

Kimley-Horn and Associates, Inc.				Opinion of Probable Construction Cost	
Client: City of Mansfield				Date:	8/26/2024
Project: Intersection Improvements - East Broad St & Wisteria St				Prepared By:	JKD / MMC
KHA No: 061088078				Checked By:	NRE / LRC
Construction Items					
Item No.	Item Description	Quantity	Unit	Unit Price	Item Cost
PAVING IMPROVEMENTS					
P1	Mobilization	1	LS	\$ 100,000.00	\$ 100,000.00
P2	Right-Of-Way Preparation	1	LS	\$ 15,000.00	\$ 15,000.00
P3	SWPPP	1	LS	\$ 10,000.00	\$ 10,000.00
P4	Unclassified Street Excavation	60	CY	\$ 100.00	\$ 6,000.00
P5	Embankment	20	CY	\$ 100.00	\$ 2,000.00
P6	Remove Concrete Pavement	890	SY	\$ 30.00	\$ 26,700.00
P7	Remove Concrete Driveways	210	SY	\$ 15.00	\$ 3,150.00
P8	Remove Concrete Sidewalk & Ramps	140	SY	\$ 10.00	\$ 1,400.00
P9	Remove Concrete Curb & Gutter	40	LF	\$ 10.00	\$ 400.00
P10	Remove Concrete Pavers (Median)	30	SY	\$ 15.00	\$ 450.00
P11	Remove Chain Link Fence	65	LF	\$ 20.00	\$ 1,300.00
P12	Chain Link Fence	50	LF	\$ 100.00	\$ 5,000.00
P13	Topsoil (4" Depth)	180	SY	\$ 5.00	\$ 900.00
P14	Solid Block Sodding	180	SY	\$ 15.00	\$ 2,700.00
P15	7" Reinforced Concrete Pavement with Integral Curb	940	SY	\$ 120.00	\$ 112,800.00
P16	8" Flexible Base	1,000	SY	\$ 25.00	\$ 25,000.00
P17	8" Concrete Driveway Approach & Transition	190	SY	\$ 120.00	\$ 22,800.00
P18	6" Concrete Curb & Gutter	30	LF	\$ 50.00	\$ 1,500.00
P19	Concrete Median Pavers	60	SY	\$ 125.00	\$ 7,500.00
P20	4" Concrete Sidewalk	220	SY	\$ 90.00	\$ 19,800.00
P21	4" Concrete Sidewalk with Integral Curb	140	SY	\$ 110.00	\$ 15,400.00
P22	Concrete Pedestrian Ramp	10	EA	\$ 3,000.00	\$ 30,000.00
P23	Water Valve Box Adjustment	1	EA	\$ 1,000.00	\$ 1,000.00
P24	Signs and Sign Post Assembly	1	EA	\$ 600.00	\$ 600.00
P25	White Traffic Buttons - Single Broken	10	LF	\$ 10.00	\$ 100.00
P26	White Traffic Buttons - Double Solid	380	LF	\$ 15.00	\$ 5,700.00
P27	Yellow Traffic Buttons - Double Solid	180	LF	\$ 15.00	\$ 2,700.00
P28	24" White Pavement Marking - Solid Line	290	LF	\$ 20.00	\$ 5,800.00
P29	White Pavement Marking - Arrow	4	EA	\$ 300.00	\$ 1,200.00
P30	White Pavement Marking - Word	3	EA	\$ 300.00	\$ 900.00
P31	Landscape and Irrigation Restoration Allowance	1	LS	\$ 30,000.00	\$ 30,000.00
P32	Traffic Control	8	MO	\$ 7,500.00	\$ 60,000.00
DRAINAGE					
D1	Remove Storm Curb Inlet	1	EA	\$ 2,000.00	\$ 2,000.00
D2	Remove RCP (24")	12	LF	\$ 20.00	\$ 240.00
D3	Remove RCP (36")	12	LF	\$ 25.00	\$ 300.00
D4	Connect Prop. RCP to Ex. RCP	1	EA	\$ 500.00	\$ 500.00
D5	Recessed Curb Inlet (15')	1	EA	\$ 15,000.00	\$ 15,000.00
D6	24" RCP (Class III)	15	LF	\$ 200.00	\$ 3,000.00
TRAFFIC SIGNALS					
T1	Drill Shaft (Rdwy III Pole) (30 In)	8	LF	\$ 790.00	\$ 6,320.00
T2	Drill Shaft (Trf Sig Pole) (30 In)	11	LF	\$ 475.00	\$ 5,225.00
T3	Drill Shaft (Trf Sig Pole) (36 In)	26	LF	\$ 620.00	\$ 16,120.00
T4	Drill Shaft (Trf Sig Pole) (48 In)	22	LF	\$ 775.00	\$ 17,050.00
T5	Condt (Pvc) (Sch 40) (2")	140	LF	\$ 20.00	\$ 2,800.00
T6	Condt (Pvc) (Sch 40) (4")	265	LF	\$ 40.00	\$ 10,600.00
T7	Condt (Pvc) (Sch 40) (4") (Bore)	385	LF	\$ 55.00	\$ 21,175.00
T8	Condt (Pvc) (Sch 80) (2")	10	LF	\$ 30.00	\$ 300.00
T9	Elec Condr (No.12) Insulated	320	LF	\$ 3.00	\$ 960.00
T10	Elec Condr (No.8) Bare	765	LF	\$ 3.00	\$ 2,295.00
T11	Elec Condr (No.8) Insulated	1,030	LF	\$ 3.00	\$ 3,090.00
T12	Elec Condr (No.6) Insulated	50	EA	\$ 3.00	\$ 150.00
T13	Ground Box Ty D (162922)W/Apron	5	EA	\$ 1,985.00	\$ 9,925.00
T14	Elc Srv Ty D 120/240 070(NS)AL(E)PS(U)	1	EA	\$ 8,000.00	\$ 8,000.00
T15	Install Hwy Trf Sig (System)	1	EA	\$ 54,800.00	\$ 54,800.00
T16	Veh Sig Sec (12")Led(Grn)	9	EA	\$ 450.00	\$ 4,050.00

