

**Engineers Estimate
of Probable
Construction Costs**

Atlanta District
Hwy: IH 30
CSJ: 0610-03-095

Prepared by: Pape-Dawson Engineers
6/7/2024
90% Estimate

Item No	Description	Unit	Quantity	Unit Cost	Total Cost
0100-6002	PREPARING ROW	STA	68.4	\$1,500.00	\$102,600.00
0104-6023	REMOVING CONC (CTB)	LF	165	\$20.00	\$3,300.00
0104-6054	REMOVING CONCRETE(MOW STRIP)	LF	485	\$25.00	\$12,125.00
0110-6001	EXCAVATION (ROADWAY)	CY	31,491	\$17.50	\$551,092.50
0110-6002	EXCAVATION (CHANNEL)	CY	60	\$20.00	\$1,200.00
0132-6001	EMBANKMENT (FINAL)(ORD COMP)(TY A)	CY	22,726	\$17.00	\$386,342.00
0164-6001	BROADCAST SEED (PERM) (RURAL) (SANDY)	SY	43,894	\$0.35	\$15,362.90
0164-6009	BROADCAST SEED (TEMP) (WARM)	SY	10,975	\$0.40	\$4,390.00
0164-6011	BROADCAST SEED (TEMP) (COOL)	SY	10,975	\$0.40	\$4,390.00
0168-6001	VEGETATIVE WATERING	MG	880	\$26.00	\$22,880.00
0247-6053	FL BS (CMP IN PLC)(TYD GR1-2)(FNAL POS)	CY	700	\$85.00	\$59,500.00
0275-6001	CEMENT	TON	618	\$300.00	\$185,400.00
0275-6010	CEMENT TREAT (SUBGRADE) (8")	SY	40,892	\$4.50	\$184,014.00
0310-6009	PRIME COAT (MC-30)	GAL	10,227	\$6.00	\$61,362.00
0316-6017	ASPH (AC-20-5TR)	GAL	2,560	\$8.00	\$20,480.00
0316-6222	AGGR(TY-PB GR-3 SAC-B)	CY	73	\$300.00	\$21,900.00
0354-6045	PLANE ASPH CONC PAV (2")	SY	3,714	\$6.00	\$22,284.00
0360-6021	CONC PVMT (JOINTED - CPCD) (11")	SY	32,769	\$90.00	\$2,949,210.00
0400-6010	STRUCT EXCAV (SPECIAL)	CY	875	\$85.00	\$74,375.00
0401-6001	FLOWABLE BACKFILL	CY	43	\$650.00	\$27,950.00
0402-6001	TRENCH EXCAVATION PROTECTION	LF	1,188	\$5.00	\$5,940.00
0416-6004	DRILL SHAFT (36 IN)	LF	1,080	\$350.00	\$378,000.00
0416-6026	DRILL SHAFT (HIGH MAST POLE)(60 IN)	LF	96	\$1,000.00	\$96,000.00
0416-6029	DRILL SHAFT (RDWY ILL POLE)(30 IN)	LF	210	\$350.00	\$73,500.00
0420-6037	CL C CONC (COLUMN)	CY	40.4	\$1,800.00	\$72,720.00
0420-6071	CL C CONC (COLLAR)	EA	3	\$2,000.00	\$6,000.00
0420-6128	CL K CONC (MISC)	CY	147.6	\$2,500.00	\$369,000.00
0432-6001	RIPRAP (CONC)(4 IN)	CY	489.0	\$475.00	\$232,275.00
0432-6031	RIPRAP (STONE PROTECTION)(12 IN)	CY	8.0	\$250.00	\$2,000.00
0432-6036	RIPRAP (STONE PROTECTION)(30 IN)	CY	56	\$275.00	\$15,400.00
0432-6045	RIPRAP (MOW STRIP)(4 IN)	CY	49	\$678.00	\$33,222.00
0442-6007	STR STEEL (MISC NON - BRIDGE)	LB	5,510	\$17.00	\$93,670.00
0450-6048	RAIL (HANDRAIL)(TY B)	LF	411	\$200.00	\$82,200.00
0464-6003	RC PIPE (CL III) (18 IN)	LF	94	\$150.00	\$14,100.00
0464-6005	RC PIPE (CL III) (24 IN)	LF	164	\$150.00	\$24,600.00
0464-6008	RC PIPE (CL III) (36 IN)	LF	738	\$225.00	\$166,050.00
0464-6009	RC PIPE (CL III) (42 IN)	LF	389	\$300.00	\$116,700.00
0465-6022	INLET (COMPL)(PCO) (5FT)(LEFT)	EA	3	\$12,000.00	\$36,000.00
