

10-8-1-14

CITY OF WICHITA, KANSAS

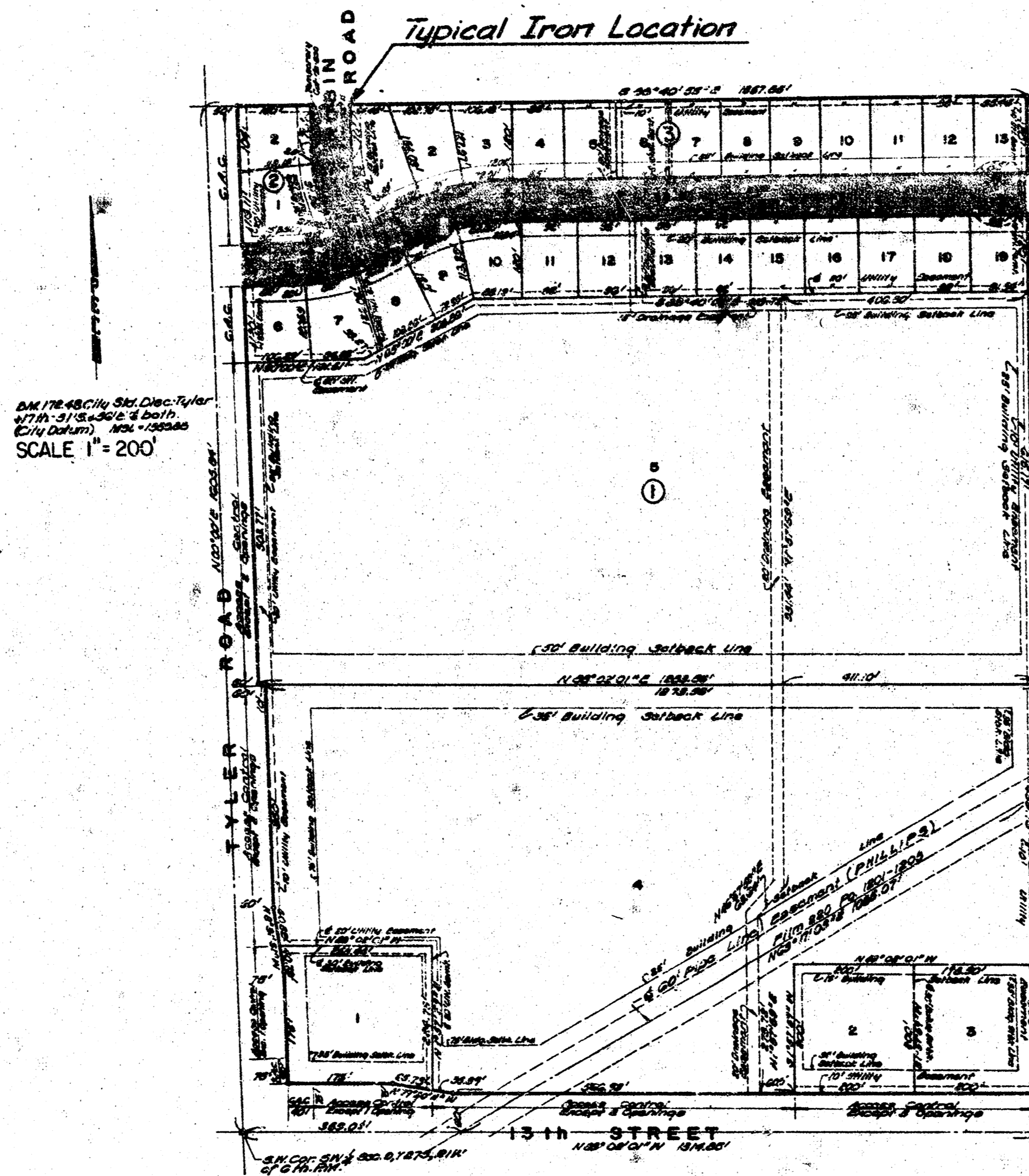
STREET IMPROVEMENTS

(NORTHWEST VILLAGE)

PROJECT NO. 472-76-245-81013 - 000-000-001

BENCH MARKS

- B.M. - C.O.W. standard disc. located 31' south and 36' east of W 1/4 corner Sec. 9, T27S, R1W, 6th P.M. Elev. = 172.48
- B.M. - This "I" in SW corner headwall @ concrete box approx. 50' N of 5 1/4 corner Sec. 9, 27S/W Elev. = 159.60
- B.M. - This "I" NE corner storm drain box N/side of 13th St. approx. 1240' ± east of SW corner Sec. 9, 27S/W Elev. = 161.52
- B.M. - This "I" SW corner concrete box which lies approx. 840' ± E of SW corner Sec. 9, 27S/W (N. side 13th St.) Elev. = 162.48
- B.M. - NW corner 4' x 4' concrete pad with C.O.W. M.H. behind curb on NW corner of intersection Tyler & 13th St. N. Elev. = 167.55



Note: Irons as shown are existing or will be set by others prior to construction.

