

THE STATE OF DELAWARE



DEPARTMENT OF TRANSPORTATION
MAINTENANCE AND OPERATIONS
CONSTRUCTION PLANS AND SPECIFICATIONS FOR
CTF PROJECTS CENTRAL, FY19-21, OPEN END

CONTRACT NUMBER - T201903201.01

PRIMAVERA ID - 19-34410

FEDERAL AID NUMBER - NONE

COUNTY: KENT

PLANS PREPARED BY:

Edwin Robles

DESIGNER

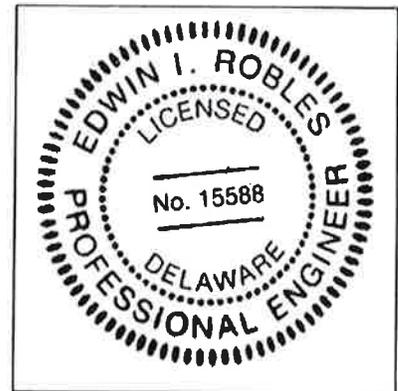
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DELDOT - CE IV/PROJECT MANAGER
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10/5/18

DATE



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

APPROVED FOR ADVERTISEMENT

M. R. Oefele

DIRECTOR OF MAINTENANCE AND OPERATIONS

10/9/18

DATE

DEPARTMENT OF TRANSPORTATION

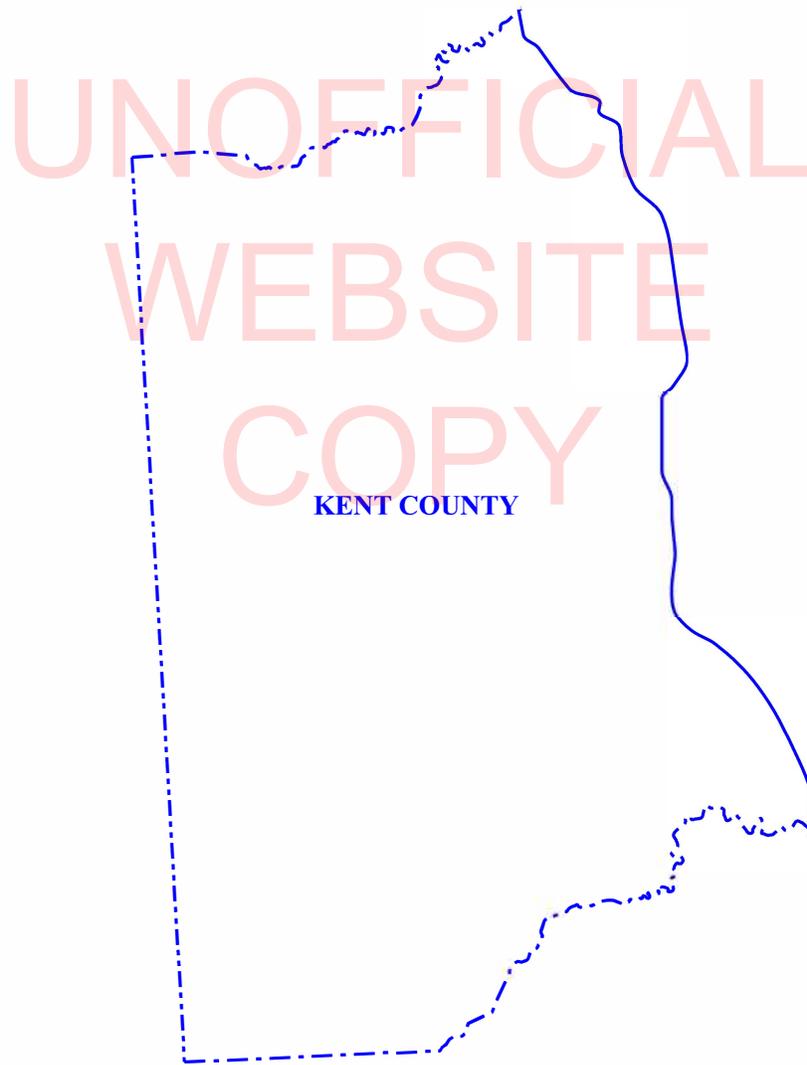
CONTRACT NO. T201903201

CENTRAL MAINTENANCE

PAGE 2 OF 20

CTF PROJECTS CENTRAL, FY 19-21, OPEN END

LOCATION MAP



DEPARTMENT OF TRANSPORTATION

CONTRACT NO. T201903201

CENTRAL MAINTENANCE

PAGE 3 OF 20

CTF PROJECTS CENTRAL, FY19-21, OPEN END

NOTES

THE NOTES CONTAIN FIVE SECTION HEADINGS: GENERAL, MAINTENANCE OF TRAFFIC AND PAVEMENT MARKINGS, PROJECT SPECIFICS, PROJECT TIMING, AND PAY ITEMS' PARAMETERS.

GENERAL

1. CONSTRUCTION OF THIS CONTRACT SHALL CONFORM TO THE 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 IS WORK-ORDER DRIVEN CONTRACT WITH NO KNOWN LOCATIONS. THEREFORE, THIS CONTRACT ENTIRELY IDENTIFIES OPEN-END LOCATIONS FOR THE GENERAL PURPOSE TO IMPROVE ROADS AND/OR STREETS, DRAINAGE, SIDEWALKS, AND CURBS LOCATED WITHIN THE BOUNDARIES OF KENT COUNTY. THE WORK SHALL BE AS THE ENGINEER OR REPRESENTATIVE REQUIRES OR DIRECTS VIA INDIVIDUAL WORK-ORDERS. SUBSECTION 104.06 WILL NOT APPLY TO THIS CONTRACT.

DEPENDING ON FUND AVAILABILITY, THE DEPARTMENT RESERVES THE RIGHT TO PRIORITIZE, SUBSTITUTE, ADD, OR DELETE LOCATIONS AND/OR QUANTITIES AT ANY TIME DURING THIS CONTRACT. SUCH LOCATION OR QUANTITY ADDITIONS OR DELETIONS SHALL NOT BE CAUSE FOR AN INCREASE OR DECREASE IN ANY CONTRACT UNIT BID PRICES. THE CONTRACTOR CANNOT RENEGOTIATE ANY ITEM PRICES DUE TO EITHER AN INCREASE OR DECREASE IN QUANTITY USAGE RESULTING FROM ADDITION OR DELETION OF LOCATIONS DURING THE FIRST TWO YEARS.

3. 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.

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.

4. PRICE ADJUSTMENT:

UPON EXPIRATION OF THE INITIAL CONTRACT TERM, EACH ONE-YEAR CONTRACT EXTENSION MAY ADJUST PRICING BY MUTUAL WRITTEN AGREEMENT. THE PRICING MUST COVER THE FULL TERM OF THE CONTRACT EXTENSION PERIOD. IF THE PRICE DIFFERENCE FOR ANY EXTENSION PERIOD EXCEEDS THE PREVIOUS ONE YEAR PERIOD, APPROVAL OF THE PRICE ADJUSTMENT SHALL BE AT THE DISCRETION OF THE DEPARTMENT. THE DEPARTMENT RETAINS THE RIGHT TO REJECT A REQUEST FOR FUTURE YEAR EXTENSIONS AT ANY TIME.

DEPARTMENT OF TRANSPORTATION

CONTRACT NO. T201903201

CENTRAL MAINTENANCE

PAGE 4 OF 20

CTF PROJECTS CENTRAL, FY19-21, OPEN END

NOTES

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.

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 TO THE RIGHT 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)
 4.72% CPI-U FOR THAT PERIOD

5. PERFORMANCE AND PROGRESS OF WORK:

THE DEPARTMENT'S CENTRAL DISTRICT WILL GENERATE THE WORK AND ISSUE THE WORK-ORDERS THAT THE CONTRACTOR IS TO PERFORM UNDER THIS CONTRACT.

EXECUTION OF EACH WORK-ORDER IS TO BEGIN WITHIN TWENTY-ONE (21) CALENDAR DAYS OF THE DISTRICT'S ISSUANCE TO THE CONTRACTOR. IN ADDITION, THE CONTRACTOR MUST COMPLETE THE WORK WITHIN THE TIME FRAME THAT THE WORK-ORDER ALLOCATES, UNLESS THE NECESSARY MATERIALS ARE NOT AVAILABLE. THE CONTRACTOR SHALL VERIFY THE MATERIAL'S NON-AVAILABILITY BY AT LEAST THREE (3) INDEPENDENT SOURCES. AFTER WHICH, THE CONTRACTOR SHALL PROVIDE THE DEPARTMENT WITH THE VERIFICATION FORMALLY PRESENTED IN WRITING WITHIN FOUR (4) DAYS OF THE WORK-ORDER ISSUANCE.

