RAMSEY COUNTY COOPERATIVE AGREEMENT WITH THE CITY OF SAINT PAUL FOR

Reconstruction of White Bear Avenue (County State Aid Highway 65) between I-94 and Beech Street

S.A.P. 062-665-052 and M.S.A.P. 164-020-138

Total Project Cost: \$5,811,262.13 Attachments:

City of Saint Paul Cost: \$446,070.86 A – Engineer's Estimate B – Hydraulics Memo

C – Cost Participation Policy

D – Storm Sewer Ownership

This Agreement is between the City of Saint Paul, a municipal corporation ("City") and Ramsey County, a political subdivision of the State of Minnesota, ("County") for the reconstruction of White Bear Avenue ("Project") between I-94 and Beech Street.

WITNESSETH:

WHEREAS, the City and the County desire to proceed with the Project; and

WHEREAS, the Project is identified in Ramsey County's Transportation Improvement Program; and

WHEREAS, White Bear Avenue, in the area affected by reconstruction, is designated County State Aid Highway (CSAH) 65; and

WHEREAS, the Project has been designated by the Minnesota Department of Transportation (Mn/DOT) as eligible for Federal Aid funds; and

WHEREAS, the Project has been designated as State Project (S.P.) S.P. 062-665-052 and St. Paul Municipal State Aid (MSA) 164-020-138; and

WHEREAS, the subject street segment is located entirely within the City; and

WHEREAS, the proposed Project includes, in addition to other items, grading, paving, concrete curb and gutter, pedestrian curb ramps, traffic signals, accessible pedestrian signals, landscaping, turf establishment, utility adjustments and betterments, and related features; and

WHEREAS, construction of storm sewer systems will be constructed as part of the Project in accordance with municipal ordinances and local watershed rules; and

WHEREAS, plans for the Project showing proposed construction will be presented to the City and will be on file at Ramsey County Public Works Department; and

NOW, THEREFORE, IT IS HEREBY MUTUALLY AGREED AS FOLLOWS:

- 1. The Whereas recitals set forth in this Agreement are hereby made a part of this Agreement as if set out in full.
- 2. Responsibility for Design Engineering
 - 2.1. Except for those portions identified below, the County will prepare plans, specifications, and proposals for the Project, which will include, among other things, the proposed reconstruction, alignment, profiles, grades, cross sections, paving, concrete curb and gutter, medians, storm sewer, pedestrian curb ramps, turf establishment, traffic signals, street lighting, accessible pedestrian signals, and utility replacement and adjustments.
 - 2.1.1. The City will prepare plans and specifications for sanitary sewer service.
 - 2.2. Any costs associated with Project revisions after the completion of plans and specifications will be paid for by the party requesting the revisions. Revisions must be consistent with Mn/DOT State Aid requirements and are subject to approval by the County.
- 3. Procurement and Award of Contract
 - 3.1. The County will take bids in accordance with state law and County rules.
 - 3.2. The County will prepare an abstract of bids and a cost participation summary based on the lowest responsible bidder's proposal, and will provide the same to the City.
 - 3.3. The County will request the City's concurrence to award a contract to the lowest responsible bidder.
 - 3.4. The County will award a contract, and pay the contractor from the Federal Aid, County State Aid Highway, Municipal State Aid Highway, and local funds identified for the Project.
- 4. Responsibility for Construction Engineering

- 4.1. Except for those portions identified below, the County shall perform or contract the performance of the construction engineering for all elements of the Project.
 - 4.1.1. The City will provide construction engineering for traffic signal, and street lighting installation.
 - 4.1.2. The City will provide construction engineering for sanitary sewer service installation.

5. Project Costs

- 5.1. An estimate of the City's share of the Project costs is attached as Exhibit A, (Cost Participation Based on Engineer's Estimate). Quantities and unit prices in Exhibit A are estimates. Actual costs shall be based on the contract unit prices and the quantities constructed.
- 5.2. Except as provided herein, the County and City will participate in the costs of construction in accordance with the Ramsey County Cost Participation Policy, attached as Exhibit C. If there is a conflict between Exhibit C and this Agreement, this Agreement will prevail.
 - 5.2.1. The costs of contractor mobilization, field office operation, erosion control supervisor, and traffic control will be allocated based upon cost participation percentages for the entire Project and based on contract unit prices and quantities at the time of contract award. No adjustments in the allocation will be made if unit prices or quantities vary during construction.
 - 5.2.2. The costs of storm sewer construction needed for Project drainage will be split between the County and City in accordance with the MnDOT Hydraulics Memorandum, attached as Exhibit B.
 - 5.2.3. The County shall maintain the portion of the storm sewer used for storm water rate control highlighted in Exhibit D.
 - 5.2.4. The City will pay 100% of the sanitary sewer service improvements on the Project and will reimburse the County for all costs for sanitary sewer service improvements.
 - 5.2.5. The City will pay 100% of the cost of street lighting construction on the Project, after federal funds are applied.
 - 5.2.6. The City will supply the signal system cabinet and emergency vehicle preemption equipment which will be paid for under a separate force account agreement.

5.3. Design Engineering Costs

- 5.3.1. The City shall pay the County a design engineering fee equal to 12% of the portion of the Project Costs for which the City participates, except as provided below. An estimate of the City's design engineering fee is provided within Exhibit A.
- 5.3.2. The City shall pay the County a design engineering fee equal to 2% of the project costs related to sanitary sewer services.
- 5.3.3. Design engineering fees shall be calculated based on the quantities and unit prices at the time of contract award.
- 5.4. Construction Engineering and Administration Costs
 - 5.4.1. The City shall pay the County a construction engineering and administration fee equal to 12% of the portion of the Project Costs for which the City participates, except as provided below. An estimate of the City's construction engineering fee is provided within Exhibit A.
 - 5.4.2. The City shall pay the County a construction engineering and administration fee equal to 2% of the project costs related to street lighting and sanitary sewer services.
 - 5.4.3. The City shall be credited a construction engineering fee equal to 10% for the project costs related to traffic signals on County legs.
 - 5.4.4. Construction engineering and administration fees shall be calculated based on the final contract quantities and unit prices.

6. Payment Schedule

- 6.1. Design engineering will be invoiced at the time of contract award.
- 6.2. The County will invoice the City for construction costs incurred on a monthly basis or as determined by the payment schedule for the contractor.
- 6.3. Construction engineering will be invoiced at the time of substantial project completion, as determined by the County.
- 6.4. Payment will be made within 30 days of receipt of an invoice.
- 7. Maintenance Responsibility for Project Elements

- 7.1. Upon completion of the Project, the County shall own all elements of the Project, except as provided below.
- 7.2. The City shall own storm sewer catch basins, manholes, and laterals that are located on City streets. Exhibit D attached, references ownership responsibility of the storm water manholes, catch basins and laterals.
- 7.3. County owned storm sewer catch basins and laterals will be maintained by the City in accordance with Joint Powers Agreement between Ramsey County and the City of St. Paul, Council File 93-1974.
- 7.4. The City shall own and maintain the storm sewer trunk lines within the Project.
- 7.5. Storm and sanitary sewer laterals and drains servicing private property are owned and maintained by the City or the respective property owners, pursuant to City agreements and policy.
- 7.6. The City shall own and maintain street lights.
- 7.7. The City shall own traffic signals that direct City streets.
- 7.8. Traffic signals will be maintained by the City in accordance with Joint Powers Agreement between Ramsey County and the City of St. Paul, Council File 93-1974.
- 7.9. The City shall own and maintain the boulevard trees.
- 8. The City grants the County temporary construction easements over all City owned rights-of-way and property within the limits of the Project for use during construction at no cost to the County.
- 9. The County and the City agree that, except as otherwise expressly provided herein, each party will be responsible for its own acts and the results thereof to the extent authorized by law and shall not be responsible for the acts of any others and the results thereof. Liability shall be governed by applicable law. Without limiting the foregoing, liability of the parties shall be governed by the provisions of Minnesota Statutes Chapter 466 (Tort Liability, Political Subdivisions) or other applicable law. Nothing in this Agreement shall constitute a waiver by the County or the City of any statutory or common law immunities, limits, or exceptions on liability.
- 10. This Agreement shall remain in full force and effect until terminated by mutual agreement of the parties.

