

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 96/Wisconsin 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		

ITEM DESCRIPTION	UNIT	QUANTITY	UNIT PRICE	Total	NOTES
MAJOR ROADWAY ITEMS					
Removing Pavement	SY	86,500	\$ 5.00	\$433,000	
Barrier Wall	LF	-	\$ 110.00	\$0	
Curb & Gutter	LF	33,900	\$ 16.00	\$542,000	
Earthwork					
Common	CY	87,500	\$ 10.00	\$875,000	
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	12,000	\$ 45.00	\$540,000	
Cross Road	SY	46,800	\$ 40.00	\$1,872,000	
Frontage Roads	SY	4,700	\$ 40.00	\$188,000	
Local Roads	SY	24,200	\$ 30.00	\$726,000	Assumed 6" depth
Mainline Shoulders	SY	-	\$ 30.00	\$0	Assumed 6" depth
Ramp Shoulders	SY	4,600	\$ 30.00	\$138,000	Assumed 6" depth
Base					
Mainline	SY	-	\$ 8.00	\$0	Assumed 12" depth
System Ramps	SY	-	\$ 8.00	\$0	
Service Ramps	SY	12,000	\$ 8.00	\$96,000	
Cross Road	SY	46,800	\$ 8.00	\$374,000	
Frontage Roads	SY	4,700	\$ 8.00	\$38,000	
Local Roads	SY	24,200	\$ 8.00	\$194,000	
Mainline Shoulders	SY	-	\$ 8.00	\$0	
Ramp Shoulders	SY	4,600	\$ 8.00	\$37,000	
Subbase					
Mainline	SY	-	\$ 12.00	\$0	Assumed 12" depth
System Ramps	SY	-	\$ 12.00	\$0	
Service Ramps	SY	12,000	\$ 12.00	\$144,000	
Cross Road	SY	46,800	\$ 10.00	\$468,000	
Frontage Roads	SY	4,700	\$ 10.00	\$47,000	
Local Roads	SY	24,200	\$ 10.00	\$242,000	
Mainline Shoulders	SY	-	\$ 12.00	\$0	
Ramp Shoulders	SY	4,600	\$ 12.00	\$55,000	
Major Roadway Subtotal (MRS)				\$8,009,000	
ALLOWANCE ITEMS					
DRAINAGE	% of MRS	11.4%		\$914,000	
EROSION CONTROL & RESTORATION	% of MRS	9.3%		\$741,000	
LIGHTING	% of MRS	1.4%		\$113,000	
ROADWAY INCIDENTALS	% of MRS	28.9%		\$2,311,000	
SIGNING/MARKING	% of MRS	3.0%		\$243,000	
TRAFFIC CONTROL & STAGING	% of MRS	4.8%		\$386,000	
ITS/ FTMS	% of MRS	1.0%		\$80,000	
Allowance Subtotal				\$4,788,000	

STRUCTURES		UNIT	QUANTITY	UNIT PRICE	Total	NOTES
Bridge Removal	EACH	1	\$	65,000.00	\$65,000	Railroad bridge Railroad bridge
New Bridge (Single Level Interchange)	SF	5,900	\$	120.00	\$708,000	
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	190	\$	2,300.00	\$437,000	
Sign Bridge - Cantilever	EACH	-	\$	30,000.00	\$0	
Sign Bridge - Single Span	EACH	-	\$	60,000.00	\$0	
Structure Incidentals	% of Structures		10%		\$121,000	
Structure SubTotal					\$1,331,000	
SPECIAL CONSTRUCTION ELEMENTS		UNIT	QUANTITY	UNIT PRICE	Total	NOTES
Temporary Bridges	Insert	-	\$	-	\$0	Need temporary bridge for RR?
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)					\$14,128,000	
CONTEXT SENSITIVE SOLUTIONS (CSS)						
CSS	% of Item CCE			5%	\$706,000	
Base Construction Costs Estimate (BCCE)					\$14,834,000	
SCOPE CHANGE ALLOWANCE ITEMS						
PROJECT SCOPE INCREASE ALLOWANCE	% of Item BCCE			24%	\$3,560,000	
Estimated Const. Let Amount (ECLA)					\$18,394,000	
PROJECT DELIVERY ALLOWANCE ITEMS						
PRELIMINARY ENGINEERING	% of Item BCCE			7.2%	\$1,324,000	
FINAL ENGINEERING	% of Item BCCE			5.4%	\$993,000	
CONSTRUCTION ENGINEERING	% of Item BCCE			9.2%	\$1,692,000	
CONST CHANGE ORDERS & CLAIMS	% of Item BCCE			10.4%	\$1,913,000	
TRAFFIC MITIGATION	% of Item BCCE			1.5%	\$276,000	
PUBLIC INVOLVEMENT	% of Item BCCE			1.0%	\$184,000	
Delivery Allowance Subtotal					\$6,382,000	
EXTERNAL COSTS						NOTES
REAL ESTATE	8% of Item BCCE			\$1,187,000	\$1,187,000	
COMPENSABLE UTILITIES	3% of Item BCCE			\$445,000	\$445,000	
JURISDICTIONAL TRANSFERS				\$0	\$0	
External Costs Subtotal					\$1,632,000	
Base Project Cost Estimate					\$26,408,000	
RISK ADJUSTMENTS						NOTES
Risk Item A				\$0	\$0	
Risk Item B				\$0	\$0	
Risk Item C				\$0	\$0	
Risk Adjustment Subtotal					\$0	
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					\$26,408,000	