

THE STATE OF DELAWARE



DEPARTMENT OF TRANSPORTATION
OFFICE OF TRANSPORTATION SOLUTIONS
PLANS AND SPECIFICATIONS FOR

CONTRACT NUMBER- T201403501 CENTRAL MAINTENANCE
FEDERAL AID NUMBER- NONE PAGE 1 OF 12
CONTRACT TITLE- DRAINAGE IMPROVEMENTS OPEN-END, CENTRAL DISTRICT,
FY 2015-2017

PLANS PREPARED BY: *Rust M...*
CENTRAL DISTRICT DESIGN ENGINEER

DATE RECOMMENDED: _____
CENTRAL DISTRICT CONTRACTS ENGINEER

DATE RECOMMENDED: 6/6/14
Maria Fantini
CENTRAL DISTRICT MAINTENANCE ENGINEER

DATE APPROVED: 6/6/14
[Signature]
CENTRAL DISTRICT ENGINEER

Professional Engineer Seals:

- Top seal: MARIA-ANN F. FANTINI, REGISTERED, No. 7797, DELAWARE, PROFESSIONAL ENGINEER
- Bottom seal: THOMAS E. GREVE, REGISTERED, NO. 9247, DELAWARE, PROFESSIONAL ENGINEER

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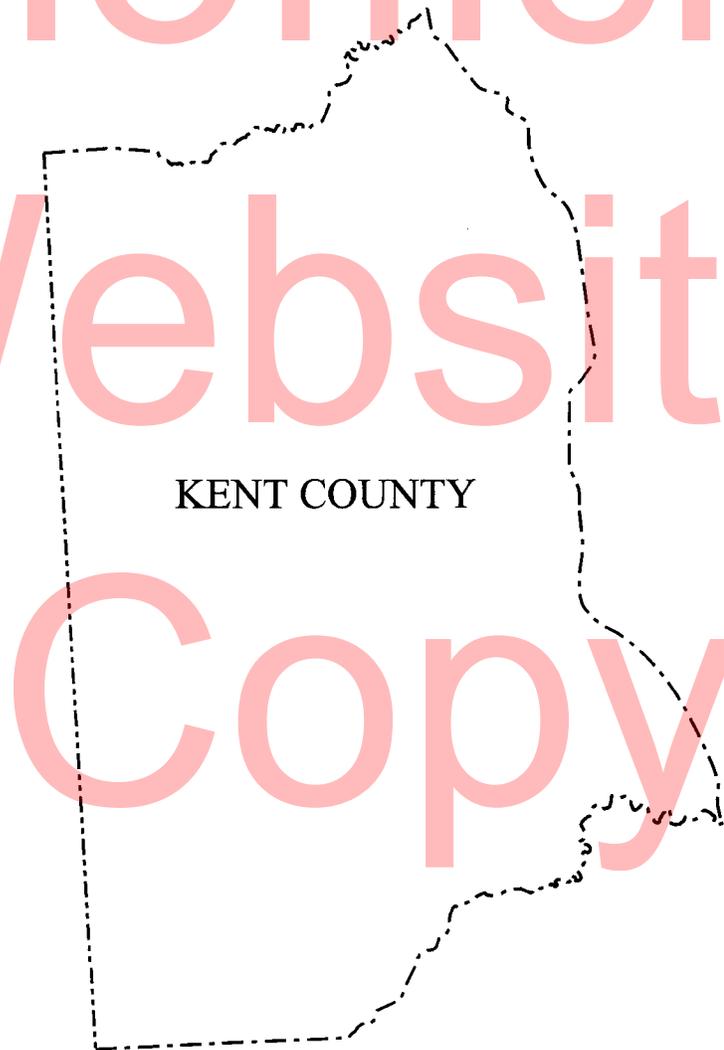
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DRAINAGE IMPROVEMENTS OPEN-END, CENTRAL DISTRICT, FY 2015-2017

LOCATION MAP

LOCATION 1- Open End Location - Actual Locations to be determined



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DRAINAGE IMPROVEMENTS OPEN-END, CENTRAL DISTRICT, FY 2015-2017

NOTES

GENERAL:

1. CONSTRUCTION OF THIS CONTRACT SHALL CONFORM TO DELAWARE DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS DATED AUGUST 2001 AS AMENDED BY THE SUPPLEMENTAL SPECIFICATIONS, THE SPECIAL PROVISIONS, THE MOST RECENT STANDARD CONSTRUCTION DETAILS, AND THESE PLANS.

