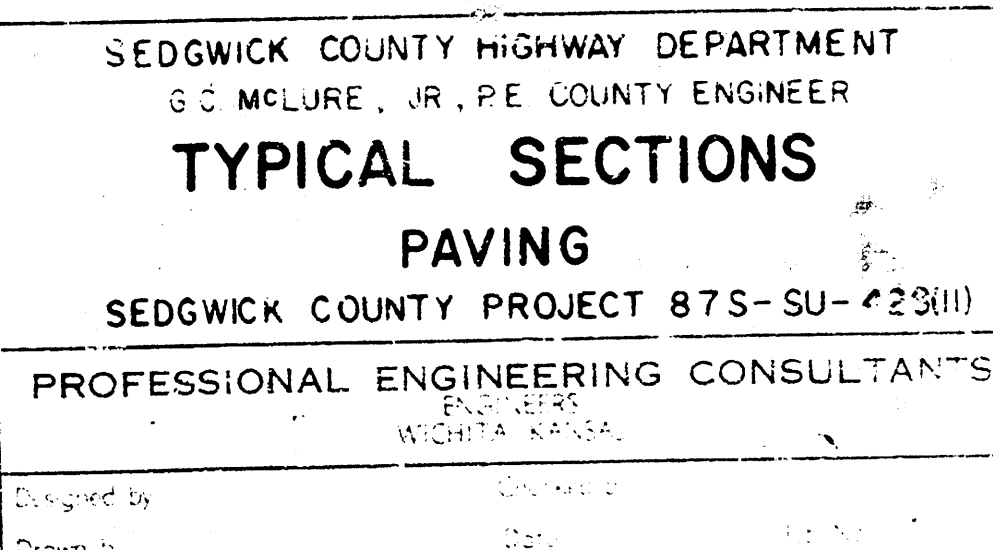
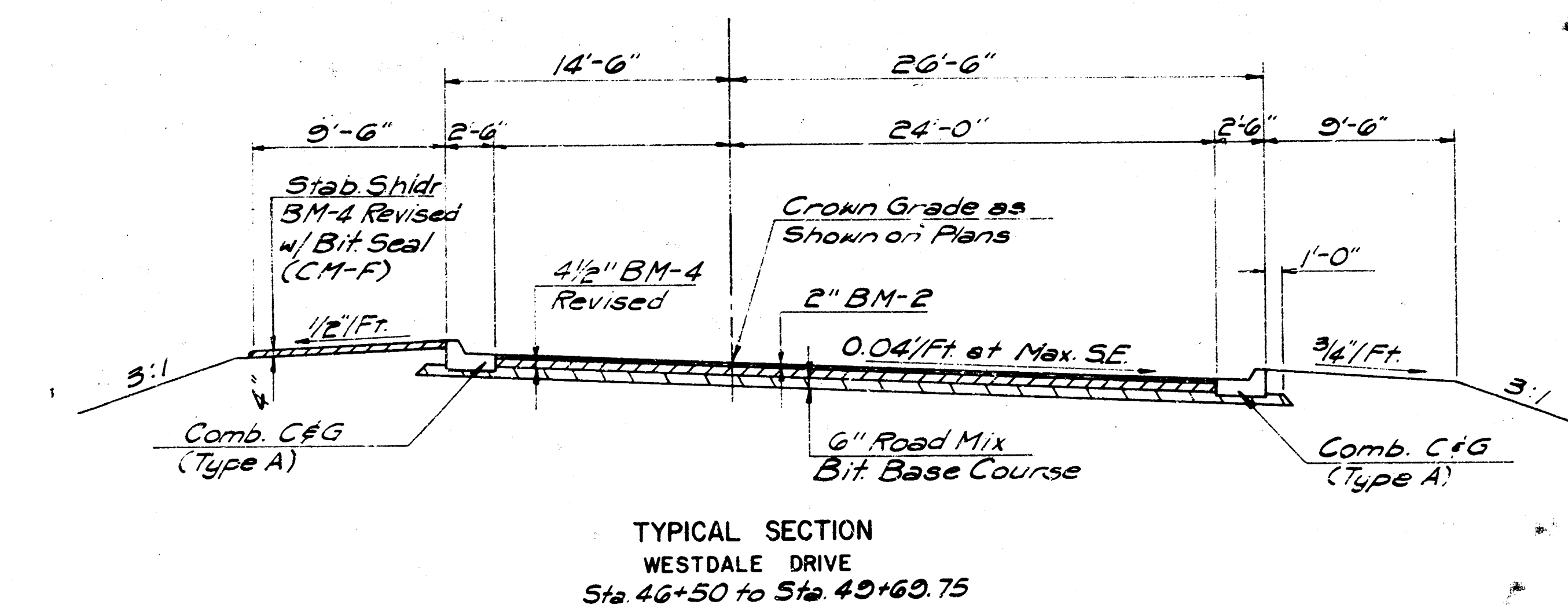
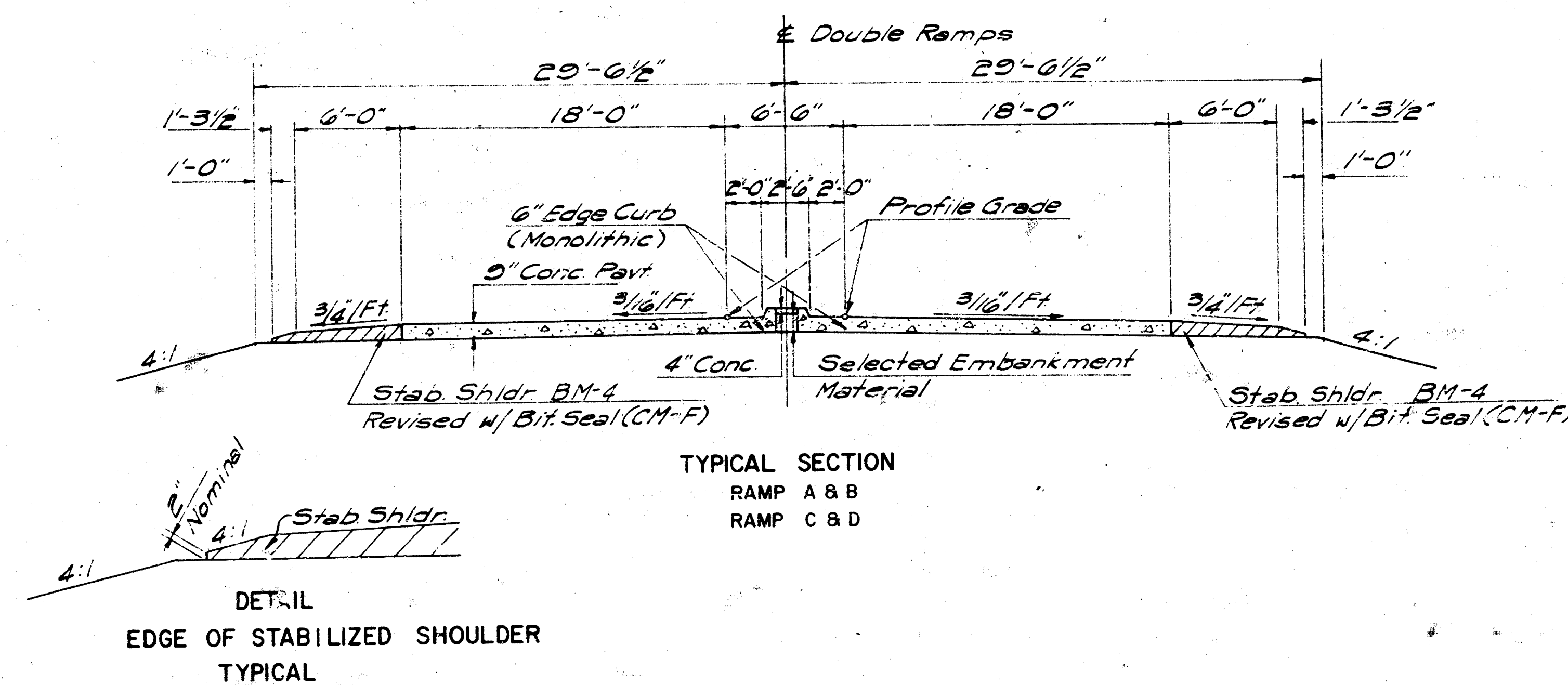
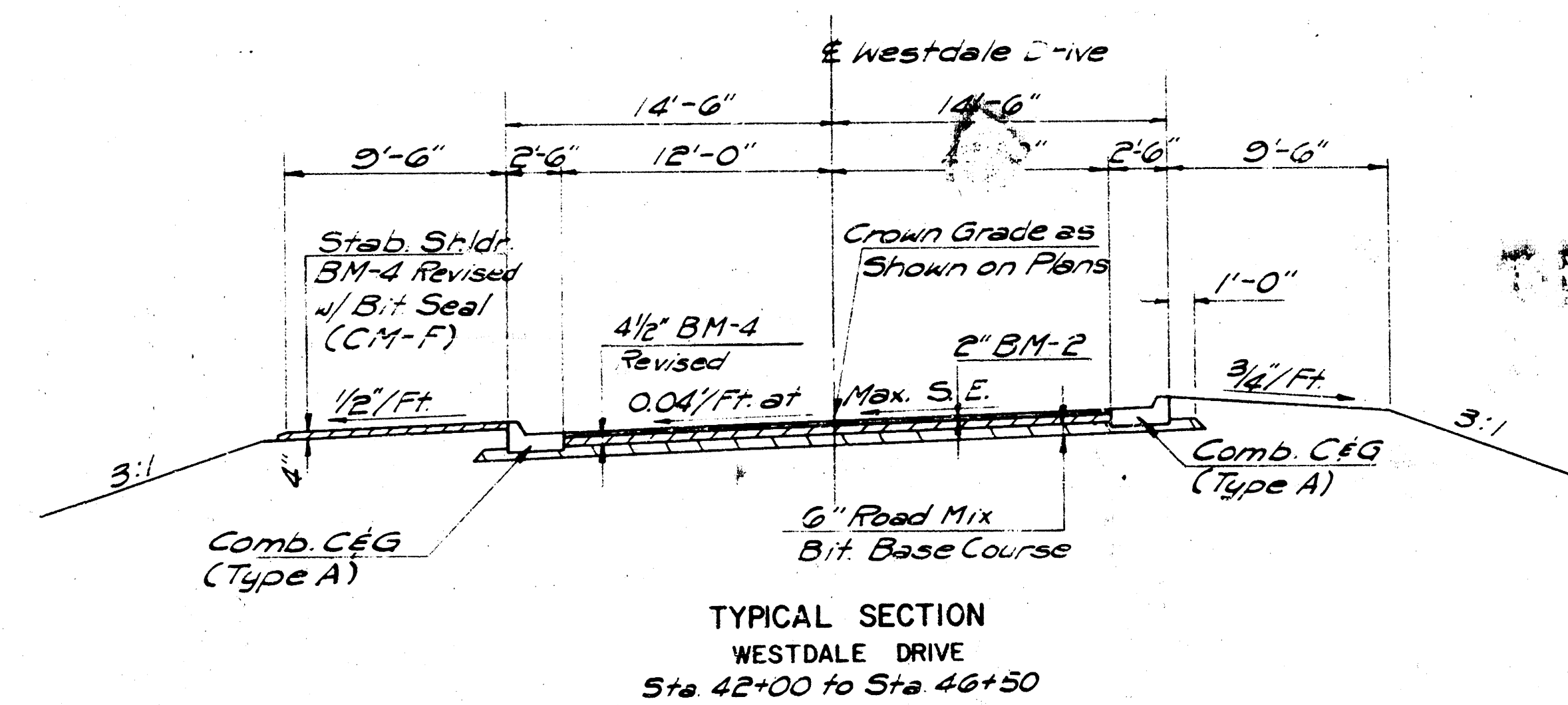
