THE STATE OF DELAWARE

DEPARTMENT OF TRANSPORTATION
MAINTENANCE AND OPERATIONS
CONSTRUCTION PLANS AND SPECIFICATIONS FOR

STRUCTURE MAINTENANCE, CENTRAL DISTRICT, FY 19-21

CONTRACT NUMBER - T201707502.01

FEDERAL AID NUMBER - NONE

PRIMAVERA ID – 17-34402

COUNTY: KENT

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PLANS PREPARED BY: _____
DESIGNER

_____ 9-12-18
DELDOT – CE IV/PROJECT MANAGER — DATE
MAINTENACE AND OPERATIONS - (CED)

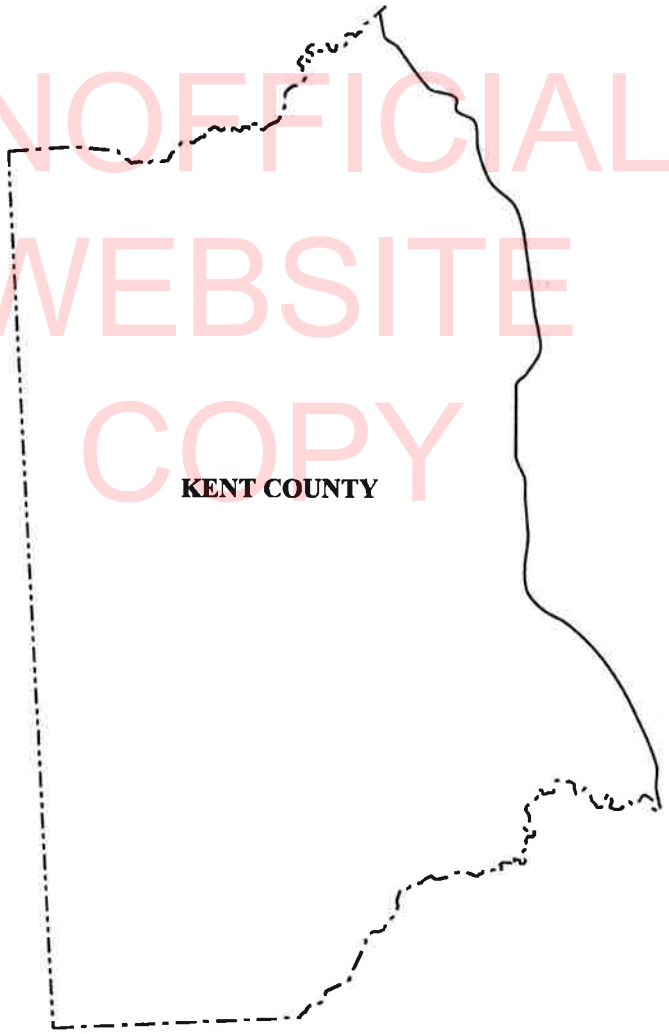
TIMOTHY R. STYNCHULA
LICENSED
No. 15871
DELAWARE
PROFESSIONAL ENGINEER

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

APPROVED FOR ADVERTISEMENT

_____ 9/13/18
DIRECTOR OF MAINTENANCE AND OPERATIONS — DATE

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. THE PURPOSE OF THIS CONTRACT IS TO MAKE REPAIRS AND OR REHABILITATION OF EXISTING BRIDGE STRUCTURES LOCATED WITHIN THE CENTRAL DISTRICT. DEPENDING ON FUND AVAILABILITY, THE DEPARTMENT RESERVES THE RIGHT TO ADD OR DELETE LOCATIONS AND/OR QUANTITIES FOR THIS CONTRACT.

LENGTH OF CONTRACT:

THE PERIOD OF THIS CONTRACT IS FROM THE DATE OF THE "NOTICE TO PROCEED" FOR THREE (3) CALENDAR YEARS. THE DOLLAR VALUE ESTIMATED TO BE UTILIZED IN EACH OF THE THREE YEARS IS APPROXIMATELY ONE THIRD OF THE ENTIRE CONTRACT AWARD VALUE.

PRICE ADJUSTMENT:

THE BID PRICES IN THE CONTRACT MUST BE GUARANTEED FOR THE FIRST YEAR OF THE CONTRACT. FUTURE YEARS IS DEPENDENT ON LEGISLATIVE APPROPRIATIONS FOR THESE FISCAL YEARS AND AGREEMENT ON YEAR'S TWO AND THREE PRICING AS DESCRIBED HERIN. FOR THE SECOND AND THIRD YEAR OF THE CONTRACT, THE DEPARTMENT OR VENDOR MAY REQUEST ONE INCREASE IN EACH UNIT PRICE PER YEAR. THE ASPHALT CEMENT COST BASE PRICE REMAINS UNCHANGED UNLESS EFFECTED UNIT PRICES ARE CHANGED.

IF THE PRICE DIFFERENCE REQUESTED EXCEEDS THE CHANGE IN THE NATIONWIDE ALL URBAN CONSUMER PRICE INDEX (CPI-U), U.S. CITY AVERAGE FOR THE PREVIOUS TWELVE MONTHS, APPROVAL OF ANY PRICE ADJUSTMENT ABOVE THE CPI-U WILL BE AT THE DISCRETION OF THE DISTRICT ENGINEER.

THE DEPARTMENT RETAINS THE RIGHT TO CANCEL THE CONTRACT WITHOUT LIABILITY OR PENALTY IF ACCEPTABLE AGREEMENT CANNOT BE REACHED WITH THE VENDOR ON THE PRICE ADJUSTMENT. 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.

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

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NOTES

3. THE DEPARTMENT RESERVES THE RIGHT TO TERMINATE THE CONTRACT FOR FAILURE TO MEET THE PROVISIONS OF THE CONTRACT.

4. THE LOCATION LISTING IS A SUMMARY OF ALL IMPROVEMENTS, AND ESTIMATED QUANTITIES. ACTUAL LOCATION WORK WITH APPLICABLE QUANTITIES IS DESCRIBED IN THE PROJECT NOTES SECTION LISTED BELOW. 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.

5. 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 THERE 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 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

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CLOSED. UPON CLOSURE, THE DEPARTMENT WILL PROCESS THE CONTRACTOR'S INVOICES FOR THE SPECIFIC WORK ORDERS.

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

7. 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.

8. 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 CONTRACT 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.

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MAINTENANCE OF TRAFFIC AND PAVEMENT MARKINGS

9. 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 TO 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 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.

10. 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.

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11. 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 PAVEMENT MARKINGS SHALL BE PAID AT THE APPLICABLE CONTRACT UNIT PRICE.

12. 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.

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. 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. 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.

15. 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 AND /OR MASH AS DEFINED IN SECTION "A" OF THE MANUAL. 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.

