

THE STATE OF DELAWARE



DEPARTMENT OF TRANSPORTATION
OFFICE OF TRANSPORTATION SOLUTIONS
PLANS AND SPECIFICATIONS FOR

CONTRACT NUMBER- T201603101 CANAL

FEDERAL AID NUMBER- NONE

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CONTRACT TITLE COMMUNITY TRANSPORTATION FUND, NORTH I, 2016

PLANS PREPARED BY: [Signature]
DESIGN TECHNICIAN

DATE RECOMMENDED: 3/7/16

[Signature]

PUBLIC WORKS ENGINEER:

DATE RECOMMENDED: 3/8/16

[Signature]

MAINTENANCE ENGINEER:

DATE RECOMMENDED: 3/7/16

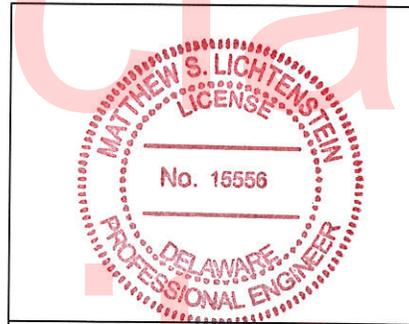
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CONTRACTS ENGINEER:

DATE APPROVED: 3/7/16

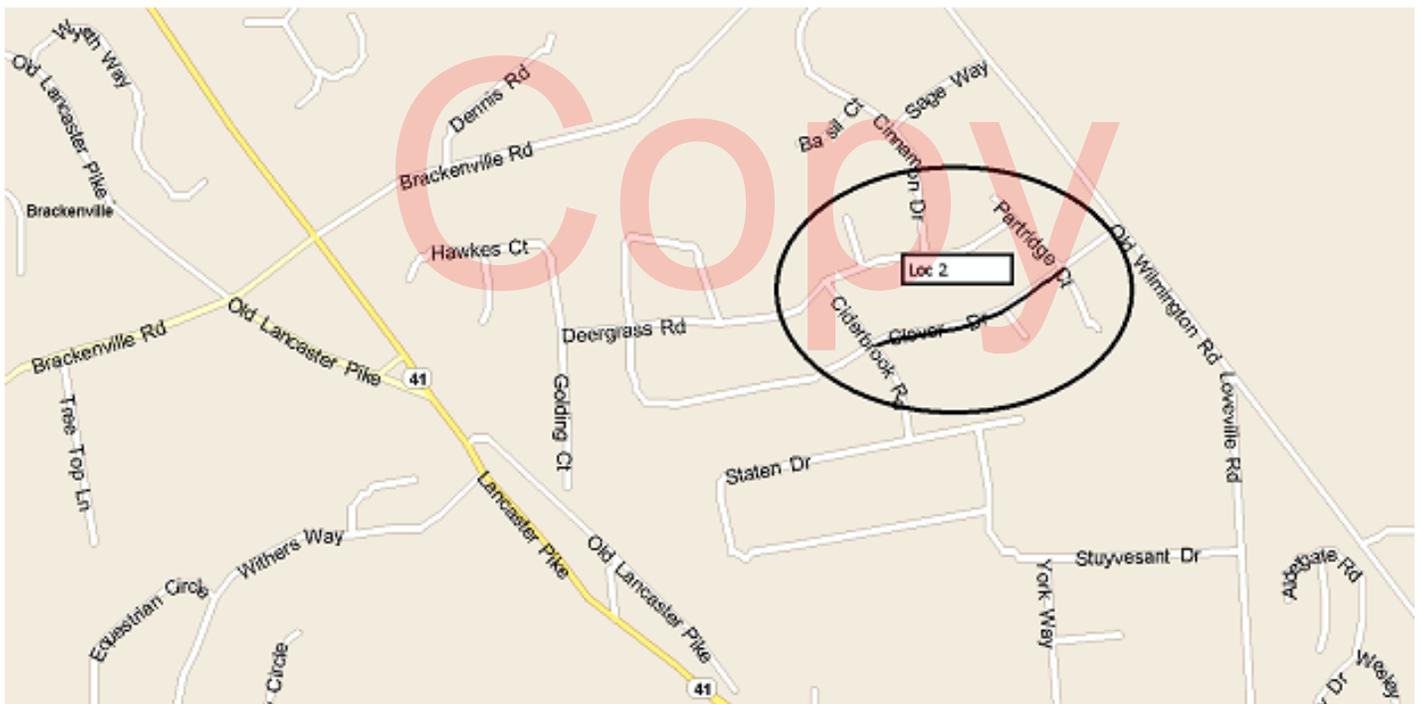
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DISTRICT ENGINEER:



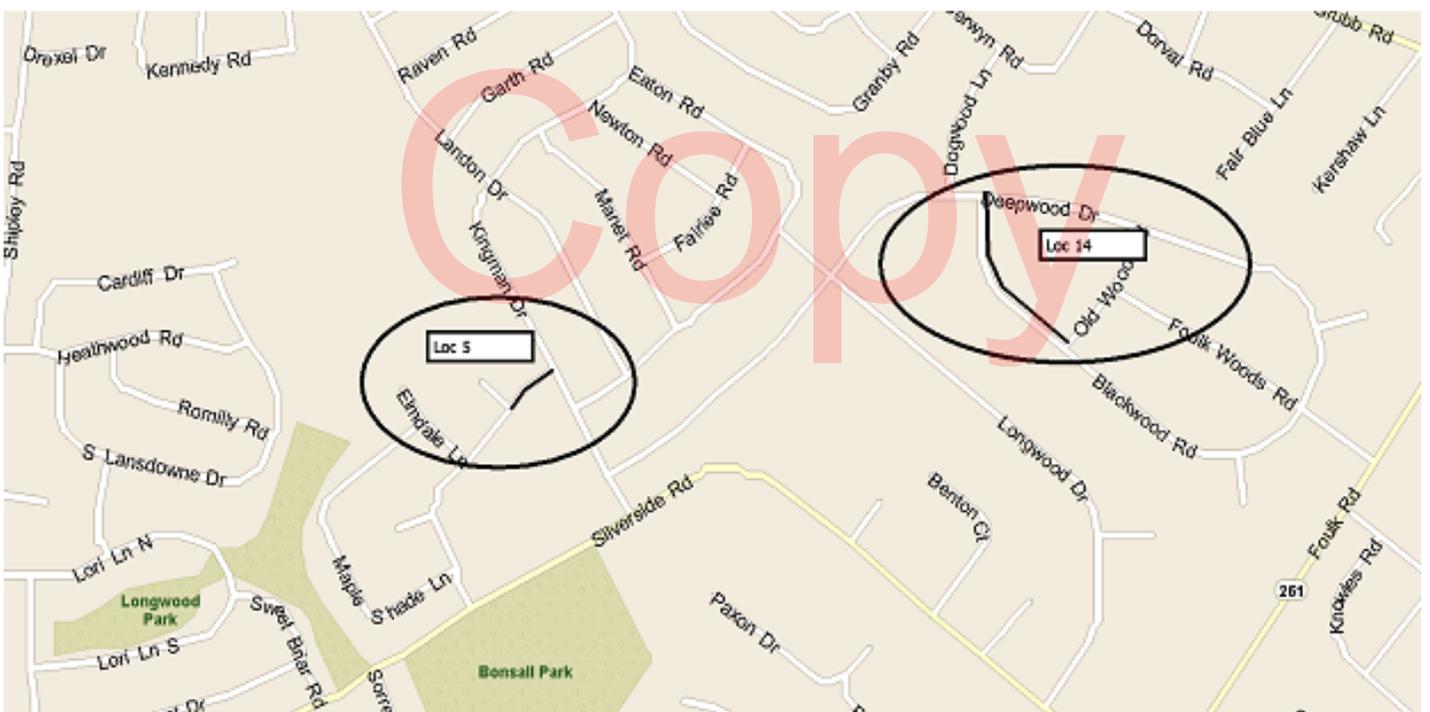
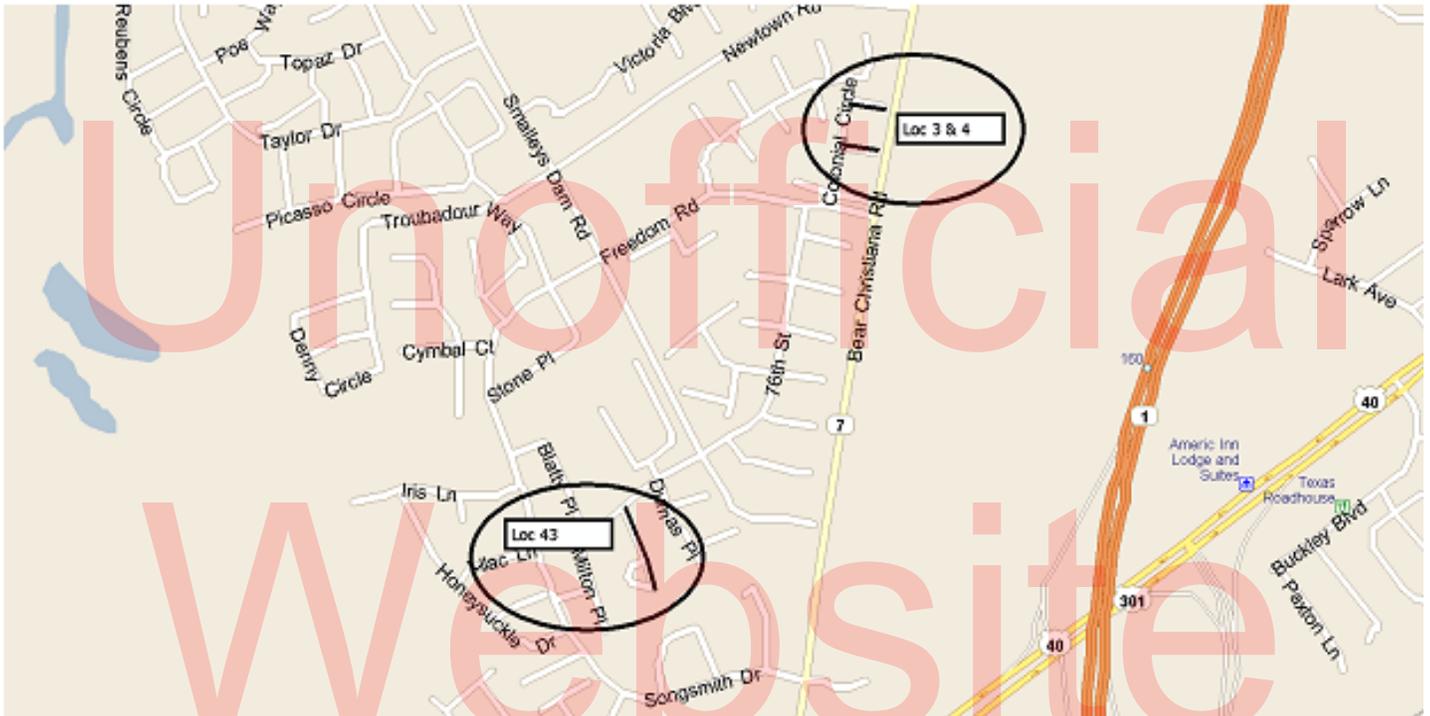
VARIOUS LOCATIONS

LOCATION MAP



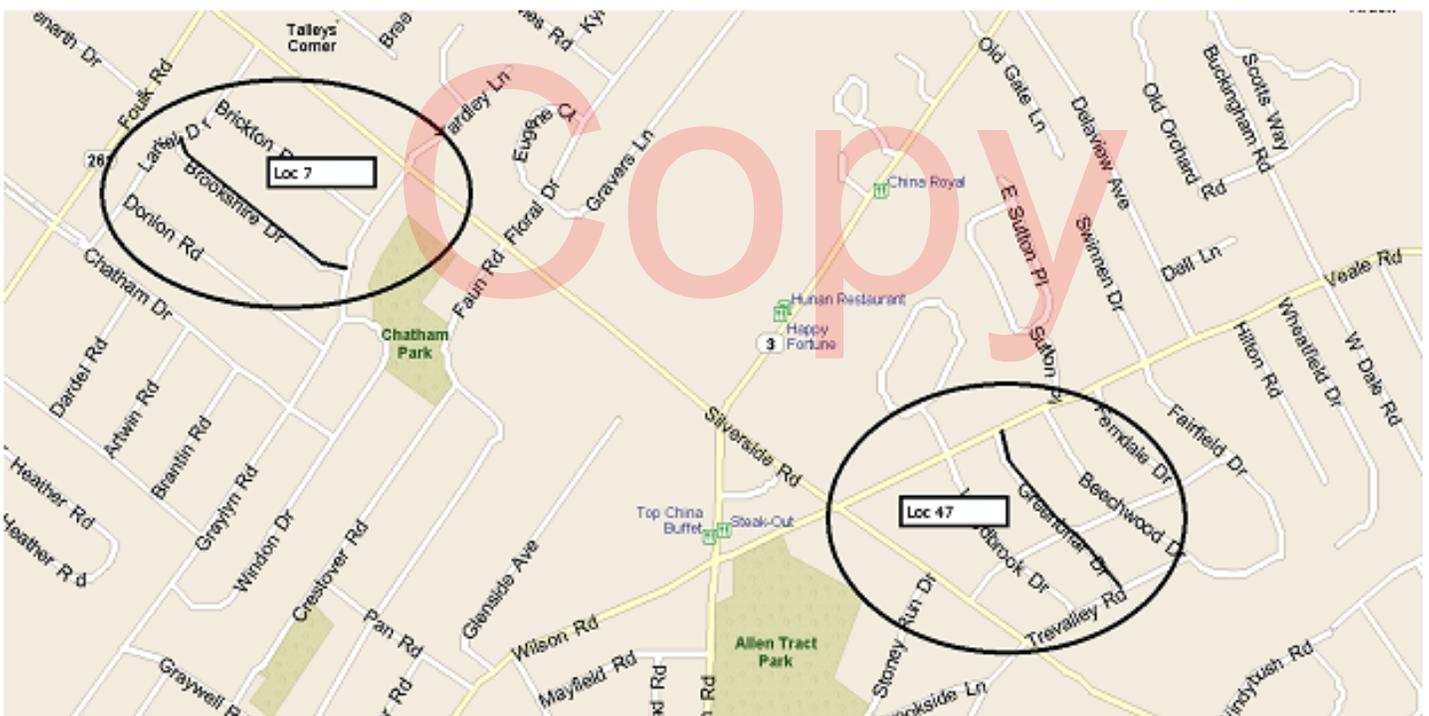
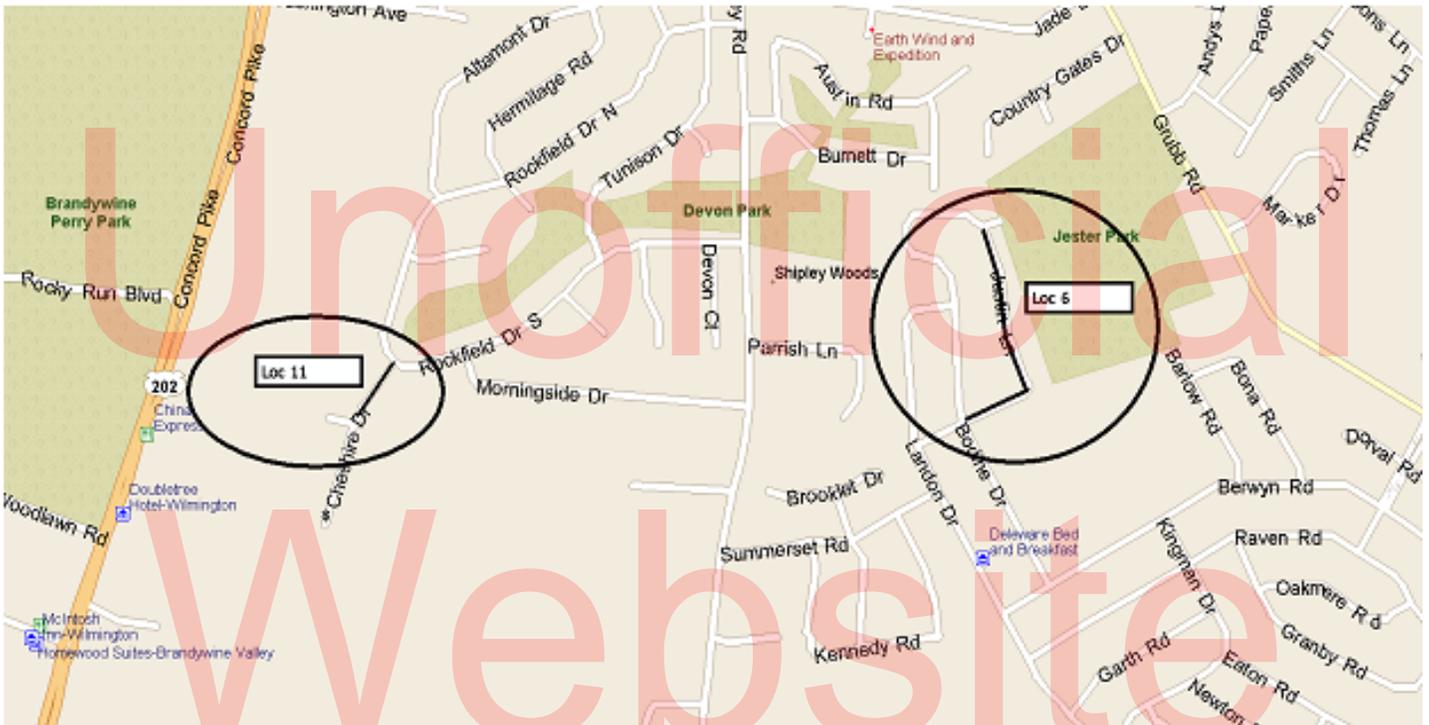
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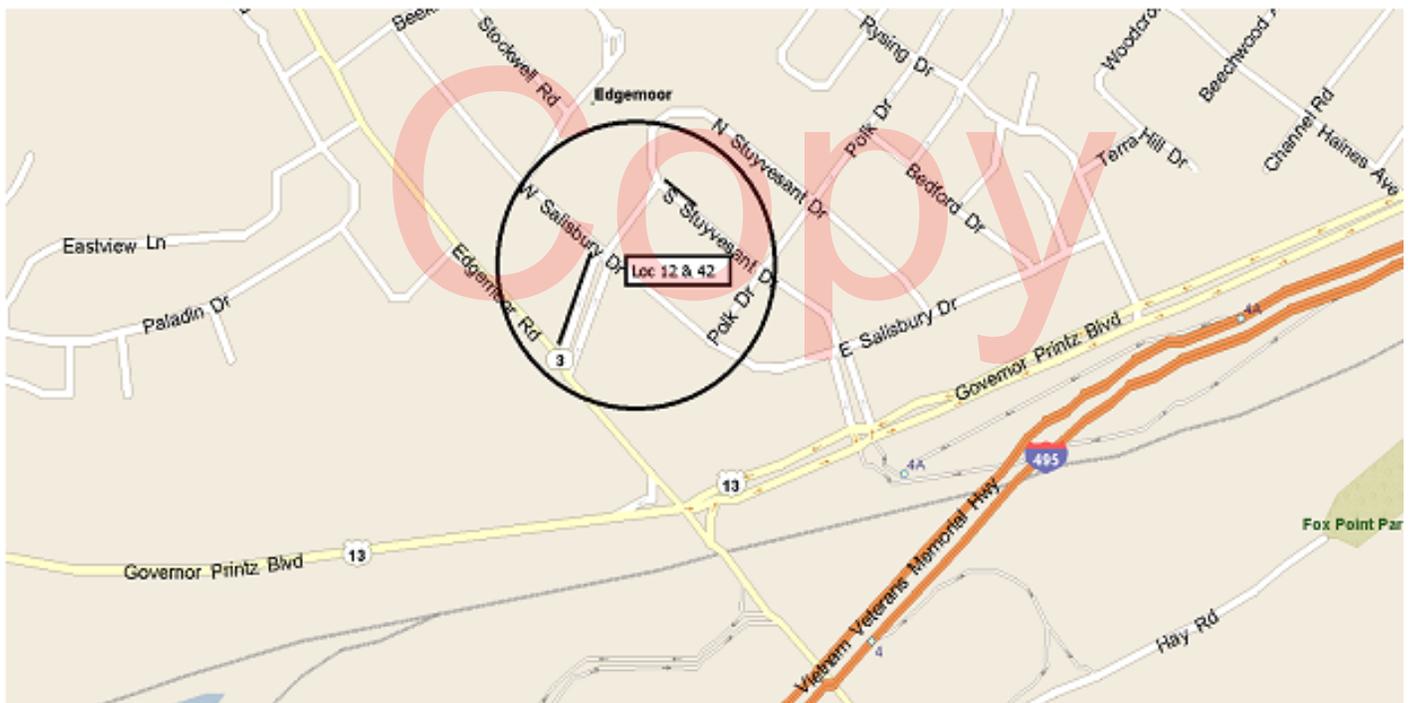
VARIOUS LOCATIONS

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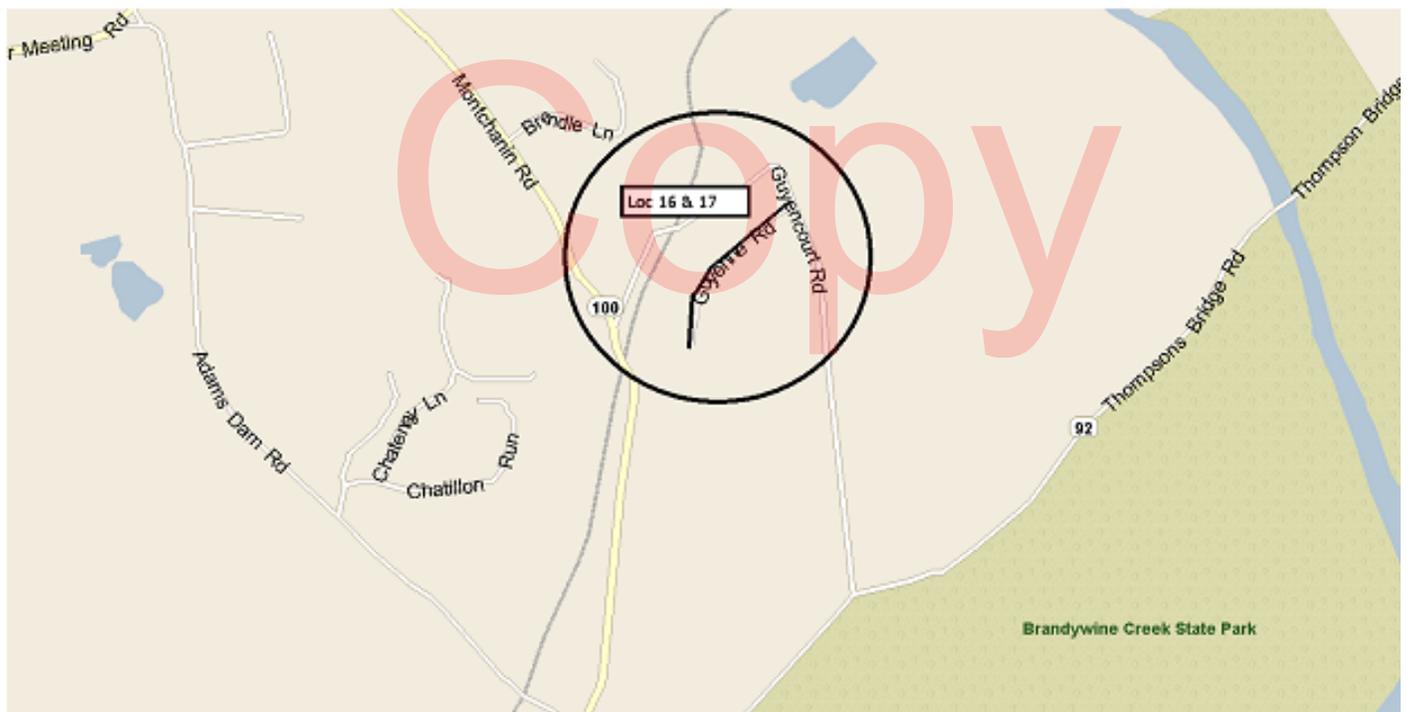
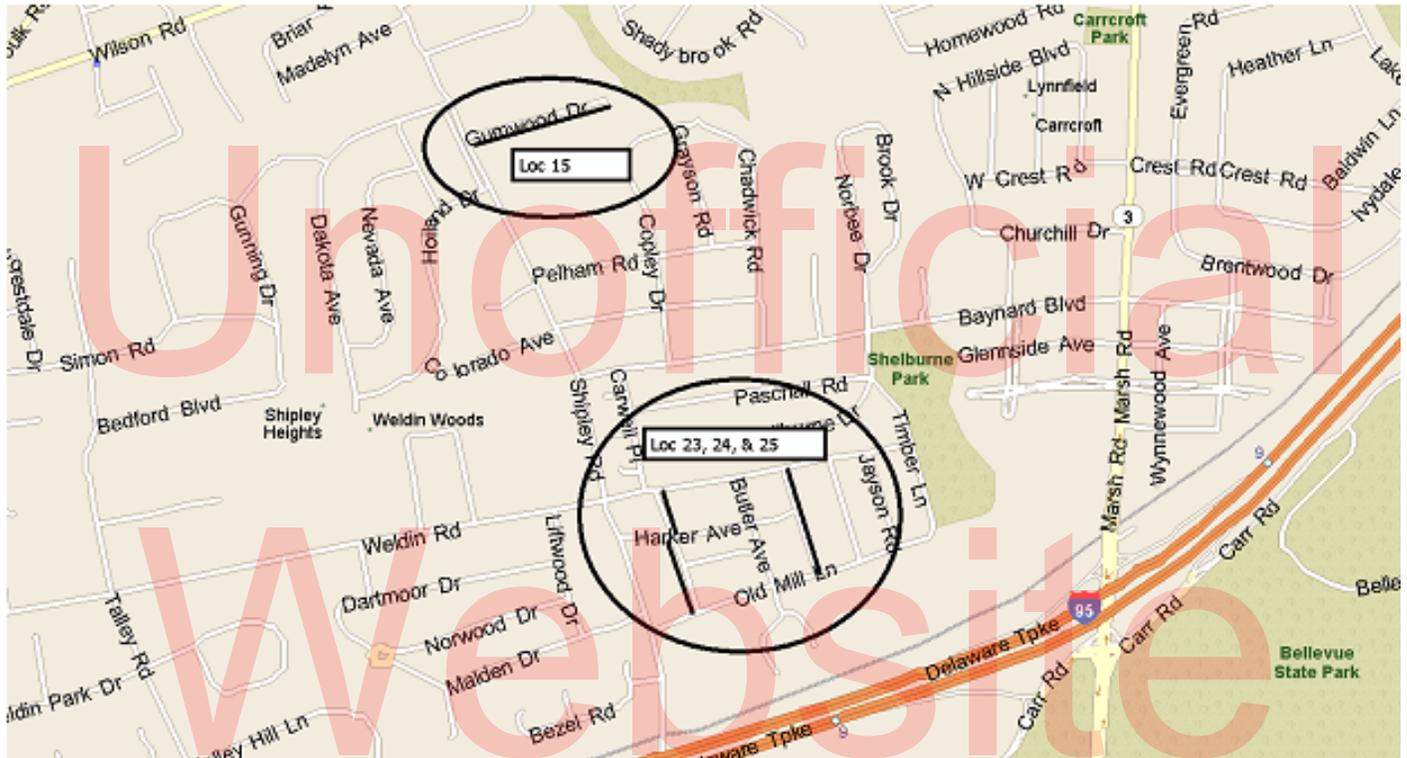
VARIOUS LOCATIONS

