



STATE OF DELAWARE
DEPARTMENT OF TRANSPORTATION
PO BOX 778
DOVER, DELAWARE 19903

JACK MARKELL
GOVERNOR

JENNIFER COHAN
SECRETARY

VIA OVERNIGHT DELIVERY

(302) 760-2030
FAX (302) 739-2254

December 6, 2016

Contract No. T201011301.01
Federal Aid Project No. NH-2015(25)
US 301, Summit Bridge Road and Armstrong Corner Road Intersection Improvements
New Castle County

Ladies and Gentlemen:

Enclosed is Addendum No. 2 for the referenced contract consisting of the following:

1. The Bid Proposal Cover, revised, to be substituted for the same page in the Proposal.
2. One (1) page, Table of Contents, page xxiv, revised, to be substituted for the same page in the Proposal.
3. One (1) page, Special Provision 617511-Corrugated Polyethylene Flared End Section, 18", page 82A, has been added to the Proposal.
4. Seventeen (17) pages, Bid Proposal Forms, pages 2-18 revised:
 - Item Number 211000 has been added
 - Item Number 617511 has been added
 - Item Number 617003, quantity has been revised
 - Item Number 211004 has been deleted
 - Item Number 727015 has been deleted
5. Two (2) pages, Plan Sheets 4 and 51 revised, to be substituted for the same pages in the Proposal.
6. Expedite File Disc, Addendum No. 2.

Please note the revisions listed above and submit your bid based upon this information.

Sincerely,

~signature on file~

Robert A. Kovacs

Competitively Bid Contracts Coordinator

STATE OF DELAWARE



DEPARTMENT OF TRANSPORTATION

BID PROPOSAL

for

CONTRACT T201011301.01

FEDERAL AID PROJECT NO. NH-2015(25)

US 301, SUMMIT BRIDGE ROAD AND ARMSTRONG CORNER
ROAD INTERSECTION IMPROVEMENTS

NEW CASTLE COUNTY

ADVERTISEMENT DATE: November 7, 2016

COMPLETION TIME: 560 Calendar Days

SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION
DELAWARE DEPARTMENT OF TRANSPORTATION
AUGUST 2001

Bids will be received in the Bidder's Room at the Delaware Department of Transportation's Administration Building, 800 Bay Road, Dover, Delaware until 2:00 P.M. local time **December 13, 2016**

Contract No. T201011301.01

202515 - COMPACTING INSITU MATERIAL	<u>45</u>
202555 - SUBSOIL TILLAGE	<u>47</u>
202560 - CONTAMINATED MATERIAL	<u>48</u>
211521 - ABANDONMENT OF WELLS	<u>50</u>
302514 - MILLED HOT-MIX BASE COURSE	<u>51</u>
401699 - QUALITY CONTROL/QUALITY ASSURANCE OF BITUMINOUS CONCRETE	<u>54</u>
401752 - SAFETY EDGE FOR ROADWAY PAVEMENT	<u>68</u>
401816 - BITUMINOUS CONCRETE, SUPERPAVE, TYPE B, 160 GYRATIONS, PG 76-22	<u>69</u>
401819 - BITUMINOUS CONCRETE, SUPERPAVE, BITUMINOUS CONCRETE BASE COURSE, 160 GYRATIONS, PG 64-22	<u>69</u>
401833 -BITUMINOUS CONCRETE, SUPERPAVE, TYPE C, 160 GYRATIONS, PG 76-22, (NON-CARBONATE STONE)	<u>69</u>
406501 - BITUMINOUS CONCRETE PATCHING, PARTIAL DEPTH	<u>81</u>
614588 - DUCTILE IRON PIPE, 18"	<u>82</u>
617511 - CORRUGATED POLYETHYLENE FLARED END SECTION, 18".....	82A
617517 - HEADWALL, SPECIAL TYPE I	<u>83</u>
708512 - DRAINAGE INLET, SPECIAL I	<u>84</u>
708585 - JUNCTION BOX, 48" X 30"	<u>85</u>
617518 - DRAINAGE HEADWALLS, MODIFIED	<u>86</u>
712531 - CHANNEL BED FILL	<u>88</u>
715500 - UNDERDRAIN OUTLET PIPE, 6"	<u>89</u>
715508 - TEMPORARY DRAINAGE PIPE, 18"	<u>90</u>
720529 - P.C.C. SAFETY BARRIER PERMANENT, SINGLE FACE	<u>92</u>
720550 - PORTLAND CEMENT CONCRETE BARRIER, MODIFIED	<u>94</u>
720585 - GUARDRAIL END TREATMENT ATTENUATOR, TYPE 1 - 31	<u>95</u>
720586 - GUARDRAIL END TREATMENT ATTENUATOR, TYPE 2 - 31	<u>95</u>
720588 - GUARDRAIL END TREATMENT ATTENUATOR, TYPE 3 - 31	<u>95</u>
727548 - PORTABLE CHAINLINK FENCE	<u>97</u>
727552 - RESOURCE PROTECTION FENCE	<u>98</u>
744506 - CONDUIT JUNCTION WELL, TYPE 7, PRECAST POLYMER CONCRETE ..	<u>100</u>
744523 - CONDUIT JUNCTION WELL, TYPE 4, PRECAST CONCRETE	<u>100</u>
744530 - CONDUIT JUNCTION WELL, TYPE 11, PRECAST CONCRETE/POLYMER LID- FRAME	<u>100</u>
744531 - CONDUIT JUNCTION WELL, TYPE 14, PRECAST CONCRETE/POLYMER LID- FRAME	<u>100</u>
745522 - SUPPLY OF 3" SCHEDULE 80 PVC CONDUIT	<u>102</u>
745524 - SUPPLY OF 4" SCHEDULE 80 PVC CONDUIT	<u>102</u>
745528 - SUPPLY OF 2" GALVANIZED STEEL CONDUIT	<u>102</u>
745544 - INSTALLATION OF CONDUIT IN UNPAVED TRENCH	<u>104</u>
745547 - INSTALLATION OF ADDITIONAL CONDUITS IN TRENCH OR OPEN CUT PAVEMENT	<u>104</u>
745602 - FURNISH & INSTALL UP TO 4" SCHEDULE 80 HDPE CONDUIT (BORE) ..	<u>108</u>
745604 - FURNISH & INSTALL UP TO 4" SCHEDULE 80 PVC CONDUIT (TRENCH) ..	<u>108</u>
746512 - CABLES, 1/#6 AWG	<u>112</u>
746515 - INSULATED GROUND CABLE, 1/#6	<u>112</u>
746527 - CABLES, 1/#2 AWG	<u>112</u>
746517 - ALUMINUM LIGHTING STANDARD WITH SINGLE DAVIT ARM, 30' POLE	<u>113</u>
746590 - FURNISH & INSTALL GROUND ROD	<u>117</u>
746653 - ELECTRICAL TESTING	<u>118</u>
746717 - ELECTRIC SERVICE ON PEDESTAL WITH SERVICE RISER	<u>121</u>
746848 - POLE BASE, TYPE 3A	<u>124</u>
746849 - POLE BASE, TYPE 3B	<u>124</u>
746850 - POLE BASE, TYPE 4A	<u>124</u>
746852 - POLE BASE, TYPE 6	<u>124</u>

617509 - CORRUGATED POLYETHYLENE FLARED END SECTION, 12"
617510 - CORRUGATED POLYETHYLENE FLARED END SECTION, 15"
617511 - CORRUGATED POLYETHYLENE FLARED END SECTION, 18"
617512 - CORRUGATED POLYETHYLENE FLARED END SECTION, 24"
617513 - CORRUGATED POLYETHYLENE FLARED END SECTION, 30"
617514 - CORRUGATED POLYETHYLENE FLARED END SECTION, 36"

Description:

The item(s) shall consist of furnishing and installing corrugated polyethylene flared end section in conformance with the locations, notes on the plans and as directed by the Engineer.

Materials and Construction Methods:

The flared end section shall be made of polyethylene compounds conforming to the requirements of AASHTO M294-90.

The flared end Section shall be attached to the end of the polyethylene pipe in accordance with the recommendations of the manufacturer's.

