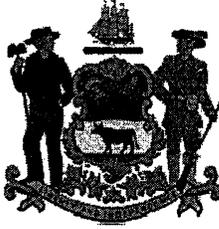


THE STATE OF DELAWARE



DEPARTMENT OF TRANSPORTATION
OFFICE OF TRANSPORTATION SOLUTIONS
PLANS AND SPECIFICATIONS FOR

CONTRACT NUMBER- T201206106

NORTH MAINTENANCE

FEDERAL AID NUMBER- ESTP-2014(10)

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CONTRACT TITLE- PAVEMENT & REHABILITATION - NORTH VI, 2012

PLANS PREPARED BY: George LeCates
DESIGN TECHNICIAN

DATE RECOMMENDED: 11/18/13

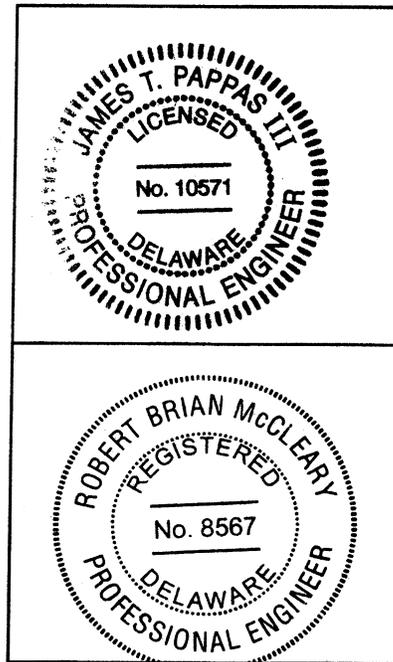
DATE RECOMMENDED: _____

Chris R.
GROUP ENGINEER, CONSTRUCTION - NORTH II

N/A
ASSIST. DIRECTOR, CONSTRUCTION - NORTH

DATE RECOMMENDED: 11.15.13

James T. Pappas III
ASSIST. DIRECTOR, DESIGN



DATE RECOMMENDED: 11/18/13

Robert B. McCleary
CHIEF ENGINEER

DEPARTMENT OF TRANSPORTATION

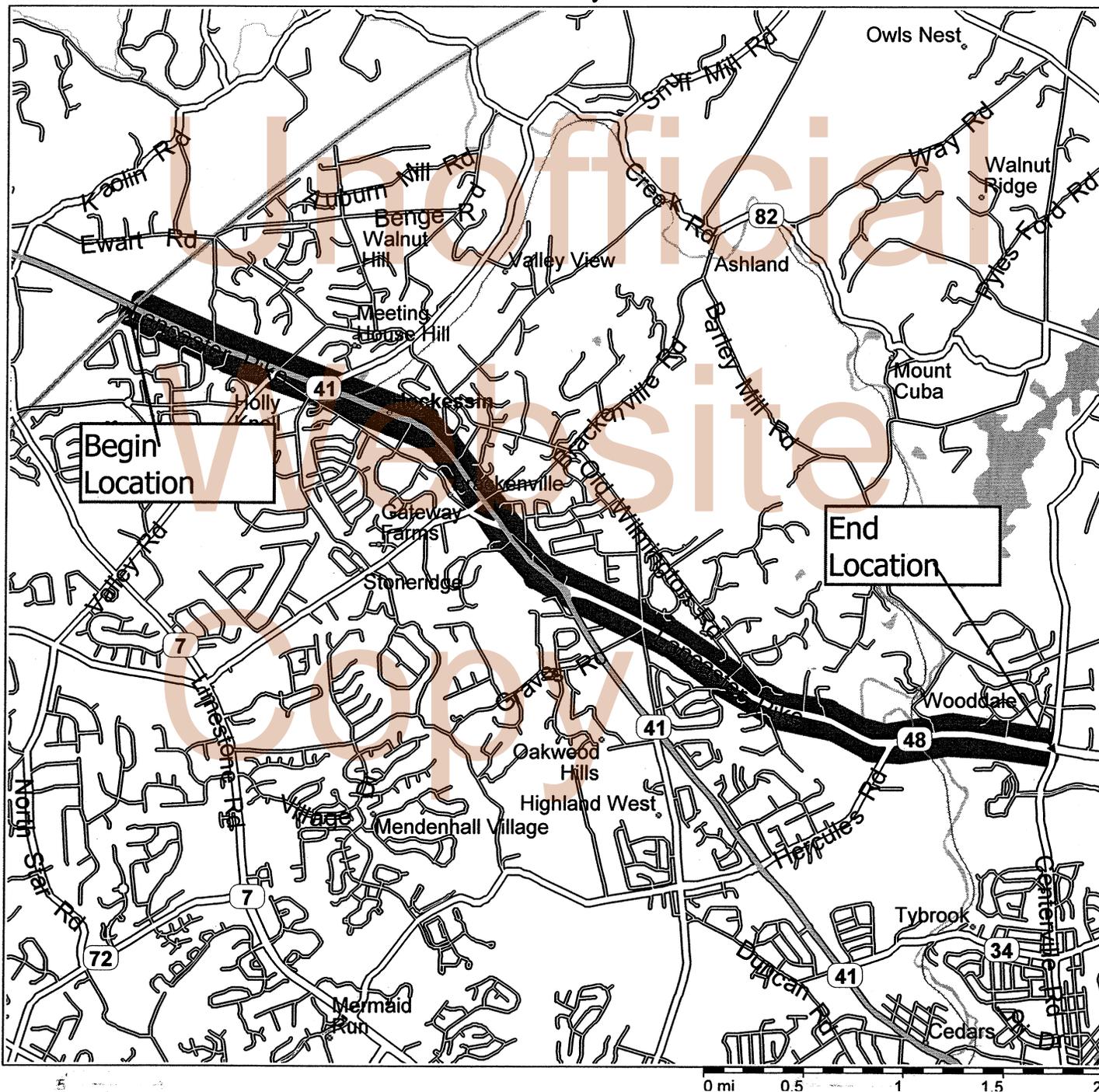
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CENTERVILLE ROAD; GREENBANK ROAD; LANCASTER PIKE

LOCATION MAP

Loc. #1 - Lancaster Pike from Pennsylvania Line to Centerville Road



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CENTERVILLE ROAD; GREENBANK ROAD; LANCASTER PIKE

LOCATION MAP

Loc. #2 - Centerville Road from Greenbank Road to Lancaster Pike



DEPARTMENT OF TRANSPORTATION

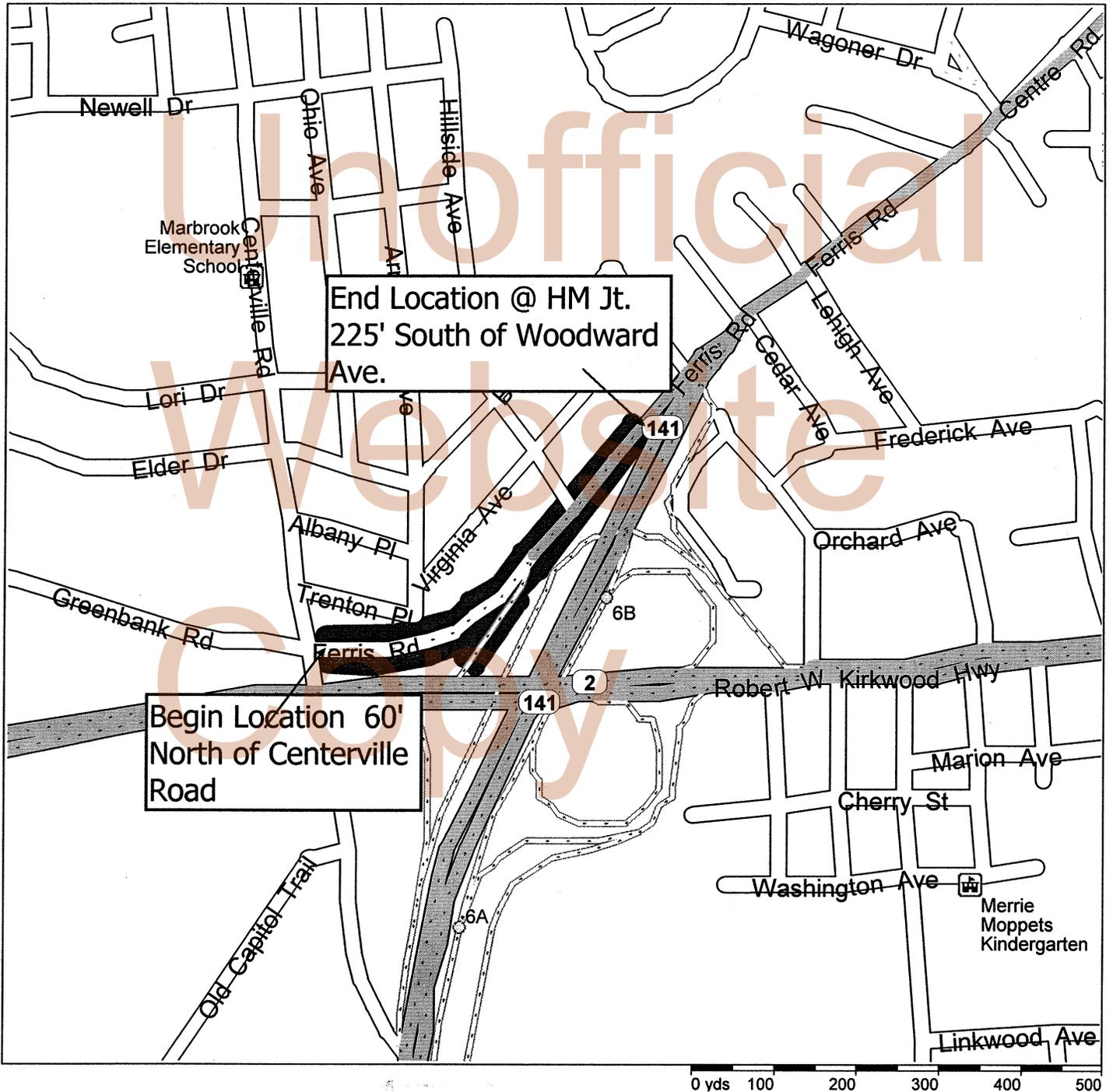
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CENTERVILLE ROAD; GREENBANK ROAD; LANCASTER PIKE

