



ADDENDUM NUMBER 2

Project Number 89008121

Project Title Englewood Boulevard Complete Streets Upgrade
Highway 169 to NW Waukomis Drive

ISSUE DATE: 11-9-17

Bidders are hereby notified that the Bidding and Contract Documents for the above project, for which Bids are to be received on **November 14, 2017**, are amended as follows:

Bidding Requirements

1. Delete and replace the following section(s):
 - a. Delete Document, 00412 Unit Prices and replace with the 00412 Unit Prices.

Drawings:

1. Remove and Replace Sheet 02 Construction Quantities with document included in this addendum.

NOTE: Bidders must acknowledge receipt of this Addendum by listing the number and date, where provided, on the Bid Form - Document 00410.



UNIT PRICES

Project Num 89008121 STP 3311 (402)

Project Title Englewood Boulevard Complete Streets Upgrade Highway 169 to NW Waukomis Drive

NOTE: IN THE EVENT OF DISCREPANCY, UNIT PRICE SHALL GOVERN.

Item No.	Unit	Quantity	Item Description:	Unit	Extension
KANSAS CITY MISSOURI STREET CONSTRUCTION					
Miscellaneous					
1	L.S.	1	Mobilization		
2	L.S.	1	Construction Staking		
3	Ac.	13.48	Clearing & Grubbing		
4	Ac.	6.51	Tree Removal (No Burning)		
5	C.Y.	6,740	Pavement & Curb Removal		
6	S.F.	503	Signing		
7	Ea.	9	Type 3 Moveable Barricade		
8	Ea.	1	Field Office		
Grading					
9	Ac.	19.99	Topsoil Removal, Stockpile and Distribution		
10	C.Y.	82,693	Unclassified Excavation		
11	C.Y.	71,472	Embankment		
12	S.Y.	36,897	Subgrade Stabilization (9" Flyash Treatment)		
13	S.Y.	36,897	Rock Subbase (6" MoDOT Type 5)		
14	S.Y.	36,897	Fine Grading (Subgrade)		
15	S.F.	1,261	Modular Block Retaining Wall		
Erosion Control					
16	L.F.	14000	Silt Fence		
17	Ea.	91	Inlet Protection		
18	Ea.	1	Vehicle Tracking Device		
19	S.Y.	25730	Soil Stability Blanket		
Pavement					
20	S.Y.	277	2" Mill and Overlay		
21	S.Y.	21,384	2" Asphalt Surface		
22	S.Y.	1,847	6" Asphalt Base		
23	S.Y.	3,615	7" Asphalt Base		
24	S.Y.	15,923	9" Asphalt Base		
25	S.Y.	6,964	Asphalt Extension Under Curb		
26	S.Y.	223	6" Concrete		
27	S.Y.	6,786	8" Concrete		
28	S.Y.	792	4" Concrete (Colored and Textured)		
29	S.Y.	748	8" Concrete (Colored and Textured)		
Curbs & Sidewalks					
30	L.F.	14,834	Curb & Gutter (Type CG-1)		
31	L.F.	947	Curb & Gutter (Type CG-2)		
32	L.F.	8,864	Curb (Type C-1)		
33	L.F.	264	Mountable Curb & Gutter		
34	L.F.	211	Concrete Sidewalks (4' Wide, 4" Thick)		

35	L.F.	5,111	Concrete Sidewalks (5' Wide, 4" Thick)		
36	L.F.	89	Concrete Sidewalks (6' Wide, 4" Thick)		
37	L.F.	536	Concrete Sidewalks (8' Wide, 6" Thick)		
38	L.F.	4,484	Concrete Sidewalks (10' Wide, 6" Thick)		
39	S.F.	7,641	ADA Curb Ramps (6" Thick w/ Detectable Warning)		
			Pavement Marking and Signage		
40	Ea.	123	Street Sign (Includes Post & All Attached Signs)		
41	Ea.	2	School Zone Flasher Sign		
42	L.F.	56	4" Thermoplastic Solid White Pavement Marking		
43	L.F.	19	4" Thermoplastic Solid Yellow Pavement Marking		
44	L.F.	1,255	4" Thermoplastic Double Solid Yellow Pavement Marking		
45	L.F.	74	4" Thermoplastic Double Dashed Yellow Pavement Marking		
46	L.F.	7,620	6" Thermoplastic Solid White Pavement Marking		
47	L.F.	944	6" Thermoplastic Dotted White Pavement Marking		
48	L.F.	339	8" Thermoplastic Solid White Pavement Marking		
49	L.F.	172	8" Thermoplastic Dotted White Pavement Marking		
50	L.F.	74	24" Thermoplastic Solid White Stop Bar		
51	L.F.	348	24" Thermoplastic Solid White Crosswalk Line		
52	S.Y.	274	12" Thermoplastic Yellow Diagonal Hatch (12' O.C.)		
53	Ea.	11	Thermoplastic White Turn Arrow Pavement Marking		
54	Ea.	3	Thermoplastic White "ONLY" Pavement Marking		
55	Ea.	12	Thermoplastic White Bike Lane Symbol & Arrow Pavement Marking		
56	L.F.	60	4" Epoxy Dashed White Pavement Marking		
57	L.F.	172	4" Epoxy Dotted White Pavement Marking		
58	L.F.	93	4" Epoxy Solid Yellow Pavement Marking		
59	L.F.	80	4" Epoxy Double Solid Yellow Pavement Marking		
60	L.F.	593	6" Epoxy Solid White Pavement Marking		
61	L.F.	598	6" Epoxy Dotted White Pavement Marking		
62	L.F.	269	8" Epoxy Solid White Pavement Marking		
63	L.F.	1,014	12" Epoxy Solid White Pavement Marking		
64	L.F.	110	12" Epoxy Dotted White Pavement Marking		
65	L.F.	180	24" Epoxy Solid White Stop Bar		
66	Ea.	13	Epoxy White Turn Arrow Pavement Marking		
67	Ea.	1	Epoxy White Bike Lane Symbol & Arrow Pavement Marking		
			Storm Sewers		
68	L.F.	351	15" HDPE		
69	L.F.	71	18" HDPE		
70	L.F.	560	24" HDPE		
71	L.F.	99	30" HDPE		
72	L.F.	169	36" HDPE		
73	L.F.	65	42" HDPE		
74	L.F.	2133	15" RCP		
75	L.F.	314	18" RCP		
76	L.F.	1204	24" RCP		
77	L.F.	328	30" RCP		
78	L.F.	101	36" RCP		

