

**LOCATION 3**                      **MARSHALL ST (S225) - (LINCOLN) FROM CLENDANIEL RD(S38) TO JOHNSON RD(S207)**

LENGTH            394.716 m                      1295 L.F.            AADT    1275

**GENERAL IMPROVEMENTS**

2" MILLING AND 2" TYPE C (64-22,C) FULL WIDTH OVERLAY.

**COMMENTS:**

Please see attached sheets for comments

**MATERIAL ESTIMATE FOR LOCATION 3**

302005	GRADED AGGREGATE BASE COURSE, TYPE B	480.00 TON
302007	GRADED AGGREGATE BASE COURSE, TYPE B	1.00 C.Y.
401801	BITUMINOUS CONCRETE, SUPERPAVE, TYPE C, 160 GYRATIONS PG 64-22 (CARBONATE STONE)	574.00 TON
402000	BITUMINOUS CONCRETE AND/OR COLD-LAID BITUMINOUS CONCRETE (TRM)	5.00 TON
705002	P.C.C. SIDEWALK, 6"	63.00 S.F.
708060	REPLACE DRAINAGE INLET GRATE(S)	2.00 EACH
708061	REPLACE DRAINAGE INLET FRAME(S)	2.00 EACH
710001	ADJUSTING AND REPAIRING EXISTING DRAINAGE INLET	4.00 EACH
743003	ARROWPANELS, TYPE C	2.00 EA-DY
743004	FURNISH AND MAINTAIN PORTABLE CHANGEABLE MESSAGE SIGN	14.00 EA-DY
743052	FLAGGER, SUSSEX COUNTY, STATE	75.00 HOUR
743064	FLAGGER, SUSSEX COUNTY, STATE, OVERTIME	11.00 HOUR
746924	FURNISH & INSTALL LOOP WIRE 1-CONDUCTOR #14 AWG ENCASED IN 1/4" FLEXIBLE TUBING IN A LOOP SAWCUT	180.00 L.F.
748015	PERMANENT PAVEMENT STRIPING, SYMBOL/LEGEND ALKYD-THERMOPLAST IC	300.00 S.F.
748019	TEMPORARY MARKINGS, PAINT, 4"	9,900.00 L.F.
748026	TEMPORARY MARKINGS, PAINT SYMBOL/LEGEND	600.00 S.F.
748548	PERMANENT PAVEMENT STRIPING, EPOXY RESIN PAINT, WHITE/YELLOW, 5"	4,950.00 L.F.
758000	REMOVAL OF EXISTING PORTLAND CEMENTCONCRETE PAVEMENT, CURB, SIDEWALK, ETC.	14.00 S.Y.
760507	PROFILE MILLING, BITUMINOUS CONCRETE	9,784.00 SY-IN
762001	SAW CUTTING, BITUMINOUS CONCRETE	480.00 L.F.
762002	SAW CUTTING, CONCRETE, FULL DEPTH	20.00 L.F.
908001	TOPSOIL (TON)	36.00 TON
908014	PERMANENT GRASS SEEDING, DRY GROUND	432.00 S.Y.

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LOCATION 3 MARSHALL ST (S225) - (LINCOLN) FROM CLENDANIEL RD(S38) TO JOHNSON RD(S207)

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**COMMENTS:**

1. RECOMMENDED M.O.T. TYPICAL APPLICATION, TA-10 (TRAVEL LANES) .  
TYPICAL APPLICATION, TA-3 (SHOULDERS) .
2. DAYTIME WORK HOURS: 8:00A - 6:00P.
3. THE WORK SHALL BE COMPLETED WHILE SCHOOL IS OUT OF SESSION. THE DISTRICTS SCHEDULED SUMMER CLOSURE FOR STUDENETS BEGINS JUNE 12, 2015 AND RE-OPENS AUGUST 31, 2015.
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. GABC ITEM 302005 AND QUANTITY IS FOR UNIMPROVED DRIVEWAYS.
6. THE P.C.C. REMOVAL AND 6" SIDEWALK ITEMS ARE FOR CONCRETE DRIVEWAYS.
7. DRAINAGE INLETS ARE LOCATED NEAR AND ACROSS FROM THE SCHOOL ENTRANCES.

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**LOCATION 4**                      **MARSHALL ST (S225) - (MILFORD) FROM JOHNSON RD(S207) TO ELKS LODGE RD(S211)**

LENGTH      2983.992 m                      9790 L.F.                      AADT      1525

**GENERAL IMPROVEMENTS**

6" FULL DEPTH RECLAMATION AND 2" TYPE C (64-22, C) FULL WIDTH OVERLAY.