IF THE CONTRACTOR DOES NOT COMMENCE THE WORK OR DOES NOT PRESENT THE NON-AVAILABILITY OF MATERIALS WITHIN THE ALLOTTED TIME, TIME CHARGES EQUAL TO LIQUIDATED DAMAGES FOR THE WORK-ORDER SHALL COMMENCE. IF THE CONTRACTOR VERIFIES WITH THE DEPARTMENT THAT NON-AVAILABILITY OF MATERIALS IS THE SITUATION, TIME CHARGES SHALL COMMENCE ON THE FIFTEENTH (15) CALENDAR DAY FOLLOWING THE DELIVERY DATE.

DEPARTMENT OF TRANSPORTATION

CONTRACT NO. T201903201

CENTRAL MAINTENANCE

PAGE 5 OF 20

CTF PROJECTS CENTRAL, FY19-21, OPEN END

NOTES

SHOULD THE CONTRACTOR FAIL TO COMPLETE A WORK-ORDER IN THE SPECIFIED TIME, THIS SHALL CONSTITUTE THE "FAILURE TO PURSUE THE WORK" AND SUBJECTS THE CONTRACTOR TO LIQUIDATED DAMAGES AS OUTLINED IN SUBSECTION 108.08 OF THE STANDARD SPECIFICATIONS. THE CONTRACTOR IS TO COMPLETE EACH WORK-ORDER (OR GROUP OF WORK-ORDERS) WITHIN THE SPECIFIED TIME. AT THE DISCRETION OF THE ENGINEER, THE DISTRICT MAY ADD ADDITIONAL ITEMS AND/OR DAYS TO ANY WORK-ORDER AS NECESSARY. IF THE CONTRACTOR DOES NOT COMPLETE THE WORK ON A SPECIFIC WORK-ORDER ON TIME, THE DISTRICT WILL ASSESS LIQUIDATED DAMAGES IN ACCORDANCE WITH SUBSECTION 108.09 OF THE STANDARD SPECIFICATIONS, WHICH BASES THIS AMOUNT ON THE TOTAL VALUE OF THAT PARTICULAR WORK-ORDER OR WORK-ORDER GROUP, WHICHEVER IS APPLICABLE.

THE DISTRICT WILL PERFORM A SEMI-FINAL INSPECTION FOR EACH WORK-ORDER OR WORK-ORDER GROUP AFTER THE CONTRACTOR PROVIDES THE DEPARTMENT WITH COPIES OF THE COMPLETE WORK-ORDERS. THE CONTRACTOR'S WORK MUST MEET THE DEPARTMENT'S SPECIFICATIONS AND THE REQUIREMENTS AS THESE NOTES DEFINE. THE CONTRACTOR MUST COMPLETE ANY PUNCHLIST WORK WITHIN THIRTY (30) CALENDAR DAYS OF THE EACH SEMI-FINAL INSPECTION, UNLESS THE ENGINEER APPROVES OTHERWISE.

THE CONTRACTOR'S WORK IS SUBJECT TO A FINAL INSPECTION UPON CONTRACT COMPLETION. THE CONTRACTOR WILL HAVE FORTY-FIVE (45) DAYS TO COMPLETE ALL PUNCHLIST WORK FROM THE FINAL INSPECTION DATE, UNLESS THE ENGINEER APPROVES OTHERWISE.

6. THIS CONTRACT INDICATES THE GENERAL LIMITS OF CONSTRUCTION, MAJOR TYPES OF IMPROVEMENTS, AND ESTIMATED QUANTITIES. DURING THE BIDDING PERIOD, THE CONTRACTOR SHALL ADDRESS ANY QUESTIONS PERTAINING TO THIS CONTRACT TO THE CONTRACT ADMINISTRATOR. AFTER THE AWARD, THE CONTRACTOR SHALL REFER SUCH QUESTIONS TO THE APPROPRIATE DISTRICT ENGINEER OR REPRESENTATIVE.

7. WHEN THE DISTRICT ADDS SPECIFIC LOCATIONS TO THE CONTRACT, THE CONTRACTOR SHALL SUBMIT THE NECESSARY COPIES OF A DETAILED PROGRESS SCHEDULE (PSC) PER STANDARD SPECIFICATION 108.04 WITHIN 14 CALENDAR DAYS. THE PSC SHALL INCLUDE A DESCRIPTION OF EACH WORK ACTIVITY, THE DAYS THE CONTRACTOR PLANS TO WORK, INDICATE MULTIPLE CREWS OR SHIFTS, AND WORKING HOURS DURATION. DURING EACH WORK-ORDER, THE CONTRACTOR SHALL SUBMIT TWO-WEEK (OR AS THE DISTRICT REQUIRES) "LOOK AHEAD" SCHEDULES TO THE AREA ENGINEER/REPRESENTATIVE NO LATER THAN NOON OF EACH TUESDAY. FAILURE TO COMPLY WILL RESULT IN A SUSPENSION OF CURRENT AND FUTURE CONTRACT WORK; HOWEVER, THE CONTRACTOR WILL CONTINUE TO INCUR TIME CHARGES.

8. THE CONTRACTOR SHALL PROVIDE ALL RESIDENTS WHO LIVE ADJACENT TO THE WORK ZONE WITH A MINIMUM 48-HOUR PRIOR WRITTEN NOTICE FOR THE START OF CONSTRUCTION WORK. THIS NOTIFICATION SHALL INCLUDE THE SCOPE OF WORK, LOCATION LIMITS, WORKING HOURS, ANTICIPATED START AND COMPLETION DATES, CONTRACTOR NAME & ADDRESS, AND DELDOT COMMUNITY RELATIONS' CONTACT NUMBER 1-800-652-5600. FAILURE TO GIVE PROPER NOTICE WILL RESULT IN A SUSPENSION OF WORK REQUIRING NOTICE, UNTIL THE CONTRACTOR PROVIDES THE PROPER NOTICE. THE CONTRACTOR WILL RECEIVE THE REQUIRED NOTICE AT THE PRECONSTRUCTION MEETING. CONTRACTOR CANNOT PLACE THE NOTICES IN MAILBOXES. IF THE CONTRACTOR PLACES A SINGLE NOTIFICATION AT A SUBDIVISION ENTRANCE, THE SIGN MUST BE CLEAR TO INDICATE IF THE WORK DOES NOT INCLUDE THE ENTIRE DEVELOPMENT.

DEPARTMENT OF TRANSPORTATION

CONTRACT NO. T201903201

CENTRAL MAINTENANCE

PAGE 6 OF 20

CTF PROJECTS CENTRAL, FY19-21, OPEN END

NOTES

9. SEE BELOW

MAINTENANCE OF TRAFFIC AND PAVEMENT MARKINGS

10. THE CONTRACTOR SHALL SUBMIT, A MINIMUM OF TWO WEEKS PRIOR OF THE START OF WORK AT EACH LOCATION, DRAWINGS IN DETAIL (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. FINAL PAVEMENT MARKINGS SHALL CONFORM TO ALL EXISTING PATTERNS UNLESS THE ENGINEER DIRECTS OTHERWISE. THE CONTRACTOR SHALL PLACE THE FINAL PAVEMENT MARKINGS WITHIN FIVE (5) CALENDAR DAYS AFTER THE PLACEMENT OF THE FINAL COURSE OF BITUMINOUS PAVEMENT. FAILURE TO COMPLY WILL RESULT IN SUSPENSION OF ALL OTHER CONTRACT WORK; HOWEVER, THE CONTRACTOR WILL CONTINUE TO INCUR TIME CHARGES. THE DEPARTMENT WILL PROVIDE THE STRIPING LAYOUT AT LOCATIONS WHERE NO PAVEMENT MARKINGS PREVIOUSLY EXIST. IF THE DEPARTMENT FORCES PROVIDE THE STRIPING LAYOUT ON LOCATIONS WHERE MARKINGS PREVIOUSLY EXISTED, THEN THE CONTRACTOR SHALL REIMBURSE THE DEPARTMENT FOR THE LAYOUT COSTS. UNLESS THE ENGINEER DIRECTS OTHERWISE, 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 DISTRICT SHALL REQUIRE THE CONTRACTOR TO SHOW PROOF THAT THERE IS SUFFICIENT APPROVED STRIPING MATERIALS ON HAND TO ENSURE THE CONTRACTOR COMPLETES THE STRIPING PRIOR TO OPENING THE ROADWAY FULLY TO TRAFFIC.

