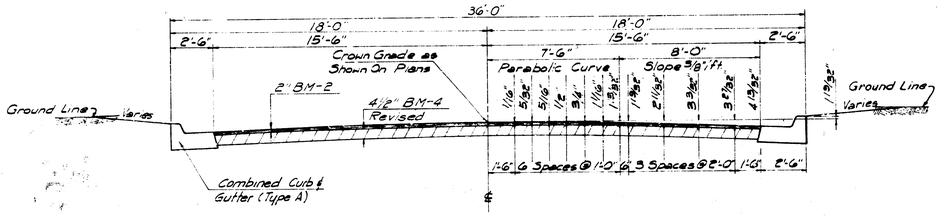
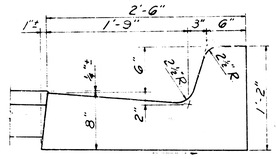
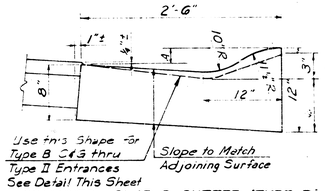


TYPICAL SECTION
HOLLAND LANE

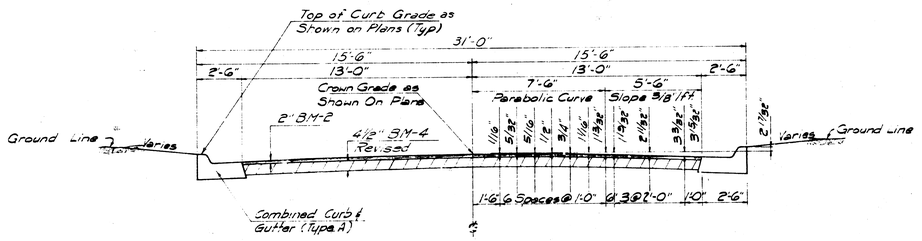


COMBINED CURB & GUTTER (TYPE A)

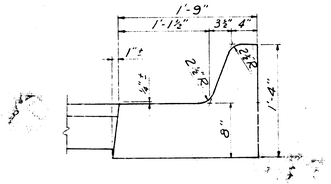
	A
High side of Island	3 3/8"
Low side of Island	1 5/8"



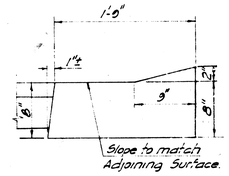
COMBINED CURB & GUTTER (TYPE B)



TYPICAL SECTION
CITY SIDE STREETS



COMBINED CURB & GUTTER (TYPE C)



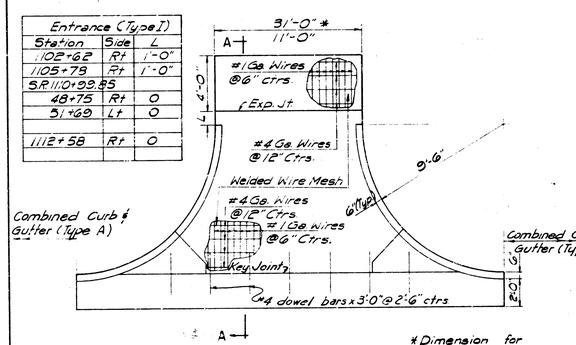
COMBINED CURB & GUTTER (TYPE D)

Note: A 1" premoulded expansion joint filler (Nonextruding Type B) cut to the dimensions of the curb & gutter shall be used at a spacing of not to exceed 250 ft. and at the ends of curb returns.

Plane of weakness in curb & gutter to be constructed at not to exceed 10'-3" intervals. Use Class A concrete (AE) thruout.

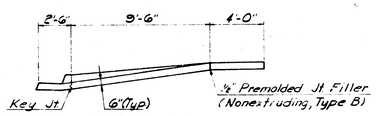
Entrance (Type II)		
℄ Station	Side	W
1085+15	Rt	35'-0"
1089+29	Lt	23'-0"
1101+30	Rt	23'-0"
1104+82	Rt	23'-0"
1108+50	Rt	23'-0"
1110+00	Lt	21'-0"
Side Road Station 99+95		
54+80	Rt	23'-0"
111+75	Lt	23'-0"
113+35	Lt	23'-0"
114+00	Lt	23'-0"

Entrance (Type I)		
Station	Side	L
1102+62	Rt	1'-0"
1105+78	Rt	1'-0"
SR 1110+98.85		
48+75	Rt	0
51+69	Lt	0
1112+58	Rt	0

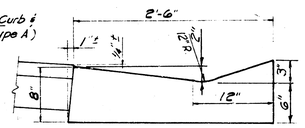


ENTRANCE (TYPE I)
(Reinforced Concrete)

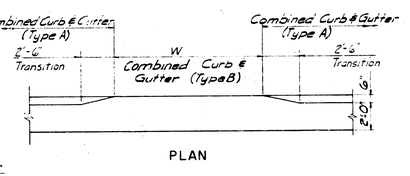
**Dimension for Commercial drives only.*



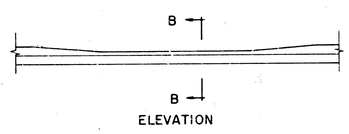
SECTION A-A



SECTION B-B
(Type B C&G thru Type II Entrances)



