

STATE OF DELAWARE



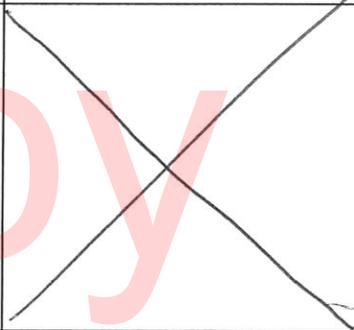
DEPARTMENT OF TRANSPORTATION
MAINTENANCE SUPPORT – SOUTH DISTRICT
PLANS AND SPECIFICATIONS FOR:

CONTRACT NO: T201680210 P6: 16-00772

CONTRACT TITLE: DRAINAGE IMPROVEMENTS, OPEN END,
SOUTH, 2016

PLANS PREPARED BY: MARK HYLBERT (DESIGN TECHNICIAN)

PLANS REVIEWED BY: P. Clay Salter DATE: 4/27/16
MAINT.SUPPORT SUPERVISOR

DATE RECOMMENDED: <u>04.27.16</u> ASSISTANT MAINT. ENGINEER: <u>J. McCluskey</u>	
DATE RECOMMENDED: _____ MAINTENANCE ENGINEER: <u>N/A</u>	
DATE RECOMMENDED: <u>4-27-16</u> SOUTH DISTRICT ENGINEER: <u>[Signature]</u>	

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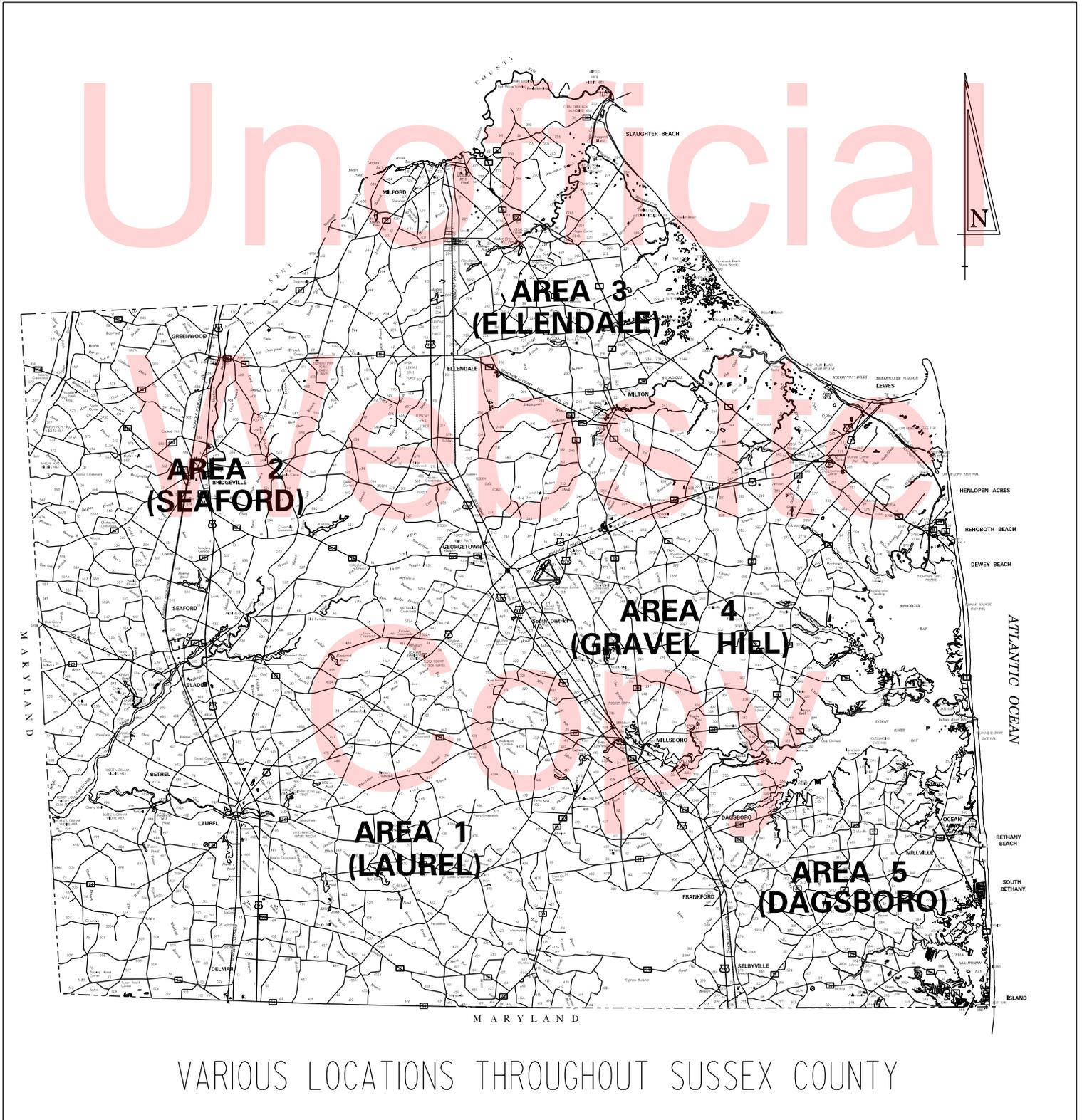
CONTRACT DESCRIPTION

THE PURPOSE OF THIS CONTRACT IS TO MAKE DRAINAGE IMPROVEMENTS, INCLUDING ENTRANCE PIPE INSTALLATIONS, CROSSROAD PIPE REPLACEMENTS, PIPING OF EXISTING DITCHES, ETC. AT VARIOUS LOCATIONS IN SUSSEX COUNTY.

THE SPECIFIC WORK SITES ARE NOT LISTED HEREIN, BUT WILL BE ASSIGNED AS AVAILABLE BY THE DISTRICT MAINTENANCE SUPPORT OFFICE.

1. THE DELDOT PROJECT MANAGER IS RESPONSIBLE FOR ENSURING ANY REQUIRED DOCUMENTS AND ANALYSIS AS PART OF THE ADOPTED WORK ZONE SAFETY AND MOBILITY PROCEDURES AND GUIDELINES HAS BEEN COMPLETED PRIOR TO ANY WORK STARTING ON THIS CONTRACT.
2. IT IS ANTICIPATED THAT ALL WORK WILL OCCUR WITHIN DELDOT'S RIGHT OF WAY. SHOULD THE NEED OCCUR TO TRESPASS ONTO RAILROAD PROPERTY, INCLUDING THE HIGHWAY-RAIL CROSSING; IT WILL BE THE RESPONSIBILITY OF THE DELDOT PROJECT MANAGER TO CONTACT THE RAILROAD CHIEF ENGINEER AND OBTAIN WRITTEN AUTHORIZATION PRIOR TO SUCH WORK.
3. IT IS ANTICIPATED THAT ALL WORK WILL OCCUR WITHIN DELDOT'S EXISTING RIGHT OF WAY OR EASEMENT AREAS. SHOULD THE NEED OCCUR TO TRESPASS ONTO PRIVATE PROPERTY; IT WILL BE THE RESPONSIBILITY OF THE DELDOT PROJECT MANAGER TO SECURE SUCH TRESPASS NEEDS PRIOR TO SUCH WORK.
4. NO ENVIRONMENTAL PERMITS ARE REQUIRED FOR THIS WORK PROVIDED NO JURISDICTIONAL WETLANDS OR WATERS ARE IMPACTED. IF THERE IS ANY QUESTION AS TO WHETHER OR NOT A WATER OR WETLAND IS JURISDICTIONAL, THE CONTRACTOR SHALL CONTACT THE DELDOT PROJECT MANAGER PRIOR TO SUCH WORK.
5. NO UTILITY RELOCATION IS ANTICIPATED. SHOULD ANY CONFLICTS BE ENCOUNTERED DURING CONSTRUCTION REQUIRING ADJUSTMENT AND/OR RELOCATION OF THE AGENCIES' EXISTING FACILITIES, THE NECESSARY RELOCATION WORK SHALL BE ACCOMPLISHED BY THE RESPECTIVE AGENCIES' FORCES, AS DIRECTED BY THE DISTRICT ENGINEER. ANY ADJUSTMENTS AND/OR RELOCATIONS OF MUNICIPALLY OWNED FACILITIES SHALL BE DONE BY THE STATE'S CONTRACTOR IN ACCORDANCE WITH THE RESPECTIVE AGENCIES' STANDARD SPECIFICATIONS AS DIRECTED BY THE DISTRICT ENGINEER. PAYMENT SHALL BE MADE USING CONTRACT UNIT PRICING OR WHERE NO PRICING IS AVAILABLE, IT SHALL BE NEGOTIATED PRIOR TO COMMENCEMENT OF WORK.
6. THE DELDOT PROJECT MANAGER SHALL BE RESPONSIBLE FOR COORDINATING WITH THE TRAFFIC SECTION RELATING TO ANY IMPACTS TO TRAFFIC SECTION FACILITIES (INCLUDING BUT NOT LIMITED TO TRAFFIC LOOPS, JUNCTION WELLS ETC.) IN ADVANCE OF THE START OF THE ACTIVITY.
7. PRIOR TO INITIATING ANY WORK ON THIS CONTRACT (OR SITES), THE CONTRACTOR SHALL BE RESPONSIBLE FOR PREPARING AND SUBMITTING FOR APPROVAL OF THE SAFETY SECTION A MAINTENANCE OF TRAFFIC PLAN INCLUDING ANY DETOUR PLANS FOR ROAD CLOSURES REQUESTED BY THE DEPARTMENT OR THE CONTRACTOR. SUFFICIENT TIME SHALL BE PROVIDED FOR THE REVIEW AND APPROVAL OF THE PLAN. THE MAINTENANCE OF TRAFFIC PLAN SHALL INCLUDE PROPOSED TIME RESTRICTIONS ON THE CLOSURE OF TRAVEL LANES SUBJECT TO THE APPROVAL OF THE SAFETY SECTION. NO WORK SHALL START WITHOUT AN APPROVED MAINTENANCE OF TRAFFIC PLAN.