LOCATION MAP

Loc. #3 - Greenbank Road from Centerville Road to Centre Road



DEPARTMENT OF TRANSPORTATION

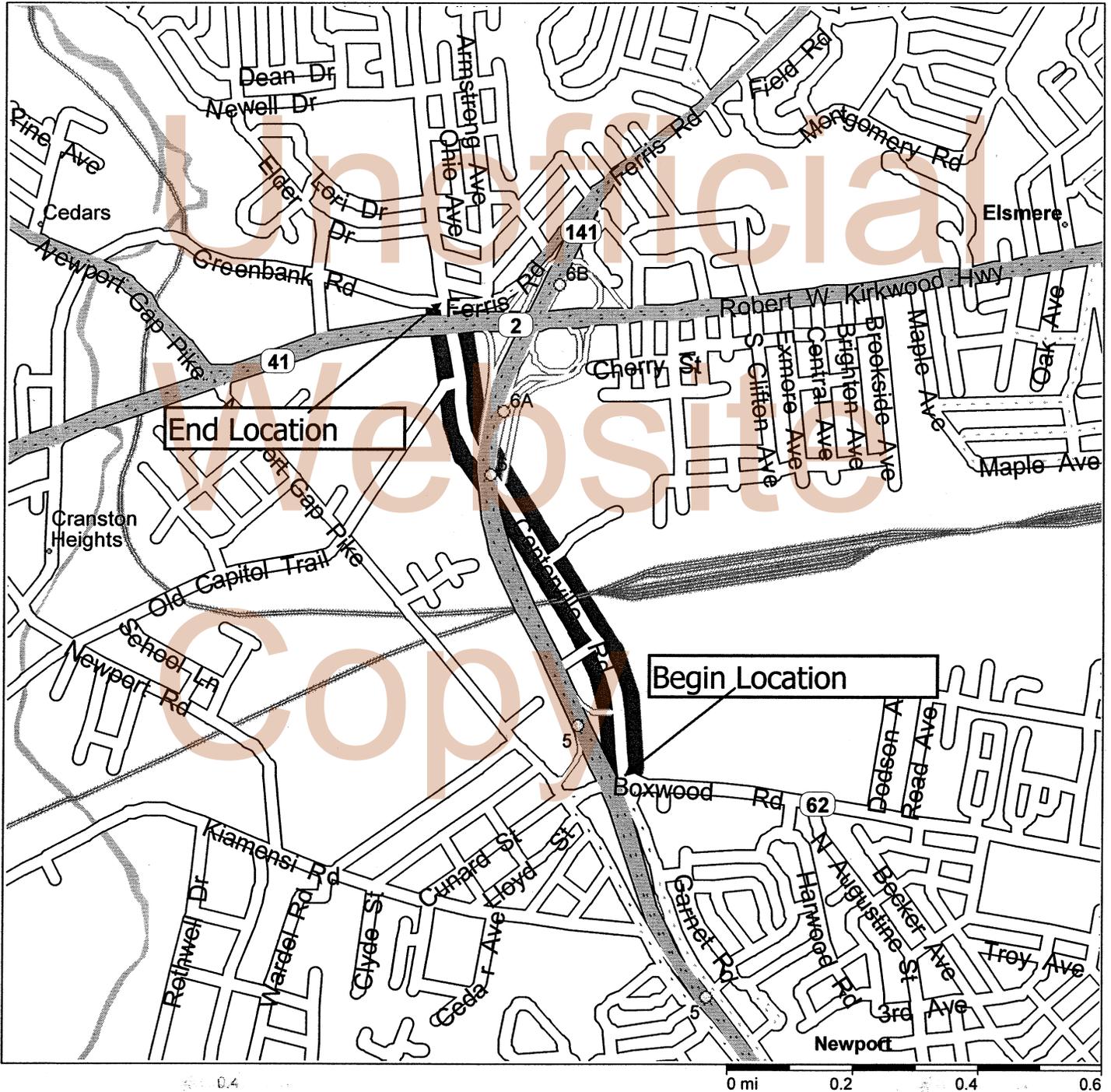
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CENTERVILLE ROAD; GREENBANK ROAD; LANCASTER PIKE

LOCATION MAP

Loc. #4 - Centerville Road from Boxwood Road to Greenbank Road



DEPARTMENT OF TRANSPORTATION

CONTRACT NUMBER- T201206106 NORTH MAINTENANCE
PAVEMENT & REHABILITATION, NORTH VI, 2012

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GENERAL CONTRACT PLAN NOTES

REVISED 9/2013

GENERAL

1. CONSTRUCTION OF THIS CONTRACT SHALL CONFORM TO DELAWARE DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS DATED AUGUST 2001 AS AMENDED BY THE SUPPLEMENTAL SPECIFICATIONS, THE SPECIAL PROVISIONS, THE MOST RECENT STANDARD CONSTRUCTION DETAILS, 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 CONTRACTOR SHALL SUBMIT TWO-WEEK (OR AS REQUIRED) "LOOK AHEAD" SCHEDULES TO THE AREA ENGINEER/ MANAGER NO LATER THAN NOON OF EACH THURSDAY. FAILURE TO COMPLY WILL RESULT IN A SUSPENSION OF ALL CONTRACT WORK WITH TIME CHARGES CONTINUING TO BE ASSESSED.

MAINTENANCE OF TRAFFIC

DEPARTMENT OF TRANSPORTATION

CONTRACT NUMBER- T201206106 NORTH MAINTENANCE
PAVEMENT & REHABILITATION, NORTH VI, 2012

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GENERAL CONTRACT PLAN NOTES

5. 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.

6. AT THE END OF EACH DAY'S OPERATION AND BEFORE TRAFFIC IS RETURNED TO UNRESTRICTED ROADWAY USE, TEMPORARY STRIPING SHALL BE UTILIZED AT LOCATIONS THAT REQUIRE PERMANENT STRIPING. TEMPORARY PAVEMENT STRIPING MUST MATCH PERMANENT PAVEMENT STRIPING IN ALL REGARDS. TEMPORARY PAVEMENT MARKINGS SHALL BE PAID AT THE APPLICABLE CONTRACT UNIT PRICE. THE CONTRACTOR IS RESPONSIBLE FOR MAINTAINING THE TEMPORARY MARKINGS IN GOOD CONDITION SUCH THAT THE PAVEMENT IS PROPERLY DELINEATED AT ALL TIMES. ANY REFRESHING OF THE TEMPORARY MARKINGS WILL BE AT THE CONTRACTOR'S EXPENSE.

7. 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.

8. 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 763XXX - MAINTENANCE OF TRAFFIC.

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 BY THE DISTRICT TRAFFIC SAFETY OFFICER

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PAVEMENT & REHABILITATION, NORTH VI, 2012

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GENERAL CONTRACT PLAN NOTES

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.
- 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.

9. 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

DEPARTMENT OF TRANSPORTATION

CONTRACT NUMBER- T201206106 NORTH MAINTENANCE
PAVEMENT & REHABILITATION, NORTH VI, 2012

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GENERAL CONTRACT PLAN NOTES

10. AT THE PRECONSTRUCTION MEETING, THE CONTRACTOR SHALL SUBMIT DETAILED DRAWINGS (INCLUDING BUT NOT LIMITED TO EXISTING STRIPING LENGTHS, LANE AND SHOULDER WIDTHS, TURN LANE LENGTHS, LOCATIONS OF STOP BARS, TURN ARROWS, CROSSWALKS AND RAILROAD CROSSINGS) THAT DEPICT THE EXISTING PAVEMENT MARKINGS FOR EACH PROJECT LOCATION. THESE DRAWINGS WILL BE REVIEWED BY THE 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.

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).

CONTRACT.

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

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

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

TRAFFIC SIGNAL NOTES

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

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CONTRACT NUMBER- T201206106 NORTH MAINTENANCE
PAVEMENT & REHABILITATION, NORTH VI, 2012

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GENERAL CONTRACT PLAN NOTES

15. 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

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

17. 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 30200X.

18. 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.

19. 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.

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

21. EXCAVATION UP TO 1' IN FRONT OF CURB WILL BE INCIDENTAL TO ITEM 701XXX. HOT MIX PLACED IN FRONT OF CURB WILL BE PAID UNDER ITEM 401XXX. USE OF CONCRETE AS FILL IN FRONT OF CURB WILL NO LONGER BE ACCEPTED UNLESS DIRECTED BY THE ENGINEER. AT EACH LOCATION, BACKFILLING SHALL BE PERFORMED IMMEDIATELY UPON REMOVAL

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CONTRACT NUMBER- T201206106 NORTH MAINTENANCE
PAVEMENT & REHABILITATION, NORTH VI, 2012

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GENERAL CONTRACT PLAN NOTES

OF FORMS FOR CURB OR SIDEWALK. TOPSOIL, SEEDING, SEALING OF VALLEY GUTTERS, REMOVING OF FORMS, AND PARGING OF CATCH BASINS, SHALL BE COMPLETED WITHIN SEVEN (7) CALENDAR DAYS OF COMPLETION OF THE ITEM OF WORK. ITEM 732XXX, TOPSOIL, SHALL BE USED AS BACKFILL MATERIAL BEHIND CURB AND AROUND SIDEWALK OR/AS DIRECTED BY THE ENGINEER. TOPSOIL SHALL BE SCREENED/SIFTED SO AS NO MATERIAL GREATER THAN .5" IS PRESENT IN MATERIAL USED FOR BACKFILL. EXCAVATED MATERIAL, NOT NEEDED ON THE PROJECT, SHALL BE REMOVED FROM THE CONTRACT AT THE CONTRACTORS EXPENSE. FAILURE TO COMPLY WILL RESULT IN A SUSPENSION OF ALL OTHER CONTRACT WORK WITH TIME CHARGES CONTINUING TO BE ASSESSED.

