



DEPARTMENT OF TRANSPORTATION  
OFFICE OF TRANSPORTATION SOLUTIONS  
PLANS AND SPECIFICATIONS FOR

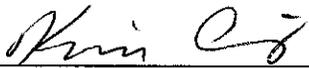
CONTRACT NUMBER- T201103103 NORTH MAINTENANCE

FEDERAL AID NUMBER- NONE

CONTRACT TITLE- COMMUNITY TRANSPORTATION FUND, NORTH III, 2011

  
PLANS PREPARED BY: DESIGN TECHNICIAN

DATE RECOMMENDED: 3/11/11

  
PUBLIC WORKS ENGINEER:

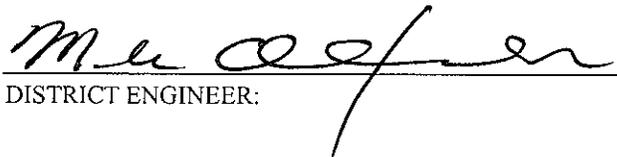
DATE RECOMMENDED: 3/14/11

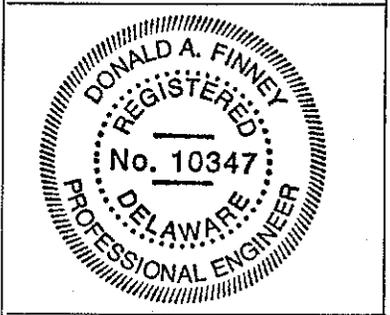
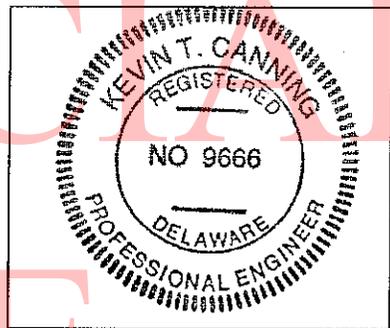
  
MAINTENANCE ENGINEER:

DATE RECOMMENDED: 3/14/11

  
CONTRACTS ENGINEER:

DATE APPROVED: 3/15/11

  
DISTRICT ENGINEER:



UNOFFICIAL WEBSITE COPY

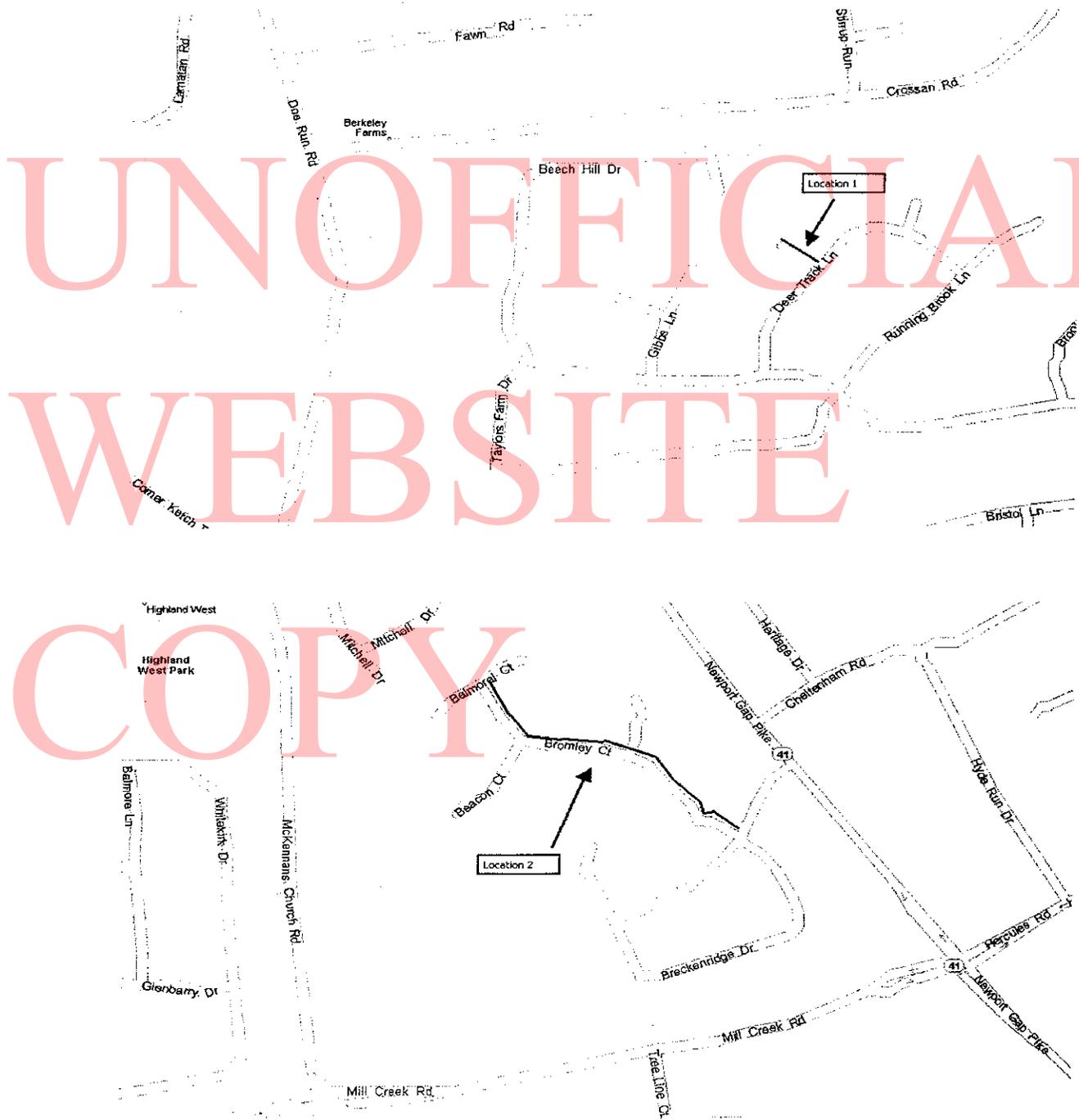
DEPARTMENT OF TRANSPORTATION

CONTRACT NUMBER- T201103103

PAGE 2 OF 43

VARIOUS LOCATIONS

LOCATION MAP



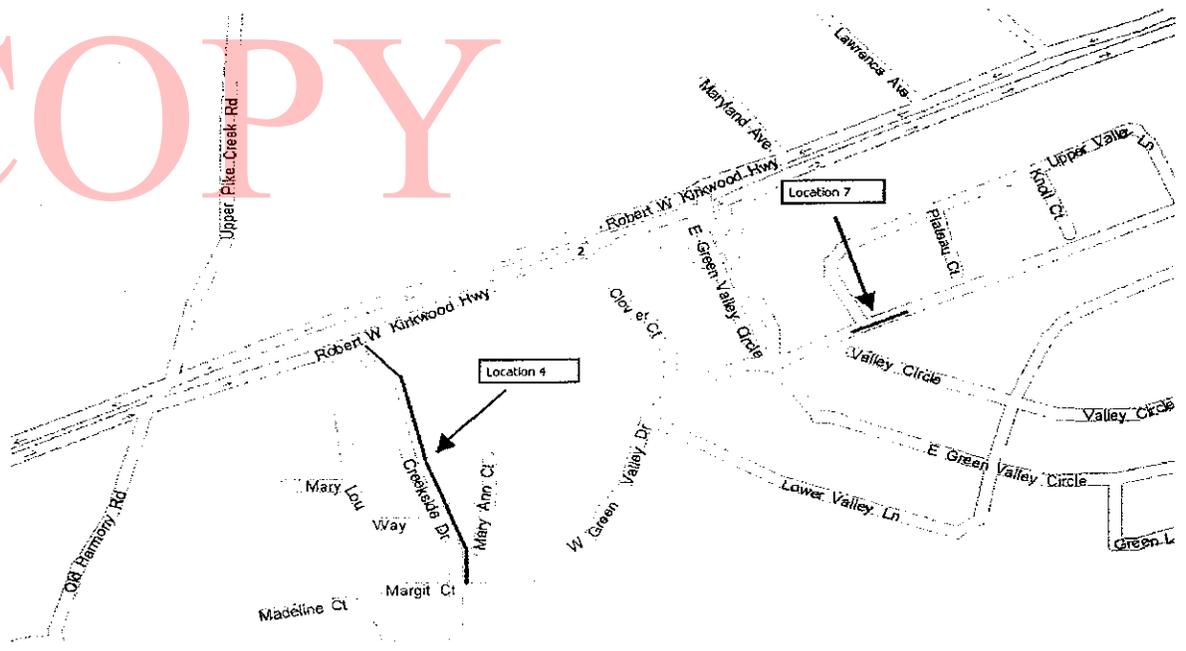
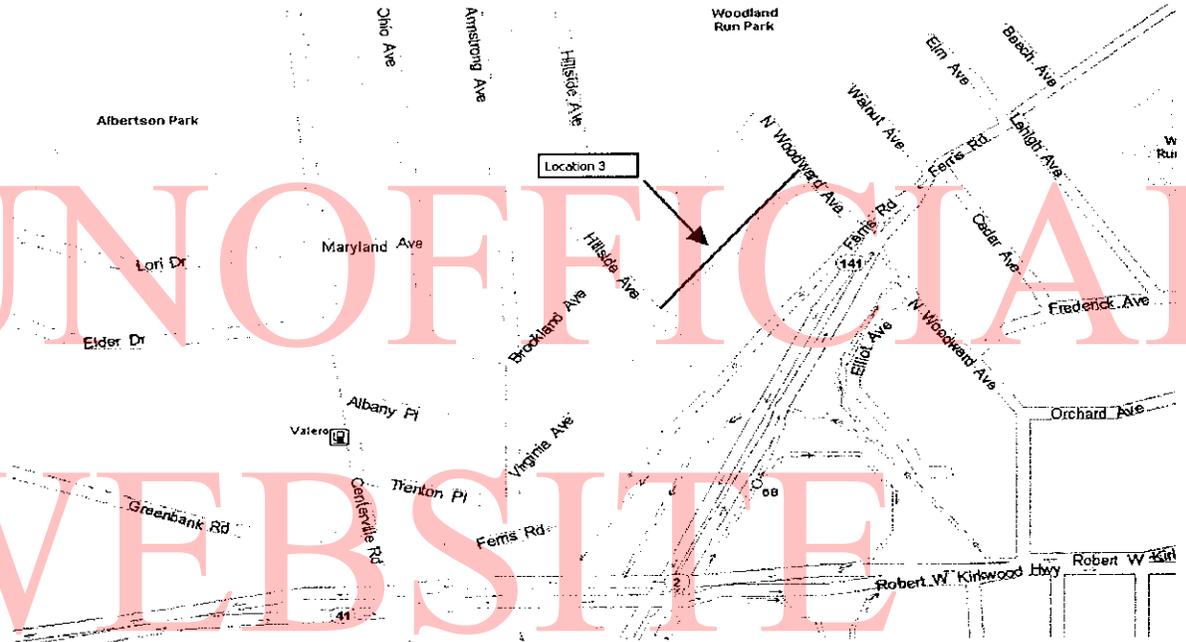
DEPARTMENT OF TRANSPORTATION