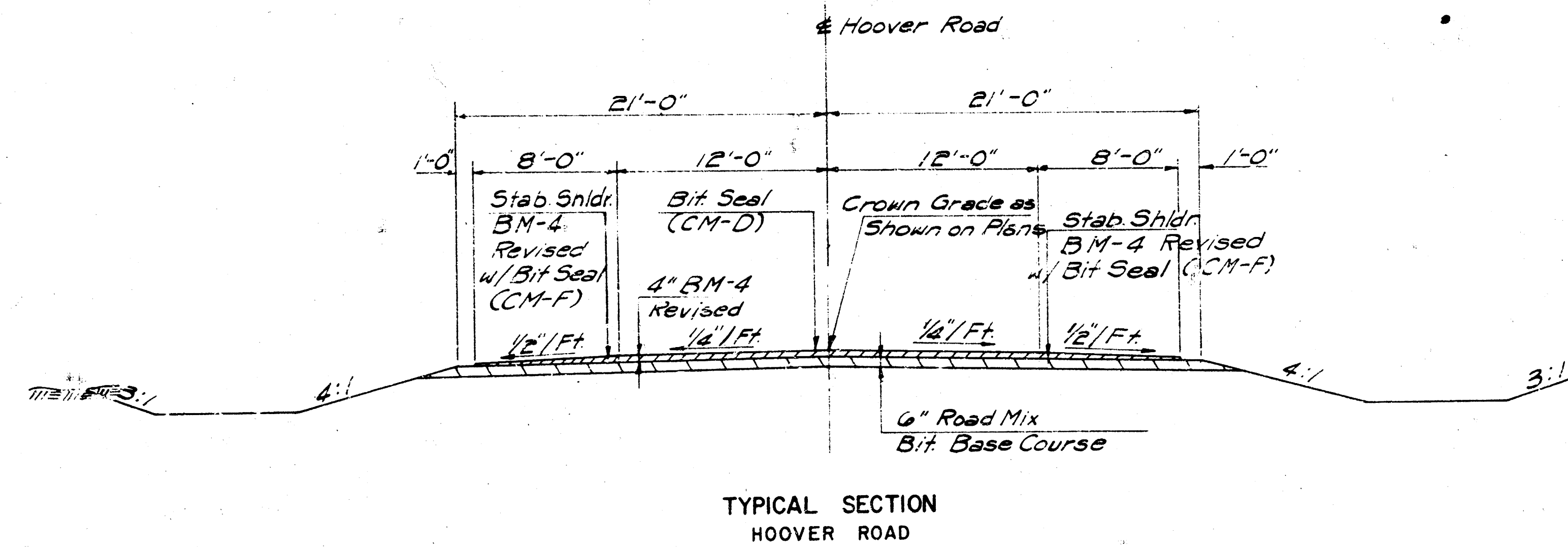
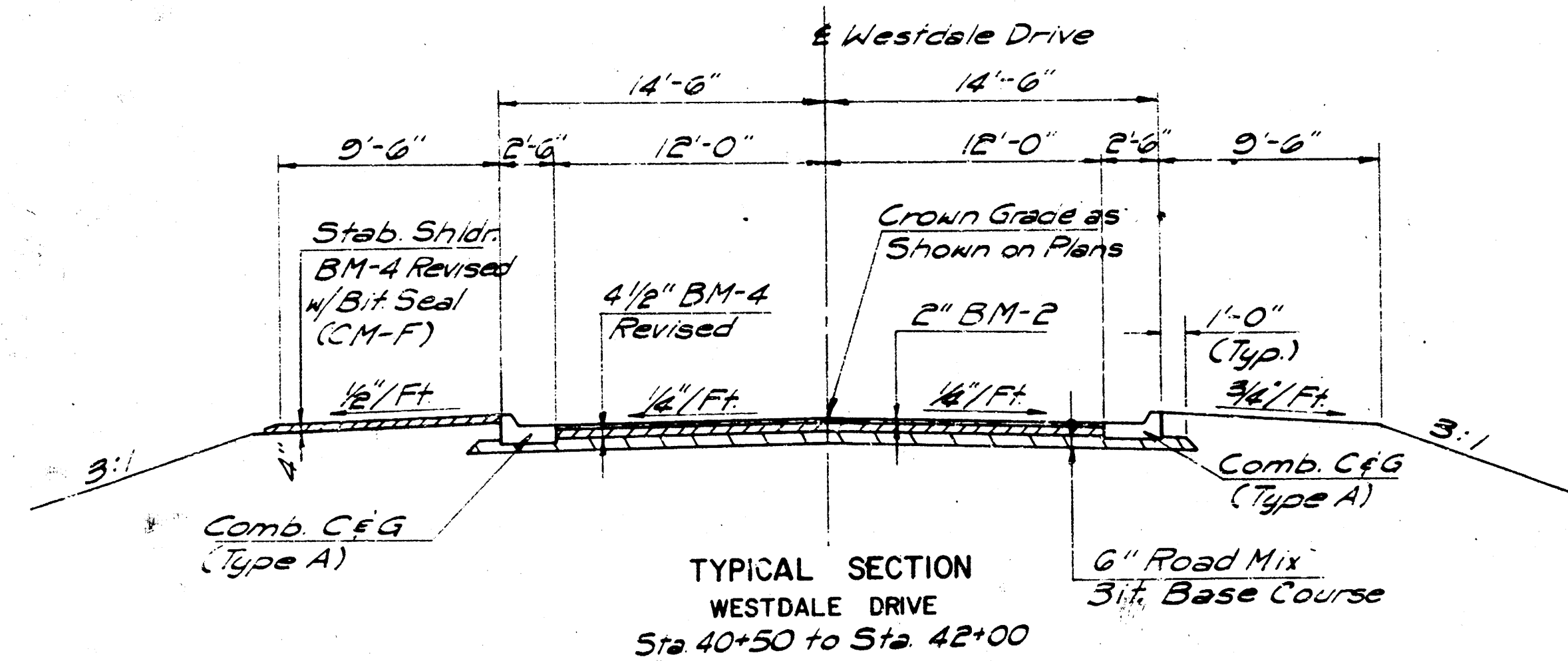
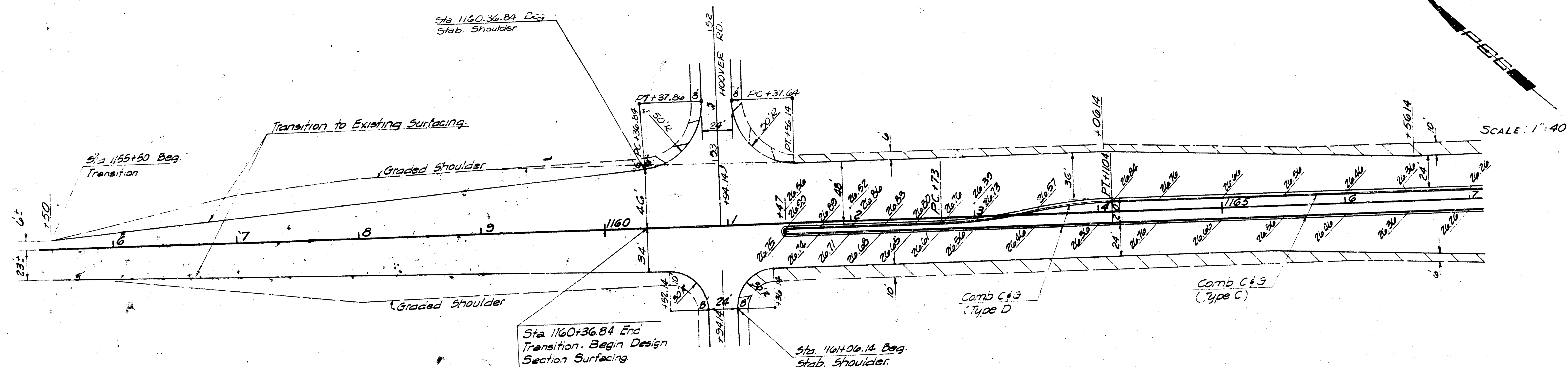