22. 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.

23. 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.

24. THE CONTRACTOR SHALL TAKE CARE IN REMOVING PAVEMENT AROUND UTILITIES, BUTT JOINTS, CURBS, 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.

25. 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.

26. DRAINAGE INLETS, WHICH ARE 4' GREATER IN DEPTH AND ARE SLATED FOR REPAIR WILL HAVE STEPS INSTALLED IN ACCORDANCE WITH SECTION 708.07 OF THE STANDARD SPECIFICATIONS. PAYMENT SHALL BE INCIDENTAL TO THE UNIT PRICE BID FOR ITEM 710001.

27. THE PORTLAND CEMENT CONCRETE USED WITHIN ITEM 701002 - ADJUST AND REPAIR EXISTING MAN HOLES AND ITEM 750000 - ADJUST WATER VALVE BOX SHALL CONFORM TO

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PAVEMENT & REHABILITATION, NORTH VI, 2012

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GENERAL CONTRACT PLAN NOTES

THE REQUIREMENTS OF CLASS A CONCRETE AS STATED WITHIN SECTION 503.02 OF THE DEPARTMENT'S STANDARD SPECIFICATIONS.

28. WHEN JACKHAMMERING OR THE USE OF A BREAKER IS NECESSARY ON CONTRACTS THAT OCCUR DURING THE NIGHTTIME HOURS THE JACKHAMMERING AND BREAKING MUST CEASE AT 12:00AM.

29. CURB RAMP AND/OR SIDEWALK CONSTRUCTION (NOT INCLUDING MEDIAN ISLANDS) SHALL BE COMPLETED DURING A SINGLE OPERATION. THE RAMP/SIDEWALK SHALL BE REMOVED AND PLACED BACK THE SAME NIGHT/DAY AND OPEN TO PEDESTRIAN TRAFFIC THE FOLLOWING DAY. THE USE OF A MONOLITHIC POUR SHALL BE PERMITTED WITH A BOND BREAKER TO BE PLACED AT THE BACK OF THE CURB AND EDGE OF SIDEWALK. IF THE CURB RAMP/SIDEWALK CANNOT BE COMPLETED IN A SINGLE OPERATION THE EXCAVATED AREA MUST BE BACKFILLED TO GRADE WITH COMPACTED MILLING MATERIAL ONLY. THIS MATERIAL WILL BE INCIDENTAL TO THE CURB RAMP ITEM. THE DRESSING UP OF THE AREA BEING PAID AS A CURB RAMP WITH TOPSOIL AND SEED WILL BE INCIDENTAL TO THE CURB RAMP ITEMS.

30. ANY MILLING MATERIAL REQUIRED TO MAKE AREAS ADA COMPLIANT IF NOT COMPLETED IN THE SAME SHIFT AT CURB, SIDEWALK, CURB RAMPS, ISLANDS, ETC. WILL BE INCIDENTAL TO THE PAY ITEM ASSOCIATED WITH THE WORK. MILLING MATERIAL IS THE ONLY APPROVED MATERIAL FOR THIS PRACTICE.

Website
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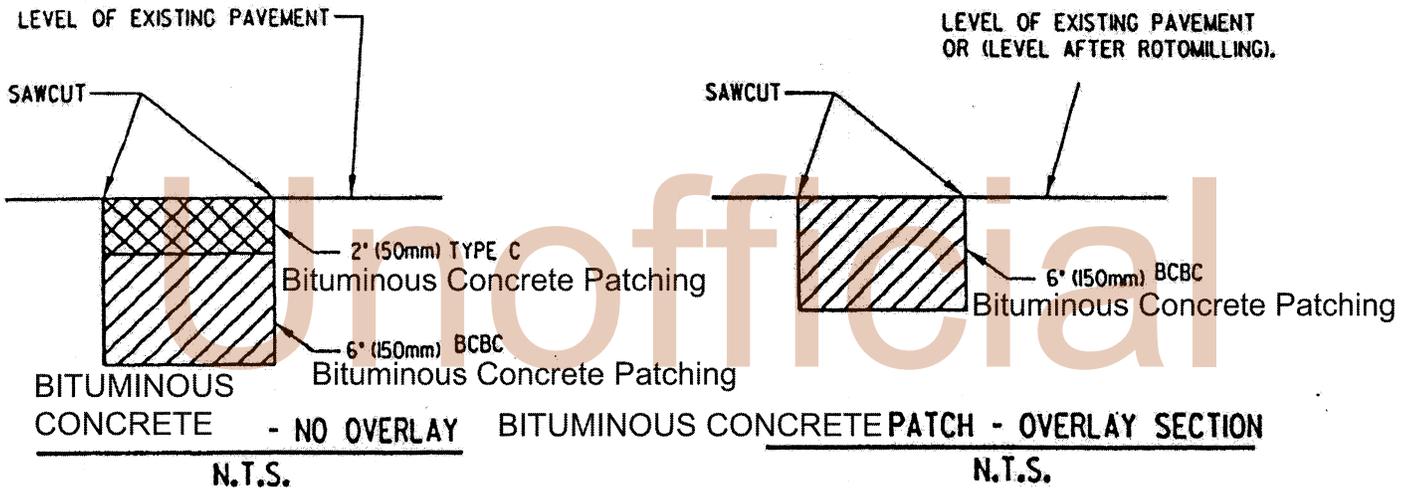
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NORTH
MAINTENANCE

CENTERVILLE ROAD; GREENBANK ROAD; LANCASTER PIKE

DETAILS SHEET



•UNDERCUT EXCAVATION PATCHING TO BE UTILIZED BELOW 8" (200mm) WHEN DIRECTED BY THE ENGINEER.

•UNDERCUT EXCAVATION PATCHING TO BE UTILIZED BELOW 6" (150mm) WHEN DIRECTED BY THE ENGINEER.

NOTE: PREFERRED EXCAVATION METHOD TO BE BY ROTOMILLING. SAWCUTTING EDGES SHALL BE AS DIRECTED BY ENGINEER AND DEPENDENT ON THE CONDITION LEFT BY THE ROTOMILLING OPERATION. BACKFILL FOR UNDERCUT EXCAVATION SHALL BE SUPERPAVE BCBC PATCH (SEPERATE LIFT). MINIMUM WIDTH OF PATCHING 6' (1.8M). THIS DETAIL SHALL BE USED FOR ALL HOT MIX PATCHES UNLESS OTHERWISE SHOWN ON THE PLANS. ALL HOT MIX TO BE PLACED USING A PAVER.

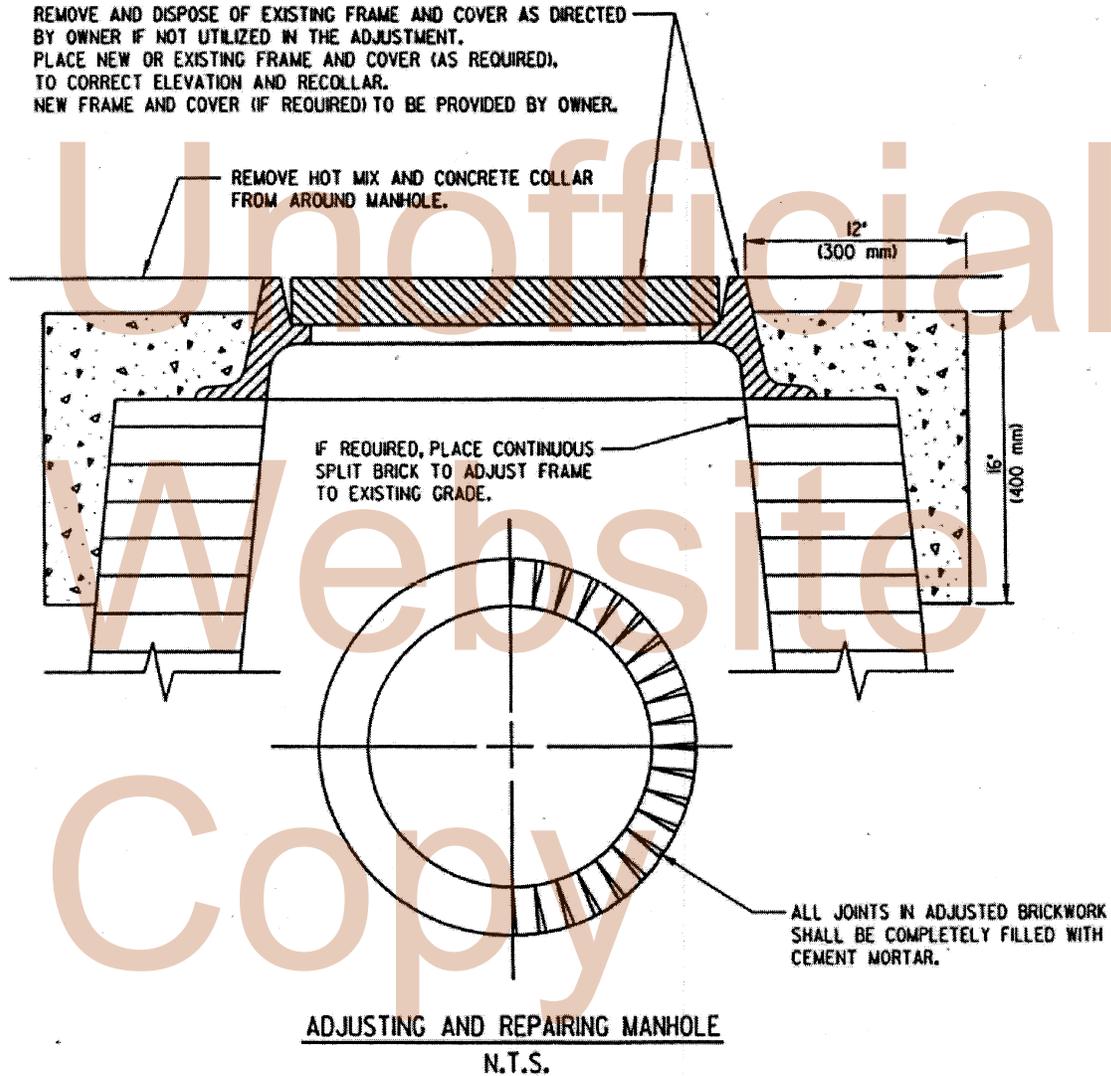
WHEN PCC PATCHING IS REQUIRED ON A COMPOSITE PAVEMENT (HOT-MIX OVER CONCRETE), THE CONTRACTOR MAY ELECT TO ELIMINATE ANY GRADE DIFFERENCE BETWEEN THE TOP OF THE CONCRETE PATCH AND THE TOP OF THE EXISTING HOT-MIX PAVEMENT BY EITHER PLACING HOT-MIX TRM MATERIAL (PAYMENT UNDER ITEM 402000) OR PLACING CONCRETE FLUSH WITH EXISTING HOT-MIX PAVEMENT (ADDITIONAL CONCRETE PAID AS ITEM 503503). IF CONCRETE IS PLACED FLUSH WITH EXISTING HOT-MIX, THE ROTOMILLING OF THE CONCRETE WILL BE PAID FOR AS ROTOMILLING HOT-MIX.