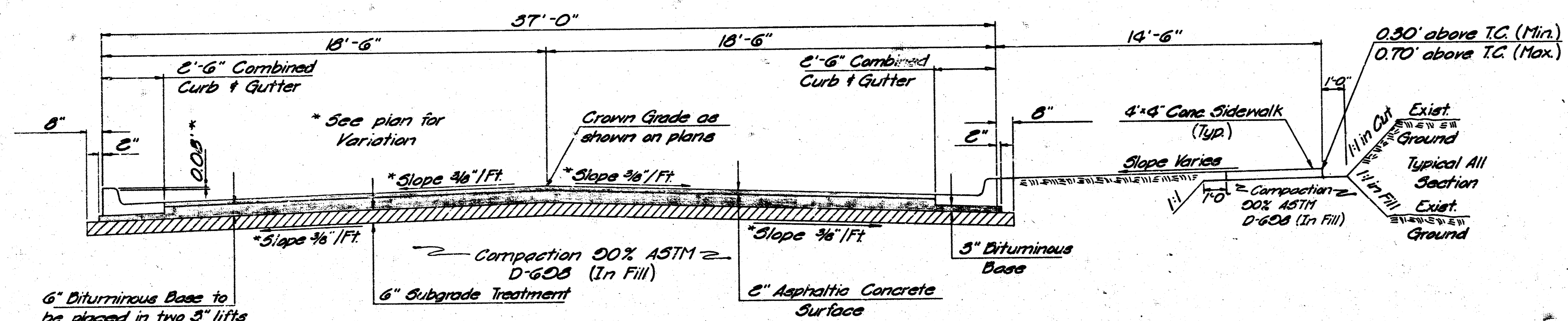
INDEX OF SHEETS

- 1. TITLE SHEET
- 2.-3. TYPICAL SECTION
- 4.-6. PLAN SHEETS
- 7.-11. CROSS SECTIONS

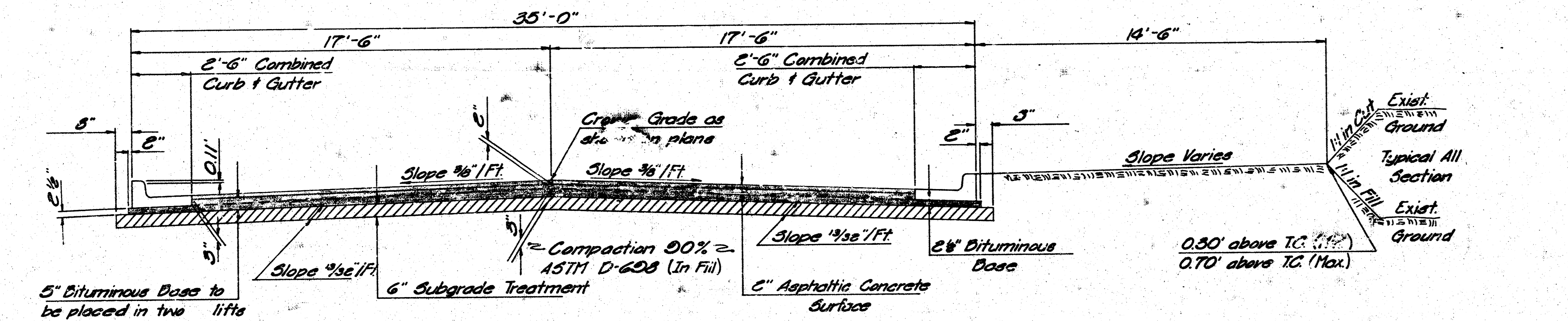
Note: 2,268 Cubic Yards of Contractor Furnished Borrow is required.

NOVEMBER, 1980

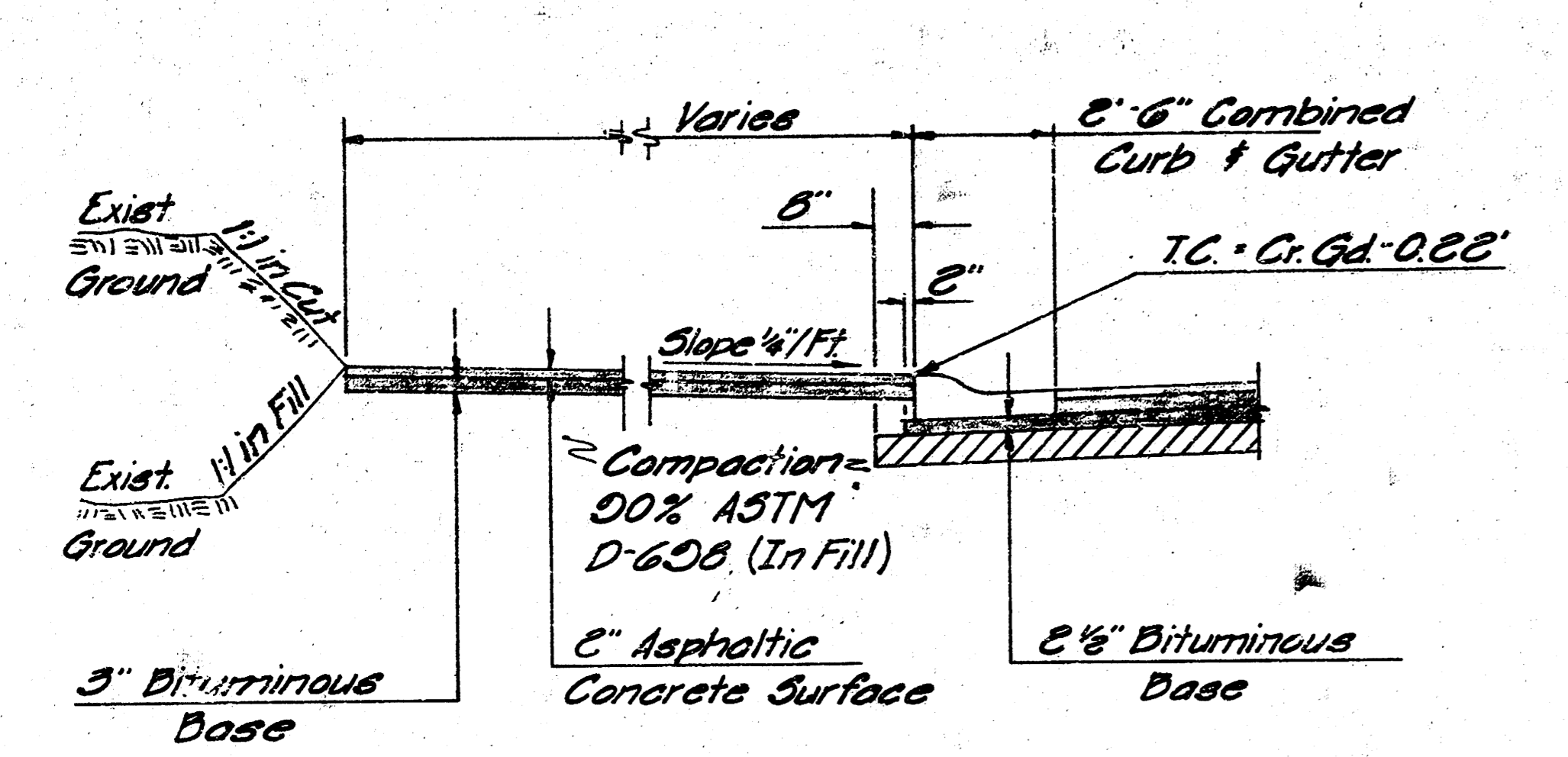
	Revision		By	Date
	CITY OF WICHITA, KANSAS			
	TITLE SHEET			
	STREET IMPROVEMENTS			
PROJ. NO. 472-76-245-81013-000-000-001				
PROFESSIONAL ENGINEERING CONSULTANTS, P.A.				
ENGINEERS WICHITA, KANSAS				
Designed by	DD, CSB, BER	Job No.	80305	Sh. 1 of 1
Drawn by	GRH	Date	Nov. 1980	



