

# Highway MM: Corridor of Opportunity



**HIGHWAY MM**  
CORRIDOR OF OPPORTUNITY

US DEPARTMENT OF TRANSPORTATION  
MULTIMODAL PROJECT DISCRETIONARY GRANT  
OPPORTUNITY (MPDG) RURAL 2024



**Freight Connections**



**Pedestrian Safety**

May 6, 2024  
Supporting  
Documents



**REPUBLIC**  
MISSOURI

**From:** [Peters, Taylor \(FHWA\)](#)  
**To:** [Melissa Scheperle](#)  
**Subject:** RE: Greene Co Route MM 8S0836/B Independent Need Memo  
**Date:** Wednesday, March 24, 2021 7:34:12 AM

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Yes, indeed. Thank you.

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**From:** Melissa Scheperle [mailto:[Melissa.Scheperle@modot.mo.gov](mailto:Melissa.Scheperle@modot.mo.gov)]  
**Sent:** Tuesday, March 23, 2021 2:38 PM  
**To:** Peters, Taylor (FHWA) <[taylor.peters@dot.gov](mailto:taylor.peters@dot.gov)>  
**Subject:** RE: Greene Co Route MM 8S0836/B Independent Need Memo

**CAUTION:** This email originated from outside of the Department of Transportation (DOT). Do not click on links or open attachments unless you recognize the sender and know the content is safe.

Just to clarify – you also agree we can process these as CE2s, worst case. Right? Thanks!

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**From:** Peters, Taylor (FHWA) <[taylor.peters@dot.gov](mailto:taylor.peters@dot.gov)>  
**Sent:** Wednesday, March 17, 2021 3:24 PM  
**To:** Melissa Scheperle <[Melissa.Scheperle@modot.mo.gov](mailto:Melissa.Scheperle@modot.mo.gov)>; michael.latuszek.dot.gov <[michael.latuszek@dot.gov](mailto:michael.latuszek@dot.gov)>  
**Cc:** Stacy Reese <[Stacy.Reese@modot.mo.gov](mailto:Stacy.Reese@modot.mo.gov)>; Warner D. Sherman <[Warner.Sherman@modot.mo.gov](mailto:Warner.Sherman@modot.mo.gov)>; Kyle E. Grayson <[Kyle.Grayson@modot.mo.gov](mailto:Kyle.Grayson@modot.mo.gov)>; Charles Pursley (FHWA Emergency Contact #2) <[charles.pursley@dot.gov](mailto:charles.pursley@dot.gov)>  
**Subject:** RE: Greene Co Route MM 8S0836/B Independent Need Memo

Hello Melissa, FHWA concurs that the projects have independent utility and logical termini and therefore can be processed under two separate NEPA documents. Please let us know if anything changes. Thank you.

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**From:** Melissa Scheperle [mailto:[Melissa.Scheperle@modot.mo.gov](mailto:Melissa.Scheperle@modot.mo.gov)]  
**Sent:** Friday, March 12, 2021 8:42 AM  
**To:** Peters, Taylor (FHWA) <[taylor.peters@dot.gov](mailto:taylor.peters@dot.gov)>; Latuszek, Michael(FHWA) <[michael.latuszek@dot.gov](mailto:michael.latuszek@dot.gov)>  
**Cc:** Stacy Reese <[Stacy.Reese@modot.mo.gov](mailto:Stacy.Reese@modot.mo.gov)>; Warner D. Sherman <[Warner.Sherman@modot.mo.gov](mailto:Warner.Sherman@modot.mo.gov)>; Kyle E. Grayson <[Kyle.Grayson@modot.mo.gov](mailto:Kyle.Grayson@modot.mo.gov)>  
**Subject:** Greene Co Route MM 8S0836/B Independent Need Memo

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Taylor and Mike,

Please find attached the independent need memo for the subject project. For further review and information, there is an RES for each job number and I previously provided the .kmz files.

We recommend the two sections be processed through NEPA separately as CE2s each. Let me know if you have any questions!

Thanks,

*Melissa A. Scheperle*

Environmental Compliance Manager –NEPA, Hazardous Waste

Environmental and Historic Preservation Section

Design Division, MoDOT

Ph: 573-526-6684

Cell: 573-508-2848

[Melissa.scheperle@modot.mo.gov](mailto:Melissa.scheperle@modot.mo.gov)

**PROJECT SUMMARY REPORT FOR 8S0836B AS OF Nov 9, 2023**

<b>Work District</b>	SOUTHWEST	<b>Status</b>	ONEDOT APPROVED	<b>Version</b>	APPROVED STIP	<b>Project Manager</b>	WARNER-SHERMAN	<b>Payment Project</b>	N
<b>Award Month/Award Year</b>	8/2024	<b>Letting Date</b>	<del>4/19/2024</del>	<b>Estimated Submittal Date</b>	Mar 15, 2023	<b>Let by</b>	CENTRAL OFFICE	<b>Letting Exclusion</b>	N

**Primary Route** RT MMS  
**Description / Location** Add Lanes on Brookline Avenue from I-44 to Rte. 360 (James River Freeway) in Republic.  
**Reason / Remarks** Design right of way and inspection by Republic. \$6,000,000 STIP Urban and \$4,673,000 Republic funds.  
**District Comments** combo letting with 8S3230.

Project Amounts	Total Estimated Cost for the Project						Total Project											
	Typical Bridge	Major Bridge	Pavement	Safety	Mobility	Capital Improvement												
<b>Total Bridge</b>				<b>873</b>	<b>220</b>	<b>7,968</b>	<b>181</b>	<b>505</b>	<b>1,050</b>	<b>3,453</b>	<b>568</b>	<b>1,337</b>	<b>840</b>	<b>1,631</b>	<b>229</b>	<b>12%</b>	<b>18%</b>	
					<b>Total Contract Estimate</b>	<b>9,061</b>	<b>10,498</b>	<b>Total Construction</b>	<b>9,747</b>	<b>11,548</b>	<b>Total Right of Way and Construction</b>	<b>13,200</b>	<b>12,116</b>	<b>2,968</b>	<b>1,069</b>	<b>Total Project</b>	<b>16,168</b>	<b>13,185</b>

Yearly Program Amounts	Amount Programmed by SFY						Program Total	Project Total	
	Prior to 2024	2024	2025	2026	2027	2028			2029
Preliminary Engineering	408	332	100					432	840
Construction Engineering		0	229					229	229
Right of Way Acquisition	0	568						568	568
Construction		0	11,548					11,548	11,548
<b>Total</b>	<b>408</b>	<b>900</b>	<b>11,877</b>					<b>12,777</b>	<b>13,185</b>

**Funding Category** Total 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0

**How the District is Funding the Project**

Funding From Other Sources	City - Construction	Sibg Large Urban - Construction	Total
	0	0	0
	4,673	0	4,673
	2,296	0	2,296
<b>Total</b>	<b>6,969</b>	<b>0</b>	<b>6,969</b>

Funds Transfer	2022, Statewide, Cost Share	2023, Statewide, Cost Share	2024, Statewide, Cost Share	Total
	0	568	0	568
	1,146	0	0	1,146
	1,714	0	0	1,714
	1,719	0	0	1,719
<b>Total</b>	<b>4,579</b>	<b>568</b>	<b>0</b>	<b>5,147</b>

Total Right of Way and Construction	Engineering
	0
	568
<b>Total</b>	<b>568</b>

Funding From Other Sources - Engineering	Engineering
	-164
	51
<b>Total</b>	<b>329</b>

Funds Transfer - Engineering	2022, Statewide, Cost Share PE/CE	2023, Statewide, Cost Share PE/CE	2024, Statewide, Cost Share PE/CE	Total
	286	0	0	286
	82	204	0	286
	0	3	278	281
<b>Total</b>	<b>368</b>	<b>207</b>	<b>278</b>	<b>853</b>

Total Engineering	Total Project
204	204
607	826
<b>1,069</b>	<b>12,155</b>

Bridge Count	Railroads Impacted	Improvement	Action	Detailed Work	Federal Funds Category	Initiatives
0	0	CAPITAL IMPROVEMENT	ADD	DRIVING/THRU LANES	AC-STBG	

PROJECT SUMMARY REPORT FOR 8S0836B AS OF Nov 9, 2023

MOBILITY	ADD	SIGNALS	AC-STBG
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Route	Begin Log	End Log	Begin County	TMA	Travelway ID	System	Functional Class	NHS	AAADT	Conflict of Interest
RT MMS	0.089	1.600	GREENE	Y	2.603	SUPPLEMENTARY	MINOR ARTERIAL	N	6,478	N
RT MMN	2.350	3.861	GREENE	Y	2.604	SUPPLEMENTARY	MINOR ARTERIAL	N	6,478	N

No RR  
 Safety (Lighting/raised medians)=\$873K  
 No ADA/Bike/Ped  
 RW Inc.=\$250K & included in PE  
 Utilities=\$505K

Lane Miles 3.221 Centerline Miles 1.511

TIP Number RPI703-22A

Planning Organization	Federal District	Senate District	House District
OTO MPO	7	20	130 131

## Assumptions

### J8S0836B, Greene County, Route MM

(All estimate numbers in 1000's: \$100,000 = 100)

**Project Type** (consider the purpose of the project when selecting a category. Generally, you will only use 1 or 2 categories with each project.)

Typical Bridge	Major Bridge	Pavement	Safety*	Mobility	Capital Improvement	Total Construct Est.
0	0	0	873	220	7968	9061

**Reasons for change** 13.7% decrease from previous program (\$10,498K to \$9,061K) due to development of preliminary plans and refinement of estimate. Largest changes are in signal quantities and removal of 15% contingency.

**Pavement/Safety/Mobility/Capital Improvement:** This project will widen Rte. MM to 5 lanes between James River Freeway and I-44. Project to include new curb & gutter, drainage structures, & signals. This package includes the preliminary cost estimate provided by the consultant submitted with preliminary plans in May 2023. Mobility costs account for signal improvements. Additional quantities were included to account for raised concrete medians and lighting at left turn lane openings for Carnahan, FR 148, Kings, FR 144, & FR 140.

**Typical Bridge/Major Bridge: Bridge Split:** \$ -

No bridge costs associated with this project.

#### Other Non Contractuals

Utilities	RR Flagging	A+B/ LS Incentives	Smoothness Incent	Total
505	0	0	0	505

Utility Costs reflected in estimate obtained from consultant dated 5/19/2023. If Utilities are in contract, the cost needs to be added in under appropriate category above.

#### Right of Way Costs

R/W Acquisition
3453

Right of Way Costs reflected from Right of Way estimate dated 5/19/2023. Acquisition ONLY. ROW Incidental included in PE now.

#### Preliminary Engineering Costs

Prelim. Eng and ROW Inc.	Design PE	R/W Incidentals
1337	1087	250

Design PE Based upon 12% of construction costs as included in preliminary estimate from consultant. See District PE CE Percentages on Project Development SP or visit Planning SP site. R/W Incidentals cost reflected from right of way estimate dated 5/19/2023.

#### Construction Engineering Costs

Constr. Engr.
1631

Based upon 18% of construction costs as included in preliminary estimate from consultant. See District PE CE Percentages on Project Development SP.

#### \*Safety Features

Total Safety Feature Cost
873

Safety features include costs associated with lighting and raised concrete medians.

#### Bike/Pedestrian Improvements

Total Bike/Ped Imp
0

No bike or pedestrian improvements associated with this project.

**RailRoad Impacts**

No railroad impacts associated with this project.

RR Crossing DOT #

RR Crossing DOT #

RR Crossing DOT #

RR Crossing DOT #

**\*Safety Features (All estimate numbers in 1000's: \$100,000 = 100)**

Separate each individual safety feature and information specific to that feature itself(i.e. new rumble strips, guardrail, 2' shoulders w/rumbles, roundabout, interchange, etc). See improvement category guidance on top of page 1.

Specific Safety Feature	Safety Feature Cost	Improvement Life	Fatal Crash Reduction	Serious Crash Reduction
Lighting	392	10	0	0
Specific Safety Feature	Safety Feature Cost	Improvement Life	Fatal Crash Reduction	Serious Crash Reduction
Raised Medians	481	20	0	1.194
Specific Safety Feature	Safety Feature Cost	Improvement Life	Fatal Crash Reduction	Serious Crash Reduction
Specific Safety Feature	Safety Feature Cost	Improvement Life	Fatal Crash Reduction	Serious Crash Reduction
Specific Safety Feature	Safety Feature Cost	Improvement Life	Fatal Crash Reduction	Serious Crash Reduction

Add additional safety features as needed. Make sure the added boxes are summed on the first page.

Orren Ricketts  


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**Estimator**

1/4/2024  


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**Date**

Sharon Needham  


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**Transportation Project Designer**

1/4/2024  


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**Date**

Bud Sherman  


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**Project Manager**

1/4/2024  


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**Date**

# Bid Report

<b>Project:</b> WIDEN ROUTE MM TO 5 LANE SECTION W/C&G AND STORM. Estimate provided by Olsson dated 5-19-2023.	<b>Job Number:</b> J8S0836B	<b>Bid Date:</b> 11/08/2023	<b>State:</b> MO
<b>Location:</b> ROUTE MM FROM ROUTE I-44 SOUTH TO JAMES RIVER FREEWAY			

### Project Settings

<b>Primary County:</b> GREENE	<b>Urban / Rural:</b> RURAL ROUTE
<b>Addl Counties:</b>	<b>Project Type:</b> GRADING, DRAINAGE & PAVING
<b>District:</b> Southwest	<b>Work Type:</b> REHABILITATOIN
<b>Latitude:</b> 37° 06' 42"	<b>Traffic:</b> Heavy Traffic (over 1700 DAT)
<b>Longitude:</b> 93° 15' 06"	<b>Estimator:</b> orren.ricketts@modot.mo.gov
<b>Log Mile:</b> <b>Beg:</b>	<b>Constr Eng:</b> 18.00%
<b>End:</b>	<b>Priced Date:</b> 11/9/2023
<b>Station:</b> <b>Beg:</b> 48+58.54	<b>Create Date:</b> 11/8/2023
<b>End:</b> 28+28.46	<b>Fed Project No:</b>
<b>Project Length:</b> 1.5810 miles	<b>Mobe Percent:</b> 6.00%
<b>Route:</b> MM	<b>Survey Percent:</b> 2.00%

### Project Sections

1 Roadway	\$3,852,605.19	42.52%
3 Alt B CONCRETE PAVEMENT - J8S0836B	\$3,024,868.00	33.38%
20 Lighting	\$391,659.00	4.32%
30 Signals	\$219,708.00	2.42%
40 Signing	\$14,430.00	0.16%
50 DRAINAGE - J8S0836B	\$1,148,119.00	12.67%
51 TCP - J8S0836B	\$409,463.00	4.52%
<b>Total</b>	<b>\$9,060,852.19</b>	<b>100.0%</b>

### STIP Information

Construction Cost	\$9,060,852.19	56.67%
PE (12.00% of construction cost)	\$1,087,302.26	6.80%
CE (18.00% of construction cost)	\$1,630,953.39	10.20%
R/W	\$3,453,421.54	21.60%
431,814 SF NEW R/W @ \$5/SF; 62,438 SF NEW PERM. ESM'T @ \$3.50/SF; 75,820 SF TEMP. CONST. ESM'T @\$1/SF; 4 HOUSE TAKINGS @ \$250,000 EACH		
R/W Incidentals	\$250,000.00	1.56%
\$10,000 PER PARCEL @ 25 PARCELS		
Utilities	\$505,000.00	3.16%
SEE UTILITY ESTIMATE		
Incentive	\$0.00	0.00%
<b>Total</b>	<b>\$15,987,529.38</b>	<b>100.0%</b>

### Major Categories

BRIDGE	\$0.00	0.00%
GRADE/DRAIN	\$1,751,717.00	19.33%
MISC.	\$3,513,952.19	38.78%
PAVEMENT/BASE	\$3,795,183.00	41.89%
<b>Total</b>	<b>\$9,060,852.19</b>	<b>100.0%</b>



# Bid Report

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<b>Location:</b> ROUTE MM FROM ROUTE I-44 SOUTH TO JAMES RIVER FREEWAY			