LOCATION MAP



VARIOUS LOCATIONS THROUGHOUT SUSSEX COUNTY

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GENERAL CONTRACT NOTES

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 STANDARD CONSTRUCTION DETAILS, THE DELAWARE MANUAL OF 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. IN LIEU OF SECTION 104.05 OF THE STANDARD SPECIFICATIONS AND DEPENDING ON FUND AVAILABILITY, THE DEPARTMENT RESERVES THE RIGHT TO ADD OR DELETE QUANTITIES TO THIS CONTRACT. SUCH 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. 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. DETAILS SHALL INCLUDE A DESCRIPTION OF EACH WORK ACTIVITY, THE PLANNED DAYS OF WORK, MULTIPLE CREWS OR SHIFTS, AND SCHEDULED WORKING HOURS. FAILURE TO COMPLY WILL RESULT IN A SUSPENSION OF ALL CONTRACT WORK WITH TIME CHARGES CONTINUING TO BE ASSESSED.
4. THIS CONTRACT SHALL EXPIRE ONE CALENDAR YEAR FROM THE DATE OF THE NOTICE TO PROCEED. THE DEPARTMENT RESERVES THE RIGHT TO REQUEST TO EXTEND THE CONTRACT FOR AN ADDITIONAL ONE (1) YEAR TERM AT THE ORIGINAL UNIT BID PRICES SPECIFIED. ANY EXTENSION MUST BE APPROVED BY BOTH PARTIES IN WRITING PRIOR TO EXPIRATION OF THE EXISTING CONTRACT. THE PERFORMANCE BOND SHALL BE SUBMITTED WITH THE CONTRACT EXECUTION AND SHALL BE SUBJECT TO ANY SUCH AGREED UPON RENEWAL FOR EXTENSION PERIODS. INITIAL EXPENSE SHALL ONLY BE PAID ONCE AND SHALL NOT BE PAID A SECOND TIME UPON AN EXTENSION OF THE CONTRACT. ANY ADDITIONAL EXPENSES RELATED TO THE EXTENSION OF THE CONTRACT MUST BE DOCUMENTED AND SHALL BE AGREED TO PRIOR TO CONTRACT EXTENSION.
5. THE WORK WILL BE SCHEDULED VIA WORK ORDERS FROM THE DISTRICT; WORK LOCATIONS WILL VARY IN SIZE. THE WORK ORDERS WILL INDICATE THE WORK TO BE PERFORMED AT EACH LOCATION.
6. THE CONTRACTOR SHALL COMMENCE WORK INDICATED ON THE WORK ORDER NO LATER THAN THE SEVENTH (7TH) WORKING DAY AFTER ISSUANCE UNLESS REQUIRED MATERIALS ARE NOT AVAILABLE. NON-AVAILABILITY OF MATERIALS SHALL BE VERIFIED BY AT LEAST THREE (3) DIFFERENT SOURCES. VERIFICATION SHALL BE FORMAL AND SUPPLIED BY THE CONTRACTOR IN WRITING. IF THERE IS A VERIFIED NON-AVAILABILITY OF MATERIALS, TIME CHARGES SHALL COMMENCE ON THE FIRST (1ST) WORKING DAY FOLLOWING THE DELIVERY DATE OF SAID MATERIALS.
7. ISSUANCE OF EACH WORK ORDER CONSTITUTES THE NOTICE TO PROCEED WITH THE WORK DESCRIBED ON THE WORK ORDER. FAILURE TO COMPLY WITH THE WORK ORDER COMPLETION DATE WILL RESULT IN CHARGED LIQUIDATED DAMAGES BASED ON EACH WORK ORDER AND SECTION 108 () OF THE STANDARD SPECIFICATIONS.
8. EACH WORK ORDER SHALL BE CONSIDERED A SEPARATE UNIT OF WORK. THE ENGINEER WILL MAKE PAYMENT MONTHLY FOR THE COMPLETED INVOICES AS OUTLINED IN SECTION 109.07. UPON THE SUBSTANTIAL COMPLETION OF THE WORK AT AN INDIVIDUAL LOCATION, THE ENGINEER WILL STOP TIME AT THAT LOCATION AND PERFORM A SEMI-FINAL INSPECTION FOR THE WORK ORDER LOCATION IN ACCORDANCE WITH SUBSECTION 105.20. IF THE WORK IS SATISFACTORILY COMPLETED, THE ENGINEER WILL RELEASE THE CONTRACTOR FROM MAINTENANCE RESPONSIBILITY FOR THAT LOCATION. THE ENGINEER RESERVES THE RIGHT TO REQUIRE THE CONTRACTOR TO ADD WORK OR

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GENERAL CONTRACT NOTES (cont.)

MAKE REPAIRS TO COMPLETED LOCATIONS AT THE DEPARTMENT'S EXPENSE UNTIL SUCH A LOCATION HAS BEEN ACCEPTED BY THE DEPARTMENT. THE CONTRACTOR MUST REPAIR ALL DEFECTS IN THE WORK CAUSED BY POOR WORKMANSHIP OR MATERIALS AT THEIR OWN EXPENSE UNTIL THE DEPARTMENT PERFORMS A FINAL INSPECTION AND ACCEPTS THE CONTRACT. A FINAL INSPECTION WILL BE COMPLETED ON AN ANNUAL BASIS FOR WORK ORDERS COMPLETED IN A CALENDAR YEAR. UPON SATISFACTORY COMPLETION OF THE FINAL PUNCH LIST, THE DEPARTMENT WILL ACCEPT THE LOCATION AND RELEASE THE CONTRACTOR FROM RESPONSIBILITY FOR THE WORK AT THAT LOCATION. IF A WORK ORDER IS SUFFICIENTLY LARGE AND COMPLEX AS DETERMINED BY THE ENGINEER, A FINAL INSPECTION MAY BE HELD UPON THE COMPLETION OF THAT WORK ORDER.

9. ALL WORK ADDED SHALL BE PERFORMED AT CONTRACT UNIT PRICES. IN THE CASE WHERE CONTRACT UNIT PRICES ARE NOT AVAILABLE THE PRICES ARE TO BE NEGOTIATED PRIOR TO THE COMMENCEMENT OF WORK.
10. ANY AND ALL CONSTRUCTION ENGINEERING SHALL BE INCIDENTAL TO THE CONTRACT.
11. THE CONTRACTOR IS REMINDED THAT SECTION 105.07 OF THE STANDARD SPECIFICATIONS REQUIRES THE GENERAL CONTRACTOR TO HAVE A COMPETENT SUPERINTENDENT OR FOREMAN ON THE PROJECT AT ALL TIMES.
12. THE CONTRACTOR SHALL NOTIFY THE DISTRICT AND THE APPROPRIATE DELDOT MAINTENANCE AREA SUPERVISOR 24 HOURS PRIOR TO STARTING ANY WORK.
13. THE DEPARTMENT AND THE CONTRACTOR SHALL INSPECT ALL EXISTING PIPES AND DRAINAGE STRUCTURES TO BE USED IN THE FINAL DRAINAGE SYSTEM AND AGREE ON THE CONDITION PRIOR TO THE START OF CONSTRUCTION. EXISTING PIPES AND DRAINAGE STRUCTURES DAMAGED DUE TO CONTRACTOR OPERATIONS SHALL BE REPAIRED OR REPLACED IN-KIND AT THE CONTRACTOR'S EXPENSE. THE DEPARTMENT WILL VIDEO INSPECT NEW PIPE RUNS TO CONFIRM CONDITION PRIOR TO ACCEPTANCE. PIPE CLEANING PRIOR TO VIDEO INSPECTION AND MAINTENANCE OF TRAFFIC DURING THE VIDEO INSPECTION ARE THE RESPONSIBILITY OF THE CONTRACTOR AND INCIDENTAL TO THE PIPE ITEM THAT IS BEING VIDEO INSPECTED.

