

STATE	PROJECT NO.	YEAR	SHEET NO.	TOTAL SHEETS
KANSAS	87 N-0612-01	2015	58	84



CONSTRUCTION PLANS FOR
21ST STREET BRIDGE AT DERBY REFINERY
 WICHITA, KANSAS

PAVEMENT								
REFERENCE LINE STATION	SIDE	CONCRETE PAVEMENT 12" (REINF.) (SQ.YD.)	CONCRETE APPROACH 12" BRIDGE (SQ.YD.)	CONCRETE SAFETY BARRIER SPECIAL (L.F.)	BRIDGE APPROACH SLAB FOOTING (CU.YD.)	A.C. PAVEMENT 7" (5" BIT. BASE) (SQ.YD.)	CONCRETE DRIVEWAY 8" (SQ.FT.)	REMARKS
104+30.00 - 104+62.88	Lt.						37.9	
104+30.00 - 104+59.03	C/L					141.7		
104+59.03 - 104+91.45	C/L	158.5						
104+79.03 - 104+97.22	Lt.			18.19				
104+91.60	C/L				20.7			
104+91.74 - 105+14.83	C/L		161.7					
105+04.44 - 105+33.02	Rt.			28.58				
105+48.78 - 105+66.95	Lt.			18.17				
105+66.97 - 105+90.06	C/L		161.7					
105+90.20	C/L				20.7			
105+84.58 - 106+02.76	Rt.			18.19				
105+40.35 - 106+22.74	C/L	158.4						
106+03.01 - 106+20.66	Rt.			17.65				
106+22.74 - 106+69.00	C/L					226.7		
TOTAL		316.9	323.4	100.78	41.4	368.4	37.9	

SIDEWALK CONSTRUCTION					
REFERENCE LINE STATION	SIDE	CONCRETE SIDEWALK 4" (SQ.FT.)	SIDEWALK THICKENING (L.F.)	CONCRETE SIDEWALK 12" (REINF.) (SQ.FT.)	REMARKS
105+77.61 - 105+91.44	Lt.	76.06	13.83		
106+03.01 - 106+22.74	Rt.		19.73	138.10	
106+13.50 - 106+69.00	Lt.	221.49	55.50		
TOTAL		297.55	89.06	138.10	

CONCRETE RETAINING WALL/CONCRETE RIP-RAP			
REFERENCE LINE STATION	OFFSET	REINF. CONCRETE RETAINING WALL (S.F.--FACE)	REINF. CONCRETE RIP-RAP (SQ.YD.)
104+99.2	33.0' Lt.	23.63	
105+20.8	31.5' Rt.		5.5
105+43.0	33.3' Lt.	23.63	
105+87.0	70.2' Rt.		13.4
105+96.8	31.5' Rt.		7.4
TOTALS		47.26	26.3

CONCRETE CURB AND GUTTER				
REFERENCE LINE STATION	SIDE	CONCRETE C & G, TYPE 1, SPECIAL (6" & 1 1/2") (L.F.)	CONCRETE SIDEWALK PROTECTION CURB (L.F.)	REMARKS
104+30.00 - 105+04.19	Rt.	74.19		
104+30.00 - 105+78.78	Lt.	148.78		
105+77.61 - 106+69.00	Lt.	91.39		
106+22.74 - 106+69.00	Rt.	46.26	40.0	
TOTAL		360.62	40.0	

STORM SEWER REMOVALS					
STATION	OFFSET	SIZE/TYPE	STRUCTURE **	LENGTH ≠	FILL, SAND (FLUSHED & VIBRATED) (L.F.)
104+95.2	28.8' Lt.		Curb Inlet		
105+07.2	C/L	15" RCP		53.0	53.0
105+24.0	26.2' Rt.		Curb Inlet		
105+29.3	26.3' Rt.	18" RCP		5.6	5.6
105+62.8	22.9' Lt.		Curb Inlet		
105+75.0	C/L	15" RCP		52.4	52.4
105+78.3	27.1' Rt.	18" RCP		2.8	2.8
105+86.5	26.0' Rt.		Curb Inlet		
TOTALS			4	113.8	113.8

** Paid for as "Inlet Removed". No designation of type, size, or depth will be made.
 ≠ Paid for as "Pipe Removed". No designation of pipe size will be made.

