



STATE OF DELAWARE  
DEPARTMENT OF TRANSPORTATION  
PO BOX 778  
DOVER, DELAWARE 19903

JACK MARKELL  
GOVERNOR

SHAILEN BHATT  
SECRETARY

**VIA OVERNIGHT DELIVERY**

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July 18, 2011

Contract No. T201007405.01  
Federal Aid Project No. EBHN-2010(29)  
BRS 1-687, 1-688, 1-693 SOUTH WALNUT ST. SOUTH MARKET ST.  
New Castle County

Ladies and Gentlemen:

Enclosed is Addendum No. 2 for the referenced contract consisting of the following:

1. One (1) page, Bid Proposal Cover, revised, to be substituted for the same page in the Proposal.
2. One (1) page, Special Provisions, 606509 - Repairing Metal Bridge Railing, Aluminum, page 130, revised, to be substituted for the same page in the Proposal.
3. Two (2) pages, Special Provisions, 763522 - Coast Guard Specific Conditions, pages 186 through 187, revised, to be substituted for the same page in the Proposal.
4. One (1) page, Bid Proposal Forms, Breakout Sheet - 3, revised, to be substituted for the same page in the Proposal.
5. Nine (9) sheets, Construction Plans, sheets 3, 4, 6, 55, 56, 58, 59, 60, and 67, revised, to be substituted for the same sheets in the Plan Set.
6. One (1) sheet, Construction Plans, sheet 60A, new, to be added to the Plan Set.

Questions and Answers:

1. I noticed in the plans that sheets 60 and 67 are identical. There is very little information for bridge 688 particularly the bridge notes.

**The Site Notes Sheet shown as sheet 60 is an incorrect sheet and will be replaced by a Phase 2 MOT sheet. Also, Phasing sheets for BR 1-687 are out of sequence and sheets 55-60 will be renumbered to match the correct sequence.**

2. I'm looking over the above mentioned project and noticed in the project notes it, references items 605629 and 605620 for painting and in the spec and breakout sheets it

references items 605533 and 605619. Let me know if I missed something.

**Items 605533 and item 605619 are the correct items (LS payment). Revisions have been made to Sheets 3, 4, 6 and 67 to correct this. The Special Provisions are correct.**

3. Note 3. On plan sheet 47 calls for the contractor to design a "temporary manually operated span lock". Does the Engineer have a suggested scheme for this device? What is the intended use for the span lock? Where does it fall in the "suggested shimming procedure"?

**A suggested scheme for the temporary manually operated lock bar is not provided. The temporary span lock is intended to transmit the indicated live load shear from one leaf to another during shimming of the front and rear span lock guides. The temporary span lock would be installed between Steps 2 and 3 of the "Suggested Shimming Procedure".**

4. We believe that some of the bascule machinery repairs and electrical repairs will require full bridge closures to vehicular traffic for hours, not minutes. Will vehicular traffic closures be allowed for periods possibly up to or exceeding 12 hours?

**As stated on sheet 105 of the Specifications, "Any bridge closure of more than 15 minutes shall be coordinated with and approved by the Department. The Department shall be notified at least 5 days in advance. Procedures of bridge closures to vehicular traffic more than 15 minutes shall be submitted for review and approval by the Department."**

5. On plan sheet 47 under "suggested shimming procedure..." it states "following the live load anchorage repair adjust the live load shoes for firm contact and proper span alignment in the closed position". Do you have a suggested procedure for this work? Will new materials be required?, What is the method of payment for this work of unknown scope?

**As needed, install stainless steel shim plates between the live load beam and the strike plate. New material may be needed. Include the shimming cost in Item 605590, Repair Item M4.**

6. On page 102 of the special provisions under Item 605590 - Bascule Machinery Repair in the second paragraph there is a reference to "new bushings". We do not see any requirement for new bushings. Is there any location that will require a new bushing?

**There are no new bushings in the Bascule Machinery Repair.**

7. In the specification section Item 605590 - Bascule Machinery Repair, third paragraph there is a statement: "Work shall include furnishing, installing and adjusting of all bridge machinery, and making final adjustments to assure proper mechanical operation of the bridge." Can you confirm that this and similar references are related only to the repair work designated in the plans and specs and performed by the contractor?

**Confirmed, this work is pertaining to only the repair work designated in the Contract Documents.**

8. Under Item 605590 there is a requirement to perform strain gage testing and to maintain span balance. Is this requirement in place for the machinery repair items only? Or does it include other work such as the removal and replacement of the sidewalk on Bridge 687? What is the method of payment for the initial balancing of the bridge, if required?

**As stated on sheet 102 of the Specifications, "Span balance shall be performed by the Contractor during all phases of construction on BR 1-687 Walnut Street and BR 1-693 Fourth Street, and includes strain gage balance testing and analysis, balance monitoring throughout construction, and all required weight changes to maintain the balance requirements provided herein.**

**Strain gages shall be installed and data recorded to evaluate the balance condition of each leaf prior to construction and after all construction work on the moveable leaves has been completed. The Contractor shall, at the direction of the Engineer, make necessary weight adjustments, based upon the analysis of the strain gage tests. A final strain gage retest shall be performed after the adjustments are complete to validate the final balance condition of the bridge. The Contractor shall also develop and maintain a spreadsheet that will calculate the balance condition of the movable leaves throughout the duration of the construction phase. These calculations shall be achieved by tracking all items added to, or subtracted from, each leaf and the change in balance condition resulting from such changes." The strain gage testing and maintaining balance applies to all work performed under this Contract. Include the cost for initial balancing under break out item Strain Gage Balancing.**

9. Note 5 on sheet 6 indicates the Pier 2N diaphragm replacements are paid under Item 605585. This item has a breakout sheet that does not include this work. Please advise where we are to put the cost of this work.

**The breakout sheet has been revised and this item of work has been added.**

10. It would seem that you need another Breakdown Item for Item 605585 Steel Structure Repair. Note #5 on Sheet 6 of 111 for Bridge 1-687 (Walnut St.) requires the replacement of Diaphragms at Pier 2N. We do not have a problem with the work to be performed, but there is no breakdown item for this work on the Breakout Sheet. Could you please add an Item No. 4 for this work.

**The breakout sheet has been revised and this item of work has been added.**

11. Item 606509, Repairing Metal Bridge Railing, Aluminum, Special Provision calls for a Basis of Payment of Lump Sum. The Schedule of Items lists it as 2058 LF. Can one of these be corrected?

**The unit has been revised to LF in the Special Provision.**

12. The plans for this project state that existing bridge plans are available upon request. Can these plans be made available electronically? If not can they be made available on paper?

Previous contracts referenced on the plans are:

1224-(3)  
1224-(4)  
89-074-05  
71-10-001  
21-074-07

**The existing bridge plans are posted on our website.**

**NOTE: The date for the receipt of bids has been extended until THURSDAY, July 28, 2011. Bids will be received until 2:00 P.M., Local Time, the Bidder's Room (B1.11.01), in the DelDOT Transportation Administration Center, 800 Bay Road, U.S. Route 113 South, Dover, DE.**

Please note the revisions listed above and submit your bid based upon this information.

Sincerely,

A handwritten signature in black ink, appearing to read "Scott S. Gottfried". The signature is fluid and cursive, with a long horizontal stroke at the beginning.

Scott S. Gottfried  
Competitively Bid Contracts Coordinator  
:ssg  
Enclosures

STATE OF DELAWARE



DEPARTMENT OF TRANSPORTATION

BID PROPOSAL

for

CONTRACT T201007405.01

FEDERAL AID PROJECT NO. EBHN-2010(29)

BRS 1-687, 1-688, 1-693 SOUTH WALNUT ST. SOUTH MARKET ST.  
NEW CASTLE COUNTY

Completion Date 376 Calendar Days

SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION  
DELAWARE DEPARTMENT OF TRANSPORTATION  
AUGUST 2001

Bids will be received in the Bidder's Room, Transportation Administration Center, 800 Bay Road, Dover, Delaware until 2:00 P.M. local time July 28, 2011



Contract No. T201007405.01

including tubes, structural shapes and all hardware, burring of bolts, for all labor, equipment, tools, and incidentals necessary to complete the item.

4/5/11

**606509 - REPAIRING METAL BRIDGE RAILING, ALUMINUM**

**Description:**

This work consists of furnishing all materials, repairing the existing railing posts to remain, placing new rails at the locations indicated on the Plans, and replacing all missing railing and post connectors in accordance with these specifications and as directed by the Engineer.

**Materials:**

New material for rails shall conform to the requirements of Section 606 and the following:

Aluminum pipe – The pipe railing shall be ASTM B429 standard pipe;

Aluminum posts and clip angles - The aluminum posts and clip angles shall conform to alloy and temper 6061-T6.

Aluminum channels – The aluminum channels shall conform to alloy and temper 6061-T6

Aluminum bolts, nuts and washers - All aluminum bolts and nuts shall conform to alloy and temper 6061-T6. All flat washers shall be ALCAD 2024-T4.

**Construction Methods:**

Prior to fabrication of new parts, the specified rail sizes of the existing railing shall be verified by field measurement.

The resulting repair shall match the existing railing architecture at other locations of the bridge. The remaining portions of the railing to which the new parts are attached are to be cleaned by an acceptable method upon completion of the repair.

**Basis of Payment:**

Payment for repairing metal bridge railing will be paid for at the Contract ~~Lump Sum~~ **unit price per linear foot** for Item 606509 – Repairing Metal Bridge Railing, Aluminum. Price and payment shall constitute full compensation for furnishing all materials, welding, fabricating and placing rails, repairing and cleaning the existing posts to which the rails will be attached, and for all labor, equipment, tools and incidentals necessary to complete this item of work.

4/5/11

7/13/11

during calendar non-work periods.

When the total of weather days and lost days recorded in the field exceed the advertised Contract Weather Days, the Contractor will be awarded a day for each day weather or conditions due to previous weather events prevent progress of the current or next work activity on the critical path of the schedule. When weather affects an activity not on the critical path and the activity becomes the critical path, the allowable days of time extension will be only for the days the activity was on the critical path. The Contractor and the Department will record and agree on these weather days. Inability to prosecute work not shown as activities in progress on the most recent CPM schedule will not be considered when determining an extension of Contract Time. The Engineer will have the final decision as to the number of calendar days the Contractor's work was limited to because of weather.

**Final (As Built) CPM Schedule Update:**

The CPMC shall meet with the Contractor and Resident Engineer and prepare the required as-built work schedule information and corrective work schedule information to finalize the CPM schedule. The progress reports generated by the previous CPM schedule update or revised update will be used to prepare this update information. This final update information shall reflect the final state of the project work. The final update information shall include all activities on which work was performed and/or corrections since the last update period and shall include as a minimum the activity ID and title, the actual start and finish dates, and the actual completion date. The final update information shall also include any revisions and change orders not previously included in the CPM schedule. These correction, revision, and change order modifications shall be reflected by a final update written narrative. The final update information will be as agreed to and signed off by the Resident Engineer and the CPMC. The CPMC will use the signed off information to status the CPM schedule database to prepare the final update schedule.

The Contractor shall submit the final CPM schedule database and a copy of the signed off final update information within five (5) calendar days after formal request for this update. The database and signed off information must match. The CPMA will generate a final CPM schedule update reflecting the Contractor's new information. Upon approval of the final CPM schedule update, the CPMA will furnish the Contractor graphic and report outputs of this final update.

The CPMC shall submit two (2) signed copies of the final CPM schedule update to the CPMA. Processing of the final estimate for payment will begin only after these signed copies are received. This final (as built) CPM schedule is the Contractor's final work schedule.

**Method of Measurement:**

The Project Control System will be portioned into two (2) items. The item, "Project Control System Development Plan", will be bid price lump sum. The item, "CPM Schedule Updates and/or Revised Updates", will be unit bid price per each approved update.

**Basis of Payment:**

The item, "763508 - Project Control System Development Plan", will be paid for at the Contract lump sum bid price, on the next monthly estimate after completion of the requirements of the Project Control System Development Plan, which includes approval of the Original CPM schedule.

The item, "763509 - CPM Schedule Updates and/or Revised Updates", will be paid for at the Contract unit bid price per each approved CPM schedule update. Revised updates are incidental to this item, except that each revised update(s) requested by the Department for purposes of incorporating Plan Revisions will be paid as one (1) approved CPM schedule update.

9/17/08

**763522 - COAST GUARD SPECIFIC CONDITIONS****Description:**

The Contractor shall prosecute his work in accordance with the specific requirements imposed by this Special Provision.

Under this item the contractor will be required to:

1. Prepare and furnish three copies of a plan and schedule for his operations within the waterway, for submission to Commander (AOWB), 5th Coast Guard District, 431 Crawford St., Portsmouth, VA 23704 for approval. The Contractor shall comply with all provisions of the Inland Rules of the Road. The Contractor shall give written notice to the Coast Guard of any planned temporary obstruction to the waterway navigation as well as copies of the plan and schedule of operations at least 30 days in advance of commencement of the work.

The plan and schedule of operations within the waterway shall include:

- (a) A sketch of the waterway indicating:
  - (1) Locations of all restrictions that will be placed in the waterway, such as barges, anchors and anchor lines.
  - (2) The location and height above high mean water of any scaffolding or netting.
- (b) A projected set of dates and length of time each operation will take, hours of each operation and whether or not the equipment will be removed at night.
2. Give immediate notice to the Coast Guard and to the Department, of any material, machinery or equipment lost, dumped, thrown overboard, sunk or misplaced during the progress of the work. The Contractor must remove the object with utmost dispatch. Until removal can be affected, the object or objects shall be properly marked in order to protect navigation. Notices to the Coast Guard and to the Department shall give a description and location of any such object and the action taken or being taken to protect navigation.
3. Furnish and install temporary obstruction lights as may be required by his operation and his permanent construction under this contract. Each temporary light shall consist of battery or power operated slow flashing amber light less than 60 flashes per minutes and visible for a range of 4 nautical miles on 90% of the nights of the year. Generally a lamp of 20 candle power will meet these requirements. If necessary to obtain the coverage required, a light or lights on the upstream and downstream sides shall be installed. Bridge piers shall be so marked until the construction has been completed and permanent navigational lights have been installed and determined to be operating satisfactorily. Four copies of Plans showing the proposed temporary lights during construction shall be submitted to the Department for approval before work is commenced. Deviations from the prescribed temporary lights during periods of construction will be permitted only upon written Coast Guard approval.

In the event the Contractor fails to comply with these foregoing requirements and the Federal Government is required to take action in this matter for the protection of navigation, the Department reserves the right to recover costs for such work from the Contractor.

The Federal Government and the Department assume no responsibility for any damage sustained or caused by the Contractor's plant, equipment or barges being anchored or moored at the aforementioned location and approval by either agency shall not act as a waiver of liability for any damage that may result from the Contractor's operation.

The Contractor shall maintain the temporary obstruction lights on permanent construction until permanent navigational lights have been installed and made operable in accordance with the Coast Guard requirements.

**Method of Measurement:**

The quantity of Coast Guard Specific Conditions will not be measured.

**Basis of Payment:**

The quantity of Coast Guard Specific Conditions will be paid for at the Contract lump sum price. Price and Payment will constitute full compensation for furnishing all materials to meet the ~~All work and the Contractor's costs in every respect for compliance with the specific conditions imposed by the Coast Guard Commandant and specific under this item, together with the maintenance and removal of the temporary obstruction lights, and installing of permanent navigational lights, and all and for furnishing all labor, equipment, tools and incidentals necessary to complete this work. else in connection therewith and incidental thereto which is not provided for under any stipulated pay item "Coast Guard Specific Conditions", which price and payment shall constitute full compensation for furnishing and installing all materials as described herein.~~

11/2/06

7/13/11

**763593 - MODIFICATIONS TO TRAFFIC BARRIER GATE**

**Description:**

This work consists of furnishing materials and making retrofit modifications to existing traffic barrier gate arm assemblies in accordance with this specification and the notes and details on the Plans.

**Materials and Construction Methods:**

Gate arms shall be constructed from a combination of fiberglass and 6005-T5 aluminum tubing, with length to match existing gates. Gate arms shall be equipped with a shear pin and hinge such that application of excessive force will cause the arm to swing away from traffic. Arms shall be fully covered with 16 inch alternating red-and-white engineering grade reflective sheeting. Side arm channels shall be steel, hot dip galvanized after fabrication. Truss cables and bumper rods shall be included as indicated on the plans, or when required as determined by the manufacturer. Truss cables shall be stainless steel.

Gate arm counterweights shall be adjusted to properly counterbalance the retrofitted gate arm or shall be new construction of steel, hot dip galvanized after fabrication. New counterweights shall be bolt-on type and sectionalized to permit field adjustment.

Warning lights shall be located on the gate arms as indicated on the plans. Light housings shall be of weatherproof construction with fully potted electronics. Lights shall be wired to alternately flash when the traffic signals are red or any time their associated gate arm is not fully raised. Lights shall continue flashing until gate arms are fully raised and traffic signals are green.

The construction methods shall be as recommended by the manufacturer.

**Method of Measurement:**

The quantity of traffic barrier gate modifications will not be measured.

**Basis of Payment:**

The quantity of traffic barrier gate modifications will be paid for at the Contract lump sum. Price and payment will constitute full compensation for fabricating, furnishing and installing all materials, removing and disposing of the gate components being replaced and for all labor, tools and equipment necessary to complete the work.

