



APPENDIX C

Cost Estimate Backup

USDOT RAISE Grant Program

APRIL 14, 2022

CITY OF REPUBLIC

Highway MM: Corridor of Opportunity

Total Scope and Budget for Highway MM Corridor													
Project Information				Project Estimates (\$1,000s)									
Job Number	Description	ROW Year	CN Year	PE/ROW Inc.	CE	ROW Acquisition	ROW Inflation	ROW Total	Construction and Utilities	Construction Inflation	Construction Total	Project Total	
8S0836B	Add lanes on Rte. MM (Brookline Avenue) from I-44 to Rte. 360 (James River Freeway) in Republic.	2023	2024	\$ 1,021	\$ 557	\$ 1,136	\$ -	\$ 1,136	\$ 7,334	\$ 220	\$ 7,554	\$	10,268
*8S0836D	Relocate Rte. MM (Brookline Avenue), add railroad grade separation and sidewalks from County Road 160 to Rte. 60 in Republic.	2024	2025	\$ 2,823	\$ 1,829	\$ 2,859	\$ 86	\$ 2,945	\$ 24,665	\$ 1,502	\$ 26,167	\$	33,764
8S0836A [8S0836E]	Add lanes, add sidewalk at various locations, and widen bridge on Rte. MM (Brookline Avenue) from Rte. 360 to County Road 160 in Republic.	2024	2025	\$ 1,611	\$ 1,014	\$ 919	\$ 28	\$ 947	\$ 13,923	\$ 848	\$ 14,771	\$	18,343
RAISE Application Segments Total				\$ 4,598	\$ 3,300	\$ 3,987	\$ -	\$ 3,987	\$ 44,570	\$ 1,876	\$ 46,446	\$	58,331
Corridor Total				\$ 5,455	\$ 3,400	\$ 4,914	\$ 113	\$ 5,027	\$ 45,922	\$ 2,570	\$ 48,492	\$	62,375

*Total programmed in the Draft 2023-2027 STIP is more than the Approved 2022-2026 STIP. This additional scope on the Farm Road 160 to US 60 segment is outside of the RAISE Grant ask. Excludes the EV Charging Station - additional \$239



Transportation Improvement Program - FY 2022-2025

Project Detail by Section and Project Number with Map

E) Cost Shares Section

TIP # RP1703-22A3 **ROUTE MM IMPROVEMENTS - I-44 TO ROUTE 360**

Route Rte. MM

From I-44

To Route 360

Location City of Republic

Federal Agency FHWA

Project Sponsor MoDOT

Federal Funding Category STBG

MoDOT Funding Category Major Projects and Emerging Needs

Bike/Ped Plan? **EJ?** Yes

STIP # 8S0836B

Federal ID # S602093

No Map
Available

Project Description

Roadway improvements on Brookline Avenue from I-44 to Route 360 (James River Freeway) in Republic.

Fund Code	Source	Phase	FY2022	FY2023	FY2024	FY2025	Total
FHWA (STBG)	Federal	ENG	\$252,735	\$252,735	\$308,716	\$0	\$814,186
LOCAL	Local	ENG	\$184,562	\$184,562	\$181,413	\$0	\$550,537
MoDOT	State	ENG	\$63,184	\$63,184	\$77,179	\$0	\$203,547
FHWA (STBG)	Federal	ROW	\$0	\$552,390	\$0	\$0	\$552,390
LOCAL	Local	ROW	\$0	\$445,790	\$0	\$0	\$445,790
MoDOT	State	ROW	\$0	\$138,098	\$0	\$0	\$138,098
FHWA (STBG)	Federal	CON	\$0	\$0	\$3,565,424	\$0	\$3,565,424
FHWA (STBG-U)	Federal	CON	\$0	\$0	\$2,296,000	\$0	\$2,296,000
LOCAL	Local	CON	\$0	\$0	\$581,370	\$0	\$581,370
MoDOT	State	CON	\$0	\$0	\$891,356	\$0	\$891,356
Totals			\$500,481	\$1,636,759	\$7,901,458	\$0	\$10,038,698

Notes

Non-Federal Funding Source: State Transportation Revenues, City of Republic

FYI: Federal Funding Category upon Anticipated Advanced Construction (AC)
Conversion - Discretionary/STBG; \$6 million from MoDOT Cost Share Program
for Economic Development

Prior Cost	\$10,000
Future Cost	\$0
Total Cost	\$10,048,698

PLUS Report

Date: 08/02/2021

Time: 04:17:06 PM

Project: WIDENING - 5 LANE SECTION W/C&G, W/INFLATION	Job Number: 020-3289 CONCEPT-3-1	Bid Date: 02/02/2021	State: MO
Location: ROUTE MM FROM ROUTE I-44 SOUTH TO JAMES RIVER FREEWAY			

Project Settings

Primary County: GREENE	Urban / Rural: RURAL ROUTE
Addl Counties:	Project Type: GRADING, DRAINAGE & PAVING
District: Southwest	Work Type: REHABILITATOIN
Latitude: 37° 11' 20"	Traffic: Heavy Traffic (over 1700 DAT)
Longitude: 93° 25' 24"	Estimator: jlcox@olsson.com
Log Mile: Beg: 0.073	Constr Eng: 0.00%
End: 1.698	Priced Date: 2/2/2021
Station: Beg: 48+67.41	Create Date: 8/2/2021
End: 133+02.46	Fed Project No:
Project Length: 1.2730 miles	Mobe Percent: 6.00%
Route: MM	Survey Percent: 1.50%

Project Sections

0 Project Funding	\$0.00	0.00%
1 ROADWAY ITEMS-020-3289	\$2,063,153.41	33.56%
2 ALT A ASPHALT PAVEMENT-020-3289	\$1,580,400.00	25.71%
3 ALT B CONCRETE PAVEMENT-020-3289	\$0.00	0.00%
10 MGS GUARDRAIL ITEMS-020-3289	\$0.00	0.00%
30 SIGNAL ITEMS-020-3289	\$300,000.00	4.88%
40 SIGNING ITEMS-020-3289	\$30,000.00	0.49%
50 DRAINAGE-020-3289	\$1,100,000.00	17.89%
51 TCP-020-3289	\$150,000.00	2.44%
52 TEC-020-3289	\$130,000.00	2.11%
53 CONTINGENCY-020-3289	\$794,099.39	12.92%
Total	\$6,147,652.80	100.0%

