

**State of Delaware**  
**Department of Transportation**  
**Project No: T200911301**

**Desc: US 301, NORFOLK SOUTHERN RR TO SR 896**

Item	Description	UOM	Quantity
201000	CLEARING AND GRUBBING	LS	1.00
202000	EXCAVATION AND EMBANKMENT	CY	874,981.00
202505	SETTLEMENT PLATFORM	EACH	8.00
202505	SETTLEMENT PLATFORM	EACH	2.00
202518	SETTLEMENT MONUMENT	EACH	2.00
202555	SUBSOIL TILLAGE	SY	379,221.00
202561	WETLAND MITIGATION BERM	CY	3,710.00
202572	BORROW AREA EROSION & SEDIMENT CONTROL &	LS	1.00
207000	EXCAVATION AND BACKFILL FOR STRUCTURES	CY	400.00
207000	EXCAVATION AND BACKFILL FOR STRUCTURES	CY	470.00
207000	EXCAVATION AND BACKFILL FOR STRUCTURES	CY	2,980.00
208000	EXCAVATION AND BACKFILLING FOR PIPE TRE	CY	1,570.00
209002	BORROW, TYPE B	CY	4,279.00
211521	ABANDONMENT OF WELLS	EACH	8.00
302007	GRADED AGGREGATE BASE COURSE, TYPE B	CY	2,286.00
302007	GRADED AGGREGATE BASE COURSE, TYPE B	CY	343.00
302011	DELAWARE NO. 3 STONE	TON	877.00
302011	DELAWARE NO. 3 STONE	TON	31.00
302012	DELAWARE NO. 57 STONE	TON	119.00
302012	DELAWARE NO. 57 STONE	TON	11.00
304501	PERMEABLE TREATED BASE, 4"	SY	71,946.00
304502	SOIL CEMENT BASE COURSE, 6"	SY	70,088.00
304506	PORTLAND CEMENT	TON	1,247.00
401801	BIT CONC, SP, TY C, 160 GYRA, PG 64-22 (	TON	623.00
401819	BIT CONC, SP, BCBC, 160 GYRA, PG 64-22	TON	225.00
501006	PORTLAND CEMENT CONCRETE PAVEMENT, 12"	SY	71,777.00
602001	PORT CEMENT CONCRETE MASONRY, CLASS A	CY	29.00
602001	PORT CEMENT CONCRETE MASONRY, CLASS A	CY	31.00
602002	PORT CEMENT CONCRETE MASONRY, CLASS B	CY	53.00
602002	PORT CEMENT CONCRETE MASONRY, CLASS B	CY	58.00
602004	PCC MASONRY, ABUTMENT FOOTING, CLASS B	CY	278.00
602013	P.C.C. MASONRY, SUPERSTRUCTURE CLASS D	CY	509.00
602014	P.C.C. MASONRY APPROACH SLAB, CLASS D	CY	428.00
602015	PCC MASONRY, ABUT ABOVE FOOTING, CLASS A	CY	410.00
602017	P.C.C. MASONRY, PARAPET, CLASS A	CY	109.00
602772	MECHANICALLY STABILIZED EARTH WALLS	LS	1.00
602772	MECHANICALLY STABILIZED EARTH WALLS	LS	1.00
603000	BAR REINFORCEMENT	LB	36,900.00
604000	BAR REINFORCEMENT, EPOXY COATED	LB	8,772.00