79	L.F.	133	4'x5' RCB		
80	L.F.	74	8'x8' RCB		
81	L.F.	178	Dual 13'x15' RCB		
82	Ea.	3	15"-18" HDPE End Section		
83	Ea.	3	24"-36" HDPE End Section		
84	Ea.	1	42"-48" HDPE End Section		
85	Ea.	4	24"-36" RCP End Section		
86	Ea.	1	4'x5' RCB End Section and Wing Walls		
87	Ea.	1	8'x8' RCB End Section and Wing Walls		
88	Ea.	1	Dual 13'x15' RCB End Section and Wing Walls		
89	S.Y.	682	Type II Rock Blanket		
90	S.Y.	2448	Type IV Rock Blanket		
91	Ea.	22	4' Curb Cut Flume		
92	Ea.	1	Std. Junction Box (4' x 4' Inside)		
93	Ea.	1	Std. Junction Box (5' x 4' Inside)		
94	Ea.	2	Std. Junction Box (5' x 5' Inside)		
95	Ea.	1	Std. Junction Box (4' x 11' Inside)		
96	Ea.	1	Doghouse Junction Box (4' x 4' Inside)		
97	Ea.	2	Doghouse Junction Box (5' x 5' Inside)		
98	Ea.	2	Std. Manhole (5' Dia.)		
99	Ea.	3	Std. Curb Inlet (4' x 4' Inside)		
100	Ea.	12	Std. Curb Inlet (5' x 3' Inside)		
101	Ea.	26	Std. Curb Inlet (5' x 5' Inside)		
102	Ea.	1	Std. Curb Inlet (6' x 6' Inside)		
103	Ea.	3	Std. Curb Inlet (7' x 7' Inside)		
104	Ea.	4	Std. Field Inlet (4' x 4' Inside)		
105	Ea.	1	Connect to Existing Structure		
106	Ea.	2	Connect to Existing Box Culvert		
107	Ea.	2	Modify Existing Junction Box		
108	C.Y.	510	BMP Engineered Soil Matrix		
109	L.F.	625	BMP Drain Tile		
			Sanitary Sewers		
110	VF	36	Std. Manhole (4' dia.) Adjustment		
111	L.F.	497	Cured In Place Pipe Lining (24" Pipe)		
112	VF	40	Std. Manhole (4' dia.) Lining		
			Water Lines - Non-Participating		
113	LF	979	36" DIP CL 54 waterline (Unrestrained Joint)		
114	LF	1442	42" DIP CL 54 waterline (Unrestrained Joint)		
115	LF	120	4" DIP CL 52 waterline (Restrained Joint)		
116	LF	242	6" DIP CL 52 waterline (Restrained Joint)		
117	LF	663	8" DIP CL 52 waterline (Restrained Joint)		
118	LF	812	12" DIP CL 52 waterline (Restrained Joint)		
119	LF	120	16" DIP CL 54 waterline (Restrained Joint)		
120	LF	40	24" DIP CL 54 waterline (Restrained Joint)		
121	LF	20	30" DIP CL 54 waterline (Restrained Joint)		
122	LF	1262	36" DIP CL 54 waterline (Restrained Joint)		
123	LF	2085	42" DIP CL 54 waterline (Restrained Joint)		
124	LF	50	60" Steel Casing Pipe w/Spacers & End Seals		