PLAN



ELEVATION

ENTRANCE (TYPE II)

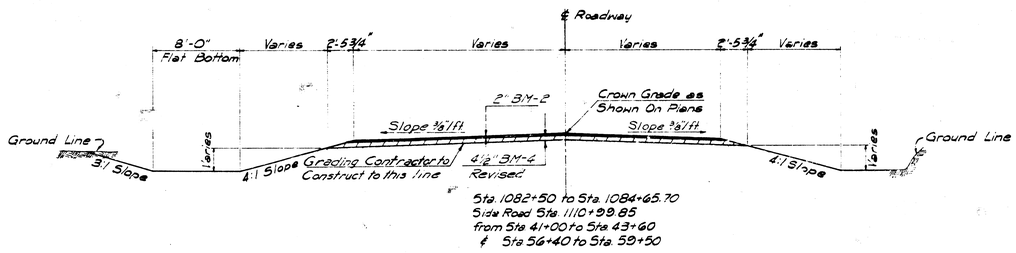
SEDGWICK COUNTY HIGHWAY DEPARTMENT
G.C. McLURE, JR., P.E. COUNTY ENGINEER

TYPICAL SECTIONS

SEDGWICK COUNTY PROJECT 87S-SU-1570(1)

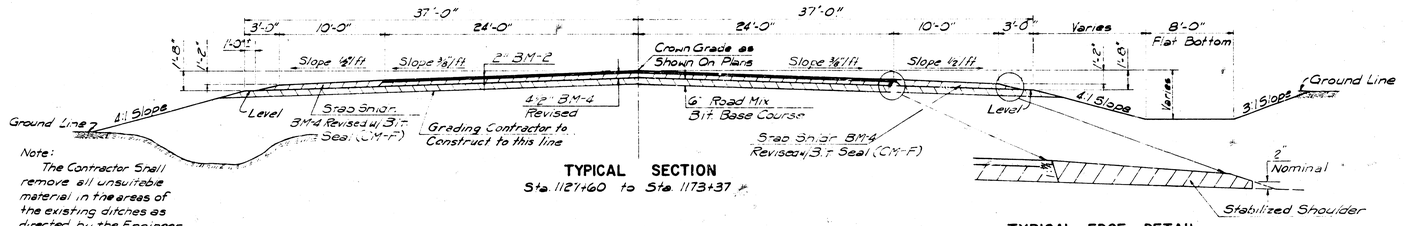
PROFESSIONAL ENGINEERING CONSULTANTS

Designed by
Drawn by
Checked by



Sta. 1082+50 to Sta. 1084+65.70
Side Road Sta's. 1110+99.85
from Sta 41+00 to Sta 43+60
℄ Sta 56+40 to Sta. 59+50

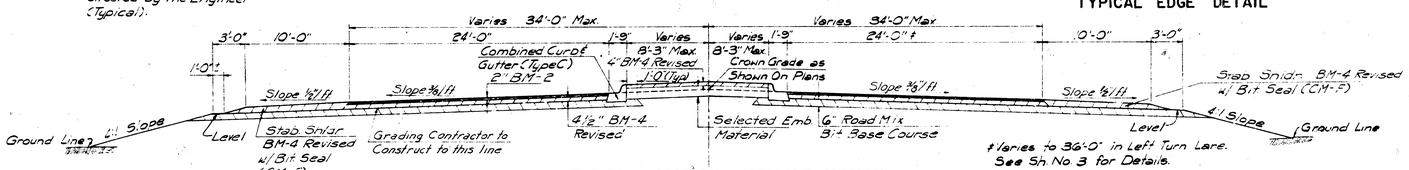
TRANSITION SECTION



Note:
The Contractor Shall remove all unsuitable material in the areas of the existing ditches as directed by the Engineer (Typical).

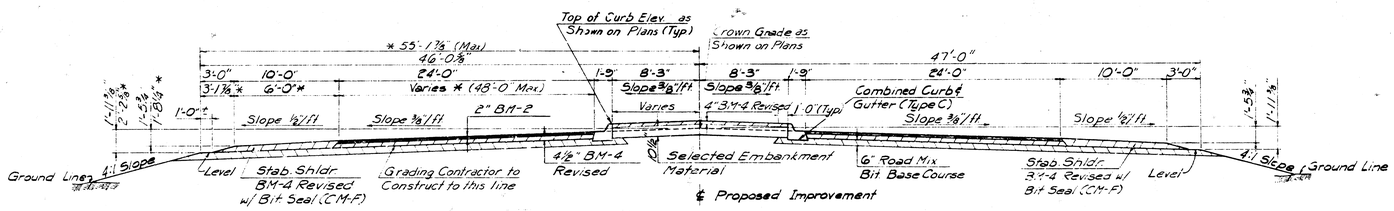
TYPICAL SECTION
Sta. 1127+60 to Sta. 1173+37 ±

TYPICAL EDGE DETAIL



± Varies to 36'-0" in Left Turn Lane.
See Sh. No. 3 for Details.

TYPICAL SECTION VARIABLE MEDIAN
Sta 1173+37 to Sta 1182+38



℄ Proposed Improvement

TYPICAL SECTION
Sta. 1182+38.00 to Sta. 1187+50
* Sta. 1177+43.59 to Sta. 1185+57.59 (Lt Side Only)

See Sh. No. 2 for Compaction.