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604000	BAR REINFORCEMENT, EPOXY COATED	LB	9,000.00
604000	BAR REINFORCEMENT, EPOXY COATED	LB	265,150.00
605501	GRND MOUNT BREAKAWAY SIGN SUPPRT & FND	LS	1.00
605512	PREFABRICATED EXPANSION JOINT SYSTEM, 4"	LF	90.00
608000	COARSE AGGR FOR FND STAB & SUBFND BCKFL	TON	123.00
608000	COARSE AGGR FOR FND STAB & SUBFND BCKFL	TON	162.00
612021	REINFORCED CONCRETE PIPE, 15", CLASS IV	LF	4,174.00
612022	REINFORCED CONCRETE PIPE, 18", CLASS IV	LF	1,850.00
612023	REINFORCED CONCRETE PIPE, 24", CLASS IV	LF	589.00
612033	REINFORCED CONCRETE PIPE, 21", CLASS IV	LF	32.00
612215	REINFORCED CONCRETE ELLIPTICAL PIPE, 38"	LF	190.00
612216	REINFORCED CONCRETE ELLIPTICAL PIPE, 14"	LF	253.00
612221	REINFORCED CONCRETE ELLIPTICAL PIPE, 48"	LF	237.00
612229	REIN CONC ELLIP PIPE, 53"X83", CLASS IV	LF	190.00
617002	R.C. FLARED END SECTION, 15"	EACH	3.00
617003	R.C. FLARED END SECTION, 18"	EACH	16.00
617004	R.C. FLARED END SECTION, 21"	EACH	2.00
617005	R.C. FLARED END SECTION, 24"	EACH	6.00
617165	R.C. FLARED END SECTION, 14"X23"	EACH	3.00
618062	STEEL H PILES, HP 14 X 73	LF	5,220.00
618065	STEEL H TEST PILES, HP 14 X 73	LF	220.00
618081	FURNISH PRECAST PRESTRESSED CONCRETE PIL	LF	3,480.00
618091	FURNISH PRECAST PRESTRESSED CONCRETE TES	LF	160.00
619042	INSTALL STEEL H PILES, HP 14 X 73	LF	5,220.00
619045	INSTALL STEEL H TEST PILES, HP 14 X 73	LF	220.00
619061	INSTALL PRECAST PRESTRESSED CONCRETE PIL	LF	3,480.00
619067	INSTALL PRECAST PRESTRESSED CONCRETE TES	LF	160.00
619501	PRODUCTION PILE RESTRIKE	EACH	1.00
619502	TEST PILE RESTRIKE	EADY	1.00
619519	DYNAMIC PILE TESTING BY CONTRACTOR	EACH	8.00
619539	SIGNAL MATCHING ANALYSIS BY CONTRACTOR	EACH	8.00
623003	PRESTRESS REIN CONC MEMBERS, BULB T BEAM	LS	1.00
701016	IPCC CURB & GUTTER, TYPE 1-4	LF	3,983.00
707005	UNDERDRAIN OUTLET	EACH	50.00
708050	DRAINAGE INLET, 34" X 18"	EACH	3.00
708051	DRAINAGE INLET, 34" X 24"	EACH	14.00
708052	DRAINAGE INLET, 48" X 30"	EACH	23.00
708111	MANHOLE, 48" X 30"	EACH	2.00
712005	RIPRAP, R-4	SY	405.00

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712006	RIPRAP, R-5	SY	870.00
712020	RIPRAP, R-4	TON	87.00
712021	RIPRAP, R-5	TON	130.00
712022	RIPRAP, R-6	TON	114.00
712022	RIPRAP, R-6	TON	128.00
712531	CHANNEL BED FILL	CY	167.00
712531	CHANNEL BED FILL	CY	25.00
712551	RIFFLE GRADE CONTROL MATERIAL	CY	60.00
713002	GEOTEXTILES, SEPARATION	SY	7,142.00
713003	GEOTEXTILES, RIPRAP	SY	1,547.00
713003	GEOTEXTILES, RIPRAP	SY	87.00
715001	PERFORATED PIPE UNDERDRAINS, 6"	LF	19,676.00
715001	PERFORATED PIPE UNDERDRAINS, 6"	LF	212.00
715500	UNDERDRAIN OUTLET PIPE, 6"	LF	1,830.00
715502	TEMPORARY DRAINAGE PIPE, 30"	LF	200.00
715506	TEMPORARY DRAINAGE PIPE, 24"	LF	280.00
715507	TEMPORARY DRAINAGE PIPE, 36"	LF	500.00
720050	GALVANIZED STEEL BEAM GUARDRAIL, TY 1-31	LF	4,513.00
720559	POST MOUNTED DELINEATORS	EACH	165.00
720585	GUARDRAIL END TREATMENT ATTEN.,TY 1-31	EACH	6.00
725001	GUARDRAIL TO BARRIER CONN. (EXIT TY 31)	EACH	4.00
725002	G/R TO BARR. CONN., APPROACH TY 1-31	EACH	6.00
726001	END ANCHORAGE 31	EACH	4.00
727000	RIGHT-OF-WAY FENCE	LF	19,440.00
727001	RIGHT-OF-WAY FENCE GATE	EACH	16.00
727014	CONSTRUCTION SAFETY FENCE	LF	11,378.00
727552	RESOURCE PROTECTION FENCE	LF	15,531.00
735501	HERBICIDE APPLICATION, NOXIOUS WEEDS	ACRE	50.00
737523	PLANTINGS	LS	1.00
737525	LIVE STEM STAKING	EACH	1,256.00
743000	MAINTENANCE OF TRAFFIC	LS	1.00
743023	TEMPORARY BARRICADES, TYPE III	LFDY	16,440.00
743024	TEMPORARY WARNING SIGNS AND PLAQUES	EADY	1,644.00
743050	FLAGGER, NEW CASTLE COUNTY	HOUR	4,320.00
743062	FLAGGER, NEW CASTLE COUNTY, STATE, OVERT	HOUR	864.00
744506	CONDUIT JUNCTION WELL, TYPE 7, PRECAST	EACH	6.00
744531	CONDUIT JUNCTION WELL, TYPE 14, PRECAST	EACH	12.00
745604	FURNISH & INSTALL UP TO 4" SCHEDULE 80 P	LF	9,300.00
746596	JUNCTION BOX ON STRUCTURE	EACH	2.00

