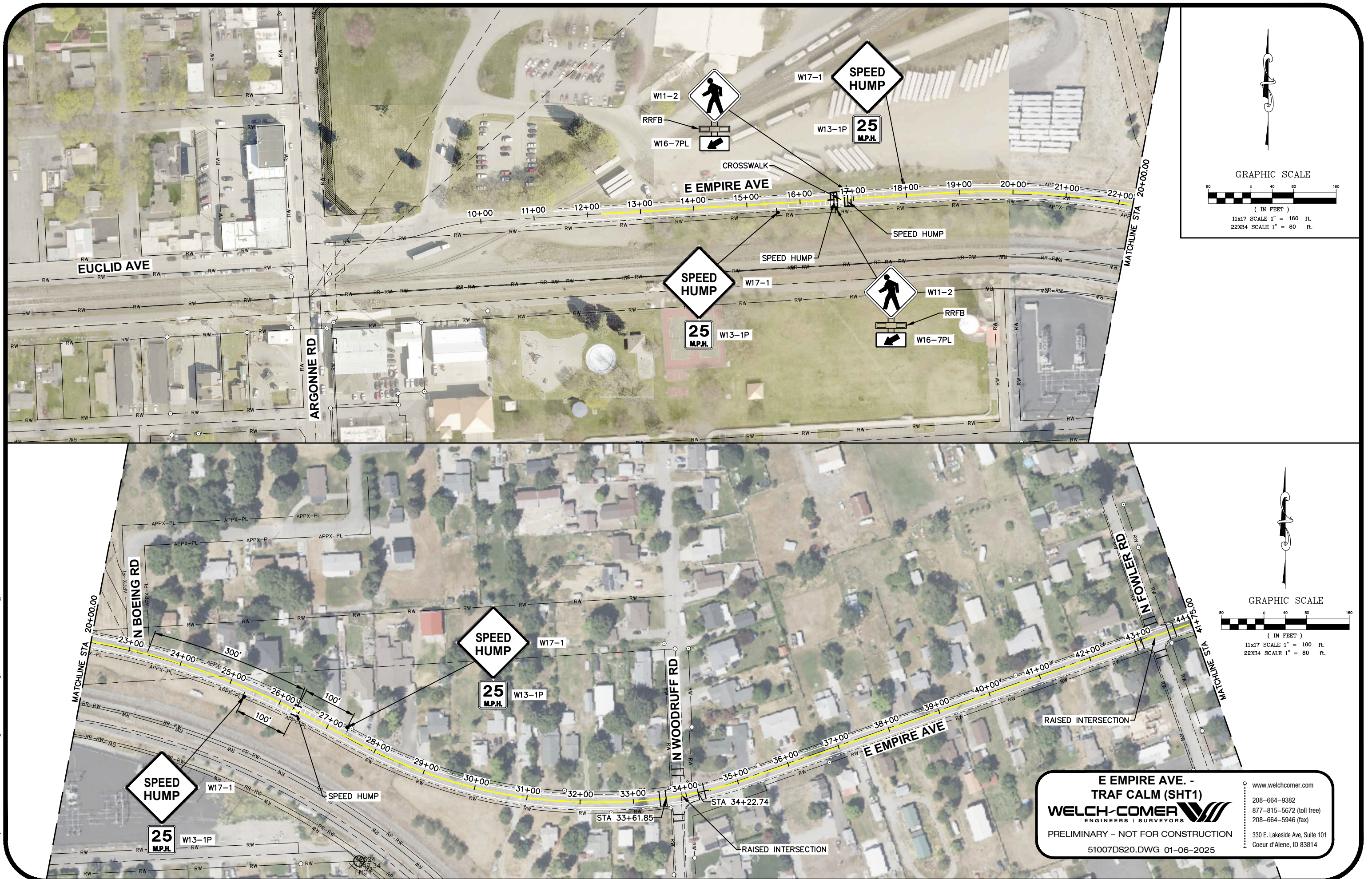
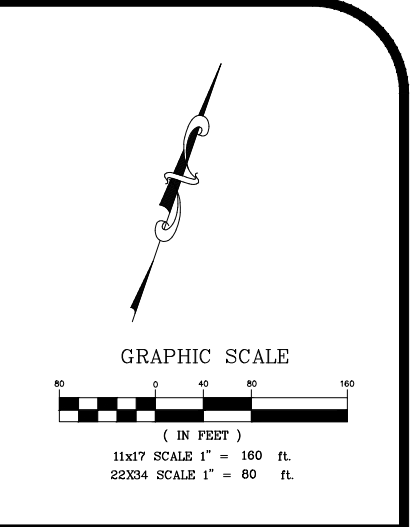


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**E EMPIRE AVE. -
TRAF CALM (SHT2)**

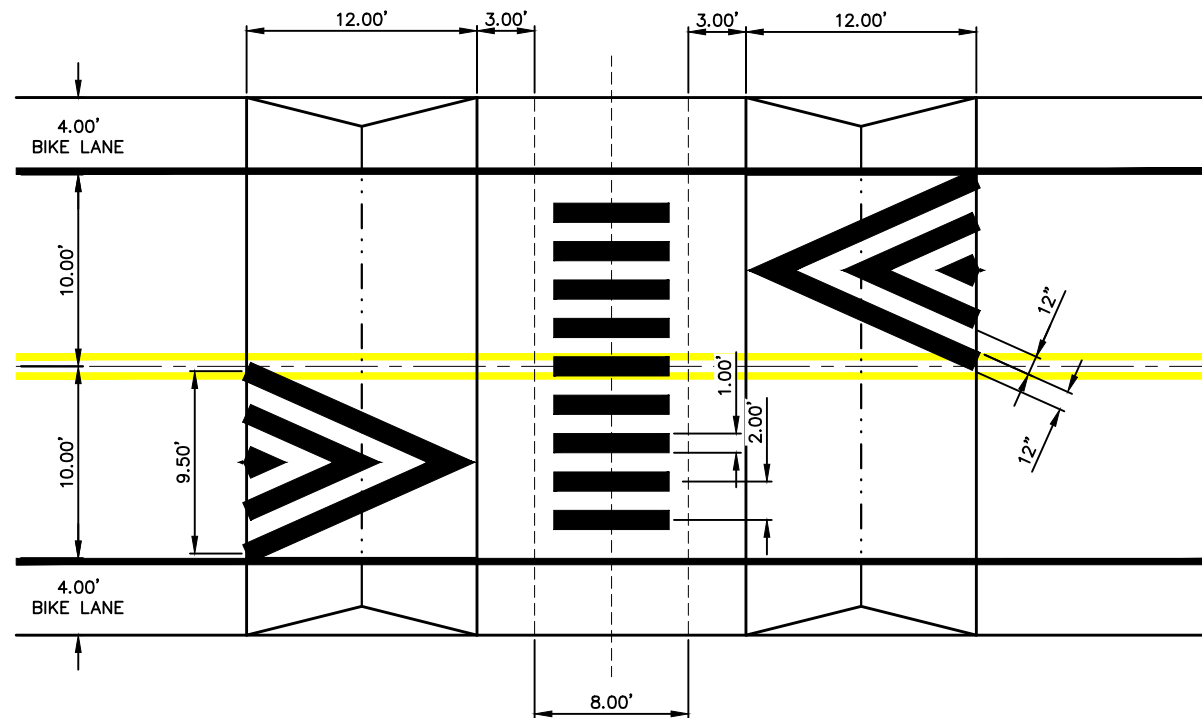