**COMMENTS:**

Please see attached sheets for comments

**MATERIAL ESTIMATE FOR LOCATION 4**

302005	GRADED AGGREGATE BASE COURSE, TYPE B	66.00 TON
302007	GRADED AGGREGATE BASE COURSE, TYPE B	12.00 C.Y.
304508	BITUMINOUS STABILIZED FULL-DEPTH RECLAMATION	36,984.00 S.Y.
401696	ENTRANCE, DRIVEWAY AND INTERSECTING STREET PAVING SURCHARGE	178.00 TON
401713	EMULSIFIED ASPHALT	110,953.00 GAL
401801	BITUMINOUS CONCRETE, SUPERPAVE, TYPE C, 160 GYRATIONS PG 64-22 (CARBONATE STONE)	4,633.00 TON
705002	P.C.C. SIDEWALK, 6"	630.00 S.F.
708060	REPLACE DRAINAGE INLET GRATE(S)	2.00 EACH
708061	REPLACE DRAINAGE INLET FRAME(S)	2.00 EACH
710001	ADJUSTING AND REPAIRING EXISTING DRAINAGE INLET	25.00 EACH
716502	CONVERTING EXISTING CATCH BASIN TO DRAINAGE INLET	2.00 EACH
743003	ARROW PANELS, TYPE C	17.00 EA-DY
743004	FURNISH AND MAINTAIN PORTABLE CHANGEABLE MESSAGE SIGN	14.00 EA-DY
743010	FURNISH AND MAINTAIN TRUCK MOUNTED ATTENUATOR, TYPE II	17.00 EA-DY
743052	FLAGGER, SUSSEX COUNTY, STATE	517.00 HOUR
743064	FLAGGER, SUSSEX COUNTY, STATE, OVERTIME	77.00 HOUR
744530	CONDUIT JUNCTION WELL, TYPE 11, PRECAST CONCRETE/ POLYMER LID-FRAME	7.00 EACH
744531	CONDUIT JUNCTION WELL, TYPE 14, PRECAST CONCRETE/ POLYMER LID-FRAME	1.00 EACH
745602	FURNISH & INSTALL UP TO 4" SCHEDULE 80 HDPE CONDUIT (BORE)	250.00 L.F.
745604	FURNISH & INSTALL UP TO 4" SCHEDULE 80 PVC CONDUIT (TRENCH)	190.00 L.F.
745606	FURNISH & INSTALL UP TO 4" GALVANIZED STEEL CONDUIT (TRENCH)	90.00 L.F.
745607	FURNISH & INSTALL UP TO 4" GALVANIZED STEEL CONDUIT (BORE)	50.00 L.F.
745609	FURNISH & INSTALL UP TO 4" GALVANIZED STEEL CONDUIT (ON STRUCTURE)	30.00 L.F.
746555	SHEETING FOR POLE BASE	1.00 EACH
746847	POLE BASE, TYPE 3	1.00 EACH
746924	FURNISH & INSTALL LOOP WIRE 1-CONDUCTOR #14 AWG ENCASED IN 1/4" FLEXIBLE TUBING IN A LOOP SAWCUT	180.00 L.F.
747516	CABINET BASE, TYPE P	1.00 EACH

**LOCATION 4**                      **MARSHALL ST (S225) - (MILFORD) FROM JOHNSON RD(S207) TO ELKS LODGE RD(S211)**

LENGTH      2983.992 m                      9790 L.F.                      AADT      1525

**GENERAL IMPROVEMENTS**

6" FULL DEPTH RECLAMATION AND 2" TYPE C (64-22, C) FULL WIDTH OVERLAY.

**COMMENTS:**

Please see attached sheets for comments

**MATERIAL ESTIMATE FOR LOCATION 4**

748015	PERMANENT PAVEMENT STRIPING, SYMBOL/LEGEND ALKYD-THERMOPLAST IC	200.00 S.F.
748019	TEMPORARY MARKINGS, PAINT, 4"	60,800.00 L.F.
748026	TEMPORARY MARKINGS, PAINT SYMBOL/LEGEND	400.00 S.F.
748548	PERMANENT PAVEMENT STRIPING, EPOXY RESIN PAINT, WHITE/YELLOW, 5"	30,400.00 L.F.
749687	INSTALLATION OR REMOVAL OF TRAFFIC SIGN(S) ON SINGLE SIGN POST	27.00 EACH
749690	INSTALLATION OR REMOVAL OF TRAFFIC SIGNS ON MULTIPLE SIGN POSTS	66.00 S.F.
758000	REMOVAL OF EXISTING PORTLAND CEMENTCONCRETE PAVEMENT, CURB, SIDEWALK, ETC.	140.00 S.Y.
761001	BUTT JOINTS, HOT MIX	1,574.00 S.Y.
762001	SAW CUTTING, BITUMINOUS CONCRETE	2,240.00 L.F.
762002	SAW CUTTING, CONCRETE, FULL DEPTH	200.00 L.F.
908001	TOPSOIL (TON)	269.00 TON
908014	PERMANENT GRASS SEEDING, DRY GROUND	3,263.00 S.Y.

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PAVEMENT & REHABILITATION, SUSSEX I, (LINCOLN AREA), 2015

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LOCATION 4 MARSHALL ST (S225) - (MILFORD) FROM JOHNSON RD(S207) TO ELKS LODGE  
RD(S211)

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COMMENTS:

1. RECOMMENDED M.O.T. TYPICAL APPLICATION, TA-20 ROAD CLOSURE, DETOUR (FDR)  
. TYPICAL APPLICATION, TA-10 (TRAVEL LANES).  
. TYPICAL APPLICATION, TA-3 (SHOULDERS).
2. DAYTIME WORK HOURS: 8:00A - 6:00P.
3. THE WORK SHALL BE COMPLETED WHILE SCHOOL IS OUT OF SESSION. THE DISTRICTS SCHEDULED  
SUMMER CLOSURE FOR STUDENETS BEGINS JUNE 12, 2015 AND RE-OPENS AUGUST 31, 2015.
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. GABC ITEM 302005 AND QUANTITY IS FOR UNIMPROVED DRIVEWAYS.
6. DRAINAGE INLETS\*  
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A. CONVERT TWO PWBD DRAINAGE INLETS TO BE PAID UNDER ITEM 716502.  
. 1. HOUSE BOX NO. 6821.  
. 2. DUNLAP DR.  
  
\*CONFIRM DIMENSIONS IN THE FIELD.
7. RECLAMATION NOTES  
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A. ROAD CLOSURE WILL BE PERMITTED FOR RECLAMATION OPERATIONS "ONLY". SEE ATTACHED  
DETOUR PLAN SHEET AS PER THE TRAFFIC SECTIONS RECOMMENDATION. RECOMMENDED  
M.O.T. CASE TA-10 FOR REMAINDER OF OPERATIONS.  
  
B. SEE ATTACHED PAGES 24A AND 24B OF 37 FOR CORE INFORMATION.  
  
C. CORE SHEETS ARE FOR INFORMATIONAL PURPOSES ONLY AND MAY NOT BE REPRESENTATIVE  
OF ALL CONDITION PRESENT IN THE FIELD.  
  