STIP Information

Construction Cost	\$6,147,652.80	62.26%
PE (12.00% of construction cost)	\$685,961.61	6.95%
CE (8.00% of construction cost)	\$457,307.74	4.63%
R/W	\$1,136,278.14	11.51%
290,470 SF R/W @ \$2/SF, 20,502 SF TEMP. ESMT.@ \$0.25/SF, 1,282 SF PERM. ESMT. @ \$1/SF, 2 HOUSE TAKINGS @ \$250,000 EA., 3% INFLATION @ 1.5 YEARS		
R/W Incidentals	\$260,000.00	2.63%
\$10,000 PER PARCEL		
Utilities	\$614,765.28	6.23%
10% OF CONSTRUCTION ESTIMATE		
Incentive	\$571,731.71	5.79%
3% INFLATION @ 3 YEARS		
Total	\$9,873,697.28	100.0%

Major Categories

BRIDGE	\$0.00	0.00%
GRADE/DRAIN	\$1,329,925.00	21.63%
MISC.	\$2,742,451.40	44.61%
PAVEMENT/BASE	\$2,075,276.40	33.76%
Total	\$6,147,652.80	100.0%

PLUS Report

Project: WIDENING - 5 LANE SECTION W/C&G, W/INFLATION	Job Number: 020-3289 CONCEPT-3- 1	Bid Date: 02/02/2021	State: MO
Location: ROUTE MM FROM ROUTE I-44 SOUTH TO JAMES RIVER FREEWAY			

Section: ROADWAY ITEMS-020-3289

10	2013000	CLEARING AND GRUBBING	2.000	ACRE	Unit Price	Total
Bid Price			--		\$3,500.00	\$7,000.00
20	2022010	REMOVAL OF IMPROVEMENTS	1.000	L.S.	Unit Price	Total
Bid Price			--		\$15,000.00	\$15,000.00
30	2031000	CLASS A EXCAVATION	12,096.000	C.Y.	Unit Price	Total
Bid Price			--		\$17.50	\$211,680.00
40	2036000	COMPACTING EMBANKMENT	14,596.000	C.Y.	Unit Price	Total
Bid Price			--		\$1.25	\$18,245.00
50	3040506	TYPE 5 AGGREGATE FOR BASE (6 IN. THICK)	45,052.000	S.Y.	Unit Price	Total
Bid Price			--		\$7.80	\$351,405.60
60	3049910	MISC. {PERMANENT AGGREGATE EDGE TREATMENT}	60.000	TON	Unit Price	Total
Bid Price			--		\$60.00	\$3,600.00
70	4030103	ASPHALTIC CONCRETE MIXTURE PG 70-22 (SP125C MIX)	2,083.000	TON	Unit Price	Total
Bid Price			--		\$65.00	\$135,395.00
80	4071005	TACK COAT	1,946.000	GAL	Unit Price	Total
Bid Price			--		\$2.30	\$4,475.80
90	6079903	MISC. {FENCING}	6,100.000	L.F.	Unit Price	Total
Bid Price			--		\$15.00	\$91,500.00
100	6081000	CONCRETE MEDIAN	279.000	S.Y.	Unit Price	Total
Bid Price			--		\$55.00	\$15,345.00
110	6085008	"PAVED APPROACH, 8 IN."	2,698.000	S.Y.	Unit Price	Total
Bid Price			--		\$80.00	\$215,840.00
120	6091052	CURB AND GUTTER TYPE B	14,493.000	L.F.	Unit Price	Total
Bid Price			--		\$30.00	\$434,790.00
130	6181000	MOBILIZATION	1.000	L.S.	Unit Price	Total

PLUS Report

Project: WIDENING - 5 LANE SECTION W/C&G, W/INFLATION	Job Number: 020-3289 CONCEPT-3- 1	Bid Date: 02/02/2021	State: MO
Location: ROUTE MM FROM ROUTE I-44 SOUTH TO JAMES RIVER FREEWAY			

Bid Price	--	\$343,124.81	\$343,124.81
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140	6181020	ADDITIONAL MOBILIZATION FOR SEEDING	4.000	EACH	Unit Price	Total
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Bid Price	--	\$600.00	\$2,400.00
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150	6209901	MISC. {PAVEMENT MARKING}	1.000	L.S.	Unit Price	Total
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Bid Price	--	\$115,000.00	\$115,000.00
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160	6224010	MODIFIED COLDMILLING (DEPTH TRANSITIONS)	1,934.000	S.Y.	Unit Price	Total
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Bid Price	--	\$6.50	\$12,571.00
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170	6274000	CONTRACTOR FURNISHED SURVEYING AND STAKING	1.000	L.S.	Unit Price	Total
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Bid Price	--	\$85,781.20	\$85,781.20
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Category:	ROADWAY ITEMS-020-3289	Total
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Bid Price	\$2,063,153.41
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Section: ALT A ASPHALT PAVEMENT-020-3289

180	4039905	MISC. {ALT A ASPHALT PAVEMENT (11.5 IN. SP125C)}	35,120.000	S.Y.	Unit Price	Total
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Bid Price	--	\$45.00	\$1,580,400.00
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Category:	ALT A ASPHALT PAVEMENT-020-3289	Total
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Bid Price	\$1,580,400.00
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Section: ALT B CONCRETE PAVEMENT-020-3289

190	4039905 {1}	MISC. {ALT B CONCRETE PAVEMENT (9 IN. NON-REINFORCED, 15 FT. JOINTS)}	35,120.000	S.Y.	Unit Price	Total
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Bid Price	--	\$0.00	\$0.00
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Category:	ALT B CONCRETE PAVEMENT-020-3289	Total
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Bid Price	\$0.00
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Section: SIGNAL ITEMS-020-3289