4/5/11

| SECTION 1                                     |              | BREAKOUT SHEET - 3 |   |            | CONTRACT NO. T201007405 |  |
|---|--------------|--------------------|---|------------|-------------------------|--|
| ITEM 605585 -STEEL STRUCTURE REPAIR           |              |                    |   |            |                         |  |
| ITEM NO.                                      | APPROX. QTY. | UOM                | DESCRIPTION   | UNIT PRICE | AMOUNT                  |  |
| <b>Bridge 687 - Walnut Street</b>             |              |                    |   |            |                         |  |
| 1   | 4            | LS EA              | Live Load Anchorage Repair                                    | \$         | \$                      |  |
| 2   | 3            | LS EA              | Sidewalk Stringer Repair                                      | \$         | \$                      |  |
| 3   | ± 21         | LS LF              | Traffic Barrier Rail  | \$         | \$                      |  |
| 4   | 8            | EA                 | W 18 x 50   | \$         | \$                      |  |
| <b>Bridge 688 - South Market Street</b>       |              |                    |   |            |                         |  |
| 1   | 4            | LS EA              | Modification of Trunnion Column Brace Connection to Pier Wall | \$         | \$                      |  |
| <b>Bridge 693 - Fourth Street</b>             |              |                    |   |            |                         |  |
| 1   | 4            | LS EA              | Live Load Anchorage Repair                                    | \$         | \$                      |  |
| 2   | ± 12         | LS LF              | Expansion Joint Armor at North Abutment                       | \$         | \$                      |  |
| TOTAL ITEM 605585 - Steel Structure Repair \$ |              |                    |   |            |                         |  |
| (LUMP SUM BID PRICE FOR ITEM 605585)          |              |                    |   |            |                         |  |



# GENERAL NOTES

- THIS PROJECT IS TO BE CONSTRUCTED IN ACCORDANCE WITH THE DELAWARE DEPARTMENT OF TRANSPORTATION "STANDARD SPECIFICATIONS", DATED AUGUST 2001 AND THE DELAWARE DEPARTMENT OF TRANSPORTATION "STANDARD CONSTRUCTION DETAILS", DATED 2001, INCLUDING ALL REVISIONS UP TO THE DATE OF ADVERTISEMENT.
- THE CONTRACTOR SHALL GIVE TWO (2) WEEKS NOTICE TO THE PROPERTY OWNER WHEN ANY FIXTURE, SHRUB OR OTHER OBJECT MUST BE REMOVED FROM THE RIGHT OF WAY OR EASEMENT AREA. IF THE OWNER HAS NOT ATTEMPTED TO SALVAGE THIS PROPERTY, THE CONTRACTOR SHALL REMOVE IT WITHOUT OBLIGATION. COMPENSATION SHALL BE INCIDENTAL TO THE CONTRACT.
- THE ENDS OF ALL CURBS SHALL BE DEPRESSED FLUSH WITH THE PAVEMENT AT A RATIO OF TWELVE TO ONE (12:1) UNLESS OTHERWISE DIRECTED BY THE ENGINEER.
- THE CONTRACTOR SHALL PROVIDE AND INSTALL PVC SLEEVES (4" INSIDE MINIMUM DIAMETER, 6" INSIDE MAXIMUM DIAMETER) IN PROPOSED CONCRETE SIDEWALKS, ISLANDS, AND MEDIANS FOR FUTURE TRAFFIC SIGN POSTS AS DIRECTED BY THE ENGINEER. THE LOWER END OF THE SLEEVE SHALL SIT ON THE TOP OF THE SUBBASE MATERIAL. THE COST SHALL BE INCIDENTAL TO THE CONTRACT.
- STAGING AREAS - PROPER EROSION AND SEDIMENT CONTROL MEASURES AS DETERMINED BY THE ENGINEER SHALL BE INSTALLED IN ALL STAGING AREAS. ALL AREAS USED BY THE CONTRACTOR FOR STAGING OPERATIONS SHALL BE FULLY RESTORED BY THE CONTRACTOR UPON COMPLETION OF THE CONTRACT. IF THE STAGING AREA IS PAVED, IT SHALL BE RESTORED TO ITS ORIGINAL CONDITION. IF THE AREA IS UNPAVED, IT SHALL BE RE-GRADED, TOPSOILED, SEEDED AND MULCHED IN ACCORDANCE WITH DELAWARE STANDARD SPECIFICATIONS 732, 734 AND 735, FOR TOPSOIL, SEED AND MULCH RESPECTIVELY, TO THE SATISFACTION OF THE ENGINEER. THE SEED SHALL ADHERE TO THE SPECIFICATIONS OF SECTION 734 FOR PERMANENT GRASS SEEDING - DRY GROUND. ALL COSTS ASSOCIATED WITH RESTORATION OF THE STAGING AREA SHALL BE AT THE CONTRACTOR'S EXPENSE. IF THE ENGINEER DETERMINES THAT A SATISFACTORY STAND OF GRASS DOES NOT EXIST AT THE TIME OF FINAL INSPECTION, ALL COSTS ASSOCIATED WITH REESTABLISHING A SATISFACTORY STAND OF GRASS SHALL BE AT THE CONTRACTOR'S EXPENSE.
- SITE REVIEWER - AN EROSION CONTROL SITE REVIEWER SHALL BE A PERSON FROM THE CONTRACTOR'S STAFF ASSIGNED TO EROSION AND SEDIMENT CONTROL IMPLEMENTATION AND MAINTENANCE AND SHALL BE REQUIRED ON SPECIFIC PROJECTS. THE NAME AND DNREC CERTIFICATION NUMBER OF EACH SITE REVIEWER SO REQUIRED SHALL BE SUBMITTED TO THE DEPARTMENT AT THE TIME OF BID. THE NAME OF THE DELAWARE REGISTERED PROFESSIONAL ENGINEER PROVIDING DIRECTION AND SUPERVISION OF THE SITE REVIEWER, AS REQUIRED IN SECTION 12.3 OF THE DELAWARE SEDIMENT AND STORMWATER REGULATIONS, SHALL ALSO BE SUBMITTED TO THE DEPARTMENT AT THE TIME OF BID. THE SITE REVIEWER REQUIREMENTS IN EFFECT ON THIS PROJECT SHALL BE MARKED WITH AN "X" BELOW:

| EROSION POTENTIAL FOR THIS PROJECT | SITE REVIEWER REQUIREMENT   |
|------------------------------------|---|
| ( X ) INSIGNIFICANT                | NONE  |
| ( ) MINOR                          | CONTRACTOR CERTIFICATION COURSE TRAINING ONLY, AS DEFINED IN SECTION 13 OF THE DELAWARE SEDIMENT AND STORMWATER REGULATIONS.  |
| ( ) MEDIUM                         | AT THE TIME OF BID OF THE CONTRACT, EITHER THE SUPERINTENDENT OR A SEPARATE INDIVIDUAL FROM THE CONTRACTOR'S STAFF SHALL BE A CERTIFIED CONSTRUCTION REVIEWER (CCR), AS DEFINED IN SECTION 12 OF THE DELAWARE SEDIMENT AND STORMWATER REGULATIONS.    |
| ( ) MAJOR                          | SUPERINTENDENT AND AN INDIVIDUAL FROM CONTRACTOR'S STAFF SHALL BE CCR. ONE INDIVIDUAL FROM THE CONTRACTOR'S STAFF MUST BE A CCR AT THE TIME OF BID OF THE CONTRACT. THE SUPERINTENDENT MUST BECOME A CCR WITHIN ONE YEAR AFTER THE AWARD OF CONTRACT. |

- ELECTRONIC PROJECT FILES THAT WILL BE MADE AVAILABLE TO THE CONTRACTOR INCLUDE:

|       |  |
|-------|--|
| ( X ) | NONE   |
| ( )   | ASCII DATA FILES WITH COORDINATES AND ELEVATIONS FOR PROPOSED POINTS AS SELECTED BY THE ENGINEER.                        |
| ( )   | RASTER FILES, IN .CAL FILE FORMAT, FOR ALL PLAN SHEETS.  |
| ( )   | EXISTING DIGITAL TERRAIN MODEL, IN .DTM FILE FORMAT, COMPATIBLE WITH SOFTWARE CURRENTLY USED BY DELDOT.                  |
| ( )   | PROPOSED DIGITAL TERRAIN MODEL, IN .DTM FILE FORMAT, COMPATIBLE WITH SOFTWARE CURRENTLY USED BY DELDOT.                  |
| ( )   | DESIGN FILE, IN .DGN FILE FORMAT, CONTAINING ONLY THE PROPOSED 3D TRIANGLES OF THE PROPOSED DIGITAL TERRAIN MODEL (DTM). |

- AMERICAN TRAFFIC SAFETY SERVICES ASSOCIATION (ATSSA) CERTIFIED TRAFFIC CONTROL SUPERVISOR REQUIREMENT FOR THIS PROJECT.

|       |  |
|-------|--|
| ( )   | THE CONTRACTOR SHALL NOT BE REQUIRED TO HAVE AN ATSSA SUPERVISOR ASSIGNED TO THIS PROJECT.   |
| ( X ) | THE CONTRACTOR SHALL HAVE AN ATSSA SUPERVISOR ASSIGNED TO THIS PROJECT. THE CONTRACTOR'S GENERAL SUPERINTENDENT FOR THIS PROJECT OR ANOTHER ATSSA CERTIFIED MEMBER OF THE CONTRACTOR'S PROJECT STAFF MAY BE THE ATSSA SUPERVISOR.  |
| ( )   | THE CONTRACTOR SHALL HAVE AN ATSSA SUPERVISOR ASSIGNED TO THIS PROJECT. THE ATSSA SUPERVISOR'S SOLE JOB SHALL BE SUPERVISION OF THE INSTALLATION, OPERATION AND MAINTENANCE OF TRAFFIC CONTROL DEVICES FOR THIS PROJECT. THE CONTRACTOR'S GENERAL SUPERINTENDENT FOR THIS PROJECT SHALL NOT BE THE ATSSA SUPERVISOR. |

- THE DISTURBED AREA FOR THIS PROJECT IS 0.06 ACRES.

# PROJECT NOTES

## SECTION 100

- THE DEPARTMENT RESERVES THE RIGHT TO INCREASE OR DECREASE THE QUANTITIES OF PAY ITEMS SPECIFIED FOR THE STRUCTURES LISTED IN THIS CONTRACT. SUCH ADDITIONS OR DELETIONS SHALL NOT BE CAUSE FOR AN INCREASE OR DECREASE IN ANY CONTRACT UNIT BID PRICES. THE "CHANGE" THRESHOLD OF PLUS OR MINUS 25%, AS DESCRIBED IN SECTION 104.05 OF THE DELDOT STANDARD SPECIFICATIONS, SHALL NOT APPLY TO THIS CONTRACT.
- SHOP DRAWINGS FOR STEEL COMPONENTS SHALL INCLUDE AN ITEMIZED LIST OF ALL PLATES, SHAPES AND HARDWARE WITH STEEL WEIGHTS GIVEN FOR EACH COMPONENT AND TOTAL WEIGHT SHOWN.
- ANY DAMAGE TO ITEMS NOTED TO BE RELOCATED OR RESET BY THE CONTRACTOR, AT THE DISCRETION OF THE ENGINEER, SHALL BE REPAIRED AND/OR REPLACED IN KIND AT THE CONTRACTOR'S EXPENSE.
- UNLESS OTHERWISE NOTED ON THE PLANS, THE CONTRACTOR SHALL, AS PART OF HIS PROJECT SCHEDULE, SUBMIT TO THE ENGINEER AN ESTIMATE OF THE MONTHLY PAYMENTS EXPECTED TO BE RECEIVED ON THE CONTRACT. THIS WILL BE REFERENCED AS THE "MONTHLY PAYMENT CHART".

A CHART IN MICROSOFT EXCEL, MICROSOFT WORD, OR HAND WRITTEN FORMAT WILL BE ACCEPTABLE FOR THIS PURPOSE. THE CHART SHOULD INCLUDE, AS A MINIMUM, COLUMNS FOR THE MONTH, YEAR AND ESTIMATED MONTHLY PAYMENTS. THE TOTAL OF ALL ESTIMATED MONTHLY PAYMENTS SHOULD EQUAL THE AWARDED CONTRACT TOTAL BID PRICE.

THE ENGINEER MAY REQUEST AN UPDATED "MONTHLY PAYMENT CHART" AT HIS DISCRETION, DEPENDING ON THE ACCURACY OF THE INITIAL ESTIMATES AND ACCORDING TO THE OVERALL NEEDS OF THE DEPARTMENT.

THE "MONTHLY PAYMENT CHART" WILL NOT BE CONSIDERED A BINDING DOCUMENT BY EITHER THE CONTRACTOR OR THE DEPARTMENT AND IS CONSIDERED SOLELY INFORMATIONAL.

ON PROJECTS REQUIRING CPM SCHEDULES, THE CONTRACTOR MAY, BUT IS NOT REQUIRED TO, "COST LOAD" THE CPM SCHEDULE IN ORDER TO GENERATE THE MONTHLY SPEND PAYMENT CHART.

COSTS TO PREPARE AND/OR UPDATE THE "MONTHLY PAYMENT CHART" ARE ADDRESSED AS FOLLOWS:

A. ON CONTRACTS REQUIRING CPM SCHEDULES AND UPDATES, PREPARATION OF THE INITIAL CHART SHALL BE INCIDENTAL TO ITEM 763508. UPDATES SHALL BE INCIDENTAL TO ITEM 763509.

B. ON CONTRACTS NOT REQUIRING CPM SCHEDULES, THE COST TO PREPARE AND UPDATE THE "MONTHLY PAYMENT CHART" SHALL BE INCLUDED IN ITEM 763000 - INITIAL EXPENSE.

## SECTION 200

1. IN AREAS WHERE TREES OR SHRUBS WILL BE OVERHANGING THE PROPOSED SIDEWALK, PRUNING MAY BE NECESSARY TO ACHIEVE A VERTICAL CLEAR SPACE OF 10 FEET ABOVE THE PROPOSED SIDEWALK ELEVATION. THE CONTRACTOR SHALL PRUNE EXISTING TREE AND SHRUB BRANCHES, WHICH OVERHANG THE SIDEWALK, IN ACCORDANCE WITH I.S.A. STANDARDS. THE CONTRACTOR SHALL NOTIFY DELDOT'S ROADSIDE ENVIRONMENTALIST ADMINISTRATOR, EUGENE 'CHIP' ROSAN, JR. AT (302) 760-2185 AND/OR HIS DESIGNEE, AT LEAST TWO (2) DAYS PRIOR TO THE PRUNING OPERATION. ALL COSTS ASSOCIATED WITH THE ABOVE WORK TO BE PAID UNDER ITEM 201000 - CLEARING AND GRUBBING.

2. ITEMS TO BE REMOVED UNDER ITEM 210000 - REMOVAL OF STRUCTURES AND OBSTRUCTIONS SHALL INCLUDE, BUT NOT BE LIMITED TO THE FOLLOWING:  
 - EXISTING STEEL  
 - BARRIER RAIL  
 - STEEL PEDESTRIAN RAIL

## SECTION 300

## SECTION 400

## SECTION 500

## SECTION 600

PCC MASONRY - ABUTMENTS, PIERS, WINGWALLS, ETC.

1. SUBMITTALS FOR WET AND DRY APPLICATIONS ARE REQUIRED FOR ITEM 602611: REPAIR OF CONCRETE STRUCTURE BY EPOXY INJECTION.

2. POWER WASHING OF HORIZONTAL SURFACES (PIER CAPS AND ABUTMENTS): SITE SPECIFIC PROJECT NOTES REQUIRE SEALING OF HORIZONTAL SURFACES ON PIER CAPS AND ABUTMENTS. PRIOR TO APPLICATION OF SEALANT, THE HORIZONTAL SURFACES MUST BE PREPARED IN ACCORDANCE WITH THE SPECIFIED SPECIAL PROVISION. WHEN USING PRESSURE WASH, CONTRACTOR SHALL PROTECT ROADSIDE DRAINAGE INLETS AND ABOVE GROUND DRAINAGE SYSTEMS AS NECESSARY TO COMPLY WITH DELDOT NPDES ENVIRONMENTAL PERMIT (NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM).

3. WHEN PERFORMING SPALL REPAIRS ON VERTICAL CONCRETE SURFACES UNDER PAY ITEM 602586, THE PRODUCT DATA SHEET FOR PROPOSED MATERIAL MUST STATE THAT THE MATERIAL IS SUITABLE FOR REPAIRS ON VERTICAL SURFACES.

4. WHEN REPAIRING CONCRETE VERTICAL SURFACES, SUCH AS ABUTMENTS, PIER CAPS AND COLUMNS, AND WHEN REPAIRING CONCRETE DECK HAUNCHES, PERFORM REPAIRS IN ACCORDANCE WITH THE FOLLOWING REQUIREMENTS:

a. REPAIR ALL SPALLS AS PER THE "SPALL REPAIR" DETAIL SHOWN ON THE PLANS.

b. SPALLS WITH SURFACE AREA LESS THAN 1.0 SF, SHALL BE PAID UNDER ITEM 602572.

c. PERFORM SOUNDING FOR DELAMINATION OF CONCRETE AROUND VISIBLE CRACKS, SPALLS AND OTHER DETERIORATION. SOUNDING OF CONCRETE SHALL BE INCIDENTAL TO THE APPROPRIATE SPALL REPAIR ITEM.

d. CRACK WIDTHS LARGER THAN ONE HALF INCH SHALL BE REPAIRED BY GROUTING. PAYMENT WILL BE UNDER ITEM 602572, REPAIR OF EXISTING PCC STRUCTURES.

5. ALL CONCRETE SPALL REPAIR PERFORMED UNDER PAY ITEM 602572 OR 602586 SHALL BE PERFORMED IN ACCORDANCE WITH THE REQUIREMENTS AS STATED IN THE RESPECTIVE SPECIAL PROVISION, AND IN ACCORDANCE WITH THE FOLLOWING ADDITIONAL REQUIREMENTS:

a. PERFORM ABRASIVE BLASTING OF REINFORCING STEEL AS NECESSARY TO REMOVE CORROSION AND OTHER CONTAMINANTS PRIOR TO PLACEMENT OF PATCHING MORTAR OR CONCRETE.

b. PREPARED CONCRETE SURFACE SHALL BE ROUGHENED BY ABRASIVE BLASTING PRIOR TO PLACEMENT OF PATCH MORTAR OR CONCRETE. THIS ROUGHENING IMPROVES THE MECHANICAL BOND WHEN PATCH MATERIAL IS APPLIED.

6. WHEN CONCRETE SEALANT APPLICATION IS SPECIFIED FOR ABUTMENTS AND BACKWALLS, THE BACKWALL VERTICAL SURFACE SHALL BE SEALED A DISTANCE OF ONE FOOT FROM TOP OF THE BEAM SEATS (UNLESS STATED OTHERWISE IN SITE SPECIFIC NOTES). SEAL THE ENTIRE HORIZONTAL TOP SURFACE OF ABUTMENTS AND BEAM SEATS. SEE SITE NOTES FOR ADDITIONAL REQUIREMENTS.

PCC MASONRY - DECKS

1. EPOXY BASED CRACK SEALER SHALL BE APPLIED TO BRIDGE DECKS UNDER PAY ITEM 602629 WHEN SPECIFIED IN THE SITE SPECIFIC PROJECT NOTES FOR EACH BRIDGE. THE CONTRACTOR SHALL SUBMIT THE PRODUCT DATA SHEET FOR THE PROPOSED MATERIAL FOR USE PRIOR TO COMMENCEMENT OF WORK. THE PRODUCT DATA SHEET SHALL SPECIFY DRYING TIME FOR CRACK SEALER. THE PRODUCT DRYING TIME SHALL ALLOW FOR LANE OPENING TO TRAFFIC WITHIN SIX HOURS (OR LESS) OF APPLICATION.

2. WHEN REPAIRING BOTTOM SIDE OF CONCRETE DECKS, PERFORM REPAIRS IN ACCORDANCE WITH THE FOLLOWING REQUIREMENTS, UNLESS SPECIFIED OTHERWISE IN SITE SPECIFIC PROJECT NOTES:

a. FOR SPALL AND DELAMINATION REPAIRS LESS THAN 3" DEPTH, USE PAY ITEM 602572. FOR REPAIRS GREATER THAN OR EQUAL TO 3" DEPTH, PAY ITEM 602586 OR 602577 SHALL BE USED AS DETERMINED BY DELDOT ENGINEER. CONSULT WITH ENGINEER PRIOR TO PERFORMING DEEP SPALL REPAIRS ON BOTTOM SIDE OF DECK. LANE CLOSURES ON BRIDGE DECK MAY BE REQUIRED.

b. PERFORM SOUNDING FOR DELAMINATION OF CONCRETE AROUND VISIBLE CRACKS, SPALLS AND OTHER DETERIORATION. SOUNDING OF CONCRETE SHALL BE INCIDENTAL TO THE APPROPRIATE SPALL REPAIR ITEM.

c. PREPARE ALL SPALLS AS PER THE "SPALL REPAIR" DETAIL SHOWN ON THE PLANS. ALL EXPOSED STEEL SHALL BE THOROUGHLY CLEANED OF RUST AND OTHER CONTAMINANTS. PAYMENT SHALL BE INCLUDED IN THE UNIT BID PRICE FOR ITEMS 602572, 602586 AND 602577.

