THE STATE OF DELAWARE



DEPARTMENT OF TRANSPORTATION OFFICE OF TRANSPORTATION SOLUTIONS PLANS AND SPECIFICATIONS FOR

CONTRACT NUMBER-

T201203103

NORTH MAINTENANCE

FEDERAL AID NUMBER-

NONE

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CONTRACT TITLE-

COMMUNITY TRANSPORTATION FUND, NORTH III, 2012

PLANS PREPARED BY:

DESIGN TECHNICIAN

DATE RECOMMENDED:

12/13/2011

Mr C

PUBLIC WORKS ENGINEER:

DATE RECOMMENDED:

12/13/11

MAINTENANCE ENGINEER:

DATE RECOMMENDED:

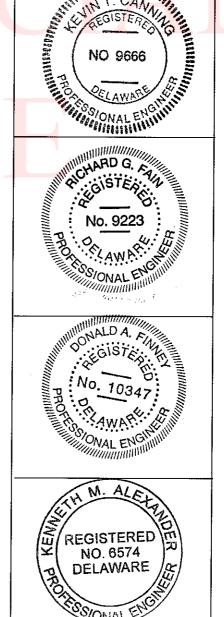
12/14/11

CONTRACTS ENGINEER:

DATE APPROVED:

12/16/11

DISTRICT ENGINEER:

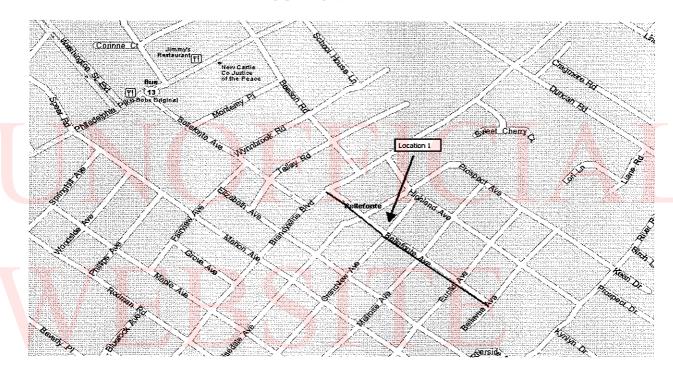


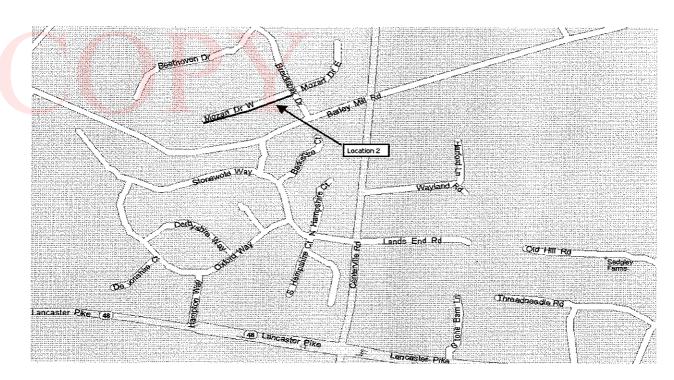
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VARIOUS LOCATIONS



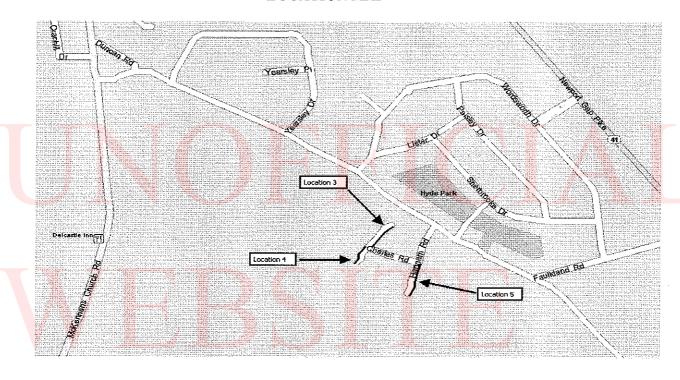


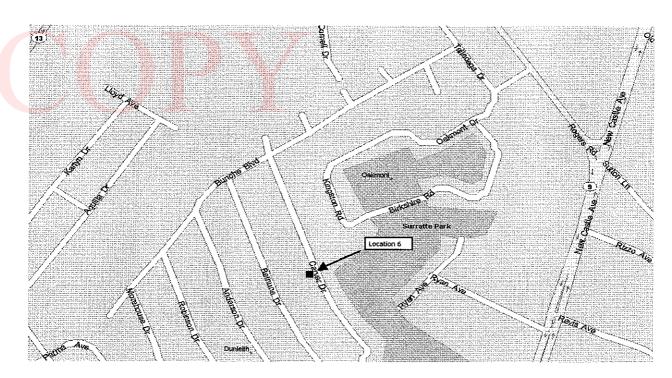
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VARIOUS LOCATIONS



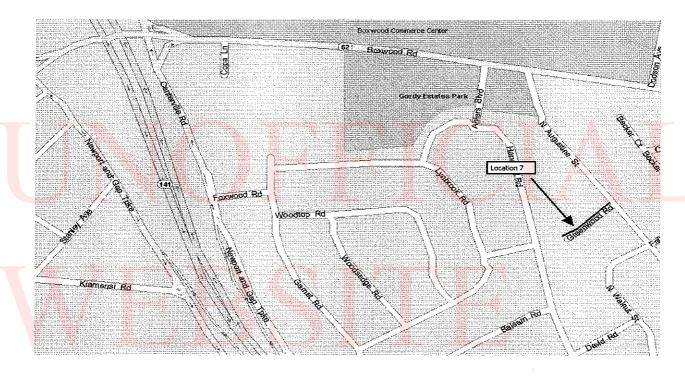


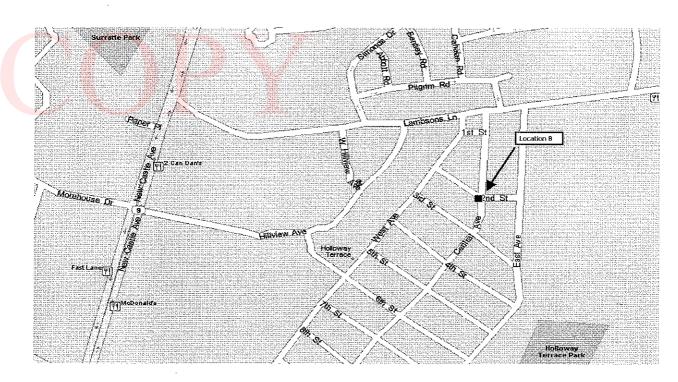
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VARIOUS LOCATIONS



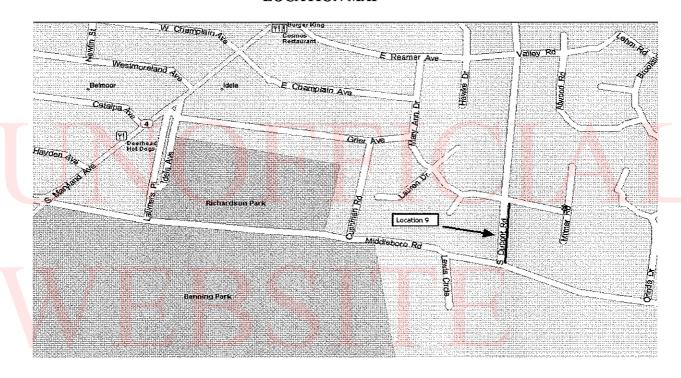


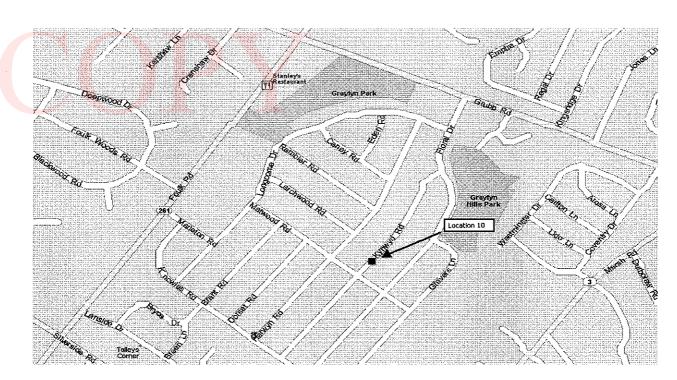
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VARIOUS LOCATIONS



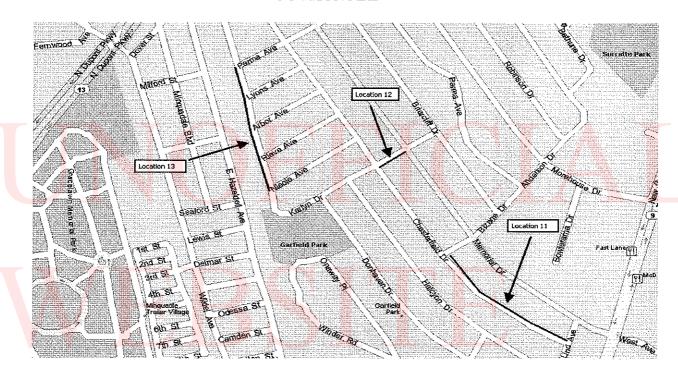


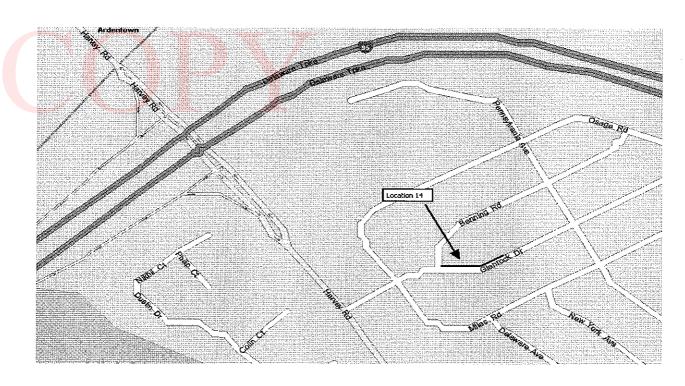
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GENERAL CONTRACT PLAN NOTES