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PROJECT AND CONSTRUCTION NOTES

14. ALL NEW CORRUGATED POLYETHYLENE PIPE (CPEP) SHALL BE COMPATIBLE WITH EXISTING CPEP AND SHALL BE CAPABLE OF PROVIDING A WATERTIGHT SEAL TO DELDOT'S EXISTING INVENTORY OF CPEP MANUFACTURED BY ADS. THE PIPE SHALL ALSO MEET THE SPECIFICATION ON PAGE 7 OF THESE PLANS.
15. ALL DEWATERING METHODS, UP TO AND INCLUDING THE USE OF A 4" PORTABLE PUMP OR EQUAL, INCLUDING MULTIPLE PUMPS, WITH THE ABILITY TO PUMP UP TO 700 GAL/MIN, SEDIMENT BAGS, SAND BAGS, TRENCH BOXES AND ANY OTHER ITEMS NECESSARY TO COMPLETE THE INTALLATION OF THE PIPE ARE INCIDENTAL TO THE CORRESPONDING PIPE ITEM.
16. REMOVAL AND DISPOSAL OF EXISTING PIPES THAT ARE TO BE REPLACED SHALL BE PAID UNDER ITEM # 208000, EXCAVATION AND BACKFILLING FOR PIPE TRENCHES. NO ADDITIONAL PAYMENT WILL BE MADE TO REMOVE OR DISPOSE OF EXISTING PIPES.
17. ITEM 714000 SHALL BE USED AS DIRECTED TO PAY FOR NEW DITCHING. THIS ITEM SHALL NOT BE USED TO PAY FOR ANY SWALING OVER NEWLY INSTALLED PIPE, AS SUCH WORK IS INCIDENTAL TO ITEM 208000 EXCAVATION AND BACKFILLING FOR PIPE TRENCHES.
18. ITEMS 208000 AND 210000, EXCAVATION AND BACKFILL SHALL BE CALCULATED AND PAID SEPARATELY AT EACH LOCATION; WITH THE EXCEPTION OF ITEM 614875 WHERE THESE ITEMS WILL BE INCIDENTAL.
19. DRAINAGE INLETS, WHICH ARE 4' OR GREATER IN DEPTH AND ARE SLATED FOR REPAIR WILL HAVE STEPS INSTALLED IN ACCORDANCE WITH SECTION 708() OF THE STANDARD SPECIFICATIONS. PAYMENT SHALL BE INCIDENTAL TO THE UNIT PRICE BID FOR ITEM 710001.
20. DRAINAGE INLET GRATES ADJACENT TO THE PROJECT AND WHICH ARE NOT THE 45 DEGREE TYPE SHALL BE REPLACED. AT LOCATIONS WHERE PATCHING IS DESIGNATED, THIS TYPE OF GRATE SHALL BE REPLACED ONLY WHEN THE CATCH BASIN IS TO BE ADJUSTED AND/OR REPAIRED. THE ACTUAL LOCATIONS, THE NEED FOR ANY GRATE MODIFICATIONS OR FOR NEW FRAMES SHALL BE DETERMINED BY THE ENGINEER. ALL REPLACED GRATES/FRAMES SHALL BE DELIVERED TO THE NEAREST DISTRICT MAINTENANCE YARD WITH THE COST OF DELIVERY INCLUDED IN OTHER APPROPRIATE BID ITEMS. THIS COST FOR THE WORK SHALL BE NEGOTIATED PRIOR TO THE REPLACEMENT OF ANY DRAINAGE INLET GRATES.
21. ALL PORTLAND CEMENT CONCRETE MUST BE RECEIVED FROM AN APPROVED PRODUCTION PLANT. NO ON-SITE MIXTURES WILL BE PERMITTED. THIS PERTAINS TO BOTH WORK OCCURRING DURING NORMAL WORKING HOURS AND NIGHTTIME RESTRICTED WORK.
22. THE MINIMUM AND MAXIMUM SINGLE LIFT THICKNESSES OF MATERIALS SHALL BE AS FOLLOWS:
 - TYPE C WARM MIX: 1.25" - 2.00"
 - TYPE B WARM MIX: 2.25" - 4.00"
 - BCBC: 3.00" - 6.00"
 - GABC: 2.00" - 8.00"
23. IN AREAS WHERE NO CURB IS PRESENT AND NEW DRAINAGE INLETS ARE BEING INSTALLED, TYPE A TOP UNITS SHALL BE UTILIZED PER STANDARD DETAILS D-5. THE CONTRACTOR, PRIOR TO LAYING A RUN OF DRAINAGE PIPE OR OTHER INVOLVED CONSTRUCTION, SHALL EXCAVATE WITHIN THE ALIGNMENT AT POINTS OF POSSIBLE CONFLICT TO DETERMINE IF A CONFLICT EXISTS. ANY CONFLICTS SHALL BE COORDINATED BY THE CONTRACTOR WITH THE ENGINEER. ANY UTILITY CONFLICTS SHALL BE COORDINATED BY THE CONTRACTOR WITH THE ENGINEER AND A REPRESENTATIVE OF UTILITY OWNER. EXCAVATING AND BACKFILLING OF THE TEST HOLES SHALL BE MEASURED AND PAID FOR IN ACCORDANCE WITH ITEM 208000, EXCAVATION AND BACKFILL FOR PIPE TRENCHES, BUT ONLY TO THE ACTUAL DEPTH EXCAVATED.

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ITEM NO. 614875: ENTRANCE PIPE INSTALLATION NOTES

- 24. THE NOTES LISTED BELOW APPLY ONLY TO THE ENTRANCE PIPE ITEM NO. 614875. ALL CROSSROAD PIPE LOCATIONS, DITCH ENCLOSURES OR ANY OTHER WORK GIVEN NOT RELATING TO A PERMIT NUMBER WILL BE PAID PER THE APPLICABLE STANDARD SPECIFICATIONS.
- 25. THE PURPOSE OF THIS ITEM IS TO INSTALL PRIVATE PROPERTY ENTRANCE PIPES AT VARIOUS LOCATIONS ALONG 2-LANE ROADS THROUGHOUT SUSSEX COUNTY. THERE WILL BE NO LOCATIONS ISSUED FOR DUAL HIGHWAYS.
- 26. ALL MAINTENANCE OF TRAFFIC SHALL BE INCIDENTAL TO ITEM NO. 614875. TYPICAL APPLICATION #10 (DE MUTCD) SHALL BE USED FOR MAINTENANCE OF TRAFFIC AT ENTRANCE PIPE LOCATIONS.
- 27. THE ESTIMATED MINIMUM LENGTH OF PIPE TO BE INSTALLED AT EACH INDIVIDUAL LOCATION SHALL BE 24'. IT IS THE DEPARTMENT'S INTENT TO ISSUE NO MORE THAN 3 LOCATIONS PER DAY.
- 28. IN THE EVENT THAT WARM MIX MUST BE PLACED OVER AN ENTRANCE PIPE, THE WARM MIX WILL BE PAID SEPARATELY UNDER ITEMS 401821 AND 401822. HOWEVER, ITEM 406001, HOT MIX PATCHING, WILL NOT BE PAID AS THIS WORK WILL BE INCIDENTAL TO ITEM 614875.
- 29. INSTALLATION OF ENTRANCE PIPE SHALL BE MEASURED AND PAID FOR BY THE NUMBER OF LINEAR FEET OF PIPE INSTALLED AND ACCEPTED BY DELDOT. ALL REQUIRED ITEMS TO COMPLETE THE PIPE INSTALLATION WITHIN DRIVEWAY ENTRANCES, SUCH AS BORROW, GABC, TOPSOIL, SEED AND MULCH, ETC. SHALL BE INCIDENTAL TO ITEM 614875.