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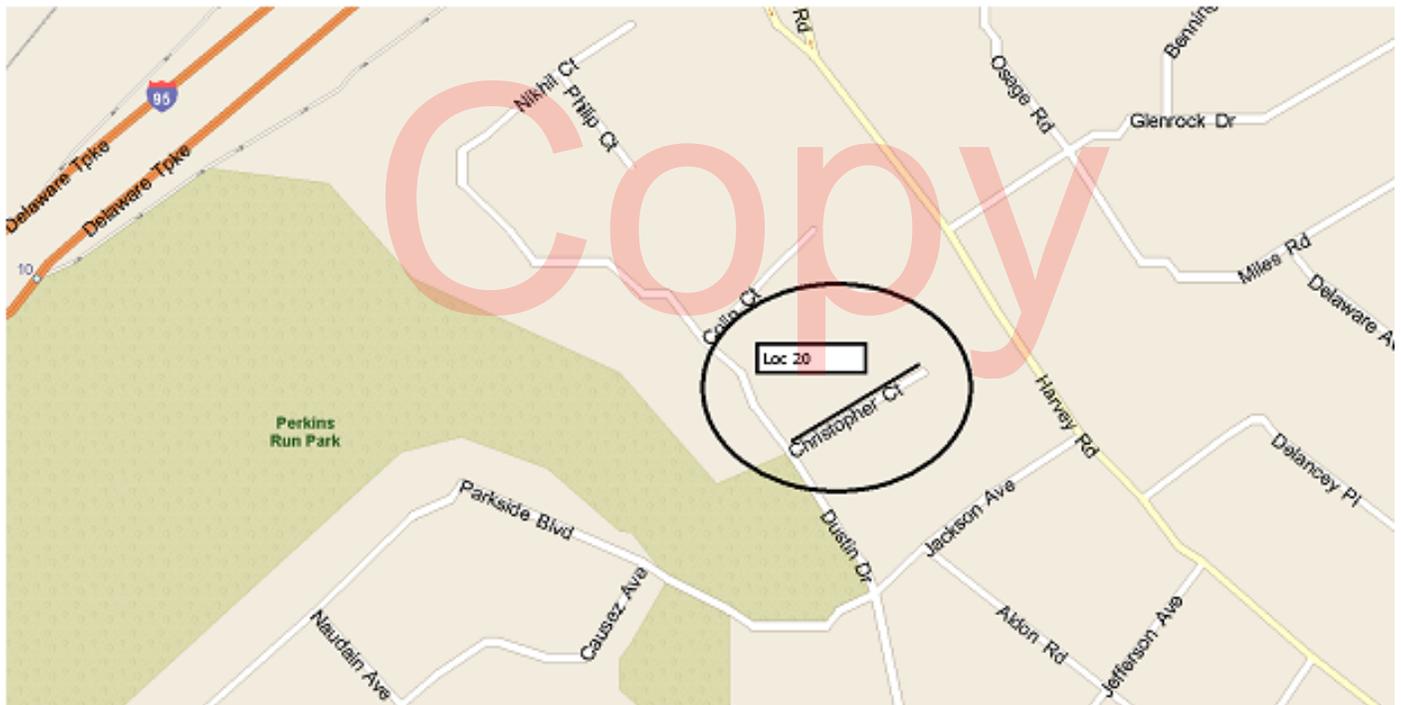
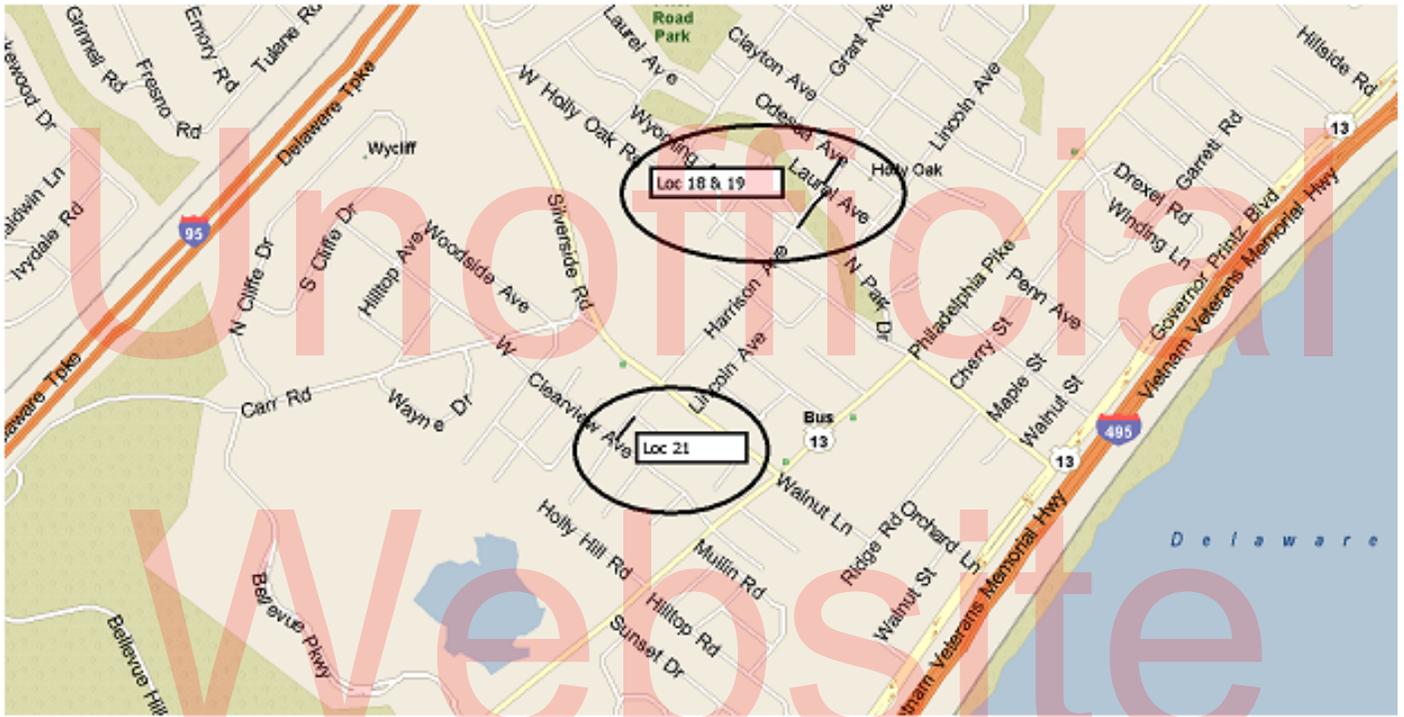
VARIOUS LOCATIONS

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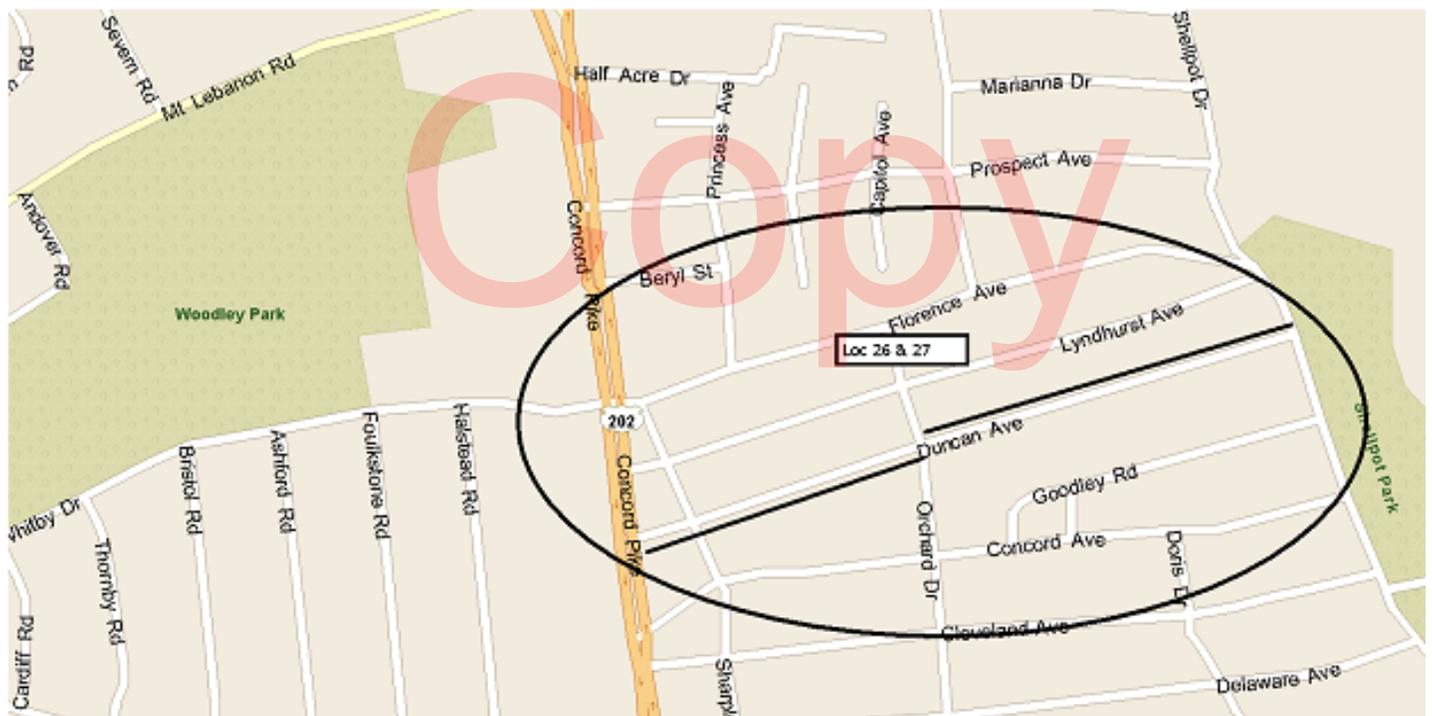
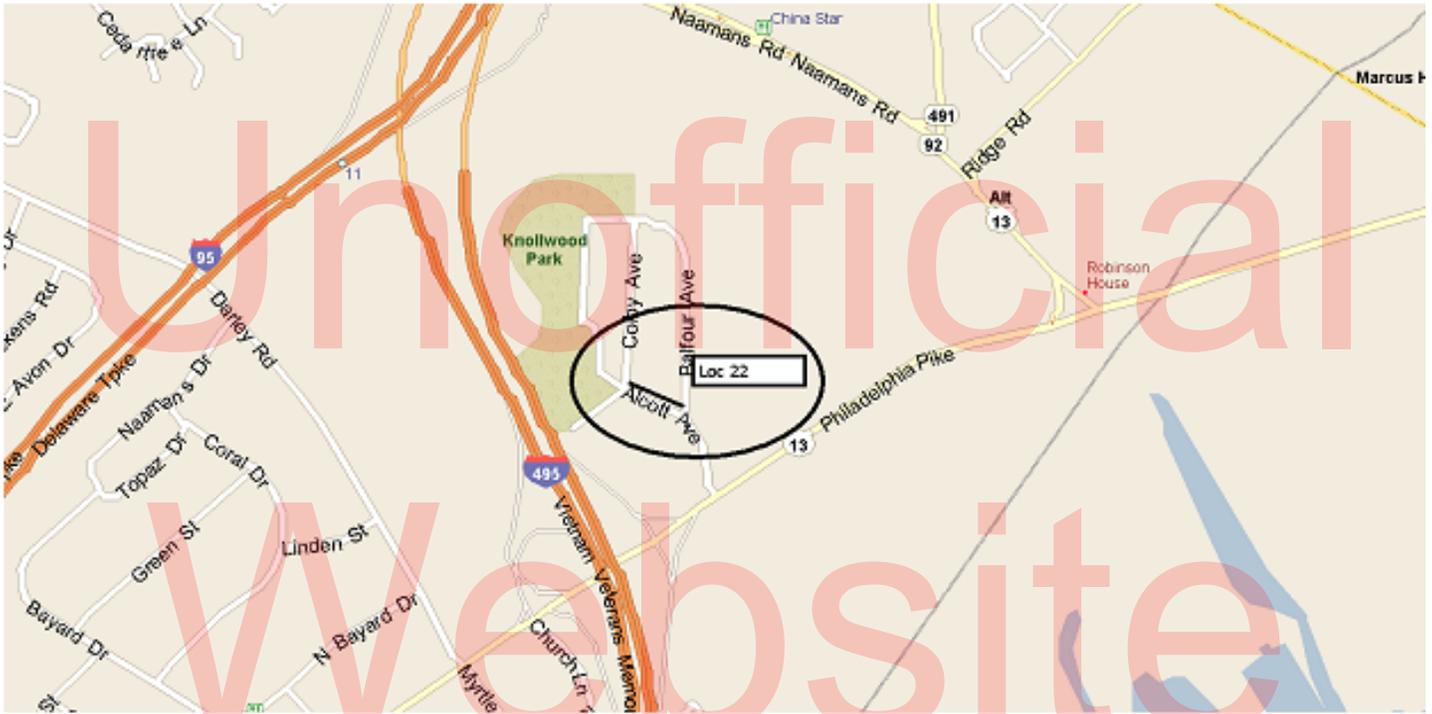
VARIOUS LOCATIONS

LOCATION MAP



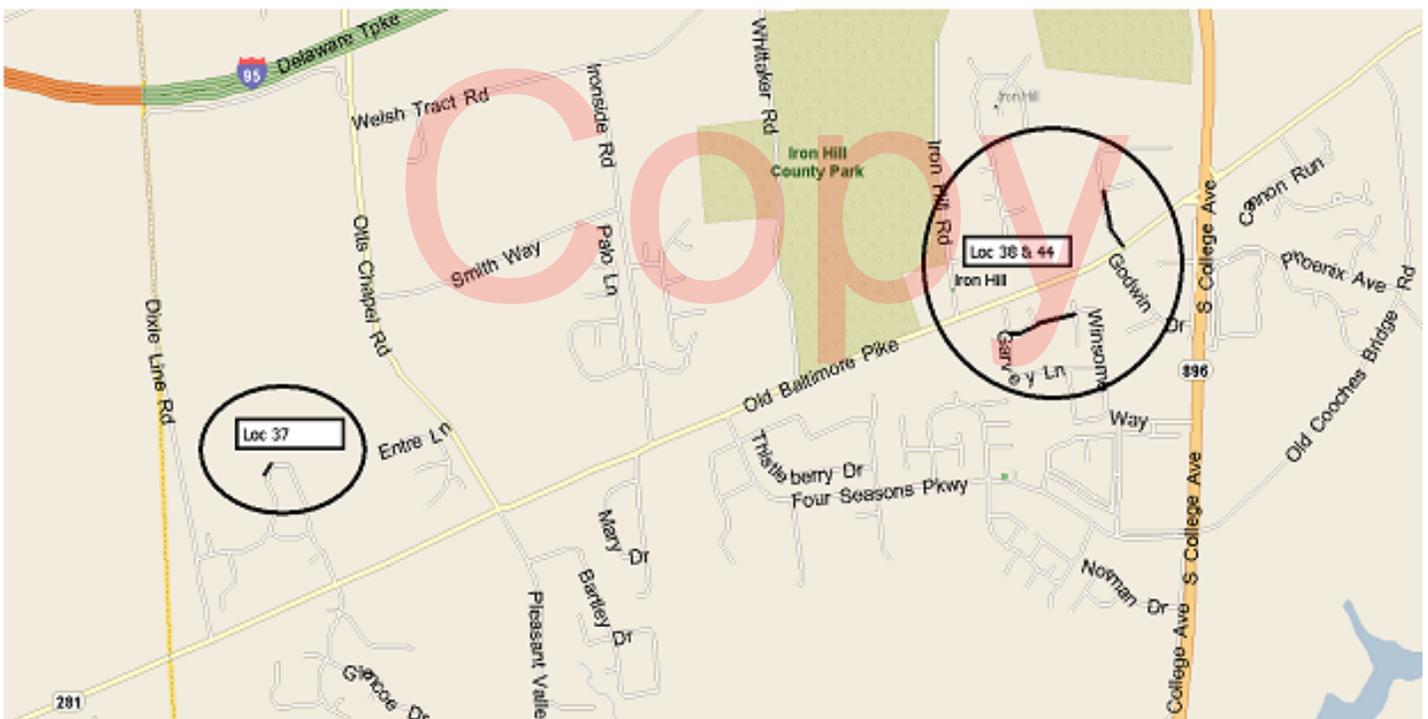
VARIOUS LOCATIONS

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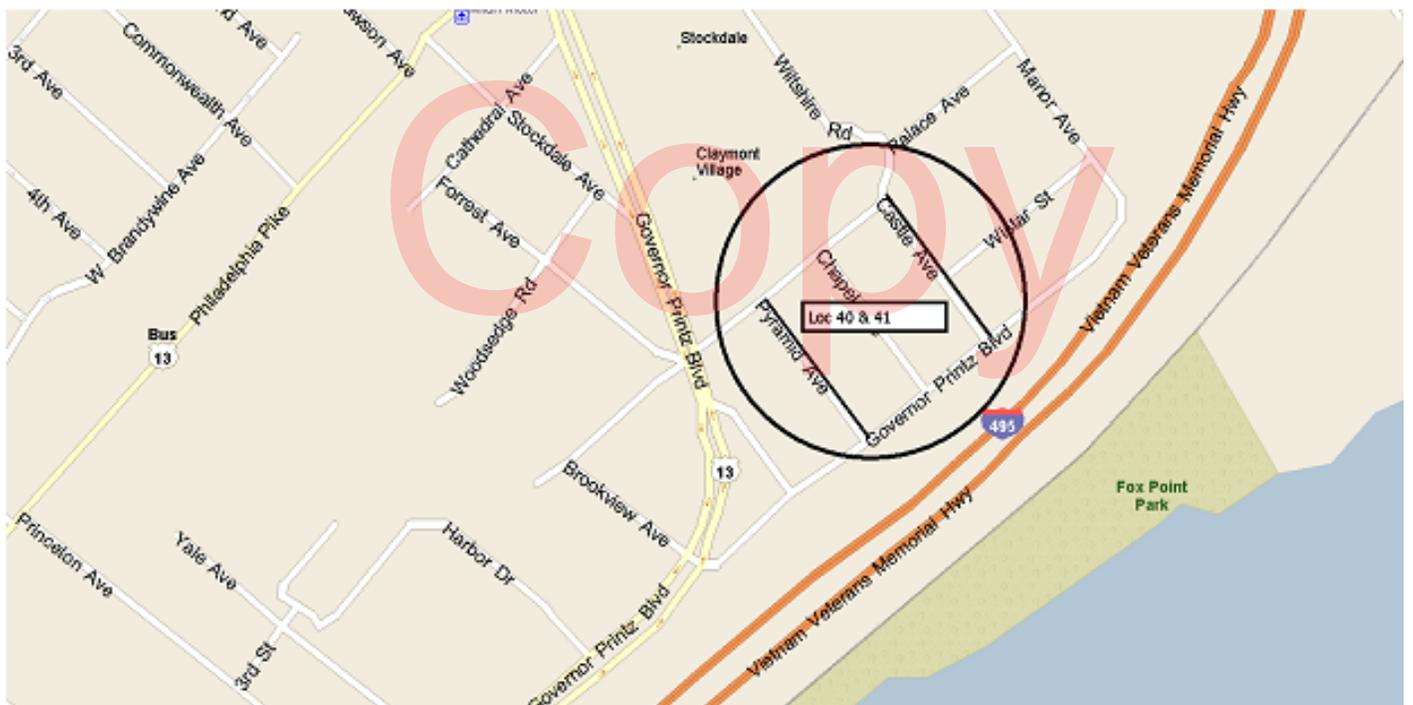
VARIOUS LOCATIONS

LOCATION MAP



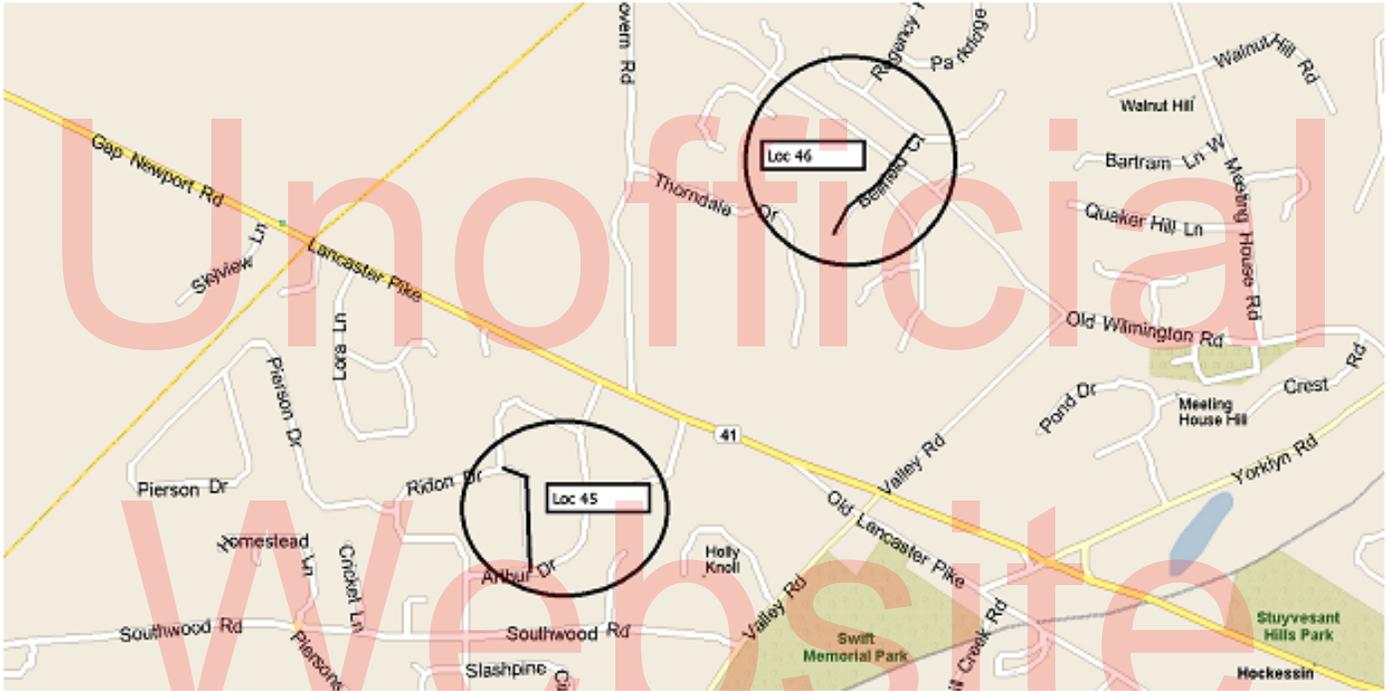
VARIOUS LOCATIONS

LOCATION MAP



VARIOUS LOCATIONS

LOCATION MAP



GENERAL CONTRACT PLAN NOTES

SECTION 100

1. THIS PROJECT IS TO BE CONSTRUCTED IN ACCORDANCE WITH THE DELAWARE DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION DATED AUGUST 2001 AND THE DELAWARE DEPARTMENT OF TRANSPORTATION STANDARD CONSTRUCTION DETAILS, DATED 2001 INCLUDING ALL REVISIONS UP TO THE DATE OF ADVERTISEMENT.

