

THE STATE OF DELAWARE



DEPARTMENT OF TRANSPORTATION
MAINTENANCE AND OPERATIONS
CONSTRUCTION PLANS AND SPECIFICATIONS FOR

FOG SEAL OPEN-END, CENTRAL DISTRICT, FY 19-21

CONTRACT NUMBER - T201906802.01

PRIMAVERA ID - 19-34412

FEDERAL AID NUMBER - NONE

COUNTY: KENT

PLANS PREPARED BY:

DESIGNER

UNOFFICIAL
WEBSITE
COPY

DELDOT - CE IV/PROJECT MANAGER
MAINTENANCE AND OPERATIONS - (CED)

10/3/18

DATE



THIS SEAL APPLIES TO ALL SHEETS
BEARING THE "CED" SECTION
DESIGNATION

APPROVED FOR ADVERTISEMENT

DIRECTOR OF MAINTENANCE AND OPERATIONS

10/3/18

DATE

DEPARTMENT OF TRANSPORTATION

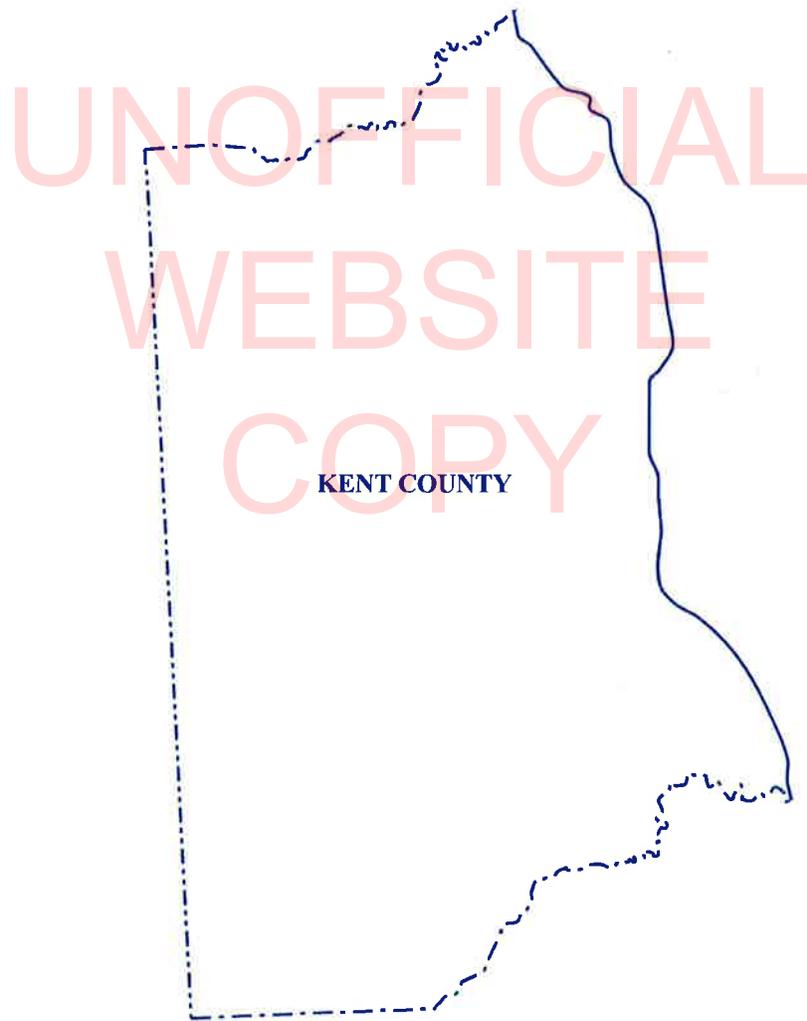
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FOG SEAL OPEN-END, CENTRAL DISTRICT, FY 19-21

LOCATION MAP



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NOTES

GENERAL

1. CONSTRUCTION OF THIS CONTRACT SHALL CONFORM TO DELAWARE DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS DATED AUGUST 2016 AS AMENDED BY THE SUPPLEMENTAL SPECIFICATIONS, THE SPECIAL PROVISIONS, THE MOST RECENT STANDARD CONSTRUCTION DETAILS, AND THESE PLANS.