MATERIAL SPECIFICATIONS FOR ITEMS 612520 – 612526, CPEP, TYPE S, 12" – 36"

CORRUGATED POLYETHYLENE PIPE SHALL CONFORM TO THE REQUIREMENTS OF AASHTO M294, LATEST EDITION, FOR PIPE CLASSIFIED AS TYPE S. PIPE AND FITTING MATERIAL SHALL BE HIGH-DENSITY POLYETHYLENE MEETING ASTM D3350.

INDIVIDUAL PIPE SECTIONS SHALL BE INSTALLED WITH INTEGRAL BELL AND SPIGOT CONNECTIONS THAT PROVIDE LEAK RESISTANT CONNECTIONS WATERTIGHT TO A MINIMUM PRESSURE OF 10.8 PSI WHEN TESTED IN ACCORDANCE WITH THE METHODS DESCRIBED IN ASTM D3212.

THE PIPE SHALL BE INSTALLED WITH GASKETS PRE-INSTALLED BY THE PIPE MANUFACTURER. GASKETS SHALL BE LOCATED AT THE SPIGOT END AND MEET THE REQUIREMENTS OF ASTM F477. THE MANUFACTURER SHALL PROVIDE CERTIFICATION THAT THE GASKET MATERIAL SHOWED NO VISIBLE CRACKING WHEN TESTED ACCORDING TO ASTM D1149 AFTER 72-HOUR EXPOSURE IN 50 PPHM OZONE AT 104 DEGREES FAHRENHEIT. THE PIPE SHALL BE SUPPLIED WITH THE GASKETS COVERED WITH A REMOVABLE WRAP TO PROTECT THE GASKET MATERIAL FROM DAMAGE AND DEBRIS DURING INSTALLATION. A JOINT LUBRICANT SHALL BE USED TO INSTALL PIPE. CERTIFICATION FOR THE GASKETS SHALL BE PRODUCED BY THE PIPE MANUFACTURER.

IN ADDITION, THE JOINT SYSTEM SHALL PROVIDE SUFFICIENT LONGITUDINAL STRENGTH TO PRESERVE PIPE ALIGNMENT AND PREVENT SEPARATION AT THE JOINT. ALL FITTINGS SHALL ALSO MEET THE WATER TIGHT REQUIREMENTS OF ASTM D3212 CONSISTENT WITH THE PIPE INSTALLED UNDER THE TERMS OF THIS CONTRACT.

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MAINTENANCE OF TRAFFIC

30. ALL WORK SHALL BE PERFORMED IN A MANNER THAT WILL REASONABLY PROVIDE THE LEAST PRACTICAL OBSTRUCTION TO ALL ROAD USERS, INCLUDING VEHICULAR, PEDESTRIAN AND BICYCLE TRAFFIC AND SHALL CONFORM TO THE REQUIREMENTS OF THE LATEST DELAWARE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD) PART 6, HEREIN REFERRED TO AS THE TRAFFIC CONTROL MANUAL (INCLUDING REVISIONS IN EFFECT AT THE TIME OF ADVERTISEMENT FOR BIDS).
31. AT THE PRECONSTRUCTION MEETING, THE CONTRACTOR SHALL SUBMIT TO THE SOUTH DISTRICT SAFETY OFFICER THE NECESSARY NCHRP 350 / MASH CERTIFICATIONS FOR ALL TRAFFIC CONTROL DEVICES EXPECTED TO BE USED ON THE CONTRACT. IN ADDITION, PRIOR TO THE START OF ANY WORK ORDER, THE CONTRACTOR MUST SUBMIT A TRAFFIC CONTROL PLAN INCLUDING ANY ADDITIONAL NCHRP 350 / MASH CERTIFICATIONS NOT PREVIOUSLY SUBMITTED. WRITTEN APPROVAL MUST BE RECEIVED BEFORE THE START OF WORK AT EACH AND EVERY LOCATION.
32. ALL REQUIRED MAINTENANCE OF TRAFFIC WARNING SIGNS SHALL BE PAID FOR UNDER ITEM 743024, TEMPORARY WARNING SIGNS AND PLAQUES. ALL WARNING SIGNS SHALL BE DIAMOND GRADE RETRO-REFLECTIVE. WOOD SHEETING IS NOT PERMITTED.
33. NO SEPARATE PAYMENT SHALL BE MADE FOR THE USE OF TRAFFIC CONES. TRAFFIC CONES AND/OR WORK ASSOCIATED WITH THEIR USE SUCH AS SET UP, REMOVAL, CLEANING, ETC., SHALL BE INCIDENTAL TO THE WORK FOR WHICH THEY PROTECT.
34. ALL TRAFFIC CONTROL DEVICES SHALL MEET THE REQUIREMENTS OF THE LATEST EDITION OF THE TRAFFIC CONTROL MANUAL. PLEASE NOTE THAT AS OF JANUARY 4, 2010, THERE ARE NEW SHEETING REQUIREMENTS FOR ALL SIGNS, CHANNELIZING DEVICES, ETC.
35. ALL TRAFFIC CONTROL DEVICES SHALL BE IN NEW OR REFURBISHED CONDITION, SHALL COMPLY WITH THE TRAFFIC CONTROL MANUAL, SHALL BE NCHRP 350 / MASH APPROVED, AND SHALL BE APPROVED BY THE ENGINEER PRIOR TO INSTALLATION.
36. ALL TRAFFIC CONTROL DEVICES SHALL BE SUITABLY MAINTAINED AT ALL TIMES, INCLUDING SUCH MAINTENANCES AS WASHING SIGN FACES, REPLACING DEFICIENT BATTERIES AND LIGHTS, ALIGNING PROPERLY, REPLACING REFLECTIVE MATERIALS, RELOCATING BARRIERS, AND ANY OTHER MAINTENANCE OF TRAFFIC CONTROL DEVICES DEEMED NECESSARY BY THE ENGINEER OR DESIGNEE TO MAINTAIN TRAFFIC IN A SAFE AND EFFECTIVE MANNER.
37. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING HIS/HER WORK WITH OTHER CONTRACTORS IN THE AREA.
38. THE CONTRACTOR IS RESPONSIBLE FOR ENSURING THAT THE TRAFFIC MANAGEMENT CENTER (1-302-659-4600) IS NOTIFIED EACH AND EVERY DAY WHEN WORK IS BEING PERFORMED IN STATE RIGHT OF WAY. THE CONTRACTOR MUST IDENTIFY THE TYPE OF WORK, ANY LANE/S OR SHOULDERS CLOSED, LENGTH OF TIME FOR WORK, WHEN THE LANE RESTRICTION IS IN PLACE AND WHEN THE LANE RESTRICTION IS PICKED UP, CONTACT PERSON/NUMBER AND STATE INSPECTOR.
39. THE CONTRACTOR SHALL BE RESPONSIBLE FOR NOTIFYING THE LOCAL 911 CENTER, LOCAL SCHOOLS, AND THE DELDOT PUBLIC INFORMATION CENTER OF ALL ROADS AND LANES TO BE CLOSED A MINIMUM OF SEVEN CALENDAR DAYS BEFORE THE CLOSURE. IF TEMPORARILY BLOCKING ACCESS TO A FIRE HYDRANT, NOTIFICATION MUST BE GIVEN TO SUSSEX COUNTY, THE LOCAL FIRE FIGHTING AUTHORITIES, AND THE 911 CENTER.
40. ACCESS TO ALL BUSINESSES AND RESIDENCES SHALL BE MAINTAINED AT ALL TIMES. ANY CLOSURE OF ENTRANCE/RESIDENCIES SHALL BE COORDINATED WITH THE LAND OWNER PRIOR TO ANY CLOSURES.