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.
- 4. THE CONTRACTOR SHALL SUBMIT THE REQUIRED COPIES OF A DETAILED PROGRESS SCHEDULE (PSC) AS OUTLINED IN STANDARD SPECIFICATION 108.04 PRIOR TO OR AT THE PRECONSTRUCTION MEETING. DETAILS SHALL INCLUDE A DESCRIPTION OF EACH WORK ACTIVITY, THE PLANNED DAYS OF WORK, MULTIPLE CREWS OR SHIFTS, AND SCHEDULED WORKING HOURS. DURING THE CONTRACT, THE CONTRACT SHALL SUBMIT TWO-WEEK (OR AS REQUIRED) "LOOK AHEAD" SCHEDULES TO THE AREA ENGINEER/ MANAGER NO LATER THAN NOON OF EACH THURSDAY. FAILURE TO COMPLY WILL RESULT IN A SUSPENSION OF ALL CONTRACT WORK WITH TIME CHARGES CONTINUING TO BE ASSESSED.

 5. THE CONTRACTOR IS REMINDED THAT SECTION 105.07 OF THE STANDARD SPECIFICATIONS REQUIRES THE GENERAL CONTRACTOR TO HAVE A COMPETENT SUPERINTENDENT OR FOREMAN ON THE PROJECT AT ALL TIMES.

SECTION 300

6. SECTION 302007, GRADED AGGREGATE BASE COURSE TYPE B, SHALL BE USED AS BASE MATERIAL FOR NEW CONSTRUCTION OF P.C.C. CURBS, SIDEWALK, AND VALLEY GUTTER.

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.
- **8**. AS DIRECTED BY THE DELDOT MATERIALS AND RESEARCH SECTION, LIFT THICKNESS WILL CONFORM TO THE FOLLOWING MINIMUM AND MAXIMUM DEPTHS. TYPE C: 1.25" to 2.00"; TYPE B: 2.25" to 3.00"; BCBC: 3.00" to 6.00".

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COMMUNITY TRANSPORTATION FUND, NORTH III, 2012

GENERAL CONTRACT PLAN NOTES

SECTION 700

- 9. PAYMENT FOR SECTION 762001 SAW CUTTING HOT MIX SHALL BE A SEPARATE PAY ITEM WHETHER OR NOT AN OVERLAY IS A PART OF THE PROPOSED IMPROVEMENTS (WITH THE EXCEPTION OF BUTT JOINTS, DETAILS, AND NOTES TO THE CONTRARY).
- 10. BUTT JOINTS SHALL BE CONSTRUCTED AT ALL INTERSECTING HOT MIX 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 THE PAVEMENT OVERLAY SHALL BE RAMPED WITH HOT MIX TRM INCIDENTAL TO ITEM 761001 BUTT JOINT. ONLY HOT MIX WILL BE ALLOWED FOR THIS PURPOSE. BUTT JOINTS, IN FULL MILL AREAS SHALL BE INCIDENTAL TO THE PAVEMENT MILLING ITEM. ALL HOT MIX TRM SHALL BE REMOVED PRIOR TO THE PAVING OPERATION.
- 11. WHERE IMPROVEMENTS CALL FOR PLACEMENT OF A 3.5" (90 mm) HOT MIX OVERLAY IT SHALL BE INTERPRETED AS 2 SEPARATE LIFTS. (1.25" (30 mm) TYPE C HOT MIX PLACED OVER 2.25" (60 mm) OF TYPE B HOT MIX)
- 12. TAPER MILL IMPLIES PAVEMENT MILLING IN THE AREA OF FIXED STRUCTURES, SUCH AS CURBING, WHERE THE MILLED DEPTH AT THE STRUCTURE WILL BE THE DEPTH OF THE PROPOSED OVERLAY AND ZERO INCHES (ZERO mm) AT 6 FEET +/-(2 METERS +/-) AWAY FROM THE STRUCTURE. MILLED DEPTH COMPUTATION WILL BE THE AVERAGE OF THESE TWO.
- 13. MILLED MATERIAL, SHALL BECOME THE PROPERTY OF THE CONTRACTOR. LATERAL GRADE ADJUSTMENTS IN FULL WIDTH PAVEMENT MILLING OPERATIONS SHALL BE PAID UNDER ITEM 760000 OR 760006 WHICHEVER IS SPECIFIED OR DIRECTED BY THE ENGINEER AT THAT PARTICULAR LOCATION.
- 14. AFTER PAVEMENT MILLING, ALL RAISED EDGES OF MANHOLES, DRAINAGE INLETS, WATER VALVE BOXES, ETC. SHALL BE RAMPED WITH HOT MIX TRM AT A 20:1 OR FLATTER SLOPE INCIDENTAL TO ITEM 760507 PROFILE MILLING. ALL ADJUSTMENTS SHALL BE MADE NOT MORE THAN SEVEN (7) CALENDER DAYS PRIOR TO THE PLACEMENT OF THE FINAL COURSE OF HOT-MIX PAVEMENT UNLESS OTHERWISE DIRECTED BY THE ENGINEER. FAILURE TO COMPLY WILL RESULT IN A SUSPENSION OF ALL OTHER CONTRACT WORK WITH TIME CHARGES CONTINUING TO BE ASSESSED. PAVEMENT MILLING OR COLD PATCH MATERIAL WILL NOT BE ALLOWED FOR THIS PURPOSE. ALL HOT MIX TRM SHALL BE REMOVED PRIOR TO THE PAVING OPERATIONS.
- 15. 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. FAILURE TO COMPLY WILL RESULT IN A SUSPENSION OF ALL OTHER CONTRACT WORK WITH TIME CHARGES CONTINUING TO BE ASSESSED.
- 16. 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.
- 17. THE BASIS OF MEASURMENT AND PAYMENT FOR ITEM 760006 PAVEMENT MILLING, 2" (50 mm) DEPTH.

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COMMUNITY TRANSPORTATION FUND, NORTH III, 2012

GENERAL CONTRACT PLAN NOTES

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.

- 18. WHERE IMPROVEMENTS CALL FOR HOT MIX MILLING AND OVERLAY BOTH SHALL BE INTERPRETED AS A TWO-INCH DEPTH
- UNLESS NOTED DIFFERENTLY IN THE CONTRACT LOCATION OR OTHERWISE DIRECTED BY THE ENGINEER OR HIS DESIGNEE.
- 19. 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 708500 REPLACING CATCH BASIN GRATES. FINAL PAYMENT FOR REPLACED GREATES/ FRAMES SHALL NOT BE MADE UNTIL RECEIPT OF DELIVERED MATERIALS IS PRODUCED, SIGNED BY A DELDOT MAINTENANCE YARD SUPERVISOR.
- 20. 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 732500, 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.
- 21. CURB RAMPS SHALL BE INSTALLED, AT ALL INTERSECTIONS WHERE REQUIRED, IN COMPLIANCE WITH THE MOST CURRENT DELAWARE STANDARD CONSTRUCTION DETAILS AT ALL EXISTING SIDEWALK LOCATIONS WITHIN THE LIMITS OF THE PROJECT AS DIRECTED BY THE ENGINEER IN THE FIELD. PAYMENT SHALL BE INCLUDED IN THE UNIT PRICE BID FOR THE APPROPRIATE CURB RAMP TYPE.
- **22**. 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.
- 23. PERTAINING TO PCC & PATCHING, SAWCUTTING IS TO BE PERFORMED PRIOR TO THE REMOVAL OF HOT MIX UNLESS APPROVAL IS GIVEN BY THE ENGINEERS REPRESENTATIVE.
- **24**. 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.

INTERNATIONAL ("PIANO KEY") CROSSWALK SYMBOLS CONSISTENT WITH THE MOST CURRENT DELAWARE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES WILL BE PLACED AT ALL EXISTING

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GENERAL CONTRACT PLAN NOTES

CROSSWALK LOCATIONS OR AS DIRECTED BY THE ENGINEER. PAYMENT WILL BE UNDER THE APPLICABLE STRIPING ITEMS. 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 HOT MIX. 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, WHEN:

- A. EXISTING PAVEMENT IS MILLED AND HOT MIX WILL NOT BE PLACED THE SAME DAY;
- B. MORE THAN A SINGLE COURSE OF HOT MIX IS TO BE PLACED
- C. PERMANENT ROADWAY STRIPING CANNOT BE PLACED ON THE SAME DAY AS THE PLACEMENT OF THE FINAL COURSE OF HOTMIX.

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 748(xxx) - TEMPORARY MARKINGS, FOR CONDITIONS A .B & C LISTED ABOVE.

ALL TEMPORARY OR PERMANENT WARNING SIGNS WILL BE COVERED WITH RETROFLECTIVE FLORESCENT SHEETING ON ALUMINUM PANELS, ELIMINATING THE NEED FOR TYPE "B" WARNING LIGHTS ON THESE SIGNS. ALL OF THESE SIGNS SHALL BE MOUNTED ON BREAKAWAY POSTS SUCH THAT THE BOTTOM OF THE SIGN IS 7 FEET ABOVE THE GROUND UNLESS OTHERWISE AUTHORIZED BY THE ENGINEER.