200	9029901	MISC. {SIGNALS}	1.000	L.S.	Unit Price	Total
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Bid Price	--	\$300,000.00	\$300,000.00
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Category:	SIGNAL ITEMS-020-3289	Total
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Bid Price	\$300,000.00
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Section: SIGNING ITEMS-020-3289

Project: WIDENING - 5 LANE SECTION W/C&G, W/INFLATION	Job Number: 020-3289 CONCEPT-3- 1	Bid Date: 02/02/2021	State: MO
Location: ROUTE MM FROM ROUTE I-44 SOUTH TO JAMES RIVER FREEWAY			

210	9039901	MISC. {SIGNING}	1.000	L.S.	Unit Price	Total
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Bid Price -- \$30,000.00 \$30,000.00

Category: SIGNING ITEMS-020-3289 **Total**

Bid Price \$30,000.00

Section: DRAINAGE-020-3289

220	7309901	MISC. {DRAINAGE STRUCTURES}	1.000	L.S.	Unit Price	Total
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Bid Price -- \$1,100,000.00 \$1,100,000.00

Category: DRAINAGE-020-3289 **Total**

Bid Price \$1,100,000.00

Section: TCP-020-3289

230	6169901	MISC. {TEMPORARY TRAFFIC CONTROL}	1.000	L.S.	Unit Price	Total
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Bid Price -- \$150,000.00 \$150,000.00

Category: TCP-020-3289 **Total**

Bid Price \$150,000.00

Section: TEC-020-3289

240	8069901	MISC. {TEMPORARY EROSION CONTROL}	1.000	L.S.	Unit Price	Total
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Bid Price -- \$130,000.00 \$130,000.00

Category: TEC-020-3289 **Total**

Bid Price \$130,000.00

Section: CONTINGENCY-020-3289

250	2019901	MISC. {15% CONTINGENCY}	1.000	L.S.	Unit Price	Total
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Bid Price -- \$794,099.39 \$794,099.39

Category: CONTINGENCY-020-3289 **Total**

Bid Price \$794,099.39

Overall Totals						Total
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Bid Price \$6,147,652.80

Assumptions**"J8S0836A", Greene County, Route MM**

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

Roadway and Bridge Costs

<u>Grading/Drain.</u>	<u>Base Surface</u>	<u>Bridge Est.</u>	<u>Misc.</u>	<u>Contract Est.</u>
3272	2192	3771	3440	12675

Roadway: This project will widen Rte. MM between FR 160 and just north of Rte. 360 (James River Freeway) in Republic. MM will be widened to accommodate 5 lanes, new curb & gutter, sidewalk, and drainage structures. Bid item prices based on historical data from Greene County, Southwest District, and statewide. "J8S0836A" is not an official project number and is being used for identification purposes only at this time.

Bridge: Bridge Costs reflected in estimate from Olsson dated 10/7/2021 to widen bridge A5907.

Utility Costs

<u>Utilities</u>
994

Utility Costs reflected in estimate obtained from Southwest Utilities Department dated 12/15/2021.

Right of Way Costs

<u>R/W Acquisition</u>	<u>R/W Incidental</u>
919	90

Right of Way Costs reflected from Right of Way estimate dated 7/27/2021.

Preliminary Engineering Costs

<u>Prelim. Eng</u>
1521

Based upon 12% of total construction costs.

Construction Engineering Costs

<u>Constr. Engr.</u>
1014

Based upon 8% of total construction costs.

Other Costs

<u>Other</u>
0

No other costs associated with this project.

Safety Split

<u>Safety Split</u>
0

No safety split associated with this project.

Bike/Pedestrian Improvements

<u>Bike/Ped Improve</u>
431

Pedestrian improvements to include new sidewalk along both sides of the corridor from FR 160 to James River Freeway.

 Orren Ricketts

Estimator

 2/7/2022

Date

 Kevin Fox

Transportation Project Designer

 2/7/2022

Date

 Bud Sherman

Project Manager

 2/7/2022

Date

Bid Report

Project: Corridor Improvements	Job Number: J8S0836A_Conceptua 1	Bid Date: 11/23/2021	State: MO
Location: Rte. MM between FR 160 and just north of JRF in Republic			

Project Settings

Primary County:	GREENE	Urban / Rural:	URBAN ROUTE
Addl Counties:		Project Type:	GRADING, DRAINAGE, BRIDGE & PAVING
District:	Southwest	Work Type:	NEW CONSTRUCTION
Latitude:	37° 09' 24"	Traffic:	Heavy Traffic (over 1700 DAT)
Longitude:	93° 25' 03"	Estimator:	orren.ricketts@modot.mo.gov
Log Mile:	Beg:	Constr Eng:	0.00%
	End:	Priced Date:	
Station:	Beg:	Create Date:	12/2/2021
	End:	Fed Project No:	
Project Length:	0.8970 miles	Mobe Percent:	6.00%
Route:	MM	Survey Percent:	1.50%

Project Sections

1 Roadway	\$7,905,657.88	62.37%
10 MGS Guardrail Items	\$48,000.00	0.38%
20 Lighting	\$200,000.00	1.58%
30 Signals	\$650,000.00	5.13%
40 Signing	\$100,000.00	0.79%
70 Bridge or Retaining Wall	\$3,770,910.00	29.75%
Total	\$12,674,567.88	100.0%

STIP Information

Construction Cost	\$12,674,567.88	83.33%
PE (12.00% of construction cost)	\$1,520,948.15	10.00%
CE (8.00% of construction cost)	\$1,013,965.43	6.67%
R/W	\$0.00	0.00%
R/W Incidentals	\$0.00	0.00%
Utilities	\$0.00	0.00%
Incentive	\$0.00	0.00%
Total	\$15,209,481.46	100.0%