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CITY OF SAINT PAUL, MINNESOTA	
By: Mayor	Date:
By: Director of Public Works	Date:
Approved by the Office of Financial Services: By:	
Approved as to Form:	
By:City Attorney	

RAMSEY COUNTY, MINNESOTA	
Julie Kleinschmidt, County Manager	_ Date:
Approval recommended:	
James E. Tolaas, Director Public Works Department	_
Approved as to form:	
Assistant County Attorney	_

	En	ngineer	's Estima	ate of P	Probable	Cost											
WSB Project: White Bear Lake Reconstruction											EXHIBIT A						
Project Location: St. Paul																	
WSB Project No: 03189-000								DJ Sosa		DATE:	5/31/2016						
		STATE	MENT OF ES	TIMATED (QUANTITIES												
								PARTIC	CIPATING					NON PART	ICIPATING		
				Proje	ct Total	S.P. 0	62-665-052	-	52-665-052 M SEWER	CITY C	64-020-138 F ST PAUL % LOCAL	RAMSE	Y COUNTY	CITY OF	4-020-138 ST PAUL LOCAL	CITY C	64-020-138 F ST PAUL % LOCAL
Item			Unit	Estimated	Estimated	Estimated	Estimated	Estimated	Estimated	Estimated	Estimated	Estimated	Estimated	Estimated	Estimated	Estimated	Estimated
Number Description	Notes	Unit	Price	Quantity	Cost	Quantity	Cost	Quantity	Cost	Quantity	Cost	Quantity	Cost	Quantity	Cost	Quantity	Cost
2021.501 MOBILIZATION	(8)	LUMP SUM	\$482,900.00	1	\$482,900.00	0.57	\$275,253.00	0.16	\$77,264.00	0.1	\$48,290.00	0.01	\$4,829.00	0.03	\$14,487.00	0.13	\$62,777.00
2031.501 FIELD OFFICE TYPE D - MODIFIED 2041.610 TRAINEES	(7)	EACH HOURS	\$15,500.00 \$1.00	1 600	\$15,500.00 \$600.00	0.57 600	\$8,835.00	0.16	\$2,480.00	0.1	\$1,550.00	0.01	\$155.00	0.03	\$465.00	0.13	\$2,015.00
			·														
2101.502 CLEARING 2101.507 GRUBBING		TREE TREE	\$200.00 \$200.00	82 82	\$16,400.00 \$16,400.00	82 82	\$16,400.00 \$16,400.00										
2102.502 PAVEMENT MARKING REMOVAL 2104.501 REMOVE SEWER PIPE (STORM)		LIN FT LIN FT	\$1.00 \$11.49	1000 3652	\$1,000.00 \$41,961.48	1000	\$1,000.00	3652	\$41,961.48								
2104.501 REMOVE CURB AND GUTTER		LIN FT	\$6.42	5777	\$37,088.34	5777	\$37,088.34	3032	Q41,701.40								
2104.501 REMOVE WATER MAIN 2104.501 REMOVE WATER SERVICE PIPE 2104.501 REMOVE SANITARY SERVICE PIPE		LIN FT LIN FT LIN FT	\$3.00 \$3.00 \$3.00	3886 335 890	\$11,658.00 \$1,005.00 \$2,670.00	103 260	\$309.00 \$780.00							710	\$2,130.00	3783 75 180	\$11,349.00 \$225.00 \$540.00
2104.503 REMOVE CONCRETE PAVEMENT		SQ FT	\$1.42	4522	\$6,421.24	4522	\$6,421.24										
2104.505 REMOVE CONCRETE WALK	(P)	SQ YD	\$11.56	3421	\$39,546.76	3421	\$39,546.76										
2104.505 REMOVE CONCRETE DRIVEWAY PAVEMENT 2104.505 REMOVE BITUMINOUS DRIVEWAY PAVEMENT		SQ YD SQ YD	\$15.85 \$25.00	977 8	\$15,485.45 \$200.00	977 8	\$15,485.45 \$200.00										
2104.505 REMOVE PAVEMENT SPECIAL) (1) (SQ YD	\$17.79	18051	\$321,127.29	18051	\$321,127.29										
2104.509 REMOVE MANHOLE OR CATCH BASIN		EACH	\$750.00	47	\$35,250.00			47	\$35,250.00								
2104.509 REMOVE CASTING 2104.509 REMOVE UTILITY VAULT		EACH EACH	\$100.00 \$1,000.00	63	\$6,300.00			63	\$6,300.00							2	\$2,000.00
2104.509 REMOVE HYDRANT		EACH	\$310.00	11	\$3,410.00	7	\$2,170.00									4	\$1,240.00
2104.509 REMOVE SERVICE CABINET 2104.509 REMOVE SIGN BASE		EACH EACH	\$525.00 \$400.00	2	\$1,050.00 \$800.00	2	\$800.00			2	\$1,050.00						
2104.509 REMOVE SIGN TYPE C		EACH	\$25.00	77	\$1,925.00	77	\$1,925.00										
2104.509 REMOVE SIGNAL SYSTEM B 2104.511 SAWING CONCRETE PAVEMENT (FULL DEPTH)	(4)	EACH LIN FT	\$3,296.00 \$8.00	289	\$3,296.00 \$2,312.00	0.5 289	\$1,648.00 \$2,312.00			0.5	\$1,648.00						
2104.513 SAWING BITUMINOUS PAVEMENT (FULL DEPTH)	(4)	LIN FT	\$2.90	869	\$2,520.10	869	\$2,520.10			_							
2104.523 SALVAGE LIGHTING UNIT 2104.523 SALVAGE SIGN TYPE SPECIAL	(7)	EACH EACH	\$350.00 \$25.00	7 10	\$2,450.00 \$250.00	10	\$250.00			7	\$2,450.00						
2104.523 SALVAGE HYDRANT	(5)	EACH	\$1,580.00	1	\$1,580.00		\$1,580.00				10.500.00						
2104.601 HAUL SALVAGED MATERIAL	(7)	LUMP SUM	\$2,500.00	Τ	\$2,500.00					1	\$2,500.00						
2105.501 COMMON EXCAVATION (EV) 2105.522 SELECT GRANULAR BORROW (CV)	(P) (P)	CU YD	\$16.97 \$21.83	14172 12754	\$240,498.84 \$278,419.82	14172 12754	\$240,498.84 \$278,419.82										
2105.522 SELECT GRANOLAR BORROW (CV) 2105.523 COMMON BORROW (CV)	(P)	CU YD	\$1.00	199	\$199.00	199	\$199.00										
2105.607 HAUL & DISPOSE OF CONTAMINATED MATERIAL 2105.619 MINOR GRADING	(16)	CU YD RDST	\$72.65 \$611.00	170 7	\$12,350.50 \$4,277.00	7	\$4,277.00							70	\$5,085.50	100	\$7,265.00
			·														
2123.610 TRACTOR MOUNTD BACKHOE 2123.610 STREET SWEEPER (WITH PICKUP BROOM)	(7) (8) (7) (8)		\$140.00 \$140.00	50 175	\$7,000.00 \$24,500.00	50 175	\$7,000.00 \$24,500.00										
2130.501 WATER	(5) (8)		\$40.00	100	\$4,000.00	100	\$4,000.00										
2211.503 AGGREGATE BASE (CV) CLASS 6	(P)	CU YD	\$39.20	3851	\$150,959.20	3851	\$150,959.20							-			
2301.602 DRILL & GROUT REINFOCEMENT BAR	,-,	EACH	\$13.31	300	\$3,993.00	300	\$3,993.00										
2357.502 BITUMINOUS MATERIAL FOR TACK COAT		GALLON	\$2.60	2123	\$5,519.80	2123	\$5,519.80							1			
2360.501 TYPE SP 9.5 BITUMINOUS MIXTURE FOR PATCHING 2360.501 TYPE SP 9.5 WEARING COURSE MIXTURE (3,B)	(8)	TON TON	\$160.00 \$105.00	100 150	\$16,000.00 \$15,750.00	100 150	\$16,000.00 \$15,750.00										
2360.501 TYPE SP 12.5 WEARING COURSE MIXTURE (4,F)	(8)	TON	\$74.00	4820	\$356,680.00	4820	\$356,680.00										
2360.502 TYPE SP 12.5 NON WEARING COURSE MIXTURE (4,B) 2402.601 SALVAGE & INSTALL METAL RAILING	(2)	TON LIN FT	\$61.00 \$133.00	3620 176	\$220,820.00 \$23,408.00	3620 176	\$220,820.00 \$23,408.00										
			·														
2411.507 CONCRETE STAIRWAY 2451.609 GRANULAR BACKFILL	(7) (8)	EACH TON	\$333.00 \$17.22	36 1899	\$11,988.00 \$32,700.78	36	\$11,988.00							240	\$4,132.80	1659	\$28,567.98
2501.521 44" SPAN RC PIPE-ARCH SEWER CL IIA	(, ,		\$104.36	812	\$84,740.32	400	411 504 05	812	\$84,740.32						, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		, ,,,,,,,,,
2502.521 4" TP PIPE DRAIN		LIN FT	\$23.83	492	\$11,724.36	492	\$11,724.36										
2503.541 15" RC PIPE SEWER DESIGN 3006 CLASS V		LIN FT	\$43.82	1709	\$74,888.38			1709	\$74,888.38								
2503.541 18" RC PIPE SEWER DESIGN 3006 CLASS III 2503.541 21" RC PIPE SEWER DESIGN 3006 CLASS III		LIN FT LIN FT	\$45.54 \$47.79	808 575	\$36,796.32 \$27,479.25			808 575	\$36,796.32 \$27,479.25								
2503.541 24" RC PIPE SEWER DESIGN 3006 CLASS III 2503.541 27" RC PIPE SEWER DESIGN 3006 CLASS III		LIN FT LIN FT	\$49.25 \$55.00		\$19,404.50 \$22,880.00			394 416	\$19,404.50 \$22,880.00								
2503.601 TELEVISE PROJECT SANITARY SEWER		LS	\$17,000.00	1	\$17,000.00					1	\$17,000.00			-			
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		En	gineer	's Estima	ate of P	robable (Cost											
WSB Project: White Bear Lake Re	construction											EXHIBIT A						
Project Location: St. Paul																		
WSB Project No: 03189-000									DJ Sosa		DATE:	5/31/2016					-	
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							S.P. 06	2-665-052	S.P. 06	2-665-052	C.P. 16	54-020-138	RAMSE	Y COUNTY	C.P. 16	4-020-138	C.P. 16	4-020-138
					Projec	ct Total			STORM	M SEWER	-	F ST PAUL				ST PAUL	-	F ST PAUL
					FIOJEC	ic iocai					100%	LOCAL			100%	HOCAL	100%	LOCAL
Item		37-4	77 3-6	Unit	Estimated	Estimated	Estimated	Estimated	Estimated	Estimated	Estimated	Estimated	Estimated	Estimated	Estimated	Estimated	Estimated	Estimated
Number Description 2503.602 CONNECT TO EXIST	ING STORM SEWER	Notes	Unit EACH	Price \$540.00	Quantity 12	Cost \$6,480.00	Quantity	Cost	Quantity 12	Cost \$6,480.00	Quantity	Cost	Quantity	Cost	Quantity	Cost	Quantity	Cost
2503.602 CONNECT TO EXIST	ING SANITARY SEWER ING SANITARY SEWER SERVICE	(7)	EACH EACH	\$540.00 \$370.00	20 56	\$10,800.00 \$20,720.00									20 20	\$10,800.00 \$7,400.00	36	\$13,320.00
2503.602 CONSTRUCT BULKHE	AD	(7)	EACH	\$300.00	15	\$4,500.00	15	\$4,500.00										
2503.603 6" PVC PIPE SEWE	R		LIN FT	\$76.44	892	\$68,184.48									712	\$54,425.28	180	\$13,759.20
2504.602 CONNECT TO EXIST 2504.602 CONNECT TO EXIST		(7)	EACH EACH	\$1,975.00 \$349.00	19 25	\$37,525.00 \$8,725.00	24	\$8,376.00									19	\$37,525.00 \$349.00
2504.602 HYDRANT			EACH	\$6,070.00	9	\$54,630.00	6	\$36,420.00									3	\$18,210.00
2504.602 INSTALL HYDRANT 2504.602 4" GATE VALVE &		(7)	EACH EACH	\$1,580.00 \$2,116.00	1	\$1,580.00 \$2,116.00	1	\$1,580.00									1	\$2,116.00
2504.602 6" GATE VALVE & 2504.602 8" GATE VALVE &	BOX		EACH EACH	\$2,267.00	1 17	\$2,267.00	1	\$2,267.00									13	\$35,945.00
2504.602 12" BUTTERFLY VA	LVE & BOX		EACH	\$3,631.00	20	\$47,005.00 \$72,620.00	2	\$11,060.00 \$7,262.00									18	\$65,358.00
2504.602 16" BUTTERFLY VF 2504.602 20" BUTTERFLY VF			EACH EACH	\$4,735.00 \$6,494.00	1	\$4,735.00 \$6,494.00											1	\$4,735.00 \$6,494.00
2504.602 24" BUTTERFLY V		(7)	EACH	\$8,634.00	1	\$8,634.00											1	\$8,634.00
2504.602 VALVE BOX 2504.602 ADJUST VALVE BOX		(7)	EACH EACH	\$910.00 \$450.00	2 2	\$1,820.00 \$900.00	2	\$900.00									2	\$1,820.00
2504.602 ADJUST CURB BOX 2504.602 0.75" CURB STOR	2 ROY	(7)	EACH EACH	\$125.00 \$706.00	62 4	\$7,750.00 \$2,824.00	62	\$7,750.00									4	\$2,824.00
2504.602 1" CURB STOP & E		(7)	EACH	\$728.00	5	\$3,640.00											5	\$3,640.00
2504.603 12" WATERMAIN HI	PE (PIPE BURSTING)		LIN FT	\$142.15	567	\$80,599.05											567	\$80,599.05
2504.603 4" WATERMAIN DUC 2504.603 6" WATERMAIN DUC		(7)	LIN FT LIN FT	\$138.47 \$65.95	19 138	\$2,630.93 \$9,101.10	80	\$5,276.00									19 58	\$2,630.93 \$3,825.10
2504.603 8" WATERMAIN DUC	TILE IRON CL 52		LIN FT	\$58.62	453	\$26,554.86	00	Ç3,270.00									453	\$26,554.86
2504.603 12" WATERMAIN DU 2504.603 16" WATERMAIN DU			LIN FT LIN FT	\$75.12 \$122.01	2769 250	\$208,007.28 \$30,502.50											2769 250	\$208,007.28 \$30,502.50
2504.603 20" WATERMAIN DU 2504.603 24" WATERMAIN I	CTILE IRON CL 52	(7)	LIN FT	\$187.38	61	\$11,430.18											61	\$11,430.18
2504.603 3/4" TYPE K COI	PER PIPE	(7)	LIN FT LIN FT	\$192.34 \$116.85	32 260	\$6,154.88 \$30,381.00	260	\$30,381.00									32	\$6,154.88
2504.603 1" TYPE K COPPER 2504.604 2" INSULATION	PIPE	(7)	LIN FT SQ YD	\$120.26 \$35.00	100 142	\$12,026.00 \$4,970.00	142	\$4,970.00									100	\$12,026.00
2504.608 DUCTILE IRON FIT	TINGS	(, ,	POUND	\$8.22		\$61,239.00	810	\$6,658.20									6640	\$54,580.80
2506.501 CONSTRUCT DRAINA			LIN FT	\$373.00	195	\$72,735.00			195	\$72,735.00								
	GE STRUCTURE DESIGN 48-4020 GE STRUCTURE DESIGN 60-4020		LIN FT LIN FT	\$343.00 \$430.00	16 102	\$5,488.00 \$43,860.00			16 102	\$5,488.00 \$43,860.00								
2506.501 CONSTRUCT DRAINA	GE STRUCTURE DESIGN 72-4020		LIN FT	\$491.00	65	\$31,915.00			65	\$31,915.00								
2506.502 CONSTRUCT DRAINA 2506.502 CONSTRUCT DRAINA			EACH EACH	\$4,996.00 \$5,061.00	4	\$19,984.00 \$20,244.00			4	\$19,984.00 \$20,244.00							-	
2056.601 SEDIMENT COLLECT 2506.516 CASTING ASSEMBLY			EACH EACH	\$4,489.00 \$882.00	4 115	\$17,956.00 \$101,430.00			4 115	\$17,956.00 \$101,430.00								
2506.522 ADJUST FRAME AND	RING CASTING		EACH	\$450.00	113	\$4,950.00			113	\$4,950.00								
2506.602 CONNECT TO EXIST 2506.602 CONSTRUCT SURVEY		(7)	EACH EACH	\$540.00 \$1,800.00	1	\$540.00 \$1,800.00	1	\$1,800.00	1	\$540.00							-	
2506.602 RECONSTRUCT DRAI	NAGE STRUCTURE SPECIAL	(17)	EACH EACH	\$2,170.00	10	\$21,700.00	10	\$21,700.00									1	
2506.602 CASTING ASSEMBI		(7)		\$1,166.00	6	\$6,996.00	6	\$6,996.00										
2521.501 4" CONCRETE WALK 2521.501 6" CONCRETE WALK			SQ FT SQ FT	\$5.14 \$16.26	25130 4262	\$129,168.20 \$69,300.12	25130 4262	\$129,168.20 \$69,300.12										
2531.501 CONCRETE CURB AN 2531.507 6" CONCRETE DRIV		(0)	LIN FT	\$26.79 \$70.30	6030 684	\$161,543.70 \$48,085.20	6030 684	\$161,543.70 \$48,085.20										
2531.507 8" CONCRETE DRIV		(9)	SQ YD SQ YD	\$91.21	142	\$12,951.82	142	\$12,951.82										
2531.618 TRUNCATED DOMES			SQ FT	\$35.76	422	\$15,090.72	422	\$15,090.72									 	
2545.511 LIGHTING UNIT TY			EACH	\$2,865.00	34	\$97,410.00					34	\$97,410.00					1	
2545.511 LIGHTING UNIT TY 2545.513 LUMINAIRE (LED)			EACH EACH	\$3,965.00 \$2,265.00	42	\$15,860.00 \$95,130.00					4 42	\$15,860.00 \$95,130.00					-	
2545.515 LIGHT BASE DESIGN 2545.523 1.5" NON-METALLI			EACH LIN FT	\$985.00 \$5.35	31 5800	\$30,535.00 \$31,030.00					31 5800	\$30,535.00 \$31,030.00					-	
2545.531 UNDERGROUND WIRE	1 COND NO 4		LIN FT	\$2.65	19200	\$50,880.00					19200	\$50,880.00						
2545.531 UNDERGROUND WIRE 2545.541 SERVICE CABINET	1 COND NO 8	(14)	LIN FT EACH	\$1.75 \$15,090.00	5700 2	\$9,975.00 \$30,180.00					5700 2	\$9,975.00 \$30,180.00					 	
2545.551 JUNCTION BOX		, ,	EACH	\$2,235.00		\$13,410.00					6	\$13,410.00						