Section: Roadway

Sort	Pay Item	Description	Count	Quantity	Unit	Unit Price	Extension
0	2013000	CLEARING AND GRUBBING	--	2.000	ACRE	3,500.00	7,000.00
0	2022010	REMOVAL OF IMPROVEMENTS	--	1.000	L.S.	150,000.00	150,000.00
0	2027000	DISPOSAL AND PLUGGING OF WELLS	--	1.000	EACH	5,000.00	5,000.00
0	2035000	UNCLASSIFIED EXCAVATION	--	19,588.000	C.Y.	11.00	215,468.00
0	2035500	EMBANKMENT IN PLACE	--	12,193.000	C.Y.	30.00	365,790.00
0	2039907	MISC. {UNDERGRADING}	--	1,022.000	C.Y.	20.00	20,440.00
0	3040504	TYPE 5 AGGREGATE FOR BASE (4 IN. THICK)	--	3,701.000	S.Y.	14.00	51,814.00
0	3040506	TYPE 5 AGGREGATE FOR BASE (6 IN. THICK)	--	50,986.000	S.Y.	10.00	509,860.00
0	3049910	MISC. {PERMANENT AGGREGATE EDGE TREATMENT}	--	205.000	TON	75.00	15,375.00
0	4030103	ASPHALTIC CONCRETE MIXTURE PG 70-22 (SP125C MIX)	--	1,996.500	TON	94.00	187,671.00
0	4071005	TACK COAT	--	1,865.000	GAL	3.00	5,595.00
0	6042010	ADJUSTING MANHOLE	--	1.000	EACH	1,900.00	1,900.00
0	6083008 {1}	8 IN. CONCRETE MEDIAN STRIP	--	6,014.800	S.Y.	80.00	481,184.00
0	6085008	"PAVED APPROACH, 8 IN."	--	3,446.000	S.Y.	85.00	292,910.00
0	6091041	CONCRETE GUTTER TYPE A	--	97.000	L.F.	100.00	9,700.00
0	6091052	CURB AND GUTTER TYPE B	--	15,418.000	L.F.	40.00	616,720.00
0	6181000	MOBILIZATION	--	1.000	L.S.	503,380.68	503,380.68
0	6181020	ADDITIONAL MOBILIZATION FOR SEEDING	--	4.000	EACH	600.00	2,400.00
0	6200015	"PREFORMED THERMOPLASTIC PAVEMENT MARKING, 24 IN. WHITE"	--	24.000	L.F.	24.00	576.00
0	6200018	"PREFORMED THERMOPLASTIC PAVEMENT MARKING, 24 IN. YELLOW"	--	1,691.000	L.F.	20.00	33,820.00
0	6200021	"PREFORMED THERMOPLASTIC PAVEMENT MARKING, LEFT/RIGHT ARROW"	--	47.000	EACH	250.00	11,750.00
0	6200042	"PREFORMED THERMOPLASTIC PAVEMENT MARKING, 12 IN WHITE, YIELD LINE TRIANGLES"	--	48.000	EACH	47.00	2,256.00
0	6205902A	"6 IN. WHITE HIGH BUILD WATERBORNE PAVEMENT MARKING PAINT, TYPE L BEADS"	--	10,742.000	L.F.	0.30	3,222.60
0	6205903A	"6 IN. YELLOW HIGH BUILD WATERBORNE PAVEMENT MARKING PAINT, TYPE L BEADS"	--	21,062.000	L.F.	0.30	6,318.60
0	6207001	PAVEMENT MARKING REMOVAL	--	1.000	L.F.	1.25	1.25
0	6207002	PAVEMENT MARKING REMOVAL (SYMBOLS)	--	1.000	EACH	150.00	150.00
0	6224010	MODIFIED COLDMILLING (DEPTH TRANSITIONS)	--	2,098.000	S.Y.	7.50	15,735.00
0	6274000	CONTRACTOR FURNISHED SURVEYING AND STAKING	--	1.000	L.S.	167,793.56	167,793.56
0	8025006	MULCHING	--	8.300	ACRE	1,220.00	10,126.00
0	8051000A	SEEDING - COOL SEASON GRASSES	--	8.300	ACRE	3,000.00	24,900.00
0	8061003	SEDIMENT TRAP EXCAVATION	--	15.000	C.Y.	25.00	375.00

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<b>Location:</b> ROUTE MM FROM ROUTE I-44 SOUTH TO JAMES RIVER FREEWAY			

Sort	Pay Item	Description	Count	Quantity	Unit	Unit Price	Extension
0	8061004	SEDIMENT TRAP ROCK	--	15.000	C.Y.	103.00	1,545.00
0	8061006	ALTERNATE DITCH CHECK	--	1,226.000	L.F.	6.00	7,356.00
0	8061007A	CURB INLET CHECK	--	53.000	EACH	145.00	7,685.00
0	8061016	SEDIMENT REMOVAL	--	179.000	C.Y.	20.00	3,580.00
0	8061017	TEMPORARY SEEDING	--	2.100	ACRE	1,400.00	2,940.00
0	8061019	SILT FENCE	--	3,090.000	L.F.	2.70	8,343.00
0	8064130	TYPE 3 TURF REINFORCEMENT MAT	--	3,864.000	S.Y.	4.80	18,547.20
0	8064140	TYPE 3B EROSION CONTROL BLANKET	--	36,251.000	S.Y.	2.30	83,377.30
<b>Category: Roadway</b>							<b>\$3,852,605.19</b>

**Section: Alt A ASPHALT PAVEMENT - J8S0836B**

Sort	Pay Item	Description	Count	Quantity	Unit	Unit Price	Extension
0	4039905	MISC. {ALT A ASPHALT PAVEMENT (11.5 IN. SP125C)}	--	43,212.400	S.Y.	0.00	0.00
<b>Category: Alt A ASPHALT PAVEMENT - J8S0836B</b>							<b>\$0.00</b>

**Section: Alt B CONCRETE PAVEMENT - J8S0836B**

Sort	Pay Item	Description	Count	Quantity	Unit	Unit Price	Extension
0	4039905 {1}	MISC. {ALT B CONCRETE PAVEMENT (9.5 IN. NON-REINFORCED, 15 FT. JOINTS)}	--	43,212.400	S.Y.	70.00	3,024,868.00
<b>Category: Alt B CONCRETE PAVEMENT - J8S0836B</b>							<b>\$3,024,868.00</b>

**Section: Lighting**

Sort	Pay Item	Description	Count	Quantity	Unit	Unit Price	Extension
0	9011010	RELOCATED POLE	--	2.000	EACH	2,900.00	5,800.00
0	9011062 {1}	"LIGHTING POLE, 45 FT. OR 13.5 M, TYPE AT DESIGN 2"	--	12.000	EACH	5,000.00	60,000.00
0	9011115 {1}	"BRACKET ARM, 15 FT. OR 4.6 M"	--	12.000	EACH	1,800.00	21,600.00
0	9011312 {1}	"LUMINAIRE, LED-B"	--	9.000	EACH	800.00	7,200.00
0	9012230 {1}	BASE MOUNTED CONTROL STATION 240 VOLT - 4 CIRCUIT	--	3.000	EACH	9,000.00	27,000.00
0	9014004 {1}	"CONDUIT, 4 IN. RIGID, PUSHED"	--	577.000	L.F.	55.00	31,735.00
0	9015020	TRENCHING TYPE II	--	4,682.000	L.F.	7.00	32,774.00
0	9016120	"PULL BOX, CONCRETE, STANDARD"	--	25.000	EACH	3,500.00	87,500.00
0	9017110	"CABLE, 10 AWG 1 CONDUCTOR, POLE AND BRACKET"	--	1,710.000	L.F.	2.00	3,420.00
0	9017402	"CABLE-CONDUIT, 1 IN., 2 CONDUCTORS AND 1 BARE NEUTRAL, 4 AWG"	--	5,270.000	L.F.	9.00	47,430.00
0	9018230	POLE FOUNDATION (30 FT. OR 9.0 M MOUNTING HEIGHT)	--	2.000	EACH	1,800.00	3,600.00
0	9018245 {1}	POLE FOUNDATION (45 FT. OR 13.5 M MOUNTING HEIGHT)	--	12.000	EACH	2,800.00	33,600.00

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<b>Location:</b> ROUTE MM FROM ROUTE I-44 SOUTH TO JAMES RIVER FREEWAY				

0	9018613 {1}	"POWER SUPPLY ASSEMBLY, TYPE 2, 240/120 VOLT SERVICE, LIGHTING AND SIGNALS"	--	2.000 EACH	15,000.00	30,000.00
<b>Category: Lighting</b>						<b>\$391,659.00</b>

**Section: Signals**

Sort	Pay Item	Description	Count	Quantity	Unit	Unit Price	Extension
0	9020513	"SIGNAL HEAD, TYPE 3B"	--	6.000	EACH	1,150.00	6,900.00
0	9020514	"SIGNAL HEAD, TYPE 4B"	--	1.000	EACH	1,500.00	1,500.00
0	9020833	SH-FLAT SHEET - SIGNAL SIGN	--	41.000	S.F.	25.00	1,025.00
0	9020834	"SIGNAL SIGN, MOUNTING HARDWARE"	--	4.000	EACH	350.00	1,400.00
0	9023245	"POST, TYPE C, 45 FT. ARM OR 13.7 M ARM"	--	3.000	EACH	17,000.00	51,000.00
0	9024965	"DETECTOR, MICROWAVE"	--	3.000	EACH	7,500.00	22,500.00
0	9025200	"CONDUIT, 2 IN., TRENCH WITH TRACER WIRE"	--	50.000	L.F.	20.00	1,000.00
0	9025300	"CONDUIT, 3 IN., TRENCH WITH TRACER WIRE"	--	129.000	L.F.	32.00	4,128.00
0	9027300	"CONDUIT, 3 IN., PUSHED WITH TRACER WIRE"	--	331.000	L.F.	35.00	11,585.00
0	9028311	"CABLE, 16 AWG 7 CONDUCTOR"	--	1,120.000	L.F.	2.50	2,800.00
0	9028400	"WIRE, 6 AWG, SOLID NEUTRAL"	--	460.000	L.F.	2.00	920.00
0	9028620	"POWER SUPPLY ASSEMBLY, TYPE 2"	--	1.000	EACH	9,700.00	9,700.00
0	9028811	"PULL BOX, PREFORMED CLASS 2"	--	1.000	EACH	2,500.00	2,500.00
0	9028812	"PULL BOX, PREFORMED CLASS 3"	--	1.000	EACH	3,000.00	3,000.00
0	9028820	"PULL BOX, CONCRETE, STANDARD"	--	2.000	EACH	3,550.00	7,100.00
0	9028821	"PULL BOX, CONCRETE, DOUBLE, TYPE A"	--	1.000	EACH	5,500.00	5,500.00
0	9029100	"BASE, CONCRETE"	--	9.800	C.Y.	1,750.00	17,150.00
0	9029902	MISC. {UNINTERRUPTIBLE POWER SUPPLY}	--	1.000	EACH	15,000.00	15,000.00
0	9029902 {1}	MISC. {WIRELESS COMMUNICATION SYSTEM, INSTALLED}	--	1.000	EACH	20,000.00	20,000.00
0	9029902 {2}	MISC. {CONTROLLER ASSEMBLY HOUSING, TYPE 2070 CONTROLLER}	--	1.000	EACH	35,000.00	35,000.00
<b>Category: Signals</b>							<b>\$219,708.00</b>

**Section: Signing**

Sort	Pay Item	Description	Count	Quantity	Unit	Unit Price	Extension
0	9031210	STRUCTURAL STEEL POSTS	--	80.000	LBS	6.25	500.00
0	9031270A	2 IN. PSST POST - 12 GA.	--	180.000	L.F.	19.00	3,420.00
0	9031271A	DRIVEN POST ANCHOR FOR 2 IN. PSST - 12 GA.	--	15.000	EACH	147.00	2,205.00
0	9031280	2.5 IN. PSST POST - 12 GA.	--	180.000	L.F.	17.25	3,105.00

# Bid Report

<b>Project:</b> WIDEN ROUTE MM TO 5 LANE SECTION W/C&G AND STORM. Estimate provided by Olsson dated 5-19-2023.	<b>Job Number:</b> J8S0836B	<b>Bid Date:</b> 11/08/2023	<b>State:</b> MO
<b>Location:</b> ROUTE MM FROM ROUTE I-44 SOUTH TO JAMES RIVER FREEWAY			

0	9031281A	DRIVEN POST ANCHOR FOR 2.5 IN. PSST - 7 GA.	--	15.000	EACH	200.00	3,000.00
0	9035004A	SH-FLAT SHEET	--	110.000	S.F.	20.00	2,200.00
<b>Category: Signing</b>							<b>\$14,430.00</b>

**Section: DRAINAGE - J8S0836B**

Sort	Pay Item	Description	Count	Quantity	Unit	Unit Price	Extension
0	2063000	CLASS 3 EXCAVATION	--	6,961.000	C.Y.	23.00	160,103.00
0	2063300	CLASS 4 EXCAVATION	--	187.000	C.Y.	28.00	5,236.00
0	6044011	"PIPE COLLAR, TYPE A"	--	1.000	EACH	2,000.00	2,000.00
0	6051018A	PIPE AGGREGATE PAVEMENT CROSS DRAIN	--	278.000	L.F.	21.00	5,838.00
0	6054010	GEOCOMPOSITE PAVEMENT EDGE DRAIN	--	6,600.000	L.F.	10.00	66,000.00
0	6054020	OUTLET PIPES AND SPLASH PADS	--	26.000	EACH	1,500.00	39,000.00
0	6097000	ROCK LINING	--	150.000	C.Y.	95.00	14,250.00
0	6141025	GRATE AND BEARING PLATE (3 FT. 1 IN. X 2 FT. 1 IN. OR 940 MM X 635 MM)	--	4.000	EACH	500.00	2,000.00
0	6143013	"MANHOLE FRAME AND COVER, TYPE 3"	--	53.000	EACH	590.00	31,270.00
0	7250418	18 IN. PIPE GROUP C	--	345.000	L.F.	77.00	26,565.00
0	7261015	15 IN. PIPE GROUP A	--	1,447.000	L.F.	80.00	115,760.00
0	7261018	18 IN. PIPE GROUP A	--	2,512.000	L.F.	85.00	213,520.00
0	7261024	24 IN. PIPE GROUP A	--	1,095.000	L.F.	90.00	98,550.00
0	7261030	30 IN. PIPE GROUP A	--	66.000	L.F.	97.00	6,402.00
0	7261036	36 IN. PIPE GROUP A	--	85.000	L.F.	125.00	10,625.00
0	7311033	PRECAST CONCRETE DROP INLET 3 FT X 3 FT	--	8.000	L.F.	1,000.00	8,000.00
0	7311053	PRECAST CONCRETE DROP INLET 5 FT X 3 FT	--	220.000	L.F.	840.00	184,800.00
0	7319902	MISC. {10 FT. X 3 FT. DROP INLET}	--	2.000	EACH	8,000.00	16,000.00
0	7319902 {1}	MISC. {PRECAST CONCRETE 3'X3' JUNCTION BOX}	--	1.000	EACH	3,000.00	3,000.00
0	7319903	MISC. {REINFORCED CONCRETE BOX CULVERT}	--	104.000	L.F.	875.00	91,000.00
0	7320615A	15 IN. OR ALLOWED SUBSTITUTE GROUP A FLARED END SECTION	--	1.000	EACH	800.00	800.00
0	7320618A	18 IN. OR ALLOWED SUBSTITUTE GROUP A FLARED END SECTION	--	8.000	EACH	1,000.00	8,000.00
0	7320624A	24 IN. OR ALLOWED SUBSTITUTE GROUP A FLARED END SECTION	--	1.000	EACH	1,300.00	1,300.00
0	7320630A	30 IN. OR ALLOWED SUBSTITUTE GROUP A FLARED END SECTION	--	5.000	EACH	1,500.00	7,500.00
0	7320636A	36 IN. OR ALLOWED SUBSTITUTE GROUP A FLARED END SECTION	--	3.000	EACH	1,800.00	5,400.00
0	7320818A	18 IN. OR ALLOWED SUBSTITUTE GROUP C FLARED END SECTION	--	28.000	EACH	900.00	25,200.00
<b>Category: DRAINAGE - J8S0836B</b>							<b>\$1,148,119.00</b>

# Bid Report

<b>Project:</b> WIDEN ROUTE MM TO 5 LANE SECTION W/C&G AND STORM. Estimate provided by Olsson dated 5-19-2023.	<b>Job Number:</b> J8S0836B	<b>Bid Date:</b> 11/08/2023	<b>State:</b> MO
<b>Location:</b> ROUTE MM FROM ROUTE I-44 SOUTH TO JAMES RIVER FREEWAY			