2. THE PURPOSE OF THIS CONTRACT IS TO MAKE DRAINAGE IMPROVEMENTS ALONG OR ACROSS ROADS AND/OR STREETS WITHIN THE CENTRAL DISTRICT. DEPENDING ON FUND AVAILABILITY, THE DEPARTMENT RESERVES THE RIGHT TO ADD OR DELETE LOCATIONS AND/OR QUANTITIES FOR THIS CONTRACT. SUCH LOCATION OR QUANTITY ADDITIONS OR DELETIONS SHALL NOT BE CAUSE FOR AN INCREASE OR DECREASE IN ANY CONTRACT UNIT BID PRICES. NO ITEM PRICES ARE TO BE RENEGOTIATED DUE TO EITHER AN INCREASE OR DECREASE IN QUANTITY USAGE RESULTING FROM SAID ADDITIONS OR DELETIONS.

THE DISTRICT RESERVES THE RIGHT TO PRIORITIZE, SUBSTITUTE, ADD, OR DELETE LOCATIONS AT ANYTIME DURING THE CONTRACT.

LENGTH OF CONTRACT:

THE PERIOD OF THIS CONTRACT IS FROM THE DATE OF THE "NOTICE TO PROCEED" FOR ONE (1) CALENDAR YEAR. THE DOLLAR VALUE ESTIMATED TO BE UTILIZED IN EACH OF THE THREE YEARS SHALL BE APPROXIMATELY ONE THIRD OF THE ENTIRE CONTRACT AWARD VALUE WITH THE TWO SUBSEQUENT YEARS BEING AN ADDITIONAL ONE THIRD EACH.

CONTRACT EXTENSION: THE DEPARTMENT RESERVES THE RIGHT TO REQUEST TO EXTEND THIS CONTRACT FOR TWO ADDITIONAL ONE YEAR EXTENSIONS AT THE ORIGINAL UNIT BID PRICES SPECIFIED EXCEPT AS NOTED HERIN. THE ONE YEAR EXTENSIONS MUST BE APPROVED BY BOTH PARTIES IN WRITING, AT LEAST 90 DAYS PRIOR TO EXPIRATION OF THE EXISTING CONTRACT. THE SUCCESSFUL BIDDER MAY EXTEND THE CONTRACT PRICE TO ANY OTHER STATE OR LOCAL AGENCY DURING THE CONTRACT PERIOD IF IT IS AGREEABLE WITH BOTH PARTIES.

PRICE ADJUSTMENT: EXTENSION TO FUTURE YEARS IS DEPENDENT ON LEGISLATIVE FUNDING APPROPRIATIONS FOR THESE FISCAL YEARS AND AGREEMENT ON SUCCEEDING YEAR'S PRICING AS DESCRIBED HERIN. THE BID PRICES IN THE CONTRACT MUST BE GUARANTEED FOR THE FIRST YEAR OF THE CONTRACT. IN FUTURE YEAR CONTRACT EXTENSIONS, THE VENDOR MAY REQUEST AN INCREASE IN UNIT PRICES. THE VENDOR WILL BE REQUIRED TO REQUEST ANY PRICE INCREASES PRIOR TO THE EXTENSION OF THE CONTRACT. THE BID PRICES IN THE CONTRACT EXTENSION SHALL BE GUARANTEED FOR THE PERIOD OF THE CONTRACT EXTENSION. IF THE DIFFERENCE REQUESTED EXCEEDS THE CHANGE IN THE NATIONWIDE ALL URBAN CONSUMER PRICE INDEX (CPI-U), U.S. CITY AVERAGE FOR THE SAME PERIOD, APPROVAL OF ANY PRICE ADJUSTMENT OFFERED THE VENDOR ABOVE THE CPI-U WILL BE AT THE DISCRETION OF THE DISTRICT ENGINEER. THE DEPARTMENT RETAINS THE RIGHT TO CANCEL THE FUTURE YEAR EXTENSION IF ANY ACCEPTABLE AGREEMENT CANNOT BE REACHED WITH THE VENDOR ON THE PRICE ADJUSTMENT. THIS CONTRACT MAY BE EXTENDED FOR SUCH PERIOD, QUANTITIES, AND TIME, AS IS MUTUALLY AGREEABLE BETWEEN BOTH PARTIES.