CONTRACT NUMBER- T201103103

PAGE 3 OF 43

VARIOUS LOCATIONS

LOCATION MAP



DEPARTMENT OF TRANSPORTATION

CONTRACT NUMBER- T201103103

PAGE 4 OF 43

VARIOUS LOCATIONS

LOCATION MAP





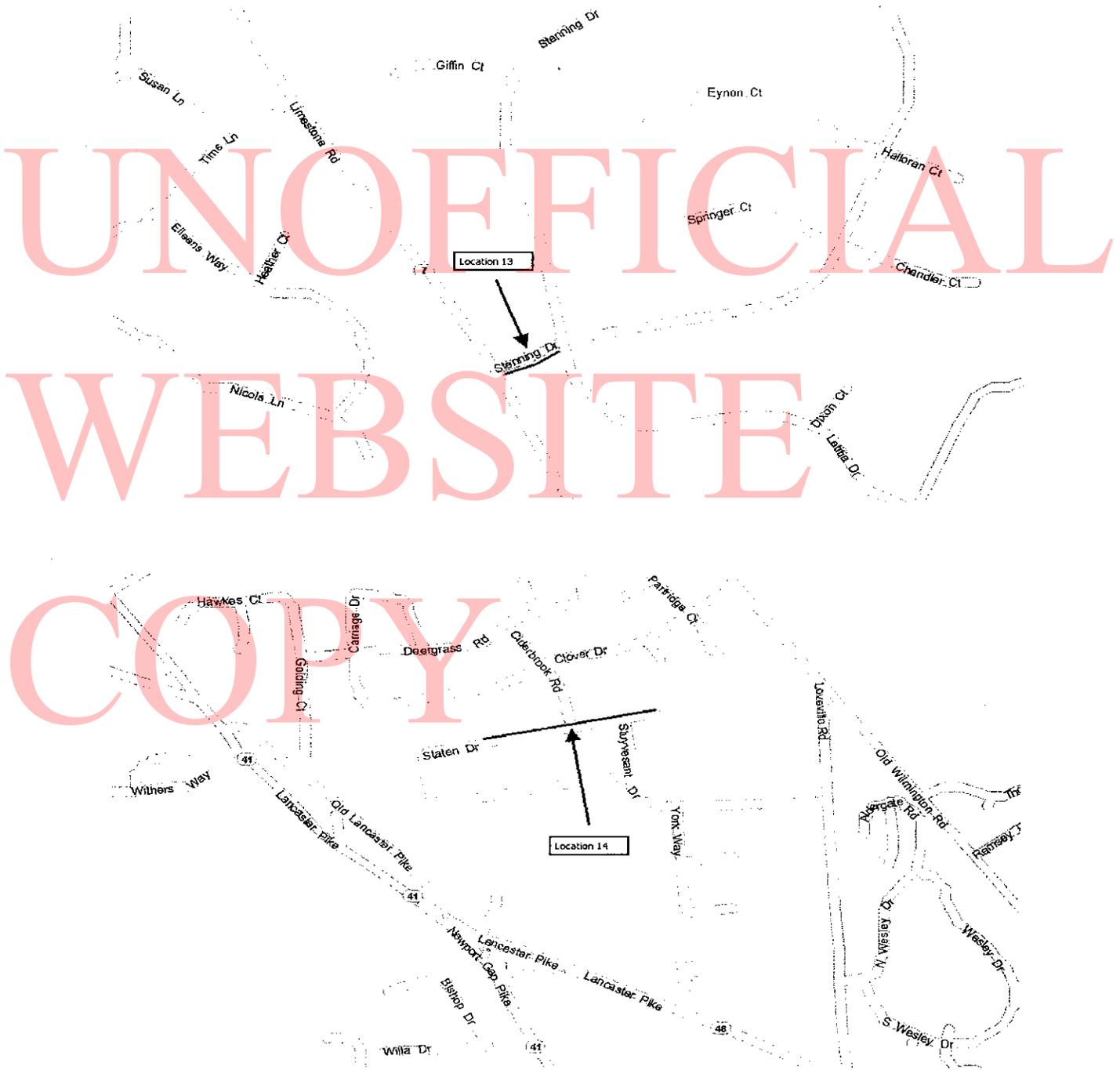
DEPARTMENT OF TRANSPORTATION

CONTRACT NUMBER- T201103103

PAGE 6 OF 43

VARIOUS LOCATIONS

LOCATION MAP



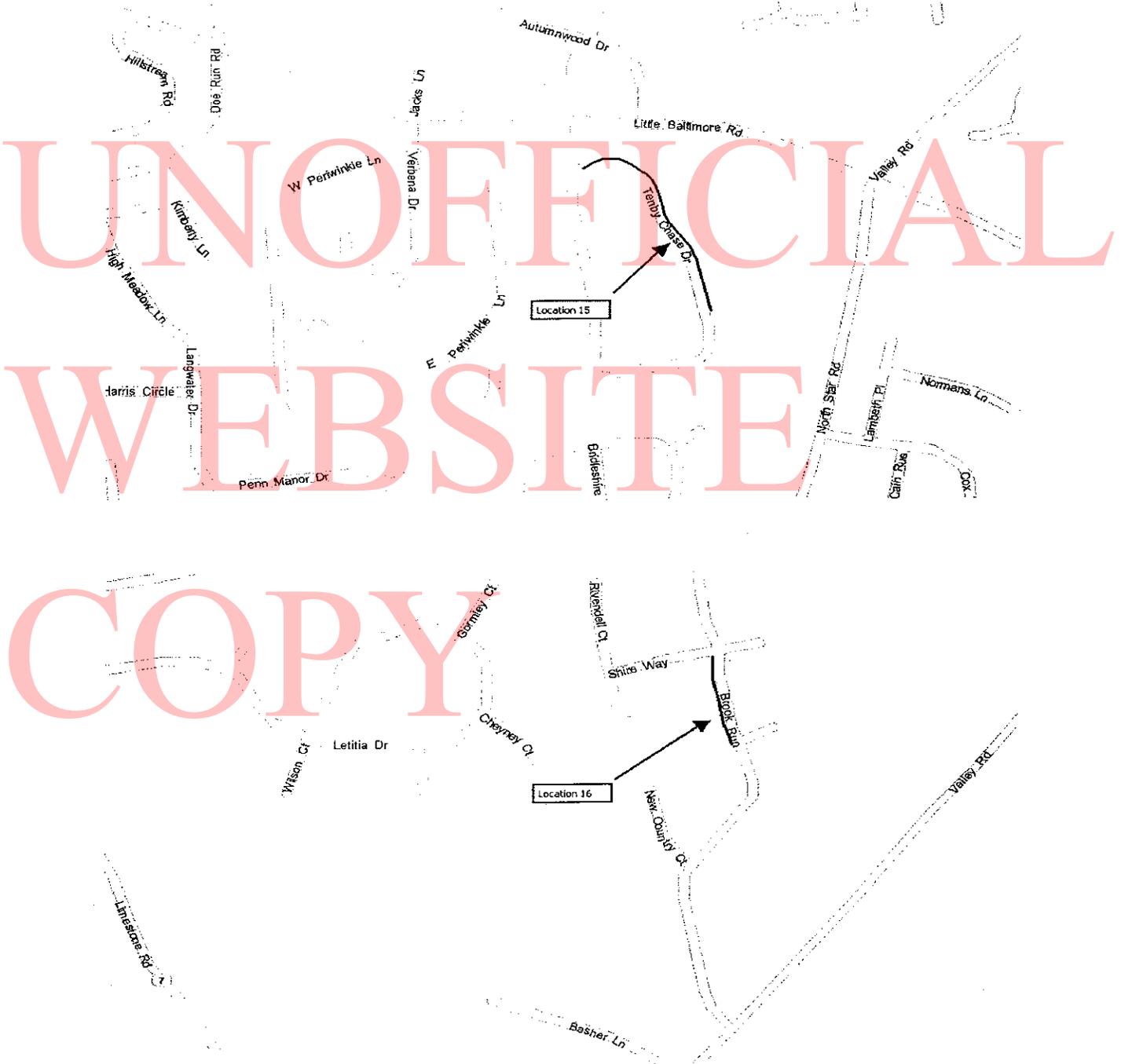
DEPARTMENT OF TRANSPORTATION

CONTRACT NUMBER- T201103103

PAGE 7 OF 43

VARIOUS LOCATIONS

LOCATION MAP



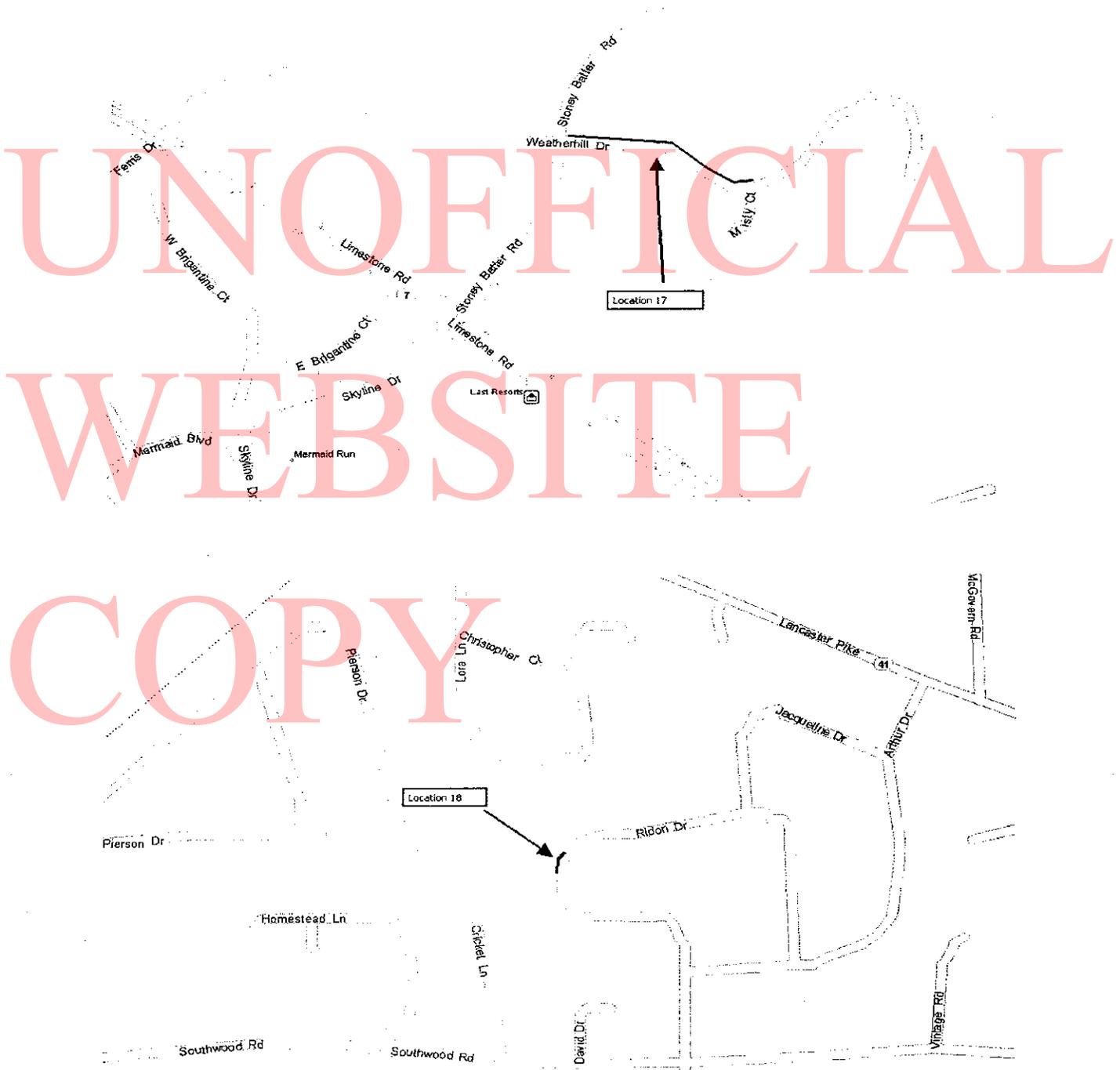
DEPARTMENT OF TRANSPORTATION

CONTRACT NUMBER- T201103103

PAGE 8 OF 43

VARIOUS LOCATIONS

LOCATION MAP



COMMUNITY TRANSPORTATION FUND, NORTH III, 2011

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 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.