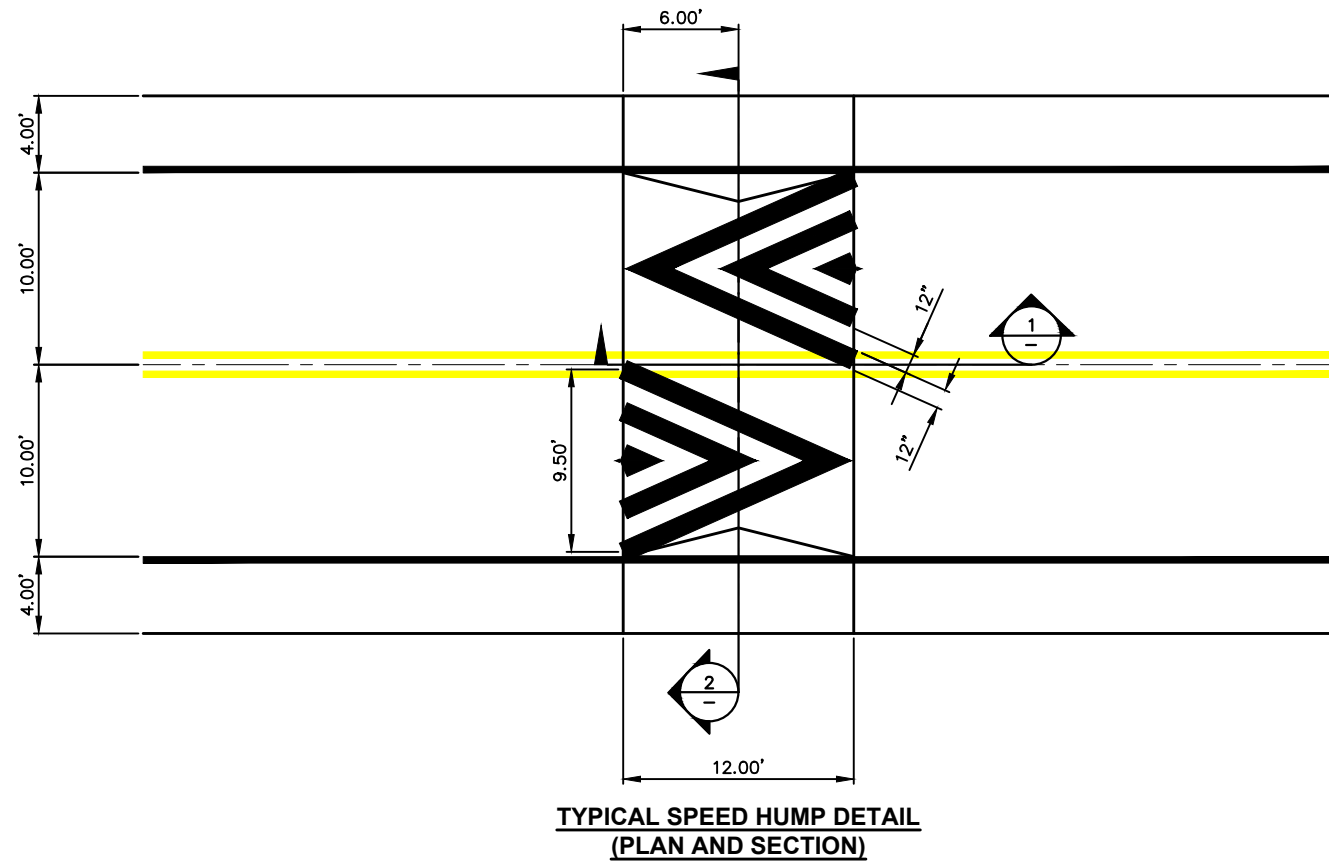
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51007DS20.DWG 12-13-2024

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**DOUBLE SPEED HUMP DETAIL
WITH PROTECTED CROSSWALK (OPTION 1)**