Major Categories

BRIDGE	\$3,913,167.50	30.87%
GRADE/DRAIN	\$3,271,672.00	25.81%
MISC.	\$3,297,642.38	26.02%
PAVEMENT/BASE	\$2,192,086.00	17.30%
Total	\$12,674,567.88	100.0%

Bid Report

Project: Corridor Improvements	Job Number: J8S0836A_Conceptua 1	Bid Date: 11/23/2021	State: MO
Location: Rte. MM between FR 160 and just north of JRF in Republic			

Section: Roadway

Sort	Pay Item	Description	Count	Quantity	Unit	Unit Price	Extension
0	2013000	CLEARING AND GRUBBING	--	1.000	ACRE	3,000.00	\$3,000.00
0	2022010	REMOVAL OF IMPROVEMENTS	--	1.000	L.S.	50,000.00	\$50,000.00
0	2035000	UNCLASSIFIED EXCAVATION	--	57,138.000	C.Y.	12.00	\$685,656.00
0	2035500	EMBANKMENT IN PLACE	--	59,138.000	C.Y.	18.00	\$1,064,484.00
0	2036000	COMPACTING EMBANKMENT	--	49,685.000	C.Y.	5.00	\$248,425.00
0	2037075	COMPACTING IN CUT	--	14.100	STA.	1,500.00	\$21,150.00
0	2063000	CLASS 3 EXCAVATION	--	7,899.000	C.Y.	18.00	\$142,182.00
0	2063300	CLASS 4 EXCAVATION	--	523.000	C.Y.	30.00	\$15,690.00
0	2063400	CLASS 4 EXCAVATION IN ROCK	--	10.000	C.Y.	75.00	\$750.00
0	2071000	LINEAR GRADING CLASS 1	--	1.500	STA.	1,200.00	\$1,800.00
0	2079903	MISC. {LINEAR GRADING FOR ADA FACILITIES}	--	9,180.000	L.F.	12.00	\$110,160.00
0	2101006A	SUBGRADE COMPACTION (6-INCH DEPTH)	--	13.000	100FT	270.00	\$3,510.00
0	2121000A	SUBGRADING AND SHOULDERING CLASS 1	--	9.000	100FT	2,500.00	\$22,500.00
0	3040143	TYPE 1 AGGREGATE FOR BASE (4 IN. THICK)	--	11,032.000	S.Y.	9.25	\$102,046.00
0	3040504	TYPE 5 AGGREGATE FOR BASE (4 IN. THICK)	--	33,666.000	S.Y.	10.00	\$336,660.00
0	3105002	GRAVEL (A) OR CRUSHED STONE (B)	--	200.000	TON	40.00	\$8,000.00
0	4010151	TYPE A3 SHOULDER	--	990.000	S.Y.	65.00	\$64,350.00
0	4019905	MISC. {OPTIONAL PAVEMENT}	--	28,998.500	S.Y.	55.00	\$1,594,917.50
0	5041000	CONCRETE APPROACH PAVEMENT	--	688.900	S.Y.	125.00	\$86,112.50
0	6081010	CONCRETE CURB RAMP	--	370.800	S.Y.	100.00	\$37,080.00
0	6081012	TRUNCATED DOMES	--	180.000	S.F.	30.00	\$5,400.00
0	6083008	8 IN. CONCRETE MEDIAN STRIP	--	178.000	S.Y.	80.00	\$14,240.00
0	6086004	"CONCRETE SIDEWALK, 4 IN."	--	10,661.100	S.Y.	45.00	\$479,749.50
0	6091041	CONCRETE GUTTER TYPE A	--	79.000	L.F.	55.00	\$4,345.00
0	6091051	CURB AND GUTTER TYPE A	--	11,030.000	L.F.	35.00	\$386,050.00
0	6091060	PAVED DITCH	--	214.000	S.Y.	70.00	\$14,980.00
0	6096020	FURNISHING TYPE 2 ROCK DITCH LINER	--	269.000	C.Y.	35.00	\$9,415.00
0	6096042	PLACING TYPE 2 ROCK DITCH LINER	--	269.000	C.Y.	30.00	\$8,070.00
0	6097000	ROCK LINING	--	32.000	C.Y.	100.00	\$3,200.00
0	6123000A	TRUCK OR TRAILER MOUNTED ATTENUATOR (TMA)	--	1.000	EACH	2,000.00	\$2,000.00
0	6143013	"MANHOLE FRAME AND COVER, TYPE 3"	--	41.000	EACH	300.00	\$12,300.00
0	6161005	CONSTRUCTION SIGNS	--	800.000	S.F.	7.50	\$6,000.00
0	6161025	CHANNELIZER (TRIM LINE)	--	175.000	EACH	18.00	\$3,150.00