D. STABILIZATION MUST OCCUR ON THE SAME DAY AS THE RECLAMATION.

# CORE RESULTS

**Maintenance # S225**

**Road Name:** Marshall Street - T201506301

**Coring Date:** 4/11/2012

**Limits:** Greely Avenue and Abbott Drive

Core #	Location Description	Lane	Offset	GPS Coordinates	HMA	PCC	ST	ATB	CTB	SC	CR	Stone	Sand	Other	Layer Order	
1	100' South of Abbott Drive	Travel	5 ft. Right Centerline		1.25		1.25	2.25					yes		HMA - ATB - ST	
SB																
2	1500' South of Abbott Drive	Travel	5 ft. Right Centerline		3.5		1.25	1					yes		HMA - ATB - ST	
SB																
3	2800' South of Abbott Drive	Travel	7 ft. Right Centerline		4.75		1.25	1.5					yes		HMA - ATB - ST	
SB																
4	4200' South of Abbott Drive	Travel	5 ft. Right Centerline		4.75		1.5	1					yes		HMA - ATB - ST	
SB																
5	5600' South of Abbott Drive	Travel	6 ft. Right Centerline		4.75		1.25	1					yes		HMA - aTB - ST	
SB																
6	7000' South of Abbott Drive	Travel	6 ft. Right Centerline		5		1.25						yes		HMA - ST	
SB																
7	200' North of Greely Ave	Travel	6 ft. Right Centerline		6		1.5						yes		HMA - ST	
NB																
8	1600' North of Greely Ave	Travel	6 ft. Right Centerline		4.5		1.5	0.75					yes		HMA - ATB - ST	
NB																

**Abbreviations:** HMA - Asphalt PCC - Concrete ST - Surface Treatment ATB - Asphalt Treated Base CTB - Cement Treated Base SC - Soil Cement CR - Crusher Run

**Maintenance # S225**

**Road Name: Marshall Street - T201506301**

**Coring Date: 4/11/2012**

**Limits: Greely Avenue and Abbott Drive**

Core #	Location Description	Lane	Offset	GPS Coordinates	HMA	PCC	ST	ATB	CTB	SC	CR	Stone	Sand	Other	Layer Order
9	3000' North of Greely Ave	Travel	6 ft. Right Centerline		5.25		1.25	3.5					yes		HMA - aTB - ST
NB															
10	4400' North of Greely Ave	Travel	6 ft. Right Centerline		7.25		1.25						yes		HMA - ST
NB															
11	5800' North of Greely Ave	Travel	6 ft. Right Centerline		3.5		1.5	1.5					yes		HMA - ATB - ST
NB															
12	7200' North of Greely Ave	Travel	6 ft. Right Centerline		3.25		1.25	1.5					yes		HMA - ATB - ST
NB															

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**Abbreviations: HMA - Asphalt PCC - Concrete ST - Surface Treatment ATB - Asphalt Treated Base CTB - Cement Treated Base SC - Soil Cement CR - Crusher Run**  
 Tuesday, April 28, 2015 Page 2 of 2

LOCATION 5 SHAWNEE RD (S36) FROM DE16, BEACH HWY (S16) TO BLACKSMITH RD (S44)

LENGTH 8698.992 m 28540 L.F. AADT 3835

GENERAL IMPROVEMENTS

BIT. ASPHALT PATCHING AND 2 1/2" ( 2 - 1 1/4" LIFTS) TYPE C (64-22, C) FULL WIDTH OVERLAY.

COMMENTS:

Please see attached sheets for comments

MATERIAL ESTIMATE FOR LOCATION 5

302005	GRADED AGGREGATE BASE COURSE, TYPE B	115.00 TON
302007	GRADED AGGREGATE BASE COURSE, TYPE B	4.00 C.Y.
401696	ENTRANCE, DRIVEWAY AND INTERSECTING STREET PAVING SURCHARGE	254.00 TON
401801	BITUMINOUS CONCRETE, SUPERPAVE, TYPE C, 160 GYRATIONS PG 64-22 (CARBONATE STONE)	17,811.00 TON
401823	BITUMINOUS CONCRETE, SUPERPAVE, BITUMINOUS CONCRETE BASE COURSE, 160 GYRATIONS, PG 64-22, PATCHING	153.00 TON
406001	BITUMINOUS CONCRETE PATCHING	2,667.00 SY-IN
705002	P.C.C. SIDEWALK, 6"	189.00 S.F.
743003	ARROW PANELS, TYPE C	31.00 EA-DY
743004	FURNISH AND MAINTAIN PORTABLE CHANGEABLE MESSAGE SIGN	14.00 EA-DY
743010	FURNISH AND MAINTAIN TRUCK MOUNTED ATTENUATOR, TYPE II	31.00 EA-DY
743052	FLAGGER, SUSSEX COUNTY, STATE	1,241.00 HOUR
743064	FLAGGER, SUSSEX COUNTY, STATE, OVERTIME	186.00 HOUR
748015	PERMANENT PAVEMENT STRIPING, SYMBOL/LEGEND ALKYD-THERMOPLASTIC	250.00 S.F.
748019	TEMPORARY MARKINGS, PAINT, 4"	184,500.00 L.F.
748026	TEMPORARY MARKINGS, PAINT SYMBOL/LEGEND	500.00 S.F.
748502	RAISED/RECESSED PAVEMENT MARKER	357.00 EACH
748548	PERMANENT PAVEMENT STRIPING, EPOXY RESIN PAINT, WHITE/YELLOW, 5"	92,250.00 L.F.
758000	REMOVAL OF EXISTING PORTLAND CEMENT CONCRETE PAVEMENT, CURB, SIDEWALK, ETC.	42.00 S.Y.
761001	BUTT JOINTS, HOT MIX	2,246.00 S.Y.
762001	SAW CUTTING, BITUMINOUS CONCRETE	2,090.00 L.F.
762002	SAW CUTTING, CONCRETE, FULL DEPTH	60.00 L.F.
908001	TOPSOIL (TON)	892.00 TON
908014	PERMANENT GRASS SEEDING, DRY GROUND	9,513.00 S.Y.

