THE STATE OF DELAWARE
DEPARTMENT OF TRANSPORTATION

CONSTRUCTION PLANS FOR:

9TH STREET ENHANCEMENTS,
PHASE II

CONTRACT NUMBER: T201620013
FEDERAL AID PROJECT NUMBER: ETEA-2015(55)

BEGIN CONTRACT NO. T201620013 STATION 10 + 17.09
COUNTY: NEW CASTLE M.R. #: N/A
END CONTRACT NO. T201620013 STATION 13 + 93.28

PROJECT LOCATION
NOT TO SCALE

APPROVED FOR ADVERTISEMENT

D A By 12/12/19
DATE
UNOFFICIAL WEBSITE COPY
GENERAL NOTES

1. This project is to be constructed in accordance with the Delaware Department of Transportation "Standard Specifications" and these notes. Changes to the project may be made by the Engineer.

2. Electronic project files that will be made available to the awarded contractor include:

   a. All plan sheets, in PDF format.
   b. Proposed digital terrain model, in .dtm format, compatible with software currently used by DelDOT.
   c. Section files, in .jcw format, containing only the proposed 3D triangles of the proposed digital terrain model.
   d. All plan sheets, in PDF format.
   e. ASCII data files with coordinates and elevations for proposed points as selected by the Engineer.

PROJECT NOTES

SECTION 100

1. Any change to items noted to be relocated or reset by the Contractor, at the discretion of the Engineer, shall be repaired and/or replaced at the Contractor's expense.

SECTION 200

2. Items to be removed under new streets - removal of structures and obstructions shall include, but not be limited to the following:
   a. Parking meters
   b. Metal cover
   c. Sign pole
   d. Pole base

SECTION 600

3. Station and elevation data given for drainage structures are to be applied to the center of the pipes at the center flow line for new and to the center of the structure for existing roads and sidewalks.

SECTION 700

4. In areas where proposed curb meets existing curb and the two curb types are not similar, the proposed curb shall be transferred to a linear face, unless otherwise directed by the Engineer. Payment for this work, including saw cutting existing curb, shall be made to the proposed curb face.

5. Where proposed courbe rectitude projected to intersect existing roadway, the existing roadway shall be removed at a 45° angle or at the nearest centerline. Any saw cutting shall be full depth, unless otherwise noted on the plans or directed by the Engineer. All work shall be paid for using item 202560 - sawcutting concrete, full depth.

6. All signs and signs to be reinstalled or renewed shall be located at the point where the new pavement is to tie into the existing pavement.

SECTION 800

7. The Contractor shall notify the City of Wilmington's Forester at (302) 576-2580 to perform tree root removal that conflicts with the proposed concrete work.

8. Adjusting water meters and curbsides is paid for under item 10300 - adjust water valve box.

9. Work shall be in conformance with item 202560 - contaminated material.

10. Prior to construction of the project, the Contractor shall contact the City's Forester/Urban Forester at 302-576-2582 to set up an inspection to assess the impacts of potential contaminated soil. Work shall be in conformance with item 202570 - contaminated soil.

11. The Contractor shall notify the City's Forester/Urban Forester in days prior to the start of construction to coordinate the relocation of the existing mailbox at station 10+28 LC.
### Notes:
1. See construction plans for existing pavement materials and depths.
2. See PCC curb pavement patch details on TS-01 for limits of pavement patch items.

### Table: Materials and Depths

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<tr>
<th>Material</th>
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### Specification:

- **Item 401007** - SUPERPAVE TYPE C, PG 76-22 (CARBONATE STONE)
- **Item 401016** - SUPERPAVE TYPE B, PG 76-22
- **Item 401018** - SUPERPAVE TYPE B, PG 64-22, PATCHING
- **Item 401021** - SUPERPAVE TYPE BCBC, PG 64-22
- **Item 301001** - GRADED AGGREGATE BASE COURSE, TYPE B
- **Item 301002** - GRADED AGGREGATE BASE COURSE, TYPE B
- **Item 701011** - P.C.C. CURB, TYPE 1-4
- **Item 701012** - P.C.C. CURB, TYPE 1-6
- **Item 701013** - P.C.C. CURB, TYPE 1-8 (REVEAL VARIES - SEE CONSTRUCTION PLANS)
- **Item 705001** - PCC SIDEWALK, 4"

### Additional Information:

- See PCC curb pavement patch details on TS-01 for limits of pavement patch items.
### Vertical Reference

This project is referenced to the North American Vertical Datum of 1988 (NAVD 88).