Basis of Payment:

The payment for the item(s) shall be made for at the contract unit price bid per Each for the item "Corrugated Polyethylene Flared End Section" of the diameter required by the contract, which price and payment shall constitute full compensation for furnishing and installing all materials, hauling, excavation and backfill, for cribbing, shoring, sheeting, for all labor, tools, equipment and necessary incidents to complete the work.

12/2/16

DELAWARE DEPARTMENT OF TRANSPORTATION
SCHEDULE OF ITEMS

PAGE: 2
DATE:

CONTRACT ID: T201011301.01 PROJECT(S): T201011301

All figures must be typewritten.

CONTRACTOR : _____

LINE NO	ITEM DESCRIPTION	APPROX. QUANTITY AND UNITS	UNIT PRICE		BID AMOUNT	
			DOLLARS	CTS	DOLLARS	CTS
0100	210000 FURNISHING BORROW TYPE "C" FOR PIPE, UTILITY TRENCH, AND STRUCTURE BACKFILL	155.000 CY				
0110	211002 REMOVAL OF STRUCTURES AND OBSTRUCTIONS (GUARDRAIL)	532.000 LF				
0130	211521 ABANDONMENT OF WELLS	1.000 EACH				
0140	302007 GRADED AGGREGATE BASE COURSE, TYPE B	14578.000 CY				
0150	302011 DELAWARE NO. 3 STONE	690.000 TON				
0160	302012 DELAWARE NO. 57 STONE	549.000 TON				
0170	401816 BITUMINOUS CONCRETE, SUPERPAVE, TYPE B, 160 GYRATIONS, PG 76-22	20790.000 TON				
0180	401819 BITUMINOUS CONCRETE, SUPERPAVE, BITUMINOUS CONCRETE BASE COURSE, 160 GYRATIONS, PG 64-22	16221.000 TON				
0190	401833 BITUMINOUS CONCRETE, SUPERPAVE, TYPE C, 160 GYRATIONS, PG 76-22, (NON-CARBONATE STONE)	9566.000 TON				

DELAWARE DEPARTMENT OF TRANSPORTATION
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LINE NO	ITEM DESCRIPTION	APPROX. QUANTITY AND UNITS	UNIT PRICE		BID AMOUNT	
			DOLLARS	CTS	DOLLARS	CTS
0200	402000 BITUMINOUS CONCRETE AND/OR COLD-LAID BITUMINOUS CONCRETE (TRM)	500.000 TON				
0210	406001 BITUMINOUS CONCRETE PATCHING	6087.000 SYIN				
0220	406501 BITUMINOUS CONCRETE PATCHING, PARTIAL DEPTH	346.000 SY				
0230	602002 PORTLAND CEMENT CONCRETE MASONRY, CLASS B	20.000 CY				
0240	612021 REINFORCED CONCRETE PIPE, 15", CLASS IV	962.000 LF				
0250	612022 REINFORCED CONCRETE PIPE, 18", CLASS IV	743.000 LF				
0260	612023 REINFORCED CONCRETE PIPE, 24", CLASS IV	96.000 LF				
0270	612024 REINFORCED CONCRETE PIPE, 27", CLASS IV	235.000 LF				
0280	612025 REINFORCED CONCRETE PIPE, 30", CLASS IV	266.000 LF				
0290	612026 REINFORCED CONCRETE PIPE, 30", CLASS V	350.000 LF				

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			DOLLARS	CTS	DOLLARS	CTS
0300	612030 REINFORCED CONCRETE PIPE, 18", CLASS V	782.000 LF				
0310	612031 REINFORCED CONCRETE PIPE, 24", CLASS V	174.000 LF				
0320	612032 REINFORCED CONCRETE PIPE, 15", CLASS V	1837.000 LF				
0330	612033 REINFORCED CONCRETE PIPE, 21", CLASS IV	1541.000 LF				
0340	612034 REINFORCED CONCRETE PIPE, 36", CLASS IV	1006.000 LF				
0350	612046 REINFORCED CONCRETE PIPE, 21", CLASS V	366.000 LF				
0360	612216 REINFORCED CONCRETE ELLIPTICAL PIPE, 14"X23", CLASS IV	38.000 LF				
0370	612219 REINFORCED CONCRETE ELLIPTICAL PIPE, 24"X38", CLASS IV	117.000 LF				
0380	614003 GALVANIZED CORRUGATED STEEL PIPE, 18", 16 GAGE, 2 2/3" X 1/2" CORRUGATION	60.000 LF				
0390	614588 DUCTILE IRON PIPE, 18"	269.000 LF				

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			DOLLARS	CTS	DOLLARS	CTS
0400	617002 REINFORCED CONCRETE FLARED END SECTION, 15"	13.000 EACH				
0410	617003 REINFORCED CONCRETE FLARED END SECTION, 18"	9.000 EACH				
0420	617004 REINFORCED CONCRETE FLARED END SECTION, 21"	2.000 EACH				
0430	617005 REINFORCED CONCRETE FLARED END SECTION, 24"	3.000 EACH				
0440	617007 REINFORCED CONCRETE FLARED END SECTION, 30"	4.000 EACH				
0450	617517 HEADWALL, SPECIAL TYPE I	1.000 EACH				
0460	617518 DRAINAGE HEADWALLS, MODIFIED	LUMP	LUMP			
0470	701010 PORTLAND CEMENT CONCRETE CURB, TYPE 1-8	338.000 LF				
0480	701011 PORTLAND CEMENT CONCRETE CURB, TYPE 2	9502.000 LF				
0490	701012 PORTLAND CEMENT CONCRETE CURB, TYPE 1-4	252.000 LF				

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			DOLLARS	CTS	DOLLARS	CTS
0500	701016 INTEGRAL PORTLAND CEMENT CONCRETE CURB & GUTTER, TYPE 1-4	5601.000 LF				
0510	705001 P.C.C. SIDEWALK, 4"	20716.000 SF				
0520	705002 P.C.C. SIDEWALK, 6"	16066.000 SF				
0530	705008 CURB RAMP, TYPE 1	100.000 SF				
0540	705009 CURB RAMP, TYPE 2, 3, AND/OR 4	325.000 SF				
0550	707005 UNDERDRAIN OUTLET	12.000 EACH				
0560	708045 LAWN INLET	1.000 EACH				
0570	708050 DRAINAGE INLET, 34" X 18"	8.000 EACH				
0580	708051 DRAINAGE INLET, 34" X 24"	20.000 EACH				
0590	708052 DRAINAGE INLET, 48" X 30"	10.000 EACH				

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LINE NO	ITEM DESCRIPTION	APPROX. QUANTITY AND UNITS	UNIT PRICE		BID AMOUNT	
			DOLLARS	CTS	DOLLARS	CTS
0600	708053 DRAINAGE INLET, 48" X 48"	17.000 EACH				
0610	708055 DRAINAGE INLET, 66" X 48"	1.000 EACH				
0620	708056 DRAINAGE INLET, 66" X 66"	1.000 EACH				
0630	708058 DRAINAGE INLET, 72" X 48"	1.000 EACH				
0640	708107 MANHOLE, ROUND	7.000 EACH				
0650	708112 MANHOLE, 48" X 48"	1.000 EACH				
0660	708113 MANHOLE, 66" X 30"	4.000 EACH				
0670	708114 MANHOLE, 66" X 48"	3.000 EACH				
0680	708512 DRAINAGE INLET, SPECIAL I	1.000 EACH				
0690	708585 JUNCTION BOX, 48" X 30"	1.000 EACH				

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LINE NO	ITEM DESCRIPTION	APPROX. QUANTITY AND UNITS	UNIT PRICE		BID AMOUNT	
			DOLLARS	CTS	DOLLARS	CTS
0700	710001 ADJUSTING AND REPAIRING EXISTING DRAINAGE INLET	3.000 EACH				
0710	712005 RIPRAP, R-4	907.000 SY				
0720	712006 RIPRAP, R-5	130.000 SY				
0730	712020 RIPRAP, R-4	704.000 TON				
0740	712021 RIPRAP, R-5	393.000 TON				
0750	712531 CHANNEL BED FILL	10.000 CY				
0760	713001 GEOTEXTILES, STABILIZATION	1570.000 SY				
0770	713002 GEOTEXTILES, SEPARATION	799.000 SY				
0780	713003 GEOTEXTILES, RIPRAP	1423.000 SY				
0790	715001 PERFORATED PIPE UNDERDRAINS, 6"	13640.000 LF				

