THE STATE OF DELAWARE

DEPARTMENT OF TRANSPORTATION
OFFICE OF TRANSPORTATION SOLUTIONS
CONSTRUCTION PLANS AND SPECIFICATIONS FOR

PAVEMENT & REHABILITATION, SUSSEX I, (US13, SUSSEX HWY - SEAFORD) 2020

CONTRACT NUMBER - T202006301.01 **PRIMAVERA ID – 20-06301**

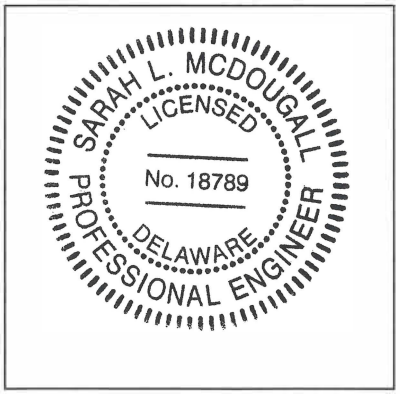
FEDERAL AID NUMBER - NH-S003(15) **COUNTY: SUSSEX**

PLANS PREPARED BY: Paul Farkas

DESIGNER

Sarah McDougall 7/2/2020

DELDOT – TRANSPORTATION SOLUTIONS DATE
PAVEMENT MANAGEMENT - (PM)



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

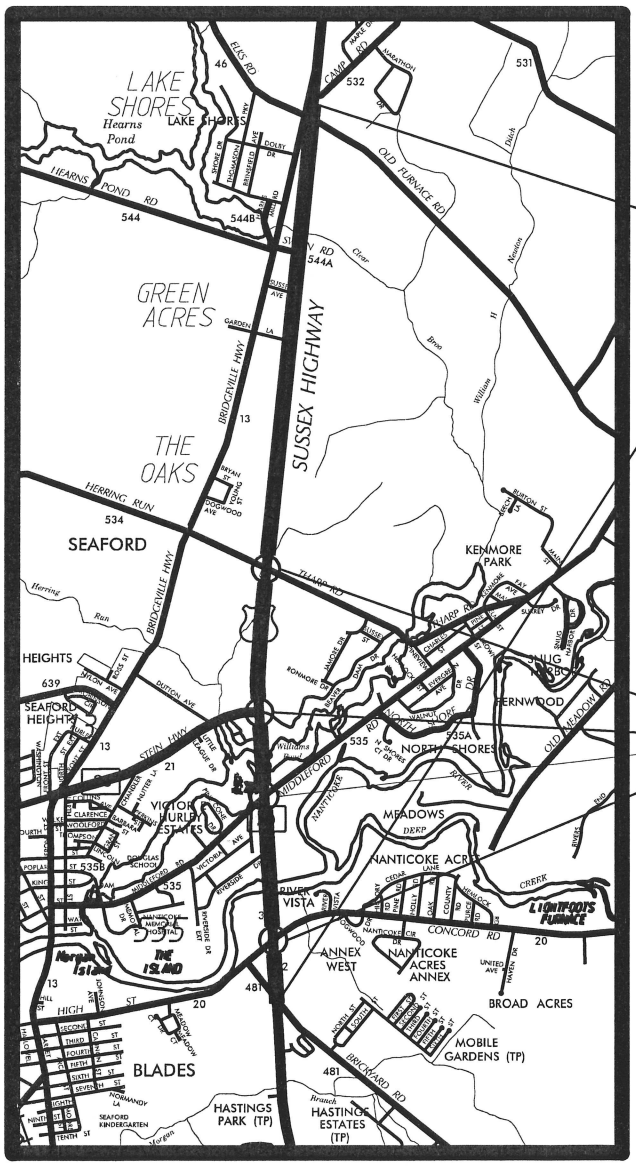
APPROVED FOR ADVERTISEMENT

J. P. 7.8.20

FOR DIRECTOR OF TRANSPORTATION SOLUTIONS DATE

US 13, SUSSEX HIGHWAY - (SEAFORD), NORTHBOUND AND SOUTHBOUND

LOCATION MAP



Location 1

US13, Sussex Hwy., NB&SB
from Brickyard Rd
to pavement joints past
Elks/Old Furnace Rd.

Project limits do not include these intersections.

GENERAL CONTRACT PLAN NOTES

REVISED - JUNE 2018

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, DELAWARE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES AND THESE PLANS.

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

3. THE CONTRACTOR SHALL PROVIDE ALL RESIDENTS AND BUSINESSES WHO LIVE ADJACENT TO THE WORK ZONE 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. ACCESS TO ALL BUSINESSES AND RESIDENCES WITHIN THE PROJECT LIMITS SHALL BE MAINTAINED THROUGHOUT THE DURATION OF THIS CONTRACT. ANY TEMPORARY CLOSURE OF A DRIVEWAY FOR TIE-IN PURPOSES SHALL BE COORDINATED WITH THE ENGINEER AND/OR PROPERTY OWNER IN ADVANCE OF THE CLOSURE.

4. 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.

5. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING THE REQUIRED CLEARANCES AND INSURANCES FOR EACH RAILWAY COMPANY INVOLVED IF THE RAILROAD PROPERTY AND/OR FACILITES ARE LOCATED WITHIN OR NEAR THE PROPOSED LIMITS OF WORK AND/OR IF THE PROPOSED WORK ENCROACHES UPON THE RAILROAD'S RIGHT-OF-WAY, IN ACCORDANCE WITH DELDOT MAINTENANCE OF RAILROAD TRAFFIC ITEM NO. 801501. THE CONTRACTOR MUST CONTACT DELDOT'S RAILROAD SECTION MANAGER AT (302) 760-2183 PRIOR TO ANY WORK STARTED TO COORDINATE THE EXECUTION OF THE APPROPRIATE AGREEMENTS AND AUTHORIZATIONS REQUIRED FROM ANY RAILWAY COMPANY INVOLVED, INCLUDING COORDINATION FOR RAILROAD FLAGGING, IF NECESSARY.

MAINTENANCE OF TRAFFIC

6. **PERMANENT ADVANCE WARNING SIGNS WITH THE LEGENDS "ROAD WORK AHEAD" SHALL BE PLACED ON THE APPROACHES TO THE WORK AREA AND "END ROAD WORK" SIGNS SHALL BE PLACED BEYOND THE WORK AREA LIMITS IN BOTH DIRECTIONS.** ON ALL INTERSECTING ROADS, INSTALL "ROAD WORK AHEAD" SIGNS 500 FEET IN ADVANCE OF THE WORK AREA AND "END ROAD WORK" SIGNS 500 FEET BEYOND THE WORK AREA**.** ALL PERMANENT ADVANCE WARNING SIGNS SHALL BE GROUND-MOUNTED ON TWO NCHRP-350 OR MASH APPROVED BREAKAWAY POSTS AND SHALL BE MOUNTED IN COMPLIANCE WITH THE DE-MUTCD. PERMANENT ADVANCE WARNING SHALL BE MOUNTED AT A HEIGHT OF 7 FEET, MEASURED FROM THE PAVEMENT GRADE TO THE BOTTOM OF THE SIGN. THE USE OF SKID-MOUNTED SIGN SUPPORTS IS NOT

GENERAL CONTRACT PLAN NOTES

ALLOWED UNLESS THE CONTRACTOR CAN DEMOSTRATE THAT A UTILITY CONFLICT EXISTS AND/ OR CONCRETE MEDIANS PREVENT THE INSTALLATION OF THE PERMANENT SIGNS IN THE APPROPRIATE LOCATION WHICH SHALL BE VERIFIED BY THE ENGINEER.

