FHWA REGION NO.	STATE	PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
7	KANSAS	*	1976	167	304

△ Revised Plans 1-31-77
△ Revised Plans Feb. 24-1977
△ REVISED PLANS APR 26-1977
△ REVISED PLANS MAY 4-1977

* 35W-871-35W-1(33)46
Construction Phase 3

⊕4" GRANULAR - 6" LIME TREATMENT (SLURRY) - COMPACTION (TYPE AA) MR-O

LOCATION STATION TO STATION		SIDE	# 4" GRANULAR SUBBASE SQ. YDS.	# 6" LIME TREATED SUBGRADE MANIPULATION SQ. YDS.	HYDRATED LIME (H) TONS	WATER (J) M. GALS.	# COMP. (TYPE AA) MR-O CU. YDS.	REMARKS
KELLOGG STREET							11447	
25+75	31+01.06	CL	6,868.0	6,868.0	85.0	102.0	~~3,124.4~~	~~INCL. COMPACTION TEMP. CONN.~~
31+01.06	33+00	LT.	2,597.3	2,597.3	32.1	38.6	432.9	
33+00	35+97.60	LT.	2,298.4	2,298.4	28.4	34.1	383.1	INCLUDES RAMP NSW (A)
31+01.06	35+97.60	RT.	3,221.5	3,221.5	39.9	47.8	536.9	
37+57.10	42+24.75	LT.	2,638.8	2,638.8	32.7	39.2	439.8	
37+57.10	37+90.35	RT.	299.2	299.2	3.7	4.4	49.9	INCLUDES RAMP WNS (B)
37+90.35	39+30.35	RT.	855.6	855.6	10.6	12.7	142.6	
39+30.25	42+24.75	RT.	1,649.2	1,649.2	20.4	24.5	274.9	
52+64.25	60+20.86	LT.	4,268.4	4,268.4	52.8	63.4	711.4	
60+20.86	61+60.86	LT.	855.6	855.6	10.6	12.7	142.6	
61+60.86	61+70.86	LT.	68.7	68.7	0.9	1.0	11.5	INCLUDES RAMP ENS (C)
61+70.86	62+03.01	LT.	315.1	315.1	3.9	4.7	52.5	INCLUDES RAMP ENS (C)
52+64.25	62+03.01	RT.	5,291.6	5,291.6	65.5	78.6	881.9	
63+71.53	65+00	LT.	815.4	815.4	10.1	12.1	135.9	INCLUDES RAMP ENS (D)
63+71.53	66+50	RT.	2,147.9	2,147.9	26.6	31.9	358.0	INCLUDES RAMP NSE (E)
65+00	66+00	LT.	652.8	652.8	8.1	9.7	108.8	
66+50	66+51.28	RT.	8.4	8.4	0.1	0.1	1.4	
66+00	66+51.28	LT.	327.7	327.7	4.1	4.9	54.6	
66+51.28	67+66.67	LT.	688.5	688.5	8.5	10.2	114.8	
67+66.67	69+85.26	LT.	1,236.6	1,236.6	15.3	18.4	206.1	
69+85.26	70+98.89	LT.	682.8	682.8	8.4	10.1	113.8	
70+98.89	73+92.77	LT.	2,142.7	2,142.7	26.5	31.8	357.1	INCL. RP. A - GROVE ST. INT. (F)
73+92.77	74+00	LT.	47.2	47.2	0.6	0.7	7.9	
21+25.00	25+75.00	RT.	2,937.5	2,937.5	36.4	181.8	489.6	
23+75.00	25+75.00	LT.	1305	1305.5	16.2	80.9	436.6	INCL. COMPACTION OF CROSSOVER
RAMP A - GROVE ST. INTERCHANGE								
10+35.07	10+95.15	CL	250.7	250.7	3.1	3.7	41.8	INTERSECTION WITH GROVE
10+95.15	17+04.47	CL	1,641.8	1,641.8	20.3	24.4	156.6	
17+04.47	18+23.21	CL	325.7	325.7	4.0	4.8	54.3	
20+80.00	22+26.72	℄					285.3	EB FRONTAGE ROAD
2+32.30	2+60.30	℄					34.6	PATTIE STREET
KELLOGG STREET (CONT'D.)								
66+51.28	68+00	RT.	967.3	967.3	12.0	14.4	161.2	
68+00	69+66.67	RT.	1,010.4	1,010.4	12.5	15.0	168.4	
69+66.67	71+76	RT.	1,176.6	1,176.6	14.6	17.5	196.1	
71+76	71+77.48	RT.	8.3	8.3	0.1	0.1	1.4	
71+77.48	73+85.91	RT.	1,460.1	1,460.1	18.1	21.7	243.4	INCL. RP. B - GROVE ST. INT. (G)
73+85.91	74+00	RT.	92.0	92.0	1.1	1.4	15.3	
TEMPORARY CONNECTION (BEGINS STA 19+00± KELLOGG)								
18+70	21+37						172.7	
RAMP B - GROVE ST. INTERCHANGE								
10+40.48	11+13.48	CL	183.4	183.4	2.3	2.7	1.6	INTERSECTION WITH GROVE
11+13.48	17+91.27	CL	1,826.3	1,826.3	22.6	27.1	248.4	
17+91.27	20+16.06	CL	611.2	611.2	7.6	9.1	101.9	
			53,773.7	53,773.7	665.7	998.1	9301.6	
TOTAL			~~49,531.2~~	~~49,531.2~~	~~613.1~~	~~735.5~~	~~10,033.2~~	