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LINE NO	ITEM DESCRIPTION	APPROX. QUANTITY AND UNITS	UNIT PRICE		BID AMOUNT	
			DOLLARS	CTS	DOLLARS	CTS
0800	715500 UNDERDRAIN OUTLET PIPE, 6"	531.000 LF				
0810	715508 TEMPORARY DRAINAGE PIPE, 18"	80.000 LF				
0820	720050 GALVANIZED STEEL BEAM GUARDRAIL, TYPE 1-31	1043.500 LF				
0830	720055 CURVED GUARDRAIL SECTION	25.000 LF				
0840	720057 GUARDRAIL OVER CULVERTS, TYPE 3-31	1.000 EACH				
0850	720529 P.C.C. SAFETY BARRIER PERMANENT, SINGLE FACE	213.000 LF				
0860	720550 P.C.C. BARRIER, MODIFIED	345.000 LF				
0870	720585 GUARDRAIL END TREATMENT ATTENUATOR, TYPE 1-31	1.000 EACH				
0880	720586 GUARDRAIL END TREATMENT ATTENUATOR, TYPE 2-31	2.000 EACH				
0890	720588 GUARDRAIL END TREATMENT ATTENUATOR, TYPE 3-31	2.000 EACH				

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LINE NO	ITEM DESCRIPTION	APPROX. QUANTITY AND UNITS	UNIT PRICE		BID AMOUNT	
			DOLLARS	CTS	DOLLARS	CTS
0900	725001 GUARDRAIL TO BARRIER CONNECTION (EXIT TYPE 31)	1.000 EACH				
0910	725002 GUARDRAIL TO BARRIER CONNECTION, APPROACH TYPE 1-31	3.000 EACH				
0920	726001 END ANCHORAGE 31	2.000 EACH				
0930	727004 CHAIN-LINK FENCE, 6' HIGH	925.000 LF				
0940	727006 TERMINAL POSTS FOR 6' CHAIN-LINK FENCE	4.000 EACH				
0950	727012 VEHICULAR GATES	1.000 EACH				
0970	727548 PORTABLE CHAINLINK FENCE	1200.000 LF				
0980	727552 RESOURCE PROTECTION FENCE	2488.000 LF				
0990	743000 MAINTENANCE OF TRAFFIC	LUMP		LUMP		
1000	743004 FURNISH AND MAINTAIN PORTABLE CHANGEABLE MESSAGE SIGN	56.000 EADY				

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LINE NO	ITEM DESCRIPTION	APPROX. QUANTITY AND UNITS	UNIT PRICE		BID AMOUNT	
			DOLLARS	CTS	DOLLARS	CTS
1010	743006 PLASTIC DRUMS EADY	175182.000				
1020	743007 TRAFFIC OFFICERS HOUR	238.000	75.00000		17850.00	
1030	743009 FURNISH AND MAINTAIN TRUCK MOUNTED ATTENUATOR, TYPE I EADY	875.000				
1040	743015 FURNISH AND MAINTAIN PORTABLE PCC SAFETY BARRIER LF	4975.000				
1050	743016 RELOCATION PORATBLE SAFETY BARRIER LF	2698.000				
1060	743023 TEMPORARY BARRICADES, TYPE III LFDY	24450.000				
1070	743024 TEMPORARY WARNING SIGNS AND PLAQUES EADY	35327.000				
1080	743025 INSTALL TEMPORARY IMPACT ATTENUATOR EACH	12.000				
1090	743029 FURNISH TEMPORARY IMPACT ATTENUATOR - NON-GATING, REDIRECTIVE, TEST LEVEL 3 EACH	12.000				
1100	743030 RELOCATE TEMPORARY IMPACT ATTENUATOR EACH	12.000				

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LINE NO	ITEM DESCRIPTION	APPROX. QUANTITY AND UNITS	UNIT PRICE		BID AMOUNT	
			DOLLARS	CTS	DOLLARS	CTS
1110	743050 FLAGGER, NEW CASTLE COUNTY, STATE	11060.000 HOUR				
1120	743062 FLAGGER, NEW CASTLE COUNTY, STATE, OVERTIME	2172.000 HOUR				
1130	744506 CONDUIT JUNCTION WELL, TYPE 7, PRECAST POLYMER CONCRETE	5.000 EACH				
1140	744523 CONDUIT JUNCTION WELL, TYPE 4, PRECAST CONCRETE	13.000 EACH				
1150	744530 CONDUIT JUNCTION WELL, TYPE 11, PRECAST CONCRETE/ POLYMER LID-FRAME	33.000 EACH				
1160	744531 CONDUIT JUNCTION WELL, TYPE 14, PRECAST CONCRETE/ POLYMER LID-FRAME	3.000 EACH				
1170	745522 SUPPLY OF 3" SCHEDULE 80 PVC CONDUIT	2845.000 LF				
1180	745524 SUPPLY OF 4" SCHEDULE 80 PVC CONDUIT	50.000 LF				
1190	745528 SUPPLY OF 2" GALVANIZED STEEL CONDUIT	37.000 LF				
1200	745544 INSTALLATION OF CONDUIT IN UNPAVED TRENCH	2395.000 LF				

DELAWARE DEPARTMENT OF TRANSPORTATION
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LINE NO	ITEM DESCRIPTION	APPROX. QUANTITY AND UNITS	UNIT PRICE		BID AMOUNT	
			DOLLARS	CTS	DOLLARS	CTS
1210	745547 INSTALLATION OF ADDITIONAL CONDUITS IN TRENCH OR OPEN CUT PAVEMENT	528.000 LF				
1220	745602 FURNISH & INSTALL UP TO 4" SCHEDULE 80 HDPE CONDUIT (BORE)	958.000 LF				
1230	745604 FURNISH & INSTALL UP TO 4" SCHEDULE 80 PVC CONDUIT (TRENCH)	10210.000 LF				
1240	746512 CABLES, 1/#6 AWG	7289.000 LF				
1250	746515 FURNISH & INSTALL 1-CONDUCTOR #6 AWG STRANDED INSULATED COPPER GROUND WIRE	2586.000 LF				
1260	746517 ALUMINUM LIGHTING STANDARD WITH SINGLE DAVIT ARM, 30' POLE	20.000 EACH				
1270	746527 CABLES, 1/#2 AWG	146.000 LF				
1280	746590 FURNISH & INSTALL GROUND ROD	31.000 EACH				
1290	746653 ELECTRICAL TESTING	LUMP	LUMP			
1300	746717 ELECTRIC SERVICE ON RACK WITH SERVICE RISER	1.000 EACH				

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LINE NO	ITEM DESCRIPTION	APPROX. QUANTITY AND UNITS	UNIT PRICE		BID AMOUNT	
			DOLLARS	CTS	DOLLARS	CTS
1310	746848 POLE BASE, TYPE 3A	2.000 EACH				
1320	746849 POLE BASE, TYPE 3B	6.000 EACH				
1330	746850 POLE BASE, TYPE 4A	8.000 EACH				
1340	746852 POLE BASE, TYPE 6	20.000 EACH				
1350	746924 FURNISH & INSTALL LOOP WIRE 1-CONDUCTOR #14 AWG ENCASED IN 1/4" FLEXIBLE TUBING IN A LOOP SAWCUT	2600.000 LF				
1360	747508 LIGHTING CONTROL CENTER - 100 A	1.000 EACH				
1370	747515 CABINET BASE, TYPE M	1.000 EACH				
1380	748015 PERMANENT PAVEMENT STRIPING, SYMBOL/LEGEND ALKYD-THERMOPLAST IC	5055.000 SF				
1390	748026 TEMPORARY MARKINGS, PAINT SYMBOL/LEGEND	128.000 SF				
1400	748032 TEMPORARY MARKINGS, PAINT, 5"	89187.000 LF				

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			DOLLARS	CTS	DOLLARS	CTS
1410	748509 PERMANENT PAVEMENT STRIPING, EPOXY RESIN PAINT, 12"	405.000 LF				
1420	748530 REMOVAL OF PAVEMENT STRIPING	21979.000 SF				
1430	748548 PERMANENT PAVEMENT STRIPING, EPOXY RESIN PAINT, WHITE/YELLOW, 5"	50876.000 LF				
1440	748549 PERMANENT PAVEMENT STRIPING, EPOXY RESIN PAINT, WHITE/YELLOW, 10"	118.000 LF				
1450	749500 SIGN PANEL	676.000 SF				
1460	749687 INSTALLATION OR REMOVAL OF TRAFFIC SIGN(S) ON SINGLE SIGN POST	75.000 EACH				
1470	749690 INSTALLATION OR REMOVAL OF TRAFFIC SIGNS ON MULTIPLE SIGN POSTS	357.000 SF				
1480	758000 REMOVAL OF EXISTING PORTLAND CEMENTCONCRETE PAVEMENT, CURB, SIDEWALK, ETC.	529.000 SY				
1490	760000 PAVEMENT - MILLING, HOT-MIX	6330.000 SYIN				

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All figures must be typewritten.

