

Estimate SPRUCE AVE BR.

Estimated Cost:\$3,926,795.61

Contingency: 9.30%

Estimated Total: \$4,291,987.60

Contingency=0% uncertainty+9.3% inflation=9.3%

Base Date: 09/27/24

Spec Year: 23

Unit System: E

Work Type: BRIDGE REPLACEMENT

Highway Type:

Urban/Rural Type: URBAN CLASS

Season: SUMMER

County: SHELBY

Latitude of Midpoint: 401625

Longitude of Midpoint: 840951

District: 07

Federal/State Project Number: PID 114201

Estimate Type: Final

Prepared by Joe Mellman on 09/27/24

Checked by Joe Espelage on 09/27/24

Approved by Dan Springer on 09/27/24

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<u>Line #</u>	<u>Item Number</u>	<u>Quantity</u>	<u>Units</u>	<u>Unit Price</u>	<u>Extension</u>
<u>Description</u>					
<u>Supplemental Description</u>					

Group 0100: Roadway

0005	201E11000 CLEARING AND GRUBBING	1.000	LS	\$25,000.00000	\$25,000.00
0006	202E23000 PAVEMENT REMOVED, ASPHALT	2,616.000	SY	\$12.46997	\$32,621.44
0007	202E30000 WALK REMOVED	6,375.000	SF	\$1.41066	\$8,992.96
0008	202E32000 CURB REMOVED	926.000	FT	\$8.00000	\$7,408.00
0009	203E10000 EXCAVATION	263.000	CY	\$28.23727	\$7,426.40
0010	203E20000 EMBANKMENT	2,137.000	CY	\$20.00000	\$42,740.00
0011	204E10000 SUBGRADE COMPACTION	2,972.000	SY	\$2.80130	\$8,325.46
0012	606E26500 ANCHOR ASSEMBLY, TYPE T	4.000	EACH	\$954.16110	\$3,816.64
0013	606E35000 BRIDGE TERMINAL ASSEMBLY, TYPE 1	2.000	EACH	\$1,801.83644	\$3,603.67
0014	606E35100 BRIDGE TERMINAL ASSEMBLY, TYPE 2	2.000	EACH	\$472.41582	\$944.83
0015	608E10000 4" CONCRETE WALK	6,399.000	SF	\$8.62729	\$55,206.03
0016	608E52000 CURB RAMP	886.000	SF	\$25.04047	\$22,185.86
0017	609E98000 COMBINATION CURB AND GUTTER, TYPE 2 CITY OF SIDNEY CURB AND GUTTER, TYPE 2	727.000	FT	\$35.00000	\$25,445.00
0018	609E26000 CURB, TYPE 6	619.000	FT	\$34.95168	\$21,635.09
0019	202E32500 CURB REMOVED	670.000	FT	\$6.10342	\$4,089.29
0020	202E75610 VALVE BOX REMOVED	5.000	EACH	\$225.41550	\$1,127.08
0021	204E45000 PROOF ROLLING	1.500	HOURL	\$169.97288	\$254.96
0022	606E15050 GUARDRAIL, TYPE MGS	75.000	FT	\$27.16732	\$2,037.55

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0023	623E40000	2.000	EACH	\$1,165.80084	\$2,331.60
MONUMENT ASSEMBLY REMOVED AND RESET					
0024	690E98200	96.000	SF	\$41.00000	\$3,936.00
SPECIAL - MISC.: REMOVE AND RECONSTRUCT EXISTING BRICK DRIVEWAY					
0025	202E58000	1.000	EACH	\$864.75198	\$864.75
MANHOLE REMOVED					

Total for Group 0100:\$279,992.61

Group 0200: Erosion Control

0026	659E10000	5,181.000	SY	\$3.00000	\$15,543.00
SEEDING AND MULCHING					
0027	832E15000	1.000	LS	\$5,000.00000	\$5,000.00
STORM WATER POLLUTION PREVENTION PLAN					
0028	832E30000	20,000.000	EACH	\$1.00000	\$20,000.00
EROSION CONTROL					
0029	659E00300	576.000	CY	\$24.84921	\$14,313.14
TOPSOIL					
0030	659E14000	260.000	SY	\$1.09821	\$285.53
REPAIR SEEDING AND MULCHING					
0031	659E15000	260.000	SY	\$0.70718	\$183.87
INTER-SEEDING					
0032	659E20000	0.730	TON	\$753.93270	\$550.37
COMMERCIAL FERTILIZER					
0033	659E31000	1.080	ACRE	\$39.58368	\$42.75
LIME					
0034	659E35000	30.000	MGAL	\$2.67766	\$80.33
WATER					