125	EA	1	42" CL 54 - 11.25 Degree Bend		
126	EA	5	42" CL 54 - 45 Degree Bend		
127	EA	1	42" CL 54 - 90 Degree Bend		
128	EA	2	36" CL 54 - 11.25 Degree Bend		
129	EA	1	36" CL 54 - 22.5 Degree Bend		
130	EA	7	36" CL 54 - 45 Degree Bend		
131	EA	2	16" CL 54 - 45 Degree Bend		
132	EA	4	12" CL 52 - 45 Degree Bend		
133	EA	4	12" CL 52 - 90 Degree Bend		
134	EA	1	8" CL 52 - 11.25 Degree Bend		
135	EA	1	8" CL 52 - 22.5 Degree Bend		
136	EA	7	8" CL 52 - 45 Degree Bend		
137	EA	5	8" CL 52 - 90 Degree Bend		
138	EA	6	6" CL 52 - 45 Degree Bend		
139	EA	4	4" CL 52 - 45 Degree Bend		
140	EA	2	4" Solid Sleeve Coupling		
141	EA	3	6" Solid Sleeve Coupling		
142	EA	9	8" Solid Sleeve Coupling		
143	EA	3	12" Solid Sleeve Coupling		
144	EA	3	16" Solid Sleeve Coupling		
145	EA	2	24" Solid Sleeve Coupling		
146	EA	1	30" Solid Sleeve Coupling		
147	EA	7	36" Solid Sleeve Coupling		
148	EA	2	42" Solid Sleeve Coupling		
149	EA	2	24" PCCP to DIP Adaptor		
150	EA	2	36" PCCP to DIP Adaptor		
151	EA	3	36"x12" Reducer		
152	EA	1	36"x24" Reducer		
153	EA	1	42"x36" Reducer		
154	EA	2	42"x12" Reducer		
155	EA	1	16"x8" Reducer		
156	EA	1	12"x8" Reducer		
157	EA	1	8"x6" Reducer		
158	EA	1	6"x4" Reducer		
159	EA	6	8" Plug		
160	EA	1	12" Plug		
161	EA	1	24" Plug		
162	EA	2	36" Plug		
163	EA	1	42" Plug		
164	EA	1	Concrete Backing Block for 36" Plug		
165	EA	26	6" Gate Valve		
166	EA	13	8" Gate Valve		
167	EA	5	12" Gate Valve		
168	EA	1	16" Butterfly Valve		
169	EA	5	36" Butterfly Valve		
170	EA	1	42" Butterfly Valve		
171	EA	3	2" Air Release Assembly & Vault		
172	EA	1	3" Air Release Asssembly & Vault		

173	EA	4	8"x6" DIP Tee		
174	EA	2	8"x8" DIP Tee		
175	EA	1	12"x8" DIP Tee		
176	EA	3	12"x6" DIP Tee		
177	EA	1	16"x6" DIP Tee		
178	EA	2	36"x36" DIP Tee		
179	EA	1	36"x12" DIP Tee		
180	EA	5	36"x6" DIP Tee		
181	EA	1	36"x8" DIP Tee		
182	EA	7	42"x6" DIP Tee		
183	EA	2	42"x8" DIP Tee		
184	EA	1	42"x12" DIP Tee		
185	EA	1	42"x8" DIP Cross		
186	EA	1	36"x16" DIP Cross		
187	EA	1	42"x42" DIP Wye		
188	EA	2	Straddle Block on 4" Main		
189	EA	4	Straddle Block on 6" Main		
190	EA	10	Straddle Block on 8" Main		
191	EA	6	Straddle Block on 12" Main		
192	EA	1	Straddle Block on 16" Main		
193	EA	1	Straddle Block on 24" Main		
194	EA	1	Straddle Block on 36" Main		
195	EA	1	Water Service Transfer (Reg 51506)		
196	EA	14	Fire Hydrant Assembly		
197	EA	1	Flushing Assembly for 16-inch Pipe		
198	EA	6	Flushing Assembly for 12-inch Pipe		
199	EA	7	Flushing Assembly for 8-inch Pipe		
200	EA	3	Flushing Assembly for 6-inch Pipe		
201	EA	1	Flushing Assembly for 4-inch Pipe		
202	EA	13	Pipeline Markers		
MODOT STREET CONSTRUCTION					
			Grading		
203	C.Y.	1,776	Pavement, Curb, and Sidewalk Removal		
204	C.Y.	4,281	MoDOT Class A Excavation		
205	C.Y.	1,966	MoDOT Class C Excavation		
206	C.Y.	2,317	MoDOT Compacting Embankment		
207	S.Y.	2,818	Rock Subbase (4" MoDOT Type 5)		
208	S.Y.	5,374	Rock Subbase (6" MoDOT Type 5)		
			Pavement		
209	S.Y.	512	5.75" MoDOT Type A Shoulder (CONC)		
210	S.Y.	6,881	9" Concrete Pavement		
211	TON	124	2" Asphalt Pavement (Englewood Overlay)		
212	S.Y.	333	4" Concrete (Colored and Textured)		
213	S.Y.	1,103	2" Milling		
			Curbs, Sidewalks, & Drives		
214	L.F.	1,129	Curb & Gutter (Type CG-1)		
215	L.F.	1,357	Curb & Gutter (Edge Curb, Type DC-2)		
216	S.Y.	108	Concrete Sidewalks (MoDOT Concrete Median Strip)		