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 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. LOCATION LISTINGS INDICATE GENERAL LIMITS OF CONSTRUCTION, MAJOR TYPES OF IMPROVEMENTS, AND ESTIMATED QUANTITIES. DURING THE BIDDING PERIOD, ANY QUESTIONS PERTAINING TO LOCATIONS SHALL BE DIRECTED TO THE CONTRACT ADMINISTRATOR. AFTER THE AWARD, SUCH QUESTIONS SHALL BE REFERRED TO THE APPROPRIATE DISTRICT ENGINEER OR HIS REPRESENTATIVE.

PROSECUTION AND PROGRESS OF WORK:

4. WORK TO BE PERFORMED UNDER THIS CONTRACT SHALL BE GENERATED THROUGH JOB ORDERS ISSUED TO THE CONTRACTOR BY THE DEPARTMENT'S PROJECT MANAGER. JOB ORDERS WILL BE ASSEMBLED TO ALLOW THE MOST EFFICIENT ALLOCATION OF THE CONTRACTOR'S WORK FORCE AS THE SITUATION ALLOWS.

EACH JOB ORDER ISSUED WILL HAVE CLEAR "START BY" DATE AND TIME ALLOCATED TO COMPLETE SAID JOB ORDER. FAILURE TO COMPLETE A JOB ORDER IN THE SPECIFIED TIME SHALL CONSTITUTE "FAILURE TO PURSE THE WORK" AND SUBJECTS THE CONTRACTOR TO LIQUIDATED DAMAGES AS OUTLINED IN SUBSECTION 108.08 OF THE STANDARD SPECIFICATIONS.

EACH JOB ORDER IS TO BE COMPLETED WITHIN THE SPECIFIED TIME. ADDITIONAL ITEMS AND/OR WORKING DAYS MAY BE ADDED TO ANY JOB ORDER AS NEEDED AT THE DISCRETION OF THE ENGINEER. IF THE WORK ON A SPECIFIED JOB ORDER 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 JOB ORDER.

UPSET LIMIT:

5. DEPENDING ON FUND AVAILABILITY, THE DEPARTMENT RESERVES THE RIGHT TO INCREASE OR DECREASE THE QUANTITIES OF THE ITEMS SPECIFIED IN THIS CONTRACT. SUCH ADDITIONS OR DELETIONS SHALL NOT BE CAUSE FOR AN INCREASE OR DECREASE IN ANY CONTRACT UNIT BID PRICES. THE TOTAL CONTRACT VALUE, WITH ALL ADDITIONAL WORK IF ADDED, SHALL NOT EXCEED 150 PERCENT OF THE ORIGINAL CONTRACT VALUE.

6. UPON RECEIPT OF EACH JOB ORDER, THE CONTRACTOR SHALL SUBMIT THE REQUIRED COPIES OF A

GENERAL CONTRACT PLAN NOTES

DETAILED PROGRESS SCHEDULE (PSC) AS OUTLINED IN STANDARD SPECIFICATION 108.04. 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.

SECTION 400

7. 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 AN 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. UNLESS SPECIFIED, OVERLAY WIDTHS SHALL MATCH EXISTING WIDTHS.

SECTION 700

8. BUTT JOINTS SHALL BE CONSTRUCTED AT ALL INTERSECTING BITUMINOUS CONCRETE ROADS AND ANY OTHER LOCATIONS AS DIRECTED BY THE ENGINEER. BUTT JOINTS AT RAILROAD CROSSINGS AND AT BRIDGE OR DRAINAGE STRUCTURES NOT TO BE RESURFACED SHALL BE AS PER THE INCLUDED PLAN DETAIL. BUTT JOINTS CUT PRIOR TO THE DAY OF PAVEMENT OVERLAY SHALL BE RAMPED WITH BITUMINOUS CONCRETE TRM INCIDENTAL TO THE ITEM 761001 BUTT JOINT. ONLY BITUMINOUS CONCRETE WILL BE ALLOWED FOR THIS PURPOSE. BUTT JOINTS IN FULL MILL AREAS SHALL BE INCIDENTAL TO THE PAVEMENT MILLING ITEM. SAWCUTS FOR BUTT JOINTS SHALL BE INCIDENTAL TO THE BUTT JOINT ITEM. ALL BITUMINOUS CONCRETE TRM SHALL BE REMOVED PRIOR TO THE PAVING OPERATION.

9. MILLED MATERIAL, SHALL BECOME THE PROPERTY OF THE CONTRACTOR.

10. AFTER PAVEMENT MILLING, ALL RAISED EDGES OF MANHOLES, DRAINAGE INLETS, WATER VALVE BOXES, ETC. SHALL BE RAMPED WITH BITUMINOUS CONCRETE TRM AT A 20:1 OR FLATTER SLOPE INCIDENTAL TO PAVEMENT MILLING. PAVEMENT MILLINGS OR COLD PATCH MATERIAL WILL NOT BE ALLOWED FOR THIS PURPOSE. ALL ADJUSTMENTS SHALL BE MADE NOT MORE THAN SEVEN (7) CALENDAR DAYS PRIOR TO THE PLACEMENT OF THE FINAL COURSE OF BITUMINOUS CONCRETE, UNLESS DIRECTED BY THE ENGINEER. FAILURE TO COMPLY WILL RESULT IN A SUSPENSION OF ALL OTHER CONTRACT WORK WITH TIME CHARGES CONTINUING TO BE ASSESSED. ALL BITUMINOUS CONCRETE TRM SHALL BE REMOVED PRIOR TO THE PAVING OPERATIONS. IF THE CONTRACTOR ELECTS TO ADJUST MANHOLES, DRAINAGE INLETS AND WATER VALVES AFTER THE FINAL COURSE OF PAVING, THIS WORK MUST BE COMPLETED WITHIN SEVEN (7) CALENDAR DAYS OF THE FINAL COURSE OF BITUMINOUS CONCRETE. FAILURE TO COMPLY WILL RESULT IN A SUSPENSION OF ALL OTHER CONTRACT WORK WITH TIME CHARGES CONTINUING TO BE ASSESSED

11. PAVING IS TO BE COMPLETED CURB TO CURB INCLUDING TURN LANES AND INTERSECTIONS WITHIN SEVEN (7) CALENDER DAYS OF PAVEMENT MILLING FOR A PARTICULAR DAYS PAVEMENT MILLING LOCATION. THIS RESTRICTION APPLIES TO EACH DAYS PAVEMENT MILLING OPERATION, NOT AN ENTIRE PROJECT LOCATION.

GENERAL CONTRACT PLAN NOTES

FAILURE TO COMPLY WILL RESULT IN A SUSPENSION OF ALL OTHER CONTRACT WORK WITH TIME CHARGES CONTINUING TO BE ASSESSED.

12. THE CONTRACTOR SHALL TAKE CARE IN REMOVING PAVEMENT AROUND UTILITIES, BUTT JOINTS, CURB EDGES, ETC., WHEN CLEANING AFTER A PAVEMENT MILLING OPERATION. CARE SHOULD BE TAKEN SO AS NOT TO GOUGE OR DIG DEEPER THAN THE REQUIRED DEPTH. FAILURE TO DO SO WILL RESULT IN THE CONTRACTOR PLACING LEVELING COURSES AT HIS OWN EXPENSE.

13. THE BASIS OF MEASUREMENT AND PAYMENT FOR ITEM 760006 - PAVEMENT MILLING, 2" (50 mm) DEPTH, SHALL INCLUDE AN AVERAGE OF THE MILLED DEPTH PER LOCATION FROM 1" (25 mm) TO 2.25" (56 mm) (INCLUSIVE) FOR MEASUREMENT AND PAYMENT PURPOSES. PAYMENT FOR PAVEMENT MILLING DEPTHS WHOSE AVERAGE IS GREATER THAN 2.25" (56 mm) SHALL BE NEGOTIATED BY THE ENGINEER.

14. DRAINAGE INLET GRATES ADJACENT TO THE ROAD, WITHIN THE PROJECT LIMITS, WHICH ARE NOT TYPE 1 SHALL BE REPLACED. THE ACTUAL LOCATIONS, THE NEED FOR ANY GRATE MODIFICATIONS OR FOR NEW FRAMES SHALL BE DETERMINED BY THE ENGINEER. ALL REPLACED GRATES/ FRAMES SHALL BE DELIVERED TO THE NEAREST DISTRICT MAINTENANCE YARD WITH THE COST OF DELIVERY INCIDENTAL TO 708060/708061 REPLACING CATCH BASIN GRATES/FRAMES. FINAL PAYMENT FOR REPLACED GRATES/ FRAMES SHALL NOT BE MADE UNTIL RECEIPT OF DELIVERED MATERIALS IS PRODUCED, SIGNED BY A DELDOT MAINTENANCE YARD SUPERVISOR.

15. EXCAVATION FOR THE REPLACEMENT OF P.C.C. CURBS, SIDEWALK OR VALLEY GUTTER SHALL BE INCIDENTAL TO THE PRICE BID FOR THESE RESPECTIVE ITEMS. EXCAVATED MATERIAL, NOT NEEDED ON THE PROJECT, SHALL BECOME THE PROPERTY OF THE CONTRACTOR AND REMOVED FROM THE PROJECT. IN THE CASE OF NEW SIDEWALK EXCAVATION WILL BE PAID TO THE WIDTH OF THE NEW SIDEWALK UNDER ITEM 202000. ITEM 732004, TOPSOIL, SHALL BE USED AS BACKFILL MATERIAL FOR CURB AND SIDEWALK WHEN SO DIRECTED BY THE ENGINEER. 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 AND PARGING OF DRAINAGE INLETS, SHALL BE COMPLETED WITHIN SEVEN (7) CALENDER DAYS. FAILURE TO COMPLY WILL RESULT IN A SUSPENSION OF ALL OTHER CONTRACT WORK WITH TIME CHARGES CONTINUING TO BE ASSESSED. TOPSOIL SHALL BE SCREENED/SIFTED SO AS NO MATERIAL GREATER THAN .5" SHOULD BE PRESENT IN MATERIAL USED FOR BACKFILL.

16. AS DIRECTED BY THE ENGINEER, THE CONTRACTOR SHALL PARTIALLY SAW AND FILL WITH AN APPROVED SEALER EXISTING CRACKED CURB AND/OR SIDEWALK. THIS WORK WILL BE INCIDENTAL TO ITEM #762002 SAWCUT - CONCRETE FULL DEPTH.

17. PERTAINING TO PCC CURB REMOVAL & PATCHING, SAWCUTTING IS TO BE PERFORMED PRIOR TO THE REMOVAL OF BITUMINOUS CONCRETE UNLESS APPROVAL IS GIVEN BY THE ENGINEERS REPRESENTATIVE.

18. AT EACH LOCATION, THE CONTRACTOR SHALL NOTE ALL EXISTING PAVEMENT MARKINGS AND SUBMIT A DRAWING WHICH DEPICTS THE STRIPING PATTERN TO THE DEPARTMENT PRIOR TO THE START OF ANY WORK AT THE LOCATION.

THE CONTRACTOR WILL BE RESPONSIBLE TO CORRECT ANY ERRONEOUS MARKINGS IMMEDIATELY. FAILURE TO COMPLY WILL RESULT IN SUSPENSION OF ALL OTHER CONTRACT WORK WITH TIME CHARGES CONTINUING TO BE ASSESSED. FINAL PAVEMENT MARKINGS SHALL CONFORM TO ALL EXISTING PATTERNS AND SHALL BE PLACED WITHIN FIVE (5) CALENDER DAYS (MAXIMUM) AFTER PLACEMENT OF THE FINAL COURSE OF

GENERAL CONTRACT PLAN NOTES

BITUMINOUS CONCRETE. IF THE CONTRACTOR FAILS TO DOCUMENT THE EXISTING PAVEMENT MARKINGS IN AN ACCEPTABLE MANNER, HE SHALL BE REQUIRED TO PROVIDE AT HIS OWN EXPENSE, A NEW PAVEMENT MARKING PLAN SIGNED AND SEALED BY A PROFESSIONAL ENGINEER REGISTERED IN THE STATE OF DELAWARE.

AT THE END OF EACH DAYS OPERATION AND BEFORE TRAFFIC IS RETURNED TO UNRESTRICTED ROADWAY USE, TEMPORARY MARKINGS SHALL BE UTILIZED AT LOCATIONS THAT REQUIRE PERMANENT MARKING.

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.

PLACEMENT OF TEMPORARY MARKINGS SHALL RECEIVE PRIOR APPROVAL FROM THE ENGINEER. PAYMENT FOR TEMPORARY PAVEMENT MARKING SHALL BE MADE AT THE UNIT PRICE BID FOR ITEM 748019 - TEMPORARY MARKINGS, FOR CONDITIONS A ,B & C LISTED ABOVE.

19. THE CONTRACTOR, WITH THE ENGINEER, SHALL INVENTORY ALL SIGNS ON ALL ROADS SUBJECT TO IMPROVEMENTS. NECESSARY SIGNS SHALL BE MAINTAINED IN OPERATION DURING CONSTRUCTION AND ANY OTHER SIGNS SHALL BE PROPERLY STORED WITH THE CONTRACTOR, WHO SHALL BE RESPONSIBLE FOR LOSS OR DAMAGE. IMMEDIATELY PRIOR TO FINAL INSPECTION, THE CONTRACTOR AND ENGINEER SHALL AGAIN INVENTORY THE TRAFFIC SIGNS AND ACCOUNT FOR ANY LOST OR DAMAGED SIGNS. LOST OR DAMAGED SIGNS, AT THE DISCRETION OF THE ENGINEER SHALL BE REPLACED IN KIND AT THE CONTRACTORS EXPENSE.

20. THE CONTRACTOR SHALL PROVIDE RESIDENTS WITH 24 HR. PRIOR WRITTEN NOTICE FOR ALL PHASES OF CONTRACT WORK INCLUDING BUT NOT LIMITED TO: SAWCUTTING FOR P.C.C. OPERATIONS, P.C.C. REMOVAL AND REPLACEMENT, PAVEMENT MILLING, AND PAVING. THIS NOTICE SHALL BE GIVEN TO ALL RESIDENTS WHOSE PROPERTY IS ADJACENT TO THE STREET ON WHICH WORK IS TO BE PERFORMED. FAILURE TO GIVE PROPER NOTICE WILL RESULT IN A SUSPENSION OF WORK REQUIRING NOTICE, UNTIL PROPER NOTICE IS PROVIDED.

21. BEFORE THE START OF A DAYS PAVEMENT MILLING OR PAVING OPERATIONS AND WHERE THERE IS EXISTING STRIPING, THE CONTRACTOR SHALL BE REQUIRED TO PROVIDE PROOF THAT ENOUGH MATERIAL OF AN APPROVED ALTERNATIVE STRIPING METHOD IS ON HAND AT THE SITE TO ENSURE STRIPING IS COMPLETE BEFORE TRAFFIC IS RETURNED TO THE ROADWAY.

22. LANE CLOSURES ON NUMBERED MAINTENANCE ROADS ARE PERMITTED ONLY BETWEEN THE HOURS OF 9:00 AM AND 3:00 PM.

23. BEFORE WORK IS DONE AT ANY LOCATION, THE APPROPRIATE DISTRICT SAFETY OFFICER MUST APPROVE THE MOT FOR THAT LOCATION TWO WEEKS IN ADVANCE. ANY ANTICIPATED IMPACT TO TRAFFIC SIGNALS MUST BE REVIEWED BY THE DELDOT TRAFFIC SECTION PRIOR TO CONSTRUCTION. THEY CAN BE CONTACTED AT 302-659-4060.

GENERAL CONTRACT PLAN NOTES

24. 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.

25. Revise to read, "THE CONTRACTOR SHALL SUBMIT A TRAFFIC CONTROL PLAN, INCLUDING PEDESTRIAN AND BICYCLE FACILITIES, AS WELL AS THE NECESSARY NCHRP 350 OR THE MANUAL FOR ASSESSING SAFETY HARDWARE (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.

26. ALL TRAFFIC CONTROL DEVICES SHALL BE IN NEW OR REFURBISHED CONDITION AND SHALL BE IN COMPLIANCE WITH THE NCHRP 350 OR THE MANUAL FOR ASSESSING SAFETY HARDWARE(MASH) . THE DEVICES SHALL BE APPROVED BY THE SAFETY SECTION PRIOR TO USE AND SHALL BE MAINTAINED IN GOOD CONDITION FOR THE DURATION OF THE CONTRACT.

27. 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.

28. 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.
- 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.

GENERAL CONTRACT PLAN NOTES

SECTION 900

29. EROSION CONTROL MULCH BLANKET SHALL BE USED IN ALL DISTURBED AREAS UNLESS DIRECTED OTHERWISE BY THE ENGINEER.

OPEN END SPECIFIC PROJECT NOTES

30. NO UTILITY RELOCATION INVOLVEMENT IS ANTICIPATED. SHOULD ANY CONFLICTS BE ENCOUNTERED DURING CONSTRUCTION REQUIRING ADJUSTMENT AND/OR RELOCATION OF THE AGENCIES' EXISTING FACILITIES, THE NECESSARY RELOCATION WORK SHALL BE ACCOMPLISHED BY THE RESPECTIVE AGENCIES' FORCES, AS DIRECTED BY THE DISTRICT ENGINEER. ANY ADJUSTMENTS AND/OR RELOCATIONS OF MUNICIPALLY OWNED FACILITIES SHALL BE DONE BY THE STATE'S CONTRACTOR IN ACCORDANCE WITH THE RESPECTIVE AGENCIES' STANDARD SPECIFICATIONS AS DIRECTED BY THE DISTRICT ENGINEER.

31. NO ENVIRONMENTAL PERMITS ARE REQUIRED FOR THIS WORK PROVIDED NO JURISDICTIONAL WETLANDS OR WATERS ARE IMPACTED. IF THERE IS ANY QUESTION AS TO WHETHER OR NOT A WATER OR WETLAND IS JURISDICTIONAL, CONTACT THE DEL DOT ENVIRONMENTAL SECTION AT 302-760-2264.

32. 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.

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

34. THE PROJECT MANAGER SHALL BE RESPONSIBLE FOR COORDINATING WITH THE TRAFFIC SECTION RELATING TO ANY IMPACTS TO TRAFFIC SECTION FACILITIES (INCLUDING BUT NOT LIMITED TO TRAFFIC LOOPS, JUNCTION WELLS ETC.) AT LEAST 4 WEEKS IN ADVANCE OF THE START OF THE ACTIVITY. PRIOR TO INITIATING ANY WORK ON THIS CONTRACT (OR SITES), THE PROJECT MANAGER SHALL BE RESPONSIBLE FOR PREPARING AND SUBMITTING FOR APPROVAL OF THE SAFETY SECTION, A MAINTENANCE OF TRAFFIC PLAN. SUFFICIENT TIME SHALL BE PROVIDED FOR THE REVIEW AND APPROVAL OF THE PLAN. THE MAINTENANCE OF TRAFFIC PLAN SHALL INCLUDE PROPOSED TIME RESTRICTIONS ON THE CLOSURE OF TRAVEL LANES SUBJECT TO THE APPROVAL OF THE SAFETY SECTION.

35. THE PROJECT MANAGER IS RESPONSIBLE FOR ENSURING ANY REQUIRED

GENERAL CONTRACT PLAN NOTES

DOCUMENTS AND ANALYSIS AS PART OF THE ADOPTED WORK ZONE SAFETY AND MOBILITY PROCEDURES AND GUIDELINES HAS BEEN COMPLETED PRIOR TO ANY WORK STARTING ON THIS CONTRACT.

36. THE DEPARTMENT RESERVES THE RIGHT TO REQUEST AN EXTENSION OF THIS CONTRACT, WITH THE AGREEMENT OF THE CONTRACTOR, AT THE CURRENT CONTRACT PRICES.

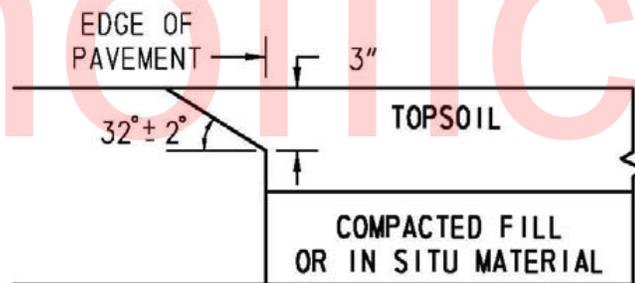
37. THE WORK WILL BE SCHEDULED VIA JOB ORDERS FROM THE DISTRICT. WORK SITES WILL VARY IN SIZE. THE JOB ORDERS WILL INDICATE THE WORK TO BE PERFORMED AT EACH LOCATION.

38. THIS CONTRACT IS NOT SUBJECT TO DEPARTMENT OF LABOR'S PREVAILING WAGE RATES PER THE DELAWARE CODE, 29 Del. C. § 6960(m).

2/23/2016

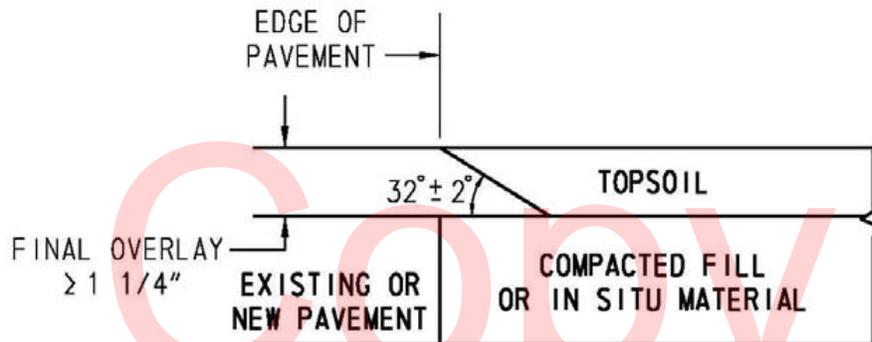
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DETAILS SHEET



CONCRETE PAVEMENTS

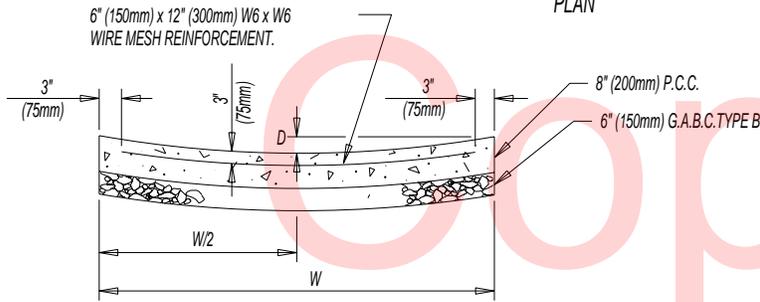
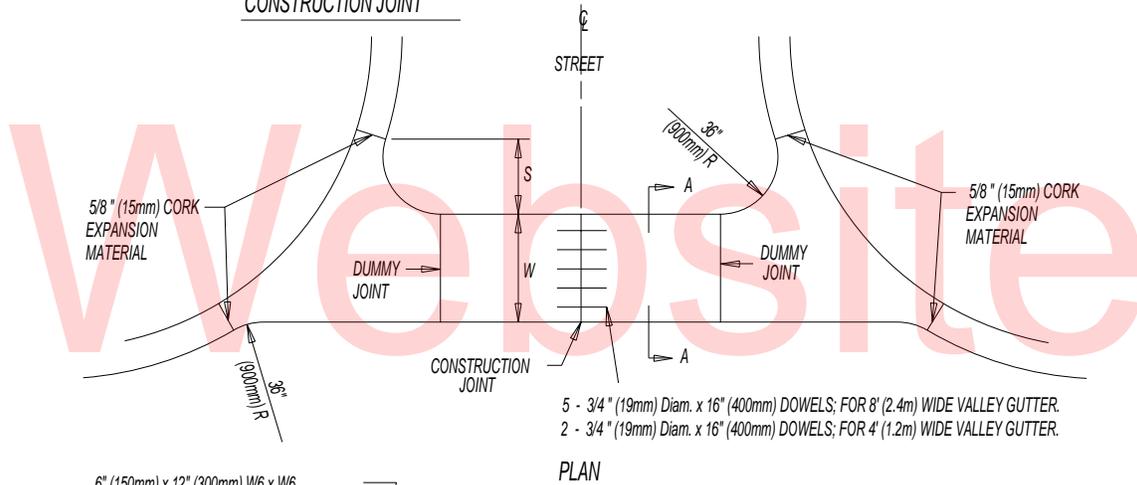
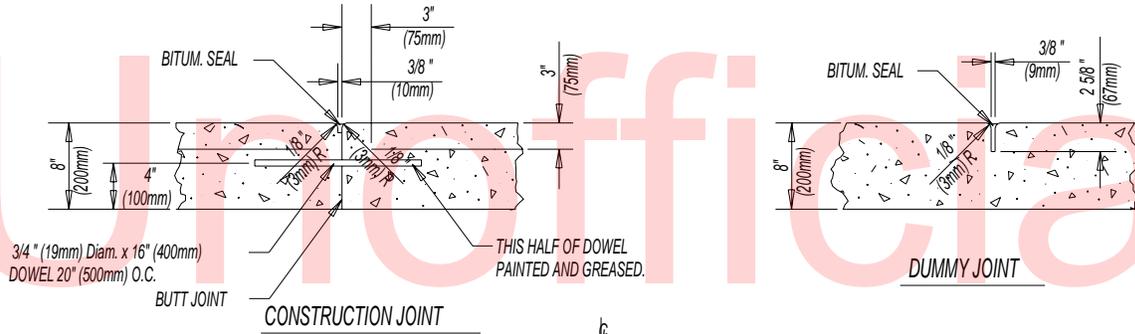
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BITUMINOUS CONCRETE PAVEMENTS AND OVERLAYS

N. T. S.

DETAILS SHEET

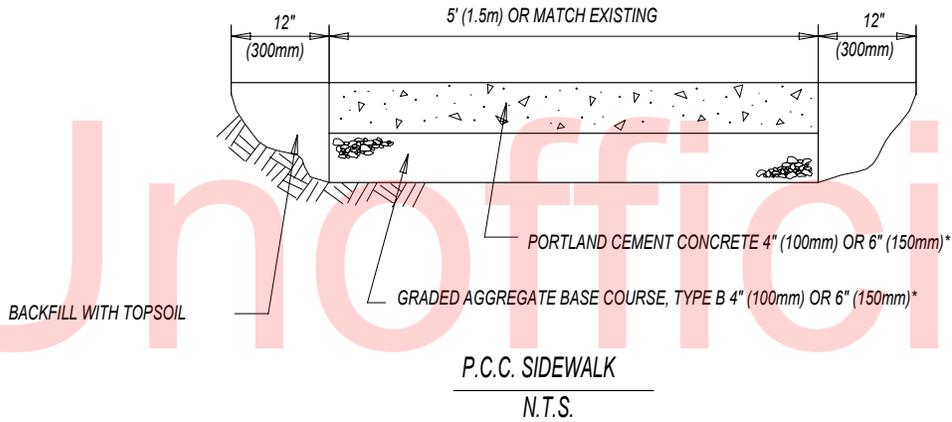


P.C.C. VALLEY GUTTER
N.T.S.