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".

COMMUNITY TRANSPORTATION FUND, NORTH III, 2011

---

**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 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)
-

---

DEPARTMENT OF TRANSPORTATION

CONTRACT NUMBER-T201103103

NORTH MAINTENANCE

PAGE 11 OF 43

COMMUNITY TRANSPORTATION FUND, NORTH III, 2011

---

GENERAL CONTRACT PLAN NOTES

(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 GRATES/ 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 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

---

COMMUNITY TRANSPORTATION FUND, NORTH III, 2011

---

**GENERAL CONTRACT PLAN NOTES**

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 ENSURE THE LEAST PRACTICAL OBSTRUCTION TO THE TRAVELING PUBLIC, CONSISTENT WITH SAFETY STANDARDS AND SHALL COMPLY 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).

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.

---

COMMUNITY TRANSPORTATION FUND, NORTH III, 2011

---

**GENERAL CONTRACT PLAN NOTES**

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 SATISFACTRION 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 ENGINEER PRIOR TO USE AND SHALL BE MAINTAINED IN GOOD CONDITION FOR THE DURATION OF THE CONTRACT.

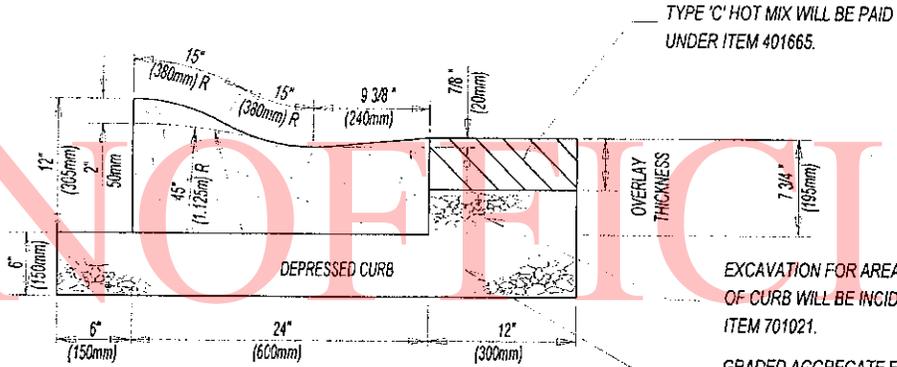
DELAWARE DEPARTMENT OF TRANSPORTATION

CONTRACT NUMBER- T201103103

PAGE 14 OF 43

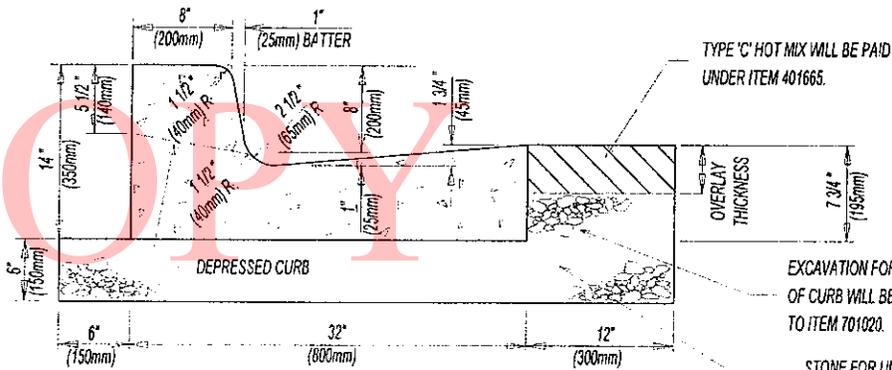
NORTH MAINTENANCE VARIOUS LOCATIONS

DETAILS SHEET



INTEGRAL P.C.C. CURB & GUTTER TYPE 2

N.T.S.



INTEGRAL P.C.C. CURB & GUTTER TYPE 1

N.T.S.

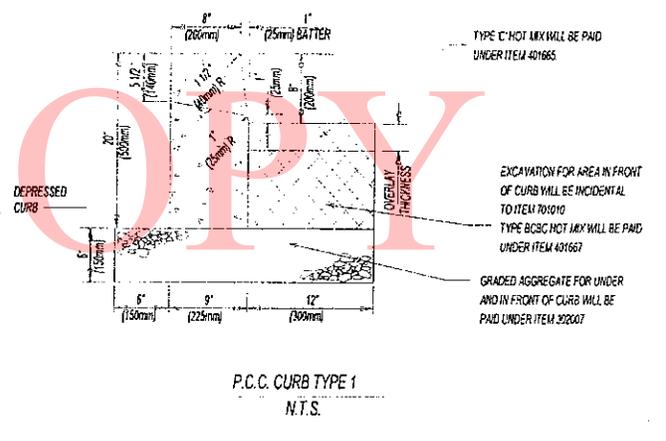
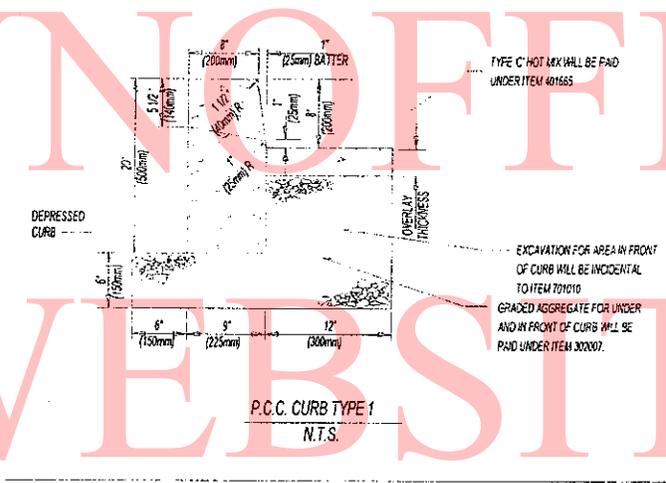
DELAWARE DEPARTMENT OF TRANSPORTATION

CONTRACT NUMBER- T201103103

PAGE 15 OF 43

NORTH MAINTENANCE VARIOUS LOCATIONS

DETAILS SHEET

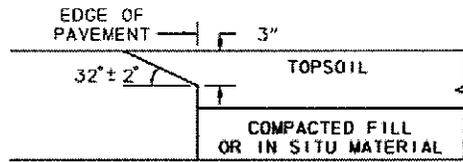


DELAWARE DEPARTMENT OF TRANSPORTATION

CONTRACT NUMBER- T201103103

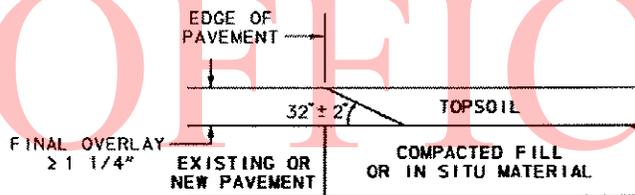
PAGE 16 OF 43

NORTH MAINTENANCE VARIOUS LOCATIONS



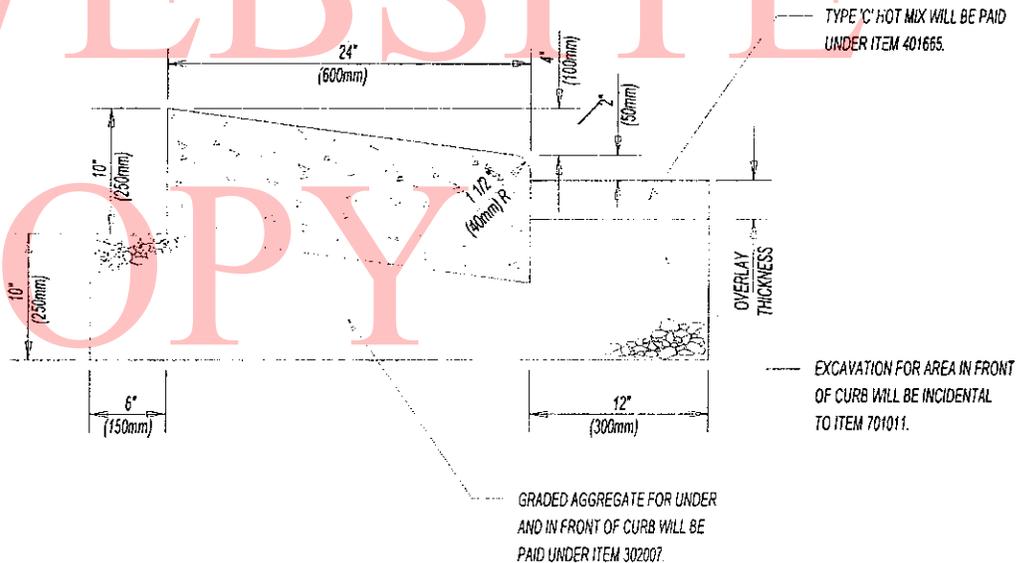
**CONCRETE PAVEMENTS**

N. T. S.



**BITUMINOUS CONCRETE PAVEMENTS AND OVERLAYS**

N. T. S.



P.C.C. CURB TYPE 2

N.T.S.

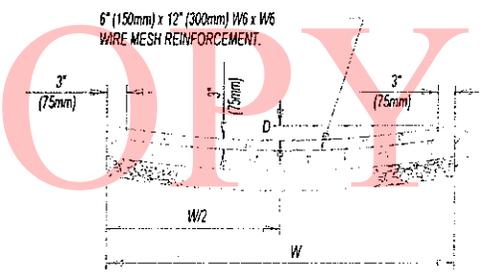
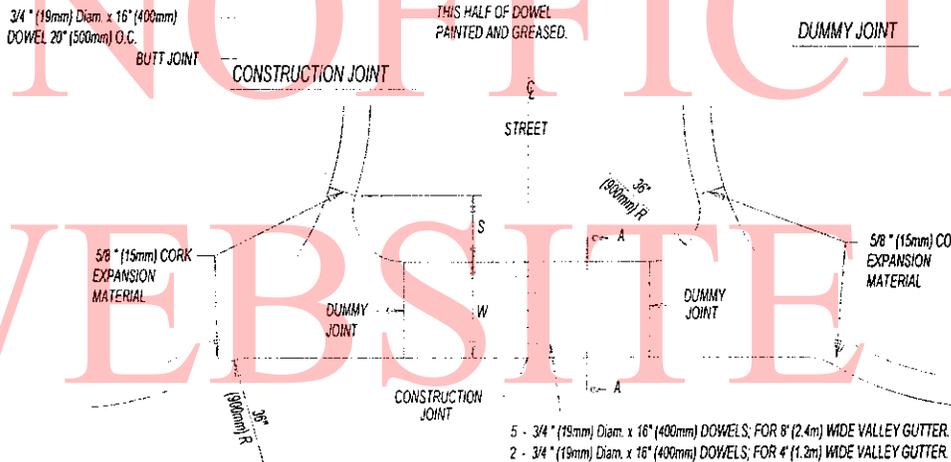
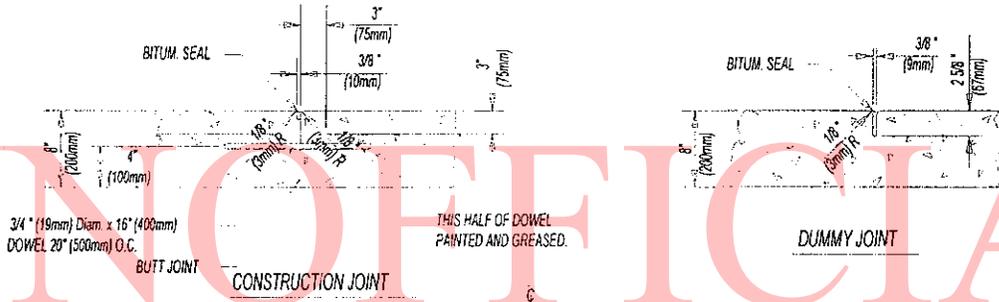
DELAWARE DEPARTMENT OF TRANSPORTATION

CONTRACT NUMBER- T201103103

PAGE 17 OF 43

NORTH MAINTENANCE VARIOUS LOCATIONS

DETAILS SHEET



PLAN  
 8" (200mm) P.C.C.  
 6" (150mm) G.A.B.C. TYPE B

WIDTH W	DEPTH D	OFFSET S
8' (2.4m)	3" (75mm)	16" (405mm)
4' (1.2m)	1 1/2" (38mm)	23 1/2" (595mm)

SECTION A-A P.C.C. VALLEY GUTTER N.T.S.