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Item	Description	UOM	Quantity
748502	RAISED/RECESSED PAVEMENT MARKER	EACH	240.00
748548	PERM PAVT STRIPING, EPOXY, 5"	LF	38,500.00
748557	PERM PVMT STRIPING, EPOXY RESIN PAINT, B	LF	19,300.00
748566	RETROREF PREFORM PATT MARKINGS, 8"	LF	4,850.00
749500	SIGN PANEL	SF	418.00
749687	INSTALLATION OR REMOVAL OF TRAFFIC SIGN	EACH	2.00
749690	INSTALLATION OR REMOVAL OF TRAFFIC SIGNS	SF	100.00
760017	RUMBLE STRIPS, CONCRETE	LF	34,090.00
762001	SAW CUTTING, BITUMINOUS CONCRETE	LF	64.00
763000	INITIAL EXPENSE	LS	1.00
763501	CONSTRUCTION ENGINEERING	LS	1.00
763502	MAINTENANCE OF RAILROAD TRAFFIC	LS	1.00
763508	PROJECT CONTROL SYSTEM DEVELOPMENT PLN	LS	1.00
763509	CPM SCHEDULE UPDATES AND/OR REVISIONS	EAMO	28.00
905001	SILT FENCE	LF	39,841.00
905002	REINFORCED SILT FENCE	LF	4,360.00
905003	SEDIMENT TRAP	CY	6,575.00
905004	INLET SEDIMENT CONTROL, DRAINAGE INLET	EACH	41.00
906001	PORTABLE SEDIMENT TANK	EACH	1.00
906003	SUMP PIT	EACH	10.00
906004	SKIMMER DEWATERING DEVICE	EACH	4.00
907011	STONE CHECK DAM	TON	15.00
907013	TEMPORARY SLOPE DRAIN, 18"	LF	525.00
907500	TEMPORARY SWALE, TYPE A-1	LF	1,929.00
907504	PERIMETER DIKE/SWALE, TYPE A-1	LF	4,165.00
908009	TOPSOILING, 4" DEPTH	SY	6.00
908009	TOPSOILING, 4" DEPTH	SY	7.00
908010	TOPSOILING, 6" DEPTH	SY	200,385.00
908012	TOPSOILING, 12" DEPTH	SY	336,690.00
908014	PERMANENT GRASS SEEDING, DRY GROUND	SY	159,634.00
908015	PERMANENT GRASS SEEDING, WET GROUND	SY	9,305.00
908017	TEMPORARY GRASS SEEDING	SY	1,518,436.00
908019	STREAMBANK SEED MIX, SEEDING	SY	128.00
908020	EROSION CONTROL BLANKET MULCH	SY	88,656.00
908023	STABILIZED CONSTRUCTION ENTRANCE	TON	163.00
908501	NATIVE GRASS SEEDING, NO MOW MIX	SY	397,459.00
908502	WET GROUND EROSION CONTROL GRASS SEEDING	SY	2,824.00
908503	WETLAND MITIGATION GRASS SEEDING	SY	19,722.00
909002	SANDBAG DIVERSION	CF	860.00

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Item	Description	UOM	Quantity
909006	STILLING WELL	CY	7.00
910004	CLAY BORROW, CUT-OFF TRENCH	CY	245.00
910006	OUTLET STRUCTURE	EACH	4.00
910009	INFILTRATION TRENCH	LF	800.00

**DRAFT**  
**NOT FOR BIDDING**  
**AUGUST 2015**