WIDTH W	DEPTH D	OFFSET S
8' (2.4m)	3" (75mm)	16" (405mm)
4' (1.2m)	1 1/2" (38mm)	23 1/2" (585mm)

NOTE: EXCAVATION FOR AREA IN FRONT OF CURB WILL BE INCIDENTAL TO ITEM 701004.

DETAILS SHEET

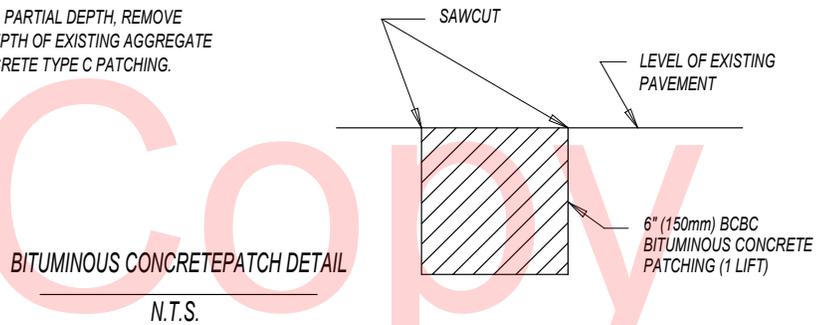


* NOTE: 6" (150mm) CONCRETE OVER 6" (150mm) GRADED AGGREGATE TO BE USED FOR DRIVEWAY PLACEMENT

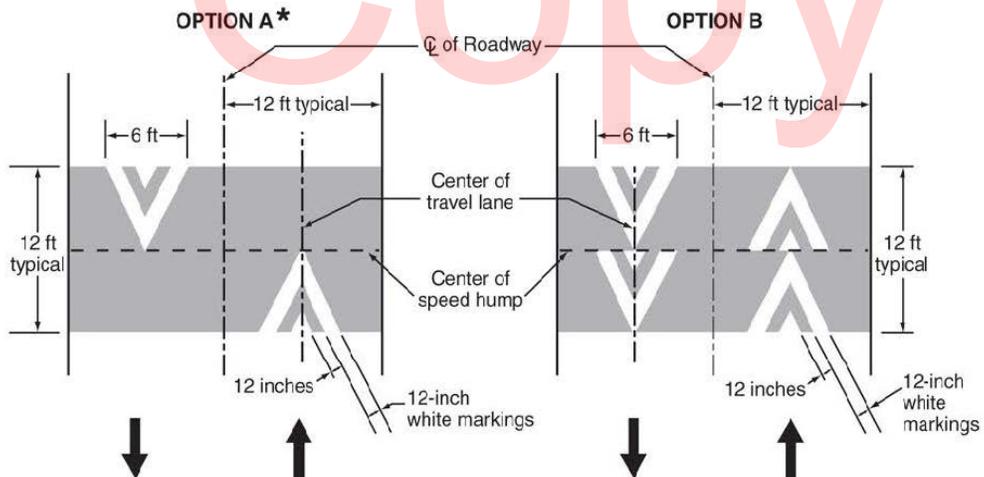
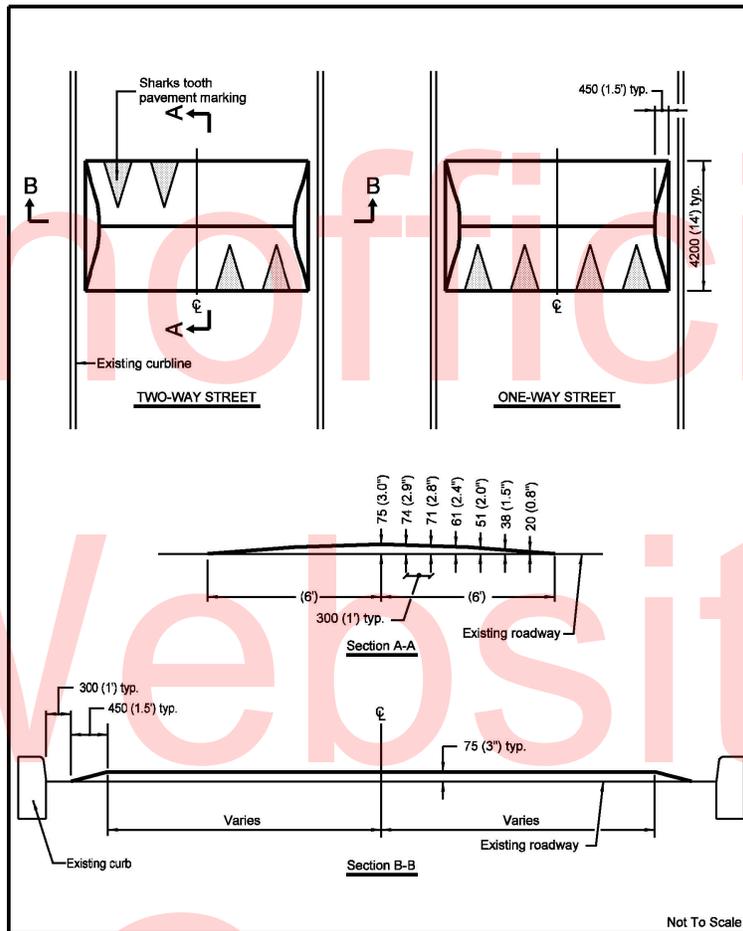
NOTE: ALL EDGES TO BE SAWCUT. CUTTING BY USE OF AIR HAMMERS MAY BE SUBSTITUTED FOR SAWCUTTING IF THE AREA IS TO BE OVERLAID UNDER THE SAME CONTRACT. THIS DETAIL SHALL BE USED FOR ALL BITUMINOUS CONCRETE PATCHES UNLESS OTHERWISE SHOWN ON THE PLANS.

IN AREAS WHERE NO BITUMINOUS CONCRETE OVERLAY IS PROPOSED, PLACE 2" (50mm) BITUMINOUS CONCRETE TYPE C PATCHING OVER 6" (150mm) BCBC BITUMINOUS CONCRETE PATCHING.

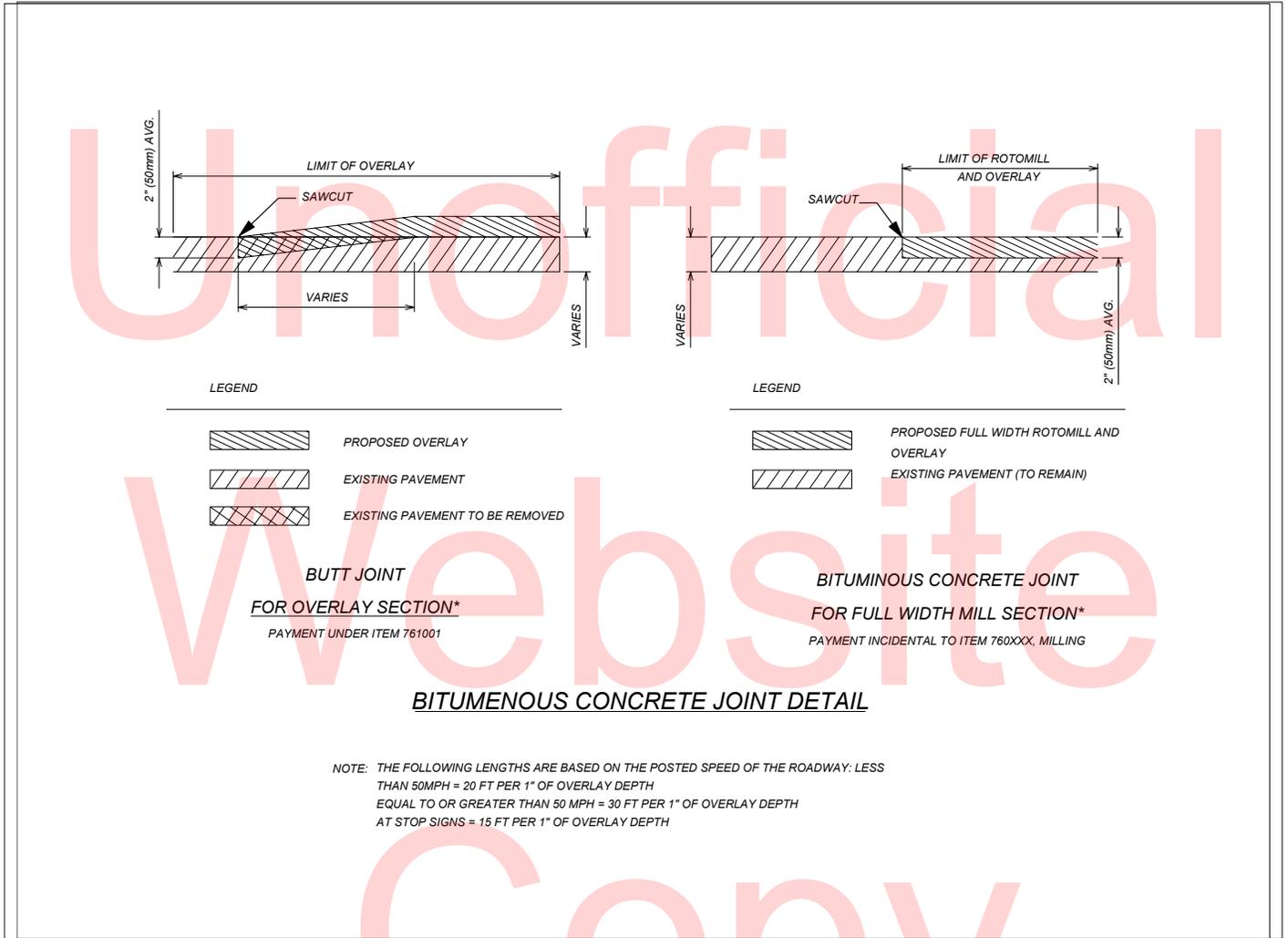
FOR BITUMINOUS CONCRETE PATCHING, PARTIAL DEPTH, REMOVE EXISTING BITUMINOUS CONCRETE TO DEPTH OF EXISTING AGGREGATE BASE. REPLACE WITH BITUMINOUS CONCRETE TYPE C PATCHING.



DETAILS SHEET

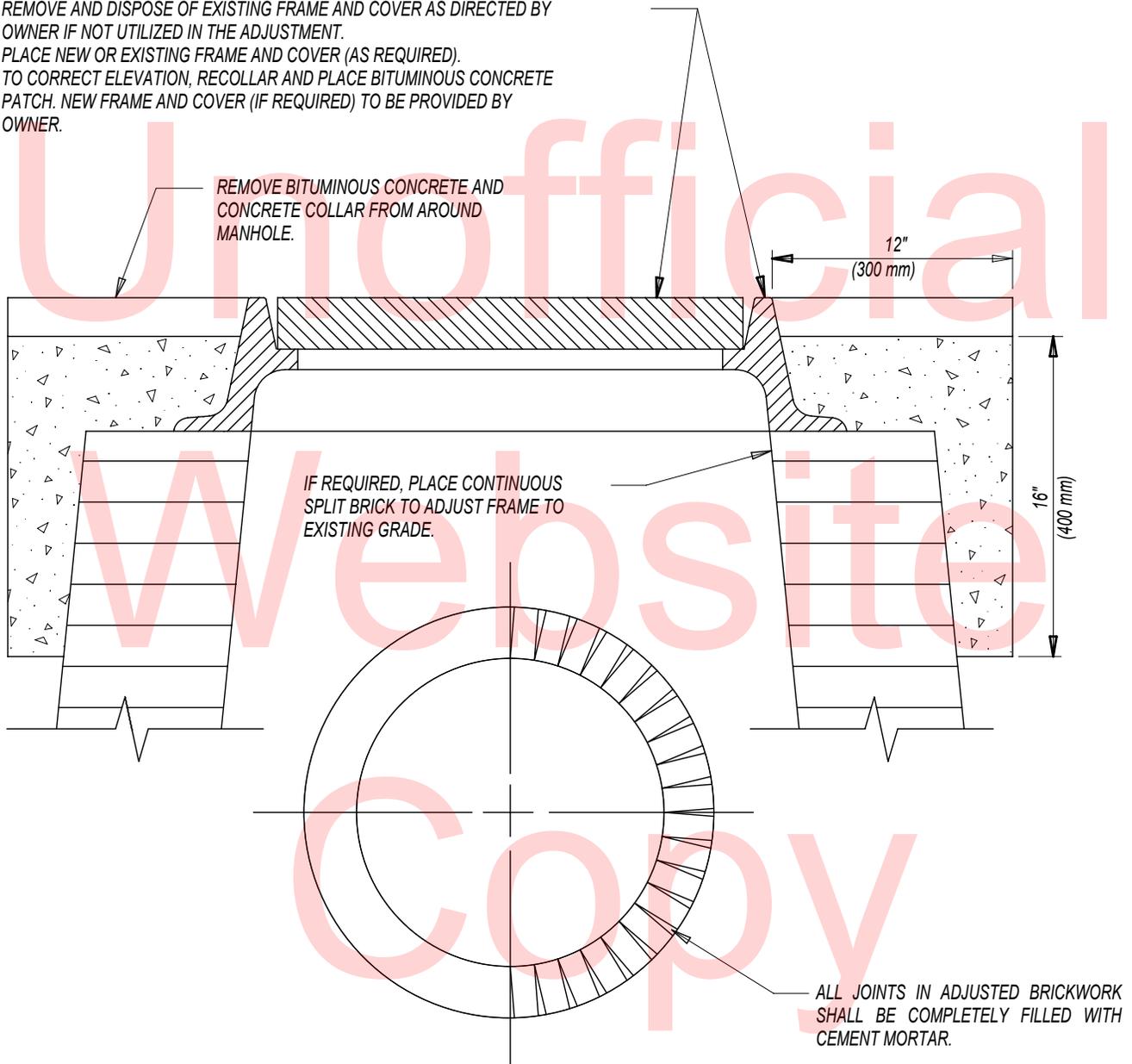


DETAILS SHEET



DETAILS SHEET

REMOVE AND DISPOSE OF EXISTING FRAME AND COVER AS DIRECTED BY OWNER IF NOT UTILIZED IN THE ADJUSTMENT.
PLACE NEW OR EXISTING FRAME AND COVER (AS REQUIRED).
TO CORRECT ELEVATION, RECOLLAR AND PLACE BITUMINOUS CONCRETE PATCH. NEW FRAME AND COVER (IF REQUIRED) TO BE PROVIDED BY OWNER.



ADJUSTING AND REPAIRING MANHOLE

N.T.S.

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.

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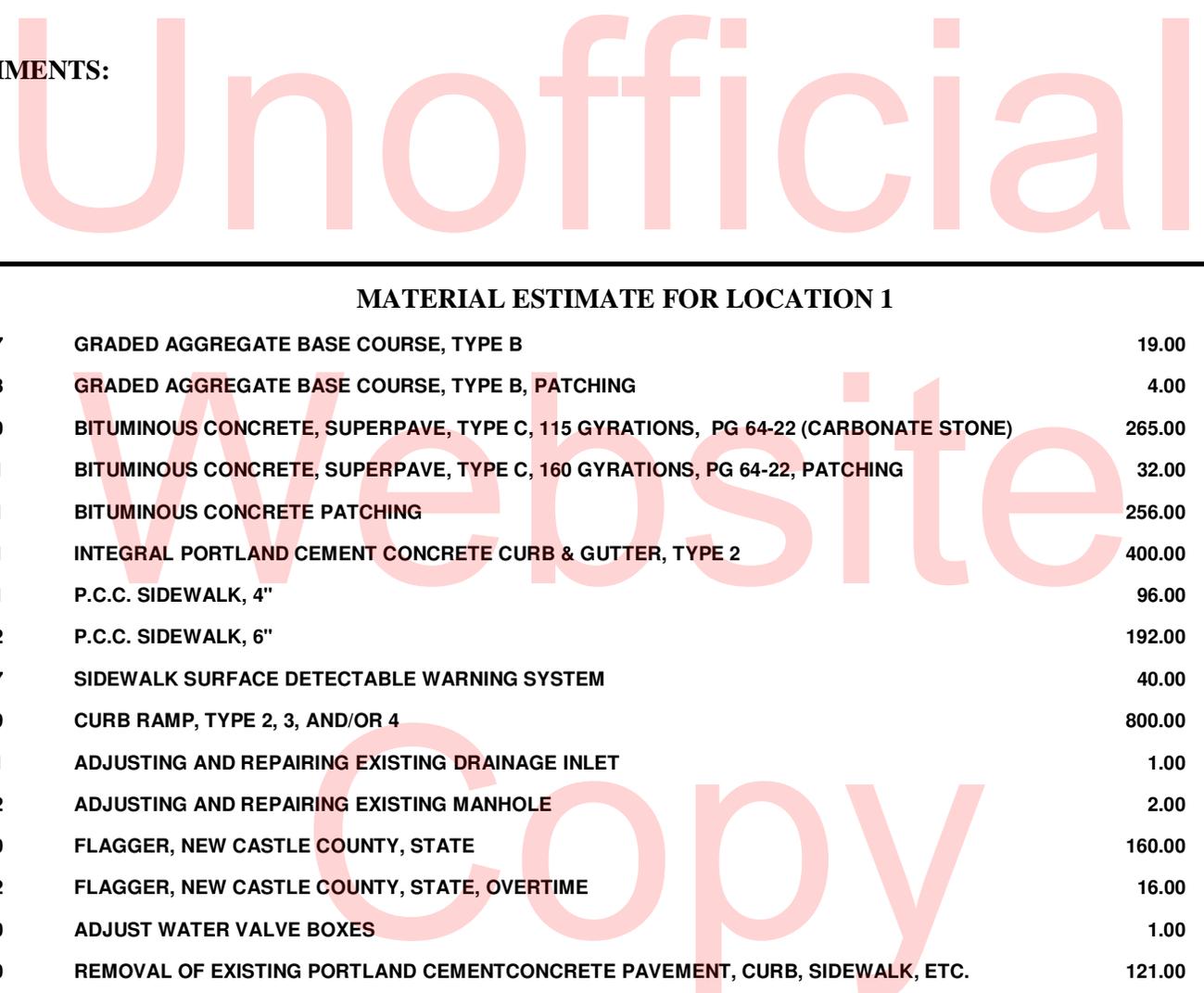
LOCATION 1 BLUE ROCK MANOR - CORDON ROAD FROM WELLESLEY AVENUE TO CHANGE IN HOTMIX @ TURNER ROAD

LENGTH 262.1280 m 860.0000 L.F.

GENERAL IMPROVEMENTS

CURB AND GUTTER REPAIRS, 2" MILL AND OVERLAY

COMMENTS:



MATERIAL ESTIMATE FOR LOCATION 1

302007	GRADED AGGREGATE BASE COURSE, TYPE B	19.00	C.Y.
302008	GRADED AGGREGATE BASE COURSE, TYPE B, PATCHING	4.00	C.Y.
401800	BITUMINOUS CONCRETE, SUPERPAVE, TYPE C, 115 GYRATIONS, PG 64-22 (CARBONATE STONE)	265.00	TON
401821	BITUMINOUS CONCRETE, SUPERPAVE, TYPE C, 160 GYRATIONS, PG 64-22, PATCHING	32.00	TON
406001	BITUMINOUS CONCRETE PATCHING	256.00	SY-IN
701021	INTEGRAL PORTLAND CEMENT CONCRETE CURB & GUTTER, TYPE 2	400.00	L.F.
705001	P.C.C. SIDEWALK, 4"	96.00	S.F.
705002	P.C.C. SIDEWALK, 6"	192.00	S.F.
705007	SIDEWALK SURFACE DETECTABLE WARNING SYSTEM	40.00	S.F.
705009	CURB RAMP, TYPE 2, 3, AND/OR 4	800.00	S.F.
710001	ADJUSTING AND REPAIRING EXISTING DRAINAGE INLET	1.00	EACH
710002	ADJUSTING AND REPAIRING EXISTING MANHOLE	2.00	EACH
743050	FLAGGER, NEW CASTLE COUNTY, STATE	160.00	HOUR
743062	FLAGGER, NEW CASTLE COUNTY, STATE, OVERTIME	16.00	HOUR
750000	ADJUST WATER VALVE BOXES	1.00	EACH
758000	REMOVAL OF EXISTING PORTLAND CEMENT CONCRETE PAVEMENT, CURB, SIDEWALK, ETC.	121.00	S.Y.
760006	PAVEMENT - MILLING, HOT-MIX, 2" DEPTH	2,120.00	S.Y.
762001	SAW CUTTING, BITUMINOUS CONCRETE	583.00	L.F.
762002	SAW CUTTING, CONCRETE, FULL DEPTH	58.00	L.F.
908001	TOPSOIL (TON)	24.00	TON
908016	PERMANENT GRASS SEEDING, SUBDIVISION	72.00	S.Y.
908020	EROSION CONTROL BLANKET MULCH	72.00	S.Y.

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LOCATION 2 **BON AYRE - CLOVER DRIVE FROM PARTRIDGE COURT TO CIDERBROOK ROAD**

LENGTH 292.6080 m 960.0000 L.F.

GENERAL IMPROVEMENTS

CURB & GUTTER REPAIRS, 2" MILL & OVERLAY

COMMENTS:

Unofficial

MATERIAL ESTIMATE FOR LOCATION 2

302007	GRADED AGGREGATE BASE COURSE, TYPE B	12.00	C.Y.
302008	GRADED AGGREGATE BASE COURSE, TYPE B, PATCHING	3.00	C.Y.
401800	BITUMINOUS CONCRETE, SUPERPAVE, TYPE C, 115 GYRATIONS, PG 64-22 (CARBONATE STONE)	550.00	TON
401821	BITUMINOUS CONCRETE, SUPERPAVE, TYPE C, 160 GYRATIONS, PG 64-22, PATCHING	20.00	TON
406001	BITUMINOUS CONCRETE PATCHING	160.00	SY-IN
701021	INTEGRAL PORTLAND CEMENT CONCRETE CURB & GUTTER, TYPE 2	250.00	L.F.
705001	P.C.C. SIDEWALK, 4"	60.00	S.F.
705002	P.C.C. SIDEWALK, 6"	120.00	S.F.
710002	ADJUSTING AND REPAIRING EXISTING MANHOLE	4.00	EACH
743050	FLAGGER, NEW CASTLE COUNTY, STATE	128.00	HOUR
743062	FLAGGER, NEW CASTLE COUNTY, STATE, OVERTIME	13.00	HOUR
758000	REMOVAL OF EXISTING PORTLAND CEMENT CONCRETE PAVEMENT, CURB, SIDEWALK, ETC.	76.00	S.Y.
760006	PAVEMENT - MILLING, HOT-MIX, 2" DEPTH	4,400.00	S.Y.
762001	SAW CUTTING, BITUMINOUS CONCRETE	350.00	L.F.
762002	SAW CUTTING, CONCRETE, FULL DEPTH	35.00	L.F.
908001	TOPSOIL (TON)	15.00	TON
908016	PERMANENT GRASS SEEDING, SUBDIVISION	45.00	S.Y.
908020	EROSION CONTROL BLANKET MULCH	45.00	S.Y.

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LOCATION 3 CENTENNIAL VILLAGE - STARK CT FROM CHANGE IN HOTMIX @ COLONIAL CIRCLE TO CUL-DE-SAC

LENGTH 54.8640 m 180.0000 L.F.

GENERAL IMPROVEMENTS

2" MILL AND OVERLAY(CURB WHERE NECESSARY)

COMMENTS:

Unofficial
Website
Copy

MATERIAL ESTIMATE FOR LOCATION 3

302007	GRADED AGGREGATE BASE COURSE, TYPE B	5.00	C.Y.
302008	GRADED AGGREGATE BASE COURSE, TYPE B, PATCHING	1.00	C.Y.
401800	BITUMINOUS CONCRETE, SUPERPAVE, TYPE C, 115 GYRATIONS, PG 64-22 (CARBONATE STONE)	75.00	TON
401821	BITUMINOUS CONCRETE, SUPERPAVE, TYPE C, 160 GYRATIONS, PG 64-22, PATCHING	8.00	TON
406001	BITUMINOUS CONCRETE PATCHING	64.00	SY-IN
701021	INTEGRAL PORTLAND CEMENT CONCRETE CURB & GUTTER, TYPE 2	100.00	L.F.
705001	P.C.C. SIDEWALK, 4"	24.00	S.F.
705002	P.C.C. SIDEWALK, 6"	48.00	S.F.
710002	ADJUSTING AND REPAIRING EXISTING MANHOLE	1.00	EACH
743050	FLAGGER, NEW CASTLE COUNTY, STATE	48.00	HOUR
743062	FLAGGER, NEW CASTLE COUNTY, STATE, OVERTIME	5.00	HOUR
758000	REMOVAL OF EXISTING PORTLAND CEMENT CONCRETE PAVEMENT, CURB, SIDEWALK, ETC.	30.00	S.Y.
760006	PAVEMENT - MILLING, HOT-MIX, 2" DEPTH	600.00	S.Y.
762001	SAW CUTTING, BITUMINOUS CONCRETE	296.00	L.F.
762002	SAW CUTTING, CONCRETE, FULL DEPTH	32.00	L.F.
908001	TOPSOIL (TON)	4.00	TON
908016	PERMANENT GRASS SEEDING, SUBDIVISION	12.00	S.Y.
908020	EROSION CONTROL BLANKET MULCH	12.00	S.Y.