SEDGWICK COUNTY HIGHWAY DEPARTMENT
G.C. MULLER, JR., P.E. COUNTY ENGINEER
TYPICAL SECTIONS
SIDE ROADS-PAVING & SURFACING
SEDGWICK COUNTY PROJECT 875-SU-428(II)
PROFESSIONAL ENGINEERING CONSULTANTS
Drawn by: [Signature]
Checked by: [Signature]

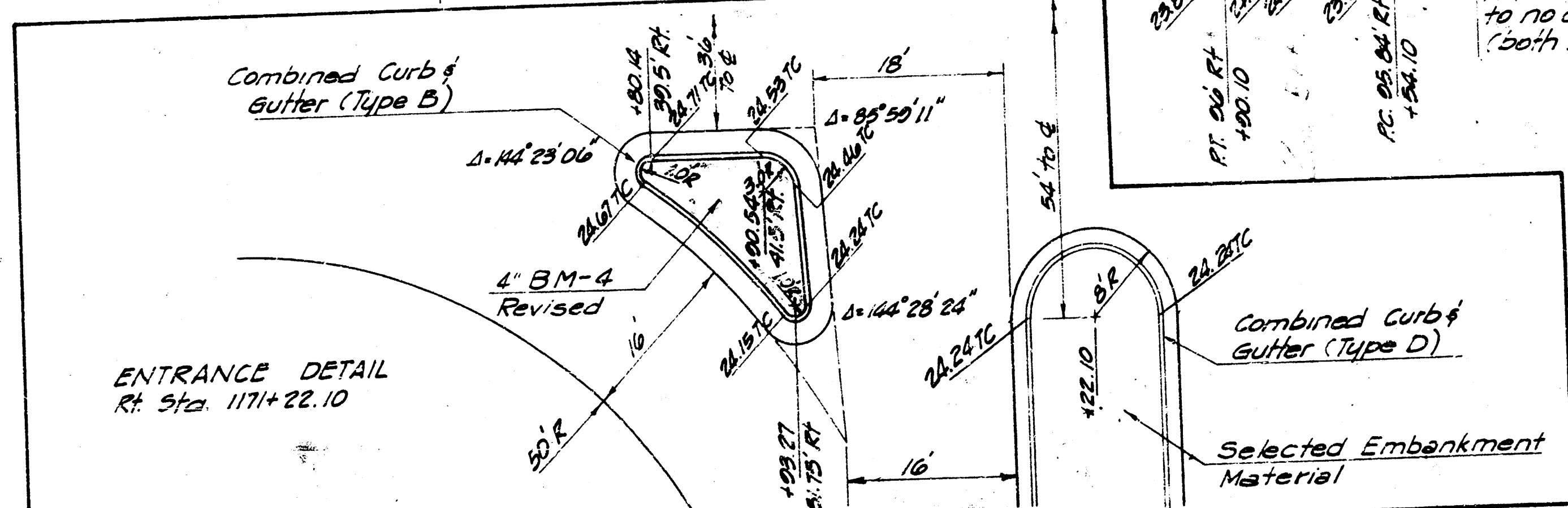
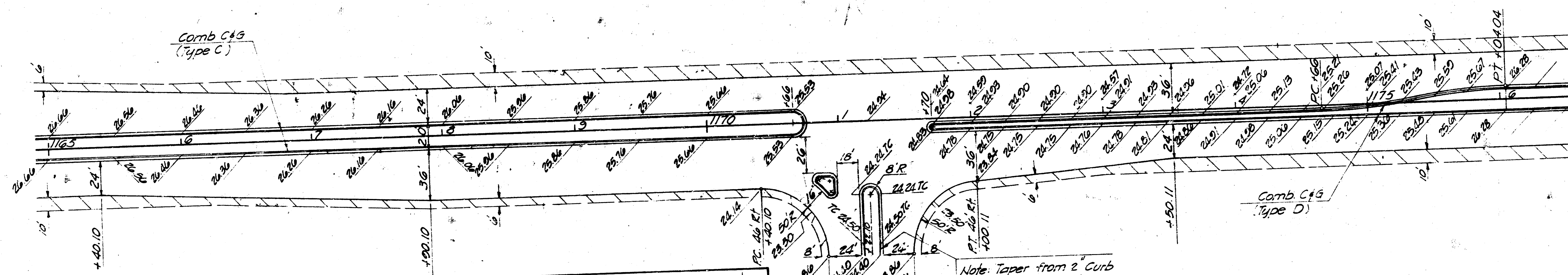
PUB. ROAD DIV. NO.	STATE	PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
5	KANSAS	87S-SU-428(III)	72	21	72



Note: Entrances are to be surfaced as shown on the plans with 6" B.M.-4 Revised and 2" B.-1-2. The subgrade is to be stabilized through the entrances on the shoulder line with 6" Road Mix Bituminous Base Course.

