

FHWA REGION NO.	STATE	PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
7	KANSAS	87N-0503-01	2009	75	101

FEDERAL Project No. ARRA-N050(301)

Tree Removal Quantities			
Tree Size (in)	Street Size		Total
	West	East	
6		1	1
8	1		1
10		2	2
12		7	7
14		2	2
16		3	3
18	1	5	6
20		4	4
24	1	7	8
26		1	1
28		1	1
30	1	4	5
36	1		1
38		1	1
54	1		1
Total	6	38	44

Water Valve Adjustments			
Sta.	Offset	Exist Elev	New Elev.
52+48	11.0' Lt.	1291.07	1290.40
52+49	26.0' Lt.	1290.48	1290.25
59+70	22.0' Lt.	1293.36	1293.12
TOTAL			3

Removal of Exist. Structures*		
Item	Sta	Offset
Traffic Junction Box	8+04	23.0' Rt.
Traffic Signal Pole	9+38	40.0' Lt.
SWS Inlet	9+38	35.0' Lt.
Traffic Control Box	9+45	43.0' Lt.
Traffic Manhole	9+46	40.0' Lt.
Traffic Manhole	9+47	69.0' Rt.
Traffic Signal Pole	9+57	59.0' Rt.
SWS Inlet	9+57	41.0' Rt.
SWS Inlet	9+63	61.0' Lt.
Traffic Manhole	9+94	69.0' Rt.
Traffic Signal Pole	9+94	73.0' Rt.
Traffic Manhole	10+06	58.0' Lt.
Traffic Signal Pole	10+06	63.0' Lt.
SWS Inlet	10+38	60.0' Lt.
Traffic Manhole	10+43	52.0' Lt.
Traffic Signal Pole	10+44	56.0' Lt.
Traffic Manhole	10+46	52.0' Rt.
Traffic Signal Pole	10+58	42.0' Rt.
SWS Inlet	10+63	35.0' Lt.
SWS Inlet	10+73	33.0' Rt.
Guard Post	10+90	36.0' Lt.
Guard Post	11+00	36.0' Lt.
Guard Post	11+10	36.0' Lt.
Guard Post	11+21	36.0' Lt.
Guard Post	11+30	36.0' Lt.
Traffic Junction Box	12+04	35.0' Lt.
Traffic Manhole	34+88	22.0' Rt.
SWS Inlet	35+89	35.0' Rt.
Traffic Signal Pole	36+06	31.0' Lt.
Traffic Control Box	36+09	51.0' Lt.
Traffic Manhole	36+12	53.0' Lt.
Traffic Signal Pole	36+16	56.0' Rt.
Traffic Manhole	36+18	65.0' Rt.
Traffic Signal Pole	36+53	80.0' Rt.
Traffic Manhole	36+53	89.0' Rt.
Traffic Signal Pole	36+64	53.0' Lt.
Traffic Manhole	36+64	57.0' Lt.
Traffic Manhole	36+98	59.0' Lt.
Traffic Manhole	36+98	62.0' Rt.
Traffic Signal Pole	37+04	33.0' Lt.
Traffic Signal Pole	37+09	40.0' Rt.
SWS Inlet	37+29	35.0' Rt.
Traffic Junction Box	38+44	20.0' Lt.
SWS Inlet	42+03	17.0' Lt.
SWS Inlet	42+15	33.0' Lt.
SWS Inlet	42+16	17.0' Rt.
SWS Inlet	42+35	30.0' Rt.
SWS Inlet	42+42	31.0' Lt.
SWS Inlet	42+50	18.0' Lt.
SWS Inlet	42+69	31.0' Rt.
SWS Inlet	42+83	16.0' Rt.
SWS Inlet	46+18	17.0' Rt.
SWS Inlet	46+83	17.0' Rt.
SWS Inlet	46+93	18.0' Rt.
SWS Inlet	48+29	20.0' Rt.
SWS Inlet	48+84	17.0' Lt.
SWS Inlet	48+90	16.0' Rt.
SWS Inlet	49+81	15.0' Rt.
SWS Inlet	52+43	20.0' Rt.
SWS Inlet	52+44	45.0' Lt.
SWS Inlet	52+77	48.0' Lt.
SWS Inlet	52+79	19.0' Rt.
SWS Inlet	52+81	19.0' Lt.