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COMMUNITY TRANSPORTATION FUND, NORTH I, 2016

LOCATION 4 CENTENNIAL VILLAGE - WARREN PLACE FROM CHANGE IN HOTMIX @ COLONIAL CIRCLE TO CUL-DE-SAC

LENGTH 60.9600 m 200.0000 L.F.

GENERAL IMPROVEMENTS

2" MILL AND OVERLAY(CURB WHERE NECESSARY)

COMMENTS:

Unofficial
Website
Copy

MATERIAL ESTIMATE FOR LOCATION 4

302007	GRADED AGGREGATE BASE COURSE, TYPE B	9.00	C.Y.
302008	GRADED AGGREGATE BASE COURSE, TYPE B, PATCHING	2.00	C.Y.
401800	BITUMINOUS CONCRETE, SUPERPAVE, TYPE C, 115 GYRATIONS, PG 64-22 (CARBONATE STONE)	80.00	TON
401821	BITUMINOUS CONCRETE, SUPERPAVE, TYPE C, 160 GYRATIONS, PG 64-22, PATCHING	15.00	TON
406001	BITUMINOUS CONCRETE PATCHING	122.00	SY-IN
701021	INTEGRAL PORTLAND CEMENT CONCRETE CURB & GUTTER, TYPE 2	190.00	L.F.
705001	P.C.C. SIDEWALK, 4"	46.00	S.F.
705002	P.C.C. SIDEWALK, 6"	92.00	S.F.
710002	ADJUSTING AND REPAIRING EXISTING MANHOLE	1.00	EACH
743050	FLAGGER, NEW CASTLE COUNTY, STATE	64.00	HOUR
743062	FLAGGER, NEW CASTLE COUNTY, STATE, OVERTIME	6.00	HOUR
758000	REMOVAL OF EXISTING PORTLAND CEMENT CONCRETE PAVEMENT, CURB, SIDEWALK, ETC.	57.00	S.Y.
760006	PAVEMENT - MILLING, HOT-MIX, 2" DEPTH	640.00	S.Y.
762001	SAW CUTTING, BITUMINOUS CONCRETE	280.00	L.F.
762002	SAW CUTTING, CONCRETE, FULL DEPTH	28.00	L.F.
908001	TOPSOIL (TON)	6.00	TON
908016	PERMANENT GRASS SEEDING, SUBDIVISION	18.00	S.Y.
908020	EROSION CONTROL BLANKET MULCH	18.00	S.Y.

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LOCATION 5 CHALFONTE - GREENDALE RD FROM CHANGE IN HOTMIX @ BERRYWOOD COURT TO CHANGE IN HOTMIX @ KINGMAN DRIVE

LENGTH 67.0560 m 220.0000 L.F.

GENERAL IMPROVEMENTS

2" MILL AND OVERLAY(CURB WHERE NECESSARY)

COMMENTS:

Unofficial
Website
Copy

MATERIAL ESTIMATE FOR LOCATION 5

302007	GRADED AGGREGATE BASE COURSE, TYPE B	8.00	C.Y.
302008	GRADED AGGREGATE BASE COURSE, TYPE B, PATCHING	2.00	C.Y.
401800	BITUMINOUS CONCRETE, SUPERPAVE, TYPE C, 115 GYRATIONS, PG 64-22 (CARBONATE STONE)	70.00	TON
401821	BITUMINOUS CONCRETE, SUPERPAVE, TYPE C, 160 GYRATIONS, PG 64-22, PATCHING	13.00	TON
406001	BITUMINOUS CONCRETE PATCHING	102.00	SY-IN
701021	INTEGRAL PORTLAND CEMENT CONCRETE CURB & GUTTER, TYPE 2	160.00	L.F.
705001	P.C.C. SIDEWALK, 4"	38.00	S.F.
705002	P.C.C. SIDEWALK, 6"	76.00	S.F.
708060	REPLACE DRAINAGE INLET GRATE(S)	2.00	EACH
708061	REPLACE DRAINAGE INLET FRAME(S)	1.00	EACH
710001	ADJUSTING AND REPAIRING EXISTING DRAINAGE INLET	1.00	EACH
743050	FLAGGER, NEW CASTLE COUNTY, STATE	48.00	HOUR
743062	FLAGGER, NEW CASTLE COUNTY, STATE, OVERTIME	5.00	HOUR
758000	REMOVAL OF EXISTING PORTLAND CEMENT CONCRETE PAVEMENT, CURB, SIDEWALK, ETC.	48.00	S.Y.
760006	PAVEMENT - MILLING, HOT-MIX, 2" DEPTH	560.00	S.Y.
762001	SAW CUTTING, BITUMINOUS CONCRETE	280.00	L.F.
762002	SAW CUTTING, CONCRETE, FULL DEPTH	28.00	L.F.
908001	TOPSOIL (TON)	6.00	TON
908016	PERMANENT GRASS SEEDING, SUBDIVISION	18.00	S.Y.
908020	EROSION CONTROL BLANKET MULCH	18.00	S.Y.

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LOCATION 6 CHALFONTE - JUSTIN LANE FROM JESTER LN TO CHANGE IN HOTMIX @ LONDON DR

LENGTH 496.8240 m 1630.0000 L.F.

GENERAL IMPROVEMENTS

CURB AND GUTTER REPAIRS, 2" MILL AND OVERLAY

COMMENTS:

Unofficial

MATERIAL ESTIMATE FOR LOCATION 6

302007	GRADED AGGREGATE BASE COURSE, TYPE B	5.00	C.Y.
302008	GRADED AGGREGATE BASE COURSE, TYPE B, PATCHING	1.00	C.Y.
401800	BITUMINOUS CONCRETE, SUPERPAVE, TYPE C, 115 GYRATIONS, PG 64-22 (CARBONATE STONE)	500.00	TON
401821	BITUMINOUS CONCRETE, SUPERPAVE, TYPE C, 160 GYRATIONS, PG 64-22, PATCHING	12.00	TON
406001	BITUMINOUS CONCRETE PATCHING	96.00	SY-IN
701021	INTEGRAL PORTLAND CEMENT CONCRETE CURB & GUTTER, TYPE 2	120.00	L.F.
705001	P.C.C. SIDEWALK, 4"	29.00	S.F.
705002	P.C.C. SIDEWALK, 6"	58.00	S.F.
710001	ADJUSTING AND REPAIRING EXISTING DRAINAGE INLET	3.00	EACH
710002	ADJUSTING AND REPAIRING EXISTING MANHOLE	5.00	EACH
743050	FLAGGER, NEW CASTLE COUNTY, STATE	128.00	HOUR
743062	FLAGGER, NEW CASTLE COUNTY, STATE, OVERTIME	13.00	HOUR
758000	REMOVAL OF EXISTING PORTLAND CEMENT CONCRETE PAVEMENT, CURB, SIDEWALK, ETC.	36.00	S.Y.
760006	PAVEMENT - MILLING, HOT-MIX, 2" DEPTH	4,000.00	S.Y.
762001	SAW CUTTING, BITUMINOUS CONCRETE	220.00	L.F.
762002	SAW CUTTING, CONCRETE, FULL DEPTH	20.00	L.F.
908001	TOPSOIL (TON)	10.00	TON
908016	PERMANENT GRASS SEEDING, SUBDIVISION	30.00	S.Y.
908020	EROSION CONTROL BLANKET MULCH	30.00	S.Y.

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LOCATION 7 CHATHAM - BROOKSHIRE DR FROM LARKEL DRIVE TO GRAYLYN ROAD

LENGTH 348.9960 m 1145.0000 L.F.

GENERAL IMPROVEMENTS

2" MILL AND OVERLAY(CURB WHERE NECESSARY)

COMMENTS:

Unofficial

MATERIAL ESTIMATE FOR LOCATION 7

302007	GRADED AGGREGATE BASE COURSE, TYPE B	33.00	C.Y.
302008	GRADED AGGREGATE BASE COURSE, TYPE B, PATCHING	7.00	C.Y.
401800	BITUMINOUS CONCRETE, SUPERPAVE, TYPE C, 115 GYRATIONS, PG 64-22 (CARBONATE STONE)	350.00	TON
401821	BITUMINOUS CONCRETE, SUPERPAVE, TYPE C, 160 GYRATIONS, PG 64-22, PATCHING	57.00	TON
406001	BITUMINOUS CONCRETE PATCHING	454.00	SY-IN
701021	INTEGRAL PORTLAND CEMENT CONCRETE CURB & GUTTER, TYPE 2	710.00	L.F.
705001	P.C.C. SIDEWALK, 4"	170.00	S.F.
705002	P.C.C. SIDEWALK, 6"	340.00	S.F.
708060	REPLACE DRAINAGE INLET GRATE(S)	3.00	EACH
710001	ADJUSTING AND REPAIRING EXISTING DRAINAGE INLET	1.00	EACH
710002	ADJUSTING AND REPAIRING EXISTING MANHOLE	4.00	EACH
743050	FLAGGER, NEW CASTLE COUNTY, STATE	160.00	HOUR
743062	FLAGGER, NEW CASTLE COUNTY, STATE, OVERTIME	16.00	HOUR
758000	REMOVAL OF EXISTING PORTLAND CEMENT CONCRETE PAVEMENT, CURB, SIDEWALK, ETC.	215.00	S.Y.
760006	PAVEMENT - MILLING, HOT-MIX, 2" DEPTH	2,800.00	S.Y.
762001	SAW CUTTING, BITUMINOUS CONCRETE	990.00	L.F.
762002	SAW CUTTING, CONCRETE, FULL DEPTH	99.00	L.F.
908001	TOPSOIL (TON)	26.00	TON
908016	PERMANENT GRASS SEEDING, SUBDIVISION	78.00	S.Y.
908020	EROSION CONTROL BLANKET MULCH	78.00	S.Y.

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LOCATION 8 CLAYMONT ADDITION - DELAWARE AVENUE FROM CHANGE IN HOTMIX @ PHILADELPHIA PIKE TO CHANGE IN HOTMIX @ GREEN STREET

LENGTH 359.6640 m 1180.0000 L.F.

GENERAL IMPROVEMENTS

2" MILL AND OVERLAY(CURB WHERE NECESSARY)

COMMENTS:

Unofficial
Website
Copy

MATERIAL ESTIMATE FOR LOCATION 8

302007	GRADED AGGREGATE BASE COURSE, TYPE B	9.00	C.Y.
302008	GRADED AGGREGATE BASE COURSE, TYPE B, PATCHING	2.00	C.Y.
401511	REMOVE AND CONSTRUCT SPEED HUMP	66.00	L.F.
401800	BITUMINOUS CONCRETE, SUPERPAVE, TYPE C, 115 GYRATIONS, PG 64-22 (CARBONATE STONE)	365.00	TON
401821	BITUMINOUS CONCRETE, SUPERPAVE, TYPE C, 160 GYRATIONS, PG 64-22, PATCHING	16.00	TON
406001	BITUMINOUS CONCRETE PATCHING	128.00	SY-IN
701021	INTEGRAL PORTLAND CEMENT CONCRETE CURB & GUTTER, TYPE 2	200.00	L.F.
705001	P.C.C. SIDEWALK, 4"	48.00	S.F.
705002	P.C.C. SIDEWALK, 6"	96.00	S.F.
710001	ADJUSTING AND REPAIRING EXISTING DRAINAGE INLET	1.00	EACH
710002	ADJUSTING AND REPAIRING EXISTING MANHOLE	5.00	EACH
743003	ARROWPANELS, TYPE C	4.00	EA-DY
743009	FURNISH AND MAINTAIN TRUCK MOUNTED ATTENUATOR, TYPE I	4.00	EA-DY
743050	FLAGGER, NEW CASTLE COUNTY, STATE	160.00	HOUR
743062	FLAGGER, NEW CASTLE COUNTY, STATE, OVERTIME	16.00	HOUR
758000	REMOVAL OF EXISTING PORTLAND CEMENTCONCRETE PAVEMENT, CURB, SIDEWALK, ETC.	60.00	S.Y.
760006	PAVEMENT - MILLING, HOT-MIX, 2" DEPTH	2,920.00	S.Y.
762001	SAW CUTTING, BITUMINOUS CONCRETE	400.00	L.F.
762002	SAW CUTTING, CONCRETE, FULL DEPTH	40.00	L.F.
908001	TOPSOIL (TON)	8.00	TON
908016	PERMANENT GRASS SEEDING, SUBDIVISION	24.00	S.Y.
908020	EROSION CONTROL BLANKET MULCH	24.00	S.Y.

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LOCATION 9 CLAYMONT HEIGHTS - MAPLE LANE FROM LINCOLN AVENUE TO MCKINLEY AVENUE

LENGTH 76.2000 m 250.0000 L.F.

GENERAL IMPROVEMENTS

CURB & GUTTER REPAIRS, 2" MILL & OVERLAY

COMMENTS:

Unofficial

MATERIAL ESTIMATE FOR LOCATION 9

302007	GRADED AGGREGATE BASE COURSE, TYPE B	6.00	C.Y.
302008	GRADED AGGREGATE BASE COURSE, TYPE B, PATCHING	1.00	C.Y.
401511	REMOVE AND CONSTRUCT SPEED HUMP	22.00	L.F.
401800	BITUMINOUS CONCRETE, SUPERPAVE, TYPE C, 115 GYRATIONS, PG 64-22 (CARBONATE STONE)	80.00	TON
401821	BITUMINOUS CONCRETE, SUPERPAVE, TYPE C, 160 GYRATIONS, PG 64-22, PATCHING	10.00	TON
406001	BITUMINOUS CONCRETE PATCHING	77.00	SY-IN
701021	INTEGRAL PORTLAND CEMENT CONCRETE CURB & GUTTER, TYPE 2	120.00	L.F.
705001	P.C.C. SIDEWALK, 4"	29.00	S.F.
705002	P.C.C. SIDEWALK, 6"	58.00	S.F.
705007	SIDEWALK SURFACE DETECTABLE WARNING SYSTEM	40.00	S.F.
705009	CURB RAMP, TYPE 2, 3, AND/OR 4	800.00	S.F.
708060	REPLACE DRAINAGE INLET GRATE(S)	2.00	EACH
710002	ADJUSTING AND REPAIRING EXISTING MANHOLE	2.00	EACH
743050	FLAGGER, NEW CASTLE COUNTY, STATE	80.00	HOUR
743062	FLAGGER, NEW CASTLE COUNTY, STATE, OVERTIME	8.00	HOUR
758000	REMOVAL OF EXISTING PORTLAND CEMENT CONCRETE PAVEMENT, CURB, SIDEWALK, ETC.	36.00	S.Y.
760006	PAVEMENT - MILLING, HOT-MIX, 2" DEPTH	640.00	S.Y.
762001	SAW CUTTING, BITUMINOUS CONCRETE	260.00	L.F.
762002	SAW CUTTING, CONCRETE, FULL DEPTH	26.00	L.F.
908001	TOPSOIL (TON)	13.00	TON
908016	PERMANENT GRASS SEEDING, SUBDIVISION	39.00	S.Y.
908020	EROSION CONTROL BLANKET MULCH	39.00	S.Y.

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LOCATION 10 CLAYMONT HEIGHTS - MAPLE LANE FROM MCKINLEY AVENUE TO WILSON AVENUE

LENGTH 103.6320 m 340.0000 L.F.

GENERAL IMPROVEMENTS

CURB & GUTTER REPAIRS, 2" MILL & OVERLAY

COMMENTS:

Unofficial
Website
Copy

MATERIAL ESTIMATE FOR LOCATION 10

302007	GRADED AGGREGATE BASE COURSE, TYPE B	22.00	C.Y.
302008	GRADED AGGREGATE BASE COURSE, TYPE B, PATCHING	4.00	C.Y.
401800	BITUMINOUS CONCRETE, SUPERPAVE, TYPE C, 115 GYRATIONS, PG 64-22 (CARBONATE STONE)	115.00	TON
401821	BITUMINOUS CONCRETE, SUPERPAVE, TYPE C, 160 GYRATIONS, PG 64-22, PATCHING	37.00	TON
406001	BITUMINOUS CONCRETE PATCHING	294.00	SY-IN
701021	INTEGRAL PORTLAND CEMENT CONCRETE CURB & GUTTER, TYPE 2	460.00	L.F.
705001	P.C.C. SIDEWALK, 4"	110.00	S.F.
705002	P.C.C. SIDEWALK, 6"	220.00	S.F.
705007	SIDEWALK SURFACE DETECTABLE WARNING SYSTEM	60.00	S.F.
705009	CURB RAMP, TYPE 2, 3, AND/OR 4	1,200.00	S.F.
710002	ADJUSTING AND REPAIRING EXISTING MANHOLE	4.00	EACH
743050	FLAGGER, NEW CASTLE COUNTY, STATE	160.00	HOUR
743062	FLAGGER, NEW CASTLE COUNTY, STATE, OVERTIME	16.00	HOUR
758000	REMOVAL OF EXISTING PORTLAND CEMENT CONCRETE PAVEMENT, CURB, SIDEWALK, ETC.	139.00	S.Y.
760006	PAVEMENT - MILLING, HOT-MIX, 2" DEPTH	920.00	S.Y.
762001	SAW CUTTING, BITUMINOUS CONCRETE	750.00	L.F.
762002	SAW CUTTING, CONCRETE, FULL DEPTH	75.00	L.F.
908001	TOPSOIL (TON)	30.00	TON
908016	PERMANENT GRASS SEEDING, SUBDIVISION	90.00	S.Y.
908020	EROSION CONTROL BLANKET MULCH	90.00	S.Y.

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LOCATION 11 **DEVON - CHESHIRE ROAD FROM SOUTH ROCKFIELD ROAD TO HOUSE
#2923 CHESHIRE ROAD**

LENGTH 21.3360 m 70.0000 L.F.

GENERAL IMPROVEMENTS
PATCHING ONLY

COMMENTS:
70x11 PATCH @ HOUSE #2923 CHESHIRE ROAD

MATERIAL ESTIMATE FOR LOCATION 11

401821	BITUMINOUS CONCRETE, SUPERPAVE, TYPE C, 160 GYRATIONS, PG 64-22, PATCHING	32.00	TON
406001	BITUMINOUS CONCRETE PATCHING	510.00	SY-IN
743050	FLAGGER, NEW CASTLE COUNTY, STATE	32.00	HOUR
743062	FLAGGER, NEW CASTLE COUNTY, STATE, OVERTIME	3.00	HOUR
762001	SAW CUTTING, BITUMINOUS CONCRETE	100.00	L.F.

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LOCATION 12 EDGEMOORE TERRACE - DENNY ROAD FROM WEST SALISBURY DRIVE TO STUYVESANT DRIVE

LENGTH 97.5360 m 320.0000 L.F.

GENERAL IMPROVEMENTS

CURB AND GUTTER REPAIRS, 2" MILL AND OVERLAY

COMMENTS:

ESTIMATE INCLUDES INTERSECTION W/ WEST SALISBURY DRIVE

MATERIAL ESTIMATE FOR LOCATION 12

302007	GRADED AGGREGATE BASE COURSE, TYPE B	8.00	C.Y.
302008	GRADED AGGREGATE BASE COURSE, TYPE B, PATCHING	2.00	C.Y.
401800	BITUMINOUS CONCRETE, SUPERPAVE, TYPE C, 115 GYRATIONS, PG 64-22 (CARBONATE STONE)	120.00	TON
401821	BITUMINOUS CONCRETE, SUPERPAVE, TYPE C, 160 GYRATIONS, PG 64-22, PATCHING	14.00	TON
406001	BITUMINOUS CONCRETE PATCHING	115.00	SY-IN
701021	INTEGRAL PORTLAND CEMENT CONCRETE CURB & GUTTER, TYPE 2	180.00	L.F.
705001	P.C.C. SIDEWALK, 4"	43.00	S.F.
705002	P.C.C. SIDEWALK, 6"	86.00	S.F.
710001	ADJUSTING AND REPAIRING EXISTING DRAINAGE INLET	2.00	EACH
710002	ADJUSTING AND REPAIRING EXISTING MANHOLE	1.00	EACH
743050	FLAGGER, NEW CASTLE COUNTY, STATE	64.00	HOUR
743062	FLAGGER, NEW CASTLE COUNTY, STATE, OVERTIME	6.00	HOUR
758000	REMOVAL OF EXISTING PORTLAND CEMENT CONCRETE PAVEMENT, CURB, SIDEWALK, ETC.	54.00	S.Y.
760006	PAVEMENT - MILLING, HOT-MIX, 2" DEPTH	960.00	S.Y.
762001	SAW CUTTING, BITUMINOUS CONCRETE	280.00	L.F.
762002	SAW CUTTING, CONCRETE, FULL DEPTH	28.00	L.F.
908001	TOPSOIL (TON)	7.00	TON
908016	PERMANENT GRASS SEEDING, SUBDIVISION	21.00	S.Y.
908020	EROSION CONTROL BLANKET MULCH	21.00	S.Y.

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LOCATION 13 FAIRFAX - BEAUMONT RD FROM SANDRA RD TO FAIRFAX BLVD

LENGTH 213.3600 m 700.0000 L.F.

GENERAL IMPROVEMENTS

2" MILL AND OVERLAY(CURB WHERE NECESSARY)

COMMENTS:

Unofficial

MATERIAL ESTIMATE FOR LOCATION 13

302007	GRADED AGGREGATE BASE COURSE, TYPE B	33.00	C.Y.
302008	GRADED AGGREGATE BASE COURSE, TYPE B, PATCHING	12.00	C.Y.
401800	BITUMINOUS CONCRETE, SUPERPAVE, TYPE C, 115 GYRATIONS, PG 64-22 (CARBONATE STONE)	260.00	TON
401821	BITUMINOUS CONCRETE, SUPERPAVE, TYPE C, 160 GYRATIONS, PG 64-22, PATCHING	47.00	TON
406001	BITUMINOUS CONCRETE PATCHING	464.00	SY-IN
701004	PORTLAND CEMENT CONCRETE VALLEY GUTTER, 8"	50.00	S.Y.
701021	INTEGRAL PORTLAND CEMENT CONCRETE CURB & GUTTER, TYPE 2	490.00	L.F.
705001	P.C.C. SIDEWALK, 4"	120.00	S.F.
705002	P.C.C. SIDEWALK, 6"	240.00	S.F.
705007	SIDEWALK SURFACE DETECTABLE WARNING SYSTEM	50.00	S.F.
705009	CURB RAMP, TYPE 2, 3, AND/OR 4	1,000.00	S.F.
710002	ADJUSTING AND REPAIRING EXISTING MANHOLE	3.00	EACH
718000	ROOF DRAINS	10.00	L.F.
743050	FLAGGER, NEW CASTLE COUNTY, STATE	160.00	HOUR
743062	FLAGGER, NEW CASTLE COUNTY, STATE, OVERTIME	16.00	HOUR
758000	REMOVAL OF EXISTING PORTLAND CEMENT CONCRETE PAVEMENT, CURB, SIDEWALK, ETC.	198.00	S.Y.
760006	PAVEMENT - MILLING, HOT-MIX, 2" DEPTH	2,080.00	S.Y.
762001	SAW CUTTING, BITUMINOUS CONCRETE	910.00	L.F.
762002	SAW CUTTING, CONCRETE, FULL DEPTH	91.00	L.F.
908001	TOPSOIL (TON)	33.00	TON
908016	PERMANENT GRASS SEEDING, SUBDIVISION	99.00	S.Y.
908020	EROSION CONTROL BLANKET MULCH	99.00	S.Y.

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LOCATION 14 FOUK WOODS - BLACKWOOD ROAD FROM OLD WOOD ROAD TO DEEPWOOD DRIVE

LENGTH 271.2720 m 890.0000 L.F.