SEDGWICK COUNTY HIGHWAY DEPARTMENT
G.C. McLURE, JR., P.E. COUNTY ENGINEER

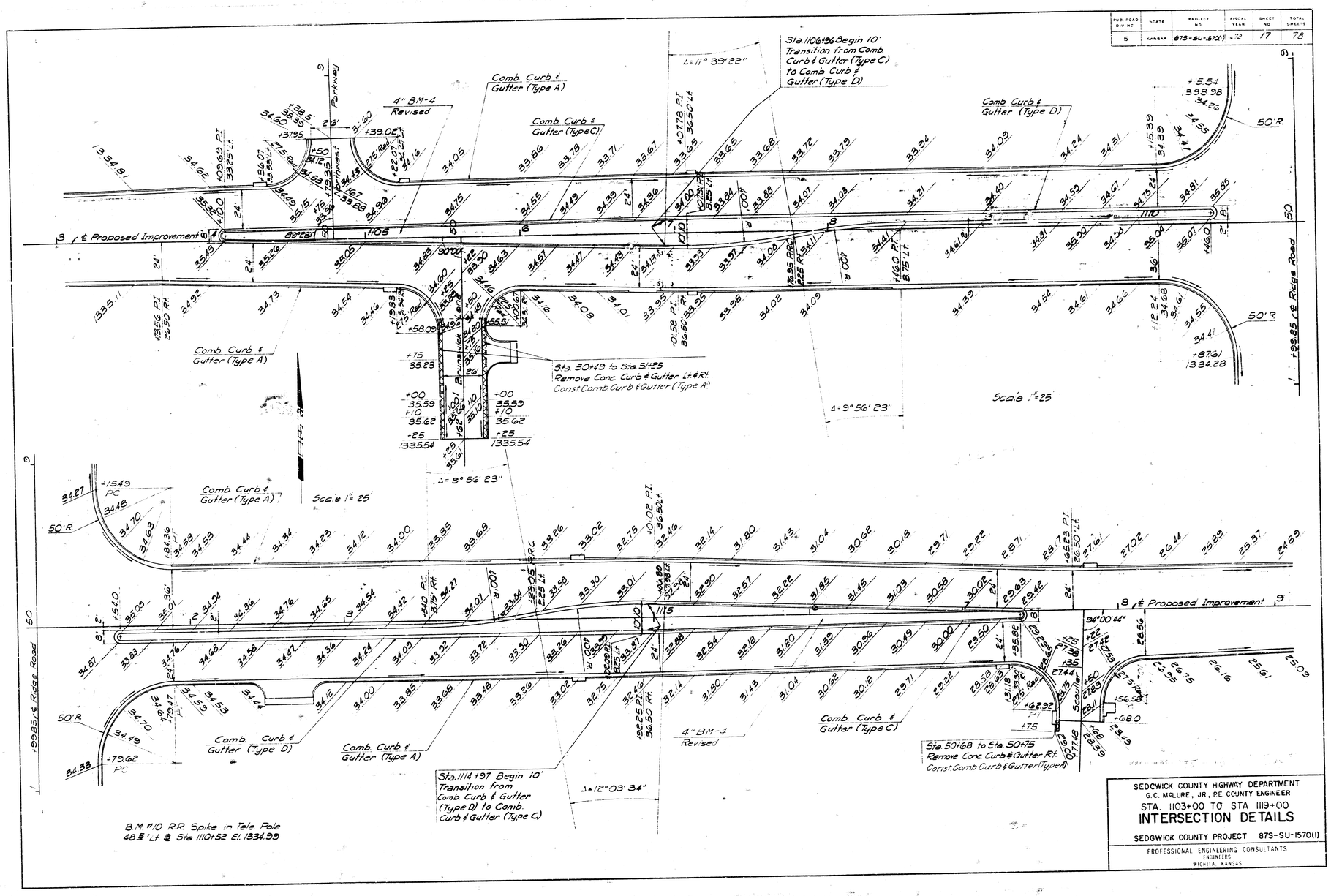
TYPICAL SECTIONS

SEDGWICK COUNTY PROJECT 875-SU-1570(i)

PROFESSIONAL ENGINEERING CONSULTANTS

Designed by
Drawn by
Date

FED. ROAD DIV. NO.	STATE	PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
5	KANSAS	87S-SU-1570(11)	72	17	78