2. THIS WILL BE AN OPEN-END CONTRACT CONSISTING OF RUBBER MODIFIED FOG SEAL OR SAND SEAL.

3. THE CONTRACT WILL BE A WORK-ORDER DRIVEN CONTRACT TO RUBBER MODIFIED FOG SEAL OR SAND SEAL PAVEMENTS AS REQUIRED FOR STATE MAINTAINED ROADS IN KENT COUNTY. THE WORK SHALL INCLUDE BUT NOT BE LIMITED TO MAINTENANCE OF TRAFFIC, AS DIRECTED BY THE ENGINEER AND AS REQUIRED BY THESE PLAN NOTES AND INCLUDED DETAIL. WORK SHALL BE DIRECTED BY THE ENGINEER OR REPRESENTATIVE VIA WORK ORDER(S).

THE SPECIFIC OPEN-END SITES ARE NOT LISTED HEREIN, BUT WILL BE ASSIGNED AS AVAILABLE BY CENTRAL DISTRICT MAINTENANCE PERSONNEL.

AS ADDITIONAL LOCATIONS ARE IDENTIFIED THEY WILL BE SUBMITTED TO THE ENVIRONMENTAL STUDIES OFFICE FOR REVIEW AND SHALL OBTAIN WRITTEN APPROVAL BEFORE ANY WORK CAN BEGIN.

4. THE PURPOSE OF THIS CONTRACT IS TO RUBBER MODIFIED FOG SEAL OR SAND SEAL EXISTING ROADS AND/OR STREETS LOCATED WITHIN THE BOUNDARIES OF KENT COUNTY. 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 ADDITION OR DELETION OF LOCATIONS.

IN ALL CASES MAINTENANCE OF TRAFFIC WILL BE PAID FOR AT EACH AND EVERY LOCATION UNLESS THE ITEM IS DEEMED NOT NECESSARY AND IS NOT UTILIZED AT A PARTICULAR LOCATION OR UNLESS AS NOTED ON THE LOCATION SHEET.

5. THE DEPARTMENT RESERVES THE RIGHT TO PRIORITIZE, SUBSTITUTE, ADD, OR DELETE LOCATIONS AT ANY TIME DURING THE CONTRACT.

6. LOCATION LISTINGS INDICATE GENERAL LIMITS OF CONSTRUCTION, MAJOR TYPES OF IMPROVEMENTS, AND ESTIMATED QUANTITIES. 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.

7. LENGTH OF CONTRACT:

THE PERIOD OF THIS CONTRACT SHALL BE VALID FOR ONE (1) CALENDAR YEAR FROM THE "NOTICE TO PROCEED". THE CONTRACT MAY BE EXTENDED FOR TWO (2) ADDITIONAL, ONE-YEAR TERMS THROUGH NEGOTIATION BETWEEN THE CONTRACTOR AND THE DEPARTMENT OF TRANSPORTATION. NEGOTIATION SHOULD BE INITIATED NO LATER THAN NINETY (90) DAYS PRIOR TO THE TERMINATION OF THE CURRENT AGREEMENT.

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NOTE: THE ESTIMATED QUANTITIES SHOWN REPRESENT A THREE-YEAR PERIOD. 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.

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.

CONTRACT EXTENSION: THE DEPARTMENT RESERVES THE RIGHT TO REQUEST TO EXTEND THIS CONTRACT FOR TWO (2) ADDITIONAL ONE (1) YEAR EXTENSIONS AT THE ORIGINAL UNIT BID PRICES EXCEPT AS NOTED UNDER "PRICE ADJUSTMENT," BELOW. THE ONE YEAR EXTENSIONS MUST BE APPROVED BY BOTH PARTIES IN WRITING, AT LEAST 90 CALENDAR DAYS PRIOR TO EXPIRATION OF THE EXISTING CONTRACT.