GENERAL IMPROVEMENTS

2" MILL AND OVERLAY(CURB WHERE NECESSARY)

COMMENTS:

ESTIMATE INCLUDES INTERSECTION W/ OLD WOOD ROAD

MATERIAL ESTIMATE FOR LOCATION 14

302007	GRADED AGGREGATE BASE COURSE, TYPE B	8.00	C.Y.
302008	GRADED AGGREGATE BASE COURSE, TYPE B, PATCHING	2.00	C.Y.
401800	BITUMINOUS CONCRETE, SUPERPAVE, TYPE C, 115 GYRATIONS, PG 64-22 (CARBONATE STONE)	275.00	TON
401821	BITUMINOUS CONCRETE, SUPERPAVE, TYPE C, 160 GYRATIONS, PG 64-22, PATCHING	14.00	TON
406001	BITUMINOUS CONCRETE PATCHING	115.00	SY-IN
701021	INTEGRAL PORTLAND CEMENT CONCRETE CURB & GUTTER, TYPE 2	180.00	L.F.
705001	P.C.C. SIDEWALK, 4"	43.00	S.F.
705002	P.C.C. SIDEWALK, 6"	86.00	S.F.
705007	SIDEWALK SURFACE DETECTABLE WARNING SYSTEM	30.00	S.F.
705009	CURB RAMP, TYPE 2, 3, AND/OR 4	600.00	S.F.
710001	ADJUSTING AND REPAIRING EXISTING DRAINAGE INLET	2.00	EACH
710002	ADJUSTING AND REPAIRING EXISTING MANHOLE	3.00	EACH
743050	FLAGGER, NEW CASTLE COUNTY, STATE	112.00	HOUR
743062	FLAGGER, NEW CASTLE COUNTY, STATE, OVERTIME	11.00	HOUR
758000	REMOVAL OF EXISTING PORTLAND CEMENT CONCRETE PAVEMENT, CURB, SIDEWALK, ETC.	54.00	S.Y.
760006	PAVEMENT - MILLING, HOT-MIX, 2" DEPTH	2,200.00	S.Y.
762001	SAW CUTTING, BITUMINOUS CONCRETE	320.00	L.F.
762002	SAW CUTTING, CONCRETE, FULL DEPTH	32.00	L.F.
908001	TOPSOIL (TON)	13.00	TON
908016	PERMANENT GRASS SEEDING, SUBDIVISION	39.00	S.Y.
908020	EROSION CONTROL BLANKET MULCH	39.00	S.Y.

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LOCATION 15 **GUMWOOD - GUMWOOD DRIVE FROM SHIPLEY ROAD TO CUL-DE-SAC**
LENGTH 350.5200 m 1150.0000 L.F.
GENERAL IMPROVEMENTS
 2" MILL AND OVERLAY

COMMENTS:

Unofficial

MATERIAL ESTIMATE FOR LOCATION 15

401800	BITUMINOUS CONCRETE, SUPERPAVE, TYPE C, 115 GYRATIONS, PG 64-22 (CARBONATE STONE)	300.00	TON
401819	BITUMINOUS CONCRETE, SUPERPAVE, BITUMINOUS CONCRETE BASE COURSE, 160 GYRATIONS, PG 64-22	9.00	TON
406001	BITUMINOUS CONCRETE PATCHING	144.00	SY-IN
710002	ADJUSTING AND REPAIRING EXISTING MANHOLE	4.00	EACH
743050	FLAGGER, NEW CASTLE COUNTY, STATE	80.00	HOUR
743062	FLAGGER, NEW CASTLE COUNTY, STATE, OVERTIME	8.00	HOUR
760006	PAVEMENT - MILLING, HOT-MIX, 2" DEPTH	2,400.00	S.Y.
762001	SAW CUTTING, BITUMINOUS CONCRETE	196.00	L.F.

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LOCATION 16 GUYENCOURT - GUYENNE ROAD FROM GUYENCOURT ROAD TO CUL-DE-SAC

LENGTH 411.4800 m 1350.0000 L.F.

GENERAL IMPROVEMENTS
3" MILL AND 2" OVERLAY

COMMENTS:

Unofficial

MATERIAL ESTIMATE FOR LOCATION 16

401800	BITUMINOUS CONCRETE, SUPERPAVE, TYPE C, 115 GYRATIONS, PG 64-22 (CARBONATE STONE)	445.00	TON
401819	BITUMINOUS CONCRETE, SUPERPAVE, BITUMINOUS CONCRETE BASE COURSE, 160 GYRATIONS, PG 64-22	12.00	TON
406001	BITUMINOUS CONCRETE PATCHING	192.00	SY-IN
743050	FLAGGER, NEW CASTLE COUNTY, STATE	96.00	HOUR
743062	FLAGGER, NEW CASTLE COUNTY, STATE, OVERTIME	10.00	HOUR
760000	PAVEMENT - MILLING, HOT-MIX	10,560.00	SY-IN
760502	PAVEMENT MILLING, TAPER CUT	500.00	SY-IN
762001	SAW CUTTING, BITUMINOUS CONCRETE	100.00	L.F.

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LOCATION 17

GUYENCOURT - GUYENNE ROAD FROM GUYENCOURT ROAD TO CUL-DE-SAC

LENGTH

GENERAL IMPROVEMENTS

CURB AND GUTTER REPAIRS

COMMENTS:

Unofficial

MATERIAL ESTIMATE FOR LOCATION 17

302007	GRADED AGGREGATE BASE COURSE, TYPE B	35.00	C.Y.
302008	GRADED AGGREGATE BASE COURSE, TYPE B, PATCHING	7.00	C.Y.
401821	BITUMINOUS CONCRETE, SUPERPAVE, TYPE C, 160 GYRATIONS, PG 64-22, PATCHING	60.00	TON
406001	BITUMINOUS CONCRETE PATCHING	477.00	SY-IN
701021	INTEGRAL PORTLAND CEMENT CONCRETE CURB & GUTTER, TYPE 2	740.00	L.F.
705001	P.C.C. SIDEWALK, 4"	180.00	S.F.
705002	P.C.C. SIDEWALK, 6"	360.00	S.F.
743050	FLAGGER, NEW CASTLE COUNTY, STATE	144.00	HOUR
743062	FLAGGER, NEW CASTLE COUNTY, STATE, OVERTIME	14.00	HOUR
758000	REMOVAL OF EXISTING PORTLAND CEMENT CONCRETE PAVEMENT, CURB, SIDEWALK, ETC.	225.00	S.Y.
762001	SAW CUTTING, BITUMINOUS CONCRETE	990.00	L.F.
762002	SAW CUTTING, CONCRETE, FULL DEPTH	99.00	L.F.
908001	TOPSOIL (TON)	30.00	TON
908016	PERMANENT GRASS SEEDING, SUBDIVISION	90.00	S.Y.
908020	EROSION CONTROL BLANKET MULCH	90.00	S.Y.

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LOCATION 18 GWINHURST - HARRISON AVE. FROM LAUREL AVE. TO ODESSA AVE.

LENGTH 73.1520 m 240.0000 L.F.

GENERAL IMPROVEMENTS

2" MILL AND OVERLAY (CURB AND GUTTER REPAIRS WHERE NECESSARY)

COMMENTS:

ESTIMATE INCLUDES INTERSECTION W/ ODESSA

MATERIAL ESTIMATE FOR LOCATION 18

302007	GRADED AGGREGATE BASE COURSE, TYPE B	2.00	C.Y.
302008	GRADED AGGREGATE BASE COURSE, TYPE B, PATCHING	1.00	C.Y.
401800	BITUMINOUS CONCRETE, SUPERPAVE, TYPE C, 115 GYRATIONS, PG 64-22 (CARBONATE STONE)	95.00	TON
401821	BITUMINOUS CONCRETE, SUPERPAVE, TYPE C, 160 GYRATIONS, PG 64-22, PATCHING	3.00	TON
406001	BITUMINOUS CONCRETE PATCHING	26.00	SY-IN
701021	INTEGRAL PORTLAND CEMENT CONCRETE CURB & GUTTER, TYPE 2	40.00	L.F.
705001	P.C.C. SIDEWALK, 4"	9.00	S.F.
705002	P.C.C. SIDEWALK, 6"	18.00	S.F.
710001	ADJUSTING AND REPAIRING EXISTING DRAINAGE INLET	1.00	EACH
710002	ADJUSTING AND REPAIRING EXISTING MANHOLE	2.00	EACH
743050	FLAGGER, NEW CASTLE COUNTY, STATE	48.00	HOUR
743062	FLAGGER, NEW CASTLE COUNTY, STATE, OVERTIME	5.00	HOUR
750000	ADJUST WATER VALVE BOXES	3.00	EACH
758000	REMOVAL OF EXISTING PORTLAND CEMENT CONCRETE PAVEMENT, CURB, SIDEWALK, ETC.	12.00	S.Y.
760006	PAVEMENT - MILLING, HOT-MIX, 2" DEPTH	760.00	S.Y.
762001	SAW CUTTING, BITUMINOUS CONCRETE	90.00	L.F.
762002	SAW CUTTING, CONCRETE, FULL DEPTH	9.00	L.F.
908001	TOPSOIL (TON)	2.00	TON
908016	PERMANENT GRASS SEEDING, SUBDIVISION	6.00	S.Y.
908020	EROSION CONTROL BLANKET MULCH	6.00	S.Y.

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LOCATION 19 GWINHURST - HARRISON AVE. FROM WYOMING AVE. TO LAUREL AVE.

LENGTH 106.6800 m 350.0000 L.F.

GENERAL IMPROVEMENTS

2" MILL AND OVERLAY (CURB AND GUTTER REPAIRS WHERE NECESSARY)

COMMENTS:

Unofficial

MATERIAL ESTIMATE FOR LOCATION 19

302007	GRADED AGGREGATE BASE COURSE, TYPE B	5.00	C.Y.
302008	GRADED AGGREGATE BASE COURSE, TYPE B, PATCHING	1.00	C.Y.
401511	REMOVE AND CONSTRUCT SPEED HUMP	22.00	L.F.
401800	BITUMINOUS CONCRETE, SUPERPAVE, TYPE C, 115 GYRATIONS, PG 64-22 (CARBONATE STONE)	110.00	TON
401821	BITUMINOUS CONCRETE, SUPERPAVE, TYPE C, 160 GYRATIONS, PG 64-22, PATCHING	8.00	TON
406001	BITUMINOUS CONCRETE PATCHING	64.00	SY-IN
701021	INTEGRAL PORTLAND CEMENT CONCRETE CURB & GUTTER, TYPE 2	100.00	L.F.
705001	P.C.C. SIDEWALK, 4"	24.00	S.F.
705002	P.C.C. SIDEWALK, 6"	48.00	S.F.
710001	ADJUSTING AND REPAIRING EXISTING DRAINAGE INLET	2.00	EACH
710002	ADJUSTING AND REPAIRING EXISTING MANHOLE	2.00	EACH
743050	FLAGGER, NEW CASTLE COUNTY, STATE	64.00	HOUR
743062	FLAGGER, NEW CASTLE COUNTY, STATE, OVERTIME	6.00	HOUR
758000	REMOVAL OF EXISTING PORTLAND CEMENT CONCRETE PAVEMENT, CURB, SIDEWALK, ETC.	30.00	S.Y.
760006	PAVEMENT - MILLING, HOT-MIX, 2" DEPTH	880.00	S.Y.
762001	SAW CUTTING, BITUMINOUS CONCRETE	185.00	L.F.
762002	SAW CUTTING, CONCRETE, FULL DEPTH	20.00	L.F.
908001	TOPSOIL (TON)	4.00	TON
908016	PERMANENT GRASS SEEDING, SUBDIVISION	12.00	S.Y.
908020	EROSION CONTROL BLANKET MULCH	12.00	S.Y.

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LOCATION 20 HARVEY RUN - CHRISTOPHER COURT FROM CHANGE IN HOTMIX @
DUSTIN DRIVE TO CUL-DE-SAC

LENGTH 96.0120 m 315.0000 L.F.

GENERAL IMPROVEMENTS

2" MILL AND OVERLAY(CURB WHERE NECESSARY)

COMMENTS:

Unofficial

MATERIAL ESTIMATE FOR LOCATION 20

302007	GRADED AGGREGATE BASE COURSE, TYPE B	8.00	C.Y.
302008	GRADED AGGREGATE BASE COURSE, TYPE B, PATCHING	2.00	C.Y.
401800	BITUMINOUS CONCRETE, SUPERPAVE, TYPE C, 115 GYRATIONS, PG 64-22 (CARBONATE STONE)	135.00	TON
401821	BITUMINOUS CONCRETE, SUPERPAVE, TYPE C, 160 GYRATIONS, PG 64-22, PATCHING	13.00	TON
406001	BITUMINOUS CONCRETE PATCHING	102.00	SY-IN
701021	INTEGRAL PORTLAND CEMENT CONCRETE CURB & GUTTER, TYPE 2	160.00	L.F.
705001	P.C.C. SIDEWALK, 4"	38.00	S.F.
705002	P.C.C. SIDEWALK, 6"	76.00	S.F.
710002	ADJUSTING AND REPAIRING EXISTING MANHOLE	1.00	EACH
743050	FLAGGER, NEW CASTLE COUNTY, STATE	80.00	HOUR
743062	FLAGGER, NEW CASTLE COUNTY, STATE, OVERTIME	8.00	HOUR
750000	ADJUST WATER VALVE BOXES	2.00	EACH
758000	REMOVAL OF EXISTING PORTLAND CEMENT CONCRETE PAVEMENT, CURB, SIDEWALK, ETC.	48.00	S.Y.
760006	PAVEMENT - MILLING, HOT-MIX, 2" DEPTH	1,080.00	S.Y.
760502	PAVEMENT MILLING, TAPER CUT	385.00	SY-IN
762001	SAW CUTTING, BITUMINOUS CONCRETE	330.00	L.F.
762002	SAW CUTTING, CONCRETE, FULL DEPTH	33.00	L.F.
908001	TOPSOIL (TON)	6.00	TON
908016	PERMANENT GRASS SEEDING, SUBDIVISION	18.00	S.Y.
908020	EROSION CONTROL BLANKET MULCH	18.00	S.Y.

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LOCATION 21 **HOLLY OAK TERRACE - HARRISON AVENUE FROM INTERSECTION TO W CLEARVIEW AVENUE**

LENGTH 15.2400 m 50.0000 L.F.

GENERAL IMPROVEMENTS

CURB & GUTTER REPAIRS, 2" MILL & OVERLAY

COMMENTS:

PER CONVERSATION WITH JORDAN SEEMANS ESTIMATE TO INCLUDE THE INTERSECTION OF HARRISON AVENUE AND W CLEARVIEW AVENUE ONLY

MATERIAL ESTIMATE FOR LOCATION 21

302007	GRADED AGGREGATE BASE COURSE, TYPE B	6.00	C.Y.
302008	GRADED AGGREGATE BASE COURSE, TYPE B, PATCHING	1.00	C.Y.
401800	BITUMINOUS CONCRETE, SUPERPAVE, TYPE C, 115 GYRATIONS, PG 64-22 (CARBONATE STONE)	35.00	TON
401821	BITUMINOUS CONCRETE, SUPERPAVE, TYPE C, 160 GYRATIONS, PG 64-22, PATCHING	10.00	TON
406001	BITUMINOUS CONCRETE PATCHING	77.00	SY-IN
701021	INTEGRAL PORTLAND CEMENT CONCRETE CURB & GUTTER, TYPE 2	120.00	L.F.
705001	P.C.C. SIDEWALK, 4"	29.00	S.F.
705002	P.C.C. SIDEWALK, 6"	58.00	S.F.
710002	ADJUSTING AND REPAIRING EXISTING MANHOLE	1.00	EACH
743050	FLAGGER, NEW CASTLE COUNTY, STATE	64.00	HOUR
743062	FLAGGER, NEW CASTLE COUNTY, STATE, OVERTIME	6.00	HOUR
758000	REMOVAL OF EXISTING PORTLAND CEMENT CONCRETE PAVEMENT, CURB, SIDEWALK, ETC.	36.00	S.Y.
760006	PAVEMENT - MILLING, HOT-MIX, 2" DEPTH	280.00	S.Y.
762001	SAW CUTTING, BITUMINOUS CONCRETE	160.00	L.F.
762002	SAW CUTTING, CONCRETE, FULL DEPTH	16.00	L.F.
908001	TOPSOIL (TON)	6.00	TON
908016	PERMANENT GRASS SEEDING, SUBDIVISION	18.00	S.Y.
908020	EROSION CONTROL BLANKET MULCH	18.00	S.Y.

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LOCATION 22 KNOLLWOOD - ALCOTT AVENUE FROM BALFOUR AVENUE TO COLBY AVENUE / EVERETT AVENUE / DENHAM AVENUE

LENGTH 124.9680 m 410.0000 L.F.

GENERAL IMPROVEMENTS

CURB AND GUTTER REPAIRS, 2" MILL AND OVERLAY

COMMENTS:

ESTIMATE INCLUDES TRIANGULAR SECTION AT BALFOUR AVENUE AND INTERSECTION AT COLBY/EVERETT/DENHAM

MATERIAL ESTIMATE FOR LOCATION 22

302007	GRADED AGGREGATE BASE COURSE, TYPE B	7.00	C.Y.
302008	GRADED AGGREGATE BASE COURSE, TYPE B, PATCHING	1.00	C.Y.
401800	BITUMINOUS CONCRETE, SUPERPAVE, TYPE C, 115 GYRATIONS, PG 64-22 (CARBONATE STONE)	270.00	TON
401821	BITUMINOUS CONCRETE, SUPERPAVE, TYPE C, 160 GYRATIONS, PG 64-22, PATCHING	11.00	TON
406001	BITUMINOUS CONCRETE PATCHING	90.00	SY-IN
701021	INTEGRAL PORTLAND CEMENT CONCRETE CURB & GUTTER, TYPE 2	140.00	L.F.
705001	P.C.C. SIDEWALK, 4"	34.00	S.F.
705002	P.C.C. SIDEWALK, 6"	68.00	S.F.
705007	SIDEWALK SURFACE DETECTABLE WARNING SYSTEM	70.00	S.F.
705009	CURB RAMP, TYPE 2, 3, AND/OR 4	1,400.00	S.F.
710001	ADJUSTING AND REPAIRING EXISTING DRAINAGE INLET	1.00	EACH
727502	ADJUSTING EXISTING MONUMENT BOX	1.00	EACH
743050	FLAGGER, NEW CASTLE COUNTY, STATE	112.00	HOUR
743062	FLAGGER, NEW CASTLE COUNTY, STATE, OVERTIME	11.00	HOUR
750000	ADJUST WATER VALVE BOXES	2.00	EACH
758000	REMOVAL OF EXISTING PORTLAND CEMENT CONCRETE PAVEMENT, CURB, SIDEWALK, ETC.	42.00	S.Y.
760006	PAVEMENT - MILLING, HOT-MIX, 2" DEPTH	2,160.00	S.Y.
762001	SAW CUTTING, BITUMINOUS CONCRETE	330.00	L.F.
762002	SAW CUTTING, CONCRETE, FULL DEPTH	33.00	L.F.
908001	TOPSOIL (TON)	20.00	TON
908016	PERMANENT GRASS SEEDING, SUBDIVISION	60.00	S.Y.
908020	EROSION CONTROL BLANKET MULCH	60.00	S.Y.

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LOCATION 23 **LIFTWOOD - ALLMOND AVENUE FROM WELDIN ROAD TO OLD MILL LANE**
 LENGTH 219.4560 m 720.0000 L.F.
GENERAL IMPROVEMENTS
 2" MILL AND OVERLAY

COMMENTS:
 ESTIMATE INCLUDES INTERSECTION W/ WELDIN

MATERIAL ESTIMATE FOR LOCATION 23

302007	GRADED AGGREGATE BASE COURSE, TYPE B	12.00	C.Y.
302008	GRADED AGGREGATE BASE COURSE, TYPE B, PATCHING	7.00	C.Y.
401800	BITUMINOUS CONCRETE, SUPERPAVE, TYPE C, 115 GYRATIONS, PG 64-22 (CARBONATE STONE)	200.00	TON
401821	BITUMINOUS CONCRETE, SUPERPAVE, TYPE C, 160 GYRATIONS, PG 64-22, PATCHING	8.00	TON
406001	BITUMINOUS CONCRETE PATCHING	150.00	SY-IN
701004	PORTLAND CEMENT CONCRETE VALLEY GUTTER, 8"	50.00	S.Y.
710002	ADJUSTING AND REPAIRING EXISTING MANHOLE	2.00	EACH
743050	FLAGGER, NEW CASTLE COUNTY, STATE	64.00	HOUR
743062	FLAGGER, NEW CASTLE COUNTY, STATE, OVERTIME	6.00	HOUR
750000	ADJUST WATER VALVE BOXES	1.00	EACH
758000	REMOVAL OF EXISTING PORTLAND CEMENT CONCRETE PAVEMENT, CURB, SIDEWALK, ETC.	50.00	S.Y.
760006	PAVEMENT - MILLING, HOT-MIX, 2" DEPTH	1,600.00	S.Y.
762001	SAW CUTTING, BITUMINOUS CONCRETE	180.00	L.F.
762002	SAW CUTTING, CONCRETE, FULL DEPTH	18.00	L.F.
908001	TOPSOIL (TON)	3.00	TON
908016	PERMANENT GRASS SEEDING, SUBDIVISION	9.00	S.Y.
908020	EROSION CONTROL BLANKET MULCH	9.00	S.Y.

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LOCATION 24 **LIFTWOOD - GIBSON AVE. FROM HARKER AVE. TO WELDIN RD.**
LENGTH 85.3440 m 280.0000 L.F.
GENERAL IMPROVEMENTS
 2" MILL AND OVERLAY

COMMENTS:

MATERIAL ESTIMATE FOR LOCATION 24

401800	BITUMINOUS CONCRETE, SUPERPAVE, TYPE C, 115 GYRATIONS, PG 64-22 (CARBONATE STONE)	80.00	TON
401819	BITUMINOUS CONCRETE, SUPERPAVE, BITUMINOUS CONCRETE BASE COURSE, 160 GYRATIONS, PG 64-22	6.00	TON
406001	BITUMINOUS CONCRETE PATCHING	96.00	SY-IN
743050	FLAGGER, NEW CASTLE COUNTY, STATE	32.00	HOUR
743062	FLAGGER, NEW CASTLE COUNTY, STATE, OVERTIME	3.00	HOUR
760006	PAVEMENT - MILLING, HOT-MIX, 2" DEPTH	640.00	S.Y.
762001	SAW CUTTING, BITUMINOUS CONCRETE	56.00	L.F.
762002	SAW CUTTING, CONCRETE, FULL DEPTH	14.00	L.F.

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COMMUNITY TRANSPORTATION FUND, NORTH I, 2016

LOCATION 25 **LIFTWOOD - GIBSON AVENUE FROM OLD MILL LANE TO HARKER AVENUE**

LENGTH 164.5920 m 540.0000 L.F.

GENERAL IMPROVEMENTS

CURB AND GUTTER REPAIRS, 2" MILL AND OVERLAY

COMMENTS:

ESTIMATE INCLUDES INTERSECTION W/ HARKER

MATERIAL ESTIMATE FOR LOCATION 25

401800	BITUMINOUS CONCRETE, SUPERPAVE, TYPE C, 115 GYRATIONS, PG 64-22 (CARBONATE STONE)	150.00	TON
401819	BITUMINOUS CONCRETE, SUPERPAVE, BITUMINOUS CONCRETE BASE COURSE, 160 GYRATIONS, PG 64-22	6.00	TON
406001	BITUMINOUS CONCRETE PATCHING	96.00	SY-IN
710001	ADJUSTING AND REPAIRING EXISTING DRAINAGE INLET	1.00	EACH
743050	FLAGGER, NEW CASTLE COUNTY, STATE	32.00	HOUR
743062	FLAGGER, NEW CASTLE COUNTY, STATE, OVERTIME	3.00	HOUR
760006	PAVEMENT - MILLING, HOT-MIX, 2" DEPTH	1,200.00	S.Y.

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LOCATION 26 MCDANIEL CREST - DUNCAN AVENUE FROM CONCORD PIKE TO ORCHARD AVE

LENGTH 335.2800 m 1100.0000 L.F.

GENERAL IMPROVEMENTS
2" MILL AND OVERLAY

COMMENTS:

Unofficial

MATERIAL ESTIMATE FOR LOCATION 26

401800	BITUMINOUS CONCRETE, SUPERPAVE, TYPE C, 115 GYRATIONS, PG 64-22 (CARBONATE STONE)	325.00	TON
401819	BITUMINOUS CONCRETE, SUPERPAVE, BITUMINOUS CONCRETE BASE COURSE, 160 GYRATIONS, PG 64-22	12.00	TON
406001	BITUMINOUS CONCRETE PATCHING	192.00	SY-IN
710002	ADJUSTING AND REPAIRING EXISTING MANHOLE	3.00	EACH
743050	FLAGGER, NEW CASTLE COUNTY, STATE	80.00	HOUR
743062	FLAGGER, NEW CASTLE COUNTY, STATE, OVERTIME	8.00	HOUR
750000	ADJUST WATER VALVE BOXES	2.00	EACH
760006	PAVEMENT - MILLING, HOT-MIX, 2" DEPTH	2,600.00	S.Y.
762001	SAW CUTTING, BITUMINOUS CONCRETE	452.00	L.F.

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LOCATION 27 **MCDANIEL CREST - DUNCAN AVENUE FROM ORCHARD AVE TO SHELLPOT DRIVE**

LENGTH 432.8160 m 1420.0000 L.F.