E EMPIRE AVE - TRAF CALM DTL

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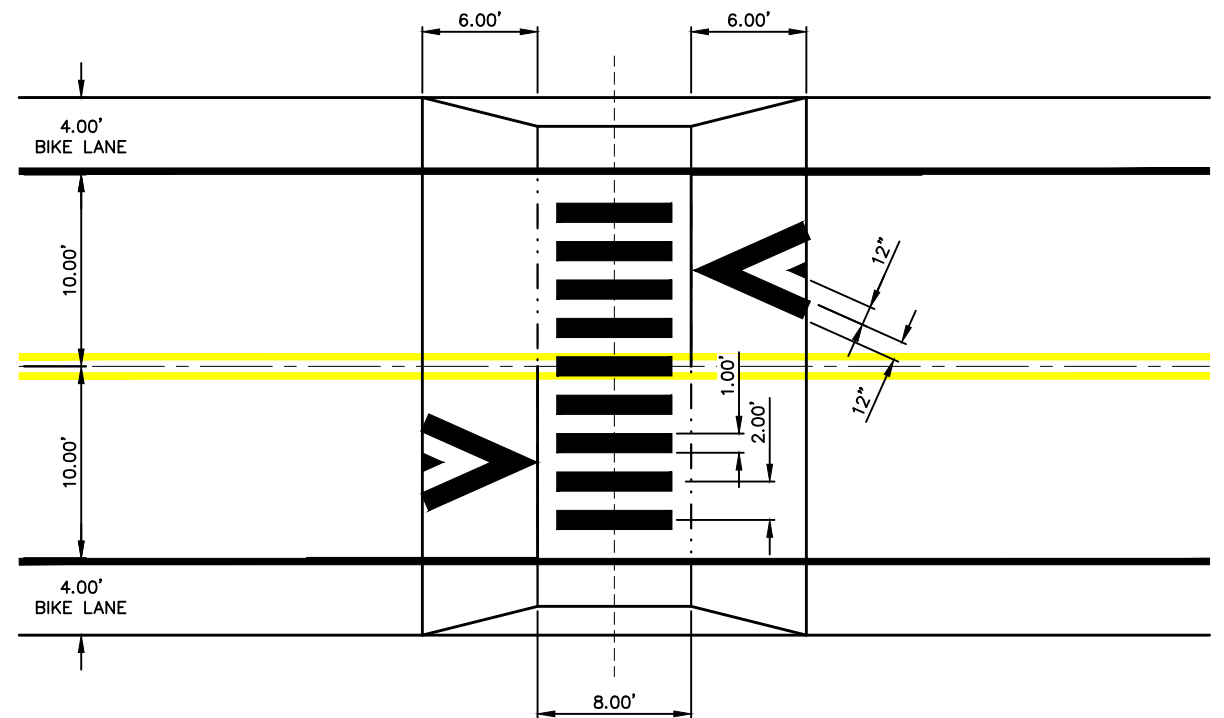
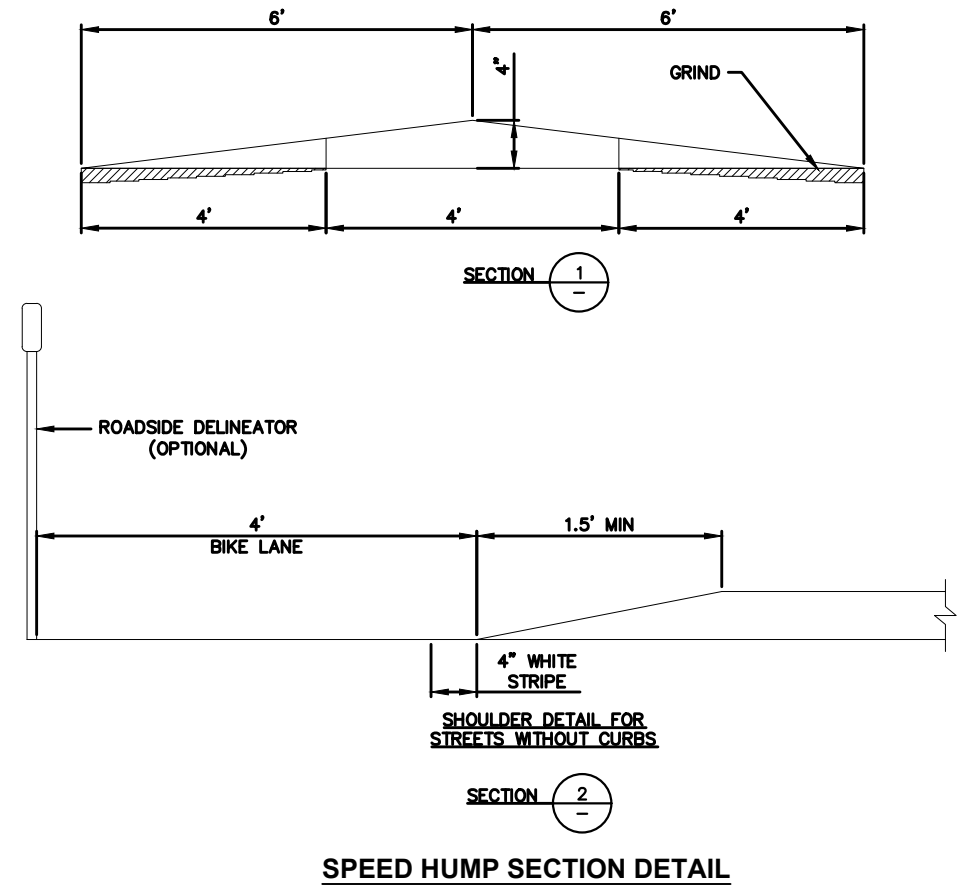
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**TABLE TOP SPEED HUMP DETAIL
WITH PROTECTED CROSSWALK (OPTION 2)**

CITY OF MILLWOOD						
Empire Avenue - Traffic Calming						
ENGINEER'S OPINION OF PRELIMINARY PROJECT COSTS						
Project Manager:		Matt Gillis, P.E.				
