

STATE	PROJECT NO.	YEAR	SHEET NO.	TOTAL SHEETS
KANSAS	87 N-0361-01	2011	117	169

MKEC
ENGINEERING
CONSULTANTS, INC.
411 N. WEBB ROAD
WICHITA, KS. 67206
316-684-9600

LINCOLN BRIDGE ITEMS			
Item	Description	Quantity	Unit
LUMP SUM BID ITEMS ROADWAY			
1	Pavement Removal	2,887	S.Y.
2	Sidewalk, Driveway and Parking Lot Removal	9,237	S.F.
3	Excavation	320	C.Y.
4	Compacted Fill	285	C.Y.
5	Concrete Pavement 12" (Reinforced)	557	S.Y.
6	Concrete Pavement 9" (Reinforced)	821	S.Y.
7	Concrete Pavement 9" (NRDJ)	743	S.Y.
8	Concrete Pavement 7" (Reinforced)	459	S.Y.
9	Crushed Rock Base 6", Reinforced	2,632	S.Y.
10	Crushed Rock Base 5", Reinforced	548	S.Y.
11	Concrete Safety Barrier (Special)AE	117	L.F.
12	Bridge Approach Slab Footing	95	C.Y.
13	Concrete C & G, Comb.Type 1 (6" & 1-1/2")	736	L.F.
14	Concrete C & G, Comb.Type 3 (6" & 1-1/2")	122	L.F.
15	Concrete C & G Removed and Replaced	100	L.F.
16	Concrete Steps	45	S.Y.
17	Handrail, Stairs	67	L.F.
18	Handrail, Wall	17	L.F.
19	Wheelchair Ramp	2	Each
20	Brick Pavers (Concrete), Crosswalk	1,878	S.F.
21	Brick Pavers (Concrete), Median	2,264	S.F.
22	Brick Pavers (Concrete), Landscape	2,170	S.F.
23	Concrete Ramp Nose Section (Median)	1	Each
24	Concrete Retaining Wall "F"	126	L.F.
25	Concrete Retaining Wall "H"	16	L.F.
26	Concrete Retaining Wall "I"	12	L.F.
27	Concrete Retaining Wall "J"	24	L.F.
28	Concrete Retaining Wall "K"	51	L.F.
LUMP SUM BID ITEMS - BRIDGE			
29	Excavation, Class I	324	C.Y.
30	Concrete 4.0 AE SA	908	C.Y.
31	Concrete 4.0 AE	542	C.Y.
32	Reinforcing Gr 60 Epoxy	356,960	Lbs.
33	Structural Steel AASHTO M270 Grade 50W T3	1,154,740	Lbs.
34	Structural Steel AASHTO M270 Grade 50W	104,040	Lbs.
35	Structural Steel AASHTO M270 Grade 50	6,400	Lbs.
36	Drilled Shaft, 60" Cased	465	L.F.
37	Drilled Shaft, 30" Cased	873	L.F.
38	Bridge Backwall Protection System	364	S.Y.
39	Abutment Strip Drain	346	S.Y.
40	Welded Stud Shear Connectors 7/8"	11,952	Each
41	Bridge Drainage System	5,680	Lbs.
42	Handrail, Pedestrian	1,024	L.F.
43	Bridge Plaque (non-participating)	1	Each
44	Bridge Plaque, Remove & Replace (non-participating)	1	Each
LUMP SUM BID ITEMS - MISCELLANEOUS			
45	Removal of Existing Structures	1	L.S.
46	Transportation of Salvaged Materials (non-participating)	1	L.S.
47	Site Restoration	1	L.S.
48	Contractor Construction Staking	1	L.S.
49	Field Office and Laboratory (Type A)	1	Each
50	Mobilization	1	L.S.
51	Mobilization (DBE)	1	L.S.
52	Rip Rap, Light Stone 24"	878	S.Y.
LUMP SUM BID ITEMS - TRAFFIC/PAVEMENT MARKING			
53	Traffic Signal Modification	1	L.S.
54	Traffic Signing	1	L.S.
55	Traffic Control	1	L.S.
56	Lighting Conduit and Cable	1	L.S.
57	Pavement Marking	1	L.S.
LUMP SUM BID ITEMS - LANDSCAPE AND SODDING			
58	Sodding	1	L.S.
MEASURED QUANTITY BID ITEMS - ROADWAY			
59	Concrete Driveway Pavement 10" (Reinforced)	911	S.F.
60	Concrete Driveway 8" Reinforced	363	S.F.
61	Concrete Sidewalk 4"	2,013	S.F.
62	Concrete Sidewalk 8"	2,612	S.F.
63	Concrete Sidewalk 8" Reinforced	3,680	S.F.
64	Concrete Sidewalk - Thickened Edge	306	L.F.