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THE CPI-U IS CALCULATED AS FOLLOWS:

CURRENT CPI-U - CPI-U AT PURCHASE ORDER DATE = CPI-U DIFFERENCE

DIVIDE THE CPI-U DIFFERENCE BY CPI-U AT PURCHASE ORDER DATE = CPI-U FACTOR

MOVE THE FACTOR DECIMAL POINT OVER TWO (2) SPACES GIVES YOU THE % INCREASE FOR THE TIME PERIOD AND MAXIMUM ALLOWABLE PERCENTAGE INCREASE FOR THAT PURCHASE.

EXAMPLE: 173.2 - 165.4 = 7.8 (DIFFERENCE)
 7.8 / 165.4 = .047158403 (FACTOR)
 4.71% CPI-U FOR THAT PERIOD

3. THE LOCATION LISTING INDICATES ESTIMATED QUANTITIES FOR THE ORIGINAL THREE YEAR CONTRACT. DURING THE BIDDING PERIOD, ANY QUESTIONS PERTAINING TO LOCATIONS SHALL BE DIRECTED TO THE CONTRACT ADMINISTRATOR. AFTER THE AWARD, SUCH QUESTIONS SHALL BE REFERRED TO THE APPROPRIATE DISTRICT ENGINEER OR HIS REPRESENTATIVE.

4. PERFORMANCE AND PROGRESS OF WORK:

WORK TO BE PERFORMED UNDER THIS CONTRACT SHALL BE GENERATED THROUGH WORK ORDERS ISSUED TO THE CONTRACTOR BY THE DEPARTMENT'S CENTRAL DISTRICT. WORK ORDERS WILL BE ISSUED AS A GROUP TO ALLOW THE MOST EFFICIENT ALLOCATION OF THE CONTRACTOR'S WORK FORCE AS THE SITUATION ALLOWS.

EXECUTION OF EACH WORK ORDER GROUP IS TO BEGIN WITHIN FOUR (4) DAYS OF IT'S BEING ISSUED TO THE CONTRACTOR, UNLESS REQUIRED MATERIALS ARE NOT AVAILABLE, AND WORK WILL BE COMPLETED WITHIN THE TIME FRAME ALLOCATED ON THE WORK ORDER. NON-AVAILABILITY OF MATERIAL SHALL BE VERIFIED BY AT LEAST THREE (3) INDEPENDENT SOURCES, WITH THE VERIFICATION FORMALLY PRESENTED IN WRITING BY THE CONTRACTOR TO THE DEPARTMENT WITHIN FOUR (4) WORKING DAYS.

IF WORK DOES NOT COMMENCE, OR NON-AVAILABILITY OF MATERIALS IS NOT PRESENTED IN THE ALLOTTED TIME, TIME CHARGES EQUAL TO LIQUIDATED DAMAGES FOR THE WORK ORDER GROUP SHALL COMMENCE. IF THEIR IS A VERIFIED NON-AVAILABILITY OF MATERIALS, TIME CHARGES SHALL COMMENCE ON THE FOURTH (4) WORKING DAY FOLLOWING THE DELIVERY DATE.

THE DEPARTMENT WILL ATTEMPT TO ASSIGN WORK-ORDERS IN A MANNER THAT WILL KEEP THE DISTANCE BETWEEN JOB ORDER LOCATIONS TO A MINIMUM AND IN A LOGICAL CONSTRUCTION SEQUENCE.

FAILURE TO COMPLETE A WORK GROUP IN THE SPECIFIED TIME SHALL CONSTITUTE "FAILURE TO PURSUE THE WORK" AND SUBJECTS THE CONTRACTOR TO LIQUIDATED DAMAGES AS OUTLINED IN SUBSECTION 108.08 OF THE STANDARD SPECIFICATIONS. EACH WORK ORDER OR GROUP OF WORK

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ORDERS IS TO BE COMPLETED WITHIN THE SPECIFIED TIME. ADDITIONAL ITEMS AND/OR WORKING DAYS MAY BE ADDED TO ANY WORK ORDER AS NEEDED AT THE DISCRETION OF THE ENGINEER. IF THE WORK ON A SPECIFIC WORK ORDER GROUP IS NOT COMPLETED WITHIN THE ALLOCATED TIME, LIQUIDATED DAMAGES WILL BE ASSESSED IN ACCORDANCE WITH SUBSECTION 108.09 OF THE STANDARD SPECIFICATIONS BASED ON THE TOTAL VALUE OF THAT PARTICULAR WORK ORDER OR WORK ORDER GROUP, WHICHEVER IS APPLICABLE.