P.C.C. PATCHING NOTES

NORTH
MAINTENANCE

CENTERVILLE ROAD; GREENBANK ROAD; LANCASTER PIKE

DETAILS SHEET



NOTE: MANHOLES IN CONCRETE ROADWAYS SHALL BE SAWCUT FULL DEPTH TO THE SPECIFIED DIMENSION PRIOR TO ANY ADJUSTMENT BEING MADE. THE SAWCUTTING SHALL BE INCIDENTAL TO ITEM 710002.

DELAWARE DEPARTMENT OF TRANSPORTATION

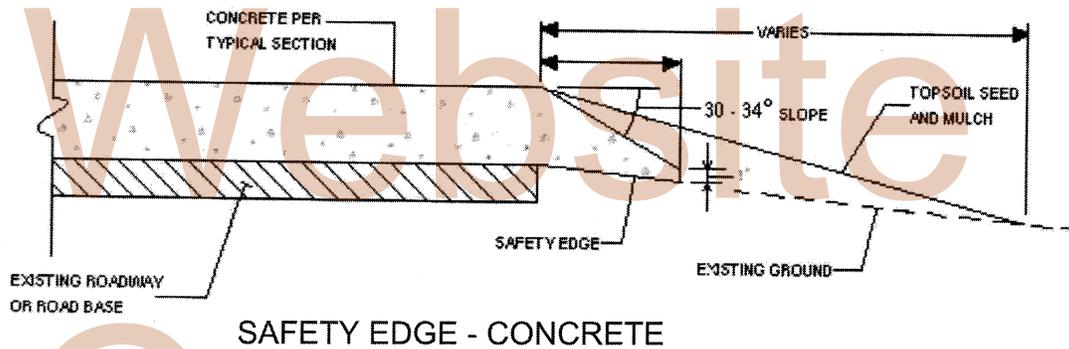
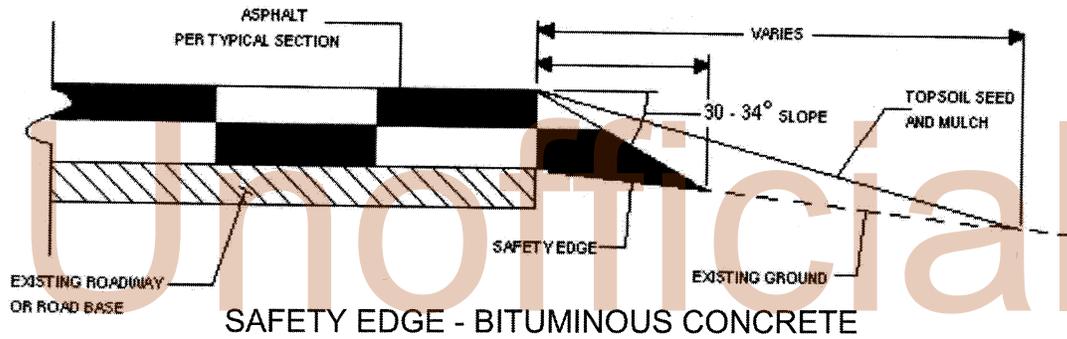
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NORTH
MAINTENANCE

CENTERVILLE ROAD; GREENBANK ROAD; LANCASTER PIKE

DETAILS SHEET



GENERAL NOTES

1. THE SAFETY EDGE WILL BE CONSTRUCTED AS PART OF THE ROADWAY PAVEMENT. A SHOULDER WEDGE DEVICE WILL BE ADDED TO THE SCREED OF THE PAVING MACHINE.
2. SHORT SECTIONS OF HANDWORK WILL BE ALLOWED WHEN NECESSARY FOR TRANSITION AND TURNOUTS.
3. SITE PREPARATION AND ADDITIONAL EARTHWORK REQUIRED TO CONSTRUCT THE SAFETY EDGE WILL NOT BE PAID FOR SEPARATELY BUT SHALL BE INCLUDED IN THE WORK.

DELAWARE DEPARTMENT OF TRANSPORTATION

CONTRACT T201206106

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NORTH MAINTENANCE PAVEMENT & REHABILITATION, NORTH VI, 2012

LOCATION 1 237(LANCASTER PIKE - NORTH SECTION) FROM PA LINE TO CENTERVILLE RD (RD272)

LENGTH 8686.8000 m 28500.0000 L.F. AADT 17615

GENERAL IMPROVEMENTS

2" PROFILE MILL, BITUMINOUS CONCRETE PATCHING, 2" BITUMINOUS CONCRETE TYPE C 70-22

COMMENTS:

Please see attached sheets for comments

Unofficial

MATERIAL ESTIMATE FOR LOCATION 1

302005	GRADED AGGREGATE BASE COURSE, TYPE B	200.00	TON
401696	ENTRANCE, DRIVEWAY AND INTERSECTING STREET PAVING SURCHARGE	720.00	TON
401755	RECYCLED ASPHALT PAVEMENT MILLINGS FOR ROADWAY EDGE	100.00	TON
401823	BITUMINOUS CONCRETE, SUPERPAVE, BITUMINOUS CONCRETE BASE COURSE, 160 GYRATIONS, PG 64-22, PATCHING	1,500.00	TON
401830	BITUMINOUS CONCRETE, SUPERPAVE, TYPE C, 160 GYRATIONS, PG 70-22 (NON-CARBONATE STONE)	22,200.00	TON
402000	HOT-MIX BITUMINOUS CONCRETE AND/OR COLD-LAID BITUMINOUS CONCRETE (TRM)	300.00	TON
406001	BITUMINOUS CONCRETE PATCHING	27,300.00	SY-IN
701004	PORTLAND CEMENT CONCRETE VALLEY GUTTER, 8"	370.00	S.Y.
701011	PORTLAND CEMENT CONCRETE CURB, TYPE 2	200.00	L.F.
701020	INTEGRAL PORTLAND CEMENT CONCRETE CURB & GUTTER, TYPE 1-8	1,000.00	L.F.
705001	P.C.C. SIDEWALK, 4"	2,200.00	S.F.
705002	P.C.C. SIDEWALK, 6"	400.00	S.F.
705007	SIDEWALK SURFACE DETECTABLE WARNING SYSTEM	690.00	S.F.
705008	CURB RAMP, TYPE 1	3,300.00	S.F.
705009	CURB RAMP, TYPE 2, 3, AND/OR 4	2,280.00	S.F.
705530	TRIANGULAR CHANNELIZING ISLANDS	2,750.00	S.F.
708060	REPLACE DRAINAGE INLET GRATE(S)	11.00	EACH
708061	REPLACE DRAINAGE INLET FRAME(S)	11.00	EACH
710001	ADJUSTING AND REPAIRING EXISTING DRAINAGE INLET	45.00	EACH
710002	ADJUSTING AND REPAIRING EXISTING MANHOLE	37.00	EACH
732004	TOPSOIL (TON)	100.00	TON
734013	PERMANENT GRASS SEEDING, DRY GROUND	250.00	S.Y.
743003	ARROWPANELS, TYPE C	172.00	EA-DY

DELAWARE DEPARTMENT OF TRANSPORTATION

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NORTH MAINTENANCE PAVEMENT & REHABILITATION, NORTH VI, 2012

LOCATION 1 237(LANCASTER PIKE - NORTH SECTION) FROM PA LINE TO CENTERVILLE RD (RD272)

LENGTH 8686.8000 m 28500.0000 L.F. AADT 17615

GENERAL IMPROVEMENTS

2" PROFILE MILL, BITUMINOUS CONCRETE PATCHING, 2" BITUMINOUS CONCRETE TYPE C 70-22

COMMENTS:

Please see attached sheets for comments

Unofficial
Website
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MATERIAL ESTIMATE FOR LOCATION 1