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

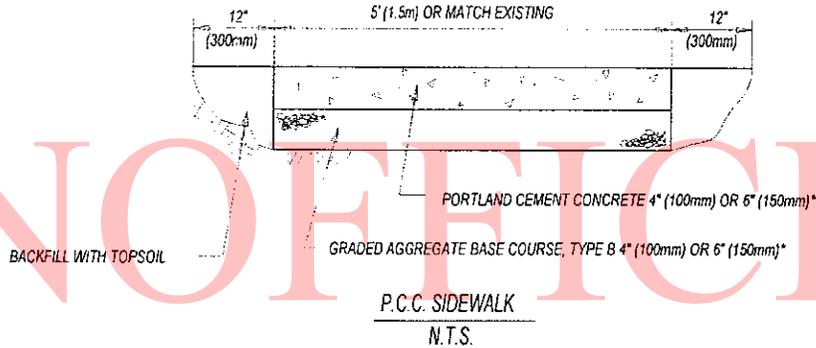
DELAWARE DEPARTMENT OF TRANSPORTATION

CONTRACT NUMBER- T201103103

PAGE 18 OF 43

NORTH MAINTENANCE VARIOUS LOCATIONS

DETAILS SHEET

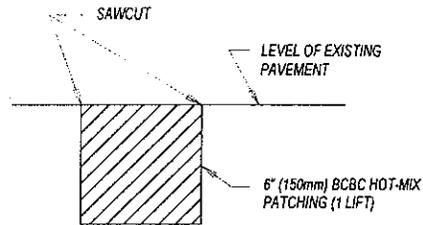


\* NOTE: 6" (150mm) CONCRETE OVER 6" (150mm) GRADED AGGREGATE TO BE USED FOR DRIVEWAY PLACEMENT

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 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.

DELAWARE DEPARTMENT OF TRANSPORTATION

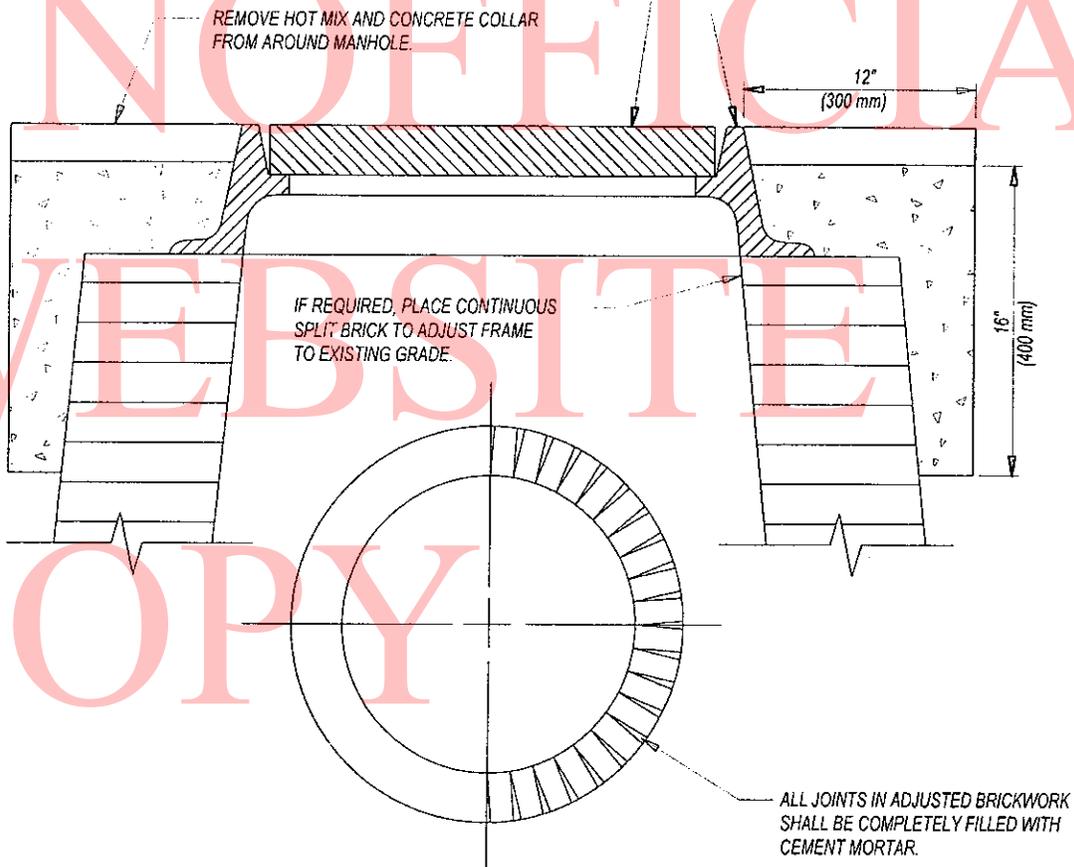
CONTRACT NUMBER- T201103103

PAGE 19 OF 43

NORTH MAINTENANCE VARIOUS LOCATIONS

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 HOT MIX 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.