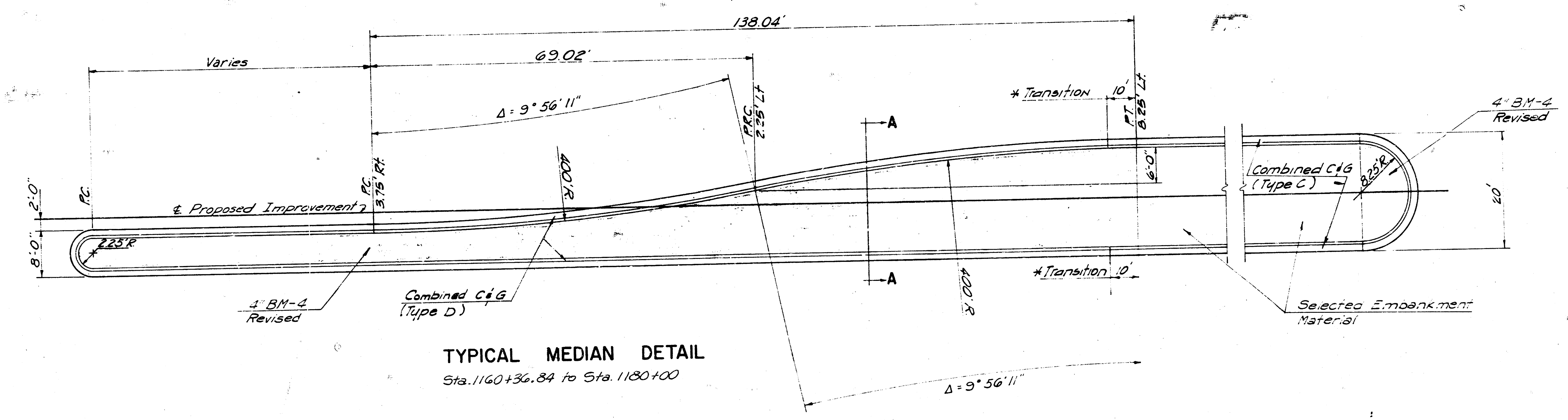
See Sheet No. 28 for Typical Median Details

B.M. #34 Chis. D. on Schwik. @ southern most cor. of Blg. 173 Rt. @ Sta. 1162+80 El. 1325.70.



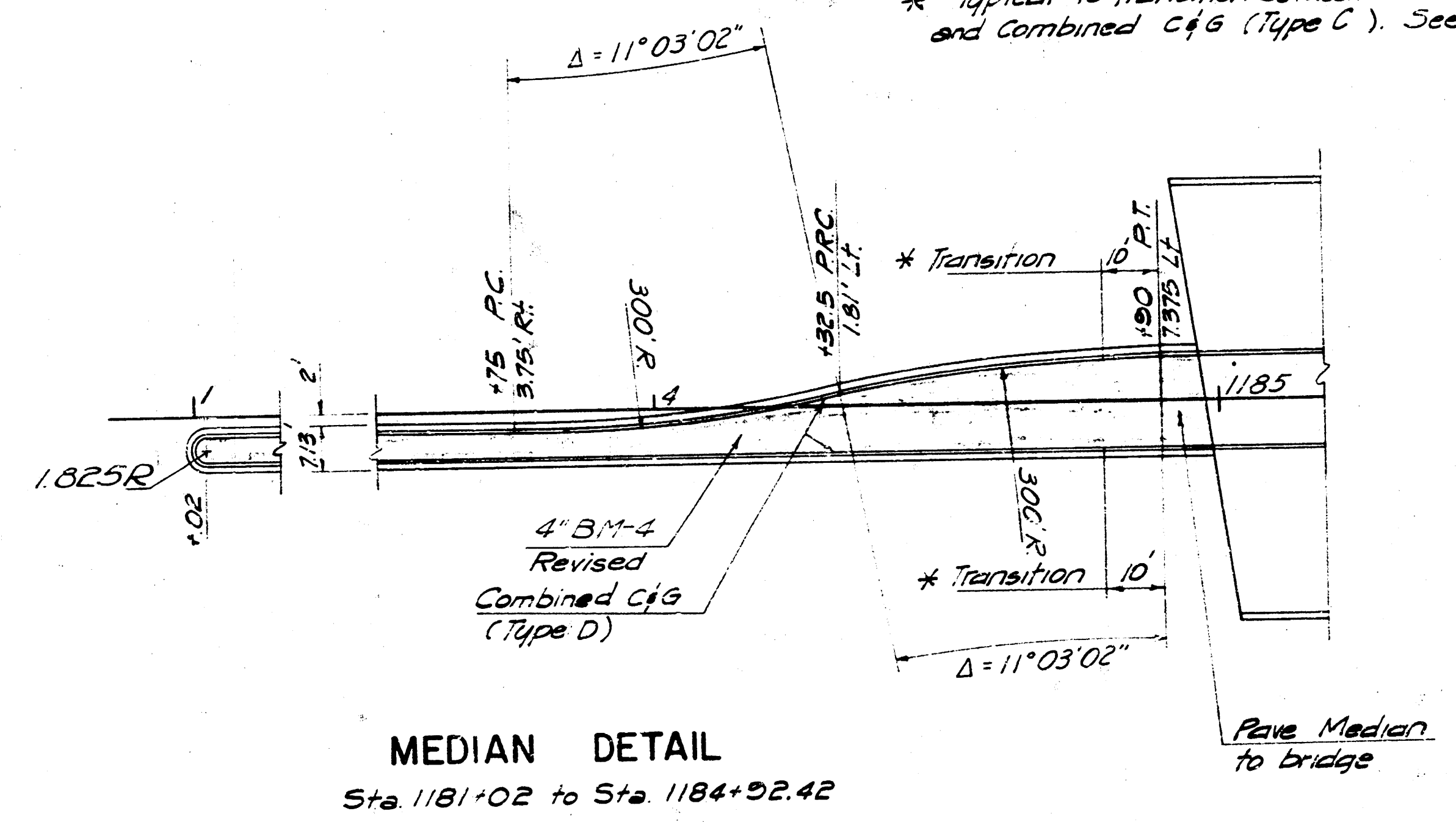
Note: Taper from 2' Curb to no curb in 10 ft. (both sides)

SEDGWICK COUNTY HIGHWAY DEPARTMENT
G.C. MCLURE, JR., P.E. COUNTY ENGINEER
SURFACING PLAN
Sta. 1155+50 to Sta. 1176+04.04
SEDGWICK COUNTY PROJECT 87S-SU-428(III)
PROFESSIONAL ENGINEERING CONSULTANTS
ENGINEERS
WICHITA, KANSAS