- 25. 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.
- 26. WORK SHALL BE PERFORMED IN A MANNER THAT WILL REASONABLY PROVIDE THE LEAST PRACTICAL OBSTRUCTION TO ALL ROAD USERS, INCLUDING VEHICULAR, PEDESTRIAN, AND BICYCLE TRAFFIC, AND SHALL CONFORM WITH THE REQUIREMENTS OF THE MOST CURRENT DELAWARE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD) PART 6, HEREIN REFERRED TO AS THE TRAFFIC CONTROL MANUAL (INCLUDING REVISIONS IN EFFECT AT THE TIME OF ADVERTISEMENT FOR BIDS).

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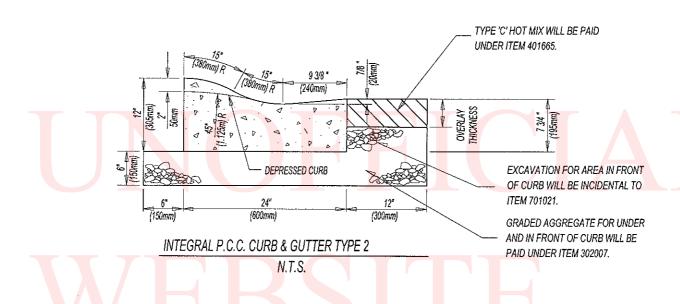
GENERAL CONTRACT PLAN NOTES

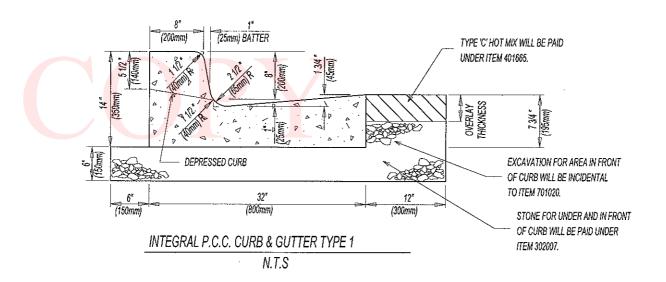
- 27. THE CONTRACTOR SHALL PROVIDE RESIDENTS WITH 24 HR. PRIOR WRITTEN NOTICE FOR ALL PHASES OF CONTRACT WORK INCLUDING BUT NOT LIMITED TO: SAWCUTTING FOR P.C.C. OPERATIONS, P.C.C. REMOVAL AND REPLACEMENT, PAVEMENT MILLING, AND PAVING. THIS NOTICE SHALL BE GIVEN TO ALL RESIDENTS WHOSE PROPERTY IS ADJACENT 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.
- 28. 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.
- 29. SEEDING IN SUBDIVISIONS SHALL CONFORM TO 734.03 OF THE STANDARD SPECIFICATIONS PERMANENT GRASS SEEDING SUBDIVISION CHART.
- **30**. LANE CLOSURES ON NUMBERED MAINTENANCE ROADS ARE PERMITTED ONLY BETWEEN THE HOURS OF 9:00 AM AND 3:00 PM.
- 31. BEFORE WORK IS DONE AT ANY LOCATION, THE APPROPRIATE DISTRICT SAFETY OFFICER MUST APPROVE THE MOT FOR THAT LOCATION. 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.
- 32. ANY ERRONEOUS MARKING WILL NOT BE PAID FOR AND SHALL BE CORRECTED IMMEDIATELY AT THE CONTRACTORS EXPENSE. ERRONEOUS MARKINGS OR SHADOWS THAT EXCEED ONE (1) INCH IN WIDTH SHALL BE REMOVED BY EITHER SAND OR WATER BLASTING. NO OTHER REMOVAL METHODS WILL BE ALLOWED. A FLAT BLACK PAINT OR DRIVEWAY SEALER SHALL BE APPLIED IN THE AREA OF THE REMOVED MARKING TO MASK THE REPAIR. ANY DAMAGE TO THE PAVEMENT CAUSED BY REMOVAL OF ERRONEOUS MARKINGS SHALL BE REPAIRED / REPLACED TO THE SATISFACRTION OF THE ENGINEER AT THE CONTRACTORS EXPENSE.
- 33. THE CONTRACTOR SHALL SUBMIT A TRAFFIC CONTROL PLAN, INCLUDING THE NECESSARY NCHRP 350 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.
- **34**. ALL TRAFFIC CONTROL DEVICES SHALL BE IN NEW OR REFURBISHED CONDITION AND SHALL BE IN COMPLIANCE WITH THE TRAFFIC CONTROL MANUAL AND NCHRP 350 AS DEFINED IN SECTION "A" OF THE MANUAL. THE DEVICES SHALL BE APROVED BY THE SAFETY SECTION PRIOR TO USE AND SHALL BE MAINTAINED IN GOOD CONDITION FOR THE DURATION OF THE CONTRACT.

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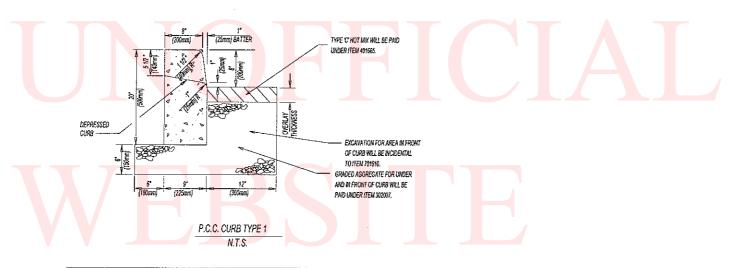
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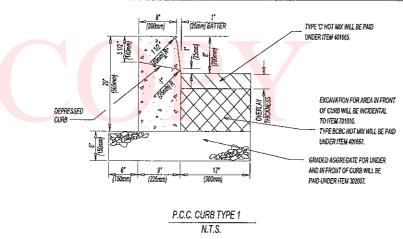




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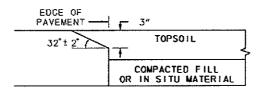
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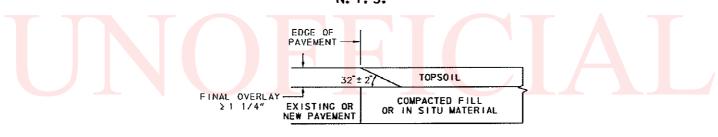


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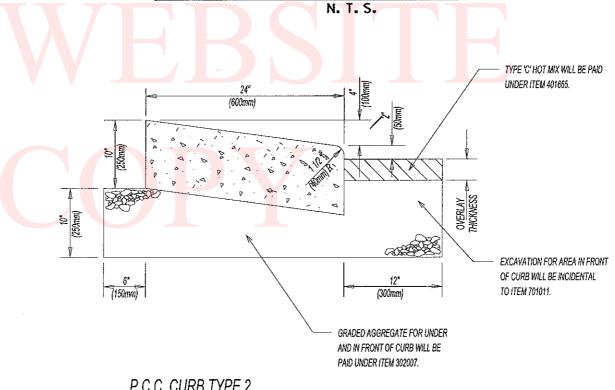
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CONCRETE PAVEMENTS N. T. S.



BITUMINOUS CONCRETE PAVEMENTS AND OVERLAYS



P.C.C. CURB TYPE 2

N.T.S.

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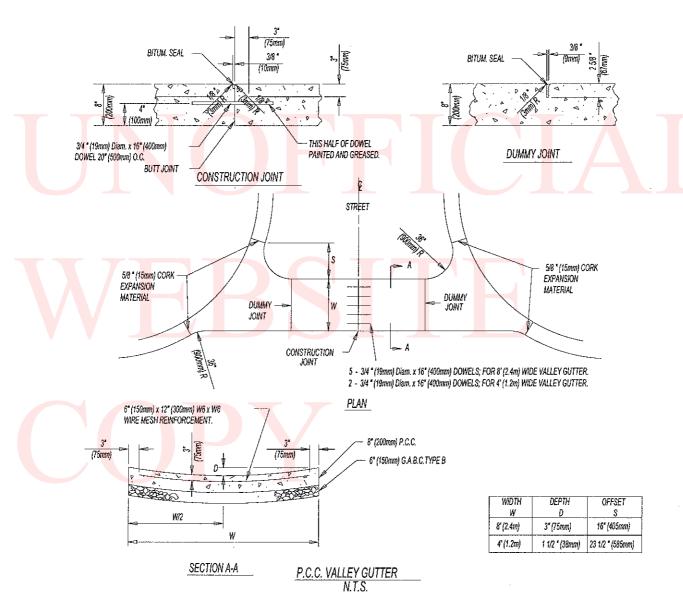
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NOTE: EXCAVATION FOR AREA IN FRONT OF CURB WILL BE INCIDENTAL TO ITEM 701004.

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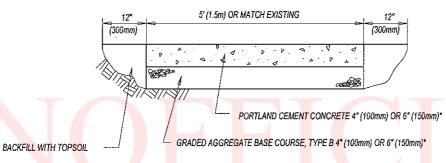
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P.C.C<mark>. SI</mark>DEWALK N.T.S.

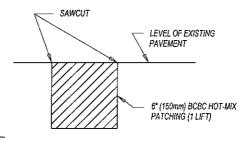
* NOTE: 6" (150mm) CONCRETE OVER 6" (150mm) GRADED AGGREGATE TO BE USED FOR DRIVEWAY PLACEMENT

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 HOT-MIX PATCHES UNLESS OTHERWISE SHOWN ON THE PLANS.

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

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



HOT-MIX PATCH DETAIL N.T.S.

