



DEPARTMENT OF TRANSPORTATION  
OFFICE OF TRANSPORTATION SOLUTIONS  
PLANS AND SPECIFICATIONS FOR

CONTRACT NUMBER - T201206303.01

SOUTH MAINTENANCE

FEDERAL AID NUMBER - NONE

PRIMAVERA ID - 12-06303

CONTRACT TITLE - PAVEMENT & REHABILITATION - SOUTH II-III, 2012

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PLANS PREPARED BY: Paul Farkas  
DESIGN TECHNICIAN

DATE RECOMMENDED: 7/6/2011

Bradford L. Salvo  
GROUP ENGINEER, CONSTRUCTION

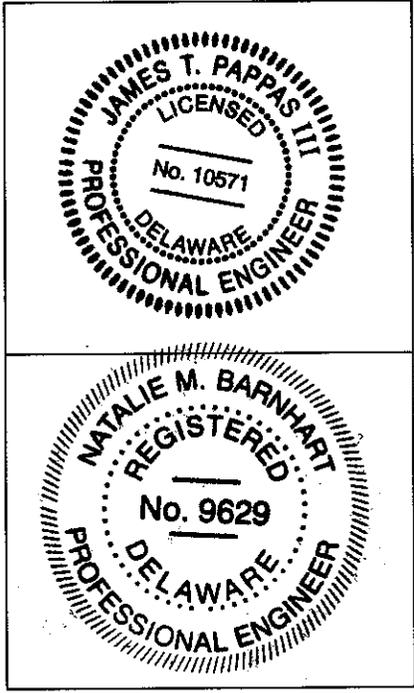
DATE RECOMMENDED: 7-24-11

James T. Pappas III  
ASSIST. DIRECTOR, DESIGN

DATE RECOMMENDED: July 26, 2011

Natalie Barnhart  
CHIEF ENGINEER

UNOFFICIAL  
WEBSITE  
COPY



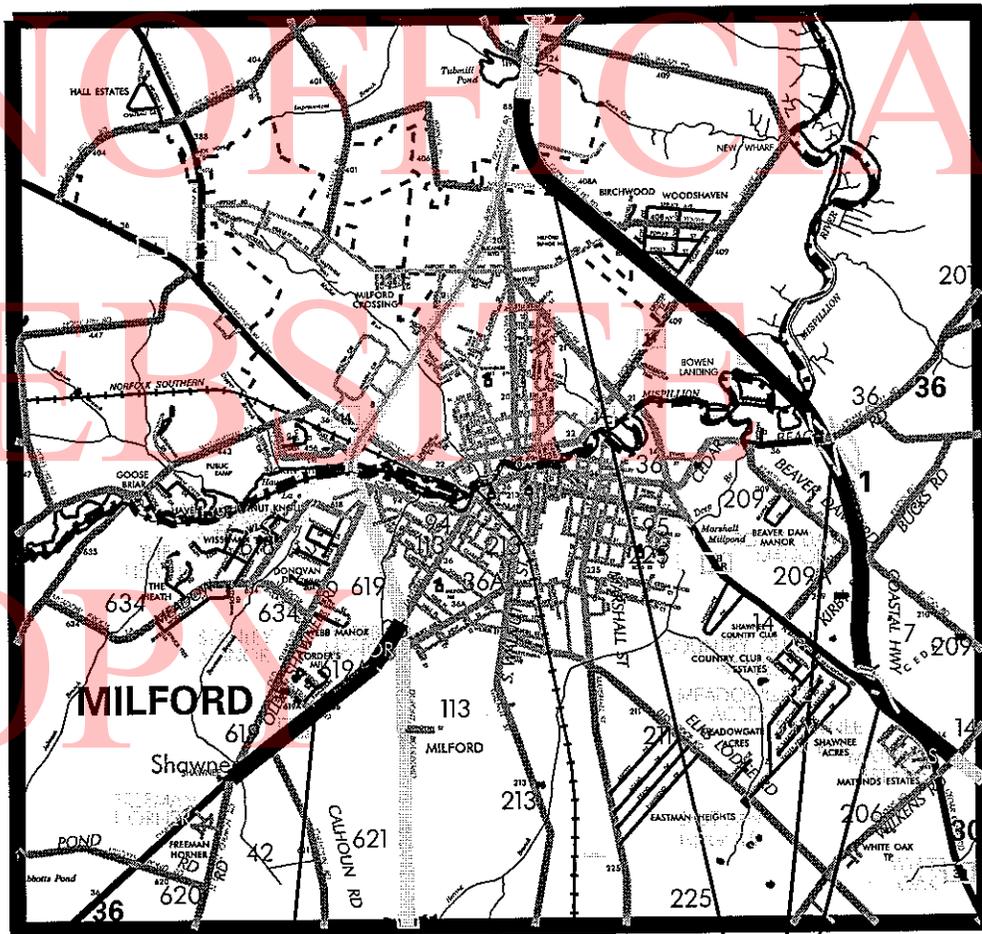
DEPARTMENT OF TRANSPORTATION

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SHAWNEE RD (36), RT 1 NB AND SB (14), RT 1 NB AND SB (7), MILFORD BYPASS (8A)

LOCATION MAP



Location 2

Location 1,3&4

PAVEMENT & REHABILITATION, SOUTH II-III, 2012

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GENERAL CONTRACT PLAN NOTES

REVISED 2/11

GENERAL

1. CONSTRUCTION OF THIS CONTRACT SHALL CONFORM TO DELAWARE DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS DATED AUGUST 2001 AS AMENDED BY THE SUPPLEMENTAL SPECIFICATIONS, THE SPECIAL PROVISIONS, THE MOST RECENT STANDARD CONSTRUCTION DETAILS, DELAWARE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES AND THESE PLANS.
2. THE PURPOSE OF THIS CONTRACT IS TO MAKE GENERAL IMPROVEMENTS TO ROADS AND/OR STREETS WITHIN THE DISTRICT HEREIN SPECIFIED. DEPENDING ON FUND AVAILABILITY, THE DEPARTMENT RESERVES THE RIGHT TO ADD OR DELETE LOCATIONS AND/OR QUANTITIES FOR THIS CONTRACT. SUCH LOCATION OR QUANTITY ADDITIONS OR DELETIONS SHALL NOT BE CAUSE FOR AN INCREASE OR DECREASE IN ANY CONTRACT UNIT BID PRICES. NO ITEM PRICES ARE TO BE RENEGOTIATED DUE TO EITHER AN INCREASE OR DECREASE IN QUANTITY USAGE RESULTING FROM SAID ADDITIONS OR DELETIONS.
3. THE CONTRACTOR SHALL PROVIDE ALL RESIDENTS AND BUSINESSES WHO LIVE ADJACENT TO THE WORK ZONE A MINIMUM 48 HR. PRIOR WRITTEN NOTICE FOR THE START OF CONSTRUCTION WORK. THIS NOTIFICATION SHALL INCLUDE THE SCOPE OF WORK, WORKING HOURS, ANTICIPATED START AND COMPLETION DATES, CONTRACTOR NAME & ADDRESS, AND DELDOT CONTACT NUMBERS. FAILURE TO GIVE PROPER NOTICE WILL RESULT IN A SUSPENSION OF WORK REQUIRING NOTICE, UNTIL PROPER NOTICE IS PROVIDED. ACCESS TO ALL BUSINESSES AND RESIDENCES WITHIN THE PROJECT LIMITS SHALL BE MAINTAINED THROUGHOUT THE DURATION OF THIS CONTRACT. ANY TEMPORARY CLOSURE OF A DRIVEWAY FOR TIE-IN PURPOSES SHALL BE COORDINATED WITH THE ENGINEER AND/OR PROPERTY OWNER IN ADVANCE OF THE CLOSURE.
4. THE CONTRACTOR SHALL SUBMIT THE REQUIRED COPIES OF A DETAILED PROGRESS SCHEDULE (PSC) AS OUTLINED IN STANDARD SPECIFICATION 108.04 PRIOR TO OR AT THE PRECONSTRUCTION MEETING. DETAILS SHALL INCLUDE A DESCRIPTION OF EACH WORK ACTIVITY, THE PLANNED DAYS OF WORK, MULTIPLE CREWS OR SHIFTS, AND SCHEDULED WORKING HOURS. DURING THE CONTRACT, THE CONTRACTOR SHALL SUBMIT TWO-WEEK (OR AS REQUIRED) "LOOK AHEAD" SCHEDULES TO THE AREA ENGINEER/ MANAGER NO LATER THAN NOON OF EACH THURSDAY. FAILURE TO COMPLY WILL RESULT IN A SUSPENSION OF ALL CONTRACT WORK WITH TIME CHARGES CONTINUING TO BE ASSESSED.