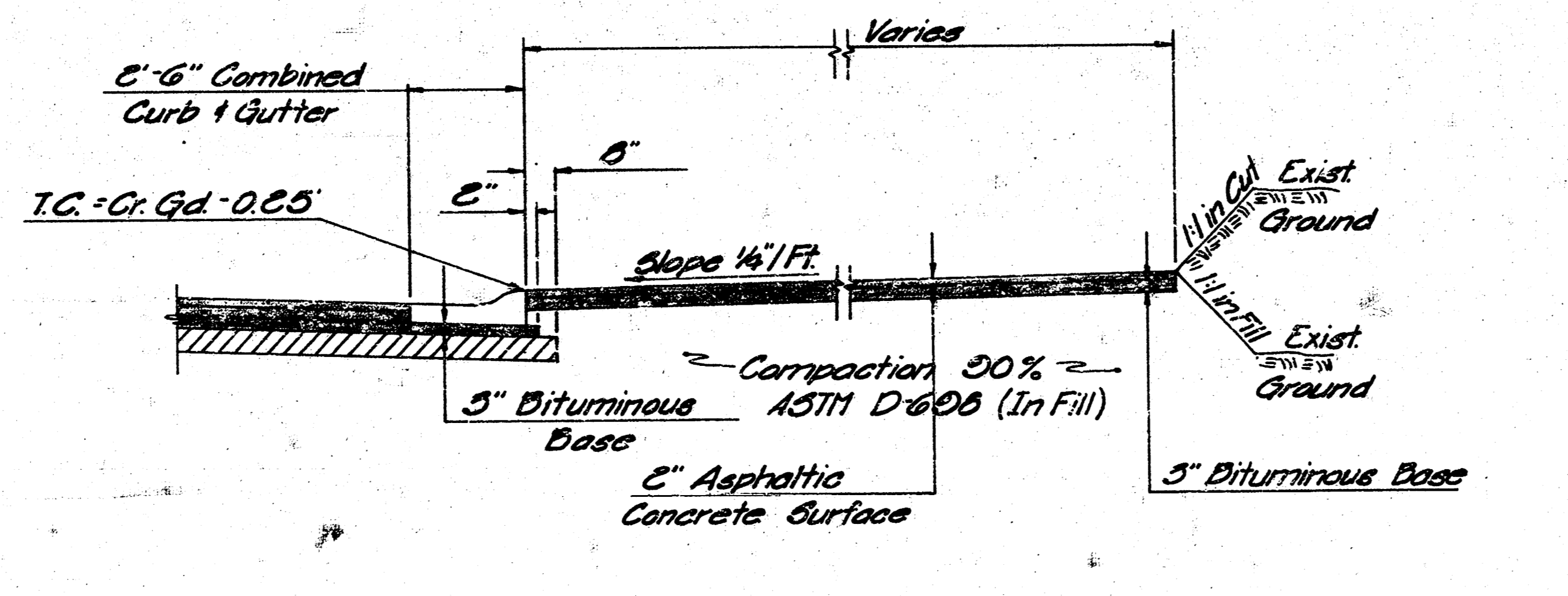
TYPICAL SECTION
37' ASPHALTIC CONCRETE PAVEMENT WITH BITUMINOUS BASE



TYPICAL SECTION
35' ASPHALTIC CONCRETE PAVEMENT WITH BITUMINOUS BASE

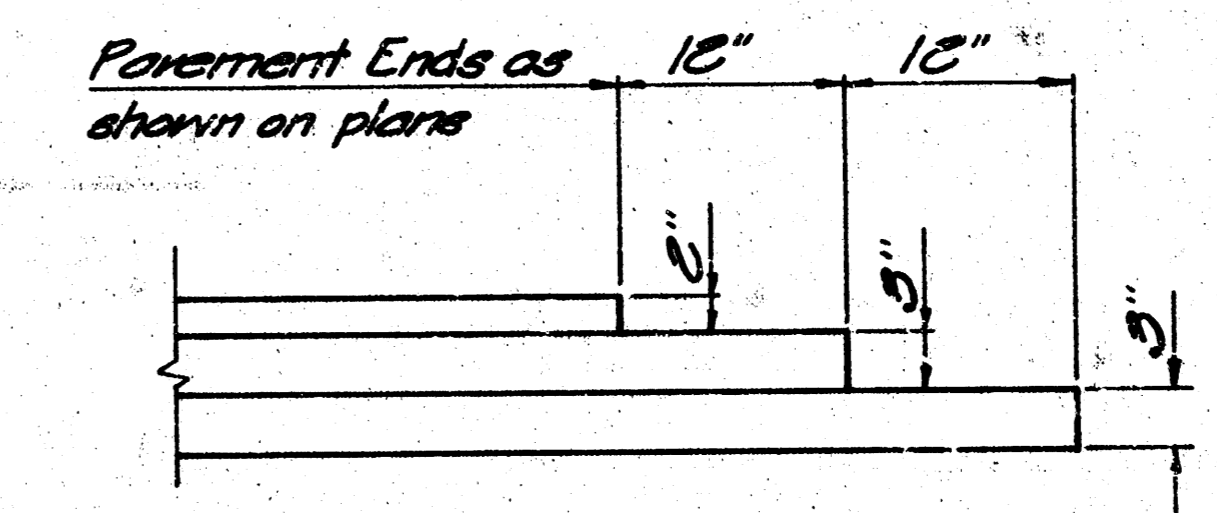