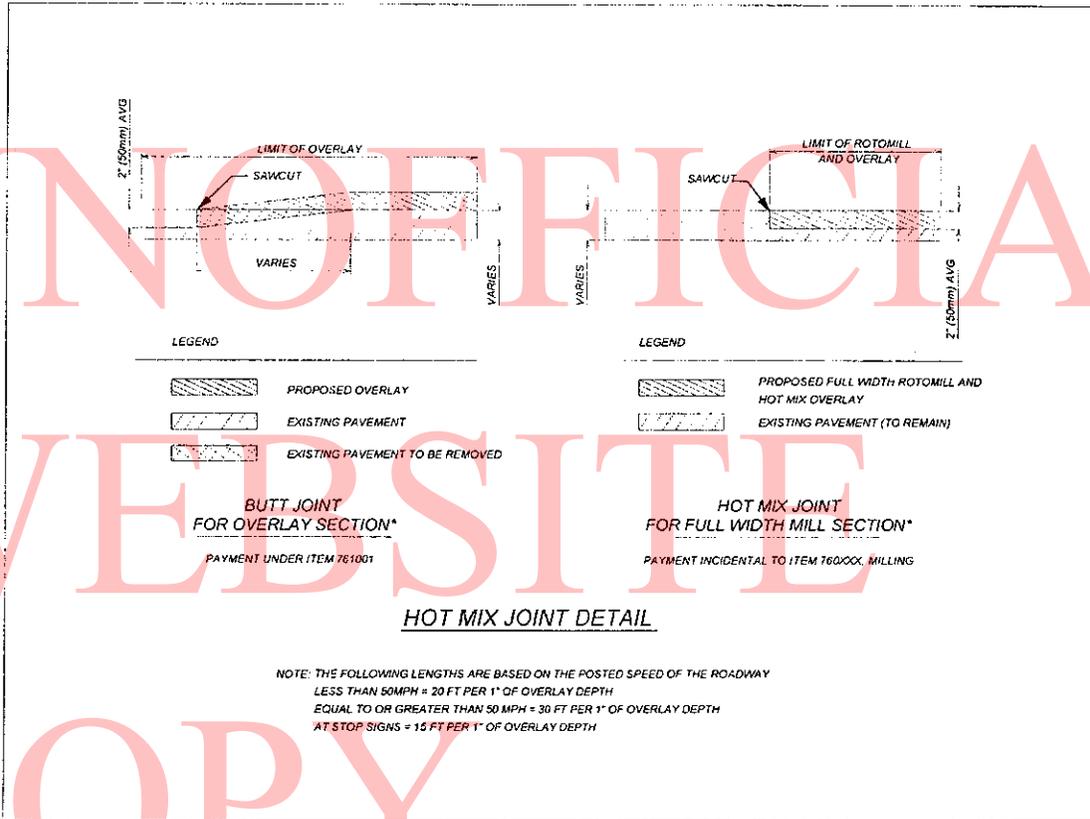
DELAWARE DEPARTMENT OF TRANSPORTATION

CONTRACT NUMBER- T201103103

PAGE 20 OF 43

NORTH MAINTENANCE VARIOUS LOCATIONS

DETAILS SHEET



DELAWARE DEPARTMENT OF TRANSPORTATION

CONTRACT NUMBER- T201103103

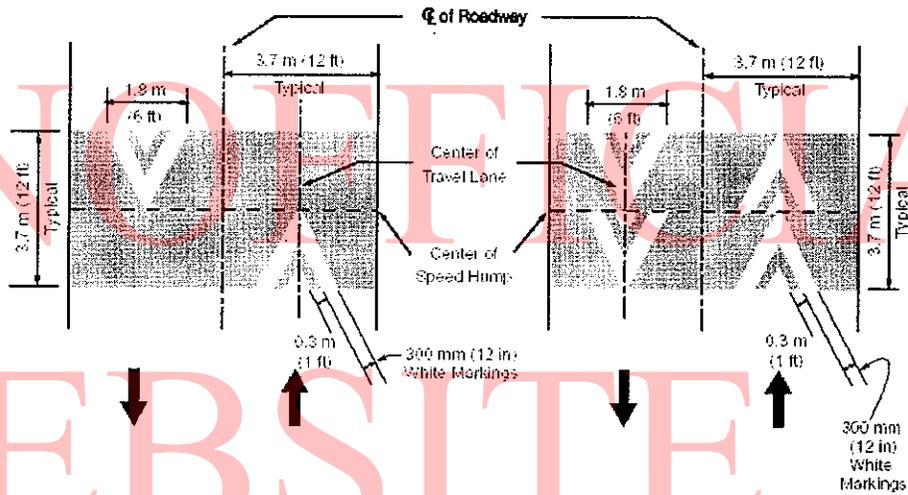
PAGE 21 OF 43

NORTH MAINTENANCE VARIOUS LOCATIONS

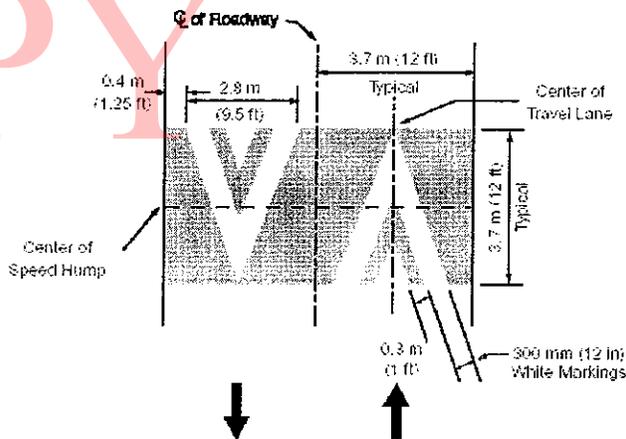
DETAILS SHEET

OPTION A

OPTION B



OPTION C



Legend

→ Direction of travel

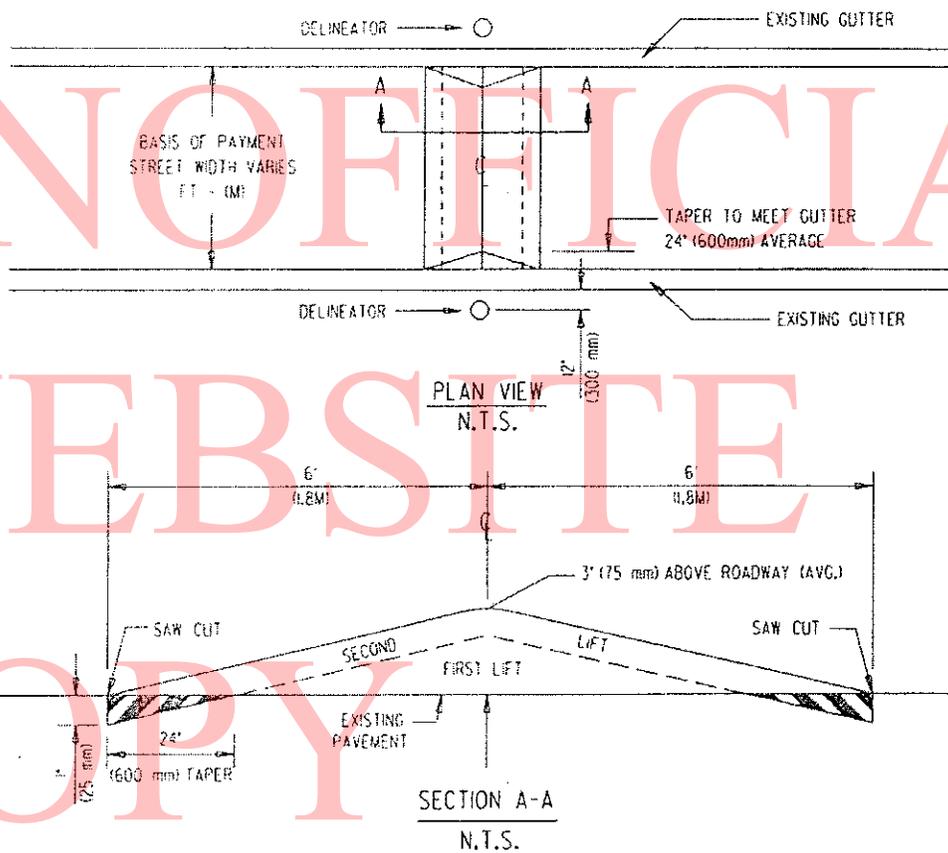
DELAWARE DEPARTMENT OF TRANSPORTATION

CONTRACT NUMBER- T201103103

PAGE 22 OF 43

NORTH MAINTENANCE VARIOUS LOCATIONS

DETAILS SHEET



- NOTES: 1. SAW CUT EXISTING PAVEMENT AND REMOVE 1" (25mm) x 24" (600mm) WEDGE.  
2. PLACE FIRST LIFT AS SHOWN, 1/2" (13mm) TO 2" (50mm) AT  $\frac{1}{2}$ ".  
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:  
a) 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 (4015II)

N.T.S.

(ALL WORK TO BE INCIDENTAL TO PRICE BID FOR SECTION 4015II.)

DELAWARE DEPARTMENT OF TRANSPORTATION

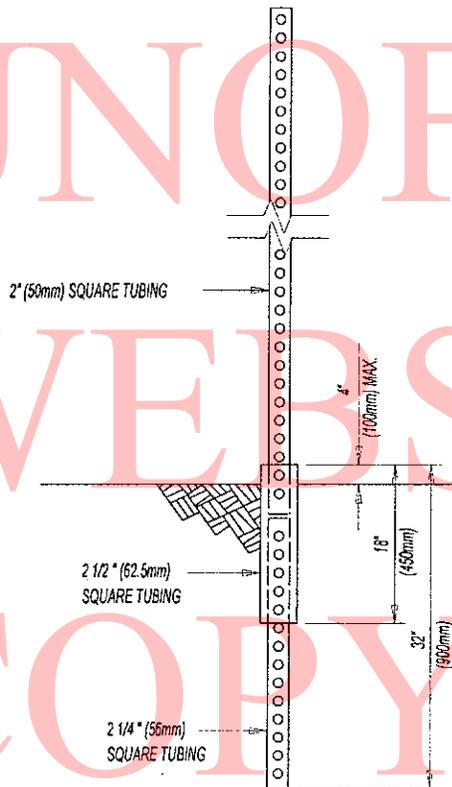
CONTRACT NUMBER- T201103103

PAGE 23 OF 43

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. TOLERANCE ON THE HOLE IS +/- .016 IN. (.4mm) TOLERANCE ON THE HOLE SPACING IS +/- .12 IN. (3mm) IN 20 FT (6M).

D. STANDARD 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.

BREAK-AWAY DELINEATOR POST ASSEMBLY  
N.T.S.

DELAWARE DEPARTMENT OF TRANSPORTATION

CONTRACT T201103103

PAGE 24 OF 43

NORTH  
MAINTENANCE

COMMUNITY TRANSPORTATION FUND, NORTH III, 2011

LOCATION 1

BEECH HILL - WINTERFIELD COURT FROM DEER TRACK LANE TO CUL-DE-SAC

LENGTH 74.676 m 245 L.F.

GENERAL IMPROVEMENTS

CURB & GUTTER REPAIRS, 2" MILL AND OVERLAY

COMMENTS:

UNOFFICIAL

MATERIAL ESTIMATE FOR LOCATION 1

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)	110.00 TON
401665	SUPERPAVE, TYPE C HOT-MIX, 160 GYRATIONS, PG 64-22, PATCHING	14.00 TON
406001	HOT-MIX PATCHING	115.00 SY-IN
701010	PORTLAND CEMENT CONCRETE CURB, TYPE 1	160.00 L.F.
701021	INTEGRAL PORTLAND CEMENT CONCRETE CURB AND GUTTER, TYPE 2	30.00 L.F.
705001	P.C.C. SIDEWALK, 4"	40.00 S.F.
705002	P.C.C. SIDEWALK, 6"	80.00 S.F.
710001	ADJUSTING AND REPAIRING EXISTING DRAINAGE INLET	1.00 EACH
710002	ADJUSTING AND REPAIRING EXISTING MANHOLE	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	48.00 HOUR
743062	** FLAGGER, NEW CASTLE COUNTY, STATE, OVERTIME	5.00 HOUR
758000	REMOVAL OF EXISTING PORTLAND CEMENT CONCRETE PAVEMENT, CURB, SIDEWALK, ETC.	54.00 S.Y.
760006	PAVEMENT - MILLING, HOT-MIX, 2" DEPTH	380.00 S.Y.
760502	PAVEMENT MILLING, TAPER CUT	385.00 SY-IN
762001	SAW CUTTING, HOT MIX	244.00 L.F.
762002	SAW CUTTING, CONCRETE, FULL DEPTH	24.00 L.F.

\*\* DENOTES FIXED PRICE ITEM

DELAWARE DEPARTMENT OF TRANSPORTATION

CONTRACT T201103103

PAGE 25 OF 43

NORTH  
MAINTENANCE

COMMUNITY TRANSPORTATION FUND, NORTH III, 2011

**LOCATION 2**                      **BRECKENRIDGE - BROMLEY DRIVE FROM BALMORAL CT. TO BRECKENRIDGE DR.**

LENGTH            278.892 m                                      915 L.F.

**GENERAL IMPROVEMENTS**

CURB AND GUTTER REPAIRS, 2" MILL AND OVERLAY

**COMMENTS:**

UNOFFICIAL

---

**MATERIAL ESTIMATE FOR LOCATION 2**

302007	GRADED AGGREGATE BASE COURSE, TYPE B	6.00 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)	325.00 TON
401665	SUPERPAVE, TYPE C HOT-MIX, 160 GYRATIONS, PG 64-22, PATCHING	10.00 TON
406001	HOT-MIX PATCHING	77.00 SY-IN
701010	PORTLAND CEMENT CONCRETE CURB, TYPE 1	120.00 L.F.
701021	INTEGRAL PORTLAND CEMENT CONCRETE CURB AND GUTTER, TYPE 2	50.00 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	70.00 S.F.
705009	CURB RAMP, TYPE 2, 3, AND/OR 4	1,225.00 S.F.
710001	ADJUSTING AND REPAIRING EXISTING DRAINAGE INLET	2.00 EACH
710002	ADJUSTING AND REPAIRING EXISTING MANHOLE	3.00 EACH
732004	TOPSOIL (TON)	19.00 TON
734016	PERMANENT GRASS SEEDING, SUBDIVISION	57.00 S.Y.
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.	36.00 S.Y.
760006	PAVEMENT - MILLING, HOT-MIX, 2" DEPTH	2,600.00 S.Y.
762001	SAW CUTTING, HOT MIX	160.00 L.F.
762002	SAW CUTTING, CONCRETE, FULL DEPTH	13.00 L.F.

\*\* DENOTES FIXED PRICE ITEM

DELAWARE DEPARTMENT OF TRANSPORTATION

CONTRACT T201103103

PAGE 26 OF 43

NORTH  
MAINTENANCE

COMMUNITY TRANSPORTATION FUND, NORTH III, 2011

LOCATION 3                      BROOKLAND TERRACE - VIRGINIA AVE. FROM HILLSIDE AVE. TO WOODWARD AVE.

LENGTH            195.072 m                      640 L.F.

GENERAL IMPROVEMENTS  
CURB AND GUTTER, 2" MILL AND OVERLAY

COMMENTS:

UNOFFICIAL

---

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.
401644	SUPERPAVE, TYPE C HOT-MIX, 115 GYRATIONS, PG 64-22 (CARBONATE STONE)	210.00 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	INTEGRAL PORTLAND CEMENT CONCRETE CURB AND 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	3.00 EACH
732004	TOPSOIL (TON)	12.00 TON
734016	PERMANENT GRASS SEEDING, SUBDIVISION	4.00 S.Y.
743050	** FLAGGER, NEW CASTLE COUNTY, STATE	48.00 HOUR
743062	** FLAGGER, NEW CASTLE COUNTY, STATE, OVERTIME	5.00 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	1,680.00 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

DELAWARE DEPARTMENT OF TRANSPORTATION

CONTRACT T201103103

PAGE 27 OF 43

NORTH  
MAINTENANCE

COMMUNITY TRANSPORTATION FUND, NORTH III, 2011

---

**LOCATION 4**                    **CREEKSIDE AT GREEN VALLEY - CREEKSIDE DRIVE FROM KIRKWOOD  
HIGHWAY TO MARGIT COURT**

LENGTH            150.876 m                    495 L.F.