Section: TCP - J8S0836B

Sort	Pay Item	Description	Count	Quantity	Unit	Unit Price	Extension
0	1041000	TEMPORARY SURFACING	--	1,500.000	C.Y.	150.00	225,000.00
0	6122009	IMPACT ATTENUATOR 45 MPH (SAND BARREL ARRAY)	--	2.000	EACH	3,000.00	6,000.00
0	6122020	REPLACEMENT SAND BARREL	--	2.000	EACH	300.00	600.00
0	6123000A	TRUCK OR TRAILER MOUNTED ATTENUATOR (TMA)	--	2.000	EACH	1,200.00	2,400.00
0	6161005	CONSTRUCTION SIGNS	--	1,380.000	S.F.	7.50	10,350.00
0	6161008	ADVANCED WARNING RAIL SYSTEM	--	2.000	EACH	86.00	172.00
0	6161025	CHANNELIZER (TRIM LINE)	--	285.000	EACH	18.00	5,130.00
0	6161030	TYPE III MOVEABLE BARRICADE	--	20.000	EACH	200.00	4,000.00
0	6161040	FLASHING ARROW PANEL	--	1.000	EACH	1,600.00	1,600.00
0	6161098A	"CHANGEABLE MESSAGE SIGN WITHOUT COMMUNICATION INTERFACE, CONTRACTOR FURNISHED, CONTRACTOR RETAINED"	--	4.000	EACH	5,000.00	20,000.00
0	6173700B	"TEMPORARY TRAFFIC BARRIER ANCHORED, CONTRACTOR FURNISHED / RETAINED"	--	1,500.000	L.F.	55.00	82,500.00
0	6191000	PAVEMENT EDGE TREATMENT	--	8,345.000	L.F.	3.80	31,711.00
0	6209901	MISC. {TEMP PAVEMENT MARKING}	--	1.000	L.S.	20,000.00	20,000.00

**Category: TCP - J8S0836B** **\$409,463.00**

<b>Total:</b>	<b>\$9,060,852.19</b>
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REPORT PARAMETERS	
Project	J8S0836B - WIDEN ROUTE MM TO 5 LANE SECTION W/C&G AND STORM. Estimate provided by Olsson dated 5-19-2023.
Comparison	Bid Price

Route MM - Utility Replacements in Easement					
Utility	From Station	To Station	Length (Ft)	Unit Cost	Total Cost
<b>Overhead Power</b>					
Replace Powe Pole & Guy	53+55 Lt.		1	\$13,000.00	\$13,000.00
Power Line	60+25 Rt.	60+50 Rt.	50	\$80.00	\$4,000.00
Power Line	97+00 Rt.	107+60 Rt.	1060	\$80.00	\$84,800.00
<b>Overhead Power Transmission Line</b>					
Power Pole	60+75 Rt.		1	\$100,000.00	\$100,000.00
<b>AT&amp;T</b>					
Utility Cabinets	80+40 Rt.		1	\$200,000.00	\$200,000.00
<b>Water Line</b>					
Fire Hydrant	92+75 Rt		1	\$5,000.00	\$5,000.00
Waterline	98+50 Rt	107+25 Rt.	875	\$100.00	\$87,500.00
Fire Hydrant	99+95 Rt.		1	\$5,000.00	\$5,000.00
<b>Sanitary Sewer</b>					
MH Adjustment	92+80 Rt		1	\$5,000.00	\$5,000.00

\$504,300.00

USE  
\$505,000.00

# Bid Report

<b>Project:</b> Estimate for sidewalk, midblocks, & ped signals	<b>Job Number:</b> J8S0836B - Ped Fac Only	<b>Bid Date:</b> 01/04/2024	<b>State:</b> MO
<b>Location:</b> Republic			

### Project Settings

<b>Primary County:</b> GREENE	<b>Urban / Rural:</b> RURAL ROUTE
<b>Addl Counties:</b>	<b>Project Type:</b> MISCELANEOUS - NOT INCLUDED IN OTHER
<b>District:</b> Southwest	<b>Work Type:</b>
<b>Latitude:</b> 37° 06' 42"	<b>Traffic:</b> Heavy Traffic (over 1700 DAT)
<b>Longitude:</b> 93° 15' 06"	<b>Estimator:</b> orren.ricketts@modot.mo.gov
<b>Log Mile:</b> <b>Beg:</b> 48+58.54	<b>Constr Eng:</b> 26.00%
<b>End:</b> 28+28.46	<b>Priced Date:</b> 1/4/2024
<b>Station:</b> <b>Beg:</b>	<b>Create Date:</b> 1/4/2024
<b>End:</b>	<b>Fed Project No:</b>
<b>Project Length:</b> 1.5100 miles	<b>Mobe Percent:</b> 6.00%
<b>Route:</b> MM	<b>Survey Percent:</b> 1.50%

### Project Sections

1 Roadway	\$976,573.92	84.29%
30 Signals	\$171,310.00	14.79%
40 Signing	\$10,760.00	0.93%
<b>Total</b>	<b>\$1,158,643.92</b>	<b>100.0%</b>

### Major Categories

BRIDGE	\$0.00	0.00%
GRADE/DRAIN	\$147,902.50	12.77%
MISC.	\$893,725.42	77.14%
PAVEMENT/BASE	\$117,016.00	10.10%
<b>Total</b>	<b>\$1,158,643.92</b>	<b>100.0%</b>

### STIP Information

Construction Cost	\$1,158,643.92	62.89%
CE (26.00% of construction cost)	\$301,247.42	16.35%
R/W	\$0.00	0.00%
R/W Incidentals	\$0.00	0.00%
Utilities	\$0.00	0.00%
Incentive	\$0.00	0.00%
PE (33.00% of construction cost)	\$382,352.49	20.75%
<b>Total</b>	<b>\$1,842,243.83</b>	<b>100.0%</b>

# Bid Report

<b>Project:</b> Estimate for sidewalk, midblocks, & ped signals	<b>Job Number:</b> J8S0836B - Ped Fac Only	<b>Bid Date:</b> 01/04/2024	<b>State:</b> MO
<b>Location:</b> Republic			

**Section: Roadway**

Sort	Pay Item	Description	Count	Quantity	Unit	Unit Price	Extension
0	2022010	REMOVAL OF IMPROVEMENTS	--	1.000	L.S.	25,000.00	25,000.00
0	2071000	LINEAR GRADING CLASS 1	--	5.000	STA.	4,000.00	20,000.00
0	2079903	MISC. {LINEAR GRADING FOR ADA FACILITIES}	--	9,302.000	L.F.	13.75	127,902.50
0	3040143	TYPE 1 AGGREGATE FOR BASE (4 IN. THICK)	--	5,622.000	S.Y.	18.00	101,196.00
0	3040504	TYPE 5 AGGREGATE FOR BASE (4 IN. THICK)	--	565.000	S.Y.	28.00	15,820.00
0	6081010	CONCRETE CURB RAMP	--	453.100	S.Y.	200.00	90,620.00
0	6081012	TRUNCATED DOMES	--	490.000	S.F.	37.50	18,375.00
0	6085008	"PAVED APPROACH, 8 IN."	--	564.800	S.Y.	110.00	62,128.00
0	6086004	"CONCRETE SIDEWALK, 4 IN."	--	4,645.900	S.Y.	72.00	334,504.80
0	6086008	"CONCRETE SIDEWALK, 8 IN."	--	248.800	S.Y.	80.00	19,904.00
0	6123000A	TRUCK OR TRAILER MOUNTED ATTENUATOR (TMA)	--	1.000	EACH	3,200.00	3,200.00
0	6161005	CONSTRUCTION SIGNS	--	425.000	S.F.	7.50	3,187.50
0	6161025	CHANNELIZER (TRIM LINE)	--	75.000	EACH	22.00	1,650.00
0	6161040	FLASHING ARROW PANEL	--	1.000	EACH	2,400.00	2,400.00
0	6161099	"CHANGEABLE MESSAGE SIGN WITH COMMUNICATION INTERFACE, CONTRACTOR FURNISHED, CONTRACTOR RETAINED"	--	2.000	EACH	4,800.00	9,600.00
0	6169902	MISC. {ADA COMPLIANT MOVEABLE BARRICADE}	--	20.000	EACH	100.00	2,000.00
0	6181000	MOBILIZATION	--	1.000	L.S.	64,668.50	64,668.50
0	6200036	"PREFORMED THERMOPLASTIC PAVEMENT MARKING, 30 IN WHITE MIDBLOCK"	--	70.000	EACH	205.00	14,350.00
0	6274000	CONTRACTOR FURNISHED SURVEYING AND STAKING	--	1.000	L.S.	16,167.12	16,167.12
0	8032000A	KENTUCKY BLUEGRASS SODDING	--	2,187.000	S.Y.	14.25	31,164.75
0	8061016	SEDIMENT REMOVAL	--	28.000	C.Y.	30.00	840.00
0	8061019	SILT FENCE	--	2,799.000	L.F.	4.25	11,895.75
<b>Category: Roadway</b>							<b>\$976,573.92</b>

**Section: Signals**

Sort	Pay Item	Description	Count	Quantity	Unit	Unit Price	Extension
0	9020811	"SIGNAL HEAD, TYPE 1S, PEDESTRIAN"	--	14.000	EACH	650.00	9,100.00
0	9022708	"POST, SIGNAL 8 FT."	--	14.000	EACH	1,125.00	15,750.00
0	9025400	"CONDUIT, 4 IN., TRENCH WITH TRACER WIRE"	--	1,646.000	L.F.	15.00	24,690.00
0	9027400	"CONDUIT, 4 IN., PUSHED WITH TRACER WIRE"	--	613.000	L.F.	25.00	15,325.00
0	9028206	"CABLE, 6 AWG 1 CONDUCTOR, POWER"	--	160.000	L.F.	1.70	272.00



# Bid Report

<b>Project:</b> Estimate for sidewalk, midblocks, & ped signals	<b>Job Number:</b> J8S0836B - Ped Fac Only	<b>Bid Date:</b> 01/04/2024	<b>State:</b> MO
<b>Location:</b> Republic			

0	9028308	"CABLE, 16 AWG 2 CONDUCTOR"	--	4,420.000	L.F.	1.25	5,525.00
0	9028310	"CABLE, 16 AWG 5 CONDUCTOR"	--	4,460.000	L.F.	2.10	9,366.00
0	9028620	"POWER SUPPLY ASSEMBLY, TYPE 2"	--	1.000	EACH	13,750.00	13,750.00
0	9028811	"PULL BOX, PREFORMED CLASS 2"	--	9.000	EACH	2,300.00	20,700.00
0	9029100	"BASE, CONCRETE"	--	6.200	C.Y.	1,360.00	8,432.00
0	9029902	MISC. {2070 CONTROLLER}	--	2.000	EACH	20,000.00	40,000.00
0	9104920	"DETECTOR, PUSH BUTTON, INSTALLED"	--	14.000	EACH	600.00	8,400.00

**Category: Signals** **\$171,310.00**

**Section: Signing**

Sort	Pay Item	Description	Count	Quantity	Unit	Unit Price	Extension
0	9031281A	DRIVEN POST ANCHOR FOR 2.5 IN. PSST - 7 GA.	--	32.000	EACH	275.00	8,800.00
0	9031285	CONCRETE POST ANCHOR FOR 2.5 IN. PSST - 7 GA.	--	2.000	EACH	355.00	710.00
0	9035004A	SH-FLAT SHEET	--	50.000	S.F.	25.00	1,250.00

**Category: Signing** **\$10,760.00**

**Total: \$1,158,643.92**

REPORT PARAMETERS	
Project	J8S0836B - Ped Fac Only - Estimate for sidewalk, midblocks, & ped signals
Comparison	Bid Price

PROJECT SUMMARY REPORT FOR 8S0836E AS OF Oct 11, 2023

Work District	SOUTHWEST	Status	ONEDOT APPROVED	Version	APPROVED STIP	Project Manager	WARNER SHERMAN	Payment Project	N
Award Month/Award Year		Letting Date		Estimated Submittal Date	Mar 02, 2023	Let by	CENTRAL OFFICE	Letting Exclusion	N

Primary Route	RT MMS	County	GREENE
Description / Location	Scoping for roadway improvements from Rte. 360 to <del>County Road 160</del> Haile St. in Republic.		
Reason / Remarks			
District Comments	Keep 8S0836 number for NEPA purposes.		

Project Amounts											Total Estimated Cost for the Project			
Typical Bridge	Major Bridge	Pavement	Safety	Mobility	Capital Improvement	Contingency	Other Non-Contractual	Right of Way Acquisition	Preliminary Engineering	Construction Engineering				
1200	0	0	0	0	<del>500</del> 4888	<del>12,175</del> 122	<del>994</del> 1400	146	943	1218				
<b>Total Bridge</b>	1200				<b>Total Contract Estimate</b> 6088	<b>Total Construction</b> 12,675	<b>Total Right of Way and Construction</b> 7610	<b>Total Engineering</b> 14,923	<b>Total Project</b> 9917	<b>Total Project</b> 17,667				

Use 15%      Use 20%

Yearly Program Amounts	Amount Programmed by SFY										Program Total	Project Total
	Prior to 2024	2024	2025	2026	2027	2028	2029	Future				
Preliminary Engineering	100	100	100	100	100				1,311	400	1,811	
Construction Engineering					0				1,014	0	1,014	
Right of Way Acquisition					0				919	0	919	
Construction					0				13,923	0	13,923	
<b>Total</b>	<b>100</b>	<b>100</b>	<b>100</b>	<b>100</b>	<b>100</b>	<b>100</b>	<b>100</b>	<b>100</b>	<b>17,167</b>	<b>400</b>	<b>17,667</b>	

How the District is Funding the Project											
Funding Category											
System Improvements - CN	0	0	0	0	0	0	0	0	13,923	0	13,923
System Improvements - RW	0	0	0	0	0	0	0	0	919	0	919
<b>Total</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>14,842</b>	<b>0</b>	<b>14,842</b>

Funding From Other Sources Total	0	0	0	0	0	0	0	0	0	0	0
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Funds Transfer Total	0	0	0	0	0	0	0	0	0	0	0
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Total Right of Way and Construction	0	0	0	0	0	0	0	0	14,842	0	14,842
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Engineering	100	100	100	100	100	100	0	0	2,325	400	2,825
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Funding From Other Sources - Engineering Total	0	0	0	0	0	0	0	0	0	0	0
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Funds Transfer - Engineering Total	0	0	0	0	0	0	0	0	0	0	0
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Total Engineering	100	100	100	100	100	100	0	0	2,325	400	2,825
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Total Project	100	100	100	100	100	100	0	0	17,167	400	17,667
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Bridge Count	1	Railroads Impacted	0	Improvement	Action	Detailed Work	Federal Funds Category	Initiatives
Bridges				BRIDGE		BRIDGE MISC	STBG	
				MOBILITY	ADD	AUXILIARY LANES		
				CAPITAL IMPROVEMENT	ADD	INTERCHANGE		

A5907

Route	Begin Log	End Log	Begin County	TMA	Travelway ID	System	Functional Class	NHS	AADT	Conflict of Interest
RT MMS	1.664	<del>1.600</del> 2.54	GREENE	Y	2,605	SUPPLEMENTARY	MINOR ARTERIAL	N	6,478	N

NO RR  
NO SAFETY SPLIT  
YES ADA  
YES UTILITIES  
YES R/W

## Assumptions

### J8S0836E, Greene County, Route MM

(All estimate numbers in 1000's: \$100,000 = 100)

Typical Bridge	Major Bridge	Pavement	Safety*	Mobility	Capital Improvement	Total Construct Est.
1200	0	0	298	0	4590	6088

<b>Reasons for change</b>	40% (\$5255k) decrease due to change in project length from 1.436mi to 0.876mi
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**Pavement/Safety/Mobility/Capital Improvement:** This project will increase capacity (by widening to 5 lanes) and extend new sidewalk along Rte. MM between the Route 360 interchange and Haile St. Bid item prices based on historical data at the county, district, & statewide levels.

<b>Typical Bridge/Major Bridge:</b>	<b>Bridge Split:</b>	<b>1200</b>	Include all bridge pay item cost (removal of BR, BAS, etc)
Bridge estimate received 08/08/2023 from Bridge Division. Includes costs associated with widening bridge #A5907 to accommodate additional lanes over James River Freeway (Rte. 360) and to replace approach slabs.			

#### Other Non Contractuals

Utilities	RR Flagging	A+B/ LS Incentives	Smoothness Incent	Total
1400	0	0	0	1400

Utility Costs reflected in estimate obtained from Southwest Utilities Department dated 10/24/2023.

#### Right of Way Costs

R/W Acquisition
146

Right of Way Costs reflected from Right of Way estimate dated 10/03/2023. Acquisition ONLY. ROW Incidental included in PE now.