SEDGWICK COUNTY HIGHWAY DEPARTMENT
G.C. McLURE, JR., P.E. COUNTY ENGINEER

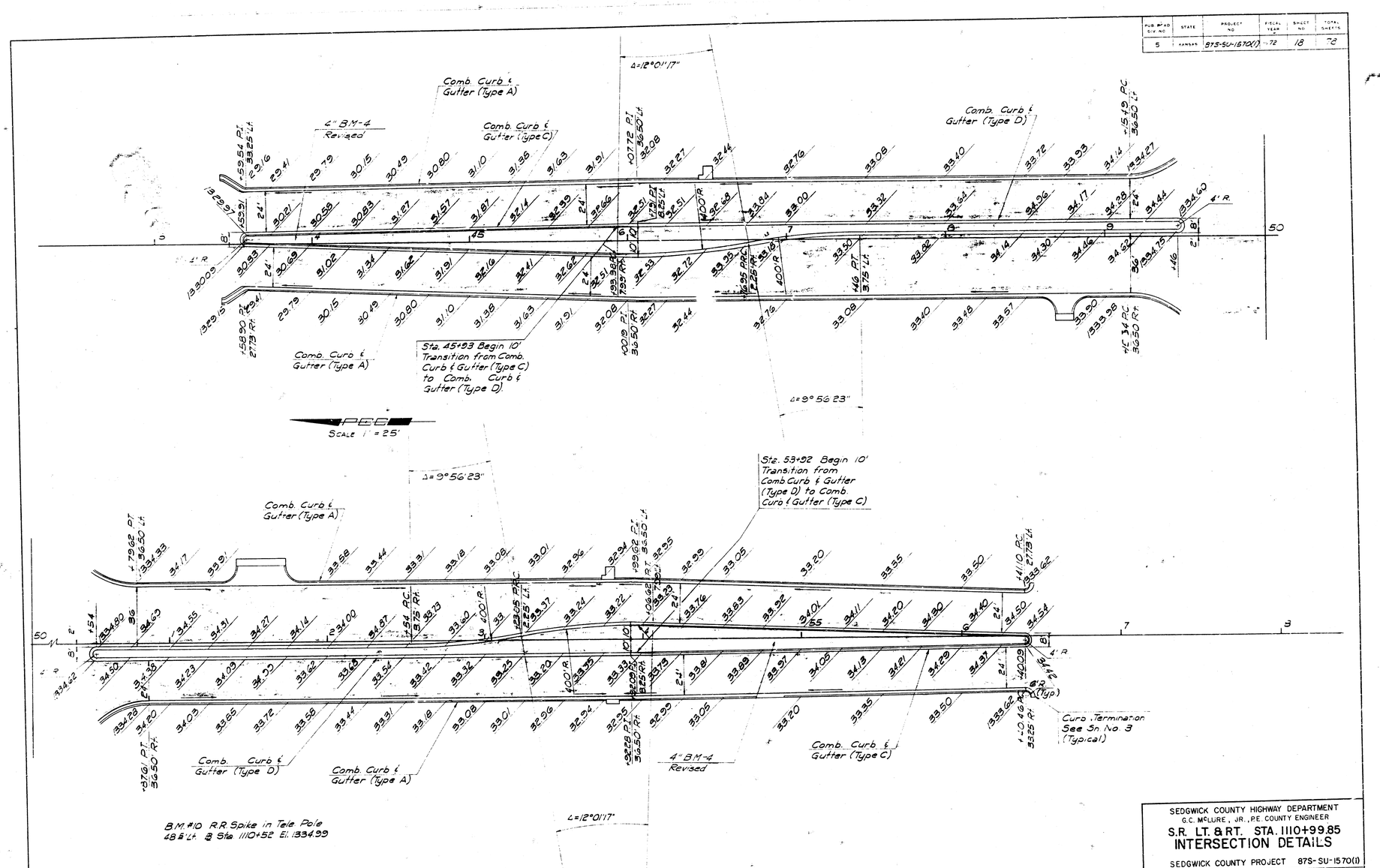
STA. 1103+00 TO STA 1119+00

INTERSECTION DETAILS

SEDGWICK COUNTY PROJECT 87S-SU-1570(11)

PROFESSIONAL ENGINEERING CONSULTANTS
ENGINEERS
WICHITA, KANSAS

PUB. PROJ. NO. C.V. NO.	STATE	PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
5	KANSAS	87S-SU-1570(1)	'72	18	70