PRICE ADJUSTMENTS: THE BID PRICES IN THE CONTRACT MUST BE GUARANTEED FOR THE FIRST CALENDAR YEAR OF THE CONTRACT, INCLUDING ALL WORK ORDERS SUBMITTED TO THE CONTRACTOR IN THE FIRST CALENDAR YEAR, EVEN IF THE WORK HAS NOT YET BEEN COMPLETED. IN FUTURE YEAR CONTRACT EXTENSIONS, THE CONTRACTOR MAY REQUEST AN INCREASE IN UNIT PRICES. THE CONTRACTOR WILL BE REQUIRED TO REQUEST ANY PRICE INCREASES PRIOR TO THE EXTENSION OF THE CONTRACT. ANY ADJUSTED PRICING, FOUND TO BE ACCEPTABLE BY THE DEPARTMENT, FOR THE CONTRACT EXTENSION SHALL BE VALID FOR THE PERIOD OF THE CONTRACT EXTENSION, INCLUDING ALL WORK ORDERS SUBMITTED TO THE CONTRACTOR IN THAT TIME FRAME, EVEN IF THE WORK HAS NOT YET BEEN COMPLETED. THIS PROCESS SHALL ALSO APPLY TO THIRD YEAR CONTRACT EXTENSIONS. IF THE PRICE ADJUSTMENT REQUESTED EXCEEDS THE CHANGE IN THE NATIONWIDE ALL ITEMS URBAN CONSUMER PRICE INDEX (CPI-U), U.S. CITY AVERAGE FOR THE SAME PERIOD, APPROVAL OF ANY PRICE ADJUSTMENT REQUESTED BY THE CONTRACTOR 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 AN ACCEPTABLE AGREEMENT CANNOT BE REACHED WITH THE CONTRACTOR ON THE PRICE ADJUSTMENT. THIS CONTRACT MAY BE EXTENDED FOR SUCH PERIOD, QUANTITIES, AND TIME, AS IS MUTUALLY AGREEABLE BETWEEN BOTH PARTIES.

THE CPI-U IS CALCULATED AS FOLLOWS:

- CURRENT CPI-U MINUS CPI-U AT PURCHASE ORDER DATE = CPI-U DIFFERENCE
- DIVIDE THE CPI-U DIFFERENCE BY CPI-U AT PURCHASE ORDER DATE = CPI-U FACTOR
- MOVING THE FACTOR DECIMAL POINT OVER TWO (2) SPACES GIVES YOU THE PERCENT (%) INCREASE FOR THE TIME PERIOD AND MAXIMUM ALLOWABLE PERCENTAGE INCREASE FOR THAT ITEM.

EXAMPLE: 242.839 -236.916 = 5.923 (DIFFERENCE)
 5.923 / 236.916 = .025000422 (FACTOR)
 2.50% CPI-U FOR THAT PERIOD

THE PERFORMANCE BOND SHALL BE SUBMITTED WITH THE CONTRACT EXECUTION AND SHALL BE SUBJECT TO ANY SUCH AGREED UPON RENEWAL FOR EXTENSION PERIODS. INITIAL EXPENSE SHALL ONLY BE PAID

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ONCE AND SHALL NOT BE PAID A SECOND (OR THIRD) TIME UPON AN EXTENSION OF THE CONTRACT. ANY ADDITIONAL EXPENSES RELATED TO THE EXTENSION OF THE CONTRACT MUST BE DOCUMENTED AND SHALL BE AGREED TO PRIOR TO THE CONTRACT EXTENSION.

8. 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.

9. THE CONTRACTOR SHALL SUBMIT THE REQUIRED COPIES OF A DETAILED PROGRESS SCHEDULE (PSC) AS OUTLINED IN STANDARD SPECIFICATION 108.04 PRIOR TO BEGINNING WORK ON A WORK ORDER GROUP. 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 A TWO-WEEK (OR AS REQUIRED) "LOOK AHEAD" SCHEDULE 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.

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 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.

THE COST TO PREPARE AND UPDATE THE "MONTHLY PAYMENT CHART" SHALL BE INCLUDED IN THE UNIT PRICE BID FOR ITEM 763000 – INITIAL EXPENSE.

