

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 BB 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		

ITEM DESCRIPTION	UNIT	QUANTITY	UNIT PRICE	Total	NOTES
MAJOR ROADWAY ITEMS					
Removing Pavement	SY	55,900	\$ 5.00	\$280,000	
Barrier Wall	LF	2,300	\$ 110.00	\$253,000	
Curb & Gutter	LF	24,200	\$ 16.00	\$387,000	
Earthwork					
Common	CY	57,500	\$ 10.00	\$575,000	
Marsh	CY	-	\$ 10.00	\$0	
Rock	CY	-	\$ 10.00	\$0	
Borrow	CY	-	\$ 10.00	\$0	
EBS	CY	-	\$ 10.00	\$0	
Signalized Intersections	EACH	-	\$ 250,000.00	\$0	
Pavement					
Mainline	SY	-	\$ 45.00	\$0	
System Ramps	SY	-	\$ 45.00	\$0	
Service Ramps	SY	11,200	\$ 45.00	\$504,000	
Cross Road	SY	32,400	\$ 40.00	\$1,296,000	
Frontage Roads	SY	-	\$ 40.00	\$0	
Local Roads	SY	12,300	\$ 30.00	\$369,000	Assumed 6" depth
Mainline Shoulders	SY	-	\$ 30.00	\$0	Assumed 6" depth
Ramp Shoulders	SY	2,200	\$ 30.00	\$66,000	Assumed 6" depth
Base					
Mainline	SY	-	\$ 8.00	\$0	Assumed 12" depth
System Ramps	SY	-	\$ 8.00	\$0	
Service Ramps	SY	11,200	\$ 8.00	\$90,000	
Cross Road	SY	32,400	\$ 8.00	\$259,000	
Frontage Roads	SY	-	\$ 8.00	\$0	
Local Roads	SY	12,300	\$ 8.00	\$98,000	
Mainline Shoulders	SY	-	\$ 8.00	\$0	
Ramp Shoulders	SY	2,200	\$ 8.00	\$18,000	
Subbase					
Mainline	SY	-	\$ 12.00	\$0	Assumed 12" depth
System Ramps	SY	-	\$ 12.00	\$0	
Service Ramps	SY	11,200	\$ 12.00	\$134,000	
Cross Road	SY	32,400	\$ 10.00	\$324,000	
Frontage Roads	SY	-	\$ 10.00	\$0	
Local Roads	SY	12,300	\$ 10.00	\$123,000	
Mainline Shoulders	SY	-	\$ 12.00	\$0	
Ramp Shoulders	SY	2,200	\$ 12.00	\$26,000	
Major Roadway Subtotal (MRS)				\$4,802,000	
ALLOWANCE ITEMS					
DRAINAGE	% of MRS	11.4%		\$548,000	
EROSION CONTROL & RESTORATION	% of MRS	9.3%		\$444,000	
LIGHTING	% of MRS	1.4%		\$68,000	
ROADWAY INCIDENTALS	% of MRS	28.9%		\$1,385,000	
SIGNING/MARKING	% of MRS	3.0%		\$145,000	
TRAFFIC CONTROL & STAGING	% of MRS	4.8%		\$231,000	
ITS/ FTMS	% of MRS	1.0%		\$48,000	
Allowance Subtotal				\$2,869,000	

STRUCTURES (see STRUCTURE tab)					NOTES
Bridge Removal	EACH	1	\$ 65,000.00	\$65,000	Box culverts under USH 41 ramps are included in mainline estimate.
New Bridge (Single Level Interchange)	SF	2,800	\$ 120.00	\$336,000	
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	571	\$ 2,300.00	\$1,313,000	
Sign Bridge - Cantilever	EACH	-	\$ 30,000.00	\$0	
Sign Bridge - Single Span	EACH	-	\$ 60,000.00	\$0	
Structure Incidentals	% of Structures		10%	\$171,000	
Structure SubTotal				\$1,885,000	
SPECIAL CONSTRUCTION ELEMENTS					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	
Special Construction Elements Subtotal				\$0	
Construction Costs Estimate (CCE)				\$9,556,000	
CONTEXT SENSITIVE SOLUTIONS (CSS)					
CSS	% of Item CCE		5%	\$478,000	
Base Construction Costs Estimate (BCCE)				\$10,034,000	
SCOPE CHANGE ALLOWANCE ITEMS					
PROJECT SCOPE INCREASE ALLOWANCE	% of Item BCCE		24%	\$2,408,000	
Estimated Const. Let Amount (ECLA)				\$12,442,000	
PROJECT DELIVERY ALLOWANCE ITEMS					
PRELIMINARY ENGINEERING	% of Item BCCE		7.2%	\$896,000	
FINAL ENGINEERING	% of Item BCCE		5.4%	\$672,000	
CONSTRUCTION ENGINEERING	% of Item BCCE		9.2%	\$1,145,000	
CONST CHANGE ORDERS & CLAIMS	% of Item BCCE		10.4%	\$1,294,000	
TRAFFIC MITIGATION	% of Item BCCE		1.5%	\$187,000	
PUBLIC INVOLVEMENT	% of Item BCCE		1.0%	\$124,000	
Delivery Allowance Subtotal				\$4,318,000	
EXTERNAL COSTS					NOTES
REAL ESTATE	8% of Item BCCE		\$803,000	\$803,000	
COMPENSABLE UTILITIES	3% of Item BCCE		\$301,000	\$301,000	
JURISDICTIONAL TRANSFERS			\$0	\$0	
Other			\$0	\$0	
Other			\$0	\$0	
Other			\$0	\$0	
Other			\$0	\$0	
Other			\$0	\$0	
External Costs Subtotal				\$1,104,000	
Base Project Cost Estimate				\$17,864,000	
RISK ADJUSTMENTS					NOTES
Roundabout Risk	10% of Item BCCE		\$1,003,000	\$1,003,000	
Risk Item B			\$0	\$0	
Risk Item C			\$0	\$0	
Risk Adjustment Subtotal				\$1,003,000	
ESTIMATE UNCERTAINTY					NOTES
Uncertainty Item A			\$0	\$0	
Uncertainty Item B			\$0	\$0	
Uncertainty Item C			\$0	\$0	
Estimate Uncertainty Subtotal				\$0	
Current Year Total Project Cost Estimate				\$18,867,000	