A SEMI-FINAL INSPECTION WILL BE PERFORMED ON EACH WORK ORDER OR WORK ORDER GROUP AFTER THE DEPARTMENT RECEIVES COPIES OF THE COMPLETED WORK ORDERS FROM THE CONTRACTOR. ALL WORK MUST MEET THE DEPARTMENT'S SPECIFICATIONS, THE REQUIREMENTS AS OUTLINED IN THESE NOTES, AND THOSE WORK ORDERS PERTAINING TO GUARDRAIL END TREATMENTS MUST MEET THE MANUFACTURER'S SPECIFICATIONS BEFORE THEY CAN BE CONSIDERED COMPLETE. IF ALL THE WORK ORDERS ARE SATISFACTORILY COMPLETED, THE WORK WILL BE ACCEPTED BY THE DEPARTMENT, AT WHICH TIME THE WORK ORDER OR WORK ORDER GROUP WILL BE CONSIDERED CLOSED. UPON CLOSURE, THE DEPARTMENT WILL PROCESS THE CONTRACTOR'S INVOICES FOR THE SPECIFIC WORK ORDERS.

5. PAYMENTS SHALL BE ISSUED ON A MONTHLY BASIS FOR THE AMOUNT OF WORK COMPLETED, INVOICED AND ACCEPTED BY THE DEPARTMENT.

6. THE CONTRACTOR SHALL PROVIDE ALL RESIDENTS WHO LIVE ADJACENT TO THE WORK ZONE WITH A MINIMUM 48 HR. PRIOR WRITTEN NOTICE FOR THE START OF CONSTRUCTION WORK. THIS NOTIFICATION SHALL INCLUDE THE SCOPE OF WORK, WORKING HOURS, ANTICIPATED START AND COMPLETION DATES, CONTRACTOR NAME & ADDRESS, AND DELDOT CONTACT NUMBERS. FAILURE TO GIVE PROPER NOTICE WILL RESULT IN A SUSPENSION OF WORK REQUIRING NOTICE, UNTIL PROPER NOTICE IS PROVIDED.

7. THE CONTRACTOR SHALL SUBMIT THE REQUIRED COPIES OF A DETAILED PROGRESS SCHEDULE (PSC) AS OUTLINED IN STANDARD SPECIFICATION 108.04 PRIOR TO OR AT THE PRECONSTRUCTION MEETING. DETAILS SHALL INCLUDE A DESCRIPTION OF EACH WORK ACTIVITY, THE PLANNED DAYS OF WORK, MULTIPLE CREWS OR SHIFTS, AND SCHEDULED WORKING HOURS. DURING THE CONTRACT, THE CONTRACTOR SHALL SUBMIT TWO-WEEK (OR AS REQUIRED) "LOOK AHEAD" SCHEDULES TO THE AREA ENGINEER/ MANAGER NO LATER THAN NOON OF EACH THURSDAY. FAILURE TO COMPLY WILL RESULT IN A SUSPENSION OF ALL CONTRACT WORK WITH TIME CHARGES CONTINUING TO BE ASSESSED.

MAINTENANCE OF TRAFFIC AND PAVEMENT MARKINGS

8. THE CONTRACTOR SHALL SUBMIT DETAILED DRAWINGS (INCLUDING BUT NOT LIMITED TO LANE AND SHOULDER WIDTHS, TURN LANE LENGTHS, LOCATIONS OF STOP BARS, TURN ARROWS, AND RAILROAD CROSSINGS) THAT DEPICT THE EXISTING PAVEMENT MARKINGS FOR EACH PROJECT LOCATION A MINIMUM OF TWO WEEKS PRIOR OT THE START OF WORK AT EACH LOCATION. FINAL PAVEMENT MARKINGS SHALL CONFORM TO ALL EXISTING PATTERNS UNLESS OTHERWISE DIRECTED BY THE ENGINEER. THE FINAL PAVEMENT MARKINGS SHALL BE PLACED WITHIN FIVE (5) CALENDAR DAYS AFTER THE PLACEMENT OF THE FINAL COURSE OF HOT-MIX. FAILURE TO COMPLY WILL RESULT IN SUSPENSION OF ALL OTHER CONTRACT WORK WITH TIME CHARGES CONTINUING TO BE ASSESSED. THE DEPARTMENT WILL PROVIDE STRIPING LAYOUT AT LOCATIONS WHERE NO PAVEMENT MARKINGS PREVIOUSLY EXISTED. IF DEPARTMENT FORCES PROVIDE STRIPING LAYOUT ON LOCATIONS WHERE MARKINGS PREVIOUSLY EXISTED, THEN THE CONTRACTOR SHALL REIMBURSE THE DEPARTMENT FOR