LINCOLN BRIDGE ITEMS			
Item	Description	Quantity	Unit
MEASURED QUANTITY BID ITEMS - BRIDGE			
65	Sonic Test (Drilled Shaft)	26	Each
MEASURED QUANTITY BID ITEMS - TRAFFIC			
66	Portable Changeable Electronic Message Sign	60	Day
MEASURED QUANTITY BID ITEMS - BMP			
67	Erosion Control BMP (Back of Curb Protection)	202	L.F.
68	Erosion Control BMP (Curb Inlet Protection)	3	Each
69	Erosion Control BMP (Stabilized Entrance)	1	Each
70	Erosion Control BMP (Silt Barrier)	569	L.F.

DAM ITEMS (Non-Participating)			
Item	Description	Quantity	Unit
LUMP SUM BID ITEMS - DAM			
71	Sheet Pile	54,820	S.F.
72	Concrete Seal Course	2,017	S.Y.
73	Reinforced Spillway Concrete	3,332	C.Y.
74	Reinforced Pier Concrete	512	C.Y.
75	Reinforced Abutment Concrete	22	C.Y.
76	Structural Beams WF24	136,320	Lbs.
77	Structural Steel	8,260	Lbs.
78	Steel Studs	2,432	Each
79	Drilled Shaft, 30"	274	L.F.
80	Reinforced Concrete Maintenance Structure Deck	102	C.Y.
81	Handrail, 42" Safety	507	L.F.
82	Fence, 96" Security	145	L.F.
83	Hinged Crest Gate System	1	L.S.
84	Water Level Sensor Well	2	Each
85	Electrical Service and Distribution	1	L.S.
86	Lighting	1	L.S.
87	Generator and Transfer Switch	1	L.S.
88	SCADA System	1	L.S.
89	Control Building	1	Each
LUMP SUM BID ITEMS - PAVING			
90	Sidewalk, Driveway and Parking Lot Removal	2,597	S.F.
91	Bridge Approach Slab Footing	10	C.Y.
92	Handrail, Pedestrian	173	L.F.
LUMP SUM BID ITEMS - RETAINING WALL			
93	Concrete Retaining Wall "A"	80	L.F.
94	Concrete Retaining Wall "B"	49	L.F.
LUMP SUM BID ITEMS - MISCELLANEOUS			
95	Diversion and Care of River	1	L.S.
96	SWS 18" Pipe	204	L.F.
97	MH, Standard SWS (4')	2	Each
98	Driveway Grated Inlet, Double	1	Each
99	Rip-Rap, Concrete	192	S.Y.
100	Rip Rap, Light Stone 24"	236	S.Y.
101	Articulated Concrete Block Revetment	131	S.Y.
102	Dam Plaque	1	Each
LUMP SUM BID ITEMS - LANDSCAPE AND SODDING			
103	Sodding	1	L.S.
MEASURED QUANTITY BID ITEMS - PAVING			
104	Concrete Sidewalk 8"	567	S.F.
105	Concrete Sidewalk 8" Reinforced	2,216	S.F.
106	Asphalt Patch	80	S.Y.
MEASURED QUANTITY BID ITEMS - MISCELLANEOUS			
107	Tree Removal, Large	3	Each
MEASURED QUANTITY BID ITEMS - BMP			
108	Erosion Control BMP (Back of Curb Protection)	150	L.F.
109	Erosion Control BMP (Silt Barrier)	420	L.F.