743004	FURNISH AND MAINTAIN PORTABLE CHANGEABLE MESSAGE SIGN	30.00	EA-DY
743007	** TRAFFIC OFFICERS	1,600.00	HOURL
743010	FURNISH AND MAINTAIN TRUCK MOUNTED ATTENUATOR, TYPE II	170.00	EA-DY
743056	** FLAGGER, NEW CASTLE COUNTY, FEDERAL	4,500.00	HOURL
743065	** FLAGGER, NEW CASTLE COUNTY, FEDERAL, OVERTIME	450.00	HOURL
744505	ADJUST OR REPAIR EXISTING CONDUIT JUNCTION WELL	6.00	EACH
744530	CONDUIT JUNCTION WELL, TYPE 11, PRECAST CONCRETE/ POLYMER LID-FRAME	26.00	EACH
744531	CONDUIT JUNCTION WELL, TYPE 14, PRECAST CONCRETE/ POLYMER LID-FRAME	1.00	EACH
744544	ADJUST OR REPAIR EXISTING CONDUIT JUNCTION WELL	18.00	EACH
745602	FURNISH & INSTALL UP TO 4" SCHEDULE 80 HDPE CONDUIT (BORE)	200.00	L.F.
745604	FURNISH & INSTALL UP TO 4" SCHEDULE 80 PVC CONDUIT (TRENCH)	1,300.00	L.F.
745606	FURNISH & INSTALL UP TO 4" GALVANIZED STEEL CONDUIT (TRENCH)	200.00	L.F.
746614	POLE BASE EXTENSION	64.00	C.F.
746847	POLE BASE, TYPE 3	4.00	EACH
746924	FURNISH & INSTALL LOOP WIRE 1-CONDUCTOR #14 AWG ENCASED IN 1/4" FLEXIBLE TUBING IN A LOOP SAWCUT	7,170.00	L.F.
747516	CABINET BASE, TYPE P	4.00	EACH
748015	PERMANENT PAVEMENT STRIPING, SYMBOL/LEGEND ALKYD-THERMOPLAST IC	6,100.00	S.F.
748019	TEMPORARY MARKINGS, PAINT, 4"	350,000.00	L.F.
748026	TEMPORARY MARKINGS, PAINT SYMBOL/LEGEND	12,200.00	S.F.
748027	PERMANENT PAVEMENT STRIPING, ALKYD-THERMOPLASTIC, 12"	100.00	L.F.
748033	PERMANENT PAVEMENT STRIPING, ALKYD-THERMOPLASTIC, 5"	50.00	L.F.
748502	RAISED/RECESSED PAVEMENT MARKER	500.00	EACH
748548	PERMANENT PAVEMENT STRIPING, EPOXY RESIN PAINT, WHITE/YELLOW, 5"	175,000.00	L.F.
748549	PERMANENT PAVEMENT STRIPING, EPOXY RESIN PAINT, WHITE/YELLOW, 10"	7,100.00	L.F.

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NORTH MAINTENANCE PAVEMENT & REHABILITATION, NORTH VI, 2012

LOCATION 1 237(LANCASTER PIKE - NORTH SECTION) FROM PA LINE TO CENTERVILLE RD (RD272)

LENGTH 8686.8000 m 28500.0000 L.F. AADT 17615

GENERAL IMPROVEMENTS

2" PROFILE MILL, BITUMINOUS CONCRETE PATCHING, 2" BITUMINOUS CONCRETE TYPE C 70-22

COMMENTS:

Please see attached sheets for comments

MATERIAL ESTIMATE FOR LOCATION 1

749687	INSTALLATION OR REMOVAL OF TRAFFIC SIGN(S) ON SINGLE SIGN POST	75.00	EACH
749688	INSTALLATION OF 4" DIAMETER HOLE, LESS THAN OR EQUAL TO 6" DEPTH	10.00	EACH
749690	INSTALLATION OR REMOVAL OF TRAFFIC SIGNS ON MULTIPLE SIGN POSTS	60.00	S.F.
758000	REMOVAL OF EXISTING PORTLAND CEMENTCONCRETE PAVEMENT, CURB, SIDEWALK, ETC.	1,000.00	S.Y.
760507	PROFILE MILLING, HOT-MIX	400,000.00	SY-IN
762001	SAW CUTTING, HOT MIX	1,800.00	L.F.
762002	SAW CUTTING, CONCRETE, FULL DEPTH	100.00	L.F.
763502	MAINTENANCE OF RAILROAD TRAFFIC	1.00	L.S.
763621	CONSTRUCTION ENGINEERING, REHABILITATION	34.00	HOUR

** DENOTES FIXED PRICE ITEM

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NORTH MAINTENANCE PAVEMENT & REHABILITATION, NORTH VI, 2012

LOCATION 1 237(LANCASTER PIKE - NORTH SECTION) FROM PA LINE TO CENTERVILLE RD (RD272)

COMMENTS:

Restricted Work Hours: 8:00 AM to 4:00 PM

Recommended Traffic Control: TA3, TA3A, TA10, TA11B, TA23, TA28, TA29, TA33

Curb Ramp Locations:

Dunkin Donuts - 2
WSFS Bank - 2
Wawa - 2
Yorklyn Rd. - 6 - signalized
TD Bank north - 2
TD Bank south - 2
Goodyear - 2
Shoppes at Hokessin - 2
Wells Fargo Bank north - 2
Wells Fargo Bank south - 2
Hokessin Methodist Church - 2 - signalized
St. Mary's - 2
Sanford School - 2 - signalized
Coffee Run Apartments - 1
Westgate Dr. - 2
Snap Fitness - 2
Hokessin Park - 2 - signalized
Gateway Gardens - 2
Wilmington Western Railroad - 2 - signalized
Rita's - 2
Pizza Pro - 2
Hokessin Cleaners - 2
Williams Auto - 4
Sunoco south - 2
Sunoco north - 1
Shell - 3

Triangular Channelizing Islands

Yorklyn Rd. west - signalized
Yorklyn Rd. east - signalized
TD Bank
Gateway Gardens
Sunoco north

Entrance and Driveway Locations:

Valley Rd. 25'
Valley Rd. 60'
Brackenville Rd. east 40'
Brackenville Rd. west 30'
Hampton way 15'
Old Hobson Rd. 10'
Bishop Dr. 15'
Snap Fitness 45'
NCCPD 40'
#7625 5'

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NORTH MAINTENANCE PAVEMENT & REHABILITATION, NORTH VI, 2012

LOCATION 1 237(LANCASTER PIKE - NORTH SECTION) FROM PA LINE TO CENTERVILLE
RD (RD272)

Gateway north & south 15' each
Hartnett 15'
Rolling Mill Rd. 25'
Rita's 15'
#7359 15'
Yorklyn Rd. south east 50'
Yorklyn Rd. north east 55'
Yorklyn Rd. north west 35'
Yorklyn Rd. southe west 45'
Sunoco 20'
Shell 20'
Mitchell Rd. 50'
TD Bank north 20'
TD Bank south 15'
Goodyear entrance 20'
Shoppes @ Hokessin 20'
Hokessin United Methodist Church 10'
St. Mary's of the Assumption Church 15'
Sanford School 15'
Westgate Dr. 80'
Hercules Rd. 60'

Manhole Adjustments:

6 - DelDOT storm
15 - NCCDSS
16 - Verizon
12 - Water valves by others
16 - Delmarva Gas valves by others
10 - Delmarva Gas manholes by others

General Notes:

Wilmington and Western railroad, Hockessin Montessori School, St. Mary's of the Assumption Church, Berea Presbyterian Church, Sanford School at this location

DELAWARE DEPARTMENT OF TRANSPORTATION

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NORTH MAINTENANCE PAVEMENT & REHABILITATION, NORTH VI, 2012

LOCATION 2 272(CENTERVILLE ROAD) FROM GREENBANK RD (RD330) TO LANCASTER PIKE (RD237)
LENGTH 2694.4320 m 8840.0000 L.F. AADT 10925
GENERAL IMPROVEMENTS
 2" PROFILE MILL, BITUMINOUS CONCRETE PATCHING, 2" BITUMINOUS CONCRETE TYPE C 76-22

COMMENTS:
 Please see attached sheets for comments

Unofficial

MATERIAL ESTIMATE FOR LOCATION 2

302005	GRADED AGGREGATE BASE COURSE, TYPE B	40.00	TON
401696	ENTRANCE, DRIVEWAY AND INTERSECTING STREET PAVING SURCHARGE	600.00	TON
401755	RECYCLED ASPHALT PAVEMENT MILLINGS FOR ROADWAY EDGE	200.00	TON
401823	BITUMINOUS CONCRETE, SUPERPAVE, BITUMINOUS CONCRETE BASE COURSE, 160 GYRATIONS, PG 64-22, PATCHING	300.00	TON
401833	BITUMINOUS CONCRETE, SUPERPAVE, TYPE C, 160 GYRATIONS, PG 76-22, (NON-CARBONATE STONE)	7,000.00	TON
402000	HOT-MIX BITUMINOUS CONCRETE AND/OR COLD-LAID BITUMINOUS CONCRETE (TRM)	300.00	TON
406001	BITUMINOUS CONCRETE PATCHING	5,500.00	SY-IN
701018	INTEGRAL PORTLAND CEMENT CONCRETE CURB & GUTTER, TYPE 3-2	90.00	L.F.
705001	P.C.C. SIDEWALK, 4"	1,950.00	S.F.
705007	SIDEWALK SURFACE DETECTABLE WARNING SYSTEM	450.00	S.F.
705008	CURB RAMP, TYPE 1	1,060.00	S.F.
705009	CURB RAMP, TYPE 2, 3, AND/OR 4	3,700.00	S.F.
705524	DECTABLE WARNINGS RETROFIT	60.00	S.F.
705530	TRIANGULAR CHANNELIZING ISLANDS	2,500.00	S.F.
708060	REPLACE DRAINAGE INLET GRATE(S)	85.00	EACH
708061	REPLACE DRAINAGE INLET FRAME(S)	85.00	EACH
710001	ADJUSTING AND REPAIRING EXISTING DRAINAGE INLET	103.00	EACH
710002	ADJUSTING AND REPAIRING EXISTING MANHOLE	39.00	EACH
743003	ARROWPANELS, TYPE C	145.00	EA-DY
743004	FURNISH AND MAINTAIN PORTABLE CHANGEABLE MESSAGE SIGN	20.00	EA-DY
743007	** TRAFFIC OFFICERS	1,450.00	HOUR
743010	FURNISH AND MAINTAIN TRUCK MOUNTED ATTENUATOR, TYPE II	145.00	EA-DY
743056	** FLAGGER, NEW CASTLE COUNTY, FEDERAL	4,000.00	HOUR

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NORTH MAINTENANCE PAVEMENT & REHABILITATION, NORTH VI, 2012

LOCATION 2 272(CENTERVILLE ROAD) FROM GREENBANK RD (RD330) TO LANCASTER PIKE (RD237)