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THE LAYOUT COSTS. UNLESS OTHERWISE DIRECTED BY THE ENGINEER, WHITE EDGE LINES SHALL WRAP AROUND THE RADIUS OF ALL SIDE STREETS AND MAJOR COMMERCIAL ENTRANCES TO A TANGENT POINT. YELLOW CENTERLINES SHALL BE CONTINUOUS AROUND MEDIAN ISLANDS. THE CONTRACTOR SHALL BE REQUIRED TO SHOW PROOF THAT HE HAS SUFFICIENT APPROVED STRIPING MATERIALS ON HAND TO ENSURE STRIPING IS COMPLETED PRIOR TO FULL OPENING ROADWAY TO TRAFFIC.

9. ANY ERRONEOUS MARKING WILL NOT BE PAID FOR AND SHALL BE CORRECTED IMMEDIATELY AT THE CONTRACTORS EXPENSE. ERRONEOUS MARKINGS OR SHADOWS THAT EXCEED ONE (1) INCH IN WIDTH SHALL BE REMOVED BY EITHER SAND OR WATER BLASTING. NO OTHER REMOVAL METHODS WILL BE ALLOWED. A FLAT BLACK PAINT OR DRIVEWAY SEALER SHALL BE APPLIED IN THE AREA OF THE REMOVED MARKING TO MASK THE REPAIR. ANY DAMAGE TO THE PAVEMENT CAUSED BY REMOVAL OF ERRONEOUS MARKINGS SHALL BE REPAIRED / REPLACED TO THE SATISFACTION OF THE ENGINEER AT THE CONTRACTORS EXPENSE.

10. AT THE END OF EACH DAY'S OPERATION AND BEFORE TRAFFIC IS RETURNED TO UNRESTRICTED ROADWAY USE, TEMPORARY STRIPING SHALL BE UTILIZED AT LOCATIONS THAT REQUIRE PERMANENT STRIPING PER THE LATEST VERSION OF THE PERMANENT MARKING SECTION OF THE TRAFFIC CONTROL MANUAL. TEMPORARY PAVMENT MARKINGS SHALL BE PAID AT THE APPLICABLE CONTRACT UNIT PRICE.

11. INTERNATIONAL CROSSWALK SYMBOLS WILL BE PLACED AT ALL EXISTING CROSSWALK LOCATIONS OR OTHER LOCATIONS AS DIRECTED BY THE ENGINEER. PAYMENT WILL BE UNDER THE APPLICABLE STRIPING ITEMS.

12. ALL WORK SHALL BE PERFORMED IN A MANNER THAT WILL REASONABLY PROVIDE THE LEAST PRACTICABLE OBSTRUCTION TO ALL ROAD USERS, INCLUDING VEHICULAR, PEDESTRIAN, AND BICYCLE TRAFFIC, AND SHALL CONFORM TO THE REQUIREMENTS OF THE DELAWARE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES, PART 6, INCLUDING ALL REVISIONS UP TO THE DATE OF ADVERTISEMENT FOR BIDS.

13. THE CONTRACTOR SHALL SUBMIT A TRAFFIC CONTROL PLAN, INCLUDING THE NECESSARY NCHRP 350 AND/OR MASH CERTIFICATIONS FOR ALL DEVICES THAT WILL BE UTILIZED, FOR EACH LOCATION BEFORE THE START OF THE PRE-CONSTRUCTION MEETING. WRITTEN APPROVAL MUST BE RECEIVED BEFORE THE START OF WORK AT EACH AND EVERY LOCATION.

14. ALL TRAFFIC CONTROL DEVICES SHALL BE IN NEW OR REFURBISHED CONDITION AND SHALL BE IN COMPLIANCE WITH THE TRAFFIC CONTROL MANUAL AND WITH NCHRP REPORT 350 REPORT AND/OR MASH AS DEFINED IN PART 6 OF THE MANUAL. THE DEVICES SHALL BE APPROVED BY THE ENGINEER PRIOR TO USE AND SHALL BE MAINTAINED IN GOOD CONDITION FOR THE DURATION OF THE CONTRACT.