0465-6024	INLET (COMPL)(PCO) (5FT)(BOTH)	EA	1	\$15,000.00	\$15,000.00
0465-6558	INL(CMP)(PAZD-CZ)(FG)(3FTX3FT-3FTX3FT)	EA	1	\$7,000.00	\$7,000.00
0465-6561	INL(CMP)(PAZD-CZ)(FG)(5FTX5FT-3FTX3FT)	EA	2	\$11,500.00	\$23,000.00
0467-6001	SET (PIPE RUNNER ASSEMBLY)	EA	2	\$10,000.00	\$20,000.00
0467-6363	SET (TY II) (18 IN) (RCP)(6: 1) (P)	EA	2	\$1,800.00	\$3,600.00
0467-6394	SET (TY II) (24 IN) (RCP) (6: 1) (C)	EA	1	\$2,700.00	\$2,700.00
0467-6450	SET (TY II) (36 IN) (RCP) (4: 1) (C)	EA	1	\$4,700.00	\$4,700.00
0467-6466	SET (TY II)(42 IN) (RCP) (6: 1) (P)	EA	1	\$8,500.00	\$8,500.00
0471-6003	GRATE & FRAME	EA	90	\$1,500.00	\$135,000.00
0481-6023	PIPE (PVC) (SCH 80) (6 IN)	LF	600	\$100.00	\$60,000.00
0496-6004	REMOV STR (SET)	EA	2	\$100.00	\$200.00
0496-6006	REMOV STR (HEADWALL)	EA	8	\$1,800.00	\$14,400.00
0496-6007	REMOV STR (PIPE)	LF	102	\$30.00	\$3,060.00
0496-6041	REMOV STR (LARGE)	EA	1	\$27,500.00	\$27,500.00
0500-6001	MOBILIZATION	LS	1	\$1,211,601.00	\$1,211,601.00
0502-6001	BARRICADES, SIGNS AND TRAFFIC HANDLING	MO	12	\$5,000.00	\$60,000.00
0506-6001	ROCK FILTER DAMS (INSTALL) (TY 1)	LF	245	\$50.00	\$12,250.00
0506-6011	ROCK FILTER DAMS (REMOVE)	LF	245	\$15.00	\$3,675.00
0506-6020	CONSTRUCTION EXITS (INSTALL) (TY 1)	SY	112	\$30.00	\$3,360.00
0506-6024	CONSTRUCTION EXITS (REMOVE)	SY	112	\$9.00	\$1,008.00
0506-6038	TEMP SEDMT CONT FENCE (INSTALL)	LF	30	\$7.00	\$210.00
0506-6039	TEMP SEDMT CONT FENCE (REMOVE)	LF	30	\$4.00	\$120.00
0506-6040	BIODEG EROSN CONT LOGS (INSTL) (8")	LF	403	\$8.00	\$3,224.00
0506-6043	BIODEG EROSN CONT LOGS (REMOVE)	LF	403	\$4.00	\$1,612.00
0512-6001	PORT CTB (FUR & INST)(SGL SLOPE)(TY 1)	LF	4,680	\$65.00	\$304,200.00
0512-6025	PORT CTB (MOVE)(SGL SLP)(TY 1)	LF	3,240	\$20.00	\$64,800.00
0512-6049	PORT CTB (REMOVE)(SGL SLP)(TY 1)	LF	4,680	\$15.00	\$70,200.00
0529-6002	CONC CURB (TY II)	LF	2,516	\$22.00	\$55,352.00
0529-6020	CONC CURB & GUTTER (ARMOR CURB)	LF	140	\$500.00	\$70,000.00
0531-6001	CONC SIDEWALKS (4")	SY	1,632	\$75.00	\$122,400.00
0531-6005	CURB RAMPS (TY 2)	EA	4	\$3,000.00	\$12,000.00
0531-6009	CURB RAMPS (TY 6)	EA	1	\$2,500.00	\$2,500.00
0531-6032	CONC SIDEWALKS (SPECIAL) (TYPE A)	SY	94	\$300.00	\$28,200.00
0536-6002	CONC MEDIAN	SY	193	\$200.00	\$38,600.00
0540-6001	MTL W-BEAM GD FEN (TIM POST)	LF	875	\$30.00	\$26,250.00

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0542-6001	REMOVE METAL BEAM GUARD FENCE	LF	425	\$10.00	\$4,250.00
0542-6003	REMOVE DOWNSTREAM ANCHOR TERMINAL	EA	1	\$250.00	\$250.00
0542-6004	RM MTL BM GD FENCE TRANS (THRIE-BEAM)	EA	1	\$250.00	\$250.00