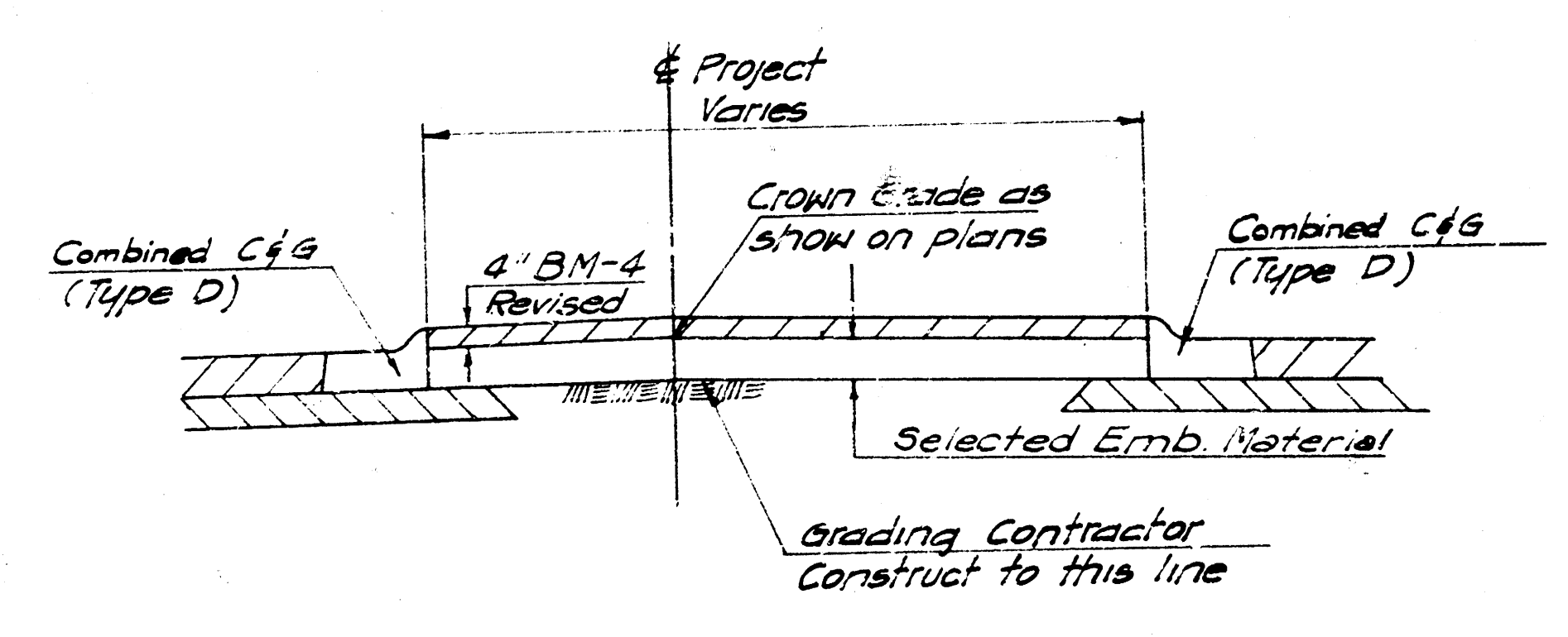
TYPICAL MEDIAN DETAIL
Sta. 1160+36.84 to Sta. 1180+00

* Typical 10' transition between Combined C&G (Type D) and Combined C&G (Type C). See Sh. No. 23

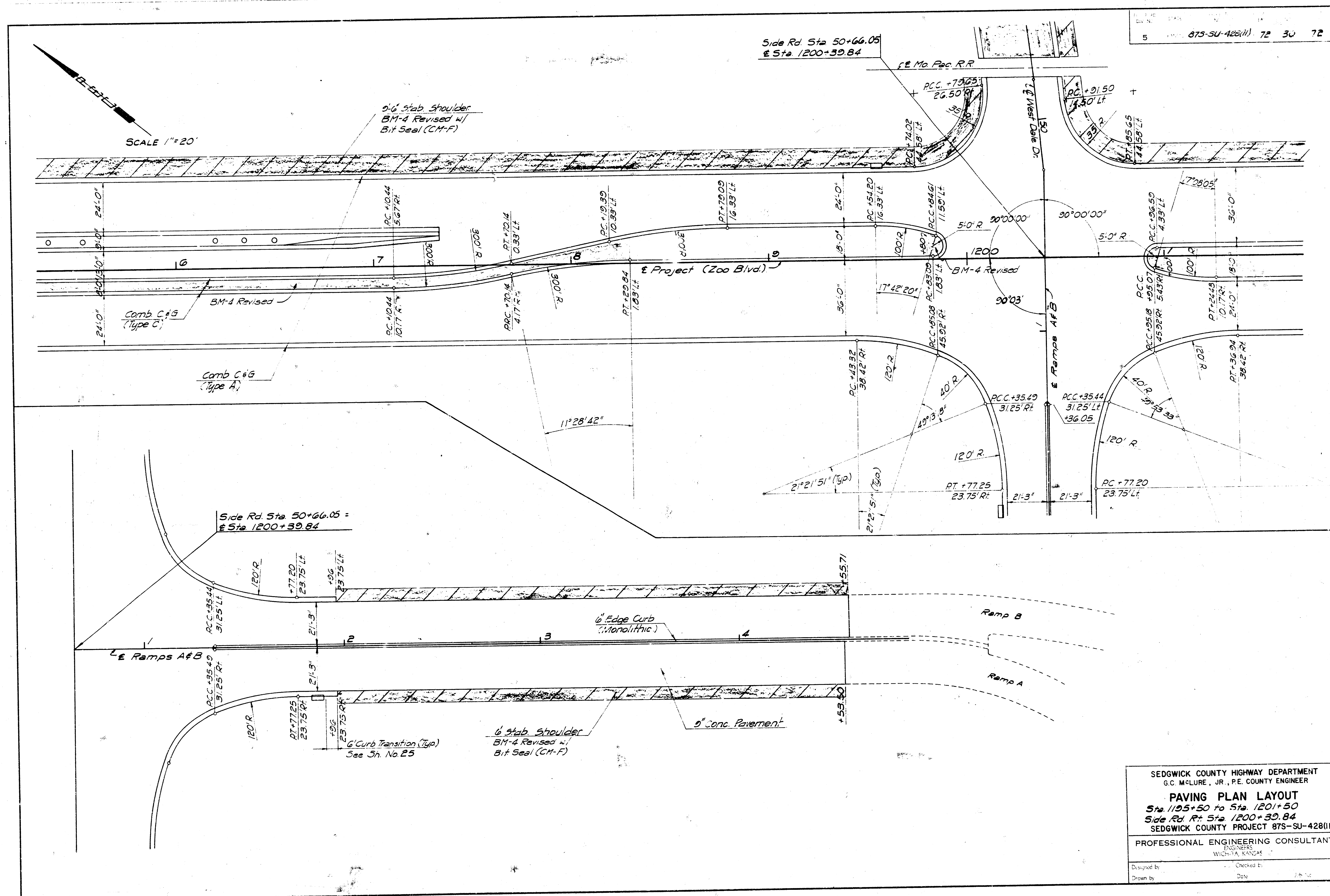


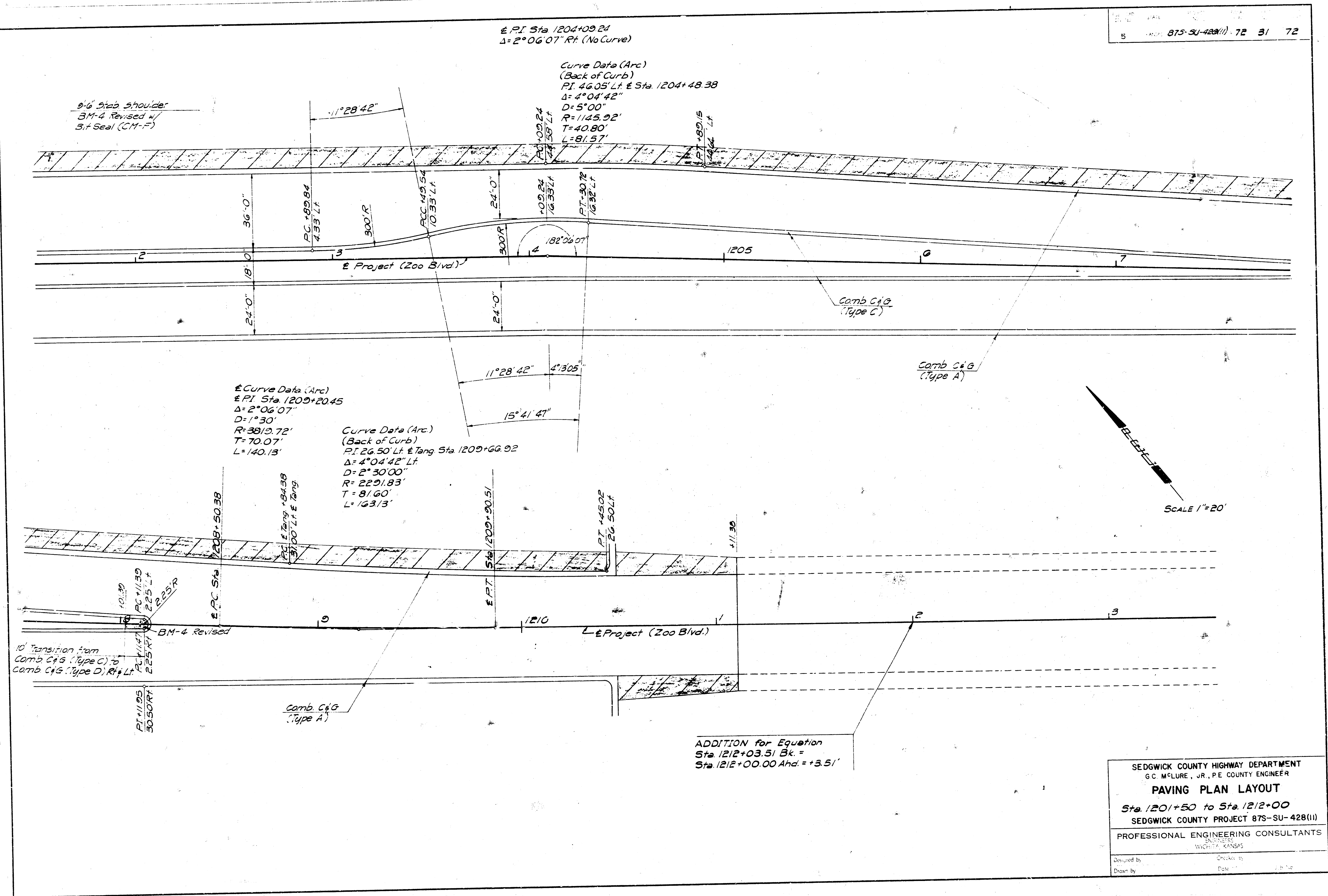
MEDIAN DETAIL
Sta. 1181+02 to Sta. 1184+92.42