15. PEDESTRIAN MAINTENANCE OF TRAFFIC: THIS WORK SHALL CONSIST OF PROVIDING AND MAINTAINING AN ACCESSIBLE PEDESTRIAN ROUTE THROUGHOUT THE PROJECT'S LIMITS IN ACCORDANCE WITH THE AMERICANS WITH DISABILITIES ACT OF 1990 (ADA) TITLE II, PARAGRAPH 35.130. THE CONTRACTOR SHALL BE REQUIRED TO REVIEW EACH CURB RAMP LOCATION AND SUBMIT THE APPROPRIATE MAINTENANCE OF TRAFFIC DETAIL AND DEVICES TO THE ENGINEER FOR EACH LOCATION AT LEAST 2-WEEKS BEFORE CONSTRUCTION FOR REVIEW, COMMENT, AND APPROVAL. THE

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FOLLOWING CONSIDERATIONS SHALL BE TAKEN INTO ACCOUNT WHEN ADDRESSING ACCESSIBLE PEDESTRIAN MAINTENANCE OF TRAFFIC:

- ALL PEDESTRIANS, INCLUDING PERSONS WITH DISABILITIES, SHALL BE PROVIDED WITH A REASONABLY SAFE, CONVENIENT AND ACCESSIBLE PATH THAT REPLICATES AS MUCH AS PRACTICABLE THE EXISTING PEDESTRIAN FACILITIES.
- MAINTAIN ACCESS TO ALL BUSINESS AND RESIDENTS AT ALL TIMES.
- PROVIDE PEDESTRIAN ACCESS THRU OR AROUND THE WORK ZONE. IF A DETOUR IS CHOSEN THE CONTRACTOR MUST SUBMIT THE DETOUR ROUTE TO THE ENGINEER FOR REVIEW AND APPROVAL. THE DETOUR ROUTE MUST MEET OR EXCEED THE CURRENT CONDITIONS.
- WORK SHOULD BE PHASED SO THAT ALL AREAS OF AN INTERSECTION/SIDEWALK PATH ARE NOT UNDER CONSTRUCTION AT THE SAME TIME UNLESS A CLEAR PATH IS PROVIDED AND IDENTIFIED
- TRAFFIC CONTROL DEVICES AND OTHER CONSTRUCTION MATERIALS AND FEATURES SHALL NOT INTRUDE INTO THE USABLE WIDTH OF THE SIDEWALK, TEMPORARY PATHWAY OR OTHER PEDESTRIAN FACILITY.
- SIGNS AND OTHER DEVICES MOUNTED LOWER THAN 7 FT ABOVE THE TEMPORARY PEDESTRIAN PATHWAY SHALL NOT PROJECT MORE THAN 4 IN. INTO ACCESSIBLE PEDESTRIAN ROUTE.
- A SMOOTH, CONTINUOUS HARD SURFACE SHALL BE PROVIDED THROUGHOUT THE ENTIRE LENGTH AND WIDTH OF THE PEDESTRIAN ROUTE THROUGHOUT CONSTRUCTION. THERE SHALL BE NO CURBS OR VERTICAL ELEVATION CHANGES GREATER THAN ¼ IN. IN GRADE OR TERRAIN THAT COULD CAUSE TRIPPING OR BE A BARRIER TO WHEELCHAIR USE.

PROJECT

16. UNLESS OTHERWISE NOTED IN THE PLANS OR DETAILS, SAWCUTTING HOT-MIX SHALL BE PAID UNDER ITEM 762001.

17. REMOVAL OF HOT-MIX OVER A PIPE TRENCH SHALL BE INCIDENTAL TO THE UNIT COST BID FOR REMOVAL OF STRUCTURES AND OBSTRUCTIONS (PIPE).

18. ALL PORTLAND CEMENT CONCRETE MUST BE RECEIVED FROM AN APPROVED PRODUCTION PLANT UNLESS OTHERWISE APPROVED BY THE ENGINEER. ONLY CALIBRATED VOLUMETRIC CONCRETE TRUCKS WILL BE PERMITTED TO PROVIDE ON-SITE MIXTURES. THIS PERTAINS TO BOTH WORK OCCURRING DURING NORMAL WORKING HOURS AND NIGHTTIME RESTRICTED WORK.