Prepared By:		Jordan Tillett / Jonathan Yaude		Date:	1/8/2025	
Item No.	Std. Item	Description	Unit	Estimated Quantity	Unit Cost	Total
Section 1: Preparation						
1		MOBILIZATION	LS	1	\$ 18,555	\$ 18,555
2		STRIPING REMOVAL	LF	0	\$ 1.25	\$ -
3		CONCRETE SAWCUT	LF	0	\$ 14.00	\$ -
4		ASPHALT SAWCUT	LF	0	\$ 11.00	\$ -
5		WEDGE MILLING ASPHALT	SY	20	\$ 140.00	\$ 2,800
Section 2: Grading						
6		EXCAVATION INCL HAUL	CY	0	\$ 25.00	\$ -
Section 14: Hot Mix Asphalt						
7		COMMERCIAL HMA (6") RAISED INTERSECTION	TN	624	\$ 200	\$ 124,800
Section 18: Traffic						
9		RRFB SIGN / CROSSING	LS	0	\$ 38,000	\$ -
10		ASPHALT SPEED HUMPS	EA	0	\$ 1,000	\$ -
11		SHOLDERING WITH 3/4" GRAVEL	LS	1	\$ 10,000	\$ 10,000
12		PAINT - DOUBLE YELLOW LINE	LF	0	\$ 1.75	\$ -
13		PAINT- WHITE LINE	LF	0	\$ 1.00	\$ -
14		PAINT- SPEED HUMP INDICATION	EA	16	\$ 600.00	\$ 9,600
15		PAINT-CROSSWALK	SF	90	\$ 6.00	\$ 540
16		PAINT- WHITE STOP LINE	SF	168	\$ 6.00	\$ 1,008
17		TRAFFIC CONTROL	LS	1	\$ 20,000	\$ 20,000
Section 19: Other Items						
18		MISC STORMWATER (LS)	LS	1	\$ 2,500	\$ 2,500
19		SURVEY MONUMENTS	EA	0	\$ 300	\$ -
20		SIGNS (SPEED HUMP SIGNS)	LS	1	\$ 7,500	\$ 7,500
21	A	UTILITY ADJUSTMENT (SEWER MANHOLES)	EA	4	\$ 500	\$ 2,000
	B	UTILITY ADJUSTMENT (VALVES BOXES)	EA	11	\$ 300	\$ 3,300
	C	UTILITY ADJUSTMENT (STORM INLETS / CATCH BASINS)	EA	3	\$ 500	\$ 1,500
					Construction	\$ 199,303
					Contingency	\$ 29,895
					Construction Total	\$ 229,200
					Design Engineering	\$ 15,000
					Bidding	\$ 6,000
					Construction Engineering	\$ 15,000
					Materials Testing	\$ -
22		Option No.2 - Speed Hump Table Top Protected Crosswalk	LS		\$ 8,000.00	0
					TOTAL	\$ 265,200