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-28 AND/OR TA-29 OF THE 2011 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 EXISTS ON THE PEDESTRIAN ROUTE. THE COST FOR ANY PROVISIONS SHALL BE NEGOTIATED PRIOR TO ANY WORK ON THESE FACILITIES.

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 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.

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- 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.

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PROJECT

17. ALL MILLED MATERIAL SHALL REMAIN THE PROPERTY OF THE CONTRACTOR.

18. ANY AND ALL CLEARING AND GRUBBING SHALL BE NEGOTIATED SEPARATELY AS REQUIRED PER LOCATION. PRICING SHALL BE AGREED UPON PRIOR TO THE COMMENCEMENT OF WORK. GRUBBING ACTIVITIES IN WETLAND AREAS MAY REQUIRE ENVIRONMENTAL PERMIT APPROVALS WHICH SHALL BE OBTAINED BY THE DELDOT PROJECT MANAGER.

19. ITEM 301001, GABC, TYPE B, SHALL BE USED AS BASE MATERIAL UNDER ALL CURB, SIDEWALK AND PAVEMENT. COST IS INCLUDED IN THESE ITEMS AND NO SEPARATE PAYMENT WILL BE MADE FOR GABC.

20. PAYMENT FOR ITEM 610000, PORTLAND CEMENT CONCRETE MASONRY, CLASS A, AND ITEM 610016, PORTLAND CEMENT CONCRETE MASONRY, CLASS D WILL BE MADE BASED ON THE ACTUAL MEASURED QUANTITY PLACED (IN CY).

21. UNLESS OTHERWISE DIRECTED BY THE ENGINEER, EXPANSION MATERIAL IN ACCORDANCE WITH SECTION 1042, SHALL BE PLACED AT EACH LOCATION WHERE ITEM 762001, SAW CUTTING CONCRETE, FULL DEPTH, IS PAID. PAYMENT FOR FURNISHING AND PLACING THE EXPANSION MATERIAL SHALL BE INCIDENTAL TO ITEM 762001.

22. THE AREA AND DEPTH OF DETERIORATED CONCRETE REMOVED IN SPALLED AREAS SHALL BE PRE-APPROVED BY THE ENGINEER PRIOR TO REMOVAL (MINIMUM 2'' DEPTH).

23. CRACK WIDTHS LARGER THAN ONE HALF INCH SHALL BE REPAIRED BY GROUTING. PAYMENT WILL BE UNDER ITEM 628020, ROUT AND SEAL CRACKS.

24. DISPOSAL OF UNACCEPTABLE MATERIALS SHALL BE AS PER SPECIFICATION SECTION 106.08 AND SHALL BE AT THE CONTRACTOR'S EXPENSE.

25. ALL STREAMBEDS AFFECTED BY THE CONTRACTOR'S WORK SHALL BE RESTORED TO ORIGINAL CONTOURS AND ELEVATIONS, UNLESS OTHERWISE DIRECTED BY THE ENGINEER. PAYMENT SHALL BE INCIDENTAL TO THE CONTRACT.

NOTES

26. ENVIRONMENTAL PERMITS WILL BE REQUIRED FOR ANY RIPRAP PLACEMENT IN WATERS/WETLANDS AND WILL BE OBTAINED BY THE DELDOT PROJECT MANAGER PRIOR TO THE COMMENCEMENT OF WORK.

27. CHANNEL EXCAVATION DOES NOT REQUIRE ENVIRONMENTAL PERMITS PROVIDED THE FOLLOWING CONDITIONS ARE MET: **A:** WORK IS OCCURRING AT A NON-TIDAL LOCATION; **B:** THE SEDIMENT IS "SCOOPED"—NOT BLADED (PUSHED); **C:** THE "SCOOPED" SEDIMENT IS PLACED IN AN UPLAND LOCATION. IF ALL OF THESE CONDITIONS ARE NOT MET, WORK SHALL NOT COMMENCE UNTIL ENVIRONMENTAL PERMITS HAVE BEEN OBTAINED BY THE DELDOT PROJECT MANAGER.

28. SUBMITTALS FOR WET AND DRY APPLICATIONS ARE REQUIRED FOR ITEM 628001, REPAIR OF CONCRETE STRUCTURES BY EPOXY INJECTION. THESE SUBMITTALS SHALL BE REVIEWED BY DELDOT BRIDGE SECTION FOR COMPLIANCE AND USAGE.

29. THE COST OF CLIPPING THE EDGES BACK, PICKING UP AND DISPOSING OF EXCESS MATERIAL AND SWEEPING AND CLEARING EXISTING PAVEMENT PRIOR TO OVERLAY SHALL BE INCIDENTAL TO THE PAVING ITEM.

30. THE USE OF TRENCH BOXES AND STEEL PLATES (WHERE ALLOWED) SHALL BE INCIDENTAL TO THE WORK REQUIRING THE USE OF THESE ITEMS. NO SEPARATE PAYMENT SHALL BE MADE FOR THE USE OF THESE ITEMS.

31. DRAINAGE INLET GRATES, WHICH ARE NOT THE 45-DEGREE TYPE SHALL BE REPLACED. AT LOCATIONS WHERE NO PATCHING IS DESIGNATED, THIS TYPE OF GRATE SHALL BE REPLACED ONLY WHEN THE CATCH BASIN IS TO BE ADJUSTED AND/OR REPAIRED. THE ACTUAL LOCATIONS, THE NEED FOR ANY GRATE MODIFICATIONS OR FOR NEW FRAMES SHALL BE DETERMINED BY THE ENGINEER. THE COST FOR THE WORK SHALL BE NEGOTIATED PRIOR TO THE REPLACEMENT OF ANY DRAINAGE INLET GRATES.

32. EXCAVATION FOR PCC CURBS, SIDEWALK OR VALLEY GUTTER SHALL BE INCIDENTAL TO THE BID PRICE FOR EACH RESPECTIVE ITEM. EXCAVATED MATERIAL, NOT NEEDED ON THE PROJECT, SHALL BE REMOVED FROM THE PROJECT AT THE CONTRACTOR'S EXPENSE. WHEN REPLACEMENT OF CURB AND GUTTER HAS BEEN COMPLETED AND THE FORMS REMOVED AT EACH LOCATION OF THIS CONTRACT, BACKFILLING SHALL BE DONE IMMEDIATELY. COMPLETE RESTORATION, TOPSOIL, SEEDING, AND REMOVAL OF ALL MATERIALS FOR CURB & GUTTER OR SIDEWALK; SEALING OF VALLEY GUTTERS, FLOW CHANNELS AND PARGING OF CATCH BASINS, SHALL BE COMPLETED WITHIN SEVEN (7) CALENDAR DAYS. FAILURE TO COMPLY WILL RESULT IN A SUSPENSION OF ALL OTHER CONTRACT WORK WITH TIME CHARGES CONTINUING TO BE ASSESSED.