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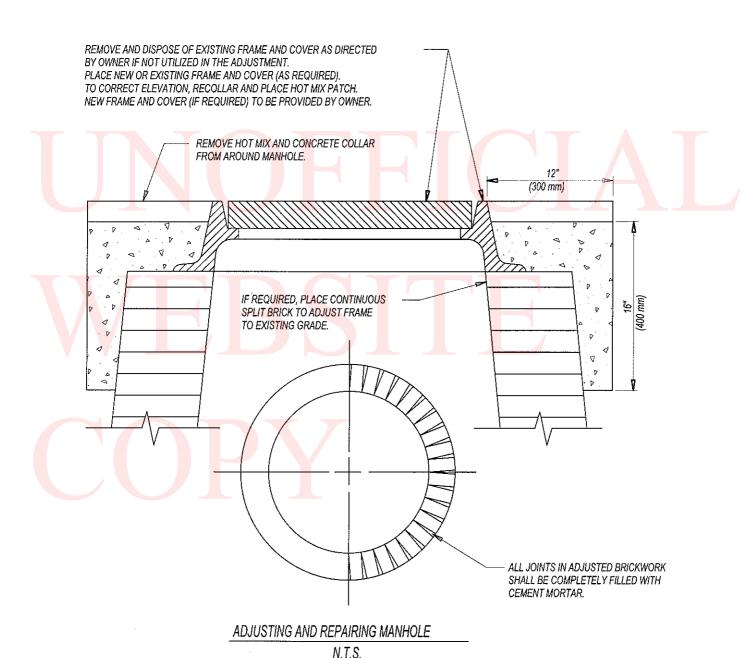
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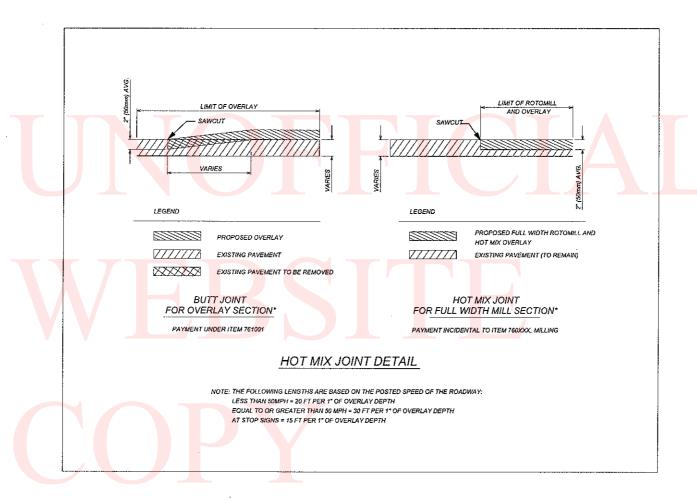
DETAILS SHEET



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

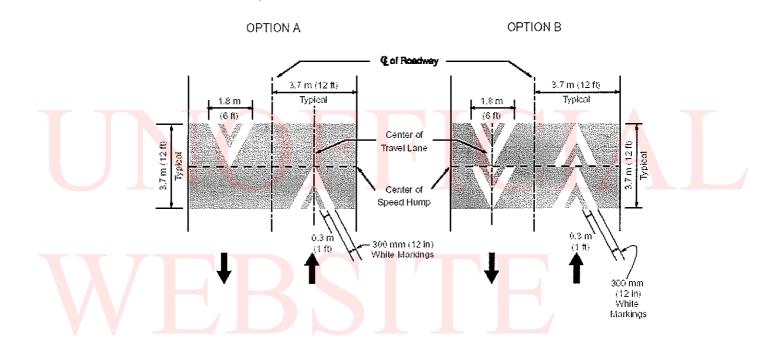
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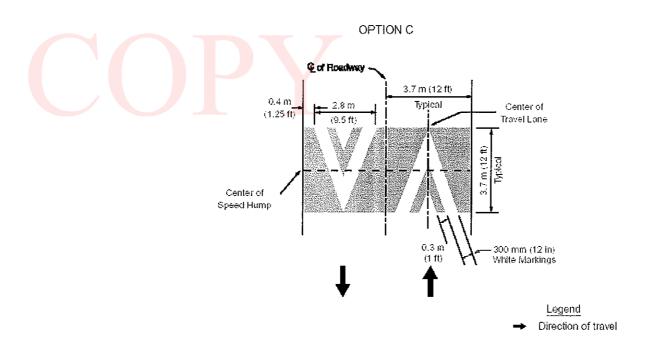
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DETAILS SHEET





CONTRACT NUMBER-

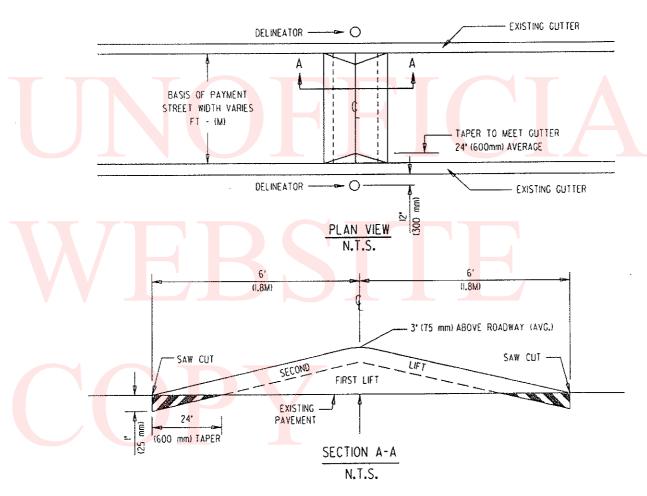
T201203103

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NORTH MAINTENANCE

VARIOUS LOCATIONS

DETAILS SHEET



NOTES: I, SAW CUT EXISTING PAVEMENT AND REMOVE I (25mm) x 24 (600mm) WEDGE.

- 2. PLACE FIRST LIFT AS SHOWN, 1/2 (38mm) TO 2' (50mm) AT &.
- 3. PLACE SECOND LIFT 2" (50mm).
- 4. TAPER SPEED HUMP APPROXIMATELY 2' (50mm) FROM FACE OF GUTTER EDGE, DO NOT BLOCK DRAINAGE.
- 5. PAINTED STRIPING TO CONSIST OF:
 - o) TWO 4' (100mm) PARALLEL STRIPES PERPENDICULAR TO TRAFFIC FLOW.
 - b) ONE 4' (100mm) 'X' ACROSS THE ENTIRE SPEED HUMP.
- C) HUMP SHALL BE TEMPORARILY OR PERMANENTLY STRIPED WITHIN 48 HOURS OF INSTALLATION. 6. INSTALL 2 DELINEATORS

REMOVE AND CONSTRUCT SPEED HUMP (401511)

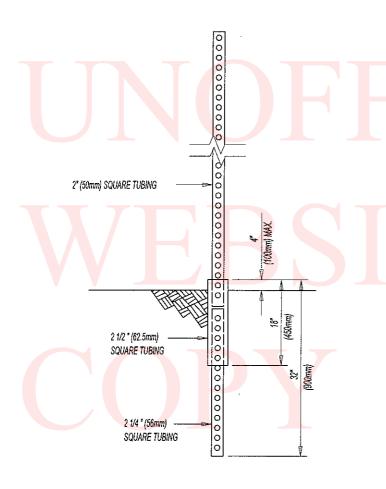
N.T.S.

(ALL WORK TO BE INCIDENTAL TO PRICE BID FOR SECTION 40151L)

DELAWARE DEPARTMENT OF TRANSPORTATION CONTRACT NUMBER- T201203103 PAGE 21 OF 38 NORTH MAINTENANCE VARIOUS LOCATIONS

DETAILS SHEET

SQUARE POST SHALL NOT BE LESS THAN 2 (50mm) X 2* (50mm) WITH A WALL THICKNESS OF 1/8 * (2.774mm).



1. SQUARE TUBES ARE TO BE FORMED FROM GALVANIZED SHEET STRUCTURAL (PHYSICAL) QUALITY, ASTM A446, GRADE A, COATING DESIGNATION G90, REGULAR SPANGLE, OR HOT ROLLED CARBON SHEET STEEL STRUCTURAL (PHYSICAL) QUALITY, ASTM A570, GRADE 33.

A. NOMINAL OUTSIDE DIMENSIONS, IN. (mm):

2" (50) x (50) +/- .008 (.20) 2 1/4 " (56) X 2 1/4" (56) +/- .01 (.25) 2 1/2" (62.5) X 2 1/2" (62.5) +/- .01 (.25)

B. ALL FOUR SIDES ARE TO HAVE EVENLY SPACED
7/16 * (11mm) DIAMETER HOLES ON 1* (25mm) CENTERS
THE ENTIRE LENGTH OF THE TUBE.

C. TOL<mark>ERANCE ON THE HOLE IS +/- .016 IN. (.4mm). TOLERANCE ON THE HOLE SPACING IS +/- .12 IN. (3mm) IN 20 FT (6M).</mark>

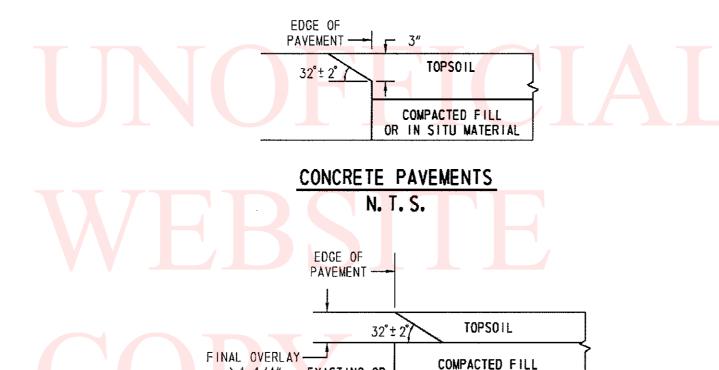
D. STA<mark>ND</mark>ARD CORNER RADIUS SHALL

BE .16 IN. (4mm) +/- .016 IN. (.4mm).