Total for Group 0200:\$55,998.99

Group 0300: Drainage

0035	605E14000	1,272.000	FT	\$15.90009	\$20,224.91
6" BASE PIPE UNDERDRAINS					
0036	611E04400	292.000	FT	\$150.00000	\$43,800.00
12" CONDUIT, TYPE B					
0037	611E04600	164.000	FT	\$140.00000	\$22,960.00

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12" CONDUIT, TYPE C					
0038	611E99900	4.000	EACH	\$3,500.00000	\$14,000.00
DRAINAGE STRUCTURE, MISC.: CITY OF SIDNEY, TYPE 1					
0039	611E98470	3.000	EACH	\$3,000.00000	\$9,000.00
CATCH BASIN, NO. 2-2B					
0040	895E10010	2.000	EACH	\$15,270.76769	\$30,541.54
MANUFACTURED WATER QUALITY STRUCTURE, TYPE 1					
0041	611E99574	5.000	EACH	\$5,196.73674	\$25,983.68
MANHOLE, NO. 3					
0042	611E99580	2.000	EACH	\$9,397.74509	\$18,795.49
MANHOLE, NO. 3 WITH 84" BASE I.D. AND 6" WEIR					
0043	611E99660	3.000	EACH	\$2,052.45603	\$6,157.37
MANHOLE RECONSTRUCTED TO GRADE					
0044	602E20000	1.000	CY	\$2,533.36891	\$2,533.37
CONCRETE MASONRY					
0045	611E01500	70.000	FT	\$19.55263	\$1,368.68
6" CONDUIT, TYPE F					

Total for Group 0300:\$195,365.04

Group 0400: Pavement

0046	304E20000	731.000	CY	\$80.00000	\$58,480.00
AGGREGATE BASE					
0047	407E20000	242.000	GAL	\$3.79881	\$919.31
NON-TRACKING TACK COAT					
0048	442E10000	85.000	CY	\$325.00000	\$27,625.00
ASPHALT CONCRETE SURFACE COURSE, 12.5 MM, TYPE A (446)					
0049	442E10100	185.000	CY	\$300.00000	\$55,500.00
ASPHALT CONCRETE INTERMEDIATE COURSE, 19 MM, TYPE A (446)					
0050	452E10050	91.000	SY	\$107.50300	\$9,782.77
6" NON-REINFORCED CONCRETE PAVEMENT, CLASS QC MS					
0051	441E70500	6.000	CY	\$633.10968	\$3,798.66
ASPHALT CONCRETE SURFACE COURSE, TYPE 1, (449), (DRIVEWAYS)					

Total for Group 0400:\$156,105.74

Group 0500: Water Works

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<u>Description</u>					
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0052	638E01200	586.000	FT	\$520.00000	\$304,720.00
8" WATER MAIN DUCTILE IRON PIPE ANSI CLASS 52, PUSH-ON JOINT S AND FITTINGS					
0053	638E07300	107.000	FT	\$560.00000	\$59,920.00
16" STEEL PIPE ENCASEMENT, BORED OR JACKED					
0054	638E07480	4.000	EACH	\$3,000.00000	\$12,000.00
6" GATE VALVE					
0055	638E10400	1.000	EACH	\$1,899.59987	\$1,899.60
FIRE HYDRANT ADJUSTED TO GRADE					
0056	638E10480	1.000	EACH	\$941.96424	\$941.96
FIRE HYDRANT REMOVED					
0057	638E10800	13.000	EACH	\$466.99851	\$6,070.98
VALVE BOX ADJUSTED TO GRADE					
0058	638E20694	1.000	EACH	\$7,000.00000	\$7,000.00
SPECIAL - 8" X 8" TAPPING SLEEVE, VALVE AND VALVE BOX					

Total for Group 0500:\$392,552.54

Group 0600: Traffic Control

0059	630E03100	70.000	FT	\$15.41979	\$1,079.39
GROUND MOUNTED SUPPORT, NO. 3 POST					
0060	630E08520	28.000	FT	\$15.25187	\$427.05
STREET NAME SIGN SUPPORT, NO. 3 POST					
0061	630E08600	5.000	EACH	\$55.12073	\$275.60
SIGN POST REFLECTOR					
0062	630E80100	31.250	SF	\$26.67477	\$833.59
SIGN, FLAT SHEET					
0063	630E80500	4.000	EACH	\$449.69144	\$1,798.77
SIGN, DOUBLE FACED, STREET NAME					
0064	630E84900	9.000	EACH	\$21.48777	\$193.39
REMOVAL OF GROUND MOUNTED SIGN AND DISPOSAL					
0065	630E86002	7.000	EACH	\$23.23374	\$162.64
REMOVAL OF GROUND MOUNTED POST SUPPORT AND DISPOSAL					
0066	644E00300	0.170	MILE	\$9,552.27926	\$1,623.89
CENTER LINE					
0067	644E00500	62.000	FT	\$10.04772	\$622.96
STOP LINE					
0068	644E00600	226.000	FT	\$4.71371	\$1,065.30