217	S.Y.	760	Concrete Sidewalks (5' Wide)		
218	S.Y.	271	Concrete Shared Use Path (10' Wide)		
219	S.Y.	118	ADA Curb Ramps		
			Pavement Marking & Signage		
220	Ea.	42	Street Signs (Includes Post & All Attached Signs)		
221	Ea.	2	Relocate Existing Signs (Includes Posts and Footings)		
222	L.F.	1,440	4" Solid White Thermoplastic		
223	L.F.	302	4" Dashed White Thermoplastic		
224	L.F.	188	4" Dotted White Thermoplastic		
225	L.F.	780	4" Double Solid Yellow Thermoplastic		
226	L.F.	1,038	6" Solid White Edge Line		
227	L.F.	975	6" Solid White Lane Line		
228	L.F.	1,133	6" Solid Yellow Edge Line		
229	L.F.	376	12" Solid White Thermoplastic		
230	L.F.	140	24" Solid White Thermoplastic		
231	Ea.	31	16"x24" White Thermoplastic Yield Triangle		
232	Ea.	26	White Thermoplastic Turn Arrow		
233	Ea.	2	White Thermoplastic "ONLY"		
			Storm Sewers		
234	L.F.	25	15" RCP		
235	L.F.	197	18" RCP		
236	L.F.	48	21" RCP		
237	L.F.	174	24" RCP		
238	L.F.	15	30" RCP		
239	Ea.	2	18" RCP End Section		
240	Ea.	1	24" RCP End Section with Concrete Toe Wall		
241	Ea.	6	Culvert Cleanout		
242	Ea.	3	Std. Curb Inlet (5' x 3' Inside) (0' - 6' deep)		
243	V.F.	3.2	Extra Depth on Curb Inlet (5' x 3')		
244	Ea.	1	Std. Curb Inlet (5' x 4' Inside) (0' - 6' deep)		
245	Ea.	1	Std. Curb Inlet (8' x 4' Inside) (0' - 6' deep)		
246	Ea.	4	MODOT - Precast Drop Inlet (5' x 4') (Type S) (0'-6' deep)		
247	Ea.	1	Std. Manhole (4' Inside Diameter) (0' - 6' deep)		
248	Ea.	2	Adjust Existing Drainage Structure		
			Miscellaneous		
249	L.S.	1	Demolition		
250	Ac.	0.3	Tree Clearing (no burning)		
251	L.F.	445	Gutter (MoDOT Type B Gutter)		
252	S.Y.	472	Slope Protection (MoDOT Concrete Slope Protection)		
253	L.F.	575	MGS Guardrail, 8' Posts		
254	Ea.	1	MASH Approved Crashworthy End Terminal		
255	Ea.	2	MGS End Anchor Section		
256	Ea.	1	MGS to Type A Guardrail Transition		
			Temporary Traffic Control		
257	S.F.	1018	Signing		
258	Ea.	150	Channelizers		
259	Ea.	30	Type 3 Moveable Barricade		

260	Ea.	3	Flashing Arrow Panel		
261	Ea.	20	Tubular Marker		
262	L.F.	220	Traffic Barrier		
263	Ea.	3	Changeable Message Sign		
264	Ea.	2	Barrier Height Transition		
265	L.F.	4860	4" Temp. Solid White		
266	L.F.	5260	4" Temp. Solid Yellow		
267	L.F.	60	24" Temp. Solid White		
268	L.F.	9970	Pavement Marking Removal		
269	L.S.	1	Traffic Signal No. 1 - Summit/Englewood		
270	L.S.	1	Traffic Signal No. 2 - Western Ramps/Englewood		
271	L.S.	1	Traffic Signal No. 3 - Eastern Ramps/Englewood		
272	S.F.	11785	Retaining Wall beneath 169 Hwy		
			Street Lighting		
273	Ea.	52	LED Luminaire		
274	Ea.	4	400 Watt HPS Luminaire, 35' Mounting Height, 6' Bracket Arm		
275	Ea.	8	250 Watt HPS Luminaire, 35' Mounting Height, 6' Bracket Arm		
276	Ea.	1	150 Watt HPS Luminaire, 30' Mounting Height, 6' Bracket Arm		
277	Ea.	1	Screw In Base - Small		
278	Ea.	64	Screw In Base - Large		
279	Ea.	1	6" Anit-Theft Device		
280	Ea.	64	8" Anit-Theft Device		
281	Ea.	72	KCMO ID Labels		
282	Ea.	4	Ground Rod		
283	Ea.	6	Pull Box		
284	Ea.	2	Lighting Controller, 1ckt		
285	Ea.	2	Lighting Controller, 2ckt		
286	Ea.	65	Breakaway, Set-Screw HEB Fuse Kits w/ 10A Fuses		
287	Ea.	130	Unfused Breakaway Fuse Kits		
288	L.F.	9740	2#4, 1#6 RHH/RHW/USE		
289	L.F.	765	2#8, 1#8 RHH/RHW/USE		
290	L.F.	2984	3#10 RHW/USE (Internal Pole Wiring)		
291	L.F.	400	3#1, USE		
292	L.F.	10505	2" PVC		
293	L.F.	400	3" PVC		
294	Ea.	4	KCPL Services		
295	Ea.	7	Remove Existing Luminaries: NMF0612 - NMF0618		
296	Ea.	4	Remove Existing Luminaries: NLF0040 - NLF0043		
297	Ea.	2	Remove Existing Luminaries: NLF0001 - NLF0002		
298	Ea.	11	Remove Existing Luminaries: NMG1001 - NMG1011		
299	Ea.	5	Remove Existing Luminaries: NMG1520 - NMG1524		
			LANDSCAPING		
			Trees		
300	EA.	279	Street Trees - 2.5" caliper; B&B		
301	EA.	110	RPM's		
			Shrubs		