LENGTH 2694.4320 m 8840.0000 L.F. AADT 10925

GENERAL IMPROVEMENTS

2" PROFILE MILL, BITUMINOUS CONCRETE PATCHING, 2" BITUMINOUS CONCRETE TYPE C 76-22

COMMENTS:

Please see attached sheets for comments

Unofficial

MATERIAL ESTIMATE FOR LOCATION 2

743065	** FLAGGER, NEW CASTLE COUNTY, FEDERAL, OVERTIME	400.00	HOUR
744505	ADJUST OR REPAIR EXISTING CONDUIT JUNCTION WELL	8.00	EACH
744530	CONDUIT JUNCTION WELL, TYPE 11, PRECAST CONCRETE/ POLYMER LID-FRAME	30.00	EACH
744531	CONDUIT JUNCTION WELL, TYPE 14, PRECAST CONCRETE/ POLYMER LID-FRAME	3.00	EACH
744544	ADJUST OR REPAIR EXISTING CONDUIT JUNCTION WELL	6.00	EACH
745602	FURNISH & INSTALL UP TO 4" SCHEDULE 80 HDPE CONDUIT (BORE)	600.00	L.F.
745604	FURNISH & INSTALL UP TO 4" SCHEDULE 80 PVC CONDUIT (TRENCH)	1,500.00	L.F.
745606	FURNISH & INSTALL UP TO 4" GALVANIZED STEEL CONDUIT (TRENCH)	150.00	L.F.
746614	POLE BASE EXTENSION	192.00	C.F.
746847	POLE BASE, TYPE 3	12.00	EACH
746850	POLE BASE, TYPE 4	14.00	EACH
746924	FURNISH & INSTALL LOOP WIRE 1-CONDUCTOR #14 AWG ENCASED IN 1/4" FLEXIBLE TUBING IN A LOOP SAWCUT	3,300.00	L.F.
747516	CABINET BASE, TYPE P	3.00	EACH
748015	PERMANENT PAVEMENT STRIPING, SYMBOL/LEGEND ALKYD-THERMOPLAST IC	4,000.00	S.F.
748019	TEMPORARY MARKINGS, PAINT, 4"	88,000.00	L.F.
748026	TEMPORARY MARKINGS, PAINT SYMBOL/LEGEND	8,000.00	S.F.
748033	PERMANENT PAVEMENT STRIPING, ALKYD-THERMOPLASTIC, 5"	50.00	L.F.
748502	RAISED/RECESSED PAVEMENT MARKER	165.00	EACH
748548	PERMANENT PAVEMENT STRIPING, EPOXY RESIN PAINT, WHITE/YELLOW, 5"	44,000.00	L.F.
748549	PERMANENT PAVEMENT STRIPING, EPOXY RESIN PAINT, WHITE/YELLOW, 10"	100.00	L.F.
749687	INSTALLATION OR REMOVAL OF TRAFFIC SIGN(S) ON SINGLE SIGN POST	65.00	EACH
749688	INSTALLATION OF 4" DIAMETER HOLE, LESS THAN OR EQUAL TO 6" DEPTH	10.00	EACH
749690	INSTALLATION OR REMOVAL OF TRAFFIC SIGNS ON MULTIPLE SIGN POSTS	50.00	S.F.
758000	REMOVAL OF EXISTING PORTLAND CEMENTCONCRETE PAVEMENT, CURB, SIDEWALK, ETC.	400.00	S.Y.

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NORTH MAINTENANCE PAVEMENT & REHABILITATION, NORTH VI, 2012

LOCATION 2 272(CENTERVILLE ROAD) FROM GREENBANK RD (RD330) TO LANCASTER PIKE (RD237)

LENGTH 2694.4320 m 8840.0000 L.F. AADT 10925

GENERAL IMPROVEMENTS

2" PROFILE MILL, BITUMINOUS CONCRETE PATCHING, 2" BITUMINOUS CONCRETE TYPE C 76-22

COMMENTS:

Please see attached sheets for comments

MATERIAL ESTIMATE FOR LOCATION 2

760001	PAVEMENT - MILLING CONCRETE	1,100.00	SY-IN
760507	PROFILE MILLING, HOT-MIX	125,800.00	SY-IN
762001	SAW CUTTING, HOT MIX	1,200.00	L.F.
763621	CONSTRUCTION ENGINEERING, REHABILITATION	22.00	HOUR

** DENOTES FIXED PRICE ITEM

DELAWARE DEPARTMENT OF TRANSPORTATION

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NORTH MAINTENANCE PAVEMENT & REHABILITATION, NORTH VI, 2012

LOCATION 2 272(CENTERVILLE ROAD) FROM GREENBANK RD (RD330) TO LANCASTER PIKE (RD237)

COMMENTS:

Restricted Work Hours: 8:00 AM to 4:00 PM

Recommended Traffic Control: TA3, TA3A, TA10, TA11B, TA23, TA28, TA29, TA33

Curb Ramp Locations:

Greenbank Rd. - 7 - signalized
Trenton Place - 2
Albany Place - 2
Turnstone Dr. south - 2
Turnstone Dr. north - 2
Lancaster Pike - 2 - signalized - 4
St. Catherine of Sienna Church north - 2
St. Catherine Of Sienna Church south - 2
Faulkland Rd. west - 1 - signalized
Newell Dr. - 2
Marbrook School north - 2
Marbrook School south - 2
&-11 - 4
Valero - 2
Amish Mill - 2

Triangular Channelizing Islands

Lancaster Pike - signalized
Faulkland Rd. - signalized
Pass through - signalized

Entrance and Driveway Locations:

Greenbank Rd. east side 60'
Greenbank Rd. west side 60'
Faulkland Rd. east side 65'
Faulkland Rd. west side 60'
Red Clay Dr. West 35'
Trenton Place 25'
Albany Place 15'
Brookland Ave. 20'
Maryland Ave. 30'
Rhode Island Ave. 20'
Vermont Ave. 20'
Rothwell Rd. 20'
Turnstone Dr. south east 45'
Turnstone Dr. north east 20'
Turnstone Dr. north west 30'
St. Catherines north 15'
St. Catherines south 20'
Woodview Dr. 45'
Newell Dr. 30'
Marbrook Elementry north 30'
Marbrook Elementry south 20'
Lori Dr. 40'
Elder Dr. 40'
7-11 10'

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NORTH MAINTENANCE PAVEMENT & REHABILITATION, NORTH VI, 2012

LOCATION 2 272(CENTERVILLE ROAD) FROM GREENBANK RD (RD330) TO LANCASTER
PIKE (RD237)

Valero north 10'
Amish Mill 25'

Manhole Adjustments:

- 19 - DeIDOT
- 16 - NCCDSS
- 4 - Verizon
- 25 - Water valves by others
- 1 - Delmarva Gas valve by others
- 1 - Delmarva Gas manhole by others

General Notes:

Marlbrook School, St. Catherine of Sienna church and school at this location

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NORTH MAINTENANCE PAVEMENT & REHABILITATION, NORTH VI, 2012

LOCATION 3 **330(GREENBANK RD) FROM CENTERVILLE DR (RD272) TO CENTRE RD (RD271)**
 LENGTH 463.2960 m 1520.0000 L.F. AADT 10468
GENERAL IMPROVEMENTS
 2" PROFILE MILL, BITUMINOUS CONCRETE PATCHING, 2" BITUMINOUS CONCRETE TYPE C 64-22

COMMENTS:
 Please see attached sheets for comments

Unofficial

MATERIAL ESTIMATE FOR LOCATION 3

302005	GRADED AGGREGATE BASE COURSE, TYPE B	20.00	TON
401696	ENTRANCE, DRIVEWAY AND INTERSECTING STREET PAVING SURCHARGE	20.00	TON
401755	RECYCLED ASPHALT PAVEMENT MILLINGS FOR ROADWAY EDGE	50.00	TON
401823	BITUMINOUS CONCRETE, SUPERPAVE, BITUMINOUS CONCRETE BASE COURSE, 160 GYRATIONS, PG 64-22, PATCHING	120.00	TON
401827	BITUMINOUS CONCRETE, SUPERPAVE, TYPE C, 160 GYRATIONS, PG 64-22 (NON-CARBONATE STONE)	820.00	TON
402000	HOT-MIX BITUMINOUS CONCRETE AND/OR COLD-LAID BITUMINOUS CONCRETE (TRM)	60.00	TON
406001	BITUMINOUS CONCRETE PATCHING	2,200.00	SY-IN
503001	PATCHING P.C.C. PAVEMENT, 6' TO 15', TYPE A	70.00	S.Y.
503006	DOWEL BARS	100.00	EACH
701022	INTEGRAL PORTLAND CEMENT CONCRETE CURB & GUTTER, TYPE 3-8	100.00	L.F.
705001	P.C.C. SIDEWALK, 4"	600.00	S.F.
708060	REPLACE DRAINAGE INLET GRATE(S)	7.00	EACH
708061	REPLACE DRAINAGE INLET FRAME(S)	7.00	EACH
710001	ADJUSTING AND REPAIRING EXISTING DRAINAGE INLET	15.00	EACH
710002	ADJUSTING AND REPAIRING EXISTING MANHOLE	5.00	EACH
743003	ARROW PANELS, TYPE C	25.00	EA-DY
743004	FURNISH AND MAINTAIN PORTABLE CHANGEABLE MESSAGE SIGN	10.00	EA-DY
743007	** TRAFFIC OFFICERS	80.00	HOURLY
743010	FURNISH AND MAINTAIN TRUCK MOUNTED ATTENUATOR, TYPE II	10.00	EA-DY
743056	** FLAGGER, NEW CASTLE COUNTY, FEDERAL	530.00	HOURLY
743065	** FLAGGER, NEW CASTLE COUNTY, FEDERAL, OVERTIME	53.00	HOURLY
744505	ADJUST OR REPAIR EXISTING CONDUIT JUNCTION WELL	1.00	EACH
748015	PERMANENT PAVEMENT STRIPING, SYMBOL/LEGEND ALKYD-THERMOPLASTIC	100.00	S.F.