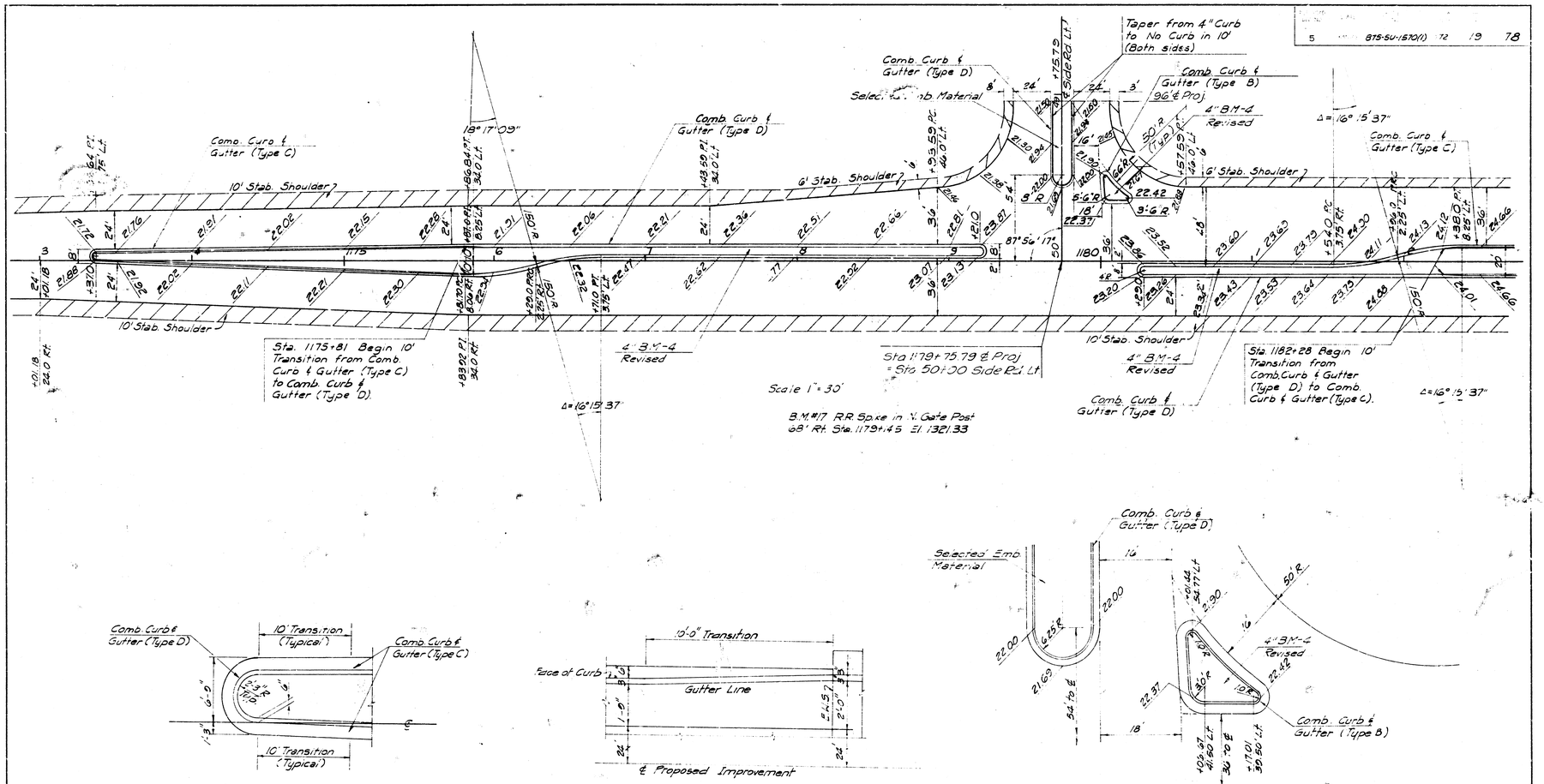
SEDGWICK COUNTY HIGHWAY DEPARTMENT
G.C. McLURE, JR., P.E. COUNTY ENGINEER

S.R. LT. & RT. STA. 1110+99.85 INTERSECTION DETAILS

SEDGWICK COUNTY PROJECT 87S-SU-1570(1)

PROFESSIONAL ENGINEERING CONSULTANTS
ENGINEERS
WICHITA, KANSAS

5 — 81S-SU-1570(1) — 12 — 19 — 78



END OF MEDIAN DETAIL (Typical)

Vertical & Horizontal Transition to match top of bridge curb

CURB & GUTTER TRANSITION DETAIL (Typical)

ISLAND DETAIL

SEDGWICK COUNTY HIGHWAY DEPARTMENT
G.C. McLURE, JR., P.E. COUNTY ENGINEER

INTERSECTION DETAILS

SEDGWICK COUNTY PROJECT 81S-SU-1570(1)

PROFESSIONAL ENGINEERING CONSULTANTS

Checked by: — Date: —

Drawn by: — Date: —

			87S-SU-1570(1)	72	49	78

SUMMARY OF QUANTITIES

ITEM	SURFACING MAINLINE *	SURFACING RIDGE ROAD	SHOULDERS MAINLINE	MEDIANS & ISLANDS		TOTAL	UNITS
SURFACE COURSE							
AGGREGATE FOR BITUMINOUS SURFACE COURSE (BM-2)	8.591.7	1,051.1				7,642.8	TONS
ASPHALT CEMENT (AC-5)	407.8	65.0				472.8	TONS
EMULSIFIED ASPHALT (SS-1H) FOR TACK	25.3	4.0				29.3	TONS
BASE COURSE							
AGGREGATE FOR BITUMINOUS BASE COURSE (BM-4 REVISED)	17,066.1	2,714.6	5,152.7	973.4		25,906.8	TONS
ASPHALT CEMENT (AC-5)	960.5	152.8	290.0	54.8		1,458.1	TONS
EMULSIFIED ASPHALT (SS-1H) FOR TACK	50.5	8.1	11.2			69.8	TONS
WATER (EMULSION DILUTION)						1.0	M. GALS
ROAD MIX BITUMINOUS BASE COURSE							
EMULSIFIED ASPHALT	1,080.9					1,080.9	TONS
MINERAL FILLER*	1,544.1					1,544.1	TONS
BITUMINOUS BASE (6")	53,032					53,032	SQ. YDS.
LIME TREATED SUBGRADE							
HYDRATED LIME	204.3	61.2				265.5	TONS
WATER	244.8	73.3				318.1	M. GALS
MANIPULATION (LIME TREATED SUBGRADE)	27,521	8,245				35,766	SQ. YDS.
BITUMINOUS SEALING							
COVER MATERIAL (CM-F)			90.7			90.7	CU. YDS.
CUTBACK ASPHALT (RC-3000)			13.5			13.5	TONS
MANIPULATION (BITUMINOUS SEAL) SHOULDERS			119.7			119.7	STA.
ASPHALTIC PAVEMENT SAMPLING	37	[illegible]	5			49	EACH
SELECTED EMBANKMENT MATERIAL (VEHICLE MEASUREMENT)				894		894	CU. YDS.