33. ALL CONCRETE TO HOT-MIX INTERFACES SHALL REQUIRE TACK ON ALL VERTICAL SURFACES. ALL LONGITUDINAL INTERFACES SHALL BE SEALED WITH A UNIFORM 4" BAND OF PG 64-22. THESE ITEMS ARE INCIDENTAL TO THE BITUMINOUS WARM MIX ITEM.

34. THE CONTRACTOR SHALL GIVE A TWO (2) WEEKS' NOTICE TO THE PROPERTY OWNER WHEN ANY FIXTURE, SHRUB OR ANOTHER OBJECT MUST BE REMOVED FROM THE RIGHT OF WAY OR EASEMENT AREA. IF THE OWNER HAS NOT ATTEMPTED TO SALVAGE THIS PROPERTY, THE CONTRACTOR SHALL REMOVE IT WITHOUT OBLIGATION. COMPENSATION SHALL BE INCIDENTAL TO THE CONTRACT.

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35. THE PAINT SYSTEM USED FOR THE STRUCTURAL STEEL SHALL BE APPLIED IN A THREE (3) COAT SYSTEM APPLICATION IN ALL STRIPPED AND CLEANED AREAS. AFTER THE TOPCOAT IS APPLIED AREAS THAT SHOWED PACK RUST, AS DIRECTED BY THE ENGINEER, SHALL BE SEALED WITH A PAINTABLE CAULK WITH SILICONE AND HAVE ONE COAT OF TOP COLOR APPLIED; PAYMENT INCIDENTAL TO ITEM 616501 – MOISTURE CURED URETHANE PAINT SYSTEM (RECOATING).

36. FOR ALL BRIDGES IN THIS CONTRACT, ANY CLEANING REQUIRING PRESSURE WASHING SHALL BE INCIDENTAL TO ITEM 616501. THE CONTRACTOR SHALL BE RESPONSIBLE TO CHECK AND MONITOR THE STRUCTURE DURING THE PAINT REMOVAL PROCESS TO ENSURE THAT DAMAGE IS NOT OCCURRING TO ANY PART OF THE STRUCTURE.

37. DURING THE CLEANING OPERATION, THE CONTRACTOR SHALL REPORT TO THE ENGINEER ANY DEFECTS IN THE STEEL. THESE DEFECTS INCLUDE, BUT ARE NOT LIMITED TO, LOSS OF SECTION, CRACKING, BUCKLING, LOOSE BOLTS, AND LOOSE RIVETS.

38. MAINTENANCE OF TRAFFIC SHALL BE AS PER THE DETOUR PLANS OR TRAFFIC CONTROL CASE AS PROVIDED FOR EACH BRIDGE. ALL TRAFFIC CONTROL DEVICES REQUIRED SHALL BE INCLUDED IN THE BID PRICE FOR THE TRAFFIC-RELATED ITEMS OF THIS CONTRACT.

39. CONTRACT EQUIPMENT CAN BE STORED ADJACENT TO THE ROADWAY DURING APPOINTED CONSTRUCTION HOURS (AS DEEMED BY THE ENGINEER). DURING NON-CONSTRUCTION HOURS, ALL CONSTRUCTION EQUIPMENT SHALL BE REMOVED FROM ALL SHOULDERS AND LANES. ALL EQUIPMENT SHALL BE STORED IN ACCORDANCE WITH THE TRAFFIC CONTROL MANUAL. ALL TRAFFIC CONTROL DEVICES REQUIRED FOR EQUIPMENT STORAGE SHALL BE INCLUDED IN THE BID PRICE FOR THE TRAFFIC-RELATED ITEMS OF THIS CONTRACT.

40. NO EQUIPMENT IS ALLOWED IN ANY WATERWAY OR WETLAND.

41. THE CONTRACTOR MAY STORE THE EQUIPMENT NEEDED FOR THIS PROJECT AT A PRE-APPROVED AREA. THE CONTRACTOR MUST REMOVE EQUIPMENT FROM THE JOBSITE IF AND WHEN THE DISTRICT DEEMS IT NECESSARY. AREAS WITHIN THE STATE RIGHT-OF-WAY LIMITS IN WHICH THE SOIL AND VEGETATION HAVE BEEN DAMAGED FROM EQUIPMENT DURING THIS CONTRACT, SHALL BE REPAIRED WITH TOPSOIL, SEED AND MULCH IN ACCORDANCE WITH THE REQUIREMENTS FOR ITEMS 908003 AND 908014 AT THE CONTRACTOR'S OWN EXPENSE.

42. FOR AREAS OF STEEL THAT REQUIRE PAINTING, PAYMENT FOR CLEANING OF THE STEEL IS INCLUDED IN ITEM 616501- MOISTURE CURED URETHANE PAINT SYSTEM (RECOATING), S.F. THE CONTRACTOR HAS THE OPTION OF USING ABRASIVE CLEANING OF THE STEEL. IF THE CONTRACTOR CHOOSES TO BLAST CLEAN HE SHALL SUBMIT FOR APPROVAL THE CONTAINMENT PLAN, ABRASIVE TO BE USED, AND ALL PERTINENT DETAILS OF THE OPERATION AS DETERMINED BY THE ENGINEER. PAYMENT SHALL BE INCIDENTAL TO ITEM 616501. CONTAINMENT SYSTEMS ARE REQUIRED FOR ALL ABRASIVE BLASTING. THE DESIGN OF THE CONTAINMENT SYSTEM MUST BE SUBMITTED AND APPROVED BY THE DEPARTMENT PRIOR TO ANY WORK BEING PERFORMED.

43. ALL DOWNSPOUTS SHALL BE VACUUM POWER TOOL CLEANED OR ABRASIVE BLAST CLEANED, AND WHERE NECESSARY, GALVANIZED DOWNSPOUTS SHALL BE PAINTED WITH MOISTURE CURE ALUMINUM PAINT SYSTEM. IF THE DOWNSPOUTS ARE NON-GALVANIZED, THEN THEY SHALL BE PAINTED WITH THE REGULAR URETHANE PAINT SYSTEM USED TO PAINT THE BRIDGE AS INDICATED IN ITEM 616501. ALL GALVANIZED UTILITY OR LIGHTING CONDUITS SHALL BE BRUSH PAINTED WITH MOISTURE CURE ALUMINUM PAINT AFTER RECEIVING AN S.S.P.C. SP-7 (BRUSH OFF BLAST CLEANING) FINISH. ALL NON-

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GALVANIZED UTILITY OR LIGHTING CONDUITS SHALL BE BRUSH PAINTED WITH THE REGULAR URETHANE PAINT SYSTEM AFTER RECEIVING AN S.S.P.C. SP-6 (COMMERCIAL BLAST CLEANING) FINISH. IF THERE ARE ANY DRY STANDPIPES, NATURAL GAS LINE CONDUITS, OR ANY PLASTIC PIPE CONDUITS ON THE BRIDGES, THEN THEY SHALL BE LEFT AS IS. ALL STEEL WEEP HOLE PIPES THAT PROTRUDE FROM THE ABUTMENTS AND WINGWALLS SHALL BE CLEANED AND PAINTED WITH THE REGULAR URETHANE PAINT SYSTEM (PAYMENT UNDER ITEM 616501). ANY GAS MAINS AND/OR OTHER UTILITIES FOUND ON BRIDGES SHOULD BE SHIELDED DURING BLASTING OPERATIONS. PAYMENT FOR SHIELDING SHALL BE UNDER ITEM 616501. LIGHTS AND CONDUIT THAT ARE ATTACHED TO THE BRIDGE SHOULD BE PAINTED AS NOTED ABOVE. THE FENCES ATTACHED TO THE PARAPET OF ANY OF THE BRIDGES SHOULD NOT BE PAINTED.