7. PORTABLE CHANGEABLE MESSAGE SIGNS (PCMS) SHALL BE PLACED IN BOTH DIRECTIONS 10 DAYS IN ADVANCE OF CONSTRUCTION THROUGH 5 DAYS AFTER THE START OF CONSTRUCTION, AS WELL AS PRIOR TO ANY MAJOR TRAFFIC PATTERN CHANGES. ALL PCMS MESSAGES SHALL BE APPROVED BY THE DISTRICT SAFETY OFFICER.

8. THE CONTRACTOR SHALL BE REQUIRED TO SHOW PROOF THAT HE HAS SUFFICIENT APPROVED STRIPING MATERIALS ON HAND TO ENSURE STRIPING IS COMPLETED PRIOR TO FULL OPENING ROADWAY TO TRAFFIC.

9. 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, SHALL BE INSTALLED IN ACCORDANCE WITH THE TEMPORARY STRIPING POLICY. 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 CONTRACTOR'S EXPENSE.

10. 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 2011 DELAWARE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES, PART 6, INCLUDING ALL REVISIONS UP TO THE DATE OF ADVERTISEMENT FOR BIDS.

11. 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 INCIDENTAL TO ITEM 801500 - MAINTENANCE OF TRAFFIC, ALL INCLUSIVE.

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 BUSINESSES AND RESIDENCES AT ALL TIMES.

GENERAL CONTRACT PLAN NOTES

- PROVIDE PEDESTRIAN ACCESS THROUGH 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.

12. AN AMERICAN TRAFFIC SAFETY SERVICES ASSOCIATION (ATSSA) CERTIFIED TRAFFIC CONTROL SUPERVISOR SHALL BE REQUIRED FOR ALL LOCATIONS SPECIFIED IN THE CONTRACT PLANS. A COPY OF THE CERTIFICATION CARD FOR THE ATSSA TRAFFIC CONTROL SUPERVISOR SHALL BE SUBMITTED AT THE PRECONSTRUCTION MEETING. THE PAPER CERTIFICATE IS NOT ACCEPTABLE.

PAVEMENT MARKINGS

13. 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 DEPARTMENT'S 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 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. ALL DOUBLE YELLOW CENTERLINES SHALL BE PLACED IN A 5-6-5 CONFIGURATION (2 EACH, 5" YELLOW STRIPES WITH A 6" GAP BETWEEN).

14. 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.

15. STOP LINES "BARS" SHALL BE INSTALLED IN ACCORDANCE WITH SECTION 3B.16 OF THE 2011 DELAWARE MUTCD.

GENERAL CONTRACT PLAN NOTES

16. ALL CROSSWALKS SHALL BE INSTALLED IN ACCORDANCE WITH SECTION 3B.18 OF THE 2011 DELAWARE MUTCD.

TRAFFIC SIGNAL NOTES

17. TRAFFIC DETECTION LOOPS SHALL BE PLACED IN THE FINAL WEARING SURFACE UNLESS OTHERWISE DIRECTED BY THE ENGINEER.

18. TRAFFIC DETECTION LOOPS THAT ARE CURRENTLY 5'x7' SHALL BE REPLACED WITH LOOPS THAT ARE 6'x6' AT THE SAME LOCATION. STOP BAR DETECTION LOOPS SHALL BE THE SAME SIZE AS CURRENTLY EXISTING, AND SHOULD BE PLACED STARTING TWO FEET BEHIND THE STOP BAR, UNLESS OTHERWISE DIRECTED BY THE ENGINEER. IF SEPARATE SIGNAL PLANS HAVE BEEN DEVELOPED, THE PLANS SUPERSEDE THIS NOTE.

PROJECT

19. UNLESS SPECIFIED, OVERLAY WIDTHS SHALL MATCH EXISTING WIDTHS.

20. THE COST OF CLIPPING BACK THE EDGES OF THE ROADWAY, SHOULDERS, AND THE FIRST 3' OF UNPAVED DRIVEWAY ENTRANCES, PICKING UP AND DISPOSING OF WASTE AND EXCESS MATERIAL, AND CLEANING THE EXISTING PAVEMENT PRIOR TO OVERLAY SHALL BE INCIDENTAL TO SECTION 401( ). PREPARING UNPAVED DRIVEWAY ENTRANCES BEYOND THE FIRST 3' SHALL BE PAID UNDER THE APPROPRIATE CONTRACT ITEMS: 202000 AND/OR 30100X.

21. BUTT JOINTS SHALL BE PLACED AT ALL INTERSECTING HOT MIX ROADS AND ANY OTHER LOCATIONS AS DIRECTED BY THE ENGINEER. BUTT JOINTS AT DRAINAGE STRUCTURES NOT TO BE RESURFACED SHALL BE AS PER THE INCLUDED PLAN DETAIL OR LOCATION NOTES. BUTT JOINTS CUT PRIOR TO THE DAY OF THE PAVEMENT OVERLAY SHALL BE RAMPED WITH HOT MIX TRM. IN MILLING AREAS, THERE WILL BE NO SEPARATE PAYMENT FOR BUTT JOINTS. 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 NOT BE ALLOWED FOR USE AS RAMPING MATERIAL.

22. 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. THE COMPUTED DEPTH FOR PAYMENT PURPOSES IS THE AVERAGE OF THE TWO DEPTHS.

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

24. EXCAVATION FOR P.C.C. CURBS, SIDEWALK OR VALLEY GUTTER SHALL BE INCIDENTAL TO THE BID PRICE FOR THESE RESPECTIVE ITEMS. EXCAVATED MATERIAL, NOT NEEDED ON THE PROJECT, SHALL BE REMOVED FROM THE CONTRACT AT THE CONTRACTORS EXPENSE. ITEM 9080XX, TOPSOIL, SHALL BE USED AS BACKFILL MATERIAL FOR CURB AND SIDEWALK AS DIRECTED BY THE ENGINEER. TOPSOIL SHALL BE SCREENED/SIFTED SO AS NO MATERIAL GREATER THAN .5" IS PRESENT IN MATERIAL USED FOR BACKFILL. AT EACH LOCATION, BACKFILLING SHALL BE PERFORMED IMMEDIATELY UPON REMOVAL OF FORMS FOR CURB OR SIDEWALK WORK. COMPLETE RESTORATION, TOPSOIL, SEEDING, AND REMOVAL OF ALL MATERIALS FOR CURB & GUTTER OR SIDEWALK; SEALING OF VALLEY GUTTERS AND PARGING OF CATCH BASINS, SHALL BE COMPLETED WITHIN SEVEN (7) CALENDAR DAYS OF COMPLETION OF THE ITEM OF WORK. FAILURE TO COMPLY WILL RESULT IN A SUSPENSION OF ALL OTHER CONTRACT WORK WITH TIME CHARGES CONTINUING TO BE ASSESSED.