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CROSSWALK LINE

Total for Group 0600:\$8,082.58

Group 0700: Structures Over 20 Foot Span

0069	202E11002	1.000	LS	\$130,000.00000	\$130,000.00
STRUCTURE REMOVED, OVER 20 FOOT SPAN					
0070	202E23500	323.000	SY	\$16.30980	\$5,268.07
WEARING COURSE REMOVED					
0071	503E11100	1.000	LS	\$65,000.00000	\$65,000.00
COFFERDAMS AND EXCAVATION BRACING					
0072	503E21300	1.000	LS	\$75,000.00000	\$75,000.00
UNCLASSIFIED EXCAVATION					
0073	505E11100	1.000	LS	\$30,000.00000	\$30,000.00
PILE DRIVING EQUIPMENT MOBILIZATION					
0074	507E00600	3,790.000	FT	\$15.66579	\$59,373.34
14" CAST-IN-PLACE REINFORCED CONCRETE PILES, DRIVEN					
0075	507E00650	4,250.000	FT	\$75.00000	\$318,750.00
14" CAST-IN-PLACE REINFORCED CONCRETE PILES, FURNISHED					
0076	509E10000	161,510.000	LB	\$1.61679	\$261,127.75
EPOXY COATED REINFORCING STEEL					
0077	511E33501	4.000	EACH	\$2,900.00000	\$11,600.00
SEMI-INTEGRAL DIAPHRAGM GUIDE, AS PER PLAN					
0078	511E34446	259.000	CY	\$1,056.00428	\$273,505.11
CLASS QC2 CONCRETE WITH QC/QA, BRIDGE DECK					
0079	511E42012	186.000	CY	\$1,000.00000	\$186,000.00
CLASS QC1 CONCRETE WITH QC/QA, PIER ABOVE FOOTINGS					
0080	511E43512	390.000	CY	\$605.79566	\$236,260.31
CLASS QC1 CONCRETE WITH QC/QA, ABUTMENT INCLUDING FOOTING					
0081	511E46510	65.000	CY	\$583.68850	\$37,939.75
CLASS QC1 CONCRETE, FOOTING					
0082	512E10050	572.000	SY	\$13.48729	\$7,714.73
SEALING OF CONCRETE SURFACES (NON-EPOXY)					
0083	512E10100	534.000	SY	\$26.82193	\$14,322.91
SEALING OF CONCRETE SURFACES (EPOXY-URETHANE)					
0084	513E10261	259,239.000	LB	\$2.20000	\$570,325.80
STRUCTURAL STEEL MEMBERS, LEVEL 3, AS PER PLAN					
0085	513E20000	2,850.000	EACH	\$5.06698	\$14,440.89
WELDED STUD SHEAR CONNECTORS					
0086	516E11210	72.000	FT	\$647.53506	\$46,622.52
STRUCTURAL EXPANSION JOINT INCLUDING ELASTOMERIC STRIP SEAL					
0087	516E13600	14.000	SF	\$11.67909	\$163.51
1" PREFORMED EXPANSION JOINT FILLER					
0088	516E13900	122.000	SF	\$12.14376	\$1,481.54