19. DRAINAGE INLETS, WHICH ARE 4 FOOT OR GREATER IN DEPTH AND ARE SLATED FOR REPAIR WILL HAVE STEPS INSTALLED IN ACCORDANCE WITH SECTION 708000 OF THE STANDARD SPECIFICATIONS. PAYMENT SHALL BE INCIDENTAL TO THE UNIT PRICE BID FOR ITEM 710001.

20. THE CONTRACTOR IS REMINDED THAT SECTION 105.07 OF THE STANDARD SPECIFICATIONS REQUIRES THE GENERAL CONTRACTOR TO HAVE A COMPETENT SUPERINTENDENT OR FOREMAN ON THE PROJECT AT ALL TIMES.

21. TRAFFIC CONTROL PLANS AND PROPOSED TIME RESTRICTIONS FOR EACH AND EVERY LOCATION SHALL BE SUBMITTED TO THE CENTRAL DISTRICT SAFETY OFFICER TWO (2) WEEKS PRIOR TO THE ANTICIPATED START OF WORK.

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22. NO STEEL PLATES WILL BE ALLOWED ON THIS PROJECT.

23. TA-10 MAINTENANCE OF TRAFFIC TWO LANE TWO WAY WITH LANE OR SHOULDER CLOSURE SHALL ONLY BE PAID ONE TIME PER ROADWAY LOCATION REGARDLESS OF WHETHER OR NOT BOTH LANES WILL HAVE TO BE SEQUENCED FOR CLOSURE.

24. THE STANDARD SPECIFICATION FOR PIPES IS HEREBY MODIFIED TO INCLUDE ONLY THE FIRST (1) ONE FOOT OF COVER OVER THE OUTSIDE OF THE PIPE IS INCLUDED IN THE COST OF THE PIPE. ALL FILL ABOVE (1) ONE FOOT WILL BE PAID UNDER 210000 FURNISHING BORROW TYPE "C" FOR PIPE, UTILITY TRENCH, AND STRUCTURE BACKFILL.

25. NO ENVIROMENTAL PERMITS ARE REQUIRED FOR THIS WORK PROVIDED NO JURISDICTIONAL WETLANDS OR WATERS ARE IMPACTED. IF THERE IS ANY QUESTIONS AS TO WHETHER OR NOT A WATER OR WETLAND IS JURISDICTIONAL, CONTACT THE DELDOT ENVIRONMENTAL STUDIES SECTION AT 302-760-2264.

26. THERE WILL BE APPROXIMATELY 30 OPEN-END LOCATIONS FOR TA-10 MAINTENANCE OF TRAFFIC TWO LANE TWO WAY WITH LANE OR SHOULDER CLOSURE.

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DRAINAGE IMPROVEMENTS OPEN-END, CENTRAL DISTRICT, FY 2015-2017

LOCATION 1 (VARIOUS LOCATIONS TO BE DETERMINED) FROM TO

LENGTH m L.F.

GENERAL IMPROVEMENTS

MISCELLANEOUS PIPE REPLACEMENT AND DITCHING OR GRADING

COMMENTS:

MATERIAL ESTIMATE FOR LOCATION 1

208000	EXCAVATION AND BACKFILLING FOR PIPE TRENCHES	1,400.00 C.Y.
210000	FURNISHING BORROW TYPE "C" FOR PIPE, UTILITY TRENCH, AND STRUCTURE BACKFILL	1,050.00 C.Y.
211000	REMOVAL OF STRUCTURES AND OBSTRUCTIONS	1.00 L.S.
211004	REMOVAL OF STRUCTURES AND OBSTRUCTIONS (PIPE)	800.00 L.F.
302005	GRADED AGGREGATE BASE COURSE, TYPE B	335.00 TON
302012	DELAWARE NO. 57 STONE	120.00 TON
401821	BITUMINOUS CONCRETE, SUPERPAVE, TYPE C, 160 GYRATIONS, PG 64-22, PATCHING	100.00 TON
401822	BITUMINOUS CONCRETE, SUPERPAVE, TYPE B, 160 GYRATIONS, PG 64-22, PATCHING	530.00 TON
612021	REINFORCED CONCRETE PIPE, 15", CLASS IV	100.00 L.F.
612022	REINFORCED CONCRETE PIPE, 18", CLASS IV	100.00 L.F.
612023	REINFORCED CONCRETE PIPE, 24", CLASS IV	150.00 L.F.
612025	REINFORCED CONCRETE PIPE, 30", CLASS IV	100.00 L.F.
612027	REINFORCED CONCRETE PIPE, 42", CLASS IV	100.00 L.F.
612028	REINFORCED CONCRETE PIPE, 48", CLASS IV	100.00 L.F.
612034	REINFORCED CONCRETE PIPE, 36", CLASS IV	550.00 L.F.
612200	REINFORCED CONCRETE ELLIPTICAL PIPE, 14"X23", CLASS III	100.00 L.F.
612205	REINFORCED CONCRETE ELLIPTICAL PIPE, 19"X30", CLASS IV	100.00 L.F.
612520	CORRUGATED POLYETHYLENE PIPE, TYPE S, 15"	100.00 L.F.
612522	CORRUGATED POLYETHYLENE PIPE, TYPE S, 12"	50.00 L.F.
612523	CORRUGATED POLYETHYLENE PIPE, TYPE S, 18"	50.00 L.F.
708050	DRAINAGE INLET, 34" X 18"	3.00 EACH
708051	DRAINAGE INLET, 34" X 24"	3.00 EACH
708052	DRAINAGE INLET, 48" X 30"	3.00 EACH
708583	PERSONAL GRATE FOR PIPE INLET	9.00 EACH
710001	ADJUSTING AND REPAIRING EXISTING DRAINAGE INLET	4.00 EACH
712005	RIPRAP, R-4	200.00 S.Y.
712006	RIPRAP, R-5	20.00 S.Y.

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LOCATION 1 (VARIOUS LOCATIONS TO BE DETERMINED) FROM TO

LENGTH m L.F.

GENERAL IMPROVEMENTS

MISCELLANEOUS PIPE REPLACEMENT AND DITCHING OR GRADING

COMMENTS:

MATERIAL ESTIMATE FOR LOCATION 1

712030	PRESACKED CONCRETE RIPRAP	20.00 C.Y.
712506	GABIONS	200.00 C.Y.
713003	GEOTEXTILES, RIPRAP	175.00 S.Y.
714000	LATERAL OR LONGITUDINAL DITCHING	200.00 L.F.
732004	TOPSOIL (TON)	200.00 TON
734013	PERMANENT GRASS SEEDING, DRY GROUND	1,000.00 S.Y.
743051	FLAGGER, KENT COUNTY, STATE	1,750.00 HOUR
743063	FLAGGER, KENT COUNTY, STATE, OVERTIME	120.00 HOUR
762001	SAW CUTTING, HOT MIX	1,500.00 L.F.
762002	SAW CUTTING, CONCRETE, FULL DEPTH	100.00 L.F.

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CONTRACT QUANTITIES SUMMARY SHEET

208000	EXCAVATION AND BACKFILLING FOR PIPE TRENCHES	1,400.00 C.Y.
210000	FURNISHING BORROW TYPE "C" FOR PIPE, UTILITY TRENCH, AND STRUCTURE BACKFILL	1,050.00 C.Y.
211000	REMOVAL OF STRUCTURES AND OBSTRUCTIONS	1.00 L.S.
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708583	PERSONAL GRATE FOR PIPE INLET	9.00 EACH
710001	ADJUSTING AND REPAIRING EXISTING DRAINAGE INLET	4.00 EACH
712005	RIPRAP, R-4	200.00 S.Y.
712006	RIPRAP, R-5	20.00 S.Y.
712030	PRESACKED CONCRETE RIPRAP	20.00 C.Y.
712506	GABIONS	200.00 C.Y.

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CONTRACT QUANTITIES SUMMARY SHEET

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714000	LATERAL OR LONGITUDINAL DITCHING	200.00 L.F.
732004	TOPSOIL (TON)	200.00 TON
734013	PERMANENT GRASS SEEDING, DRY GROUND	1,000.00 S.Y.
743051	FLAGGER, KENT COUNTY, STATE	1,750.00 HOUR
743063	FLAGGER, KENT COUNTY, STATE, OVERTIME	120.00 HOUR
762001	SAW CUTTING, HOT MIX	1,500.00 L.F.
762002	SAW CUTTING, CONCRETE, FULL DEPTH	100.00 L.F.
763000	INITIAL EXPENSE	LUMP SUM
763643	MAINTENANCE OF TRAFFIC, ALL INCLUSIVE	LUMP SUM

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