(A) RP. NSW STA. 48+87.61 TO STA. 51+93.63
(B) RP. WNS STA. 11+54.01 TO STA. 11+87.05
(C) RP. ENS STA. 12+88.34 TO STA. 13+25.22
(D) RP. ENS STA. 10+00 TO STA. 11+20.85
(E) RP. NSE STA. 50+82.36 TO STA. 53+77.68
(F) RP. A STA. 18+23.21 TO STA. 31+14.86
(G) RP. B STA. 20+16.06 TO STA. 22+21.43
(H) LIME BASED ON 5%, BY WEIGHT, OF THE TOP 6" OF THE SUBGRADE WITH SOIL WEIGHT OF 110 LBS. PER CU. FT.
(J) WATER BASED ON 25%, BY WEIGHT, OF THE TOP 6" OF THE SUBGRADE WITH SOIL WEIGHT OF 110 LBS. PER CU. FT.

⊕ THE QUANTITIES IN THIS SUMMARY ARE FOR AREAS TO BE SURFACED THIS PHASE.

ROADWAY EARTHWORK

LOCATION STA. TO STA.		* EXCAVATION COMMON CU. YDS.	COMMON MULT. FACTOR	ROCK CU. YDS.	ROCK MULT. FACTOR	EMBANKMENT CU. YDS.	* COMPACTION TYPE B MR-5 CU. YDS.	* COMPACTION TYPE AA MR-O CU. YDS.	* THRU CUTS (NOT SUBGRADED) COMM. EXCAV. CU. YDS.	* THRU CUTS (NOT SUBGRADED) TYPE AA MR-O CU. YDS.
216+00	234+08.33	44,383	.8333	-		7,071	6,211	860	5,913	8,947
234+08.33	260+60.79	72,519	.8333	546	1.15	77,925	68,055	9,870	9,721	14,684
260+60.79	287+28.43	130,074	.8333	1,005	1.15	122,601	110,195	12,406	9,993	15,249
287+28.43	330+13.10	649,974	.8333	7,585	1.15	550,368	519,163	31,205	20,945	32,228
TOTALS		896,950		9,136		757,965	703,624	54,341	46,572	71,108

NOTES: ROCK EXCAVATION IS PAVEMENT REMOVAL.
* EXCAVATION AND COMPACTION QUANTITIES ARE FOR INFORMATION ONLY. PAYMENT IS SUBSIDIARY TO BID ITEM "EMBANKMENT"

THE ABOVE QUANTITIES DO NOT INCLUDE THE EARTHWORK QUANTITIES REQUIRED FOR THE CANAL

CANAL EARTHWORK

LOCATION STA. TO STA.		COMMON EXCAV. CU. YDS.	EMBANKMENT CU. YDS.	△COMPACTION TYPE B MR-5 CU. YDS.
216+00	234+08.33	31,154	4,606	4,606
234+08.33	260+60.79	101,970	18,267	18,267
260+60.79	287+28.43	73,393	16,664	16,664
287+28.43	330+65	83,240	12,510	12,510
TOTALS		289,707	52,047	52,047

NOTE: △COMPACTION QUANTITY IS FOR INFORMATION ONLY. PAYMENT IS SUBSIDIARY TO BID ITEM "EMBANKMENT".