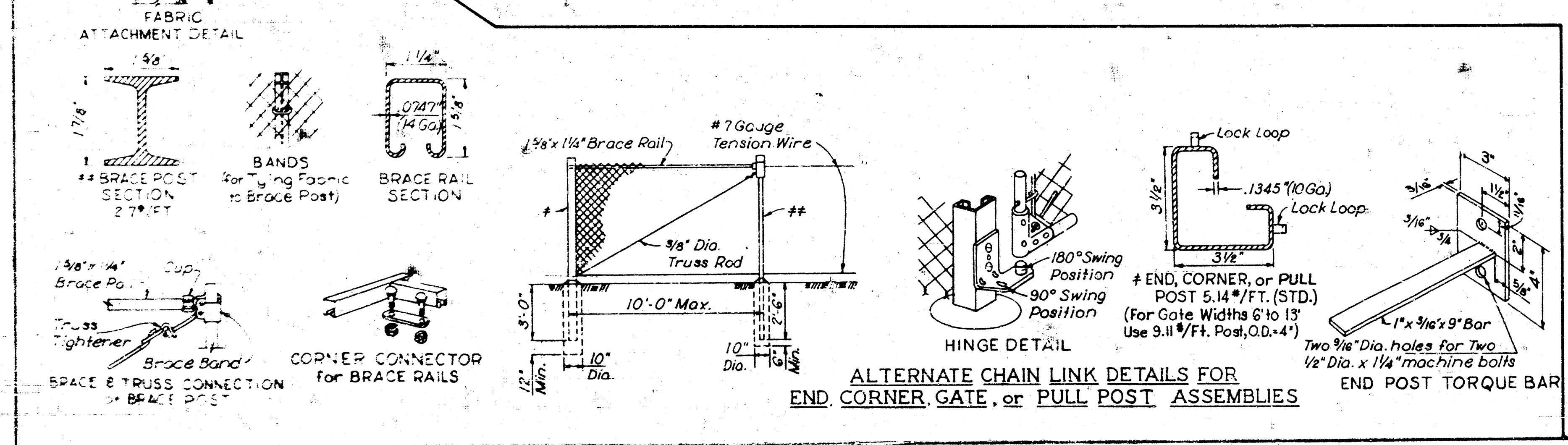
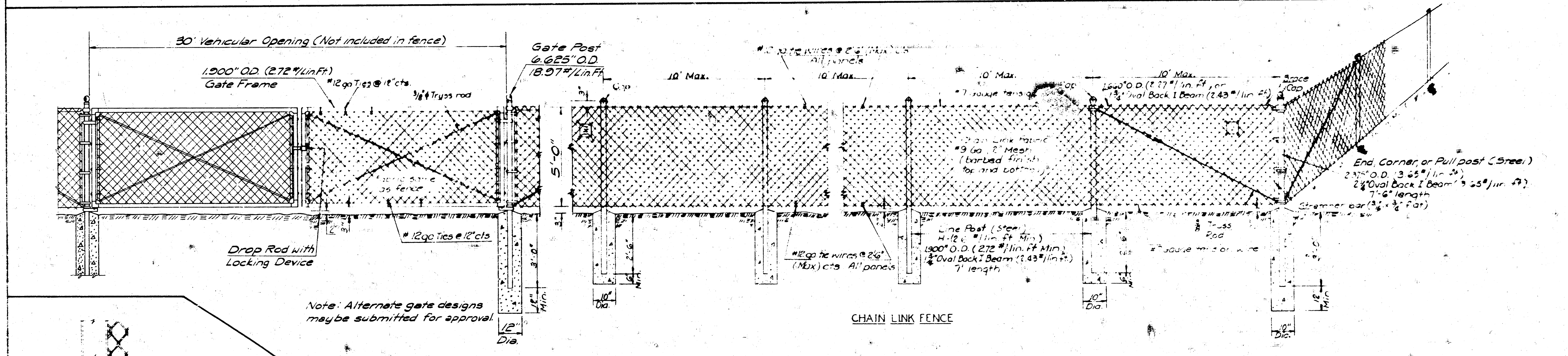
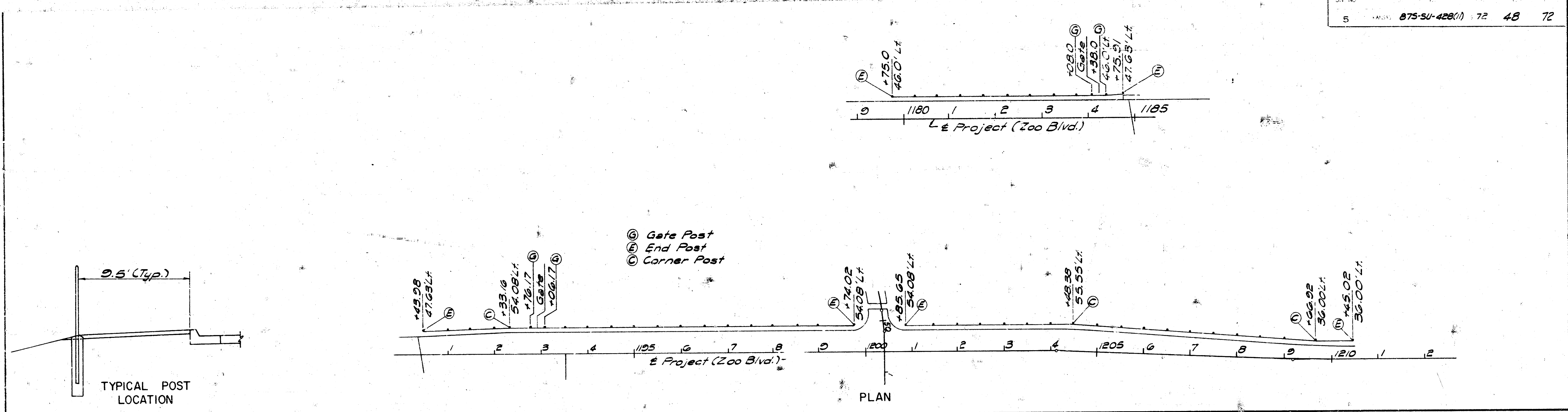
Pave Median to bridge



SECTION A-A







General Note
 Pull Posts shall be used at sharp breaks in vertical grade or at approximately 330' centers on straight runs or as directed by the Engineer.
 All concrete used in fence installation shall be Class B and shall conform to the requirements of the Specifications.
 All steel posts, braces, and gate frames shall be galvanized.
 Outside diameters shown for tubular steel posts, braces, and gate frames are nominal. Weight tolerances shall be as shown in the specifications.
 Tension wire, and chain link fabric shall be either zinc coated (galvanized) or aluminum coated.