E. THE FASTENERS TO BE SUPPLIED UNDER THIS SPECIFICATION SHALL BE 5/16 * (8mm) GRADE 5 UNC CORNER BOLTS WITH CADMIUM OR ZINC PLATING. INSTALLATION OF SIGNS SHALL BE WITH 3/8 * (9.5mm) X 2 1/2 * (63.5mm) BOLT WITH LOCKNUT AND WASHER.

DELAWARE DEPARTMENT OF TRANSPORTATION					
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NORTH MAINTENANCE	VARIOUS LOCATIONS				

DETAILS SHEET



EXISTING OR

NEW PAVEMENT

21 1/4"

BITUMINOUS CONCRETE PAVEMENTS AND OVERLAYS
N. T. S.

OR IN SITU MATERIAL

SAFETY EDGE DETAIL

CONTRACT T201203103

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NORTH

COMMUNITY TRANSPORTATION FUND, NORTH III, 2012

MAINTENANCE

LOCATION 1 BELLEFONTE - BELLEFONTE AVE FROM BRANDYWINE BLVD TO BELLEVUE BLVD

LENGTH

385.572 m

1265 L.F.

GENERAL IMPROVEMENTS

CURB & GUTTER REPAIRS, 2" MILL AND OVERLAY

	MATERIAL ESTIMATE FOR LOCATION 1	
302007	GRADED AGGREGATE BASE COURSE, TYPE B	18.00 C.Y.
302008	GRADED AGGREGATE BASE COURSE, TYPE B, PATCHING	4.00 C.Y.
401644	SUPERPAVE, TYPE C HOT-MIX, 115 GYRATIONS, PG 64-22 (CARBONATE STONE)	415.00 TON
401665	SUPERPAVE, TYPE C HOT-MIX, 160 GYRATIONS, PG 64-22, PATCHING	30.00 TON
406001	HOT-MIX PATCHING	243.00 SY-IN
701021	IPCC CURB & GUTTER, TYPE 2	361.00 L.F.
705001	P.C.C. SIDEWALK, 4"	91.00 S.F.
705002	P.C.C. SIDEWALK, 6"	182.00 S.F.
705007	SIDEWALK SURFACE DETECTABLE WARNING SYSTEM	90.00 S.F.
705009	CURB RAMP, TYPE 2, 3, AND/OR 4	1,496.00 S.F.
708060	REPLACE DRAINAGE INLET GRATE(S)	8.00 EACH
708061	REPL <mark>AC</mark> E DRAINA <mark>GE</mark> IN <mark>LET FRAME(S)</mark>	2.00 EACH
710001	ADJUS <mark>TI</mark> NG AND <mark>RE</mark> PAI <mark>RIN</mark> G EXISTING D <mark>RAI</mark> NAGE INLET	7.00 EACH
710002	ADJUSTING AND REPAIRING EXISTING MANHOLE	3.00 EACH
732004	TOPSOIL (TON)	33.00 TON
734016	PERMANENT GRASS SEEDING, SUBDIVISION	99.00 S.Y.
735534	SOIL RETENTION BLANKET MULCH, TYPE 4	99.00 S.Y.
743050	** FLAGGER, NEW CASTLE COUNTY, STATE	187.00 HOUR
743062	** FLAGGER, NEW CASTLE COUNTY, STATE, OVERTIME	19.00 HOUR
750000	ADJUST WATER VALVE BOXES	5.00 EACH
758000	REMOVAL OF EXISTING PORTLAND CEMENTCONCRETE PAVEMENT, CURB, SIDEWALK, ETC.	115.00 S.Y.
760006	PAVEMENT - MILLING, HOT-MIX, 2" DEPTH	3,344.00 S.Y.
762001	SAW CUTTING, HOT MIX	507.00 L.F.
762002	SAW CUTTING, CONCRETE, FULL DEPTH	42.00 L.F.

^{**} DENOTES FIXED PRICE ITEM

CONTRACT T201203103

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NORTH

COMMUNITY TRANSPORTATION FUND, NORTH III, 2012

MAINTENANCE

LOCATION 2

BREIDABLIK - MOZART DRIVE WEST FROM BREIDABLIK DRIVE TO CUL-DE-SAC

LENGTH

274.32 m

900 L.F.

GENERAL IMPROVEMENTS

CURB & GUTTER REPAIRS, 2" MILL AND OVERLAY

	MATERIAL ESTIMATE FOR LOCATION 2	
302007	GRADED AGGREGATE BASE COURSE, TYPE B	19.00 C.Y.
302008	GRADED AGGREGATE BASE COURSE, TYPE B, PATCHING	4.00 C.Y.
401644	SUPERPAVE, TYPE C HOT-MIX, 115 GYRATIONS, PG 64-22 (CARBONATE STONE)	285.00 TON
401665	SUPERPAVE, TYPE C HOT-MIX, 160 GYRATIONS, PG 64-22, PATCHING	32.00 TON
406001	HOT-MIX PATCHING	256.00 SY-IN
701021	IPCC CURB & GUTTER, TYPE 2	380.00 L.F.
705001	P.C.C. SIDEWALK, 4"	96.00 S.F.
705002	P.C.C. SIDEWALK, 6"	192.00 S.F.
732004	TOPSOIL (TON)	16.00 TON
734016	PERMANENT GRASS SEEDING, SUBDIVISION	48.00 S.Y.
735534	SOIL RETENTION BLANKET MULCH, TYPE 4	48.00 S.Y.
74305 <mark>0</mark>	** FL <mark>AG</mark> GER, NE <mark>W C</mark> AST <mark>LE COUN</mark> TY, STATE	86.00 HOUR
743062	** FLAGGER, NEW CASTLE COUNTY, STA <mark>TE</mark> , OVERTIME	9.00 HOUR
758000	REMOVAL OF EXISTING PORTLAND CEMENTCONCRETE PAVEMENT, CURB, SIDEWALK, ETC.	121.00 S.Y.
760006	PAVEMENT - MILLING, HOT-MIX, 2" DEPTH	1,805.00 S.Y.
760502	PAVEMENT MILLING, TAPER CUT	385.00 SY-IN
762001	SAW CUTTING, HOT MIX	533.00 L.F.
762002	SAW CUTTING, CONCRETE, FULL DEPTH	44.00 L.F.

^{**} DENOTES FIXED PRICE ITEM

CONTRACT T201203103

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NORTH

COMMUNITY TRANSPORTATION FUND, NORTH III, 2012

MAINTENANCE

LOCATION 3

DUNCAN GLEN - CORA LOOP NORTH FROM CHARLES ROAD TO CUL-DE-SAC

LENGTH

103.632 m

340 L.F.

GENERAL IMPROVEMENTS

CURB & GUTTER REPAIRS, 2" MILL AND OVERLAY

	MATERIAL ESTIMATE FOR LOCATION 3	
302007	GRADED AGGREGATE BASE COURSE, TYPE B	7.00 C.Y.
302008	GRADED AGGREGATE BASE COURSE, TYPE B, PATCHING	1.00 C.Y.
401644	SUPERPAVE, TYPE C HOT-MIX, 115 GYRATIONS, PG 64-22 (CARBONATE STONE)	85.00 TON
401665	SUPERPAVE, TYPE C HOT-MIX, 160 GYRATIONS, PG 64-22, PATCHING	11.00 TON
406001	HOT-MIX PATCHING	90.00 SY-IN
701021	IPCC CURB & GUTTER, TYPE 2	130.00 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	20.00 S.F.
705009	CURB RAMP, TYPE 2, 3, AND/OR 4	332.00 S.F.
710001	ADJUSTING AND REPAIRING EXISTING DRAINAGE INLET	2.00 EACH
710002	ADJU <mark>ST</mark> ING AND REPAIRING EXISTING MANHOLE	2.00 EACH
732004	TOPSOIL (TON)	10.00 TON
734016	PERMANENT GRASS SEEDING, SUBDIVISION	30.00 S.Y.
735534	SOIL RETENTION BLANKET MULCH, TYPE 4	30.00 S.Y.
743050	** FLAGGER, NEW CASTLE COUNTY, STATE	72.00 HOUR
743062	** FLAGGER, NEW CASTLE COUNTY, STATE, OVERTIME	7.00 HOUR
758000	REMOVAL OF EXISTING PORTLAND CEMENTCONCRETE PAVEMENT, CURB, SIDEWALK, ETC.	42.00 S.Y.
760006	PAVEMENT - MILLING, HOT-MIX, 2" DEPTH	475.00 S.Y.
760502	PAVEMENT MILLING, TAPER CUT	385.00 SY-IN
762001	SAW CUTTING, HOT MIX	187.00 L.F.
762002	SAW CUTTING, CONCRETE, FULL DEPTH	16.00 L.F.