Bid Report

Project: Corridor Improvements		Job Number: J8S0836A_Conceptua	Bid Date: 11/23/2021	State: MO
Location: Rte. MM between FR 160 and just north of JRF in Republic				
0	6161030	TYPE III MOVEABLE BARRICADE	-- 28.000 EACH	155.00 \$4,340.00
0	6161040	FLASHING ARROW PANEL	-- 1.000 EACH	1,000.00 \$1,000.00
0	6161099	"CHANGEABLE MESSAGE SIGN WITH COMMUNICATION INTERFACE, CONTRACTOR FURNISHED, CONTRACTOR RETAINED"	-- 7.000 EACH	3,500.00 \$24,500.00
0	6162002	TEMPORARY LONG-TERM RUMBLE STRIPS	-- 10.000 EACH	900.00 \$9,000.00
0	6169902	MISC. {ADA MOVEABLE BARRICADE}	-- 15.000 EACH	200.00 \$3,000.00
0	6181000	MOBILIZATION	-- 1.000 L.S.	707,417.74 \$707,417.74
0	6181020	ADDITIONAL MOBILIZATION FOR SEEDING	-- 4.000 EACH	600.00 \$2,400.00
0	6191000	PAVEMENT EDGE TREATMENT	-- 10,592.000 L.F.	3.00 \$31,776.00
0	6200015	"PREFORMED THERMOPLASTIC PAVEMENT MARKING, 24 IN. WHITE"	-- 1,720.000 L.F.	21.00 \$36,120.00
0	6200021	"PREFORMED THERMOPLASTIC PAVEMENT MARKING, LEFT/RIGHT ARROW"	-- 24.000 EACH	255.00 \$6,120.00
0	6200030	"PREFORMED THERMOPLASTIC PAVEMENT MARKING, WORD (ONLY)"	-- 8.000 EACH	350.00 \$2,800.00
0	6200042	"PREFORMED THERMOPLASTIC PAVEMENT MARKING, 12 IN WHITE, YIELD LINE TRIANGLES"	-- 40.000 EACH	30.00 \$1,200.00
0	6206000C	"4 IN. WHITE STANDARD WATERBORNE PAVEMENT MARKING PAINT, TYPE P BEADS"	-- 17,620.000 L.F.	0.12 \$2,114.40
0	6206001C	"4 IN. YELLOW STANDARD WATERBORNE PAVEMENT MARKING PAINT, TYPE P BEADS"	-- 25,300.000 L.F.	0.12 \$3,036.00
0	6206124A	"24 IN. WHITE STANDARD WATERBORNE PAVEMENT MARKING PAINT, TYPE P BEADS"	-- 800.000 L.F.	6.00 \$4,800.00
0	6274000	CONTRACTOR FURNISHED SURVEYING AND STAKING	-- 1.000 L.S.	176,854.44 \$176,854.44
0	7034041	CLASS B-1 CONCRETE (CULVERTS)	-- 196.000 C.Y.	665.00 \$130,340.00
0	7061030	REINFORCING STEEL (CULVERTS)	-- 6,810.000 LBS	1.75 \$11,917.50
0	7250318A	18 IN. PIPE GROUP B	-- 3,157.000 L.F.	55.00 \$173,635.00
0	7250324A	24 IN. PIPE GROUP B	-- 5,262.000 L.F.	70.00 \$368,340.00
0	7250330A	30 IN. PIPE GROUP B	-- 2,105.000 L.F.	85.00 \$178,925.00
0	7311042	PRECAST CONCRETE DROP INLET 4 FT X 2 FT	-- 246.000 L.F.	780.00 \$191,880.00
0	7320024A	24 IN. OR ALLOWED SUBSTITUTE GROUP B FLARED END SECTION	-- 8.000 EACH	700.00 \$5,600.00
0	7320030A	30 IN. OR ALLOWED SUBSTITUTE GROUP B FLARED END SECTION	-- 4.000 EACH	1,000.00 \$4,000.00
0	8032000A	KENTUCKY BLUEGRASS SODDING	-- 5,000.000 S.Y.	30.00 \$150,000.00
0	8051000A	SEEDING - COOL SEASON MIXTURES	-- 2.900 ACRE	3,200.00 \$9,280.00
0	8052000A	SEEDING - WARM SEASON MIXTURES	-- 2.900 ACRE	4,200.00 \$12,180.00
0	8061001	SEDIMENT BASIN EXCAVATION	-- 617.000 C.Y.	2.50 \$1,542.50
0	8061002	SEDIMENT BASIN ROCK	-- 617.000 C.Y.	18.00 \$11,106.00
0	8061003	SEDIMENT TRAP EXCAVATION	-- 56.600 C.Y.	28.00 \$1,584.80
0	8061004	SEDIMENT TRAP ROCK	-- 56.600 C.Y.	135.00 \$7,641.00
0	8061005	ROCK DITCH CHECK	-- 2,500.000 L.F.	13.25 \$33,125.00

Bid Report

Date: 02/07/2022

Time: 02:56:14 PM

Project: Corridor Improvements	Job Number: J8S0836A_Conceptua	Bid Date: 11/23/2021	State: MO
Location: Rte. MM between FR 160 and just north of JRF in Republic			

0	8061007A	CURB INLET CHECK	--	38.000	EACH	140.00	\$5,320.00
0	8061016	SEDIMENT REMOVAL	--	690.000	C.Y.	21.00	\$14,490.00
0	8061017	TEMPORARY SEEDING AND MULCHING	--	2.000	ACRE	1,200.00	\$2,400.00
0	8061019	SILT FENCE	--	9,500.000	L.F.	3.00	\$28,500.00
Category: Roadway							\$7,905,657.88

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	3,400.00	\$13,600.00
0	6063014	TYPE A CRASHWORTHY END TERMINAL (MASH)	--	4.000	EACH	3,000.00	\$12,000.00
Category: MGS Guardrail Items							\$48,000.00

Section: Lighting

Sort	Pay Item	Description	Count	Quantity	Unit	Unit Price	Extension
0	9019901	MISC. {LIGHTING}	--	1.000	L.S.	200,000.00	\$200,000.00
Category: Lighting							\$200,000.00

Section: Signals

Sort	Pay Item	Description	Count	Quantity	Unit	Unit Price	Extension
0	9029901	MISC. {SIGNALS}	--	1.000	L.S.	650,000.00	\$650,000.00
Category: Signals							\$650,000.00

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
Category: Signing							\$100,000.00

Section: Bridge or Retaining Wall

Sort	Pay Item	Description	Count	Quantity	Unit	Unit Price	Extension
0	7019901	MISC. {NEW BRIDGE}	--	1.000	L.S.	3,770,910.00	\$3,770,910.00
Category: Bridge or Retaining Wall							\$3,770,910.00

Total: \$12,674,567.88

REPORT PARAMETERS	
Project	J8S0836A_Conceptual - Corridor Improvements
Comparison	Bid Price



2022-2026 Highway and Bridge Construction Schedule

Transportation Planning

P.O. Box 270
Jefferson City, MO 65102

Construction contingency applied to construction cost in the year the project is awarded.

Three percent project growth factor compounded annually is applied to right-of-way and construction costs in program years 2, 3, 4, and 5.

No inflation is applied to the Funding From Other Sources (FFOS) or Payments.

Engineering includes PE costs, CE costs and R/W incidentals.