SOUTH  
MAINTENANCE

PAVEMENT & REHABILITATION, SUSSEX I, (LINCOLN AREA), 2015

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LOCATION 5 SHAWNEE RD (S36) FROM DE16, BEACH HWY (S16) TO BLACKSMITH RD (S44)

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COMMENTS:

1. RECOMMENDED M.O.T. TYPICAL APPLICATION, TA-10 (TRAVEL LANES) .  
TYPICAL APPLICATION, TA-3 (SHOULDERS) .
  2. DAYTIME WORK HOURS: 8:00A - 6:00P.
  3. THIS LOCATION IS WITHIN THE ROUTE FOR THE SPECIAL OLYMPICS TRUCK CONVOY THAT IS TYPICALLY HELD IN OCTOBER, THE EXACT DATE HAS YET TO BE DETERMINED. ALL WORK SHALL BE COMPLETED IN ITS ENTIRETY PRIOR TO THE TRUCK CONVOY EVENT OR NO WORK SHALL BE PERMITTED UNTIL AFTER THE SCHEDULED EVENT HAS OCCURED.
  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. GABC ITEM 302005 AND QUANTITY IS FOR UNIMPROVED DRIVEWAYS.
  6. THE P.C.C. REMOVAL AND 6" SIDEWALK ITEMS ARE FOR CONCRETE DRIVEWAYS.
  7. HOT-MIX OVERLAY NOTES
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- A. 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.

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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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**LOCATION 6** SR1 & CEDAR CREEK RD, RAMP 801-2 - (MILFORD) FROM SR1, NORTHBOUND TO DE16, CEDAR CREEK RD (S36)

LENGTH 283.464 m 930 L.F. AADT 516

**GENERAL IMPROVEMENTS**

2" MILLING AND 2" TYPE C (64-22, C) FULL WIDTH OVERLAY.

**COMMENTS:**

Please see attached sheets for comments

**MATERIAL ESTIMATE FOR LOCATION 6**

202000	EXCAVATION AND EMBANKMENT	12.20 C.Y.
211002	REMOVAL OF STRUCTURES AND OBSTRUCTIONS (GUARDRAIL)	50.00 L.F.
302007	GRADED AGGREGATE BASE COURSE, TYPE B	10.40 C.Y.
401801	BITUMINOUS CONCRETE, SUPERPAVE, TYPE C, 160 GYRATIONS PG 64-22 (CARBONATE STONE)	337.00 TON
401823	BITUMINOUS CONCRETE, SUPERPAVE, BITUMINOUS CONCRETE BASE COURSE, 160 GYRATIONS, PG 64-22, PATCHING	3.00 TON
402000	BITUMINOUS CONCRETE AND/OR COLD-LAID BITUMINOUS CONCRETE (TRM)	3.00 TON
701011	PORTLAND CEMENT CONCRETE CURB, TYPE 2	85.00 L.F.
705002	P.C.C. SIDEWALK, 6"	265.00 S.F.
743003	ARROWPANELS, TYPE C	2.00 EA-DY
743004	FURNISH AND MAINTAIN PORTABLE CHANGEABLE MESSAGE SIGN	14.00 EA-DY
743010	FURNISH AND MAINTAIN TRUCK MOUNTED ATTENUATOR, TYPE II	2.00 EA-DY
743052	FLAGGER, SUSSEX COUNTY, STATE	64.00 HOUR
743064	FLAGGER, SUSSEX COUNTY, STATE, OVERTIME	10.00 HOUR
748015	PERMANENT PAVEMENT STRIPING, SYMBOL/LEGEND ALKYD-THERMOPLASTIC	50.00 S.F.
748019	TEMPORARY MARKINGS, PAINT, 4"	3,800.00 L.F.
748026	TEMPORARY MARKINGS, PAINT SYMBOL/LEGEND	100.00 S.F.
748548	PERMANENT PAVEMENT STRIPING, EPOXY RESIN PAINT, WHITE/YELLOW, 5"	1,900.00 L.F.
760507	PROFILE MILLING, BITUMINOUS CONCRETE	5,787.00 SY-IN
762001	SAW CUTTING, BITUMINOUS CONCRETE	215.00 L.F.
908001	TOPSOIL (TON)	26.00 TON
908014	PERMANENT GRASS SEEDING, DRY GROUND	310.00 S.Y.

SOUTH  
MAINTENANCE

PAVEMENT & REHABILITATION, SUSSEX I, (LINCOLN AREA), 2015

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LOCATION 6 SR1 & CEDAR CREEK RD, RAMP 801-2 - (MILFORD) FROM SR1, NORTHBOUND TO  
DE16, CEDAR CREEK RD (S36)

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COMMENTS:

1. RECOMMENDED M.O.T. TYPICAL APPLICATION, TA-42.  
TYPICAL APPLICATION, TA-43.  
TYPICAL APPLICATION, TA-44.
  2. DAYTIME WORK HOURS: 8:00A - 6:00P.
  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. DO NOT OVERLAY CEDAR BEACH RD.
  5. GUARDRAIL NOTES
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- A. REPLACE THE EXISTING (ET-PLUS SYSTEM) END TREATMENT, TO BE PAID UNDER ITEM 720585.

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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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**LOCATION 7** SR1 & CEDAR CREEK RD, RAMP 801-3 - (MILFORD) FROM DE16, CEDAR CREEK RD (S36) TO SR1, SOUTHBOUND

LENGTH 271.272 m 890 L.F. AADT 516

**GENERAL IMPROVEMENTS**

2" MILLING AND 2" TYPE C (64-22, C) FULL WIDTH OVERLAY.