		Eı	ngineer	's Estima	ate of P	robable	Cost											
	White Bear Lake Reconstruction											EXHIBIT A						
Project Locati																		 '
WSB Project I	No: 03189-000								DJ Sosa		DATE:	5/31/2016						<u> </u>
	<u>I</u>		STATE	MENT OF ES	FIMATED (QUANTITIES												
									PARTIC	PIPATING					NON PART	ICIPATING		
							S.P. 06	2-665-052	S.P. 06	2-665-052	C.P. 16	4-020-138	RAMSEY	COUNTY	C.P. 164	4-020-138	C.P. 10	54-020-138
									STOR	M SEWER	CITY OF	ST PAUL			CITY OF	ST PAUL	CITY O	F ST PAUL
					Proje	ct Total					100%	LOCAL			100%	LOCAL	1009	LOCAL
				'														
Item Number	Description	Notes	Unit	Unit Price	Estimated Quantity	Estimated Cost	Estimated Quantity	Estimated Cost	Estimated Quantity	Estimated Cost	Estimated Quantity	Estimated Cost	Estimated Quantity	Estimated Cost	Estimated Quantity	Estimated Cost	Estimated Quantity	Estimated Cost
	-		-		200000001				g treated a g		2.000.00.01		guarant		<u> </u>		Z state of the	
	TRAFFIC CONTROL ALTERNATE PEDESTRIAN ROUTE		LUMP SUM	\$112,000.00 \$9,500.00	1	\$112,000.00	0.57	\$63,840.00 \$9,500.00	0.16	\$17,920.00	0.1	\$11,200.00	0.01	\$1,120.00	0.03	\$3,360.00	0.13	\$14,560.00
	PORTABLE CHANGEABLE MESSAGE SIGN		UDAY	\$125.00	56	\$7,000.00	56	\$7,000.00								+	-	
2564 521	SIGN PANELS TYPE C		GO EM	č42.00	254	¢10 022 00	254	ė10 000 00										
	INSTALL SIGN TYPE C	(13)	SQ FT EACH	\$43.00 \$100.00	10	\$10,922.00 \$1,000.00	10	\$10,922.00 \$1,000.00										<u> </u>
2565 511	TRAFFIC CONTROL SIGNAL SYSTEM B		GYGMDM	\$257,000.00	1	4057 000 00	0.5	4120 500 00			0.5	d100 F00 00			-			
	TRAFFIC CONTROL SIGNAL SYSTEM B TRAFFIC CONTROL SIGNAL SYSTEM D	(3)	SYSTEM SYSTEM	\$149,000.00	1	\$257,000.00 \$149,000.00	0.5	\$128,500.00			0.5	\$128,500.00	0.5	\$74,500.00	0.5	\$74,500.00	-	<u> </u>
2565.513	EMERGENCY VEHICLE PREEMPTION SYSTEM		LUMP SUM	\$9,000.00	1	\$9,000.00	0.5	\$4,500.00			0.5	\$4,500.00		,				
	FIBER OPTIC INTERCONNECT REVISE SIGNAL SYSTEM A	(7)	LUMP SUM SYSTEM	\$94,000.00 \$37,000.00	1	\$94,000.00 \$37,000.00	0.5	\$47,000.00 \$37,000.00			0.5	\$47,000.00					-	
2565.616	REVISE SIGNAL SYSTEM C		SYSTEM	\$60,000.00	1	\$60,000.00	0.5	\$30,000.00			0.5	\$30,000.00			<u> </u>			
2565.616	TEMPORARY SIGNAL SYSTEM B	(7)	SYSTEM	\$85,000.00	1	\$85,000.00	1	\$85,000.00										
	DECIDUOUS TREE 2.5" CAL B&B		EACH	\$435.00	95	\$41,325.00	95	\$41,325.00							- 	+	1	
	SILT FENCE, TYPE MS STORM DRAIN INLET PROTECTION		LIN FT EACH	\$3.32 \$310.00	222 66	\$737.04 \$20,460.00	222 66	\$737.04 \$20,460.00							·		1	-
	SEDIMENT CONTROL LOG TYPE COMPOST	(8)	LIN FT	\$8.00	400	\$3,200.00	400	\$3,200.00							 I	+		
	STABILIZED CONSTRUCTION EXIT		LUMP SUM	\$11,600.00	1	\$11,600.00	1	\$11,600.00	0.16	#2 200 00	0.1	#2 000 00	0.01	\$200.00	0.02	\$600.00	0.12	42 600 00
	EROSION CONTROL SUPERVISOR FERTILIZER TYPE 3		POUND	\$20,000.00 \$2.00	250	\$20,000.00 \$500.00	0.57 250	\$11,400.00 \$500.00	0.16	\$3,200.00	0.1	\$2,000.00	0.01	\$200.00	0.03	\$600.00	0.13	\$2,600.00
	COMMON TOPSOIL BORROW (LV) SODDING TYPE LAWN		CU YD SQ YD	\$26.60 \$5.65	576 3457	\$15,321.60 \$19,532.05	576 3457	\$15,321.60 \$19,532.05				-						
	MULCH MATERIAL TYPE 6		CU YD	\$100.00	33	\$3,300.00	33	\$3,300.00							 I	-	-	
	HYDRAULIC MULCH MATRIX		POUND	\$1.77	4495	\$7,956.15	4495	\$7,956.15										<u> </u>
2582.501	PAVEMENT MESSAGE (LT ARROW) EPOXY		EACH	\$295.00	6	\$1,770.00	6	\$1,770.00									-	1
	4" SOLID LINE PAINT	(8)	LIN FT	\$0.45	1000	\$450.00	1000	\$450.00										
	4" DOUBLE SOLID LINE PAINT 4" SOLID LINE EPOXY	(8)	LIN FT	\$0.90 \$0.38	2300	\$2,070.00 \$997.88	2300 2626	\$2,070.00 \$997.88									-	-
2582.502	4" BROKEN LINE EPOXY		LIN FT	\$0.38	6744	\$2,562.72	6744	\$2,562.72								-		
	24" SOLID LINE EPOXY 12" SOLID LINE EPOXY		LIN FT LIN FT	\$7.70 \$5.50	245 858	\$1,886.50 \$4,719.00	245 858	\$1,886.50 \$4,719.00	<u> </u>								<u> </u>	-
2582.502	4" DOUBLE SOLID LINE EPOXY		LIN FT	\$0.76	8819	\$6,702.44	8819	\$6,702.44							 I	+		
	CROSSWALK EPOXY	(12)	SQ FT	\$18.20	960	\$17,472.00	960	\$17,472.00										
																+		
SUBTOTAL					ود ۵۱	1,262.13	63.2	20,649	6777	6,146	867	2,098	201	,804	e177	7,386	27	34,180
PORIOIAL					\$3,6I	1,202.13	, ş3,3	20,047	\$77	0,140	\$67	2,030	\$80	,004	\$177	7,300	\$76	T,10U
CONSTRUCTIO	ON COSTS				\$5,8	311,262	\$3,3	20,649	\$77	6,146	\$67	2,098	\$80	,804	\$177	7,386	\$78	34,180

