



**APPENDIX F**

# ENGINEERING & COST ESTIMATES



## Minnie Street Corridor Study Concept Planning Cost Estimates

Item	Project 1	B	C1	C3	C5
Mob/Demob (5)	\$444,000	\$136,000	\$1,006,000	\$958,000	\$1,545,000
Typical Section (2)	\$1,033,000	\$633,000	\$2,192,000	\$2,061,000	\$2,810,000
Excavation (2)	\$225,000	\$162,844	\$298,000	\$271,000	\$420,000
Fill for Overpass (2)	\$0	\$0	\$937,000	\$1,032,000	\$949,000
Bridge/Overpass Concrete Barrier	\$0	\$0	\$345,000	\$1,380,000	\$1,020,000
Retaining Wall	\$0	\$0	\$2,160,000	\$2,718,000	\$1,521,000
Bridge/Overpass	\$3,000,000	\$0	\$8,784,000	\$5,856,000	\$16,000,000
At Grade Railroad Crossing (1)	\$0	\$1,000,000	\$0	\$1,500,000	\$1,500,000
Lighting	\$59,000	\$65,000	\$93,000	\$83,000	\$123,000
Drainage System	\$632,000	\$200,000	\$200,000	\$200,000	\$300,000
Chain Link Fence (2)	\$0	\$0	\$50,000	\$60,000	\$102,000
New Signalized Intersection	\$0	\$0	\$300,000		
Changes to Signalized Intersection(s)	\$50,000	\$200,000	\$0	\$200,000	\$400,000
Electric/Comm Relocation (UG)	\$1,250,000	\$0	\$0	\$0	\$0
Relocate 69kV GVEA Trans. Lines	\$0	\$0	\$500,000	\$500,000	\$500,000
Water/Sewer Relocation	\$1,154,000	\$0	\$900,000	\$100,000	\$100,000
Construction item Subtotal	\$7,847,000	\$2,396,844	\$17,765,000	\$16,919,000	\$27,290,000
641-646 Pay Items (10%)	\$785,000	\$240,000	\$1,777,000	\$1,692,000	\$2,729,000
Subtotal	\$8,632,000	\$2,636,844	\$19,542,000	\$18,611,000	\$30,019,000
Design Contingency (20%)	\$1,726,000	\$527,000	\$3,908,000	\$3,722,000	\$6,004,000
Inflation (1%/yr) (6)	\$431,600	\$395,527	\$2,931,300	\$2,791,650	\$4,502,850
<b>Engineer's Estimate Subtotal</b>	<b>\$10,789,600</b>	<b>\$3,559,371</b>	<b>\$26,381,300</b>	<b>\$25,124,650</b>	<b>\$40,525,850</b>
Construction Eng. (15%)	\$1,618,000	\$534,000	\$3,957,000	\$3,769,000	\$6,079,000
Construction Contingency (10%)	\$1,079,000	\$356,000	\$2,638,000	\$2,512,000	\$4,053,000
<b>Construction Engineering Subtotal</b>	<b>\$2,697,000</b>	<b>\$890,000</b>	<b>\$6,595,000</b>	<b>\$6,281,000</b>	<b>\$10,132,000</b>
ROW Acquisition - FULL (3,4)	\$0	\$2,000,000	\$0	\$130,000	\$0
ROW Acquisition - PARTIAL (3,4)	\$420,000	\$500,000	\$420,000	\$130,000	\$450,000
Business Relocations (3)	\$0		\$4,900,000	\$3,200,000	\$2,680,000
<b>ROW Subtotal</b>	<b>\$420,000</b>	<b>\$2,500,000</b>	<b>\$5,320,000</b>	<b>\$3,460,000</b>	<b>\$3,130,000</b>
<b>Total Planning Level Cost Estimate</b>	<b>\$13,907,000</b>	<b>\$6,949,000</b>	<b>\$38,296,000</b>	<b>\$34,866,000</b>	<b>\$53,788,000</b>

*Footnotes:*

(1) At Grade crossing based on University Avenue

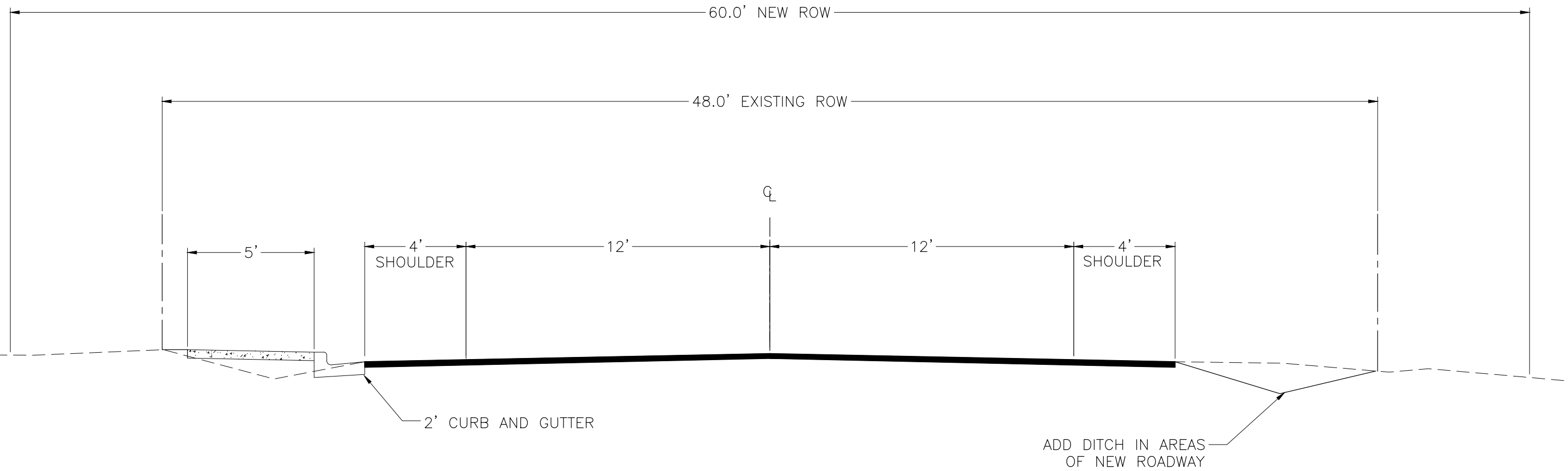
(2) Includes the pedestrian path for Concept C1, C3