### Horizontal Reference

This project is referenced to the Delaware State Plane Coordinate System, North American Datum of 1983 (NAD 83).

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#### Construction Alignment Control

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**DATUM REFERENCE:**

- **Horizontal:** This project is referenced to the Delaware State Plane Coordinate System, North American Datum of 1983 (NAD 83).
- **Vertical:** This project is referenced to the North American Vertical Datum of 1988 (NAVD 88).
### Curb Schedule

<table>
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### Curb Schedule Notes


### Test Hole Schedule

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### 9th Street Enhancements, Phase II

- Convert to Manhole Schedule

- Drainage Inlet Schedule

- Drainage Pipe Schedule

- Roadway Core Schedule
P.C.C. CURB PAVEMENT PATCH DETAIL

NOT TO SCALE
STA. 10+40 BT TO STA. 10+65 BT:
STA. 11+42 BT TO STA. 11+62 BT:
STA. 12+15 LT TO STA. 12+35 LT:
STA. 13+75 LT TO STA. 13+97 LT:

NOT TO SCALE

BIKE PAD DETAIL

NOT TO SCALE
NOTES:
1. BIKE PADS SHALL BE ANCHORED AS PER MANUFACTURER’S RECOMMENDATIONS.
2. TYPICAL EMBEDMENT MOUNT SHOWN.

CONSTRUCTION AROUND EXISTING SIGNAL POLE

NOT TO SCALE
NOTES:
1. SWACUT EXISTING SIDEWALK AND CURB AROUND SIGNAL POLE BASE.
2. PROTECT EXISTING SIGNAL POLE AND EXISTING SIDEWALK SLAB DURING REMOVAL OF CONCRETE OUTSIDE OF SLAB AND CONSTRUCTION OF PROPOSED CURB AND SIDEWALK.
3. CONSTRUCT PROPOSED SIDEWALK AS SHOWN ON PLANS. PLACE A MINIMUM OF 4" OF EXISTING CURB AND SIDEWALK.
4. INSTALL SHREDDED HARDWOOD BARK MULCH IN THE TREE PITS.

TREE PIT DETAIL

NOT TO SCALE
NOTES:
1. INSTALL IN ACCORDANCE WITH SECTION 9B.
2. CONTRACTOR IS RESPONSIBLE FOR CONTACTING MISS UTILITY PRIOR TO INSTALLATION OF PLANT MATERIAL.
3. INSTALL SHREDDED HARDWOOD BARK MULCH IN THE TREE PITS.
4. INSTALL 1/2" POLYURETHANE-BONDED RECYCLED RUBBER TYPE IV EXPANSION JOINT FULL WIDTH OF SIDEWALK WHERE PROPOSED SIDEWALK BORDERS EXISTING SIDEWALK SLAB AND SIGNAL POLE.

5. SWACUT EXISTING SIDEWALK AND CURB AROUND SIGNAL POLE BASE.
6. SWACUT LINES SHALL BE ALONG EXISTING SIDEWALK JOINTS OR A MINIMUM OF 4" FROM THE BOTTOM OF POLE BASE.
7. SWACUT EXISTING CONCRETE CONSTRUCTION AROUND EXISTING SIGNAL POLE.

8. INSTALL SHREDDED HARDWOOD BARK MULCH IN THE TREE PITS.
9. INSTALL IN ACCORDANCE WITH SECTION 9B.
10. CONTRACTOR IS RESPONSIBLE FOR CONTACTING MISS UTILITY PRIOR TO INSTALLATION OF PLANT MATERIAL.
11. INSTALL SHREDDED HARDWOOD BARK MULCH IN THE TREE PITS.
12. INSTALL 1/2" POLYURETHANE-BONDED RECYCLED RUBBER TYPE IV EXPANSION JOINT FULL WIDTH OF SIDEWALK WHERE PROPOSED SIDEWALK BORDERS EXISTING SIDEWALK SLAB AND SIGNAL POLE.

NEW CASTLE COUNTY
TOURNOI 30+00
CT-1428

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9TH STREET ENHANCEMENTS, PHASE II

CONSTRUCTION DETAILS

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NOTES:
A. DETAIL AND SHAPE OF CURB RAMP SHOWN ON WRAP AROUND CURB RAMP.
B. CURB RAMP DETAIL SHOWN AS "MATCH EXISTING." CURB RAMP TO BE TIED BACK AT LOCATION OF EXISTING CURB RAMP.
C. DETAIL AND SHAPE OF CURB RAMP SHOWN ON WRAP AROUND CURB RAMP.
D. CURB RAMP DETAIL SHOWN AS "MATCH EXISTING." CURB RAMP TO BE TIED BACK AT LOCATION OF EXISTING CURB RAMP.
E. CURB RAMP DETAIL SHOWN AS "MATCH EXISTING." CURB RAMP TO BE TIED BACK AT LOCATION OF EXISTING CURB RAMP.