MAINTENANCE OF TRAFFIC AND PAVEMENT MARKINGS

5. AT THE PRECONSTRUCTION MEETING, THE CONTRACTOR SHALL SUBMIT DETAILED DRAWINGS (INCLUDING BUT NOT LIMITED TO EXISTING STRIPING LENGTHS, LANE AND SHOULDER WIDTHS, TURN LANE LENGTHS, LOCATIONS OF STOP BARS, TURN ARROWS, CROSSWALKS AND RAILROAD CROSSINGS) THAT DEPICT THE EXISTING PAVEMENT MARKINGS FOR EACH PROJECT LOCATION. THESE DRAWINGS WILL BE REVIEWED BY THE DEPARTMENT'S TRAFFIC SECTION TO DETERMINE IF ANY CHANGES TO THE FINAL PAVEMENT MARKINGS ARE REQUIRED. FINAL PAVEMENT MARKINGS SHALL CONFORM TO ALL EXISTING PATTERNS UNLESS OTHERWISE DIRECTED BY THE ENGINEER.

THE DEPARTMENT WILL PROVIDE STRIPING LAYOUT AT LOCATIONS WHERE NO PAVEMENT MARKINGS PREVIOUSLY EXISTED. IF DEPARTMENT FORCES PROVIDE STRIPING LAYOUT ON LOCATIONS WHERE MARKINGS PREVIOUSLY EXISTED, THEN THE CONTRACTOR SHALL REIMBURSE THE DEPARTMENT FOR THE LAYOUT COSTS.

UNLESS OTHERWISE DIRECTED BY THE ENGINEER, WHITE EDGE LINES SHALL WRAP AROUND THE

PAVEMENT & REHABILITATION, SOUTH II-III, 2012

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**GENERAL CONTRACT PLAN NOTES**

RADIUS OF ALL SIDE STREETS AND MAJOR COMMERCIAL ENTRANCES TO A TANGENT POINT. YELLOW CENTERLINES SHALL BE CONTINUOUS AROUND MEDIAN ISLANDS. ALL DOUBLE YELLOW CENTERLINES SHALL BE PLACED IN A 4-6-4 CONFIGURATION (2 EACH, 5" YELLOW STRIPES WITH A 6" GAP BETWEEN).

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

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

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

8. ALL WORK SHALL BE PERFORMED IN A MANNER THAT WILL REASONABLY PROVIDE THE LEAST PRACTICABLE OBSTRUCTION TO ALL ROAD USERS, INCLUDING VEHICULAR, PEDESTRIAN AND BICYCLE TRAFFIC, AND SHALL CONFORM TO THE REQUIREMENTS OF THE DELAWARE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES, PART 6, INCLUDING ALL REVISIONS UP TO THE DATE OF ADVERTISEMENT FOR BIDS.

9. 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.

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

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

12. STOP LINES "BARS" SHALL BE PLACED AT ALL STOP SIGNS AND SHALL BE 16 INCHES WIDE AS PER THE MUTCD MANUAL SECTION 3B.16 DeIDOT REVISION.

13. ALL CROSSWALKS SHALL BE NO LESS THAN 6 FEET IN WIDTH AS PER THE MUTCD MANUAL SECTION 3B.17 DeIDOT REVISION.

PROJECT

## PAVEMENT &amp; REHABILITATION, SOUTH II-III, 2012

## GENERAL CONTRACT PLAN NOTES

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

15. THE COST OF CLIPPING BACK THE EDGES OF THE ROADWAY, SHOULDERS, AND THE FIRST 3' OF UNPAVED DRIVEWAY ENTRANCES, PICKING UP AND DISPOSING OF WASTE AND EXCESS MATERIAL, AND CLEANING THE EXISTING PAVEMENT PRIOR TO OVERLAY SHALL BE INCIDENTAL TO SECTION 401(.). PREPARING UNPAVED DRIVEWAY ENTRANCES BEYOND THE FIRST 3' SHALL BE PAID UNDER THE APPROPRIATE CONTRACT ITEMS: 202000 AND/OR 30200X.

16. BUTT JOINTS SHALL BE PLACED AT ALL INTERSECTING HOT MIX ROADS AND ANY OTHER LOCATIONS AS DIRECTED BY THE ENGINEER. BUTT JOINTS AT DRAINAGE STRUCTURES NOT TO BE RESURFACED SHALL BE AS PER THE INCLUDED PLAN DETAIL OR LOCATION NOTES. BUTT JOINTS CUT PRIOR TO THE DAY OF THE PAVEMENT OVERLAY SHALL BE RAMPED WITH HOT MIX TRM. IN MILLING AREAS, THERE WILL BE NO SEPARATE PAYMENT FOR BUTT JOINTS. AFTER PAVEMENT MILLING, ALL TRANSVERSE VERTICAL DIFFERENCES, RAISED EDGES OF MANHOLES, CATCH BASINS, WATER VALVE BOXES, ETC...SHALL BE RAMPED WITH HOT-MIX TRM AT A 20:1 OR FLATTER SLOPE PRIOR TO OPENING THE ROADWAY TO TRAFFIC. PAVEMENT MILLINGS WILL NOT BE ALLOWED FOR USE AS RAMPING MATERIAL.

17. TAPER MILLING IS INTENDED FOR MILLING IN THE AREA OF FIXED STRUCTURES (I.E. CURBS GUARDRAIL, ETC.) THE MILLED DEPTH AT THE STRUCTURE SHALL BE THE DEPTH OF THE PROPOSED OVERLAY AND 0" AT A DISTANCE OF +/- 6½' FROM THE STRUCTURE. THE COMPUTED DEPTH FOR PAYMENT PURPOSES IS THE AVERAGE OF THE TWO DEPTHS.

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

19. EXCAVATION FOR P.C.C. CURBS, SIDEWALK OR VALLEY GUTTER SHALL BE INCIDENTAL TO THE BID PRICE FOR THESE RESPECTIVE ITEMS. EXCAVATED MATERIAL, NOT NEEDED ON THE PROJECT, SHALL BE REMOVED FROM THE CONTRACT AT THE CONTRACTORS EXPENSE. ITEM 732XXX, TOPSOIL, SHALL BE USED AS BACKFILL MATERIAL FOR CURB AND SIDEWALK AS DIRECTED BY THE ENGINEER. TOPSOIL SHALL BE SCREENED/SIFTED SO AS NO MATERIAL GREATER THAN .5" IS PRESENT IN MATERIAL USED FOR BACKFILL. AT EACH LOCATION, BACKFILLING SHALL BE PERFORMED IMMEDIATELY UPON REMOVAL OF FORMS FOR CURB OR SIDEWALK WORK. COMPLETE RESTORATION, TOPSOIL, SEEDING, AND REMOVAL OF ALL MATERIALS FOR CURB & GUTTER OR SIDEWALK; SEALING OF VALLEY GUTTERS AND PARGING OF CATCH BASINS, SHALL BE COMPLETED WITHIN SEVEN (7) CALENDAR DAYS OF COMPLETION OF THE ITEM OF WORK. FAILURE TO COMPLY WILL RESULT IN A SUSPENSION OF ALL OTHER CONTRACT WORK WITH TIME CHARGES CONTINUING TO BE ASSESSED.