* For Information Only

BID ITEM	Approximate Quantities	Unit
LUMP SUM BID ITEMS - PAVING		
Field Office & Lab (Type A)	1	EA.
Mobilization	1	L.S.
Mobilization (DBE)	1	L.S.
Site Clearing & Preparation	1	L.S.
Site Restoration	1	L.S.
Removal of Existing Structures	1	L.S.
Pavement Removal (Includes Curb & Gutter)	23,367	S.Y.
Parking Lot, Sidewalk & Driveway Removal (Conc. & Asphalt)	8,116	S.Y.
Excavation	7,707	C.Y.
Compacted Fill	128	C.Y.
Concrete Intersection Pavement (9") (Reinf) (AE)	4,050	S.Y.
Concrete Pavement (8") (NRDJ) (AE)	18,796	S.Y.
RCVG Pavement (8") (Reinf) (AE)	1,724	S.Y.
Concrete Pavement (8") (Reinf) (AE)	140	S.Y.
A.C. Pavement Surface (2") (BM-2) (PG 70 - 28)	1,088	S.Y.
Reinforced Crushed Rock Base (6")	4,140	S.Y.
Reinforced Crushed Rock Base (5")	24,225	S.Y.
Curb & Gutter (Combined) (Type I) (6" & 1 1/2") (AE)	9,816	L.F.
Curb & Gutter (Combined) (Type III) (8") (AE)	544	L.F.
Monolithic Edge Curb (6") (AE)	982	L.F.
Solid Conc. Median Ramp-type Nose Section	4	EA.
Wheelchair Ramps	40	EA.
Paving Brick (3 1/8 in) (Crosswalk) (Incl. Sand Base)	577	S.Y.
Paving Brick (2 3/8 in) (Median) (Incl. Sand Base)	969	S.F.
Concrete Median Surface (4")	1,549	S.F.
Cold Milling (2")	1,088	S.Y.
Concrete Inlet Hookups	30	EA.
Sodding	7,270	S.Y.
LUMP SUM BID ITEMS - DRAINAGE		
Inlet (Curb) (Type 1) (Single) (L= 5' W= 3)	3	EA.
Inlet (Curb) (Type 1) (Single) (L= 5' W= 4)	2	EA.
Inlet (Curb) (Type 1) (Double) (L= 10' W= 2.5) (Special)	2	EA.
Inlet (Curb) (Type 1) (Double) (L=10' W= 3)	7	EA.
Inlet (Curb) (Type 1) (Double) (L=10' W=4)	3	EA.
Inlet (Curb) (Type 1a) (Double) (L=10' W=2.5) (Special Setback)	6	EA.
Inlet (Curb) (Type 1a) (Single) (L=5' W=3")	3	EA.
Inlet (Curb) (Type 1a) (Double) (L=10' W= 3)	1	EA.
Inlet (Curb) (Type 2) (Double)	3	EA.
Inlet (Driveway) (Double)	1	EA.
Reinf. Conc. Manhole (6'x6')	1	EA.
Reinf. Conc. Manhole (7'x7')	1	EA.
Manhole (Std Type P) (5' Dia.)	1	EA.
Manhole (Std Shallow Type P) (5' Dia.)	2	EA.
Manhole (Std Shallow Type P) (4' Dia.)	2	EA.
Storm Sewer (6") (PVC)	15	L.F.
Storm Sewer (12") (DICL)	210	L.F.
Storm Sewer (12") (C 900 W/L)	356	L.F.
Storm Sewer (15") (RCP)	1,012	L.F.
Storm Sewer (18") (RCP)	1,419	L.F.
Storm Sewer (24") (RCP)	816	L.F.
Storm Sewer (30") (RCP)	836	L.F.
Manhole Reconstructed w/New Ring & Cover	1	EA.
Manholes Abandoned	3	EA.
Storm Sewer Pipe Abandoned in Place	1,712	L.F.
LUMP SUM BID ITEMS - TRAFFIC		
Pavement Marking	1	L.S.
Project Signage	1	L.S.
Temporary Signalization (2 Locations)	1	L.S.
Traffic Signalization at Hydraulic & Harry	1	L.S.
Traffic Signalization at Hydraulic & Lincoln	1	L.S.
Traffic Control (Construction)	1	L.S.
MEASURED QUANTITY BID ITEMS		
Sidewalk Concrete (4") (AE)	42,029	S.F.
Reinforced Concrete Driveway Pavement (8") (AE)	38,128	S.F.
A.C. Parking Lot Pavement (5")	800	S.F.
Temporary Asphalt Pavement (6")	270	S.Y.
Crushed Rock Surface (6") (Drive Hookup)	336	S.F.
Protection Curb	142	L.F.
Manhole Adjustments w/New Ring & Cover	13	EA.
Manhole Adjustments w/o New Ring & Cover	11	EA.
Metal Plate AT&T Manhole Cover (Furnish & Install)	1	EA.
AT&T Manholes Adjusted	13	EA.
Concrete Flume w/Sidewalk Section	11	L.F.
Sand Fill, Flush & Vibrate	4,649	L.F.
Small Tree Removal (Less than 15")	13	EA.
Large Tree Removal (Greater than 15")	31	EA.
Erosion Control (Back of Curb Protection)	5,800	S.Y.
Erosion Control (Inlet Protection)	39	EA.
Erosion Control (Stabilized Construction Entrance)	8	EA.
Portable, Changeable Electronic Message Boards	100	Days