Construction contingency applied to construction cost in the year the project is awarded. Three percent project growth factor compounded annually is applied to right-of-way and construction costs in program years 2, 3, 4, and 5. No inflation is applied to the Funding From Other Sources (FFOS) or Payments. Engineering includes PE costs, CE costs and R/W incidentals.							STATE FISCAL YEAR PROJECT BUDGETING					
							Prior Prog.	7/2021- 6/2022	7/2022- 6/2023	7/2023- 6/2024	7/2024- 6/2025	7/2025- 6/2026
County: Greene Route: MM Job No.: 8S0836D Length: 0.00 MPO: N Fund Cat: Flexible & Other Sec Cat: System Expansion TIP #: Awd Date: 2025 Let With: AC-State: 24,170 State: 6,042 Local: 0 Anticipated Fed Cat: STBG Future Cost: 0 Estimate Total: 30,212	Engineering: R/W: Construction: FFOS: Payments:	0 0 0 0 0 0	600 0 0 0 0 0	600 0 0 0 0 0	311 3,970 0 0 0 0	817 0 23,914 0 0 0	0 0 0 0 0 0					
County: Greene Route: RT MM Job No.: 8S3239 Length: 0.25 MPO: Y Fund Cat: Flexible & Other Sec Cat: Regional TIP #: RP2201 Awd Date: 2023 Let With: AC-State: 432 State: 108 Local: 0 Anticipated Fed Cat: STBG Future Cost: 0 Estimate Total: 540	Engineering: R/W: Construction: FFOS: Payments:	0 0 0 0 0 0	50 0 0 0 0 0	70 0 420 0 0 0	0 0 0 0 0 0	0 0 0 0 0 0	0 0 0 0 0 0					
County: Greene Route: CST NORTON RD Job No.: 8S3179 Length: 0.19 MPO: Y Fund Cat: Taking Care Of System Sec Cat: N- Ada Trans TIP #: EN2103-20A Awd Date: Spring 22 Let With: AC-State: 222 State: 55 Local: 0 Anticipated Fed Cat: STBG Future Cost: 0 Estimate Total: 316	Engineering: R/W: Construction: FFOS: Payments:	24 15 0 0 0 0	60 0 217 0 0 0	0 0 0 0 0 0	0 0 0 0 0 0	0 0 0 0 0 0	0 0 0 0 0 0					
County: Greene Route: CST NORTON RD Job No.: 8S3218 Length: 0.41 MPO: Y Fund Cat: Taking Care Of System Sec Cat: Thin Lift Overlay TIP #: SP2102 Awd Date: Fall 21 Let With: 8S3219, 8S3217 Fed: 0 State: 159 Local: 0 Anticipated Fed Cat: State Future Cost: 0 Estimate Total: 167	Engineering: R/W: Construction: FFOS: Payments:	8 0 0 0 0 0	16 0 143 0 0 0	0 0 0 0 0 0	0 0 0 0 0 0	0 0 0 0 0 0	0 0 0 0 0 0					
County: Greene Route: RT P Job No.: 8S3199 Length: 1.17 MPO: Y Fund Cat: Taking Care Of System Sec Cat: Thin Lift Overlay TIP #: RP2203 Awd Date: Fall 22 Let With: AC-State: 192 State: 48 Local: 0 Anticipated Fed Cat: STBG Future Cost: 0 Estimate Total: 240	Engineering: R/W: Construction: FFOS: Payments:	0 0 0 0 0 0	8 0 0 0 0 0	22 0 210 0 0 0	0 0 0 0 0 0	0 0 0 0 0 0	0 0 0 0 0 0					

* Subject to the approval of the Transportation Improvement Program by the governing Metropolitan Planning Organization.

Jun-9-2021

Section 4 - 13

District Southwest

TMA

Dollars in Thousands

Bid Report

Project: Corridor Improvements	Job Number: J8S0836D_Conceptual_Alt1	Bid Date: 11/23/2021	State: MO
Location: Rte. MM in Republic			

Project Settings

Primary County:	GREENE	Urban / Rural:	URBAN ROUTE
Addl Counties:		Project Type:	GRADING, DRAINAGE, BRIDGE & PAVING
District:	Southwest	Work Type:	NEW CONSTRUCTION
Latitude:	37° 09' 24"	Traffic:	Heavy Traffic (over 1700 DAT)
Longitude:	93° 25' 03"	Estimator:	orren.ricketts@modot.mo.gov
Log Mile:	Beg:	Constr Eng:	0.00%
	End:	Priced Date:	
Station:	Beg:	Create Date:	11/23/2021
	End:	Fed Project No:	
Project Length:	0.8970 miles	Mobe Percent:	6.00%
Route:	ZZ	Survey Percent:	1.50%

Project Sections

1 Roadway	\$16,961,337.67	73.53%
10 MGS Guardrail Items	\$52,000.00	0.23%
20 Lighting	\$200,000.00	0.87%
30 Signals	\$300,000.00	1.30%
40 Signing	\$100,000.00	0.43%
70 Bridge or Retaining Wall	\$5,453,744.45	23.64%
Total	\$23,067,082.12	100.0%

STIP Information

Construction Cost	\$23,067,082.12	83.33%
PE (12.00% of construction cost)	\$2,768,049.85	10.00%
CE (8.00% of construction cost)	\$1,845,366.57	6.67%
R/W	\$0.00	0.00%
R/W Incidentals	\$0.00	0.00%
Utilities	\$0.00	0.00%
Incentive	\$0.00	0.00%

Major Categories

BRIDGE	\$5,703,836.95	24.73%
GRADE/DRAIN	\$10,775,610.50	46.71%
MISC.	\$3,644,053.42	15.80%
PAVEMENT/BASE	\$2,943,581.25	12.76%
Total	\$23,067,082.12	100.0%

Total	\$27,680,498.54	100.0%
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Bid Report

Project: Corridor Improvements	Job Number: J8S0836D_Conceptual_Alt1	Bid Date: 11/23/2021	State: MO
Location: Rte. MM in Republic			