3. CONCRETE DECK SPALLS SHALL BE REPAIRED IN ACCORDANCE WITH ITEMS 602575, 602576 OR 602577, UNLESS SPECIFIED OTHERWISE IN THE SITE SPECIFIC PROJECT NOTES. PREPARE ALL SPALLS AS PER THE "SPALL REPAIR" DETAIL SHOWN ON THE PLANS. APPLY AN EPOXY BONDING COAT TO ROUGHENED CONCRETE SURFACE. THOROUGHLY CLEAN THE SURFACE PRIOR TO APPLICATION OF BONDING COAT. WHERE EXISTING DECK OVERLAYS ARE PRESENT, SAW CUT TO A DEPTH NECESSARY TO PENETRATE THE ENTIRE OVERLAY DEPTH (TYPICALLY 2" TO 3" DEEP). ALL WORK DESCRIBED IN THIS PROJECT NOTE SHALL BE INCLUDED IN THE BID PRICE FOR THE APPLICABLE DECK SPALL REPAIR PAY ITEM.

BRIDGE BEARINGS

1. MATERIAL SPECIFICATION FOR PAY ITEM 605636 CLEAN AND LUBRICATE BRIDGE BEARINGS SHALL COMPLY WITH THE FOLLOWING: GREASE APPLIED TO STEEL BRIDGE BEARINGS SHALL BE SHELL RHODINA GREASE SDX 2, OR EXXON MOBIL CENTAUR MOLY GREASE, OR APPROVED EQUAL. FOR BRIDGES WITH STEEL STRUCTURAL COMPONENTS PAINTED GREEN, THE GREASE SHALL BE COATED WITH A MATCHING COAT OF THE FINISH PAINT (GREEN, FEDERAL SPECIFICATION \*24172, STANDARD 595B). THE GREASE SHALL BE APPLIED TO THE ENTIRE STEEL BEARING COMPONENT FOR EACH BRIDGE BEARING.

STRUCTURAL STEEL PAINTING

1. THE PAINT SYSTEM USED FOR THE STRUCTURAL STEEL SHALL BE APPLIED IN A THREE (3) COAT SYSTEM APPLICATION.

2. ALL STRUCTURES IN THIS CONTRACT ARE ASSUMED TO CONTAIN LEAD BASED PAINT ON ALL OF THE STRUCTURAL STEEL. FOR BRIDGES REQUIRING SPOT PAINTING, THE CONTRACTOR SHALL USE PAY ITEM ~~605629~~ 605533 FOR THE PAINT REMOVAL ON THE STRUCTURES.

3. PRIOR TO APPLYING NEW PAINT SYSTEM, ALL EXISTING COATINGS ON THE STRUCTURAL STEEL SHALL BE COMPLETELY REMOVED, IN ACCORDANCE WITH ITEM ~~605629~~ 605533 (AS SPECIFIED IN THE SITE SPECIFIC PROJECT NOTES). THERE SHALL BE NO OVER COATING OF EXISTING PAINT OR SEALANT SYSTEMS.

4. IF ANY CLEANING TO BE PERFORMED REQUIRES PRE-CLEANING BY PRESSURE WASHING, THEN THIS PRESSURE WASHING SHALL BE INCIDENTAL TO ITEM ~~605629~~ 605533.

5. FOR BRIDGES WITH EXISTING STEEL STRUCTURAL COMPONENTS PAINTED GREEN, THE COLOR OF PAINT SHALL BE GREEN (\* 24172) AS FEDERAL STANDARD 595B. FOR EXISTING STRUCTURAL COMPONENTS, PAINTED TAN, PAINT SHALL BE YELLOW (\*3344B) OF FEDERAL STANDARD 595B. THE COLOR SHALL BE SUBMITTED TO DELDOT FOR APPROVAL PRIOR TO COMMENCEMENT OF WORK.

6. HAZARDOUS WASTE GENERATED DURING STEEL CLEANING OPERATIONS SHALL BE DISPOSED OF IN ACCORDANCE WITH REQUIREMENTS STATED IN 605629, AND IN ACCORDANCE WITH ALL STATE, FEDERAL AND LOCAL REGULATIONS. CONTRACTOR SHALL SUBMIT COPIES OF ALL HAZARDOUS WASTE MANIFESTS AND TICKETS TO DELDOT.

## SECTION 700

1. TRASH, RUBBISH, DEBRIS OR BRUSH THAT HAMPERS REPAIR / MAINTENANCE WORK IN THIS CONTRACT (AS DETERMINED BY THE ENGINEER), SHALL BE REMOVED WITHIN THE PROJECT LIMITS AND SHALL BE INCIDENTAL TO PAY ITEM 763000 (INITIAL EXPENSE).

2. GRASS AND SOIL AREAS WITHIN STATE RIGHT-OF-WAY THAT HAVE BEEN DAMAGED BY EQUIPMENT DURING THIS CONTRACT, SHALL BE RESTORED WITH TOPSOIL, SEED AND MULCH AT CONTRACTOR'S OWN EXPENSE, AND IN ACCORDANCE WITH THE REQUIREMENTS FOR ITEMS 732002, AND 734013 AND ~~735533~~.

3. ON OPEN GRID BRIDGE DECK TRAFFIC STRIPING SHALL BE PAINTED OVER WITH GREEN PAINT AND TEMPORARY STRIPING SHALL BE PAINTED WHERE NEEDED. GREEN PAINT SHALL BE INCIDENTAL ITEM 748019 TEMPORARY MARKINGS, PAINT 4".

4. IN AREAS WHERE PROPOSED CURB MEETS EXISTING CURB AND THE TWO CURB TYPES ARE NOT SIMILAR, THE PROPOSED CURB SHALL BE TRANSITIONED IN 10 LINEAR FEET, UNLESS OTHERWISE DIRECTED BY THE ENGINEER. PAYMENT FOR THIS WORK, INCLUDING SAW CUTTING EXISTING CURB SHALL BE INCIDENTAL TO THE PROPOSED CURB ITEM.

5. WHERE PROPOSED CONCRETE SIDEWALK IS CONSTRUCTED TO MEET EXISTING SIDEWALK, THE EXISTING SIDEWALK SHALL BE SAWCUT AT THE TIE-IN POINT OR MEET THE NEAREST EXISTING SIDEWALK JOINT. ALL SAW CUTTING SHALL BE FULL DEPTH, UNLESS OTHERWISE NOTED ON THE PLANS OR DIRECTED BY THE ENGINEER AND SHALL BE PAID FOR UNDER ITEM 762002 - SAWCUTTING, CONCRETE, FULL DEPTH.



DELAWARE  
DEPARTMENT OF TRANSPORTATION

REVISED NOTES

ADDENDUMS / REVISIONS

NOT TO SCALE

BR 1-687,1-688,1-693; SOUTH WALNUT  
STREET, SOUTH MARKET STREET AND  
FOURTH STREET OVER CHRISTINA RIVER

CONTRACT

T201007405

COUNTY

NEW CASTLE

BRIDGE NO.

1-687,1-688,1-693

DESIGNED BY: TM

CHECKED BY: MAA

NOTES

SHEET NO.

3

TOTAL SHTS.

111

SECTION 700 (CONT.)

6. ALL HOT-MIX SAW CUTTING SHALL BE FULL DEPTH, UNLESS OTHERWISE NOTED ON THE PLANS, OR AS DIRECTED BY THE ENGINEER.

MISCELLANEOUS

1. ALL WORK SHALL BE PERFORMED WITHIN THE EXISTING STATE RIGHT-OF-WAY. RIGHT-OF-WAY INFORMATION SHALL BE OBTAINED FROM THE FOLLOWING PREVIOUS CONTRACTS:

CONTRACT 21-074-07 - BR 688 SOUTH MARKET STREET BRIDGE REHABILITATION  
 CONTRACT 71-10-001 - THIRD STREET BRIDGE  
 CONTRACT 1224-14) - WALNUT STREET BRIDGE

PREVIOUS CONTRACT PLAN COPIES MAY BE ACQUIRED FROM THE DELAWARE DEPARTMENT OF TRANSPORTATION.

2. ALL COSTS FOR ACCESS BENEATH BRIDGES (SUCH AS SCAFFOLDING, BUCKET TRUCKS, LADDERS, ETC.) SHALL BE INCLUDED IN THE BID PRICE FOR EACH APPLICABLE MAINTENANCE AND REPAIR PAY ITEM. NO SEPARATE PAYMENT WILL BE MADE FOR ACCESS.

3. SHOULD THE CONTRACTOR INTEND TO ACCESS BRIDGE SUBSTRUCTURE UNITS FROM ADJOINING PROPERTIES HE MUST SUPPLY A COPY OF THE TRESPASS AGREEMENT TO THE ENGINEER PRIOR TO COMMENCING WORK.

4. THE CONTRACTOR SHALL REMOVE AND REPLACE ANY APPURTENANCE THAT OBSTRUCTS COMPLETION OF ANY WORK ITEM, PAYMENT INCIDENTAL TO THE WORK ITEM.

CONSTRUCTION RESTRICTIONS

1. U.S. COAST GUARD 30-DAY ADVANCED COORDINATION/APPROVAL:  
 THE WATERWAYS ARE USED FOR RECREATIONAL PURPOSES. THE CONTRACTOR SHALL PROVIDE SAFE PASSAGE THROUGH THE WORK AREAS FOR THE WATERWAY USERS AND SHALL HAVE THE PASSAGEWAY CLEARLY MARKED. PAYMENT IS INCLUDED UNDER PAY ITEM 763522, "COAST GUARD SPECIFIC CONDITIONS". ANY CONTRACTOR ACTIVITY, WHICH WILL RESULT IN THE SHORT-TERM RESTRICTION OF THE WATERWAYS TO THOSE INDIVIDUALS, IS TO BE COORDINATED WITH THE ENGINEER AND THE U.S. COAST GUARD ONE MONTH IN ADVANCE. THE WORK WITHIN THE WATER SHALL BE LIMITED TO WHAT APPEARS ON THESE PLANS AND BARGE PLACEMENT. IF ANY ADDITIONAL IN-WATER/WETLANDS WORK IS NEEDED, IT MUST BE COORDINATED WITH THE U.S. COAST GUARD PRIOR TO BEGINNING WORK AND BE IN CONFORMANCE WITH ITEM 763522, "COAST GUARD SPECIFIC CONDITIONS". CONTACT BILL BRAZIER AT (757) 398-6422, AS WELL AS SUBMIT A WRITTEN NOTICE (WHICH INCLUDES A SKETCH DEPICTING THE LOCATION AND DURATION OF ALL RESTRICTIONS) TO THE COMMANDING OFFICER (AOWB), 5TH COAST GUARD DISTRICT, FEDERAL BUILDING 431 CRAWFORD ST., PORTSMOUTH, VA 23704 FOR APPROVAL.

2. BRIDGE 1-687-MIGRATORY BIRDS CONSTRUCTION RESTRICTION: APRIL 15 - AUGUST 1 (INCLUSIVE). EITHER BEGIN CONSTRUCTION ON THE UNDERSIDE OF THE STRUCTURE (SPANS 15-45 AND 1N-3N) PRIOR TO APRIL 15 (TO PREVENT BIRDS FROM NESTING) OR WAIT UNTIL AFTER AUGUST 1 (AFTER HATCHLINGS HAVE LEFT) TO BEGIN WORK ON THE UNDERSIDE. IF NEITHER OF THESE OPTIONS IS PRACTICABLE, THEN PRIOR TO APRIL 14 DETERRENT NETTING WITH 3/4" X 3/4" MAXIMUM OPENINGS (OR SIMILAR DEVICE) SHALL BE INSTALLED HORIZONTALLY UNDERNEATH THE STRUCTURE. THE NETTING SHOULD BE PULLED TAUT AND ATTACHED IN A WAY THAT BIRDS ARE UNABLE TO ENTER THE AREA BETWEEN THE NETTING AND THE STRUCTURE. NETTING SHALL BE PAID FOR UNDER ITEM 763623 - NETTING MIGRATORY BIRD EXCLUSION.

3. BRIDGE 1-688 - FISHERIES (RIVER HERRING, AMERICAN SHAD, HICKORY SHAD): NO IN-WATER WORK FROM MARCH 15 - JUNE 30 (INCLUSIVE). THERE IS NO IN-WATER WORK PROPOSED AT BRIDGES 1-687 OR 1-693 SO THIS RESTRICTION WILL NOT APPLY.  
 ENDANGERED SPECIES - NONE  
 MIGRATORY BIRDS - NONE

4. CULTURAL RESOURCES: THE CONTRACTOR SHALL BE AWARE THAT STATE BRIDGES 1-687 AND 1-688 ARE CONSIDERED STRUCTURES ELIGIBLE FOR THE NATIONAL REGISTER OF HISTORIC PLACES. DELDOT ENVIRONMENTAL STUDIES SECTION MUST BE NOTIFIED AT (320) 760-2264 IF THERE ARE ANY PROPOSED CHANGES TO THE PROJECT METHODS, FOOTPRINT, MATERIALS, OR DESIGNS, TO ALLOW THE DEPARTMENT TO COORDINATE WITH THE APPROPRIATE RESOURCE AGENCIES (COE, DNREC, and SHPO), FOR APPROVAL.

5. FOR BRIDGE 1-688, SEE ENVIRONMENTAL COMPLIANCE PLAN FOR FURTHER RESTRICTIONS/GUIDANCE ASSOCIATED WITH THIS PROJECT.

6. THE CONTRACTOR MAY NOT WORK IN THE CHRISTINA RIVER THE FIRST SUNDAY OF OCTOBER (EACH YEAR). THE CONTRACTOR WILL NOT BE ALLOWED TO HAVE ANY EQUIPMENT, WORK BOATS, WORK PLATFORMS, ETC. IN THE MAIN CHANNEL CHRISTINA RIVER DURING THESE PERIODS.

MAINTENANCE OF TRAFFIC NOTES:

1. WORK SHALL BE PERFORMED IN A MANNER THAT WILL REASONABLY PROVIDE THE LEAST PRACTICABLE OBSTRUCTION TO TRAFFIC, CONSISTENT WITH SAFETY STANDARDS AND SHALL COMPLY WITH THE LATEST EDITION OF THE MANUAL TITLED "DELAWARE DEPARTMENT OF TRANSPORTATION MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD) FOR STREETS AND HIGHWAYS" HERE AFTER REFERED TO AS THE TRAFFIC CONTROL MANUAL.

2. MAINTENANCE OF TRAFFIC DURING LANE CLOSURES NOT DETAILED IN THE TRAFFIC CONTROL PLANS FOR THIS PROJECT SHALL CONFORM TO CASE 7 FOR SINGLE LANE CLOSURE AND CASE 9 FOR DOUBLE LANE CLOSURE AS SHOWN.

3. GRADING AND MAINTAINING BASE COURSE THAT IS BEING USED AS A TRAVELWAY, DRIVEWAY, ACCESS RAMP, ETC. SHALL BE INCIDENTAL TO ITEM 763500 - MAINTENANCE OF TRAFFIC. EXCESS BASE COURSE MATERIAL SHALL BE PUSHED AHEAD AND USED IN THE NEXT SEGMENT AND SHALL BE INCIDENTAL TO THE PARTICULAR BASE COURSE PAY ITEM. NO SEPARATE PAYMENT SHALL BE MADE FOR TEMPORARY ROADWAY MATERIAL (TRM) USED TO PROTECT EDGE DROP-OFFS, UNLESS THE MATERIAL IS EVENTUALLY UTILIZED AS PART OF A PERMANENT ROADWAY AT WHICH TIME THE MATERIAL WOULD BE PAID FOR UNDER THE RESPECTIVE CONTRACT MATERIAL ITEM. CONSTRUCTION OF A PLANNED RUNAROUND OR DETOUR WOULD BE ELIGIBLE FOR PAYMENT AS SPECIFIED IN THE CONTRACT.

4. THIS PROJECT IS CONSIDERED A SIGNIFICANT PROJECT AS DEFINED BY DELDOT'S WORK ZONE MOBILITY PROCEDURES AND GUIDELINES. A TYPE B TRANSPORTATION MANAGEMENT PLAN (TMP) HAS BEEN PREPARED AND IS AVAILABLE FOR VIEWING BY CONTACTING THE DEPARTMENT'S SAFETY PROGRAMS MANAGER AT (302)659-4060. ALL MONITORING REQUIREMENTS OF THE TMP SHALL BE CONDUCTED BY DELDOT FORCES UNLESS OTHERWISE DIRECTED BY THE ENGINEER. MODIFICATIONS TO THE TMP SHALL BE COMPLETED BY THE CONTRACTOR IF CHANGES TO THE TIME RESTRICTIONS OR THE TRAFFIC CONTROL PLAN ARE DESIRED. THE MODIFIED TMP SHALL BE PREPARED BY A PROFESSIONAL ENGINEER, REGISTERED IN THE STATE OF DELAWARE.

5. A TYPE II TRUCK MOUNTED ATTENUATOR (TMA) SHALL BE REQUIRED ON THIS PROJECT DURING THE FOLLOWING OPERATIONS: TEMPORARY/PERMANENT PAVEMENT MARKINGS, ROADSIDE SPRAYING, PATCHING, MILLING, SWEEPING, TEMPORARY TRAFFIC BARRIER PLACEMENT OR AS DIRECTED BY THE ENGINEER. THE ROLL AHEAD DISTANCE SHALL BE AS PER THE MANUFACTURER'S RECOMMENDATIONS. THE TMA SHALL CONFORM TO THE REQUIREMENTS OF SECTION 6F.82 OF THE DELAWARE MUTCD.

6. COVER OVERHEAD SIGNS AS NECESSARY. PAYMENT SHALL BE INCIDENTAL TO 763500 - MAINTENANCE OF TRAFFIC. THE COVERING MATERIAL AND THE MANNER OF SECURING THE MATERIAL TO THE SIGN PANEL(S), SHALL MEET WITH THE APPROVAL OF THE ENGINEER. THE ENGINEER WILL INDICATE TO THE CONTRACTOR WHICH SIGNS, IF ANY, MUST BE COVERED, AND WHEN TO REMOVE THE COVERS. SIGN COVERS SHALL BE 10 OUNCE (280g) COTTON DUCK CONFORMING TO ASTM D-320, ARMY DUCK, AND DYED TO A DARK GREEN APPROXIMATING THE GREEN FOR SIGN BACKGROUNDS.

7. THE CONTRACTOR SHALL ATTACH PLASTIC DRUMS TO THE OPEN GRID STEEL DECK. THE CONTRACTOR SHALL SUBMIT DETAILS TO THE ENGINEER FOR APPROVAL.

8. THE CONTRACTOR SHALL CONTACT MICHAEL ELLER, THE CHIEF OF SCHEDULING FOR DART FIRST STATE, 14 DAYS PRIOR TO THE START OF CONSTRUCTION OR PRIOR TO ANY ROAD/BRIDGE CLOSURE AT 302-576-6061.

9. THE CONTRACTOR MAY WORK SIMULTANEOUSLY ON BR 1-687 AND BR 1-688. SIMULTANEOUS WORK ON BR 1-693 WHICH REQUIRES TRAFFIC LANE CLOSURES WILL NOT BE ALLOWED.

10. THE RIVERWALK LOCATED UNDER SPAN 1-N OF BR-687 MUST REMAIN OPEN AT ALL TIMES. THE CONTRACTOR SHALL PROVIDE APPROPRIATE PEDESTRIAN PROTECTION IN COMPLIANCE WITH AMERICANS WITH DISABILITIES ACT STANDARDS. PAYMENT FOR THIS PEDESTRIAN PROTECTION IS INCIDENTAL TO ITEM 602612 - ACCESS AND CONTAINMENT FOR BRIDGE REPAIRS.