GENERAL IMPROVEMENTS

CURB AND GUTTER REPAIRS, 2" MILL AND OVERLAY

COMMENTS:

INCLUDES INTERSECTION W/ ORCHARD

MATERIAL ESTIMATE FOR LOCATION 27

302007	GRADED AGGREGATE BASE COURSE, TYPE B	48.00	C.Y.
302008	GRADED AGGREGATE BASE COURSE, TYPE B, PATCHING	20.00	C.Y.
401800	BITUMINOUS CONCRETE, SUPERPAVE, TYPE C, 115 GYRATIONS, PG 64-22 (CARBONATE STONE)	400.00	TON
401821	BITUMINOUS CONCRETE, SUPERPAVE, TYPE C, 160 GYRATIONS, PG 64-22, PATCHING	63.00	TON
406001	BITUMINOUS CONCRETE PATCHING	684.00	SY-IN
701004	PORTLAND CEMENT CONCRETE VALLEY GUTTER, 8"	100.00	S.Y.
701021	INTEGRAL PORTLAND CEMENT CONCRETE CURB & GUTTER, TYPE 2	600.00	L.F.
705001	P.C.C. SIDEWALK, 4"	144.00	S.F.
705002	P.C.C. SIDEWALK, 6"	288.00	S.F.
710002	ADJUSTING AND REPAIRING EXISTING MANHOLE	3.00	EACH
743050	FLAGGER, NEW CASTLE COUNTY, STATE	208.00	HOUR
743062	FLAGGER, NEW CASTLE COUNTY, STATE, OVERTIME	21.00	HOUR
750000	ADJUST WATER VALVE BOXES	3.00	EACH
758000	REMOVAL OF EXISTING PORTLAND CEMENT CONCRETE PAVEMENT, CURB, SIDEWALK, ETC.	281.00	S.Y.
760006	PAVEMENT - MILLING, HOT-MIX, 2" DEPTH	3,200.00	S.Y.
762001	SAW CUTTING, BITUMINOUS CONCRETE	1,400.00	L.F.
762002	SAW CUTTING, CONCRETE, FULL DEPTH	140.00	L.F.
908001	TOPSOIL (TON)	20.00	TON
908016	PERMANENT GRASS SEEDING, SUBDIVISION	60.00	S.Y.
908020	EROSION CONTROL BLANKET MULCH	60.00	S.Y.

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COMMUNITY TRANSPORTATION FUND, NORTH I, 2016

LOCATION 28 NONANTUM MILLS - ELMA DRIVE FROM VANIER DRIVE TO CHANGE IN HOTMIX @ HOUSE #108 ELMA DRIVE

LENGTH 208.7880 m 685.0000 L.F.

GENERAL IMPROVEMENTS

2" MILL AND OVERLAY (CURB AND GUTTER REPAIRS WHERE NECESSARY)

COMMENTS:

ESTIMATE INCLUDES PORTION OF VANIER DRIVE FROM HOUSE #416 TO HOUSE #420 (SEE MAP FOR LIMITS OF ESTIMATE)

MATERIAL ESTIMATE FOR LOCATION 28

302007	GRADED AGGREGATE BASE COURSE, TYPE B	2.00	C.Y.
302008	GRADED AGGREGATE BASE COURSE, TYPE B, PATCHING	1.00	C.Y.
401800	BITUMINOUS CONCRETE, SUPERPAVE, TYPE C, 115 GYRATIONS, PG 64-22 (CARBONATE STONE)	210.00	TON
401821	BITUMINOUS CONCRETE, SUPERPAVE, TYPE C, 160 GYRATIONS, PG 64-22, PATCHING	4.00	TON
406001	BITUMINOUS CONCRETE PATCHING	32.00	SY-IN
701021	INTEGRAL PORTLAND CEMENT CONCRETE CURB & GUTTER, TYPE 2	50.00	L.F.
705001	P.C.C. SIDEWALK, 4"	12.00	S.F.
705002	P.C.C. SIDEWALK, 6"	24.00	S.F.
705007	SIDEWALK SURFACE DETECTABLE WARNING SYSTEM	80.00	S.F.
705009	CURB RAMP, TYPE 2, 3, AND/OR 4	1,600.00	S.F.
710001	ADJUSTING AND REPAIRING EXISTING DRAINAGE INLET	2.00	EACH
710002	ADJUSTING AND REPAIRING EXISTING MANHOLE	3.00	EACH
743050	FLAGGER, NEW CASTLE COUNTY, STATE	112.00	HOUR
743062	FLAGGER, NEW CASTLE COUNTY, STATE, OVERTIME	11.00	HOUR
758000	REMOVAL OF EXISTING PORTLAND CEMENT CONCRETE PAVEMENT, CURB, SIDEWALK, ETC.	15.00	S.Y.
760006	PAVEMENT - MILLING, HOT-MIX, 2" DEPTH	1,680.00	S.Y.
762001	SAW CUTTING, BITUMINOUS CONCRETE	180.00	L.F.
762002	SAW CUTTING, CONCRETE, FULL DEPTH	18.00	L.F.
908001	TOPSOIL (TON)	18.00	TON
908016	PERMANENT GRASS SEEDING, SUBDIVISION	54.00	S.Y.
908020	EROSION CONTROL BLANKET MULCH	54.00	S.Y.

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COMMUNITY TRANSPORTATION FUND, NORTH I, 2016

LOCATION 29 NONANTUM MILLS - ELMA DRIVE FROM VANIER DRIVE TO DRIVEWAY @
HOUSE #100 ELMA DRIVE

LENGTH 83.8200 m 275.0000 L.F.

GENERAL IMPROVEMENTS
PATCHING

COMMENTS:

ESTIMATE INCLUDES (210X22) PATCH ON VANIER DRIVE FROM HOUSE #416 TO HOUSE #420
(SEE MAP FOR LIMITS OF ESTIMATE)

MATERIAL ESTIMATE FOR LOCATION 29

401821	BITUMINOUS CONCRETE, SUPERPAVE, TYPE C, 160 GYRATIONS, PG 64-22, PATCHING	170.00	TON
406001	BITUMINOUS CONCRETE PATCHING	2,800.00	SY-IN
743050	FLAGGER, NEW CASTLE COUNTY, STATE	96.00	HOUR
743062	FLAGGER, NEW CASTLE COUNTY, STATE, OVERTIME	10.00	HOUR
762001	SAW CUTTING, BITUMINOUS CONCRETE	88.00	L.F.

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COMMUNITY TRANSPORTATION FUND, NORTH I, 2016

LOCATION 30

NONANTUM MILLS - LENA DRIVE FROM CATCH BASIN @ HOUSE # 104 LENA DRIVE TO SUMP PUMP @ HOUSE #108 LENA DRIVE

LENGTH 65.5320 m

215.0000 L.F.

GENERAL IMPROVEMENTS
PATCHING

COMMENTS:

(215X22) PATCH

MATERIAL ESTIMATE FOR LOCATION 30

401821	BITUMINOUS CONCRETE, SUPERPAVE, TYPE C, 160 GYRATIONS, PG 64-22, PATCHING	140.00	TON
406001	BITUMINOUS CONCRETE PATCHING	2,100.00	SY-IN
743050	FLAGGER, NEW CASTLE COUNTY, STATE	96.00	HOUR
743062	FLAGGER, NEW CASTLE COUNTY, STATE, OVERTIME	10.00	HOUR
762001	SAW CUTTING, BITUMINOUS CONCRETE	100.00	L.F.

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COMMUNITY TRANSPORTATION FUND, NORTH I, 2016

LOCATION 31 NONANTUM MILLS - NONANTUM DRIVE FROM ACROSS FROM HOUSE #213
LENGTH 18.2880 m 60.0000 L.F.
GENERAL IMPROVEMENTS
PATCHING

COMMENTS:
(60x10) PATCH

MATERIAL ESTIMATE FOR LOCATION 31

401821	BITUMINOUS CONCRETE, SUPERPAVE, TYPE C, 160 GYRATIONS, PG 64-22, PATCHING	25.00	TON
406001	BITUMINOUS CONCRETE PATCHING	400.00	SY-IN
743050	FLAGGER, NEW CASTLE COUNTY, STATE	32.00	HOUR
743062	FLAGGER, NEW CASTLE COUNTY, STATE, OVERTIME	3.00	HOUR
762001	SAW CUTTING, BITUMINOUS CONCRETE	100.00	L.F.

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LOCATION 32 NONANTUM MILLS - NONANTUM DRIVE FROM HOUSE # 315 TO HOUSE #320
LENGTH 53.3400 m 175.0000 L.F.
GENERAL IMPROVEMENTS
PATCHING

COMMENTS:
(175X32) PATCH

MATERIAL ESTIMATE FOR LOCATION 32

401821	BITUMINOUS CONCRETE, SUPERPAVE, TYPE C, 160 GYRATIONS, PG 64-22, PATCHING	120.00	TON
406001	BITUMINOUS CONCRETE PATCHING	3,600.00	SY-IN
743050	FLAGGER, NEW CASTLE COUNTY, STATE	112.00	HOUR
743062	FLAGGER, NEW CASTLE COUNTY, STATE, OVERTIME	11.00	HOUR
762001	SAW CUTTING, BITUMINOUS CONCRETE	128.00	L.F.

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LOCATION 33 **NONANTUM MILLS - NONANTUM DRIVE FROM HOUSE #204 TO HOUSE #206**
LENGTH 35.0520 m 115.0000 L.F.
GENERAL IMPROVEMENTS
 PATCHING

COMMENTS:
 (115x10) PATCH

MATERIAL ESTIMATE FOR LOCATION 33

401821	BITUMINOUS CONCRETE, SUPERPAVE, TYPE C, 160 GYRATIONS, PG 64-22, PATCHING	48.00	TON
406001	BITUMINOUS CONCRETE PATCHING	720.00	SY-IN
743050	FLAGGER, NEW CASTLE COUNTY, STATE	48.00	HOUR
743062	FLAGGER, NEW CASTLE COUNTY, STATE, OVERTIME	5.00	HOUR
762001	SAW CUTTING, BITUMINOUS CONCRETE	135.00	L.F.

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LOCATION 34 NONANTUM MILLS - NONANTUM DRIVE FROM OLD PAPERMILL TO
DRIVEWAY @ HOUSE #100 NONANTUM

LENGTH 25.9080 m 85.0000 L.F.

GENERAL IMPROVEMENTS
PATCHING

COMMENTS:

(85x11) PATCH SAME SIDE OF ROAD AS HOUSE #100

MATERIAL ESTIMATE FOR LOCATION 34

401821	BITUMINOUS CONCRETE, SUPERPAVE, TYPE C, 160 GYRATIONS, PG 64-22, PATCHING	26.00	TON
406001	BITUMINOUS CONCRETE PATCHING	400.00	SY-IN
743050	FLAGGER, NEW CASTLE COUNTY, STATE	32.00	HOUR
743062	FLAGGER, NEW CASTLE COUNTY, STATE, OVERTIME	3.00	HOUR
762001	SAW CUTTING, BITUMINOUS CONCRETE	110.00	L.F.

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COMMUNITY TRANSPORTATION FUND, NORTH I, 2016

LOCATION 35 NONANTUM MILLS - WILKERDEAN DRIVE EAST FROM HOUSE #115
 WILERDEAN DRIVE EAST TO HOUSE #117 WILERDEAN DRIVE EAST

LENGTH 21.3360 m 70.0000 L.F.

GENERAL IMPROVEMENTS
 PATCHING

COMMENTS:

DAMAGE POSSIBLE CAUSED BY NEWARK CITY WATER LEAK

MATERIAL ESTIMATE FOR LOCATION 35

302007	GRADED AGGREGATE BASE COURSE, TYPE B	1.00	C.Y.
302008	GRADED AGGREGATE BASE COURSE, TYPE B, PATCHING	1.00	C.Y.
401821	BITUMINOUS CONCRETE, SUPERPAVE, TYPE C, 160 GYRATIONS, PG 64-22, PATCHING	45.00	TON
406001	BITUMINOUS CONCRETE PATCHING	700.00	SY-IN
701021	INTEGRAL PORTLAND CEMENT CONCRETE CURB & GUTTER, TYPE 2	30.00	L.F.
705001	P.C.C. SIDEWALK, 4"	7.00	S.F.
705002	P.C.C. SIDEWALK, 6"	14.00	S.F.
743050	FLAGGER, NEW CASTLE COUNTY, STATE	64.00	HOUR
743062	FLAGGER, NEW CASTLE COUNTY, STATE, OVERTIME	6.00	HOUR
758000	REMOVAL OF EXISTING PORTLAND CEMENT CONCRETE PAVEMENT, CURB, SIDEWALK, ETC.	9.00	S.Y.
762001	SAW CUTTING, BITUMINOUS CONCRETE	125.00	L.F.
762002	SAW CUTTING, CONCRETE, FULL DEPTH	12.00	L.F.
908001	TOPSOIL (TON)	2.00	TON
908016	PERMANENT GRASS SEEDING, SUBDIVISION	6.00	S.Y.
908020	EROSION CONTROL BLANKET MULCH	6.00	S.Y.

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COMMUNITY TRANSPORTATION FUND, NORTH I, 2016

LOCATION 36 NONANTUM MILLS - WILKERDEAN DRIVE WEST FROM CARLA DRIVE TO
HOUSE #195 WILKERDEAN

LENGTH 10.6680 m 35.0000 L.F.

GENERAL IMPROVEMENTS
PATCHING

COMMENTS:
(35x35) PATCH

MATERIAL ESTIMATE FOR LOCATION 36

401821	BITUMINOUS CONCRETE, SUPERPAVE, TYPE C, 160 GYRATIONS, PG 64-22, PATCHING	35.00	TON
406001	BITUMINOUS CONCRETE PATCHING	650.00	SY-IN
743050	FLAGGER, NEW CASTLE COUNTY, STATE	64.00	HOUR
743062	FLAGGER, NEW CASTLE COUNTY, STATE, OVERTIME	6.00	HOUR
762001	SAW CUTTING, BITUMINOUS CONCRETE	140.00	L.F.

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COMMUNITY TRANSPORTATION FUND, NORTH I, 2016

LOCATION 37

OLD POST FARMS - PREAKNESS RUN FROM HOUSE #445 PREAKNESS RUN
TO HOUSE #449 PREAKNESS RUN

LENGTH 48.7680 m

160.0000 L.F.

GENERAL IMPROVEMENTS
PATCHING ONLY

COMMENTS:

Unofficial

MATERIAL ESTIMATE FOR LOCATION 37

401821	BITUMINOUS CONCRETE, SUPERPAVE, TYPE C, 160 GYRATIONS, PG 64-22, PATCHING	120.00	TON
406001	BITUMINOUS CONCRETE PATCHING	1,800.00	SY-IN
743050	FLAGGER, NEW CASTLE COUNTY, STATE	112.00	HOUR
743062	FLAGGER, NEW CASTLE COUNTY, STATE, OVERTIME	11.00	HOUR
762001	SAW CUTTING, BITUMINOUS CONCRETE	160.00	L.F.

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COMMUNITY TRANSPORTATION FUND, NORTH I, 2016

LOCATION 38 **PENCADER VILLAGE - WINSOME WAY FROM NEW HOTMIX @ GARVEY LANE (HOUSE #5) TO NEW HOTMIX @ LOCKE COURT (HOUSE #18)**

LENGTH 207.2640 m 680.0000 L.F.

GENERAL IMPROVEMENTS

CURB & GUTTER REPAIRS, 2" MILL & OVERLAY

COMMENTS:

ESTIMATE FOR SECTION OF WINSOME WAY WITH HOUSE #5, 10, & 15 - CURB WHERE NECESSARY

MATERIAL ESTIMATE FOR LOCATION 38

302007	GRADED AGGREGATE BASE COURSE, TYPE B	4.00	C.Y.
302008	GRADED AGGREGATE BASE COURSE, TYPE B, PATCHING	1.00	C.Y.
401511	REMOVE AND CONSTRUCT SPEED HUMP	44.00	L.F.
401800	BITUMINOUS CONCRETE, SUPERPAVE, TYPE C, 115 GYRATIONS, PG 64-22 (CARBONATE STONE)	220.00	TON
401821	BITUMINOUS CONCRETE, SUPERPAVE, TYPE C, 160 GYRATIONS, PG 64-22, PATCHING	8.00	TON
406001	BITUMINOUS CONCRETE PATCHING	70.00	SY-IN
701021	INTEGRAL PORTLAND CEMENT CONCRETE CURB & GUTTER, TYPE 2	90.00	L.F.
705001	P.C.C. SIDEWALK, 4"	22.00	S.F.
705002	P.C.C. SIDEWALK, 6"	44.00	S.F.
705007	SIDEWALK SURFACE DETECTABLE WARNING SYSTEM	40.00	S.F.
705009	CURB RAMP, TYPE 2, 3, AND/OR 4	800.00	S.F.
710001	ADJUSTING AND REPAIRING EXISTING DRAINAGE INLET	1.00	EACH
710002	ADJUSTING AND REPAIRING EXISTING MANHOLE	3.00	EACH
743050	FLAGGER, NEW CASTLE COUNTY, STATE	144.00	HOUR
743062	FLAGGER, NEW CASTLE COUNTY, STATE, OVERTIME	14.00	HOUR
758000	REMOVAL OF EXISTING PORTLAND CEMENT CONCRETE PAVEMENT, CURB, SIDEWALK, ETC.	27.00	S.Y.
760006	PAVEMENT - MILLING, HOT-MIX, 2" DEPTH	1,760.00	S.Y.
762001	SAW CUTTING, BITUMINOUS CONCRETE	290.00	L.F.
762002	SAW CUTTING, CONCRETE, FULL DEPTH	29.00	L.F.
908001	TOPSOIL (TON)	10.00	TON
908016	PERMANENT GRASS SEEDING, SUBDIVISION	30.00	S.Y.
908020	EROSION CONTROL BLANKET MULCH	30.00	S.Y.

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LOCATION 39 **PENNY HILL - WIER AVENUE FROM HILLCREST AVENUE TO END**
LENGTH 111.2520 m 365.0000 L.F.
GENERAL IMPROVEMENTS
 2" MILL AND OVERLAY

COMMENTS:

Unofficial
Website
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MATERIAL ESTIMATE FOR LOCATION 39

401800	BITUMINOUS CONCRETE, SUPERPAVE, TYPE C, 115 GYRATIONS, PG 64-22 (CARBONATE STONE)	105.00	TON
401819	BITUMINOUS CONCRETE, SUPERPAVE, BITUMINOUS CONCRETE BASE COURSE, 160 GYRATIONS, PG 64-22	6.00	TON
406001	BITUMINOUS CONCRETE PATCHING	96.00	SY-IN
705007	SIDEWALK SURFACE DETECTABLE WARNING SYSTEM	20.00	S.F.
705009	CURB RAMP, TYPE 2, 3, AND/OR 4	400.00	S.F.
710002	ADJUSTING AND REPAIRING EXISTING MANHOLE	2.00	EACH
743003	ARROWPANELS, TYPE C	2.00	EA-DY
743009	FURNISH AND MAINTAIN TRUCK MOUNTED ATTENUATOR, TYPE I	2.00	EA-DY
743050	FLAGGER, NEW CASTLE COUNTY, STATE	64.00	HOUR
743062	FLAGGER, NEW CASTLE COUNTY, STATE, OVERTIME	6.00	HOUR
750000	ADJUST WATER VALVE BOXES	1.00	EACH
760006	PAVEMENT - MILLING, HOT-MIX, 2" DEPTH	840.00	S.Y.
762001	SAW CUTTING, BITUMINOUS CONCRETE	20.00	L.F.

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COMMUNITY TRANSPORTATION FUND, NORTH I, 2016

LOCATION 40 STOCKDALE - CASTLE AVENUE FROM PALACE AVENUE TO GOVERNOR PRINTZ EXTENSION

LENGTH 158.4960 m 520.0000 L.F.

GENERAL IMPROVEMENTS

CURB & GUTTER REPAIRS, 2" MILL & OVERLAY

COMMENTS:

Unofficial

MATERIAL ESTIMATE FOR LOCATION 40

302007	GRADED AGGREGATE BASE COURSE, TYPE B	5.00	C.Y.
302008	GRADED AGGREGATE BASE COURSE, TYPE B, PATCHING	1.00	C.Y.
401800	BITUMINOUS CONCRETE, SUPERPAVE, TYPE C, 115 GYRATIONS, PG 64-22 (CARBONATE STONE)	170.00	TON
401821	BITUMINOUS CONCRETE, SUPERPAVE, TYPE C, 160 GYRATIONS, PG 64-22, PATCHING	8.00	TON
406001	BITUMINOUS CONCRETE PATCHING	64.00	SY-IN
701021	INTEGRAL PORTLAND CEMENT CONCRETE CURB & GUTTER, TYPE 2	100.00	L.F.
705001	P.C.C. SIDEWALK, 4"	24.00	S.F.
705002	P.C.C. SIDEWALK, 6"	48.00	S.F.
705007	SIDEWALK SURFACE DETECTABLE WARNING SYSTEM	50.00	S.F.
705009	CURB RAMP, TYPE 2, 3, AND/OR 4	1,000.00	S.F.
710002	ADJUSTING AND REPAIRING EXISTING MANHOLE	4.00	EACH
743050	FLAGGER, NEW CASTLE COUNTY, STATE	112.00	HOUR
743062	FLAGGER, NEW CASTLE COUNTY, STATE, OVERTIME	11.00	HOUR
750000	ADJUST WATER VALVE BOXES	1.00	EACH
758000	REMOVAL OF EXISTING PORTLAND CEMENT CONCRETE PAVEMENT, CURB, SIDEWALK, ETC.	30.00	S.Y.
760006	PAVEMENT - MILLING, HOT-MIX, 2" DEPTH	1,360.00	S.Y.
762001	SAW CUTTING, BITUMINOUS CONCRETE	180.00	L.F.
762002	SAW CUTTING, CONCRETE, FULL DEPTH	18.00	L.F.
908001	TOPSOIL (TON)	14.00	TON
908016	PERMANENT GRASS SEEDING, SUBDIVISION	42.00	S.Y.
908020	EROSION CONTROL BLANKET MULCH	42.00	S.Y.

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LOCATION 41 STOCKDALE - PYRAMID AVENUE FROM PALACE AVENUE TO GOVERNOR PRINTZ EXTENSION

LENGTH 160.0200 m 525.0000 L.F.

GENERAL IMPROVEMENTS

CURB & GUTTER REPAIRS, 2" MILL & OVERLAY

COMMENTS:

Unofficial
Website
Copy

MATERIAL ESTIMATE FOR LOCATION 41

302007	GRADED AGGREGATE BASE COURSE, TYPE B	11.00	C.Y.
302008	GRADED AGGREGATE BASE COURSE, TYPE B, PATCHING	2.00	C.Y.
401800	BITUMINOUS CONCRETE, SUPERPAVE, TYPE C, 115 GYRATIONS, PG 64-22 (CARBONATE STONE)	165.00	TON
401821	BITUMINOUS CONCRETE, SUPERPAVE, TYPE C, 160 GYRATIONS, PG 64-22, PATCHING	18.00	TON
406001	BITUMINOUS CONCRETE PATCHING	147.00	SY-IN
701021	INTEGRAL PORTLAND CEMENT CONCRETE CURB & GUTTER, TYPE 2	230.00	L.F.
705001	P.C.C. SIDEWALK, 4"	55.00	S.F.
705002	P.C.C. SIDEWALK, 6"	110.00	S.F.
705007	SIDEWALK SURFACE DETECTABLE WARNING SYSTEM	40.00	S.F.
705009	CURB RAMP, TYPE 2, 3, AND/OR 4	800.00	S.F.
710002	ADJUSTING AND REPAIRING EXISTING MANHOLE	3.00	EACH
743050	FLAGGER, NEW CASTLE COUNTY, STATE	112.00	HOUR
743062	FLAGGER, NEW CASTLE COUNTY, STATE, OVERTIME	11.00	HOUR
758000	REMOVAL OF EXISTING PORTLAND CEMENT CONCRETE PAVEMENT, CURB, SIDEWALK, ETC.	70.00	S.Y.
760006	PAVEMENT - MILLING, HOT-MIX, 2" DEPTH	1,320.00	S.Y.
762001	SAW CUTTING, BITUMINOUS CONCRETE	444.00	L.F.
762002	SAW CUTTING, CONCRETE, FULL DEPTH	44.00	L.F.
908001	TOPSOIL (TON)	10.00	TON
908016	PERMANENT GRASS SEEDING, SUBDIVISION	30.00	S.Y.
908020	EROSION CONTROL BLANKET MULCH	30.00	S.Y.

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COMMUNITY TRANSPORTATION FUND, NORTH I, 2016

LOCATION 42 STUYVESANT HILLS - STUYVESANT FROM 21 STUYVESANT TO SPEED HUMP

LENGTH 21.3360 m 70.0000 L.F.

GENERAL IMPROVEMENTS
PATCHING ONLY

COMMENTS:

Unofficial

MATERIAL ESTIMATE FOR LOCATION 42

401821	BITUMINOUS CONCRETE, SUPERPAVE, TYPE C, 160 GYRATIONS, PG 64-22, PATCHING	50.00	TON
406001	BITUMINOUS CONCRETE PATCHING	800.00	SY-IN
743050	FLAGGER, NEW CASTLE COUNTY, STATE	80.00	HOUR
743062	FLAGGER, NEW CASTLE COUNTY, STATE, OVERTIME	8.00	HOUR
762001	SAW CUTTING, BITUMINOUS CONCRETE	50.00	L.F.

Website

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COMMUNITY TRANSPORTATION FUND, NORTH I, 2016

LOCATION 43 TAYLORTOWNE - DICKENS TERRACE FROM PENMAN DR TO END OF ROADWAY

LENGTH 233.1720 m 765.0000 L.F.