302	EA.	1,877	Shrubs - 5 gallon		
			Perennials		
303	EA.	4,056	Perennials - 1 gallon		
			Seeding / Sodding		
304	AC.	6.70	Fescue Seeding		
305	S.Y.	55,176	Bonded Fiber Matrix		
306	S.Y.	21,900	Fescue Sodding		
307	AC.	4.7	Native Seed Mix		
308	AC.	4.7	Temporary Seeding		
			Materials		
309	EA.	10,505	Tree Gator Bags		
310	L.F.	2,435	Steel Edging		
311	S.Y.	4,366	Erosion Blanket		
312	L.F.	3,850	Shovel Cut Edging		
313	SF	925	Decorative Aggregate		
314	C.Y.	8,452	Topsoil		
315	EA.	2	Benches (KC Parks standard)		
316	C.Y.	55.0	CIP Concrete (reinforced)		
317	S.F.F.	797	Native Stone Veneer		
			Entry Monuments and Landscaping		
318	EA.	1	Landscaping at Harden Avenue (re-use existing rock)		
319	EA.	1	Landscaping at North Ames Avenue		
320	EA.	1	Landscaping at North Wyoming Avenue		
321	EA.	1	Landscaping at West Englewood Elementary (remove, store and re-install existing sign)		
322	EA.	1	Landscaping and stonework at North Mercier Drive		
			Total Unit Prices:	TOTAL \$	

Item No.	Unit	Quantity	Item Description:
KANSAS CITY MISSOURI STREET CONSTRUCTION			
Miscellaneous			
1	L.S.	1	Mobilization
2	L.S.	1	Construction Staking
3	Ac.	13.48	Clearing & Grubbing
4	Ac.	6.51	Tree Removal (No Burning)
5	C.Y.	6,740	Pavement & Curb Removal
6	S.F.	503	Signing
7	Ea.	9	Type 3 Moveable Barricade
8	Ea.	1	Field Office
Grading			
9	Ac.	19.99	Topsoil Removal, Stockpile and Distribution
10	C.Y.	82.693	Unclassified Excavation
11	C.Y.	71,472	Embankment
12	S.Y.	36,897	Subgrade Stabilization (9' Flyash Treatment)
13	S.Y.	36,897	Rock Subbase (6" MoDOT Type 5)
14	S.Y.	36,897	Fine Grading (Subgrade)
15	S.F.	1,261	Modular Block Retaining Wall
Erosion Control			
16	L.F.	14000	Silt Fence
17	Ea.	91	Inlet Protection
18	Ea.	1	Vehicle Tracking Device
19	S.Y.	25730	Soil Stability Blanket
Pavement			
20	S.Y.	277	2" Mill and Overlay
21	S.Y.	21,384	2" Asphalt Surface
22	S.Y.	1,847	6" Asphalt Base
23	S.Y.	3,615	7" Asphalt Base
24	S.Y.	15,923	9" Asphalt Base
25	S.Y.	6,964	Asphalt Extension Under Curb
26	S.Y.	223	6" Concrete
27	S.Y.	6,786	8" Concrete
28	S.Y.	792	4" Concrete (Colored and Textured)
29	S.Y.	748	8" Concrete (Colored and Textured)
Curbs & Sidewalks			
30	L.F.	14,834	Curb & Gutter (Type CG-1)
31	L.F.	947	Curb & Gutter (Type CG-2)
32	L.F.	8,864	Curb (Type C-1)
33	L.F.	264	Mountable Curb & Gutter
34	L.F.	211	Concrete Sidewalks (4' Wide, 4" Thick)
35	L.F.	5,111	Concrete Sidewalks (5' Wide, 4" Thick)
36	L.F.	89	Concrete Sidewalks (6' Wide, 4" Thick)
37	L.F.	536	Concrete Sidewalks (8' Wide, 6" Thick)
38	L.F.	4,484	Concrete Sidewalks (10' Wide, 6" Thick)
39	S.F.	7,641	ADA Curb Ramps (6" Thick w/ Detectable Warning)
Pavement Marking and Signage			
40	Ea.	123	Street Sign (Includes Post & All Attached Signs)
41	Ea.	2	School Zone Flasher Sign
42	L.F.	56	4" Thermoplastic Solid White Pavement Marking
43	L.F.	19	4" Thermoplastic Solid Yellow Pavement Marking
44	L.F.	1,255	4" Thermoplastic Double Solid Yellow Pavement Marking
45	L.F.	74	4" Thermoplastic Double Dashed Yellow Pavement Marking
46	L.F.	7,620	6" Thermoplastic Solid White Pavement Marking
47	L.F.	944	6" Thermoplastic Dotted White Pavement Marking
48	L.F.	339	8" Thermoplastic Solid White Pavement Marking
49	L.F.	172	8" Thermoplastic Dotted White Pavement Marking
50	L.F.	74	24" Thermoplastic Solid White Stop Bar
51	L.F.	348	24" Thermoplastic Solid White Crosswalk Line
52	S.Y.	274	12" Thermoplastic Yellow Diagonal Hatch (12' O.C.)
53	Ea.	11	Thermoplastic White Turn Arrow Pavement Marking
54	Ea.	3	Thermoplastic White "ONLY" Pavement Marking
55	Ea.	12	Thermoplastic White Bike Lane Symbol & Arrow Pavement Marking
56	L.F.	60	4" Epoxy Dashed White Pavement Marking
57	L.F.	172	4" Epoxy Dotted White Pavement Marking
58	L.F.	93	4" Epoxy Solid Yellow Pavement Marking
59	L.F.	80	4" Epoxy Double Solid Yellow Pavement Marking
60	L.F.	593	6" Epoxy Solid White Pavement Marking
61	L.F.	598	6" Epoxy Dotted White Pavement Marking
62	L.F.	269	8" Epoxy Solid White Pavement Marking
63	L.F.	1,014	12" Epoxy Solid White Pavement Marking
64	L.F.	110	12" Epoxy Dotted White Pavement Marking
65	L.F.	180	24" Epoxy Solid White Stop Bar
66	Ea.	13	Epoxy White Turn Arrow Pavement Marking
67	Ea.	1	Epoxy White Bike Lane Symbol & Arrow Pavement Marking
Storm Sewers			
68	L.F.	351	15" HDPE
69	L.F.	71	18" HDPE
70	L.F.	560	24" HDPE
71	L.F.	99	30" HDPE
72	L.F.	169	36" HDPE
73	L.F.	65	42" HDPE
74	L.F.	2133	15" RCP
75	L.F.	314	18" RCP
76	L.F.	1204	24" RCP
77	L.F.	328	30" RCP
78	L.F.	101	36" RCP