11. THE CONTRACTOR SHALL SUBMIT THE NECESSARY NCHRP 350 AND/OR MASH CERTIFICATIONS FOR ALL DEVICES. THE SUBMITTAL MUST CONTAIN THE CLEAR IDENTIFICATION OF ALL APPLICABLE DEVICES AND INFORMATION AS TO EXACTLY WHAT THE CONTRACTOR WILL USE. THE CONTRACTOR MUST SUBMIT A TEMPORARY TRAFFIC CONTROL PLAN FOR EACH WORK ORDER LOCATION. THE CONTRACTOR MUST RECEIVE WRITTEN APPROVAL BEFORE THE START OF WORK AT EACH LOCATION. THE ENGINEER AND DISTRICT SAFETY OFFICER WILL DETERMINE THE TIME RESTRICTIONS FOR EACH LOCATION. TRAFFIC SAFETY OFFICER REQUIRES A TWO-WEEK LEAD TIME PRIOR TO THE START OF WORK AT EACH LOCATION FOR TEMPORARY TRAFFIC CONTROL PLAN AND TIME RESTRICTION REVIEW.

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

13. THE DEPARTMENT WILL NOT PAY FOR ANY ERRONEOUS MARKINGS. THE CONTRACTOR SHALL IMMEDIATELY CORRECT APPLICABLE MARKINGS AT THE CONTRACTOR'S EXPENSE. THE CONTRACTOR SHALL REMOVE ERRONEOUS MARKINGS OR SHADOWS THAT EXCEED ONE (1) INCH IN WIDTH BY SAND-OR WATER-BLASTING. THE ENGINEER SHALL APPROVE ANY STRIPING REMOVAL OR CORRECTION METHODS. THE CONTRACTOR SHALL APPLY A FLAT BLACK PAINT OR DRIVEWAY SEALER 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 OR REPLACED TO THE SATISFACTION OF THE ENGINEER AT THE CONTRACTOR'S EXPENSE.

DEPARTMENT OF TRANSPORTATION

CONTRACT NO. T201903201

CENTRAL MAINTENANCE

PAGE 7 OF 20

CTF PROJECTS CENTRAL, FY19-21, OPEN END

NOTES

14. PER THE LATEST VERSION OF THE PERMANENT MARKING SECTION OF THE TRAFFIC CONTROL MANUAL, THE CONTRACTOR SHALL UTILIZE TEMPORARY STRIPING AT LOCATIONS THAT REQUIRE PERMANENT STRIPING, AT THE END OF EACH DAY'S OPERATION, AND PRIOR TO THE REMOVING THE ROAD RESTRICTIONS. CONTRACTOR WILL RECEIVE PAYMENT FOR TEMPORARY PAVMENT MARKINGS AT THE APPLICABLE CONTRACT UNIT PRICE.

15. THE CONTRACTOR SHALL PLACE INTERNATIONAL CROSSWALK SYMBOLS AT ALL EXISTING CROSSWALK LOCATIONS OR OTHER LOCATIONS AS THE ENGINEER DIRECTS. PAYMENT WILL BE PER THE APPLICABLE STRIPING ITEMS.

16. 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 *AMERICAN WITH DISABILITIES ACT OF 1990* (ADA) TITLE II, PARAGRAPH 35.130 AND ANY REVISIONS.

THE CONTRACTOR SHALL TAKE INTO ACCOUNT THE FOLLOWING CONSIDERATIONS WHEN ADDRESSING ACCESSIBLE PEDESTRIAN MAINTENANCE OF TRAFFIC:

- PROVIDE ALL PEDESTRIANS, INCLUDING PERSONS WITH DISABILITIES, WITH A REASONABLY SAFE, CONVENIENT AND ACCESSIBLE PATH THAT REPLICATES AS MUCH AS PRACTICABLE THE EXISTING PEDESTRIAN FACILITIES.
- MAINTAIN ACCESS TO ALL BUSINESSES AND RESIDENCES AT ALL TIMES.
- PROVIDE PEDESTRIAN ACCESS THROUGH OR AROUND THE WORK ZONE. IF THE ENGINEER CHOOSES A DETOUR, THE CONTRACTOR MUST SUBMIT THE DETOUR ROUTE TO THE ENGINEER FOR REVIEW AND APPROVAL. THE DETOUR ROUTE MUST MEET OR EXCEED THE CURRENT CONDITIONS.
- PHASE THE WORK SO THAT ALL INTERSECTION/SIDEWALK PATH AREAS 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.
- DO NOT MOUNT SIGNS AND OTHER DEVICES LOWER THAN 7 FT ABOVE THE TEMPORARY PEDESTRIAN PATHWAY AND SHALL NOT PROJECT MORE THAN 4 INCHES INTO ACCESSIBLE PEDESTRIAN ROUTE.
- PROVIDE A SMOOTH, CONTINUOUS HARD SURFACE THROUGHOUT THE ENTIRE LENGTH AND WIDTH OF THE PEDESTRIAN ROUTE THROUGHOUT CONSTRUCTION. NO CURBS OR VERTICAL ELEVATION CHANGES SHALL BE GREATER THAN 1/4-INCH IN GRADE OR TERRAIN THAT COULD CAUSE TRIPPING OR BE A BARRIER TO WHEELCHAIR USE.

PROJECT SPECIFICS

17. A REMINDER TO THE CONTRACTOR THAT SECTION 105.07 OF THE STANDARD SPECIFICATIONS REQUIRES THE GENERAL CONTRACTOR TO HAVE A COMPETENT SUPERINTENDENT OR SUPERVISOR ON THE PROJECT AT ALL TIMES. IF THE ENGINEER OR REPRESENTATIVE FINDS THIS NOT TO BE SO, THE CONTRACTOR IS TO REPLACE THE SUPERINTENDENT OR SUPERVISOR IMMEDIATELY OR RISK PROJECT SUSPENSION.

DEPARTMENT OF TRANSPORTATION

CONTRACT NO. T201903201

CENTRAL MAINTENANCE

PAGE 8 OF 20

CTF PROJECTS CENTRAL, FY19-21, OPEN END

NOTES

18. ROADS, WHICH INCLUDE CROSSROAD PIPE WORK, MUST REMAIN OPEN TO ONE-LANE OF TRAFFIC AT ALL TIMES.

19. AN APPROVED PRODUCTION PLANT MUST PROVIDE THE CONTRACTOR WITH ALL PORTLAND CEMENT CONCRETE, UNLESS THE ENGINEER APPROVES OTHERWISE. CONCRETE TRUCKS MUST ONLY USE VOLUMETRIC CALIBRATION TO PROVIDE ON-SITE MIXTURES. THIS REQUIREMENT PERTAINS TO BOTH WORK OCCURRING DURING NORMAL WORK HOURS AND NIGHTTIME WORK RESTRICTIONS.

20. UNLESS SPECIFIED, PAVING OVERLAY WIDTHS SHALL MATCH EXISTING WIDTHS.

21. THE ENGINEER OR REPRESENTATIVE MUST DEEM ALL PREPARATION, INCLUDING VEGETATION REMOVAL, AS SATISFACTORY PRIOR TO THE CONTRACTOR CONTINUING WITH THE WORK.

22. IN LOCATIONS WHERE ANY SPECIFIC BITUMINOUS PAVEMENT PATCH EXCEEDS 25 LINEAL FEET (4-FOOT MINIMUM WIDTH), THE CONTRACTOR SHALL MILL THE EXISTING MATERIAL.

23. THE CONTRACTOR SHALL PLACE *BUTT JOINTS* AT ALL INTERSECTING SUPERPAVE ROADS AND ANY OTHER LOCATIONS AS THE ENGINEER DIRECTS. BUTT JOINTS AT DRAINAGE STRUCTURES, NOT WITHIN THE RESURFACING SCOPE OF WORK, SHALL BE AS PER THE INCLUDED PLAN DETAIL OR LOCATION NOTES.