11. CONTRACTOR SHALL PLACE CONSTRUCTION SAFETY FENCE AT THE BASE OF THE STAIRWAY TO BR 1-687 DURING PHASE 1 CONSTRUCTION. PAYMENT FOR THIS WORK SHALL BE INCIDENTAL TO ITEM 763500 - MAINTENANCE OF TRAFFIC

| CONTRACT QUANTITIES |        |   |              |            |          |       |
|---------------------|--------|---|--------------|------------|----------|-------|
| ITEM                | U.O.M. | DESCRIPTION   | BR 1-687     | BR 1-693   | BR 1-688 | TOTAL |
| 201000              | LS     | CLEARING AND GRUBBING   | LS           | LS         | LS       | 1     |
| 202000              | CY     | EXCAVATION AND EMBANKMENT                                     |              | 36         |          | 36    |
| 211000              | LS     | REMOVAL OF STRUCTURES AND OBSTRUCTIONS                        | LS           |            |          | 1     |
| 251000              | LF     | SILT FENCE  |              | 150        |          | 150   |
| 302007              | CY     | GRADED AGGREGATE BASE COURSE, TYPE B                          | 3            | 43         |          | 46    |
| 601535              | SF     | TIMBER SIDEWALK   | 2985         |            |          | 2985  |
| 602013              | CY     | PORTLAND CEMENT CONCRETE MASONRY, SUPERSTRUCTURE, CLASS D     | 41           | 2          |          | 43    |
| 602017              | CY     | PORTLAND CEMENT CONCRETE MASONRY, PARAPET, CLASS A            |              | 14         |          | 14    |
| 602518              | SF     | WATER BASED ACRYLIC CONCRETE SEALER                           | 600          | 9306       |          | 9906  |
| 602546              | SF     | WATERPROOFING P.C.C. MASONRY                                  | 18314        | 22591      |          | 40905 |
| 602572              | LB     | REPAIRING EXISTING P.C.C. STRUCTURES                          | 7925         | 500        |          | 8425  |
| 602575              | SF     | DECK REPAIR, 1" TO 3" DEPTH                                   | 377          | 160        |          | 537   |
| 602576              | SF     | DECK REPAIR, 3" TO < FULL DEPTH                               | 92           | 40         |          | 132   |
| 602577              | SF     | DECK REPAIR, FULL DEPTH                                       | 10           | 10         |          | 20    |
| 602579              | EACH   | DRILLING HOLES AND INSTALLING DOWELS                          | 50           | 772        |          | 822   |
| 602580              | CY     | PARTIAL REMOVAL OF P.C.C. MASONRY                             | 41           | 16         |          | 57    |
| 602586              | CF     | REHABILITATION OF CONCRETE STRUCTURE                          | 67           | 30         |          | 97    |
| 602611              | LF     | REPAIR OF CONCRETE STRUCTURES BY EPOXY INJECTION              | 100          | 315        |          | 415   |
| 602612              | LS     | ACCESS AND CONTAINMENT FOR BRIDGE REPAIRS                     | LS           | LS         |          | 1     |
| 602626              | LF     | ROUT AND SEAL CRACKS  | 100          | 315        |          | 415   |
| 602629              | LF     | CRACK SEALING BRIDGE DECKS, APPROACH SLABS, SIDEWALK, ETC.    | 456          | 2280       |          | 2736  |
| 602646              | SF     | SILICONE ACRYLIC CONCRETE SEALER                              | 26994        | 20635      |          | 47629 |
| 603000              | LB     | BAR REINFORCEMENT   | 70           |            |          | 70    |
| 604000              | LB     | BAR REINFORCEMENT, EPOXY COATED                               | 7477         | 2304       |          | 9781  |
| 605533              | LS     | CLEANING EXISTING STEEL STRUCTURES, HAZARDOUS BASE, (L.S.)    | LS (20,000)* | LS (4800)* |          | 1     |
| 605582              | EACH   | CLEANING BRIDGE SCUPPER                                       | 1            | 5          |          | 6     |
| 605585              | LS     | STEEL STRUCTURE REPAIR  | LS           | LS         | LS       | 1     |
| 605590              | LS     | BASCULE MACHINERY REPLACEMENT                                 | LS           | LS         |          | 1     |
| 605591              | SF     | STEEL OPEN GRID BRIDGE DECK                                   |              | 177        |          | 177   |
| 605592              | LF     | WELDING REPAIRS   |              | 100        |          | 100   |
| 605619              | LS     | MOISTURE CURED URETHANE PAINT SYSTEM (OVERCOATING), L.S.      | LS (20,000)* | LS (4800)* |          | 1     |
| 605636              | EACH   | CLEAN AND LUBRICATE BRIDGE BEARINGS                           | 90           | 36         |          | 126   |
| 605641              | LF     | JOINT REPAIR (COMPRESSION SEAL), 1"                           |              | 142        |          | 142   |
| 605658              | LF     | STRIP SEAL EXPANSION JOINT, 2"                                | 264          |            |          | 264   |
| 605676              | LF     | INFLATABLE EXPANSION JOINT SEAL, 3"                           |              | 143        |          | 143   |
| 605692              | LF     | SILICONE JOINT SEAL   | 113          | 414        |          | 527   |
| 605730              | LF     | PREFABRICATED EXPANSION JOINT SYSTEM, 1"                      | 200          |            |          | 200   |
| 606501              | LF     | METAL BRIDGE RAILING  | 22           |            |          | 22    |
| 606509              | LF     | REPAIRING METAL BRIDGE RAILING, ALUMINUM                      | 921          | 1137       |          | 2058  |
| 701010              | LF     | PORTLAND CEMENT CONCRETE CURB, TYPE 1                         | 40           |            |          | 40    |
| 701501              | LF     | RESET EXISTING STONE CURB                                     | 20           |            |          | 20    |
| 701508              | LF     | PORTLAND CEMENT CONCRETE MONOLITHIC MEDIAN CURB               |              | 51         |          | 51    |
| 705001              | SF     | P.C.C. SIDEWALK, 4"   | 192          | 340        |          | 532   |
| 705505              | SF     | RESET STONE/BRICK SIDEWALK AND/OR STONE/BRICK ROADWAY         | 160          |            |          | 160   |
| 712005              | SY     | RIPRAP, R-4   |              | 4          |          | 4     |
| 713002              | SY     | GEOTEXTILES, SEPARATION                                       |              | 87         |          | 87    |
| 715001              | LF     | PERFORATED PIPE UNDERDRAINS, 6"                               |              | 31         |          | 31    |
| 720526              | LF     | PORTABLE P.C.C. STRUCTURE-MOUNTED SAFETY BARRIER              | 200          |            |          | 200   |
| 720532              | EACH   | INSTALL PORTABLE IMPACT ATTENUATOR                            | 2            |            |          | 2     |
| 720534              | EACH   | FURNISH PORTABLE IMPACT ATTENUATOR                            | 3            |            |          | 3     |
| 720539              | EACH   | RELOCATE PORTABLE IMPACT ATTENUATOR                           | 2            |            |          | 2     |
| 720551              | LF     | RELOCATING PORTABLE P.C.C. STRUCTURE MOUNTED SAFETY BARRIER   | 200          |            |          | 200   |
| 732002              | SY     | TOPSOIL, 6" DEPTH   |              | 271        |          | 271   |
| 734013              | SY     | PERMANENT GRASS SEEDING, DRY GROUND                           |              | 271        |          | 271   |
| 743003              | EADY   | ARROWPANELS, TYPE C   | 600          | 380        | 120      | 1100  |
| 743006              | EADY   | PLASTIC DRUMS   | 20010        | 13580      | 1200     | 34790 |
| 743007              | HOURL  | TRAFFIC OFFICERS  | 350          | 280        | 70       | 700   |
| 743050              | HOURL  | FLAGGER, NEW CASTLE COUNTY, STATE                             | 3000         | 2500       | 600      | 6100  |
| 743062              | HOURL  | FLAGGER, NEW CASTLE COUNTY, STATE, OVERTIME                   | 450          | 375        | 90       | 915   |
| 743504              | EACH   | WARNING SIGNS   | 40           | 52         |          | 92    |
| 743507              | LFDY   | TEMPORARY BARRICADE, TYPE III                                 | 17400        | 2700       |          | 20100 |
| 743009              | EADY   | FURNISH AND MAINTAIN TRUCK MOUNTED ATTENUATOR, TYPE I         | 60           | 115        | 60       | 235   |
| 743525              | EADY   | TEMPORARY WARNING SIGNS                                       | 420          | 805        | 420      | 1645  |
| 746662              | LS     | REPAIR BRIDGE ELECTRICAL SYSTEM                               | LS           | LS         |          | 1     |
| 748015              | SF     | PERM. PAVEMENT STRIPING, SYMBOL/LEGEND ALKYD-THERMOPLASTIC    | 62           | 107        | 66       | 235   |
| 748019              | LF     | TEMPORARY MARKINGS, PAINT, 4"                                 | 260          |            |          | 260   |
| 748517              | LF     | BLACKOUT TAPE, 4"   | 415          |            |          | 415   |
| 748525              | LF     | TEMPORARY MARKINGS, TAPE, 4"                                  | 4345         | 5635       |          | 9980  |
| 748527              | SF     | TEMPORARY MARKINGS, TAPE, WORDS/SYMBOLS                       |              | 1110       |          | 1110  |
| 748530              | SF     | REMOVAL OF PAVEMENT STRIPING                                  | 75           |            |          | 75    |
| 749687              | EACH   | INSTALLATION OR REMOVAL OF TRAFFIC SIGN(S) ON SINGLESIGN POST | 2            | 10         | 4        | 16    |
| 758000              | SY     | REMOVAL OF EXISTING P.C.C. PAVEMENT, CURB, SIDEWALK, ETC.     | 22           | 65         |          | 87    |
| 762003              | LF     | SAW CUTTING, CONCRETE, VARIABLE DEPTH                         | 400          | 30         |          | 430   |
| 763000              | LS     | INITIAL EXPENSE   | LS           | LS         | LS       | 1     |
| 763500              | LS     | MAINTENANCE OF TRAFFIC  | LS           | LS         | LS       | 1     |
| 763501              | LS     | CONSTRUCTION ENGINEERING                                      | LS           | LS         | LS       | 1     |
| 763508              | LS     | PROJECT CONTROL SYSTEM DEVELOPMENT PLAN                       | LS           | LS         | LS       | 1     |
| 763509              | EAMO   | CPM SCHEDULE UPDATES AND/OR REVISED UPDATES                   | 11           | 12         | 2        | 25    |
| 763522              | LS     | COAST GUARD SPECIFIC CONDITIONS                               | LS           | LS         | LS       | 1     |
| 763593              | LS     | MODIFICATIONS TO TRAFFIC BARRIER GATE                         | LS           | LS         | LS       | 1     |
| 763602              | LS     | BIRD CONTROL  |              | LS         |          | 1     |
| 763623              | LS     | NETTING MIGRATORY BIRD EXCLUSION                              | LS           | LS         |          | 1     |

\* ESTIMATED AREA (SF)



| ADDENDUMS / REVISIONS |               |
|-----------------------|---------------|
| Δ                     | REVISED NOTES |
|                       |               |
|                       |               |

NOT TO SCALE

BR 1-687,1-688,1-693; SOUTH WALNUT STREET, SOUTH MARKET STREET AND FOURTH STREET OVER CHRISTINA RIVER

|            |                 |
|------------|-----------------|
| CONTRACT   | BRIDGE NO.      |
| T201007405 |                 |
| COUNTY     | DESIGNED BY: TM |
| NEW CASTLE | CHECKED BY: MAA |