GENERAL CONTRACT PLAN NOTES

25. ALL ADJUSTMENTS SHALL BE MADE NO MORE THAN SEVEN (7) CALENDAR DAYS PRIOR TO THE PLACEMENT OF THE FINAL COURSE OF HOT MIX UNLESS OTHERWISE APPROVED BY THE ENGINEER. FAILURE TO COMPLY WILL RESULT IN A SUSPENSION OF ALL OTHER CONTRACT WORK WITH TIME CHARGES CONTINUING TO BE ASSESSED.

26. ALL PAVING, INCLUDING TURN LANES, SHOULDERS AND INTERSECTIONS, IS TO BE COMPLETED WITHIN SEVEN (7) CALENDAR DAYS FROM THE TIME THE AREA WAS MILLED. FAILURE TO COMPLY WILL RESULT IN A SUSPENSION OF ALL OTHER CONTRACT WORK WITH TIME CHARGES CONTINUING TO BE ASSESSED.

27. THE CONTRACTOR SHALL TAKE CARE IN REMOVING PAVEMENT AROUND UTILITIES, BUTT JOINTS, CURBING, ETC. SO THAT EXISTING PAVEMENT BEYOND THE SPECIFIED DEPTHS IS NOT DAMAGED. ANY DAMAGE CAUSED BY THE CONTRACTOR'S OPERATIONS MAY RESULT IN PLACING LEVELING COURSES AT THE CONTRACTOR'S EXPENSE. THE REMOVAL AND CLEAN UP OF THE HOT MIX RESIDUE WEDGE REMAINING AFTER MILLING OPERATIONS SHALL BE INCIDENTAL TO THE MILLING ITEM. THE REMOVAL OF EXISTING RAISED PAVEMENT MARKERS (RPM'S) SHALL BE INCIDENTAL TO THE APPLICABLE MILLING AND/OR RECLAMATION ITEMS.

28. 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.

29. DRAINAGE INLETS, WHICH ARE 4' OR GREATER IN DEPTH AND ARE SLATED FOR REPAIR WILL HAVE STEPS INSTALLED IN ACCORDANCE WITH SECTION 602.03.B.4 OF THE STANDARD SPECIFICATIONS. PAYMENT SHALL BE INCIDENTAL TO THE UNIT PRICE BID FOR ITEM 60213X.

30. THE PORTLAND CEMENT CONCRETE USED WITHIN ITEM 602132 - ADJUST AND REPAIR EXISTING MAN HOLES AND ITEM 710002 - ADJUST WATER VALVE BOX SHALL CONFORM TO THE REQUIREMENTS OF CLASS A CONCRETE AS STATED WITHIN SECTION 503.02 OF THE DEPARTMENT'S STANDARD SPECIFICATIONS.

PROJECT SPECIFIC NOTES

1. A PORTION OF THE MILLED MATERIAL SHALL REMAIN THE PROPERTY OF THE DEPARTMENT OF TRANSPORTATION AND BE DELIVERED TO THE FOLLOWING LOCATIONS BELOW.

2. CONTACT AND NOTIFY THE YARD SUPERVISOR ONE (1) WEEK PRIOR TO DELIVERY.

   a. **AREA 1 – LAUREL YARD (5000 TONS).***
   10930 SALT BARN RD
   LAUREL, DE 19956

   SUPERVISOR: WENDY MARKER

   ASST. SUPERVISOR: JEFF CLAUSEN

   PHONE: 302-875-1710
   CELL: 302-542-9521

   *DISTANCE TO YARD APPROX. 11 MILES.

   b. **AREA 2 - BRIDGEVILLE YARD (5000 TONS).***
   8583 EAST NEWTON RD
   BRIDGVILLE, DE 19933

   SUPERVISOR: DEXTER MASSEY

   ASST. SUPERVISOR: ERIC DISHAROON

   PHONE: 302-232-3500
   CELL: 302-542-9522

   *DISTANCE TO YARD APPROX. 7 MILES.

   c. **AREA 2 - SEAFORD YARD (1000 TONS).***
   22136 BRIDGEVILLE HWY
   SEAFORD, DE 19973

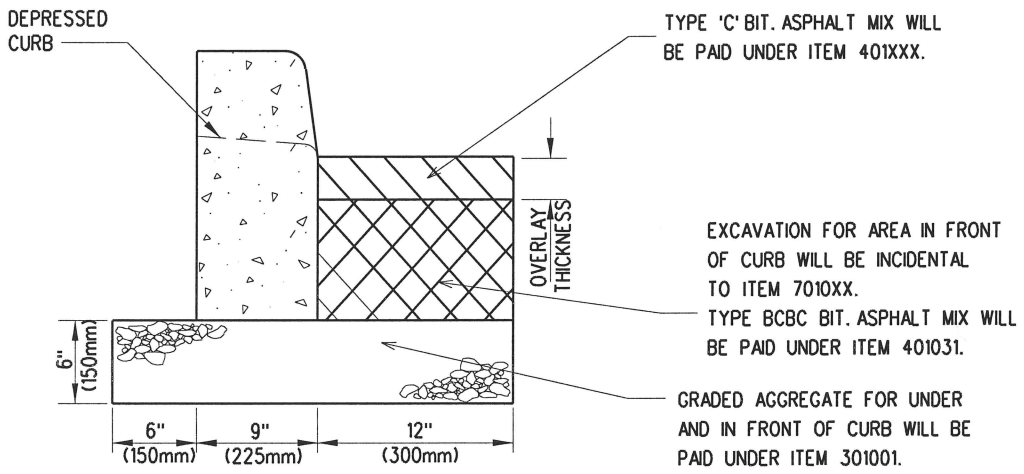
   SUPERVISOR: DEXTER MASSEY

   ASST. SUPERVISOR: ERIC DISHAROON

   PHONE: 302-232-3500
   CELL: 302-542-9522

   *DISTANCE TO YARD APPROX. 2 MILES.

DETAILS SHEET

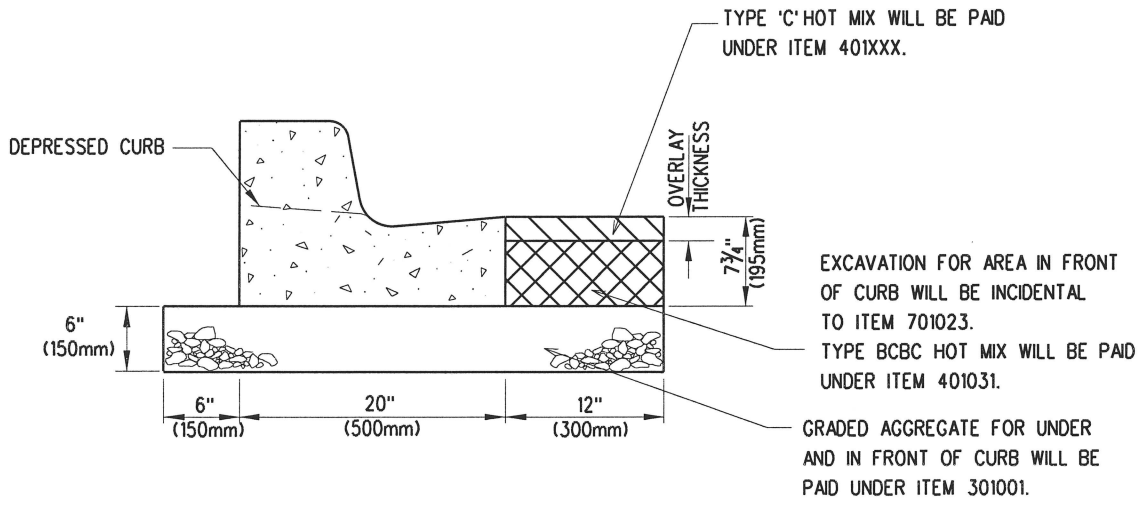


P.C.C. CURB TYPE 1-X*

N.T.S.