Section: Roadway

Sort	Pay Item	Description	Count	Quantity	Unit	Unit Price	Extension
0	2013000	CLEARING AND GRUBBING	--	6.000	ACRE	3,000.00	\$18,000.00
0	2022010	REMOVAL OF IMPROVEMENTS	--	1.000	L.S.	50,000.00	\$50,000.00
0	2035000	UNCLASSIFIED EXCAVATION	--	31,834.000	C.Y.	11.00	\$350,174.00
0	2035500	EMBANKMENT IN PLACE	--	465,742.000	C.Y.	19.00	\$8,849,098.00
0	2036000	COMPACTING EMBANKMENT	--	27,682.000	C.Y.	2.25	\$62,284.50
0	2037075	COMPACTING IN CUT	--	19.200	STA.	1,500.00	\$28,800.00
0	2063000	CLASS 3 EXCAVATION	--	9,378.000	C.Y.	18.00	\$168,804.00
0	2063300	CLASS 4 EXCAVATION	--	752.000	C.Y.	30.00	\$22,560.00
0	2063400	CLASS 4 EXCAVATION IN ROCK	--	12.000	C.Y.	75.00	\$900.00
0	2071000	LINEAR GRADING CLASS 1	--	1.500	STA.	1,200.00	\$1,800.00
0	2079903	MISC. {LINEAR GRADING FOR ADA FACILITIES}	--	10,420.000	L.F.	12.00	\$125,040.00
0	2101006A	SUBGRADE COMPACTION (6-INCH DEPTH)	--	13.000	100FT	270.00	\$3,510.00
0	2121000A	SUBGRADING AND SHOULDERING CLASS 1	--	9.000	100FT	2,500.00	\$22,500.00
0	3040143	TYPE 1 AGGREGATE FOR BASE (4 IN. THICK)	--	8,533.000	S.Y.	9.25	\$78,930.25
0	3040504	TYPE 5 AGGREGATE FOR BASE (4 IN. THICK)	--	44,766.000	S.Y.	10.00	\$447,660.00
0	3105002	GRAVEL (A) OR CRUSHED STONE (B)	--	200.000	TON	40.00	\$8,000.00
0	4010151	TYPE A3 SHOULDER	--	1,103.200	S.Y.	65.00	\$71,708.00
0	4019905	MISC. {OPTIONAL PAVEMENT}	--	40,703.100	S.Y.	55.00	\$2,238,670.50
0	5041000	CONCRETE APPROACH PAVEMENT	--	788.900	S.Y.	125.00	\$98,612.50
0	6081010	CONCRETE CURB RAMP	--	432.600	S.Y.	100.00	\$43,260.00
0	6081012	TRUNCATED DOMES	--	390.000	S.F.	30.00	\$11,700.00
0	6083008	8 IN. CONCRETE MEDIAN STRIP	--	1,053.100	S.Y.	80.00	\$84,248.00
0	6086004	"CONCRETE SIDEWALK, 4 IN."	--	8,172.300	S.Y.	45.00	\$367,753.50
0	6091041	CONCRETE GUTTER TYPE A	--	30.000	L.F.	55.00	\$1,650.00
0	6091051	CURB AND GUTTER TYPE A	--	8,880.000	L.F.	35.00	\$310,800.00
0	6091060	PAVED DITCH	--	72.000	S.Y.	70.00	\$5,040.00
0	6096020	FURNISHING TYPE 2 ROCK DITCH LINER	--	308.000	C.Y.	35.00	\$10,780.00
0	6096042	PLACING TYPE 2 ROCK DITCH LINER	--	308.000	C.Y.	30.00	\$9,240.00
0	6097000	ROCK LINING	--	18.000	C.Y.	100.00	\$1,800.00
0	6113020	FURNISHING TYPE 2 ROCK BLANKET	--	1,094.000	C.Y.	30.00	\$32,820.00
0	6113040	PLACING TYPE 2 ROCK BLANKET	--	1,094.000	C.Y.	15.00	\$16,410.00
0	6123000A	TRUCK OR TRAILER MOUNTED ATTENUATOR (TMA)	--	1.000	EACH	2,000.00	\$2,000.00
0	6143013	"MANHOLE FRAME AND COVER, TYPE 3"	--	38.000	EACH	300.00	\$11,400.00