MAINTENANCE OF TRAFFIC AND PAVEMENT MARKINGS

10. AT THE PRECONSTRUCTION MEETING, THE CONTRACTOR SHALL SUBMIT DETAILED DRAWINGS (INCLUDING BUT NOT LIMITED TO EXISTING STRIPING LENGTHS, LANE AND SHOULDER WIDTHS, TURN LANE LENGTHS, LOCATIONS OF STOP BARS, TURN ARROWS, CROSSWALKS AND RAILROAD CROSSINGS) THAT DEPICT THE EXISTING PAVEMENT MARKINGS FOR EACH PROJECT LOCATION. THESE DRAWINGS WILL BE REVIEWED BY THE DEPARTMENTS TRAFFIC SECTION TO DETERMINE IF ANY CHANGES TO THE FINAL PAVEMENT MARKINGS ARE REQUIRED. FINAL PAVEMENT MARKINGS SHALL CONFORM TO ALL EXISTING PATTERNS UNLESS OTHERWISE DIRECTED BY THE ENGINEER. THE FINAL PAVEMENT MARKINGS SHALL BE PLACED WITHIN FOURTEEN (14) CALENDAR DAYS AFTER THE PLACEMENT OF THE

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FINAL COURSE OF FOG SEAL OR SAND SEAL. FAILURE TO COMPLY WILL RESULT IN SUSPENSION OF ALL OTHER CONTRACT WORK WITH TIME CHARGES CONTINUING TO BE ASSESSED.

THE DEPARTMENT WILL PROVIDE A STRIPING LAYOUT AT LOCATIONS WHERE NO PAVEMENT MARKINGS PREVIOUSLY EXISTED. IF DEPARTMENT FORCES MUST PROVIDE A STRIPING LAYOUT ON LOCATIONS WHERE MARKINGS PREVIOUSLY EXISTED, THEN THE CONTRACTOR SHALL REIMBURSE THE DEPARTMENT FOR 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. ALL DOUBLE YELLOW CENTERLINES SHALL BE PLACED IN A 5-5-5 CONFIGURATION. (2 EACH, 5" YELLOW STRIPES WITH A 5" GAP IN BETWEEN.

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 OF THE ROADWAY TO TRAFFIC.

11. 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 AS DIRECTED BY THE ENGINEER. 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.

12. 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. TEMPORARY PAVEMENT STRIPING MUST MATCH PERMANENT PAVEMENT STRIPING IN ALL REGARDS. TEMPORARY PAVEMENT MARKINGS SHALL BE PAID AT THE APPLICABLE CONTRACT UNIT PRICE. THE CONTRACTOR IS RESPONSIBLE FOR MAINTAINING THE TEMPORARY MARKINGS IN GOOD CONDITION SUCH THAT THE PAVEMENT IS PROPERLY DELINEATED AT ALL TIMES. ANY REFRESHING OF THE TEMPORARY MARKINGS WILL BE AT THE CONTRACTORS EXPENSE.

13. 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.

14. ALL TEMPORARY TRAFFIC CONTROL DEVICES USED ON ALL HIGHWAYS OPEN TO THE PUBLIC IN THIS STATE SHALL CONFORM TO THE REQUIREMENTS OF THE DELAWARE MUTCD AND THE NATIONAL COOPERATIVE HIGHWAY RESEARCH PROGRAM (NCHRP) REPORT 350 AND/OR MASH AS DEFINED IN SECTION 6A OF THE DELAWARE MUTCD. THE CONTRACTOR SHALL SUBMIT CERTIFICATION FOR TRAFFIC CONTROL DEVICES USED SPECIFICALLY ON THIS PROJECT PRIOR TO THE PRECONSTRUCTION MEETING. THE DEVICES SHALL BE APPROVED BY THE DISTRICT SAFETY OFFICER PRIOR TO USE AND SHALL BE MAINTAINED IN GOOD CONDITION FOR THE DURATION OF THE CONTRACT.

15. THE CONTRACTOR SHALL SUBMIT A TRAFFIC CONTROL PLAN, INCLUDING THE NECESSARY NCHRP 350 AND/OR MASH CERTIFICATIONS FOR ALL DEVICES THAT WILL BE UTILIZED INCLUDING DEVICES

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UTILIZED BY SUBCONTRACTORS, FOR EACH TRAFFIC CONTROL CASE ANTICIPATED BEFORE THE START OF THE PRE-CONSTRUCTION MEETING. WRITTEN APPROVAL MUST BE RECEIVED BEFORE THE START OF WORK AT EACH AND EVERY LOCATION.