79	L.F.	133	4'x5' RCB
80	L.F.	74	8'x8' RCB
81	L.F.	178	Dual 13'x15' RCB
82	Ea.	3	15'-18" HDPE End Section
83	Ea.	3	24"-36" HDPE End Section
84	Ea.	1	42"-48" HDPE End Section
85	Ea.	4	24"-36" RCP End Section
86	Ea.	1	4'x5' RCB End Section and Wing Walls
87	Ea.	1	8'x8' RCB End Section and Wing Walls
88	Ea.	1	Dual 13'x15' RCB End Section and Wing Walls
89	S.Y.	682	Type II Rock Blanket
90	S.Y.	2448	Type IV Rock Blanket
91	Ea.	22	4' Curb Cut Flume
92	Ea.	1	Std. Junction Box (4' x 4' Inside)
93	Ea.	1	Std. Junction Box (5' x 4' Inside)
94	Ea.	2	Std. Junction Box (5' x 5' Inside)
95	Ea.	1	Std. Junction Box (4' x 11' Inside)
96	Ea.	1	Doghouse Junction Box (4' x 4' Inside)
97	Ea.	2	Doghouse Junction Box (5' x 5' Inside)
98	Ea.	2	Std. Manhole (5' Dia.)
99	Ea.	3	Std. Curb Inlet (4' x 4' Inside)
100	Ea.	12	Std. Curb Inlet (5' x 3' Inside)
101	Ea.	26	Std. Curb Inlet (5' x 5' Inside)
102	Ea.	1	Std. Curb Inlet (6' x 6' Inside)
103	Ea.	3	Std. Curb Inlet (7' x 7' Inside)
104	Ea.	4	Std. Field Inlet (4' x 4' Inside)
105	Ea.	1	Connect to Existing Structure
106	Ea.	2	Connect to Existing Box Culvert
107	Ea.	2	Modify Existing Junction Box
108	C.Y.	510	BMP Engineered Soil Matrix
109	L.F.	625	BMP Drain Tile
Sanitary Sewers			
110	VF	36	Std. Manhole (4' dia.) Adjustment
111	L.F.	225	Cured In Place Pipe Lining (18" Pipe)
112	L.F.	272	Cured In Place Pipe Lining (21" Pipe)
113	VF	40	Std. Manhole (4' dia.) Lining
Water Lines - Non-Participating			
114	LF	979	36" DIP CL 54 waterline (Unrestrained Joint)
115	LF	1442	42" DIP CL 54 waterline (Unrestrained Joint)
116	LF	120	4" DIP CL 52 waterline (Restrained Joint)
117	LF	242	6" DIP CL 52 waterline (Restrained Joint)
118	LF	663	8" DIP CL 52 waterline (Restrained Joint)
119	LF	812	12" DIP CL 52 waterline (Restrained Joint)
120	LF	120	16" DIP CL 54 waterline (Restrained Joint)
121	LF	40	24" DIP CL 54 waterline (Restrained Joint)
122	LF	20	30" DIP CL 54 waterline (Restrained Joint)
123	LF	1262	36" DIP CL 54 waterline (Restrained Joint)
124	LF	2085	42" DIP CL 54 waterline (Restrained Joint)
125	LF	50	60" Steel Casing Pipe w/Spacers & End Seals
126	EA	1	42" CL 54 - 11.25 Degree Bend
127	EA	5	42" CL 54 - 45 Degree Bend
128	EA	1	42" CL 54 - 90 Degree Bend
129	EA	2	36" CL 54 - 11.25 Degree Bend
130	EA	1	36" CL 54 - 22.5 Degree Bend
131	EA	7	36" CL 54 - 45 Degree Bend
132	EA	2	16" CL 54 - 45 Degree Bend
133	EA	4	12" CL 52 - 45 Degree Bend
134	EA	4	12" CL 52 - 90 Degree Bend
135	EA	1	8" CL 52 - 11.25 Degree Bend
136	EA	1	8" CL 52 - 22.5 Degree Bend
137	EA	7	8" CL 52 - 45 Degree Bend
138	EA	5	8" CL 52 - 90 Degree Bend
139	EA	6	6" CL 52 - 45 Degree Bend
140	EA	4	4" CL 52 - 45 Degree Bend
141	EA	2	4" Solid Sleeve Coupling
142	EA	3	6" Solid Sleeve Coupling
143	EA	9	8" Solid Sleeve Coupling
144	EA	3	12" Solid Sleeve Coupling
145	EA	3	16" Solid Sleeve Coupling
146	EA	2	24" Solid Sleeve Coupling
147	EA	1	30" Solid Sleeve Coupling
148	EA	7	36" Solid Sleeve Coupling
149	EA	2	42" Solid Sleeve Coupling
150	EA	2	24" PCCP to DIP Adaptor
151	EA	2	36" PCCP to DIP Adaptor
152	EA	3	36"x12" Reducer
153	EA	1	36"x24" Reducer
154	EA	1	42"x36" Reducer
155	EA	2	42"x12" Reducer
156	EA	1	16"x8" Reducer
157	EA	1	12"x8" Reducer
158	EA	1	8"x6" Reducer
159	EA	1	6"x4" Reducer
160	EA	6	8" Plug
161	EA	1	12" Plug
162	EA	1	24" Plug
163	EA	2	36" Plug
164	EA	1	42" Plug
165	EA	1	Concrete Backing Block for 36" Plug