24. RAMP ALL TRANSVERSE VERTICAL DIFFERENCES, SUCH AS BUTT JOINTS CUT PRIOR TO THE DAY OF THE PAVEMENT OVERLAY, RAISED EDGES OF MANHOLES, CATCH BASINS, WATER VALVE BOXES, ETC. WITH BITUMINOUS PAVEMENT TRM AT A 20:1 OR FLATTER SLOPE PRIOR TO OPENING THE ROADWAY TO TRAFFIC. PAVEMENT MILLINGS ARE NOT ALLOWABLE FOR THIS PURPOSE.

25. *TAPER MILLING* IS INTENDED FOR MILLING IN THE AREA OF FIXED STRUCTURES (I.E. CURBS GUARDRAIL, ETC.) THE MILLED DEPTH AT THE STRUCTURE SHALL BE THE DEPTH OF THE PROPOSED OVERLAY AND 0" AT A DISTANCE OF +/- 6½' FROM THE STRUCTURE.

26. ALL MILLED MATERIAL SHALL REMAIN THE PROPERTY OF THE CONTRACTOR UNLESS OTHERWISE STATED.

27. WHEN CLEANING AFTER A MILLING OPERATION, THE CONTRACTOR SHALL TAKE CARE TO REMOVE PAVEMENT AROUND UTILITIES, BUTT JOINTS, CURBS, ETC., SO AS NOT TO DISTURB THE EXISTING PAVEMENT BEYOND THE SPECIFIED DEPTH. ANY DAMAGE THE CONTRACTOR'S OPERATION CAUSES MAY RESULT IN PLACING LEVELING COURSES AT THE CONTRACTOR'S EXPENSE.

28. REPLACE CATCH BASIN GRATES WITHIN THE LOCATION LIMITS THAT DO NOT COMPLY WITH THE STANDARD DETAIL FOR A TYPE 1 GRATE, I.E. DOES NOT HAVE 45 DEGREE SLOTS. THE ENGINEER SHALL DETERMINE THE ACTUAL LOCATIONS AND NEED FOR GRATE OR FRAME MODIFICATIONS.

29. THE CONTRACTOR WILL INSTALL STEPS IN CATCH BASINS THAT ARE 4-FOOT OR GREATER IN DEPTH AFTER THE ADJUSTMENTS OR REPAIRS IN ACCORDANCE WITH SECTION 602 OF THE STANDARD SPECIFICATIONS.

30. IF DITCH SLOPE ADJUSTMENTS ARE NECESSARY, THE ENGINEER WILL DETERMINE THE FINAL SLOPE AFTER UNDERGROUND UTILITY LOCATIONS ARE KNOWN.

DEPARTMENT OF TRANSPORTATION

CONTRACT NO. T201903201

CENTRAL MAINTENANCE

PAGE 9 OF 20

CTF PROJECTS CENTRAL, FY19-21, OPEN END

NOTES

31. THE CONTRACTOR IS RESPONSIBLE FOR RESOLVING ANY EXISTING UTILITY CONFLICTS WITH ENGINEER APPROVAL.

32. WHERE SIDEWALKS EXIST WITHIN THE LOCATION LIMITS, CURB RAMPS SHALL BE EITHER NEWLY INSTALLED OR RETROFITTED, AS THE ENGINEER DIRECTS, IN COMPLIANCE WITH THE MOST CURRENT DELAWARE STANDARD CONSTRUCTION DETAILS OR AS SHOWN ON THE PLANS. CONTRACTOR WILL RECEIVE THE PAYMENT UNDER THE APPROPRIATE *CURB RAMP* AND *DETECTABLE WARNING SYSTEM* ITEMS.

33. THE CONTRACTOR MAY USE ONE OR MORE OF THE FOLLOWING MATERIALS TO FILL SHOULDER AREAS ADJACENT TO NEW HOT MIX OVERLAYS: ITEMS 908003 - *TOPSOIL 4" DEPTH* OR 301003 - *GRADED AGGREGATE BASE COURSE, TYPE B*. THE UNIT PRICE SHALL INCLUDE FURNISHING, PLACEMENT, GRADING AND COMPACTING THE MATERIAL.

34. THE DEFINITION OF A BITUMINOUS PAVEMENT WEDGE COURSE IS WHEN THE CONTRACTOR PLACES BITUMINOUS PAVEMENT AT A VARIABLE WIDTH. THE TAPERED EDGE WILL BE A MINIMUM DISTANCE OF 2'-0" FROM THE CENTERLINE OF THE ROAD AND WITH A CROSS SECTION THAT STARTS AT 0" THICKNESS ON THE TAPERED EDGE AND ENDS AT A VARIABLE THICKNESS AT THE OTHER SIDE WITH THE INTENT OF PROVIDING A FINAL CROSS-SECTION WITH A 2 PERCENT SLOPE. THE ENGINEER DETERMINES WHERE TO PROVIDE THE WEDGE ON THE INDIVIDUAL ROAD CHARACTERISTICS ENCOUNTERED.

35. THE CONTRACTOR'S USE OF STEEL PLATES SHALL HAVE THE ENGINEER'S APPROVAL.

PROJECT TIMING

36. ALL UTILITY ACCESS ADJUSTMENTS SHALL BE MADE NO MORE THAN SEVEN (7) CALENDAR DAYS PRIOR TO OR AFTER THE PLACEMENT OF THE FINAL COURSE OF BITUMINOUS PAVEMENT UNLESS THE ENGINEER OTHERWISE APPROVES. FAILURE TO COMPLY WILL RESULT IN A SUSPENSION OF ALL OTHER CONTRACT WORK WITH THE DEPARTMENT CONTINUING TO ASSESS TIME CHARGES.

37. COMPLETE ALL PAVING, INCLUDING TURN LANES, SHOULDERS AND INTERSECTIONS, WITHIN SEVEN (7) CALENDAR DAYS OF EACH DAY'S MILLING OPERATION. FAILURE TO COMPLY WILL RESULT IN A SUSPENSION OF ALL OTHER CONTRACT WORK WITH THE DEPARTMENT CONTINUING TO ASSESS TIME CHARGES.

38. THE ENGINEER SHALL APPROVE ANY WORK THAT IS TO OCCUR ON SATURDAYS AND SUNDAYS, IN ADDITION TO HOLIDAYS AND SPECIAL EVENTS.

39. AT EACH CONTRACT LOCATION FOR P.C.C. CURBS, SIDEWALKS, OR VALLEY GUTTERS, COMPLETE WITHIN SEVEN (7) CALENDAR DAYS ANY RESTORATION, TOPSOIL, SEEDING, MULCH, AND REMOVAL OF ALL MATERIALS FOR CURB & GUTTER OR SIDEWALK; SEALING OF VALLEY GUTTERS AND PARGING OF CATCH BASINS. FAILURE TO COMPLY WILL RESULT IN A SUSPENSION OF ALL OTHER CONTRACT WORK WITH THE DEPARTMENT CONTINUING TO ASSESS TIME CHARGES.

PAY ITEMS' PARAMETERS

40. THE DEPARTMENT ANTICIPATES WORK FOR PAY ITEM 201000, *CLEARING AND GRUBBING*, TO BE A RANGE OF WORK TO REMOVE LOW VEGETATION TO FALLEN DOWN TREES AND LIMBS. THE BASIS FOR

DEPARTMENT OF TRANSPORTATION

CONTRACT NO. T201903201

CENTRAL MAINTENANCE

PAGE 10 OF 20

CTF PROJECTS CENTRAL, FY19-21, OPEN END

NOTES

THE LUMP SUM FORMULA IS A) 100 OPEN-END LOCATIONS FOR LOW VEGETATION, AND B) 5 LOCATIONS FOR FALLEN DOWN TREES AND LIMBS.

Z = TOTAL LUMP SUM

A = LOW VEGETATION PER LOCATION

B = FALLEN DOWN TREES AND LIMBS PER LOCATION

$$100 (A) + 5 (B) = Z$$

41. THE DEPARTMENT ANTICIPATES THE WORK FOR PAY ITEM 211000, *REMOVAL OF STRUCTURES AND OBSTRUCTIONS*, TO BE A RANGE OF 10 – 26 CY. THE BASIS FOR THE LUMP SUM FORMULA BID IS A) 20 OPEN-END LOCATIONS WITH A QUANTITY OF 0 - 0.5 CY, B) 10 OPEN-END LOCATIONS WITH A QUANTITY OF 0.5 – 1.0 CY, AND C) 2 OPEN-END LOCATIONS WITH A QUANTITY OF 1.0 – 3.0 CY.