AN ADDITIONAL PLAN DETAILING THE NUMBER OF ANTICIPATED FLAGGERS AND THEIR PROPOSED LOCATIONS MUST BE SUBMITTED TO AND APPROVED BY THE ENGINEER PRIOR TO BEGINNING WORK AT EACH LOCATION.

16. THE CONTRACTOR SHALL MAINTAIN ACCESS TO AND ALONG PEDESTRIAN FACILITIES AT ALL TIMES DURING CONSTRUCTION. EARTH, STONE, AND GRAVEL SURFACES ARE NOT ACCEPTABLE FOR PROVIDING PEDESTRIAN ACCESS. WHERE PEDESTRIAN ROUTES ARE CLOSED OR BLOCKED, ALTERNATE PEDESTRIAN ACCESS SHALL BE PROVIDED USING (TA-29) OF THE DELAWARE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES OR TO THE SATISFACTION OF THE ENGINEER. PEDESTRIAN DETOUR ROUTES OR ALTERNATE PEDESTRIAN FACILITIES SHALL CONSIST OF ADA COMPLIANT FACILITIES TO THE LEVEL OF WHICH EXIST ON THE EXISTING PEDESTRIAN ROUTE. THE COSTS FOR ANY PROVISIONS SHALL BE INCIDENTAL TO ITEM 801500.

17. FOG SEAL OR SAND SEAL OPERATIONS WILL BE SUBJECT TO TRAFFIC SAFETY APPROVAL FOR DATES AND TIMES.

PROJECT

18. UNLESS SPECIFIED, FOG SEAL AND SAND SEAL WIDTHS SHALL MATCH EXISTING WIDTHS.

19. THE CONTRACTOR'S ATTENTION IS DIRECTED TO SECTION 105.09 UTILITIES, DELAWARE STANDARD SPECIFICATIONS, AUGUST 2016. THE CONTRACTOR SHALL CONTACT MISS UTILITY (1-800-282-8555) TWO WORKING DAYS PRIOR TO ANY EXCAVATION. THE CONTRACTOR IS RESPONSIBLE FOR THE SUPPORT AND PROTECTION OF ALL UTILITIES WHEN EXCAVATING. THE CONTRACTOR IS RESPONSIBLE FOR ENSURING PROPER CLEARANCES, INCLUDING SAFELY CLEARANCES, FROM OVERHEAD UTILITIES FOR CONSTRUCTION EQUIPMENT. THE CONTRACTOR IS ADVISED TO CHECK THE SITE FOR ACCESS PURPOSES FOR HIS EQUIPMENT AND, IF NECESSARY, MAKE ARRANGEMENTS DIRECTLY WITH THE UTILITY COMPANIES FOR FIELD ADJUSTMENTS FOR ADEQUATE CLEARANCES.

20. IT IS UNDERSTOOD AND AGREED THAT THE CONTRACTOR HAS CONSIDERED IN HIS BID ALL PERMANENT AND TEMPORARY UTILITY APPURTENANCES IN THEIR PRESENT AND RELOCATED POSITIONS AS SHOWN ON THE PLANS OR DESCRIBED IN THE UTILITY STATEMENT OR ARE READILY DISCERNIBLE AND THAT NO ADDITIONAL COMPENSATION WILL BE ALLOWED FOR ANY DELAYS, INCONVENIENCE, OR DAMAGE DUE TO ANY INTERFERENCE FROM THE UTILITY FACILITIES AND APPURTENANCES OR THE OPERATION OF MOVING THEM, EXCEPT THAT THE CONTRACTOR MAY BE GRANTED AN EQUITABLE EXTENSION OF TIME.