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2" PREFORMED EXPANSION JOINT FILLER					
0089	516E14020	108.000	FT	\$30.81780	\$3,328.32
SEMI-INTEGRAL ABUTMENT EXPANSION JOINT SEAL					
0090	516E44100	10.000	EACH	\$1,307.86331	\$13,078.63
ELASTOMERIC BEARING WITH INTERNAL LAMINATES AND LOAD PLATE (NEOPRENE) 13" x 14" x 2.4184" WITH 14" X 15"x 2" LOAD PLATE					
0091	516E44100	10.000	EACH	\$1,307.86331	\$13,078.63
ELASTOMERIC BEARING WITH INTERNAL LAMINATES AND LOAD PLATE (NEOPRENE) 13" x 14" x 2.4184" WITH 14" X 22"x1.5" LOAD PLATE					
0092	516E44100	5.000	EACH	\$1,307.86331	\$6,539.32
ELASTOMERIC BEARING WITH INTERNAL LAMINATES AND LOAD PLATE (NEOPRENE) 13" x 19" x 2.4184" WITH 14" X 20"x 2" LOAD PLATE					
0093	516E44100	5.000	EACH	\$1,307.86331	\$6,539.32
ELASTOMERIC BEARING WITH INTERNAL LAMINATES AND LOAD PLATE (NEOPRENE) 13" x 19" x 2.4184" WITH 14" X 26"x 2" LOAD PLATE					
0094	517E75120	310.000	FT	\$224.98307	\$69,744.75
RAILING (CONCRETE PARAPET WITH TWIN STEEL TUBE RAILING)					
0095	517E76300	96.000	FT	\$120.00000	\$11,520.00
RAILING, MISC.:					
0096	518E21200	224.000	CY	\$96.06105	\$21,517.68
POROUS BACKFILL WITH GEOTEXTILE FABRIC					
0097	518E40000	215.000	FT	\$10.90728	\$2,345.07
6" PERFORATED CORRUGATED PLASTIC PIPE					
0098	518E40010	78.000	FT	\$15.21496	\$1,186.77
6" NON-PERFORATED CORRUGATED PLASTIC PIPE, INCLUDING SPECIAL S					
0099	523E20000	2.000	EACH	\$3,647.07661	\$7,294.15
DYNAMIC LOAD TESTING					
0100	526E15000	58.000	SY	\$240.00000	\$13,920.00
REINFORCED CONCRETE APPROACH SLABS (T=13")					
0101	526E25000	128.000	SY	\$280.08014	\$35,850.26
REINFORCED CONCRETE APPROACH SLABS (T=15")					
0102	526E90010	58.000	FT	\$164.88120	\$9,563.11
TYPE A INSTALLATION					
0103	530E00200	1.000	LS	\$10,000.00000	\$10,000.00
SPECIAL - STRUCTURES VIBRATION MONITORING					
0104	530E00200	1.000	LS	\$10,000.00000	\$10,000.00
SPECIAL - STRUCTURES PRECONSTRUCTION CONDITION SURVEY					
0105	530E00400	2.000	EACH	\$5,000.00000	\$10,000.00
SPECIAL - STRUCTURES HISTORICAL MARKER, TYPE 1					
0106	530E13000	598.000	SF	\$18.56841	\$11,103.91
SPECIAL - FORM LINER					
0107	601E20000	544.000	SY	\$32.07462	\$17,448.59
CRUSHED AGGREGATE SLOPE PROTECTION					
0108	607E39931	300.000	FT	\$155.00000	\$46,500.00
VANDAL PROTECTION FENCE, 12' CURVED, COATED FABRIC, AS PER P LAN					
0109	625E33000	1.000	EACH	\$9,104.37515	\$9,104.38
STRUCTURE GROUNDING SYSTEM					

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Total for Group 0700:\$2,674,559.12

Group 0720: Walls

0110	203E35120	44.000	CY	\$70.00000	\$3,080.00
GRANULAR MATERIAL, TYPE C					
0111	503E21100	297.000	CY	\$58.00000	\$17,226.00
UNCLASSIFIED EXCAVATION					
0112	518E39800	270.000	FT	\$10.00000	\$2,700.00
4" PERFORATED CORRUGATED PLASTIC PIPE					
0113	518E39900	160.000	FT	\$10.00000	\$1,600.00
4" NON-PERFORATED CORRUGATED PLASTIC PIPE, INCLUDING SPECIAL S					
0114	530E50010	1,615.000	SF	\$35.00000	\$56,525.00
SPECIAL - RETAINING WALL					

Total for Group 0720:\$81,131.00

Group 0735: Maintenance of Traffic

0115	614E11110	40.000	HOURL	\$88.91547	\$3,556.62
LAW ENFORCEMENT OFFICER WITH PATROL CAR FOR ASSISTANCE					
0116	614E12420	1.000	LS	\$10,000.00000	\$10,000.00
DETOUR SIGNING					
0117	410E12000	10.000	CY	\$94.42003	\$944.20
TRAFFIC COMPACTED SURFACE, TYPE A OR B					
0118	614E13000	20.000	CY	\$415.26791	\$8,305.36
ASPHALT CONCRETE FOR MAINTAINING TRAFFIC					
0119	616E10000	7.000	MGAL	\$28.82966	\$201.81
WATER					

Total for Group 0735:\$23,007.99

Group 0750: Incidentals

0120	614E11000	1.000	LS	\$25,000.00000	\$25,000.00
MAINTAINING TRAFFIC					
0121	623E10000	1.000	LS	\$10,000.00000	\$10,000.00
CONSTRUCTION LAYOUT STAKES AND SURVEYING					
0122	624E10000	1.000	LS	\$25,000.00000	\$25,000.00
MOBILIZATION					

Total for Group 0750:\$60,000.00