

DEPARTMENT OF TRANSPORTATION
OFFICE OF TRANSPORTATION SOLUTIONS
PLANS AND SPECIFICATIONS FOR

CONTRACT NUMBER - T201206204.01

CENTRAL MAINTENANCE

FEDERAL AID NUMBER - ESTP-2012(24)

PRIMAVERA ID - 12-06204

CONTRACT TITLE - PAVEMENT & REHABILITATION - SOUTH I-IV, 2012

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PLANS PREPARED BY: Paul Farkas
DESIGN TECHNICIAN

DATE RECOMMENDED: Nov 23, 2011

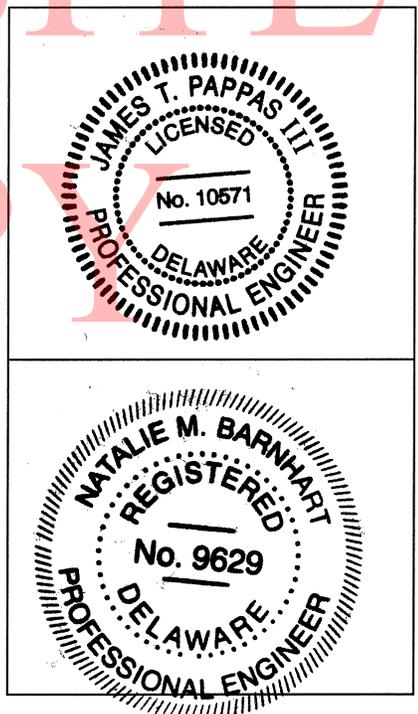
Jt Farkas
GROUP ENGINEER, CONSTRUCTION

DATE RECOMMENDED: 11.28.11

James T. Pappas III
ASSIST. DIRECTOR, DESIGN

DATE RECOMMENDED: 11-28-11

Natalie Barnhart
CHIEF ENGINEER

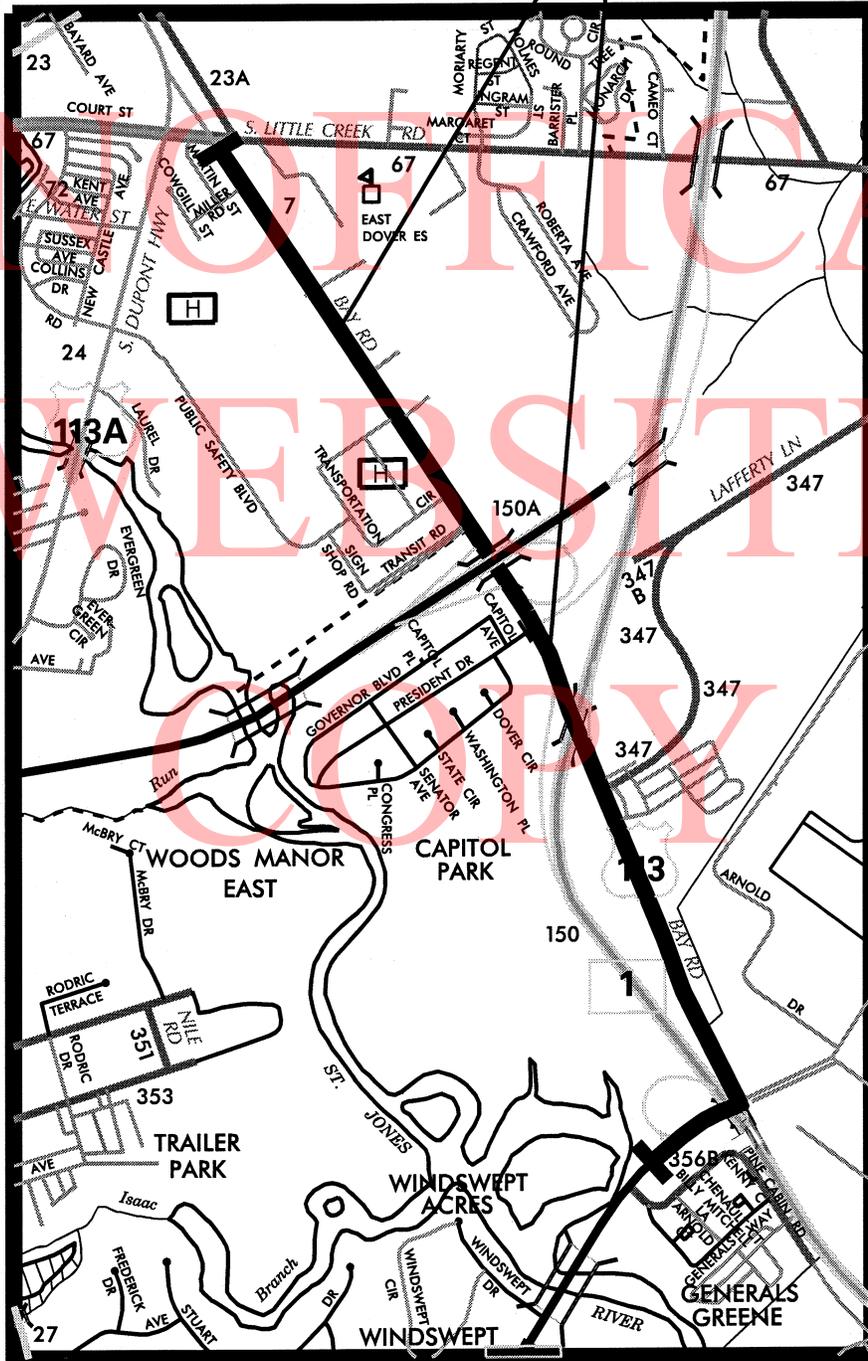


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VARIOUS LOCATIONS

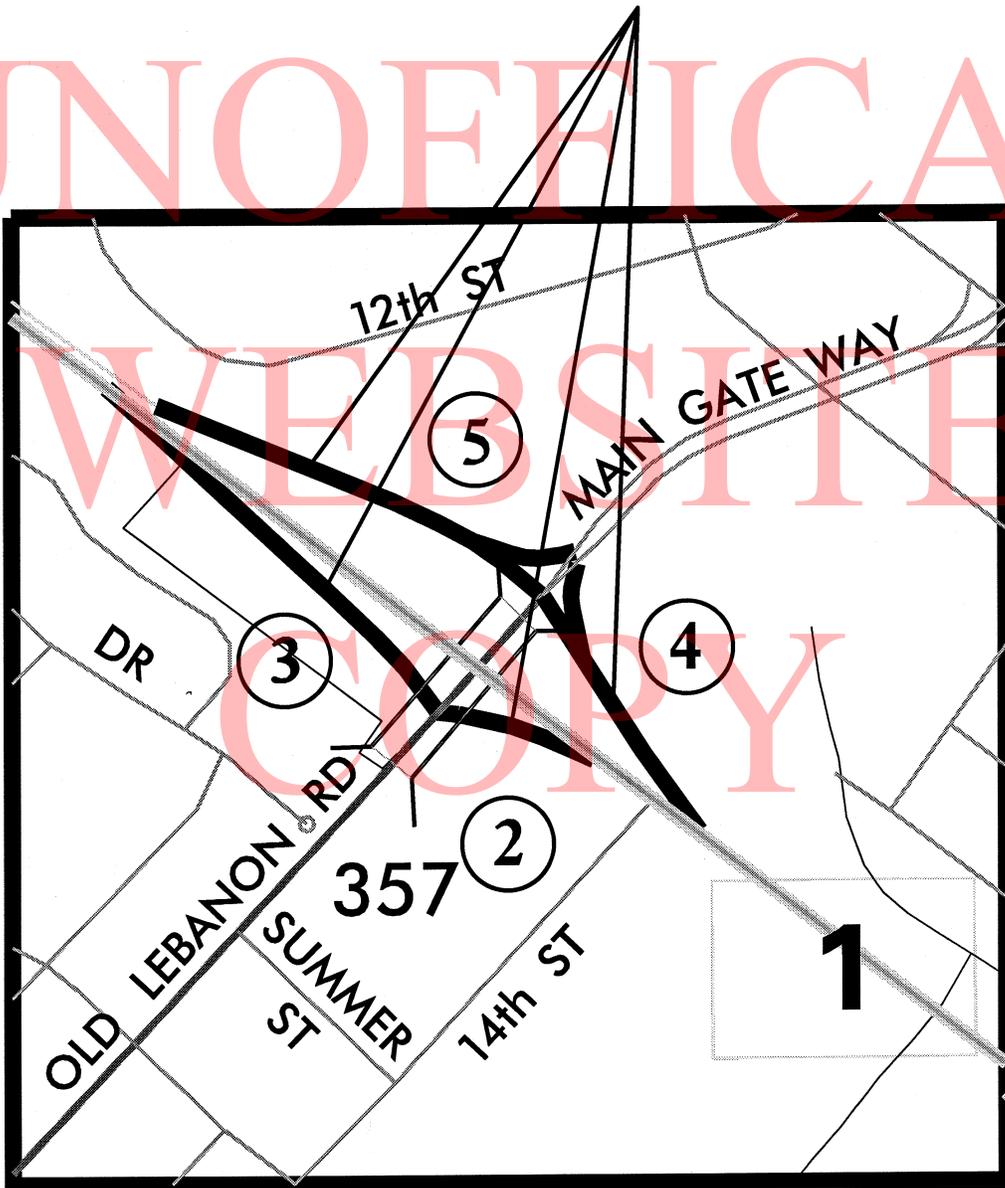
LOCATION MAP

Location 1



LOCATION MAP

Locations 2 thru 5



PAVEMENT & REHABILITATION, SOUTH I-IV, 2012

GENERAL CONTRACT PLAN NOTES

REVISED 7/11

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

5. THE CONTRACTOR SHALL BE REQUIRED TO SHOW PROOF THAT HE HAS SUFFICIENT APPROVED STRIPING MATERIALS ON HAND TO ENSURE STRIPING IS COMPLETED PRIOR TO FULL OPENING ROADWAY TO TRAFFIC.
6. AT THE END OF EACH DAY'S OPERATION AND BEFORE TRAFFIC IS RETURNED TO UNRESTRICTED ROADWAY USE, TEMPORARY STRIPING SHALL BE UTILIZED AT LOCATIONS THAT REQUIRE PERMANENT STRIPING, SHALL BE INSTALLED IN ACCORDANCE WITH THE TEMPORARY STRIPING POLICY. TEMPORARY PAVEMENT STRIPING MUST MATCH PERMANENT PAVEMENT STRIPING IN ALL REGARDS. TEMPORARY PAVEMENT MARKINGS SHALL BE PAID AT THE APPLICABLE CONTRACT UNIT PRICE. THE CONTRACTOR IS RESPONSIBLE FOR MAINTAINING THE TEMPORARY MARKINGS IN GOOD CONDITION SUCH THAT THE PAVEMENT IS PROPERLY DELINEATED AT ALL TIMES. ANY REFRESHING OF THE TEMPORARY MARKINGS WILL BE AT THE CONTRACTOR'S EXPENSE.
7. ALL WORK SHALL BE PERFORMED IN A MANNER THAT WILL REASONABLY PROVIDE THE LEAST

PAVEMENT & REHABILITATION, SOUTH I-IV, 2012

GENERAL CONTRACT PLAN NOTES

PRACTICABLE OBSTRUCTION TO ALL ROAD USERS, INCLUDING VEHICULAR, PEDESTRIAN AND BICYCLE TRAFFIC, AND SHALL CONFORM TO THE REQUIREMENTS OF THE 2011 DELAWARE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES, PART 6, INCLUDING ALL REVISIONS UP TO THE DATE OF ADVERTISEMENT FOR BIDS.

8. THE CONTRACTOR SHALL MAINTAIN ACCESS TO AND ALONG PEDESTRIAN FACILITIES AT ALL TIMES DURING CONSTRUCTION. EARTH, STONE AND GRAVEL SURFACES ARE NOT ACCEPTABLE FOR PROVIDING PEDESTRIAN ACCESS. WHERE PEDESTRIAN ROUTES ARE CLOSED OR BLOCKED, ALTERNATE PEDESTRIAN ACCESS SHALL BE PROVIDED USING TA-28 AND/OR TA-29 OF THE 2011 DELAWARE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES OR TO THE SATISFACTION OF THE ENGINEER. PEDESTRIAN DETOUR ROUTES OR ALTERNATE PEDESTRIAN FACILITIES SHALL CONSIST OF ADA COMPLIANT FACILITIES TO THE LEVEL OF WHICH EXISTS ON THE PEDESTRIAN ROUTE. THE COST FOR ANY PROVISIONS SHALL BE INCIDENTAL TO ITEM 763XXX - MAINTENANCE OF TRAFFIC.

PEDESTRIAN MAINTENANCE OF TRAFFIC: THIS WORK SHALL CONSIST OF PROVIDING AND MAINTAINING AN ACCESSIBLE PEDESTRIAN ROUTE THROUGHOUT THE PROJECT'S LIMITS IN ACCORDANCE WITH THE AMERICANS WITH DISABILITIES ACT OF 1990 (ADA) TITLE II, PARAGRAPH 35.130.

THE CONTRACTOR SHALL BE REQUIRED TO REVIEW EACH CURB RAMP LOCATION AND SUBMIT THE APPROPRIATE MAINTENANCE OF TRAFFIC DETAIL AND DEVICES TO THE ENGINEER FOR EACH LOCATION AT LEAST 2 WEEKS BEFORE CONSTRUCTION FOR REVIEW, COMMENT, AND APPROVAL. THE FOLLOWING CONSIDERATIONS SHALL BE TAKEN INTO ACCOUNT WHEN ADDRESSING ACCESSIBLE PEDESTRIAN MAINTENANCE OF TRAFFIC:

- **ALL PEDESTRIANS, INCLUDING PERSONS WITH DISABILITIES, SHALL BE PROVIDED WITH A REASONABLY SAFE, CONVENIENT AND ACCESSIBLE PATH THAT REPLICATES AS MUCH AS PRACTICABLE THE EXISTING PEDESTRIAN FACILITIES.**