GENERAL IMPROVEMENTS

2" MILL AND OVERLAY(CURB WHERE NECESSARY)

COMMENTS:

INCLUDES LOOP

Unofficial

MATERIAL ESTIMATE FOR LOCATION 43

302007	GRADED AGGREGATE BASE COURSE, TYPE B	19.00	C.Y.
302008	GRADED AGGREGATE BASE COURSE, TYPE B, PATCHING	4.00	C.Y.
401800	BITUMINOUS CONCRETE, SUPERPAVE, TYPE C, 115 GYRATIONS, PG 64-22 (CARBONATE STONE)	235.00	TON
401821	BITUMINOUS CONCRETE, SUPERPAVE, TYPE C, 160 GYRATIONS, PG 64-22, PATCHING	32.00	TON
406001	BITUMINOUS CONCRETE PATCHING	256.00	SY-IN
701021	INTEGRAL PORTLAND CEMENT CONCRETE CURB & GUTTER, TYPE 2	400.00	L.F.
705001	P.C.C. SIDEWALK, 4"	96.00	S.F.
705002	P.C.C. SIDEWALK, 6"	192.00	S.F.
710001	ADJUSTING AND REPAIRING EXISTING DRAINAGE INLET	1.00	EACH
710002	ADJUSTING AND REPAIRING EXISTING MANHOLE	3.00	EACH
743050	FLAGGER, NEW CASTLE COUNTY, STATE	144.00	HOURL
743062	FLAGGER, NEW CASTLE COUNTY, STATE, OVERTIME	14.00	HOURL
758000	REMOVAL OF EXISTING PORTLAND CEMENT CONCRETE PAVEMENT, CURB, SIDEWALK, ETC.	121.00	S.Y.
760006	PAVEMENT - MILLING, HOT-MIX, 2" DEPTH	1,870.00	S.Y.
762001	SAW CUTTING, BITUMINOUS CONCRETE	720.00	L.F.
762002	SAW CUTTING, CONCRETE, FULL DEPTH	72.00	L.F.
908001	TOPSOIL (TON)	16.00	TON
908016	PERMANENT GRASS SEEDING, SUBDIVISION	48.00	S.Y.
908020	EROSION CONTROL BLANKET MULCH	48.00	S.Y.

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COMMUNITY TRANSPORTATION FUND, NORTH I, 2016

LOCATION 44 **TERRACES OF OLD IRON HILL - WINTERVIEW WAY FROM OLD
BALTIMORE PIKE TO SPRING CREEK COURT**

LENGTH 220.9800 m 725.0000 L.F.

GENERAL IMPROVEMENTS

CURB AND GUTTER REPAIRS, 2" MILL AND OVERLAY

COMMENTS:

ESTIMATE INCLUDES INTERSECTION W/ SPRING CREEK COURT

MATERIAL ESTIMATE FOR LOCATION 44

302007	GRADED AGGREGATE BASE COURSE, TYPE B	4.00	C.Y.
302008	GRADED AGGREGATE BASE COURSE, TYPE B, PATCHING	1.00	C.Y.
401800	BITUMINOUS CONCRETE, SUPERPAVE, TYPE C, 115 GYRATIONS, PG 64-22 (CARBONATE STONE)	325.00	TON
401821	BITUMINOUS CONCRETE, SUPERPAVE, TYPE C, 160 GYRATIONS, PG 64-22, PATCHING	8.00	TON
406001	BITUMINOUS CONCRETE PATCHING	64.00	SY-IN
701021	INTEGRAL PORTLAND CEMENT CONCRETE CURB & GUTTER, TYPE 2	80.00	L.F.
705001	P.C.C. SIDEWALK, 4"	19.00	S.F.
705002	P.C.C. SIDEWALK, 6"	38.00	S.F.
710001	ADJUSTING AND REPAIRING EXISTING DRAINAGE INLET	1.00	EACH
710002	ADJUSTING AND REPAIRING EXISTING MANHOLE	3.00	EACH
743003	ARROWPANELS, TYPE C	3.00	EA-DY
743009	FURNISH AND MAINTAIN TRUCK MOUNTED ATTENUATOR, TYPE I	3.00	EA-DY
743050	FLAGGER, NEW CASTLE COUNTY, STATE	96.00	HOUR
743062	FLAGGER, NEW CASTLE COUNTY, STATE, OVERTIME	10.00	HOUR
748015	PERMANENT PAVEMENT STRIPING, SYMBOL/LEGEND ALKYD-THERMOPLAST IC	20.00	S.F.
758000	REMOVAL OF EXISTING PORTLAND CEMENTCONCRETE PAVEMENT, CURB, SIDEWALK, ETC.	15.00	S.Y.
760006	PAVEMENT - MILLING, HOT-MIX, 2" DEPTH	2,600.00	S.Y.
762001	SAW CUTTING, BITUMINOUS CONCRETE	120.00	L.F.
762002	SAW CUTTING, CONCRETE, FULL DEPTH	12.00	L.F.
908001	TOPSOIL (TON)	10.00	TON
908016	PERMANENT GRASS SEEDING, SUBDIVISION	30.00	S.Y.
908020	EROSION CONTROL BLANKET MULCH	30.00	S.Y.

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COMMUNITY TRANSPORTATION FUND, NORTH I, 2016

LOCATION 45 WELLINGTON HILLS - JACQUELINE DRIVE FROM RIDON DRIVE TO
ARTHUR DRIVE

LENGTH 301.7520 m 990.0000 L.F.

GENERAL IMPROVEMENTS

2" MILL & OVERLAY

COMMENTS:

ESTIMATE INCLUDES HOUSE #3 AND HOUSE #7

MATERIAL ESTIMATE FOR LOCATION 45

401800	BITUMINOUS CONCRETE, SUPERPAVE, TYPE C, 115 GYRATIONS, PG 64-22 (CARBONATE STONE)	305.00	TON
401819	BITUMINOUS CONCRETE, SUPERPAVE, BITUMINOUS CONCRETE BASE COURSE, 160 GYRATIONS, PG 64-22	9.00	TON
406001	BITUMINOUS CONCRETE PATCHING	144.00	SY-IN
710002	ADJUSTING AND REPAIRING EXISTING MANHOLE	7.00	EACH
743050	FLAGGER, NEW CASTLE COUNTY, STATE	96.00	HOUR
743062	FLAGGER, NEW CASTLE COUNTY, STATE, OVERTIME	10.00	HOUR
760006	PAVEMENT - MILLING, HOT-MIX, 2" DEPTH	2,440.00	S.Y.
762001	SAW CUTTING, BITUMINOUS CONCRETE	168.00	L.F.

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COMMUNITY TRANSPORTATION FUND, NORTH I, 2016

LOCATION 46 WESTRIDGE - BELLFIELD COURT FROM RIDGEVIEW DRIVE TO CUL-DE-SAC

LENGTH 266.7000 m 875.0000 L.F.

GENERAL IMPROVEMENTS

2" MILL & OVERLAY

COMMENTS:

Unofficial

MATERIAL ESTIMATE FOR LOCATION 46

401800	BITUMINOUS CONCRETE, SUPERPAVE, TYPE C, 115 GYRATIONS, PG 64-22 (CARBONATE STONE)	300.00	TON
401819	BITUMINOUS CONCRETE, SUPERPAVE, BITUMINOUS CONCRETE BASE COURSE, 160 GYRATIONS, PG 64-22	9.00	TON
406001	BITUMINOUS CONCRETE PATCHING	144.00	SY-IN
705007	SIDEWALK SURFACE DETECTABLE WARNING SYSTEM	50.00	S.F.
705009	CURB RAMP, TYPE 2, 3, AND/OR 4	1,000.00	S.F.
710002	ADJUSTING AND REPAIRING EXISTING MANHOLE	2.00	EACH
743003	ARROWPANELS, TYPE C	3.00	EA-DY
743009	FURNISH AND MAINTAIN TRUCK MOUNTED ATTENUATOR, TYPE I	3.00	EA-DY
743050	FLAGGER, NEW CASTLE COUNTY, STATE	112.00	HOUR
743062	FLAGGER, NEW CASTLE COUNTY, STATE, OVERTIME	11.00	HOUR
750000	ADJUST WATER VALVE BOXES	1.00	EACH
760006	PAVEMENT - MILLING, HOT-MIX, 2" DEPTH	2,400.00	S.Y.
762001	SAW CUTTING, BITUMINOUS CONCRETE	126.00	L.F.

Website
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COMMUNITY TRANSPORTATION FUND, NORTH I, 2016

LOCATION 47 WESTWOOD MANOR - GREENBRIAR DRIVE FROM VEALE ROAD TO TREVALLEY ROAD

LENGTH 329.1840 m 1080.0000 L.F.

GENERAL IMPROVEMENTS

CURB AND GUTTER REPAIRS, MILL AND OVERLAY

COMMENTS:

- 3" MILL & 2" OVERLAY (VEALE - FORREST)
- 2" MILL & 2" OVERLAY (INT W/ FORREST - TREVALLEY)

MATERIAL ESTIMATE FOR LOCATION 47

302007	GRADED AGGREGATE BASE COURSE, TYPE B	28.00	C.Y.
302008	GRADED AGGREGATE BASE COURSE, TYPE B, PATCHING	6.00	C.Y.
401800	BITUMINOUS CONCRETE, SUPERPAVE, TYPE C, 115 GYRATIONS, PG 64-22 (CARBONATE STONE)	350.00	TON
401821	BITUMINOUS CONCRETE, SUPERPAVE, TYPE C, 160 GYRATIONS, PG 64-22, PATCHING	48.00	TON
406001	BITUMINOUS CONCRETE PATCHING	384.00	SY-IN
701020	INTEGRAL PORTLAND CEMENT CONCRETE CURB & GUTTER, TYPE 1-8	50.00	L.F.
701021	INTEGRAL PORTLAND CEMENT CONCRETE CURB & GUTTER, TYPE 2	550.00	L.F.
705001	P.C.C. SIDEWALK, 4"	144.00	S.F.
705002	P.C.C. SIDEWALK, 6"	288.00	S.F.
708060	REPLACE DRAINAGE INLET GRATE(S)	2.00	EACH
708061	REPLACE DRAINAGE INLET FRAME(S)	1.00	EACH
743003	ARROWPANELS, TYPE C	5.00	EA-DY
743009	FURNISH AND MAINTAIN TRUCK MOUNTED ATTENUATOR, TYPE I	5.00	EA-DY
743050	FLAGGER, NEW CASTLE COUNTY, STATE	192.00	HOUR
743062	FLAGGER, NEW CASTLE COUNTY, STATE, OVERTIME	19.00	HOUR
758000	REMOVAL OF EXISTING PORTLAND CEMENTCONCRETE PAVEMENT, CURB, SIDEWALK, ETC.	181.00	S.Y.
760000	PAVEMENT - MILLING, HOT-MIX	4,800.00	SY-IN
760006	PAVEMENT - MILLING, HOT-MIX, 2" DEPTH	1,200.00	S.Y.
762001	SAW CUTTING, BITUMINOUS CONCRETE	962.00	L.F.
762002	SAW CUTTING, CONCRETE, FULL DEPTH	104.00	L.F.
908001	TOPSOIL (TON)	24.00	TON
908016	PERMANENT GRASS SEEDING, SUBDIVISION	72.00	S.Y.
908020	EROSION CONTROL BLANKET MULCH	72.00	S.Y.

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COMMUNITY TRANSPORTATION FUND, NORTH I, 2016

LOCATION 48 WOODHILL - WOODHILL BOULEVARD FROM WOODHILL ROAD TO SHIPLEY ROAD

LENGTH 41.1480 m 135.0000 L.F.

GENERAL IMPROVEMENTS

CURB AND GUTTER, 2" MILL AND OVERLAY

COMMENTS:

Unofficial

MATERIAL ESTIMATE FOR LOCATION 48

302007	GRADED AGGREGATE BASE COURSE, TYPE B	2.00	C.Y.
302008	GRADED AGGREGATE BASE COURSE, TYPE B, PATCHING	1.00	C.Y.
401800	BITUMINOUS CONCRETE, SUPERPAVE, TYPE C, 115 GYRATIONS, PG 64-22 (CARBONATE STONE)	75.00	TON
401821	BITUMINOUS CONCRETE, SUPERPAVE, TYPE C, 160 GYRATIONS, PG 64-22, PATCHING	3.00	TON
406001	BITUMINOUS CONCRETE PATCHING	26.00	SY-IN
701021	INTEGRAL PORTLAND CEMENT CONCRETE CURB & GUTTER, TYPE 2	40.00	L.F.
705001	P.C.C. SIDEWALK, 4"	9.00	S.F.
705002	P.C.C. SIDEWALK, 6"	18.00	S.F.
743003	ARROWPANELS, TYPE C	3.00	EA-DY
743009	FURNISH AND MAINTAIN TRUCK MOUNTED ATTENUATOR, TYPE I	3.00	EA-DY
743050	FLAGGER, NEW CASTLE COUNTY, STATE	32.00	HOUR
743062	FLAGGER, NEW CASTLE COUNTY, STATE, OVERTIME	3.00	HOUR
758000	REMOVAL OF EXISTING PORTLAND CEMENT CONCRETE PAVEMENT, CURB, SIDEWALK, ETC.	12.00	S.Y.
760006	PAVEMENT - MILLING, HOT-MIX, 2" DEPTH	600.00	S.Y.
762001	SAW CUTTING, BITUMINOUS CONCRETE	148.00	L.F.
762002	SAW CUTTING, CONCRETE, FULL DEPTH	16.00	L.F.
908001	TOPSOIL (TON)	2.00	TON
908016	PERMANENT GRASS SEEDING, SUBDIVISION	6.00	S.Y.
908020	EROSION CONTROL BLANKET MULCH	6.00	S.Y.

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COMMUNITY TRANSPORTATION FUND, NORTH I, 2016

LOCATION 49 WOODHILL - WOODHILL COURT FROM WOODHILL ROAD TO END

LENGTH 112.7760 m 370.0000 L.F.

GENERAL IMPROVEMENTS

CURB AND GUTTER, 2" MILL AND OVERLAY

COMMENTS:

Unofficial

MATERIAL ESTIMATE FOR LOCATION 49

302007	GRADED AGGREGATE BASE COURSE, TYPE B	17.00	C.Y.
302008	GRADED AGGREGATE BASE COURSE, TYPE B, PATCHING	3.00	C.Y.
401800	BITUMINOUS CONCRETE, SUPERPAVE, TYPE C, 115 GYRATIONS, PG 64-22 (CARBONATE STONE)	125.00	TON
401821	BITUMINOUS CONCRETE, SUPERPAVE, TYPE C, 160 GYRATIONS, PG 64-22, PATCHING	30.00	TON
406001	BITUMINOUS CONCRETE PATCHING	237.00	SY-IN
701021	INTEGRAL PORTLAND CEMENT CONCRETE CURB & GUTTER, TYPE 2	370.00	L.F.
705001	P.C.C. SIDEWALK, 4"	90.00	S.F.
705002	P.C.C. SIDEWALK, 6"	180.00	S.F.
710001	ADJUSTING AND REPAIRING EXISTING DRAINAGE INLET	1.00	EACH
710002	ADJUSTING AND REPAIRING EXISTING MANHOLE	2.00	EACH
743050	FLAGGER, NEW CASTLE COUNTY, STATE	112.00	HOUR
743062	FLAGGER, NEW CASTLE COUNTY, STATE, OVERTIME	11.00	HOUR
758000	REMOVAL OF EXISTING PORTLAND CEMENT CONCRETE PAVEMENT, CURB, SIDEWALK, ETC.	112.00	S.Y.
760006	PAVEMENT - MILLING, HOT-MIX, 2" DEPTH	1,000.00	S.Y.
762001	SAW CUTTING, BITUMINOUS CONCRETE	700.00	L.F.
762002	SAW CUTTING, CONCRETE, FULL DEPTH	70.00	L.F.
908001	TOPSOIL (TON)	15.00	TON
908016	PERMANENT GRASS SEEDING, SUBDIVISION	45.00	S.Y.
908020	EROSION CONTROL BLANKET MULCH	45.00	S.Y.

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COMMUNITY TRANSPORTATION FUND, NORTH I, 2016

LOCATION 50 WOODHILL - WOODHILL ROAD FROM WOODHILL BLVD TO END

LENGTH 73.1520 m 240.0000 L.F.

GENERAL IMPROVEMENTS

CURB AND GUTTER REPAIRS, 2" MILL AND OVERLAY

COMMENTS:

INCLUDES INTERSECTION W/ WOODHILL BLVD (HOUSE #129)

MATERIAL ESTIMATE FOR LOCATION 50

302007	GRADED AGGREGATE BASE COURSE, TYPE B	6.00	C.Y.
302008	GRADED AGGREGATE BASE COURSE, TYPE B, PATCHING	1.00	C.Y.
401800	BITUMINOUS CONCRETE, SUPERPAVE, TYPE C, 115 GYRATIONS, PG 64-22 (CARBONATE STONE)	85.00	TON
401821	BITUMINOUS CONCRETE, SUPERPAVE, TYPE C, 160 GYRATIONS, PG 64-22, PATCHING	10.00	TON
406001	BITUMINOUS CONCRETE PATCHING	77.00	SY-IN
701021	INTEGRAL PORTLAND CEMENT CONCRETE CURB & GUTTER, TYPE 2	120.00	L.F.
705001	P.C.C. SIDEWALK, 4"	29.00	S.F.
705002	P.C.C. SIDEWALK, 6"	58.00	S.F.
710002	ADJUSTING AND REPAIRING EXISTING MANHOLE	2.00	EACH
743050	FLAGGER, NEW CASTLE COUNTY, STATE	64.00	HOUR
743062	FLAGGER, NEW CASTLE COUNTY, STATE, OVERTIME	6.00	HOUR
758000	REMOVAL OF EXISTING PORTLAND CEMENT CONCRETE PAVEMENT, CURB, SIDEWALK, ETC.	36.00	S.Y.
760006	PAVEMENT - MILLING, HOT-MIX, 2" DEPTH	680.00	S.Y.
762001	SAW CUTTING, BITUMINOUS CONCRETE	280.00	L.F.
762002	SAW CUTTING, CONCRETE, FULL DEPTH	28.00	L.F.
908001	TOPSOIL (TON)	5.00	TON
908016	PERMANENT GRASS SEEDING, SUBDIVISION	15.00	S.Y.
908020	EROSION CONTROL BLANKET MULCH	15.00	S.Y.

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LOCATION 51 WOODHILL - WOODHILL ROAD FROM WOODHILL BLVD TO END

LENGTH 60.9600 m 200.0000 L.F.

GENERAL IMPROVEMENTS

CURB AND GUTTER, 2" MILL AND OVERLAY

COMMENTS:

INCLUDES INTERSECTION W/ WOODHILL CT (HOUSE #101)

MATERIAL ESTIMATE FOR LOCATION 51

302007	GRADED AGGREGATE BASE COURSE, TYPE B	5.00	C.Y.
302008	GRADED AGGREGATE BASE COURSE, TYPE B, PATCHING	1.00	C.Y.
401800	BITUMINOUS CONCRETE, SUPERPAVE, TYPE C, 115 GYRATIONS, PG 64-22 (CARBONATE STONE)	80.00	TON
401821	BITUMINOUS CONCRETE, SUPERPAVE, TYPE C, 160 GYRATIONS, PG 64-22, PATCHING	8.00	TON
406001	BITUMINOUS CONCRETE PATCHING	64.00	SY-IN
701021	INTEGRAL PORTLAND CEMENT CONCRETE CURB & GUTTER, TYPE 2	100.00	L.F.
705001	P.C.C. SIDEWALK, 4"	24.00	S.F.
705002	P.C.C. SIDEWALK, 6"	48.00	S.F.
710001	ADJUSTING AND REPAIRING EXISTING DRAINAGE INLET	1.00	EACH
710002	ADJUSTING AND REPAIRING EXISTING MANHOLE	1.00	EACH
743050	FLAGGER, NEW CASTLE COUNTY, STATE	48.00	HOUR
743062	FLAGGER, NEW CASTLE COUNTY, STATE, OVERTIME	5.00	HOUR
758000	REMOVAL OF EXISTING PORTLAND CEMENT CONCRETE PAVEMENT, CURB, SIDEWALK, ETC.	30.00	S.Y.
760006	PAVEMENT - MILLING, HOT-MIX, 2" DEPTH	640.00	S.Y.
762001	SAW CUTTING, BITUMINOUS CONCRETE	185.00	L.F.
762002	SAW CUTTING, CONCRETE, FULL DEPTH	20.00	L.F.
908001	TOPSOIL (TON)	4.00	TON
908016	PERMANENT GRASS SEEDING, SUBDIVISION	12.00	S.Y.
908020	EROSION CONTROL BLANKET MULCH	12.00	S.Y.

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COMMUNITY TRANSPORTATION FUND, NORTH I, 2016

LOCATION 52 WYNNWOOD - 2332 WYNNWOOD ROAD FROM 2332 WYNNWOOD ROAD TO
2332 WYNNWOOD ROAD

LENGTH
GENERAL IMPROVEMENTS
CURB AND GUTTER REPAIRS

COMMENTS:
CURB REPAIRS IN FRONT OF DRIVEWAY

MATERIAL ESTIMATE FOR LOCATION 52

302007	GRADED AGGREGATE BASE COURSE, TYPE B	1.00	C.Y.
302008	GRADED AGGREGATE BASE COURSE, TYPE B, PATCHING	1.00	C.Y.
401821	BITUMINOUS CONCRETE, SUPERPAVE, TYPE C, 160 GYRATIONS, PG 64-22, PATCHING	2.00	TON
406001	BITUMINOUS CONCRETE PATCHING	19.00	SY-IN
701021	INTEGRAL PORTLAND CEMENT CONCRETE CURB & GUTTER, TYPE 2	30.00	L.F.
705001	P.C.C. SIDEWALK, 4"	7.00	S.F.
705002	P.C.C. SIDEWALK, 6"	14.00	S.F.
743050	FLAGGER, NEW CASTLE COUNTY, STATE	32.00	HOUR
743062	FLAGGER, NEW CASTLE COUNTY, STATE, OVERTIME	3.00	HOUR
758000	REMOVAL OF EXISTING PORTLAND CEMENT CONCRETE PAVEMENT, CURB, SIDEWALK, ETC.	9.00	S.Y.
762001	SAW CUTTING, BITUMINOUS CONCRETE	111.00	L.F.
762002	SAW CUTTING, CONCRETE, FULL DEPTH	12.00	L.F.
908001	TOPSOIL (TON)	2.00	TON
908016	PERMANENT GRASS SEEDING, SUBDIVISION	6.00	S.Y.
908020	EROSION CONTROL BLANKET MULCH	6.00	S.Y.

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302007	GRADED AGGREGATE BASE COURSE, TYPE B	405.00	C.Y.
302008	GRADED AGGREGATE BASE COURSE, TYPE B, PATCHING	107.00	C.Y.
401511	REMOVE AND CONSTRUCT SPEED HUMP	154.00	L.F.
401800	BITUMINOUS CONCRETE, SUPERPAVE, TYPE C, 115 GYRATIONS, PG 64-22 (CARBONATE STONE)	8,400.00	TON
401819	BITUMINOUS CONCRETE, SUPERPAVE, BITUMINOUS CONCRETE BASE COURSE, 160 GYRATIONS, PG 64-22	69.00	TON
401821	BITUMINOUS CONCRETE, SUPERPAVE, TYPE C, 160 GYRATIONS, PG 64-22, PATCHING	1,461.00	TON
406001	BITUMINOUS CONCRETE PATCHING	21,141.00	SY-IN
701004	PORTLAND CEMENT CONCRETE VALLEY GUTTER, 8"	200.00	S.Y.
701020	INTEGRAL PORTLAND CEMENT CONCRETE CURB & GUTTER, TYPE 1-8	50.00	L.F.
701021	INTEGRAL PORTLAND CEMENT CONCRETE CURB & GUTTER, TYPE 2	7,650.00	L.F.
705001	P.C.C. SIDEWALK, 4"	1,852.00	S.F.
705002	P.C.C. SIDEWALK, 6"	3,704.00	S.F.
705007	SIDEWALK SURFACE DETECTABLE WARNING SYSTEM	570.00	S.F.
705009	CURB RAMP, TYPE 2, 3, AND/OR 4	11,400.00	S.F.
708060	REPLACE DRAINAGE INLET GRATE(S)	9.00	EACH
708061	REPLACE DRAINAGE INLET FRAME(S)	2.00	EACH
710001	ADJUSTING AND REPAIRING EXISTING DRAINAGE INLET	23.00	EACH
710002	ADJUSTING AND REPAIRING EXISTING MANHOLE	88.00	EACH
718000	ROOF DRAINS	10.00	L.F.
727502	ADJUSTING EXISTING MONUMENT BOX	1.00	EACH
743003	ARROWPANELS, TYPE C	20.00	EA-DY
743009	FURNISH AND MAINTAIN TRUCK MOUNTED ATTENUATOR, TYPE I	20.00	EA-DY
743050	FLAGGER, NEW CASTLE COUNTY, STATE	4,816.00	HOURL
743062	FLAGGER, NEW CASTLE COUNTY, STATE, OVERTIME	477.00	HOURL
748015	PERMANENT PAVEMENT STRIPING, SYMBOL/LEGEND ALKYD-THERMOPLAST IC	20.00	S.F.
750000	ADJUST WATER VALVE BOXES	17.00	EACH
758000	REMOVAL OF EXISTING PORTLAND CEMENTCONCRETE PAVEMENT, CURB, SIDEWALK, ETC.	2,515.00	S.Y.

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760000	PAVEMENT - MILLING, HOT-MIX	15,360.00	SY-IN
760006	PAVEMENT - MILLING, HOT-MIX, 2" DEPTH	62,030.00	S.Y.
760502	PAVEMENT MILLING, TAPER CUT	885.00	SY-IN
762001	SAW CUTTING, BITUMINOUS CONCRETE	16,258.00	L.F.
762002	SAW CUTTING, CONCRETE, FULL DEPTH	1,429.00	L.F.
763000	INITIAL EXPENSE	LUMP	SUM
763643	MAINTENANCE OF TRAFFIC, ALL INCLUSIVE	LUMP	SUM
908001	TOPSOIL (TON)	418.00	TON
908016	PERMANENT GRASS SEEDING, SUBDIVISION	1,254.00	S.Y.
908020	EROSION CONTROL BLANKET MULCH	1,254.00	S.Y.