21. COORDINATION AND COOPERATION AMONG THE UTILITY COMPANIES AND THE STATE'S CONTRACTOR ARE OF PRIME IMPORTANCE. THEREFORE, THE CONTRACTOR IS DIRECTED TO CONTACT THE FOLLOWING UTILITY COMPANY REPRESENTATIVES WITH ANY QUESTIONS REGARDING THIS WORK PRIOR TO SUBMITTING BIDS AND WORK SCHEDULES. PROPOSED WORK SCHEDULES SHOULD REFLECT THE UTILITY COMPANIES' PROPOSED RELOCATIONS. THE UTILITY COMPANIES DO NOT WORK ON WEEKENDS OR LEGAL HOLIDAYS.

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22. EQUIPMENT CALIBRATION – A CALIBRATION STRIP FOR SECTION 401 ITEMS SHALL BE APPLIED AT THE LOCATION TO BE DESIGNATED BY THE DEPARTMENT. THE APPROVED DISTRIBUTOR TRUCK SHALL BE TESTED TO CONFIRM THE DISTRIBUTION RATE OF THE FOG SEAL MEETS THE VEHICLES DOCUMENTED CALIBRATION. BASED ON THIS FIELD TESTING, THE CONTRACTOR AND THE ENGINEER SHALL FORMALLY AGREE ON ANY CORRECTIONS THAT SHALL APPLY FOR THAT PARTICULAR VEHICLE. IF MULTIPLE VEHICLES ARE TO BE UTILIZED, THEN TESTING SHALL BE APPLIED TO THE ADDITIONAL VEHICLES AS WELL. THE COST OF CALIBRATING THE EQUIPMENT IS INCIDENTAL TO PAY ITEMS 401500, 401756 AND 401758.

23. TESTING - ONE DAY PRIOR TO FOG SEAL APPLICATION, CALCULATE ITS RATE FOR EACH LOCATION SEPARATELY OR AS NECESSARY, USING THE FOLLOWING PROCEDURE:

TO ESTIMATE THE APPLICATION RATE, TAKE A ONE-GALLON CAN OF DILUTED EMULSION (1:1 DILUTION RATE) AND POUR EVENLY OVER AN AREA OF 10 SY. THIS REPRESENTS A DILUTED APPLICATION RATE OF 0.10 G/SY. IF THE EMULSION IS NOT ABSORBED INTO THE SURFACE AFTER 2-3 MINUTES, DECREASE THE APPLICATION RATE OF THE EMULSION AND APPLY TO A NEW 10 SY AREA AND REPEAT UNTIL THE APPROXIMATE APPLICATION RATE IS FOUND. IF, AFTER THE FIRST TEST, THE SURFACE LOOKS LIKE IT CAN ABSORB MORE EMULSION, INCREASE THE APPLICATION RATE OF THE EMULSION AND SPREAD IT OVER A NEW 10 SY AREA. REPEAT UNTIL THE APPROXIMATE APPLICATION RATE IS FOUND.

THE COST OF DETERMINING THE APPLICATION RATE IS INCIDENTAL TO PAY ITEMS 401500, 401756 AND 401758.

24. EXTREME CARE IS PERTINENT IN PREVENTING ANY FOG SEAL MATERIAL, OR ITS SPRAY OR MIST, FROM ADHERING TO CONCRETE, STRIPING, GRATES, OR ANY ELEMENTS ADJACENT, NEAR, OR WITHIN THE ASPHALT SHOULDERS. THE COST FOR ANY METHODS NECESSARY TO PREVENT THE MATERIAL FROM GETTING ON ANYTHING BUT THE ASPHALT SHOULDERS OR THE MATERIAL, TIME, AND LABOR IN REMOVING THE MATERIAL ANYWHERE THE ENGINEER INDICATES, IS INCIDENTAL TO PAY ITEMS 401500, 401756 AND 401758.

25. THE ROADWAY SURFACE SHALL BE CLEANED THOROUGHLY PRIOR TO APPLYING FOG SEAL OR SAND SEAL. VEGETATION SHALL BE REMOVED PRIOR TO SWEEPING WITH POWER BROOM FOLLOWED BY FINAL SWEEPING WITH APPROVED VACUUM TRUCK. ROADWAY PREPARATION SHALL BE DONE JUST PRIOR TO THE APPLICATION OF FOG OR SAND SEAL AND BE APPROVED BY THE ENGINEER. ROADWAY PREPARATION COSTS SHALL BE INCIDENTAL TO PAY ITEMS 401500, 401756 AND 401758.