- **MAINTAIN ACCESS TO ALL BUSINESSES AND RESIDENCES AT ALL TIMES.**
- **PROVIDE PEDESTRIAN ACCESS THROUGH OR AROUND THE WORK ZONE. IF A DETOUR IS CHOSEN THE CONTRACTOR MUST SUBMIT THE DETOUR ROUTE TO THE ENGINEER FOR REVIEW AND APPROVAL. THE DETOUR ROUTE MUST MEET OR EXCEED THE CURRENT CONDITIONS.**
- **WORK SHOULD BE PHASED SO THAT ALL AREAS OF AN INTERSECTION/SIDEWALK PATH ARE NOT UNDER CONSTRUCTION AT THE SAME TIME UNLESS A CLEAR PATH IS PROVIDED AND IDENTIFIED.**
- **TRAFFIC CONTROL DEVICES AND OTHER CONSTRUCTION MATERIALS AND FEATURES SHALL NOT INTRUDE INTO THE USABLE WIDTH OF THE SIDEWALK, TEMPORARY PATHWAY OR OTHER PEDESTRIAN FACILITY.**
- **SIGNS AND OTHER DEVICES MOUNTED LOWER THAN 7FT ABOVE THE TEMPORARY PEDESTRIAN PATHWAY SHALL NOT PROJECT MORE THAN 4 IN. INTO ACCESSIBLE PEDESTRIAN ROUTE.**

A SMOOTH, CONTINUOUS HARD SURFACE SHALL BE PROVIDED THROUGHOUT THE ENTIRE LENGTH AND WIDTH OF THE PEDESTRIAN ROUTE THROUGHOUT CONSTRUCTION. THERE SHALL BE NO CURBS OR VERTICAL ELEVATION CHANGES GREATER THAN ¼ IN. IN GRADE OR TERRAIN THAT COULD CAUSE TRIPPING OR BE A BARRIER TO WHEELCHAIR USE.

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

PAVEMENT & REHABILITATION, SOUTH I-IV, 2012

GENERAL CONTRACT PLAN NOTES

COPY OF THE CERTIFICATION CARD FOR THE ATSSA TRAFFIC CONTROL SUPERVISOR SHALL BE SUBMITTED AT THE PRECONSTRUCTION MEETING. THE PAPER CERTIFICATE IS NOT ACCEPTABLE.

PAVEMENT MARKINGS

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

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

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

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

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

TRAFFIC SIGNAL NOTES

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

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

PROJECT

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

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GENERAL CONTRACT PLAN NOTES

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

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

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

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

21. EXCAVATION 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.

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

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

24. THE CONTRACTOR SHALL TAKE CARE IN REMOVING PAVEMENT AROUND UTILITIES, BUTT JOINTS, CURBING, ETC. SO THAT EXISTING PAVEMENT BEYOND THE SPECIFIED DEPTHS IS NOT DAMAGED. ANY DAMAGE CAUSED BY THE CONTRACTOR'S OPERATIONS MAY RESULT IN PLACING LEVELING COURSES AT THE CONTRACTOR'S EXPENSE. THE REMOVAL AND CLEAN UP OF THE HOT MIX RESIDUE WEDGE

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GENERAL CONTRACT PLAN NOTES

REMAINING AFTER MILLING OPERATIONS SHALL BE INCIDENTAL TO THE MILLING ITEM. THE REMOVAL OF EXISTING RAISED PAVEMENT MARKERS (RPM'S) SHALL BE INCIDENTAL TO THE APPLICABLE MILLING AND/OR RECLAMATION ITEMS.

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

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

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

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

REMOVE HOT MIX AND CONCRETE COLLAR FROM AROUND MANHOLE.

12"
(300 mm)

IF REQUIRED, PLACE CONTINUOUS SPLIT BRICK TO ADJUST FRAME TO EXISTING GRADE.

16"
(400 mm)

ALL JOINTS IN ADJUSTED BRICKWORK SHALL BE COMPLETELY FILLED WITH CEMENT MORTAR.

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.

ANY ADJUSTMENTS AND/OR RELOCATIONS OF MUNICIPALLY OWNED SEWER OR WATER FACILITIES SHALL BE DONE IN ACCORDANCE TO THE RESPECTIVE AGENCIES STANDARD SPECIFICATIONS AS DIRECTED BY THE ENGINEER.