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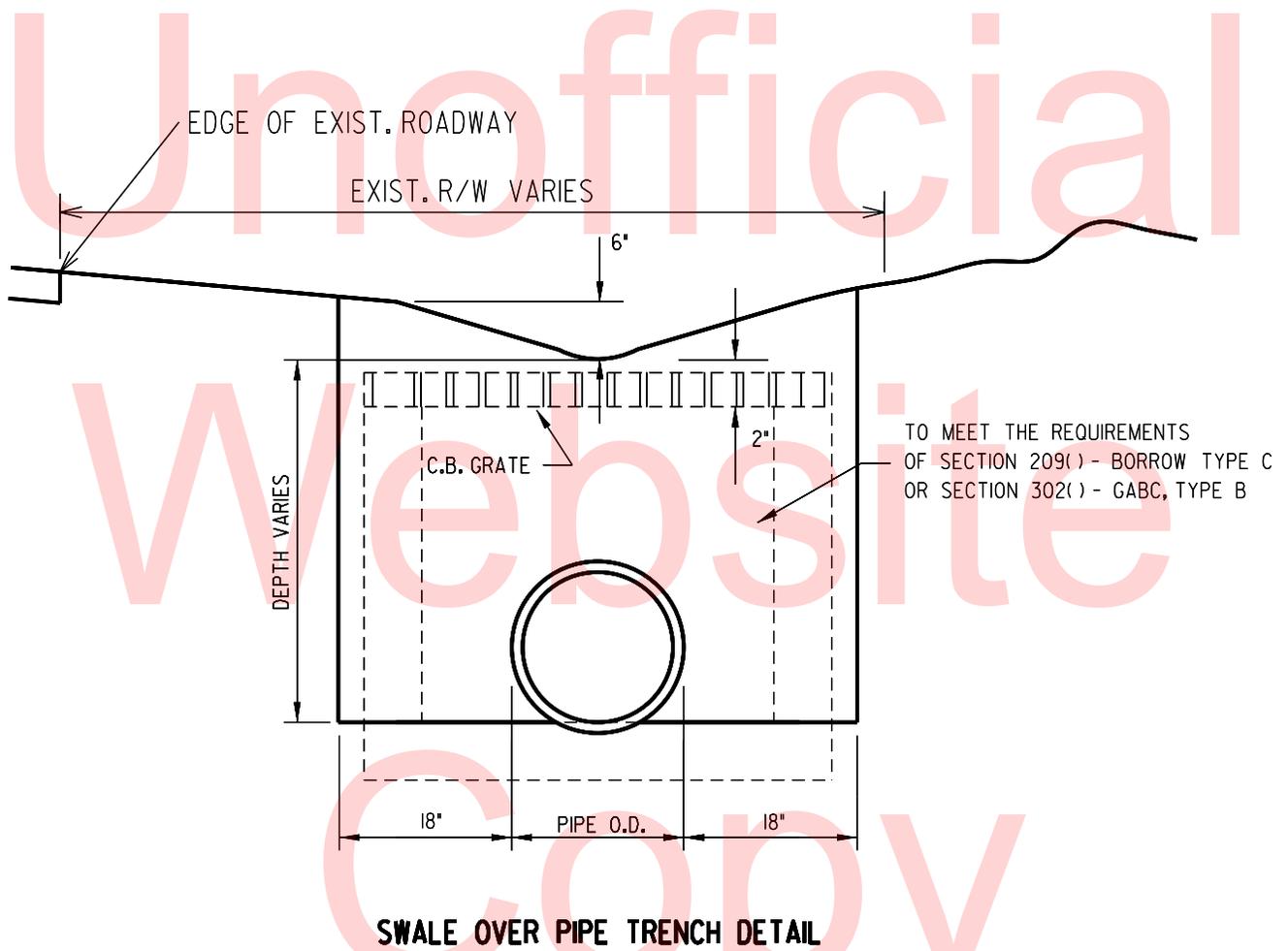
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MAINTENANCE OF TRAFFIC AND PAVEMENT MARKINGS (cont.)

41. ALL PERSONS WORKING WITHIN THE STATE RIGHT-OF-WAY SHALL WEAR A MINIMUM OF AN ANSI CLASS II SAFETY VEST MEETING THE ANSI 107-2004 REQUIREMENTS.
42. THE CONTRACTOR SHALL GIVE TWO (2) WEEKS NOTICE TO THE PROPERTY OWNER WHEN ANY FIXTURE, SHRUB OR OTHER OBJECT MUST BE REMOVED FROM THE RIGHT OF WAY OR EASEMENT AREA. IF THE OWNER HAS NOT ATTEMPTED TO SALVAGE THIS PROPERTY, THE CONTRACTOR SHALL REMOVE IT WITHOUT OBLIGATION. COMPENSATION SHALL BE INCIDENTAL TO THE CONTRACT.
43. 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.
44. WHEN SIDE ROADS INTERSECT THE WORK ZONE, ADDITIONAL TRAFFIC CONTROL DEVICES SHALL BE ERECTED INCLUDING PERMANENT WARNING SIGNS AND SHALL BE PAID PER CONTRACT UNIT PRICES.
45. ALL ROADWAY EXCAVATION IN OR ADJACENT TO TRAVEL WAYS SHALL BE PROPERLY BACKFILLED AT THE END OF EACH DAY PRIOR TO TRAFFIC RETURNING TO UNRESTRICTED TRAVEL PER SECTION 6G.20 OF THE TRAFFIC CONTROL MANUAL. THIS INCLUDES ALL UTILITIES AND/OR OBSTACLES WITHIN OR ADJACENT TO THE TRAVEL WAYS AS OUTLINED IN THE TRAFFIC CONTROL MANUAL.
46. ALL STORAGE OF EQUIPMENT AND MATERIAL SHALL COMPLY WITH SECTION 6G.21 OF THE TRAFFIC CONTROL MANUAL.
47. ALL FLAGGERS SHALL COMPLY WITH CHAPTER 6E OF THE TRAFFIC CONTROL MANUAL.
48. 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.
49. PRIOR TO THE START OF WORK, THE CONTRACTOR SHALL BE REQUIRED TO SHOW PROOF THAT HE HAS SUFFICIENT APPROVED STRIPING MATERIALS ON HAND TO ENSURE STRIPING IS COMPLETED PRIOR TO FULLY OPENING ROADWAY TO TRAFFIC.
50. PRIOR TO INITIATING ANY WORK ON THE CONTRACT (OR SITES), THE CONTRACTOR SHALL BE RESPONSIBLE FOR PREPARING AND SUBMITTING FOR APPROVAL OF THE SAFETY SECTION, MAINTENANCE OF TRAFFIC PLAN. SUFFICIENT TIME SHALL BE PROVIDED FOR THE REVIEW AND APPROVAL OF THE PLANS. THE MAINTENANCE OF TRAFFIC PLAN SHALL INCLUDE PROPOSED TIME RESTRICTIONS ON THE CLOSURE OF TRAVEL LANES SUBJECT TO THE APPROVAL OF THE SAFETY SECTION.
51. WHEN DETOURS ARE UTILIZED, MOT SHALL BE PAID USING CONTRACT UNIT PRICES. CONSIDERATION FOR ADDITIONAL PAY WILL ONLY BE MADE WHEN CUSTOM SIGNS ARE REQUIRED.