Z = TOTAL LUMP SUM

A = 0 – 0.5 CY PER LOCATION

B = 0.5 – 1.0 CY PER LOCATION

C = 1.0 – 3.0 CY PER LOCATION

$$20 (A) + 10 (B) + 2 (C) = Z$$

42. THE COST OF CLIPPING THE ROAD EDGES BACK, PICKING UP AND DISPOSING OF EXCESS SOD AND SWEEPING, AND CLEANING EXISTING PAVEMENT PRIOR TO OVERLAY SHALL BE INCIDENTAL TO ALL ITEMS IN SECTION 401.

43. THE COST OF FINE GRADING, COMPACTING, AND PREPARING EXISTING SHOULDERS FOR PAVING SHALL BE INCIDENTAL TO ALL PAY ITEMS IN SECTION 401.

44. IF BITUMINOUS PAVEMENT IS PLACED WITHIN THE 2'-0" CLEARANCE OF EITHER SIDE OF THE ROADWAY CENTERLINE, AS SPECIFIED IN NOTE 34, THAN THAT WORK WILL BE DEEMED AS A BITUMINOUS PAVEMENT OVERLAY AND ALL OF THE TONNAGE UTILIZED FOR THE ENTIRE LOCATION WILL BE PAID UNDER ITEM 401005.

45. PAYMENT FOR ANY BITUMINOUS PAVEMENT, *WMA*, *SUPERPAVE*, WHICH CONSISTS OF AT LEAST A 200-FOOT STRAIGHT LINE PAVE REGARDLESS OF THE SPECIFIED WIDTH (4-FOOT MINIMUM) AND SHALL BE UNDER THE BID PRICE FOR THE RESPECTIVE SUPERPAVE PAVING ITEM 401005. THE PAYMENT FOR ANY PAVING, WHICH IS LESS THAN 200 LINEAL FEET, WILL BE UNDER THE UNIT PRICE BID FOR *WMA*, *SUPERPAVE*, *PATCHING* - EITHER 401029 or 401030.

46. PAYMENT FOR PATCHING MORE THAN 25 FEET WILL UTILIZE THE UNIT PRICE BID FOR THE APPLICABLE *PAVEMENT-MILLING* BITUMINOUS PAVEMENT ITEM. FOR BITUMINOUS PAVEMENT PATCHES OF 25 FEET OR LESS, PAYMENT FOR EXCAVATION SHALL BE MADE AT THE UNIT PRICE BID FOR *WMA*, *SUPERPAVE*, *PATCHING* ITEM 402000, REGARDLESS OF THE REMOVAL METHOD THE CONTRACTOR CHOOSES TO PERFORM THE WORK.

47. THE MATERIALS NECESSARY TO JOIN CORRUGATED STEEL PIPES TOGETHER IS INCIDENTAL TO PAY ITEMS THAT BEGIN WITH 601.

DEPARTMENT OF TRANSPORTATION

CONTRACT NO. T201903201

CENTRAL MAINTENANCE

PAGE 11 OF 20

CTF PROJECTS CENTRAL, FY19-21, OPEN END

NOTES

48. THE CONTRACTOR SHALL CONFORM TO THE REQUIREMENTS OF CLASS A CONCRETE, AS STATED WITHIN SECTION 503.02 OF THE DEPARTMENT'S STANDARD SPECIFICATIONS, FOR THE FOLLOWING PORTLAND CEMENT CONCRETE ITEMS: ITEM 602132 - *ADJUST AND REPAIR EXISTING MANHOLES*; ITEM 710002 - *ADJUST WATER VALVE BOX*; AND ITEM 602130 - *ADJUST EXISTING DRAINAGE INLET*.

49. PAYMENT TO INSTALL STEPS IN CATCH BASINS IN ACCORDANCE WITH SECTION 708 OF THE STANDARD SPECIFICATIONS SHALL BE INCIDENTAL TO THE UNIT PRICE BID FOR ITEM 602130.

50. EXCAVATION FOR P.C.C. CURBS, SIDEWALKS, OR VALLEY GUTTERS SHALL BE INCIDENTAL TO THE BID PRICE FOR THESE RESPECTIVE ITEMS:

- REMOVE EXCAVATED MATERIAL THAT IS NOT NECESSARY TO THE PROJECT FROM THE CONTRACT AT THE CONTRACTOR'S EXPENSE.
- USE ITEM 908003 OR 908005, *TOPSOIL*, AS BACKFILL MATERIAL FOR CURB AND SIDEWALK WHEN THE ENGINEER DIRECTS. SCREEN OR SIFT THE TOPSOIL, SO THE MATERIAL GREATER THAN 0.5" DOES NOT EXIST IN BACKFILL MATERIAL. BACKFILL IMMEDIATELY AFTER THE CONTRACTOR HAS REMOVED THE FORMS UPON COMPLETION OF THE CURB AND GUTTER.

51. THE LUMP SUM BID PRICE FOR *PLANTING* PAY ITEM 911000 WILL BE \$1,000. THE BASIS FOR PAYMENT FOR THIS ITEM WILL BE ON THE ACTUAL RECEIPTS FOR PLANTING MATERIALS, TIME, AND LABOR PROVIDED TO THE ENGINEER. THE PURCHASE MUST INCLUDE A ONE-YEAR REPLACEMENT WARRANTY. PROPERTY OWNER(S) WILL CHOOSE EACH TREE AND THE CONTRACTOR WILL CONFIRM THE COMPLETE SCOPE TO OCCUR AT OR UNDER BUDGET PRIOR TO TREE PURCHASE. IF CONTRACTOR DOES NOT CONFIRM THE COST IS WITHIN THE BUDGET PRIOR TO PURCHASE AND THE COSTS BECOME MORE THAN THE BUDGET, NO ADDITIONAL PAYMENT WILL BE MADE.

52. THE CONTRACTOR IS TO COORDINATE 806001 *TRAFFIC OFFICER* BY CALLING THE LOCAL POLICE JURISDICTION OR DELAWARE STATE POLICE "COVER YOUR ASSETS" (CYA) PROGRAM AT 302-300-7449 OR 1-800-391-3776 MONDAY THROUGH FRIDAY, 8 A.M. TO 4 P.M. UNLESS AN EMERGENT SITUATION EXISTS, PLEASE PROVIDE AT LEAST TWO WEEKS OF NOTICE. FURTHER COORDINATION CAN OCCUR, AS THE WORK GETS CLOSER. SOMEONE FROM THE CYA PROGRAM WILL LET THE CONTRACTOR KNOW HOW TO COORDINATE.

53. THE DISTRICT WILL PAY THE CONTRACTOR FOR *PERSONAL GRATE*, PER DELDOT STANDARD SPECIFICATION 601504.

54. THE REMOVAL AND CLEAN UP OF THE HOT MIX RESIDUE WEDGE REMAINING AFTER MILLING OPERATIONS SHALL BE INCIDENTAL TO THE 760 MILLING ITEMS. THE REMOVAL OF EXISTING RAISED PAVEMENT MARKERS (RPM'S) SHALL BE INCIDENTAL TO THE APPLICABLE MILLING ITEMS.

55. PAYMENT FOR *PAVEMENT MILLING, TAPER CUT* 760011 (NOTE 24) IS THE COMPUTATION OF THE AREA (IN SQUARE YARDS) MULTIPLIED BY THE AVERAGE OF THE OUTSIDE EDGES' TWO DEPTHS (IN INCHES) TO CREATE A SQUARE YARD-INCH UNIT.

56. PAYMENT FOR *BUTT JOINTS* 762004 WILL, IN FULL MILL AREAS SHALL BE INCIDENTAL TO THE MILLING ITEM. WITHIN MILLED AREAS, NO SEPARATE PAYMENT FOR BUTT JOINTS WILL OCCUR, DUE TO THE REMOVAL AND CLEANUP OF THE BITUMINOUS PAVEMENT RESIDUE WEDGE LEFT FROM MILLING OPERATIONS SHALL BE INCIDENTAL TO THE MILLING ITEM.