* NOTE: REFERENCE STANDARD CONSTRUCTION DETAILS FOR P.C.C. CURB TYPE 1-4 THROUGH TYPE 1-8.

DETAILS SHEET

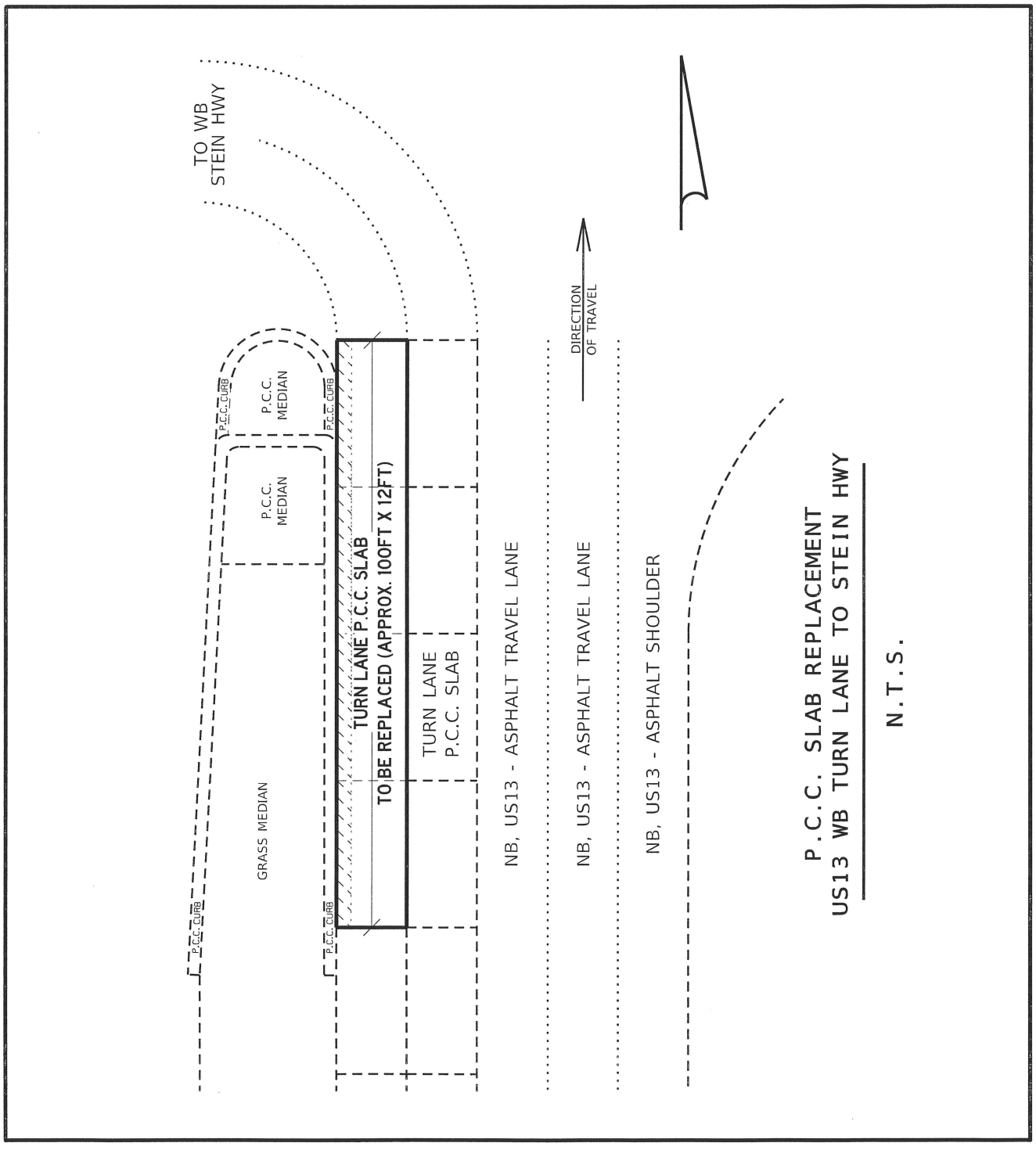


INTEGRAL P.C.C. CURB & GUTTER TYPE 3-X*

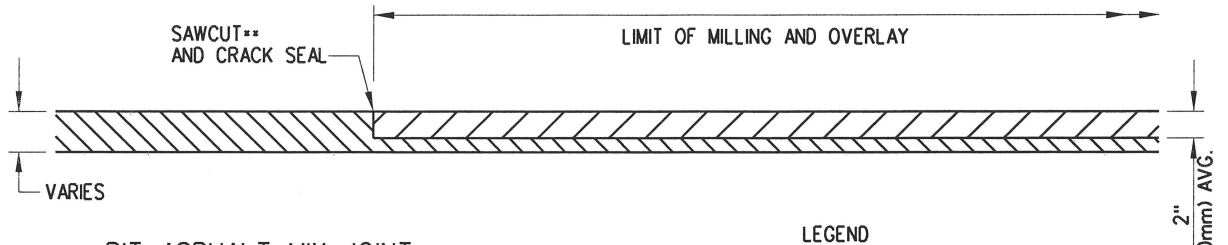
N.T.S.

* NOTE: REFERENCE STANDARD CONSTRUCTION DETAILS FOR CURB & GUTTER TYPE 3-2 TO 3-8.

DETAILS SHEET



DETAILS SHEET



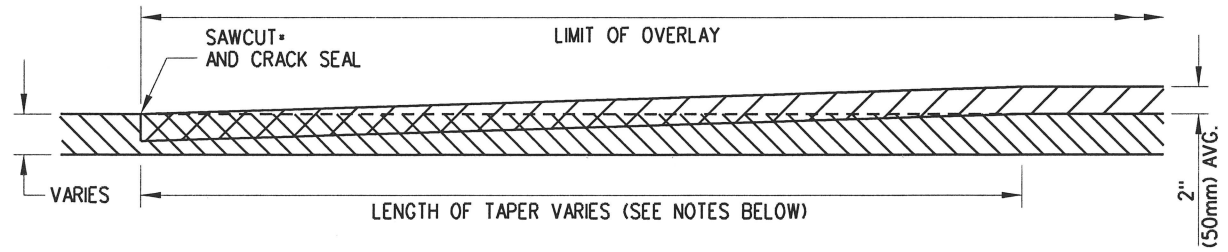
BIT. ASPHALT MIX JOINT
FOR FULL WIDTH MILLING SECTION**

**SAWCUT SHALL BE PAID UNDER ITEM 762000.

LEGEND

— PROPOSED FULL WIDTH MILLING AND BIT. ASPHALT MIX OVERLAY

— EXISTING PAVEMENT (TO REMAIN)



BIT. ASPHALT MIX JOINT
FOR OVERLAY SECTION*

*SAWCUT IS INCIDENTAL TO ITEM 762004.