#### Preliminary Engineering Costs

Prelim. Eng and	Design PE	R/W Incidentals
943	913	30

Design PE Based upon 15% costs associated with a similar type of project as represented in chart/historical data/etc. See District PE CE Percentages on Project Development SP or visit Planning SP site. R/W Incidentals cost reflected from right of way estimate dated 10/03/2023.

#### Construction Engineering Costs

Constr. Engr.
1218

Based upon the usual 20% of total construction costs. See District PE CE Percentages on Project Development SP.

#### \*Safety Features

Total Safety Feature Cost
298

Safety features include replacing existing MGS Guardrail, CETs, bridge approach transitions, striping, and new raised median.

#### Bike/Pedestrian Improvements

Total Bike/Ped Imp
0

N/A

#### RailRoad Impacts

N/A

RR Crossing DOT #	RR Crossing DOT #	RR Crossing DOT #	RR Crossing DOT #
0	0	0	0

**\*Safety Features (All estimate numbers in 1000's: \$100,000 = 100)**

Separate each individual safety feature and information specific to that feature itself(i.e. new rumble strips, guardrail, 2' shoulders

Specific Safety Feature	Safety Feature Cost	Improvement Life	Fatal Crash Reduction	Serious Crash Reduction
Replace Guardrail	50			
Specific Safety Feature	Safety Feature Cost	Improvement Life	Fatal Crash Reduction	Serious Crash Reduction
Striping	25			
Specific Safety Feature	Safety Feature Cost	Improvement Life	Fatal Crash Reduction	Serious Crash Reduction
Median Island	223			
Specific Safety Feature	Safety Feature Cost	Improvement Life	Fatal Crash Reduction	Serious Crash Reduction
Specific Safety Feature	Safety Feature Cost	Improvement Life	Fatal Crash Reduction	Serious Crash Reduction

Add additional safety features as needed. Make sure the added boxes are summed on the first page.

Jonathan Galvez  


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**Estimator**

1/9/2024  


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**Date**

Sharon Needham  


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**Transportation Project Designer**

1/9/2024  


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**Date**

Bud Sherman  


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**Project Manager**

1/9/2024  


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**Date**

# Bid Report

<b>Project:</b> MM Corridor Improvements. Two additional lanes on east side of roadway. Preliminary Plans	<b>Job Number:</b> J8S0836E	<b>Bid Date:</b> 11/23/2021	<b>State:</b> MO
<b>Location:</b> Rte. MM between Haile St. 360 interchange			

### Project Settings

<b>Primary County:</b> GREENE	<b>Urban / Rural:</b> URBAN ROUTE
<b>Addl Counties:</b>	<b>Project Type:</b> GRADING, DRAINAGE, BRIDGE & PAVING
<b>District:</b> Southwest	<b>Work Type:</b> NEW CONSTRUCTION
<b>Latitude:</b> 37° 10' 08"	<b>Traffic:</b> Heavy Traffic (over 1700 DAT)
<b>Longitude:</b> 93° 25' 26"	<b>Estimator:</b> Jonathan.galvez@modot.mo.gov
<b>Log Mile:</b> <b>Beg:</b>	<b>Constr Eng:</b> 0.00%
<b>End:</b>	<b>Priced Date:</b> 11/28/2023
<b>Station:</b> <b>Beg:</b> 28+03.57	<b>Create Date:</b> 10/10/2023
<b>End:</b> 178+00.00	<b>Fed Project No:</b>
<b>Project Length:</b> 0.8060 miles	<b>Mobe Percent:</b> 6.00%
<b>Route:</b> MM	<b>Survey Percent:</b> 1.50%

### Project Sections

1 Roadway	\$3,788,091.88	62.22%
10 MGS Guardrail Items	\$49,700.00	0.82%
20 Lighting	\$225,000.00	3.70%
30 Signals	\$725,000.00	11.91%
40 Signing	\$100,000.00	1.64%
70 Bridge or Retaining Wall	\$1,200,000.00	19.71%
<b>Total</b>	<b>\$6,087,791.88</b>	<b>100.0%</b>

### STIP Information

Construction Cost	\$6,087,791.88	62.16%
PE (15.00% of construction cost)	\$913,168.78	9.32%
CE (20.00% of construction cost)	\$1,217,558.38	12.43%
R/W	\$146,000.00	1.49%
R/W Incidentals	\$30,000.00	0.31%
Utilities	\$1,400,000.00	14.29%
Incentive	\$0.00	0.00%
<b>Total</b>	<b>\$9,794,519.04</b>	<b>100.0%</b>

### Major Categories

BRIDGE	\$1,270,217.50	20.86%
GRADE/DRAIN	\$756,248.75	12.42%
MISC.	\$2,615,816.22	42.97%
PAVEMENT/BASE	\$1,445,509.40	23.74%
<b>Total</b>	<b>\$6,087,791.87</b>	<b>100.0%</b>

<b>Project:</b> MM Corridor Improvements. Two additional lanes on east side of roadway. Preliminary Plans	<b>Job Number:</b> J8S0836E	<b>Bid Date:</b> 11/23/2021	<b>State:</b> MO
<b>Location:</b> Rte. MM between Haile St. 360 interchange			

Section: Roadway

Sort	Pay Item	Description	Count	Quantity	Unit	Unit Price	Extension
38	2013000	CLEARING AND GRUBBING	--	6.000	ACRE	3,800.00	22,800.00
0	2022010	REMOVAL OF IMPROVEMENTS	--	1.000	L.S.	118,000.00	118,000.00
0	2035000	UNCLASSIFIED EXCAVATION	--	3,471.000	C.Y.	18.00	62,478.00
0	2035500	EMBANKMENT IN PLACE	--	22,111.000	C.Y.	21.50	475,386.50
0	2036000	COMPACTING EMBANKMENT	--	2,670.000	C.Y.	5.50	14,685.00
0	2037075	COMPACTING IN CUT	--	42.600	STA.	1,400.00	59,640.00
0	2079903	MISC. {LINEAR GRADING FOR ADA FACILITIES}	--	4,257.000	L.F.	13.75	58,533.75
0	2101006A	SUBGRADE COMPACTION (6-INCH DEPTH)	--	13.000	100FT	600.00	7,800.00
0	2121000A	SUBGRADING AND SHOULDERING CLASS 1	--	9.000	100FT	1,800.00	16,200.00
0	3040506	TYPE 5 AGGREGATE FOR BASE (6 IN. THICK)	--	13,392.000	S.Y.	18.00	241,056.00
0	3105002	GRAVEL (A) OR CRUSHED STONE (B)	--	200.000	TON	40.00	8,000.00
0	4010150	TYPE A2 SHOULDER	--	977.800	S.Y.	45.00	44,001.00
0	4019905	MISC. {OPTIONAL PAVEMENT}	--	13,490.700	S.Y.	77.00	1,038,783.90
0	5041000	CONCRETE APPROACH PAVEMENT	--	688.900	S.Y.	165.00	113,668.50
0	6083008	8 IN. CONCRETE MEDIAN STRIP	--	2,344.900	S.Y.	95.00	222,765.50
0	6085008	"PAVED APPROACH, 8 IN."	--	1,050.000	S.Y.	89.00	93,450.00
0	6091052	CURB AND GUTTER TYPE B	--	3,463.000	L.F.	45.00	155,835.00
0	6091060	PAVED DITCH	--	214.000	S.Y.	105.00	22,470.00
0	6096020	FURNISHING TYPE 2 ROCK DITCH LINER	--	269.000	C.Y.	51.50	13,853.50
0	6096042	PLACING TYPE 2 ROCK DITCH LINER	--	269.000	C.Y.	45.00	12,105.00
0	6097000	ROCK LINING	--	32.000	C.Y.	130.00	4,160.00
0	6123000A	TRUCK OR TRAILER MOUNTED ATTENUATOR (TMA)	--	1.000	EACH	3,200.00	3,200.00
0	6161005	CONSTRUCTION SIGNS	--	800.000	S.F.	7.50	6,000.00
0	6161008	ADVANCED WARNING RAIL SYSTEM	--	4.000	EACH	100.00	400.00
0	6161025	CHANNELIZER (TRIM LINE)	--	175.000	EACH	22.00	3,850.00
0	6161030	TYPE III MOVEABLE BARRICADE	--	2.000	EACH	220.00	440.00
0	6161040	FLASHING ARROW PANEL	--	1.000	EACH	2,400.00	2,400.00
0	6161099	"CHANGEABLE MESSAGE SIGN WITH COMMUNICATION INTERFACE, CONTRACTOR FURNISHED, CONTRACTOR RETAINED"	--	7.000	EACH	4,800.00	33,600.00
0	6162002	TEMPORARY LONG-TERM RUMBLE STRIPS	--	10.000	EACH	1,850.00	18,500.00
0	6169902	MISC. {ADA MOVEABLE BARRICADE}	--	15.000	EACH	100.00	1,500.00
0	6181000	MOBILIZATION	--	1.000	L.S.	339,783.73	339,783.73

# Bid Report

<b>Project:</b> MM Corridor Improvements. Two additional lanes on east side of roadway. Preliminary Plans	<b>Job Number:</b> J8S0836E	<b>Bid Date:</b> 11/23/2021	<b>State:</b> MO
<b>Location:</b> Rte. MM between Haile St. 360 interchange			

0	6181020	ADDITIONAL MOBILIZATION FOR SEEDING	--	4.000 EACH	600.00	2,400.00
0	6191000	PAVEMENT EDGE TREATMENT	--	10,384.000 L.F.	3.25	33,748.00
0	6200015	"PREFORMED THERMOPLASTIC PAVEMENT MARKING, 24 IN. WHITE"	--	204.000 L.F.	30.00	6,120.00
0	6200018	"PREFORMED THERMOPLASTIC PAVEMENT MARKING, 24 IN. YELLOW"	--	73.000 L.F.	33.50	2,445.50
0	6200021	"PREFORMED THERMOPLASTIC PAVEMENT MARKING, LEFT/RIGHT ARROW"	--	24.000 EACH	250.00	6,000.00
0	6200030	"PREFORMED THERMOPLASTIC PAVEMENT MARKING, WORD (ONLY)"	--	8.000 EACH	460.00	3,680.00
0	6200042	"PREFORMED THERMOPLASTIC PAVEMENT MARKING, 12 IN WHITE, YIELD LINE TRIANGLES"	--	40.000 EACH	42.25	1,690.00
0	6205902A	"6 IN. WHITE HIGH BUILD WATERBORNE PAVEMENT MARKING PAINT, TYPE L BEADS"	--	336.000 L.F.	0.30	100.80
0	6206000C	"4 IN. WHITE STANDARD WATERBORNE PAVEMENT MARKING PAINT, TYPE P BEADS"	--	19,428.000 L.F.	0.18	3,497.04
0	6206001C	"4 IN. YELLOW STANDARD WATERBORNE PAVEMENT MARKING PAINT, TYPE P BEADS"	--	10,714.000 L.F.	0.18	1,928.52
0	6240104A	SEPARATION GEOTEXTILE	--	1,250.000 S.Y.	3.50	4,375.00
0	6274000	CONTRACTOR FURNISHED SURVEYING AND STAKING	--	1.000 L.S.	84,945.93	84,945.93
0	7034041	CLASS B-1 CONCRETE (CULVERTS)	--	38.000 C.Y.	1,520.00	57,760.00
0	7061030	REINFORCING STEEL (CULVERTS)	--	4,530.000 LBS	2.75	12,457.50
0	7250315A	15 IN. PIPE GROUP B	--	33.000 L.F.	55.00	1,815.00
0	7250318A	18 IN. PIPE GROUP B	--	236.000 L.F.	72.00	16,992.00
0	7261054	54 IN. PIPE GROUP A	--	19.000 L.F.	300.00	5,700.00
0	7320018A	18 IN. OR ALLOWED SUBSTITUTE GROUP B FLARED END SECTION	--	4.000 EACH	850.00	3,400.00
0	7320654A	54 IN. OR ALLOWED SUBSTITUTE GROUP A FLARED END SECTION	--	1.000 EACH	3,500.00	3,500.00
0	8032000A	KENTUCKY BLUEGRASS SODDING	--	5,000.000 S.Y.	14.25	71,250.00
0	8051000A	SEEDING - COOL SEASON MIXTURES	--	2.900 ACRE	2,500.00	7,250.00
0	8052000A	SEEDING - WARM SEASON MIXTURES	--	2.900 ACRE	3,500.00	10,150.00
0	8061001	SEDIMENT BASIN EXCAVATION	--	617.000 C.Y.	25.00	15,425.00
0	8061002	SEDIMENT BASIN ROCK	--	617.000 C.Y.	75.00	46,275.00
0	8061003	SEDIMENT TRAP EXCAVATION	--	56.600 C.Y.	32.00	1,811.20
0	8061004	SEDIMENT TRAP ROCK	--	56.600 C.Y.	115.00	6,509.00
0	8061005	ROCK DITCH CHECK	--	2,500.000 L.F.	15.25	38,125.00
0	8061007A	CURB INLET CHECK	--	38.000 EACH	162.00	6,156.00
0	8061016	SEDIMENT REMOVAL	--	690.000 C.Y.	30.00	20,700.00
0	8061017	TEMPORARY SEEDING AND MULCHING	--	2.000 ACRE	1,150.00	2,300.00
0	8061019	SILT FENCE	--	9,500.000 L.F.	4.25	40,375.00
0	8064133	TYPE 1C EROSION CONTROL BLANKET	--	10,773.000 S.Y.	5.00	53,865.00

**Category: Roadway \$3,788,091.87**

# Bid Report

<b>Project:</b> MM Corridor Improvements. Two additional lanes on east side of roadway. Preliminary Plans	<b>Job Number:</b> J8S0836E	<b>Bid Date:</b> 11/23/2021	<b>State:</b> MO
<b>Location:</b> Rte. MM between Haile St. 360 interchange			

**Section: MGS Guardrail Items**

Sort	Pay Item	Description	Count	Quantity	Unit	Unit Price	Extension
0	6061060	MGS GUARDRAIL	--	800.000	L.F.	28.00	22,400.00
0	6061069	MGS BRIDGE APPROACH TRANSITION SECTION (REGULAR/NO CURB)	--	4.000	EACH	3,575.00	14,300.00
0	6063014	TYPE A CRASHWORTHY END TERMINAL (MASH)	--	4.000	EACH	3,250.00	13,000.00
<b>Category: MGS Guardrail Items</b>							<b>\$49,700.00</b>

**Section: Lighting**

Sort	Pay Item	Description	Count	Quantity	Unit	Unit Price	Extension
0	9019901	MISC. {LIGHTING}	--	1.000	L.S.	225,000.00	225,000.00
<b>Category: Lighting</b>							<b>\$225,000.00</b>

**Section: Signals**

Sort	Pay Item	Description	Count	Quantity	Unit	Unit Price	Extension
0	9029901	MISC. {SIGNALS}	--	1.000	L.S.	725,000.00	725,000.00
<b>Category: Signals</b>							<b>\$725,000.00</b>

**Section: Signing**

Sort	Pay Item	Description	Count	Quantity	Unit	Unit Price	Extension
0	9039901	MISC. {SIGNING}	--	1.000	L.S.	100,000.00	100,000.00
<b>Category: Signing</b>							<b>\$100,000.00</b>

**Section: Bridge or Retaining Wall**

Sort	Pay Item	Description	Count	Quantity	Unit	Unit Price	Extension
0	7019901	MISC. {NEW BRIDGE}	--	1.000	L.S.	1,200,000.00	1,200,000.00
<b>Category: Bridge or Retaining Wall</b>							<b>\$1,200,000.00</b>

**Total: \$6,087,791.87**

REPORT PARAMETERS	
Project	J8S0836E - MM Corridor Improvements. Two additional lanes on east side of roadway. Preliminary Plans
Comparison	Bid Price



# Bid Report

<b>Project:</b> Pedestrian Facilities for J8S0836E	<b>Job Number:</b> J8S0836E-Ped Fac Only	<b>Bid Date:</b> 01/08/2024	<b>State:</b> MO
<b>Location:</b> MM from RTE 360 interchange to Haile st.			

