL CONSTRUCTION JOINT DETAIL.
8. THE CONTRACTOR HAS THE OPTION TO USE STAY−IN−PLACE FORMS IN ALL BAYS. SHOULD THE CONTRACTOR CHOOSE TO USE S−I−P'S, ONCE THE BRIDGE DECK HAS COMPLETELY CURED, THE CONTRACTOR SHALL REMOVE A 60" X 30" SECTION OF THE S−I−P FORM AT THE SOUTHWEST CORNER OF THE BRIDGE DECK BELOW THE CURB LINE. REMOVAL OF THE PORTION OF THE S−I−P WILL BE AT THE DIRECTION OF THE ENGINEER AND WILL BE CONSIDERED INCIDENTAL TO AND INCLUDED IN THE COST OF THE BRIDGE DECK. THIS EXPOSED AREA OF THE DECK UNDERSIDE WILL BE UTILIZED FOR FUTURE INSPECTIONS OF THE BRIDGE DECK.

ADDENDUM No. 2

S.I.P. NOTES

1. FORM ENDS SHALL BE CRIMPED CLOSED IN A TAPERED MANNER. SEPARATE END CLOSURE PIECES WILL NOT BE ALLOWED.
2. SUPPORT ANGLES SHALL BE PLACED IN THE "LEG DOWN" POSITION WHERE POSSIBLE. HOWEVER, WHERE THE "LEG UP" POSITION IS NECESSARY, THE UPPER MOST PORTION OF THE ANGLE SHALL NOT PROJECT MORE THAN 1 INCH ABOVE THE TOP OF THE BEAM. THE CONTRACTOR SHALL HAVE AN ASSORTMENT OF ANGLES OF VARIOUS SIZES AVAILABLE ON THE SITE TO CONFORM TO THIS REQUIREMENT.
3. S.I.P. FORMS SHALL BE DESIGNED FOR THE DEAD LOAD OF THE FORM AND THE CONCRETE PLUS A MINIMUM 50 POUNDS PER SQUARE FOOT FOR CONSTRUCTION LOADS.
4. MAXIMUM DEFLECTION UNDER THE WEIGHT OF FORMS, REINFORCEMENT AND CONCRETE, OR A MINIMUM OF 120 POUNDS PER SQUARE FOOT SHALL NOT EXCEED THE LESSER OF 1/180 OF THE FORM SPAN OR 1/2 INCH. THE DESIGN SPAN FOR FORMS SHALL BE THE CLEAR DISTANCE BETWEEN BEAM FLANGES MEASURED PARALLEL TO THE FORM FLUTES MINUS 2 INCHES.

REVISIONS		
NO.	DATE	BY
1	8/26/19	BS

COMMONWEALTH ENGINEERS & CONSULTANTS, INC.
400 SMITH STREET
PROVIDENCE, RI 02908

RHODE ISLAND
DEPARTMENT OF TRANSPORTATION

REPLACEMENT OF
SANDY BOTTOM BRIDGE No. 257

COVENTRY, RHODE ISLAND

DECK PLAN, SECTIONS AND TOP OF FORMS

CHECKED BY _____ DATE _____ SCALE AS SHOWN