ADJUSTMENT OF MANHOLES

LOCATION	NO.	FROM ELEV.	TO ELEV.
I-35W 304+23 - 762' LT.	1	1294.2	1297.6±
I-35W 323+51 - 303' LT.	1	1294.4	1292.9±
~~KELLOGG 31+25 - 44' LT.~~	~~1~~	~~1295.3~~	~~1295.08~~
~~KELLOGG 31+52 - 58' LT.~~	~~1~~	~~1294.8~~	~~1295.15~~
~~KELLOGG 32+11 - 54' LT.~~	~~1~~	~~1294.4~~	~~1295.15~~
WB FR. RD. #1 23+75 - 3' RT.	1	1293.6	1293.50
EB FR. RD. 35+78.09 - 25' LT.	1	N/A	1292.7±
KELLOGG 38+99 - 271' LT.	1	1295.7	1299.4±
KELLOGG 41+68 - 479' LT.	1	1296.6	1303.0±
TOTAL	6		

RECAPITULATION OF QUANTITIES

ITEM	QUANTITY	UNIT
CLEARING & GRUBBING	LUMP SUM	L.S.
REMOVAL OF EXISTING STRUCTURES	LUMP SUM	L.S.
SEWER EXCAVATION (COMMON)	7,079	CU. YD. △
CLASS III EXCAVATION	2,573	CU. YD.
COMMON EXCAVATION (CANAL)	289,707	CU. YD.
EMBANKMENT (CANAL)	52,047	CU. YD.
EMBANKMENT (ROADWAY)	757,965	CU. YD.
# MANIPULATION (LIME TREATED SUBGRADE)	49,531	SQ.YD. △
# HYDRATED LIME	613	TON △
# WATER (L.T.S.)	736	M.GAL. △
# GRANULAR SUBBASE (4")	49,531	SQ.YD. △
# COMPACTION (TYPE AA) MR-O	10,033	CU.YD. △
# WATER (COMPACTION)	1	M.GAL.
MEDIAN FILLER MATERIAL	288	TON
CONCRETE PAVEMENT (9" UNIFORM) (AE)	38,938	SQ. YD. △
CONCRETE PAVEMENT (6" UNIFORM) (AE)	6,289	SQ. YD. △
CONCRETE PAVEMENT (4" UNIFORM) (AE) (PLAIN)	411	SQ. YD.
CONCRETE PAVEMENT (9" UNIFORM) (AE) (PLAIN)	5,925	SQ. YD. △
## CONCRETE CANAL LINING (10") (AE)	88,018	SQ. YD.
## CONCRETE CANAL LINING (6") (AE)	67,880	SQ. YD.
CLASS A CONCRETE	1,783.6	CU. YD.
REINFORCING STEEL	171,540	LB.
CAST IRON	950	LB.
## CONCRETE PILES	5,578	LIN. FT.
STEEL SHEET PILES (HP-116)	384	LIN. FT.
ADJUSTMENT OF MANHOLES	9	EACH △
PLASTIC LINING	1,258	SQ. FT.
36" CROSS ROAD PIPE (RCP)	1,446	LIN. FT.
42" CROSS ROAD PIPE (RCP)	382	LIN. FT.
12" STORM SEWER	1,210	LIN. FT. △
15" STORM SEWER	420	LIN. FT. △
18" STORM SEWER	154	LIN. FT. △
36" STORM SEWER	159	LIN. FT.
12" STORM SEWER (RCP)	373	LIN. FT. △
15" STORM SEWER (RCP)	32	LIN. FT.
18" STORM SEWER (RCP)	291	LIN. FT.
24" STORM SEWER (RCP)	265	LIN. FT. △
30" STORM SEWER (RCP)	353	LIN. FT.
36" STORM SEWER (RCP)	271	LIN. FT.
42" STORM SEWER (RCP)	122	LIN. FT.
48" STORM SEWER (RCP)	108	LIN. FT.
12" STORM SEWER (BCCMP OR CMP)	1,316	LIN. FT.
15" STORM SEWER (BCCMP OR CMP)	248	LIN. FT.
18" STORM SEWER (BCCMP OR CMP)	799	LIN. FT.
21" STORM SEWER (BCCMP OR CMP)	198	LIN. FT.
24" STORM SEWER (BCCMP OR CMP)	8	LIN. FT.
30" STORM SEWER (BCCMP OR CMP)	15	LIN. FT.
36" STORM SEWER (BCCMP OR CMP)	27	LIN. FT.
15" SLOTTED MEDIAN DRAIN (BCCMP OR CMP)	104	LIN. FT. △
18" SLOTTED MEDIAN DRAIN (BCCMP OR CMP)	52	LIN. FT.
24" END SECTIONS (RC)	1	EACH
30" END SECTIONS (RC)	1	EACH
36" END SECTIONS (RC)	15	EACH △
42" END SECTIONS (RC)	6	EACH
12" END SECTIONS (CM)	7	EACH
18" END SECTIONS (CM)	3	EACH
21" END SECTIONS (CM)	1	EACH
30" END SECTIONS (CM)	1	EACH

NOTES:
SEE SH. NO. 106-107 FOR OFFSET SANITARY SEWER MANHOLE QUANTITIES.
SIDEWALK CONSTRUCTION HAS BEEN INCREASED 3% FOR CONTINGENCIES.
FOR LISTING OF OPTIONAL ALTERNATE STORM SEWER PIPE SEE SH. NO. 118 THRU NO. 120.
FOR "TEMPORARY PROJECT WATER POLLUTION CONTROL" QUANTITIES SEE SH. NO. 169.