NOTES

|             |     |
|-------------|-----|
| SHEET NO.   | 4   |
| TOTAL SHTS. | 111 |

**BRIDGE 1-687 NOTES**

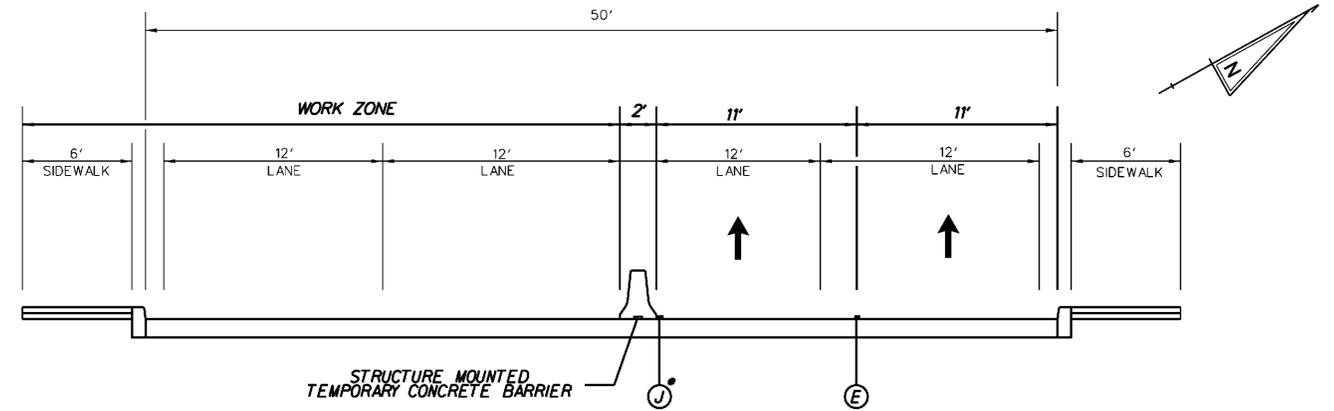
1. INSTALL ACCESS AND CONTAINMENT SYSTEM TO PREVENT DEBRIS FROM FALLING ONTO PEDESTRIAN FACILITIES, ADJACENT PARKING AREAS, BUSINESS PROPERTIES, & CHRISTINA RIVER CHANNEL DURING REPAIR ACTIVITIES. ACCESS AND CONTAINMENT SYSTEM MUST BE APPROVED BY DELDOT PRIOR TO COMMENCEMENT OF WORK. PAYMENT SHALL BE INCIDENTAL TO ITEM 602612 (ACCESS AND CONTAINMENT FOR BRIDGE REPAIRS). DISTURBANCE TO THE CHANNEL IS NOT ALLOWED DURING CONSTRUCTION. EQUIPMENT AND MATERIALS SHALL NOT BE PLACED WITHIN THE CHANNEL LIMITS. TEMPORARY SUPPORTS, ACCESS PLATFORMS AND/OR RIGGING MUST BE SUPPORTED FROM THE BRIDGE DECK.
2. REPAIR SPALLS AND DELAMINATIONS ON BRIDGE DECK. PERFORM SOUNDING FOR CONCRETE DELAMINATION WITH DELDOT INSPECTOR PRESENT. SOUNDING IS INCIDENTAL TO THE APPROPRIATE SPALL REPAIR ITEM. REMOVE AND REPLACE DELAMINATED OR DETERIORATED CONCRETE. PAYMENT SHALL BE AS DESCRIBED IN THE PROJECT NOTES.
3. SEAL CRACKS ON BRIDGE DECK. PAYMENT SHALL BE UNDER ITEMS 602629. ALLOW TO DRY, AND THEN APPLY SILANE BASED SEALANT TO ENTIRE BRIDGE DECK. SILANE BASED SEALANT SHALL BE PAID UNDER ITEM 602546.
4. REPLACE THE EXPANSION JOINTS AS SHOWN IN THE EXPANSION JOINT REPLACEMENT DETAILS PROVIDED. REPAIRS ARE REQUIRED FOR THE FULL DECK WIDTH AT PIERS 2N, 2S, & 3S. PAYMENT IS UNDER ITEMS 602013, 604000 & 605730. REMOVAL OF EXISTING DECK PORTLAND CEMENT CONCRETE MATERIAL IS PAID UNDER ITEM 602580. REMOVAL OF STEEL REINFORCEMENT, CLEANING AND EPOXY COATING OF EXISTING STEEL REINFORCEMENT IS INCIDENTAL TO 602580. REMOVAL OF EXISTING JOINT MATERIALS INCLUDING STRIP SEAL, STEEL EXTRUSIONS AND ANCHORAGE IS INCIDENTAL TO ITEM 602580. SAWCUTTING IS PAID UNDER ITEM 762003. REMOVE AND STORE THE EXISTING STEEL BARRIER AS REQUIRED TO PERFORM JOINT REMOVAL. CONTRACTOR IS TO AVOID DAMAGE TO EXISTING STEEL BARRIER DURING REMOVAL. DAMAGED STEEL BARRIER WILL BE REPLACED IN KIND AT NO ADDITIONAL COST TO THE DEPARTMENT. REMOVAL AND STORAGE OF STEEL BARRIER IS INCIDENTAL TO ITEM 602580. UPON COMPLETION OF THE JOINT REPLACEMENT, THE REMOVED STEEL BARRIER WILL BE REINSTALLED PER THE DETAILS PROVIDED. THE STEEL BARRIER ANCHOR BOLT INSTALLATION IS PAID UNDER ITEMS 603000 AND 602579. ALL OTHER WORK ASSOCIATED WITH REINSTALLING THE STEEL BARRIER IS INCIDENTAL TO ITEM 605730.
5. REMOVE AND REPLACE THE DIAPHRAGMS AT PIER 2N AS INDICATED IN THE PLAN DETAILS. PROVIDE ADEQUATE BRACING TO ASSURE STABILITY OF THE EXISTING GIRDERS DURING REMOVAL AND ERECTION OPERATIONS. STEEL MEMBERS SHALL CONFORM TO AASHTO M270 GRADE 36 OR GRADE 50. PAYMENT FOR FABRICATION AND ERECTION OF NEW STEEL SHALL BE UNDER ITEM 605585. REMOVAL OF EXISTING STEEL SHALL BE PAID UNDER ITEM 211000.
6. APPLY WATER BASED ACRYLIC CONCRETE SEALANT TO THE SIDEWALK FACE NORTH WINGWALL BARRIERS. PAYMENT SHALL BE UNDER ITEM 602518.
7. REPLACE ALL EXISTING NEOPRENE STRIP SEALS AT THE SOUTH AND NORTH ABUTMENT AND PIER IS & IN. PAYMENT SHALL BE UNDER ITEM 605658. BLAST CLEAN THE EXISTING STEEL JOINT ARMOR TO REMOVE ALL RUST, LOOSE PAINT, DIRT, OIL, DEBRIS & DELAMINATION. ALL EXPOSED JOINT ARMOR SURFACES SHALL BE FIELD PAINTED IN ACCORDANCE WITH SECTION 605 OF THE STANDARD SPECIFICATIONS. PAYMENT FOR CLEANING & PAINTING SHALL BE UNDER ITEMS ~~605629~~ AND ~~605629~~ 605619 AND 605533.
8. CLEAN, PAINT AND APPLY GREASE TO BRIDGE BEARINGS. FOR BEARINGS WITH VISIBLE CORROSION, REMOVE EXISTING PAINT, AND PREPARE SURFACE PRIOR TO APPLICATION OF NEW PAINT COATINGS. PAYMENT SHALL BE UNDER ITEMS ~~605629~~ 605533 AND ~~605629~~ 605619. APPLY GREASE TO NEWLY PAINTED BEARINGS. SPECIFICATIONS FOR GREASE SHALL COMPLY WITH PROJECT NOTES FOR THIS CONTRACT. APPLICATION OF GREASE FOR REPAINTED BEARINGS SHALL BE INCIDENTAL TO ITEM ~~605629~~ 605619. FOR REMAINING BEARINGS NOT TO BE RE-COATED WITH PAINT, APPLY GREASE TO BEARINGS. PAYMENT SHALL BE INCIDENTAL TO ITEM 605636. PRIOR TO APPLICATION OF GREASE, PREPARE BEARING SURFACE FOR APPLICATION AS REQUIRED FOR PROPER ADHERENCE OF THE GREASE, AND AS APPROVED BY THE DELDOT INSPECTOR. USE LOW PRESSURE WATER BLASTING TO REMOVE EXISTING DEBRIS. HAND WIPE TO REMOVE EXISTING DEBRIS IN LOCATIONS APPROVED BY THE DELDOT INSPECTOR. AVOID DAMAGE TO EXISTING PAINT COATING BY USING LOW PRESSURE WATER BLASTING SUFFICIENT TO REMOVE EXISTING DEBRIS AND CONTAMINANTS. GREASE SHALL BE APPLIED TO ALL BEARINGS ON BRIDGE. ALL DEBRIS ON PIER CAPS AND ABUTMENT BEARING SEATS SHALL BE REMOVED. REMOVAL OF DEBRIS IS INCIDENTAL TO ITEM ~~605629~~ 605533.
9. REPAIR SPALLS AND DELAMINATIONS ON UNDERSIDE (BOTTOM) OF BRIDGE DECK. PERFORM SOUNDING FOR CONCRETE DELAMINATION WITH DELDOT INSPECTOR PRESENT. SOUNDING IS INCIDENTAL TO THE APPROPRIATE SPALL REPAIR ITEM. REMOVE AND REPLACE DELAMINATED OR DETERIORATED CONCRETE. PAYMENT SHALL BE AS DESCRIBED IN PROJECT NOTES.
10. FULLY CLEAN AND PAINT ALL STEEL STRUCTURAL COMPONENTS OF THE APPROACH SPAN FASCIA GIRDERS. FULLY CLEAN AND PAINT ALL STEEL STRUCTURAL COMPONENTS OF THE APPROACH SPAN INTERIOR GIRDERS WITHIN 6' ON EITHER SIDE OF EACH DECK EXPANSION JOINT AND WITHIN 6' OF THE ENDS AT EACH ABUTMENT. FULLY CLEAN AND PAINT THE EXPOSED FACE OF EACH FLOORBEAM GIRDER ON THE SPANS IS AND IN FACE OF THE BASCULE PIER. ON THE REMAINING PORTIONS OF THE INTERIOR GIRDERS AND DIAPHRAGMS PERFORM SPOT CLEANING AND PAINTING OF STEEL STRUCTURAL COMPONENTS EXHIBITING ACTIVE CORROSION. PAYMENT SHALL BE UNDER ITEMS ~~605629~~ 605533 AND ~~605629~~ 605619. LOCATIONS TO BE SPOT PAINTED SHALL BE WHERE CORROSION OR DETERIORATION OF THE EXISTING PAINT COATING IS VISIBLE, AND AS APPROVED BY THE DELDOT INSPECTOR. LOCATIONS TO BE SPOT PAINTED WILL BE REVIEWED WITH THE DELDOT INSPECTOR PRIOR TO COMMENCEMENT OF CLEANING AND PAINTING OPERATIONS. COLOR OF PAINT SHALL MATCH EXISTING. PAINT SAMPLES SHALL BE PROVIDED BY THE CONTRACTOR TO THE ENGINEER FOR APPROVAL PRIOR TO COMMENCING PAINTING OPERATIONS.
11. REPLACE DAMAGED BOTTOM RAIL OF THE STEEL BARRIER. LOCATIONS SHALL BE AS INDICATED IN THE DECK PLANS. STRUCTURAL STEEL TUBING SHALL CONFORM TO ASTM A 500, GRADE B OR ASTM A 501. PAYMENT SHALL BE UNDER ITEM 605585. REMOVAL OF EXISTING BARRIER RAIL SHALL BE PAID UNDER ITEM 211000. CLEAN AND PAINT THE ENTIRE STEEL BRIDGE BARRIER INCLUDING ALL RAILING, POSTS, BASE PLATES AND CONNECTION HARDWARE. CLEAN AND PAINT THE PORTIONS OF THE BASCULE GIRDERS ABOVE THE RIDING SURFACE INCLUDING THE STEEL CURB. PAYMENT FOR CLEANING AND PAINTING SHALL BE UNDER ITEMS ~~605629~~ 605533 AND ~~605629~~ 605519.
12. REPAIR DAMAGED PORTIONS OF STEEL PEDESTRIAN RAILINGS AT THE SOUTH APPROACH PER THE DETAILS PROVIDED. PAYMENT SHALL BE UNDER ITEM 606501. REMOVAL OF EXISTING STEEL SHALL BE PAID UNDER ITEM 211000.
13. REATTACH ALL LOOSE ALUMINUM PEDESTRIAN RAILINGS. REPLACE ALL MISSING BOLTS OR ANCHOR BOLTS TO ENSURE PROPER ATTACHMENT OF RAILING TO POST AND/OR POST BASEPLATE TO SIDEWALK. PAYMENT SHALL BE INCIDENTAL TO ITEM 606509.
14. REPAIR SPALLS AND DELAMINATIONS IN CONCRETE ABUTMENTS, BACKWALLS AND WINGWALLS. PERFORM SOUNDING FOR DELAMINATION AROUND CRACKS, SPALLS AND DETERIORATION. SOUNDING IS INCIDENTAL TO THE APPROPRIATE SPALL REPAIR ITEM. REMOVE AND REPLACE DELAMINATED OR DETERIORATED CONCRETE. PAYMENT SHALL BE AS DESCRIBED IN THE PROJECT NOTES.
15. REPAIR CRACKS IN CONCRETE ABUTMENTS, BACKWALLS AND WINGWALLS. CRACK REPAIR SHALL BE PERFORMED UNDER PAY ITEM 602626 OR 602611, AS APPROVED BY DELDOT INSPECTOR.
16. APPLY SILICONE ACRYLIC CONCRETE SEALANT TO ALL EXPOSED VERTICAL AND HORIZONTAL SURFACES OF CONCRETE ABUTMENTS, BACKWALLS AND WINGWALLS. SEE PROJECT NOTES FOR ADDITIONAL CLARIFICATION OF SEALANT COATING REQUIREMENTS. PAYMENT SHALL BE INCIDENTAL TO ITEM 602646. ENSURE PROPER SURFACE PREPARATION PRIOR TO APPLICATION OF SEALANT, IN ACCORDANCE WITH SPECIAL PROVISION REQUIREMENTS.
17. REPAIR SPALLS AND DELAMINATIONS ON CONCRETE PIERS AND PIER CAPS. PERFORM SOUNDING FOR DELAMINATION AROUND CRACKS, SPALLS AND DETERIORATION. SOUNDING IS INCIDENTAL TO THE APPROPRIATE SPALL REPAIR ITEM. REMOVE AND REPLACE DELAMINATED OR DETERIORATED CONCRETE. PAYMENT SHALL BE AS DESCRIBED IN THE PROJECT NOTES.
18. REPAIR CRACKS ON PIERS AND PIER CAPS. CRACK REPAIR SHALL BE PERFORMED UNDER PAY ITEMS 602611 AND 602626, AS APPROVED BY DELDOT INSPECTOR.
19. APPLY SILICONE ACRYLIC CONCRETE SEALANT TO ALL EXPOSED VERTICAL AND HORIZONTAL SURFACES OF CONCRETE PIERS. SEE PROJECT NOTES FOR ADDITIONAL CLARIFICATION OF SEALANT COATING REQUIREMENTS. PAYMENT SHALL BE UNDER ITEM 602646. ENSURE PROPER SURFACE PREPARATION PRIOR TO APPLICATION OF SEALANT, IN ACCORDANCE WITH SPECIAL PROVISION REQUIREMENTS.
20. CLEAN AND FLUSH SCUPPER DRAINS ON BRIDGE DECK. PAYMENT SHALL BE UNDER ITEM 605582.
21. RESET EXISTING LOOSE CAPSTONE PER THE DETAIL PROVIDED IN PLANS. PAYMENT SHALL BE UNDER ITEM 602579.
22. REPLACE SIDEWALK AND CURB PER THE DETAILS PROVIDED. LOCATION IS AS SHOWN IN THE PLANS. PAYMENT SHALL BE UNDER ITEMS 701010, 705001 AND 758000.
23. REPLACE DETERIORATED SEAL AT DECK ACCESS PANEL WITH SILICONE JOINT SEAL. PAYMENT SHALL BE UNDER ITEM 605692.
24. REPAIR THE LIVE LOAD ANCHORAGE PER THE DETAILS PROVIDED IN THE PLANS.
25. REPAIR THE SIDEWALK STRINGER PER THE DETAILS PROVIDED IN THE PLANS.
26. REPLACE PORTIONS OF THE SIDEWALK PER THE DETAILS PROVIDED IN THE PLANS.
27. PERFORM MECHANICAL REPAIRS PER THE DETAILS PROVIDED IN THE PLANS.
28. THE DIMENSIONS SHOWN ON THE PLANS ARE BASED ON THE EXISTING BRIDGE PLANS. THE EXISTING BRIDGE PLANS ARE AVAILABLE UPON REQUEST FROM THE DELAWARE DEPARTMENT OF TRANSPORTATION. THE APPLICABLE CONSTRUCTION CONTRACT NUMBERS ARE 1224-(3), 1224-(4), 24-121-01/05 AND 89-074-05. THE CONTRACTOR SHALL FIELD VERIFY THE DIMENSIONING SHOWN PRIOR TO CALCULATING QUANTITIES AND ORDERING MATERIALS. REINFORCEMENT BAR LENGTHS SHALL BE VERIFIED IN THE FIELD PRIOR TO ORDERING.

|  |                       |  |                |   |            |              |       |            |             |
|--|-----------------------|--|----------------|---|------------|--------------|-------|------------|-------------|
|  <b>DELAWARE<br/>DEPARTMENT OF TRANSPORTATION</b> | ADDENDUMS / REVISIONS |  | SCALE AS NOTED | BR 1-687, 1-688, 1-693; SOUTH WALNUT STREET, SOUTH MARKET STREET AND FOURTH STREET OVER CHRISTINA RIVER | CONTRACT   | BRIDGE NO.   | 1-687 | SITE NOTES | SHEET NO.   |
|  | △ REVISED NOTES       |  |                |   | T201007405 | DESIGNED BY: | AJF   |            | 6           |
|  |                       |  |                |   | COUNTY     | CHECKED BY:  | BSB   |            | TOTAL SHTS. |
|  |                       |  |                |   | NEW CASTLE |              |       |            | 111         |

| CONSTRUCTION PHASING LEGEND |  |
|-----------------------------|--|
|                             | WORK AREA PHASE 1                            |
|                             | STRUCTURE MOUNTED TEMPORARY CONCRETE BARRIER |
|                             | PHASING TRAFFIC FLOW ARROW                   |
|                             | WARNING SIGN                                 |
|                             | PLASTIC DRUM                                 |
|                             | ARROW PANEL                                  |
|                             | TRUCK MOUNTED ATTENUATOR                     |
|                             | BARRICADE, TYPE 3                            |
|                             | TYPE 2 ATTENUATOR                            |
|                             | GRID DECK                                    |

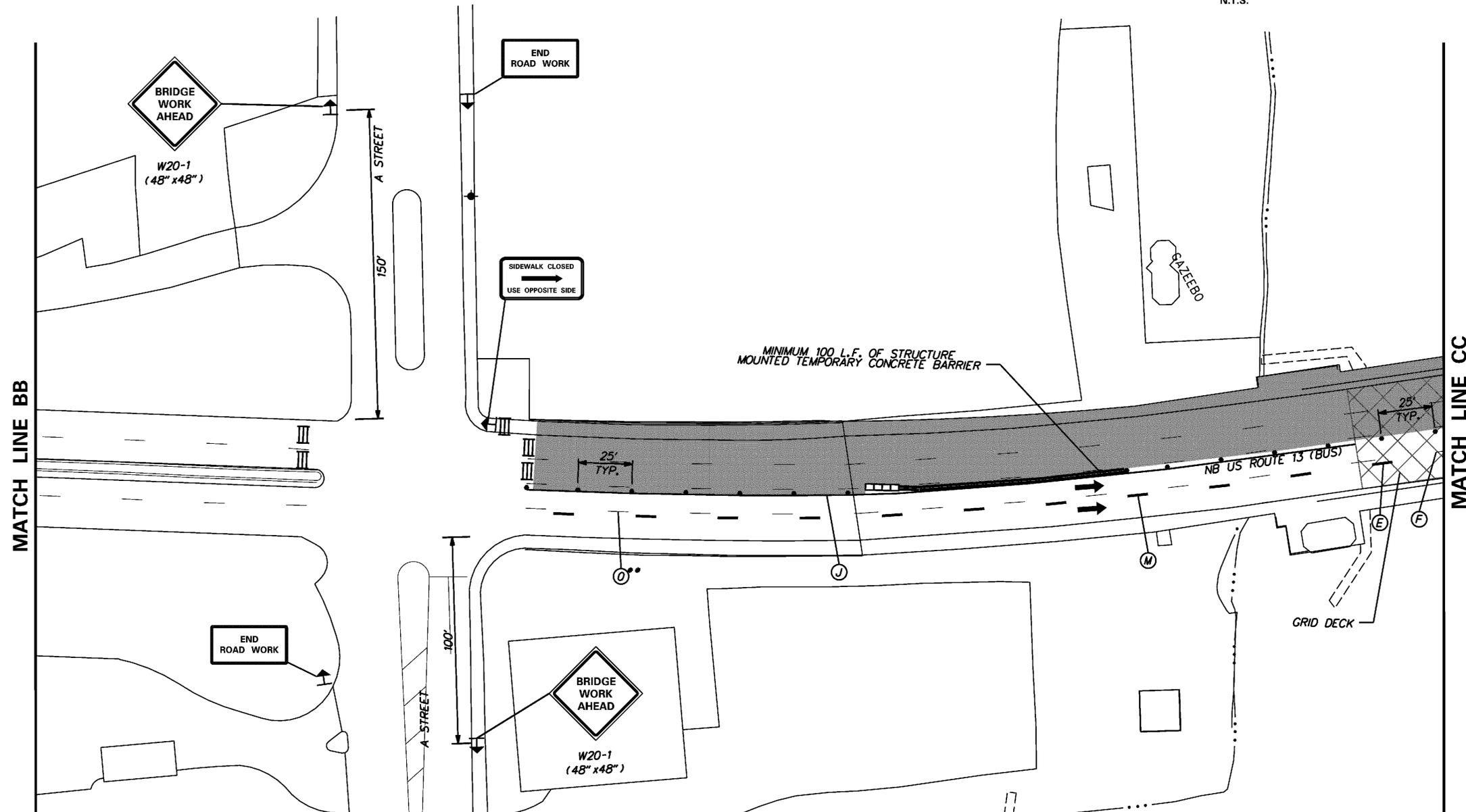
| TEMPORARY PAVEMENT MARKINGS LEGEND |   |          |
|------------------------------------|---|----------|
| SYMBOL                             | ITEM  | QUANTITY |
| (E)                                | 4" DASHED WHITE TEMPORARY PAINT PAVEMENT STRIPING, 10' LINE & 30' GAP (ITEM 748019) | 20 LF    |
| (F)                                | GREEN PAINT OVER EXISTING STRIPING, (INCIDENTAL TO ITEM 748019)                     | 20 LF    |
| (J)                                | 4" SOLID YELLOW TEMPORARY TAPE PAVEMENT STRIPING (ITEM 748525)                      | 405 LF   |
| (M)                                | 4" DASHED WHITE TEMPORARY TAPE PAVEMENT STRIPING, 10' LINE & 30' GAP (ITEM 748525)  | 100 LF   |
| (O)                                | 4" BLACKOUT TAPE (ITEM 748517)  | 40 LF    |

•• HOT MIX PAVEMENT ONLY



• TEMPORARY STRIPING NOT LOCATED ON OPEN GRID STEEL BRIDGE DECK

**TYPICAL SECTION BRIDGE 1-687**  
N.T.S.



| ADDENDUMS / REVISIONS |                     |
|-----------------------|---------------------|
|                       | REVISED PAGE NUMBER |
|                       |                     |
|                       |                     |

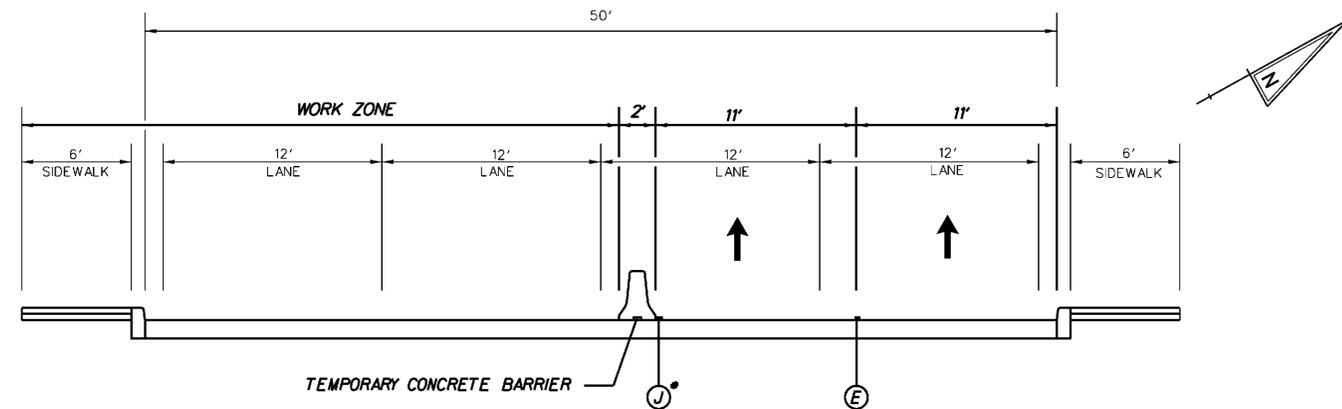


|            |                 |       |
|------------|-----------------|-------|
| CONTRACT   | BRIDGE NO.      | 1-687 |
| T201007405 | DESIGNED BY: TM |       |
| COUNTY     | CHECKED BY: MAA |       |
| NEW CASTLE |                 |       |