* [illegible] TRANSITION

RATES OF APPLICATION (SHOULDERS)

RATE	UNITS	ITEM	SHOULDER WIDTH	REMARKS
		BASE COURSE		
43.94	TONS/STA.	AGGREGATE FOR BITUMINOUS BASE COURSE (BM-4 REVISED)	10'-0"	
2.473	TONS/STA.	ASPHALT CEMENT (AC-5)		
29.39	TONS/STA.	AGGREGATE FOR BITUMINOUS BASE COURSE (BM-4 REVISED)	6'-0"	AT ACCELERATION OR DECELERATION LANES
1.654	TONS/STA.	ASPHALT CEMENT (AC-5)		
0.10	GALS./SQ.YD.	EMULSIFIED ASPHALT (SS-1H) FOR TACK		
		BITUMINOUS SEALING		
0.777	CU.YDS./STA.	COVER MATERIAL (CM-F)	10'-0"	
27.778	GALS./STA.	CUTBACK ASPHALT (RC-3000)		
0.467	CU.YDS./STA.	COVER MATERIAL (CM-F)	6'-0"	AT ACCELERATION OR DECELERATION LANES
16.667	GALS./STA.	CUTBACK ASPHALT (RC-3000)		
	STA.	MANIPULATION (BITUMINOUS SEAL) SHOULDERS		

NOTES

ROAD MIX BITUMINOUS BASE COURSE:
THE TOP 6" OF IN-PLACE MATERIAL SHALL BE USED FOR THE ROAD MIX BITUMINOUS BASE COURSE WITH THE CONDITION THAT SAID MATERIAL CONTAIN A MINIMUM OF 10% BY DRY WEIGHT OF MINUS 200 MATERIAL. THE SUITABILITY OF THE IN-PLACE MATERIAL SHALL BE DETERMINED IN THE FIELD BY THE ENGINEER.

* MINERAL FILLER:
MINERAL FILLER HAS BEEN INCLUDED IN THE BID QUANTITIES WITH THE STIPULATION THAT IT BE SUBJECT TO AN UNDERRUN UP TO 100%. NO ADJUSTMENT IN BID PRICE WILL BE MADE FOR UNDERRUN OF THE BID ITEM MINERAL FILLER.

MINERAL FILLER FOR ROAD MIX BITUMINOUS BASE COURSE SHALL BE IN ACCORDANCE WITH SPECIAL PROVISION 66P-612 OF THE KHC STANDARD SPECIFICATIONS.

ADDITIONAL TACK COATS:
AN ADDITIONAL TACK COAT OF EMULSIFIED ASPHALT (SS-1H) SHALL BE PROVIDED BETWEEN EACH LIFT OF THE (SURFACE OR BASE) WHEN SO ORDERED BY THE ENGINEER AND AT THE RATE DESIGNATED BY HIM. QUANTITIES FOR THESE TACKS HAVE BEEN COMPUTED AT 0.000416 TON PER SQ.YD.

RATES OF APPLICATION (SURFACING)