FOR PROJECT SURFACING (BITUMINOUS) SEE SH. NO. 191.

LIME TREATED SUBGRADE, GRANULAR SUBBASE & COMPACTION (TYPE AA) MR-O ITEMS MAY BE UNDERRUN WHOLLY OR IN PART DEPENDENT UPON THE MATERIAL USED FOR AND THE CONDITION OF THE SUBGRADE CONSTRUCTED DURING PHASE 2. ANY UNDERRUNS WILL BE AT THE DIRECTION OF THE ENGINEER.

RECAPITULATION OF QUANTITIES (CONT.)

ITEM	QUANTITY	UNIT
12" FLAPGATE	92	EACH
18" FLAPGATE	2	EACH
24" FLAPGATE	1	EACH
30" FLAPGATE	1	EACH
36" FLAPGATE	16	EACH
42" FLAPGATE	3	EACH
48" FLAPGATE	1	EACH
60" FLAPGATE	1	EACH
84"x48" FLAPGATE	2	EACH
96"x60" FLAPGATE	3	EACH
12" PIPE UNDERDRAINS (TYPE B OR H)	23,296	LIN. FT.
# AGGREGATE FOR FILTER BLANKET (6")	35,650	TON
HEAVY STONE RIPRAP	1,422	SQ. YD.
# SAND-GRAVEL BACKING (6")	247	CU. YD.
COMBINED CURB & GUTTER (TYPE I & II) (AE)	11,619	LIN. FT. △
COMBINED CURB & GUTTER (TYPE III) (AE)	500	LIN. FT.
COMBINED CURB & GUTTER (TYPE III) (SPECIAL) (AE)	1,762	LIN. FT.
GUTTERS (AE)	348	LIN. FT.
SIDEWALK CONSTRUCTION (4") (AE)	651	SQ. YD. △
CONCRETE MEDIAN BARRIER	8,405	LIN. FT. △
STEEL PLATE GUARD FENCE (GALVANIZED)	1,075	LIN. FT. △
REMOVAL OF STEEL PLATE GUARD FENCE	600	LIN. FT. △
ALUMINUM HANDRAIL	886	LIN. FT.
ELECTRIC SERVICE BOX	2	EACH
3 1/2" ELECTRIC CONDUIT (NON-METALLIC)	1096	LIN. FT.
LIGHT TOWER FOOTING	3	EACH
Overhead Sign Truss Footing	6	Each △
FIELD OFFICE & LABORATORY (TYPE A)	3	EACH
2" ELECTRIC CONDUIT (NON-METALLIC)	121	L.F. △
BITUMINOUS PLANT MIX - TEMPORARY SURFACING	1	TON
TEMPORARY SURFACING MATERIAL	1	CU. YD.
MANHOLES (CANAL)	46	EACH
MANHOLES (STORM DRAIN)	4	EACH
MANHOLES (ON RCB)	3	EACH
INLETS (TYPE 10)	11	EACH
INLETS (TYPE 12)	34	EACH
INLETS (TYPE 22)	10	EACH
INLETS (MEDIAN)	10	EACH
INLETS (GUTTER)	9	EACH
INLETS (TYPE I - AREA)	18	EACH
INLETS (TYPE II - AREA)	7	EACH
Pre-Fab Interception Dev. (Type B)	1	Each △
TRAINEES (HIGHWAY CONSTRUCTION) (44)	1	HR.
RESTORATION & MAINTENANCE OF HAUL ROAD	LUMP SUM	L.S.
MOBILIZATION	LUMP SUM	L.S.
TRAFFIC CONTROL	LUMP SUM	L.S.

NOTES: (CONTINUED)

NO DEDUCTION SHALL BE MADE FOR OPENINGS
ONLY 10 3/4" PIPE PILE OR 12" PRESTRESSED PILE WILL BE ALLOWED.

CURBS & GUTTERS SHALL RECEIVE "LINSEED OIL SURFACE TREATMENT". THIS WILL NOT BE PAID FOR DIRECTLY, BUT SHALL BE A SUBSIDIARY ITEM.

SEE SPECIAL PROVISIONS.

NO	DATE	REVISIONS	BY	APP'D
3				
2				
1				

STATE HIGHWAY COMMISSION OF KANSAS

SUMMARY OF QUANTITIES

Sh. 2 of 2

WILSON & COMPANY
ENGINEERS & ARCHITECTS
SALINA KANSAS

DESIGNED SRT-JWW | TRACED | CHECKED RPN

167
64-100J