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

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

22. THE CONTRACTOR SHALL TAKE CARE IN REMOVING PAVEMENT AROUND UTILITIES, BUTT JOINTS, CURBS, ETC. SO THAT EXISTING PAVEMENT BEYOND THE SPECIFIED DEPTHS IS NOT DAMAGED. ANY

PAVEMENT & REHABILITATION, SOUTH II-III, 2012

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**GENERAL CONTRACT PLAN NOTES**

DAMAGE CAUSED BY THE CONTRACTOR'S OPERATIONS MAY RESULT IN PLACING LEVELING COURSES AT THE CONTRACTOR'S EXPENSE. THE REMOVAL AND CLEAN UP OF THE HOT MIX RESIDUE WEDGE REMAINING AFTER MILLING OPERATIONS SHALL BE INCIDENTAL TO THE MILLING ITEM. THE REMOVAL OF EXISTING RAISED PAVEMENT MARKERS (RPM'S) SHALL BE INCIDENTAL TO THE APPLICABLE MILLING AND/OR RECLAMATION ITEMS.

23. ALL PORTLAND CEMENT CONCRETE MUST BE RECEIVED FROM AN APPROVED PRODUCTION PLANT UNLESS OTHERWISE APPROVED BY THE ENGINEER. ONLY CALIBRATED VOLUMETRIC CONCRETE TRUCKS WILL BE PERMITTED TO PROVIDE ON-SITE MIXTURES. THIS PERTAINS TO BOTH WORK OCCURRING DURING NORMAL WORKING HOURS AND NIGHTTIME RESTRICTED WORK.

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

25. THE PORTLAND CEMENT CONCRETE USED WITHIN ITEM 701002 - ADJUST AND REPAIR EXISTING MAN HOLES AND ITEM 750000 - ADJUST WATER VALVE BOX SHALL CONFORM TO THE REQUIREMENTS OF CLASS A CONCRETE AS STATED WITHIN SECTION 503.02 OF THE DEPARTMENT'S STANDARD SPECIFICATIONS.

26. THE CONTRACTOR SHALL MAINTAIN ACCESS TO AND ALONG PEDESTRIAN FACILITIES AT ALL TIMES DURING CONSTRUCTION. EARTH, STONE AND GRAVEL SURFACES ARE NOT ACCEPTABLE FOR PROVIDING PEDESTRIAN ACCESS. WHERE PEDESTRIAN ROUTES ARE CLOSED OR BLOCKED, ALTERNATE PEDESTRIAN ACCESS SHALL BE PROVIDED USING CASE 16 OF THE DELAWARE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES OR TO THE SATISFACTION OF THE ENGINEER. PEDESTRIAN DETOUR ROUTES OR ALTERNATE PEDESTRIAN FACILITIES SHALL CONSIST OF ADA COMPLIANT FACILITIES TO THE LEVEL OF WHICH EXISTS ON THE PEDESTRIAN ROUTE. THE COST FOR ANY PROVISIONS SHALL BE INCIDENTAL TO ITEM 763XXX - MAINTENANCE OF TRAFFIC.

27. A AMERICAN TRAFFIC SAFETY SERVICES ASSOCIATION (ATSSA) CERTIFIED TRAFFIC CONTROL SUPERVISOR SHALL BE REQUIRED FOR ALL LOCATIONS SPECIFIED IN THE CONTRACT PLANS.

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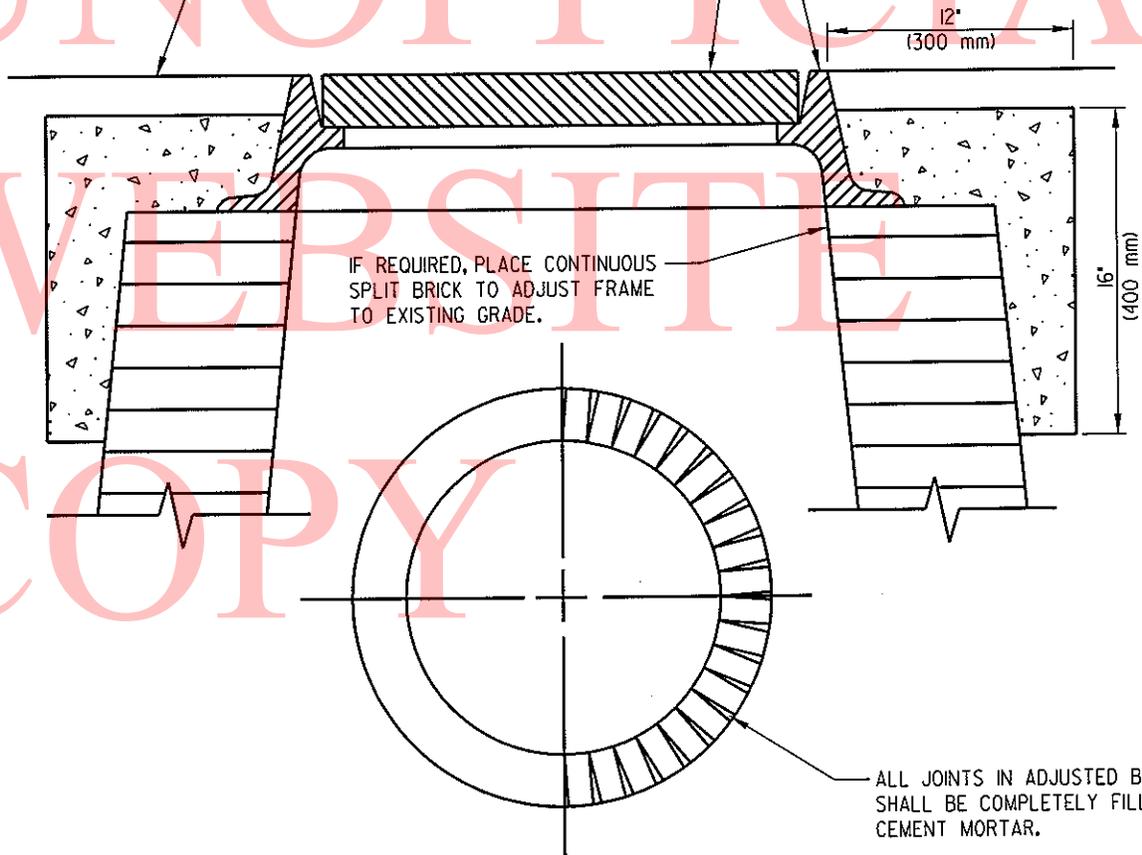
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SOUTH MAINTENANCE SHAWNEE RD (36), RT 1 NB AND SB (14), RT 1 NB AND SB (7), MILFOR

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 AND RECOLLAR. NEW FRAME AND COVER (IF REQUIRED) TO BE PROVIDED BY OWNER.

REMOVE HOT MIX AND CONCRETE COLLAR FROM AROUND MANHOLE.



ADJUSTING AND REPAIRING MANHOLE

N.T.S.

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

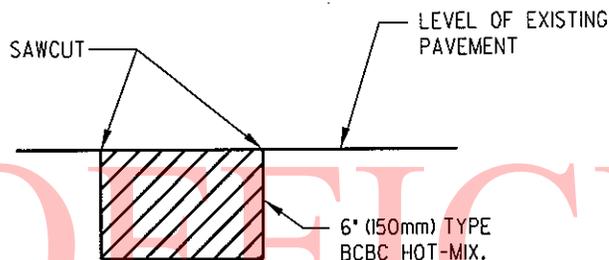
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SOUTH MAINTENANCE SHAWNEE RD (36), RT 1 NB AND SB (14), RT 1 NB AND SB (7), MILFOR

DETAILS SHEET



HOT MIX PATCH DETAIL

N.T.S.