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

FENCING PLAN & DETAILS
 Sta. 1179+75.00 to Sta. 1210+45.02
 SEDGWICK COUNTY PROJECT 875-SU-428(11)

PROFESSIONAL ENGINEERING CONSULTANTS
 INC. 3000
 WICHITA, KANSAS

Drawn by: [blank]
 Checked by: [blank]
 Approved by: [blank]

SUMMARY OF QUANTITIES						
ITEM	SURFACING MAINLINE	SURFACING SIDE ROADS	SHOULDER MAINLINE	SHOULDER SIDE ROADS	NEEDLES & ISLANDS	TOTAL
SURFACE COURSE						
AGGREGATE FOR BITUMINOUS SURFACE COURSE (SM-2)	2,043.5	342.9				2,386.4
ASPHALT CEMENT (AC-5)	126.4	21.2				147.6
EMULSIFIED ASPHALT (SS-1H) FOR TACK	7.8	1.3				9.1
BASE COURSE						
AGGREGATE FOR BITUMINOUS BASE COURSE (BM-4 REVISED)	7,143.8	1,371.7	2,604.2	812.8	377.7	12,110.2
ASPHALT CEMENT (AC-5)	402.1	77.5	146.6	34.9	21.3	682.4
EMULSIFIED ASPHALT (SS-1H) FOR TACK	24.8	4.3	7.1	1.8		38.0
WATER (NO SIGN DILUTION)					1.0	1.0
ROAD MIX BITUMINOUS BASE COURSE						
EMULSIFIED ASPHALT	551.1	153.7				704.8
MINERAL FILLER	787.3	219.8				1,007.1
BITUMINOUS BASE (B-1)	27,026	7,538				34,564
BITUMINOUS SEALING						
COVER MATERIAL (CM-A)**	78.6	21.4				100.0
COVER MATERIAL (CM-B)		19.7				19.7
COVER MATERIAL (CM-C)			51.8	18.5		70.3
CUTBACK ASPHALT (RC-3000)**	10.4	2.8				13.2
CUTBACK ASPHALT (RC-3000)		2.5	7.7	2.4		12.6
MANIPULATION (BITUMINOUS SEAL)	28.8	8.8				37.6
MANIPULATION (BITUMINOUS SEAL)		7.4	3.4	27.2		38.0
MANIPULATION (BITUMINOUS SEAL)SHOULDS						27.2
ASPHALTIC PAVEMENT SAMPLING						
SELECTED EMBANKMENT MATERIAL (VEHICLE MEASUREMENT)	14	5	3	2		24
					2,283	2,283
						CU YDS

RATES OF APPLICATION (SHOULDER)				
RATE	UNITS	ITEM	SHOULDER WIDTH	REMARKS
BASE COURSE				
48.10	TONS/STA	AGGREGATE FOR BITUMINOUS BASE COURSE (BM-4 REVISED)	10'-0"	MAINLINE
2.736	TONS/STA	ASPHALT CEMENT (AC-5)		
35.08	TONS/STA	AGGREGATE FOR BITUMINOUS BASE COURSE (BM-5 REVISED)	8'-0"	MAINLINE AT ACCELERATION
1.074	TONS/STA	ASPHALT CEMENT (AC-5)		OR DECELERATION LANES
15.62	TONS/STA	AGGREGATE FOR BITUMINOUS BASE COURSE (BM-4 REVISED)	8'-0"	SIDE ROAD LT.
0.533	TONS/STA	ASPHALT CEMENT (AC-5)		STA. 1180+39.84
27.82	TONS/STA	AGGREGATE FOR BITUMINOUS BASE COURSE (BM-4 REVISED)	8'-0"	SIDE ROAD RT.
1.571	TONS/STA	ASPHALT CEMENT (AC-5)		STA. 1200+39.84
31.94	TONS/STA	AGGREGATE FOR BITUMINOUS BASE COURSE (BM-4 REVISED)	8'-0"	SIDE ROAD RT.
1.792	TONS/STA	ASPHALT CEMENT (AC-5)		STA. 1200+39.84
0.10	GALS/SQ.YD.	EMULSIFIED ASPHALT (SS-1H) FOR TACK		
BITUMINOUS SEALING				
0.007	CU.YDS./SQ.YD.	COVER MATERIAL (CM-A)	ALL	ALL STABILIZED SHOULDER
0.25	GALS/SQ.YD.	CUTBACK ASPHALT (RC-3000)		
	STA	MANIPULATION (BITUMINOUS SEAL)SHOULDS		

* RATES INCREASED BY
** RATES INCREASED 15%

RATES OF APPLICATION (SURFACING)						
RATE	UNITS	ITEM	THICKNESS	TOP WIDTH	BOTTOM WIDTH	REMARKS
SURFACE COURSE						
28.07	TONS/STA	AGGREGATE FOR BITUMINOUS SURFACE COURSE (SM-2)	2"	24'-0"	23'-11 1/2"	MAINLINE - MEDIAN TO CURB & GUTTER
1.882	TONS/STA	ASPHALT CEMENT (AC-5)				
	TONS/STA	AGGREGATE FOR BITUMINOUS SURFACE COURSE (SM-2)	2"	24'-0"	24'-0"	MAINLINE - MEDIAN TO SHOULDER
	TONS/STA	ASPHALT CEMENT (AC-5)				
14.50	TONS/STA	AGGREGATE FOR BITUMINOUS SURFACE COURSE (SM-2)	2"	12'-0"	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						
93.55	TONS/STA	AGGREGATE FOR BITUMINOUS BASE COURSE (BM-4 REVISED)	8"	23'-11 1/2"	23'-10"	MAINLINE - MEDIAN TO CURB & GUTTER
5.285	TONS/STA	ASPHALT CEMENT (AC-5)				
94.16	TONS/STA	AGGREGATE FOR BITUMINOUS BASE COURSE (BM-4 REVISED)	8"	24'-0"	24'-1"	MAINLINE - MEDIAN TO SHOULDER
5.300	TONS/STA	ASPHALT CEMENT (AC-5)				
48.99	TONS/STA	AGGREGATE FOR BITUMINOUS BASE COURSE (BM-4 REVISED)	8"	12'-0"	12'-0"	ACCELERATION/DECELERATION OR LEFT TURN LANE
2.844	TONS/STA	ASPHALT CEMENT (AC-5)				
74.78	TONS/STA	AGGREGATE FOR BITUMINOUS BASE COURSE (BM-4 REVISED)	8"	23'-11 1/2"	23'-10 3/4"	SIDE RD. LT. STA. 1200+39.84
4.208	TONS/STA	ASPHALT CEMENT (AC-5)				
27.52	TONS/STA	AGGREGATE FOR BITUMINOUS BASE COURSE (BM-4 REVISED)	8"	12'-0"	12'-0"	RT. TURN LANE SIDE RD.
2.112	TONS/STA	ASPHALT CEMENT (AC-5)				LT. STA. 1200+39.84
68.93	TONS/STA	AGGREGATE FOR BITUMINOUS BASE COURSE (BM-4 REVISED)	8"	24'-0"	24'-1"	SIDE ROAD LT.
3.787	TONS/STA	ASPHALT CEMENT (AC-5)				STA. 1180+39.84
0.10	GALS/SQ.YD.	EMULSIFIED ASPHALT (SS-1H) FOR TACK				
ROAD MIX BITUMINOUS BASE COURSE						
6.974	TONS/STA	EMULSIFIED ASPHALT	8"	30'-3"	31'-0"	MAINLINE - MEDIAN TO CURB & GUTTER
8.98	TONS/STA	MINERAL FILLER				
341.67	SO.YDS/STA	BITUMINOUS BASE (B-1)				
9.348	TONS/STA	EMULSIFIED ASPHALT	8"	30'-9-5/8"	42'-11-5/8"	MAINLINE - MEDIAN TO SHOULDER
13.24	TONS/STA	MINERAL FILLER				
457.99	SO.YDS/STA	BITUMINOUS BASE (B-1)				
2.721	TONS/STA	EMULSIFIED ASPHALT	8"	12'-0"	12'-0"	LEFT TURN LANE & ACCELERATION/DECELERATION LANE
3.89	TONS/STA	MINERAL FILLER				
133.23	SO.YDS/STA	BITUMINOUS BASE (B-1)				MAIN CURB & GUTTER
2.022	TONS/STA	EMULSIFIED ASPHALT	8"	9'-1-5/8"	9'-1-5/8"	ACCELERATION/DECELERATION LANE ALIGNED WITH A SHOTTER
2.98	TONS/STA	MINERAL FILLER				
101.58	SO.YDS/STA	BITUMINOUS BASE (B-1)				
9.978	TONS/STA	EMULSIFIED ASPHALT	8"	42'-0"	45'-0"	SIDE ROAD LT.
14.26	TONS/STA	MINERAL FILLER				STA. 1180+39.84
488.88	SO.YDS/STA	BITUMINOUS BASE (B-1)				
BITUMINOUS SEALING						
2.67	CU.YDS/STA	COVER MATERIAL (CM-A)**		30'-0"		TEMP. SURFACE - SEE CONSTRUCTION - TRACK NO. 5
83.345	GALS/STA	CUTBACK ASPHALT (RC-3000)**				
	STA	MANIPULATION (BITUMINOUS SEAL)				
2.67	CU.YDS/STA	COVER MATERIAL (CM-B)		24'-0"		SIDE ROAD LT.
83.33	GALS/STA	CUTBACK ASPHALT (RC-3000)				STA. 1180+39.84
	STA	MANIPULATION (BITUMINOUS SEAL)				