**GENERAL IMPROVEMENTS**  
ROTOMILLING AND OVERLAY

**COMMENTS:**

UNOFFICIAL

---

MATERIAL ESTIMATE FOR LOCATION 4

401511	REMOVE AND CONSTRUCT SPEED HUMP	32.00 L.F.
401644	SUPERPAVE, TYPE C HOT-MIX, 115 GYRATIONS, PG 64-22 (CARBONATE STONE)	225.00 TON
401667	SUPERPAVE, BITUMINOUS CONCRETE BASE COURSE, 160 GYRATIONS, PG 64-22 PATCHING	15.00 TON
710002	ADJUSTING AND REPAIRING EXISTING MANHOLE	1.00 EACH
743003	ARROWPANELS, TYPE C	2.00 EA-DY
743050	** FLAGGER, NEW CASTLE COUNTY, STATE	40.00 HOUR
743062	** FLAGGER, NEW CASTLE COUNTY, STATE, OVERTIME	4.00 HOUR
743512	FURNISH AND MAINTAIN TRUCK MOUNTED ATTENUATOR, TYPE I	2.00 EA-DY
760006	PAVEMENT - MILLING, HOT-MIX, 2" DEPTH	1,800.00 S.Y.

WEBSITE

COPY

\*\* DENOTES FIXED PRICE ITEM

DELAWARE DEPARTMENT OF TRANSPORTATION

CONTRACT T201103103

PAGE 28 OF 43

NORTH  
MAINTENANCE

COMMUNITY TRANSPORTATION FUND, NORTH III, 2011

**LOCATION 5**                      **DEACONS WALK - WARE ROAD FROM WHITE CLAY CRESCENT TO SHELDON DRIVE**

LENGTH            394.716 m                                      1295 L.F.

**GENERAL IMPROVEMENTS**

CURB & GUTTER REPAIRS, 2" MILL AND OVERLAY

**COMMENTS:**

UNOFFICIAL

---

**MATERIAL ESTIMATE FOR LOCATION 5**

302007	GRADED AGGREGATE BASE COURSE, TYPE B	14.00 C.Y.
302008	GRADED AGGREGATE BASE COURSE, TYPE B, PATCHING	3.00 C.Y.
401511	REMOVE AND CONSTRUCT SPEED HUMP	32.00 L.F.
401644	SUPERPAVE, TYPE C HOT-MIX, 115 GYRATIONS, PG 64-22 (CARBONATE STONE)	580.00 TON
401665	SUPERPAVE, TYPE C HOT-MIX, 160 GYRATIONS, PG 64-22, PATCHING	24.00 TON
406001	HOT-MIX PATCHING	192.00 SY-IN
701021	INTEGRAL PORTLAND CEMENT CONCRETE CURB AND GUTTER, TYPE 2	300.00 L.F.
705001	P.C.C. SIDEWALK, 4"	72.00 S.F.
705002	P.C.C. SIDEWALK, 6"	144.00 S.F.
705007	SIDEWALK SURFACE DETECTABLE WARNING SYSTEM	130.00 S.F.
705009	CURB RAMP, TYPE 2, 3, AND/OR 4	2,275.00 S.F.
710001	ADJUSTING AND REPAIRING EXISTING DRAINAGE INLET	1.00 EACH
710002	ADJUSTING AND REPAIRING EXISTING MANHOLE	6.00 EACH
732004	TOPSOIL (TON)	38.00 TON
734016	PERMANENT GRASS SEEDING, SUBDIVISION	114.00 S.Y.
735534	SOIL RETENTION BLANKET MULCH, TYPE 4	114.00 S.Y.
743050	** FLAGGER, NEW CASTLE COUNTY, STATE	216.00 HOUR
743062	** FLAGGER, NEW CASTLE COUNTY, STATE, OVERTIME	22.00 HOUR
758000	REMOVAL OF EXISTING PORTLAND CEMENT CONCRETE PAVEMENT, CURB, SIDEWALK, ETC.	91.00 S.Y.
760006	PAVEMENT - MILLING, HOT-MIX, 2" DEPTH	4,640.00 S.Y.
762001	SAW CUTTING, HOT MIX	440.00 L.F.
762002	SAW CUTTING, CONCRETE, FULL DEPTH	44.00 L.F.

\*\* DENOTES FIXED PRICE ITEM

DELAWARE DEPARTMENT OF TRANSPORTATION

CONTRACT T201103103

PAGE 29 OF 43

NORTH  
MAINTENANCE

COMMUNITY TRANSPORTATION FUND, NORTH III, 2011

LOCATION 6

GORDY ESTATES - GARNET ROAD FROM BURNSIDE BLVD TO WOODTOP ROAD

LENGTH 291.084 m 955 L.F.

GENERAL IMPROVEMENTS

CURB & GUTTER REPAIRS, 2" MILL AND OVERLAY

COMMENTS:

UNOFFICIAL

MATERIAL ESTIMATE FOR LOCATION 6

302007	GRADED AGGREGATE BASE COURSE, TYPE B	22.00 C.Y.
302008	GRADED AGGREGATE BASE COURSE, TYPE B, PATCHING	9.00 C.Y.
401511	REMOVE AND CONSTRUCT SPEED HUMP	76.00 L.F.
401644	SUPERPAVE, TYPE C HOT-MIX, 115 GYRATIONS, PG 64-22 (CARBONATE STONE)	315.00 TON
401665	SUPERPAVE, TYPE C HOT-MIX, 160 GYRATIONS, PG 64-22, PATCHING	28.00 TON
406001	HOT-MIX PATCHING	310.00 SY-IN
701004	PORTLAND CEMENT CONCRETE VALLEY GUTTER, 8"	50.00 S.Y.
701021	INTEGRAL PORTLAND CEMENT CONCRETE CURB AND 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.
705007	SIDEWALK SURFACE DETECTABLE WARNING SYSTEM	80.00 S.F.
705009	CURB RAMP, TYPE 2, 3, AND/OR 4	1,400.00 S.F.
710002	ADJUSTING AND REPAIRING EXISTING MANHOLE	5.00 EACH
732004	TOPSOIL (TON)	30.00 TON
734016	PERMANENT GRASS SEEDING, SUBDIVISION	90.00 S.Y.
735534	SOIL RETENTION BLANKET MULCH, TYPE 4	90.00 S.Y.
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.	126.00 S.Y.
760006	PAVEMENT - MILLING, HOT-MIX, 2" DEPTH	2,520.00 S.Y.
762001	SAW CUTTING, HOT MIX	498.00 L.F.
762002	SAW CUTTING, CONCRETE, FULL DEPTH	30.00 L.F.

\*\* DENOTES FIXED PRICE ITEM

DELAWARE DEPARTMENT OF TRANSPORTATION

CONTRACT T201103103

PAGE 30 OF 43

NORTH  
MAINTENANCE

COMMUNITY TRANSPORTATION FUND, NORTH III, 2011

**LOCATION 7 GREEN VALLEY - E GREEN VALLEY CIRCLE FROM HOUSE #253 TO #255 AND HOUSE #7**

LENGTH 15.24 m 50 L.F.

**GENERAL IMPROVEMENTS**

CURB AND GUTTER AND CATCH BASIN REPAIRS

**COMMENTS:**

Replace 50' of Type I curb in front of house's #253 to #255. Replace catch basin in front of House # 7 across the street.

**MATERIAL ESTIMATE FOR LOCATION 7**

302007	GRADED AGGREGATE BASE COURSE, TYPE B	2.00 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	4.00 TON
406001	HOT-MIX PATCHING	32.00 SY-IN
701022	INTEGRAL PORTLAND CEMENT CONCRETE CURB AND GUTTER, TYPE 3	50.00 L.F.
705001	P.C.C. SIDEWALK, 4"	12.00 S.F.
705002	P.C.C. SIDEWALK, 6"	24.00 S.F.
710001	ADJUSTING AND REPAIRING EXISTING DRAINAGE INLET	1.00 EACH
732004	TOPSOIL (TON)	2.00 TON
743050	** FLAGGER, NEW CASTLE COUNTY, STATE	16.00 HOUR
743062	** FLAGGER, NEW CASTLE COUNTY, STATE, OVERTIME	2.00 HOUR
758000	REMOVAL OF EXISTING PORTLAND CEMENT CONCRETE PAVEMENT, CURB, SIDEWALK, ETC.	15.00 S.Y.
762001	SAW CUTTING, HOT MIX	67.00 L.F.
762002	SAW CUTTING, CONCRETE, FULL DEPTH	7.00 L.F.

\*\* DENOTES FIXED PRICE ITEM

DELAWARE DEPARTMENT OF TRANSPORTATION

CONTRACT T201103103

PAGE 31 OF 43

NORTH  
MAINTENANCE

COMMUNITY TRANSPORTATION FUND, NORTH III, 2011

LOCATION 8                      HERITAGE PARK - GRENDON DRIVE NORTH FROM CARL ROAD TO MILLTOWN ROAD

LENGTH                      45.72 m                      150 L.F.

GENERAL IMPROVEMENTS

CURB & GUTTER REPAIRS, REPLACE VALLEY GUTTER

COMMENTS:

Call Jeff Leonard prior to marking out.

MATERIAL ESTIMATE FOR LOCATION 8

302007	GRADED AGGREGATE BASE COURSE, TYPE B	17.00 C.Y.
302008	GRADED AGGREGATE BASE COURSE, TYPE B, PATCHING	8.00 C.Y.
401665	SUPERPAVE, TYPE C HOT-MIX, 160 GYRATIONS, PG 64-22, PATCHING	20.00 TON
406001	HOT-MIX PATCHING	246.00 SY-IN
701004	PORTLAND CEMENT CONCRETE VALLEY GUTTER, 8"	50.00 S.Y.
701021	INTEGRAL PORTLAND CEMENT CONCRETE CURB AND GUTTER, TYPE 2	150.00 L.F.
705001	P.C.C. SIDEWALK, 4"	36.00 S.F.
705002	P.C.C. SIDEWALK, 6"	72.00 S.F.
732004	TOPSOIL (TON)	9.00 TON
734016	PERMANENT GRASS SEEDING, SUBDIVISION	27.00 S.Y.
735534	SOIL RETENTION BLANKET MULCH, TYPE 4	27.00 S.Y.
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.	95.00 S.Y.
762001	SAW CUTTING, HOT MIX	360.00 L.F.
762002	SAW CUTTING, CONCRETE, FULL DEPTH	17.00 L.F.

\*\* DENOTES FIXED PRICE ITEM

DELAWARE DEPARTMENT OF TRANSPORTATION

CONTRACT T201103103

PAGE 32 OF 43

NORTH  
MAINTENANCE

COMMUNITY TRANSPORTATION FUND, NORTH III, 2011

---

LOCATION 9                      MEADOWDALE - MEADOWDALE DRIVE CIRCLE FROM NEAR EDINBRO COURT

LENGTH            214.884 m                      705 L.F.

**GENERAL IMPROVEMENTS**

2" MILL AND OVERLAY ONLY

**COMMENTS:**

Include pork chop island lanes.

---

**MATERIAL ESTIMATE FOR LOCATION 9**

401644	SUPERPAVE, TYPE C HOT-MIX, 115 GYRATIONS, PG 64-22 (CARBONATE STONE)	200.00 TON
743050	** FLAGGER, NEW CASTLE COUNTY, STATE	48.00 HOUR
743062	** FLAGGER, NEW CASTLE COUNTY, STATE, OVERTIME	5.00 HOUR
760006	PAVEMENT - MILLING, HOT-MIX, 2" DEPTH	1,600.00 S.Y.