LEGEND

— PROPOSED OVERLAY

— EXISTING PAVEMENT

— EXISTING PAVEMENT TO BE REMOVED

NOTES:

THE FOLLOWING LENGTHS ARE BASED ON THE POSTED SPEED OF THE ROADWAY:

1. EQUAL TO OR GREATER THAN 55 MPH - 40 FT (9.1m) PER 1" (25mm) OF OVERLAY DEPTH.
2. LESS THAN 55 MPH - 30 FT (6m) PER 1" (25mm) OF OVERLAY DEPTH.
3. AT STOP SIGNS - 15 FT (4.6m) PER 1" (25mm) OF OVERLAY DEPTH.
4. CRACK SEAL THE JOINT BETWEEN THE NEW AND EXISTING PAVEMENT, INCIDENTAL TO BIT. ASPHALT OVERLAY.

BITUMINOUS ASPHALT MIX JOINT DETAILS

SOUTH MAINTENANCE PAVEMENT & REHABILITATION, SUSSEX I, (US13, SUSSEX HWY - SEAFORD) 2020

LOCATION 1 **US13, SUSSEX HWY, NORTHBOUND & SOUTHBOUND (S2 & S3) - (SEAFORD) FROM PAVEMENT JOINTS NORTH OF ELKS/OLD FURNACE RD (S46) TO PAVEMENT JOINTS @ BRICKYARD RD (S481)**

LENGTH 9381.7440 m 30780.0000 L.F. AADT 21761

GENERAL IMPROVEMENTS

P.C.C. PATCHING, 2" MILLING, GUARDRAIL REPLACEMENT AND 2" BIT. ASPHALT TYPE C FULL WIDTH OVERLAY.

COMMENTS:

Please see attached sheets for comments

MATERIAL ESTIMATE FOR LOCATION 1

211001	REMOVAL OF PORTLAND CEMENT CONCRETE PAVEMENT, CURB AND SIDEWALK	358.00	S.Y.
211002	REMOVAL OF STRUCTURES AND OBSTRUCTIONS (GUARDRAIL)	6,720.00	L.F.
301001	GRADED AGGREGATE BASE COURSE, TYPE B	106.00	C.Y.
301002	GRADED AGGREGATE BASE COURSE, TYPE B, PATCHING	39.00	C.Y.
301003	GRADED AGGREGATE BASE COURSE, TYPE B	5.00	TON
401021	SUPERPAVE TYPE BCBC, PG 64-22	2.00	TON
401031	SUPERPAVE TYPE BCBC, PG 64-22, PATCHING	158.00	TON
401046	SUPERPAVE TYPE C, PG 76-22 (NON-CARBONATE STONE)	19,829.00	TON
401696	ENTRANCE, DRIVEWAY, AND INTERSECTING STREET PAVING SURCHARGE	233.00	TON
403000	BITUMINOUS CONCRETE AND/OR COLD-LAID BITUMINOUS (TRM) CONCRETE	146.00	TON
501006	PORTLAND CEMENT CONCRETE PAVEMENT, 12"	160.00	S.Y.
503001	PATCHING PORTLAND CEMENT CONCRETE PAVEMENT, 6' TO 15', TYPE A	1,152.00	S.Y.
503004	PATCHING PORTLAND CEMENT CONCRETE PAVEMENT, (UNDERCUTTING)	29.00	SY-IN
503006	DOWEL BARS	2,304.00	EACH
503503	PATCHING CONCRETE	3,341.00	SY-IN
504001	CRACK AND JOINT SEALING LESS THAN 3/4 INCH WIDE	4,320.00	L.F.
602100	REPLACE DRAINAGE INLET GRATE(S)	1.00	EACH
602101	REPLACE DRAINAGE INLET FRAME(S)	1.00	EACH
602130	ADJUSTING AND REPAIRING EXISTING DRAINAGE INLET	2.00	EACH
701011	PORTLAND CEMENT CONCRETE CURB, TYPE 1-4	2,470.00	L.F.
701023	INTEGRAL PORTLAND CEMENT CONCRETE CURB AND GUTTER, TYPE 3-8	56.00	L.F.
720021	GALVANIZED STEEL BEAM GUARDRAIL, TYPE 1-31	5,576.00	L.F.
721001	GUARDRAIL END TREATMENT, TYPE 1-31, TEST LEVEL 3	10.00	EACH
721003	GUARDRAIL END TREATMENT, TYPE 2-31, TEST LEVEL 3	5.00	EACH

SOUTH MAINTENANCE PAVEMENT & REHABILITATION, SUSSEX I, (US13, SUSSEX HWY - SEAFORD) 2020

LOCATION 1 **US13, SUSSEX HWY, NORTHBOUND & SOUTHBOUND (S2 & S3) - (SEAFORD) FROM PAVEMENT JOINTS NORTH OF ELKS/OLD FURNACE RD (S46) TO PAVEMENT JOINTS @ BRICKYARD RD (S481)**

LENGTH 9381.7440 m 30780.0000 L.F. AADT 21761

GENERAL IMPROVEMENTS

P.C.C. PATCHING, 2" MILLING, GUARDRAIL REPLACEMENT AND 2" BIT. ASPHALT TYPE C FULL WIDTH OVERLAY.

COMMENTS:

Please see attached sheets for comments

MATERIAL ESTIMATE FOR LOCATION 1

721006	END ANCHORAGE 31	15.00	EACH
721009	GUARDRAIL TO BARRIER CONNECTION (EXIT TYPE 31)	8.00	EACH
721010	GUARDRAIL TO BARRIER CONNECTION, APPROACH TYPE 1-31	8.00	EACH
760002	BIKE-FRIENDLY RUMBLE STRIPS, BITUMINOUS PAVEMENT	23,400.00	L.F.
760006	RUMBLE STRIPS, BITUMINOUS PAVEMENT	22,400.00	L.F.
760010	PAVEMENT MILLING, BITUMINOUS CONCRETE PAVEMENT	292,720.00	SY-IN
762000	SAW CUTTING, BITUMINOUS CONCRETE	8,696.00	L.F.
762001	SAW CUTTING, CONCRETE, FULL DEPTH	4,449.00	L.F.
802003	ARROW PANELS TYPE C	110.00	EA-DY
803001	FURNISH AND MAINTAIN PORTABLE CHANGEABLE MESSAGE SIGN	266.00	EA-DY
804001	FURNISH AND MAINTAIN PORTABLE LIGHT ASSEMBLY (FLOOD LIGHTS)	440.00	EA-DY
806001	TRAFFIC OFFICERS	1,100.00	HOUR
807001	FURNISH AND INSTALL TEMPORARY PORTLAND CEMENT CONCRETE SAFETY BARRIER, UNPINNED	500.00	L.F.
807002	FURNISH AND INSTALL TEMPORARY PORTLAND CEMENT CONCRETE SAFETY BARRIER, PINNED IN BITUMINOUS PAVEMENT	2,940.00	L.F.
807003	FURNISH AND INSTALL TEMPORARY PORTLAND CEMENT CONCRETE SAFETY BARRIER, PINNED IN CONCRETE	1,060.00	L.F.
807004	RELOCATE TEMPORARY PORTLAND CEMENT CONCRETE SAFETY BARRIER, UNPINNED	500.00	L.F.
807005	RELOCATE TEMPORARY PORTLAND CEMENT CCONCRETE SAFETY BARRIER, PINNED IN BITUMINOUS PAVEMENT	2,940.00	L.F.
807006	RELOCATE TEMPORARY PORTLAND CEMENT CONCRETE SAFETY BARRIER, PINNED IN CONCRETE	1,060.00	L.F.
807009	REMOVE TEMPORARY PORTLAND CEMENT CONCRETE SAFETY BARRIER, UNPINNED	500.00	L.F.
807010	REMOVE TEMPORARY PORTLAND CEMENT CONCRETE SAFETY BARRIER, PINNED IN BITUMINOUS PAVEMENT	2,940.00	L.F.