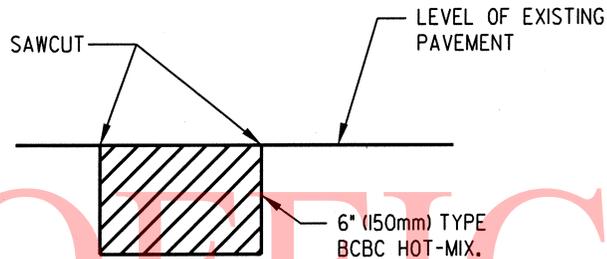
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CENTRAL MAINTENANCE VARIOUS LOCATIONS

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

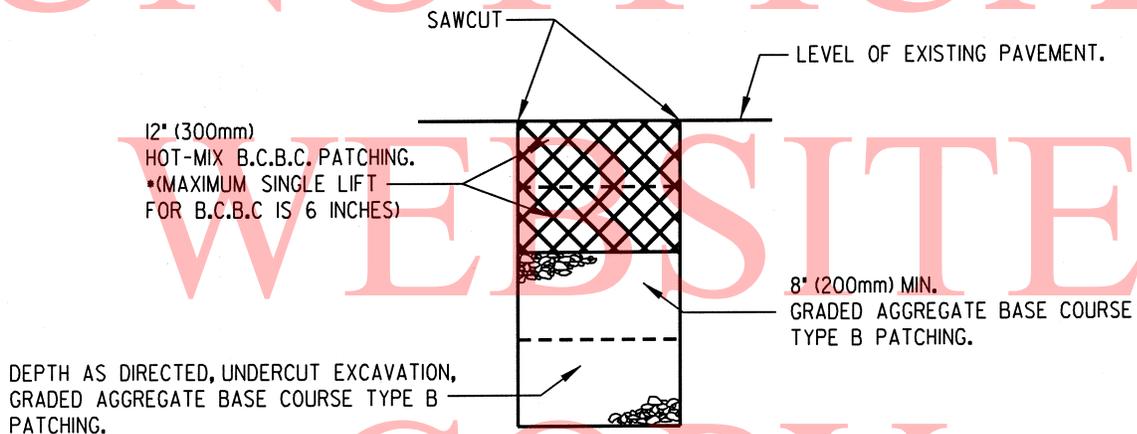
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CENTRAL MAINTENANCE VARIOUS LOCATIONS

DETAILS SHEET

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HOT-MIX PATCH CONCRETE 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.

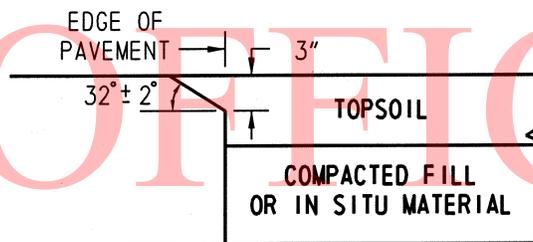
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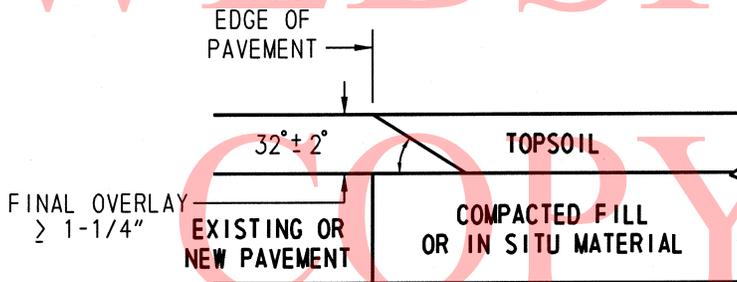
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CENTRAL MAINTENANCE VARIOUS LOCATIONS

DETAILS SHEET



CONCRETE PAVEMENTS
NOT TO SCALE



HOT-MIX PAVEMENTS AND OVERLAYS
NOT TO SCALE

SAFETY EDGE DETAIL
NOT TO SCALE

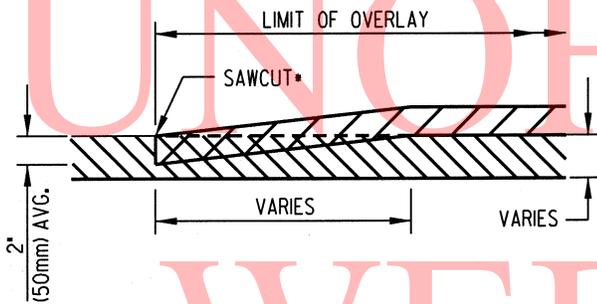
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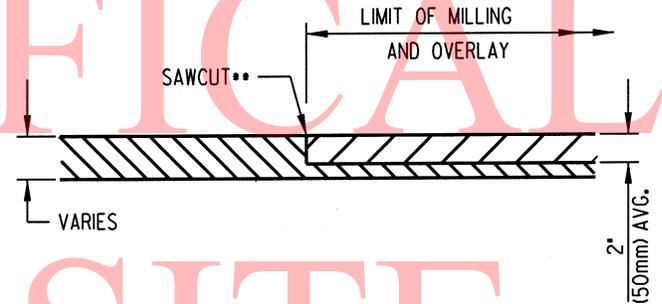


LEGEND

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

**BUTT JOINT
FOR OVERLAY SECTION***

PAYMENT UNDER ITEM 761001.
*SAWCUT IS INCIDENTAL TO ITEM 761001.



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 762001.

NOTES:

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

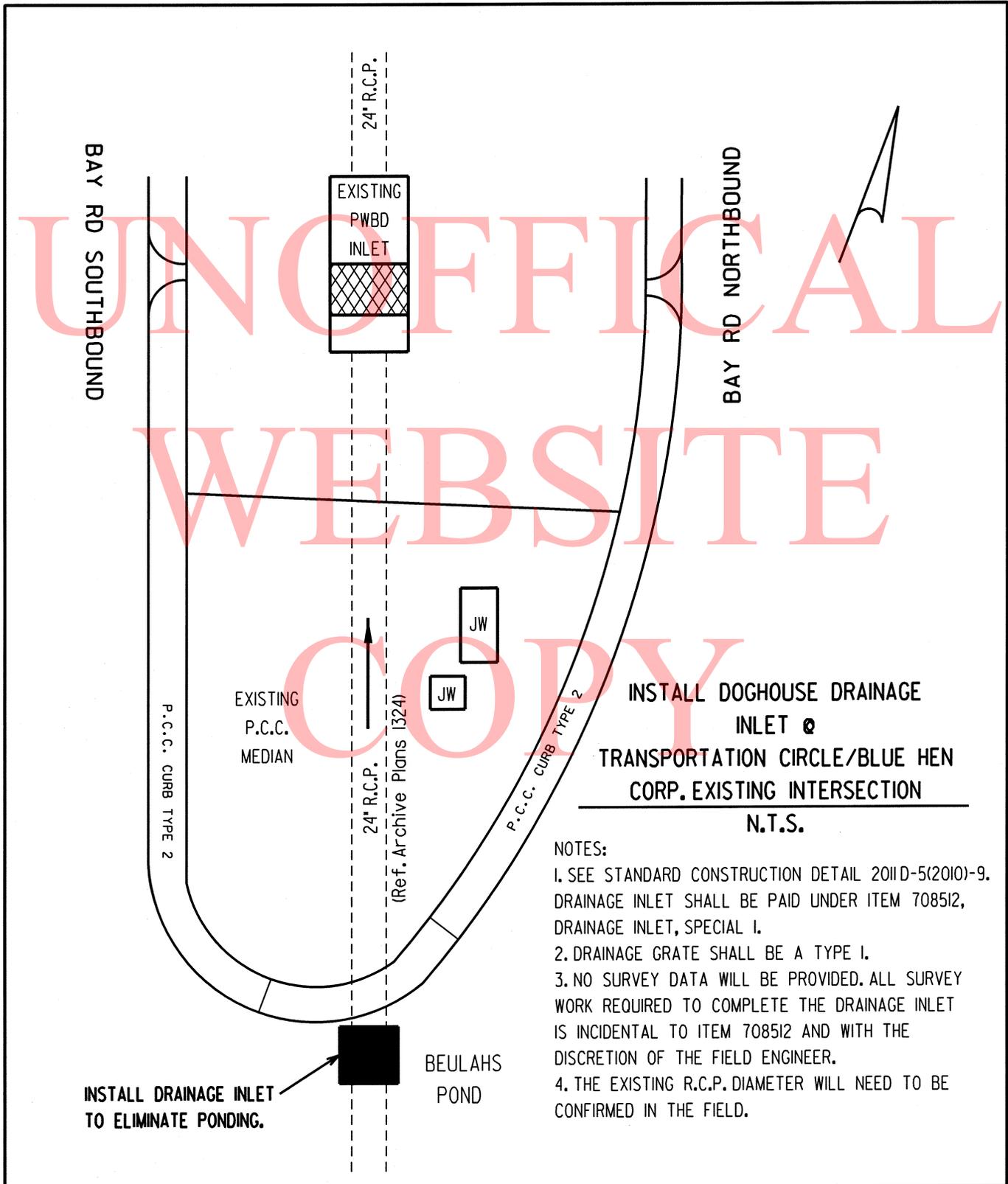
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CENTRAL MAINTENANCE VARIOUS LOCATIONS

DETAILS SHEET



INSTALL DOGHOUSE DRAINAGE INLET @ TRANSPORTATION CIRCLE/BLUE HEN CORP. EXISTING INTERSECTION
N.T.S.