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 THIS 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 UNDERDRUM UP TO 100%. NO ADJUSTMENT IN BID PRICE WILL BE MADE FOR UNDERDRUM OF THE BID ITEM MINERAL FILLER.

MINERAL FILLER FOR ROAD MIX BITUMINOUS BASE COURSE SHALL BE IN ACCORDANCE WITH SPECIAL PROVISION 607.01Z OF THE STANDARD SPECIFICATIONS.

** TEMPORARY SURFACE:

A BITUMINOUS SEAL (CM-A) HAS BEEN INCLUDED IN THE BID QUANTITIES WITH THE STIPULATION THAT IT BE SUBJECT TO AN UNDERDRUM UP TO 100%. NO ADJUSTMENT IN BID PRICE WILL BE MADE FOR AN UNDERDRUM OF THE BID ITEM FOR THIS SEAL.

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 0.00418 TON PER SQ.YD.

AGGREGATE FOR BITUMINOUS SURFACE COURSE (SM-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 9.59 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 8.5 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 MIXED MATERIAL IN PLACE IS TO BE USED FOR AGGREGATE. MINERAL FILLER HAS BEEN COMPUTED AT THE RATE OF 10% 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.

COVER MATERIAL (CM-A) HAS BEEN COMPUTED AT THE RATE OF 0.008 CU.YDS./SQ.YD. CUTBACK ASPHALT (RC-3000) HAS BEEN COMPUTED AT THE RATE OF 0.25 GALS./SQ.YD.

COVER MATERIAL (CM-B) HAS BEEN COMPUTED AT THE RATE OF 0.013 CU.YDS./SQ.YD. CUTBACK ASPHALT (RC-3000) HAS BEEN COMPUTED AT THE RATE OF 0.25 GALS./SQ.YD.

COVER MATERIAL (CM-C) 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 GALS./SQ.YD.

SELECTED EMBANKMENT MATERIAL SHALL BE OBTAINED FROM THE HOMOGENEOUS AREAS AS NOTED ON SHEET NO. 10 AS APPROVED BY THE ENGINEER.

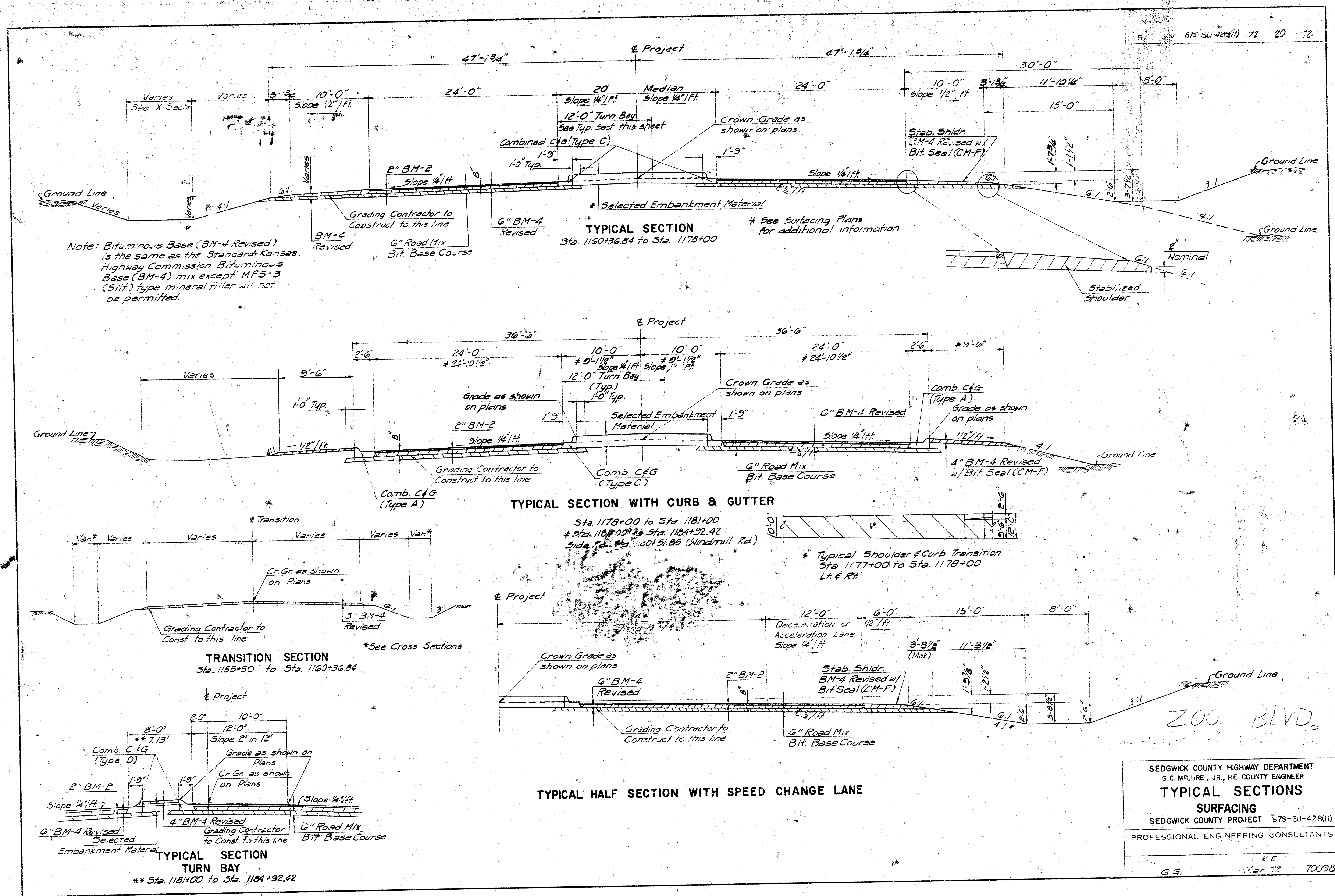
RATES AND QUANTITIES FOR BITUMINOUS BASE COURSES HAVE BEEN INCREASED FOR CONTINGENCIES (8% FOR BASE, 15% FOR 4" BASE).

SEDGWICK COUNTY HIGHWAY DEPARTMENT
G.C. McLEURE JR., COUNTY ENGINEER

SURFACING RATES AND QUANTITIES

SEDGWICK COUNTY PROJECT 875-SU-42800

PROFESSIONAL ENGINEERING CONSULTANTS



SEDGWICK COUNTY HIGHWAY DEPARTMENT
G. C. MCLURE, JR., P.E. COUNTY ENGINEER
TYPICAL SECTIONS
SURFACING
SEDGWICK COUNTY PROJECT 67S-SU-428(1)
PROFESSIONAL ENGINEERING CONSULTANTS
K.E.
G.G. Mar 72 70098