**COMMENTS:**

Please see attached sheets for comments

**MATERIAL ESTIMATE FOR LOCATION 7**

211002	REMOVAL OF STRUCTURES AND OBSTRUCTIONS (GUARDRAIL)	45.00 L.F.
302007	GRADED AGGREGATE BASE COURSE, TYPE B	10.00 C.Y.
401801	BITUMINOUS CONCRETE, SUPERPAVE, TYPE C, 160 GYRATIONS PG 64-22 (CARBONATE STONE)	352.00 TON
402000	BITUMINOUS CONCRETE AND/OR COLD-LAID BITUMINOUS CONCRETE (TRM)	3.00 TON
701011	PORTLAND CEMENT CONCRETE CURB, TYPE 2	30.00 L.F.
705002	P.C.C. SIDEWALK, 6"	450.00 S.F.
725002	GUARDRAIL TO BARRIER CONNECTION, APPROACH TYPE 1-31	1.00 EACH
726001	END ANCHORAGE 31	1.00 EACH
743003	ARROWPANELS, TYPE C	2.00 EA-DY
743004	FURNISH AND MAINTAIN PORTABLE CHANGEABLE MESSAGE SIGN	14.00 EA-DY
743010	FURNISH AND MAINTAIN TRUCK MOUNTED ATTENUATOR, TYPE II	2.00 EA-DY
743052	FLAGGER, SUSSEX COUNTY, STATE	64.00 HOUR
743064	FLAGGER, SUSSEX COUNTY, STATE, OVERTIME	10.00 HOUR
748019	TEMPORARY MARKINGS, PAINT, 4"	4,300.00 L.F.
748548	PERMANENT PAVEMENT STRIPING, EPOXY RESIN PAINT, WHITE/YELLOW, 5"	2,150.00 L.F.
758000	REMOVAL OF EXISTING PORTLAND CEMENT CONCRETE PAVEMENT, CURB, SIDEWALK, ETC.	57.00 S.Y.
760507	PROFILE MILLING, BITUMINOUS CONCRETE	6,056.00 SY-IN
762001	SAW CUTTING, BITUMINOUS CONCRETE	160.00 L.F.
762002	SAW CUTTING, CONCRETE, FULL DEPTH	32.00 L.F.
908001	TOPSOIL (TON)	26.00 TON
908014	PERMANENT GRASS SEEDING, DRY GROUND	303.00 S.Y.

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LOCATION 7 SR1 & CEDAR CREEK RD, RAMP 801-3 - (MILFORD) FROM DE16, CEDAR CREEK RD  
(S36) TO SR1, SOUTHBOUND

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COMMENTS:

1. RECOMMENDED M.O.T. TYPICAL APPLICATION, TA-42.  
. TYPICAL APPLICATION, TA-43.  
. TYPICAL APPLICATION, TA-44.
2. DAYTIME WORK HOURS: 8:00A - 6:00P.
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. REPLACE DAMAGED/DETERIORATED PCC CURB AND MEDIAN CONCRETE AT ISLAND IN KIND.
5. DO NOT OVERLAY CEDAR BEACH RD.
6. GUARDRAIL NOTES  
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  - A. REPLACE THE EXISTING DAMAGED GUARDRAIL TO BRIDGE BARRIER, TO BE PAID UNDER ITEM 725005.
  - B. REPLACE THE EXISTING END ANCHORAGE(MISSING COMPONENTS), TO BE PAID UNDER ITEM 726001.-----

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, SUSSEX I, (LINCOLN AREA), 2015

LOCATION 8 SR1 & CEDAR CREEK RD, RAMP 801-6 - (MILFORD) FROM DE16, CEDAR CREEK RD (S36) TO SR1, NORTHBOUND

LENGTH 167.64 m 550 L.F. AADT 516

GENERAL IMPROVEMENTS

2" MILLING AND 2" TYPE C (64-22, C) FULL WIDTH OVERLAY.

COMMENTS:

Please see attached sheets for comments

MATERIAL ESTIMATE FOR LOCATION 8

211002	REMOVAL OF STRUCTURES AND OBSTRUCTIONS (GUARDRAIL)	15.00 L.F.
401801	BITUMINOUS CONCRETE, SUPERPAVE, TYPE C, 160 GYRATIONS PG 64-22 (CARBONATE STONE)	225.00 TON
402000	BITUMINOUS CONCRETE AND/OR COLD-LAID BITUMINOUS CONCRETE (TRM)	2.00 TON
710001	ADJUSTING AND REPAIRING EXISTING DRAINAGE INLET	1.00 EACH
726001	END ANCHORAGE 31	1.00 EACH
743003	ARROWPANELS, TYPE C	2.00 EA-DY
743004	FURNISH AND MAINTAIN PORTABLE CHANGEABLE MESSAGE SIGN	14.00 EA-DY
743010	FURNISH AND MAINTAIN TRUCK MOUNTED ATTENUATOR, TYPE II	2.00 EA-DY
743052	FLAGGER, SUSSEX COUNTY, STATE	40.00 HOUR
743064	FLAGGER, SUSSEX COUNTY, STATE, OVERTIME	6.00 HOUR
748019	TEMPORARY MARKINGS, PAINT, 4"	2,400.00 L.F.
748548	PERMANENT PAVEMENT STRIPING, EPOXY RESIN PAINT, WHITE/YELLOW, 5"	1,200.00 L.F.
760507	PROFILE MILLING, BITUMINOUS CONCRETE	3,864.00 SY-IN
762001	SAW CUTTING, BITUMINOUS CONCRETE	130.00 L.F.
908001	TOPSOIL (TON)	15.00 TON
908014	PERMANENT GRASS SEEDING, DRY GROUND	183.00 S.Y.

SOUTH  
MAINTENANCE

PAVEMENT & REHABILITATION, SUSSEX I, (LINCOLN AREA), 2015

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LOCATION 8 SR1 & CEDAR CREEK RD, RAMP 801-6 - (MILFORD) FROM DE16, CEDAR CREEK RD  
(S36) TO SR1, NORTHBOUND

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COMMENTS:

1. RECOMMENDED M.O.T. TYPICAL APPLICATION, TA-42.  
. TYPICAL APPLICATION, TA-43.  
. TYPICAL APPLICATION, TA-44.
2. DAYTIME WORK HOURS: 8:00A - 6:00P.
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. DO NOT OVERLAY CEDAR BEACH RD.
5. GUARDRAIL NOTES  
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A. REPLACE THE EXISTING END ANCHORAGE, TO BE PAID UNDER ITEM 726001.

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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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**LOCATION 9** SR1 & CEDAR CREEK RD, RAMP 801-7 - (MILFORD) FROM SR1, SOUTHBOUND TO DE16, CEDAR CREEK RD (S36)

LENGTH 143.256 m 470 L.F. AADT 516

**GENERAL IMPROVEMENTS**

2" MILLING AND 2" TYPE C (64-22, C) FULL WIDTH OVERLAY.