26. FOG SEAL OR SAND SEAL SHALL **NOT** BE APPLIED IF RAIN OR HIGH WINDS ARE EMINENT. IN THE EVENT OF AN UNEXPECTED CHANGE IN WEATHER (I.E. RAIN SHOWERS), THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING AREAS WHERE FOG SEAL HAS NOT FULLY CURED AND PREVENTING WASHING OUT OF FOG SEAL FROM THE ROADWAY. THE CONTRACTOR SHALL SUBMIT AN ACTION PLAN FOR DEALING WITH UNEXPECTED WEATHER EVENTS AND INCLUDE A LIST OF EQUIPMENT OR MATERIALS TO BE USED. THE PLAN SHALL SUBMITTED TO THE ENGINEER FOR APPROVAL.

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LOCATION 1 (FOG SEAL, OPEN-END, CENTRAL DISTRICT, FY 19-21) FROM KENT COUNTY
TO
LENGTH
GENERAL IMPROVEMENTS
SURFACE TREATMENT

COMMENTS:

MATERIAL ESTIMATE FOR LOCATION 1

401500	FOG SEAL	55,000.00	GAL
401756	RUBBER MODIFIED FOG SEAL	110,000.00	GAL
401758	COAL SLAG	300,000.00	LB
810001	TEMPORARY WARNING SIGNS AND PLAQUES	3,010.00	EA-DY
811002	FLAGGER, KENT COUNTY, STATE	8,700.00	HOUR
811014	FLAGGER, KENT COUNTY, STATE, OVERTIME	815.00	HOUR
817002	PERMANENT PAVEMENT STRIPING, SYMBOL/LEGEND, ALKYD-THERMOPLASTIC	3,500.00	S.F.
817003	TEMPORARY MARKINGS, PAINT, 4"	100,000.00	L.F.
817004	TEMPORARY MARKINGS, PAINT, SYMBOL/LEGEND	600.00	S.F.
817005	PERMANENT PAVEMENT STRIPING, ALKYD-THERMOPLASTIC, 5"	8,600.00	L.F.
817006	PERMANENT PAVEMENT STRIPING, ALKYD-THERMOPLASTIC, 12"	8,600.00	L.F.
817013	PERMANENT PAVEMENT STRIPING, EPOXY RESIN PAINT, WHITE/YELLOW, 5"	6,000.00	L.F.
817015	PREFORMED RETROREFLECTIVE THERMOPLASTIC MARKINGS, BIKE SYMBOL	9.00	EACH

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CONTRACT QUANTITIES SUMMARY SHEET

401500	FOG SEAL	55,000.00	GAL
401756	RUBBER MODIFIED FOG SEAL	110,000.00	GAL
401758	COAL SLAG	300,000.00	LB
763000	INITIAL EXPENSE/DE-MOBILIZATION	LUMP	SUM
810001	TEMPORARY WARNING SIGNS AND PLAQUES	3,010.00	EA-DY
811002	FLAGGER, KENT COUNTY, STATE	8,700.00	HOUR
811014	FLAGGER, KENT COUNTY, STATE, OVERTIME	815.00	HOUR
817002	PERMANENT PAVEMENT STRIPING, SYMBOL/LEGEND, ALKYD-THERMOPLASTIC	3,500.00	S.F.
817003	TEMPORARY MARKINGS, PAINT, 4"	100,000.00	L.F.
817004	TEMPORARY MARKINGS, PAINT, SYMBOL/LEGEND	600.00	S.F.
817005	PERMANENT PAVEMENT STRIPING, ALKYD-THERMOPLASTIC, 5"	8,600.00	L.F.
817006	PERMANENT PAVEMENT STRIPING, ALKYD-THERMOPLASTIC, 12"	8,600.00	L.F.
817013	PERMANENT PAVEMENT STRIPING, EPOXY RESIN PAINT, WHITE/YELLOW, 5"	6,000.00	L.F.
817015	PREFORMED RETROREFLECTIVE THERMOPLASTIC MARKINGS, BIKE SYMBOL	9.00	EACH