SOUTH MAINTENANCE PAVEMENT & REHABILITATION, SUSSEX I, (US13, SUSSEX HWY - SEAFORD) 2020

LOCATION 1 **US13, SUSSEX HWY, NORTHBOUND & SOUTHBOUND (S2 & S3) - (SEAFORD) FROM PAVEMENT JOINTS NORTH OF ELKS/OLD FURNACE RD (S46) TO PAVEMENT JOINTS @ BRICKYARD RD (S481)**

LENGTH 9381.7440 m 30780.0000 L.F. AADT 21761

GENERAL IMPROVEMENTS

P.C.C. PATCHING, 2" MILLING, GUARDRAIL REPLACEMENT AND 2" BIT. ASPHALT TYPE C FULL WIDTH OVERLAY.

COMMENTS:

Please see attached sheets for comments

MATERIAL ESTIMATE FOR LOCATION 1

807011	REMOVE TEMPORART PORTLAND CEMENT CONCRETE BARRIER, PINNED IN CONCRETE	1,060.00	L.F.
808002	FURNISH AND MAINTAIN TRUCK MOUNTED ATTENUATOR, TYPE II	110.00	EA-DY
809001	INSTALL TEMPORARY IMPACT ATTENUATOR	4.00	EACH
809005	FURNISH TEMPORARY IMPACT ATTENUATOR - NON-GATING, REDIRECTIVE, TEST LEVEL 3	4.00	EACH
809006	RELOCATE TEMPORARY IMPACT ATTENUATOR	4.00	EACH
811003	FLAGGER, SUSSEX COUNTY, STATE	5,500.00	HOUR
811015	FLAGGER, SUSSEX COUNTY, STATE, OVERTIME	825.00	HOUR
817002	PERMANENT PAVEMENT STRIPING, SYMBOL/LEGEND, ALKYD-THERMOPLASTIC	1,193.00	S.F.
817003	TEMPORARY MARKINGS, PAINT, 4"	169,290.00	L.F.
817004	TEMPORARY MARKINGS, PAINT, SYMBOL/LEGEND	2,385.00	S.F.
817013	PERMANENT PAVEMENT STRIPING, EPOXY RESIN PAINT, WHITE/YELLOW, 5"	84,645.00	L.F.
817027	RAISED/RECESSED PAVEMENT MARKER	385.00	EACH
819016	INSTALLATION OF 4" DIAMETER HOLE, LESS THAN OR EQUAL TO 6" DEPTH	1.00	EACH
819018	INSTALLATION OR REMOVAL OF TRAFFIC SIGN(S) ON SINGLE SIGN POST	153.00	EACH
846001	FURNISH AND INSTALL LOOP WIRE 1-CONDUCTOR #14 AWG ENCASED IN 1/4" FLEXIBLE TUBING IN A LOOP SAWCUT	2,000.00	L.F.
905001	SILT FENCE	4,000.00	L.F.
908001	TOPSOIL	963.00	TON
908014	PERMANENT GRASS SEEDING, DRY GROUND	10,266.00	S.Y.

SOUTH MAINTENANCE PAVEMENT & REHABILITATION, SUSSEX I, (US13, SUSSEX HWY - SEAFORD) 2020

LOCATION 1 US13, SUSSEX HWY, NORTHBOUND & SOUTHBOUND (S2 & S3) - (SEAFORD) FROM PAVEMENT JOINTS NORTH OF ELKS/OLD FURNACE RD (S46) TO PAVEMENT JOINTS @ BRICKYARD RD (S481)

COMMENTS:

1. RECOMMENDED M.O.T. TYPICAL APPLICATION, TA-33, OPT. B (TRAVEL LANES).
   TYPICAL APPLICATION, TA-34 (SHOULDERS-GUARDRAIL).
   TYPICAL APPLICATION, TA-3A (SHOULDERS).
   TYPICAL APPLICATION, TA-29 (SIDEWALK)

2. NIGHTTIME WORK HOURS: 8:00P - 6:00A, (SUNDAY PM - THURSDAY AM).

3. EXISTING R.O.W FOR THIS LOCATION IS 200' AS PER ARCHIVE PLANS;
   A. 1148
   B. T200412401

4. THE GABC ITEM 301003 AND QUANTITY IS FOR UNIMPROVED DRIVEWAYS. CRUSHED CONCRETE AND MILLINGS SHALL NOT BE PERMITTED AS A SUBSTITUTE.

5. PLACE BITUMINOUS ASPHALT CONCRETE SAFETY EDGE AS PER ATTACHED DETAIL.

6. ALL PAVEMENT VERTICAL DIFFERENCES MUST BE ADDRESSED AT THE END OF EACH DAY IN ACCORDANCE WITH THE DELAWARE MANUAL ON TRAFFIC CONTROL DEVICES (DE-MUTCD-2011), CHAPTER 6, PAGE 6G-14, SECTION 6G.20 - VERTICAL DIFFERENCES.

7. INSTALL RAISED PAVEMENT MARKERS AS PER THE DELAWARE MANUAL ON TRAFFIC CONTROL DEVICES (DE-MUTCD-2011), CHAPTER 3, PAGE 3B-48, SECTION 3B-11 - RAISED PAVEMENT MARKERS - GENERAL.

8. RUMBLESTRIPS

   A. INSTALL RUMBLESTRIPS INTO THE SHOULDERS AS PER THE DELAWARE DESIGN GUIDANCE MEMORANDUM "DGN" 1-18.
      1. OUTSIDE SHOULDER TO BE PAID UNDER ITEM 760002 - RUMBLESTRIPS, BIKE-FRIENDLY, HOT-MIX.

      2. INSIDE SHOULDER TO BE PAID UNDER ITEM 760006 - RUMBLESTRIPS, HOT-MIX.

9. CURB AND GUTTER NOTES

   A. REPLACE THE "DEPRESSED" CURB AND GUTTER LOCATED ALONG US13 AT THE ENTRANCE TO ARBY'S & MOTEL 6. (APPROX. 56FT)

10. P.C.C. PATCHING

   A. THE TYPICAL EXISTING PAVEMENT FOR P.C.C. PATCHING IS 3 +/- INCHES OF BIT. ASPHALT PAVEMENT OVER 10 +/- INCHES OF P.C.C. CONCRETE.