CONTRACTOR : _____

LINE NO	ITEM DESCRIPTION	APPROX. QUANTITY AND UNITS	UNIT PRICE		BID AMOUNT	
			DOLLARS	CTS	DOLLARS	CTS
1500	760003 PAVEMENT - MILLING, HOT-MIX, VARIABLE DEPTH	 5339.000 SY				
1510	760012 RUMBLE STRIPS, BIKE-FRIENDLY, HOT-MIX	 8948.000 LF				
1520	761001 BUTT JOINTS, HOT MIX	 300.000 SY				
1530	762001 SAW CUTTING, BITUMINOUS CONCRETE	 2312.000 LF				
1540	762002 SAW CUTTING, CONCRETE, FULL DEPTH	 14765.000 LF				
1550	763000 INITIAL EXPENSE	 LUMP		LUMP		
1560	763501 CONSTRUCTION ENGINEERING	 LUMP		LUMP		
1570	763503 TRAINEE	 2000.000 HOUR		0.80000		1600.00
1580	763508 PROJECT CONTROL SYSTEM DEVELOPMENT PLAN	 LUMP		LUMP		
1590	763509 CPM SCHEDULE UPDATES AND/OR REVISED UPDATES	 19.000 EAMO				

DELAWARE DEPARTMENT OF TRANSPORTATION
SCHEDULE OF ITEMS

PAGE: 17
DATE:

CONTRACT ID: T201011301.01 PROJECT(S): T201011301

All figures must be typewritten.

CONTRACTOR : _____

LINE NO	ITEM DESCRIPTION	APPROX. QUANTITY AND UNITS	UNIT PRICE		BID AMOUNT	
			DOLLARS	CTS	DOLLARS	CTS
1600	900500 ENVIRONMENTAL PERFORMANCE INCENTIVE (DISINCENTIVE)	LUMP	LUMP			324000.00
1610	905001 SILT FENCE	LF	28808.000			
1620	905003 SEDIMENT TRAP	CY	4048.000			
1630	905004 INLET SEDIMENT CONTROL, DRAINAGE INLET	EACH	13.000			
1640	905005 INLET SEDIMENT CONTROL, CURB INLET	EACH	45.000			
1650	905006 INLET SEDIMENT CONTROL, CULVERT INLET	EACH	15.000			
1660	906004 SKIMMER DEWATERING DEVICE	EACH	4.000			
1670	907011 STONE CHECK DAM	TON	14.000			
1680	908010 TOPSOILING, 6" DEPTH	SY	59004.000			
1690	908014 PERMANENT GRASS SEEDING, DRY GROUND	SY	83044.000			

DELAWARE DEPARTMENT OF TRANSPORTATION
SCHEDULE OF ITEMS

PAGE: 18
DATE:

CONTRACT ID: T201011301.01 PROJECT(S): T201011301

All figures must be typewritten.

CONTRACTOR : _____

LINE NO	ITEM DESCRIPTION	APPROX. QUANTITY AND UNITS	UNIT PRICE		BID AMOUNT	
			DOLLARS	CTS	DOLLARS	CTS
1700	908015 PERMANENT GRASS SEEDING, WET GROUND	5766.000 SY				
1710	908017 TEMPORARY GRASS SEEDING	77199.000 SY				
1720	908019 STREAMBANK SEED MIX, SEEDING	50.000 SY				
1730	908020 EROSION CONTROL BLANKET MULCH	53042.000 SY				
1740	908021 TURF REINFORCEMENT MATTING, TYPE 1	9275.000 SY				
1750	908023 STABILIZED CONSTRUCTION ENTRANCE	500.000 TON				
1760	909005 STREAM DIVERSION	LUMP	LUMP			
1770	910007 OUTLET STRUCTURE	LUMP	LUMP			
1780	211000 REMOVAL OF STRUCTURES AND OBSTRUCTIONS	LUMP	LUMP			
1790	617511 CORRUGATED POLYETHYLENE FLARED END SECTION, 18"	4.000 EACH				
	SECTION 0001 TOTAL					
	TOTAL BID					

GENERAL NOTES

- THIS PROJECT IS TO BE CONSTRUCTED IN ACCORDANCE WITH THE DELAWARE DEPARTMENT OF TRANSPORTATION "STANDARD SPECIFICATIONS", DATED AUGUST 2001 AND THE DELAWARE DEPARTMENT OF TRANSPORTATION "STANDARD CONSTRUCTION DETAILS", DATED 2001, INCLUDING ALL REVISIONS UP TO THE DATE OF ADVERTISEMENT.
- 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.
- THE ENDS OF ALL CURBS SHALL BE DEPRESSED FLUSH WITH THE PAVEMENT AT A RATIO OF TWELVE TO ONE (12:1) UNLESS OTHERWISE DIRECTED BY THE ENGINEER.
- THE CONTRACTOR SHALL PROVIDE AND INSTALL PVC SLEEVES (4" INSIDE MINIMUM DIAMETER, 6" INSIDE MAXIMUM DIAMETER) IN PROPOSED CONCRETE SIDEWALKS, ISLANDS, AND MEDIANS FOR FUTURE TRAFFIC SIGN POSTS AS DIRECTED BY THE ENGINEER. THE LOWER END OF THE SLEEVE SHALL SIT ON THE TOP OF THE SUBBASE MATERIAL. THE COST SHALL BE INCIDENTAL TO THE CONTRACT.
- STAGING AREAS - PROPER EROSION AND SEDIMENT CONTROL MEASURES, AS DETERMINED BY THE ENGINEER, SHALL BE INSTALLED IN ALL STAGING AREAS. ALL AREAS USED BY THE CONTRACTOR FOR STAGING OPERATIONS SHALL BE FULLY RESTORED BY THE CONTRACTOR UPON COMPLETION OF THE CONTRACT. IF THE STAGING AREA IS PAVED, IT SHALL BE RESTORED TO ITS ORIGINAL CONDITION. IF THE AREA IS UNPAVED, IT SHALL BE RE-GRADED, TOPSOILED, SEEDED AND MULCHED IN ACCORDANCE WITH DELAWARE STANDARD SPECIFICATIONS 732, 734 AND 735, FOR TOPSOIL, SEED AND MULCH RESPECTIVELY, TO THE SATISFACTION OF THE ENGINEER. THE SEED SHALL ADHERE TO THE SPECIFICATIONS OF SECTION 734 FOR PERMANENT GRASS SEEDING - DRY GROUND. ALL COSTS ASSOCIATED WITH RESTORATION OF THE STAGING AREA SHALL BE AT THE CONTRACTOR'S EXPENSE. IF THE ENGINEER DETERMINES THAT A SATISFACTORY STAND OF GRASS DOES NOT EXIST AT THE TIME OF FINAL INSPECTION, ALL COSTS ASSOCIATED WITH REESTABLISHING A SATISFACTORY STAND OF GRASS SHALL BE AT THE CONTRACTOR'S EXPENSE.
- SITE REVIEWER - AN EROSION CONTROL SITE REVIEWER SHALL BE A PERSON FROM THE CONTRACTOR'S STAFF ASSIGNED TO EROSION AND SEDIMENT CONTROL IMPLEMENTATION AND MAINTENANCE AND SHALL BE REQUIRED ON SPECIFIC PROJECTS. THE NAME AND DNREC CERTIFICATION NUMBER OF EACH SITE REVIEWER SO REQUIRED SHALL BE SUBMITTED TO THE DEPARTMENT AT THE TIME OF BID. THE NAME OF THE DELAWARE REGISTERED PROFESSIONAL ENGINEER PROVIDING DIRECTION AND SUPERVISION OF THE SITE REVIEWER, AS REQUIRED IN SECTION 12.3 OF THE DELAWARE SEDIMENT AND STORMWATER REGULATIONS, SHALL ALSO BE SUBMITTED TO THE DEPARTMENT AT THE TIME OF BID. THE SITE REVIEWER REQUIREMENTS IN EFFECT ON THIS PROJECT SHALL BE MARKED WITH AN "X" BELOW:

EROSION POTENTIAL FOR THIS PROJECT	SITE REVIEWER REQUIREMENT
() INSIGNIFICANT	NONE
() MINOR	CONTRACTOR CERTIFICATION COURSE TRAINING ONLY, AS DEFINED IN SECTION 13 OF THE DELAWARE SEDIMENT AND STORMWATER REGULATIONS.
() MEDIUM	AT THE TIME OF BID OF THE CONTRACT, EITHER THE SUPERINTENDENT OR A SEPARATE INDIVIDUAL FROM THE CONTRACTOR'S STAFF SHALL BE A CERTIFIED CONSTRUCTION REVIEWER (CCR), AS DEFINED IN SECTION 12 OF THE DELAWARE SEDIMENT AND STORMWATER REGULATIONS.
(X) MAJOR	SUPERINTENDENT AND AN INDIVIDUAL FROM CONTRACTOR'S STAFF SHALL BE CCR. ONE INDIVIDUAL FROM THE CONTRACTOR'S STAFF MUST BE A CCR AT THE TIME OF BID OF THE CONTRACT. THE SUPERINTENDENT MUST BECOME A CCR WITHIN ONE YEAR AFTER THE AWARD OF CONTRACT.

7. ELECTRONIC PROJECT FILES THAT WILL BE MADE AVAILABLE TO THE CONTRACTOR INCLUDE:

()	NONE
(X)	ASCII DATA FILES WITH COORDINATES AND ELEVATIONS FOR PROPOSED POINTS AS SELECTED BY THE ENGINEER.
(X)	ALL PLAN SHEETS, IN PDF FORMAT.
(X)	EXISTING DIGITAL TERRAIN MODEL, IN .DTM FILE FORMAT, COMPATIBLE WITH SOFTWARE CURRENTLY USED BY DELDOT.
(X)	PROPOSED DIGITAL TERRAIN MODEL, IN .DTM FILE FORMAT, COMPATIBLE WITH SOFTWARE CURRENTLY USED BY DELDOT.
(X)	DESIGN FILE, IN .DGN FILE FORMAT, CONTAINING ONLY THE PROPOSED 3D TRIANGLES OF THE PROPOSED DIGITAL TERRAIN MODEL (DTM).

8. AMERICAN TRAFFIC SAFETY SERVICES ASSOCIATION (ATSSA) CERTIFIED TRAFFIC CONTROL SUPERVISOR REQUIREMENT FOR THIS PROJECT.

()	THE CONTRACTOR SHALL NOT BE REQUIRED TO HAVE AN ATSSA SUPERVISOR ASSIGNED TO THIS PROJECT.
()	THE CONTRACTOR SHALL HAVE AN ATSSA SUPERVISOR ASSIGNED TO THIS PROJECT. THE CONTRACTOR'S GENERAL SUPERINTENDENT FOR THIS PROJECT OR ANOTHER ATSSA CERTIFIED MEMBER OF THE CONTRACTOR'S PROJECT STAFF MAY BE THE ATSSA SUPERVISOR.
(X)	THE CONTRACTOR SHALL HAVE AN ATSSA SUPERVISOR ASSIGNED TO THIS PROJECT. THE ATSSA SUPERVISOR'S SOLE JOB SHALL BE SUPERVISION OF THE INSTALLATION, OPERATION AND MAINTENANCE OF TRAFFIC CONTROL DEVICES FOR THIS PROJECT. THE CONTRACTOR'S GENERAL SUPERINTENDENT FOR THIS PROJECT SHALL NOT BE THE ATSSA SUPERVISOR.

- THE DISTURBED AREA FOR THIS PROJECT IS 38.03 ACRES.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR ADHERING TO THE CONSTRUCTION SITE POLLUTION PREVENTION SPECIFICATIONS AS DETAILED IN SECTION 3.6 OF THE "DELAWARE EROSION AND SEDIMENT CONTROL HANDBOOK." ALL COSTS ASSOCIATED WITH ADHERING TO THE STANDARDS SHALL BE INCIDENTAL TO THE OVERALL CONTRACT COSTS.
- THE EROSION AND SEDIMENT CONTROL PLANS HAVE BEEN APPROVED BY DELDOT'S STORMWATER ENGINEER UNDER DELDOT'S DELEGATED AUTHORITY. THE EROSION AND SEDIMENT CONTROL PLANS ARE VALID FOR A THREE YEAR PERIOD, BEGINNING ON THE DATE THE STORMWATER ENGINEER SIGNED THE CONSTRUCTION TITLE SHEET. IF THE FINAL ACCEPTANCE OF THE PROJECT IS ANTICIPATED TO EXTEND BEYOND THE THREE YEARS, THE CONTRACTOR SHALL INFORM THE ENGINEER THREE MONTHS PRIOR TO THE EXPIRATION OF THE EROSION AND SEDIMENT CONTROL PLAN APPROVAL. DELDOT WILL REVIEW THE CURRENT EROSION AND SEDIMENT CONTROL PLAN AND ISSUE AN EXTENSION WITH ANY APPROPRIATE MODIFICATIONS.
- RIGHT-OF-WAY PLANS FOR RIGHT-OF-WAY OR EASEMENT STAKEOUT PURPOSES ARE AVAILABLE FROM THE DEPARTMENT.