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T17	Veh Sig Sec (12")Led(Grn Arw)	4	EA	\$ 450.00	\$ 1,800.00
T18	Veh Sig Sec (12")Led(Yel)	9	EA	\$ 450.00	\$ 4,050.00
T19	Veh Sig Sec (12")Led(Yel Arw)	6	EA	\$ 450.00	\$ 2,700.00
T20	Veh Sig Sec (12")Led(Red)	9	EA	\$ 450.00	\$ 4,050.00
T21	Veh Sig Sec (12")Led(Red Arw)	2	EA	\$ 450.00	\$ 900.00
T22	Ped Sig Sec (Led)(Countdown)	6	EA	\$ 1,215.00	\$ 7,290.00
T23	Backplate W/Refl Brdr(3 Sec)Alum	7	LF	\$ 255.00	\$ 1,785.00
T24	Backplate W/Refl Brdr(4 Sec)Alum	2	LF	\$ 235.00	\$ 470.00
T25	Backplate W/Refl Brdr(5 Sec)Alum	2	LF	\$ 205.00	\$ 410.00
T26	Trf Sig Cbl (Ty A)(14 AWG)(5 Condr)	405	LF	\$ 3.00	\$ 1,215.00
T27	Trf Sig Cbl (Ty A)(14 AWG)(7 Condr)	195	LF	\$ 4.00	\$ 780.00
T28	Trf Sig Cbl (Ty A)(14 AWG)(10 Condr)	350	LF	\$ 10.00	\$ 3,500.00
T29	Trf Sig Cbl (Ty A)(14 AWG)(20 Condr)	640	EA	\$ 10.00	\$ 6,400.00
T30	Trf Sig Cbl (Ty C)(12 AWG)(2 Condr)	885	EA	\$ 3.00	\$ 2,655.00
T31	Ins Trf Sig Pl Am(S)1 Arm(28')Lum	1	EA	\$ 15,100.00	\$ 15,100.00
T32	Ins Trf Sig Pl Am(S)1 Arm(40')Lum	1	EA	\$ 25,000.00	\$ 25,000.00
T33	Ins Trf Sig Pl Am(S)1 Arm(48')Lum	1	EA	\$ 30,000.00	\$ 30,000.00
T34	Ins Trf Sig Pl Am(S)1 Arm(55')Lum	1	EA	\$ 42,250.00	\$ 42,250.00
T35	Ped Pole Assembly	2	EA	\$ 3,500.00	\$ 7,000.00
T36	Pedestrian Push Button Pole	1	EA	\$ 2,900.00	\$ 2,900.00
T37	Ped Detect Push Button (Aps)	6	EA	\$ 1,000.00	\$ 6,000.00
T38	Ped Detector Controller Unit	1	EA	\$ 5,000.00	\$ 5,000.00
T39	CCTV Field Equipment (Digital)	1	EA	\$ 9,425.00	\$ 9,425.00
T40	CCTV Mount (Pole)	1	EA	\$ 1,305.00	\$ 1,305.00
T41	BBU System (External Batt Cabinet)	1	EA	\$ 10,120.00	\$ 10,120.00
T42	CAT 5 Ethernet Cable	170	LF	\$ 3.00	\$ 510.00
T43	RVDS (Presence Detection Only)	4	EA	\$ 10,780.00	\$ 43,120.00
				Construction Cost Subtotal:	\$ 937,435.00
				Contingency (+/-) 15%	\$ 141,565.00
				Construction Cost TOTAL:	\$ 1,079,000.00

Basis for Cost Projection:

- ☐ No Design Completed
- ☐ Preliminary Design (90%)
- ☒ Final Design

The Engineer has no control over the cost of labor, materials, equipment, or over the Contractor's methods of determining prices or over competitive bidding or market conditions. Opinions of probable costs provided herein are based on the information known to Engineer at this time and represent only the Engineer's judgment as a design professional familiar with the construction industry. The Engineer cannot and does not guarantee that proposals, bids, or actual construction costs will not vary from its opinions of probable costs.