LOCATION 1 US13, SUSSEX HWY, NORTHBOUND & SOUTHBOUND (S2 & S3) - (SEAFORD) FROM PAVEMENT JOINTS NORTH OF ELKS/OLD FURNACE RD (S46) TO PAVEMENT JOINTS @ BRICKYARD RD (S481)

11. P.C.C. PAVEMENT SLAB AT STEIN HIGHWAY INTERSECTION

A. FROM US13 NORTHBOUND - REPLACE THE WESTBOUND LEFT HAND TURN LANE P.C.C. SLAB THAT IS CURRENTLY PATCHED WITH BIT. ASPHALT MATERIAL. THE TYPICAL EXISTING P.C.C. PAVEMENT IS 12 +/- INCHES OF P.C.C. CONCRETE. (APPROX. 120FT(TO EXISTING JOINT) IN LENGTH X 12FT WIDTH).

B. THE 12" P.C.C. PAVEMENT ITEM 501006 SHALL CONSIST OF REPLACING THE EXISTING P.C.C. CONCRETE SLAB. THE EXISTING GABC BASE MATERIAL DIRECTLY UNDER THE SLAB SHALL BE LEFT IN PLACE AND UNDISTURBED UNLESS THE MATERIAL IS DEEMED UNSUITABLE BY THE FIELD ENGINEER. IF DETERMINED UNSUITABLE THE MATERIAL SHALL BE REMOVED AND THE AREA PREPARED AS REQUIRED TO ACCEPT THE NEW P.C.C. PAVEMENT. THE CORRESPONDING ITEMS REQUIRED TO COMPLETE THE P.C.C. PAVEMENT SHALL BE PAID UNDER THEIR RESPECTIVE ITEM NUMBERS.

C. THE EXISTING BASE AND SUBBASE MATERIAL UNDER THE BIT. ASPHALT PATCH ALONG THE CURB LINE TO THE SLAB SHALL BE LEFT IN PLACE AND UNDISTURBED UNLESS THE MATERIAL IS DEEMED UNSUITABLE BY THE FIELD ENGINEER. IF DETERMINED UNSUITABLE THE MATERIAL SHALL BE REMOVED AND THE AREA PREPARED AS REQUIRED TO ACCEPT THE NEW P.C.C. PAVEMENT. CORRESPONDING ITEMS REQUIRED TO COMPLETE THE P.C.C. PAVEMENT SHALL BE PAID UNDER THEIR RESPECTIVE ITEM NUMBERS. (APPROX. 100FT IN LENGTH AND 2.5FT IN WIDTH).

D. THE CONTRACTOR SHALL NOT OPEN CUT THE EXISTNG ADJACENT PAVEMENT SLAB OR CURB TO INSTALL FORMS.

12. MILLING AND OVERLAY NOTES

A. THE REMOVAL OF EXISTING RAISED PAVEMENT MARKERS SHALL BE INCIDENTAL TO THE MILLING OPERATION.

B. THE PROJECT MILLING AND PAVING LIMITS SKIP OVER AND DO NOT INCLUDE GOING THROUGH THE EXISTING INTERSECTIONS ON US13 THAT WERE RECENTLY COMPLETED. THE PROJECT LIMITS WILL TIE INTO THE EXISTING PAVEMENT JOINTS AT EACH INTERSECTION.

C. THE PROJECT MILLING AND PAVING LIMITS SKIP OVER THE PCC BRIDGE DECKS AND WILL TIE INTO THE EXISTING APPROACHES/PAVEMENT JOINTS.

D. INTERSECTION LIMITS BELOW ARE FROM THE CENTERLINE OF THE INTERSECTIONS AND ARE APPROX. (+/-);

1. CONCORD RD
   a. NORTH SIDE - 460'
   b. SOUTH SIDE - 260'

2. MIDDLEFORD RD
   a. NORTH SIDE - 300'
   b. SOUTH SIDE - 280'

3. STEIN HIGHWAY
   a. NORTH SIDE - 360'
   b. SOUTH SIDE - 270' AND 310'

4. THARP/HERRING RUN RD
   a. NORTH SIDE - 400'
   b. SOUTH SIDE - 420'

13. EXISTING P.C.C. PAVEMENT SLABS

A. THE CONTRACTOR SHALL RESEAL THE EXISTING JOINTS FOR ALL EXISTING P.C.C. PAVEMENT SLABS LOCATED AT THE INTERSECTIONS.

B. THE JOINT RESEALING SHALL CONSIST OF THE ENTIRE OUTSIDE PERIMETER OF THE SLAB INCLUDING THE TRANSVERSE AND LONGITUDINAL SLAB JOINTS.

C. PAYMENT SHALL BE MADE UNDER ITEM 504001 - CRACK AND JOINT SEALING.

14. GUARDRAIL

A. A GUARDRAIL DESIGN PLAN WILL BE PROVIDED DURING THE CONSTRUCTION PHASE TO REPLACE AND UPGRADE THE EXISTING GUARDRAIL SYSTEMS.

15. TRAFFIC COUNT STATION

A. TCS NO. 8079 IS LOCATED 1000' NORTH OF STEIN HWY.

B. THE CONTRACTOR SHALL CONTACT MR. MICHAEL SOMERS, TRAFFIC-STUDIES @ (302)659-4099 A MINIMUM OF TEN (10) DAYS PRIOR TO MILLING THE ROADWAY SURFACE. AFTERWARDS, THE CONTRACTOR SHALL CONTACT MR. MICHAEL SOMERS WITHIN TEN (10) DAYS UPON COMPLETION OF THE PAVEMENT RESURFACING.

C. THE COST OF RE-INSTALLING THE LOOPS IS COORDINATED AND PAID FOR UNDER THE SPR PROGRAM.

16. WEATHER STATION

A. SWMS NO. 20 IS LOCATED 150' SOUTH OF THE NANTICOKE BRIDGE ON THE SOUTHBOUND SIDE.

B. THE CONTRACTOR SHALL CONTACT MR. DAN SCHMEUSSER, ITS SUPERVISOR @ (302)222-5960 A MINIMUM OF TEN (10) DAYS PRIOR TO MILLING THE ROADWAY SURFACE. AFTERWARDS, THE CONTRACTOR SHALL CONTACT MR. MICHAEL SOMERS WITHIN TEN (10) DAYS UPON COMPLETION OF THE PAVEMENT RESURFACING.

C. THE COST OF RE-INSTALLING THE LOOPS IS COORDINATED AND PAID FOR UNDER THE SPR PROGRAM.

LOCATION 1 **US13, SUSSEX HWY, NORTHBOUND & SOUTHBOUND (S2 & S3) - (SEAFORD) FROM PAVEMENT JOINTS NORTH OF ELKS/OLD FURNACE RD (S46) TO PAVEMENT JOINTS @ BRICKYARD RD (S481)**

THIS LOCATION SHALL MEET THE TOLERANCES OF SUBSECTION 401580 - RIDE QUALITY OF HOT-MIX PAVEMENT REQUIREMENTS, AS SPECIFIED IN THE SPECIAL PROVISIONS.