**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.

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

P.C.C. PATCHING NOTES

DELAWARE DEPARTMENT OF TRANSPORTATION

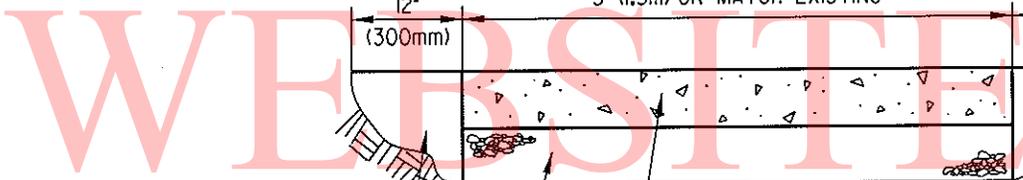
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SOUTH MAINTENANCE SHAWNEE RD (36), RT 1 NB AND SB (14), RT 1 NB AND SB (7), MILFOR

DETAILS SHEET

UNOFFICIAL



COPY

P.C.C. SIDEWALK

N.T.S.

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

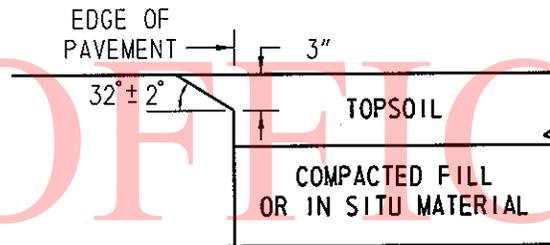
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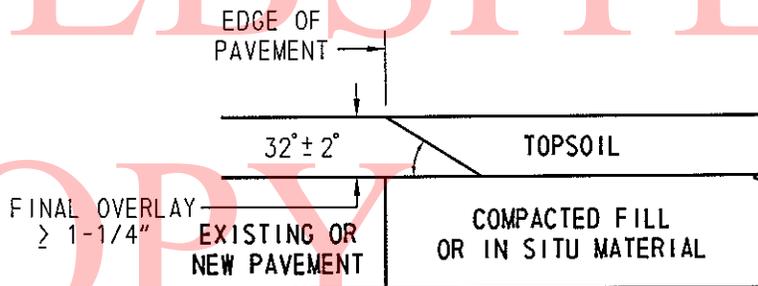
SOUTH MAINTENANCE SHAWNEE RD (36), RT 1 NB AND SB (14), RT 1 NB AND SB (7), MILFOR

DETAILS SHEET



CONCRETE PAVEMENTS

NOT TO SCALE



HOT-MIX PAVEMENTS AND OVERLAYS

NOT TO SCALE

SAFETY EDGE DETAIL

NOT TO SCALE

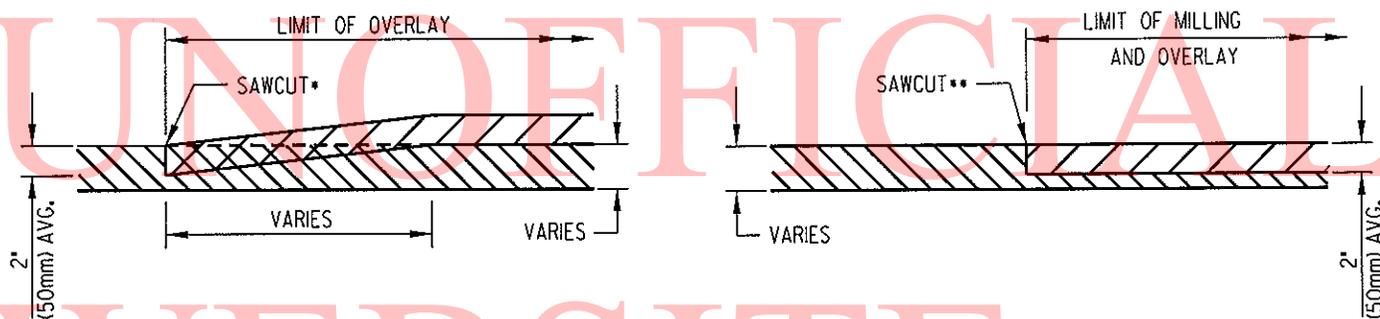
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SOUTH MAINTENANCE SHAWNEE RD (36), RT 1 NB AND SB (14), RT 1 NB AND SB (7), MILFOR

DETAILS SHEET



- LEGEND**
-  — PROPOSED OVERLAY
  -  — EXISTING PAVEMENT
  -  — EXISTING PAVEMENT TO BE REMOVED

**BUTT JOINT  
FOR OVERLAY SECTION\***

PAYMENT UNDER ITEM 76100L.  
\*SAWCUT IS INCIDENTAL TO ITEM 76100L.

- LEGEND**
-  — PROPOSED FULL WIDTH MILLING AND HOT MIX OVERLAY
  -  — EXISTING PAVEMENT (TO REMAIN)

**HOT MIX JOINT  
FOR FULL WIDTH MILLING SECTION\*\***

PAYMENT INCIDENTAL TO ITEM 760XXX, MILLING.  
\*\*SAWCUT SHALL BE PAID UNDER ITEM 76200L.

**NOTE:** THE FOLLOWING LENGTHS ARE BASED ON THE POSTED SPEED OF THE ROADWAY:  
 LESS THAN 50 MPH = 20 FT (6m) PER 1" (25mm) OF OVERLAY DEPTH.  
 EQUAL TO OR GREATER THAN 50 MPH = 30 FT (9.1m) PER 1" (25mm) OF OVERLAY DEPTH.  
 AT STOP SIGNS = 15 FT (4.6m) PER 1" (25mm) OF OVERLAY DEPTH.