NOTES:

1. SEE STANDARD CONSTRUCTION DETAIL 2011D-5(2010)-9. DRAINAGE INLET SHALL BE PAID UNDER ITEM 708512, DRAINAGE INLET, SPECIAL 1.
2. DRAINAGE GRATE SHALL BE A TYPE 1.
3. NO SURVEY DATA WILL BE PROVIDED. ALL SURVEY WORK REQUIRED TO COMPLETE THE DRAINAGE INLET IS INCIDENTAL TO ITEM 708512 AND WITH THE DISCRETION OF THE FIELD ENGINEER.
4. THE EXISTING R.C.P. DIAMETER WILL NEED TO BE CONFIRMED IN THE FIELD.

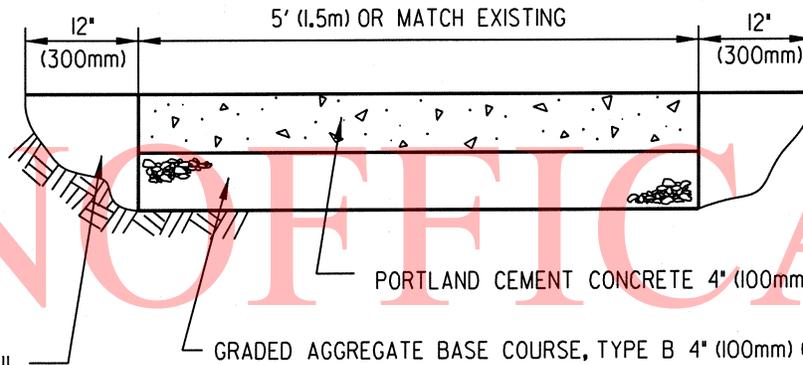
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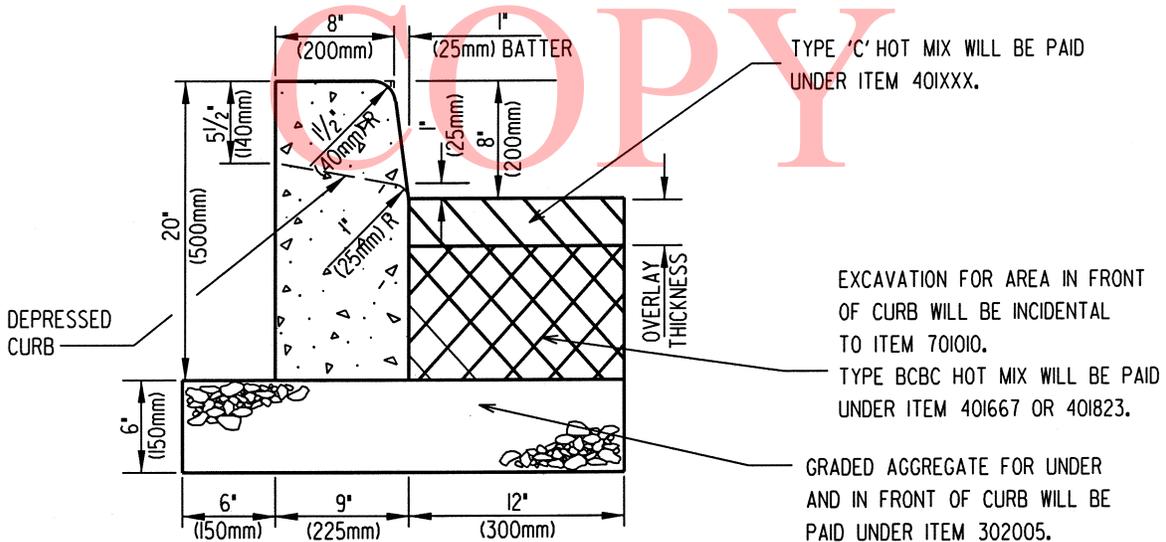
DETAILS SHEET



P.C.C. SIDEWALK

N.T.S.

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



P.C.C. CURB TYPE I-8

N.T.S.

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CENTRAL
MAINTENANCE

PAVEMENT & REHABILITATION, SOUTH I-IV, 2012

LOCATION 1

BAY RD(K7) NORTHBOUND & SOUTHBOUND - (DOVER) FROM HMJ ON SOUTH SIDE OF LEBANON RD(K356,DE10) TO HMJ'S SOUTH OF SOUTH LITTLE CREEK RD(K67). EXTENDED LIMITS INCLUDE DE10, CONCRETE SECTION.

LENGTH 6766.56 m 22200 L.F. AADT 26096

GENERAL IMPROVEMENTS

PATCHING, TAPER MILLING, MILLING AND 2" WARM-MIX TYPE C FULL WIDTH OVERLAY.

COMMENTS:

Please see attached sheets for comments

MATERIAL ESTIMATE FOR LOCATION 1

212001	UNDERCUT EXCAVATION, PATCHING	8.00 C.Y.
302005	GRADED AGGREGATE BASE COURSE, TYPE B	21.00 TON
302008	GRADED AGGREGATE BASE COURSE, TYPE B, PATCHING	80.00 C.Y.
401696	ENTRANCE, DRIVEWAY AND INTERSECTING STREET PAVING SURCHARGE	395.00 TON
401801	WMA, SUPERPAVE, TYPE C, 160 GYRATIONS, PG 64-22 (CARBONATE STONE)	5,605.00 TON
401823	WMA, SUPERPAVE, BITUMINOUS CONCRETE BASE COURSE, 160 GYRATIONS, PG 64-22, PATCHING	272.00 TON
401833	WMA, SUPERPAVE, TYPE C, 160 GYRATIONS, PG 76-22, (NON- CARBONATE STONE)	9,174.00 TON
402000	HOT-MIX BITUMINOUS CONCRETE AND/OR COLD-LAID BITUMINOUS CONCRETE (TRM)	15.00 TON
406001	HOT-MIX PATCHING	800.00 SY-IN
406002	HOT-MIX PATCHING, CONCRETE	8,960.00 SY-IN
503001	PATCHING P.C.C. PAVEMENT, 6' TO 15', TYPE A	32.00 S.Y.
503006	DOWEL BARS	64.00 EACH
503503	** PATCHING CONCRETE	29.00 SY-IN
701010	PORTLAND CEMENT CONCRETE CURB, TYPE 1-8	44.00 L.F.
701022	INTEGRAL PORTLAND CEMENT CONCRETE CURB & GUTTER, TYPE 3-8	49.00 L.F.
705002	P.C.C. SIDEWALK, 6"	579.00 S.F.
705007	SIDEWALK SURFACE DETECTABLE WARNING SYSTEM	366.00 S.F.
705009	CURB RAMP, TYPE 2, 3, AND/OR 4	534.00 S.F.
705010	CURB RAMP, TYPE 5	950.00 S.F.
708060	REPLACE DRAINAGE INLET GRATE(S)	1.00 EACH
708061	REPLACE DRAINAGE INLET FRAME(S)	1.00 EACH
708512	DRAINAGE INLET, SPECIAL I	1.00 EACH
710001	ADJUSTING AND REPAIRING EXISTING DRAINAGE INLET	20.00 EACH
710002	ADJUSTING AND REPAIRING EXISTING MANHOLE	6.00 EACH
732004	TOPSOIL (TON)	611.00 TON
734013	PERMANENT GRASS SEEDING, DRY GROUND	7,400.00 S.Y.
743003	ARROWPANELS, TYPE C	45.00 EA-DY

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CENTRAL
MAINTENANCE

PAVEMENT & REHABILITATION, SOUTH I-IV, 2012

LOCATION 1 **BAY RD(K7) NORTHBOUND & SOUTHBOUND - (DOVER) FROM HMJ ON SOUTH SIDE OF LEBANON RD(K356,DE10) TO HMJ'S SOUTH OF SOUTH LITTLE CREEK RD(K67). EXTENDED LIMITS INCLUDE DE10, CONCRETE SECTION.**

LENGTH 6766.56 m 22200 L.F. AADT 26096

GENERAL IMPROVEMENTS

PATCHING, TAPER MILLING, MILLING AND 2" WARM-MIX TYPE C FULL WIDTH OVERLAY.