Engineers_Est_WBA(low bid)(group summary) 3

FUNDING 20% CSAH SP 062-665-052 80% FEDERAL AID

GROUP 1-A

ITEM			TOTAL			
NUMBER	ITEM	UNIT	ESTIMATED QUANTITY		UNIT PRICE	AMOUNT
2021.501	MOBILIZATION	LUMP SUM	0.57	\$	482,900.00	\$ 275,253.00
2031.501	FIELD OFFICE TYPE D - MODIFIED	EACH	0.57	\$	15,500.00	\$ 8,835.00
2041.610	TRAINEES	HOURS	600	\$	1.00	\$ 600.00
2101.502	CLEARING	TREE	82	\$	200.00	\$ 16,400.00
2101.507	GRUBBING	TREE	82	\$	200.00	\$ 16,400.00
2102.502	PAVEMENT MARKING REMOVAL	LIN FT	1000	\$	1.00	\$ 1,000.00
2104.501	REMOVE CURB AND GUTTER	LIN FT	5777	\$	6.42	\$ 37,088.34
2104.501	REMOVE WATER MAIN	LIN FT	103	\$	3.00	\$ 309.00
2104.501	REMOVE WATER SERVICE PIPE	LIN FT	260		3.00	\$ 780.00
2104.503	REMOVE CONCRETE PAVEMENT	SQ FT	4522		1.42	\$ 6,421.24
2104.505	REMOVE CONCRETE WALK	SQ YD	3421	\$	11.56	\$ 39,546.76
2104.505	REMOVE CONCRETE DRIVEWAY PAVEMENT	SQ YD	977	\$	15.85	\$ 15,485.45
2104.505	REMOVE BITUMINOUS DRIVEWAY PAVEMENT	SQ YD	8	\$	25.00	\$ 200.00
2104.505	REMOVE PAVEMENT SPECIAL	SQ YD	18051		17.79	\$ 321,127.29
2104.509	REMOVE HYDRANT	EACH	7	\$	310.00	\$ 2,170.00
2104.509	REMOVE SIGN BASE	EACH	2	\$	400.00	\$ 800.00
2104.509	REMOVE SIGN TYPE C	EACH	77	\$	25.00	\$ 1,925.00
2104.509	REMOVE SIGNAL SYSTEM B	EACH	0.5		3,296.00	\$ 1,648.00
2104.511	SAWING CONCRETE PAVEMENT (FULL DEPTH)	LIN FT	289		8.00	\$ 2,312.00
2104.513	SAWING BITUMINOUS PAVEMENT (FULL DEPTH)	LIN FT	869		2.90	\$ 2,520.10
	SALVAGE SIGN TYPE SPECIAL	EACH	10		25.00	\$ 250.00
2104.523	SALVAGE HYDRANT	EACH	1	\$	1,580.00	\$ 1,580.00
2105.501	COMMON EXCAVATION (EV)	CU YD	14172		16.97	\$ 240,498.84
2105.522	SELECT GRANULAR BORROW (CV)	CU YD	12754		21.83	\$ 278,419.82
2105.523	COMMON BORROW (CV)	CU YD	199	(S)	1.00	\$ 199.00
2105.619	MINOR GRADING	RDST	7	\$	611.00	\$ 4,277.00
2123.610	TRACTOR MOUNTD BACKHOE	HOUR	50		140.00	\$ 7,000.00
2123.610	STREET SWEEPER (WITH PICKUP BROOM)	HOUR	175		140.00	\$ 24,500.00
2130.501		MGAL	100		40.00	\$ 4,000.00
2211.503	AGGREGATE BASE (CV) CLASS 6	CU YD	3851		39.20	\$ 150,959.20
2301.602	DRILL & GROUT REINFOCEMENT BAR	EACH	300	\$	13.31	\$ 3,993.00