44. ALL BEARINGS FOR THESE BRIDGES SHALL BE ABRASIVE BLAST CLEANED TO AN S.S.P.C. SP-10 FINISH. CARE SHALL BE TAKEN WHEN CLEANING "FROZEN" BEARINGS, BECAUSE THE ABRASIVE BLASTING OPERATION SOMETIMES CAUSES THE BEARINGS TO "UNFREEZE". ALL PITTED AREAS OF THE STRUCTURAL STEEL SHALL BE BRUSH PAINTED ALONG WITH SPRAYING WHEN APPLYING EVERY COAT OF PAINT OF THE THREE-COAT SYSTEM. CLEANING OF BEARING AREAS SHALL BE INCLUDED UNDER ITEM 623004. AFTER ALL THE BEARINGS HAVE BEEN PAINTED, AND AFTER THE PAIN HAS CURED, AND AFTER ALL CONCRETE HAS BEEN SEALED, THE CONTRACTOR SHALL LUBRICATE ALL THE BEARINGS WITH A NLGI GRADE 2 GREASE EITHER MOBIL CENTAUR MOLY GREASE, SHELL RHODINA SDX 2 GREASE, OR AN APPROVED EQUAL. GREASE SHALL BE BLACK OR CLEAR IN COLOR. PAYMENT SHALL BE INDICENTAL TO ITEM 623004.

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45. ALL CONCRETE SURFACES AS DIRECTED IN THE STRUCTURE SPECIFIC NOTES SHALL BE PREPARED AND SEALED AS INDICATED IN ITEM 613001 AND 613002. ALL BOUNDARIES BETWEEN SEALED AND UNSEALED CONCRETE WILL BE A STRAIGHT HORIZONTAL OR VERTICAL LINE UNLESS DIRECTED OTHERWISE BY THE ENGINEER OR STRUCTURE SPECIFIC NOTES.

46. THE CONTRACTOR SHALL PLACE A LEVELING COURSE PRIOR TO INSTALLATION OF THE ASPHALTIC JOINT SEAL. LEVELING COURSES SHALL BE RAPID HARDENING, HIGH EARLY STRENGTH GAINING MORTAR. MORTAR SHALL BE SIKAQUICK 2500 OR DAYTON SUPERIOR HD-25, OR APPROVED EQUAL. THE MORTAR SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 2000 PSI IN 3 HRS. ADHERE TO MANUFACTURER'S RECOMMENDATIONS FOR USE OF AGGREGATE BASED ON DEPTH OF REPAIR. FOLLOW MANUFACTURER'S RECOMMENDATIONS FOR LIFT THICKNESS. PAYMENT FOR MORTAR SHALL BE INDICENTAL TO PAY ITEM 624009. MINIMUM DEPTH OF ASPHALTIC MATERIAL SHALL BE 2" AND THE MAXIMUM GAP TO BE SPANNED SHALL BE 2". ANY TEMPORARY MEASURES TO OPEN THE ROADWAY PRIOR TO COMPLETION OF THE JOINT, PLATES, COLD PATCH, ETC., SHALL BE INCIDENTAL TO ITEM 624009.

47. TO REPAIR TRANSITION JOINTS USE ITEM 624009. PRIOR TO INSTALLING THE JOINT MATERIAL, THE EXISTING STEEL BEAM NEEDS TO BE CUT OUT, AND THE ADJACENT CONCRETE REMOVED. THE SAWCUTTING AND REMOVAL OF THE STEEL AND CONCRETE SHALL BE INCIDENTAL TO ITEM 624009. DETAIL FOR REPAIR OF TRANSITION JOINTS IS FOUND ON PAGE 13.

48. TWO VARIABLE MESSAGE BOARDS SHALL BE PLACED AT EACH BRIDGE LOCATION TEN DAYS PRIOR TO THE START OF CONSTRUCTION TO NOTIFY DRIVERS OF THE LANE/SHOULDER CLOSURE AND IMPENDING CONSTRUCTION ACTIVITY. THE MESSAGE SHALL INCLUDE THE DATES AND TIMES OF THE LANE CLOSURES AND HOW LONG THE CLOSURE WILL BE NECESSARY, MESSAGE SHALL BE APPROVED BY THE SAFETY OFFICER. FOR LOCATIONS THAT HAVE PARALLEL STRUCTURES, A TOTAL OF TWO VARIABLE MESSAGE BOARDS SHALL BE USED FOR BOTH BRIDGES.

NOTES

49. PATCH SPALLS IN THE PARAPET, ABUTMENTS, AND BACKWALLS AS DIRECTED. USE ITEM 628040 FOR SHALLOW SPALL REPAIRS AND 628041 FOR DEEP SPALL REPAIRS. ITEM 628042 SHOULD UTILIZE CLASS A CONCRETE AND BE USED FOR DEEP SPALL PATCHES THAT EXCEED 0.5 CUBIC YARD THRESHOLD IN A SINGLE AREA.

50. EACH PATCH MUST BE CRACK SEALED PAID UNDER ITEM 628011 CRACK SEALING BRIDGE DECKS, APPROACH SLABS, SIDEWALKS, ETC.

51. WHEN REHABBING BRIDGES WITHOUT DECK PANS OVER ROADWAYS OR WITH ACTIVE TRAFFIC, NO DEBRIS WILL BE PERMITTED TO FALL ON THE ROADWAY BELOW. CONTRACTOR SHALL USE ITEM 604005 PROTECTIVE SHIELD TO PROTECT VEHICULAR TRAFFIC. ALL SHIELDING SHOULD MEET THE REQUIREMENTS OUTLINED IN SECTION 604.03.4.

52. THE STANDARD SPECIFICATION FOR ITEMS 625000 (LATEX-MODIFIED CONCRETE OVERLAY INSTALLATION) AND 625001 (FURNISHING LATEX-MODIFIED CONCRETE OVERLAY) ARE HEREBY MODIFIED TO SUBSTITUTE CLASS D CONCRETE AS THE OVERLAY MATERIAL, INSTEAD OF LATEX-MODIFIED CONCRETE. CLASS D CONCRETE SHALL CONFORM TO THE REQUIREMENTS OF SECTION 610 OF THE DEPARTMENT'S STANDARD SPECIFICATIONS.