COMMENTS:

Please see attached sheets for comments

MATERIAL ESTIMATE FOR LOCATION 1

743004	FURNISH AND MAINTAIN PORTABLE CHANGEABLE MESSAGE SIGN	14.00 EA-DY
743005	FURNISH AND MAINTAIN PORTABLE LIGHT ASSEMBLY	180.00 EA-DY
743007	** TRAFFIC OFFICERS	450.00 HOUR
743010	FURNISH AND MAINTAIN TRUCK MOUNTED ATTENUATOR, TYPE II	45.00 EA-DY
743051	** FLAGGER, KENT COUNTY, STATE	1,900.00 HOUR
743063	** FLAGGER, KENT COUNTY, STATE, OVERTIME	290.00 HOUR
744505	ADJUST OR REPAIR EXISTING CONDUIT JUNCTION WELL	4.00 EACH
744520	CONDUIT JUNCTION WELL, TYPE 1, PRECAST CONCRETE	1.00 EACH
744523	CONDUIT JUNCTION WELL, TYPE 4, PRECAST CONCRETE	2.00 EACH
744525	REMOVAL OF EXISTING JUNCTION WELL	2.00 EACH
745521	SUPPLY OF 4" SDR-13.5 HDPE CONDUIT	50.00 L.F.
745527	SUPPLY OF 2 1/2" GALVANIZED STEEL CONDUIT	110.00 L.F.
745533	SUPPLY OF 2 1/2" SCHEDULE 40 PVC CONDUIT	15.00 L.F.
745535	SUPPLY OF 1 1/2" SCHEDULE 40 PVC CONDUIT	50.00 L.F.
745542	INSTALLATION OF CONDUIT UNDER EXISTING PAVEMENT-DIRECTIONAL BORE	90.00 L.F.
745544	INSTALLATION OF CONDUIT IN UNPAVED TRENCH	105.00 L.F.
746774	SUPPLY AND INSTALLATION OF LOOP DETECTOR WIRE	6,396.00 L.F.
746776	LOOP DETECTOR SPLICE	75.00 EACH
746830	REMOVAL OF CONCRETE POLE BASES AND CABINET FOUNDATIONS	4.00 C.Y.
746850	POLE BASE, TYPE 4	9.00 EACH
748015	PERMANENT PAVEMENT STRIPING, SYMBOL/LEGEND ALKYD-THERMOPLAST IC	8,696.00 S.F.
748019	TEMPORARY MARKINGS, PAINT, 4"	81,324.00 L.F.
748026	TEMPORARY MARKINGS, PAINT SYMBOL/LEGEND	5,987.00 S.F.
748027	PERMANENT PAVEMENT STRIPING, ALKYD-THERMOPLASTIC, 12"	760.00 L.F.
748033	PERMANENT PAVEMENT STRIPING, ALKYD-THERMOPLASTIC, 5"	4,442.00 L.F.
748502	RAISED/RECESSED PAVEMENT MARKER	278.00 EACH
748529	RETROREFLECTIVE PREFORMED PATTERNED MARKINGS, SYMBOL/LEGEND	35.00 S.F.

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CENTRAL
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PAVEMENT & REHABILITATION, SOUTH I-IV, 2012

LOCATION 1

BAY RD(K7) NORTHBOUND & SOUTHBOUND - (DOVER) FROM HMJ ON SOUTH SIDE OF LEBANON RD(K356,DE10) TO HMJ'S SOUTH OF SOUTH LITTLE CREEK RD(K67). EXTENDED LIMITS INCLUDE DE10, CONCRETE SECTION.

LENGTH 6766.5600 m 22200.0000 L.F. AADT 26096

GENERAL IMPROVEMENTS

PATCHING, TAPER MILLING, MILLING AND 2" WARM-MIX TYPE C FULL WIDTH OVERLAY.

COMMENTS:

Please see attached sheets for comments

MATERIAL ESTIMATE FOR LOCATION 1

748548	PERMANENT PAVEMENT STRIPING, EPOXY RESIN PAINT, WHITE/YELLOW, 5"	81,324.00 L.F.
748549	PERMANENT PAVEMENT STRIPING, EPOXY RESIN PAINT, WHITE/YELLOW, 10"	410.00 L.F.
748553	PREFORMED RETROREFLECTIVE THERMOPLASTIC PAVEMENT MARKINGS, BIKE SYMBOL	2.00 EACH
748557	PERMANENT PAVEMENT STRIPING, EPOXY RESIN PAINT, BLACK, 3"	2,315.00 L.F.
748559	PERMANENT PAVEMENT STRIPING, EPOXY RESIN PAINT, BLACK, 5"	600.00 L.F.
748568	PERMANENT PAVEMENT STRIPING, EPOXY RESIN PAINT, BLACK, 9"	1,945.00 L.F.
749687	INSTALLATION OR REMOVAL OF TRAFFIC SIGN(S) ON SINGLE SIGN POST	19.00 EACH
758000	REMOVAL OF EXISTING PORTLAND CEMENT CONCRETE PAVEMENT, CURB, SIDEWALK, ETC.	77.00 S.Y.
760502	PAVEMENT MILLING, TAPER CUT	14,800.00 SY-IN
760507	PROFILE MILLING, HOT-MIX	29,556.00 SY-IN
761001	BUTT JOINTS, HOT MIX	3,491.00 S.Y.
762001	SAW CUTTING, HOT MIX	3,410.00 L.F.
762002	SAW CUTTING, CONCRETE, FULL DEPTH	1,320.00 L.F.
763621	CONSTRUCTION ENGINEERING, REHABILITATION	27.00 HOUR

** DENOTES FIXED PRICE ITEM

CENTRAL
MAINTENANCE

PAVEMENT & REHABILITATION, SOUTH I-IV, 2012

LOCATION 1 BAY RD(K7) NORTHBOUND & SOUTHBOUND - (DOVER) FROM HMJ ON SOUTH SIDE OF LEBANON RD(K356,DE10) TO HMJ'S SOUTH OF SOUTH LITTLE CREEK RD(K67). EXTENDED LIMITS INCLUDE DE10, CONCRETE SECTION.

COMMENTS:

1. RECOMMENDED M.O.T. CASE NO. TA-33 (TRAVEL LANES).
 . CASE NO. TA-5B (SHOULDERS).
 . CASE NO. TA-29 (SIDEWALK).
2. NIGHTTIME WORK HOURS;
 . AFTER SEPTEMBER 10, 2012 (FALL) - 8:00PM TO 6:00AM(SUNDAY THRU THURSDAY).
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. TYPICAL EXISTING PAVEMENT FOR HOT-MIX PATCHING - CONCRETE IS 4+/- TO 7 +/- INCHES OF HOT-MIX OVER 9 +/- INCHES OF P.C.C. CONCRETE.
5. 2" MILL THRU CURBED SECTION(SOUTH END OF LIMITS) AND LEBANON RD/D.A.F.B. NORTH GATE INTERSECTION AS DIRECTED BY THE ENGINEER.
6. 2" MILL AND 2" TAPER MILL REMAINING CURBED AREAS AND ENTRANCES AS DIRECTED BY THE ENGINEER.
7. ITEM 748027 12" THERMO-PLASTIC SHALL BE USED FOR THE GORE STRIPING.
8. DELDOT/DMV - DANNER CAMPUS NORTH ENTRANCE INTERSECTION:
 INSTALL/CONSTRUCT DRAINAGE INLET AT FACE OF MEDIAN CURB. REFERENCE ATTACHED PLAN SHEET DETAILS FOR MORE INFORMATION. ANY SURVEY WORK NECESSARY TO COMPLETE THE WORK SHALL BE INCIDENTAL TO ITEMS 708512.
9. HOT-MIX OVERLAY NOTES*

 A. USE 76-22 (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.
 B. *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.
 C. ALL PAVING OPERATIONS MUST BE COMPLETED IN ONE DIRECTION, EITHER NORTHBOUND OR SOUTHBOUND, BEFORE PAVING OPERATIONS CAN BEGIN IN THE OTHER DIRECTION.
 D. THE MILL/PAVE LIMITS AT THE DAFB NORTH GATE IS AT THE FACE OF CURB/PORK CHOP ISLANDS AT EXISTING JOINT. NOTIFICATION OF DAFB PERSONNEL FOR WORK TO BE CONDUCTED WITH SCHEDULE WILL BE REQUIRED BEFORE CONSTRUCTION.
10. LEBANON ROAD, DE10 - CONCRETE SECTION

 A. P.C.C. PATCH AS DIRECTED BY THE FIELD ENGINEER. TYPICAL EXISTING PAVEMENT FOR P.C.C. PATCHING IS 9 +/- INCHES OF P.C.C. CONCRETE.
 B. SIGNING & STRIPING SHALL BE AS PER THE TRAFFIC SECTIONS RECOMMENDATION.

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

LOCATION 1 BAY RD(K7) NORTHBOUND & SOUTHBOUND - (DOVER) FROM HMJ ON SOUTH SIDE
OF LEBANON RD(K356,DE10) TO HMJ'S SOUTH OF SOUTH LITTLE CREEK RD(K67).
EXTENDED LIMITS INCLUDE DE10, CONCRETE SECTION.

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CENTRAL
MAINTENANCE

PAVEMENT & REHABILITATION, SOUTH I-IV, 2012

LOCATION 2 SR 1 DAFB MAIN GATE RAMP #7003 (HOUSING SIDE) FROM OLD LEBANON RD TO SR1 SOUTHBOUND

LENGTH 112.7760 m 370.0000 L.F.

GENERAL IMPROVEMENTS

TAPER MILL AND 1 1/4" WARM MIX TYPE C(64-22, NC) FULL WIDTH OVERLAY.