**Project Settings**

<b>Primary County:</b> GREENE	<b>Urban / Rural:</b> RURAL ROUTE
<b>Addl Counties:</b>	<b>Project Type:</b> MISCELANEOUS - NOT INCLUDED IN OTHER
<b>District:</b> Southwest	<b>Work Type:</b>
<b>Latitude:</b> 37° 10' 08"	<b>Traffic:</b>
<b>Longitude:</b> 93° 25' 26"	<b>Estimator:</b> Jonathan.galvez@modot.mo.gov
<b>Log Mile:</b> <b>Beg:</b>	<b>Constr Eng:</b> 26.00%
<b>End:</b>	<b>Priced Date:</b> 1/9/2024
<b>Station:</b> <b>Beg:</b> 28+03.57	<b>Create Date:</b> 1/8/2024
<b>End:</b> 178+00.00	<b>Fed Project No:</b>
<b>Project Length:</b> 0.8060 miles	<b>Mobe Percent:</b> 6.00%
<b>Route:</b> MM	<b>Survey Percent:</b> 1.50%

**Project Sections**

1 Roadway	\$413,470.19	93.98%
30 Signals	\$23,837.00	5.42%
40 Signing	\$2,670.00	0.61%
<b>Total</b>	<b>\$439,977.19</b>	<b>100.0%</b>

**Major Categories**

BRIDGE	\$0.00	0.00%
GRADE/DRAIN	\$61,206.25	13.91%
MISC.	\$338,612.94	76.96%
PAVEMENT/BASE	\$40,158.00	9.13%
<b>Total</b>	<b>\$439,977.19</b>	<b>100.0%</b>

**STIP Information**

Construction Cost	\$439,977.19	62.89%
PE (33.00% of construction cost)	\$145,192.47	20.75%
CE (26.00% of construction cost)	\$114,394.07	16.35%
R/W	\$0.00	0.00%
R/W Incidentals	\$0.00	0.00%
Utilities	\$0.00	0.00%
Incentive	\$0.00	0.00%
<b>Total</b>	<b>\$699,563.73</b>	<b>100.0%</b>

# Bid Report

<b>Project:</b> Pedestrian Facilities for J8S0836E	<b>Job Number:</b> J8S0836E-Ped Fac Only	<b>Bid Date:</b> 01/08/2024	<b>State:</b> MO
<b>Location:</b> MM from RTE 360 interchange to Haile st.			

**Section: Roadway**

Sort	Pay Item	Description	Count	Quantity	Unit	Unit Price	Extension
0	2071000	LINEAR GRADING CLASS 1	--	1.500	STA.	4,000.00	6,000.00
0	2079903	MISC. {LINEAR GRADING FOR ADA FACILITIES}	--	4,015.000	L.F.	13.75	55,206.25
0	3040143	TYPE 1 AGGREGATE FOR BASE (4 IN. THICK)	--	2,231.000	S.Y.	18.00	40,158.00
0	6081010	CONCRETE CURB RAMP	--	402.200	S.Y.	200.00	80,440.00
0	6081012	TRUNCATED DOMES	--	180.000	S.F.	37.50	6,750.00
0	6086004	"CONCRETE SIDEWALK, 4 IN."	--	2,230.800	S.Y.	72.00	160,617.60
0	6123000A	TRUCK OR TRAILER MOUNTED ATTENUATOR (TMA)	--	1.000	EACH	3,200.00	3,200.00
0	6161005	CONSTRUCTION SIGNS	--	425.000	S.F.	7.50	3,187.50
0	6169902	MISC. {ADA COMPLIANT MOVEABLE BARRICADE}	--	4.000	EACH	100.00	400.00
0	6181000	MOBILIZATION	--	1.000	L.S.	24,556.87	24,556.87
0	6200036	"PREFORMED THERMOPLASTIC PAVEMENT MARKING, 30 IN WHITE MIDBLOCK"	--	32.000	EACH	205.00	6,560.00
0	6274000	CONTRACTOR FURNISHED SURVEYING AND STAKING	--	1.000	L.S.	6,139.22	6,139.22
0	8032000A	KENTUCKY BLUEGRASS SODDING	--	892.000	S.Y.	14.25	12,711.00
0	8061016	SEDIMENT REMOVAL	--	17.000	C.Y.	30.00	510.00
0	8061019	SILT FENCE	--	1,655.000	L.F.	4.25	7,033.75

**Category: Roadway \$413,470.19**

**Section: Signals**

Sort	Pay Item	Description	Count	Quantity	Unit	Unit Price	Extension
0	9020811	"SIGNAL HEAD, TYPE 1S, PEDESTRIAN"	--	4.000	EACH	650.00	2,600.00
0	9022708	"POST, SIGNAL 8 FT."	--	6.000	EACH	1,125.00	6,750.00
0	9027400	"CONDUIT, 4 IN., PUSHED WITH TRACER WIRE"	--	150.000	L.F.	25.00	3,750.00
0	9028206	"CABLE, 6 AWG 1 CONDUCTOR, POWER"	--	150.000	L.F.	1.70	255.00
0	9028308	"CABLE, 16 AWG 2 CONDUCTOR"	--	600.000	L.F.	1.25	750.00
0	9028310	"CABLE, 16 AWG 5 CONDUCTOR"	--	600.000	L.F.	2.10	1,260.00
0	9029100	"BASE, CONCRETE"	--	2.700	C.Y.	1,360.00	3,672.00
0	9104920	"DETECTOR, PUSH BUTTON, INSTALLED"	--	8.000	EACH	600.00	4,800.00

**Category: Signals \$23,837.00**

**Section: Signing**

Sort	Pay Item	Description	Count	Quantity	Unit	Unit Price	Extension
0	9031285	CONCRETE POST ANCHOR FOR 2.5 IN. PSST - 7 GA.	--	4.000	EACH	355.00	1,420.00

# Bid Report

<b>Project:</b> Pedestrian Facilities for J8S0836E	<b>Job Number:</b> J8S0836E-Ped Fac Only	<b>Bid Date:</b> 01/08/2024	<b>State:</b> MO
<b>Location:</b> MM from RTE 360 interchange to Haile st.			

0	9035004A	SH-FLAT SHEET	--	50.000 S.F.	25.00	1,250.00
---	----------	---------------	----	-------------	-------	----------

**Category: Signing** **\$2,670.00**

**Total: \$439,977.19**

REPORT PARAMETERS	
Project	J8S0836E-Ped Fac Only - Pedestrian Facilities for J8S0836E
Comparison	Bid Price

## Jonathan Galvez

---

**From:** Ted S. Koester  
**Sent:** Tuesday, August 8, 2023 10:49 AM  
**To:** Jonathan Galvez  
**Cc:** Bud Sherman; Kevin G. Fox  
**Subject:** RE: 8S0836E Bridge at MM & 360 (A5907)

Bud,

I ran the numbers on widening the bridge 24' and at \$160 per sq.ft. and a little extra contingency the preliminary estimate is \$1,200,000.

Thanks,

**Ted Koester, P.E.**

*Structural Project Manager*

**Missouri Department of Transportation**

Central Office – Bridge Division  
105 W. Capitol Ave., P.O. Box 270, Jefferson City, MO 65102  
573-751-4229  
Monday – Friday 7:00 a.m. to 3:30 p.m.  
[www.modot.org](http://www.modot.org)

---

**From:** Jonathan Galvez <Jonathan.Galvez@modot.mo.gov>  
**Sent:** Tuesday, August 8, 2023 10:29 AM  
**To:** Ted S. Koester <Ted.Koester@modot.mo.gov>  
**Cc:** Bud Sherman <Bud.Sherman@modot.mo.gov>; Kevin G. Fox <Kevin.Fox@modot.mo.gov>  
**Subject:** 8S0836E Bridge at MM & 360 (A5907)

Ted,

We are working on preliminary plans for 8S0836E. We are adding 2 lanes on the east side of MM for most of the project limits. We need to know what this bridge layout will look like. Can we just do 5 lanes shifted to the east, or do we need to do something different? Let me know if you have any questions.

Thanks,

**Jonathan Galvez**

*Intermediate Highway Designer*

**Missouri Department of Transportation**

Southwest District  
3025 E. Kearney Street, Springfield, MO  
417-829-8019

## Right of Way Cost Estimate Worksheet

County: Greene  
 Route: MM, 160, & 60  
 Project: J8S0836E  
 Date: 10/3/2023

Fed. Project: \_\_\_\_\_  
 Alternate: \_\_\_\_\_  
 Termini: \_\_\_\_\_  
 Preparer: Miranda J Miller

**See EPG 236.3.3.3, Preparation of Right of Way Cost Estimate Forms. Each District shall maintain records sufficient to document all estimated costs.**

Use this form at the following stages: Project Initialization, Conceptual Plan/Location Study, Preliminary Plan and Right of Way Plan Complete.

1. Land, improvements, Rights and Damages:

a. Land

Use	<u>Land</u>	Area	<u>0.21</u>	<input type="checkbox"/> sf	<input checked="" type="checkbox"/> ac	<input checked="" type="checkbox"/> X	Estimated Unit value	\$ <u>\$315,000</u>	\$ <u>70,000</u>
Use	_____	Area	_____	<input type="checkbox"/> st	<input type="checkbox"/> ac	<input checked="" type="checkbox"/> X	Estimated Unit value	\$ _____	\$ _____
Use	_____	Area	_____	<input type="checkbox"/> sf	<input type="checkbox"/> ac	<input checked="" type="checkbox"/> X	Estimated Unit value	\$ _____	\$ _____
Total Land Value								\$ _____	\$ <u>70,000</u>

b. Improvements to be acquired:

**Attach list of improvements including billboards, and individual estimated values or show calculations if average value is estimated.**

Number of improvements \_\_\_\_\_ Estimated Value \$ \_\_\_\_\_

Fencing \_\_\_\_\_ l.f.  \$ \_\_\_\_\_ Per l.f. \$ \_\_\_\_\_

Total Improvement Value \$ 0

Subtotal of Land and Improvement Value \$ 70,000

c. Property Rights and Damages:

**Use % calculation or attach list of damaged improvements including billboards and their individual estimated damages.**

Access Rights, Easements and Consequential Damages

50 %  Subtotal of Land and Improvement Value \$ 70,000 \$ 35,000

Subtotal of Land, Improvements, Rights and Damages: \$ 105,000

2. Administrative Settlements:

30 %  Subtotal of Land, Improvements, Rights and Damages: \$ 105,000 \$ 35,000

3. Condemnation (including legal settlements):

5 %  Subtotal of Land, Improvements, Rights and Damages: \$ 105,000 \$ 6,000

4. Relocation Assistance:

Number of relocation parcels \_\_\_\_\_ X Average payment per parcel \$ \_\_\_\_\_ \$ \_\_\_\_\_

Alternate:  
 Total estimated relocation per attached list: \$ \_\_\_\_\_

**Estimated Right of Way Acquisition Costs:** \$ 146,000

5. Incidental Costs:

_____ %	X	Subtotal of Right of Way Acquisition Costs	\$ _____	\$ _____
Alternate:				
Number of parcels	_____ 3 _____	X	Incidental cost per parcel	\$ _____ 10,000 _____
<b>Total Right of Way Cost Estimate:</b>				\$ <u>176,000</u>

Assumptions and Comments:

Affected areas and location provided by design and previous cost estimate. Listing prices for property in the area range from \$50,000 to \$400,000 per acre. Due to the increase in demand in the area, a 25% increase in the per acre cost of land was applied to the previous estimate figure, resulting in an estimate of \$315,000 per acre. Administration and Condemnation percentages were determined based on historical data. Incidentals were added at \$10,000 per tract, based on an average of recent jobs. Estimated Right of Way Cost: \$146,000. Estimated Incidental Costs \$30,000. Total Right of Way Cost: \$176,000.

## Jonathan Galvez

---

**From:** Jared Z. Williams  
**Sent:** Tuesday, November 28, 2023 3:44 PM  
**To:** Jonathan Galvez  
**Cc:** Kirsty A. Little  
**Subject:** RE: J8S0836E Utility Estimate

Jon,

Let's go with \$1400K. There is a million dollar pole we're hitting here...

### **JARED Z. WILLIAMS**

*District Utilities Coordinator*

### **Missouri Department of Transportation**

Southwest District

3025 E. Kearney, Springfield, MO 65803

o: 417.829.8060

c: 417.343.3751

e: [jared.williams@modot.mo.gov](mailto:jared.williams@modot.mo.gov)

---

**From:** Jonathan Galvez <Jonathan.Galvez@modot.mo.gov>  
**Sent:** Tuesday, October 24, 2023 8:59 AM  
**To:** Jared Z. Williams <Jared.Williams@modot.mo.gov>  
**Cc:** Kirsty A. Little <Kirsty.Little@modot.mo.gov>  
**Subject:** J8S0836E Utility Estimate

Jared,

Do you have an update on this estimate?

Thanks,

### **Jonathan Galvez**

*Intermediate Highway Designer*

### **Missouri Department of Transportation**

Southwest District

3025 E. Kearney Street, Springfield, MO

417-829-8019

# Request for Environmental Services

## Form#:2024-12-00467

Alternative Project Delivery Method (such as Design/Build)

### Project Information

Stage: Preliminary Plans Previous RES(s): 2022-02-00657  
Job Number (w/o 'J'): 8S0836B District: Southwest County: GREENE  
TIP Number: Rte/Street: RT MM  
Letting Date: 07/19/2024 PS&E Due Date: 05/13/2024  
Location: Add lanes on Brookline Avenue from I-44 to Rte. 360 (James River Freeway) in Republic.  
TMS Project Description - Add lanes on Brookline Avenue from I-44 to Rte. 360 (James River Freeway) in Republic.  
termini (no stations):

These users will receive a notification when Environmental Services completes the current stage, the person who created this form as well as the person who submits it will also receive notification.

Project Manager: Bud Sherman - 417-895-7690 TP Designer: Sharon Needham - 417-829-8038  
District Contact: Orren Ricketts - 417-895-7673 District Contact: None selected  
Contact: None selected  
Date Desired: 01/06/2024 Submit Date: 12/07/2023  
Desired A-Date: 10/01/2022  
Created By: Bud Sherman - (12/7/2023 5:31:10 AM) - 417-895-7690 Submitted By: Bud Sherman - (12/7/2023 12:00:00 AM) - 417-895-7690

#### Program Year:

Preliminary Engineering: 2023 Right of Way: 2024  
Construction: 2025

Has the district documented that each location of the project has: 1. Independent utility, 2. Logical termini, and 3. Does not restrict consideration of alternatives for other reasonably foreseeable transportation improvements?:  Yes  No

Changes to project since last RES submittal? If yes, explain: Yes, More concise scope of 5-lane corridor, development of slope lines and r/w lines estimate. See attached preliminary plans for more information. Traffic control will be staged with no full closures of existing routes. Access management report attached for more explanation of project. Noise study has been completed and report attached. Letting date will be set for Fall 2024 in combination with 8S0836D.

Design/Build  Alternate Technical Concepts

Cumulative ROW and Easements of all locations (acres): 13.1

### Bicycle / Pedestrian Consideration

Pedestrian facilities considered: Yes Bicycle facilities considered: Yes



**Any Public Involvement planned or completed:**

Impacted property owners have been notified by City of Republic. Public meeting has been held on February 28, 2022 with the City of Republic and OTO. No comments received that require response.

**Project Attachments:**

**\*\*NOTE: If making updates to an attachment, please use a different filename than the original.  
\*\*The combined size of attachments in one upload must be less than 100MB**

Attachments:

✘ J8S0836B\_Access Management Report.pdf

✘ J8S0836B Noise Study Report - Final.pdf

✘ 2023.05.19\_J8S0836B\_Preliminary\_Plans.pdf

**Required Information to be attached for each RES stage:**

- **Loc/Concp.:** Location map (county map) & topographic map or aerial photo showing project limits – pre-plan sheets or other preliminary maps showing alternatives, if available
- **Prel. Plan:** Prel. Plan sheets
- **R/W:** R/W Plan sheets
- **Final Design:** Final Plans [Location map (county map) & topographic map or aerial photo showing project limits if this is first RES submittal]

**Locations for this Request**

**Location Information**

Location Name: Previous Location: 8279 -

Describe RES project improvements in full detail: The Location & Project Description stated above are incorrect....This project's limits will start on the northside of I-44 and end on the northside of James River Freeway (MO-360) in Republic This project involves 5-laning Rte MM and is related to project J8S0836 - the relocation of Route MM south of James River Freeway.

Project breakout from previous or larger project? *If checked explain:*  
Associated with J8S0836

Stage: Preliminary Plans County: GREENE

TMS Project Description - termini (no stations): Add lanes on Brookline Avenue from I-44 to Rte. 360 (James River Freeway) in Republic.

**Acres - From all sources (e.g. donated from public or private entities):**

**Additional R/W (acres):** 9.9      **Temp Easement (acres):** 1.8      **Permanent Easement (acres):** 1.4

ROW may be needed, but, not yet determined? Yes      Acres of Tree Clearing: .5 acres  
DO NOT CLEAR TREES W/O MODOT'S PRIOR WRITTEN APPROVAL.