0544-6001	GUARDRAIL END TREATMENT (INSTALL)	EA	2	\$2,500.00	\$5,000.00
0545-6003	CRASH CUSH ATTEN (MOVE & RESET)	EA	1	\$2,000.00	\$2,000.00
0545-6005	CRASH CUSH ATTEN (REMOVE)	EA	2	\$1,500.00	\$3,000.00
0545-6019	CRASH CUSH ATTEN (INSTL)(S)(N)(TL3)	EA	2	\$12,000.00	\$24,000.00
0550-6001	CHAIN LINK FENCE (INSTALL) (6')	LF	384	\$40.00	\$15,360.00
0550-6011	CHAIN LINK FENCE GATE (INSTALL)(6'X4')	EA	4	\$1,100.00	\$4,400.00
0550-6013	CHAIN LINK FENCE GATE (INSTALL)(6'X10')	EA	4	\$1,200.00	\$4,800.00
0556-6008	PIPE UNDERDRAINS (TY 8) (6")	LF	2,585	\$60.00	\$155,100.00
0610-6009	REMOVE RD IL ASM (TRANS-BASE)	EA	22	\$1,200.00	\$26,400.00
0610-6288	IN RD IL (TY SA) 50T-10 (400W EQ) LED	EA	21	\$6,000.00	\$126,000.00
0613-6005	HI MST IL POLE (150 FT)(80 MPH)	EA	3	\$62,000.00	\$186,000.00
0618-6021	CONDT (PVC) (SCH 40) (1 1/2")	LF	495	\$11.12	\$5,506.00
0618-6027	CONDT (PVC) (SCH 40) (2 1/2")	LF	33	\$13.00	\$429.00
0618-6046	CONDT (PVC)(SCH 80) (2")	LF	10,325	\$15.00	\$154,875.00
0618-6047	CONDT (PVC) (SCH 80) (2") (BORE)	LF	214	\$28.00	\$5,992.00
0618-6064	CONDT (RM) (1")	LF	1	\$39.49	\$39.49
0618-6066	CONDT (RM) (1 1/4")	LF	22	\$50.00	\$1,100.00
0618-6070	CONDT (RM) (2")	LF	1,200	\$35.00	\$42,000.00
0618-6072	CONDT (RM) (2 1/2")	LF	12	\$101.97	\$1,223.62
0620-6007	ELEC CONDR (NO.8) BARE	LF	7,392	\$2.00	\$14,784.00
0620-6008	ELEC CONDR (NO.8) INSULATED	LF	14,784	\$2.00	\$29,568.00
0620-6009	ELEC CONDR (NO.6) BARE	LF	534	\$1.91	\$1,019.35
0620-6015	ELEC CONDR (NO.2) BARE	LF	6	\$2.00	\$12.00
0620-6018	ELEC CONDR (NO.1) INSULATED	LF	1,584	\$5.68	\$8,991.10
0620-6029	ELEC CONDR (350 KCMIL) INSULATED	LF	264	\$21.44	\$5,661.26
0624-6001	GROUND BOX TY A (122311)	EA	1	\$950.00	\$950.00
0624-6002	GROUND BOX TY A (122311)W/APRON	EA	29	\$1,500.00	\$43,500.00
0628-6011	ELC SRV TY A 120/240 060(NS)SS(E)TP(O)	EA	1.0	\$8,500.00	\$8,500.00
0628-6040	ELC SRV TY A 240/480 060(NS)SS(E)EX(O)	EA	2	\$10,000.00	\$20,000.00
0636-6002	ALUMINUM SIGNS (TY G)	SF	133	\$50.00	\$6,625.00
0644-6001	IN SM RD SN SUP&AM TY10BWG(1)SA(P)	EA	3	\$850.00	\$2,550.00
0644-6004	IN SM RD SN SUP&AM TY10BWG(1)SA(T)	EA	1	\$950.00	\$950.00
0644-6037	IN SM RD SN SUP&AM TYS80(1)SA(U-WC)	EA	1	\$1,400.00	\$1,400.00
0644-6060	IN SM RD SN SUP&AM TYTWT(1)WS(P)	EA	4	\$1,000.00	\$4,000.00
0647-6001	INSTALL LRSS (STRUCT STEEL)	LB	870	\$10.00	\$8,700.00
0647-6003	REMOVE LRSA	EA	3	\$1,500.00	\$4,500.00
0658-6062	INSTL DEL ASSM (D-SW)SZ 1(BRF)GF2(BI)	EA	10	\$42.00	\$420.00
0658-6081	INSTL DEL ASSM (D-SW)SZ 1(WFLX)GND(BI)	EA	34	\$50.00	\$1,700.00
0662-6057	WK ZN PAV MRK REMOV (TRAF BTN) TY W	LF	10,264	\$3.00	\$30,792.00
0666-6018	REFL PAV MRK TY I (W)6"(DOT)(100MIL)	LF	390	\$2.00	\$780.00