PROJECT NOTES

SECTION 100

- ANY DAMAGE TO ITEMS NOTED TO BE RELOCATED OR RESET BY THE CONTRACTOR, AT THE DISCRETION OF THE ENGINEER, SHALL BE REPAIRED AND/OR REPLACED IN KIND AT THE CONTRACTOR'S EXPENSE.
- PRIOR TO PERFORMING ANY WORK ON THE PROJECT, THE CONTRACTOR AND THE ENGINEER'S REPRESENTATIVE SHALL JOINTLY PERFORM SUFFICIENT FIELD SURVEYS TO VERIFY THE ADVERTISED CROSS SECTIONS AND ELECTRONIC PROJECT FILES AND AGREE ON THE RESULTS TO OBTAIN INITIAL GROUND ELEVATIONS THAT SHALL BE USED IN CALCULATING QUANTITIES. ANY DISCREPANCIES FOUND SHALL BE AGREED UPON PRIOR TO BEGINNING EARTHWORK OPERATIONS. ALL COSTS SHALL BE INCLUDED IN ITEM 763501 - CONSTRUCTION ENGINEERING.
- PRIOR TO PERFORMING ANY WORK IN AREAS WHERE ADVANCED GRADING HAS BEEN PERFORMED UNDER OTHER CONTRACTS, THE CONTRACTOR AND THE ENGINEER'S REPRESENTATIVE SHALL JOINTLY PERFORM FIELD SURVEYS AND AGREE ON THE RESULTS TO OBTAIN INITIAL GROUND ELEVATIONS THAT SHALL BE USED IN CALCULATING QUANTITIES. ALL COSTS SHALL BE INCLUDED IN ITEM 763501 - CONSTRUCTION ENGINEERING.
- DELETE IN ITS ENTIRETY STANDARD SPECIFICATION SUBSECTION 104.10 "RIGHTS IN AND USE OF MATERIALS FOUND ON THE WORK" AND REPLACE WITH THE FOLLOWING: THE CONTRACTOR CAN EXPECT TO ENCOUNTER HORIZONTAL AND VERTICAL DEPOSITS OF MATERIAL IN THE ON-SITE BORROW SITES, ROADWAY EXCAVATIONS, OR EXCAVATION FROM OTHER WORK ITEMS THAT WILL MEET THE REQUIREMENTS FOR BORROW TYPES A, C, D, F, AND/OR FURNISHING BORROW, TYPE C AS WELL AS UNSUITABLE MATERIALS. ALL REFERENCES TO THESE VARIOUS BORROW TYPES IN THE PLANS AND SPECIAL PROVISIONS SHALL BE INTERPRETED TO MEAN MATERIALS OBTAINED FROM ON-SITE EXCAVATIONS MEETING THE GRADATION REQUIREMENTS OF THE BORROW TYPE STATED IN THE PLANS OR SPECIAL PROVISIONS. THE CONTRACTOR SHALL PERFORM THE EXCAVATIONS IN A METHOD APPROVED BY THE ENGINEER SO THAT THESE DEPOSITS OF MATERIAL ARE MADE AVAILABLE TO MEET THE PROJECT NEEDS. EXCESSIVE OR INSUFFICIENT MOISTURE CONTENT SHALL NOT BE CRITERIA FOR CLASSIFYING MATERIAL AS UNSUITABLE FOR USE. PAYMENT FOR ALL OF THESE BORROW TYPES INCORPORATED INTO THE PROJECT WILL BE MADE USING THE BID ITEM UNDER WHICH THE MATERIAL WAS ORIGINALLY EXCAVATED ON SITE. UNLESS APPROVED OR SPECIFIED OTHERWISE, BORROW, TYPE B IS INTENDED TO BE FURNISHED FROM A SOURCE OUTSIDE OF THE PROJECT LIMITS AND PAID FOR UNDER ITEM 209002. PLACEMENT, HAULING, STORING, AND COMPACTING OF ALL BORROW MATERIAL EXCAVATED ON SITE TO BE USED AS THE STATED BORROW TYPES A, C, D, F, AND/OR FURNISHING BORROW, TYPE C AS NOTED IN THE PLANS OR SPECIAL PROVISIONS IS INCIDENTAL TO THE ITEM UNDER WHICH IT WAS EXCAVATED (FOR EXAMPLE, ITEMS 202000, 207000, 208000, OR OTHERS AS APPLICABLE). THE MATERIALS SHALL BE PLACED IN ACCORDANCE WITH THEIR INTENDED USE BUT NO PAYMENT WILL BE MADE UNDER THE ITEMS FOR WHICH THE EXCAVATED MATERIALS ARE USED. THE CONTRACTOR IS RESPONSIBLE FOR MANAGING THE ON-SITE EXCAVATIONS TO INCLUDE LOCATING THE TYPES OF BORROW REQUIRED TO MEET THE PLAN NEEDS, STOCKPILING, HAULING, WETTING OR DRYING THE MATERIAL TO MEET STANDARD SPECIFICATION 202.05(F), AND MULTIPLE HANDLING IF NEEDED, WITH ALL COSTS INCIDENTAL TO THE ITEM UNDER WHICH THE MATERIAL WAS INITIALLY EXCAVATED. ALL REQUIRED EROSION AND SEDIMENT CONTROL WILL BE PAID SEPARATELY USING THE APPLICABLE BID ITEMS.

SECTION 200

- THE CONTRACTOR SHALL REMOVE AND RESET ALL MAILBOXES TO MAINTAIN MAIL SERVICE AS DIRECTED BY THE ENGINEER. THE CONTRACTOR SHALL RELOCATE MAILBOXES AS REQUIRED BY THE PROPOSED GEOMETRICS AND AS DIRECTED BY THE ENGINEER. WHEN RELOCATING MAILBOXES IN CURBED SECTIONS, THE FACE OF THE MAILBOX SHALL BE FLUSH WITH THE BACK EDGE OF CURB. WHEN RELOCATING MAILBOXES IN OPEN SECTIONS, THE FACE OF THE MAILBOX SHALL SET BACK 8 INCHES FROM THE EDGE OF THE PAVED SHOULDER. THE BOTTOM OF THE MAILBOX SHALL BE SET 46 INCHES ABOVE THE ROADWAY SURFACE. MAILBOXES LOCATED AT DRIVEWAY ENTRANCES SHALL BE PLACED ON THE FAR SIDE OF THE DRIVEWAY IN THE DIRECTION OF TRAVEL. POSTS BEING RESET IN CONCRETE SIDEWALK SHALL BE PLACED IN AN APPROPRIATE SIZE PVC SLEEVE. COST FOR ALL WORK AND MATERIALS SHALL BE PAID UNDER ITEM 201000 - CLEARING AND GRUBBING.
- IN AREAS WHERE TREES OR SHRUBS WILL BE OVERHANGING THE PROPOSED SIDEWALK, PRUNING MAY BE NECESSARY TO ACHIEVE A VERTICAL CLEAR SPACE OF 10 FEET ABOVE THE PROPOSED SIDEWALK ELEVATION. THE CONTRACTOR SHALL PRUNE EXISTING TREE AND SHRUB BRANCHES, WHICH OVERHANG THE SIDEWALK, IN ACCORDANCE WITH I.S.A. STANDARDS. THE CONTRACTOR SHALL NOTIFY DELDOT'S ROADSIDE ENVIRONMENTALIST ADMINISTRATOR, BRIAN URBANEK AT (302) 760-2536 AND/OR HIS DESIGNEE, AT LEAST TWO (2) DAYS PRIOR TO THE PRUNING OPERATION. ALL COSTS ASSOCIATED WITH THE ABOVE WORK TO BE PAID UNDER ITEM 201000 - CLEARING AND GRUBBING.
- THE ENGINEER MAY REQUIRE THE CONTRACTOR TO EXCAVATE TEST PITS ALONG PROPOSED DRAINAGE RUNS, AT POINTS OF POSSIBLE UTILITY CONFLICTS, TO DETERMINE IF A CONFLICT EXISTS. ANY CONFLICTS SHALL BE COORDINATED BY THE CONTRACTOR, WITH THE ENGINEER AND THE UTILITY COMPANY INVOLVED. THE ENGINEER SHALL ULTIMATELY DETERMINE THE SOLUTION TO THE UTILITY CONFLICT. TEST HOLES SHALL BE MEASURED AND PAID FOR IN ACCORDANCE WITH ITEM 208000 - EXCAVATION AND BACKFILLING FOR PIPE TRENCHES, BUT ONLY TO THE ACTUAL DEPTH EXCAVATED.
- DELETE THE FIRST SENTENCE OF STANDARD SPECIFICATION SUBSECTION 202.03 (C) AND REPLACE WITH THE FOLLOWING: "ALL TOPSOIL, IF PRESENT, SHALL BE REMOVED IN ITS ENTIRETY IN FILL SECTIONS, REGARDLESS OF EMBANKMENT HEIGHT".
- EXISTING MATERIALS ALONG THE PROPOSED ROADWAY ALIGNMENTS HAVE THE POTENTIAL TO MEET THE REQUIREMENTS OF BORROW, TYPE A FOR PAVEMENT SECTIONS. EXCAVATE TO THE TOP OF THE BORROW, TYPE A PAVEMENT LAYER. THE ENGINEER WILL EVALUATE THE MATERIALS PRESENT. IF THE MATERIALS ARE DEEMED SUITABLE FOR BORROW, TYPE A, UTILIZE ITEM 202515 - COMPACTING MATERIAL INSITU AS DIRECTED BY THE ENGINEER. IF THE MATERIALS PRESENT ARE NOT DEEMED SUITABLE, AS DIRECTED BY THE ENGINEER, REMOVE THE MATERIALS TO THE BOTTOM OF THE BORROW, TYPE A PAVEMENT LAYER UTILIZING ITEM 202000 - EXCAVATION AND EMBANKMENT. BACKFILL TO THE TOP OF THE BORROW, TYPE A PAVEMENT LAYER WITH MATERIAL MEETING THE REQUIREMENTS OF BORROW, TYPE A.
- APPROVED COVERS SHALL BE INSTALLED OVER ALL LOADED TRUCKS OR TRAILERS HAULING BORROW, EXCAVATED MATERIALS, AGGREGATES, ETC. TO OR FROM THE PROJECT SITE OVER STATE MAINTAINED ROADS. THE COVERS SHALL BE INSTALLED TO PREVENT MATERIAL FROM LEAVING THE TRUCKS OR TRAILERS. THE MATERIAL SHALL BE FULLY COVERED AND THE COVERS TIED ON THE REAR AND BOTH SIDES. ANY MATERIALS DELIVERED, TRANSPORTED, OR REMOVED IN UNCOVERED TRUCKS OR TRAILERS WILL BE INCORPORATED INTO THE PROJECT, OR REMOVED FROM THE SITE, WITH NO PAYMENT TO THE CONTRACTOR FOR FURNISHING, REMOVING, OR PLACING THE MATERIALS.
- WHEN PERFORMING ANY EXCAVATION OR BACKFILLING OPERATION, THE CONTRACTOR SHALL PROVIDE DEWATERING MEASURES IN ACCORDANCE WITH SEC 111 AT ALL TIMES TO KEEP THE GROUNDWATER LEVEL AT LEAST ONE FOOT BELOW THE EXCAVATION ELEVATION. THE CONTRACTOR SHALL ALSO PROVIDE NECESSARY DEWATERING IN ACCORDANCE WITH SEC 111 TO STABILIZE EXCAVATED SLOPES DURING CONSTRUCTION AND UNTIL THE SLOPES ARE STABILIZED AS DETERMINED BY THE ENGINEER. ALL COSTS SHALL BE INCIDENTAL TO THE APPLICABLE EXCAVATION OR BACKFILLING ITEM.

