

Conceptual Cost Estimate
SUMMARY
Version 2.0

Project I.D.	1130-31-00		
Highway	US 41		
Project Title	US 41 Expansion (Winnebago, Outagamie, and Brown Co.)		
Project Limits	USH 41 & CTH E/Ballard Road Interchange		
Project Type	Urban	Topography	Moderate
Project Duration	Multi	Soil Type	Coarse-grained
Current Year	2019	Start Construction	2048
Start Preliminary Design	2043	End Construction	2052
Alternative #:	Planning Study		

[Project Scope](#)
[Project Assumptions](#)

ITEM DESCRIPTION	UNIT	QUANTITY	UNIT PRICE	Total	NOTES
MAJOR ROADWAY ITEMS	Bid Express Inst.	Estimator Inst.			
Removing Pavement	SY	67,200	\$ 5.00	\$336,000	
Barrier Wall	LF	-	\$ 110.00	\$0	
Curb & Gutter	LF	33,200	\$ 16.00	\$531,000	
Earthwork					
Common	CY	94,300	\$ 10.00	\$943,000	
Marsh	CY	-	\$ 10.00	\$0	
Rock	CY	-	\$ 10.00	\$0	
Borrow	CY	-	\$ 10.00	\$0	
EBS	CY	-	\$ 10.00	\$0	
Signalized Intersections	EACH	4	\$ 250,000.00	\$1,000,000	
Pavement					
Mainline	SY	-	\$ 45.00	\$0	
System Ramps	SY	-	\$ 45.00	\$0	
Service Ramps	SY	13,400	\$ 45.00	\$603,000	
Cross Road	SY	56,200	\$ 40.00	\$2,248,000	
Frontage Roads	SY	-	\$ 40.00	\$0	
Local Roads	SY	24,000	\$ 30.00	\$720,000	
Mainline Shoulders	SY	-	\$ 30.00	\$0	Assumed 5" depth
Ramp Shoulders	SY	4,700	\$ 30.00	\$141,000	Assumed 5" depth
Base					
Mainline	SY	-	\$ 8.00	\$0	
System Ramps	SY	-	\$ 8.00	\$0	
Service Ramps	SY	13,400	\$ 8.00	\$107,000	
Cross Road	SY	56,200	\$ 8.00	\$450,000	
Frontage Roads	SY	-	\$ 8.00	\$0	
Local Roads	SY	24,000	\$ 8.00	\$192,000	
Mainline Shoulders	SY	-	\$ 8.00	\$0	
Ramp Shoulders	SY	4,700	\$ 8.00	\$38,000	
Subbase					
Mainline	SY	-	\$ 12.00	\$0	
System Ramps	SY	-	\$ 12.00	\$0	
Service Ramps	SY	13,400	\$ 12.00	\$161,000	
Cross Road	SY	56,200	\$ 10.00	\$562,000	
Frontage Roads	SY	-	\$ 10.00	\$0	
Local Roads	SY	24,000	\$ 10.00	\$240,000	
Mainline Shoulders	SY	-	\$ 12.00	\$0	
Ramp Shoulders	SY	4,700	\$ 12.00	\$56,000	
Major Roadway Subtotal (MRS)				\$8,328,000	
ALLOWANCE ITEMS					
Certainty Factor					
DRAINAGE	% of MRS	11.4%		\$951,000	
EROSION CONTROL & RESTORATION	% of MRS	9.3%		\$770,000	
LIGHTING	% of MRS	1.4%		\$118,000	
ROADWAY INCIDENTALS	% of MRS	28.9%		\$2,403,000	
SIGNING/MARKING	% of MRS	3.0%		\$252,000	
TRAFFIC CONTROL & STAGING	% of MRS	4.8%		\$401,000	
ITS/ FTMS	% of MRS	1.0%		\$83,000	
Allowance Subtotal				\$4,978,000	