53. THE CONTRACTOR SHALL VERIFY IN THE FIELD THE REQUIRED DIMENSIONS OF EACH OF THE PILE JACKETS. THE PAYMENT FOR INSTALLING THE PILE JACKETS, ITEM NO. 605504 – FRP JACKET AND EPOXY GROUT PILE ENCASEMENT, 18" ROUND PILE, SHALL BE BASED ON THE HEIGHT OF THE FLUTED PILES IN THE UNIT OF LINEAR FOOT. THE PILES TO BE JACKETED ARE FLUTED AND THERE WILL BE NO EXTRA PAYMENT FOR ANY DEVIATION OF CROSS-SECTION DIMENSIONS OF THE PILES. THE MINIMUM SPACE BETWEEN THE PILE AND THE PILE JACKET SHALL BE 2". THE INSTALLED PILE JACKETS ON PIERS SHALL EXTEND FROM THE BOTTOM OF THE PIER CAP TO THREE (3) FEET BELOW THE MUDLINE. THE PILE JACKETS SHALL BE INSPECTED BY THE ENGINEER UPON DELIVERY TO THE JOBSITE FOR CORRECTNESS OF MATERIAL, DIMENSIONS, AND FOR ANY DAMAGE OCCURRED DURING SHIPPING AND HANDLING.

54. EXCAVATION, REMOVAL OF ANY DEBRIS OR ANY OTHER UNFORESEEN OBJECTS THAT MAY INTERFERE WITH THE INSTALLATION OF THE PILE JACKETS AND REINSTALLMENT OF THE STREAMBED MATERIAL REQUIRED FOR INSTALLING THE PILE JACKETS, IF NEEDED, SHALL BE INCIDENTAL TO ITEM NO. 605504 – FRP JACKET AND EPOXY GROUT PILE ENCASEMENT, 18" ROUND PILE. TURBIDITY CURTAINS SHALL BE INSTALLED AROUND BOTH SIDES OF EACH PIER, WHICH IS BEING WORKED ON, TO ENCLOSE THE WORK AREA BEFORE ANY WORK IS TO BEGIN. INSTALLING AND MAINTAINING ALL TURBIDITY CURTAINS SHALL BE PAID UNDER ITEM NO. 909004 - TURBIDITY CURTAIN, FLOATING

55. THE CAST IN PLACE PILES ARE TO BE CLEANED OF ALL MARINE GROWTH, LOOSE RUST, SCALE OR LOOSE COATING IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATION DURING LOW WATER CONDITIONS ONLY. THE CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVING THE EXISTING COAL TAR EPOXY AND RUST ON THE PILES, STORE THE MATERIALS, AND DISPOSE OF THE MATERIALS IN ACCORDANCE WITH ALL DNREC AND FEDERAL EPA REGULATIONS AS DIRECTED BY THE ENGINEER. THE PILES MUST BE INSPECTED FOR ANY SHARP EDGES. IF ANY SHARP EDGES EXIST, THEY MUST BE REMOVED. THE CONTRACTOR SHALL IDENTIFY THE FACILITY OR FACILITIES WHERE THEY EPOXY AND RUST ARE GOING TO BE SENT PRIOR TO THE START OF THE WORK ACTIVITIES.

56. AFTER PAVEMENT MILLING, ALL TRANSVERSE VERTICAL DIFFERENCES, RAISED EDGES OF MANHOLES, CATCH BASINS, WATER VALVE BOXES, ETC. SHALL BE RAMPED WITH HOT-MIX TRM AT A 20:1 OR FLATTER SLOPE PRIOR TO OPENING THE ROADWAY TO TRAFFIC. PAVEMENT MILLINGS WILL

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NOTES

NOT BE ALLOWED FOR THIS PURPOSE. ALL TRM SHALL BE INCIDENTAL TO THE ITEM CAUSING THE VERTICAL DIFFERENCE.

57. ALL PAVING, INCLUDING TURN LANES, SHOULDERS AND INTERSECTIONS, IS TO BE COMPLETED 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 TIME CHARGES CONTINUING TO BE ASSESSED.

58. WHEN CLEANING AFTER A ROTOMILLING OPERATION, THE CONTRACTOR SHALL TAKE CARE IN REMOVING PAVEMENT AROUND UTILITIES, BUTT JOINTS, CURBS, ETC. SO AS TO NOT DISTURB THE EXISTING PAVEMENT BEYOND THE SPECIFIED DEPTH. ANY DAMAGE CAUSED BY CONTRACTORS OPERATION MAY RESULT IN PLACING LEVELING COURSES AT THE CONTRACTOR'S EXPENSE. THE REMOVAL AND CLEAN UP OF THE HOT MIX RESIDUE WEDGE REMAINING AFTER ROTOMILLING OPERATIONS SHALL BE INCIDENTAL TO THE ROTOMILLING ITEM. THE REMOVAL OF EXISTING RAISED PAVEMENT MARKERS (RPM'S) SHALL BE INCIDENTAL TO THE APPLICABLE ROTOMILLING ITEMS.

59. 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.

60. 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.

61. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROPER PLACEMENT OF ALL REMEDIAL DEVICES REQUIRED TO INSURE NO DEBRIS FROM CONSTRUCTION ARE ENTERED INTO STREAMS OR BODIES OF WATER AND/OR ONTO A ROADWAY LOCATED BENEATH THE STRUCTURE.

62. IT IS ANTICIPATED THAT ALL WORK WILL OCCUR WITHIN DELDOT'S EXISTING RIGHT OF WAY OR EASEMENT AREAS. SHOULD THE NEED OCCUR TO TRESPASS ONTO PRIVATE PROPERTY; IT WILL BE THE RESPONSIBILITY OF THE PROJECT MANAGER TO SECURE SUCH TRESPASS NEEDS.

63. SHOULD THE NEED OCCUR TO TRESPASS ONTO RAILROAD PROPERTY, INCLUDING THE HIGHWAY-RAIL CROSSING; IT WILL BE THE RESPONSIBILITY OF THE PROJECT MANAGER TO CONTACT THE RAILROAD CHIEF ENGINEER AND OBTAIN WRITTEN AUTHORIZATION BEFORE ENTERING.