PARTIAL SECTION
35' ASPHALTIC CONCRETE PAVEMENT WITH BITUMINOUS BASE
at Temporary Curb-de-see



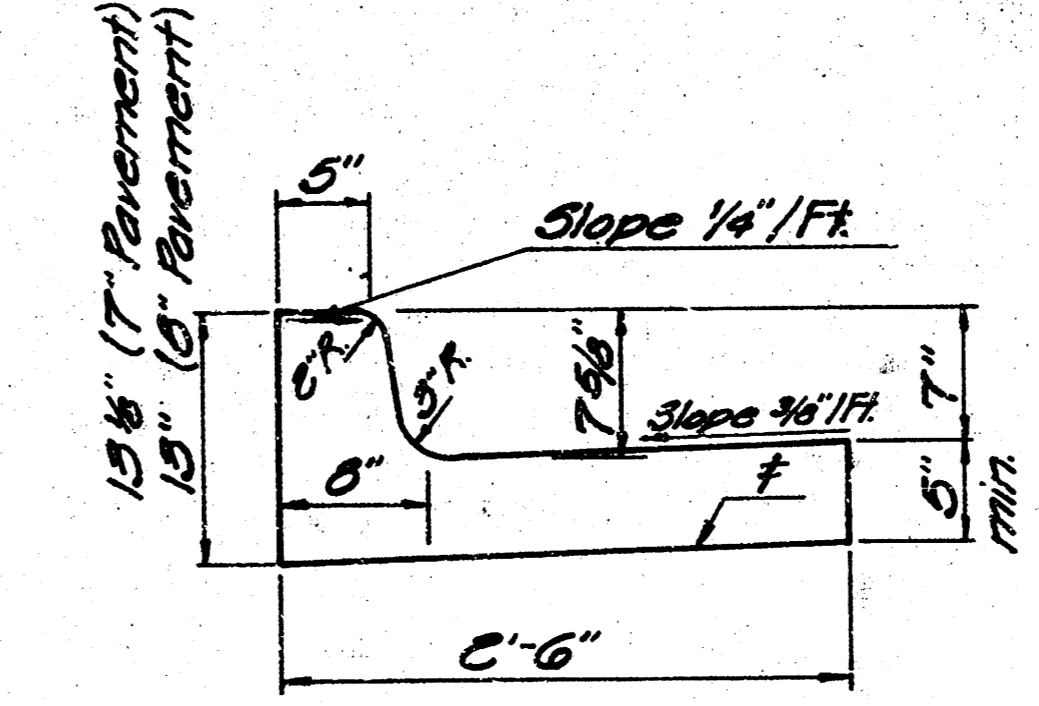
PARTIAL SECTION
37' ASPHALTIC CONCRETE PAVEMENT WITH BITUMINOUS BASE
at Temporary Curb-de-see