Is ANY Federally-owned land impacted by the project?  Yes  No

**Land Disturbance / Stormwater:**

Will project involve 1 acre of land disturbance:  Yes  No  Unknown

Projects with one acre or greater land disturbance activities must comply with the Land Disturbance

Define project type (see definitions below):  New Development  Redevelopment  Maintenance

Permit requirements.

**New Development** - Projects (with land disturbance greater than or equal to 1 acre) that are constructed where there was previously no transportation facility.

**Redevelopment** - Non-maintenance work performed to or on an existing public transportation facility which provides for an increased number of thru lanes of travel unless the work can be accommodated without increasing the width of the existing pavement. Widening of an existing road that does not result in an additional thru lane does not constitute redevelopment. Widening to add shoulders does not constitute a thru lane unless the total widening is greater than or equal to 10 feet.

**Maintenance** - Projects that do not meet the criteria of redevelopment or new development.

Was coordination with local counties or cities conducted?  Yes  No

If yes, please provide a short description of the coordination:

**Number of Displacements(do not include partial takes that do not displace):**

Residential:  Yes  No Commercial:  Yes  No  
No. of People: 8? Residences: 4 No. of Employees: Businesses:

**Average Daily Traffic:**

ADT Construction Year: 10,064 - 2-way 2021 ADT Design Year:

**Traffic Impacts:**

Road Closure Planned:  Yes  No Bridge Closure Planned:  Yes  No  
Days/Months Closed: Detour > 25 mi rural (including local roads)  Yes  No  
Detour > 5 mi urban (including local roads, census defined urban)  Yes  No

Detour Info (including use of local roads): If necessary, James River Freeway (MO 360) and I-44 can provide a detour.

**National Flood Insurance Program (NFIP) and Hydraulic Design Data:**

- Project is in a FEMA-identified zone "subject to 100-year flooding": *If so, what zone?:*  
Project is in a FEMA-defined "floodway"
- Project involves land purchased through FEMA Hazard Mitigation Grant Program (Flood buyout property)  
*If checked, give details:*
- Is highway improvement located within 4 miles of an existing airport?

Please note that the District is responsible for obtaining the necessary permits for the project. See the following [Airport Link](#)

**Known Concerns: Provide information you have about these resources that you have observed in the area.**

Parkland: There is a small playground at the Brookline First Baptist Church on the east side of Rte MM just north of James River Freeway  
Wetland/404 Permit: none

Land Disturbance / Stormwater:	none
Farmland:	Outside of city limits. There is farmland in the area.
Threatened & Endangered Species:	unknown
Migratory Birds: Are there birds nesting on the structure?	Unknown,
Hazardous Waste:	unknown
Cultural Resources:	unknown

District Comments: This project is related to J8S0836

### Location Attachments:

**\*\*NOTE: If making updates to an attachment, please use a different filename than the original.**

**\*\*The combined size of attachments in one upload must be less than 100MB**

#### Attachments:

##### Required Information to be attached for each RES stage:

- **Loc/Concp.:** Location map (county map) & topographic map or aerial photo showing project limits – pre-plan sheets or other preliminary maps showing alternatives, if available
- **Prel. Plan:** Prel. Plan sheets
- **R/W:** R/W Plan sheets
- **Final Design:** Final Plans [Location map (county map) & topographic map or aerial photo showing project limits if this is first RES submittal]

## RES Environmental Screenings

### Farmland Impact

Status Information: Status Changed By: Jo Dent  N/A  Pending  Cleared Clearance Date: 12/19/2023

Environmental Response: UPDATE 12/19/2023 - NRCS responded that the site contains prime, unique, or statewide important farmland. The environmental specialist completed Parts VI and VII and submitted the completed form to NRCS. The site received less than 160 points. Therefore, the site does not need to be given further consideration for protection and no additional sites need to be evaluated. UPDATE: 12/15/23 - The environmental specialist will submit farmland documentation to NRCS for review and response. INITIAL RESPONSE: (Brandon Baumhoer) New ROW and easements associated with this project will require a farmland impact rating from NRCS.

Environmental Action: UPDATE: 12/15/23 -The environmental specialist will submit documentation to NRCS for review and response. INITIAL RESPONSE: Complete Farmland Impact Rating once ROW and easement numbers are refined.

District Action: None

Commitments: None

#### Attachments:

✘ [Greene MM 8S0836B NRCS CPA-106 Form\\_12.19.23.pdf](#)

Farmland Impact Submitted - Mark submitted when this review is ready to be sent to district staff.

Last Updated: Samantha Sawyer - 12/19/2023 3:23:37 PM

## › Floodplain/Regulatory Floodway

Status Information: Status Changed By: Jo Dent  N/A  Pending  Cleared Clearance Date:

Environmental Response: Based on the attached FEMA Firmette maps, there are no areas of 100-year floodplain or regulatory floodway in the project limits. Floodplain permitting is not required.

Environmental Action: None

District Action: None

Commitments: None

### Attachments:

✘ [FEMA Firmette Map\\_Southern project limits.pdf](#)

✘ [FEMA Firmette Map\\_Mid project area.pdf](#)

✘ [FEMA Firmette Map\\_Northern project limits.pdf](#)

Floodplain/Regulatory Floodway Submitted - *Mark submitted when this review is ready to be sent to district staff.*

*Last Updated: Jo Dent - 12/15/2023 12:25:26 PM*

## › Land Disturbance / Stormwater

Status Information: Status Changed By: Hannah Phelps, Caleb Knerr  N/A  Pending  Cleared Clearance Date:

Environmental Response: According to a 2/18/2021 and 2/22/2022 and 12/13/2023 review of MoDOT's MS4 Urban Areas ArcGIS layer, the project is outside the TS4. (This applies regardless of land disturbance acreage).

Environmental Action: None

District Action: None

Commitments:

TS4 Area:  Yes  No  Partial

Is the project in a TMDL watershed?  Yes  No

### Attachments:

Land Disturbance / Stormwater Submitted - *Mark submitted when this review is ready to be sent to district staff.*

*Last Updated: Hannah Phelps - 12/13/2023 1:56:58 PM*

## › FEMA/SEMA Buyout

Status Information: Status Changed By: Jo Dent  N/A  Pending  Cleared Clearance Date:

Environmental Response: 12/15/23 - Based on a review of ArcMap GIS FEMA buyout layers, there are no buyout sites anywhere near the project area. The project will not result in development on any FEMA buyout sites. The FEMA Buyout Sites Map is attached.

Environmental Action: None

District Action: None

Commitments: None

### Attachments:

✘ [FEMA Buyout Sites Map.pdf](#)

FEMA/SEMA Buyout Submitted - *Mark submitted when this review is ready to be sent to district staff.*

*Last Updated: Jo Dent - 12/15/2023 12:38:12 PM*

## Socioeconomic Impact

Status Information:

Status Changed By:

Caitie Wiechman

N/A  Pending  Cleared

Comment Date:

Environmental  
Response:

UPDATE (2/15/23): It was determined that no residential or commercial displacements will be required for this project. Additionally, the road will remain open to the public during project construction. Traffic control will be staged with no full closures of existing routes. There are no significant socioeconomic impacts associated with this project. Impacts will be temporary and limited to traffic disruptions, construction noise, and fugitive dust and emissions in the area of project construction. UPDATE (2/09/2023): Bud Sherman informed the environmental specialist that no further public meetings will be held for this project. UPDATE (5/02/2022): The Southwest District posted project information at the following website, which lists the project timeline for the Route MM/ZZ Corridor, project displays and maps, and an overview of each individual section of the project. <https://www.modot.org/greene-county-route-mmzz-corridor> On February 28, 2022, the district held a come-and-go style public meeting. This meeting was held from 6-8 p.m. at the Republic Community Center, Rooms A and B (711 E. Miller Rd., Republic, MO). The public meeting did not conduct a formal presentation, but visitors were encouraged to engage with MoDOT and ask questions related to the project. The project location map, alternatives, and the proposed improvements were displayed during this public meeting. A two-week public comment period was offered from February 28 – March 11, 2021. Individuals wishing to provide comments were able to submit them by email, an online form from the public meeting website, or mailed to the Southwest District Office. MoDOT received a total of six email comments about the project. Primary concerns from the public include current and potential flooding impacts, roadway congestion due to road closures, access for emergency personnel during construction, limited community access due to road closures, and concerns over the complexity of the proposed roundabout at the new Route MM and Roue ZZ intersection. Overall, the majority of the concerns related to or were about the railroad crossings at Farm Road 93 and Farm Road 170. MoDOT responded that both railroad crossings are still under evaluation to determine the potential traffic impacts associated with closing the road. Currently, it is a possibility that the railroad crossing at Farm Road 93 will be able to remain open due to the built-in safety features, like J-turns and signalization. However, the railroad crossing at Farm Road 170 will require a closure because of safety concerns regarding possible encroachment or backup onto Route MM. To address the congestion concerns, MoDOT has determined that the new roundabout will be the best option to help prevent congestion, especially during weekday mornings and afternoons when school traffic is at peak volumes. INITIAL SCREENING: The project will require two residential displacements and does require new right of way, temporary easements, and permanent easements that are subject to the Uniform Relocation Assistance and Real Property Acquisition Policies Act of 1970, as amended. At this time, a road closure is not anticipated during project construction. However, James River Freeway (MO 360) and I-44 can provide a detour, if necessary. Impacted property owners will be notified by letter soon. Public will be engaged through public meetings and feedback will be incorporated into improvements. Additional information about the displacements, road closure, and public involvement will be require to continue to assess socioeconomic impacts.

Environmental Action:

COMPLETE: Continue to assess impacts when more information the residential displacements, if a road closure will be required, and the remaining details about public involvement is known.

District Action:

None

Commitments:

The district will provide sufficient public notice of construction work and traffic management plans consistent with MoDOT's public involvement policy and procedures.

### Attachments:

Based on review of the project location and description, there are no risks identified to acquiring right of way with state funds.

Socioeconomic Impact Submitted - *Mark submitted when this review is ready to be sent to district staff.*

*Last Updated: Caitlin Wiechman - 12/21/2023 8:35:03 AM*

## Threatened & Endangered Species

Status Information:

Status Changed By:

Hannah Phelps, Caleb Knerr

No Effect  Pending  
 Cleared

Clearance Date:

07/25/2022

Environmental  
Response:

Consultation Code: 03E14000-2021-SLI-0898 February 18, 2021; Code: 2022-0011211, February 22, 2022 Endangered Species Act Species List: Ozark Cavefish; Gray, Indiana, and Northern Long-eared bats, Monarch butterfly (candidate) UPDATE: Project Code: 2024-0026327, December 13, 2023 Endangered Species Act Species List: Gray Bat (Endangered), Indiana Bat (Endangered), Northern long-eared bat (endangered), Tricolored bat (proposed endangered), Ozark cavefish (threatened), Monarch butterfly (candidate) Findings below are based on a review of the Mo Natural Heritage Database (NHD) (June 2023), and MO Speleological Survey (MSS) Database (February 2022) using ArcMap, and Google Earth. Ozark cavefish are found in cave streams and springs and are affected by inputs to groundwater. This project is not within known recharge area for this species and the closest record for this species is 3 miles east of the project area (PFAFF Cave, GRN129). There will be no impacts to caves from this project. This project will have no effect on Ozark cavefish. Gray bats are cave obligate species which congregate in maternity or bachelor colonies in the summer utilizing dome cave and mine habitat, and during winter hibernation in vertical or pit-type caves and mines, utilizing mainly stream corridors for foraging spring through fall. A review of the MSS shows no caves in the project area. The project will not impact any known caves. Review of the MDC Heritage Database (updated June 2023) and MSS Cave Database (updated February 2022) show no records for bats near the project location (gray bats >4.5 miles to the south at McElhane Cave, GRN334). There are several caves 3 miles away from the project area, but there are no bat records associated with these caves. There will be no impacts to foraging habitat. This project will have no effect on gray bats. Indiana and NLEB hibernate in caves during winter and roost in forested habitat in summer where they use trees with suitable characteristics (cracks, crevices, peeling bark) for roosting. The listed bat species use forested riparian corridors for foraging and travel, and they occasionally use bridges for roosting. Review of the MDC Heritage Database (updated June 2023) and MSS Cave Database (February 2022) show no records for bats near the project location (northern long eared at > 10.5 miles to the east at Sequiota Cave, GRN001). There are several caves 3 miles of the project area, but there are no bat records associated with these caves. This project will require tree clearing. However, there will be no impacts to caves. Based on the project limits attached to the RES, all clearing is < 100' from roadway. This project will fall under programmatic informal consultation for Indiana and northern long-eared bats with winter tree clearing of suitable roost trees (pending field visit). UPDATE per NLAA concurrence letter: This project may affect but is not likely to adversely affect the Indiana bat and northern long eared bat. Tri-colored bats were proposed for listing as endangered in Sep 2022. They mainly roost in foliage of live and dead trees in the spring, summer, and fall, and hibernate in caves and other subterranean habitats during the winter. These bats can occasionally be found roosting on bridges and in culverts. Given the extreme losses from white-nose syndrome and impacts of wind industry related mortality, loss of roosting, foraging, and commuting habitat between summer and winter, resource removal can have a large impact depending on timing, location, and extent of removal. The nearest tricolored bat record is 6.6 air miles away. There will be no impacts to caves. This project will require tree clearing. Based on the project limits attached to the RES, all clearing is < 100' from roadway. This project will not jeopardize tricolored bats. Update: Field check on 6-22-2022 showed bat trees in the project area (see KMZ). PA informal consultation completed on 7/11/2022 and 14-day clearance given on 7/25/2022. Bat trees will need to be removed in the winter month. JSP confirmed on 7/27/2022.

Environmental Action: None

District Action: None

Commitments: Remove trees during the winter per JSP.

Attachments:

✘PRE-PRE-  
[Official\\_Species\\_List\\_8S0836B.pdf](#)

✘PRE-  
[Official\\_Species\\_List\\_8S0836B\\_update.pdf](#)

✘PRE-  
[JSP\\_Tree\\_Clearing\\_Restriction\\_Dates1.doc](#)

✘PRE-NLAA Concurrence  
Verification  
[Letter\\_8S0836B.pdf](#)

✘PRE-Bat Trees.kmz

Based on review of the project location and description, there are no risks identified to acquiring right of way with state funds.

Threatened & Endangered Species Submitted - Mark submitted when this review is ready to be sent to district staff.

Last Updated: Hannah Phelps - 12/13/2023 2:26:06 PM

## › Migratory Birds

Status Information: Status Changed By: Hannah Phelps, Caleb Knerr  N/A  Pending  Cleared Clearance Date:

Environmental Response: According to a 12/13/2023 review of TMS bridge data layer on ArcGIS, there are no structures within the project limits that could have nesting migratory birds. This project will have no impact on nesting migratory birds.

Environmental Action: None

District Action: None

Commitments:

### Attachments:

Migratory Birds Submitted - *Mark submitted when this review is ready to be sent to district staff.*  
*Last Updated: Hannah Phelps - 12/13/2023 2:05:26 PM*

## › Hazardous Waste Impact

Status Information: Status Changed By: Ethan Musick  N/A  Pending  Cleared Clearance Date:

Environmental Response: The site location was reviewed utilizing the MDNR Interactive E-Start Map. The map contains information about the following types of sites: Superfund sites, Federal Facilities sites, Resource Conservation and Recovery Act Corrective Action sites, Brownfields/Voluntary Cleanup Program sites, Brownfield Assessments, and Petroleum and Hazardous Substance Storage Tank Facilities. No such sites were found within the project area. The potential to encounter wastes from sites unknown to MoDOT should always be a consideration. Any previously unknown sites that are found during project construction will be handled in accordance with Federal and State Laws and Regulations.

Environmental Action: None

District Action: If a hazardous waste site is encountered during the project, contact Ethan Musick, Hazardous Waste Specialist at (573) 508-6907.