REINFORCED CRUSHED ROCK BASE			
REFERENCE LINE STATION	CRUSHED ROCK BASE (6"), REINF. (SQ.YD.)	CRUSHED ROCK BASE (8"), REINF. (SQ.YD.)	REMARKS
104+30.00 - 104+59.03		161.5	
104+59.03 - 104+91.45	183.7		
104+91.74 - 105+14.83	161.7		
105+66.97 - 105+90.06	161.7		
105+40.35 - 106+22.74	191.8		
106+22.74 - 106+69.00		255.8	
TOTAL	698.9	417.3	

STORM SEWER PIPE AND STRUCTURES *									
LINE NO.	PIPE			FILL, SAND (FLUSHED & VIBRATED) (L.F.)	INLETS			MANHOLES MH, REINFORCED CONCRETE (5'x5') (EACH)	INLET HOOKUP (EACH)
	PIPE, SWS 18" RCP (L.F.)	PIPE, SWS 24" RCP (L.F.)	PIPE, SWS 30" RCP (L.F.)		INLET, CURB (TYPE 1) (L=10', W=4') (EACH)	INLET, CURB (TYPE 2) (L=6' 2 1/2", W=3' 4 3/8") (EACH)	INLET, GRATED DRIVEWAY, DOUBLE (EACH)		
1	57.92	63.42		111.50	1		20		2
2			115.63	107.13	2		10	1	2
3		45.82		41.60		2	10		2
TOTALS	57.92	109.24	115.63	260.23	3	2	40	1	6

* All pipe conduit is measured per lineal feet and structures are measured per each. End Sections are not paid for separately but are paid for per lineal foot of pipe.

RECAPITULATION OF QUANTITIES			
ITEM NO.	BID ITEM DESCRIPTION	QUANTITY	UNIT
Lump Sum Bid Items - Paving (OCA No. 715732)			
1	Field Office and Laboratory (Type A)	1	LS
2	Site Clearing	1	LS
3	Mobilization	1	LS
4	Transport of Salvaged Materials	1	LS
5	Pavement &/or Curb Removed	1,324	sy
6	Removal of Existing Structures	1	LS
7	Shoring, Temporary	1	LS
8	Construction Staking	1	LS
9	Concrete Pavement 12" (Reinf.)	317	sy
10	Concrete Approach 12", Bridge	324	sy
11	Concrete Safety Barrier, Special	101	lf
12	Bridge Approach Slab Footing	42	cy
13	AC Pavement 7" (5" Bit. Base)	369	sy
14	Crushed Rock Base 6", Reinforced	699	sy
15	Crushed Rock Base 8", Reinforced	418	sy
16	Concrete C & G, Type 1, Special (6" & 1-1/2")	361	lf
17	Concrete Sidewalk 12" (Reinf.)	139	sf
18	Pipe, SWS 18" RCP	58	lf
19	Pipe, SWS 24" RCP	110	lf
20	Pipe, SWS 30" RCP	116	lf
21	Inlet, Curb (Type 1)(L=10' W=4')	3	ea
22	Inlet, Curb (Type 2)(L=6' 2-1/2" W=3' 4-3/8")	2	ea
23	Inlet, Grated Driveway, Double	1	ea
24	MH, Reinforced Concrete (5' x 5')	1	ea
25	Inlet Hookup	6	ea
26	Inlet Removed	4	ea
27	Sodding	1	LS
28	Site Restoration	1	LS
Lump Sum Bid Items - Bridge (OCA No. 715732)			
29	Cast Steel Pile Points	16	ea
30	Structural Steel (M270) (Gr 50WT3)	105,326	lbs
31	Structural Steel (A709) (Gr 50WT3)	28,726	lbs
32	Structural Steel (A709) (Gr 50W)	2,556	lbs
33	Welded Stud Shear Connectors	2,352	ea
34	Reinforcing Steel (Grade 60) (Epoxy Coated)	34,120	lbs
35	Bridge Deck Strip Seal	53	lf
36	Concrete (Grade 4.0)(AE)	38	cy
37	Concrete (Grade 4.0)(AE)(SA)	138	cy
38	Bridge Deck Grooving	272	sy
39	Pipe Hanger Assembly	5	ea
40	Bridge Plaque (Non-Participating)	1	ea
40	Curing Environment	1	LS
Lump Sum Bid Items - Traffic (OCA No. 715732)			
41	Pavement Markings	1	LS
42	Sign, Existing, Removed	2	ea
43	Traffic Control	1	LS
44	Junction Box	1	ea
45	Detector Loop Installation	1	LS