- GENERAL NOTES**
1. A TACK COAT OF EMULSIFIED ASPHALT (SS-1H) SHALL BE APPLIED AT AN APPROXIMATE RATE 0.05 GALLONS PER SQUARE YARD BETWEEN LIFTS OF ASPHALTIC MATERIALS WHEN ORDERED BY THE ENGINEER. TACK COAT WILL NOT BE PAID FOR DIRECTLY AND SHALL BE CONSIDERED AS SUBSIDIARY TO PRICE BID FOR ASPHALTIC PAVEMENT.
 2. BITUMINOUS BASE AND ASPHALTIC CONCRETE WEARING SURFACE SHALL BE PLACED WITH A LAYDOWN MACHINE HAVING AUTOMATIC CONTROLS FOR CROWN AND GRADE. CONSTRUCTION JOINTS IN EACH LIFT SHALL BE STAGGERED A MINIMUM DISTANCE OF 1 FOOT WITH JOINTS IN PRECEDING LIFTS AND SUCH THAT A JOINT WILL BE CONSTRUCTED ON THE PAVEMENT CENTERLINE IN THE TOP LIFT.
 3. THE A.C. PAVEMENT BETWEEN COMBINED CURB AND GUTTER ON 37' BACK TO BACK STREETS SHALL BE PAID AS SQUARE YARDS 8" A.C. PAVEMENT (6" BITUMINOUS BASE). THE BITUMINOUS BASE UNDER THE COMBINED CURB AND GUTTER SHALL BE PAID AS SQUARE YARDS 3" BITUMINOUS BASE. THE A.C. PAVEMENT BETWEEN COMBINED CURB AND GUTTER ON 35' BACK TO BACK STREETS SHALL BE PAID AS SQUARE YARDS 7" A.C. PAVEMENT (5" BITUMINOUS BASE). THE BITUMINOUS BASE UNDER THE COMBINED CURB AND GUTTER SHALL BE PAID AS SQUARE YARDS 2-1/2" BITUMINOUS BASE.
 4. SIDEWALKS INDICATED ON THE TYPICAL SECTION ARE FOR LOCATION ON THAT SECTION ONLY. SIDEWALKS SHALL BE CONSTRUCTED WHERE SHOWN ON THE PLAN SHEETS AS PART OF THIS PROJECT.
 5. CONTRACTION JOINTS MAY BE CONSTRUCTED IN INTEGRAL CURB BY SAWING WITH AN APPROVED CONCRETE SAW. THE SAW SHALL EXTEND THROUGH THE CURB TO THE PAVEMENT. SAWED CONTRACTION JOINTS SHALL HAVE A MAXIMUM SPACING OF 10'.
 6. INTEGRAL CURB SHALL BE TIED TO THE PAVEMENT BASE WITH SHORT DEFORMED DWEL BARS SPACED AT 2'-6" INTERVALS. THESE DWEL BARS SHALL NOT BE LESS THAN 1/2" NOR MORE THAN 3/4" IN DIAMETER, AND SHALL NOT BE PAID FOR DIRECTLY, BUT SHALL BE CONSIDERED SUBSIDIARY TO INTEGRAL CURB.
 7. THE 6" SUBGRADE TREATMENT SHALL BE PAID FOR PER SQUARE YARD OF MANIPULATION AND PER TON OF LIME OR CEMENT, COMPUTED AT THE RATE OF 25 POUNDS PER SQUARE YARD. THE ACTUAL RATE OF LIME OR CEMENT SHALL BE DETERMINED BY THE ENGINEER AND NO ALTERATION OF THE UNIT PRICE BID FOR LIME OR CEMENT WILL BE MADE. IF THE ENGINEER DETERMINES, BASED UPON SOIL TESTS OF THE SUBGRADE MATERIAL IN PLACE, THAT NO SUBGRADE TREATMENT IS REQUIRED, THE TOP 6" OF THE SUBGRADE SHALL BE COMPACTED TO 90% ASTM D-1557 OR 95% ASTM D-698. IN THIS EVENT, THE BID ITEMS OF MANIPULATION AND LIME OR CEMENT SHALL BE UNDERDRUN AND THE BID ITEM COMPACTED FILL SHALL BE INCREASED BY THE AMOUNT OF MANIPULATED FILL SHOWN ON THE PLANS.

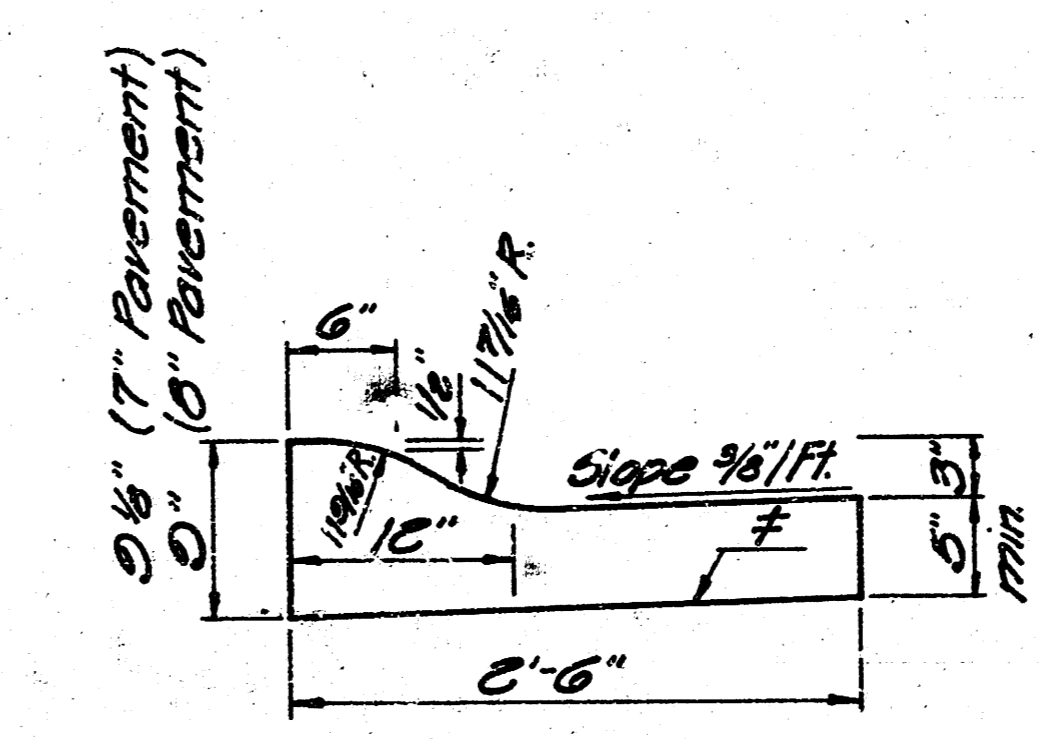


DETAIL OF TRANSVERSE CONSTRUCTION JOINTS

Transverse Construction Joints shall be constructed in flexible base pavements at locations where pavement temporarily ends to facilitate future pavement construction as shown by detail. The cost of constructing the Transverse Construction Joints shall not be measured or paid for directly but shall be included in the bid price for square yards of asphaltic concrete pavement.