COMMENTS:

Please see attached sheets for comments

MATERIAL ESTIMATE FOR LOCATION 2

401696	ENTRANCE, DRIVEWAY AND INTERSECTING STREET PAVING SURCHARGE	18.00 TON
401827	WMA, SUPERPAVE, TYPE C, 160 GYRATIONS, PG 64-22 (NON- CARBONATE STONE)	130.00 TON
402000	HOT-MIX BITUMINOUS CONCRETE AND/OR COLD-LAID BITUMINOUS CONCRETE (TRM)	5.00 TON
705007	SIDEWALK SURFACE DETECTABLE WARNING SYSTEM	40.00 S.F.
705009	CURB RAMP, TYPE 2, 3, AND/OR 4	380.00 S.F.
705010	CURB RAMP, TYPE 5	130.00 S.F.
710001	ADJUSTING AND REPAIRING EXISTING DRAINAGE INLET	2.00 EACH
732004	TOPSOIL (TON)	8.00 TON
734013	PERMANENT GRASS SEEDING, DRY GROUND	123.00 S.Y.
743003	ARROWPANELS, TYPE C	3.00 EA-DY
743004	FURNISH AND MAINTAIN PORTABLE CHANGEABLE MESSAGE SIGN	14.00 EA-DY
743005	FURNISH AND MAINTAIN PORTABLE LIGHT ASSEMBLY	12.00 EA-DY
743007	** TRAFFIC OFFICERS	30.00 HOUR
743010	FURNISH AND MAINTAIN TRUCK MOUNTED ATTENUATOR, TYPE II	3.00 EA-DY
743051	** FLAGGER, KENT COUNTY, STATE	90.00 HOUR
743063	** FLAGGER, KENT COUNTY, STATE, OVERTIME	14.00 HOUR
748019	TEMPORARY MARKINGS, PAINT, 4"	740.00 L.F.
748026	TEMPORARY MARKINGS, PAINT SYMBOL/LEGEND	480.00 S.F.
748548	PERMANENT PAVEMENT STRIPING, EPOXY RESIN PAINT, WHITE/YELLOW, 5"	740.00 L.F.
760502	PAVEMENT MILLING, TAPER CUT	247.00 SY-IN
761001	BUTT JOINTS, HOT MIX	156.00 S.Y.
762001	SAW CUTTING, HOT MIX	100.00 L.F.
763621	CONSTRUCTION ENGINEERING, REHABILITATION	4.00 HOUR

** DENOTES FIXED PRICE ITEM

LOCATION 2 SR 1 DAFB MAIN GATE RAMP #7003 (HOUSING SIDE) FROM OLD LEBANON RD TO SR1 SOUTHBOUND

COMMENTS:

1. RECOMMENDED M.O.T. CASE NO. TA-43.
. CASE NO. TA-29 (SIDEWALK).
2. NIGHTTIME WORK HOURS;
. AFTER SEPTEMBER 10, 2012 (FALL) - 8:00PM TO 6:00AM (SUNDAY THRU THURSDAY).
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. 2" MILL AND 2" TAPER MILL THRU CURBED AREAS AS DIRECTED BY THE ENGINEER.
5. HOT-MIX OVERLAY NOTES*

 - A. USE 64-22 (NC) TYPE C WARM-MIX FOR FULL WIDTH OVERLAY.
 - B. *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.
 - C. THE MILL/PAVE LIMITS FOR THIS LOCATION START/END AT OLD LEBANON ROAD. THE PROJECT DOES NOT INCLUDE THE TRAVEL LANES OF OLD LEBANON ROAD. ADVANCED NOTIFICATION OF DAFB PERSONNEL WILL BE REQUIRED BEFORE CONSTRUCTION.

COPY

LOCATION 3 **SR 1 DAFB MAIN GATE RAMP #7004 (HOUSING SIDE) FROM SR1 SOUTHBOUND TO OLD LEBANON RD**

LENGTH 228.6 m 750 L.F.

GENERAL IMPROVEMENTS

TAPER MILL AND 1 1/4" WARM MIX TYPE C(64-22, NC) FULL WIDTH OVERLAY.

COMMENTS:

Please see attached sheets for comments

MATERIAL ESTIMATE FOR LOCATION 3

302005	GRADED AGGREGATE BASE COURSE, TYPE B	4.00 TON
401696	ENTRANCE, DRIVEWAY AND INTERSECTING STREET PAVING SURCHARGE	20.00 TON
401823	WMA, SUPERPAVE, BITUMINOUS CONCRETE BASE COURSE, 160 GYRATIONS, PG 64-22, PATCHING	0.20 TON
401827	WMA, SUPERPAVE, TYPE C, 160 GYRATIONS, PG 64-22 (NON- CARBONATE STONE)	240.00 TON
402000	HOT-MIX BITUMINOUS CONCRETE AND/OR COLD-LAID BITUMINOUS CONCRETE (TRM)	5.00 TON
701022	INTEGRAL PORTLAND CEMENT CONCRETE CURB & GUTTER, TYPE 3-8	5.00 L.F.
705002	P.C.C. SIDEWALK, 6"	126.00 S.F.
705007	SIDEWALK SURFACE DETECTABLE WARNING SYSTEM	198.00 S.F.
705008	CURB RAMP, TYPE 1	148.00 S.F.
705009	CURB RAMP, TYPE 2, 3, AND/OR 4	1,352.00 S.F.
705010	CURB RAMP, TYPE 5	674.00 S.F.
710001	ADJUSTING AND REPAIRING EXISTING DRAINAGE INLET	3.00 EACH
732004	TOPSOIL (TON)	15.00 TON
734013	PERMANENT GRASS SEEDING, DRY GROUND	250.00 S.Y.
743003	ARROWPANELS, TYPE C	3.00 EA-DY
743004	FURNISH AND MAINTAIN PORTABLE CHANGEABLE MESSAGE SIGN	14.00 EA-DY
743005	FURNISH AND MAINTAIN PORTABLE LIGHT ASSEMBLY	12.00 EA-DY
743007	** TRAFFIC OFFICERS	30.00 HOUR
743010	FURNISH AND MAINTAIN TRUCK MOUNTED ATTENUATOR, TYPE II	3.00 EA-DY
743051	** FLAGGER, KENT COUNTY, STATE	90.00 HOUR
743063	** FLAGGER, KENT COUNTY, STATE, OVERTIME	14.00 HOUR
744505	ADJUST OR REPAIR EXISTING CONDUIT JUNCTION WELL	4.00 EACH
745527	SUPPLY OF 2 1/2" GALVANIZED STEEL CONDUIT	15.00 L.F.
745542	INSTALLATION OF CONDUIT UNDER EXISTING PAVEMENT-DIRECTIONAL BORE	10.00 L.F.
745544	INSTALLATION OF CONDUIT IN UNPAVED TRENCH	5.00 L.F.
746776	LOOP DETECTOR SPLICE	2.00 EACH
746850	POLE BASE, TYPE 4	3.00 EACH

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CENTRAL
MAINTENANCE

PAVEMENT & REHABILITATION, SOUTH I-IV, 2012

LOCATION 3 **SR 1 DAFB MAIN GATE RAMP #7004 (HOUSING SIDE) FROM SR1 SOUTHBOUND
TO OLD LEBANON RD**

LENGTH 228.6000 m 750.0000 L.F.

GENERAL IMPROVEMENTS

TAPER MILL AND 1 1/4" WARM MIX TYPE C(64-22, NC) FULL WIDTH OVERLAY.

COMMENTS:

Please see attached sheets for comments

MATERIAL ESTIMATE FOR LOCATION 3

748015	PERMANENT PAVEMENT STRIPING, SYMBOL/LEGEND ALKYD-THERMOPLAST IC	467.00 S.F.
748019	TEMPORARY MARKINGS, PAINT, 4"	1,500.00 L.F.
748026	TEMPORARY MARKINGS, PAINT SYMBOL/LEGEND	467.00 S.F.
748548	PERMANENT PAVEMENT STRIPING, EPOXY RESIN PAINT, WHITE/YELLOW, 5"	1,500.00 L.F.
758000	REMOVAL OF EXISTING PORTLAND CEMENT CONCRETE PAVEMENT, CURB, SIDEWALK, ETC.	15.00 S.Y.
760502	PAVEMENT MILLING, TAPER CUT	500.00 SY-IN
761001	BUTT JOINTS, HOT MIX	178.00 S.Y.
762001	SAW CUTTING, HOT MIX	107.00 L.F.
762002	SAW CUTTING, CONCRETE, FULL DEPTH	10.00 L.F.
763621	CONSTRUCTION ENGINEERING, REHABILITATION	4.00 HOUR

** DENOTES FIXED PRICE ITEM

LOCATION 3 SR 1 DAFB MAIN GATE RAMP #7004 (HOUSING SIDE) FROM SR1 SOUTHBOUND TO OLD LEBANON RD

COMMENTS:

1. RECOMMENDED M.O.T. CASE NO. TA-43.
. CASE NO. TA-29 (SIDEWALK).
2. NIGHTTIME WORK HOURS;
. AFTER SEPTEMBER 10, 2012 (FALL) - 8:00PM TO 6:00AM (SUNDAY THRU THURSDAY).
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. 2" MILL AND 2" TAPER MILL THRU CURBED AREAS AS DIRECTED BY THE ENGINEER.
5. HOT-MIX OVERLAY NOTES*

 - A. USE 64-22 (NC) TYPE C WARM-MIX FOR FULL WIDTH OVERLAY.
 - B. *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.
 - C. THE MILL/PAVE LIMITS FOR THIS LOCATION START/END AT OLD LEBANON ROAD. THE PROJECT DOES NOT INCLUDE THE TRAVEL LANES OF OLD LEBANON ROAD. ADVANCED NOTIFICATION OF DAFB PERSONNEL WILL BE REQUIRED BEFORE CONSTRUCTION.

COPY

DELAWARE DEPARTMENT OF TRANSPORTATION

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CENTRAL
MAINTENANCE

PAVEMENT & REHABILITATION, SOUTH I-IV, 2012

LOCATION 4 SR 1 DAFB MAIN GATE RAMP #7005 & 7002 (BASE SIDE) FROM SR1 NORTHBOUND TO OLD LEBANON RD

LENGTH 259.08 m 850 L.F.