Commitments:

### Attachments:

Based on review of the project location and description, there are no risks identified to acquiring right of way with state funds.  
Checked by: Ethan Musick on 12/21/2023 3:51:16 PM

Hazardous Waste Impact Submitted - *Mark submitted when this review is ready to be sent to district staff.*  
*Last Updated: Ethan Musick - 12/21/2023 3:51:16 PM*

## Wetland Impact (Section 404/401)

Status Information:	Status Changed By: Hannah Phelps, Caleb Knerr	<input checked="" type="radio"/> N/A <input type="radio"/> Pending <input type="radio"/> Cleared	Clearance Date:
Environmental Response:	On 2/19/2021 and 2/22/2022 and 12/13/2023, MoDOT Environmental staff reviewed ArcGIS USFWS NWI maps; Google Earth aerial imagery and Streetview; and USGS 24K topographic maps (Brookline Quadrangle). According to a review of these resources, the roadway improvement project does not cross any mapped blue-line intermittent stream. There is one ephemeral drainage (not mapped blue line stream) that does not exhibit any characteristics of a jurisdictional stream according to a desktop review. There are some mapped NWI scrub shrub wetlands (PSS1C) near the north end of the project 86' outside of the project limits (SE quadrant of I-44/MM interchange). They are visible on Google Earth aerial imagery but are not adjacent to the roadway or project limits. According to information provided by district, they plan to widen the existing roadway to 5 lanes; however, these improvements will not encroach on the wetland areas. Based on this information, there will be no wetland or stream impacts from this project. No 404-permit required.		
Environmental Action:	None		
District Action:	None		
Commitments:			
Wetland Permit Information:	404 Permit Number	Permit Submitted	Permit Received
	Permit Expiration	Compliance Certification Sent	Compliance Certification Received

### Attachments:

Wetland Impact Submitted - *Mark submitted when this review is ready to be sent to district staff.*

*Last Updated: Hannah Phelps - 12/13/2023 2:31:01 PM*

## Noise Impact

Status Information:	Status Changed By: Matt Burcham	<input type="radio"/> N/A <input type="radio"/> Pending <input checked="" type="radio"/> Cleared	Clearance Date: 12/27/2023
Environmental Response:	UPDATE: Noise study report completed. Because of the addition of interior through lanes, this project qualifies as a Type I Project and therefore requires a noise analysis for potential abatement measures. All areas of the project that included areas considered "Noise Sensitive" by the FHWA Noise Abatement Criteria Table were considered for noise abatement. The study area was relatively small, so the entire project was analyzed as a single Noise-Sensitive Area (NSA). The NSA had receivers impacted by noise and were considered for noise abatement measures. However, noise abatement measures were not considered feasible due to all impacted properties having direct driveway access to Route MM. UPDATE: noise study consultant reports preliminary indications that no noise wall would be feasible or reasonable along this part of the corridor. A noise study report is in progress. INITIAL: This project's improvements of adding capacity, two lanes in each direction, do meet the criteria of a Type I project, which will require a noise analysis. Given the rural nature and scattered noise sensitive receptors in the corridor, there should be few impacts and very little likelihood noise walls would be required.		
Environmental Action:	Assist with hiring an on-call consultant to conduct a Noise study.		
District Action:	Assist as needed.		
Commitments:	Since there are residences in the construction area, the typical construction noise commitment related to normal working hours and equipment muffler compliance should be made.		

### Attachments:

Based on review of the project location and description, there are no risks identified to acquiring right of way with state funds.

Checked by: Ethan Musick on 12/27/2023 8:03:54 AM

Noise Impact Submitted - *Mark submitted when this review is ready to be sent to district staff.*

*Last Updated: Matthew Burcham - 12/27/2023 12:15:32 PM*



## Cultural Resources Impact (Section 106/Historic 4f)

Status Information:

Pending  Cleared  ROW Cleared

Status Changed By:  
Laura Reed

Clearance Date:

A Date Cleared:

Environmental Action: Update 12/28/2023: Project is no longer cleared because of the additional of ROW and easements. Update 3/22/2023: The architectural portion of the survey has received a SHPO concurrence letter dated 3/20/2023. That along with the archaeological portion that was previously cleared on 9/28/2022, this project now has concurrence. Update 11/7/2022: The cultural resources survey has been completed. The archaeological portion was submitted to the SHPO and received a concurrence letter dated 9/28/2022. The architectural portion will be submitted soon. The project is not clear, but that status will be updated once the architectural portion has been submitted and the SHPO response received. Based on the information provided, this project will require a Section 106 submittal. Landowner permission will be needed for a survey to be scheduled. There is one previously recorded archaeological site within the corridor at the Route 360 intersection.

District Action:

Commitments:

Attachments:

✘PRE-J8P3144 J8S0836  
J8S3238 Eastern Shawnee  
No Adverse Effect.pdf

✘PRE-Delaware Tribe of  
Indians Lenape No Impact -  
Pass and Defer J8I3191  
J8I3044 J8S0836-  
J8S0836B.pdf

✘PRE-Section 106 tribal  
notification MoDOT Job  
SU0054, Greene County,  
Route ZZ.pdf

Adverse Effect or Conditional No Adverse Effect

Based on review of the project location and description, there are no risks identified to acquiring right of way with state funds.

Based on the review of the project location and description noted above, there are no identified historic 4(f) resources affected that would preclude the setting of an A-date.

Checked by:  on  de minimis  Approved on:

Cultural Resources Impact Submitted - *Mark submitted when this review is ready to be sent to district staff.*

Last Updated: Laura Reed - 12/28/2023 1:14:53 PM

## Public Land Impact (Section 4f/6f)

Status Information: Status Changed By: Caitie Wiechman  N/A  Pending  Cleared Clearance Date:

Environmental Response: According to Google Earth imagery and ArcMap GIS Public land layers, there are no Section 4(f) or Section 6(f) resources located in the immediate vicinity of the project area. The project will not result in a use to any Section 4(f) properties and no conversion of any Section 6(f) lands.

Environmental Action: None

District Action: None

Commitments: None

### Attachments:

Based on review of the project location and description, there are no risks identified to acquiring right of way with state funds.

Based on the review of the project location and description noted above, there are no identified 4(f) or 6(f) resources affected that would preclude the setting of an A-date.

Checked by: Caitie Wiechman on 12/21/2023

Public Land Impact Submitted - *Mark submitted when this review is ready to be sent to district staff.*

*Last Updated: Caitlin Wiechman - 12/21/2023 8:34:10 AM*

## Other

Status Information:  N/A  Pending  Cleared Clearance Date:

Environmental Response: The project is within 4 miles of Springfield Branson Regional Airport an existing public use facility. There are no additional resource impacts associated with this project.

District Action: <https://oeaaa.faa.gov/oeaaa/external/gisTools/gisAction.jsp?action=showNoNoticeRequiredToolForm>. After entering improvement information into the FAA tool, filing information will be determined with one of two outcomes: (1) the improvement will need to be filed with the FAA, or (2) the improvement does not meet the FAA's filing requirement and no further action is required. Ensure documentation is uploaded to e-Projects. none

Commitments:

### Attachments:

Other Screening Submitted - *Mark submitted when this review is ready to be sent to district staff.*

*Last Updated: Brittany Rogers - 12/7/2023 9:22:03 AM*

## All Commitments

**Endangered Species:** Remove trees during the winter per JSP.

**FEMABuyout:** None

**Farmland Impact:** None

**Floodplain:** None

**Noise Impact:** Since there are residences in the construction area, the typical construction noise commitment related to normal working hours and equipment muffler compliance should be made.

**Public Land Impact:** None

**Socioeconomic Impact:** The district will provide sufficient public notice of construction work and traffic management plans consistent with MoDOT's public involvement policy and procedures.

## NEPA Classification

NEPA Right-Of-Way  
Permission: Pending

as determined or  
approved by:

NEPA Approval/Proceed  
to A-date Request:

Re-evaluation Date:

Final Review Complete:

NEPA Classification: CE2

This project qualifies for  
the programmatic  
categorical exclusion  
under Item#:

All Environmental Issues  
Cleared:

Commitments and/or  
Comments to District:

CE2 expected. JRF to 44 is a CE2 and JRF to ZZ is separate CE2. Mark Sowers will be the NEPA author for the CE2. A Programmatic Categorical Exclusion (PCE) NEPA classification is anticipated for this proposed project. The NEPA approval date will be given once Cultural Resources section is cleared.

Attach NEPA File(s):

No file chosen

**Attachments:**

*Attachments will be saved when you click  
the save button*

*Last Submitted:* Unsubmitted

This RES has been completed, only administrators may edit this document now, they will contact you if any information changes.

Date Completed: 10/24/2023

Completed By: Brittany Rogers

## Request for Environmental Services Form#:2024-09-00254

Alternative Project Delivery Method (such as Design/Build)

### Project Information

Stage: Preliminary Plans Previous RES(s): 2022-04-00904  
Job Number (w/o 'J'): 8S0836E District: Southwest County: GREENE  
TIP Number: Rte/Street: RT MM  
Letting Date: PS&E Due Date:  
Location: Scoping for roadway improvements from Rte. 360 to County Road 160 in Republic.  
TMS Project Description - Scoping for roadway improvements from Rte. 360 to County Road 160 in Republic.  
termini (no stations):

These users will receive a notification when Environmental Services completes the current stage, the person who created this form as well as the person who submits it will also receive notification.

Project Manager: Bud Sherman - 417-895-7690

TP Designer: None selected

District Contact: Jonathan Galvez - 417-829-8019

District Contact: None selected

Contact: None selected

Date Desired: 10/26/2023

Submit Date: 09/26/2023

Desired A-Date: 10/01/2022

Created By: Jonathan Galvez - (9/26/2023 7:51:54 AM) -  
417-829-8019

Submitted By: Jonathan Galvez - (9/26/2023 12:00:00 AM)  
- 417-829-8019

#### Program Year:

Preliminary Engineering: 2023

Right of Way: 2024

Construction: 2025

Has the district documented that each location of the project has: 1. Independent utility, 2. Logical termini, and 3. Does not restrict consideration of alternatives for other reasonably foreseeable transportation improvements?:  Yes  No

Changes to project since last RES submittal? If yes, explain:

Yes, Previous RES for J8S0836 (entire Rte. MM corridor). This request is for the E project alone. District Contact has been updated. R/W acreage is approximate & easement acreages are currently unknown but likely required. South project limit have been shifted to the north side of Haile St. to line up with 8S0836D.

Design/Build  Alternate Technical Concepts

Cumulative ROW and Easements of all locations (acres): .211

## Bicycle / Pedestrian Consideration

Pedestrian facilities considered: Yes

Bicycle facilities considered: Yes

### Any Public Involvement planned or completed:

Presented in public meeting on February 28, 2022 along with J8S0836B, J8S0836C, & J8S0836D. Public comments have been received and responses are recorded.

### Project Attachments:

**\*\*NOTE: If making updates to an attachment, please use a different filename than the original.**

**\*\*The combined size of attachments in one upload must be less than 100MB**

Attachments:

✕  
J8S0836\_Noise\_Study\_Report\_Final.pdf

✕  
J8S0836E\_Plan\_Sheets\_Combined.pdf

**Required Information to be attached for each RES stage:**

- **Loc/Concp.:** Location map (county map) & topographic map or aerial photo showing project limits – pre-plan sheets or other preliminary maps showing alternatives, if available
- **Prel. Plan:** Prel. Plan sheets
- **R/W:** R/W Plan sheets
- **Final Design:** Final Plans [Location map (county map) & topographic map or aerial photo showing project limits if this is first RES submittal]

## Locations for this Request

### Location Information

Location Name:	Previous Location:	8518 -
Describe RES project improvements in full detail:	Widening of Rte. MM between FR 160 and just north of MO 360 (James River Freeway) in Republic. Project to include intersection improvements at Sawyer Rd. & MO 360 and sidewalk to extend north to Carnahan St. Related to & separated from prior J8S0836 project covering the entire MM corridor.	
<input type="checkbox"/> Project breakout from previous or larger project?	<i>If checked explain:</i>	
Stage:	Preliminary Plans	County: GREENE
TMS Project Description - termini (no stations):	Scoping for roadway improvements from Rte. 360 to County Road 160 in Republic.	

### Acres - From all sources (e.g. donated from public or private entities):

<b>Additional R/W (acres):</b> 1	<b>Temp Easement (acres):</b> 1	<b>Permanent Easement (acres):</b> 1
ROW may be needed, but, not yet determined?	Yes	Acres of Tree Clearing: 0 acres DO NOT CLEAR TREES W/O MODOT'S PRIOR WRITTEN APPROVAL.
Is ANY Federally-owned land impacted by the project?	<input type="radio"/> Yes <input checked="" type="radio"/> No	

### Land Disturbance / Stormwater:

Will project involve 1 acre of land disturbance:	<input checked="" type="radio"/> Yes <input type="radio"/> No	Define project type (see definitions)	<input type="radio"/> New Development <input checked="" type="radio"/> Redevelopment
--	---	---------------------------------------	--

Projects with one acre or greater land disturbance activities must comply with the Land Disturbance Permit requirements.

Unknown

below):

Maintenance

**New Development** - Projects (with land disturbance greater than or equal to 1 acre) that are constructed where there was previously no transportation facility.

**Redevelopment** - Non-maintenance work performed to or on an existing public transportation facility which provides for an increased number of thru lanes of travel unless the work can be accommodated without increasing the width of the existing pavement. Widening of an existing road that does not result in an additional thru lane does not constitute redevelopment. Widening to add shoulders does not constitute a thru lane unless the total widening is greater than or equal to 10 feet.

**Maintenance** - Projects that do not meet the criteria of redevelopment or new development.

Was coordination with local counties or cities conducted?  Yes  No

If yes, please provide a short description of the coordination:

**Number of Displacements(do not include partial takes that do not displace):**

Residential:  Yes  No

Commercial:  Yes  No

No. of People: Residences: 0

No. of Employees: Businesses: 0

**Average Daily Traffic:**

ADT Construction Year: 7,901 - 2021

ADT Design Year:

**Traffic Impacts:**

Road Closure Planned:  Yes  No

Bridge Closure Planned:  Yes  No

Days/Months Closed:

Detour > 25 mi rural (including local roads)  Yes  No

Detour > 5 mi urban (including local roads, census defined urban)  Yes  No

Detour Info (including use of local roads):

**National Flood Insurance Program (NFIP) and Hydraulic Design Data:**

Project is in a FEMA-identified zone "subject to 100-year flooding": *If so, what zone?:*

Project is in a FEMA-defined "floodway"

Project involves land purchased through FEMA Hazard Mitigation Grant Program (Flood buyout property)

*If checked, give details:*

Is highway improvement located within 4 miles of an existing airport?

Please note that the District is responsible for obtaining the necessary permits for the project. See the following [Airport Link](#)

**Known Concerns: Provide information you have about these resources that you have observed in the area.**

Parkland:

Wetland/404 Permit:

Land Disturbance / Stormwater:

Farmland:

Threatened & Endangered Species:

Migratory Birds: Are there birds nesting on the structure? Unknown,

Hazardous Waste:

Cultural Resources:

District Comments:

**Location Attachments:**

**\*\*NOTE: If making updates to an attachment, please use a different filename than the original.**  
**\*\*The combined size of attachments in one upload must be less than 100MB**

**Attachments:**

**Required Information to be attached for each RES stage:**

- **Loc/Concp.:** Location map (county map) & topographic map or aerial photo showing project limits – pre-plan sheets or other preliminary maps showing alternatives, if available
- **Prel. Plan:** Prel. Plan sheets
- **R/W:** R/W Plan sheets
- **Final Design:** Final Plans [Location map (county map) & topographic map or aerial photo showing project limits if this is first RES submittal]

## RES Environmental Screenings

**Farmland Impact**

Status Information: Status Changed By: Jo Dent Clearance Date:  N/A  Pending  Cleared

Environmental Response: Based on the attached ArcMap Urbanized Area Map, new right of way and easements needed for the project are all in the urbanized area of the city of Republic. There is no potential for conversion of farmland. Therefore, the Farmland Protection Policy Act does not apply.

Environmental Action: None

District Action: None

Commitments: None

Attachments: [✕ ArcMap - Republic - Urbanized Area.pdf](#)

Farmland Impact Submitted - Mark submitted when this review is ready to be sent to district staff.  
 Last Updated: Jo Dent - 9/28/2023 7:08:20 AM

### >Floodplain/Regulatory Floodway

Status Information: Status Changed By: Jo Dent  N/A  Pending  Cleared Clearance Date:

Environmental Response: Based on the attached FEMA Firmette maps, there are no areas of 100-year floodplain or regulatory floodway in the project limits. Floodplain permitting is not required.

Environmental Action: None

District Action: None

Commitments: None

Attachments:

- [✕FEMA Firmette\\_3.pdf](#)
- [✕FEMA Firmette\\_2.pdf](#)
- [✕FEMA Firmette 1.pdf](#)

Floodplain/Regulatory Floodway Submitted - *Mark submitted when this review is ready to be sent to district staff.*  
Last Updated: Jo Dent - 9/28/2023 7:20:10 AM

### >Land Disturbance / Stormwater

Status Information: Status Changed By: Hannah Phelps, Caleb Knerr  N/A  Pending  Cleared Clearance Date:

Environmental Response: According to a 5/2/2022 and 10/3/2023 review of MoDOT's MS4 Urban Areas ArcGIS layer, the project is outside the TS4. (This applies regardless of land disturbance acreage).