STANDARD CURB & GUTTER DETAIL



ROLL TYPE CURB & GUTTER DETAIL

CITY OF WICHITA, KANSAS

TYPICAL SECTIONS
STREET IMPROVEMENTS
NORTHWEST VILLAGE
PROJ. NO. 472-76-245-8103-000-000-001
PROFESSIONAL ENGINEERING CONSULTANTS, P.A.
ENGINEERS
WICHITA, KANSAS

Designed by **CSD, BER** Checked by _____
Drawn by **DS** Date _____ Job No. **80305**

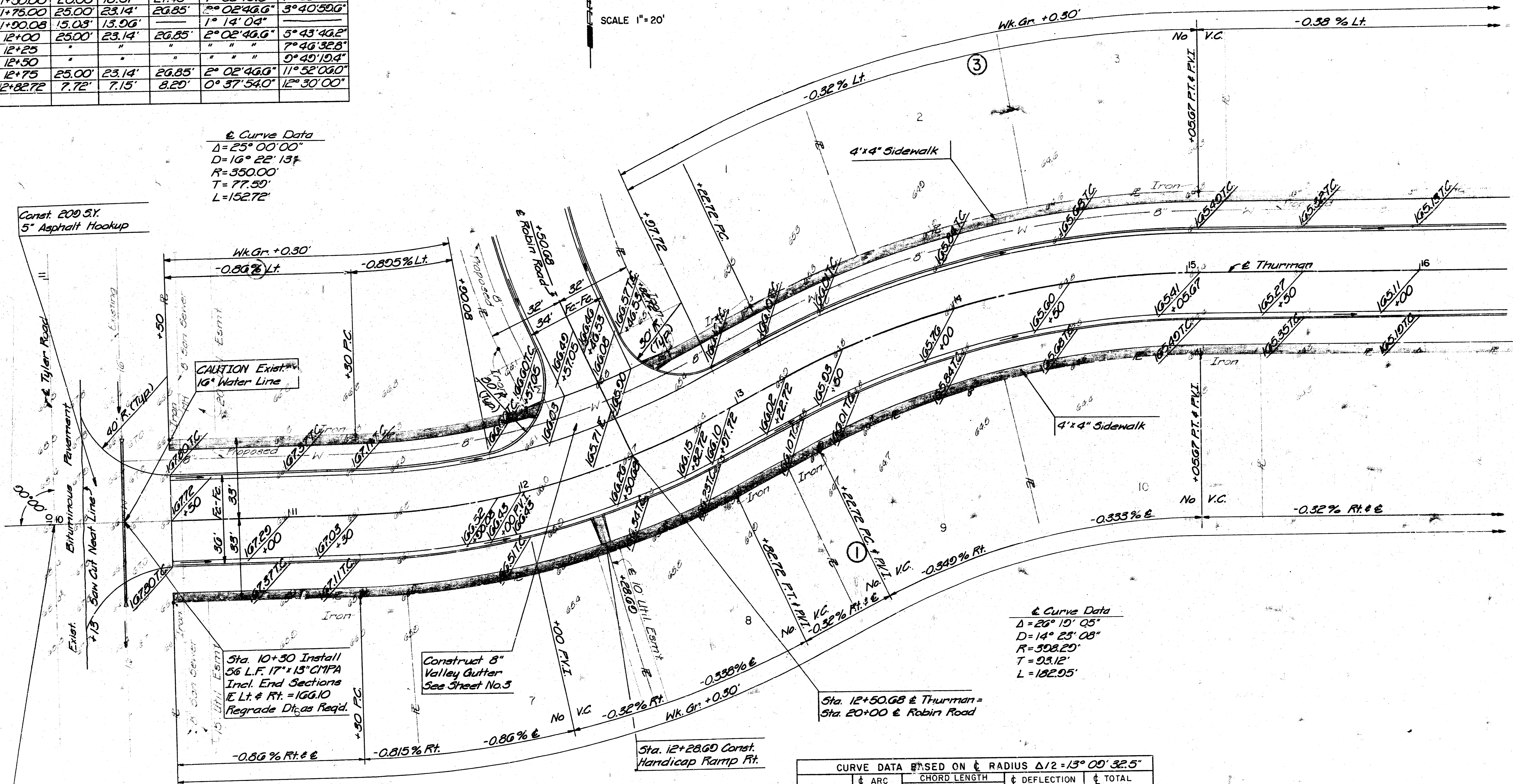
Sheet 2 of 11

CURVE DATA BASED ON $\Delta/2 = 12^\circ 30' 00''$

STATION	ARC LENGTH	CHORD LENGTH		DEFLECTION ANGLE	TOTAL DEFLECTION
		8' OFF LEFT FACE CURB	8' OFF RIGHT FACE CURB		
11+30.00	-	-	-	0° 00' 00"	0° 00' 00"
11+50.00	20.00'	18.51'	21.48'	1° 38' 13.0"	1° 38' 13.0"
11+75.00	25.00'	23.14'	26.85'	2° 02' 46.6"	3° 40' 59.6"
11+90.08	15.08'	13.96'	-	1° 14' 04"	-
12+00	25.00'	23.14'	26.85'	2° 02' 46.6"	5° 43' 46.2"
12+25	"	"	"	"	7° 46' 32.8"
12+50	"	"	"	"	0° 49' 19.4"
12+75	25.00'	23.14'	26.85'	2° 02' 46.6"	11° 52' 06.0"
12+82.72	7.72'	7.15'	8.20'	0° 37' 54.0"	12° 30' 00"

Curve Data
 $\Delta = 25^\circ 00' 00''$
 $D = 16^\circ 22' 13''$
 $R = 350.00'$
 $T = 77.50'$
 $L = 152.72'$

SCALE 1" = 20'



Const. 200 SY.
5" Asphalt Hookup

CAUTION Exist.
16" Water Line

Sta. 10+30 Install
56 L.F. 17"x13" CMPA
Incl. End Sections
E.Lt. & Rt. = 166.10
Regrade Dk. as Req'd.