NON-PARTICIPATING ITEMS:		
LUMP SUM BID ITEMS - NON-STANDARD		
Transportation of Salvageable Material	1	L.S.
Water Valve Adjustments	1	L.S.
LUMP SUM BID ITEMS - SANITARY SEWER		
18" PVC SS Pipe (Incl. Removal of Exist. Pipe)	58	L.F.
30" PVC SS Pipe (Incl. Removal of Exist. Pipe)	479	L.F.
Reinf. Concrete Manholes (6'-6"x4')	2	EA.
Remove Manhole	3	EA.
Temporary Asphalt Pavement (6")	300	S.Y.
By-Pass Pumping	1	L.S.
Sand Fill, Flush & Vibrate	498	L.F.
4" Service Line	30	L.F.
MEASURED QUANTITY BID ITEMS - WATERLINE		
2" Water Pipe	18	L.F.
6" Water Pipe	33	L.F.
8" Water Pipe	5,580	L.F.
6" DI CL Water Pipe	27	L.F.
8" DI CL Water Pipe	188	L.F.
6" Valve Assy (Gate Valve)	3	EA.
6" Anchored Valve Assy (Gate Valve)	1	EA.
8" Valve Assy (Gate Valve)	10	EA.
8" Anchored Valve Assy (Gate Valve)	6	EA.
2" Service Outlet Assy	2	EA.
Fire Hydrant Assy	7	EA.
Fire Hydrants Removal	7	EA.
2" Blow-Off Assy	5	EA.
Sand Fill, Flush & Vibrate	680	L.F.
Conc. Sanitary Sewer Encasement	20	L.F.
Temporary Asphalt Pavement (6")	762	S.Y.
Remove Existing Water Valves	2	EA.
Abandon Existing Water Valves	19	EA.
Relocate & Re-install Water Services (Short)	84	EA.
Relocate & Reinstall Water Services (Long)	72	EA.