DEPARTMENT OF TRANSPORTATION

CONTRACT NO. T201903201

CENTRAL MAINTENANCE

PAGE 12 OF 20

CTF PROJECTS CENTRAL, FY19-21, OPEN END

NOTES

57. WITH THE EXCEPTION OF *BUTT JOINTS* AND UNLESS OTHERWISE NOTED IN THE PLANS OR DETAILS, *SAWCUTTING BITUMINOUS PAVEMENT* SHALL BE PAID UNDER ITEM 762000.

58. THE *INITIAL EXPENSE* ITEM 763000, AS BID, IS FOR THE TOTAL VALUE OF THE CONTRACT. USE THE FOLLOWING FORMULA FOR CALCULATING 763000 FOR EACH PAY ESTIMATE:

Z = TOTAL CONTRACT BID

X = COMPLETED WORK FOR ONE PAY ESTIMATE

Y = ITEM 763000 BID PRICE

$(Y / Z) * X = \text{PAYMENT FOR ITEM 763000 FOR EACH PAY ESTIMATE}$

THE FINAL ESTIMATE VALUE FOR ITEM 763000 MAY BE HIGHER OR LOWER THAN THE BID PRICE BASED ON WORK COMPLETED DURING THE CONTRACT, PER THE ABOVE FORMULA.

NOTE THAT MOBILIZATION FOR ALL LOCATIONS IS INCIDENTAL TO ITEM 763000 *INITIAL EXPENSE/DE-MOBILIZATION*.

ALSO NOTE THAT THE CONTRACTOR WILL NOT RECEIVE ANY ADDITIONAL PAYMENT FOR ANY ADDITIONAL MOBILIZATIONS THAT THE DISTRICT REQUESTS, NO MATTER IF THE TOTAL COST OF THE ALREADY PERFORMED WORK PLUS INCREASED/DECREASED LOCATIONS STILL DOES NOT EXCEED THE TOTAL AWARD PRICE OF THE CONTRACT.

59. THE DEPARTMENT ANTICIPATES WORK FOR PAY ITEM 763501, *CONSTRUCTION ENGINEERING*, TO BE THE CONTRACTOR TO DETERMINE DITCH INVERTS AND AMERICAN WITH DISABILITIES ACT (ADA) COMPLIANT SIDEWALK. THE BASIS FOR THE LUMP SUM FORMULA BID IS A) 3 OPEN-END LOCATIONS FOR DITCH INVERTS AND B) 15 OPEN-END LOCATIONS FOR SIDEWALK.

Z = TOTAL LUMP SUM

A = DITCH INVERTS PER LOCATION

B = ADA-COMPLIANT SIDEWALK PER LOCATION

$3 (A) + 15 (B) = Z$

60. THE DISTRICT WILL PAY THE CONTRACTOR FOR *MAINTENANCE OF TRAFFIC* (MOT), PER DELDOT STANDARD SPECIFICATION 801500, UNLESS THE DISTRICT DEEMS THAT A SPECIFIC LOCATION DOES NOT NEED TO UTILIZE THIS PAY ITEM. FOR APPLICABLE LOCATIONS, THE DISTRICT WILL PROCESS THE COST EACH WORK-ORDER'S MOT PAYMENT ON THE NEXT PAY ESTIMATE AFTER THE WORK IS 100% COMPLETE. EACH SUBDIVISION WILL BE ONE MOT PAYMENT THAT WILL INCLUDE ALL ROADS OR STREETS WITHIN THAT ONE SUBDIVISION.

END OF NOTES

DELAWARE DEPARTMENT OF TRANSPORTATION

CONTRACT T201903201.01

(CED) PAGE 13 OF 20

**CENTRAL
MAINTENANCE**

CTF PROJECTS CENTRAL, FY19-21, OPEN END

LOCATION 1 CENTRAL DISTRICT - CTF PAY ITEMS

LENGTH

GENERAL IMPROVEMENTS

CTF PROJECT CENTRAL, FY 19-21, OPEN END

COMMENTS:

MATERIAL ESTIMATE FOR LOCATION 1

202000	EXCAVATION AND EMBANKMENT	500.00	C.Y.
202004	UNDERCUT EXCAVATION, PATCHING	50.00	C.Y.
209005	FURNISHING BORROW, TYPE C FOR PIPE AND UTILITY TRENCH BACKFILL	600.00	C.Y.
211001	REMOVAL OF PORTLAND CEMENT CONCRETE PAVEMENT, CURB AND SIDEWALK	4,000.00	S.Y.
211500	TREE REMOVAL, 6" TO 15" DIAMETER	40.00	EACH
211501	TREE REMOVAL, GREATER THAN 15" TO 25" DIAMETER	40.00	EACH
211502	TREE REMOVAL, GREATER THAN 25" TO 37" DIAMETER	40.00	EACH
211503	TREE REMOVAL, GREATER THAN 37" TO 49" DIAMETER	12.00	EACH
211509	TREE TRIMMING	30.00	EACH
211510	STUMP REMOVAL	300.00	L.F.
211511	ROOT PRUNING	948.00	L.F.
301001	GRADED AGGREGATE BASE COURSE, TYPE B	110.00	C.Y.
301002	GRADED AGGREGATE BASE COURSE, TYPE B, PATCHING	150.00	C.Y.
301003	GRADED AGGREGATE BASE COURSE, TYPE B	250.00	TON
302005	DELAWARE NO. 57 STONE	100.00	TON
401005	SUPERPAVE TYPE C, PG 64-22 (CARBONATE STONE)	5,000.00	TON
401014	SUPERPAVE TYPE B, PG 64-22	550.00	TON
401029	SUPERPAVE TYPE C, PG 64-22, PATCHING	1,100.00	TON
401030	SUPERPAVE TYPE B, PG 64-22, PATCHING	250.00	TON
401500	FOG SEAL	12,500.00	GAL
401506	SPEED HUMP	180.00	L.F.
401574	PERVIOUS BITUMINOUS ASPHALT PAVEMENT	250.00	TON
401756	RUBBER MODIFIED FOG SEAL	11,500.00	GAL
401758	COAL SLAG	10,750.00	LB
401760	FOG SEAL WITH CURBING	11,800.00	GAL

DELAWARE DEPARTMENT OF TRANSPORTATION

CONTRACT T201903201.01

(CED) PAGE 14 OF 20

**CENTRAL
MAINTENANCE**

CTF PROJECTS CENTRAL, FY19-21, OPEN END

LOCATION 1 CENTRAL DISTRICT - CTF PAY ITEMS
LENGTH
GENERAL IMPROVEMENTS
 CTF PROJECT CENTRAL, FY 19-21, OPEN END

COMMENTS:

MATERIAL ESTIMATE FOR LOCATION 1

401761	RUBBER MODIFIED FOG SEAL WITH CURBING	11,000.00	GAL
402000	BITUMINOUS CONCRETE PATCHING	7,000.00	SY-IN
504001	CRACK AND JOINT SEALING LESS THAN 3/4 INCH WIDE	11,600.00	L.F.
504002	CRACK AND JOINT SEALING, 3/4 INCH TO 1 3/4 INCH WIDE	5,800.00	L.F.
601000	CLEANING DRAINAGE PIPE, 15"-24" DIAMETER	575.00	L.F.
601001	CLEANING DRAINAGE PIPE, GREATER THAN 24" DIAMETER	490.00	L.F.
601011	REINFORCED CONCRETE PIPE, 15", CLASS III	470.00	L.F.
601012	REINFORCED CONCRETE PIPE, 18", CLASS III	275.00	L.F.
601016	REINFORCED CONCRETE PIPE, 30", CLASS III	270.00	L.F.
601103	REINFORCED CONCRETE ELLIPTICAL PIPE, 24"X 38", CLASS III	150.00	L.F.
601141	REINFORCED CONCRETE FLARED END SECTION, 15"	6.00	EACH
601142	REINFORCED CONCRETE FLARED END SECTION, 18"	4.00	EACH
601146	REINFORCED CONCRETE FLARED END SECTION, 30"	4.00	EACH
601191	PVC PIPE, 6"	104.00	L.F.
601219	CORRUGATED POLYETHYLENE PIPE, TYPE S, 12"	296.00	L.F.
601220	CORRUGATED POLYETHYLENE PIPE, TYPE S, 15"	120.00	L.F.
601261	GALVANIZED CORRUGATED STEEL PIPE, 15", 16GAGE, 2-2/3" X 1/2" CORRUGATION	88.00	L.F.
601264	GALVANIZED CORRUGATED STEEL PIPE, 24", 16 GAGE, 2-2/3" X 1/2" CORRUGATION	104.00	L.F.
601504	PERSONAL GRATE FOR PIPE INLET	1.00	L.S.
602002	DRAINAGE INLET, 34" X 18"	6.00	EACH
602003	DRAINAGE INLET, 34" X 24"	6.00	EACH
602005	DRAINAGE INLET, 48" X 48"	8.00	EACH
602011	DRAINAGE INLET, 72" X 72"	6.00	EACH
602033	MANHOLE, 66" X 48"	4.00	EACH
602100	REPLACE DRAINAGE INLET GRATE(S)	11.00	EACH