Construct 8" Valley Gutter
See Sheet No. 3

Sta. 12+28.60 Const.
Handicap Ramp Rt.

Sta. 12+50.08 & Thurman =
Sta. 20+00 & Robin Road

Curve Data
 $\Delta = 26^\circ 19' 05''$
 $D = 14^\circ 23' 08''$
 $R = 308.20'$
 $T = 93.12'$
 $L = 182.95'$

Sta. 10+00 & Thurman =
Sta. 10+00 & Tyler Rd.

	EARTHWORK		
	EXCAVATION	COMPACTED FILL	MANIPULATION
PROPERTY	61.52 CY	287.93 CY	5128.03 SY
10%	6.15 CY	28.79 CY	512.50 SY
Total	67.67 CY	316.72 CY	5640.53 SY
CITY	71.07 CY	13.22 CY	574.72 SY
10%	7.11 CY	1.32 CY	57.47 SY
Total	78.18 CY	14.54 CY	632.19 SY

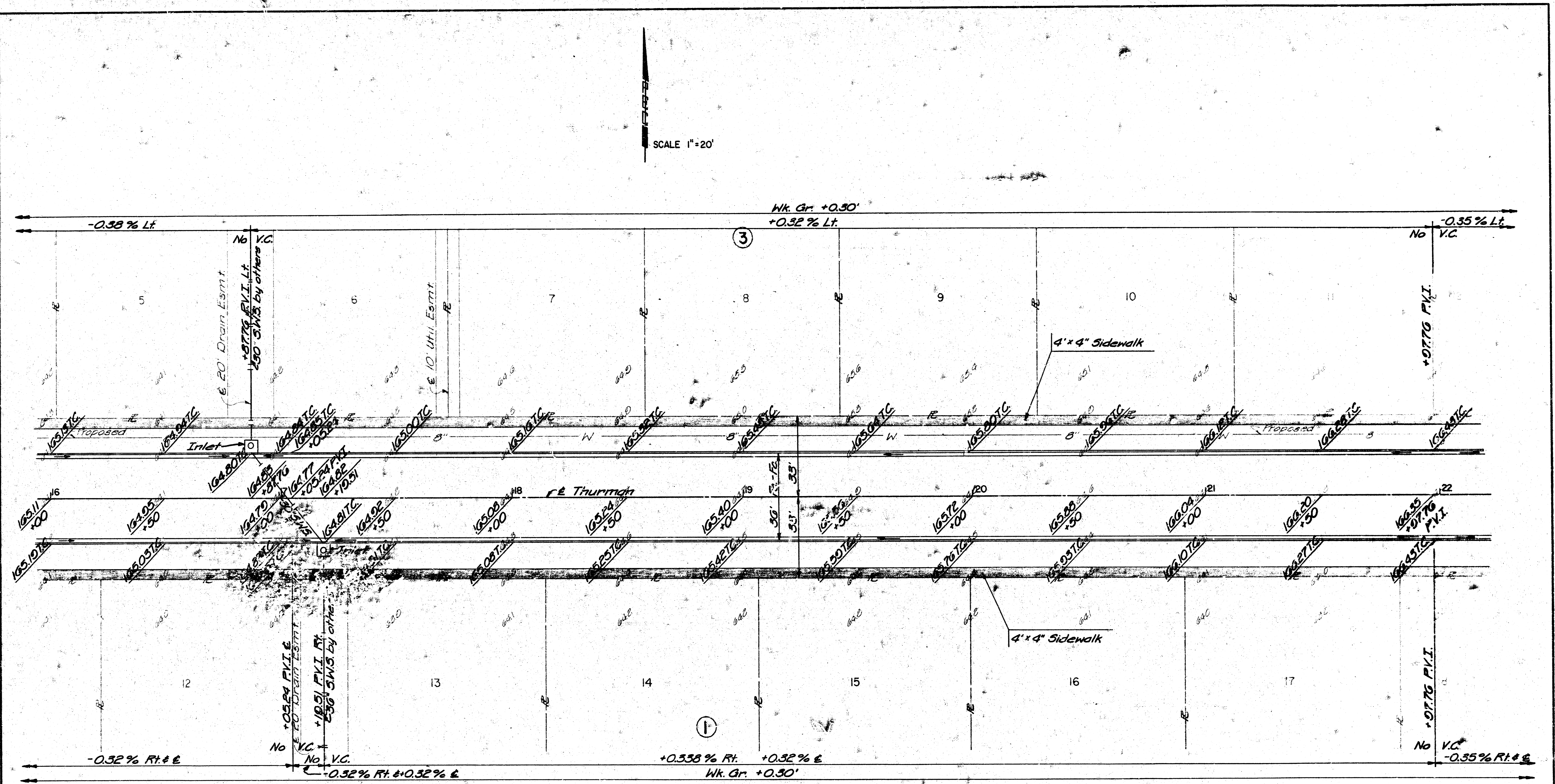
Note: Construct 4'x4" Conc Sidewalk Rt. & Lt. on Thurman as shown.