^{**} DENOTES FIXED PRICE ITEM

CONTRACT T201203103

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NORTH

COMMUNITY TRANSPORTATION FUND, NORTH III, 2012

MAINTENANCE

LOCATION 4

DUNCAN GLEN - CORA LOOP SOUTH FROM CHARLES ROAD TO CUL-DE-SAC

LENGTH

64.008 m

210 L.F.

GENERAL IMPROVEMENTS

CURB & GUTTER REPAIRS, 2" MILL AND OVERLAY

	MATERIAL ESTIMATE FOR LOCATION 4	
302007	GRADED AGGREGATE BASE COURSE, TYPE B	5.00 C.Y.
302008	GRADED AGGREGATE BASE COURSE, TYPE B, PATCHING	1.00 C.Y.
40164 4	SUPERPAVE, TYPE C HOT-MIX, 115 GYRATIONS, PG 64-22 (CARBONATE STONE)	71.00 TON
401665	SUPERPAVE, TYPE C HOT-MIX, 160 GYRATIONS, PG 64-22, PATCHING	8.00 TON
406001	HOT-MIX PATCHING	64.00 SY-IN
701021	IPCC CURB & GUTTER, TYPE 2	95.00 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	10.00 S.F.
705009	CURB RAMP, TYPE 2, 3, AND/OR 4	166.00 S.F.
710002	ADJUSTING AND REPAIRING EXISTING MANHOLE	1.00 EACH
73200 <mark>4</mark>	TOPSOIL (TON)	6.00 TON
734016	PERM <mark>AN</mark> ENT GR <mark>AS</mark> S SE <mark>ED</mark> ING, SUBDIVIS <mark>IO</mark> N	18.00 S.Y.
735534	SOIL RETENTION BLANKET MULCH, TYPE 4	18.00 S.Y.
743050	** FLAGGER, NEW CASTLE COUNTY, STATE	43.00 HOUR
743062	** FLAGGER, NEW CASTLE COUNTY, STATE, OVERTIME	4.00 HOUR
758000	REMOVAL OF EXISTING PORTLAND CEMENTCONCRETE PAVEMENT, CURB, SIDEWALK, ETC.	30.00 S.Y.
760006	PAVEMENT - MILLING, HOT-MIX, 2" DEPTH	475.00 S.Y.
760502	PAVEMENT MILLING, TAPER CUT	385.00 SY-IN
762001	SAW CUTTING, HOT MIX	133.00 L.F.
762002	SAW CUTTING, CONCRETE, FULL DEPTH	11.00 L.F.

^{**} DENOTES FIXED PRICE ITEM

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NORTH

COMMUNITY TRANSPORTATION FUND, NORTH III, 2012

MAINTENANCE

LOCATION 5

DUNCAN GLEN - HANNAM ROAD FROM CHARLES ROAD TO CUL-DE-SAC

LENGTH

96.012 m

315 L.F.

GENERAL IMPROVEMENTS

CURB AND GUTTER REPAIRS, 2" MILL AND OVERLAY

_		
	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.
401644	SUPERPAVE, TYPE C HOT-MIX, 115 GYRATIONS, PG 64-22 (CARBONATE STONE)	142.00 TON
401665	SUPERPAVE, TYPE C HOT-MIX, 160 GYRATIONS, PG 64-22, PATCHING	13.00 TON
406001	HOT-MIX PATCHING	102.00 SY-IN
701021	IPCC CURB & GUTTER, TYPE 2	150.00 L.F.
705001	P.C.C. SIDEWALK, 4"	39.00 S.F.
705002	P.C.C. SIDEWALK, 6"	78.00 S.F.
710001	ADJUSTING AND REPAIRING EXISTING DRAINAGE INLET	2.00 EACH
710002	ADJUSTING AND REPAIRING EXISTING MANHOLE	1.00 EACH
732004	TOPSOIL (TON)	6.00 TON
734016	PERM <mark>AN</mark> ENT GRASS SEEDING, SUBDIVISION	18.00 S.Y.
743050	** FLA <mark>GGER, NEW C</mark> AST <mark>LE</mark> COUNTY, STA <mark>TE</mark>	57.00 HOUR
743062	** FLAGGER, NEW CASTLE COUNTY, STATE, OVERTIME	5.00 HOUR
758000	REMOVAL OF EXISTING PORTLAND CEMENTCONCRETE PAVEMENT, CURB, SIDEWALK, ETC.	48.00 S.Y.
760006	PAVEMENT - MILLING, HOT-MIX, 2" DEPTH	665.00 S.Y.
760502	PAVEMENT MILLING, TAPER CUT	385.00 SY-IN
762001	SAW CUTTING, HOT MIX	213.00 L.F.
762002	SAW CUTTING, CONCRETE, FULL DEPTH	18.00 L.F.

^{**} DENOTES FIXED PRICE ITEM

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NORTH

COMMUNITY TRANSPORTATION FUND, NORTH III, 2012

MAINTENANCE

LOCATION 6

DUNLEITH - CARVER DRIVE FROM HOUSE # 448 TO HOUSE # 450

LENGTH

36.576 m

120 L.F.

GENERAL IMPROVEMENTS

REPLACE VALLEY GUTTER, 2" MILL AND OVERLAY

	MATERIAL ESTIMATE FOR LOCATION 6	
302007	GRADED AGGREGATE BASE COURSE, TYPE B	16.00 C.Y.
302008	GRADED AGGREGATE BASE COURSE, TYPE B, PATCHING	4.00 C.Y.
401644	SUPERPAVE, TYPE C HOT-MIX, 115 GYRATIONS, PG 64-22 (CARBONATE STONE)	33.00 TON
401665	SUPERPAVE, TYPE C HOT-MIX, 160 GYRATIONS, PG 64-22, PATCHING	12.00 TON
406001	HOT-MIX PATCHING	198.00 SY-IN
701004	PORTLAND CEMENT CONCRETE VALLEY GUTTER, 8"	50.00 S.Y.
701021	IPCC CURB & GUTTER, TYPE 2	95.00 L.F.
705001	P.C.C. SIDEWALK, 4"	24.00 S.F.
705002	P.C.C. SIDEWALK, 6"	48.00 S.F.
732004	TOPSOIL (TON)	4.00 TON
734016	PERMANENT GRASS SEEDING, SUBDIVISION	12.00 S.Y.
73553 <mark>4</mark>	SOIL RETENTION BLANKET MULCH, TYPE 4	12.00 S.Y.
743050	** FLA <mark>G</mark> GER, NE <mark>W C</mark> AST <mark>LE</mark> COUNTY, STA <mark>TE</mark>	43.00 HOUR
743062	** FLAGGER, NEW CASTLE COUNTY, STATE, OVERTIME	4.00 HOUR
758000	REMOVAL OF EXISTING PORTLAND CEMENTCONCRETE PAVEMENT, CURB, SIDEWALK, ETC.	30.00 S.Y.
760006	PAVEMENT - MILLING, HOT-MIX, 2" DEPTH	233.00 S.Y.
762001	SAW CUTTING, HOT MIX	490.00 L.F.
762002	SAW CUTTING, CONCRETE, FULL DEPTH	53.00 L.F.

^{**} DENOTES FIXED PRICE ITEM

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NORTH

COMMUNITY TRANSPORTATION FUND, NORTH III, 2012

MAINTENANCE

LOCATION 7

GORDY ESTATES - GREENWOOD ROAD FROM AUGUSTINE ST TO END

LENGTH

85.344 m

280 L.F.

GENERAL IMPROVEMENTS

CURB & GUTTER REPAIRS, 2" MILL AND OVERLAY

	MATERIAL ESTIMATE FOR LOCATION 7	
302007	GRADED AGGREGATE BASE COURSE, TYPE B	4.00 C.Y.
302008	GRADED AGGREGATE BASE COURSE, TYPE B, PATCHING	1.00 C.Y.
401644	SUPERPAVE, TYPE C HOT-MIX, 115 GYRATIONS, PG 64-22 (CARBONATE STONE)	86.00 TON
401665	SUPERPAVE, TYPE C HOT-MIX, 160 GYRATIONS, PG 64-22, PATCHING	6.00 TON
406001	HOT-MIX PATCHING	51.00 SY-IN
701021	IPCC CURB & GUTTER, TYPE 2	75.00 L.F.
705001	P.C.C. SIDEWALK, 4"	20.00 S.F.
705002	P.C.C. SIDEWALK, 6"	40.00 S.F.
705007	SIDEWALK SURFACE DETECTABLE WARNING SYSTEM	20.00 S.F.
705009	CURB RAMP, TYPE 2, 3, AND/OR 4	333.00 S.F.
710002	ADJUSTING AND REPAIRING EXISTING MANHOLE	2.00 EACH
72750 <mark>2</mark>	ADJU <mark>STI</mark> NG EXIST <mark>IN</mark> G M <mark>ONUMEN</mark> T BOX	1.00 EACH
732004	TOPSOIL (TON)	7.00 TON
734016	PERMANENT GRASS SEEDING, SUBDIVISION	21.00 S.Y.
735534	SOIL RETENTION BLANKET MULCH, TYPE 4	21.00 S.Y.
743050	** FLAGGER, NEW CASTLE COUNTY, STATE	43.00 HOUR
743062	** FLAGGER, NEW CASTLE COUNTY, STATE, OVERTIME	4.00 HOUR
758000	REMOVAL OF EXISTING PORTLAND CEMENTCONCRETE PAVEMENT, CURB, SIDEWALK, ETC.	24.00 S.Y.
760006	PAVEMENT - MILLING, HOT-MIX, 2" DEPTH	665.00 S.Y.
762001	SAW CUTTING, HOT MIX	107.00 L.F.
762002	SAW CUTTING, CONCRETE, FULL DEPTH	9.00 L.F.