\*\* DENOTES FIXED PRICE ITEM

COPY

DELAWARE DEPARTMENT OF TRANSPORTATION

CONTRACT T201103103

PAGE 33 OF 43

NORTH  
MAINTENANCE

COMMUNITY TRANSPORTATION FUND, NORTH III, 2011

**LOCATION 10**                      **MEADOWDALE - MEADOWDALE DRIVE FROM 1ST INT. W/ WHITEHAVEN COURT TO CIRCLE**

LENGTH            227.076 m                                      745 L.F.

**GENERAL IMPROVEMENTS**

CURB & GUTTER REPAIRS, 2" MILL AND OVERLAY

**COMMENTS:**

UNOFFICIAL

---

**MATERIAL ESTIMATE FOR LOCATION 10**

302007	GRADED AGGREGATE BASE COURSE, TYPE B	3.00 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)	230.00 TON
401665	SUPERPAVE, TYPE C HOT-MIX, 160 GYRATIONS, PG 64-22, PATCHING	6.00 TON
406001	HOT-MIX PATCHING	45.00 SY-IN
701021	INTEGRAL PORTLAND CEMENT CONCRETE CURB AND GUTTER, TYPE 2	20.00 L.F.
701022	INTEGRAL PORTLAND CEMENT CONCRETE CURB AND GUTTER, TYPE 3	50.00 L.F.
705001	P.C.C. SIDEWALK, 4"	17.00 S.F.
705002	P.C.C. SIDEWALK, 6"	34.00 S.F.
710001	ADJUSTING AND REPAIRING EXISTING DRAINAGE INLET	1.00 EACH
732004	TOPSOIL (TON)	3.00 TON
734016	PERMANENT GRASS SEEDING, SUBDIVISION	9.00 S.Y.
735534	SOIL RETENTION BLANKET MULCH, TYPE 4	9.00 S.Y.
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.	21.00 S.Y.
760006	PAVEMENT - MILLING, HOT-MIX, 2" DEPTH	1,840.00 S.Y.
762001	SAW CUTTING, HOT MIX	93.00 L.F.
762002	SAW CUTTING, CONCRETE, FULL DEPTH	8.00 L.F.

\*\* DENOTES FIXED PRICE ITEM

DELAWARE DEPARTMENT OF TRANSPORTATION

CONTRACT T201103103

PAGE 34 OF 43

NORTH  
MAINTENANCE

COMMUNITY TRANSPORTATION FUND, NORTH III, 2011

LOCATION 11 MEADOWDALE - MEADOWDALE DRIVE FROM CIRCLE NEAR EDINBRO COURT  
TO CUL-DE-SAC

LENGTH 334.9752 m 1099 L.F.

GENERAL IMPROVEMENTS

CURB & GUTTER REPAIRS, 2" MILL AND OVERLAY

COMMENTS:

UNOFFICIAL

---

MATERIAL ESTIMATE FOR LOCATION 11

302007	GRADED AGGREGATE BASE COURSE, TYPE B	12.00 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)	440.00 TON
401665	SUPERPAVE, TYPE C HOT-MIX, 160 GYRATIONS, PG 64-22, PATCHING	20.00 TON
406001	HOT-MIX PATCHING	160.00 SY-IN
701010	PORTLAND CEMENT CONCRETE CURB, TYPE 1	100.00 L.F.
701021	INTEGRAL PORTLAND CEMENT CONCRETE CURB AND GUTTER, TYPE 2	150.00 L.F.
705001	P.C.C. SIDEWALK, 4"	60.00 S.F.
705002	P.C.C. SIDEWALK, 6"	120.00 S.F.
710001	ADJUSTING AND REPAIRING EXISTING DRAINAGE INLET	4.00 EACH
710002	ADJUSTING AND REPAIRING EXISTING MANHOLE	4.00 EACH
732004	TOPSOIL (TON)	10.00 TON
734016	PERMANENT GRASS SEEDING, SUBDIVISION	30.00 S.Y.
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.	76.00 S.Y.
760006	PAVEMENT - MILLING, HOT-MIX, 2" DEPTH	3,020.00 S.Y.
760502	PAVEMENT MILLING, TAPER CUT	385.00 SY-IN
762001	SAW CUTTING, HOT MIX	333.00 L.F.
762002	SAW CUTTING, CONCRETE, FULL DEPTH	28.00 L.F.

\*\* DENOTES FIXED PRICE ITEM

DELAWARE DEPARTMENT OF TRANSPORTATION

CONTRACT T201103103

PAGE 35 OF 43

NORTH  
MAINTENANCE

COMMUNITY TRANSPORTATION FUND, NORTH III, 2011

---

**LOCATION 12**                      **MEADOWDALE - MEADOWDALE DRIVE FROM WHITEHAVEN COURT TO  
PAPERMILL ROAD**

LENGTH      295.0464 m                      968 L.F.

**GENERAL IMPROVEMENTS**  
2" MILL AND OVERLAY

COMMENTS:

UNOFFICIAL  
WEBSITE  
COPY

---

**MATERIAL ESTIMATE FOR LOCATION 12**

401644	SUPERPAVE, TYPE C HOT-MIX, 115 GYRATIONS, PG 64-22 (CARBONATE STONE)	500.00 TON
743003	ARROWPANELS, TYPE C	4.00 EA-DY
743050	** FLAGGER, NEW CASTLE COUNTY, STATE	64.00 HOUR
743062	** FLAGGER, NEW CASTLE COUNTY, STATE, OVERTIME	6.00 HOUR
743512	FURNISH AND MAINTAIN TRUCK MOUNTED ATTENUATOR, TYPE I	4.00 EA-DY
760006	PAVEMENT - MILLING, HOT-MIX, 2" DEPTH	4,000.00 S.Y.

\*\* DENOTES FIXED PRICE ITEM

DELAWARE DEPARTMENT OF TRANSPORTATION

CONTRACT T201103103

PAGE 36 OF 43

NORTH  
MAINTENANCE

COMMUNITY TRANSPORTATION FUND, NORTH III, 2011

LOCATION 13

STENNING WOODS - STENNING DR FROM LIMESTONE ROAD TO LETITIA DRIVE

LENGTH 60.0456 m 197 L.F.

GENERAL IMPROVEMENTS

CURB AND GUTTER, 2" MILL AND OVERLAY

COMMENTS:

UNOFFICIAL

---

MATERIAL ESTIMATE FOR LOCATION 13

302007	GRADED AGGREGATE BASE COURSE, TYPE B	2.00 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)	110.00 TON
401665	SUPERPAVE, TYPE C HOT-MIX, 160 GYRATIONS, PG 64-22, PATCHING	4.00 TON
406001	HOT-MIX PATCHING	32.00 SY-IN
701021	INTEGRAL PORTLAND CEMENT CONCRETE CURB AND 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	20.00 S.F.
705009	CURB RAMP, TYPE 2, 3, AND/OR 4	350.00 S.F.
732004	TOPSOIL (TON)	6.00 TON
734016	PERMANENT GRASS SEEDING, SUBDIVISION	18.00 S.Y.
743003	ARROWPANELS, TYPE C	2.00 EA-DY
743050	** FLAGGER, NEW CASTLE COUNTY, STATE	48.00 HOUR
743062	** FLAGGER, NEW CASTLE COUNTY, STATE, OVERTIME	5.00 HOUR
743512	FURNISH AND MAINTAIN TRUCK MOUNTED ATTENUATOR, TYPE I	2.00 EA-DY
758000	REMOVAL OF EXISTING PORTLAND CEMENT CONCRETE PAVEMENT, CURB, SIDEWALK, ETC.	15.00 S.Y.
760006	PAVEMENT - MILLING, HOT-MIX, 2" DEPTH	880.00 S.Y.
762001	SAW CUTTING, HOT MIX	69.00 L.F.
762002	SAW CUTTING, CONCRETE, FULL DEPTH	9.00 L.F.

\*\* DENOTES FIXED PRICE ITEM

DELAWARE DEPARTMENT OF TRANSPORTATION

CONTRACT T201103103

PAGE 37 OF 43

NORTH  
MAINTENANCE

COMMUNITY TRANSPORTATION FUND, NORTH III, 2011

**LOCATION 14**                      **STUYVESANT HILLS - STATEN DRIVE FROM DRIVEWAY AT HOUSE # 29 TO DEAD END**

LENGTH            445.008 m                                      1460 L.F.

**GENERAL IMPROVEMENTS**

CURB & GUTTER REPAIRS, 2" MILL AND OVERLAY

**COMMENTS:**

UNOFFICIAL

---

**MATERIAL ESTIMATE FOR LOCATION 14**

302007	GRADED AGGREGATE BASE COURSE, TYPE B	14.00 C.Y.
302008	GRADED AGGREGATE BASE COURSE, TYPE B, PATCHING	3.00 C.Y.
401644	SUPERPAVE, TYPE C HOT-MIX, 115 GYRATIONS, PG 64-22 (CARBONATE STONE)	500.00 TON
401665	SUPERPAVE, TYPE C HOT-MIX, 160 GYRATIONS, PG 64-22, PATCHING	24.00 TON
406001	HOT-MIX PATCHING	192.00 SY-IN
701021	INTEGRAL PORTLAND CEMENT CONCRETE CURB AND GUTTER, TYPE 2	300.00 L.F.
705001	P.C.C. SIDEWALK, 4"	72.00 S.F.
705002	P.C.C. SIDEWALK, 6"	144.00 S.F.
710002	ADJUSTING AND REPAIRING EXISTING MANHOLE	7.00 EACH
732004	TOPSOIL (TON)	12.00 TON
734016	PERMANENT GRASS SEEDING, SUBDIVISION	36.00 S.Y.
743050	** FLAGGER, NEW CASTLE COUNTY, STATE	128.00 HOUR
743062	** FLAGGER, NEW CASTLE COUNTY, STATE, OVERTIME	13.00 HOUR
750000	ADJUST WATER VALVE BOXES	1.00 EACH
758000	REMOVAL OF EXISTING PORTLAND CEMENT CONCRETE PAVEMENT, CURB, SIDEWALK, ETC.	91.00 S.Y.
760006	PAVEMENT - MILLING, HOT-MIX, 2" DEPTH	4,000.00 S.Y.
762001	SAW CUTTING, HOT MIX	400.00 L.F.
762002	SAW CUTTING, CONCRETE, FULL DEPTH	33.00 L.F.

\*\* DENOTES FIXED PRICE ITEM

CONTRACT T201103103

NORTH  
MAINTENANCE

COMMUNITY TRANSPORTATION FUND, NORTH III, 2011

LOCATION 15 TENBY CHASE - TENBY CHASE DRIVE FROM TENBY CHASE TURN TO HOUSE #  
44

LENGTH 415.1376 m 1362 L.F.