166	EA	26	6" Gate Valve
167	EA	13	8" Gate Valve
168	EA	5	12" Gate Valve
169	EA	1	16" Butterfly Valve
170	EA	5	36" Butterfly Valve
171	EA	1	42" Butterfly Valve
172	EA	3	2" Air Release Assembly & Vault
173	EA	1	3" Air Release Assembly & Vault
174	EA	4	8"x6" DIP Tee
175	EA	2	8"x8" DIP Tee
176	EA	1	12"x8" DIP Tee
177	EA	3	12"x6" DIP Tee
178	EA	1	16"x6" DIP Tee
179	EA	2	36"x36" DIP Tee
180	EA	1	36"x12" DIP Tee
181	EA	5	36"x6" DIP Tee
182	EA	1	36"x8" DIP Tee
183	EA	7	42"x6" DIP Tee
184	EA	2	42"x8" DIP Tee
185	EA	1	42"x12" DIP Tee
186	EA	1	42"x8" DIP Cross
187	EA	1	36"x16" DIP Cross
188	EA	1	42"x42" DIP Wye
189	EA	2	Straddle Block on 4" Main
190	EA	4	Straddle Block on 6" Main
191	EA	10	Straddle Block on 8" Main
192	EA	6	Straddle Block on 12" Main
193	EA	1	Straddle Block on 16" Main
194	EA	1	Straddle Block on 24" Main
195	EA	1	Straddle Block on 36" Main
196	EA	1	Water Service Transfer (Reg. 51506)
197	EA	14	Fire Hydrant Assembly
198	EA	1	Flushing Assembly for 16-inch Pipe
199	EA	6	Flushing Assembly for 12-inch Pipe
200	EA	7	Flushing Assembly for 8-inch Pipe
201	EA	3	Flushing Assembly for 6-inch Pipe
202	EA	1	Flushing Assembly for 4-inch Pipe
203	EA	13	Pipeline Markers