^{**} DENOTES FIXED PRICE ITEM

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NORTH

COMMUNITY TRANSPORTATION FUND, NORTH III, 2012

MAINTENANCE

LOCATION 8

HOLLOWAY TERRACE - CENTRAL AVENUE FROM INTERSECTION WITH 2ND

AVENUE

LENGTH

30.48 m

100 L.F.

GENERAL IMPROVEMENTS

2" MILL AND OVERLAY ONLY

	MATERIAL ESTIMATE FOR LOCATION 8	
302008	GRADED AGGREGATE BASE COURSE, TYPE B, PATCHING	2.00 C.Y.
401644	SUPERPAVE, TYPE C HOT-MIX, 115 GYRATIONS, PG 64-22 (CARBONATE STONE)	33.00 TON
401665	SUPERPAVE, TYPE C HOT-MIX, 160 GYRATIONS, PG 64-22, PATCHING	2.00 TON
406001	HOT-MIX PATCHING	24.00 SY-IN
710002	ADJUSTING AND REPAIRING EXISTING MANHOLE	2.00 EACH
727502	ADJUSTING EXISTING MONUMENT BOX	1.00 EACH
743050	** FLAGGER, NEW CASTLE COUNTY, STATE	21.00 HOUR
743062	** FLAGGER, NEW CASTLE COUNTY, STATE, OVERTIME	2.00 HOUR
750000	ADJUST WATER VALVE BOXES	2.00 EACH
760006	PAVEMENT - MILLING, HOT-MIX, 2" DEPTH	266.00 S.Y.
762001	SAW CUTTING, HOT MIX	12.00 L.F.

^{**} DENOTES FIXED PRICE ITEM

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NORTH

COMMUNITY TRANSPORTATION FUND, NORTH III, 2012

MAINTENANCE

LOCATION 9

MIDDLEBORO MANOR - S. DUPONT ROAD FROM MIDDLEBORO ROAD TO MARY

ANNE DRIVE

LENGTH

GENERAL IMPROVEMENTS

ASPHALT SPEED HUMPS

COMMENTS:

MATERIAL ESTIMATE FOR LOCATION 9

401511

REMOVE AND CONSTRUCT SPEED HUMP

36.00 L.F.

743050

** FLAGGER, NEW CASTLE COUNTY, STATE

14.00 HOUR

743062

** FLAGGER, NEW CASTLE COUNTY, STATE, OVERTIME

2.00 HOUR

** DENOTES FIXED PRICE ITEM

COPY

CONTRACT T201203103

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NORTH

COMMUNITY TRANSPORTATION FUND, NORTH III, 2012

MAINTENANCE

LOCATION 10

NORTH GRAYLYN CREST - HARWYN ROAD FROM HOUSE # 2014

LENGTH

6.096 m

20 L.F.

GENERAL IMPROVEMENTS

CURB AND GUTTER REPAIRS

	MATERIAL ESTIMATE FOR LOCATION 10	
302007	GRADED AGGREGATE BASE COURSE, TYPE B	1.00 C.Y.
302008	GRADED AGGREGATE BASE COURSE, TYPE B, PATCHING	1.00 C.Y.
401665	SUPERPAVE, TYPE C HOT-MIX, 160 GYRATIONS, PG 64-22, PATCHING	1.00 TON
406001	HOT-MIX PATCHING	12.00 SY-IN
701021	IPCC CURB & GUTTER, TYPE 2	20.00 L.F.
705001	P.C.C. SIDEWALK, 4"	5.00 S.F.
705002	P.C.C. SIDEWALK, 6"	10.00 S.F.
710001	ADJUSTING AND REPAIRING EXISTING DRAINAGE INLET	1.00 EACH
732004	TOPSOIL (TON)	1.00 TON
734016	PERMANENT GRASS SEEDING, SUBDIVISION	3.00 S.Y.
735534	SOIL RETENTION BLANKET MULCH, TYPE 4	3.00 S.Y.
74305 <mark>0</mark>	** FLAGGER, NEW CASTLE COUNTY, STATE	14.00 HOUR
743062	** FLA <mark>GG</mark> ER, NE <mark>W C</mark> AST <mark>LE</mark> COUNTY, STA <mark>TE</mark> , OVERTIME	2.00 HOUR
758000	REMOVAL OF EXISTING PORTLAND CEMENTCONCRETE PAVEMENT, CURB, SIDEWALK, ETC.	5.00 S.Y.
762001	SAW CUTTING, HOT MIX	74.00 L.F.
762002	SAW CUTTING, CONCRETE, FULL DEPTH	8.00 L.F.

^{**} DENOTES FIXED PRICE ITEM

CONTRACT T201203103

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NORTH

COMMUNITY TRANSPORTATION FUND, NORTH III, 2012

MAINTENANCE

LOCATION 11

OVERVIEW GARDENS - CHESTERFIELD DRIVE FROM BIZARRE DRIVE TO LIND AVENUE

LENGTH

408.432 m

1340 L.F.

GENERAL IMPROVEMENTS

CURB AND GUTTER REPAIRS, 2" MILL AND OVERLAY

COMMENTS:

Curb repairs at House # 42 are included in this estimate.

	MATERIAL ESTIMATE FOR LOCATION 11	
302007	GRADED AGGREGATE BASE COURSE, TYPE B	38.00 C.Y.
302008	GRADED AGGREGATE BASE COURSE, TYPE B, PATCHING	13.00 C.Y.
401511	REMOVE AND CONSTRUCT SPEED HUMP	66.00 L.F.
401644	SUPERPAVE, TYPE C HOT-MIX, 115 GYRATIONS, PG 64-22 (CARBONATE STONE)	427.00 TON
401665	SUPERPAVE, TYPE C HOT-MIX, 160 GYRATIONS, PG 64-22, PATCHING	56.00 TON
401667	SUPERPAVE, BITUMINOUS CONCRETE BASECOURSE, 160 GYRATIONS, PG 64-22 PATCHING	29.00 TON
406001	HOT-MIX PATCHING	534.00 SY-IN
701004	PORTLAND CEMENT CONCRETE VALLEY GUTTER, 8"	50.00 S.Y.
701021	IPCC CURB & GUTTER, TYPE 2	570.00 L.F.
705001	P.C.C. SIDEWALK, 4"	144.00 S.F.
705002	P.C.C. SIDEWALK, 6"	288.00 S.F.
70500 <mark>7</mark>	SIDE <mark>WA</mark> LK SURF <mark>AC</mark> E D <mark>ET</mark> ECTABLE WARNING SYSTEM	60.00 S.F.
705009	CURB RAMP, TYPE 2, 3, AND/OR 4	997.00 S.F.
708060	REPLACE DRAINAGE INLET GRATE(S)	5.00 EACH
732004	TOPSOIL (TON)	39.00 TON
734016	PERMANENT GRASS SEEDING, SUBDIVISION	117.00 S.Y.
743050	** FLAGGER, NEW CASTLE COUNTY, STATE	172.00 HOUR
743062	** FLAGGER, NEW CASTLE COUNTY, STATE, OVERTIME	17.00 HOUR
758000	REMOVAL OF EXISTING PORTLAND CEMENTCONCRETE PAVEMENT, CURB, SIDEWALK, ETC.	231.00 S.Y.
760006	PAVEMENT - MILLING, HOT-MIX, 2" DEPTH	3,420.00 S,Y.
762001	SAW CUTTING, HOT MIX	1,300.00 L.F.
762002	SAW CUTTING, CONCRETE, FULL DEPTH	160.00 L.F.

^{**} DENOTES FIXED PRICE ITEM

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NORTH

COMMUNITY TRANSPORTATION FUND, NORTH III, 2012

MAINTENANCE

LOCATION 12

OVERVIEW GARDENS - KARLYN DRIVE (INCLUDES HOUSE #'S 4 & 6) FROM MEMORIAL DRIVE TO CHESTERFIELD DRIVE

LENGTH

59.436 m

195 L.F.

GENERAL IMPROVEMENTS

CURB & GUTTER REPAIRS, 2" MILL AND OVERLAY

	MATERIAL ESTIMATE FOR LOCATION 12	
302007	GRADED AGGREGATE BASE COURSE, TYPE B	5.00 C.Y.
302008	GRADED AGGREGATE BASE COURSE, TYPE B, PATCHING	1.00 C.Y.
401644	SUPERPAVE, TYPE C HOT-MIX, 115 GYRATIONS, PG 64-22 (CARBONATE STONE)	57.00 TON
401665	SUPERPAVE, TYPE C HOT-MIX, 160 GYRATIONS, PG 64-22, PATCHING	8.00 TON
406001	HOT-MIX PATCHING	64.00 SY-IN
701021	IPCC CURB & GUTTER, TYPE 2	95.00 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	40.00 S.F.
705009	CURB RAMP, TYPE 2, 3, AND/OR 4	665.00 S.F.
732004	TOPSOIL (TON)	12.00 TON
73401 <mark>6</mark>	PERM <mark>AN</mark> ENT GRA <mark>SS</mark> SE <mark>EDING, S</mark> UBDIVI <mark>SION</mark>	36.00 S.Y.
735534	SOIL RETENTION BLANKET MULCH, TYPE 4	36.00 S.Y.
743050	** FLAGGER, NEW CASTLE COUNTY, STATE	43.00 HOUR
743062	** FLAGGER, NEW CASTLE COUNTY, STATE, OVERTIME	4.00 HOUR
758000	REMOVAL OF EXISTING PORTLAND CEMENTCONCRETE PAVEMENT, CURB, SIDEWALK, ETC.	30.00 S.Y.
760006	PAVEMENT - MILLING, HOT-MIX, 2" DEPTH	456.00 S.Y.
762001	SAW CUTTING, HOT MIX	133.00 L.F.
762002	SAW CUTTING, CONCRETE, FULL DEPTH	13.00 L.F.