0666-6036	REFL PAV MRK TY I (W)8"(SLD)(100MIL)	LF	4,792	\$1.00	\$4,792.00
0666-6042	REFL PAV MRK TY I (W)12"(SLD)(100MIL)	LF	730	\$4.00	\$2,920.00
0666-6048	REFL PAV MRK TY I (W)24"(SLD)(100MIL)	LF	2,563	\$8.00	\$20,504.00
0666-6090	REF PAV MRK TY I (W)(MED NOSE)(100MIL)	EA	6	\$300.00	\$1,800.00
0666-6225	PAVEMENT SEALER 6"	LF	20,027	\$0.50	\$10,013.50
0666-6226	PAVEMENT SEALER 8"	LF	4,792	\$0.60	\$2,875.20
0666-6228	PAVEMENT SEALER 12"	LF	730	\$0.70	\$511.00
0666-6230	PAVEMENT SEALER 24"	LF	2,563	\$3.00	\$7,689.00
0666-6233	PAVEMENT SEALER (MED NOSE)	EA	6	\$100.00	\$600.00
0666-6241	PAVEMENT SEALER (SYMBOL)	EA	2	\$200.00	\$400.00
0666-6306	RE PM W/RET REQ TY I (W)6"(BRK)(100MIL)	LF	2,470	\$1.00	\$2,470.00
0666-6309	RE PM W/RET REQ TY I (W)6"(SLD)(100MIL)	LF	12,919	\$1.00	\$12,919.00
0666-6321	RE PM W/RET REQ TY I (Y)6"(SLD)(100MIL)	LF	4,248	\$1.00	\$4,248.00
0668-6010	PREFAB PAV MRK TY B (W)(6")(BRK)CNTST	LF	648	\$20.00	\$12,960.00
0668-6090	PREFAB PAV MRK TY C (W) (SYMBOL)	EA	2	\$300.00	\$600.00
0672-6010	REFL PAV MRKR TY II-C-R	EA	433	\$5.00	\$2,165.00
0677-6002	ELIM EXT PAV MRK & MRKS (6")	LF	2,140	\$1.00	\$2,140.00
0678-6002	PAV SURF PREP FOR MRK (6")	LF	20,027	\$1.00	\$20,027.00
0678-6004	PAV SURF PREP FOR MRK (8")	LF	4,792	\$1.20	\$5,750.40
0678-6006	PAV SURF PREP FOR MRK (12")	LF	730	\$1.50	\$1,095.00
0678-6008	PAV SURF PREP FOR MRK (24")	LF	2,563	\$2.50	\$6,407.50
0678-6021	PAV SURF PREP FOR MRK (SYMBOL)	EA	2	\$5.00	\$10.00
0678-6024	PAV SURF PREP FOR MRK (MED NOSE)	EA	6	\$5.00	\$30.00
0682-6003	VEH SIG SEC (12")LED(YEL)	EA	4	\$375.00	\$1,500.00
0685-6001	INSTALL RDSB FLASH BEACON ASSEMBLY	EA	2	\$6,000.00	\$12,000.00
0752-6015	TREE AND BRUSH REMOVAL	AC	1.79	\$10,000.00	\$17,900.00
3021-6001	WIDE FLANGE PAVEMENT TERMINALS	LF	44	\$600.00	\$26,400.00
3076-6066	TACK COAT	GAL	2,562	\$5.00	\$12,810.00
3077-6051	SP MIXES SP-D PG70-22	TON	10,826	\$160.00	\$1,732,112.00
3077-6064	SP MIXES SP-D PG76-22	TON	687	\$160.00	\$109,952.00

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4020-6001	PERMEABLE CONCRETE EDGE DRAIN	LF	2,585	\$75.00	\$193,875.00
5084-6001	FIXED BOLLARD	EA	10	\$1,200.00	\$12,000.00
5086-6001	PRE-ENGINEERED METAL BUILDING/CANOPY	LS	2	\$500,000.00	\$1,000,000.00
6079-6003	AUTO PORT SMRT TRF MONITOR SYS (PLAN 2)	DAY	45	\$500.00	\$22,500.00
6156-6002	LED HI MST IL ASM(6 FIXT)(ASYM)(TY A)	EA	3	\$50,000.00	\$150,000.00
6185-6002	TMA (STATIONARY)	DAY	10	\$300.00	\$3,000.00
6185-6005	TMA (MOBILE OPERATION)	DAY	10	\$350.00	\$3,500.00
				Subtotal	\$12,657,292.32
				Contingency (5%)	\$632,864.62
				Total	\$13,290,156.93