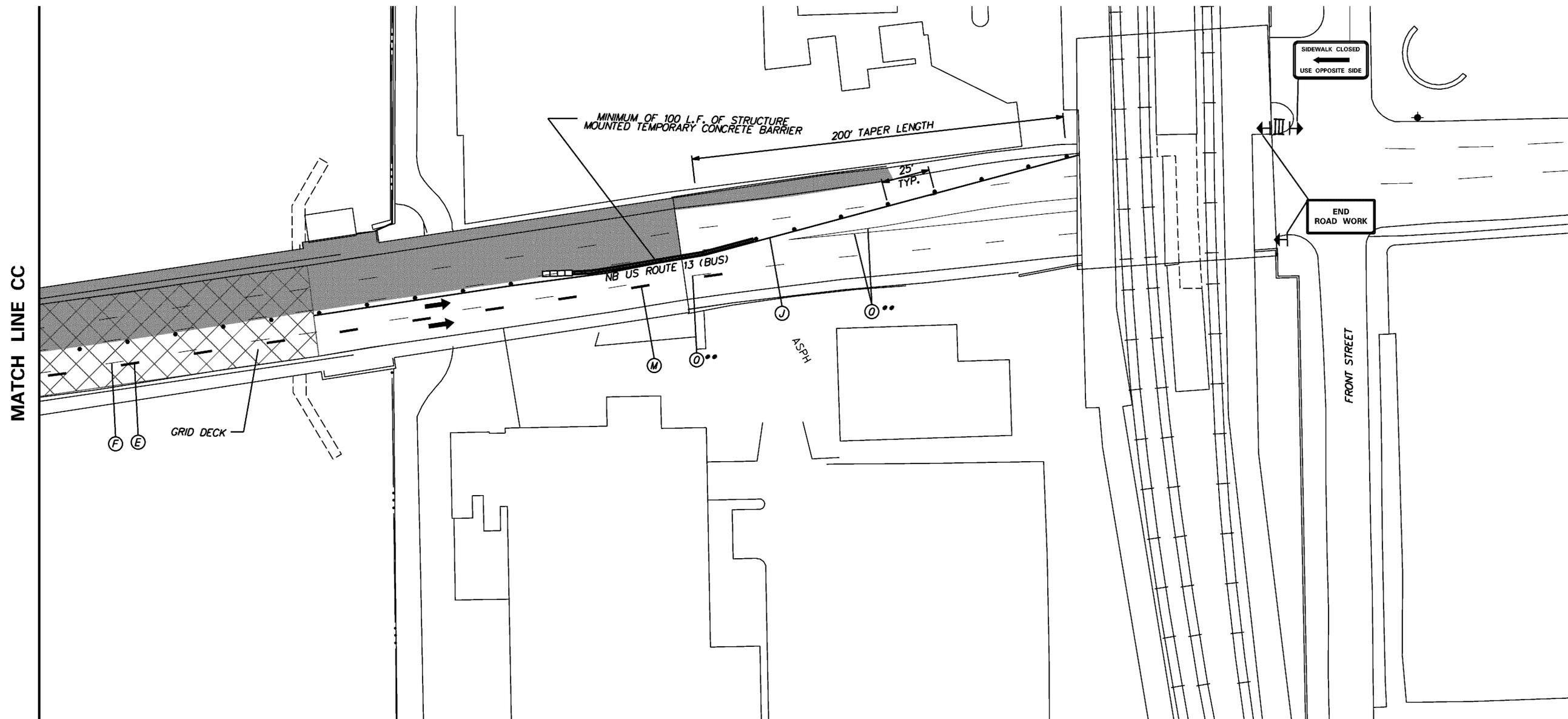
| CONSTRUCTION PHASING LEGEND |  |
|-----------------------------|--|
|                             | WORK AREA PHASE 1                            |
|                             | STRUCTURE MOUNTED TEMPORARY CONCRETE BARRIER |
|                             | PHASING TRAFFIC FLOW ARROW                   |
|                             | WARNING SIGN                                 |
|                             | PLASTIC DRUM                                 |
|                             | ARROW PANEL                                  |
|                             | TRUCK MOUNTED ATTENUATOR                     |
|                             | BARRICADE, TYPE 3                            |
|                             | TYPE 2 ATTENUATOR                            |
|                             | GRID DECK                                    |

| TEMPORARY PAVEMENT MARKINGS LEGEND |   |          |
|------------------------------------|---|----------|
| SYMBOL                             | ITEM  | QUANTITY |
| (E)                                | 4" DASHED WHITE TEMPORARY PAINT PAVEMENT STRIPING, 10' LINE & 30' GAP (ITEM 748019) | 50 LF    |
| (F)                                | GREEN PAINT OVER EXISTING STRIPING, (INCIDENTAL TO ITEM 748019)                     | 50 LF    |
| (M)                                | 4" DASHED WHITE TEMPORARY TAPE PAVEMENT STRIPING, 10' LINE & 30' GAP (ITEM 748525)  | 60 LF    |
| (O)                                | 4" BLACKOUT TAPE (ITEM 748517)  | 110 LF   |
| (J)                                | 4" SOLID YELLOW TEMPORARY TAPE PAVEMENT STRIPING (ITEM 748525)                      | 425 LF   |

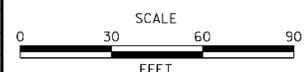
\*\* HOT MIX PAVEMENT ONLY



NOTE: TEMPORARY STRIPING NOT LOCATED ON OPEN GRID STEEL BRIDGE DECK  
**TYPICAL SECTION BRIDGE 1-687**  
 N.T.S.



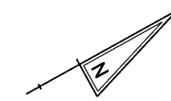
| ADDENDUMS / REVISIONS |                     |
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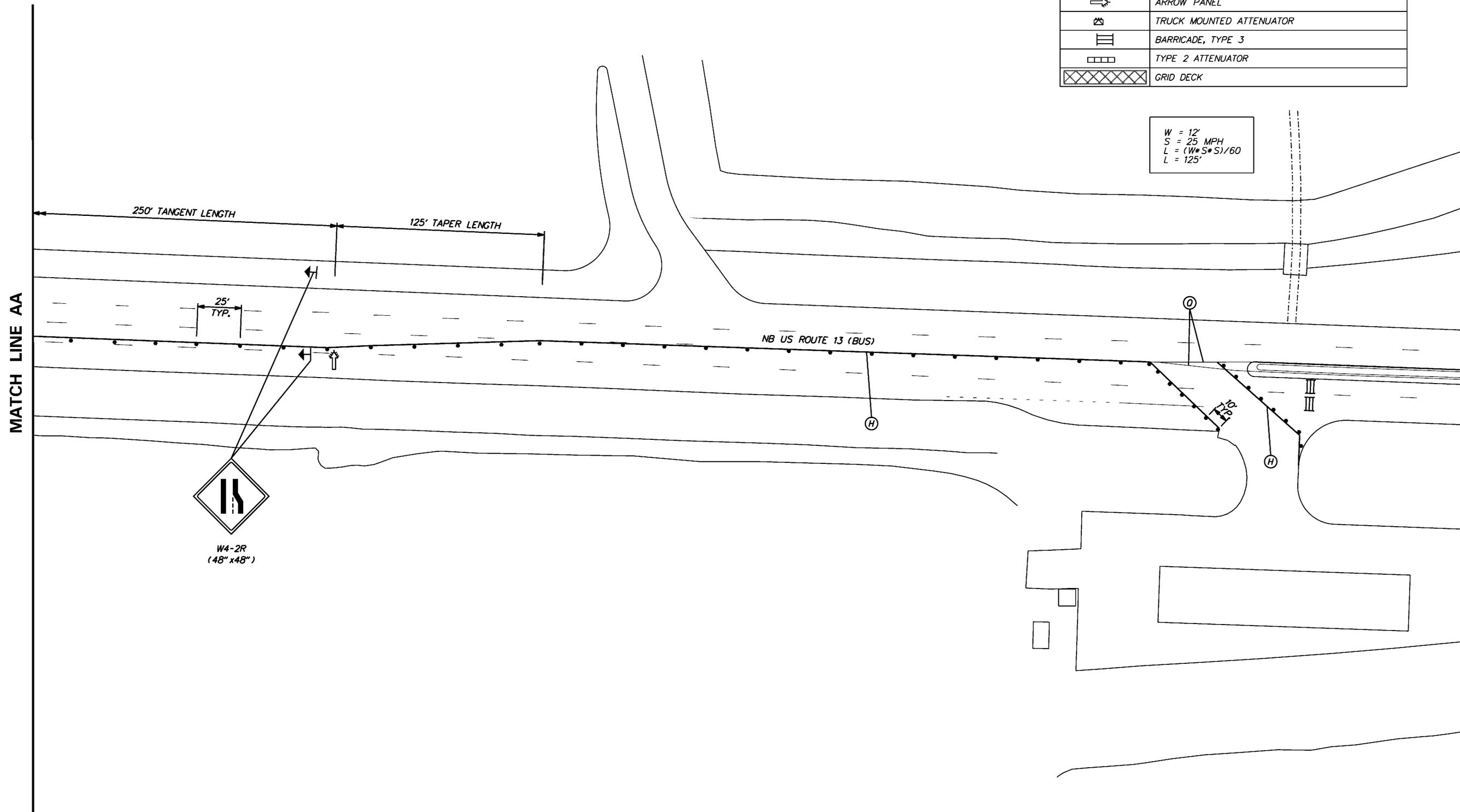
|            |              |       |
|------------|--------------|-------|
| CONTRACT   | BRIDGE NO.   | 1-687 |
| T201007405 | DESIGNED BY: | TM    |
| COUNTY     | CHECKED BY:  | MAA   |
| NEW CASTLE |              |       |

| TEMPORARY PAVEMENT MARKINGS LEGEND |   |          |
|------------------------------------|---|----------|
| SYMBOL                             | ITEM  | QUANTITY |
| (H)                                | 4" SOLID WHITE TEMPORARY TAPE PAVEMENT STRIPING (ITEM 748525) | 820 LF   |
| (O)                                | 4" BLACKOUT TAPE (ITEM 748517)                                | 85 LF    |

| CONSTRUCTION PHASING LEGEND |  |
|-----------------------------|--|
|                             | WORK AREA PHASE 2                            |
|                             | STRUCTURE MOUNTED TEMPORARY CONCRETE BARRIER |
|                             | PHASING TRAFFIC FLOW ARROW                   |
|                             | WARNING SIGN                                 |
|                             | PLASTIC DRUM                                 |
|                             | ARROW PANEL                                  |
|                             | TRUCK MOUNTED ATTENUATOR                     |
|                             | BARRICADE, TYPE 3                            |
|                             | TYPE 2 ATTENUATOR                            |
|                             | GRID DECK                                    |



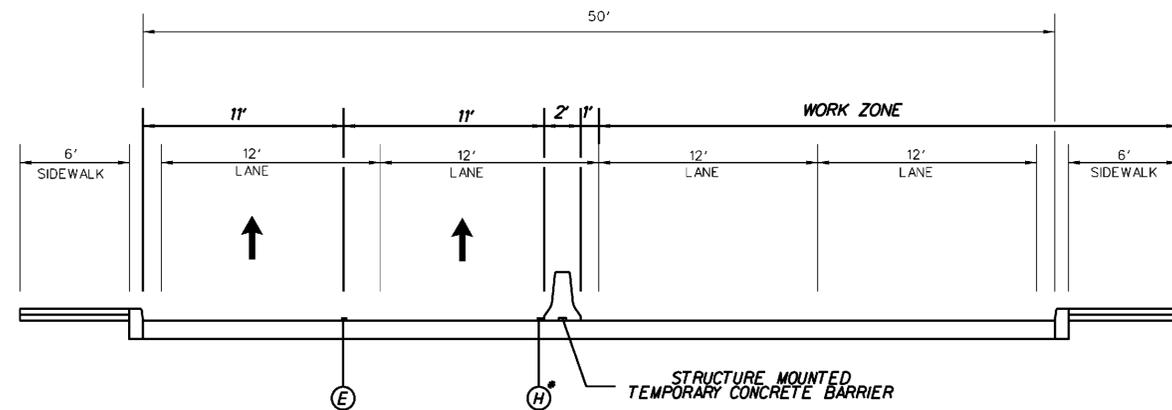
$W = 12'$   
 $S = 25 \text{ MPH}$   
 $L = (W * S * S) / 60$   
 $L = 125'$



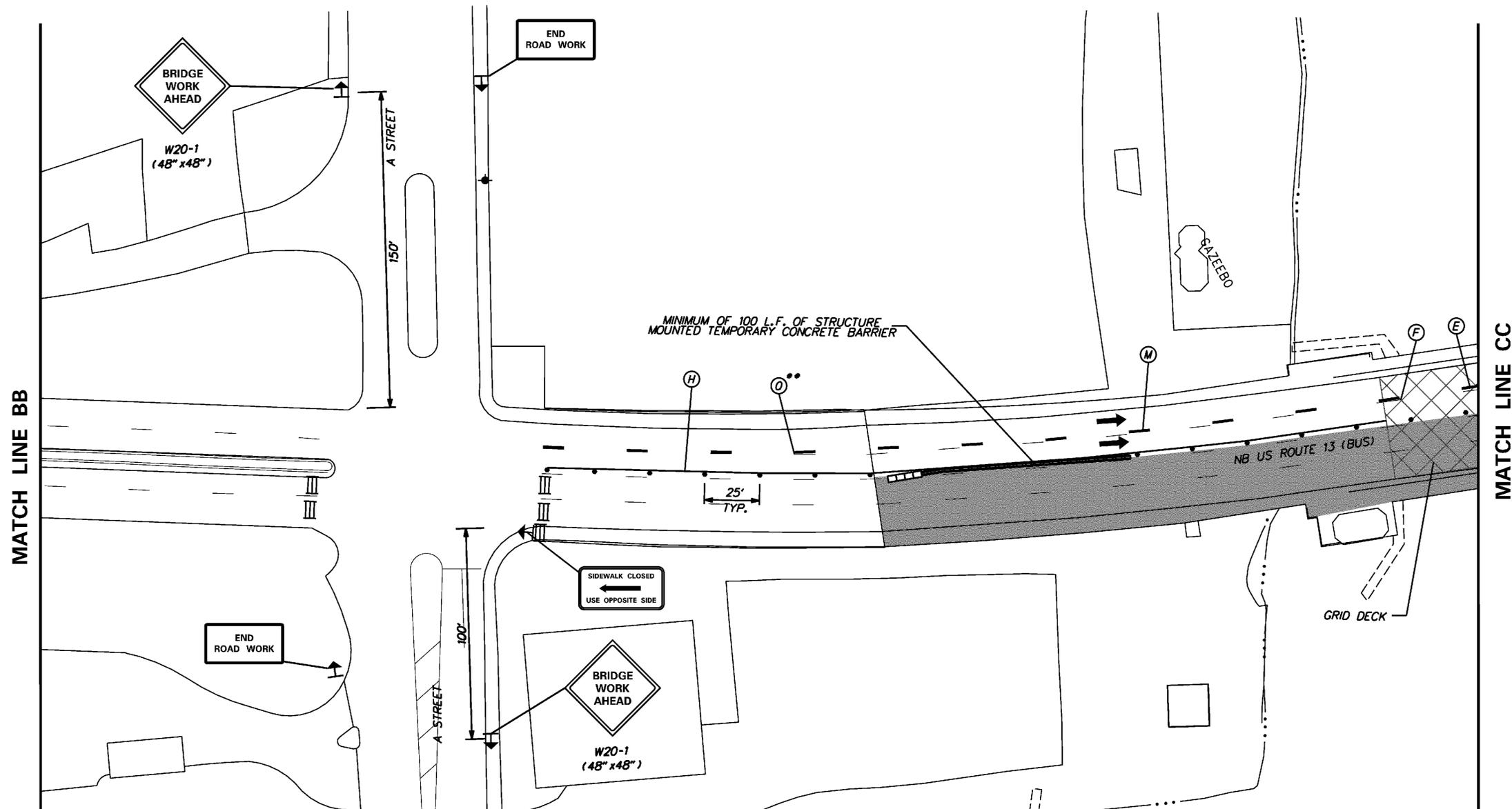
| CONSTRUCTION PHASING LEGEND |  |
|-----------------------------|--|
|                             | WORK AREA PHASE 2                            |
|                             | STRUCTURE MOUNTED TEMPORARY CONCRETE BARRIER |
|                             | PHASING TRAFFIC FLOW ARROW                   |
|                             | WARNING SIGN                                 |
|                             | PLASTIC DRUM                                 |
|                             | ARROW PANEL                                  |
|                             | TRUCK MOUNTED ATTENUATOR                     |
|                             | BARRICADE, TYPE 3                            |
|                             | TYPE 2 ATTENUATOR                            |
|                             | GRID DECK                                    |

| TEMPORARY PAVEMENT MARKINGS LEGEND |   |          |
|------------------------------------|---|----------|
| SYMBOL                             | ITEM  | QUANTITY |
| (E)                                | 4" DASHED WHITE TEMPORARY PAINT PAVEMENT STRIPING, 10' LINE & 30' GAP (ITEM 748019) | 20 LF    |
| (F)                                | 4" DASHED GREEN TEMPORARY PAINT PAVEMENT STRIPING, 10' LINE & 30' GAP (ITEM 748019) | 20 LF    |
| (H)                                | 4" SOLID WHITE TEMPORARY TAPE PAVEMENT STRIPING (ITEM 748525)                       | 405 LF   |
| (M)                                | 4" DASHED WHITE TEMPORARY TAPE PAVEMENT STRIPING, 10' LINE & 30' GAP (ITEM 748525)  | 110 LF   |
| (D)                                | 4" BLACKOUT TAPE (ITEM 748517)  | 40 LF    |

\*\* HOT MIX PAVEMENT ONLY



\* TEMPORARY STRIPING NOT LOCATED ON OPEN GRID STEEL BRIDGE DECK  
**TYPICAL SECTION BRIDGE 1-687**  
 N.T.S.