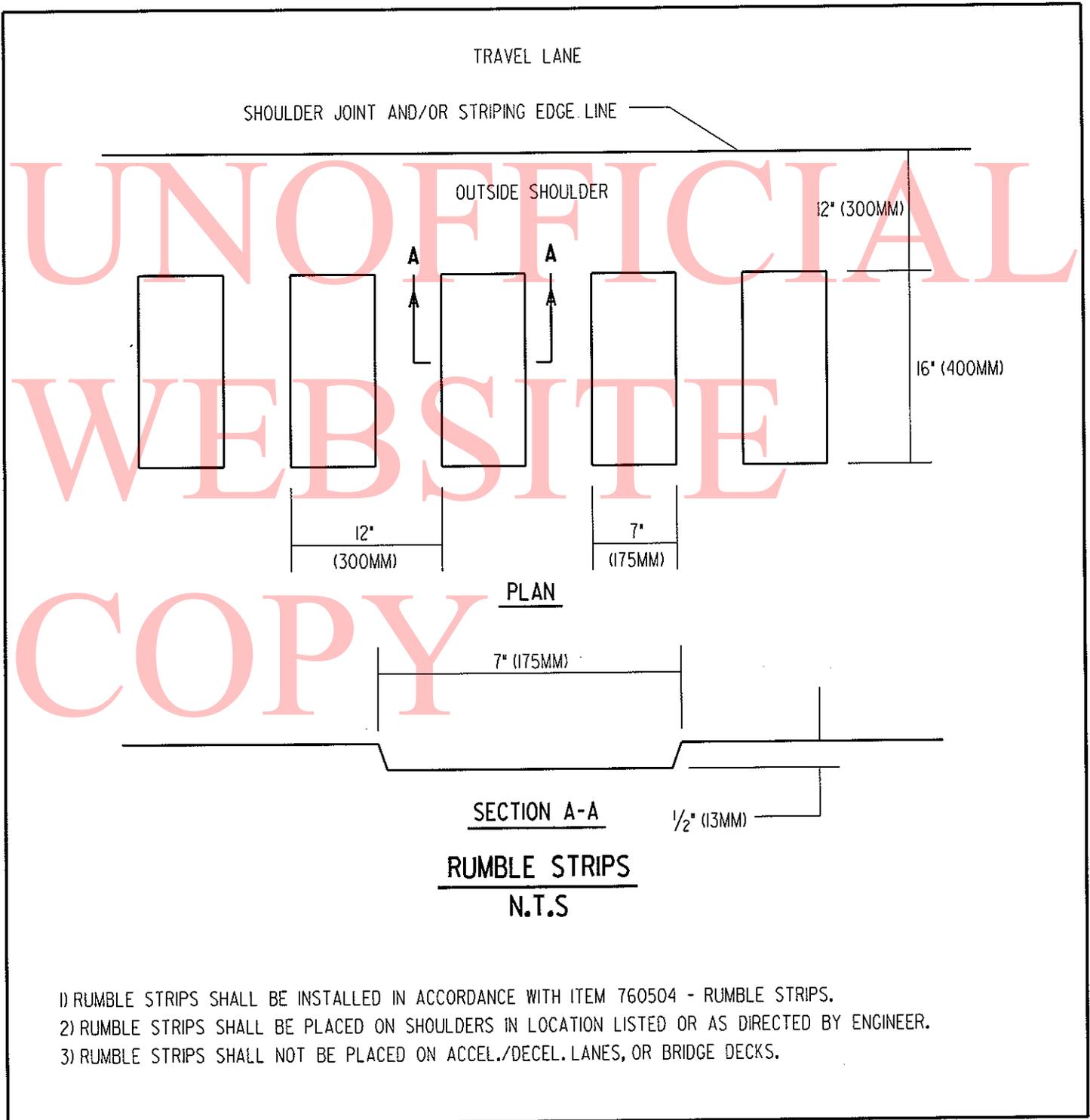
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SOUTH MAINTENANCE SHAWNEE RD (36), RT 1 NB AND SB (14), RT 1 NB AND SB (7), MILFOR

DETAILS SHEET



**RUMBLE STRIPS**  
N.T.S

- 1) RUMBLE STRIPS SHALL BE INSTALLED IN ACCORDANCE WITH ITEM 760504 - RUMBLE STRIPS.
- 2) RUMBLE STRIPS SHALL BE PLACED ON SHOULDERS IN LOCATION LISTED OR AS DIRECTED BY ENGINEER.
- 3) RUMBLE STRIPS SHALL NOT BE PLACED ON ACCEL./DECEL. LANES, OR BRIDGE DECKS.

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DELAWARE DEPARTMENT OF TRANSPORTATION

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SOUTH MAINTENANCE SHAWNEE RD (36), RT 1 NB AND SB (14), RT 1 NB AND SB (7), MILFOR

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DETAILS SHEET

Section 100 Project Note:

Unless otherwise noted on the plans, the Contractor shall, as part of his Project Schedule, submit to the Engineer an estimate of the monthly payments expected to be received on the contract. This will be referenced as the "Monthly Payment Chart".

A chart in Microsoft Excel, Microsoft Word, or hand written format will be acceptable for this purpose. The chart should include, as a minimum, columns for the month, year, and estimated monthly payments. The total of all estimated monthly payments should equal the awarded contract total bid price.

The Engineer may request an updated "Monthly Payment Chart" at his discretion, depending on the accuracy of the initial estimates and according to the overall needs of the Department.

The "Monthly Payment Chart" will not be considered a binding document by either the Contractor or the Department and is considered solely informational.

On projects requiring CPM Schedules, the Contractor may, but is not required to, "Cost Load" the CPM Schedule in order to generate the monthly payment estimates.

Costs to prepare and/or update the "Monthly Payment Chart" are addressed as follows:

- a. On Contracts requiring CPM Schedules and Updates, preparation of the initial chart shall be incidental to Item 763508. Updates shall be incidental to Item 763509.
- b. On contracts not requiring CPM Schedules, the cost to prepare and update the "Monthly Payment Chart" shall be included in Item 763000, Initial Expense.

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SOUTH  
MAINTENANCE

PAVEMENT & REHABILITATION, SOUTH II-III, 2012

**LOCATION 1** COASTAL HWY(S14) NORTHBOUND & SOUTHBOUND FROM 500' NORTH OF CEDAR NECK RD(S206) TO COASTAL HWY(S7)

LENGTH 938.784 m 3080 L.F. AADT 24665

**GENERAL IMPROVEMENTS**

2" WARM-MIX FULL WIDTH OVERLAY.

**COMMENTS:**

Please see attached sheets for comments

**MATERIAL ESTIMATE FOR LOCATION 1**

401696	ENTRANCE, DRIVEWAY AND INTERSECTING STREET PAVING SURCHARGE	60.00 TON
401801	WMA, SUPERPAVE, TYPE C, 160 GYRATIONS, PG 64-22 (CARBONATE STONE)	1,500.00 TON
401823	WMA, SUPERPAVE, BITUMINOUS CONCRETE BASE COURSE, 160 GYRATIONS, PG 64-22, PATCHING	24.00 TON
401830	WMA, SUPERPAVE, TYPE C, 160 GYRATIONS, PG 70-22 (NON-CARBONATE STONE)	1,000.00 TON
406001	HOT-MIX PATCHING	400.00 SY-IN
732004	TOPSOIL (TON)	85.00 TON
734013	PERMANENT GRASS SEEDING, DRY GROUND	1,027.00 S.Y.
743003	ARROW PANELS, TYPE C	14.00 EA-DY
743004	FURNISH AND MAINTAIN PORTABLE CHANGEABLE MESSAGE SIGN	28.00 EA-DY
743005	FURNISH AND MAINTAIN PORTABLE LIGHT ASSEMBLY	28.00 EA-DY
743007	** TRAFFIC OFFICERS	140.00 HOUR
743010	FURNISH AND MAINTAIN TRUCK MOUNTED ATTENUATOR, TYPE II	7.00 EA-DY
743052	** FLAGGER, SUSSEX COUNTY, STATE	280.00 HOUR
743064	** FLAGGER, SUSSEX COUNTY, STATE, OVERTIME	42.00 HOUR
748015	PERMANENT PAVEMENT STRIPING, SYMBOL/LEGEND ALKYD-THERMOPLASTIC	410.00 S.F.
748019	TEMPORARY MARKINGS, PAINT, 4"	11,572.00 L.F.
748026	TEMPORARY MARKINGS, PAINT SYMBOL/LEGEND	410.00 S.F.
748502	RAISED/RECESSED PAVEMENT MARKER	40.00 EACH
748548	PERMANENT PAVEMENT STRIPING, EPOXY RESIN PAINT, WHITE/YELLOW, 5"	11,572.00 L.F.
760504	RUMBLE STRIPS, HOT MIX	6,160.00 L.F.
761001	BUTT JOINTS, HOT MIX	1,395.00 S.Y.
762001	SAW CUTTING, HOT MIX	182.00 L.F.