GENERAL IMPROVEMENTS

TAPER MILL AND 1 1/4" WARM MIX(64-22, NC) FULL WIDTH OVERLAY.

COMMENTS:

Please see attached sheets for comments

MATERIAL ESTIMATE FOR LOCATION 4

302005	GRADED AGGREGATE BASE COURSE, TYPE B	3.00 TON
401696	ENTRANCE, DRIVEWAY AND INTERSECTING STREET PAVING SURCHARGE	20.00 TON
401827	WMA, SUPERPAVE, TYPE C, 160 GYRATIONS, PG 64-22 (NON- CARBONATE STONE)	270.00 TON
402000	HOT-MIX BITUMINOUS CONCRETE AND/OR COLD-LAID BITUMINOUS CONCRETE (TRM)	5.00 TON
705002	P.C.C. SIDEWALK, 6"	100.00 S.F.
705007	SIDEWALK SURFACE DETECTABLE WARNING SYSTEM	102.00 S.F.
705009	CURB RAMP, TYPE 2, 3, AND/OR 4	893.00 S.F.
710001	ADJUSTING AND REPAIRING EXISTING DRAINAGE INLET	4.00 EACH
732004	TOPSOIL (TON)	18.00 TON
734013	PERMANENT GRASS SEEDING, DRY GROUND	283.00 S.Y.
743003	ARROWPANELS, TYPE C	4.00 EA-DY
743004	FURNISH AND MAINTAIN PORTABLE CHANGEABLE MESSAGE SIGN	14.00 EA-DY
743005	FURNISH AND MAINTAIN PORTABLE LIGHT ASSEMBLY	16.00 EA-DY
743007	** TRAFFIC OFFICERS	40.00 HOUR
743010	FURNISH AND MAINTAIN TRUCK MOUNTED ATTENUATOR, TYPE II	4.00 EA-DY
743051	** FLAGGER, KENT COUNTY, STATE	120.00 HOUR
743063	** FLAGGER, KENT COUNTY, STATE, OVERTIME	18.00 HOUR
744505	ADJUST OR REPAIR EXISTING CONDUIT JUNCTION WELL	4.00 EACH
745527	SUPPLY OF 2 1/2" GALVANIZED STEEL CONDUIT	75.00 L.F.
745543	INSTALLATION OF CONDUIT UNDER EXISTING PAVEMENT-OPEN CUT	75.00 L.F.
746774	SUPPLY AND INSTALLATION OF LOOP DETECTOR WIRE	840.00 L.F.
746776	LOOP DETECTOR SPLICE	12.00 EACH
746830	REMOVAL OF CONCRETE POLE BASES AND CABINET FOUNDATIONS	1.00 C.Y.
746850	POLE BASE, TYPE 4	4.00 EACH
748015	PERMANENT PAVEMENT STRIPING, SYMBOL/LEGEND ALKYD-THERMOPLASTIC	405.00 S.F.
748019	TEMPORARY MARKINGS, PAINT, 4"	2,125.00 L.F.
748026	TEMPORARY MARKINGS, PAINT SYMBOL/LEGEND	405.00 S.F.

DELAWARE DEPARTMENT OF TRANSPORTATION

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CENTRAL
MAINTENANCE

PAVEMENT & REHABILITATION, SOUTH I-IV, 2012

LOCATION 4 SR 1 DAFB MAIN GATE RAMP #7005 & 7002 (BASE SIDE) FROM SR1 NORTHBOUND
TO OLD LEBANON RD

LENGTH 259.0800 m 850.0000 L.F.

GENERAL IMPROVEMENTS

TAPER MILL AND 1 1/4" WARM MIX(64-22, NC) FULL WIDTH OVERLAY.

COMMENTS:

Please see attached sheets for comments

MATERIAL ESTIMATE FOR LOCATION 4

748027	PERMANENT PAVEMENT STRIPING, ALKYD-THERMOPLASTIC, 12"	25.00 L.F.
748548	PERMANENT PAVEMENT STRIPING, EPOXY RESIN PAINT, WHITE/YELLOW, 5"	2,125.00 L.F.
758000	REMOVAL OF EXISTING PORTLAND CEMENT CONCRETE PAVEMENT, CURB, SIDEWALK, ETC.	11.00 S.Y.
760502	PAVEMENT MILLING, TAPER CUT	567.00 SY-IN
761001	BUTT JOINTS, HOT MIX	178.00 S.Y.
762001	SAW CUTTING, HOT MIX	120.00 L.F.
763621	CONSTRUCTION ENGINEERING, REHABILITATION	4.00 HOUR

** DENOTES FIXED PRICE ITEM

COPY

CENTRAL
MAINTENANCE

PAVEMENT & REHABILITATION, SOUTH I-IV, 2012

LOCATION 4 SR 1 DAFB MAIN GATE RAMP #7005 & 7002 (BASE SIDE) FROM SR1 NORTHBOUND TO
OLD LEBANON RD

COMMENTS:

1. RECOMMENDED M.O.T. CASE NO. TA-43.
. CASE NO. TA-29 (SIDEWALK).
2. NIGHTTIME WORK HOURS;
. AFTER SEPTEMBER 10, 2012 (FALL) - 8:00PM TO 6:00AM (SUNDAY THRU THURSDAY).
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. 2" MILL AND 2" TAPER MILL THRU CURBED AREAS AS DIRECTED BY THE ENGINEER.
5. HOT-MIX OVERLAY NOTES*

 - A. USE 64-22 (NC) TYPE C WARM-MIX FOR FULL WIDTH OVERLAY.
 - B. *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.
 - C. THE MILL/PAVE LIMITS FOR THIS LOCATION START/END AT OLD LEBANON ROAD. THE PROJECT DOES NOT INCLUDE THE TRAVEL LANES OF OLD LEBANON ROAD. ADVANCED NOTIFICATION OF DAFB PERSONNEL WILL BE REQUIRED BEFORE CONSTRUCTION.

COPY

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CONTRACT T201206204

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CENTRAL
MAINTENANCE

PAVEMENT & REHABILITATION, SOUTH I-IV, 2012

LOCATION 5 SR 1 DAFB MAIN GATE RAMP #7006 & 7001 (BASE SIDE) FROM OLD LEBANON RD TO SR1 NORTHBOUND

LENGTH 323.0880 m 1060.0000 L.F.

GENERAL IMPROVEMENTS

TAPER MILL AND 1 1/4" WARM-MIX TYPE C(64-22,NC) FULL WIDTH OVERLAY.

COMMENTS:

Please see attached sheets for comments

MATERIAL ESTIMATE FOR LOCATION 5

401696	ENTRANCE, DRIVEWAY AND INTERSECTING STREET PAVING SURCHARGE	20.00 TON
401827	WMA, SUPERPAVE, TYPE C, 160 GYRATIONS, PG 64-22 (NON- CARBONATE STONE)	280.00 TON
402000	HOT-MIX BITUMINOUS CONCRETE AND/OR COLD-LAID BITUMINOUS CONCRETE (TRM)	5.00 TON
705007	SIDEWALK SURFACE DETECTABLE WARNING SYSTEM	30.00 S.F.
705008	CURB RAMP, TYPE 1	90.00 S.F.
705009	CURB RAMP, TYPE 2, 3, AND/OR 4	380.00 S.F.
710001	ADJUSTING AND REPAIRING EXISTING DRAINAGE INLET	5.00 EACH
732004	TOPSOIL (TON)	22.00 TON
734013	PERMANENT GRASS SEEDING, DRY GROUND	353.00 S.Y.
743003	ARROWPANELS, TYPE C	4.00 EA-DY
743004	FURNISH AND MAINTAIN PORTABLE CHANGEABLE MESSAGE SIGN	14.00 EA-DY
743005	FURNISH AND MAINTAIN PORTABLE LIGHT ASSEMBLY	16.00 EA-DY
743007	** TRAFFIC OFFICERS	40.00 HOUR
743010	FURNISH AND MAINTAIN TRUCK MOUNTED ATTENUATOR, TYPE II	4.00 EA-DY
743051	** FLAGGER, KENT COUNTY, STATE	120.00 HOUR
743063	** FLAGGER, KENT COUNTY, STATE, OVERTIME	18.00 HOUR
748015	PERMANENT PAVEMENT STRIPING, SYMBOL/LEGEND ALKYD-THERMOPLAST IC	360.00 S.F.
748019	TEMPORARY MARKINGS, PAINT, 4"	2,650.00 L.F.
748026	TEMPORARY MARKINGS, PAINT SYMBOL/LEGEND	360.00 S.F.
748548	PERMANENT PAVEMENT STRIPING, EPOXY RESIN PAINT, WHITE/YELLOW, 5"	2,650.00 L.F.
760502	PAVEMENT MILLING, TAPER CUT	710.00 SY-IN
761001	BUTT JOINTS, HOT MIX	178.00 S.Y.
762001	SAW CUTTING, HOT MIX	120.00 L.F.
763621	CONSTRUCTION ENGINEERING, REHABILITATION	4.00 HOUR

** DENOTES FIXED PRICE ITEM

CENTRAL
MAINTENANCE

PAVEMENT & REHABILITATION, SOUTH I-IV, 2012

LOCATION 5 SR 1 DAFB MAIN GATE RAMP #7006 & 7001 (BASE SIDE) FROM OLD LEBANON RD TO SR1 NORTHBOUND

COMMENTS:

1. RECOMMENDED M.O.T. CASE NO. TA-43.
CASE NO. TA-29 (SIDEWALK).
2. NIGHTTIME WORK HOURS;
AFTER SEPTEMBER 10, 2012 (FALL) - 8:00PM TO 6:00AM (SUNDAY THRU THURSDAY).
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. 2" MILL AND 2" TAPER MILL THRU CURBED AREAS AS DIRECTED BY THE ENGINEER.
5. HOT-MIX OVERLAY NOTES*

 - A. USE 64-22 (NC) TYPE C WARM-MIX FOR FULL WIDTH OVERLAY.
 - B. *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.
 - C. THE MILL/PAVE LIMITS FOR THIS LOCATION START/END AT OLD LEBANON ROAD. THE PROJECT DOES NOT INCLUDE THE TRAVEL LANES OF OLD LEBANON ROAD. ADVANCED NOTIFICATION OF DAFB PERSONNEL WILL BE REQUIRED BEFORE CONSTRUCTION.