FUNDING 20% CSAH SP 062-665-052 80% FEDERAL AID

GROUP 1-A

			TOTAL			
ITEM NUMBER	ITEM	UNIT	ESTIMATED		UNIT PRICE	AMOUNT
	BITUMINOUS MATERIAL FOR TACK COAT	GALLON	QUANTITY 2123		2.60	\$ 5,519.80
	TYPE SP 9.5 BITUMINOUS MIXTURE FOR PATCHING	TON	100		160.00	\$ 16,000.00
	TYPE SP 9.5 WEARING COURSE MIXTURE (3,B)	TON	150		105.00	\$ 15,750.00
	TYPE SP 12.5 WEARING COURSE MIXTURE (4,F)	TON	4820		74.00	\$ 356,680.00
	TYPE SP 12.5 NON WEARING COURSE MIXTURE (4,B)	TON	3620		61.00	\$ 220,820.00
	SALVAGE & INSTALL METAL RAILING	LIN FT	176		133.00	\$ 23,408.00
	CONCRETE STAIRWAY	EACH	36		333.00	\$ 11,988.00
2502.521	4" TP PIPE DRAIN	LIN FT	492		23.83	\$ 11,724.36
2503.602	CONSTRUCT BULKHEAD	EACH	15		300.00	\$ 4,500.00
2504.602	CONNECT TO EXISTING WATER SERVICE	EACH	24	\$	349.00	\$ 8,376.00
2504.602	HYDRANT	EACH	6		6,070.00	\$ 36,420.00
2504.602	INSTALL HYDRANT	EACH	1	\$	1,580.00	\$ 1,580.00
2504.602	6" GATE VALVE & BOX	EACH	1	\$	2,267.00	\$ 2,267.00
2504.602	8" GATE VALVE & BOX	EACH	4		2,765.00	\$ 11,060.00
2504.602	12" BUTTERFLY VALVE & BOX	EACH	2	\$	3,631.00	\$ 7,262.00
2504.602	ADJUST VALVE BOX	EACH	2		450.00	\$ 900.00
2504.602	ADJUST CURB BOX	EACH	62		125.00	\$ 7,750.00
2504.603	6" WATERMAIN DUCTILE IRON CL 52	LIN FT	80		65.95	\$ 5,276.00
2504.603	3/4" TYPE K COPPER PIPE	LIN FT	260		116.85	\$ 30,381.00
2504.604	2" INSULATION	SQ YD	142		35.00	\$ 4,970.00
2504.608	DUCTILE IRON FITTINGS	POUND	810		8.22	\$ 6,658.20
	CONSTRUCT SURVEY CONTROL STRUCTURE	EACH	1	\$	1,800.00	\$ 1,800.00
2506.602	RECONSTRUCT DRAINAGE STRUCTURE SPECIAL	EACH	10		2,170.00	\$ 21,700.00
2506.602	CASTING ASSEMBLY SPECIAL	EACH	6	٠	1,166.00	\$ 6,996.00
	4" CONCRETE WALK	SQ FT	25130		5.14	\$ 129,168.20
	6" CONCRETE WALK	SQ FT	4262		16.26	\$ 69,300.12
	CONCRETE CURB AND GUTTER DESIGN B624	LIN FT	6030		26.79	\$ 161,543.70
	6" CONCRETE DRIVEWAY PAVEMENT	SQ YD	684		70.30	\$ 48,085.20
	8" CONCRETE DRIVEWAY PAVEMENT	SQ YD	142		91.21	\$ 12,951.82
	TRUNCATED DOMES	SQ FT	422		35.76	\$ 15,090.72
2563.601	TRAFFIC CONTROL	LUMP SUM	0.57	\$	112,000.00	\$ 63,840.00

FUNDING 20% CSAH SP 062-665-052 80% FEDERAL AID

GROUP 1-A

LTENA			TOTAL			
ITEM NUMBER	ITEM	UNIT	ESTIMATED		UNIT PRICE	AMOUNT
	ALTERNATE PEDESTRIAN ROUTE	LUMP SUM	QUANTITY 1	\$	9,500.00	\$ 9,500.00
	PORTABLE CHANGEABLE MESSAGE SIGN	UDAY	56		125.00	\$ 7,000.00
	SIGN PANELS TYPE C	SQ FT	254		43.00	\$ 10,922.00
	INSTALL SIGN TYPE SPECIAL	EACH	10		100.00	\$ 1,000.00
	TEMPORARY SIGNAL SYSTEM B	SYSTEM	10	\$	85,000.00	\$ 85,000.00
	DECIDUOUS TREE 2.5" CAL B&B	EACH	95		435.00	\$ 41,325.00
	SILT FENCE, TYPE MS	LIN FT	222		3.32	\$ 737.04
	STORM DRAIN INLET PROTECTION	EACH	66		310.00	\$ 20,460.00
	SEDIMENT CONTROL LOG TYPE COMPOST	LIN FT	400		8.00	\$ 3,200.00
	STABILIZED CONSTRUCTION EXIT	LUMP SUM	1	\$	11,600.00	\$ 11,600.00
	EROSION CONTROL SUPERVISOR	LUMP SUM	0.57	_	20,000.00	\$ 11,400.00
	FERTILIZER TYPE 3	POUND	250	_	2.00	\$ 500.00
2574.525	COMMON TOPSOIL BORROW (LV)	CU YD	576		26.60	\$ 15,321.60
2575.505	SODDING TYPE LAWN	SQ YD	3457	\$	5.65	\$ 19,532.05
2575.513	MULCH MATERIAL TYPE 6	CU YD	33	\$	100.00	\$ 3,300.00
2575.560	HYDRAULIC MULCH MATRIX	POUND	4495	\$	1.77	\$ 7,956.15
2582.501	PAVEMENT MESSAGE (LT ARROW) EPOXY	EACH	6	\$	295.00	\$ 1,770.00
2582.502	4" SOLID LINE PAINT	LIN FT	1000	\$	0.45	\$ 450.00
2582.502	4" DOUBLE SOLID LINE PAINT	LIN FT	2300	\$	0.90	\$ 2,070.00
2582.502	4" SOLID LINE EPOXY	LIN FT	2626	\$	0.38	\$ 997.88
2582.502	4" BROKEN LINE EPOXY	LIN FT	6744	\$	0.38	\$ 2,562.72
2582.502	24" SOLID LINE EPOXY	LIN FT	245	\$	7.70	\$ 1,886.50
2582.502	12" SOLID LINE EPOXY	LIN FT	858	\$	5.50	\$ 4,719.00
	4" DOUBLE SOLID LINE EPOXY	LIN FT	8819		0.76	\$ 6,702.44
2582.503	CROSSWALK EPOXY	SQ FT	960	\$	18.20	\$ 17,472.00

GROUP 1-A SUBTOTAL \$3,073,648.54

* ENGINEERING AND CONSTRUCTION COST APPLY TO GROUP TOTAL	
12% CSAH DESIGN ENGINEERING COST	\$ 368,837.82
12% CSAH CONSTRUCTION ENGINEERING COST	\$ 368,837.82
COUNTY CSAH PORTION *	\$ 935,115.13
GROUP 1-A CSAH TOTAL	\$1,672,790.78

 FEDERAL AID PORTION *
 \$2,138,533.41

 GROUP 1-A FEDERAL TOTAL
 \$2,138,533.41

FUNDING 20% CSAH SP 062-665-052 80% FEDERAL AID

GROUP 1-B

ITEM			TOTAL				
NUMBER	ITEM	UNIT	ESTIMATED QUANTITY	ı	JNIT PRICE		AMOUNT
	TRAFFIC CONTROL SIGNAL SYSTEM B	SYSTEM	0.5		257,000.00	\$	128,500.00
	EMERGENCY VEHICLE PREEMPTION SYSTEM	LUMP SUM	0.5		9,000.00	\$	4,500.00
	FIBER OPTIC INTERCONNECT	LUMP SUM	0.5		94,000.00	\$	47,000.00
2565.616	REVISE SIGNAL SYSTEM A	SYSTEM	1		37,000.00	\$	37,000.00
2565.616	REVISE SIGNAL SYSTEM C	SYSTEM	0.5	\$	60,000.00	\$	30,000.00
GROUP 1-F	3			SU	BTOTAL	\$	247,000.00
*	ENGINEERING AND CONSTRUCTION COST/CREDITS A	PPLY TO GRO	UP TOTAL				
	12% CSAH DESIGN ENGINEERING COST					\$	29,640.00
	12% CSAH CONSTRUCTION ENGINEERING COST					\$	29,640.00
	COUNTY CSAH PORTION *					\$	75,146.34
GROUP 1-E	B CSAH TOTAL					\$	134,426.34
*	GROUP 1-B INCLUDES A CREDIT TO THE CITY OF SAIN	T PAUL FOR S	SIGNAL INSP	ECT	ION		
	10% CONSTRUCTION ENGINEERING CREDIT					\$	(24,700.00)
GROUP 1-E	B CITY OF SAINT PAUL MSAS TOTAL					\$	(24,700.00)
	FEDERAL AID PORTION *					\$	171,853.66
GROUP 1-E	B FEDERAL TOTAL					\$	171,853.66
FUNDING	CSAH SP 062-665-052						
GROUP 17	TOTAL (GROUP1-A + GROUP 1-B)					\$1	,807,217.12
	MSAS 164-020-138						
GROUP 17	TOTAL (GROUP 1-B)					\$	(24,700.00)
	FEDERAL AID						
GROUP 1 7	「OTAL (GROUP1-A + GROUP 1-B)					\$2	2,310,387.07

* NOTE: ELIGIBLE ITEM COSTS EXCEED AVALIABLE FEDERAL FUNDS. 69.5763806% OF THE COST OF THE ESTIMATED ELIGIBLE ITEMS WILL BE PAID BY FEDERAL FUNDS. REMAINDERS WILL BE APPLIED TO THE COUNTY CSAH PORTION.