DELAWARE DEPARTMENT OF TRANSPORTATION

CONTRACT T201903201.01

(CED) PAGE 15 OF 20

**CENTRAL
MAINTENANCE**

CTF PROJECTS CENTRAL, FY19-21, OPEN END

LOCATION 1 CENTRAL DISTRICT - CTF PAY ITEMS

LENGTH

GENERAL IMPROVEMENTS

CTF PROJECT CENTRAL, FY 19-21, OPEN END

COMMENTS:

MATERIAL ESTIMATE FOR LOCATION 1

602101	REPLACE DRAINAGE INLET FRAME(S)	11.00	EACH
602130	ADJUSTING AND REPAIRING EXISTING DRAINAGE INLET	6.00	EACH
602132	ADJUSTING AND REPAIRING EXISTING MANHOLE	6.00	EACH
610015	PORTLAND CEMENT CONCRETE MASONRY, CLASS C	500.00	C.Y.
701012	PORTLAND CEMENT CONCRETE CURB, TYPE 1-6	400.00	L.F.
701018	INTEGRAL PORTLAND CEMENT CONCRETE CURB AND GUTTER, TYPE 1-8	400.00	L.F.
701019	INTEGRAL PORTLAND CEMENT CONCRETE CURB AND GUTTER, TYPE 2	600.00	L.F.
701023	INTEGRAL PORTLAND CEMENT CONCRETE CURB AND GUTTER, TYPE 3-8	400.00	L.F.
705001	PORTLAND CEMENT CONCRETE SIDEWALK, 4"	6,300.00	S.F.
705002	PORTLAND CEMENT CONCRETE SIDEWALK, 6"	1,150.00	S.F.
705007	SIDEWALK SURFACE DETECTABLE WARNING SYSTEM	380.00	S.F.
705008	CURB RAMP, TYPE 1	800.00	S.F.
705009	CURB RAMP, TYPE 2, 3, AND/OR 4	750.00	S.F.
705010	CURB RAMP, TYPE 5	580.00	S.F.
707001	RIPRAP, R-4	300.00	S.Y.
707002	RIPRAP, R-5	70.00	S.Y.
707020	PRESACKED CONCRETE RIPRAP	210.00	C.Y.
708003	GEOTEXTILES, RIPRAP	375.00	S.Y.
710002	ADJUST WATER VALVE BOXES	32.00	EACH
760010	PAVEMENT MILLING, BITUMINOUS CONCRETE PAVEMENT	4,300.00	SY-IN
760011	PAVEMENT MILLING, BITUMINOUS CONCRETE PAVEMENT, TAPER CUT	5,700.00	SY-IN
760013	PAVEMENT MILLING, PORTLAND CEMENT CONCRETE PAVEMENT	2,300.00	SY-IN
760503	PAVEMENT MILLING, PATCHING	800.00	SY-IN
762000	SAW CUTTING, BITUMINOUS CONCRETE	1,200.00	L.F.
762001	SAW CUTTING, CONCRETE, FULL DEPTH	200.00	L.F.

DELAWARE DEPARTMENT OF TRANSPORTATION

CONTRACT T201903201.01

(CED) PAGE 16 OF 20

CENTRAL
MAINTENANCE

CTF PROJECTS CENTRAL, FY19-21, OPEN END

LOCATION 1 CENTRAL DISTRICT - CTF PAY ITEMS
LENGTH
GENERAL IMPROVEMENTS
CTF PROJECT CENTRAL, FY 19-21, OPEN END

COMMENTS:

MATERIAL ESTIMATE FOR LOCATION 1

762002	SAW CUTTING, CONCRETE, VARIABLE DEPTH	610.00	L.F.
762004	BUTT JOINTS	2,900.00	S.Y.
763587	MAN HOUR OF MISCELLANEOUS WORK	600.00	hour
802003	ARROW PANELS TYPE C	43.00	EA-DY
803001	FURNISH AND MAINTAIN PORTABLE CHANGEABLE MESSAGE SIGN	43.00	EA-DY
804001	FURNISH AND MAINTAIN PORTABLE LIGHT ASSEMBLY (FLOOD LIGHTS)	25.00	EA-DY
805001	PLASTIC DRUMS	747.00	EA-DY
806001	TRAFFIC OFFICERS	100.00	hour
808002	FURNISH AND MAINTAIN TRUCK MOUNTED ATTENUATOR, TYPE II	50.00	EA-DY
811002	FLAGGER, KENT COUNTY, STATE	1,600.00	hour
811014	FLAGGER, KENT COUNTY, STATE, OVERTIME	300.00	hour
813001	TEMPORARY BARRICADES, TYPE III	150.00	LFDY
817002	PERMANENT PAVEMENT STRIPING, SYMBOL/LEGEND, ALKYD-THERMOPLASTIC	500.00	S.F.
817003	TEMPORARY MARKINGS, PAINT, 4"	1,650.00	L.F.
817004	TEMPORARY MARKINGS, PAINT, SYMBOL/LEGEND	695.00	S.F.
817026	PAINTING OF WHITE OR YELLOW, 5" LINE	1,801.00	L.F.
908001	TOPSOIL	359.00	TON
908003	TOPSOIL, 4" DEPTH	3,500.00	S.Y.
908005	TOPSOIL, 12" DEPTH	250.00	S.Y.
908014	PERMANENT GRASS SEEDING, DRY GROUND	702.00	S.Y.
908016	PERMANENT GRASS SEEDING, SUBDIVISION	2,680.00	S.Y.
908516	SODDING	4,000.00	S.Y.
911000	PLANTINGS	1.00	L.S.

DELAWARE DEPARTMENT OF TRANSPORTATION

CONTRACT T201903201.01

(CED) PAGE 17 OF 20

CENTRAL
MAINTENANCE

CTF PROJECTS CENTRAL, FY19-21, OPEN END

CONTRACT QUANTITIES SUMMARY SHEET

202000	EXCAVATION AND EMBANKMENT	500.00	C.Y.
202004	UNDERCUT EXCAVATION, PATCHING	50.00	C.Y.
209005	FURNISHING BORROW, TYPE C FOR PIPE AND UTILITY TRENCH BACKFILL	600.00	C.Y.
211001	REMOVAL OF PORTLAND CEMENT CONCRETE PAVEMENT, CURB AND SIDEWALK	4,000.00	S.Y.
211500	TREE REMOVAL, 6" TO 15" DIAMETER	40.00	EACH
211501	TREE REMOVAL, GREATER THAN 15" TO 25" DIAMETER	40.00	EACH
211502	TREE REMOVAL, GREATER THAN 25" TO 37" DIAMETER	40.00	EACH
211503	TREE REMOVAL, GREATER THAN 37" TO 49" DIAMETER	12.00	EACH
211509	TREE TRIMMING	30.00	EACH
211510	STUMP REMOVAL	300.00	L.F.
211511	ROOT PRUNING	948.00	L.F.
301001	GRADED AGGREGATE BASE COURSE, TYPE B	110.00	C.Y.
301002	GRADED AGGREGATE BASE COURSE, TYPE B, PATCHING	150.00	C.Y.
301003	GRADED AGGREGATE BASE COURSE, TYPE B	250.00	TON
302005	DELAWARE NO. 57 STONE	100.00	TON
401005	SUPERPAVE TYPE C, PG 64-22 (CARBONATE STONE)	5,000.00	TON
401014	SUPERPAVE TYPE B, PG 64-22	550.00	TON
401029	SUPERPAVE TYPE C, PG 64-22, PATCHING	1,100.00	TON
401030	SUPERPAVE TYPE B, PG 64-22, PATCHING	250.00	TON
401500	FOG SEAL	12,500.00	GAL
401506	SPEED HUMP	180.00	L.F.
401574	PERVIOUS BITUMINOUS ASPHALT PAVEMENT	250.00	TON
401756	RUBBER MODIFIED FOG SEAL	11,500.00	GAL
401758	COAL SLAG	10,750.00	LB
401760	FOG SEAL WITH CURBING	11,800.00	GAL
401761	RUBBER MODIFIED FOG SEAL WITH CURBING	11,000.00	GAL
402000	BITUMINOUS CONCRETE PATCHING	7,000.00	SY-IN