**BRIDGE 1-693 NOTES**

1. INSTALL ACCESS AND CONTAINMENT SYSTEM TO PREVENT DEBRIS FROM FALLING INTO CHRISTINA RIVER CHANNEL DURING REPAIR ACTIVITIES. ACCESS AND CONTAINMENT SYSTEM MUST BE APPROVED BY DELDOT PRIOR TO COMMENCEMENT OF WORK. PAYMENT SHALL BE INCIDENTAL TO ITEM 602612 (ACCESS AND CONTAINMENT FOR BRIDGE REPAIRS). BIDDERS SHALL ASSUME THAT ALL FACES OF ALL SUBSTRUCTURES FOR THIS BRIDGE MUST BE ACCESSED AND CONTAINED FOR SPALL, CRACK AND DELAMINATION REPAIRS. DISTURBANCE TO THE CHANNEL IS NOT ALLOWED DURING CONSTRUCTION. EQUIPMENT AND MATERIALS SHALL NOT BE PLACED WITHIN THE CHANNEL LIMITS. TEMPORARY SUPPORTS, ACCESS PLATFORMS AND/OR RIGGING MUST BE SUPPORTED FROM THE BRIDGE DECK.
2. REPAIR SPALLS ON BRIDGE DECK AND APPROACH SLABS. PERFORM SOUNDING FOR CONCRETE DELAMINATION AROUND VISIBLE SPALLS, CRACKS AND DETERIORATION, WITH DELDOT INSPECTOR PRESENT. REMOVE AND REPLACE DELAMINATED OR DETERIORATED CONCRETE. PAYMENT SHALL BE AS DESCRIBED IN THE PROJECT NOTES.
3. SEAL CRACKS ON BRIDGE DECK AND APPROACH SLABS. PAYMENT SHALL BE UNDER ITEMS 602620 AND 602629. ALLOW TO DRY, AND THEN APPLY SILANE BASED SEALANT TO ENTIRE BRIDGE DECK AND APPROACH SLABS. PAYMENT FOR SILANE BASED SEALANT SHALL BE UNDER ITEM 602546.
4. APPLY WATER BASED ACRYLIC CONCRETE SEALANT TO ALL FACES OF THE P.C.C. BARRIERS ON BRIDGE AND APPROACHES. PAYMENT SHALL BE UNDER ITEM 602518.
5. REPLACE ENTIRE EXISTING DEBONDED JOINT SEALS BETWEEN APPROACH SLABS AND BACKWALL AT THE NORTH AND SOUTH ABUTMENTS. PAYMENT SHALL BE UNDER ITEM 605692.
6. REPLACE PORTIONS OF THE EXPANSION JOINT AT THE NORTH ABUTMENT AS SHOWN IN THE EXPANSION JOINT REPLACEMENT DETAILS PROVIDED, AT THE LOCATIONS SHOWN IN THE PLANS. PAYMENT SHALL BE UNDER ITEMS 602013, 604000, AND 605001. REMOVAL OF EXISTING PORTLAND CEMENT CONCRETE MATERIAL, ARMOR STEEL AND REINFORCEMENT BARS SHALL BE UNDER ITEM 602580.
7. REMOVE ENTIRE EXISTING COMPRESSION SEALS AT THE SOUTH AND NORTH ABUTMENT AND REPLACE WITH INFLATABLE JOINT SEALS. PAYMENT SHALL BE UNDER ITEM 605676. BLAST CLEAN THE EXISTING STEEL JOINT ARMOR TO REMOVE ALL RUST, LOOSE PAINT, DIRT, OIL, DEBRIS & DELAMINATION. ALL EXPOSED JOINT ARMOR SURFACES SHALL BE FIELD PAINTED IN ACCORDANCE WITH SECTION 605 OF THE STANDARD SPECIFICATIONS. PAYMENT FOR CLEANING & PAINTING SHALL BE UNDER ITEMS 605629 AND 605620.
8. REPLACE ENTIRE EXISTING COMPRESSION SEALS AT PIERS 1S & 1N. PAYMENT SHALL BE UNDER ITEM 605570. BLAST CLEAN THE EXISTING STEEL JOINT ARMOR TO REMOVE ALL RUST, LOOSE PAINT, DIRT, OIL, DEBRIS & DELAMINATION. ALL EXPOSED JOINT ARMOR SURFACES SHALL BE FIELD PAINTED IN ACCORDANCE WITH SECTION 605 OF THE STANDARD SPECIFICATIONS. PAYMENT FOR CLEANING & PAINTING SHALL BE UNDER ITEMS 605629 AND 605620.
9. REPLACE PORTIONS OF THE BARRIERS AS SHOWN IN THE BARRIER REPLACEMENT DETAILS PROVIDED, AT THE LOCATIONS SHOWN IN THE PLANS. PAYMENT SHALL BE UNDER ITEMS 602017 & 604000. REMOVAL OF EXISTING PORTLAND CEMENT CONCRETE MATERIAL SHALL BE UNDER ITEM 602580.
10. REPAIR SPALLS ON BARRIERS ON AND OFF THE BRIDGE, PERFORM SOUNDING FOR CONCRETE DELAMINATIONS AROUND VISIBLE SPALLS, CRACKS AND DETERIORATION, WITH DELDOT INSPECTOR PRESENT. REMOVE AND REPLACE DELAMINATED OR DETERIORATED CONCRETE. PAYMENT SHALL BE AS DESCRIBED IN THE PROJECT NOTES FOR PCC MASONRY - ABUTMENTS, PIERS, WINGWALLS, ETC.
11. REATTACH ALL LOOSE ALUMINUM PEDESTRIAN RAILINGS. REPLACE ALL MISSING BOLTS OR ANCHOR BOLTS TO ENSURE PROPER ATTACHMENT OF RAILING TO POST AND/OR POST BASEPLATE TO SIDEWALK. PAYMENT SHALL BE INCIDENTAL TO ITEM 606509.
12. SEAL ALL LONGITUDINAL JOINTS BETWEEN THE APPROACH SLABS INCLUDING ANY GAP/OPENING BETWEEN THE EXISTING APPROACH SLABS AND THE MEDIAN AND/OR BARRIER. PAYMENT SHALL BE UNDER ITEM 605692.
13. REPLACE THE MEDIAN ON THE BRIDGE AS SHOWN IN THE MEDIAN REPLACEMENT DETAILS PROVIDED. PAYMENT FOR MEDIAN REPAIR ON THE BRIDGE SHALL BE UNDER ITEMS 602017 AND 604000. REMOVAL OF EXISTING PORTLAND CEMENT CONCRETE MATERIAL SHALL BE UNDER ITEM 602580. REMOVE PORTION OF THE MEDIAN OFF THE BRIDGE AT THE LOCATIONS INDICATED IN THE PLANS AND AS SHOWN IN THE PLAN DETAILS. PAYMENT FOR MEDIAN REPLACEMENT OFF THE BRIDGE SHALL BE UNDER ITEMS 701011, 705002, AND 302007. REMOVAL OF EXISTING MEDIAN AND CURB OFF THE BRIDGE SHALL BE PAID UNDER ITEM 758000. IN AREAS WHERE PROPOSED MEDIAN TYPES ARE NOT SIMILAR TO EXISTING, THE PROPOSED MEDIAN SHALL BE TRANSITIONED TO MATCH THE EXISTING MEDIAN OVER A 10 FOOT LENGTH, UNLESS OTHERWISE DIRECTED BY THE ENGINEER. PAYMENT FOR THE TRANSITION AREA SHALL BE UNDER ITEM 701011.
14. CLEAN, PAINT AND APPLY GREASE TO BRIDGE BEARINGS. FOR BEARINGS WITH VISIBLE CORROSION, REMOVE EXISTING PAINT, AND PREPARE SURFACE PRIOR TO APPLICATION OF NEW PAINT COATINGS. PAYMENT SHALL BE UNDER ITEMS 605629 AND 605620. APPLY GREASE TO NEWLY PAINTED BEARINGS. SPECIFICATIONS FOR GREASE SHALL COMPLY WITH PROJECT NOTES FOR THIS CONTRACT. APPLICATION OF GREASE FOR REPAINTED BEARINGS SHALL BE INCIDENTAL TO ITEM 605620. FOR REMAINING BEARINGS NOT TO BE RE-COATED WITH PAINT, APPLY GREASE TO BEARINGS. PAYMENT SHALL BE INCIDENTAL TO ITEM 605636. PRIOR TO APPLICATION OF GREASE, PREPARE BEARING SURFACE FOR APPLICATION AS REQUIRED FOR PROPER ADHERENCE OF THE GREASE, AND AS APPROVED BY THE DELDOT INSPECTOR. USE LOW PRESSURE WATER BLASTING TO REMOVE EXISTING DEBRIS. HAND WIPE TO REMOVE EXISTING DEBRIS IN LOCATIONS APPROVED BY THE DELDOT INSPECTOR. AVOID DAMAGE TO EXISTING PAINT COATING BY USING LOW PRESSURE WATER BLASTING SUFFICIENT TO REMOVE EXISTING DEBRIS AND CONTAMINANTS. GREASE SHALL BE APPLIED TO ALL BEARINGS ON BRIDGE. ALL DEBRIS ON PIER CAP AND ABUTMENT BEARING SEATS SHALL BE REMOVED. REMOVAL OF DEBRIS AT BEARING SEATS IS INCIDENTAL TO ITEM 605629.
15. REPAIR SPALLS ON UNDERSIDE (BOTTOM) OF BRIDGE DECK. PERFORM SOUNDING FOR CONCRETE DELAMINATION AROUND VISIBLE SPALLS, CRACKS AND DETERIORATION, WITH DELDOT INSPECTOR PRESENT. REMOVE AND REPLACE DELAMINATED OR DETERIORATED CONCRETE. PAYMENT SHALL BE AS DESCRIBED IN PROJECT NOTES.
16. FULLY CLEAN AND PAINT ALL STEEL STRUCTURAL COMPONENTS WITHIN 6' OF THE ABUTMENT BACKWALLS. ON THE REMAINING PORTIONS OF THE APPROACH SPANS (SPANS 1S, 2S, 1N & 2N), PERFORM SPOT CLEANING AND PAINTING OF STEEL STRUCTURAL COMPONENTS. PAYMENT SHALL BE UNDER ITEMS 605629 AND 605620. LOCATIONS TO BE PAINTED SHALL BE WHERE CORROSION OR DETERIORATION OF THE EXISTING PAINT COATING IS VISIBLE, AND AS APPROVED BY THE DELDOT INSPECTOR. LOCATIONS TO BE PAINTED WILL BE REVIEWED WITH THE DELDOT INSPECTOR PRIOR TO COMMENCEMENT OF CLEANING AND PAINTING OPERATIONS.
17. REATTACH ALL LOOSE ALUMINUM PEDESTRIAN RAILINGS. REPLACE ALL MISSING BOLTS OR ANCHOR BOLTS TO ENSURE PROPER ATTACHMENT OF RAILING TO POST AND/OR POST BASEPLATE TO SIDEWALK. PAYMENT SHALL BE UNDER TO ITEM 606509.
18. REPAIR SPALLS AND DELAMINATIONS IN CONCRETE ABUTMENTS, BACKWALLS AND WINGWALLS. PERFORM SOUNDING FOR DELAMINATION AROUND VISIBLE CRACKS, SPALLS AND DETERIORATION. SOUNDING IS INCIDENTAL TO THE APPROPRIATE SPALL REPAIR ITEM. REMOVE AND REPLACE DELAMINATED AND DETERIORATED CONCRETE. PAYMENT FOR CONCRETE SPALL AND DELAMINATION REPAIR SHALL BE AS DESCRIBED IN THE PROJECT NOTES FOR SPALL REPAIR.
19. REPAIR CRACKS IN CONCRETE ABUTMENTS, BACKWALLS AND WINGWALLS. CRACK REPAIR SHALL BE PERFORMED UNDER PAY ITEM 602626 OR 602611, AS APPROVED BY DELDOT INSPECTOR.
20. APPLY SILICONE ACRYLIC CONCRETE SEALANT TO ALL EXPOSED VERTICAL AND HORIZONTAL SURFACES OF CONCRETE ABUTMENTS, BACKWALLS AND WINGWALLS. SEE PROJECT NOTES FOR ADDITIONAL CLARIFICATION OF SEALANT COATING REQUIREMENTS. PAYMENT SHALL BE UNDER ITEM 602646. ENSURE PROPER SURFACE PREPARATION PRIOR TO APPLICATION OF SEALANT, IN ACCORDANCE WITH SPECIAL PROVISION REQUIREMENTS.
21. REPAIR SPALLS AND DELAMINATIONS ON CONCRETE PIERS AND PIER CAPS. PERFORM SOUNDING FOR DELAMINATION AROUND VISIBLE CRACKS, SPALLS AND DETERIORATION. SOUNDING IS INCIDENTAL TO THE APPROPRIATE SPALL REPAIR ITEM REMOVE AND REPLACE DELAMINATED OR DETERIORATED CONCRETE. PAYMENT FOR CONCRETE SPALL AND DELAMINATION REPAIR SHALL BE AS DESCRIBED IN THE PROJECT NOTES FOR SPALL REPAIR.
22. REPAIR CRACKS ON PIERS AND PIER CAPS. CRACK REPAIR SHALL BE PERFORMED UNDER PAY ITEMS 602611 AND 602626, AS APPROVED BY DELDOT INSPECTOR.
23. APPLY SILICONE ACRYLIC CONCRETE SEALANT TO ALL EXPOSED VERTICAL AND HORIZONTAL SURFACES OF CONCRETE PIERS. SEE PROJECT NOTES FOR ADDITIONAL CLARIFICATION OF SEALANT COATING REQUIREMENTS. PAYMENT SHALL BE UNDER ITEM 602646. ENSURE PROPER SURFACE PREPARATION PRIOR TO APPLICATION OF SEALANT, IN ACCORDANCE WITH SPECIAL PROVISION REQUIREMENTS.
24. CLEAN AND FLUSH SCUPPER DRAINS ON BRIDGE DECK. PAYMENT SHALL BE UNDER ITEM 605582.
25. REPLACE SIDEWALK AND CURB OFF THE BRIDGE PER THE DETAILS PROVIDED AT THE LOCATIONS SHOWN IN THE PLANS. PAYMENT SHALL BE UNDER ITEMS 701010, 705001, AND 302007. REMOVAL OF EXISTING CURB AND SIDEWALK SHALL BE PAID UNDER ITEM 758000. WHERE PROPOSED CONCRETE SIDEWALK IS CONSTRUCTED TO MEET EXISTING SIDEWALK, THE EXISTING SIDEWALK SHALL BE SAWCUT AT THE TIE-IN POINT OR MEET THE NEAREST EXISTING SIDEWALK JOINT. ALL SAW CUTTING SHALL BE FULL DEPTH, UNLESS OTHERWISE NOTED ON THE PLANS OR DIRECTED BY THE ENGINEER AND SHALL BE PAID FOR UNDER ITEM 762002-SAWCUTTING, CONCRETE, FULL DEPTH. SIDEWALK REPAIR AT THE SOUTHWEST APPROACH WILL INCLUDE EXCAVATION OF FOUNDATION MATERIAL, PLACEMENT OF 6" PERFORATED PIPE UNDERDRAIN, PLACEMENT OF GEOTEXTILES AND PLACEMENT OF R-4 RIPRAP. SEE PLAN DETAILS FOR LOCATION AND LIMITS. PAYMENT SHALL BE UNDER ITEMS 202000, 712005, 713002 AND 715001.
26. REPLACE DETERIORATED SEAL AT DECK ACCESS PANEL WITH SILICONE JOINT SEAL. PAYMENT SHALL BE UNDER ITEM 605692.
27. THE DIMENSIONS SHOWN ON THE PLANS ARE BASED ON THE EXISTING BRIDGE PLANS. THE EXISTING BRIDGE PLANS ARE AVAILABLE UPON REQUEST FROM THE DELAWARE DEPARTMENT OF TRANSPORTATION. THE APPLICABLE CONSTRUCTION CONTRACT NUMBERS ARE 71-10-001 AND 75-05-006. THE CONTRACTOR SHALL VERIFY THE DIMENSIONING SHOWN PRIOR TO CALCULATING QUANTITIES AND ORDERING MATERIALS. REINFORCEMENT BAR LENGTHS SHALL BE VERIFIED IN THE FIELD PRIOR TO ORDERING.



|                       |  |
|-----------------------|--|
| ADDENDUMS / REVISIONS |  |
| ▲ SHEET REMOVED       |  |
|                       |  |
|                       |  |

SCALE AS NOTED

**BR 1-687, 1-688, 1-693; SOUTH WALNUT STREET, SOUTH MARKET STREET AND FOURTH STREET OVER CHRISTINA RIVER**

|            |              |              |
|------------|--------------|--------------|
| CONTRACT   | BRIDGE NO.   | <b>1-693</b> |
| T201007405 | DESIGNED BY: | AJF          |
| COUNTY     | CHECKED BY:  | JAC          |
| NEW CASTLE |              |              |

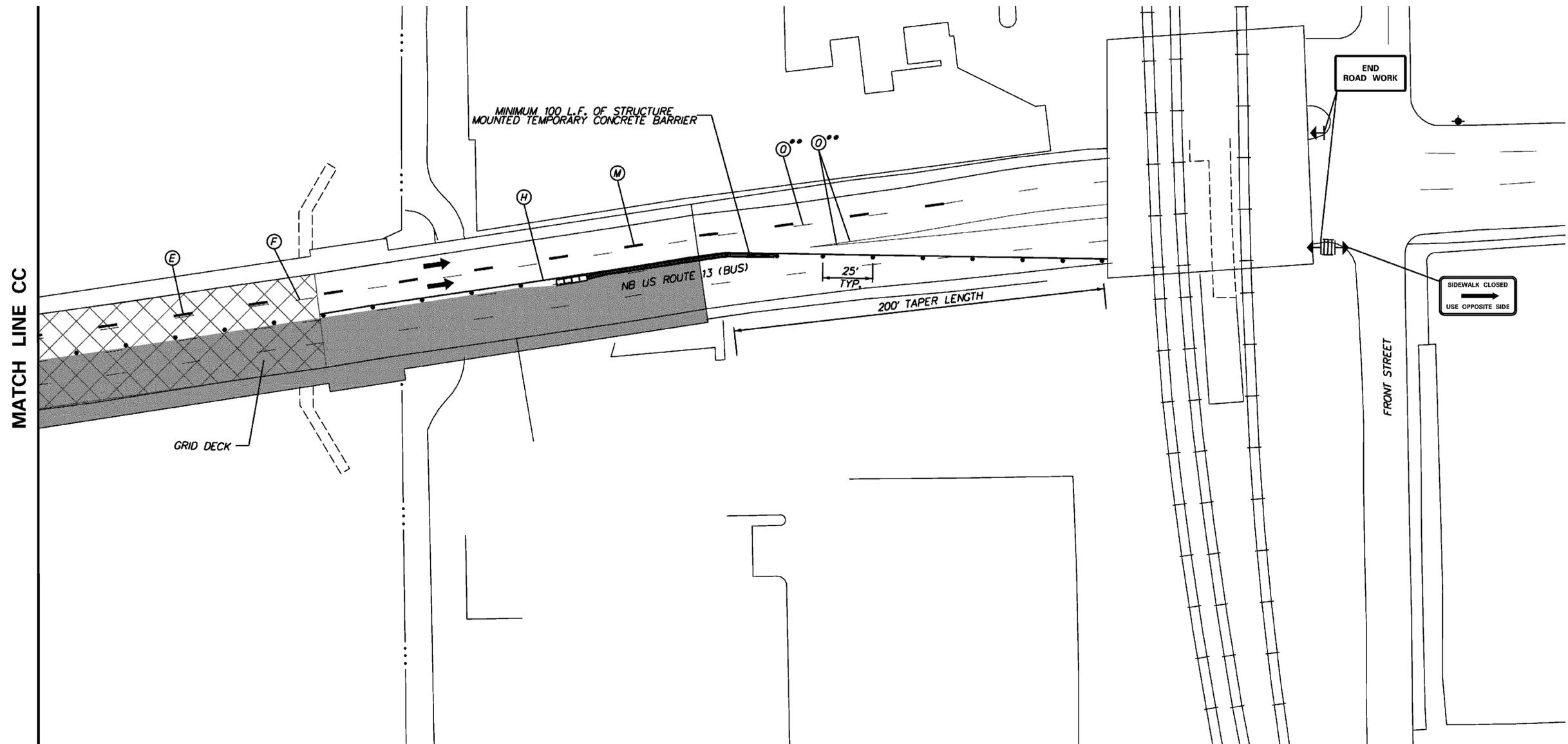
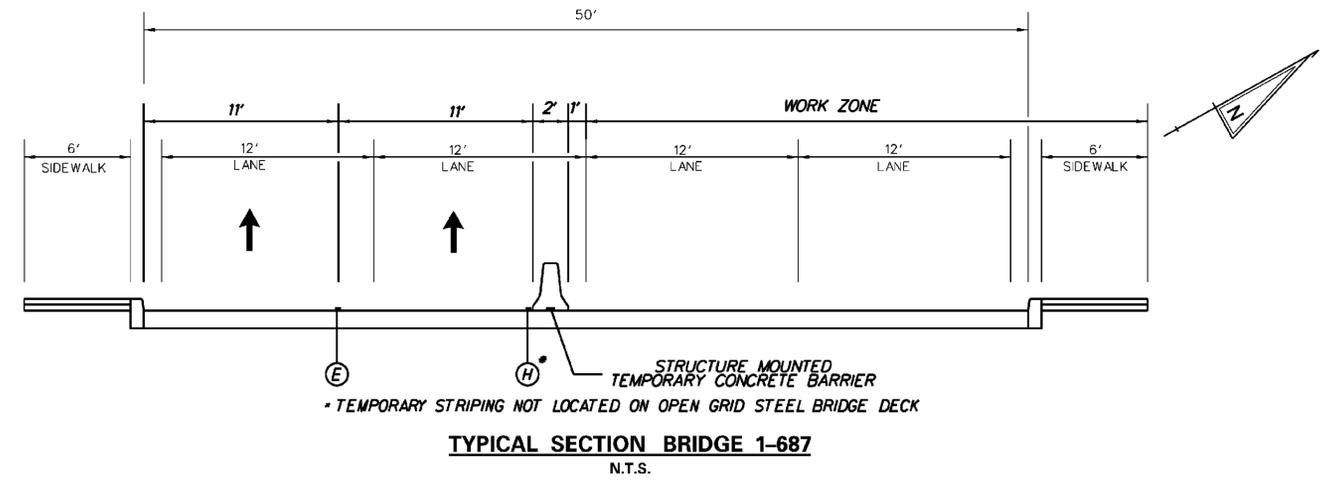
**SITE NOTES**

|             |     |
|-------------|-----|
| SHEET NO.   | 60  |
| TOTAL SHTS. | 111 |

| CONSTRUCTION PHASING LEGEND |  |
|-----------------------------|--|
|                             | WORK AREA PHASE 2                            |
|                             | STRUCTURE MOUNTED TEMPORARY CONCRETE BARRIER |
|                             | PHASING TRAFFIC FLOW ARROW                   |
|                             | WARNING SIGN                                 |
|                             | PLASTIC DRUM                                 |
|                             | ARROW PANEL                                  |
|                             | TRUCK MOUNTED ATTENUATOR                     |
|                             | BARRICADE, TYPE 3                            |
|                             | TYPE 2 ATTENUATOR                            |
|                             | GRID DECK                                    |

| TEMPORARY PAVEMENT MARKINGS LEGEND |   |          |
|------------------------------------|---|----------|
| SYMBOL                             | ITEM  | QUANTITY |
| (E)                                | 4" DASHED WHITE TEMPORARY PAINT PAVEMENT STRIPING, 10' LINE & 30' GAP (ITEM 748019) | 40 LF    |
| (F)                                | 4" DASHED GREEN TEMPORARY PAINT PAVEMENT STRIPING, 10' LINE & 30' GAP (ITEM 748019) | 40 LF    |
| (H)                                | 4" SOLID WHITE TEMPORARY TAPE PAVEMENT STRIPING (ITEM 748525)                       | 430 LF   |
| (M)                                | 4" DASHED WHITE TEMPORARY TAPE PAVEMENT STRIPING, 10' LINE & 30' GAP (ITEM 748525)  | 90 LF    |
| (D)                                | 4" BLACKOUT TAPE (ITEM 748517)  | 140 LF   |