SCALE: FEET

NEW CASTLE COUNTY

9TH STREET ENHANCEMENTS,

PHASE II

ADDENDA / REVISIONS
SECTION SHEET NO.

DESIGNED BY:
CHECKED BY:

CONSTRUCTION DETAILS
NOTES:
1. LANDING AREAS SHALL NOT EXCEED A 2% CROSS SLOPE AND A 2% RUNNING SLOPE.
2. DETECTABLE WARNING SURFACES SHALL BE PLANAR AND FLUSH WITH ADJACENT SURFACES.
3. REFER TO GRADES AND GEOMETRIC PLANS FOR ADDITIONAL GRADATION.
4. ELEVATIONS SHOWN ARE FOR THE LIMITS OF DEPRESSED CURB AND GUTTER.
5. THE CONTRACTOR SHALL TIE-BACK TO THE EXISTING SURFACE AT THE LOCATIONS THAT ARE SHOWN AS "MATCH EXISTING" OR "M.E."

UNOFFICIAL WEBSITE COPY
GENERAL MOT NOTES:

1. Maintenance of Traffic During Lane Closures and Lane Shifts shall conform to typical Application 3, 21, and 23 of the Delaware MUTCD.

2. A. The use of markers and graded aggregate base course islands in the travel way, temporary traffic way, multilane volume markings and access ramps for the purpose of providing a temporary roadway surface, shoulder, repair, tapered edge for utilities, bus stops, and locating temporary drop-off islands is permitted unless it is otherwise designated to be used in the contract plans. Use cold patch, bituminous concrete, bituminous concrete wearing or Tarter Mill, as noted in the contract documents or approved by the Engineer. Payment for cold patch, bituminous concrete or bituminous concrete wearing shall be paid as noted in the contract documents. Tarter Mill bituminous concrete shall be paid under the bituminous concrete island item.

3. Wheel or grade shall be used at the following locations where access to a business, residence, or drop-off island is to be maintained unless otherwise noted in the plans or directed by the Engineer to use bituminous concrete or cold patch. All wheel and grade shall be rolled and compacted to help prevent the material from unravelling.

4. Entrances

5. Low volume access ramps (identified in the contract documents).

6. Edge drop-offs adjacent to live roadways and shoulders and the proposed road construction.

GRADING AND MAINTENANCE BASE COURSE THAT IS BEING USED IN ROADWAY WIDETH/PILLAR BETWEEN TRAVEL LANES AND PAVEMENT BED, EDGE OF TRAVELWAY, OR ENTRANCE ACCESS SHALL BE IDENTIFIED TO ITEM NO. 90000 - MAINTENANCE OF TRAFFIC, THE BASE COURSE MATERIAL SHALL BE PLACED AT NO GREATER THAN THE SLOPE SPECIFIED IN TABLE 8-1-1 AND SHALL BE COMPACTED. ACCESS BASE COURSE MATERIAL SHALL BE PAVED AHEAD AND USED IN THE NEXT SEGMENT AND SHALL BE INCIDENT TO THE PARTICULAR BASE COURSE. ANY ITEM NO. 90000 PAYMENT SHALL BE MADE FOR WHEEL OR GRADE TEMPORARY ROADWAY MATERIAL 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. VERTICAL DIFFERENCES SHALL BE CORRECTED IN ACCORDANCE WITH TABLE 6-8-1 OF THE DELAWARE MUTCD.

7. Acceptable materials for temporary pedestrian paths shall include concrete, hot-mix, compacted wheel or graded aggregate base course material. Plywood or brickstone structures shall also include detectable edging and guiding raised in accordance with ADA guidelines and the Delaware MUTCD. Temporary pedestrian paths shall be incidental to item 90000 unless otherwise specified in the plans. Stone or graded aggregate base course shall not be used for temporary pedestrian path.
SUGGESTED SEQUENCE OF CONSTRUCTION

PHASE 1:

1. Install traffic control and erosion and sediment control devices, as shown on the plans.
2. Install detour as shown on grids T.A-21 and T.A-23 to perform work on Tantalus St and Orange St.
3. Install pedestrian detour as shown on grid U.P-02 for Phase 1. The contractor shall coordinate work with DP&L Construction to maintain non-access for pedestrians and businesses during construction.
4. Clear and cover within Phase 1 project area, remove existing sidewalk, curb, and lighting.
5. Construct curb, sidewalk, curb ramps, lighting, drainage, and paved pavement within Phase 1 project area, as shown on the plans.
6. Stabilize all disturbed areas prior to moving to the next phase.
7. Remove pedestrian detour.