DELAWARE DEPARTMENT OF TRANSPORTATION

CONTRACT T201903201.01

(CED) PAGE 18 OF 20

CENTRAL
MAINTENANCE

CTF PROJECTS CENTRAL, FY19-21, OPEN END

CONTRACT QUANTITIES SUMMARY SHEET

504001	CRACK AND JOINT SEALING LESS THAN 3/4 INCH WIDE	11,600.00	L.F.
504002	CRACK AND JOINT SEALING, 3/4 INCH TO 1 3/4 INCH WIDE	5,800.00	L.F.
601000	CLEANING DRAINAGE PIPE, 15"-24" DIAMETER	575.00	L.F.
601001	CLEANING DRAINAGE PIPE, GREATER THAN 24" DIAMETER	490.00	L.F.
601011	REINFORCED CONCRETE PIPE, 15", CLASS III	470.00	L.F.
601012	REINFORCED CONCRETE PIPE, 18", CLASS III	275.00	L.F.
601016	REINFORCED CONCRETE PIPE, 30", CLASS III	270.00	L.F.
601103	REINFORCED CONCRETE ELLIPTICAL PIPE, 24"X 38", CLASS III	150.00	L.F.
601141	REINFORCED CONCRETE FLARED END SECTION, 15"	6.00	EACH
601142	REINFORCED CONCRETE FLARED END SECTION, 18"	4.00	EACH
601146	REINFORCED CONCRETE FLARED END SECTION, 30"	4.00	EACH
601191	PVC PIPE, 6"	104.00	L.F.
601219	CORRUGATED POLYETHYLENE PIPE, TYPE S, 12"	296.00	L.F.
601220	CORRUGATED POLYETHYLENE PIPE, TYPE S, 15"	120.00	L.F.
601261	GALVANIZED CORRUGATED STEEL PIPE, 15", 16GAGE, 2-2/3" X 1/2" CORRUGATION	88.00	L.F.
601264	GALVANIZED CORRUGATED STEEL PIPE, 24", 16 GAGE, 2-2/3" X 1/2" CORRUGATION	104.00	L.F.
601504	PERSONAL GRATE FOR PIPE INLET	1.00	L.S.
602002	DRAINAGE INLET, 34" X 18"	6.00	EACH
602003	DRAINAGE INLET, 34" X 24"	6.00	EACH
602005	DRAINAGE INLET, 48" X 48"	8.00	EACH
602011	DRAINAGE INLET, 72" X 72"	6.00	EACH
602033	MANHOLE, 66" X 48"	4.00	EACH
602100	REPLACE DRAINAGE INLET GRATE(S)	11.00	EACH
602101	REPLACE DRAINAGE INLET FRAME(S)	11.00	EACH
602130	ADJUSTING AND REPAIRING EXISTING DRAINAGE INLET	6.00	EACH
602132	ADJUSTING AND REPAIRING EXISTING MANHOLE	6.00	EACH
610015	PORTLAND CEMENT CONCRETE MASONRY, CLASS C	500.00	C.Y.

DELAWARE DEPARTMENT OF TRANSPORTATION

CONTRACT T201903201.01

(CED) PAGE 19 OF 20

CENTRAL
MAINTENANCE

CTF PROJECTS CENTRAL, FY19-21, OPEN END

CONTRACT QUANTITIES SUMMARY SHEET

701012	PORTLAND CEMENT CONCRETE CURB, TYPE 1-6	400.00	L.F.
701018	INTEGRAL PORTLAND CEMENT CONCRETE CURB AND GUTTER, TYPE 1-8	400.00	L.F.
701019	INTEGRAL PORTLAND CEMENT CONCRETE CURB AND GUTTER, TYPE 2	600.00	L.F.
701023	INTEGRAL PORTLAND CEMENT CONCRETE CURB AND GUTTER, TYPE 3-8	400.00	L.F.
705001	PORTLAND CEMENT CONCRETE SIDEWALK, 4"	6,300.00	S.F.
705002	PORTLAND CEMENT CONCRETE SIDEWALK, 6"	1,150.00	S.F.
705007	SIDEWALK SURFACE DETECTABLE WARNING SYSTEM	380.00	S.F.
705008	CURB RAMP, TYPE 1	800.00	S.F.
705009	CURB RAMP, TYPE 2, 3, AND/OR 4	750.00	S.F.
705010	CURB RAMP, TYPE 5	580.00	S.F.
707001	RIPRAP, R-4	300.00	S.Y.
707002	RIPRAP, R-5	70.00	S.Y.
707020	PRESACKED CONCRETE RIPRAP	210.00	C.Y.
708003	GEOTEXTILES, RIPRAP	375.00	S.Y.
710002	ADJUST WATER VALVE BOXES	32.00	EACH
760010	PAVEMENT MILLING, BITUMINOUS CONCRETE PAVEMENT	4,300.00	SY-IN
760011	PAVEMENT MILLING, BITUMINOUS CONCRETE PAVEMENT, TAPER CUT	5,700.00	SY-IN
760013	PAVEMENT MILLING, PORTLAND CEMENT CONCRETE PAVEMENT	2,300.00	SY-IN
760503	PAVEMENT MILLING, PATCHING	800.00	SY-IN
762000	SAW CUTTING, BITUMINOUS CONCRETE	1,200.00	L.F.
762001	SAW CUTTING, CONCRETE, FULL DEPTH	200.00	L.F.
762002	SAW CUTTING, CONCRETE, VARIABLE DEPTH	610.00	L.F.
762004	BUTT JOINTS	2,900.00	S.Y.
763000	INITIAL EXPENSE/DE-MOBILIZATION	LUMP	SUM
763587	MAN HOUR OF MISCELLANEOUS WORK	600.00	HOUR
801500	MAINTENANCE OF TRAFFIC, ALL INCLUSIVE	LUMP	SUM
802003	ARROW PANELS TYPE C	43.00	EA-DY

DELAWARE DEPARTMENT OF TRANSPORTATION

CONTRACT T201903201.01

(CED) PAGE 20 OF 20

CENTRAL
MAINTENANCE

CTF PROJECTS CENTRAL, FY19-21, OPEN END

CONTRACT QUANTITIES SUMMARY SHEET

803001	FURNISH AND MAINTAIN PORTABLE CHANGEABLE MESSAGE SIGN	43.00	EA-DY
804001	FURNISH AND MAINTAIN PORTABLE LIGHT ASSEMBLY (FLOOD LIGHTS)	25.00	EA-DY
805001	PLASTIC DRUMS	747.00	EA-DY
806001	TRAFFIC OFFICERS	100.00	HOURL
808002	FURNISH AND MAINTAIN TRUCK MOUNTED ATTENUATOR, TYPE II	50.00	EA-DY
811002	FLAGGER, KENT COUNTY, STATE	1,600.00	HOURL
811014	FLAGGER, KENT COUNTY, STATE, OVERTIME	300.00	HOURL
813001	TEMPORARY BARRICADES, TYPE III	150.00	LFDY
817002	PERMANENT PAVEMENT STRIPING, SYMBOL/LEGEND, ALKYD-THERMOPLASTIC	500.00	S.F.
817003	TEMPORARY MARKINGS, PAINT, 4"	1,650.00	L.F.
817004	TEMPORARY MARKINGS, PAINT, SYMBOL/LEGEND	695.00	S.F.
817026	PAINTING OF WHITE OR YELLOW, 5" LINE	1,801.00	L.F.
908001	TOPSOIL	359.00	TON
908003	TOPSOIL, 4" DEPTH	3,500.00	S.Y.
908005	TOPSOIL, 12" DEPTH	250.00	S.Y.
908014	PERMANENT GRASS SEEDING, DRY GROUND	702.00	S.Y.
908016	PERMANENT GRASS SEEDING, SUBDIVISION	2,680.00	S.Y.
908516	SODDING	4,000.00	S.Y.
911000	PLANTINGS	1.00	L.S.