PAVEMENT REMOVAL		
STATION TO STATION	PAVEMENT AND/OR CURB REMOVED (SQ.YD.)	SIDEWALK, DRIVE AND/OR PKG. LOT REMOVED (SQ.YD.)
104+30.00 - 106+69.00	1,323.9	139.2
TOTAL	1,323.9	139.2

RECAPITULATION OF QUANTITIES CONT.			
ITEM NO.	BID ITEM DESCRIPTION	QUANTITY	UNIT
Measured Quantity Bid Items - Paving (OCA No. 715732)			
46	Sidewalk, Drive, &/or Pkg Lot Removed	140	sy
47	Excavation, Special Waste	912	cy
48	Excavation, Hazardous Waste	50	cy
49	Excavation, Contractor Furnished	220	cy
50	Concrete Driveway 8"	38	sf
51	Concrete Sidewalk 4"	298	sf
52	Sidewalk Thickening	90	lf
53	Concrete Sidewalk Protection Curb	40	lf
54	Rip-Rap, Reinforced Concrete 6"	27	sy
55	Retaining Wall, Reinforced	48	sf-face
56	Pipe, SWS 4", PVC, Perforated	40	lf
57	Fill, Sand (Flushed and Vibrated)	374	lf
58	Pipe Removed	114	lf
Measured Quantity Bid Items - Bridge (OCA No. 715732)			
59	Piles (Steel) (HP14x89)	497	lf
60	Contractor Furnished PDA	2	ea
Measured Quantity Bid Items - Erosion Control BMP (OCA No. 715732)			
60	BMP, Back of Curb Protection	133	lf
61	BMP, Construction Entrance	4	ea
62	BMP, Curb Inlet Protection	4	ea
62	BMP, Silt Fence	156	lf
Measured Quantity Bid Items - Traffic (OCA No. 715732)			
63	Signage, Elec. Portable Message (each per day)	60	day
64	Concrete Safety Barrier, Temporary	552	lf
ITEM NO.	BID ITEM DESCRIPTION	QUANTITY	UNIT
Measured Quantity Bid Items - Water (OCA No. 636310) (Non-Participating)			
1	Pipe, WL 8"	41	lf
2	Pipe, WL 8", DICL	3	lf
3	Valve Assembly, Anchored 8"	1	ea
4	Valve Assembly, Blowoff 2"	2	ea
5	Pipe, Cut and Cap 8"	2	ea
6	Pavement &/or Curb Removed and Replaced	10	sy

* Non-Participating Items

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SUMMARY AND RECAPITULATION OF QUANTITIES

PROJECT NO.	472-85120	
DATE	JULY 2015	
SCALE	NO SCALE	
DESIGNED	DRAWN	CHECKED
JRA	WNJ	JRA
NO.	REVISION	DATE

PLOTTED: Wednesday, July 22, 2015 @ 10:20AM
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