

# 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 & WIS 15/Northland Ave 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
<b>MAJOR ROADWAY ITEMS</b>	<a href="#">Bid Express Inst.</a>	<a href="#">Estimator Inst.</a>			
Removing Pavement	SY	131,000	\$ 5.00	\$655,000	
Barrier Wall	LF	-	\$ 110.00	\$0	
Curb & Gutter	LF	62,000	\$ 16.00	\$992,000	
Earthwork					
Common	CY	166,100	\$ 10.00	\$1,661,000	
Marsh	Insert	-	\$ 10.00	\$0	
Rock	Insert	-	\$ 10.00	\$0	
Borrow	Insert	-	\$ 10.00	\$0	
EBS	Insert	-	\$ 10.00	\$0	
Signalized Intersections	EACH	5	\$ 250,000.00	\$1,250,000	Includes Bluemound/Glenpark
Pavement					
Mainline	SY	-	\$ 45.00	\$0	
System Ramps	SY	-	\$ 45.00	\$0	
Service Ramps	SY	18,000	\$ 45.00	\$810,000	
Cross Road	SY	95,200	\$ 40.00	\$3,808,000	
Frontage Roads	SY	4,100	\$ 40.00	\$164,000	
Local Roads	SY	50,300	\$ 30.00	\$1,509,000	
Mainline Shoulders	SY	-	\$ 30.00	\$0	Assumed 5" depth
Ramp Shoulders	SY	7,500	\$ 30.00	\$225,000	Assumed 5" depth
Base					
Mainline	SY	-	\$ 8.00	\$0	
System Ramps	SY	-	\$ 8.00	\$0	
Service Ramps	SY	18,000	\$ 8.00	\$144,000	
Cross Road	SY	95,200	\$ 8.00	\$762,000	
Frontage Roads	SY	4,100	\$ 8.00	\$33,000	
Local Roads	SY	50,300	\$ 8.00	\$402,000	
Mainline Shoulders	SY	-	\$ 8.00	\$0	
Ramp Shoulders	SY	7,500	\$ 8.00	\$60,000	
Subbase					
Mainline	SY	-	\$ 12.00	\$0	
System Ramps	SY	-	\$ 12.00	\$0	
Service Ramps	SY	18,000	\$ 12.00	\$216,000	
Cross Road	SY	95,200	\$ 10.00	\$952,000	
Frontage Roads	SY	4,100	\$ 10.00	\$41,000	
Local Roads	SY	50,300	\$ 10.00	\$503,000	
Mainline Shoulders	SY	-	\$ 12.00	\$0	
Ramp Shoulders	SY	7,500	\$ 12.00	\$90,000	
Major Roadway Subtotal (MRS)				\$14,277,000	
<b>ALLOWANCE ITEMS</b>					
<b>Certainty Factor</b>					
DRAINAGE	% of MRS	11.41%		\$1,630,000	
EROSION CONTROL & RESTORATION	% of MRS	9.25%		\$1,321,000	
LIGHTING	% of MRS	1.41%		\$202,000	
ROADWAY INCIDENTALS	% of MRS	28.85%		\$4,119,000	
SIGNING/MARKING	% of MRS	3.03%		\$432,000	
TRAFFIC CONTROL & STAGING	% of MRS	4.81%		\$687,000	
ITS/ FTMS	% of MRS	1.00%		\$143,000	
Allowance Subtotal				\$8,534,000	

STRUCTURES (see STRUCTURE tab)					NOTES
	UNIT	QUANTITY	UNIT PRICE	Total	
Bridge Removal	EACH	2	\$ 65,000.00	\$130,000	
New Bridge (Single Level Interchange)	SF	33,700	\$ 120.00	\$4,044,000	
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	185	\$ 2,300.00	\$426,000	
Sign Bridge - Cantilever	EACH	-	\$ 30,000.00	\$0	
Sign Bridge - Single Span	EACH	-	\$ 60,000.00	\$0	
Structure Incidentals		% of Structures	10%	\$460,000	
Structure SubTotal				\$5,060,000	
SPECIAL CONSTRUCTION ELEMENTS					NOTES
	UNIT	QUANTITY	UNIT PRICE	Total	
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	1	\$ 5,000,000.00	\$5,000,000	Traffic mitigation at Casaloma
Other	Insert	-	\$ -	\$0	
Other	Insert	-	\$ -	\$0	
Other	Insert	-	\$ -	\$0	
Special Construction Elements Subtotal				\$5,000,000	
Construction Costs Estimate (CCE)				\$32,871,000	
CONTEXT SENSITIVE SOLUTIONS (CSS)					
CSS		% of Item CCE	5%	\$1,644,000	
Base Construction Costs Estimate (BCCE)				\$34,515,000	
SCOPE CHANGE ALLOWANCE ITEMS					
PROJECT SCOPE INCREASE ALLOWANCE		% of Item BCCE	24%	\$8,284,000	
Estimated Const. Let Amount (ECLA)				\$42,799,000	
PROJECT DELIVERY ALLOWANCE ITEMS					
PRELIMINARY ENGINEERING		% of Item BCCE	7.2%	\$3,082,000	
FINAL ENGINEERING		% of Item BCCE	5.4%	\$2,311,000	
CONSTRUCTION ENGINEERING		% of Item BCCE	9.2%	\$3,938,000	
CONST CHANGE ORDERS & CLAIMS		% of Item BCCE	10.4%	\$4,451,000	
TRAFFIC MITIGATION		% of Item BCCE	1.5%	\$642,000	
PUBLIC INVOLVEMENT		% of Item BCCE	1.0%	\$428,000	
Delivery Allowance Subtotal				\$14,852,000	
EXTERNAL COSTS					NOTES
REAL ESTATE		8% of Item BCCE	\$ 2,761,000.00	\$2,761,000	
COMPENSABLE UTILITIES		3% of Item BCCE	\$ 1,035,000.00	\$1,035,000	
JURISDICTIONAL TRANSFERS			\$ -	\$0	
Other			\$ -	\$0	
Other			\$ -	\$0	
Other			\$ -	\$0	
Other			\$ -	\$0	
Other			\$ -	\$0	
External Costs Subtotal				\$3,796,000	
Base Project Cost Estimate				\$61,447,000	
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				\$61,447,000	