DITCH ENCLOSURE - DETAIL



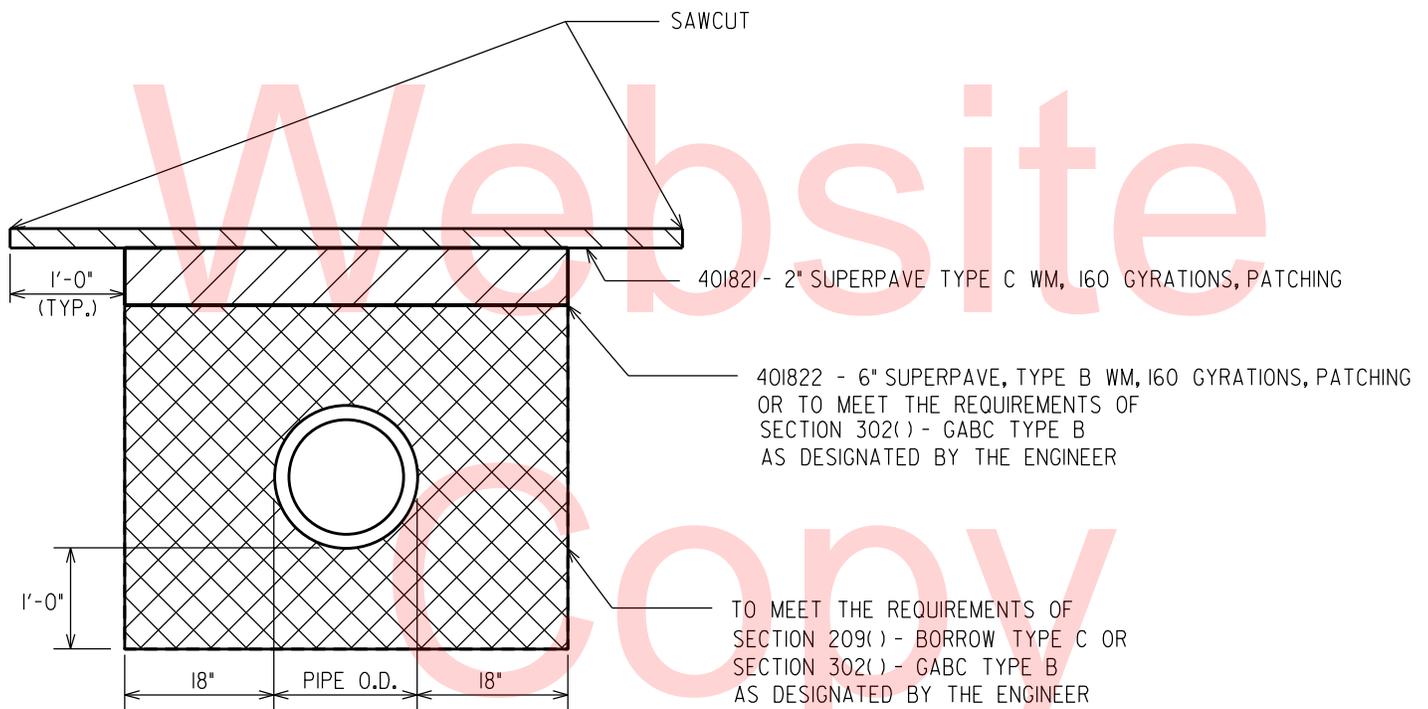
NOTES

- 1) A SWALE SHALL BE BUILT OVER NEW DRAINAGE TO INSURE POSITIVE FLOW TO CATCH BASIN(S).
- 2) EXCAVATION AND BACKFILL SHALL BE CALCULATED AND PAID SEPARATELY FOR DITCH ENCLOSURES.
- 3) DRAINAGE INLETS SHALL BE PAID FOR SEPARATELY
- 4) PLACE 4" TOPSOIL, SEED, & MULCH AT ALL DISTURBED AREAS

CROSSROAD PIPE REPLACEMENT - DETAIL

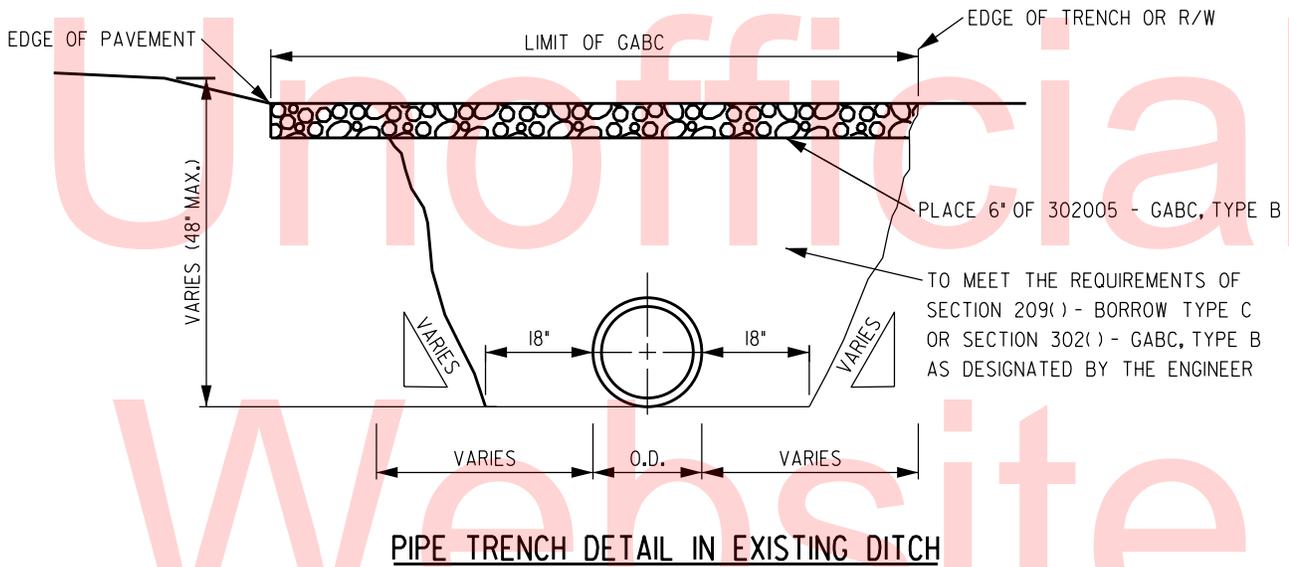
NOTES:

1. ALL EDGES TO BE SAWCUT.
2. THIS DETAIL SHALL BE USED FOR ALL WARM MIX PATCHES UNLESS OTHERWISE NOTED ON THE PLANS.
3. DEPTH OF WARM MIX PATCHING, 8" OR AS DIRECTED BY THE ENGINEER.

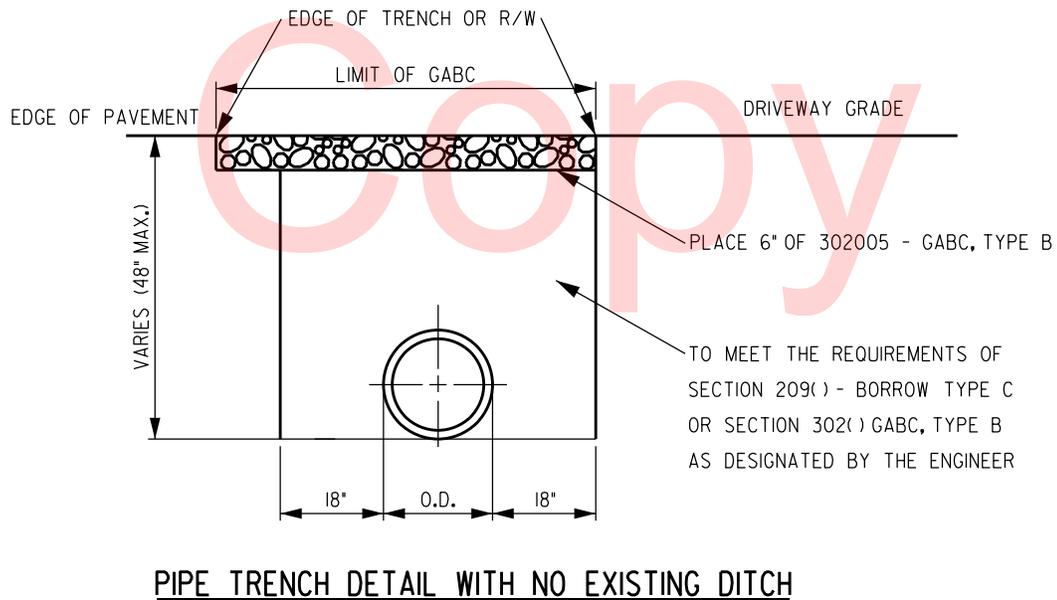


CROSSROAD PIPE REPLACEMENT DETAIL

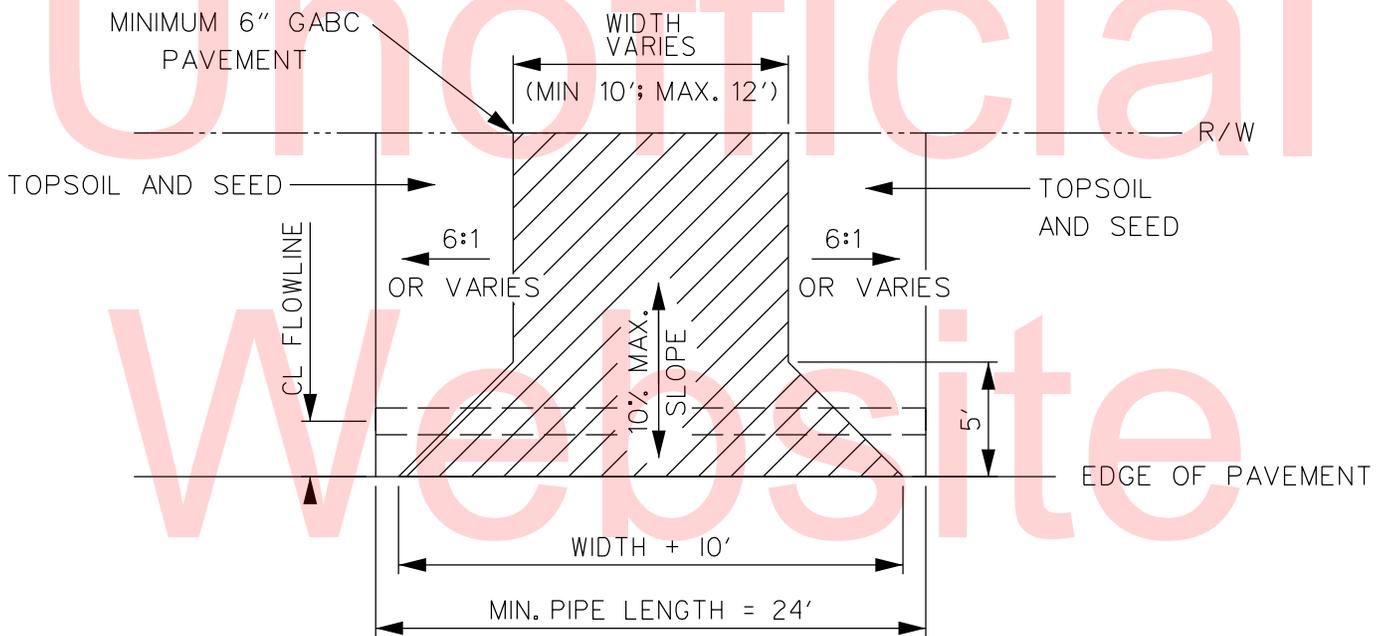
ITEM 614875, INSTALLATION OF ENTRANCE PIPES (DETAIL SHEET 1 OF 2)