**COMMENTS:**

Please see attached sheets for comments

**MATERIAL ESTIMATE FOR LOCATION 9**

211002	REMOVAL OF STRUCTURES AND OBSTRUCTIONS (GUARDRAIL)	50.00 L.F.
401801	BITUMINOUS CONCRETE, SUPERPAVE, TYPE C, 160 GYRATIONS PG 64-22 (CARBONATE STONE)	170.00 TON
402000	BITUMINOUS CONCRETE AND/OR COLD-LAID BITUMINOUS CONCRETE (TRM)	1.00 TON
720585	GUARDRAIL END TREATMENT ATTENUATOR, TYPE 1-31	1.00 EACH
743003	ARROWPANELS, TYPE C	2.00 EA-DY
743004	FURNISH AND MAINTAIN PORTABLE CHANGEABLE MESSAGE SIGN	14.00 EA-DY
743010	FURNISH AND MAINTAIN TRUCK MOUNTED ATTENUATOR, TYPE II	2.00 EA-DY
743052	FLAGGER, SUSSEX COUNTY, STATE	40.00 HOUR
743064	FLAGGER, SUSSEX COUNTY, STATE, OVERTIME	6.00 HOUR
748015	PERMANENT PAVEMENT STRIPING, SYMBOL/LEGEND ALKYD-THERMOPLAST IC	50.00 S.F.
748019	TEMPORARY MARKINGS, PAINT, 4"	2,100.00 L.F.
748026	TEMPORARY MARKINGS, PAINT SYMBOL/LEGEND	100.00 S.F.
748548	PERMANENT PAVEMENT STRIPING, EPOXY RESIN PAINT, WHITE/YELLOW, 5"	1,050.00 L.F.
760507	PROFILE MILLING, BITUMINOUS CONCRETE	2,924.00 SY-IN
762001	SAW CUTTING, BITUMINOUS CONCRETE	130.00 L.F.
908001	TOPSOIL (TON)	13.00 TON
908014	PERMANENT GRASS SEEDING, DRY GROUND	157.00 S.Y.

SOUTH  
MAINTENANCE

PAVEMENT & REHABILITATION, SUSSEX I, (LINCOLN AREA), 2015

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LOCATION 9 SR1 & CEDAR CREEK RD, RAMP 801-7 - (MILFORD) FROM SR1, SOUTHBOUND TO  
DE16, CEDAR CREEK RD (S36)

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COMMENTS:

1. RECOMMENDED M.O.T. TYPICAL APPLICATION, TA-42.  
. TYPICAL APPLICATION, TA-43.  
. TYPICAL APPLICATION, TA-44.
  2. DAYTIME WORK HOURS: 8:00A - 6:00P.
  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. DO NOT OVERLAY CEDAR BEACH RD.
  5. GUARDRAIL NOTES
- 
- A. REPLACE THE EXISTING (ET-PLUS SYSTEM) END TREATMENT, TO BE PAID UNDER ITEM 720585.

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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

CONTRACT: T201506301

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SOUTH PAVEMENT & REHABILITATION, SUSSEX I, (LINCOLN AREA), 2015  
 MAINTENANCE

CONTRACT QUANTITIES SUMMARY SHEET

202000	EXCAVATION AND EMBANKMENT	12.20 C.Y.
211002	REMOVAL OF STRUCTURES AND OBSTRUCTIONS (GUARDRAIL)	160.00 L.F.
302005	GRADED AGGREGATE BASE COURSE, TYPE B	732.00 TON
302007	GRADED AGGREGATE BASE COURSE, TYPE B	38.40 C.Y.
304508	BITUMINOUS STABILIZED FULL-DEPTH RECLAMATION	36,984.00 S.Y.
401696	ENTRANCE, DRIVEWAY AND INTERSECTING STREET PAVING SURCHARGE	711.00 TON
401713	EMULSIFIED ASPHALT	110,953.00 GAL
401801	BITUMINOUS CONCRETE, SUPERPAVE, TYPE C, 160 GYRATIONS PG 64-22 (CARBONATE STONE)	27,013.00 TON
401823	BITUMINOUS CONCRETE, SUPERPAVE, BITUMINOUS CONCRETE BASE COURSE, 160 GYRATIONS, PG 64-22, PATCHING	286.00 TON
401836	THIN BITUMINOUS CONCRETE, SUPERPAVE, TYPE C, 160 GYRATIONS, PG 64-22	1,396.00 TON
402000	BITUMINOUS CONCRETE AND/OR COLD-LAID BITUMINOUS CONCRETE (TRM)	14.00 TON
406001	BITUMINOUS CONCRETE PATCHING	4,934.00 SY-IN
701011	PORTLAND CEMENT CONCRETE CURB, TYPE 2	115.00 L.F.
705002	P.C.C. SIDEWALK, 6"	1,660.00 S.F.
708060	REPLACE DRAINAGE INLET GRATE(S)	4.00 EACH
708061	REPLACE DRAINAGE INLET FRAME(S)	4.00 EACH
710001	ADJUSTING AND REPAIRING EXISTING DRAINAGE INLET	30.00 EACH
716502	CONVERTING EXISTING CATCH BASIN TO DRAINAGE INLET	2.00 EACH
720585	GUARDRAIL END TREATMENT ATTENUATOR, TYPE 1-31	1.00 EACH
725002	GUARDRAIL TO BARRIER CONNECTION, APPROACH TYPE 1-31	1.00 EACH
726001	END ANCHORAGE 31	2.00 EACH
743003	ARROWPANELS, TYPE C	78.00 EA-DY
743004	FURNISH AND MAINTAIN PORTABLE CHANGEABLE MESSAGE SIGN	126.00 EA-DY
743010	FURNISH AND MAINTAIN TRUCK MOUNTED ATTENUATOR, TYPE II	76.00 EA-DY
743052	FLAGGER, SUSSEX COUNTY, STATE	2,649.00 HOUR
743064	FLAGGER, SUSSEX COUNTY, STATE, OVERTIME	397.00 HOUR
744530	CONDUIT JUNCTION WELL, TYPE 11, PRECAST CONCRETE/ POLYMER LID-FRAME	7.00 EACH
744531	CONDUIT JUNCTION WELL, TYPE 14, PRECAST CONCRETE/ POLYMER LID-FRAME	1.00 EACH