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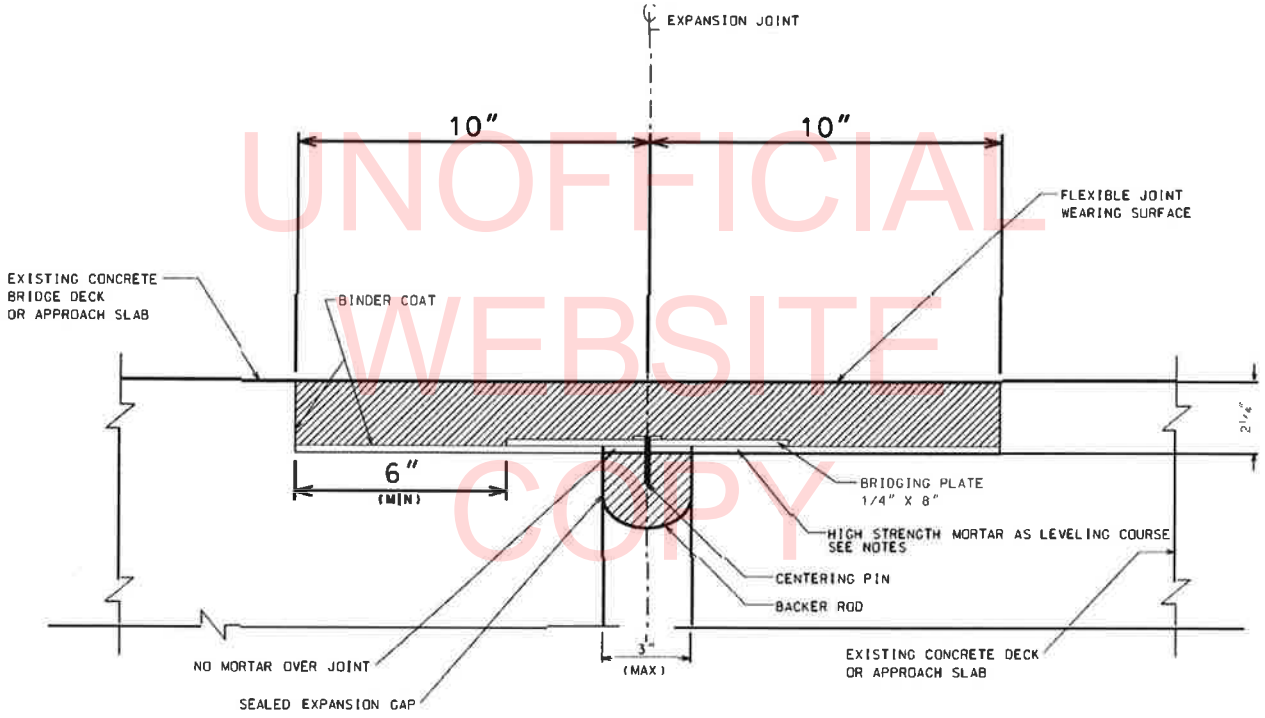
ASPHALTIC PLUG JOINT



NOTE 1: MORTAR TO BE USED FOR LEVELING.
SEE PROJECT NOTES FOR MATERIAL SPECIFICATIONS
(INCIDENTAL TO PAY ITEM 624009)

NOTE 2: LEVELING COURSE SHALL BE FLAT AND LEVEL
TO ENSURE CONTINUAL SUPPORT OF BRIDGING PLATE.

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CENTRAL MAINTENANCE STRUCTURE MAINTENANCE, CENTRAL DISTRICT, FY19-21

LOCATION 1 **(OPEN END, VARIOUS LOCATIONS) FROM TO**

LENGTH m L.F.

GENERAL IMPROVEMENTS

STRUCTURE MAINTENANCE

COMMENTS:

MATERIAL ESTIMATE FOR LOCATION 1

202000	EXCAVATION AND EMBANKMENT	52.00 C.Y.
207000	STRUCTURAL EXCAVATION	95.00 C.Y.
208000	FLOWABLE FILL	15.00 C.Y.
209002	BORROW, TYPE B	75.00 C.Y.
209005	FURNISHING BORROW, TYPE C FOR PIPE AND UTILITY TRENCH BACKFILL	90.00 C.Y.
211001	REMOVAL OF PORTLAND CEMENT CONCRETE PAVEMENT, CURB AND SIDEWALK	120.00 S.Y.
301001	GRADED AGGREGATE BASE COURSE, TYPE B	100.00 C.Y.
301002	GRADED AGGREGATE BASE COURSE, TYPE B, PATCHING	120.00 C.Y.
302002	DELAWARE NO. 3 STONE	45.00 TON
401005	SUPERPAVE TYPE C, PG 64-22 (CARBONATE STONE)	100.00 TON
401014	SUPERPAVE TYPE B, PG 64-22	95.00 TON
401029	SUPERPAVE TYPE C, PG 64-22, PATCHING	71.00 TON
401030	SUPERPAVE TYPE B, PG 64-22, PATCHING	85.00 TON
401500	FOG SEAL	800.00 GAL
402000	BITUMINOUS CONCRETE PATCHING	2,100.00 SY-IN
604005	PROTECTIVE SHIELD	900.00 S.F.
605504	FRP JACKET AND EPOXY GROUT PILE ENCASEMENT, 18" ROUND PILE	100.00 L.F.
608000	STEEL SHEET PILES, PZ 22	600.00 S.F.
608010	STEEL SHEET PILES, PZC 13	2,692.00 S.F.
610000	PORTLAND CEMENT CONCRETE MASONRY, CLASS A	35.00 C.Y.
610016	PORTLAND CEMENT CONCRETE MASONRY, CLASS D	35.00 C.Y.
610505	PARTIAL REMOVAL OF PORTLAND CEMENT CONCRETE MASONRY	34.00 C.Y.
610511	SOIL AND PAVEMENT STRUCTURE STABILIZATION AND LIFTING	13,600.00 LB
611000	BAR REINFORCEMENT	418.00 LB
611001	BAR REINFORCEMENT, EPOXY COATED	960.00 LB
613000	EPOXY CONCRETE SEALER	1,800.00 S.F.
613001	SILICONE-BASED ACRYLIC CONCRETE SEALER	1,800.00 S.F.

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LOCATION 1 **(OPEN END, VARIOUS LOCATIONS) FROM TO**

LENGTH m L.F.