STRUCTURES (see STRUCTURE tab)	UNIT	QUANTITY	UNIT PRICE	Total	NOTES
Bridge Removal	EACH	1	\$ 65,000.00	\$65,000	
New Bridge (Single Level Interchange)	SF	37,900	\$ 120.00	\$4,548,000	
Bridge Redecking	SF	-	\$ 70.00	\$0	
Bridge Widening	SF	-	\$ 140.00	\$0	
New Retaining Wall	SF	-	\$ 70.00	\$0	
Noise Wall Removal	EACH	-	\$ 75,000.00	\$0	
New Noise Walls	SF	-	\$ 50.00	\$0	
New Box Culvert/Extension	LF	160	\$ 2,300.00	\$368,000	
Sign Bridge - Cantilever	EACH	-	\$ 30,000.00	\$0	
Sign Bridge - Single Span	EACH	-	\$ 60,000.00	\$0	
Structure Incidentals		% of Structures	10%	\$498,000	
Structure SubTotal				\$5,479,000	

SPECIAL CONSTRUCTION ELEMENTS	UNIT	QUANTITY	UNIT PRICE	Total	NOTES
Temporary Bridges	Insert	-	\$ -	\$0	
Temporary Roadways	Insert	-	\$ -	\$0	
Environment Mitigation	Insert	-	\$ -	\$0	
Community Sensitive Design	Insert	-	\$ -	\$0	
Hazardous Materials	Insert	-	\$ -	\$0	
Bypass / Alternate Routes	Insert	-	\$ -	\$0	
Other	Insert	-	\$ -	\$0	
Other	Insert	-	\$ -	\$0	
Other	Insert	-	\$ -	\$0	
Other	Insert	-	\$ -	\$0	
Special Construction Elements Subtotal				\$0	

Construction Costs Estimate (CCE)	\$18,785,000
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CONTEXT SENSITIVE SOLUTIONS (CSS)			
CSS	% of Item CCE	5%	\$939,000
Base Construction Costs Estimate (BCCE)			\$19,724,000

SCOPE CHANGE ALLOWANCE ITEMS			
PROJECT SCOPE INCREASE ALLOWANCE	% of Item BCCE	24%	\$4,734,000
Estimated Const. Let Amount (ECLA)			\$24,458,000

PROJECT DELIVERY ALLOWANCE ITEMS			
PRELIMINARY ENGINEERING	% of Item BCCE	7.2%	\$1,761,000
FINAL ENGINEERING	% of Item BCCE	5.4%	\$1,321,000
CONSTRUCTION ENGINEERING	% of Item BCCE	9.2%	\$2,250,000
CONST CHANGE ORDERS & CLAIMS	% of Item BCCE	10.4%	\$2,544,000
TRAFFIC MITIGATION	% of Item BCCE	1.5%	\$367,000
PUBLIC INVOLVEMENT	% of Item BCCE	1.0%	\$245,000
Delivery Allowance Subtotal			\$8,488,000

EXTERNAL COSTS				NOTES
REAL ESTATE	8% of Item BCCE	\$ 1,578,000.00	\$1,578,000	
COMPENSABLE UTILITIES	3% of Item BCCE	\$ 592,000.00	\$592,000	
JURISDICTIONAL TRANSFERS		\$ -	\$0	
Other		\$ -	\$0	
Other		\$ -	\$0	
Other		\$ -	\$0	
Other		\$ -	\$0	
Other		\$ -	\$0	
External Costs Subtotal			\$2,170,000	
Base Project Cost Estimate			\$35,116,000	

RISK ADJUSTMENTS				NOTES
Risk Item A		\$ -	\$0	
Risk Item B		\$ -	\$0	
Risk Item C		\$ -	\$0	
Risk Adjustment Subtotal			\$0	

ESTIMATE UNCERTAINTY				NOTES
Uncertainty Item A		\$ -	\$0	
Uncertainty Item B		\$ -	\$0	
Uncertainty Item C		\$ -	\$0	
Estimate Uncertainty Subtotal			\$0	

Current Year Total Project Cost Estimate	\$35,116,000
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