MODOT STREET CONSTRUCTION			
Grading			
204	C.Y.	1,776	Pavement, Curb, and Sidewalk Removal
205	C.Y.	4,281	MoDOT Class A Excavation
206	C.Y.	1,966	MoDOT Class C Excavation
207	C.Y.	2,317	MoDOT Compacting Embankment
208	S.Y.	2,818	Rock Subbase (4" MoDOT Type 5)
209	S.Y.	5,374	Rock Subbase (6" MoDOT Type 5)
Pavement			
210	S.Y.	512	5.75" MoDOT Type A Shoulder (CONC)
211	S.Y.	6,881	9" Concrete Pavement
212	TON	124	2" Asphalt Pavement (Englewood Overlay)
213	S.Y.	333	4" Concrete (Colored and Textured)
214	S.Y.	1,103	2" Milling
Curbs, Sidewalks, & Drives			
215	L.F.	1,129	Curb & Gutter (Type CG-1)
216	L.F.	1,357	Curb & Gutter (Edge Curb, Type DC-2)
217	S.Y.	108	Concrete Sidewalks (MoDOT Concrete Median Strip)
218	S.Y.	760	Concrete Sidewalks (5' Wide)
219	S.Y.	271	Concrete Shared Use Path (10' Wide)
220	S.Y.	118	ADA Curb Ramps

Pavement Marking & Signage			
221	Ea.	42	Street Signs (Includes Post & All Attached Signs)
222	Ea.	2	Relocate Existing Signs (Includes Posts and Footings)
223	L.F.	1,440	4" Solid White Thermoplastic
224	L.F.	302	4" Dashed White Thermoplastic
225	L.F.	188	4" Dotted White Thermoplastic
226	L.F.	780	4" Double Solid Yellow Thermoplastic
227	L.F.	1,038	6" Solid White Edge Line
228	L.F.	975	6" Solid White Lane Line
229	L.F.	1,133	6" Solid Yellow Edge Line
230	L.F.	376	12" Solid White Thermoplastic
231	L.F.	140	24" Solid White Thermoplastic
232	Ea.	31	16"x24" White Thermoplastic Yield Triangle
233	Ea.	26	White Thermoplastic Turn Arrow
234	Ea.	2	White Thermoplastic "ONLY"
Storm Sewers			
235	L.F.	25	15" RCP
236	L.F.	197	18" RCP
237	L.F.	48	21" RCP
238	L.F.	174	24" RCP
239	L.F.	15	30" RCP
240	Ea.	2	18" RCP End Section
241	Ea.	1	24" RCP End Section with Concrete Toe Wall
242	Ea.	6	Culvert Cleanout
243	Ea.	3	Std. Curb Inlet (5' x 3' Inside) (0' - 6' deep)
244	V.F.	3.2	Extra Depth on Curb Inlet (5' x 3')
245	Ea.	1	Std. Curb Inlet (5' x 4' Inside) (0' - 6' deep)
246	Ea.	1	Std. Curb Inlet (8' x 4' Inside) (0' - 6' deep)
247	Ea.	4	MODOT - Precast Drop Inlet (5' x 4') (Type S) (0'-6' deep)
248	Ea.	1	Std. Manhole (4' Inside Diameter) (0' - 6' deep)
249	Ea.	2	Adjust Existing Drainage Structure

Miscellaneous			
249	L.S.	1	Demolition
250	Ac.	0.3	Tree Clearing (no burning)
251	L.F.	445	Gutter (MoDOT Type B Gutter)
252	S.Y.	472	Slope Protection (MoDOT Concrete Slope Protection)
253	L.F.	575	MGS Guardrail, 8' Posts
254	Ea.	1	MASH Approved Crashworthy End Terminal
255	Ea.	2	MGS End Anchor Section
256	Ea.	1	MGS to Type A Guardrail Transition
Temporary Traffic Control			
257	S.F.	1018	Signing
258	Ea.	150	Channelizers
259	Ea.	30	Type 3 Moveable Barricade
260	Ea.	3	Flashing Arrow Panel
261	Ea.	20	Tubular Marker
262	L.F.	220	Traffic Barrier
263	Ea.	3	Changeable Message Sign
264	Ea.	2	Barrier Height Transition
265	L.F.	4860	4" Temp. Solid White
266	L.F.	5260	4" Temp. Solid Yellow
267	L.F.	60	24" Temp. Solid White
268	L.F.	9970	Pavement Marking Removal
269	L.S.	1	Traffic Signal No. 1 - Summit/Englewood
270	L.S.	1	Traffic Signal No. 2 - Western Ramps/Englewood
271	L.S.	1	Traffic Signal No. 3 - Eastern Ramps/Englewood
272	S.F.	11785	Retaining Wall beneath 169 Hwy
Street Lighting			
273	Ea.	52	LED Luminaire
274	Ea.	4	400 Watt HPS Luminaire, 35' Mounting Height, 6' Bracket Arm
275	Ea.	8	250 Watt HPS Luminaire, 35' Mounting Height, 6' Bracket Arm
276	Ea.	1	150 Watt HPS Luminaire, 30' Mounting Height, 6' Bracket Arm
277	Ea.	1	Screw In Base - Small
278	Ea.	64	Screw In Base - Large
279	Ea.	1	6" Anti-Theft Device
280	Ea.	64	8" Anti-Theft Device
281	Ea.	72	KCMO ID Labels
282	Ea.	4	Ground Rod
283	Ea.	6	Pull Box
284	Ea.	2	Lighting Controller, 1ckt
285	Ea.	2	Lighting Controller, 2ckt
286	Ea.	65	Breakaway, Set-Screw HEB Fuse Kits w/ 10A Fuses
287	Ea.	130	Unfused Breakaway Fuse Kits