RATE	UNITS	ITEM	THICKNESS	TOP WIDTH	BOTTOM WIDTH	REMARKS
		SURFACE COURSE				
57.98	TONS/STA.	AGGREGATE FOR BITUMINOUS SURFACE COURSE (BM-2)	2"	48'-0"	47'-11-1/2"	CURB & GUTTER BOTH SIDES
3.587	TONS/STA.	ASPHALT CEMENT (AC-5)				
58.05	TONS/STA.	AGGREGATE FOR BITUMINOUS SURFACE COURSE (BM-2)	2"	48'-0"	48'-1"	BITUMINOUS SHOULDERS BOTH SIDES
3.591	TONS/STA.	ASPHALT CEMENT (AC-5)				
28.97	TONS/STA.	AGGREGATE FOR BITUMINOUS SURFACE COURSE (BM-2)	2"	24'-0"	23'-11-1/2"	MEDIAN TO CURB & GUTTER
1.792	TONS/STA.	ASPHALT CEMENT (AC-5)				
29.01	TONS/STA.	AGGREGATE FOR BITUMINOUS SURFACE COURSE (BM-2)	2"	24'-[illegible]	24'-0-1/4"	MEDIAN TO BITUMINOUS SHOULDER
1.795	TONS/STA.	ASPHALT CEMENT (AC-5)				
14.50	TONS/STA.	AGGREGATE FOR BITUMINOUS SURFACE COURSE (BM-2)	2"	12'-0"		ACCELERATION-DECELERATION OR LEFT TURN LANE
0.897	TONS/STA.	ASPHALT CEMENT (AC-5)				
0.10	GALS./SQ.YD.	EMULSIFIED ASPHALT (SS-1H) FOR TACK				
		BASE COURSE				
149.80	TONS/STA.	AGGREGATE FOR BITUMINOUS BASE COURSE (BM-4 REVISED)	4-1/2"	47'-11-1/2"	47'-10-3/8"	CURB & GUTTER BOTH SIDES
8.431	TONS/STA.	ASPHALT CEMENT (AC-5)				
150.63	TONS/STA.	AGGREGATE FOR BITUMINOUS BASE COURSE (BM-4 REVISED)	4-1/2"	48'-1"	48'-3-1/4"	BITUMINOUS SHOULDERS BOTH SIDES
8.477	TONS/STA.	ASPHALT CEMENT (AC-5)				
74.76	TONS/STA.	AGGREGATE FOR BITUMINOUS BASE COURSE (BM-4 REVISED)	4-1/2"	23'-11-1/2"	23'-10-3/8"	MEDIAN TO CURB & GUTTER
4.208	TONS/STA.	ASPHALT CEMENT (AC-5)				
75.17	TONS/STA.	AGGREGATE FOR BITUMINOUS BASE COURSE (BM-4 REVISED)	4-1/2"	24'-0-1/4"	24'-0-13/16"	MEDIAN TO BITUMINOUS SHOULDER
4.231	TONS/STA.	ASPHALT CEMENT (AC-5)				
37.52	TONS/STA.	AGGREGATE FOR BITUMINOUS BASE COURSE (BM-4 REVISED)	4-1/2"	12'-0"	12'-0"	ACCELERATION-DECELERATION OR LEFT TURN LANE
2.112	TONS/STA.	ASPHALT CEMENT (AC-5)				
0.10	GALS./SQ.YD.	EMULSIFIED ASPHALT (SS-1H) FOR TACK				
		ROAD MIX BITUMINOUS BASE COURSE				
16.807	TONS/STA.	EMULSIFIED ASPHALT	8"	72'-1-1/4"	76'-1-1/4"	WITHOUT MEDIAN
24.01	TONS/STA.	MINERAL FILLER*				
823.38	SQ.YDS./STA.	BITUMINOUS BASE (6")				
9.083	TONS/STA.	EMULSIFIED ASPHALT	6"	38'-9-5/6"	41'-3-5/8"	MEDIAN TO SHOULDER
12.98	TONS/STA.	MINERAL FILLER*				
445.02	SQ.YDS./STA.	BITUMINOUS BASE (6")				
2.722	TONS/STA.	EMULSIFIED ASPHALT	6"	12'-0"	12'-0"	LEFT TURN LANE
3.89	TONS/STA.	MINERAL FILLER*				
133.33	SQ.YDS./STA.	BITUMINOUS BASE (6")				
1.942	TONS/STA.	EMULSIFIED ASPHALT	6"	8'-6-3/4"	8'-6-3/4"	ACCELERATION OR DECELERATION LANE
2.77	TONS/STA.	MINERAL FILLER*				
95.14	SQ.YDS./STA.	BITUMINOUS BASE (6")				
		LIME TREATED SUBGRADE				
4.58	TONS/STA.	HYDRATED LIME	6"	55'-0"	56'-0"	CURB & GUTTER BOTH SIDES
5486.56	GALS/STA.	WATER				
2.54	TONS/STA.	HYDRATED LIME	6"	30'-3"	31'-3"	MEDIAN TO CURB & GUTTER
3039.85	GALS/STA.	WATER				
0.99	TONS/STA.	HYDRATED LIME	6"	12'-0"	12'-0"	ACCELERATION-DECELERATION OR LEFT TURN LANE
1186.28	GALS/STA.	WATER				
	SQ.YDS.	MANIPULATION (LIME TREATED SUBGRADE)	6"	VARIES	VARIES	

AGGREGATE FOR BITUMINOUS SURFACE COURSE (BM-2) HAS BEEN COMPUTED AT THE RATE OF 145 LBS./CU.FT. (TOTAL MIX - AGGREGATE & ASPHALT). ASPHALT CEMENT (AC-5) HAS BEEN COMPUTED AT THE RATE OF 6½ % BY DRY WEIGHT OF AGGREGATE.

AGGREGATE FOR BITUMINOUS BASE COURSE (BM-4 REVISED) HAS BEEN COMPUTED AT THE RATE OF 145 LBS./CU.FT. (TOTAL MIX - AGGREGATE & ASPHALT). ASPHALT CEMENT (AC-5) HAS BEEN COMPUTED AT THE RATE OF 6% BY DRY WEIGHT OF AGGREGATE.

DENSITY OF THE ROAD MIX BITUMINOUS BASE COURSE HAS BEEN ASSUMED AT 120 LBS./CU.FT. (DRY WEIGHT - AGGREGATE & MINERAL FILLER). THE ROADBED MATERIAL IN PLACE IS TO BE USED FOR AGGREGATE. MINERAL FILLER* HAS BEEN COMPUTED AT THE RATE OF 10% BY DRY WEIGHT. EMULSIFIED ASPHALT HAS BEEN COMPUTED AT THE RATE OF 7% BY DRY WEIGHT.

DENSITY OF THE LIME TREATED SUBGRADE HAS BEEN ASSUMED AT 110 LBS./CU.FT. (DRY WEIGHT - AGGREGATE & LIME). HYDRATED LIME HAS BEEN COMPUTED AT THE RATE OF 3% BY DRY WEIGHT. WATER HAS BEEN COMPUTED AT THE RATE OF 15% BY DRY WEIGHT.