(3) Full Acquisition: ROW cost estimate is for land/improvement acquisition, relocation, and estimated ROW staff labor.

It does not include temporary interest costs (e.g. TCE)

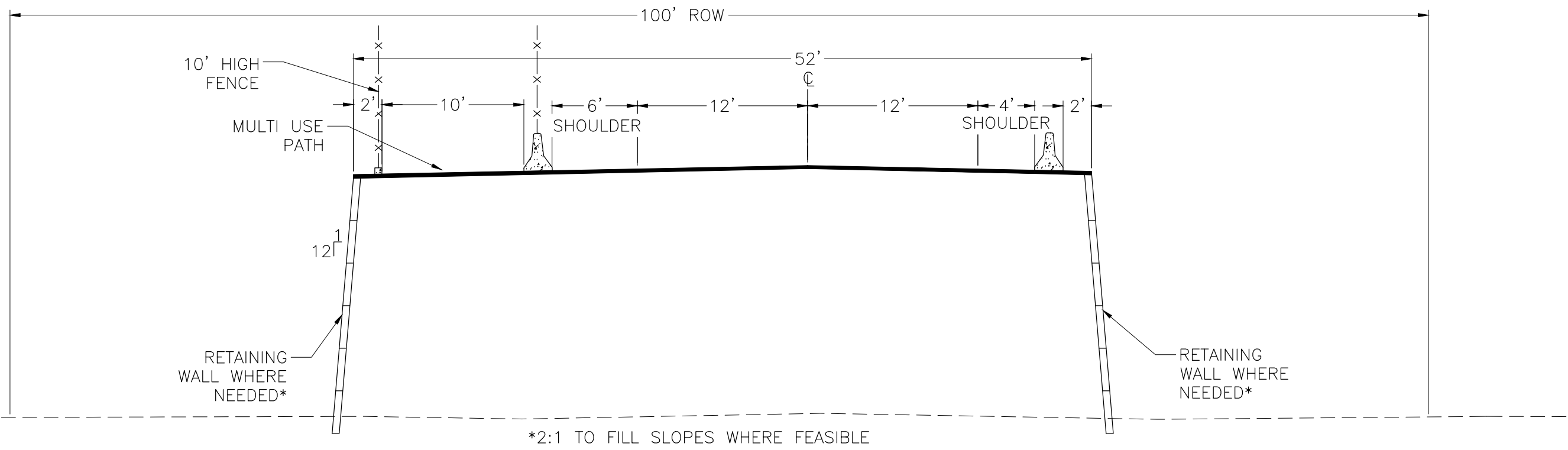
(4) Estimated land costs are based on FNSB tax assessed values

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**CONCEPT B - PHILLIPS FIELD ROAD CONNECTION**

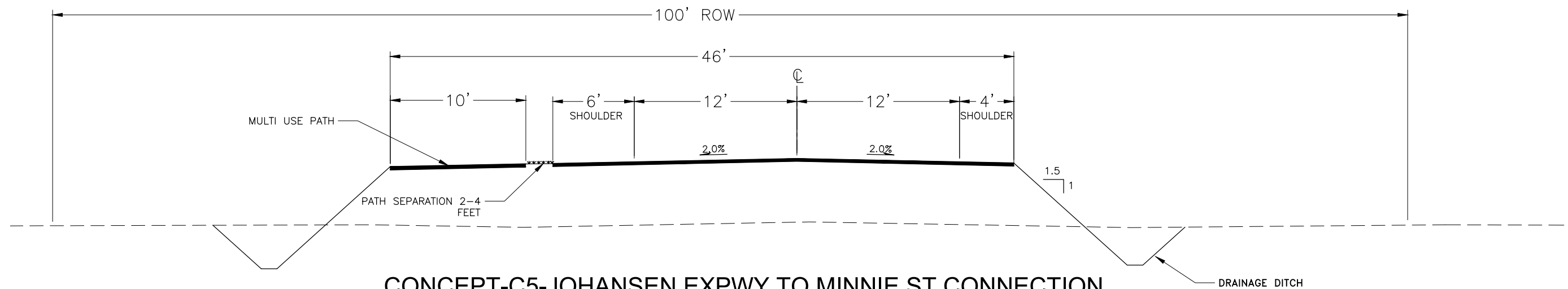
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**CONCEPT C - JOHANSEN EXPRESSWAY CONNECTION**  
**(ELEVATED ROADWAY FOR OVERPASS)**

NTS

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### CONCEPT-C5-JOHANSEN EXPWY TO MINNIE ST CONNECTION

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(RAILROAD CROSSING AT-GRADE. SEE C1/C3 FOR OVERPASS OPTION.)