PROJECT NOTES (CONT.)

- AS NOTED IN THE CONTRACT DOCUMENTS AND DIRECTED BY THE ENGINEER, MATERIALS ARE TO BE STOCKPILED FOR LATER USE IN THE PROJECT. THE TOPSOIL FROM THESE STOCKPILE AREAS SHALL BE REMOVED IN ITS ENTIRETY AND STOCKPILED FOR REPLACEMENT IN THE AREA WHERE IT WAS EXCAVATED. THE EXCAVATION AND STOCKPILING OF THE TOPSOIL SHALL BE MEASURED FOR PAYMENT UNDER ITEM 202000 - EXCAVATION AND EMBANKMENT. THE TOPSOIL SHALL BE REPLACED IN REASONABLY CLOSE CONFORMITY TO THE ORIGINAL LINES, GRADES AND ELEVATIONS AS DIRECTED BY THE ENGINEER. ALL COSTS ASSOCIATED WITH REPLACING THE FULL DEPTH OF THE TOPSOIL REMOVED SHALL BE PAID UNDER ITEM 733002 - TOPSOILING, 6". THE AREA OF TOPSOIL REPLACED SHALL ONLY BE MEASURED ONCE FOR PAYMENT UNDER ITEM 733002 - TOPSOILING, 6" REGARDLESS OF THE FULL DEPTH OF TOPSOIL PLACED. SEEDING AND MULCHING OF THE REPLACED TOPSOIL SHALL BE PERFORMED UNDER THE APPLICABLE BID ITEMS.
- FOR ESTIMATING PAYMENT FOR ALL EARTHWORK ITEMS, TWO-THIRDS OF THE FACTORY RATED CAPACITY OF THE EARTHWORK MOVING EQUIPMENT SHALL BE USED. FOR TEN-WHEEL DUMP TRUCKS, TEN (10) CUBIC YARDS SHALL BE USED.
- ALL EXCAVATION AND EMBANKMENT REQUIRED FOR CONSTRUCTION OF STORMWATER PONDS WILL BE PERFORMED, MEASURED AND PAID FOR UNDER ITEM 202000, EXCAVATION AND EMBANKMENT. THE WORK WILL INCLUDE MEASUREMENT FOR:
 - GENERAL POND EXCAVATION TO THE LINES AND GRADES SHOWN ON THE PLANS, INCLUDING THE INITIAL OVEREXCAVATION FOR USE OF THE SWM FACILITY AS A SEDIMENT BASIN IF INDICATED ON THE PLANS.
 - EXCAVATION FOR FOREBAYS, CUT-OFF TRENCHES, AND / OR CORE TRENCHES AS SHOWN ON THE PLANS.
- SEDIMENT BASIN CONSTRUCTION AND MAINTENANCE :
 - CLEARING AND GRUBBING OF SEDIMENT BASIN POND AREAS IS TO BE INCLUDED IN THE LUMP SUM PRICE FOR ITEM 201000.
 - ALL EXCAVATION AND EMBANKMENT REQUIRED FOR CONSTRUCTION OF SEDIMENT BASINS WILL BE PERFORMED, MEASURED AND PAID FOR UNDER ITEM 202000, EXCAVATION AND EMBANKMENT.
 - REMOVAL OF SEDIMENT FROM THE SEDIMENT BASIN SHALL BE PERFORMED WHEN THE CLEANOUT ELEVATION IS REACHED AS NOTED ON THE PLANS.
 - SEDIMENT REMOVAL FROM THE SEDIMENT BASIN SHALL BE MEASURED FOR PAYMENT UNDER ITEM 202000. ONLY REMOVAL OF SEDIMENT FROM A SEDIMENT BASIN SHALL BE MEASURED FOR PAYMENT UNDER ITEM 202000.
 - REMOVAL OF SEDIMENT FROM ALL OTHER EROSION AND SEDIMENT CONTROL DEVICES AND REMOVAL OF SEDIMENT THAT HAS BYPASSED OR OTHERWISE NOT BEEN TRAPPED BY ANY SEDIMENT CONTROL DEVICE SHALL BE INCLUDED IN THE PAYMENT FOR THE SEDIMENT CONTROL ITEM PER SECTION 900.
- UNDER ITEM 201000 - CLEARING AND GRUBBING, ALL VEGETATION, TREES, STUMPS, ROOTMAT, ETC. SHALL BE REMOVED IN THEIR ENTIRETY WITHIN THE LIMITS OF CONSTRUCTION, REGARDLESS OF THE EMBANKMENT DEPTH, EXCEPT SUCH OBJECTS AS ARE DESIGNATED TO REMAIN OR ARE TO BE REMOVED IN ACCORDANCE WITH OTHER SECTIONS OF THE CONTRACT DOCUMENTS. WORK UNDER 201000 - CLEARING AND GRUBBING IS TO BE PERFORMED IN ITS ENTIRETY EITHER BY THE PRIME CONTRACTOR OR AN APPROVED SUBCONTRACTOR. CUTTING OF FIREWOOD BY PRIVATE CITIZENS OR OTHER PARTIES SHALL NOT BE PERMITTED.

SECTION 300

- THE CONTRACTOR MAY ELECT TO USE ANY OF THE FOLLOWING MATERIALS TO MEET THE REQUIREMENTS OF ITEM 302007 - GRADED AGGREGATE BASE COURSE, TYPE 'B':
 - CRUSHED STONE (PER STANDARD SPECIFICATION 821)
 - CRUSHED CONCRETE (PER STANDARD SPECIFICATION 821)
 - HOT-MIX MILLINGS (PER SPECIAL PROVISION 302514 MILLED HOT-MIX BASE COURSE)

THE CONTRACTOR WILL NOT BE ALLOWED TO MIX DIFFERENT MATERIALS (OR SIMILAR MATERIALS FROM DIFFERENT SOURCES) TO MEET THE REQUIREMENTS OF ITEM 302007 - GRADED AGGREGATE BASE COURSE, TYPE 'B'.

ALL OF THE ABOVE LISTED MATERIALS ARE PERMITTED FOR USE ON THE JOB, PROVIDED THEY ARE SEPARATED INTO APPROVED AREAS. EACH AREA OF BASE COURSE MUST BE CONSTRUCTED USING MATERIALS FROM A SINGLE SOURCE, FULL DEPTH, IN ORDER THAT PROPER TESTING MAY BE ACCOMPLISHED. THE CONTRACTOR AND DELDOT'S PROJECT ENGINEER SHALL AGREE ON THE LIMITS OF EACH SOURCE OF MATERIAL PRIOR TO PLACEMENT.
- THE QUANTITY USED FOR BASE OF EACH OF THE ABOVE LISTED MATERIALS WILL BE THE CONTRACTOR'S CHOICE, WITH THE TOTAL MEETING THE ADVERTISED QUANTITY OF ITEM 302007 - GRADED AGGREGATE BASE COURSE, TYPE 'B'.
- THE CONTRACTOR MAY ALSO ELECT TO RECYCLE MILLINGS FOR USE IN HOT-MIX AS PERMITTED BY THE STANDARD SPECIFICATIONS. THE CHOICE OF THE QUANTITY OF MILLINGS USED FOR THIS PURPOSE, OR FOR BASE COURSE, LIES WITH THE CONTRACTOR. ALL MILLING MATERIAL SHALL BECOME PROPERTY OF THE CONTRACTOR.
- HOT-MIX MILLINGS MAY BE GENERATED FROM THE FOLLOWING SOURCES:
 - MATERIAL MILLED ON THIS CONTRACT AT THE CONTRACTOR'S CHOICE UNDER ITEM 202000 - EXCAVATION AND EMBANKMENT.
 - MILLED MATERIAL FURNISHED ON THE JOB FROM THE CONTRACTOR'S YARD OR OTHER OUTSIDE SOURCE. ALL MILLED MATERIALS SHALL MEET THE MATERIAL REQUIREMENTS OF ITEM 302514 - MILLED HOT-MIX BASE COURSE.