DELAWARE DEPARTMENT OF TRANSPORTATION

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SOUTH PAVEMENT & REHABILITATION, SUSSEX I, (LINCOLN AREA), 2015  
 MAINTENANCE

CONTRACT QUANTITIES SUMMARY SHEET

745602	FURNISH & INSTALL UP TO 4" SCHEDULE 80 HDPE CONDUIT (BORE)	250.00 L.F.
745604	FURNISH & INSTALL UP TO 4" SCHEDULE 80 PVC CONDUIT (TRENCH)	190.00 L.F.
745606	FURNISH & INSTALL UP TO 4" GALVANIZED STEEL CONDUIT (TRENCH)	90.00 L.F.
745607	FURNISH & INSTALL UP TO 4" GALVANIZED STEEL CONDUIT (BORE)	50.00 L.F.
745609	FURNISH & INSTALL UP TO 4" GALVANIZED STEEL CONDUIT (ON STRUCTURE)	30.00 L.F.
746555	SHEETING FOR POLE BASE	1.00 EACH
746847	POLE BASE, TYPE 3	1.00 EACH
746924	FURNISH & INSTALL LOOP WIRE 1-CONDUCTOR #14 AWG ENCASED IN 1/4" FLEXIBLE TUBING IN A LOOP SAWCUT	360.00 L.F.
747516	CABINET BASE, TYPE P	1.00 EACH
748015	PERMANENT PAVEMENT STRIPING, SYMBOL/LEGEND ALKYD-THERMOPLAST IC	1,120.00 S.F.
748019	TEMPORARY MARKINGS, PAINT, 4"	298,750.00 L.F.
748026	TEMPORARY MARKINGS, PAINT SYMBOL/LEGEND	1,970.00 S.F.
748502	RAISED/RECESSED PAVEMENT MARKER	357.00 EACH
748548	PERMANENT PAVEMENT STRIPING, EPOXY RESIN PAINT, WHITE/YELLOW, 5"	164,850.00 L.F.
749687	INSTALLATION OR REMOVAL OF TRAFFIC SIGN(S) ON SINGLE SIGN POST	27.00 EACH
749690	INSTALLATION OR REMOVAL OF TRAFFIC SIGNS ON MULTIPLE SIGN POSTS	66.00 S.F.
758000	REMOVAL OF EXISTING PORTLAND CEMENT CONCRETE PAVEMENT, CURB, SIDEWALK, ETC.	267.00 S.Y.
760507	PROFILE MILLING, BITUMINOUS CONCRETE	28,415.00 SY-IN
761001	BUTT JOINTS, HOT MIX	6,286.00 S.Y.
762001	SAW CUTTING, BITUMINOUS CONCRETE	8,275.00 L.F.
762002	SAW CUTTING, CONCRETE, FULL DEPTH	332.00 L.F.
763000	INITIAL EXPENSE	LUMP SUM
763643	MAINTENANCE OF TRAFFIC, ALL INCLUSIVE	LUMP SUM
908001	TOPSOIL (TON)	1,649.00 TON
908014	PERMANENT GRASS SEEDING, DRY GROUND	19,151.00 S.Y.

**PORTABLE CHANGEABLE MESSAGE SIGNS**

**PRIOR TO DETOUR**  
(10 DAYS PRIOR TO BEGINNING OF DETOUR)

PCMS-1

**MARSHALL STREET TO CLOSE**

**STARTING XX/XX/XX**

**DURING DETOUR**  
(DISPLAY FOR 5 DAYS AFTER IMPLEMENTATION OF DETOUR)

PCMS-1

**MARSHALL STREET CLOSED**

**FOLLOW DETOUR**

**SPECIAL SIGNS**

48"

72"

6" C  
Marshall St CLOSED SOUTH OF Elks Lodge Road  
6" C  
FOLLOW DETOUR  
6" C

(Y)

48"

66"

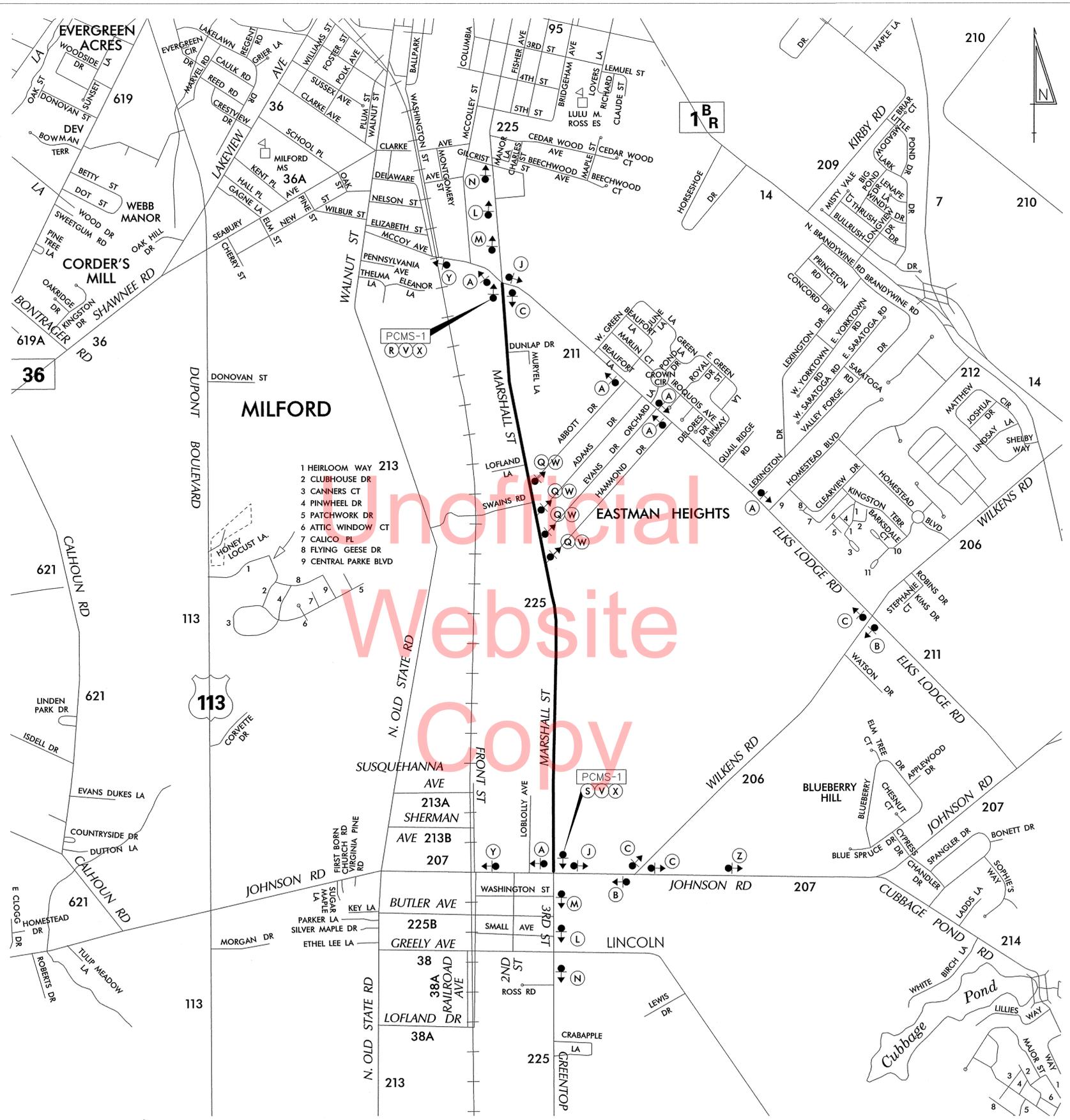
6" C  
Marshall St CLOSED NORTH OF Johnson Rd  
6" C  
FOLLOW DETOUR  
6" C