NOTES:

- Contractor shall remove only the amount of curbs and sidewalks that can be feasibly done at the end of the day and covered with temporary pedestrian paving, in order to maintain proper accessibility within the Phase 1 project area. Paving for pathways shall be incidental to turn roads – maintenance of traffic.

CONSTRUCTION PHASING, M.O.T. AND EROSION CONTROL PLAN - PHASE 1
SUGGESTED SEQUENCE OF CONSTRUCTION

1. Install traffic control and erosion and sediment control devices as shown on the plans. Maintain access for property owners in Phase 2 work area.
2. Use 5-A and 7-A-5 to perform work on 5th Ave. and Orange St.
3. Install pedestrian detour for Phase 2 as shown on plans. The contractor shall coordinate with city for insertion construction to maintain access for pedestrians and businesses during construction.
4. Clear and grade within Phase 2 project area. Remove existing curb, sidewalk, and lighting.
5. Install traffic control and erosion and sediment control devices, as shown on the plans. Maintain vehicle detour.
6. Install pedestrian detour for Phase 2 as shown on DP-3.
7. Maintain ADA access for pedestrians and businesses during construction.

NOTES:
1. Contractor shall remove only the amount of curb and sidewalk that can be closed off at the end of the day and covered with temporary pedestrian paths, in order to maintain access for property owners in Phase 2 work area. Payment for damages shall be made to item 1500 - Maintenance of Traffic.
SUGGESTED SEQUENCE OF CONSTRUCTION

PHASE 3:
1. Install traffic control and erosion and sediment control devices, as shown on the plans. Maintain vehicle detour during work and overlay.
2. Install phase 3 traffic control per TA-21 and TA-23.
3. Mill and overlay pavement within phase 3 project area, as shown on the plans. Maintain vehicle detour at Tannahill, St. and Orange St. using flaggers.
4. Install final pavement materials.
5. Stabilize all disturbed areas prior to moving to the next phases.
6. Remove vehicle detour.
7. Remove all sediment controls between Tannahill, street and Orange street.
1. Install traffic control and erosion and sediment control devices as shown on the plans.
2. Install Phase 4 traffic control per TA-21 and TA-25.
3. Install pedestrian detour for Phase 4 per TA-29.
4. Clear and strip within Phase 4 project area, remove existing sidewalk and curb.
5. Construct curb, sidewalk, curb ramps, and patch pavement within Phase 4 project area, as shown on the plans.
6. All disturbed areas are to be stabilized prior to removal of erosion and sediment control devices.
7. Remove pedestrian detour.
8. Remove inset sediment controls.

NOTES:
1. Contractor shall remove only the amount of curb and sidewalk that can be filled in at the end of the day and covered with temporary pedestrian paths in order to maintain access for property owners in Phase 4.
2. Curbing shall be incidental to item 8(a) - no maintenance of traffic.

SUGGESTED SEQUENCE OF CONSTRUCTION
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<th>SHEET NO.</th>
<th>PLAN SHEET NO.</th>
<th>SHEET DESIGNATION</th>
<th>NTY</th>
<th>INFORMATION</th>
<th>SIGN WIDTH (IN)</th>
<th>SIGN WIDTH (FT)</th>
<th>SIGN AREA (SF)</th>
<th>ITEM 578-006 SINGLE POST (EACH)</th>
<th>SIGN DEPOSITION</th>
<th>REMOVE</th>
<th>INSTALL</th>
<th>ITEM 578-005 INSTALLATION OR REMOVAL OFF-TRAFFIC SIGNS/ON MULTIPLE SIGN POSTS (EACH)</th>
<th>POST INSTALLATION TYPE</th>
<th>CODE &amp; 12 Post (W/Crossbar) (EACH)</th>
<th>ITEM 578-001 4&quot; x 8&quot; (EACH)</th>
<th>ITEM 578-007 4&quot; x 12&quot; (EACH)</th>
<th>EVEN_CNTY</th>
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