GENERAL IMPROVEMENTS

STRUCTURE MAINTENANCE

COMMENTS:

MATERIAL ESTIMATE FOR LOCATION 1

613003	HIGH MOLECULAR WEIGHT METHACRYLATE CONCRETE SEALER	1,850.00 S.F.
613004	WATERPROOFING MEMBRANE, TRAFFIC BEARING	1,900.00 S.F.
613005	WATERPROOFING MEMBRANE, NON-TRAFFIC BEARING	2,650.00 S.F.
615007	WELDING REPAIR	80.00 L.F.
616501	MOISTURE CURED URETHANE PAINT SYSTEM (RECOATING, S.F.)	1,350.00 S.F.
623004	CLEAN AND GREASE BRIDGE BEARINGS	30.00 EACH
624000	PREFABRICATED EXPANSION JOINT SYSTEM, 3"	120.00 L.F.
624009	ASPHALTIC PLUG JOINT	120.00 L.F.
624010	SILICONE JOINT SEAL, 1"	149.00 L.F.
624011	SILICONE JOINT SEAL, 2"	142.00 L.F.
624012	SILICONE JOINT SEAL, 3"	141.00 L.F.
624015	COMPRESSION SEAL, 3"	133.00 L.F.
624502	SILICONE COATED FOAM JOINT SEAL	133.00 L.F.
625000	LATEX MODIFIED CONCRETE OVERLAY INSTALLATION	1,100.00 SY-IN
625001	FURNISHING LATEX-MODIFIED CONCRETE OVERLAY	28.00 C.Y.
628001	REPAIR OF CONCRETE STRUCTURE BY EPOXY INJECTION	300.00 L.F.
628011	CRACK SEALING BRIDGE DECKS, APPROACH SLABS, SIDEWALKS, ETC	570.00 L.F.
628020	ROUT AND SEAL CRACKS	240.00 L.F.
628040	SHALLOW SPALL REPAIR	60.00 C.F.
628041	DEEP SPALL REPAIR	60.00 C.F.
628042	REHABILITATION OF PORTLAND CEMENT CONCRETE MASONRY	11.00 C.Y.
628051	DECK REPAIR, 1" TO 3" DEPTH	210.00 S.F.
628052	DECK REPAIR, 3" TO < FULL DEPTH	190.00 S.F.
628053	DECK REPAIR, FULL DEPTH	100.00 S.F.
628070	DRILLING HOLES AND INSTALLING DOWELS	100.00 EACH
628500	EMBEDDED GALVANIC ANODES	30.00 EACH
628501	DECK REPAIR, POLYESTER POLYMER CONCRETE	125.00 SY-IN

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CENTRAL MAINTENANCE STRUCTURE MAINTENANCE, CENTRAL DISTRICT, FY19-21

LOCATION 1 (OPEN END, VARIOUS LOCATIONS) FROM TO

LENGTH m L.F.

GENERAL IMPROVEMENTS

STRUCTURE MAINTENANCE

COMMENTS:

MATERIAL ESTIMATE FOR LOCATION 1

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707015	RIPRAP, R-4	40.00 TON
707016	RIPRAP, R-5	40.00 TON
708003	GEOTEXTILES, RIPRAP	220.00 S.Y.
720034	GALVANIZED STEEL BEAM GUARDRAIL, TYPE 1-27	65.00 L.F.
760010	PAVEMENT MILLING, BITUMINOUS CONCRETE PAVEMENT	900.00 SY-IN
760013	PAVEMENT MILLING, PORTLAND CEMENT CONCRETE PAVEMENT	900.00 SY-IN
762000	SAW CUTTING, BITUMINOUS CONCRETE	450.00 L.F.
762001	SAW CUTTING, CONCRETE, FULL DEPTH	450.00 L.F.
802003	ARROW PANELS TYPE C	100.00 EA-DY
803001	FURNISH AND MAINTAIN PORTABLE CHANGEABLE MESSAGE SIGN	60.00 EA-DY
804001	FURNISH AND MAINTAIN PORTABLE LIGHT ASSEMBLY (FLOOD LIGHTS)	50.00 EA-DY
805001	PLASTIC DRUMS	1,502.00 EA-DY
806001	TRAFFIC OFFICERS	20.00 HOUR
807002	FURNISH AND INSTALL TEMPORARY PORTLAND CEMENT CONCRETE SAFETY BARRIER, PINNED IN BITUMINOUS PAVEMENT	550.00 L.F.
807007	REFLECTOR PANELS	140.00 EACH
807010	REMOVE TEMPORARY PORTLAND CEMENT CONCRETE SAFETY BARRIER, PINNED IN BITUMINOUS PAVEMENT	550.00 L.F.
808002	FURNISH AND MAINTAIN TRUCK MOUNTED ATTENUATOR, TYPE II	60.00 EA-DY
809001	INSTALL TEMPORARY IMPACT ATTENUATOR	3.00 EACH
809005	FURNISH TEMPORARY IMPACT ATTENUATOR - NON-GATING, REDIRECTIVE, TEST LEVEL 3	3.00 EACH
810001	TEMPORARY WARNING SIGNS AND PLAQUES	1,500.00 EA-DY
811002	FLAGGER, KENT COUNTY, STATE	320.00 HOUR
811014	FLAGGER, KENT COUNTY, STATE, OVERTIME	40.00 HOUR
813001	TEMPORARY BARRICADES, TYPE III	1,200.00 LFDY
817009	TEMPORARY MARKINGS, TAPE, 4"	1,800.00 L.F.
817013	PERMANENT PAVEMENT STRIPING, EPOXY RESIN PAINT, WHITE/YELLOW, 5"	1,700.00 L.F.
817031	REMOVAL OF PAVEMENT STRIPING	900.00 S.F.
817032	REMOVAL OF PAVEMENT MARKING TAPE	900.00 S.F.

LOCATION 1 **(OPEN END, VARIOUS LOCATIONS) FROM TO**

LENGTH m L.F.

GENERAL IMPROVEMENTS

STRUCTURE MAINTENANCE

COMMENTS:

MATERIAL ESTIMATE FOR LOCATION 1

908014	PERMANENT GRASS SEEDING, DRY GROUND	394.00 S.Y.
908020	EROSION CONTROL BLANKET MULCH	260.00 S.Y.
909004	TURBIDITY CURTAIN, FLOATING	380.00 L.F.

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CONTRACT QUANTITIES SUMMARY SHEET

202000	EXCAVATION AND EMBANKMENT	52.00 C.Y.
207000	STRUCTURAL EXCAVATION	95.00 C.Y.
208000	FLOWABLE FILL	15.00 C.Y.
209002	BORROW, TYPE B	75.00 C.Y.
209005	FURNISHING BORROW, TYPE C FOR PIPE AND UTILITY TRENCH BACKFILL	90.00 C.Y.
211001	REMOVAL OF PORTLAND CEMENT CONCRETE PAVEMENT, CURB AND SIDEWALK	120.00 S.Y.
301001	GRADED AGGREGATE BASE COURSE, TYPE B	100.00 C.Y.
301002	GRADED AGGREGATE BASE COURSE, TYPE B, PATCHING	120.00 C.Y.
302002	DELAWARE NO. 3 STONE	45.00 TON
401005	SUPERPAVE TYPE C, PG 64-22 (CARBONATE STONE)	100.00 TON
401014	SUPERPAVE TYPE B, PG 64-22	95.00 TON
401029	SUPERPAVE TYPE C, PG 64-22, PATCHING	71.00 TON
401030	SUPERPAVE TYPE B, PG 64-22, PATCHING	85.00 TON
401500	FOG SEAL	800.00 GAL
402000	BITUMINOUS CONCRETE PATCHING	2,100.00 SY-IN
604005	PROTECTIVE SHIELD	900.00 S.F.
605504	FRP JACKET AND EPOXY GROUT PILE ENCASEMENT, 18" ROUND PILE	100.00 L.F.
608000	STEEL SHEET PILES, PZ 22	600.00 S.F.
608010	STEEL SHEET PILES, PZC 13	2,692.00 S.F.
610000	PORTLAND CEMENT CONCRETE MASONRY, CLASS A	35.00 C.Y.
610016	PORTLAND CEMENT CONCRETE MASONRY, CLASS D	35.00 C.Y.
610505	PARTIAL REMOVAL OF PORTLAND CEMENT CONCRETE MASONRY	34.00 C.Y.
610511	SOIL AND PAVEMENT STRUCTURE STABILIZATION AND LIFTING	13,600.00 LB
611000	BAR REINFORCEMENT	418.00 LB
611001	BAR REINFORCEMENT, EPOXY COATED	960.00 LB
613000	EPOXY CONCRETE SEALER	1,800.00 S.F.
613001	SILICONE-BASED ACRYLIC CONCRETE SEALER	1,800.00 S.F.
613003	HIGH MOLECULAR WEIGHT METHACRYLATE CONCRETE SEALER	1,850.00 S.F.
613004	WATERPROOFING MEMBRANE, TRAFFIC BEARING	1,900.00 S.F.