Bid Report

Project: Corridor Improvements			Job Number: J8S0836D_Conceptual_Alt1		Bid Date: 11/23/2021		State: MO
Location: Rte. MM in Republic							
0	6161005	CONSTRUCTION SIGNS	--	800.000 S.F.	7.50	\$6,000.00	
0	6161025	CHANNELIZER (TRIM LINE)	--	175.000 EACH	18.00	\$3,150.00	
0	6161030	TYPE III MOVEABLE BARRICADE	--	28.000 EACH	155.00	\$4,340.00	
0	6161040	FLASHING ARROW PANEL	--	1.000 EACH	1,000.00	\$1,000.00	
0	6161099	"CHANGEABLE MESSAGE SIGN WITH COMMUNICATION INTERFACE, CONTRACTOR FURNISHED, CONTRACTOR RETAINED"	--	5.000 EACH	3,500.00	\$17,500.00	
0	6162002	TEMPORARY LONG-TERM RUMBLE STRIPS	--	10.000 EACH	900.00	\$9,000.00	
0	6169902	MISC. {ADA MOVEABLE BARRICADE}	--	18.000 EACH	200.00	\$3,600.00	
0	6181000	MOBILIZATION	--	1.000 L.S.	1,287,465.05	\$1,287,465.05	
0	6181020	ADDITIONAL MOBILIZATION FOR SEEDING	--	4.000 EACH	600.00	\$2,400.00	
0	6191000	PAVEMENT EDGE TREATMENT	--	9,472.000 L.F.	3.00	\$28,416.00	
0	6200015	"PREFORMED THERMOPLASTIC PAVEMENT MARKING, 24 IN. WHITE"	--	100.000 L.F.	21.00	\$2,100.00	
0	6200021	"PREFORMED THERMOPLASTIC PAVEMENT MARKING, LEFT/RIGHT ARROW"	--	2.000 EACH	255.00	\$510.00	
0	6200030	"PREFORMED THERMOPLASTIC PAVEMENT MARKING, WORD (ONLY)"	--	2.000 EACH	350.00	\$700.00	
0	6200042	"PREFORMED THERMOPLASTIC PAVEMENT MARKING, 12 IN WHITE, YIELD LINE TRIANGLES"	--	38.000 EACH	30.00	\$1,140.00	
0	6200051	"PREFORMED THERMOPLASTIC PAVEMENT MARKING, COMBINATION STR/LT/RT FISH HOOK ARROW"	--	2.000 EACH	600.00	\$1,200.00	
0	6206000C	"4 IN. WHITE STANDARD WATERBORNE PAVEMENT MARKING PAINT, TYPE P BEADS"	--	17,181.000 L.F.	0.12	\$2,061.72	
0	6206001C	"4 IN. YELLOW STANDARD WATERBORNE PAVEMENT MARKING PAINT, TYPE P BEADS"	--	27,792.000 L.F.	0.12	\$3,335.04	
0	6240103A	PERMANENT EROSION CONTROL GEOTEXTILE	--	500.000 S.Y.	5.00	\$2,500.00	
0	6274000	CONTRACTOR FURNISHED SURVEYING AND STAKING	--	1.000 L.S.	321,866.26	\$321,866.26	
0	7034041	CLASS B-1 CONCRETE (CULVERTS)	--	352.000 C.Y.	665.00	\$234,080.00	
0	7061030	REINFORCING STEEL (CULVERTS)	--	9,150.000 LBS	1.75	\$16,012.50	
0	7250318A	18 IN. PIPE GROUP B	--	1,670.000 L.F.	55.00	\$91,850.00	
0	7250324A	24 IN. PIPE GROUP B	--	5,925.000 L.F.	70.00	\$414,750.00	
0	7250330A	30 IN. PIPE GROUP B	--	4,250.000 L.F.	85.00	\$361,250.00	
0	7311042	PRECAST CONCRETE DROP INLET 4 FT X 2 FT	--	228.000 L.F.	780.00	\$177,840.00	
0	7320024A	24 IN. OR ALLOWED SUBSTITUTE GROUP B FLARED END SECTION	--	10.000 EACH	700.00	\$7,000.00	
0	7320030A	30 IN. OR ALLOWED SUBSTITUTE GROUP B FLARED END SECTION	--	5.000 EACH	1,000.00	\$5,000.00	
0	8032000A	KENTUCKY BLUEGRASS SODDING	--	8,000.000 S.Y.	30.00	\$240,000.00	
0	8051000A	SEEDING - COOL SEASON MIXTURES	--	4.000 ACRE	3,200.00	\$12,800.00	
0	8052000A	SEEDING - WARM SEASON MIXTURES	--	4.000 ACRE	4,200.00	\$16,800.00	
0	8061001	SEDIMENT BASIN EXCAVATION	--	1,369.900 C.Y.	2.50	\$3,424.75	

Bid Report

Project: Corridor Improvements	Job Number: J8S0836D_Conceptual_Alt1	Bid Date: 11/23/2021	State: MO
Location: Rte. MM in Republic			

0	8061002	SEDIMENT BASIN ROCK	--	1,369.900	C.Y.	18.00	\$24,658.20
0	8061003	SEDIMENT TRAP EXCAVATION	--	102.300	C.Y.	28.00	\$2,864.40
0	8061004	SEDIMENT TRAP ROCK	--	102.300	C.Y.	135.00	\$13,810.50
0	8061005	ROCK DITCH CHECK	--	2,500.000	L.F.	13.25	\$33,125.00
0	8061007A	CURB INLET CHECK	--	44.000	EACH	140.00	\$6,160.00
0	8061016	SEDIMENT REMOVAL	--	675.000	C.Y.	21.00	\$14,175.00
0	8061017	TEMPORARY SEEDING AND MULCHING	--	5.000	ACRE	1,200.00	\$6,000.00
0	8061019	SILT FENCE	--	8,500.000	L.F.	3.00	\$25,500.00
Category: Roadway							\$16,961,337.67

Section: MGS Guardrail Items

Sort	Pay Item	Description	Count	Quantity	Unit	Unit Price	Extension
0	6061060	MGS GUARDRAIL	--	1,200.000	L.F.	24.00	\$28,800.00
0	6061069	MGS BRIDGE APPROACH TRANSITION SECTION (REGULAR/NO CURB)	--	4.000	EACH	3,000.00	\$12,000.00
0	6063014	TYPE A CRASHWORTHY END TERMINAL (MASH)	--	4.000	EACH	2,800.00	\$11,200.00
Category: MGS Guardrail Items							\$52,000.00

Section: Lighting

Sort	Pay Item	Description	Count	Quantity	Unit	Unit Price	Extension
0	9019901	MISC. {LIGHTING}	--	1.000	L.S.	200,000.00	\$200,000.00
Category: Lighting							\$200,000.00

Section: Signals

Sort	Pay Item	Description	Count	Quantity	Unit	Unit Price	Extension
0	9029901	MISC. {SIGNALS}	--	1.000	L.S.	300,000.00	\$300,000.00
Category: Signals							\$300,000.00

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
Category: Signing							\$100,000.00

Section: Bridge or Retaining Wall

Sort	Pay Item	Description	Count	Quantity	Unit	Unit Price	Extension
0	7019901	MISC. {NEW BRIDGE}	--	1.000	L.S.	5,453,744.45	\$5,453,744.45
Category: Bridge or Retaining Wall							\$5,453,744.45

Bid Report

Project: Corridor Improvements

Job Number: J8S0836D_Conceptual_Alt1

Bid Date: 11/23/2021

State: MO

Location: Rte. MM in Republic

Total: \$23,067,082.12

REPORT PARAMETERS

Project	J8S0836D_Conceptual_Alt1 - Corridor Improvements
Comparison	Bid Price