PORTAGE ITEMS (Non-Participating)			
Item	Description	Quantity	Unit
LUMP SUM BID ITEMS - PAVING			
110	Sidewalk, Driveway and Parking Lot Removal	5,718	S.F.
111	Concrete Steps	72	S.Y.
112	Handrail, Stairs	119	L.F.
113	Handrail, Wall	127	L.F.
114	Handrail, Pedestrian	988	L.F.
115	Wheelchair Ramp	1	Each
LUMP SUM BID ITEMS - RETAINING WALL			
116	Concrete Retaining Wall "E"	740	L.F.
117	Concrete Retaining Wall "L"	118	L.F.
118	Concrete Retaining Wall "M"	132	L.F.
119	Dry-Stack Stone Retaining Wall	470	S.F. Face
LUMP SUM BID ITEMS - DOCK "A"			
120	Concrete Sidewalk 8" Reinforced (incl.toewall)	3,900	S.F.
LUMP SUM BID ITEMS - DOCK "B"			
121	Concrete Sidewalk 8" Reinforced (incl.toewall)	1,170	S.F.
LUMP SUM BID ITEMS - MISCELLANEOUS			
122	Removable Bollard	2	Each
123	SWS 18" Pipe	75	L.F.
124	SWS 36" Pipe	436	L.F.
125	MH, Standard SWS (6')	3	Each
126	Inlet, Curb (Type 1)(L=5' W=5')	1	Each
127	Inlet, Curb (Type 1)(L=10' W=3')	1	Each
128	Inlet, Curb (Type 1)(L=10' W=5')	1	Each
129	Inlet Hook-up	3	Each
130	Rip Rap, Light Stone 24"	393	S.Y.
131	River Signing	1	L.S.
132	Information Signing	1	L.S.
133	Lighting	1	L.S.
LUMP SUM BID ITEMS - LANDSCAPE/SODDING			
134	Sodding	1	L.S.
135	Eatem Cottonwood, 3" Cal. / B&B	4	Each
136	Valley Forge Elm, 6" Cal. / B&B	1	Each
137	Sunburst Honeylocust, 3" Cal. / B&B	13	Each
138	Eastern Redbud, 1.5" Cal. / B&B	29	Each
139	Mulch	65	S.Y.
140	Bench	4	Each
141	Waste Receptacle	2	Each
MEASURED QUANTITY BID ITEMS - PAVING			
142	Concrete Driveway 8" Reinforced	144	S.F.
143	Concrete C & G Removed and Replaced	47	L.F.
144	Concrete Sidewalk 4"	2,748	S.F.
145	Concrete Sidewalk 8"	4,509	S.F.
146	Concrete Sidewalk 8" Reinforced	6,413	S.F.
147	Concrete Sidewalk - Thickened Edge	270	L.F.
148	Permanent Pavement Patch	42	S.Y.
149	Temporary Pavement Patch	133	S.Y.
MEASURED QUANTITY BID ITEMS - MISCELLANEOUS			
150	Tree Removal, Small	6	Each
151	Tree Removal, Large	11	Each
MEASURED QUANTITY BID ITEMS - BMP			
152	Erosion Control BMP (Stabilized Entrance)	1	Each
153	Erosion Control BMP (Silt Barrier)	1,200	L.F.

BOAT/FISH PASS ITEMS (Non-Participating)			
Item	Description	Quantity	Unit
LUMP SUM BID ITEMS - RETAINING WALL			
154	Concrete Retaining Wall "C"	476	L.F.
155	Concrete Retaining Wall "D"	486	L.F.
LUMP SUM BID ITEMS - BOAT/FISH PASS			
156	Reinforced Concrete Diaphragm Beams	530	C.Y.
157	Concrete Channelizer	22	Each
158	Precast Concrete Weir	11	Each
159	Substrate Material	1,500	S.Y.
160	Rip-Rap, Light Stone 18"	275	S.Y.
161	Aggregate Surfacing	210	S.Y.
162	Pool Appurtenances	11	Each
163	Stoplog System	1	L.S.
164	Baffle System	1	L.S.
165	2-Yr Warranty (Non-Participating)	1	Each
166	Concrete Masonry Coating and Surface Treatment	1	L.S.

LINCOLN STREET BRIDGE AND DAM IMPROVEMENTS OVER ARKANSAS RIVER

RECAPITULATION OF QUANTITIES

SHEET TITLE
472-84883
PROJECT NUMBER

JRA
DESIGN BY
DPG
DRAWN BY

CHECKED BY

ISSUED
1/24/2011
REVISED

SHEET NO.
117 of 169

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