GROUP 2 WHITE BEAR AVENUE STORM SEWER

FUNDING 20% CSAH SP 062-665-052 80% FEDERAL AID

NUMBER ITEM UNIT ESTIMATED QUANTITY 2021.501 MOBILIZATION LUMP SUM 0.16 \$ 2031.501 FIELD OFFICE TYPE D - MODIFIED EACH 0.16 \$ 2104.501 REMOVE SEWER PIPE (STORM) LIN FT 3652 \$ 2104.509 REMOVE MANHOLE OR CATCH BASIN EACH 47 \$ 2104.509 REMOVE CASTING EACH 63 \$ 2501.521 44" SPAN RC PIPE-ARCH SEWER CL IIA 0 812 \$	15,500.00 11.49 750.00 100.00	AMOUNT \$ 77,264.00 \$ 2,480.00 \$ 41,961.48 \$ 35,250.00
2031.501 FIELD OFFICE TYPE D - MODIFIED EACH 0.16 \$ 2104.501 REMOVE SEWER PIPE (STORM) LIN FT 3652 \$ 2104.509 REMOVE MANHOLE OR CATCH BASIN EACH 47 \$ 2104.509 REMOVE CASTING EACH 63 \$	15,500.00 11.49 750.00 100.00	\$ 2,480.00 \$ 41,961.48
2104.501 REMOVE SEWER PIPE (STORM) LIN FT 3652 \$ 2104.509 REMOVE MANHOLE OR CATCH BASIN EACH 47 \$ 2104.509 REMOVE CASTING EACH 63 \$	11.49 750.00 100.00	\$ 41,961.48
2104.509 REMOVE MANHOLE OR CATCH BASIN EACH 47 \$ 2104.509 REMOVE CASTING EACH 63 \$	750.00 100.00	
2104.509 REMOVE CASTING EACH 63 \$	100.00	\$ 35,250.00
2501.521 44" SPAN RC PIPE-ARCH SEWER CL IIA 0 812 \$	404.00	\$ 6,300.00
	104.36	\$ 84,740.32
2503.541 15" RC PIPE SEWER DESIGN 3006 CLASS V LIN FT 1709 \$	43.82	\$ 74,888.38
2503.541 18" RC PIPE SEWER DESIGN 3006 CLASS III LIN FT 808 \$	45.54	\$ 36,796.32
2503.541 21" RC PIPE SEWER DESIGN 3006 CLASS III LIN FT 575 \$	47.79	\$ 27,479.25
2503.541 24" RC PIPE SEWER DESIGN 3006 CLASS III LIN FT 394 \$	49.25	\$ 19,404.50
2503.541 27" RC PIPE SEWER DESIGN 3006 CLASS III LIN FT 416 \$	55.00	\$ 22,880.00
2503.602 CONNECT TO EXISTING STORM SEWER EACH 12 \$	540.00	\$ 6,480.00
2506.501 CONSTRUCT DRAINAGE STRUCTURE DESIGN 7B LIN FT 195 \$	373.00	\$ 72,735.00
2506.501 CONSTRUCT DRAINAGE STRUCTURE DESIGN 48-4020 LIN FT 16 \$	343.00	\$ 5,488.00
2506.501 CONSTRUCT DRAINAGE STRUCTURE DESIGN 60-4020 LIN FT 102 \$	430.00	\$ 43,860.00
2506.501 CONSTRUCT DRAINAGE STRUCTURE DESIGN 72-4020 LIN FT 65 \$	491.00	\$ 31,915.00
2506.502 CONSTRUCT DRAINAGE DESIGN SPECIAL 1 EACH 4 \$	4,996.00	\$ 19,984.00
2506.502 CONSTRUCT DRAINAGE DESIGN SPECIAL 2 EACH 4 \$	5,061.00	\$ 20,244.00
2056.601 SEDIMENT COLLECTION DEVICE EACH 4 \$	4,489.00	\$ 17,956.00
2506.516 CASTING ASSEMBLY EACH 115 \$	882.00	\$ 101,430.00
2506.522 ADJUST FRAME AND RING CASTING EACH 11 \$	450.00	\$ 4,950.00
2506.602 CONNECT TO EXISITNG STORM SEWER EACH 1 \$	540.00	\$ 540.00
2563.601 TRAFFIC CONTROL LUMP SUM 0.16 \$	112,000.00	\$ 17,920.00
2573.550 EROSION CONTROL SUPERVISOR LUMP SUM 0.16 \$	20,000.00	\$ 3,200.00

GROUP 2 SUBTOTAL \$ 776,146.25

\$ 93,137.55

\$ 93,137.55

\$ 236,131.78

\$ 422,406.88

^{*} ENGINEERING AND CONSTRUCTION COST APPLY TO GROUP TOTAL 12% CSAH DESIGN ENGINEERING COST 12% CSAH CONSTRUCTION ENGINEERING COST COUNTY CSAH PORTION * GROUP 2-A CSAH TOTAL

GROUP 2 WHITE BEAR AVENUE STORM SEWER

FUNDING 20% CSAH SP 062-665-052 80% FEDERAL AID

 FEDERAL AID PORTION *
 \$ 540,014.47

 GROUP 2-A FEDERAL TOTAL
 \$ 540,014.47

FUNDING CSAH SP 062-665-052 GROUP 2 TOTAL

\$ 422,406.88

FUNDING FEDERAL AID GROUP 2 TOTAL

\$ 540,014.47

* NOTE: ELIGIBLE ITEM COSTS EXCEED AVALIABLE FEDERAL FUNDS. 69.5763806% OF THE COST OF THE

ESTIMATED ELIGIBLE ITEMS WILL BE PAID BY FEDERAL FUNDS. REMAINDERS WILL BE APPLIED TO THE

COUNTY CSAH PORTION.

GROUP 3 CITY OF SAINT PAUL

FUNDING 20% CP 062-665-052 80% FEDERAL AID

GROUP 3-A FEDERAL TOTAL

GROUP 3-A

ITEM NUMBER	ITEM	UNIT	TOTAL ESTIMATED	UNIT PRICE	AMOUNT
	MOBILIZATION	LUMP SUM	QUANTITY 0.1	482,900.00	\$ 48,290.00
	FIELD OFFICE TYPE D - MODIFIED	EACH	0.1	\$ 15,500.00	\$ 1,550.00
	REMOVE SERVICE CABINET	EACH	2	\$ 525.00	\$ 1,050.00
	REMOVE SIGNAL SYSTEM B	EACH	0.5	3,296.00	\$ 1,648.00
	SALVAGE LIGHTING UNIT	EACH	7	\$ 350.00	\$ 2,450.00
2104.601	HAUL SALVAGED MATERIAL	LUMP SUM	1	\$ 2,500.00	\$ 2,500.00
2503.601	TELEVISE PROJECT SANITARY SEWER	LS	1	\$ 17,000.00	\$ 17,000.00
2545.511	LIGHTING UNIT TYPE SPECIAL 1 (L14)	EACH	34	\$ 2,865.00	\$ 97,410.00
2545.511	LIGHTING UNIT TYPE SPECIAL 2 (2L14)	EACH	4	\$ 3,965.00	\$ 15,860.00
2545.513	LUMINAIRE (LED)	EACH	42	\$ 2,265.00	\$ 95,130.00
2545.515	LIGHT BASE DESIGN TYPE STANDARD	EACH	31	\$ 985.00	\$ 30,535.00
2545.523	1.5" NON-METALLIC CONDUIT	LIN FT	5800	\$ 5.35	\$ 31,030.00
2545.531	UNDERGROUND WIRE 1 COND NO 4	LIN FT	19200	\$ 2.65	\$ 50,880.00
2545.531	UNDERGROUND WIRE 1 COND NO 8	LIN FT	5700	\$ 1.75	\$ 9,975.00
2545.541	SERVICE CABINET	EACH	2	\$ 15,090.00	\$ 30,180.00
2545.551	JUNCTION BOX	EACH	6	\$ 2,235.00	\$ 13,410.00
2563.601	TRAFFIC CONTROL	LUMP SUM	0.1	\$ 112,000.00	\$ 11,200.00
2573.550	EROSION CONTROL SUPERVISOR	LUMP SUM	0.1	\$ 20,000.00	\$ 2,000.00

GROUP 3-A SUBTOTAL \$ 462,098.00

GROUP 3-A	SUBTUTAL	Ф	462,098.00
* ENGINEERING AND CONSTRUCTION FEES APPLY TO GROUP TOTAL			
12% DESIGN ENGINEERING FEE		\$	55,451.76
2% CONSTRUCTION ENGINEERING FEE		\$	9,241.96
CITY OF SAINT PAUL PORTION		\$	140,586.94
GROUP 3-A CITY OF SAINT PAUL MSAS TOTAL		\$	205,280.66
FEDERAL AID PORTION *		\$	321 511 06

GROUP 3 CITY OF SAINT PAUL

FUNDING 20% CP 062-665-052 80% FEDERAL AID

GROUP 3-B

ITENA			TOTAL			
ITEM NUMBER	ITEM	UNIT	ESTIMATED QUANTITY	,	UNIT PRICE	AMOUNT
2565.511	TRAFFIC CONTROL SIGNAL SYSTEM B	SYSTEM	0.5	\$	257,000.00	\$ 128,500.00
2565.513	EMERGENCY VEHICLE PREEMPTION SYSTEM	LUMP SUM	0.5	\$	9,000.00	\$ 4,500.00
2565.603	FIBER OPTIC INTERCONNECT	LUMP SUM	0.5	\$	94,000.00	\$ 47,000.00
2565.616	REVISE SIGNAL SYSTEM C	SYSTEM	0.5	\$	60,000.00	\$ 30,000.00
GROUP 3-E	3			SL	JBTOTAL	\$ 210,000.00
*	ENGINEERING AND CONSTRUCTION FEES APPLY TO GR	ROUP TOTAL				
	12% DESIGN ENGINEERING FEE					\$ 25,200.00
	CITY OF SAINT PAUL PORTION *					\$ 63,889.60
GROUP 3-E	B CITY OF SAINT PAUL TOTAL					\$ 89,089.60
	FEDERAL AID PORTION *					\$ 146,110.40
GROUP 3-E	B FEDERAL TOTAL					\$ 146,110.40
	MSAS 164-020-138					
GROUP 3 T	OTAL (GROUP 3-A + GROUP 3-B)					\$ 294,370.26
ELINDING	FEDERAL AID					
FUNDING	FEDERAL AID					

* NOTE: ELIGIBLE ITEM COSTS EXCEED AVALIABLE FEDERAL FUNDS. 69.5763806% OF THE COST OF THE

ESTIMATED ELIGIBLE ITEMS WILL BE PAID BY FEDERAL FUNDS. REMAINDERS WILL BE APPLIED TO THE

\$ 467,621.46

CITY OF SAINT PAUL PORTION.