\*\* DENOTES FIXED PRICE ITEM

SOUTH  
MAINTENANCE

PAVEMENT & REHABILITATION, SOUTH II-III, 2012

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LOCATION 1 COASTAL HWY(S14) NORTHBOUND & SOUTHBOUND FROM 500' NORTH OF CEDAR  
NECK RD(S206) TO COASTAL HWY(S7)

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COMMENTS:

1. RECOMMENDED M.O.T. CASE NO. 7 (TRAVEL LANES).  
CASE NO. 3 (SHOULDERS).
2. NIGHTTIME WORK HOURS: 8:00PM TO 6:00AM.
3. SUMMER SEASON LANE CLOSURES ARE NOT PERMITTED BETWEEN MAY 23 TO SEPT. 12, 2011.
4. ON THE MAIN CONSTRUCTION ROAD AND ALL INTERSECTING ROADS, "ROAD WORK AHEAD AND END" SIGNS FACING THE TRAFFIC SHALL BE PLACED AT 1500', 1000' AND 500' APPROACHING THE WORK ZONE. IN THOSE CASES, WHERE IT IS DIFFICULT TO MEET THE ABOVE CRITERIA BECAUSE OF DISTANCE LIMITATIONS, THE SIGN SHALL BE PLACED AS DIRECTED BY THE FIELD ENGINEER.
5. COORDINATION WITH ADJACENT CONTRACTOR FOR CONTRACT NO. 28-122-01 MAY BE NECESSARY FOR M.O.T. LANE CLOSURES AND SIGNAGE.
6. GABC ITEM 302005 AND QUANTITY IS FOR UNIMPROVED DRIVEWAYS.
7. 2" TAPER MILL IN FRONT OF EXISTING CURB.
8. THE TEMPORARY STRIPING SHALL BE PAID FOR ONE TIME PER LIFT.
9. HOT-MIX OVERLAY NOTES\*  
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USE 70-22 (NC) TYPE C WARM-MIX FOR TRAVEL LANES AND INTERSECTIONS.  
USE 64-22 (C) TYPE C WARM-MIX FOR TURN LANES, MEDIAN CROSSOVERS AND OUTSIDE SHOULDERS.  
  
\*THE REMOVAL OF EXISTING RAISED PAVEMENT MARKERS SHALL BE INCIDENTAL TO THE OVERLAY INCLUDING PLACING BACK COMPACTED HOT-MIX MATERIAL TO FILL THE EXPOSED VOID.  
  
A MATERIAL TRANSFER VEHICLE SHALL BE USED FOR MAINLINE PAVING OPERATIONS.  
  
ALL PAVING OPERATIONS MUST BE COMPLETED IN ONE DIRECTION, EITHER NORTHBOUND OR SOUTHBOUND, BEFORE PAVING OPERATIONS CAN BEGIN IN THE OTHER DIRECTION.  
  
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THIS LOCATION SHALL MEET THE TOLERANCES OF SUBSECTION 401580 - RIDE QUALITY OF HOT-MIX PAVEMENT REQUIREMENTS, AS SPECIFIED IN THE SPECIAL PROVISIONS.  
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SOUTH  
MAINTENANCE

PAVEMENT & REHABILITATION, SOUTH II-III, 2012

LOCATION 2                      SHAWNEE RD(S36) FROM HMJ @ N. UNION CHURCH RD(S42) TO HMJ @ US113  
DUPONT HWY(S113)

LENGTH      1914.144 m                      6280 L.F.                      AADT      3072

GENERAL IMPROVEMENTS

HM PATCHING AND 1 1/2" WARM-MIX (64-22,C) FULL WIDTH OVERLAY.

COMMENTS:

Please see attached sheets for comments

MATERIAL ESTIMATE FOR LOCATION 2

302005	GRADED AGGREGATE BASE COURSE, TYPE B	83.00 TON
401696	ENTRANCE, DRIVEWAY AND INTERSECTING STREET PAVING SURCHARGE	115.00 TON
401801	WMA, SUPERPAVE, TYPE C, 160 GYRATIONS, PG 64-22 (CARBONATE STONE)	2,890.00 TON
401823	WMA, SUPERPAVE, BITUMINOUS CONCRETE BASE COURSE, 160 GYRATIONS, PG 64-22, PATCHING	90.00 TON
406001	HOT-MIX PATCHING	1,600.00 SY-IN
705002	P.C.C. SIDEWALK, 6"	441.00 S.F.
710001	ADJUSTING AND REPAIRING EXISTING DRAINAGE INLET	2.00 EACH
710002	ADJUSTING AND REPAIRING EXISTING MANHOLE	5.00 EACH
732004	TOPSOIL (TON)	90.00 TON
734013	PERMANENT GRASS SEEDING, DRY GROUND	2,105.00 S.Y.
743010	FURNISH AND MAINTAIN TRUCK MOUNTED ATTENUATOR, TYPE II	14.00 EA-DY
743052	** FLAGGER, SUSSEX COUNTY, STATE	510.00 HOUR
743064	** FLAGGER, SUSSEX COUNTY, STATE, OVERTIME	90.00 HOUR
746774	SUPPLY AND INSTALLATION OF LOOP DETECTOR WIRE	200.00 L.F.
746776	LOOP DETECTOR SPLICE	2.00 EACH
748015	PERMANENT PAVEMENT STRIPING, SYMBOL/LEGEND ALKYD-THERMOPLASTIC	236.00 S.F.
748019	TEMPORARY MARKINGS, PAINT, 4"	23,000.00 L.F.
748502	RAISED/RECESSED PAVEMENT MARKER	90.00 EACH
748548	PERMANENT PAVEMENT STRIPING, EPOXY RESIN PAINT, WHITE/YELLOW, 5"	22,700.00 L.F.
758000	REMOVAL OF EXISTING PORTLAND CEMENT CONCRETE PAVEMENT, CURB, SIDEWALK, ETC.	49.00 S.Y.
760502	PAVEMENT MILLING, TAPER CUT	295.00 SY-IN
760507	PROFILE MILLING, HOT-MIX	900.00 SY-IN
761001	BUTT JOINTS, HOT MIX	985.00 S.Y.
762001	SAW CUTTING, HOT MIX	706.00 L.F.
762002	SAW CUTTING, CONCRETE, FULL DEPTH	115.00 L.F.

\*\* DENOTES FIXED PRICE ITEM

SOUTH  
MAINTENANCE

PAVEMENT &amp; REHABILITATION, SOUTH II-III, 2012

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**LOCATION 2    SHAWNEE RD(S36) FROM HMJ @ N. UNION CHURCH RD(S42) TO HMJ @ US113  
DUPONT HWY(S113)**

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**COMMENTS:**

1. RECOMMENDED M.O.T. CASE NO. 6 (TRAVEL LANES).  
CASE NO. 2 (SHOUDLERS).
2. DAYTIME WORK HOURS: 9:00AM TO 3:00PM.
3. ON THE MAIN CONSTRUCTION ROAD AND ALL INTERSECTING ROADS, "ROAD WORK AHEAD AND END" SIGNS FACING THE TRAFFIC SHALL BE PLACED AT 1500', 1000' AND 500' APPROACHING THE WORK ZONE. IN THOSE CASES, WHERE IT IS DIFFICULT TO MEET THE ABOVE CRITERIA BECAUSE OF DISTANCE LIMITATIONS, THE SIGN SHALL BE PLACED AS DIRECTED BY THE FIELD ENGINEER.
4. GABC ITEM 302005 AND QUANTITY IS FOR UNIMPROVED DRIVEWAYS.
5. P.C.C. REMOVAL AND 6" SIDEWALK ITEMS ARE FOR CONCRETE DRIVEWAYS.
6. 1 1/2" TAPER MILL IN FRONT OF EXISTING CURB.
7. 1 1/2" MILLING THRU CURBED AREAS @ US113.
8. THE TEMPORARY STRIPING SHALL BE PAID FOR ONE TIME PER LIFT.
9. THE REMOVAL OF EXISTING RAISED PAVEMENT MARKERS SHALL BE INCIDENTAL TO THE OVERLAY INCLUDING PLACING BACK COMPACTED HOT-MIX MATERIAL TO FILL THE EXPOSED VOID.

COPY

SOUTH  
MAINTENANCE

PAVEMENT & REHABILITATION, SOUTH II-III, 2012

**LOCATION 3** COASTAL HWY NORTHBOUND & SOUTHBOUND(S7) FROM COASTAL HWY(S14)  
TO KENT COUNTY LINE

LENGTH 5583.936 m 18320 L.F. AADT 24665

**GENERAL IMPROVEMENTS**

HM PATCHING AND 2" WARM-MIX FULL WIDTH OVERLAY.