Manhole Adjustments *					
Street	Sta.	Offset	Type	Exist Elev	New Elev.
Hydraulic	9+51	14.0' Lt.	SWS	1287.98	1289.00
Hydraulic	9+67	3.0' Rt.	SS	1288.24	1289.26
Hydraulic	10+22	19.0' Rt.	SWS	1287.99	1290.01
Hydraulic	10+22	7.0' Lt.	SWS	1288.23	1289.20
Hydraulic	10+65	7.0' Lt.	SWS	1288.11	1288.45
Hydraulic	12+56	3.0' Rt.	SS	1288.84	1288.09
Hydraulic	14+91	CL	SS	1289.50	1288.49
Hydraulic	16+73	CL	SS	1289.74	1289.36
Hydraulic	20+57	7.0' Lt.	SS	1290.28	1289.22
Hydraulic	25+86	6.0' Lt.	SS	1292.70	1292.11
Hydraulic	31+23	5.5' Lt.	SS	1295.53	1295.16
Hydraulic	36+30	6.0' Lt.	SS	1294.21	1294.40
Hydraulic	36+56	6.0' Rt.	SWS	1294.00	1294.48
Hydraulic	37+67	4.0' Lt.	SS	1293.21	1293.07
Hydraulic	39+37	3.0' Lt	SS	1291.40	1291.51
Hydraulic	41+98	1.5' Rt.	SS	1290.75	1290.49
Hydraulic	46+69	2.5' Rt.	SS	1290.41	1290.37
Hydraulic	46+94	2.5' Rt.	SS	Buried	1290.07
Hydraulic	49+88	42.0' Rt.	SWS	1290.08	1290.02
Hydraulic	52+55	CL	SS	1291.40	1290.88
Hydraulic	52+61	19.0' Lt.	SWS	1291.22	1290.31
Hydraulic	52+72	CL	SS	1291.44	1290.98
Hydraulic	57+51	CL	SS	1292.80	1292.51
Hydraulic	59+58	CL	SS	1293.99	1293.20
TOTAL					24

AT&T Manholes Adjusted				
Street	Sta.	Offset	Exist Elev	New Elev.
Hydraulic	10+35	26.0' Rt	1287.78	1288.61
Hydraulic	16+84	13.0' Rt	1289.41	1288.73
Hydraulic	23+31	19.0' Rt	1291.16	1289.87
Hydraulic	23+39	12.0' Rt	1290.34	1290.04
Hydraulic	29+94	17.0' Rt	1295.86	1295.15
Hydraulic	36+46	22.0' Rt	1294.02	1294.32
Hydraulic	36+46	28.0' Rt	1293.89	1294.24
Hydraulic	36+54	22.0' Rt	1294.08	1294.35
Hydraulic	36+54	28.0' Rt	1294.00	1294.28
Hydraulic	41+18	17.0' Rt	1290.54	1290.10
Hydraulic	46+49	23.0' Rt	1289.84	1289.90
Hydraulic	52+32	18.5' Rt	1291.54	1290.09
Hydraulic	57+77	21.5' Rt	1292.39	1292.64
TOTAL				13

EARTHWORK										
STA. TO STA. (BASELINE)	ROADWAY	EXCAVATION		COMPACTION		EXCAVATION WASTED		EMBANKMENT	TOPSOIL	REMARKS
		COMMON	NOTE	IN FILL (TYPE B) (MR-90)	IN CUT (TYPE B) (MR-90)	COMMON	ROCK			
6+78.00 - 59+91.20	Hydraulic	13,378.90	*	127.68	-	-	-	-	-	See Cross-Sections.
NET TOTALS		13,378.90	*	127.68	-	-	-	-	-	
EX. PAVEMENT ADJUSTMENT		5,672.10	**	--	-	-	-	-	-	
BID TOTALS		7,706.80		127.68		4,881.71	7,062.92			

* Total Excavation = Earth Work Calculated from Existing Surfaces.

** Estimated Volume of Removal of Pavement (See Earthwork Quantity Sheets for Depths).

***Waste Calculated using the following Equation:
 $W = 0.9[(0.8 \times \text{common Excavation}) - (1.2 \times \text{Fill})]$

Drawing File: E:\eng\Hydraulic_Kellogg to Harry Pav\Land\dwg\Quantity Summary.dwg
 Design: KK
 Drawn: Staff
 Approved: JFB
 Scale: NOTED

Project No. 0710 E 968

Recapitulation of Quantities

HYDRAULIC PAVING- KELLOGG TO HARRY

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 ENGINEERING | SURVEYING | PLANNING | LANDSCAPE ARCHITECTURE

September 2009
 SHEET
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