Environmental Action: None

District Action: None

Commitments:

TS4 Area:  Yes  No  Partial Is the project in a TMDL watershed?  Yes  No

Attachments:

Land Disturbance / Stormwater Submitted - *Mark submitted when this review is ready to be sent to district staff.*  
Last Updated: Hannah Phelps - 10/4/2023 2:34:14 PM

### >FEMA/SEMA Buyout

Status Information: Status Changed By: Brandon Baumhoer  N/A  Pending  Cleared Clearance Date:

Environmental Response: Based on a review of ArcMap GIS FEMA buyout layers, no buyout sites were identified anywhere the project limits. The project will not result in development on any FEMA buyout sites.

Environmental Action: None

District Action: None

Commitments: None

Attachments:

FEMA/SEMA Buyout Submitted - *Mark submitted when this review is ready to be sent to district staff.*  
Last Updated: Jo Dent - 9/28/2023 7:40:17 AM



## Socioeconomic Impact

Status Information:

Status Changed By:

Caitie Wiechman

Comment Date:

N/A  Pending  Cleared

Environmental  
Response:

UPDATE (5/2/2022): The Southwest District posted project information at the following website, which lists the project timeline for the Route MM/ZZ Corridor, project displays and maps, and an overview of each individual section of the project. <https://www.modot.org/greene-county-route-mmzz-corridor> On February 28, 2022, the district held a come-and-go style public meeting. This meeting was held from 6-8 p.m. at the Republic Community Center, Rooms A and B (711 E. Miller Rd., Republic, MO). The public meeting did not conduct a formal presentation, but visitors were encouraged to engage with MoDOT and ask questions related to the project. The project location map, alternatives, and the proposed improvements were displayed during this public meeting. A two-week public comment period was offered from February 28 – March 11, 2021. Individuals wishing to provide comments were able to submit them by email, an online form from the public meeting website, or mailed to the Southwest District Office. MoDOT received a total of six email comments about the project. Primary concerns from the public include current and potential flooding impacts, roadway congestion due to road closures, access for emergency personnel during construction, limited community access due to road closures, and concerns over the complexity of the proposed roundabout at the new Route MM and Roue ZZ intersection. Overall, the majority of the concerns related to or were about the railroad crossings at Farm Road 93 and Farm Road 170. MoDOT responded that both railroad crossings are still under evaluation to determine the potential traffic impacts associated with closing the road. Currently, it is a possibility that the railroad crossing at Farm Road 93 will be able to remain open due to the built-in safety features, like J-turns and signalization. However, the railroad crossing at Farm Road 170 will require a closure because of safety concerns regarding possible encroachment or backup onto Route MM. To address the congestion concerns, MoDOT has determined that the new roundabout will be the best option to help prevent congestion, especially during weekday mornings and afternoons when school traffic is at peak volumes. INITIAL SCREENING: The project does not require commercial or residential displacements, but does require temporary easements that are subject to the Uniform Relocation Assistance and Real Property Acquisition Policies Act of 1970, as amended. This project was presented in public meeting on February 28, 2022 along with J8S0836B, J8S0836C, & J8S0836D. Public comments have been received and responses are recorded. No information has been provided about road closures and detours. More information will be needed to fully assess the impacts of the project.

Environmental Action: NOne

District Action: None

Commitments: The district will continue to provide public notice as the project progresses to keep them informed of road closures, delays, etc.

### Attachments:

Based on review of the project location and description, there are no risks identified to acquiring right of way with state funds.

Socioeconomic Impact Submitted - *Mark submitted when this review is ready to be sent to district staff.*

*Last Updated: Caitlin Wiechman - 10/19/2023 4:23:51 PM*

## Threatened & Endangered Species

Status Information:

Status Changed By:

Hannah Phelps, Caleb Knerr

No Effect  Pending

Cleared

Clearance Date:

Environmental

Response:

Consultation Code: 03E14000-2021-SLI-0903 February 19, 2021 Consultation Code: 2023-0133340, September 26, 2023  
Endangered Species Act Species List: Ozark Cavefish; Gray, Indiana, Tricolored, and Northern Long-eared bats; Monarch Butterfly Findings below are based on a review of the Mo Natural Heritage Database (NHD) (June 2023), and MO Speleological Survey (MSS) Database (February 2022) using ArcMap, and Google Earth. Ozark cavefish are found in cave streams and springs, and are affected by inputs to groundwater. This project is not within known recharge area for this species and the closest record for this species is 3 miles east of the project area (PFAFF Cave, GRN129). There will be no impacts to caves from this project. This project will have no effect on Ozark cavefish. Gray bats are cave obligate species which congregate in maternity or bachelor colonies in the summer utilizing dome cave and mine habitat, and during winter hibernation in vertical or pit-type caves and mines, utilizing mainly stream corridors for foraging spring through fall. A review of the MSS shows no caves in the project area. The project will not impact any known caves. A review of the MO Heritage Database shows no records in or near the project location. The project will have no effect on Gray Bats. Indiana and NLEB hibernate in caves during winter and roost in forested habitat in summer where they use trees with suitable characteristics (cracks, crevices, peeling bark) for roosting. The listed bat species use forested riparian corridors for foraging and travel, and they occasionally use bridges for roosting. This project will not impact any known caves. Based on the project description provided in the RES, there will be no tree removal. There will be no bridge work required for this project. A review of the NHD does not show any listed bats within the project area. A review of the MSS shows no caves in the project area. The project will not impact any known caves. The project will have no effect on Indiana or NLEB. Tri-colored bats were proposed for listing as endangered in Sep 2022. They mainly roost in foliage of live and dead trees in the spring, summer, and fall, and hibernate in caves and other subterranean habitats during the winter. These bats can occasionally be found roosting on bridges and in culverts. Given the extreme losses from white-nose syndrome and impacts of wind industry related mortality, loss of roosting, foraging, and commuting habitat between summer and winter, resource removal can have a large impact depending on timing, location, and extent of removal. This project will not impact any known caves. Based on the project description provided in the RES, there will be no tree removal. There will be no bridge work required for this project. A review of the NHD does not show any listed bats within the project area. A review of the MSS shows no caves in the project area. The project will not impact any known caves. The project will not jeopardize tricolored bats. Monarch butterflies are candidate species for USFWS federal listing. Healthy and abundant milkweed is needed for oviposition and larval consumption. Sufficient quality and quantity of nectar from flowers is needed for adult feeding throughout the breeding and migration seasons. Habitat that provides a specific roosting microclimate for overwintering: protection from the elements (e.g., rain, wind, hail, excessive radiation) and moderate temperatures that are warm enough to prevent freezing yet cool enough to prevent lipid depletion. Nectar and clean water sources located near roosting sites. Nectar and milkweed resources along the migration route when butterflies are present; the size and spatial arrangement of habitat patches are generally thought to be important aspects, but currently unknown. Roosting sites may also be important for monarchs along their fall migration route. Per guidance received from USFWS on 1/5/2021, conferencing for monarchs is not required unless MoDOT is receiving funding from the USFWS. Since that is not the case with this project, MoDOT has not made an effects determination for this species.

Environmental Action: None

District Action: None

Commitments:

Attachments:

✘

[Official\\_Species\\_List\\_8S0836E\\_Update2.pdf](#)

✘PRE-

[Official\\_Species\\_List\\_8S0836E.pdf](#)

Based on review of the project location and description, there are no risks identified to acquiring right of way with state funds.

Threatened & Endangered Species Submitted - *Mark submitted when this review is ready to be sent to district staff.*

*Last Updated: Hannah Phelps - 10/4/2023 2:45:42 PM*

## ›Migratory Birds

Status Information: Status Changed By: Hannah Phelps, Caleb Knerr  N/A  Pending  Cleared Clearance Date:

Environmental Response: According to a 5/2/2022 and 10/3/2023 review of TMS bridge data layer on ArcGIS, there are structures within the project limits that could have nesting migratory birds. There will likely be no impacts to these structures based on review of KMZ attached. There will be no impact to migratory birds from the project.

Environmental Action: None

District Action: None

Commitments:

### Attachments:

Migratory Birds Submitted - *Mark submitted when this review is ready to be sent to district staff.*

*Last Updated:* Hannah Phelps - 10/4/2023 2:39:08 PM

## ›Hazardous Waste Impact

Status Information: Status Changed By: Ethan Musick  N/A  Pending  Cleared Clearance Date: 10/06/2023

Environmental Response: The site location was reviewed utilizing the MDNR Interactive E-Start Map. The map contains information about the following types of sites: Superfund sites, Federal Facilities sites, Resource Conservation and Recovery Act Corrective Action sites, Brownfields/Voluntary Cleanup Program sites, Brownfield Assessments, and Petroleum and Hazardous Substance Storage Tank Facilities. No such sites were found within the project area. The potential to encounter wastes from sites unknown to MoDOT should always be a consideration. Any previously unknown sites that are found during project construction will be handled in accordance with Federal and State Laws and Regulations.

Environmental Action: None

District Action: If a hazardous waste site is encountered during the project, contact Ethan Musick, Hazardous Waste Specialist at (573) 508-6907.

Commitments:

### Attachments:

Based on review of the project location and description, there are no risks identified to acquiring right of way with state funds.

Hazardous Waste Impact Submitted - *Mark submitted when this review is ready to be sent to district staff.*

*Last Updated:* Ethan Musick - 10/6/2023 10:48:49 AM

## Wetland Impact (Section 404/401)

Status Information:	Status Changed By: Hannah Phelps, Caleb Knerr	<input checked="" type="radio"/> N/A <input type="radio"/> Pending <input type="radio"/> Cleared	Clearance Date:
Environmental Response:	On 5/2/2022 and 10/3/2023, MoDOT Environmental staff reviewed ArcGIS USFWS NWI maps; Google Earth aerial imagery and Streetview; and USGS 24K topographic maps (Brookline Quadrangle). According to a review of these resources, the roadway improvement project crosses one mapped blue-line intermittent stream. There are several ephemeral drainages (not mapped blue line stream) that do not exhibit characteristics of a jurisdictional stream according to a desktop review. There are no mapped NWI wetlands within the project limits. According to information provided by district, widening existing roadway will not impact these features. According to this information, no 404 permit required for this project.		
Environmental Action:	None		
District Action:	None		
Commitments:			
Wetland Permit Information:	404 Permit Number	Permit Submitted	Permit Received
	Permit Expiration	Compliance Certification Sent	Compliance Certification Received

### Attachments:

- Wetland Impact Submitted - *Mark submitted when this review is ready to be sent to district staff.*  
*Last Updated: Hannah Phelps - 10/4/2023 2:41:28 PM*

## Noise Impact

Status Information:	Status Changed By: Matt Burcham	<input type="radio"/> N/A <input checked="" type="radio"/> Pending <input type="radio"/> Cleared	Clearance Date:
Environmental Response:	UPDATE: noise study consultant preliminary indications that no noise wall would be feasible or reasonable along this part of the corridor. INITIAL: This project's improvements do meet the criteria of a Type I project, therefore a noise analysis is required.		
Environmental Action:	Review noise analysis report.		
District Action:	Assist as necessary.		
Commitments:			

### Attachments:

- Based on review of the project location and description, there are no risks identified to acquiring right of way with state funds.

- Noise Impact Submitted - *Mark submitted when this review is ready to be sent to district staff.*  
*Last Updated: Ethan Musick - 10/6/2023 10:49:27 AM*

## Cultural Resources Impact (Section 106/Historic 4f)

Status Information:

Pending  Cleared  ROW Cleared

Status Changed By:  
Laura Reed

Clearance Date:  
03/22/2023

A Date Cleared:

Environmental Action: Update 3/22/2023: The architectural portion of the survey has received a SHPO concurrence letter dated 3/20/2023. That along with the archaeological portion that was previously cleared on 9/28/2022, this project now has concurrence. Update 11/7/2022: The cultural resources survey has been completed. The archaeological portion was submitted to the SHPO and received a concurrence letter dated 9/28/2022. The architectural portion will be submitted soon. The project is not clear, but that status will be updated once the architectural portion has been submitted and the SHPO response received. Based on the information provided, this project will require a Section 106 submittal. There is one previously recorded archaeological site within the corridor at the Route 360 intersection.

District Action:

Commitments:

Attachments:

✘PRE-PRE-J8P3144  
J8S0836 J8S3238 Eastern  
Shawnee No Adverse  
Effect.pdf

✘PRE-Delaware Tribe of  
Indians Lenape No Impact -  
Pass and Defer J8I3191  
J8I3044 J8S0836-  
J8S0836B.pdf

✘PRE-Section 106 tribal  
notification MoDOT Job  
SU0054, Greene County,  
Route ZZ.pdf

Adverse Effect or Conditional No Adverse Effect

Based on review of the project location and description, there are no risks identified to acquiring right of way with state funds.

Based on the review of the project location and description noted above, there are no identified historic 4(f) resources affected that would preclude the setting of an A-date.

Checked by:  on  de minimis  Approved on:

Cultural Resources Impact Submitted - *Mark submitted when this review is ready to be sent to district staff.*

*Last Updated: Laura Reed - 10/2/2023 6:38:09 AM*

## Public Land Impact (Section 4f/6f)

Status Information: Status Changed By:  N/A  Pending  Cleared Clearance Date:

Environmental Response: UPDATE (03/01/2021): The only construction around Sanford Park will be the removal of the railroad crossing south at this intersection of Route MM/FR 168 and Route M. There should not be any impacts to the property itself for the construction/demolition. No other improvements are planned at this location. In addition, Sanford Park is no longer considered recreational property. Malissa Julien has provided the acquisition deed and plan sheet for when the park area was originally acquired; also the survey and transfer deed when the park was sold to Kum and Go (the reason it says correction deed is due to a fine tuning in the legal description). Lastly, is an assessor's aerial that shows the location in general of Sanford Park. The location of the former Sanford Roadside park is south of the area in question. See the attached files below. INITIAL SCREENING: According to Google Earth imagery and ArcMap GIS public land layers, Sanford Park is located outside of the provided KMZ limits, approximately 0.35-mile southwest of the project area along Route 413. However, at this time, there are no new right of way or easements required for this project and the project will not restrict access to this resource. The project will not result in a use to any Section 4(f) properties and no conversion of any Section 6(f) lands.

Environmental Action: None

District Action: None

Commitments: None

### Attachments:

[✕PRE-PRE-06 Acquisition deed.pdf](#)

[✕PRE-PRE-07 plan sheet as acq.pdf](#)

[✕PRE-PRE-10 recorded survey of Sanford Park.pdf](#)

[✕PRE-PRE-13 assessor's aerial Sanford and K G.pdf](#)

[✕PRE-PRE-Corr SWD MHTC to KandG.pdf](#)

Based on review of the project location and description, there are no risks identified to acquiring right of way with state funds.

Based on the review of the project location and description noted above, there are no identified 4(f) or 6(f) resources affected that would preclude the setting of an A-date.

Checked by:  on

Public Land Impact Submitted - Mark submitted when this review is ready to be sent to district staff.

Last Updated: Caitlin Wiechman - 10/19/2023 4:23:11 PM

## Other

Status Information:  N/A  Pending  Cleared Clearance Date:

Environmental Response: The project is within 4 miles of Springfield Branson Regional Airport, and existing public use facility.

District Action: <https://oeaaa.faa.gov/oeaaa/external/gisTools/gisAction.jsp?action=showNoNoticeRequiredToolForm>. After entering improvement information into the FAA tool, filing information will be determined with one of two outcomes: (1) the improvement will need to be filed with the FAA, or (2) the improvement does not meet the FAA's filing requirement and no further action is required. Ensure documentation is uploaded to e-Projects.

Commitments:

### Attachments:

Other Screening Submitted - Mark submitted when this review is ready to be sent to district staff.

Last Updated: Brittany Rogers - 9/26/2023 11:02:26 AM

➤ All Commitments

**FEMABuyout:** None

**Farmland Impact:** None

**Floodplain:** None

**Public Land Impact:** None

**Socioeconomic Impact:** The district will continue to provide public notice as the project progresses to keep them informed of road closures, delays, etc.

➤ NEPA Classification

NEPA Right-Of-Way Permission: Pending as determined or approved by:

NEPA Approval/Proceed to A-date Request: Re-evaluation Date:  
Final Review Complete:

NEPA Classification: CE2

This project qualifies for the programmatic categorical exclusion under Item#: All Environmental Issues Cleared:

Commitments and/or Comments to District: CE2 is needed and will cover the C and D jobs.

Attach NEPA File(s):  No file chosen

**Attachments:**

*Attachments will be saved when you click the save button*

*Last Submitted: 10/24/2023 by [Brittany Rogers](#)*