THE STATE OF DELAWARE
DEPARTMENT OF TRANSPORTATION

CONSTRUCTION PLANS FOR:

MAGNOLIA YARD SEWER
IMPROVEMENTS

CONTRACT NUMBER: T201780106
FEDERAL AID PROJECT NUMBER: N/A
COUNTY: KENT M.R. #: K367

LOCATION MAP

RISING SUN (TP)
WHISPERING PINES (TP)
GEORGE MEYERS DEV.
HIGHWAY ACRES
COUNTRY FIELDS
SITE
DOE RUN

4/24/2020

APPROVED FOR ADVERTISEMENT

CONSTRUCTION SPECIFICATIONS

ASSOCIATED CONTRACTS

INDEX OF SHEETS

TOTAL SHEETS: 17

APPROVED DESIGN EXCEPTIONS

DESIGN PARAMETERS
REQUIRED
PROVIDED
DATE

ADDENDA & REVISIONS

DESCRIPTION
AMEND & DATE
GENERAL NOTES

1. Sanitary sewer shall be constructed in accordance with the most recent Kent County standard specifications for construction, special provisions, supplemental special provisions, and recommended standards for maintenance facilities or systems identified by the engineer. Sanitary sewer shall also be in accordance with the most recent Delaware Department of Natural Resources and Environmental Controls, General Notes.

2. The contractor is responsible for obtaining approval and acceptance of the sanitary sewer system in Kent County upon completion of construction. As-built plans, drawings, and details shall be held for a period of 10 years from the date of acceptance. The contractor is responsible for identifying any necessary changes or additions to the as-built plans and details.

3. The contractor shall be responsible for the layout of the work and all work within their possession on site. A set of construction plans bearing Kent County's stamp of approval shall be furnished to the county. The plans and details shall be in accordance with the most recent Kent County's standard specifications and general notes.

4. Construction shall not deviate from the plans and specifications approved by Kent County. Any changes or additions to the plans and details shall be in accordance with these special requirements. The contractor shall retain a set of construction plans and details as an addition to the contract documents as reference.

5. The county will maintain the responsibility of construction inspection, either through county personnel or one or more contract inspection firms at the discretion of the county. The contractor shall be responsible for the successful completion of the project within the confines of the plans and details.

6. Construction shall be performed in accordance with the specifications, standard details, and the recommended standards for wastewater systems.

7. The contractor shall be responsible for the layout of the work and all work within their possession on site. A set of construction plans shall be furnished to the county. The plans and details shall be in accordance with the most recent Kent County's standard specifications and general notes.

8. The location of the reference points of a project shall be identified to the contractor in the field, together with a location map by the design engineer.

9. The contractor shall be responsible for preparing the premise plans for their projects and shall make no changes or alterations without the prior written approval of the public works director.

10. A pre-construction meeting is required with Kent County Public Works Department's subject matter experts prior to construction commencing.

11. In areas where proposed curb meets existing curb and the two curb types are not compatible, the contractor shall be responsible for preparing the required details and ensuring that the work is completed in accordance with these special requirements. The contractor shall retain a set of construction plans and details as an addition to the contract documents as reference.

12. The county will maintain the responsibility of construction inspection, either through county personnel or one or more contract inspection firms at the discretion of the county. The contractor shall be responsible for the successful completion of the project within the confines of the plans and details.

13. The location of the reference points of a project shall be identified to the contractor in the field, together with a location map by the design engineer.

14. The contractor shall be responsible for preparing the premise plans for their projects and shall make no changes or alterations without the prior written approval of the public works director.

15. The contractor shall deliver all excess milled material to the Delaware Department of Transportation for use as fill.
SHEET NO. 4

MAGNOLIA YARD
SEWER IMPROVEMENTS

DEPARTMENT OF TRANSPORTATION

OVERVIEW
### SANITARY PIPE SCHEDULE

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### SANITARY FORCE MAIN SCHEDULE

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### NOTES

1. The sanitary force main shall be installed with a minimum cover of 42"-H2O.
2. Maintain a minimum horizontal distance of 10'-0" between the proposed water main and proposed sewer force main. Contact DIM for alignment.
3. Maintain a minimum vertical separation of 6'-0" between water mains and the proposed sewer force main, at all crossings.
4. Contractor shall install manholes at all bends, fittings, and valves per details.
5. 2" gate valves shall be installed over force main.
6. CONTRACTOR SHALL REPLACE EXISTING 2" FORCE MAIN.
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8. CONTRACTOR SHALL REPLACE EXISTING 2" FORCE MAIN.
9. 10. Contractor shall conform to minimum 12'-0" separation from existing water wells per DIM's "Regulations Governing the Construction and Use of Wells." Contact DIM for details.
10. Contractor shall replace existing water wells per DIM's "Regulations Governing the Construction and Use of Wells." Contact DIM for details.
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**NOTES:**

1. TRUCK WASH PUMP STATION SHALL BE SAME MODEL DH3200 150 GALLON W-SERIES DUPLEX OR APPROVED EQUAL. SEE SHEET DT-04.


3. MAINTAIN A MINIMUM OF 12-INCHES OF VERTICAL SEPARATION BETWEEN THE FORCEMAIN AND ALL STORM MAINS.
DIAMETER OF PIPE

- MIN. 6'-0"
- MIN. 1'-0"
- PIPE DIA. + 2'
- M
- IN.
- 6"

CONSTRUCTION DETAILS

- SAW CUT (TYP.)
- FULL DEPTH
- FULL WIDTH OF LANE
- 3" TYPE "C" HOT MIX
- TYPICAL
- TOP OF PIPE
- DIRT TO 1'-0" ABOVE TOP OF PIPE
- "STONE DUST" OR HOT MIX 3" TYPE "B"
- CR-6 PACKED LOCALLY IN 8" LIFTS.

PAVEMENT PATCH DETAIL

NOT TO SCALE
NOTES:
1. ALL CONCRETE TO BE 2,500 PSI.
2. THRUST BLOCK DIMENSIONS SHOWN ARE MINIMUM.
   DIMENSIONS ARE BASED UPON SOIL BEARING
   PRESSURE OF 3,000 PSF AND STATIC WATER
   PRESSURE OF 10 PSI.
3. PLACE 4 MILLIMETER PLASTIC SHEETING
   BETWEEN UTILITY PIPES AND/OR FITTING
   AND CONCRETE BUTTRESS.
   FOR PLAN A ONLY.
### EXISTING PANEL

#### PANEL: DP1

**SECTION 2**

**MAIN: MLO**

- **AMP:** 400
- **VOLT:** 120/240
- **PHASE:** 3

**Contract:** 3
**Amendment:** 0
**Addendums / Revisions:** 0

**County:** KENT
**Bridge No.:** T201780106
**NTS:** E-501
**Scale:** E 5/16 in. = 1 ft

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- **Phase A:** 0.06 kVA
- **Phase B:** 0.06 kVA
- **Phase C:** 0.06 kVA

**Note:** Each circuit shall be identified, and each equipment circuit breaker shall be labeled.

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| Light Text: Direct Buried Conduit Under Asphalt Detail | NTS: E-501 |

- **Phase A:** 1-1/2" C.
- **Phase B:** 1-1/2" C.
- **Phase C:** 1-1/2" C.

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### ADDENDUMS / REVISIONS

- **Phase A:** 1-1/2" C.
- **Phase B:** 1-1/2" C.
- **Phase C:** 1-1/2" C.

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