COPY

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CENTRAL PAVEMENT & REHABILITATION, SOUTH I-IV, 2012
MAINTENANCE

CONTRACT QUANTITIES SUMMARY SHEET

212001	UNDERCUT EXCAVATION, PATCHING	8.00 C.Y.
302005	GRADED AGGREGATE BASE COURSE, TYPE B	28.00 TON
302008	GRADED AGGREGATE BASE COURSE, TYPE B, PATCHING	80.00 C.Y.
401696	ENTRANCE, DRIVEWAY AND INTERSECTING STREET PAVING SURCHARGE	473.00 TON
401801	WMA, SUPERPAVE, TYPE C, 160 GYRATIONS, PG 64-22 (CARBONATE STONE)	5,605.00 TON
401823	WMA, SUPERPAVE, BITUMINOUS CONCRETE BASE COURSE, 160 GYRATIONS, PG 64-22, PATCHING	272.20 TON
401827	WMA, SUPERPAVE, TYPE C, 160 GYRATIONS, PG 64-22 (NON- CARBONATE STONE)	920.00 TON
401833	WMA, SUPERPAVE, TYPE C, 160 GYRATIONS, PG 76-22, (NON- CARBONATE STONE)	9,174.00 TON
402000	HOT-MIX BITUMINOUS CONCRETE AND/OR COLD-LAID BITUMINOUS CONCRETE (TRM)	35.00 TON
406001	HOT-MIX PATCHING	800.00 SY-IN
406002	HOT-MIX PATCHING, CONCRETE	8,960.00 SY-IN
503001	PATCHING P.C.C. PAVEMENT, 6' TO 15', TYPE A	32.00 S.Y.
503006	DOWEL BARS	64.00 EACH
503503	** PATCHING CONCRETE	29.00 SY-IN
701010	PORTLAND CEMENT CONCRETE CURB, TYPE 1-8	44.00 L.F.
701022	INTEGRAL PORTLAND CEMENT CONCRETE CURB & GUTTER, TYPE 3-8	54.00 L.F.
705002	P.C.C. SIDEWALK, 6"	805.00 S.F.
705007	SIDEWALK SURFACE DETECTABLE WARNING SYSTEM	736.00 S.F.
705008	CURB RAMP, TYPE 1	238.00 S.F.
705009	CURB RAMP, TYPE 2, 3, AND/OR 4	3,539.00 S.F.
705010	CURB RAMP, TYPE 5	1,754.00 S.F.
708060	REPLACE DRAINAGE INLET GRATE(S)	1.00 EACH
708061	REPLACE DRAINAGE INLET FRAME(S)	1.00 EACH
708512	DRAINAGE INLET, SPECIAL I	1.00 EACH
710001	ADJUSTING AND REPAIRING EXISTING DRAINAGE INLET	34.00 EACH
710002	ADJUSTING AND REPAIRING EXISTING MANHOLE	6.00 EACH
732004	TOPSOIL (TON)	674.00 TON
734013	PERMANENT GRASS SEEDING, DRY GROUND	8,409.00 S.Y.

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CENTRAL PAVEMENT & REHABILITATION, SOUTH I-IV, 2012
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CONTRACT QUANTITIES SUMMARY SHEET

743003	ARROWPANELS, TYPE C	59.00 EA-DY
743004	FURNISH AND MAINTAIN PORTABLE CHANGEABLE MESSAGE SIGN	70.00 EA-DY
743005	FURNISH AND MAINTAIN PORTABLE LIGHT ASSEMBLY	236.00 EA-DY
743007	** TRAFFIC OFFICERS	590.00 HOUR
743010	FURNISH AND MAINTAIN TRUCK MOUNTED ATTENUATOR, TYPE II	59.00 EA-DY
743051	** FLAGGER, KENT COUNTY, STATE	2,320.00 HOUR
743063	** FLAGGER, KENT COUNTY, STATE, OVERTIME	354.00 HOUR
744505	ADJUST OR REPAIR EXISTING CONDUIT JUNCTION WELL	12.00 EACH
744520	CONDUIT JUNCTION WELL, TYPE 1, PRECAST CONCRETE	1.00 EACH
744523	CONDUIT JUNCTION WELL, TYPE 4, PRECAST CONCRETE	2.00 EACH
744525	REMOVAL OF EXISTING JUNCTION WELL	2.00 EACH
745521	SUPPLY OF 4" SDR-13.5 HDPE CONDUIT	50.00 L.F.
745527	SUPPLY OF 2 1/2" GALVANIZED STEEL CONDUIT	200.00 L.F.
745533	SUPPLY OF 2 1/2" SCHEDULE 40 PVC CONDUIT	15.00 L.F.
745535	SUPPLY OF 1 1/2" SCHEDULE 40 PVC CONDUIT	50.00 L.F.
745542	INSTALLATION OF CONDUIT UNDER EXISTING PAVEMENT-DIRECTIONAL BORE	100.00 L.F.
745543	INSTALLATION OF CONDUIT UNDER EXISTING PAVEMENT-OPEN CUT	75.00 L.F.
745544	INSTALLATION OF CONDUIT IN UNPAVED TRENCH	110.00 L.F.
746774	SUPPLY AND INSTALLATION OF LOOP DETECTOR WIRE	7,236.00 L.F.
746776	LOOP DETECTOR SPLICE	89.00 EACH
746830	REMOVAL OF CONCRETE POLE BASES AND CABINET FOUNDATIONS	5.00 C.Y.
746850	POLE BASE, TYPE 4	16.00 EACH
748015	PERMANENT PAVEMENT STRIPING, SYMBOL/LEGEND ALKYD-THERMOPLAST IC	9,928.00 S.F.
748019	TEMPORARY MARKINGS, PAINT, 4"	88,339.00 L.F.
748026	TEMPORARY MARKINGS, PAINT SYMBOL/LEGEND	7,699.00 S.F.
748027	PERMANENT PAVEMENT STRIPING, ALKYD-THERMOPLASTIC, 12"	785.00 L.F.
748033	PERMANENT PAVEMENT STRIPING, ALKYD-THERMOPLASTIC, 5"	4,442.00 L.F.
748502	RAISED/RECESSED PAVEMENT MARKER	278.00 EACH

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CENTRAL PAVEMENT & REHABILITATION, SOUTH I-IV, 2012
MAINTENANCE

CONTRACT QUANTITIES SUMMARY SHEET

748529	RETROREFLECTIVE PREFORMED PATTERNED MARKINGS, SYMBOL/LEGEND	35.00 S.F.
748548	PERMANENT PAVEMENT STRIPING, EPOXY RESIN PAINT, WHITE/YELLOW, 5"	88,339.00 L.F.
748549	PERMANENT PAVEMENT STRIPING, EPOXY RESIN PAINT, WHITE/YELLOW, 10"	410.00 L.F.
748553	PREFORMED RETROREFLECTIVE THERMOPLASTIC PAVEMENT MARKINGS, BIKE SYMBOL	2.00 EACH
748557	PERMANENT PAVEMENT STRIPING, EPOXY RESIN PAINT, BLACK, 3"	2,315.00 L.F.
748559	PERMANENT PAVEMENT STRIPING, EPOXY RESIN PAINT, BLACK, 5"	600.00 L.F.
748568	PERMANENT PAVEMENT STRIPING, EPOXY RESIN PAINT, BLACK, 9"	1,945.00 L.F.
749687	INSTALLATION OR REMOVAL OF TRAFFIC SIGN(S) ON SINGLE SIGN POST	19.00 EACH
758000	REMOVAL OF EXISTING PORTLAND CEMENT CONCRETE PAVEMENT, CURB, SIDEWALK, ETC.	103.00 S.Y.
760502	PAVEMENT MILLING, TAPER CUT	16,824.00 SY-IN
760507	PROFILE MILLING, HOT-MIX	29,556.00 SY-IN
761001	BUTT JOINTS, HOT MIX	4,181.00 S.Y.
762001	SAW CUTTING, HOT MIX	3,857.00 L.F.
762002	SAW CUTTING, CONCRETE, FULL DEPTH	1,330.00 L.F.
763000	INITIAL EXPENSE	LUMP SUM
763621	CONSTRUCTION ENGINEERING, REHABILITATION	43.00 HOUR
763643	MAINTENANCE OF TRAFFIC, ALL INCLUSIVE	LUMP SUM

** DENOTES FIXED PRICE ITEM