COVER MATERIAL (CM-F) HAS BEEN COMPUTED AT THE RATE OF 0.007 CU.YDS./SQ.YD. CUTBACK ASPHALT (RC-3000) HAS BEEN COMPUTED AT THE RATE OF 0.25 GAL./SQ.YD.

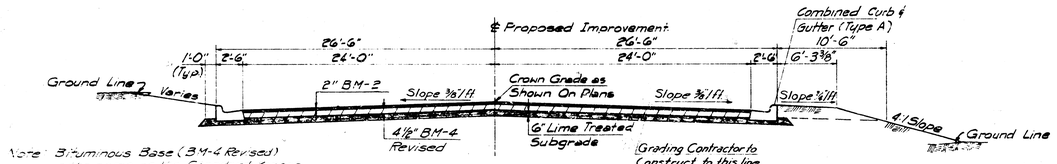
SELECTED EMBANKMENT MATERIAL SHALL BE OBTAINED FROM THE BORROW AREA AS NOTED ON SHEETS NO. 11 AND 12 AS APPROVED BY THE ENGINEER.

RATES AND QUANTITIES FOR BITUMINOUS BASE COURSES HAVE BEEN INCREASED FOR CONTINGENCIES (8%-6" BASE. 15%-4½" BASE. 9%-SHOULDERS).

SEDGWICK COUNTY HIGHWAY DEPARTMENT
G. C. McLURE JR., P.E. COUNTY ENGINEER

SURFACING RATES AND QUANTITIES

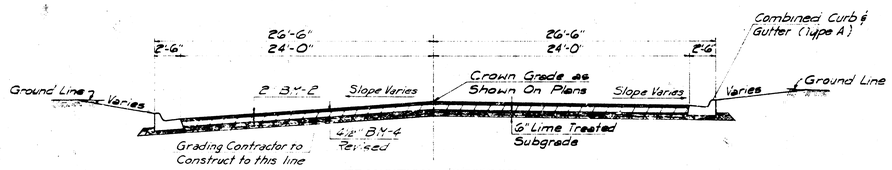
SEDGWICK COUNTY PROJECT 87S-SU-1570(1)



Note: Bituminous Base (B.M.-4 Revised) is the same as the Standard Kansas Highway Commission Bituminous Base (B.M.-4) mix except M.F.S.-3 (S.I.) type mineral filler will not be permitted.

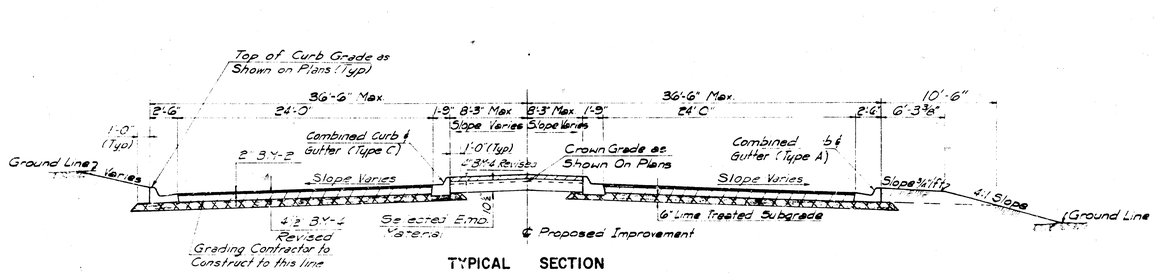
TYPICAL SECTION

Sta. 1084+6.570 to Sta 1089+50
Sta 1122+00 to Sta. 1127+60



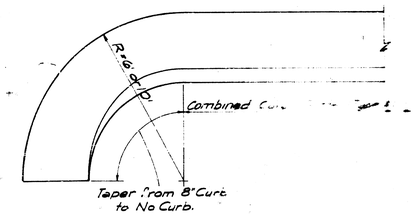
TRANSITION SECTION

Sta 1089+50 to Sta 1104+10
Sta 1117+35.82 to Sta 1122+00

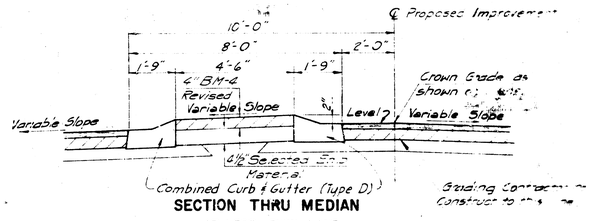


TYPICAL SECTION
WITH MEDIAN

Sta 1104+10 to Sta. 1117+35.82
Side Road Sta .110 + 99.85
From Sta 45+59.91 to Sta 56+40.09



CURB & GUTTER
TERMINATION DETAILS



SECTION THRU MEDIAN
AT LEFT TURN LANE

Sta. 1107+07.78 to Sta 1110+46

Side Road Sta 1110+99.85
From Sta 46+07.9 to Sta 49+46
From Sta. 50+54. to Sta. 53+92.09

Sta. 1111+54 to Sta 1114+92.09

See Sh. No 2 for Compass

SEDGWICK COUNTY
G.C. McLURE, JR., P.E.

TYPICAL SECTIONS

SEDGWICK COUNTY PROJECT

PROFESSIONAL ENGINEER

Designed by
Drawn by