SECTION 200 (CONTINUED)

- ITEMS TO BE REMOVED UNDER ITEM 211000 REMOVAL OF STRUCTURES AND OBSTRUCTIONS SHALL INCLUDE: WALLS, PILLARS, TRAFFIC SIGNAL POLES, FOUNDATIONS, FENCES, POSTS, MAILBOXES, AND ANY OTHER VISIBLE OBSTRUCTIONS WITHIN THE LIMITS OF CONSTRUCTION THAT ARE NOT PAID FOR UNDER OTHER BID ITEMS.



\\CONSHOHOCKEN.NA.AECOM\NET\PROJECTS\TRANSPORTATION\NEW CASTLE\30N ROAD\T20101301\PLANS\CP\IND1_2C.DGN



ADDENDUMS / REVISIONS	
▲ SEC 200 NOTE 13	DRB

NOT TO SCALE

SUMMIT BRIDGE ROAD AND ARMSTRONG CORNER ROAD INTERSECTION IMPROVEMENTS

CONTRACT	BRIDGE NO.	
T20101301	DESIGNED BY:	JH
COUNTY	CHECKED BY:	MT
NEW CASTLE		

NOTES

PN01
SHEET NO.
4
TOTAL SHTS.
197

DRAINAGE PIPE SCHEDULE						
NO.	SIZE / TYPE	CLASS	LENGTH	SLOPE	INT. EL.	DIS. EL.
37	18" DIP	52	94.0'	0.0022	63.07	62.86
39	18" DIP	52	94.0'	0.0022	63.05	62.85
41	24" RCP	V	75.0'	0.0020	62.35	62.20

ROADWAY CORE SCHEDULE			
NO.	STATION	OFFSET	DESCRIPTION
9	125+28.03	-8.76	7.5" HOT-MIX ASPHALT OVER 1.5" ST

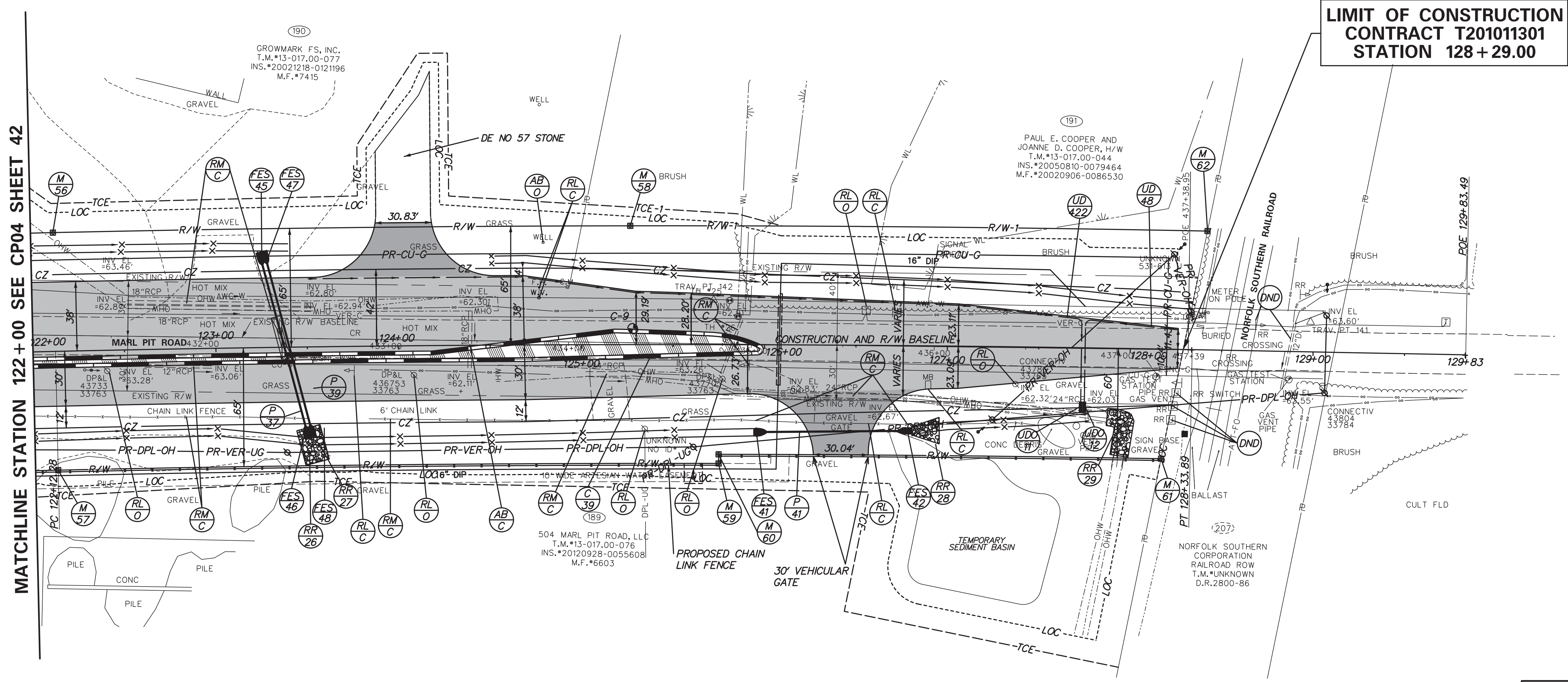
FLARED END SECTION SCHEDULE			
NO.	SIZE / TYPE	SLOPE	SAFETY GRATE
41	24" RCP	0.0020	NO
42	24" RCP	0.0020	NO
45	18" CORR. POLY.	0.0020	NO
46	18" CORR. POLY.	0.0020	NO
47	18" CORR. POLY.	0.0020	NO
48	18" CORR. POLY.	0.0020	NO

RIPRAP SCHEDULE		
NO.	SIZE / TYPE	AREA
26	R-4	14.3 SY
27	R-4	14.3 SY
28	R-4	15.8 SY
29	R-4	32.0 SY

UNDERDRAIN OUTLETS		
NO.	LENGTH	DIS. EL.
11	46.80	62.50
12	46.60	62.50

CURB SCHEDULE		
NO.	ITEM DESCRIPTION / TYPE	LENGTH
39	P. C. C. CURB, TYPE 2	804.00

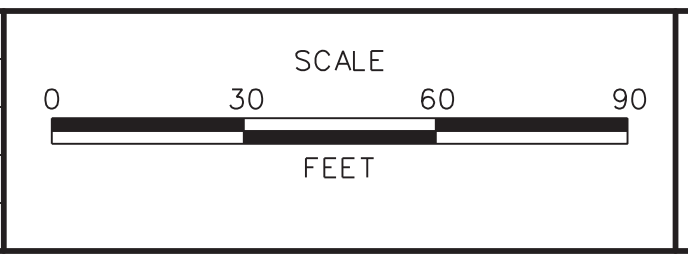
UTILITY TEST HOLE SCHEDULE						
NO.	UTILITY	STATION	OFFSET	GRND EL.	COVER	O. D. & MATERIAL
TH-25	WATER	125+80.90	-24.20	64.96	4.30	16" DIP
TH-26	COM	125+85.50	-15.50	65.07	2.47	1" PLASTIC



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DELAWARE DEPARTMENT OF TRANSPORTATION

ADDENDUMS / REVISIONS	
▲ FES MATERIAL REVISED	DRB



SUMMIT BRIDGE ROAD AND ARMSTRONG CORNER ROAD INTERSECTION IMPROVEMENTS

CONTRACT	BRIDGE NO.	
T201011301	DESIGNED BY:	JL
COUNTY	CHECKED BY:	MT
NEW CASTLE		

CONSTRUCTION PLAN	
SHEET NO.	51
TOTAL SHTS.	197