CONTRACT QUANTITIES SUMMARY SHEET

211001	REMOVAL OF PORTLAND CEMENT CONCRETE PAVEMENT, CURB AND SIDEWALK	358.00	S.Y.
211002	REMOVAL OF STRUCTURES AND OBSTRUCTIONS (GUARDRAIL)	6,720.00	L.F.
301001	GRADED AGGREGATE BASE COURSE, TYPE B	106.00	C.Y.
301002	GRADED AGGREGATE BASE COURSE, TYPE B, PATCHING	39.00	C.Y.
301003	GRADED AGGREGATE BASE COURSE, TYPE B	5.00	TON
401021	SUPERPAVE TYPE BCBC, PG 64-22	2.00	TON
401031	SUPERPAVE TYPE BCBC, PG 64-22, PATCHING	158.00	TON
401046	SUPERPAVE TYPE C, PG 76-22 (NON-CARBONATE STONE)	19,829.00	TON
401696	ENTRANCE, DRIVEWAY, AND INTERSECTING STREET PAVING SURCHARGE	233.00	TON
403000	BITUMINOUS CONCRETE AND/OR COLD-LAID BITUMINOUS (TRM) CONCRETE	146.00	TON
501006	PORTLAND CEMENT CONCRETE PAVEMENT, 12"	160.00	S.Y.
503001	PATCHING PORTLAND CEMENT CONCRETE PAVEMENT, 6' TO 15', TYPE A	1,152.00	S.Y.
503004	PATCHING PORTLAND CEMENT CONCRETE PAVEMENT, (UNDERCUTTING)	29.00	SY-IN
503006	DOWEL BARS	2,304.00	EACH
503503	PATCHING CONCRETE	3,341.00	SY-IN
504001	CRACK AND JOINT SEALING LESS THAN 3/4 INCH WIDE	4,320.00	L.F.
602100	REPLACE DRAINAGE INLET GRATE(S)	1.00	EACH
602101	REPLACE DRAINAGE INLET FRAME(S)	1.00	EACH
602130	ADJUSTING AND REPAIRING EXISTING DRAINAGE INLET	2.00	EACH
701011	PORTLAND CEMENT CONCRETE CURB, TYPE 1-4	2,470.00	L.F.
701023	INTEGRAL PORTLAND CEMENT CONCRETE CURB AND GUTTER, TYPE 3-8	56.00	L.F.
720021	GALVANIZED STEEL BEAM GUARDRAIL, TYPE 1-31	5,576.00	L.F.
721001	GUARDRAIL END TREATMENT, TYPE 1-31, TEST LEVEL 3	10.00	EACH
721003	GUARDRAIL END TREATMENT, TYPE 2-31, TEST LEVEL 3	5.00	EACH
721006	END ANCHORAGE 31	15.00	EACH
721009	GUARDRAIL TO BARRIER CONNECTION (EXIT TYPE 31)	8.00	EACH
721010	GUARDRAIL TO BARRIER CONNECTION, APPROACH TYPE 1-31	8.00	EACH

CONTRACT QUANTITIES SUMMARY SHEET

760002	BIKE-FRIENDLY RUMBLE STRIPS, BITUMINOUS PAVEMENT	23,400.00	L.F.
760006	RUMBLE STRIPS, BITUMINOUS PAVEMENT	22,400.00	L.F.
760010	PAVEMENT MILLING, BITUMINOUS CONCRETE PAVEMENT	292,720.00	SY-IN
762000	SAW CUTTING, BITUMINOUS CONCRETE	8,696.00	L.F.
762001	SAW CUTTING, CONCRETE, FULL DEPTH	4,449.00	L.F.
763000	INITIAL EXPENSE/DE-MOBILIZATION	LUMP	SUM
801500	MAINTENANCE OF TRAFFIC, ALL INCLUSIVE	LUMP	SUM
802003	ARROW PANELS TYPE C	110.00	EA-DY
803001	FURNISH AND MAINTAIN PORTABLE CHANGEABLE MESSAGE SIGN	266.00	EA-DY
804001	FURNISH AND MAINTAIN PORTABLE LIGHT ASSEMBLY (FLOOD LIGHTS)	440.00	EA-DY
806001	TRAFFIC OFFICERS	1,100.00	HOUR
807001	FURNISH AND INSTALL TEMPORARY PORTLAND CEMENT CONCRETE SAFETY BARRIER, UNPINNED	500.00	L.F.
807002	FURNISH AND INSTALL TEMPORARY PORTLAND CEMENT CONCRETE SAFETY BARRIER, PINNED IN BITUMINOUS PAVEMENT	2,940.00	L.F.
807003	FURNISH AND INSTALL TEMPORARY PORTLAND CEMENT CONCRETE SAFETY BARRIER, PINNED IN CONCRETE	1,060.00	L.F.
807004	RELOCATE TEMPORARY PORTLAND CEMENT CONCRETE SAFETY BARRIER, UNPINNED	500.00	L.F.
807005	RELOCATE TEMPORARY PORTLAND CEMENT CCONCRETE SAFETY BARRIER, PINNED IN BITUMINOUS PAVEMENT	2,940.00	L.F.
807006	RELOCATE TEMPORARY PORTLAND CEMENT CONCRETE SAFETY BARRIER, PINNED IN CONCRETE	1,060.00	L.F.
807009	REMOVE TEMPORARY PORTLAND CEMENT CONCRETE SAFETY BARRIER, UNPINNED	500.00	L.F.
807010	REMOVE TEMPORARY PORTLAND CEMENT CONCRETE SAFETY BARRIER, PINNED IN BITUMINOUS PAVEMENT	2,940.00	L.F.
807011	REMOVE TEMPORART PORTLAND CEMENT CONCRETE BARRIER, PINNED IN CONCRETE	1,060.00	L.F.
808002	FURNISH AND MAINTAIN TRUCK MOUNTED ATTENUATOR, TYPE II	110.00	EA-DY
809001	INSTALL TEMPORARY IMPACT ATTENUATOR	4.00	EACH
809005	FURNISH TEMPORARY IMPACT ATTENUATOR - NON-GATING, REDIRECTIVE, TEST LEVEL 3	4.00	EACH

CONTRACT QUANTITIES SUMMARY SHEET

809006	RELOCATE TEMPORARY IMPACT ATTENUATOR	4.00	EACH
811003	FLAGGER, SUSSEX COUNTY, STATE	5,500.00	HOUR
811015	FLAGGER, SUSSEX COUNTY, STATE, OVERTIME	825.00	HOUR
817002	PERMANENT PAVEMENT STRIPING, SYMBOL/LEGEND, ALKYD-THERMOPLASTIC	1,193.00	S.F.
817003	TEMPORARY MARKINGS, PAINT, 4"	169,290.00	L.F.
817004	TEMPORARY MARKINGS, PAINT, SYMBOL/LEGEND	2,385.00	S.F.
817013	PERMANENT PAVEMENT STRIPING, EPOXY RESIN PAINT, WHITE/YELLOW, 5"	84,645.00	L.F.
817027	RAISED/RECESSED PAVEMENT MARKER	385.00	EACH
819016	INSTALLATION OF 4" DIAMETER HOLE, LESS THAN OR EQUAL TO 6" DEPTH	1.00	EACH
819018	INSTALLATION OR REMOVAL OF TRAFFIC SIGN(S) ON SINGLE SIGN POST	153.00	EACH
846001	FURNISH AND INSTALL LOOP WIRE 1-CONDUCTOR #14 AWG ENCASED IN 1/4" FLEXIBLE TUBING IN A LOOP SAWCUT	2,000.00	L.F.
905001	SILT FENCE	4,000.00	L.F.
908001	TOPSOIL	963.00	TON
908014	PERMANENT GRASS SEEDING, DRY GROUND	10,266.00	S.Y.