•• HOT MIX PAVEMENT ONLY



# BRIDGE 1-693 NOTES

1. INSTALL ACCESS AND CONTAINMENT SYSTEM TO PREVENT DEBRIS FROM FALLING INTO CHRISTINA RIVER CHANNEL DURING REPAIR ACTIVITIES. ACCESS AND CONTAINMENT SYSTEM MUST BE APPROVED BY DELDOT PRIOR TO COMMENCEMENT OF WORK. PAYMENT SHALL BE INCIDENTAL TO ITEM 602612 (ACCESS AND CONTAINMENT FOR BRIDGE REPAIRS). DISTURBANCE TO THE CHANNEL IS NOT ALLOWED DURING CONSTRUCTION. EQUIPMENT AND MATERIALS SHALL NOT BE PLACED WITHIN THE CHANNEL LIMITS. TEMPORARY SUPPORTS, ACCESS PLATFORMS AND/OR RIGGING MUST BE SUPPORTED FROM THE BRIDGE DECK.
2. REPAIR SPALLS ON BRIDGE DECK AND APPROACH SLABS. PERFORM SOUNDING FOR CONCRETE DELAMINATION AROUND VISIBLE SPALLS, CRACKS AND DETERIORATION, WITH DELDOT INSPECTOR PRESENT. REMOVE AND REPLACE DELAMINATED OR DETERIORATED CONCRETE. PAYMENT SHALL BE AS DESCRIBED IN THE PROJECT NOTES.
3. SEAL CRACKS ON BRIDGE DECK AND APPROACH SLABS. PAYMENT SHALL BE UNDER ITEM 602629. ALLOW TO DRY, AND THEN APPLY SILANE BASED SEALANT TO ENTIRE BRIDGE DECK AND APPROACH SLABS. PAYMENT FOR SILANE BASED SEALANT SHALL BE UNDER ITEM 602546.
4. APPLY WATER BASED ACRYLIC CONCRETE SEALANT TO ALL FACES OF THE P.C.C. BARRIERS ON BRIDGE AND APPROACHES. PAYMENT SHALL BE UNDER ITEM 602518.
5. REPLACE ENTIRE EXISTING DEBONDED JOINT SEALS BETWEEN APPROACH SLABS AND BACKWALL AT THE NORTH AND SOUTH ABUTMENTS. PAYMENT SHALL BE UNDER ITEM 605692.
- △ 6. REPLACE PORTIONS OF THE EXPANSION JOINT AT THE NORTH ABUTMENT AS SHOWN IN THE EXPANSION JOINT REPLACEMENT DETAILS PROVIDED, AT THE LOCATIONS SHOWN IN THE PLANS. PAYMENT SHALL BE UNDER ITEMS 602013, 604000, AND ~~605001~~ 605585. REMOVAL OF EXISTING PORTLAND CEMENT CONCRETE MATERIAL, ARMOR STEEL AND REINFORCEMENT BARS SHALL BE UNDER ITEM 602580.
7. REMOVE ENTIRE EXISTING COMPRESSION SEALS AT THE SOUTH AND NORTH ABUTMENT AND REPLACE WITH INFLATABLE JOINT SEALS. PAYMENT SHALL BE UNDER ITEM 605676. BLAST CLEAN THE EXISTING STEEL JOINT ARMOR TO REMOVE ALL RUST, LOOSE PAINT, DIRT, OIL, DEBRIS & DELAMINATION. ALL EXPOSED JOINT ARMOR SURFACES SHALL BE FIELD PAINTED IN ACCORDANCE WITH SECTION 605 OF THE STANDARD SPECIFICATIONS. PAYMENT FOR CLEANING & PAINTING SHALL BE UNDER ITEMS 605619 AND 605533.
8. REPLACE ENTIRE EXISTING COMPRESSION SEALS AT PIERS IS & IN. PAYMENT SHALL BE UNDER ITEM 605641. BLAST CLEAN THE EXISTING STEEL JOINT ARMOR TO REMOVE ALL RUST, LOOSE PAINT, DIRT, OIL, DEBRIS & DELAMINATION. ALL EXPOSED JOINT ARMOR SURFACES SHALL BE FIELD PAINTED IN ACCORDANCE WITH SECTION 605 OF THE STANDARD SPECIFICATIONS. PAYMENT FOR CLEANING & PAINTING SHALL BE UNDER ITEMS 605619 AND 605533.
9. REPLACE PORTIONS OF THE BARRIERS AS SHOWN IN THE BARRIER REPLACEMENT DETAILS PROVIDED, AT THE LOCATIONS SHOWN IN THE PLANS. PAYMENT SHALL BE UNDER ITEMS 602017 & 604000. REMOVAL OF EXISTING PORTLAND CEMENT CONCRETE MATERIAL SHALL BE UNDER ITEM 602580. WATER CURE BARRIER PER SECTION 602.18 OF STANDARD SPECIFICATIONS. PAYMENT INCIDENTAL TO ITEM 602017.
10. REPAIR SPALLS ON BARRIERS ON AND OFF THE BRIDGE, PERFORM SOUNDING FOR CONCRETE DELAMINATIONS AROUND VISIBLE SPALLS, CRACKS AND DETERIORATION, WITH DELDOT INSPECTOR PRESENT. REMOVE AND REPLACE DELAMINATED OR DETERIORATED CONCRETE. PAYMENT SHALL BE AS DESCRIBED IN THE PROJECT NOTES FOR PCC MASONRY - ABUTMENTS, PIERS, WINGWALLS, ETC.
11. REATTACH ALL LOOSE ALUMINUM PEDESTRIAN RAILINGS. REPLACE ALL MISSING BOLTS OR ANCHOR BOLTS TO ENSURE PROPER ATTACHMENT OF RAILING TO POST AND/OR POST BASEPLATE TO SIDEWALK. PAYMENT SHALL BE INCIDENTAL TO ITEM 606509.
12. SEAL ALL LONGITUDINAL JOINTS BETWEEN THE APPROACH SLABS INCLUDING ANY GAP/OPENING BETWEEN THE EXISTING APPROACH SLABS AND THE MEDIAN AND/OR BARRIER. PAYMENT SHALL BE UNDER ITEM 605692.
13. REPLACE THE MEDIAN ON THE BRIDGE AS SHOWN IN THE MEDIAN REPLACEMENT DETAILS PROVIDED. PAYMENT FOR MEDIAN REPAIR ON THE BRIDGE SHALL BE UNDER ITEMS 602017 AND 604000. REMOVAL OF EXISTING PORTLAND CEMENT CONCRETE MATERIAL SHALL BE UNDER ITEM 602580. REMOVE PORTION OF THE MEDIAN OFF THE BRIDGE AT THE LOCATIONS INDICATED IN THE PLANS AND AS SHOWN IN THE PLAN DETAILS. PAYMENT FOR MEDIAN REPLACEMENT OFF THE BRIDGE SHALL BE UNDER ITEMS 701508 AND 302007. REMOVAL OF EXISTING MEDIAN AND CURB OFF THE BRIDGE SHALL BE PAID UNDER ITEM 758000. IN AREAS WHERE PROPOSED MEDIAN TYPES ARE NOT SIMILAR TO EXISTING, THE PROPOSED MEDIAN SHALL BE TRANSITIONED TO MATCH THE EXISTING MEDIAN OVER A 10 FOOT LENGTH, UNLESS OTHERWISE DIRECTED BY THE ENGINEER. PAYMENT FOR THE TRANSITION AREA SHALL BE UNDER ITEM 701508.
- △ 14. CLEAN, PAINT AND APPLY GREASE TO BRIDGE BEARINGS. FOR BEARINGS WITH VISIBLE CORROSION, REMOVE EXISTING PAINT, AND PREPARE SURFACE PRIOR TO APPLICATION OF NEW PAINT COATINGS. PAYMENT SHALL BE UNDER ITEMS 605619 AND 605533. APPLY GREASE TO NEWLY PAINTED BEARINGS. SPECIFICATIONS FOR GREASE SHALL COMPLY WITH PROJECT NOTES FOR THIS CONTRACT. APPLICATION OF GREASE FOR REPAINTED BEARINGS SHALL BE INCIDENTAL TO ITEM 605533. FOR REMAINING BEARINGS NOT TO BE RE-COATED WITH PAINT, APPLY GREASE TO BEARINGS. PAYMENT SHALL BE INCIDENTAL TO ITEM 605636. PRIOR TO APPLICATION OF GREASE, PREPARE BEARING SURFACE FOR APPLICATION AS REQUIRED FOR PROPER ADHERENCE OF THE GREASE, AND AS APPROVED BY THE DELDOT INSPECTOR. USE LOW PRESSURE WATER BLASTING TO REMOVE EXISTING DEBRIS. HAND WIPE TO REMOVE EXISTING DEBRIS IN LOCATIONS APPROVED BY THE DELDOT INSPECTOR. AVOID DAMAGE TO EXISTING PAINT COATING BY USING LOW PRESSURE WATER BLASTING SUFFICIENT TO REMOVE EXISTING DEBRIS AND CONTAMINANTS. GREASE SHALL BE APPLIED TO ALL BEARINGS ON BRIDGE. ALL DEBRIS ON PIER CAP AND ABUTMENT BEARING SEATS SHALL BE REMOVED. REMOVAL OF DEBRIS AT BEARING SEATS IS INCIDENTAL TO ITEM ~~605629~~ 605533.
15. REPAIR SPALLS ON UNDERSIDE (BOTTOM) OF BRIDGE DECK. PERFORM SOUNDING FOR CONCRETE DELAMINATION AROUND VISIBLE SPALLS, CRACKS AND DETERIORATION, WITH DELDOT INSPECTOR PRESENT. REMOVE AND REPLACE DELAMINATED OR DETERIORATED CONCRETE. PAYMENT SHALL BE AS DESCRIBED IN PROJECT NOTES.
16. FULLY CLEAN AND PAINT ALL STEEL STRUCTURAL COMPONENTS WITHIN 6' OF THE ABUTMENT BACKWALLS. ON THE REMAINING PORTIONS OF THE APPROACH SPANS (SPANS IS, 2S, IN & 2N), PERFORM SPOT CLEANING AND PAINTING OF STEEL STRUCTURAL COMPONENTS EXHIBITING ACTIVE CORROSION. PAYMENT SHALL BE UNDER ITEMS 605619 AND 605533. LOCATIONS TO BE PAINTED SHALL BE WHERE CORROSION OR DETERIORATION OF THE EXISTING PAINT COATING IS VISIBLE, AND AS APPROVED BY THE DELDOT INSPECTOR. LOCATIONS TO BE PAINTED WILL BE REVIEWED WITH THE DELDOT INSPECTOR PRIOR TO COMMENCEMENT OF CLEANING AND PAINTING OPERATIONS.
17. REPAIR SPALLS AND DELAMINATIONS IN CONCRETE ABUTMENTS, BACKWALLS AND WINGWALLS. PERFORM SOUNDING FOR DELAMINATION AROUND VISIBLE CRACKS, SPALLS AND DETERIORATION. SOUNDING IS INCIDENTAL TO THE APPROPRIATE SPALL REPAIR ITEM. REMOVE AND REPLACE DELAMINATED AND DETERIORATED CONCRETE. PAYMENT FOR CONCRETE SPALL AND DELAMINATION REPAIR SHALL BE AS DESCRIBED IN THE PROJECT NOTES FOR SPALL REPAIR.
18. REPAIR CRACKS IN CONCRETE ABUTMENTS, BACKWALLS AND WINGWALLS. CRACK REPAIR SHALL BE PERFORMED UNDER PAY ITEM 602626 OR 602611, AS APPROVED BY DELDOT INSPECTOR.
19. APPLY SILICONE ACRYLIC CONCRETE SEALANT TO ALL EXPOSED VERTICAL AND HORIZONTAL SURFACES OF CONCRETE ABUTMENTS, BACKWALLS AND WINGWALLS. SEE PROJECT NOTES FOR ADDITIONAL CLARIFICATION OF SEALANT COATING REQUIREMENTS. PAYMENT SHALL BE UNDER ITEM 602646. ENSURE PROPER SURFACE PREPARATION PRIOR TO APPLICATION OF SEALANT, IN ACCORDANCE WITH SPECIAL PROVISION REQUIREMENTS.
20. REPAIR SPALLS AND DELAMINATIONS ON CONCRETE PIERS AND PIER CAPS. PERFORM SOUNDING FOR DELAMINATION AROUND VISIBLE CRACKS, SPALLS AND DETERIORATION. SOUNDING IS INCIDENTAL TO THE APPROPRIATE SPALL REPAIR ITEM REMOVE AND REPLACE DELAMINATED OR DETERIORATED CONCRETE. PAYMENT FOR CONCRETE SPALL AND DELAMINATION REPAIR SHALL BE AS DESCRIBED IN THE PROJECT NOTES FOR SPALL REPAIR.
21. REPAIR CRACKS ON PIERS AND PIER CAPS. CRACK REPAIR SHALL BE PERFORMED UNDER PAY ITEMS 602611 AND 602626, AS APPROVED BY DELDOT INSPECTOR.
22. APPLY SILICONE ACRYLIC CONCRETE SEALANT TO ALL EXPOSED VERTICAL AND HORIZONTAL SURFACES OF CONCRETE PIERS. SEE PROJECT NOTES FOR ADDITIONAL CLARIFICATION OF SEALANT COATING REQUIREMENTS. PAYMENT SHALL BE UNDER ITEM 602646. ENSURE PROPER SURFACE PREPARATION PRIOR TO APPLICATION OF SEALANT, IN ACCORDANCE WITH SPECIAL PROVISION REQUIREMENTS.
23. CLEAN AND FLUSH SCUPPER DRAINS ON BRIDGE DECK. PAYMENT SHALL BE UNDER ITEM 605582.
- △ 24. REPLACE SIDEWALK AND CURB OFF THE BRIDGE PER THE DETAILS PROVIDED AT THE LOCATIONS SHOWN IN THE PLANS. PAYMENT SHALL BE UNDER ITEMS 701010, 705001, AND 302007. REMOVAL OF EXISTING CURB AND SIDEWALK SHALL BE PAID UNDER ITEM 758000. WHERE PROPOSED CONCRETE SIDEWALK IS CONSTRUCTED TO MEET EXISTING SIDEWALK, THE EXISTING SIDEWALK SHALL BE SAWCUT AT THE TIE-IN POINT OR MEET THE NEAREST EXISTING SIDEWALK JOINT. ALL SAW CUTTING SHALL BE FULL DEPTH, UNLESS OTHERWISE NOTED ON THE PLANS OR DIRECTED BY THE ENGINEER AND SHALL BE PAID FOR UNDER ITEM ~~762002-SAWCUTTING, CONCRETE, FULL DEPTH,~~ 762003, SAWCUTTING, CONCRETE VARIABLE DEPTH. SIDEWALK REPAIR AT THE SOUTHWEST APPROACH WILL INCLUDE EXCAVATION OF FOUNDATION MATERIAL, PLACEMENT OF 6" PERFORATED PIPE UNDERDRAIN, PLACEMENT OF GEOTEXTILES AND PLACEMENT OF R-4 RIPRAP. SEE PLAN DETAILS FOR LOCATION AND LIMITS. PAYMENT SHALL BE UNDER ITEMS 202000, 712005, 713002 AND 715001. REMOVAL, TEMPORARY STORAGE AND RESETTING OF THE EXISTING P.C.C. BARRIER SHALL BE INCIDENTAL TO ITEM 758000.
25. REPLACE DETERIORATED SEAL AT DECK ACCESS PANEL WITH SILICONE JOINT SEAL. PAYMENT SHALL BE UNDER ITEM 605692.
26. REPAIR THE LIVE LOAD ANCHORAGE PER THE DETAILS PROVIDED IN THE PLANS.
27. REPLACE PORTIONS OF THE OPEN GRID STEEL DECK PER THE DETAILS PROVIDED IN THE PLANS.
28. ADD BIRD CONTROL NETTING PER THE DETAILS PROVIDED IN THE PLANS.
29. PERFORM MECHANICAL AND ELECTRICAL REPAIRS PER THE DETAILS PROVIDED IN THE PLANS.
30. THE DIMENSIONS SHOWN ON THE PLANS ARE BASED ON THE EXISTING BRIDGE PLANS. THE EXISTING BRIDGE PLANS ARE AVAILABLE UPON REQUEST FROM THE DELAWARE DEPARTMENT OF TRANSPORTATION. THE APPLICABLE CONSTRUCTION CONTRACT NUMBERS ARE 71-10-001 AND 75-05-006. THE CONTRACTOR SHALL VERIFY THE DIMENSIONING SHOWN PRIOR TO CALCULATING QUANTITIES AND ORDERING MATERIALS. REINFORCEMENT BAR LENGTHS SHALL BE VERIFIED IN THE FIELD PRIOR TO ORDERING.

|  |                       |  |                |   |            |              |       |            |             |
|--|-----------------------|--|----------------|---|------------|--------------|-------|------------|-------------|
|  <b>DELAWARE<br/>DEPARTMENT OF TRANSPORTATION</b> | ADDENDUMS / REVISIONS |  | SCALE AS NOTED | BR 1-687, 1-688, 1-693; SOUTH WALNUT STREET, SOUTH MARKET STREET AND FOURTH STREET OVER CHRISTINA RIVER | CONTRACT   | BRIDGE NO.   | 1-693 | SITE NOTES | SHEET NO.   |
|  | △ REVISED NOTES       |  |                |   | T201007405 | DESIGNED BY: | AJF   |            | 67          |
|  |                       |  |                |   | NEW CASTLE | CHECKED BY:  | JAC   |            | TOTAL SHTS. |
|  |                       |  |                |   |            |              |       |            | 111         |