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CONTRACT QUANTITIES SUMMARY SHEET

613005	WATERPROOFING MEMBRANE, NON-TRAFFIC BEARING	2,650.00 S.F.
615007	WELDING REPAIR	80.00 L.F.
616501	MOISTURE CURED URETHANE PAINT SYSTEM (RECOATING, S.F.)	1,350.00 S.F.
623004	CLEAN AND GREASE BRIDGE BEARINGS	30.00 EACH
624000	PREFABRICATED EXPANSION JOINT SYSTEM, 3"	120.00 L.F.
624009	ASPHALTIC PLUG JOINT	120.00 L.F.
624010	SILICONE JOINT SEAL, 1"	149.00 L.F.
624011	SILICONE JOINT SEAL, 2"	142.00 L.F.
624012	SILICONE JOINT SEAL, 3"	141.00 L.F.
624015	COMPRESSION SEAL, 3"	133.00 L.F.
624502	SILICONE COATED FOAM JOINT SEAL	133.00 L.F.
625000	LATEX MODIFIED CONCRETE OVERLAY INSTALLATION	1,100.00 SY-IN
625001	FURNISHING LATEX-MODIFIED CONCRETE OVERLAY	28.00 C.Y.
628001	REPAIR OF CONCRETE STRUCTURE BY EPOXY INJECTION	300.00 L.F.
628011	CRACK SEALING BRIDGE DECKS, APPROACH SLABS, SIDEWALKS, ETC	570.00 L.F.
628020	ROUT AND SEAL CRACKS	240.00 L.F.
628040	SHALLOW SPALL REPAIR	60.00 C.F.
628041	DEEP SPALL REPAIR	60.00 C.F.
628042	REHABILITATION OF PORTLAND CEMENT CONCRETE MASONRY	11.00 C.Y.
628051	DECK REPAIR, 1" TO 3" DEPTH	210.00 S.F.
628052	DECK REPAIR, 3" TO < FULL DEPTH	190.00 S.F.
628053	DECK REPAIR, FULL DEPTH	100.00 S.F.
628070	DRILLING HOLES AND INSTALLING DOWELS	100.00 EACH
628500	EMBEDDED GALVANIC ANODES	30.00 EACH
628501	DECK REPAIR, POLYESTER POLYMER CONCRETE	125.00 SY-IN
707015	RIPRAP, R-4	40.00 TON
707016	RIPRAP, R-5	40.00 TON
708003	GEOTEXTILES, RIPRAP	220.00 S.Y.
720034	GALVANIZED STEEL BEAM GUARDRAIL, TYPE 1-27	65.00 L.F.

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CONTRACT QUANTITIES SUMMARY SHEET

760010	PAVEMENT MILLING, BITUMINOUS CONCRETE PAVEMENT	900.00 SY-IN
760013	PAVEMENT MILLING, PORTLAND CEMENT CONCRETE PAVEMENT	900.00 SY-IN
762000	SAW CUTTING, BITUMINOUS CONCRETE	450.00 L.F.
762001	SAW CUTTING, CONCRETE, FULL DEPTH	450.00 L.F.
763000	INITIAL EXPENSE/DE-MOBILIZATION	LUMP SUM
802003	ARROW PANELS TYPE C	100.00 EA-DY
803001	FURNISH AND MAINTAIN PORTABLE CHANGEABLE MESSAGE SIGN	60.00 EA-DY
804001	FURNISH AND MAINTAIN PORTABLE LIGHT ASSEMBLY (FLOOD LIGHTS)	50.00 EA-DY
805001	PLASTIC DRUMS	1,502.00 EA-DY
806001	TRAFFIC OFFICERS	20.00 HOUR
807002	FURNISH AND INSTALL TEMPORARY PORTLAND CEMENT CONCRETE SAFETY BARRIER, PINNED IN BITUMINOUS PAVEMENT	550.00 L.F.
807007	REFLECTOR PANELS	140.00 EACH
807010	REMOVE TEMPORARY PORTLAND CEMENT CONCRETE SAFETY BARRIER, PINNED IN BITUMINOUS PAVEMENT	550.00 L.F.
808002	FURNISH AND MAINTAIN TRUCK MOUNTED ATTENUATOR, TYPE II	60.00 EA-DY
809001	INSTALL TEMPORARY IMPACT ATTENUATOR	3.00 EACH
809005	FURNISH TEMPORARY IMPACT ATTENUATOR - NON-GATING, REDIRECTIVE, TEST LEVEL 3	3.00 EACH
810001	TEMPORARY WARNING SIGNS AND PLAQUES	1,500.00 EA-DY
811002	FLAGGER, KENT COUNTY, STATE	320.00 HOUR
811014	FLAGGER, KENT COUNTY, STATE, OVERTIME	40.00 HOUR
813001	TEMPORARY BARRICADES, TYPE III	1,200.00 LFDY
817009	TEMPORARY MARKINGS, TAPE, 4"	1,800.00 L.F.
817013	PERMANENT PAVEMENT STRIPING, EPOXY RESIN PAINT, WHITE/YELLOW, 5"	1,700.00 L.F.
817031	REMOVAL OF PAVEMENT STRIPING	900.00 S.F.
817032	REMOVAL OF PAVEMENT MARKING TAPE	900.00 S.F.
908014	PERMANENT GRASS SEEDING, DRY GROUND	394.00 S.Y.
908020	EROSION CONTROL BLANKET MULCH	260.00 S.Y.

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CONTRACT QUANTITIES SUMMARY SHEET

909004	TURBIDITY CURTAIN, FLOATING	380.00 L.F.

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