GROUP 3 TOTAL (GROUP 3-A + GROUP 3-B)

GROUP 4 RAMSEY COUNTY NON-PARTICIPATING

FUNDING 100% LOCAL COUNTY

ITEM NUMBER	ITEM	UNIT	TOTAL ESTIMATED QUANTITY		UNIT PRICE		AMOUNT		
2021.501	MOBILIZATION	LUMP SUM	0.01	\$	482,900.00	\$	4,829.00		
2031.501	FIELD OFFICE TYPE D - MODIFIED	EACH	0.01	\$	15,500.00	\$	155.00		
2563.601	TRAFFIC CONTROL	LUMP SUM	0.01	\$	112,000.00	\$	1,120.00		
2565.511	TRAFFIC CONTROL SIGNAL SYSTEM D	SYSTEM	0.5	\$	149,000.00	\$	74,500.00		
2573.550	EROSION CONTROL SUPERVISOR	LUMP SUM	0.01	\$	20,000.00	\$	200.00		
GROUP 4				SU	BTOTAL	\$	80,804.00		
	12% COUNTY DESIGN ENGINEERING COST					\$	9,696.48		
	12% COUNTY CONSTRUCTION ENGINEERING COST					\$	9,696.48		
FUNDING	100% LOCAL COUNTY								
GROUP 4 T	OTAL					\$	100,196.96		
* GROUP 4 INCLUDES A CREDIT TO THE CITY OF SAINT PAUL FOR SIGNAL INSPECTION									
	10% CONSTRUCTION ENGINEERING CREDIT \$								
FUNDING	FUNDING 100% CITY OF SAINT PAUL LOCAL \$								

GROUP 5 CITY OF SAINT PAUL NON-PARTICIPATING

FUNDING 100% CITY OF SAINT PAUL LOCAL

ITEM NUMBER	ITEM	UNIT	TOTAL ESTIMATED QUANTITY	UNIT PRICE	AMOUNT
2021.501	MOBILIZATION	LUMP SUM	0.03	\$ 482,900.00	\$ 14,487.00
2104.501	REMOVE SANITARY SERVICE PIPE	LIN FT	710	\$ 3.00	\$ 2,130.00
2031.501	FIELD OFFICE TYPE D - MODIFIED	EACH	0.03	\$ 15,500.00	\$ 465.00
2105.607	HAUL & DISPOSE OF CONTAMINATED MATERIAL	CU YD	70	\$ 72.65	\$ 5,085.50
2451.609	GRANULAR BACKFILL	TON	240	\$ 17.22	\$ 4,132.80
2503.602	CONNECT TO EXISTING SANITARY SEWER	EACH	20	\$ 540.00	\$ 10,800.00
2503.602	CONNECT TO EXISTING SANITARY SEWER SERVICE	EACH	20	\$ 370.00	\$ 7,400.00
2503.603	6" PVC PIPE SEWER	LIN FT	712	\$ 76.44	\$ 54,425.28
2563.601	TRAFFIC CONTROL	LUMP SUM	0.03	\$ 112,000.00	\$ 3,360.00
2565.511	TRAFFIC CONTROL SIGNAL SYSTEM D	SYSTEM	0.5	\$ 149,000.00	\$ 74,500.00
2573.550	EROSION CONTROL SUPERVISOR	LUMP SUM	0.03	\$ 20,000.00	\$ 600.00

GROUP 5

2% DESIGN ENGINEERING FEE

2% CONSTRUCTION ENGINEERING FEE

FUNDING 100% CITY OF SAINT PAUL LOCAL GROUP 5 TOTAL

SUBTOTAL \$ 177,385.58

3,547.71

3,547.71

\$ 184,481.00

GROUP 6 SAINT PAUL REGIONAL WATER SERVICES NON-PARTICIPATING

FUNDING 100% SAINT PAUL REGIONAL WATER SERVICES

ITEM			TOTAL			
NUMBER	ITEM	UNIT	ESTIMATED QUANTITY		UNIT PRICE	AMOUNT
2021.501	MOBILIZATION	LUMP SUM	0.13	\$	482,900.00	\$ 62,777.00
	FIELD OFFICE TYPE D - MODIFIED	EACH	0.13		15,500.00	\$ 2,015.00
	REMOVE WATER MAIN	LIN FT	3783	_	3.00	\$ 11,349.00
2104.501	REMOVE WATER SERVICE PIPE	LIN FT	75	_	3.00	\$ 225.00
2104.501	REMOVE SANITARY SERVICE PIPE	LIN FT	180	\$	3.00	\$ 540.00
2104.509	REMOVE UTILITY VAULT	EACH	2	\$	1,000.00	\$ 2,000.00
2104.509	REMOVE HYDRANT	EACH	4	\$	310.00	\$ 1,240.00
2105.607	HAUL & DISPOSE OF CONTAMINATED MATERIAL	CU YD			72.65	\$ 7,265.00
2451.609	GRANULAR BACKFILL	TON	1659	\$	17.22	\$ 28,567.98
2503.602	CONNECT TO EXISTING SANITARY SEWER SERVICE	EACH	36		370.00	\$ 13,320.00
2503.603	6" PVC PIPE SEWER	LIN FT	180	\$	76.44	\$ 13,759.20
2504.602	CONNECT TO EXISTING WATER MAIN	EACH	19	\$	1,975.00	\$ 37,525.00
2504.602	CONNECT TO EXISTING WATER SERVICE	EACH	1	\$	349.00	\$ 349.00
2504.602	HYDRANT	EACH	3	\$	6,070.00	\$ 18,210.00
2504.602	4" GATE VALVE & BOX	EACH	1	\$	2,116.00	\$ 2,116.00
2504.602	8" GATE VALVE & BOX	EACH	13	\$	2,765.00	\$ 35,945.00
2504.602	12" BUTTERFLY VALVE & BOX	EACH	18	\$	3,631.00	\$ 65,358.00
2504.602	16" BUTTERFLY VALVE & BOX	EACH	1	\$	4,735.00	\$ 4,735.00
2504.602	20" BUTTERFLY VALVE & BOX	EACH	1	\$	6,494.00	\$ 6,494.00
2504.602	24" BUTTERFLY VALVE & BOX	EACH	1	\$	8,634.00	\$ 8,634.00
2504.602	VALVE BOX	EACH	2	\$	910.00	\$ 1,820.00
2504.602	0.75" CURB STOP & BOX	EACH	4	\$	706.00	\$ 2,824.00
2504.602	1" CURB STOP & BOX	EACH	5	\$	728.00	\$ 3,640.00
2504.603	12" WATERMAIN HDPE (PIPE BURSTING)	LIN FT	567	\$	142.15	\$ 80,599.05
2504.603	4" WATERMAIN DUCTILE IRON CL 52	LIN FT	19	\$	138.47	\$ 2,630.93
2504.603	6" WATERMAIN DUCTILE IRON CL 52	LIN FT	58	\$	65.95	\$ 3,825.10
2504.603	8" WATERMAIN DUCTILE IRON CL 52	LIN FT	453		58.62	\$ 26,554.86
2504.603	12" WATERMAIN DUCTILE IRON CL 52	LIN FT	2769	\$	75.12	\$ 208,007.28

GROUP 6 SAINT PAUL REGIONAL WATER SERVICES NON-PARTICIPATING

FUNDING 100% SAINT PAUL REGIONAL WATER SERVICES

ITEM			TOTAL			
NUMBER	ITEM	UNIT	ESTIMATED QUANTITY	ı	UNIT PRICE	AMOUNT
2504.603	16" WATERMAIN DUCTILE IRON CL 52	LIN FT	250	\$	122.01	\$ 30,502.50
2504.603	20" WATERMAIN DUCTILE IRON CL 52	LIN FT	61	\$	187.38	\$ 11,430.18
2504.603	24" WATERMAIN DUCTILE IRON CL 52	LIN FT	32	\$	192.34	\$ 6,154.88
2504.603	1" TYPE K COPPER PIPE	LIN FT	100	\$	120.26	\$ 12,026.00
2504.608	DUCTILE IRON FITTINGS	POUND	6640	\$	8.22	\$ 54,580.80
2563.601	TRAFFIC CONTROL	LUMP SUM	0.13	\$	112,000.00	\$ 14,560.00
2573.550	EROSION CONTROL SUPERVISOR	LUMP SUM	0.13	\$	20,000.00	\$ 2,600.00