GENERAL IMPROVEMENTS

CURB & GUTTER REPAIRS, HOTMIX MILLING AND OVERLAY

COMMENTS:

UNOFFICIAL

---

MATERIAL ESTIMATE FOR LOCATION 15

302007	GRADED AGGREGATE BASE COURSE, TYPE B	33.00 C.Y.
302008	GRADED AGGREGATE BASE COURSE, TYPE B, PATCHING	7.00 C.Y.
401644	SUPERPAVE, TYPE C HOT-MIX, 115 GYRATIONS, PG 64-22 (CARBONATE STONE)	450.00 TON
401665	SUPERPAVE, TYPE C HOT-MIX, 160 GYRATIONS, PG 64-22, PATCHING	56.00 TON
406001	HOT-MIX PATCHING	448.00 SY-IN
701021	INTEGRAL PORTLAND CEMENT CONCRETE CURB AND GUTTER, TYPE 2	700.00 L.F.
705001	P.C.C. SIDEWALK, 4"	170.00 S.F.
705002	P.C.C. SIDEWALK, 6"	340.00 S.F.
710001	ADJUSTING AND REPAIRING EXISTING DRAINAGE INLET	1.00 EACH
732004	TOPSOIL (TON)	28.00 TON
734016	PERMANENT GRASS SEEDING, SUBDIVISION	84.00 S.Y.
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.	212.00 S.Y.
760006	PAVEMENT - MILLING, HOT-MIX, 2" DEPTH	3,600.00 S.Y.
762001	SAW CUTTING, HOT MIX	933.00 L.F.
762002	SAW CUTTING, CONCRETE, FULL DEPTH	88.00 L.F.

\*\* DENOTES FIXED PRICE ITEM

DELAWARE DEPARTMENT OF TRANSPORTATION

CONTRACT T201103103

PAGE 39 OF 43

NORTH  
MAINTENANCE

COMMUNITY TRANSPORTATION FUND, NORTH III, 2011

LOCATION 16

VALLEBROOK - BROOK RUN FROM SHIRE WAY TO EASTRIDGE COURT

LENGTH 99.9744 m 328 L.F.

GENERAL IMPROVEMENTS

CURB & GUTTER REPAIRS, 2" MILL AND OVERLAY

COMMENTS:

UNOFFICIAL

---

MATERIAL ESTIMATE FOR LOCATION 16

302007	GRADED AGGREGATE BASE COURSE, TYPE B	2.00 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)	110.00 TON
401665	SUPERPAVE, TYPE C HOT-MIX, 160 GYRATIONS, PG 64-22, PATCHING	4.00 TON
406001	HOT-MIX PATCHING	32.00 SY-IN
701010	PORTLAND CEMENT CONCRETE CURB, TYPE 1	50.00 L.F.
705001	P.C.C. SIDEWALK, 4"	12.00 S.F.
705002	P.C.C. SIDEWALK, 6"	24.00 S.F.
710002	ADJUSTING AND REPAIRING EXISTING MANHOLE	1.00 EACH
732004	TOPSOIL (TON)	2.00 TON
734016	PERMANENT GRASS SEEDING, SUBDIVISION	6.00 S.Y.
735534	SOIL RETENTION BLANKET MULCH, TYPE 4	6.00 S.Y.
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.	15.00 S.Y.
760006	PAVEMENT - MILLING, HOT-MIX, 2" DEPTH	880.00 S.Y.
762001	SAW CUTTING, HOT MIX	69.00 L.F.
762002	SAW CUTTING, CONCRETE, FULL DEPTH	9.00 L.F.

\*\* DENOTES FIXED PRICE ITEM

DELAWARE DEPARTMENT OF TRANSPORTATION

CONTRACT T201103103

PAGE 40 OF 43

NORTH  
MAINTENANCE

COMMUNITY TRANSPORTATION FUND, NORTH III, 2011

**LOCATION 17** WEATHERHILL FARMS - WEATHERHILL DR FROM STONEY BATTER ROAD TO MISTY CT.

LENGTH 249.936 m 820 L.F.

**GENERAL IMPROVEMENTS**

CURB AND GUTTER REPAIRS, 2" MILL AND OVERLAY

**COMMENTS:**

Driveway patches should only be 2' wide to avoid water valves.

**MATERIAL ESTIMATE FOR LOCATION 17**

302007	GRADED AGGREGATE BASE COURSE, TYPE B	12.00 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)	375.00 TON
401665	SUPERPAVE, TYPE C HOT-MIX, 160 GYRATIONS, PG 64-22, PATCHING	20.00 TON
406001	HOT-MIX PATCHING	160.00 SY-IN
701021	INTEGRAL PORTLAND CEMENT CONCRETE CURB AND 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.
708500	REPLACING CATCH BASIN GRATES	1.00 EACH
708504	REPLACING CATCH BASIN FRAMES	1.00 EACH
710001	ADJUSTING AND REPAIRING EXISTING DRAINAGE INLET	1.00 EACH
710002	ADJUSTING AND REPAIRING EXISTING MANHOLE	3.00 EACH
718000	ROOF DRAINS	10.00 L.F.
732004	TOPSOIL (TON)	10.00 TON
734016	PERMANENT GRASS SEEDING, SUBDIVISION	30.00 S.Y.
743003	ARROWPANELS, TYPE C	2.00 EA-DY
743050	** FLAGGER, NEW CASTLE COUNTY, STATE	80.00 HOUR
743062	** FLAGGER, NEW CASTLE COUNTY, STATE, OVERTIME	8.00 HOUR
743512	FURNISH AND MAINTAIN TRUCK MOUNTED ATTENUATOR, TYPE I	2.00 EA-DY
748015	PERMANENT PAVEMENT STRIPING, SYMBOL/LEGEND ALKYD-THERMOPLASTIC	97.00 S.F.
748506	PERMANENT PAVEMENT STRIPING, EPOXY RESIN PAINT, 4"	132.00 L.F.
758000	REMOVAL OF EXISTING PORTLAND CEMENT CONCRETE PAVEMENT, CURB, SIDEWALK, ETC.	76.00 S.Y.
760006	PAVEMENT - MILLING, HOT-MIX, 2" DEPTH	3,000.00 S.Y.
762001	SAW CUTTING, HOT MIX	333.00 L.F.
762002	SAW CUTTING, CONCRETE, FULL DEPTH	28.00 L.F.

\*\* DENOTES FIXED PRICE ITEM

DELAWARE DEPARTMENT OF TRANSPORTATION

CONTRACT T201103103

PAGE 41 OF 43

NORTH  
MAINTENANCE

COMMUNITY TRANSPORTATION FUND, NORTH III, 2011

---

LOCATION 18 WELLINGTON HILLS - RIDON DRIVE FROM PIERSON DRIVE TO HOUSE # 19  
RIDON

LENGTH 99.9744 m 328 L.F.

GENERAL IMPROVEMENTS  
2" MILL AND OVERLAY

COMMENTS:

UNOFFICIAL

---

MATERIAL ESTIMATE FOR LOCATION 18

401511	REMOVE AND CONSTRUCT SPEED HUMP	22.00 L.F.
401644	SUPERPAVE, TYPE C HOT-MIX, 115 GYRATIONS, PG 64-22 (CARBONATE STONE)	110.00 TON
401667	SUPERPAVE, BITUMINOUS CONCRETE BASE COURSE, 160 GYRATIONS, PG 64-22 PATCHING	13.00 TON
710002	ADJUSTING AND REPAIRING EXISTING MANHOLE	3.00 EACH
743050	** FLAGGER, NEW CASTLE COUNTY, STATE	48.00 HOUR
743062	** FLAGGER, NEW CASTLE COUNTY, STATE, OVERTIME	5.00 HOUR
760006	PAVEMENT - MILLING, HOT-MIX, 2" DEPTH	880.00 S.Y.
762001	SAW CUTTING, HOT MIX	100.00 L.F.

\*\* DENOTES FIXED PRICE ITEM

COPY

DELAWARE DEPARTMENT OF TRANSPORTATION

CONTRACT: T201103103

PAGE 42 OF 43

NORTH  
MAINTENANCE

COMMUNITY TRANSPORTATION FUND, NORTH III, 2011

CONTRACT QUANTITIES SUMMARY SHEET

302007	GRADED AGGREGATE BASE COURSE, TYPE B	152.00 C.Y.
302008	GRADED AGGREGATE BASE COURSE, TYPE B, PATCHING	42.00 C.Y.
401511	REMOVE AND CONSTRUCT SPEED HUMP	162.00 L.F.
401644	SUPERPAVE, TYPE C HOT-MIX, 115 GYRATIONS, PG 64-22 (CARBONATE STONE)	4,790.00 TON
401665	SUPERPAVE, TYPE C HOT-MIX, 160 GYRATIONS, PG 64-22, PATCHING	242.00 TON
401667	SUPERPAVE, BITUMINOUS CONCRETE BASE COURSE, 160 GYRATIONS, PG 64-22 PATCHING	28.00 TON
406001	HOT-MIX PATCHING	2,105.00 SY-IN
701004	PORTLAND CEMENT CONCRETE VALLEY GUTTER, 8"	100.00 S.Y.
701010	PORTLAND CEMENT CONCRETE CURB, TYPE 1	430.00 L.F.
701021	INTEGRAL PORTLAND CEMENT CONCRETE CURB AND GUTTER, TYPE 2	2,350.00 L.F.
701022	INTEGRAL PORTLAND CEMENT CONCRETE CURB AND GUTTER, TYPE 3	100.00 L.F.
705001	P.C.C. SIDEWALK, 4"	676.00 S.F.
705002	P.C.C. SIDEWALK, 6"	1,352.00 S.F.
705007	SIDEWALK SURFACE DETECTABLE WARNING SYSTEM	300.00 S.F.
705009	CURB RAMP, TYPE 2, 3, AND/OR 4	5,250.00 S.F.
708500	REPLACING CATCH BASIN GRATES	1.00 EACH
708504	REPLACING CATCH BASIN FRAMES	1.00 EACH
710001	ADJUSTING AND REPAIRING EXISTING DRAINAGE INLET	12.00 EACH
710002	ADJUSTING AND REPAIRING EXISTING MANHOLE	37.00 EACH
718000	ROOF DRAINS	10.00 L.F.
732004	TOPSOIL (TON)	188.00 TON
734016	PERMANENT GRASS SEEDING, SUBDIVISION	526.00 S.Y.
735534	SOIL RETENTION BLANKET MULCH, TYPE 4	267.00 S.Y.
743003	ARROWPANELS, TYPE C	10.00 EA-DY
743050	** FLAGGER, NEW CASTLE COUNTY, STATE	1,456.00 HOUR
743062	** FLAGGER, NEW CASTLE COUNTY, STATE, OVERTIME	146.00 HOUR
743512	FURNISH AND MAINTAIN TRUCK MOUNTED ATTENUATOR, TYPE I	10.00 EA-DY
748015	PERMANENT PAVEMENT STRIPING, SYMBOL/LEGEND ALKYD-THERMOPLASTIC	97.00 S.F.

---

DELAWARE DEPARTMENT OF TRANSPORTATION

CONTRACT: T201103103

PAGE 43 OF 43

NORTH  
MAINTENANCE

COMMUNITY TRANSPORTATION FUND, NORTH III, 2011

---

CONTRACT QUANTITIES SUMMARY SHEET

748506	PERMANENT PAVEMENT STRIPING, EPOXY RESIN PAINT, 4"	132.00 L.F.
750000	ADJUST WATER VALVE BOXES	2.00 EACH
758000	REMOVAL OF EXISTING PORTLAND CEMENT CONCRETE PAVEMENT, CURB, SIDEWALK, ETC.	953.00 S.Y.
760006	PAVEMENT - MILLING, HOT-MIX, 2" DEPTH	37,320.00 S.Y.
760502	PAVEMENT MILLING, TAPER CUT	770.00 SY-IN
762001	SAW CUTTING, HOT MIX	4,232.00 L.F.
762002	SAW CUTTING, CONCRETE, FULL DEPTH	351.00 L.F.
763000	INITIAL EXPENSE	LUMP SUM
763643	MAINTENANCE OF TRAFFIC, ALL INCLUSIVE	LUMP SUM

\*\* DENOTES FIXED PRICE ITEM

COPY