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NORTH MAINTENANCE PAVEMENT & REHABILITATION, NORTH VI, 2012

LOCATION 3 330(GREENBANK RD) FROM CENTERVILLE DR (RD272) TO CENTRE RD (RD271)
LENGTH 463.2960 m 1520.0000 L.F. AADT 10468
GENERAL IMPROVEMENTS
2" PROFILE MILL, BITUMINOUS CONCRETE PATCHING, 2" BITUMINOUS CONCRETE TYPE C 64-22

COMMENTS:

Please see attached sheets for comments

MATERIAL ESTIMATE FOR LOCATION 3

748019	TEMPORARY MARKINGS, PAINT, 4"	12,000.00	L.F.
748026	TEMPORARY MARKINGS, PAINT SYMBOL/LEGEND	200.00	S.F.
748033	PERMANENT PAVEMENT STRIPING, ALKYD-THERMOPLASTIC, 5"	50.00	L.F.
748502	RAISED/RECESSED PAVEMENT MARKER	40.00	EACH
748537	PERMANENT PAVEMENT STRIPING, EPOXY RESIN PAINT, BLACK, 8"	500.00	L.F.
748548	PERMANENT PAVEMENT STRIPING, EPOXY RESIN PAINT, WHITE/YELLOW, 5"	6,000.00	L.F.
748549	PERMANENT PAVEMENT STRIPING, EPOXY RESIN PAINT, WHITE/YELLOW, 10"	100.00	L.F.
749687	INSTALLATION OR REMOVAL OF TRAFFIC SIGN(S) ON SINGLE SIGN POST	10.00	EACH
758000	REMOVAL OF EXISTING PORTLAND CEMENTCONCRETE PAVEMENT, CURB, SIDEWALK, ETC.	100.00	S.Y.
760507	PROFILE MILLING, HOT-MIX	15,000.00	SY-IN
762001	SAW CUTTING, HOT MIX	500.00	L.F.
762002	SAW CUTTING, CONCRETE, FULL DEPTH	100.00	L.F.

** DENOTES FIXED PRICE ITEM

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NORTH MAINTENANCE PAVEMENT & REHABILITATION, NORTH VI, 2012

LOCATION 3 330(GREENBANK RD) FROM CENTERVILLE DR (RD272) TO CENTRE RD (RD271)

COMMENTS:

Restricted Work Hours: 8:00 AM to 4:00 PM

Recommended Traffic Control: TA3A, TA23, TA28, TA29, TA33

Curb Ramp Location:

No curb ramps anticipated at this location

Entrance and Driveway Locations:

Hillside 20'
State Area 5'

Manhole Adjustments:

- 6 - NCCDSS
- 2 - Delmarva Gas by others
- 7 - Water by others

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NORTH MAINTENANCE PAVEMENT & REHABILITATION, NORTH VI, 2012

LOCATION 4 **333(CENTERVILLE ROAD - GM SECTION) FROM BOXWOOD RD (RD334) TO GREENBANK RD (RD330)**
 LENGTH 1524.0000 m 5000.0000 L.F. AADT 13063
GENERAL IMPROVEMENTS
 2" PROFILE MILL, BITUMINOUS CONCRETE PATCHING, 2" BITUMINOUS CONCRETE TYPE C 76-22

COMMENTS:

Please see attached sheets for comments

MATERIAL ESTIMATE FOR LOCATION 4

302005	GRADED AGGREGATE BASE COURSE, TYPE B	100.00	TON
401696	ENTRANCE, DRIVEWAY AND INTERSECTING STREET PAVING SURCHARGE	400.00	TON
401823	BITUMINOUS CONCRETE, SUPERPAVE, BITUMINOUS CONCRETE BASE COURSE, 160 GYRATIONS, PG 64-22, PATCHING	1,700.00	TON
401833	BITUMINOUS CONCRETE, SUPERPAVE, TYPE C, 160 GYRATIONS, PG 76-22, (NON-CARBONATE STONE)	4,400.00	TON
402000	HOT-MIX BITUMINOUS CONCRETE AND/OR COLD-LAID BITUMINOUS CONCRETE (TRM)	140.00	TON
406001	BITUMINOUS CONCRETE PATCHING	31,000.00	SY-IN
701020	INTEGRAL PORTLAND CEMENT CONCRETE CURB & GUTTER, TYPE 1-8	800.00	L.F.
701022	INTEGRAL PORTLAND CEMENT CONCRETE CURB & GUTTER, TYPE 3-8	300.00	L.F.
705001	P.C.C. SIDEWALK, 4"	400.00	S.F.
705007	SIDEWALK SURFACE DETECTABLE WARNING SYSTEM	340.00	S.F.
705008	CURB RAMP, TYPE 1	380.00	S.F.
705009	CURB RAMP, TYPE 2, 3, AND/OR 4	2,800.00	S.F.
705530	TRIANGULAR CHANNELIZING ISLANDS	3,000.00	S.F.
708060	REPLACE DRAINAGE INLET GRATE(S)	21.00	EACH
708061	REPLACE DRAINAGE INLET FRAME(S)	21.00	EACH
710001	ADJUSTING AND REPAIRING EXISTING DRAINAGE INLET	21.00	EACH
710002	ADJUSTING AND REPAIRING EXISTING MANHOLE	15.00	EACH
743003	ARROWPANELS, TYPE C	70.00	EA-DY
743004	FURNISH AND MAINTAIN PORTABLE CHANGEABLE MESSAGE SIGN	15.00	EA-DY
743007	** TRAFFIC OFFICERS	700.00	HOUR
743010	FURNISH AND MAINTAIN TRUCK MOUNTED ATTENUATOR, TYPE II	60.00	EA-DY
743056	** FLAGGER, NEW CASTLE COUNTY, FEDERAL	2,300.00	HOUR
743065	** FLAGGER, NEW CASTLE COUNTY, FEDERAL, OVERTIME	230.00	HOUR

DELAWARE DEPARTMENT OF TRANSPORTATION

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NORTH MAINTENANCE PAVEMENT & REHABILITATION, NORTH VI, 2012

LOCATION 4 333(CENTERVILLE ROAD - GM SECTION) FROM BOXWOOD RD (RD334) TO GREENBANK RD (RD330)

LENGTH 1524.0000 m 5000.0000 L.F. AADT 13063

GENERAL IMPROVEMENTS

2" PROFILE MILL, BITUMINOUS CONCRETE PATCHING, 2" BITUMINOUS CONCRETE TYPE C 76-22

COMMENTS:

Please see attached sheets for comments

MATERIAL ESTIMATE FOR LOCATION 4

744505	ADJUST OR REPAIR EXISTING CONDUIT JUNCTION WELL	5.00	EACH
744530	CONCUIT JUNCTION WELL, TYPE 11, PRECAST CONCRETE/ POLYMER LID-FRAME	20.00	EACH
744531	CONDUIT JUNCTION WELL, TYPE 14, PRECAST CONCRETE/ POLYMER LID-FRAME	2.00	EACH
744544	ADJUST OR REPAIR EXISTING CONDUIT JUNCTION WELL	4.00	EACH
745602	FURNISH & INSTALL UP TO 4" SCHEDULE 80 HDPE CONDUIT (BORE)	400.00	L.F.
745604	FURNISH & INSTALL UP TO 4" SCHEDULE 80 PVC CONDUIT (TRENCH)	1,000.00	L.F.
745606	FURNISH & INSTALL UP TO 4" GALVANIZED STEEL CONDUIT (TRENCH)	100.00	L.F.
746614	POLE BASE EXTENSION	128.00	C.F.
746847	POLE BASE, TYPE 3	7.00	EACH
746850	POLE BASE, TYPE 4	9.00	EACH
746924	FURNISH & INSTALL LOOP WIRE 1-CONDUCTOR #14 AWG ENCASED IN 1/4" FLEXIBLE TUBING IN A LOOP SAWCUT	1,940.00	L.F.
747516	CABINET BASE, TYPE P	2.00	EACH
748015	PERMANENT PAVEMENT STRIPING, SYMBOL/LEGEND ALKYD-THERMOPLAST IC	2,000.00	S.F.
748019	TEMPORARY MARKINGS, PAINT, 4"	60,000.00	L.F.
748026	TEMPORARY MARKINGS, PAINT SYMBOL/LEGEND	4,000.00	S.F.
748033	PERMANENT PAVEMENT STRIPING, ALKYD-THERMOPLASTIC, 5"	50.00	L.F.
748502	RAISED/RECESSED PAVEMENT MARKER	190.00	EACH
748548	PERMANENT PAVEMENT STRIPING, EPOXY RESIN PAINT, WHITE/YELLOW, 5"	30,000.00	L.F.
748549	PERMANENT PAVEMENT STRIPING, EPOXY RESIN PAINT, WHITE/YELLOW, 10"	100.00	L.F.
749687	INSTALLATION OR REMOVAL OF TRAFFIC SIGN(S) ON SINGLE SIGN POST	50.00	EACH
749688	INSTALLATION OF 4" DIAMETER HOLE, LESS THAN OR EQUAL TO 6" DEPTH	5.00	EACH
749690	INSTALLATION OR REMOVAL OF TRAFFIC SIGNS ON MULTIPLE SIGN POSTS	50.00	S.F.
758000	REMOVAL OF EXISTING PORTLAND CEMENTCONCRETE PAVEMENT, CURB, SIDEWALK, ETC.	300.00	S.Y.
760507	PROFILE MILLING, HOT-MIX	80,000.00	SY-IN

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NORTH MAINTENANCE PAVEMENT & REHABILITATION, NORTH VI, 2012

LOCATION 4 333(CENTERVILLE ROAD - GM SECTION) FROM BOXWOOD RD (RD334) TO GREENBANK RD (RD330)

LENGTH 1524.0000 m 5000.0000 L.F. AADT 13063

GENERAL IMPROVEMENTS

2" PROFILE MILL, BITUMINOUS CONCRETE PATCHING, 2" BITUMINOUS CONCRETE TYPE C 76-22

COMMENTS:

Please see attached sheets for comments

MATERIAL ESTIMATE FOR LOCATION 4

762001	SAW CUTTING, HOT MIX	1,700.00	L.F.
762002	SAW CUTTING, CONCRETE, FULL DEPTH	100.00	L.F.
763502	MAINTENANCE OF RAILROAD TRAFFIC	1.00	L.S.
763621	CONSTRUCTION ENGINEERING, REHABILITATION	13.00	HOUR

** DENOTES FIXED PRICE ITEM

LOCATION 4 333(CENTERVILLE ROAD - GM SECTION) FROM BOXWOOD RD (RD334) TO GREENBANK RD (RD330)

COMMENTS:

Restricted Work Hours: 8:00 AM to 4:00 PM

Recommended Traffic Control: TA23, TA28, TA29, TA33

Curb Ramp Locations:

Boxwood Rd. - 3 - signalized
GM entrance - Route 141 ramp - 4 - signalized
Old Capitol Trail - 6 - signalized
Route 2 east ramp - 2 - signalized
Wal Mart - 2
Benchmark Transmission - 2
Boxwood Commerce Center - 1
Bus Depot Entrance - 2

Triangular Channelizing Islands:

GM Entrance - Route 141 ramp - signalized
Boxwood Rd. - signalized

Entrance and Driveway Locations:

Boxwood Rd. 2 @ 60'
GM entrance - Route 141 ramp 20'
Old Capitol Trail 2 @ 50'
Greenbank Rd. 2 @ 50'
GM entrance - north end 20'
CSX 20'
Transflo 30'
Reybold Self Storage 20'
Wal Mart 30'
Benchmark Transmission 20'
Route 141 ramp 15'
Park & Ride south 30'
Park & Ride north 20'
Deals on Wheels 2 @ 10'
Steve's Tavern 2 @ 10'
Industrial Park 10'
Route 2 Ramp 20'

Manhole Adjustments:

8 - DelDOT storm
6 - NCCDSS
1 - Verizon
1 - Delmarva Gas by others
2 - Water valves by others

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NORTH MAINTENANCE PAVEMENT & REHABILITATION, NORTH VI, 2012

CONTRACT QUANTITIES SUMMARY SHEET

302005	GRADED AGGREGATE BASE COURSE, TYPE B	360.00	TON
401696	ENTRANCE, DRIVEWAY AND INTERSECTING STREET PAVING SURCHARGE	1,740.00	TON
401755	RECYCLED ASPHALT PAVEMENT MILLINGS FOR ROADWAY EDGE	350.00	TON
401823	BITUMINOUS CONCRETE, SUPERPAVE, BITUMINOUS CONCRETE BASE COURSE, 160 GYRATIONS, PG 64-22, PATCHING	3,620.00	TON
401827	BITUMINOUS CONCRETE, SUPERPAVE, TYPE C, 160 GYRATIONS, PG 64-22 (NON-CARBONATE STONE)	820.00	TON
401830	BITUMINOUS CONCRETE, SUPERPAVE, TYPE C, 160 GYRATIONS, PG 70-22 (NON-CARBONATE STONE)	22,200.00	TON
401833	BITUMINOUS CONCRETE, SUPERPAVE, TYPE C, 160 GYRATIONS, PG 76-22, (NON-CARBONATE STONE)	11,400.00	TON
402000	HOT-MIX BITUMINOUS CONCRETE AND/OR COLD-LAID BITUMINOUS CONCRETE (TRM)	800.00	TON
406001	BITUMINOUS CONCRETE PATCHING	66,000.00	SY-IN
503001	PATCHING P.C.C. PAVEMENT, 6' TO 15', TYPE A	70.00	S.Y.
503006	DOWEL BARS	100.00	EACH
701004	PORTLAND CEMENT CONCRETE VALLEY GUTTER, 8"	370.00	S.Y.
701011	PORTLAND CEMENT CONCRETE CURB, TYPE 2	200.00	L.F.
701018	INTEGRAL PORTLAND CEMENT CONCRETE CURB & GUTTER, TYPE 3-2	90.00	L.F.
701020	INTEGRAL PORTLAND CEMENT CONCRETE CURB & GUTTER, TYPE 1-8	1,800.00	L.F.
701022	INTEGRAL PORTLAND CEMENT CONCRETE CURB & GUTTER, TYPE 3-8	400.00	L.F.
705001	P.C.C. SIDEWALK, 4"	5,150.00	S.F.
705002	P.C.C. SIDEWALK, 6"	400.00	S.F.
705007	SIDEWALK SURFACE DETECTABLE WARNING SYSTEM	1,480.00	S.F.
705008	CURB RAMP, TYPE 1	4,740.00	S.F.
705009	CURB RAMP, TYPE 2, 3, AND/OR 4	8,780.00	S.F.
705524	DETECTABLE WARNINGS RETROFIT	60.00	S.F.
705530	TRIANGULAR CHANNELIZING ISLANDS	8,250.00	S.F.
708060	REPLACE DRAINAGE INLET GRATE(S)	124.00	EACH

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CONTRACT QUANTITIES SUMMARY SHEET

708061	REPLACE DRAINAGE INLET FRAME(S)	124.00	EACH
710001	ADJUSTING AND REPAIRING EXISTING DRAINAGE INLET	184.00	EACH
710002	ADJUSTING AND REPAIRING EXISTING MANHOLE	96.00	EACH
732004	TOPSOIL (TON)	100.00	TON
734013	PERMANENT GRASS SEEDING, DRY GROUND	250.00	S.Y.
743003	ARROWPANELS, TYPE C	412.00	EA-DY
743004	FURNISH AND MAINTAIN PORTABLE CHANGEABLE MESSAGE SIGN	75.00	EA-DY
743007	** TRAFFIC OFFICERS	3,830.00	HOUR
743010	FURNISH AND MAINTAIN TRUCK MOUNTED ATTENUATOR, TYPE II	385.00	EA-DY
743056	** FLAGGER, NEW CASTLE COUNTY, FEDERAL	11,330.00	HOUR
743065	** FLAGGER, NEW CASTLE COUNTY, FEDERAL, OVERTIME	1,133.00	HOUR
744505	ADJUST OR REPAIR EXISTING CONDUIT JUNCTION WELL	20.00	EACH
744530	CONCUIT JUNCTION WELL, TYPE 11, PRECAST CONCRETE/ POLYMER LID-FRAME	76.00	EACH
744531	CONDUIT JUNCTION WELL, TYPE 14, PRECAST CONCRETE/ POLYMER LID-FRAME	6.00	EACH
744544	ADJUST OR REPAIR EXISTING CONDUIT JUNCTION WELL	28.00	EACH
745602	FURNISH & INSTALL UP TO 4" SCHEDULE 80 HDPE CONDUIT (BORE)	1,200.00	L.F.
745604	FURNISH & INSTALL UP TO 4" SCHEDULE 80 PVC CONDUIT (TRENCH)	3,800.00	L.F.
745606	FURNISH & INSTALL UP TO 4" GALVANIZED STEEL CONDUIT (TRENCH)	450.00	L.F.
746614	POLE BASE EXTENSION	384.00	C.F.
746847	POLE BASE, TYPE 3	23.00	EACH
746850	POLE BASE, TYPE 4	23.00	EACH
746924	FURNISH & INSTALL LOOP WIRE 1-CONDUCTOR #14 AWG ENCASED IN 1/4" FLEXIBLE TUBING IN A LOOP SAWCUT	12,410.00	L.F.
747516	CABINET BASE, TYPE P	9.00	EACH
748015	PERMANENT PAVEMENT STRIPING, SYMBOL/LEGEND ALKYD-THERMOPLAST IC	12,200.00	S.F.
748019	TEMPORARY MARKINGS, PAINT, 4"	510,000.00	L.F.
748026	TEMPORARY MARKINGS, PAINT SYMBOL/LEGEND	24,400.00	S.F.
748027	PERMANENT PAVEMENT STRIPING, ALKYD-THERMOPLASTIC, 12"	100.00	L.F.

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NORTH MAINTENANCE PAVEMENT & REHABILITATION, NORTH VI, 2012

CONTRACT QUANTITIES SUMMARY SHEET

748033	PERMANENT PAVEMENT STRIPING, ALKYD-THERMOPLASTIC, 5"	200.00	L.F.
748502	RAISED/RECESSED PAVEMENT MARKER	895.00	EACH
748537	PERMANENT PAVEMENT STRIPING, EPOXY RESIN PAINT, BLACK, 8"	500.00	L.F.
748548	PERMANENT PAVEMENT STRIPING, EPOXY RESIN PAINT, WHITE/YELLOW, 5"	255,000.00	L.F.
748549	PERMANENT PAVEMENT STRIPING, EPOXY RESIN PAINT, WHITE/YELLOW, 10"	7,400.00	L.F.
749687	INSTALLATION OR REMOVAL OF TRAFFIC SIGN(S) ON SINGLE SIGN POST	200.00	EACH
749688	INSTALLATION OF 4" DIAMETER HOLE, LESS THAN OR EQUAL TO 6" DEPTH	25.00	EACH
749690	INSTALLATION OR REMOVAL OF TRAFFIC SIGNS ON MULTIPLE SIGN POSTS	160.00	S.F.
758000	REMOVAL OF EXISTING PORTLAND CEMENT CONCRETE PAVEMENT, CURB, SIDEWALK, ETC.	1,800.00	S.Y.
760001	PAVEMENT - MILLING CONCRETE	1,100.00	SY-IN
760507	PROFILE MILLING, HOT-MIX	620,800.00	SY-IN
762001	SAW CUTTING, HOT MIX	5,200.00	L.F.
762002	SAW CUTTING, CONCRETE, FULL DEPTH	300.00	L.F.
763000	INITIAL EXPENSE	LUMP	SUM
763502	MAINTENANCE OF RAILROAD TRAFFIC	1.00	L.S.
763621	CONSTRUCTION ENGINEERING, REHABILITATION	69.00	HOURLY
763643	MAINTENANCE OF TRAFFIC, ALL INCLUSIVE	LUMP	SUM

** DENOTES FIXED PRICE ITEM