**COMMENTS:**

Please see attached sheets for comments

**MATERIAL ESTIMATE FOR LOCATION 3**

401696	ENTRANCE, DRIVEWAY AND INTERSECTING STREET PAVING SURCHARGE	100.00 TON
401801	WMA, SUPERPAVE, TYPE C, 160 GYRATIONS, PG 64-22 (CARBONATE STONE)	5,710.00 TON
401823	WMA, SUPERPAVE, BITUMINOUS CONCRETE BASE COURSE, 160 GYRATIONS, PG 64-22, PATCHING	260.00 TON
401830	WMA, SUPERPAVE, TYPE C, 160 GYRATIONS, PG 70-22 (NON- CARBONATE STONE)	5,550.00 TON
406001	HOT-MIX PATCHING	4,490.00 SY-IN
710001	ADJUSTING AND REPAIRING EXISTING DRAINAGE INLET	1.00 EACH
732004	TOPSOIL (TON)	500.00 TON
734013	PERMANENT GRASS SEEDING, DRY GROUND	6,100.00 S.Y.
743003	ARROWPANELS, TYPE C	32.00 EA-DY
743004	FURNISH AND MAINTAIN PORTABLE CHANGEABLE MESSAGE SIGN	28.00 EA-DY
743005	FURNISH AND MAINTAIN PORTABLE LIGHT ASSEMBLY	128.00 EA-DY
743007	** TRAFFIC OFFICERS	500.00 HOUR
743010	FURNISH AND MAINTAIN TRUCK MOUNTED ATTENUATOR, TYPE II	32.00 EA-DY
743052	** FLAGGER, SUSSEX COUNTY, STATE	1,280.00 HOUR
743064	** FLAGGER, SUSSEX COUNTY, STATE, OVERTIME	192.00 HOUR
748015	PERMANENT PAVEMENT STRIPING, SYMBOL/LEGEND ALKYD-THERMOPLAST IC	31.00 S.F.
748019	TEMPORARY MARKINGS, PAINT, 4"	50,864.00 L.F.
748026	TEMPORARY MARKINGS, PAINT SYMBOL/LEGEND	31.00 S.F.
748502	RAISED/RECESSED PAVEMENT MARKER	229.00 EACH
748548	PERMANENT PAVEMENT STRIPING, EPOXY RESIN PAINT, WHITE/YELLOW, 5"	50,864.00 L.F.
760504	RUMBLE STRIPS, HOT MIX	32,670.00 L.F.
761001	BUTT JOINTS, HOT MIX	1,630.00 S.Y.
762001	SAW CUTTING, HOT MIX	3,276.00 L.F.

\*\* DENOTES FIXED PRICE ITEM

SOUTH  
MAINTENANCE

PAVEMENT & REHABILITATION, SOUTH II-III, 2012

LOCATION 3 COASTAL HWY NORTHBOUND & SOUTHBOUND(S7) FROM COASTAL HWY(S14) TO  
KENT COUNTY LINE

COMMENTS:

1. RECOMMENDED M.O.T. CASE NO. 7 (TRAVEL LANES).  
CASE NO. 3 (SHOULDERS).
2. NIGHTTIME WORK HOURS: 8:00PM TO 6:00AM.
3. SUMMER SEASON LANE CLOSURES ARE NOT PERMITTED BETWEEN MAY 23 TO SEPT. 12, 2011.
4. ON THE MAIN CONSTRUCTION ROAD AND ALL INTERSECTING ROADS, "ROAD WORK AHEAD AND END" SIGNS FACING THE TRAFFIC SHALL BE PLACED AT 1500', 1000' AND 500' APPROACHING THE WORK ZONE. IN THOSE CASES, WHERE IT IS DIFFICULT TO MEET THE ABOVE CRITERIA BECAUSE OF DISTANCE LIMITATIONS, THE SIGN SHALL BE PLACED AS DIRECTED BY THE FIELD ENGINEER.
5. COORDINATION WITH ADJACENT CONTRACTOR FOR CONTRACT NO. 28-122-01 MAY BE NECESSARY FOR M.O.T. LANE CLOSURES AND SIGNAGE.
6. GABC ITEM 302005 AND QUANTITY IS FOR UNIMPROVED DRIVEWAYS.
7. THE TEMPORARY STRIPING SHALL BE PAID FOR ONE TIME PER LIFT.
8. HOT-MIX OVERLAY NOTES\*  
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USE 70-22 (NC) TYPE C WARM-MIX FOR TRAVEL LANES AND INTERSECTIONS.  
USE 64-22 (C) TYPE C WARM-MIX FOR TURN LANES, MEDIAN CROSSOVERS AND OUTSIDE SHOULDERS.  
  
\*THE REMOVAL OF EXISTING RAISED PAVEMENT MARKERS SHALL BE INCIDENTAL TO THE OVERLAY INCLUDING PLACING BACK COMPACTED HOT-MIX MATERIAL TO FILL THE EXPOSED VOID.  
  
A MATERIAL TRANSFER VEHICLE SHALL BE USED FOR MAINLINE PAVING OPERATIONS.  
  
ALL PAVING OPERATIONS MUST BE COMPLETED IN ONE DIRECTION, EITHER NORTHBOUND OR SOUTHBOUND, BEFORE PAVING OPERATIONS CAN BEGIN IN THE OTHER DIRECTION.

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

PAVEMENT & REHABILITATION, SOUTH II-III, 2012

**LOCATION 4** SR1 MILFORD BYPASS NORTHBOUND & SOUTHBOUND(S8A) FROM SUSSEX COUNTY LINE TO HMJ'S NORTH OF US113 OVERPASS.

LENGTH 7357.872 m 24140 L.F. AADT 23705

**GENERAL IMPROVEMENTS**

HM PATCHING AND 2" WARM-MIX FULL WIDTH OVERLAY.

**COMMENTS:**

Please see attached sheets for comments

**MATERIAL ESTIMATE FOR LOCATION 4**

401696	ENTRANCE, DRIVEWAY AND INTERSECTING STREET PAVING SURCHARGE	256.00 TON
401801	WMA, SUPERPAVE, TYPE C, 160 GYRATIONS, PG 64-22 (CARBONATE STONE)	7,000.00 TON
401823	WMA, SUPERPAVE, BITUMINOUS CONCRETE BASE COURSE, 160 GYRATIONS, PG 64-22, PATCHING	750.00 TON
401830	WMA, SUPERPAVE, TYPE C, 160 GYRATIONS, PG 70-22 (NON-CARBONATE STONE)	10,400.00 TON
406001	HOT-MIX PATCHING	13,000.00 SY-IN
710001	ADJUSTING AND REPAIRING EXISTING DRAINAGE INLET	11.00 EACH
732004	TOPSOIL (TON)	340.00 TON
734013	PERMANENT GRASS SEEDING, DRY GROUND	8,050.00 S.Y.
743003	ARROW PANELS, TYPE C	40.00 EA-DY
743004	FURNISH AND MAINTAIN PORTABLE CHANGEABLE MESSAGE SIGN	28.00 EA-DY
743005	FURNISH AND MAINTAIN PORTABLE LIGHT ASSEMBLY	162.00 EA-DY
743007	** TRAFFIC OFFICERS	550.00 HOUR
743010	FURNISH AND MAINTAIN TRUCK MOUNTED ATTENUATOR, TYPE II	40.00 EA-DY
743051	** FLAGGER, KENT COUNTY, STATE	1,617.00 HOUR
743063	** FLAGGER, KENT COUNTY, STATE, OVERTIME	243.00 HOUR
748015	PERMANENT PAVEMENT STRIPING, SYMBOL/LEGEND ALKYD-THERMOPLASTIC	276.00 S.F.
748019	TEMPORARY MARKINGS, PAINT, 4"	56,909.00 L.F.
748026	TEMPORARY MARKINGS, PAINT SYMBOL/LEGEND	276.00 S.F.
748502	RAISED/RECESSED PAVEMENT MARKER	302.00 EACH
748548	PERMANENT PAVEMENT STRIPING, EPOXY RESIN PAINT, WHITE/YELLOW, 5"	56,909.00 L.F.
760502	PAVEMENT MILLING, TAPER CUT	1,660.00 SY-IN
760504	RUMBLE STRIPS, HOT MIX	41,555.00 L.F.
761001	BUTT JOINTS, HOT MIX	2,730.00 S.Y.