GROUP 6

12% DESIGN ENGINEERING FEE

2% CONSTRUCTION ENGINEERING FEE

SUBTOTAL \$ 784,179.76 94,101.57

15,683.60

FUNDING 100% SAINT PAUL REGIONAL WATER SERVICES GROUP 6 TOTAL

\$ 893,964.93

COOPERATIVE COST SHARE UNDERSTANDING

	Payment Groups	Federal Aid	Ra	msey County CSAH	City	of Saint Paul		nsey County -Participating		y of Saint Paul n-Participating	Saint Paul Regiona Water Services (SPWRS)		Total
Group 1-A	White Bear Avenue							·				1	
	Roadway	\$ 2,138,533.41	\$	935,115.13								\$	3,073,648.54
	100% S.A.P. 62-665-052												
Group 1-B	White Bear Avenue												
	Roadway (Signals)	\$ 171,853.66	\$	75,146.34								\$	247,000.00
	100% S.A.P. 62-665-052												
Group 2	White Bear Avenue												
	Storm Sewer	\$ 540,014.47	\$	236,131.78								\$	776,146.25
	100% S.A.P. 62-665-052												
	City Of Saint Paul 100%												
	Lighting, Sanitary Sewer	\$ 321,511.06			\$	140,586.94						\$	462,098.00
	100% M.S.A.S. 164-020-138												
	City Of Saint Paul 100%												
	Signals, Interconnect	\$ 146,110.40			\$	63,889.60						\$	210,000.00
	100% M.S.A.S. 164-020-138											<u> </u>	
Group 4	Ramsey County						\$	80,804.00				\$	80,804.00
	100% Ramsey County Loca						Ψ	00,004.00				Ψ.	00,004.00
	City Of Saint Paul 100%								١.			١.	
	Sanitary Sewer Services								\$	177,385.58		\$	177,385.58
	100% Local											_	
	Saint Paul Regional Water Services												
	Water Main and Services										\$ 784,179.76	\$	784,179.76
	100% Local Funds SPRWS												
		0.040.000.00	•		•		•						= 0.1.1 0.00 1.0
	Anticipated Construction Total Based on Low Bid	\$ 3,318,023.00	\$	1,246,393.25	\$	204,476.54	\$	80,804.00	\$	177,385.58	\$ 784,179.76	\$	5,811,262.13

WHITE BEAR AVENUE RECONSTRUCTION Exhibit A

Cost Split based on Engineer's Estimate [(ENGINEERING AND CONSTRUCTION COST/CREDITS APPLY TO GROUP TOTAL)													
Group 1-A	12% COUNTY DESIGN ENGINEERING COST 12% COUNTY CONSTRUCTION ENGINEERING COST	GROUP TOTAL)	\$ \$	368,837.82 368,837.82									
Group 1-B	(ENGINEERING AND CONSTRUCTION COST/CREDITS APPLY TO 12% COUNTY DESIGN ENGINEERING COST 12% COUNTY CONSTRUCTION ENGINEERING COST	GROUP TOTAL)	\$	29,640.00 29,640.00									
	(CITY OF SAINT PAUL INSPECTION OF COUNTY SIGNAL) 10% CONSTRUCTION ENGINEERING CREDIT				\$	(24,700.00)							
Group 2	12% COUNTY DESIGN ENGINEERING COST 12% COUNTY CONSTRUCTION ENGINEERING COST		\$ \$	93,137.55 93,137.55									
Group 3-A	12% COUNTY DESIGN ENGINEERING FEE 2% COUNTY CONSTRUCTION ENGINEERING FEE				\$ \$	55,451.76 9,241.96							
Group 3-B	12% COUNTY DESIGN ENGINEERING FEE				\$	25,200.00							
Group 4	12% COUNTY DESIGN ENGINEERING COST 12% COUNTY CONSTRUCTION ENGINEERING COST						\$ \$	9,696.48 9,696.48					
5.55p	(CITY OF SAINT PAUL INSPECTION OF COUNTY SIGNAL) 10% CONSTRUCTION ENGINEERING CREDIT								\$	(8,080.40)			
Group 5	2% DESIGN ENGINEERING FEE 2% CONSTRUCTION ENGINEERING FEE								\$ \$	3,547.71 3,547.71			
Group 6	12% DESIGN ENGINEERING FEE 2% CONSTRUCTION ENGINEERING FEE										\$ \$	94,101.57 15,683.60	
	Project Total Construction and Engineering	\$ 3,318,023.00	\$	2,229,624.00	\$	269,670.26	\$	100,196.96	\$	176,400.60	\$	893,964.93	



Minnesota Department of Transportation

Memo Bridge Office 3485 Hadley Avenue North Oakdale, MN 55128-3307

Date:

December 17, 2015

To:

Dan Erickson

Metro Division State Aid Engineer

ATTN.: Colleen Brown

From:

Juanita Voigt

State Aid Hydraulic Specialist

Phone:

(651) 366-4469

Subject:

SP 062-665-052 (White Bear Avenue)

From Old Hudson Road to Beech Street East

City of Saint Paul, Ramsey County

We have completed our review of the storm sewer features of the above referenced Reconstruction Plan and find that Federal Aid and State Aid funds combined can bear the following percentages of the eligible storm sewer costs broken down as follows:

 SP 062-665-052
 Federal Aid Funds
 (.80) (1.00)
 80%

 SP 062-665-052
 State Aid Funds
 (.20) (1.00)
 20%

 Total Funding
 100%

The proposed improvements conform to State Aid standards and the State Aid Division will make further review of the plan. We have the following comment:

1) There are a few inlets that are not meeting State Aid requirements for Maximum Allowable Spread: 5014-A, 5013, 7003. The consultant has been contacted.

Unless you wish to recommend modifying the amount of participation, the State Aid Division will use the above percentage.

We are forwarding a copy of this report to Jim Tolaas, Ramsey County Engineer, and to DJ Sosa, WSB & Associates, for their information.

If you have any questions regarding this approval or proration, please do not hesitate to call.

EC:

Jim Tolaas, Ramsey County Engineer

DJ Sosa, WSB & Associates

CC:

Andrea Hendrickson (file)



Department of Public Works Cost Participation Policy

Exhibit C

Ramsey County Public Works Cost Participation Policy for the Reconstruction and Major Maintenance of County Roads and County State Aid Highways

ITEM:	COUNTY SHARE:	NOTES:
Right of Way	50%	County cost participation on right of way acquisition may be reduced or eliminated where the acquisition is specifically for detached trails, aesthetics, or special design elements requested by municipalities or other project partners. County participation on right of way acquisition applies only to construction projects and shall be 0% for maintenance projects, except where additional right of way is required to accommodate improvements within the curb or shoulder line.
Removals	100%	
Travel Lanes	100%	
ITEM:	COUNTY SHARE:	NOTES:

Parking Lanes	25%	100% in cities under 5,000 population or in White Bear Township. 100% on maintenance pavement preservation projects.
Shoulders	100%	100% of the width required to meet State Aid design standards. 100% in cities under 5,000 population or in White Bear Township. 100% on maintenance pavement preservation projects. 50% outside of the required width.
Concrete Curb & Gutter (new)	25%	
Concrete Curb & Gutter (replacement)	100%	100% if in serviceable condition, as determined by the County Engineer; otherwise negotiable. 100% of curb and gutter as part of median construction required for traffic channelization or to serve as a pedestrian refuge.
Storm Sewer	% Eligible for State Aid	
Culverts	100%	
ITEM:	COUNTY SHARE:	NOTES:

Water Main Modification	100%	100%, if required for construction. 0% on betterments.
Sanitary Sewer Modification	100%	100%, if required for construction 0% on betterments
Private Utility Relocation	0%	
Traffic Signals	100% of County Legs	Traffic Signal construction is addressed in a separate policy (County Board Resolution 81-1001). Electrical power shall be paid by the municipality.
Roundabouts	100% of County Legs	
Retaining Walls	50%	50% when retaining walls are constructed in lieu of right of way acquisition or to mitigate impacts; by negotiation when necessitated by design parameters.
ITEM:	COUNTY SHARE:	NOTES:

Grading Outside of Curb	100%	100% of area required for road construction. 50% of grading required specifically for sidewalks, trails, or other amenities.
Medians	100%	100% of a standard concrete median design, including curb and gutter; municipalities shall pay for the additional cost of any decorative or aesthetic treatments.
Sidewalks (new)	50%	Includes grading, aggregate base, surfacing, and ADA- compliant pedestrian ramps.
Sidewalks (replacement)	100%	100% if in serviceable condition, as determined by the County Engineer; otherwise negotiable.
Bituminous Trail (new)	50%	Includes grading, aggregate base, surfacing, and ADA-compliant pedestrian ramps.
Bituminous Trail (replacement)	100%	100% if in serviceable condition, as determined by the County Engineer; otherwise negotiable.
ITEM:	COUNTY SHARE:	NOTES:

Trail/Sidewalk Grade Separation	0% to 50%, by negotiation	Bridge or underpass construction.
Street Lighting	0%	Street Lighting as part of a traffic signal shall be paid 100% by County. Electrical power shall be paid by the municipality.
Replacement Trees	100%	100%, if 1:1 replacement; 50%, if greater than 1:1
Fence	100%	100% if serviceable; 0% if in County R/W
Turf Restoration	100%	
Amenities and Aesthetics	0%	Special surface treatments, ground covers, or plantings, ornamental railings, etc.
ITEM:	COUNTY SHARE:	NOTES:

Driveway Replacement	100%	
Stormwater Treatment	% eligible for State Aid	Maintenance shall be based on contributing flows.
Preliminary/Design Engineering	% of Participation	
Construction Engineering	% of Participation	

All County participation is subject to the availability of funds.

On Federal Aid Projects, the federal funds shall be applied to all eligible items before cost participation is calculated. Federal participation is typically 50-80% of the total project cost.