(Z)

**\*D/G RETROREFLECTIVE FLUORESCENT ORANGE BACKGROUND; BLACK LEGEND**

**SPECIAL NOTES**

1. CONTRACTOR SHALL CONTACT EASTMAN HEIGHTS HOME OWNER'S ASSOCIATION AND/OR RESIDENTS TO NOTIFY THEM OF THE CLOSURE AND TO USE ELKS LODGE RD FOR INGRESS AND EGRESS.



**LEGEND**

(A) DETOUR (up arrow)	(B) DETOUR (left arrow)	(C) DETOUR (right arrow)	(D) DETOUR (down arrow)	(E) DETOUR (diagonal up-right arrow)
(F) DETOUR (diagonal up-left arrow)	(G) DETOUR (diagonal down-left arrow)	(H) DETOUR (diagonal down-right arrow)	(I) DETOUR (diagonal up-left arrow)	(J) END DETOUR
(K) DETOUR AHEAD	(L) DETOUR 1000 FT	(M) DETOUR 500 FT		
(N) ROAD CLOSED AHEAD	(O) ROAD CLOSED 1000 FT	(P) ROAD CLOSED 500 FT		
(Q) ROAD CLOSED	(R) DETOUR (left arrow)	(S) DETOUR (right arrow)		
(T) ROAD CLOSED XX MILES AHEAD LOCAL TRAFFIC ONLY	(U) BRIDGE OUT XX MILES AHEAD LOCAL TRAFFIC ONLY	(V) ROAD CLOSED TO THRU TRAFFIC		
(W) BARRICADE		(X) BARRICADE		

**GENERAL NOTES**

- ALL DETOUR SIGNING, INCLUDING TRAILBLAZERS, ARE TO BE SUPPLIED AND MAINTAINED BY THE GENERAL CONTRACTOR IN COMPLIANCE WITH "THE DELAWARE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES" (DE MUTCD.)
- THE CONTRACTOR SHALL COMPLY WITH GUIDELINES IN "THE DELAWARE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES" (DE MUTCD PART 6) FOR BARRICADES AND SIGNS (AS PER LATEST REVISION).
- DESIGN OF ALL SIGNS SHALL BE IN ACCORDANCE WITH THE FHWA STANDARD HIGHWAY SIGNS BOOK.
- SIZES OF ALL SIGNS SHALL BE IN ACCORDANCE WITH "THE DELAWARE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES" (DE MUTCD.) SIZE OF SIGN SHALL BE BASED ON TYPE OF ROADWAY ON WHICH THE SIGN IS INSTALLED.
- SIGNS NO LONGER IN USE SHALL BE COMPLETELY COVERED WITH NO RETROREFLECTIVE MATERIAL SHOWING, OR SHALL BE REMOVED, AS DIRECTED BY THE ENGINEER.
- FIELD CONDITIONS MAY DICTATE CHANGES AT SOME TIME DURING THE LIFE OF THE CONTRACT. IN THE EVENT OF OMISSIONS OR CORRECTIONS, THE SIGNING PROVISIONS OF "THE DELAWARE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES" (DE MUTCD) WILL PREVAIL.
- SIGNS "N" THROUGH "Q" AND "T" AND "V", THE WORD "ROAD" SHOULD BE CHANGED TO "RAMP", "RR XING", OR "BRIDGE" WHERE APPLICABLE.
- WARNING SIGNS AND DETOUR TRAILBLAZERS SHALL BE MOUNTED ON BREAKAWAY POSTS AND HAVE RETROREFLECTIVE FLUORESCENT ORANGE SHEETING.
- "W" BARRICADES SHALL COMPLETELY RUN THE FULL WIDTH OF THE ROADWAY.
- BARRICADES SHALL BE A MINIMUM OF 6 FEET WIDE UNLESS DIRECTED BY THE ENGINEER.

RECOMMENDED *M. S. D.* DATE: 3/30/2015      RECOMMENDED *Hub B* DATE: 4/1/15      RECOMMENDED *John D. Huggins* DATE: 4/1/15      APPROVED CHIEF SAFETY OFFICER \_\_\_\_\_ DATE: \_\_\_\_\_      APPROVED TRAFFIC ENGINEER *John D. Huggins* DATE: 4/1/15

W:\MS\8\CELLS\PROJ\DEV\SB.CEL