\*\* DENOTES FIXED PRICE ITEM

SOUTH  
MAINTENANCE

PAVEMENT & REHABILITATION, SOUTH II-III, 2012

LOCATION 4 SRI MILFORD BYPASS NORTHBOUND & SOUTHBOUND(S8A) FROM SUSSEX COUNTY  
LINE TO HMJ'S NORTH OF US113 OVERPASS.

COMMENTS:

1. RECOMMENDED M.O.T. CASE NO. 7 (TRAVEL LANES).  
CASE NO. 3 (SHOULDERS).
2. NIGHTTIME WORK HOURS: 8:00PM TO 6:00AM.
3. SUMMER SEASON LANE CLOSURES ARE NOT PERMITTED BETWEEN MAY 23 TO SEPT. 12, 2011.
4. ON THE MAIN CONSTRUCTION ROAD AND ALL INTERSECTING ROADS, "ROAD WORK AHEAD AND END" SIGNS FACING THE TRAFFIC SHALL BE PLACED AT 1500', 1000' AND 500' APPROACHING THE WORK ZONE. IN THOSE CASES, WHERE IT IS DIFFICULT TO MEET THE ABOVE CRITERIA BECAUSE OF DISTANCE LIMITATIONS, THE SIGN SHALL BE PLACED AS DIRECTED BY THE FIELD ENGINEER.
5. COORDINATION WITH ADJACENT CONTRACTOR FOR CONTRACT NO. 28-122-01 MAY BE NECESSARY FOR M.O.T. LANE CLOSURES AND SIGNAGE.
6. GABC ITEM 302005 AND QUANTITY IS FOR UNIMPROVED DRIVEWAYS.
7. 2" TAPER MILL IN FRONT OF EXISTING CURB.
8. THE TEMPORARY STRIPING SHALL BE PAID FOR ONE TIME PER LIFT.
9. HOT-MIX OVERLAY NOTES\*  
-----  
USE 70-22 (NC) TYPE C WARM-MIX FOR TRAVEL LANES AND INTERSECTIONS.  
USE 64-22 (C) TYPE C WARM-MIX FOR TURN LANES, MEDIAN CROSSOVERS AND OUTSIDE SHOULDERS.  
  
\*THE REMOVAL OF EXISTING RAISED PAVEMENT MARKERS SHALL BE INCIDENTAL TO THE OVERLAY INCLUDING PLACING BACK COMPACTED HOT-MIX MATERIAL TO FILL THE EXPOSED VOID.  
  
A MATERIAL TRANSFER VEHICLE SHALL BE USED FOR MAINLINE PAVING OPERATIONS.  
  
ALL PAVING OPERATIONS MUST BE COMPLETED IN ONE DIRECTION, EITHER NORTHBOUND OR SOUTHBOUND, BEFORE PAVING OPERATIONS CAN BEGIN IN THE OTHER DIRECTION.  
  
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THIS LOCATION SHALL MEET THE TOLERANCES OF SUBSECTION 401580 - RIDE QUALITY OF HOT-MIX PAVEMENT REQUIREMENTS, AS SPECIFIED IN THE SPECIAL PROVISIONS.  
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**DELAWARE DEPARTMENT OF TRANSPORTATION**

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**SOUTH PAVEMENT & REHABILITATION, SOUTH II-III, 2012  
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**CONTRACT QUANTITIES SUMMARY SHEET**

302005	GRADED AGGREGATE BASE COURSE, TYPE B	83.00 TON
401696	ENTRANCE, DRIVEWAY AND INTERSECTING STREET PAVING SURCHARGE	531.00 TON
401801	WMA, SUPERPAVE, TYPE C, 160 GYRATIONS, PG 64-22 (CARBONATE STONE)	17,100.00 TON
401823	WMA, SUPERPAVE, BITUMINOUS CONCRETE BASE COURSE, 160 GYRATIONS, PG 64-22, PATCHING	1,124.00 TON
401830	WMA, SUPERPAVE, TYPE C, 160 GYRATIONS, PG 70-22 (NON- CARBONATE STONE)	16,950.00 TON
406001	HOT-MIX PATCHING	19,490.00 SY-IN
705002	P.C.C. SIDEWALK, 6"	441.00 S.F.
710001	ADJUSTING AND REPAIRING EXISTING DRAINAGE INLET	14.00 EACH
710002	ADJUSTING AND REPAIRING EXISTING MANHOLE	5.00 EACH
732004	TOPSOIL (TON)	1,015.00 TON
734013	PERMANENT GRASS SEEDING, DRY GROUND	17,282.00 S.Y.
743003	ARROWPANELS, TYPE C	86.00 EA-DY
743004	FURNISH AND MAINTAIN PORTABLE CHANGEABLE MESSAGE SIGN	84.00 EA-DY
743005	FURNISH AND MAINTAIN PORTABLE LIGHT ASSEMBLY	318.00 EA-DY
743007	** TRAFFIC OFFICERS	1,190.00 HOUR
743010	FURNISH AND MAINTAIN TRUCK MOUNTED ATTENUATOR, TYPE II	93.00 EA-DY
743051	** FLAGGER, KENT COUNTY, STATE	1,617.00 HOUR
743052	** FLAGGER, SUSSEX COUNTY, STATE	2,070.00 HOUR
743063	** FLAGGER, KENT COUNTY, STATE, OVERTIME	243.00 HOUR
743064	** FLAGGER, SUSSEX COUNTY, STATE, OVERTIME	324.00 HOUR
746774	SUPPLY AND INSTALLATION OF LOOP DETECTOR WIRE	200.00 L.F.
746776	LOOP DETECTOR SPLICE	2.00 EACH
748015	PERMANENT PAVEMENT STRIPING, SYMBOL/LEGEND ALKYD-THERMOPLASTIC	953.00 S.F.
748019	TEMPORARY MARKINGS, PAINT, 4"	142,345.00 L.F.
748026	TEMPORARY MARKINGS, PAINT SYMBOL/LEGEND	717.00 S.F.
748502	RAISED/RECESSED PAVEMENT MARKER	661.00 EACH
748548	PERMANENT PAVEMENT STRIPING, EPOXY RESIN PAINT, WHITE/YELLOW, 5"	142,045.00 L.F.
758000	REMOVAL OF EXISTING PORTLAND CEMENT CONCRETE PAVEMENT, CURB, SIDEWALK, ETC.	49.00 S.Y.

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SOUTH PAVEMENT & REHABILITATION, SOUTH II-III, 2012  
MAINTENANCE

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CONTRACT QUANTITIES SUMMARY SHEET

760502	PAVEMENT MILLING, TAPER CUT	1,955.00 SY-IN
760504	RUMBLE STRIPS, HOT MIX	80,385.00 L.F.
760507	PROFILE MILLING, HOT-MIX	900.00 SY-IN
761001	BUTT JOINTS, HOT MIX	6,740.00 S.Y.
762001	SAW CUTTING, HOT MIX	4,164.00 L.F.
762002	SAW CUTTING, CONCRETE, FULL DEPTH	115.00 L.F.
763000	INITIAL EXPENSE	LUMP SUM
763643	MAINTENANCE OF TRAFFIC, ALL INCLUSIVE	LUMP SUM

\*\* DENOTES FIXED PRICE ITEM

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