^{**} DENOTES FIXED PRICE ITEM

CONTRACT T201203103

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NORTH

COMMUNITY TRANSPORTATION FUND, NORTH III, 2012

MAINTENANCE

LOCATION 13

OVERVIEW GARDENS - KARLYN DRIVE FROM NIEOLE AVENUE TO PARMA AVENUE

LENGTH

348.996 m

1145 L.F.

GENERAL IMPROVEMENTS

CURB & GUTTER REPAIRS, 2" MILL AND OVERLAY

	MATERIAL ESTIMATE FOR LOCATION 13	
302007	GRADED AGGREGATE BASE COURSE, TYPE B	40.00 C.Y.
302008	GRADED AGGREGATE BASE COURSE, TYPE B, PATCHING	13.00 C.Y.
401511	REMOVE AND CONSTRUCT SPEED HUMP	44.00 L.F.
401644	SUPERPAVE, TYPE C HOT-MIX, 115 GYRATIONS, PG 64-22 (CARBONATE STONE)	332.00 TON
401665	SUPERPAVE, TYPE C HOT-MIX, 160 GYRATIONS, PG 64-22, PATCHING	60.00 TON
401667	SUPERPAVE, BITUMINOUS CONCRETE BASECOURSE, 160 GYRATIONS, PG 64-22 PATCHING	24.00 TON
406001	HOT-MIX PATCHING	566.00 SY-IN
701004	PORTLAND CEMENT CONCRETE VALLEY GUTTER, 8"	50.00 S.Y.
701021	IPCC CURB & GUTTER, TYPE 2	615.00 L.F.
705001	P.C.C. SIDEWALK, 4"	156.00 S.F.
705002	P.C.C. SIDEWALK, 6"	312.00 S.F.
705007	SIDEWALK SURFACE DETECTABLE WARNING SYSTEM	150.00 S.F.
705009	CURB RAMP, TYPE 2, 3, AND/OR 4	2,493.00 S.F.
732004	TOPSOIL (TON)	60.00 TON
734016	PERMANENT GRASS SEEDING, SUBDIVISION	180.00 S.Y.
735534	SOIL RETENTION BLANKET MULCH, TYPE 4	180.00 S.Y.
743050	** FLAGGER, NEW CASTLE COUNTY, STATE	201.00 HOUR
743062	** FLAGGER, NEW CASTLE COUNTY, STATE, OVERTIME	19.00 HOUR
758000	REMOVAL OF EXISTING PORTLAND CEMENTCONCRETE PAVEMENT, CURB, SIDEWALK, ETC.	246.00 S.Y.
760006	PAVEMENT - MILLING, HOT-MIX, 2" DEPTH	2,660.00 S.Y.
762001	SAW CUTTING, HOT MIX	1,027.00 L.F.
762002	SAW CUTTING, CONCRETE, FULL DEPTH	77.00 L.F.

^{**} DENOTES FIXED PRICE ITEM

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NORTH

COMMUNITY TRANSPORTATION FUND, NORTH III, 2012

MAINTENANCE

LOCATION 14

RADNOR GREEN - GLENROCK DRIVE FROM DRIVEWAY @ HOUSE # 15 TO BENNING ROAD

LENGTH

141.732 m

465 L.F.

GENERAL IMPROVEMENTS

CURB & GUTTER REPAIRS, 2" MILL AND OVERLAY

MATERIAL ESTIMATE FOR LOCATION 14	
GRADED AGGREGATE BASE COURSE, TYPE B	7.00 C.Y.
GRADED AGGREGATE BASE COURSE, TYPE B, PATCHING	1.00 C.Y.
REMOVE AND CONSTRUCT SPEED HUMP	32.00 L.F.
SUPERPAVE, TYPE C HOT-MIX, 115 GYRATIONS, PG 64-22 (CARBONATE STONE)	199.00 TON
SUPERPAVE, TYPE C HOT-MIX, 160 GYRATIONS, PG 64-22, PATCHING	11.00 TON
HOT-MIX PATCHING	90.00 SY-IN
IPCC CURB & GUTTER, TYPE 2	130.00 L.F.
P.C.C. SIDEWALK, 4"	34.00 S.F.
P.C.C. SIDEWALK, 6"	68.00 S.F.
SIDEWALK SURFACE DETECTABLE WARNING SYSTEM	30.00 S.F.
CURB RAMP, TYPE 2, 3, AND/OR 4	498.00 S.F.
ADJU <mark>ST</mark> ING AND REPAIRING EXISTING MANHOLE	1.00 EACH
TOPSOIL (TON)	12.00 TON
PERMANENT GRASS SEEDING, SUBDIVISION	36.00 S.Y.
SOIL RETENTION BLANKET MULCH, TYPE 4	36.00 S.Y.
** FLAGGER, NEW CASTLE COUNTY, STATE	86.00 HOUR
** FLAGGER, NEW CASTLE COUNTY, STATE, OVERTIME	9.00 HOUR
REMOVAL OF EXISTING PORTLAND CEMENTCONCRETE PAVEMENT, CURB, SIDEWALK, ETC.	42.00 S.Y.
PAVEMENT - MILLING, HOT-MIX, 2" DEPTH	1,596.00 S.Y.
SAW CUTTING, HOT MIX	218.00 L.F.
SAW CUTTING, CONCRETE, FULL DEPTH	26.00 L.F.
	GRADED AGGREGATE BASE COURSE, TYPE B GRADED AGGREGATE BASE COURSE, TYPE B, PATCHING REMOVE AND CONSTRUCT SPEED HUMP SUPERPAVE, TYPE C HOT-MIX, 115 GYRATIONS, PG 64-22 (CARBONATE STONE) SUPERPAVE, TYPE C HOT-MIX, 160 GYRATIONS, PG 64-22, PATCHING HOT-MIX PATCHING IPCC CURB & GUTTER, TYPE 2 P.C.C. SIDEWALK, 4" P.C.C. SIDEWALK, 6" SIDEWALK SURFACE DETECTABLE WARNING SYSTEM CURB RAMP, TYPE 2, 3, AND/OR 4 ADJUSTING AND REPAIRING EXISTING MANHOLE TOPSOIL (TON) PERMANENT GRASS SEEDING, SUBDIVISION SOIL RETENTION BLANKET MULCH, TYPE 4 "* FLAGGER, NEW CASTLE COUNTY, STATE "* FLAGGER, NEW CASTLE COUNTY, STATE REMOVAL OF EXISTING PORTLAND CEMENTCONCRETE PAVEMENT, CURB, SIDEWALK, ETC. PAVEMENT - MILLING, HOT-MIX, 2" DEPTH SAW CUTTING, HOT MIX

^{**} DENOTES FIXED PRICE ITEM

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NORTH MAINTENANCE

COMMUNITY TRANSPORTATION FUND, NORTH III, 2012

CONTRACT QUANTITIES SUMMARY SHEET

302007	GRADED AGGREGATE BASE COURSE, TYPE B	168.00 C.Y.
302008	GRADED AGGREGATE BASE COURSE, TYPE B, PATCHING	48.00 C.Y.
401511	REMOVE AND CONSTRUCT SPEED HUMP	178.00 L.F.
401644	SUPERPAVE, TYPE C HOT-MIX, 115 GYRATIONS, PG 64-22 (CARBONATE STONE)	2,165.00 TON
40 <mark>16</mark> 65	SUPERPAVE, TYPE C HOT-MIX, 160 GYRATIONS, PG 64-22, PATCHING	250.00 TON
401667	SUPERPAVE, BITUMINOUS CONCRETE BASECOURSE, 160 GYRATIONS, PG 64-22 PATCHING	53.00 TON
406001	HOT-MIX PATCHING	2,294.00 SY-IN
701004	PORTLAND CEMENT CONCRETE VALLEY GUTTER, 8"	150.00 S.Y.
701021	IPCC CURB & GUTTER, TYPE 2	2,716.00 L.F.
705001	P.C.C. SIDEWALK, 4"	691.00 S.F.
705002	P.C.C. SIDEWALK, 6"	1,382.00 S.F.
705007	SIDEWALK SURFACE DETECTABLE WARNING SYSTEM	420.00 S.F.
705009	CURB RAMP, TYPE 2, 3, AND/OR 4	6,980.00 S.F.
708060	REPLACE DRAINAGE INLET GRATE(S)	13.00 EACH
708061	REPLACE DRAINAGE INLET FRAME(S)	2.00 EACH
7 <mark>10</mark> 001	ADJUSTING AND REPAIRING EXISTING DRAINAGE INLET	12.00 EACH
710002	ADJUSTING AND REPAIRING EXISTING MANHOLE	12.00 EACH
727502	ADJUSTING EXISTING MONUMENT BOX	2.00 EACH
732004	TOPSOIL (TON)	206.00 TON
734016	PERMANENT GRASS SEEDING, SUBDIVISION	618.00 S.Y.
735534	SOIL RETENTION BLANKET MULCH, TYPE 4	483.00 S.Y.
743050	** FLAGGER, NEW CASTLE COUNTY, STATE	1,082.00 HOUR
743062	** FLAGGER, NEW CASTLE COUNTY, STATE, OVERTIME	107.00 HOUR
750000	ADJUST WATER VALVE BOXES	7.00 EACH
758000	REMOVAL OF EXISTING PORTLAND CEMENTCONCRETE PAVEMENT, CURB, SIDEWALK, ETC.	964.00 S.Y.
760006	PAVEMENT - MILLING, HOT-MIX, 2" DEPTH	16,060.00 S.Y.
760502	PAVEMENT MILLING, TAPER CUT	1,540.00 SY-IN
762001	SAW CUTTING, HOT MIX	4,934.00 L.F.

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NORTH

COMMUNITY TRANSPORTATION FUND, NORTH III, 2012

MAINTENANCE

CONTRACT QUANTITIES SUMMARY SHEET

762002 SAW CUTTING, CONCRETE, FULL DEPTH

477.00 L.F.

763000 INITIAL EXPENSE

LUMP SUM

763643 MAINTENANCE OF TRAFFIC, ALL INCLUSIVE

LUMP SUM

** DENOTES FIXED PRICE ITEM

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