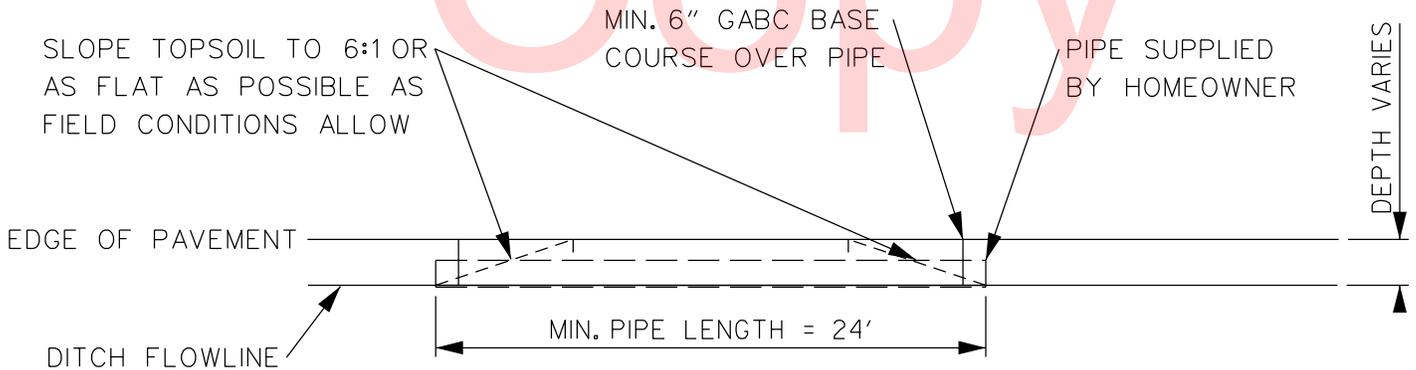
NOTE: ALL ITEMS, EXCEPT DRAINAGE INLETS, SHALL BE INCIDENTAL TO ITEM 614875 - INSTALLATION OF ENTRANCE PIPE. DRAINAGE INLETS SHALL BE PAID SEPERATELY



ITEM 614875, INSTALLATION OF ENTRANCE PIPES (DETAIL SHEET 2 OF 2)



ENTRANCE PIPE DETAIL - PLAN VIEW



ENTRANCE PIPE DETAIL - SECTION VIEW

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DRAINAGE IMPROVEMENTS, OPEN END, SOUTH, 2016

LOCATION 1 (VARIOUS LOCATIONS THROUGHOUT SUSSEX COUNTY) FROM TO

LENGTH

GENERAL IMPROVEMENTS

OPEN END DRAINAGE CONTRACT

COMMENTS:

MATERIAL ESTIMATE FOR LOCATION 1

208000	EXCAVATION AND BACKFILLING FOR PIPE TRENCHES	1,000.00 C.Y.
210000	FURNISHING BORROW TYPE "C" FOR PIPE, UTILITY TRENCH, AND STRUCTURE BACKFILL	200.00 C.Y.
302005	GRADED AGGREGATE BASE COURSE, TYPE B	200.00 TON
302012	DELAWARE NO. 57 STONE	50.00 TON
401821	BITUMINOUS CONCRETE, SUPERPAVE, TYPE C, 160 GYRATIONS, PG 64-22, PATCHING	200.00 TON
401822	BITUMINOUS CONCRETE, SUPERPAVE, TYPE B, 160 GYRATIONS, PG 64-22, PATCHING	150.00 TON
406001	BITUMINOUS CONCRETE PATCHING	500.00 SY-IN
612021	REINFORCED CONCRETE PIPE, 15", CLASS IV	128.00 L.F.
612022	REINFORCED CONCRETE PIPE, 18", CLASS IV	128.00 L.F.
612023	REINFORCED CONCRETE PIPE, 24", CLASS IV	128.00 L.F.
612025	REINFORCED CONCRETE PIPE, 30", CLASS IV	96.00 L.F.
612028	REINFORCED CONCRETE PIPE, 48", CLASS IV	120.00 L.F.
612029	REINFORCED CONCRETE PIPE, 54", CLASS IV	120.00 L.F.
612034	REINFORCED CONCRETE PIPE, 36", CLASS IV	96.00 L.F.
612038	REINFORCED CONCRETE PIPE, 60", CLASS IV	120.00 L.F.
612052	REINFORCED CONCRETE PIPE, 72", CLASS V	72.00 L.F.
612520	CORRUGATED POLYETHYLENE PIPE, TYPE S, 15"	140.00 L.F.
612522	CORRUGATED POLYETHYLENE PIPE, TYPE S, 12"	140.00 L.F.
612523	CORRUGATED POLYETHYLENE PIPE, TYPE S, 18"	140.00 L.F.
612524	CORRUGATED POLYETHYLENE PIPE, TYPE S, 24"	140.00 L.F.
612525	CORRUGATED POLYETHYLENE PIPE, TYPE S, 30"	120.00 L.F.
612526	CORRUGATED POLYETHYLENE PIPE, TYPE S, 36"	120.00 L.F.
614001	GALVANIZED CORRUGATED STEEL PIPE, 12", 16 GAGE, 2 2/3" X 1/2" CORRUGATION	100.00 L.F.
614002	GALVANIZED CORRUGATED STEEL PIPE, 15", 16 GAGE, 2 2/3" X 1/2" CORRUGATION	100.00 L.F.
614875	INSTALLATION OF ENTRANCE PIPE	800.00 L.F.
617001	REINFORCED CONCRETE FLARED END SECTION, 12"	3.00 EACH
617002	REINFORCED CONCRETE FLARED END SECTION, 15"	3.00 EACH
617009	REINFORCED CONCRETE FLARED END SECTION, 36"	2.00 EACH

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DRAINAGE IMPROVEMENTS, OPEN END, SOUTH, 2016

LOCATION 1 (VARIOUS LOCATIONS THROUGHOUT SUSSEX COUNTY) FROM TO

LENGTH

GENERAL IMPROVEMENTS

OPEN END DRAINAGE CONTRACT

COMMENTS:

MATERIAL ESTIMATE FOR LOCATION 1

617509	CORRUGATED POLYETHYLENE FLARED END SECTION, 12"	3.00 EACH
617510	CORRUGATED POLYETHYLENE FLARED END SECTION, 15"	3.00 EACH
617513	CORRUGATED POLYETHYLENE FLARED END SECTION, 30"	2.00 EACH
701020	INTEGRAL PORTLAND CEMENT CONCRETE CURB & GUTTER, TYPE 1-8	100.00 L.F.
708045	LAWN INLET	3.00 EACH
708050	DRAINAGE INLET, 34" X 18"	6.00 EACH
708051	DRAINAGE INLET, 34" X 24"	6.00 EACH
708052	DRAINAGE INLET, 48" X 30"	3.00 EACH
708107	MANHOLE, ROUND	2.00 EACH
710001	ADJUSTING AND REPAIRING EXISTING DRAINAGE INLET	6.00 EACH
710002	ADJUSTING AND REPAIRING EXISTING MANHOLE	2.00 EACH
712020	RIPRAP, R-4	50.00 TON
713002	GEOTEXTILES, SEPARATION	200.00 S.Y.
713003	GEOTEXTILES, RIPRAP	200.00 S.Y.
714000	LATERAL OR LONGITUDINAL DITCHING	250.00 L.F.
743004	FURNISH AND MAINTAIN PORTABLE CHANGEABLE MESSAGE SIGN	40.00 EA-DY
743010	FURNISH AND MAINTAIN TRUCK MOUNTED ATTENUATOR, TYPE II	30.00 EA-DY
743023	TEMPORARY BARRICADES, TYPE III	400.00 LFDY
743024	TEMPORARY WARNING SIGNS AND PLAQUES	350.00 EA-DY
743052	FLAGGER, SUSSEX COUNTY, STATE	500.00 HOUR
743064	FLAGGER, SUSSEX COUNTY, STATE, OVERTIME	50.00 HOUR
748525	TEMPORARY MARKINGS, TAPE, 4"	500.00 L.F.
748548	PERMANENT PAVEMENT STRIPING, EPOXY RESIN PAINT, WHITE/YELLOW, 5"	500.00 L.F.
758000	REMOVAL OF EXISTING PORTLAND CEMENT CONCRETE PAVEMENT, CURB, SIDEWALK, ETC.	40.00 S.Y.
760000	PAVEMENT - MILLING, HOT-MIX	2,000.00 SY-IN
762001	SAW CUTTING, BITUMINOUS CONCRETE	1,000.00 L.F.
762002	SAW CUTTING, CONCRETE, FULL DEPTH	100.00 L.F.
908001	TOPSOIL (TON)	60.00 TON

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DRAINAGE IMPROVEMENTS, OPEN END, SOUTH, 2016

LOCATION 1 (VARIOUS LOCATIONS THROUGHOUT SUSSEX COUNTY) FROM TO

LENGTH

GENERAL IMPROVEMENTS

OPEN END DRAINAGE CONTRACT

COMMENTS:

MATERIAL ESTIMATE FOR LOCATION 1

908014	PERMANENT GRASS SEEDING, DRY GROUND	750.00 S.Y.
908020	EROSION CONTROL BLANKET MULCH	250.00 S.Y.

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SOUTH DRAINAGE IMPROVEMENTS, OPEN END, SOUTH, 2016
MAINTENANCE

CONTRACT QUANTITIES SUMMARY SHEET

208000	EXCAVATION AND BACKFILLING FOR PIPE TRENCHES	1,000.00 C.Y.
210000	FURNISHING BORROW TYPE "C" FOR PIPE, UTILITY TRENCH, AND STRUCTURE BACKFILL	200.00 C.Y.
302005	GRADED AGGREGATE BASE COURSE, TYPE B	200.00 TON
302012	DELAWARE NO. 57 STONE	50.00 TON
401821	BITUMINOUS CONCRETE, SUPERPAVE, TYPE C, 160 GYRATIONS, PG 64-22, PATCHING	200.00 TON
401822	BITUMINOUS CONCRETE, SUPERPAVE, TYPE B, 160 GYRATIONS, PG 64-22, PATCHING	150.00 TON
406001	BITUMINOUS CONCRETE PATCHING	500.00 SY-IN
612021	REINFORCED CONCRETE PIPE, 15", CLASS IV	128.00 L.F.
612022	REINFORCED CONCRETE PIPE, 18", CLASS IV	128.00 L.F.
612023	REINFORCED CONCRETE PIPE, 24", CLASS IV	128.00 L.F.
612025	REINFORCED CONCRETE PIPE, 30", CLASS IV	96.00 L.F.
612028	REINFORCED CONCRETE PIPE, 48", CLASS IV	120.00 L.F.
612029	REINFORCED CONCRETE PIPE, 54", CLASS IV	120.00 L.F.
612034	REINFORCED CONCRETE PIPE, 36", CLASS IV	96.00 L.F.
612038	REINFORCED CONCRETE PIPE, 60", CLASS IV	120.00 L.F.
612052	REINFORCED CONCRETE PIPE, 72", CLASS V	72.00 L.F.
612520	CORRUGATED POLYETHYLENE PIPE, TYPE S, 15"	140.00 L.F.
612522	CORRUGATED POLYETHYLENE PIPE, TYPE S, 12"	140.00 L.F.
612523	CORRUGATED POLYETHYLENE PIPE, TYPE S, 18"	140.00 L.F.
612524	CORRUGATED POLYETHYLENE PIPE, TYPE S, 24"	140.00 L.F.
612525	CORRUGATED POLYETHYLENE PIPE, TYPE S, 30"	120.00 L.F.
612526	CORRUGATED POLYETHYLENE PIPE, TYPE S, 36"	120.00 L.F.
614001	GALVANIZED CORRUGATED STEEL PIPE, 12", 16 GAGE, 2 2/3" X 1/2" CORRUGATION	100.00 L.F.
614002	GALVANIZED CORRUGATED STEEL PIPE, 15", 16 GAGE, 2 2/3" X 1/2" CORRUGATION	100.00 L.F.
614875	INSTALLATION OF ENTRANCE PIPE	800.00 L.F.
617001	REINFORCED CONCRETE FLARED END SECTION, 12"	3.00 EACH
617002	REINFORCED CONCRETE FLARED END SECTION, 15"	3.00 EACH
617009	REINFORCED CONCRETE FLARED END SECTION, 36"	2.00 EACH
617509	CORRUGATED POLYETHYLENE FLARED END SECTION, 12"	3.00 EACH

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SOUTH DRAINAGE IMPROVEMENTS, OPEN END, SOUTH, 2016
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CONTRACT QUANTITIES SUMMARY SHEET

617510	CORRUGATED POLYETHYLENE FLARED END SECTION, 15"	3.00 EACH
617513	CORRUGATED POLYETHYLENE FLARED END SECTION, 30"	2.00 EACH
701020	INTEGRAL PORTLAND CEMENT CONCRETE CURB & GUTTER, TYPE 1-8	100.00 L.F.
708045	LAWN INLET	3.00 EACH
708050	DRAINAGE INLET, 34" X 18"	6.00 EACH
708051	DRAINAGE INLET, 34" X 24"	6.00 EACH
708052	DRAINAGE INLET, 48" X 30"	3.00 EACH
708107	MANHOLE, ROUND	2.00 EACH
710001	ADJUSTING AND REPAIRING EXISTING DRAINAGE INLET	6.00 EACH
710002	ADJUSTING AND REPAIRING EXISTING MANHOLE	2.00 EACH
712020	RIPRAP, R-4	50.00 TON
713002	GEOTEXTILES, SEPARATION	200.00 S.Y.
713003	GEOTEXTILES, RIPRAP	200.00 S.Y.
714000	LATERAL OR LONGITUDINAL DITCHING	250.00 L.F.
743004	FURNISH AND MAINTAIN PORTABLE CHANGEABLE MESSAGE SIGN	40.00 EA-DY
743010	FURNISH AND MAINTAIN TRUCK MOUNTED ATTENUATOR, TYPE II	30.00 EA-DY
743023	TEMPORARY BARRICADES, TYPE III	400.00 LFDY
743024	TEMPORARY WARNING SIGNS AND PLAQUES	350.00 EA-DY
743052	FLAGGER, SUSSEX COUNTY, STATE	500.00 HOUR
743064	FLAGGER, SUSSEX COUNTY, STATE, OVERTIME	50.00 HOUR
748525	TEMPORARY MARKINGS, TAPE, 4"	500.00 L.F.
748548	PERMANENT PAVEMENT STRIPING, EPOXY RESIN PAINT, WHITE/YELLOW, 5"	500.00 L.F.
758000	REMOVAL OF EXISTING PORTLAND CEMENT CONCRETE PAVEMENT, CURB, SIDEWALK, ETC.	40.00 S.Y.
760000	PAVEMENT - MILLING, HOT-MIX	2,000.00 SY-IN
762001	SAW CUTTING, BITUMINOUS CONCRETE	1,000.00 L.F.
762002	SAW CUTTING, CONCRETE, FULL DEPTH	100.00 L.F.
763000	INITIAL EXPENSE	LUMP SUM
908001	TOPSOIL (TON)	60.00 TON
908014	PERMANENT GRASS SEEDING, DRY GROUND	750.00 S.Y.

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DRAINAGE IMPROVEMENTS, OPEN END, SOUTH, 2016

CONTRACT QUANTITIES SUMMARY SHEET

908020 EROSION CONTROL BLANKET MULCH

250.00 S.Y.

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