CURVE DATA BASED ON $\Delta/2 = 13^\circ 00' 32.5''$

STATION	ARC LENGTH	CHORD LENGTH		DEFLECTION ANGLE	TOTAL DEFLECTION
		8' OFF LEFT FACE CURB	8' OFF RIGHT FACE CURB		
13+22.72	-	-	-	0° 00' 00"	0° 00' 00"
13+50.00	27.28'	20.76'	25.40'	1° 57' 43.5"	1° 57' 43.5"
13+75	25.00'	20.63'	23.36'	1° 47' 53.5"	3° 45' 37.0"
14+00	"	"	"	"	5° 33' 30.5"
14+25	"	"	"	"	7° 21' 24.0"
14+50	"	"	"	"	9° 00' 17.5"
14+75	"	"	"	"	10° 57' 11.0"
15+00	25.00'	20.63'	23.36'	1° 47' 53.5"	12° 45' 04.5"
15+05.67	5.67'	6.04'	5.30'	0° 24' 28"	13° 00' 32.5"

Revision	By	Date
CITY OF WICHITA, KANSAS		
THURMAN		
STREET IMPROVEMENTS		
PROJ. NO. 472-76-245-81013-000-000-001		
PROFESSIONAL ENGINEERING CONSULTANTS, P.A.		
ENGINEERS WICHITA, KANSAS		
Designed by DD, BER	Job No. 80305	Sht. 4 of 7
Drawn by GRH	Date Nov. 1980	

SCALE 1"=20'



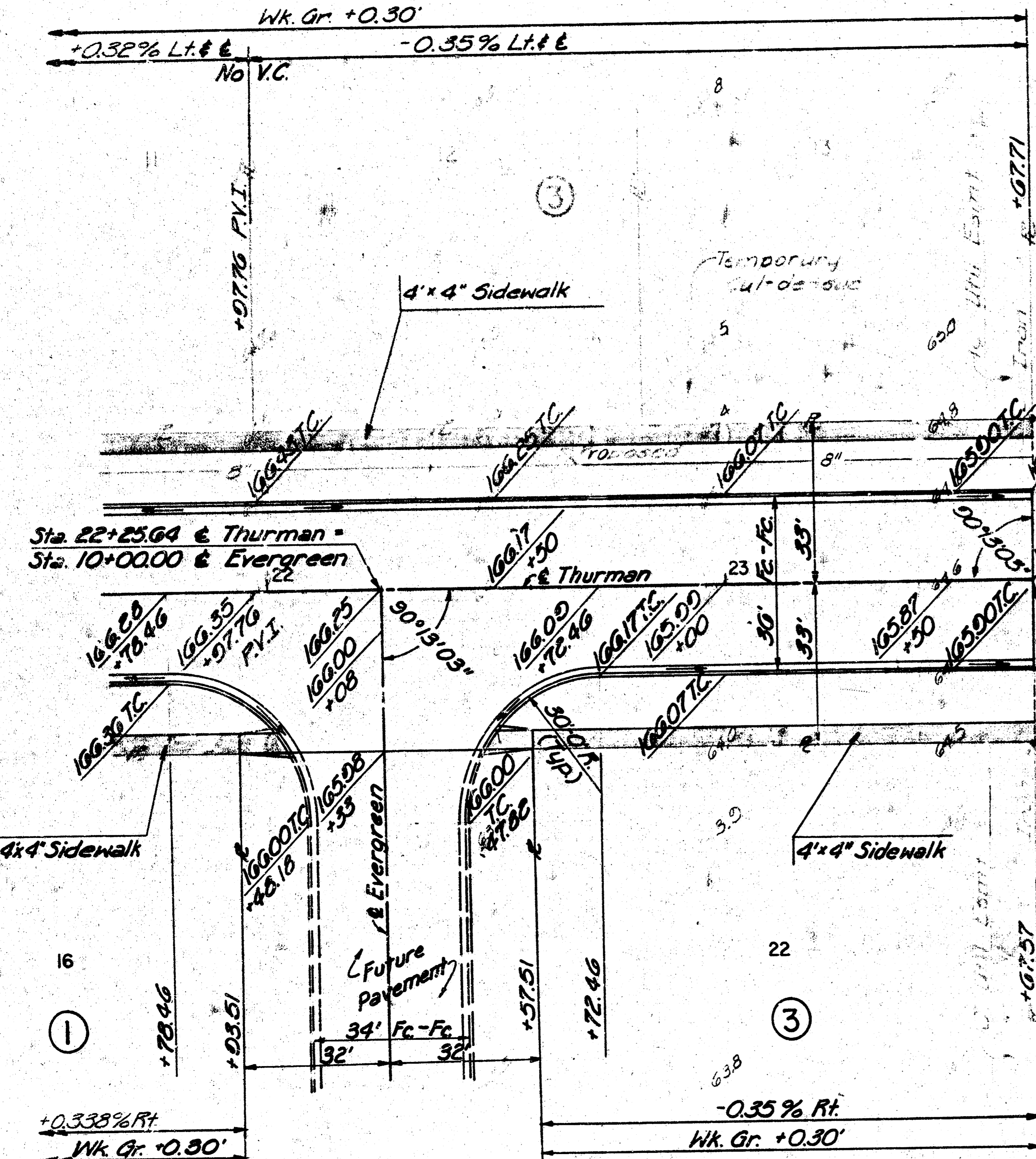
EARTHWORK			
	E EXCAVATION	COMPACTED FILL	MANIPULATION
PROPERTY	106.71 C.Y.	457.78 C.Y.	6,482.00 S.Y.
10%	10.67 C.Y.	45.78 C.Y.	648.20 S.Y.
Total	117.38 C.Y.	470.56 C.Y.	6,664.44 S.Y.
CITY	14.56 C.Y.	4.17 C.Y.	123.33 S.Y.
10%	1.46 C.Y.	0.42 C.Y.	12.33 S.Y.
Total	15.02 C.Y.	4.59 C.Y.	146.66 S.Y.

Revision		By	Date
CITY OF WICHITA, KANSAS			
THURMAN			
STREET IMPROVEMENTS			
PROJ. NO. 472-76-245-81013-000-000-001			
PROFESSIONAL ENGINEERING CONSULTANTS, P.A.			
ENGINEERS WICHITA, KANSAS			
Designed by DD, BER	Job No. 80305	Sh. 5 of 7	
Drawn by GRH	Date Nov. 1980		

SCALE 1"=20'

SCALE 1"=20'

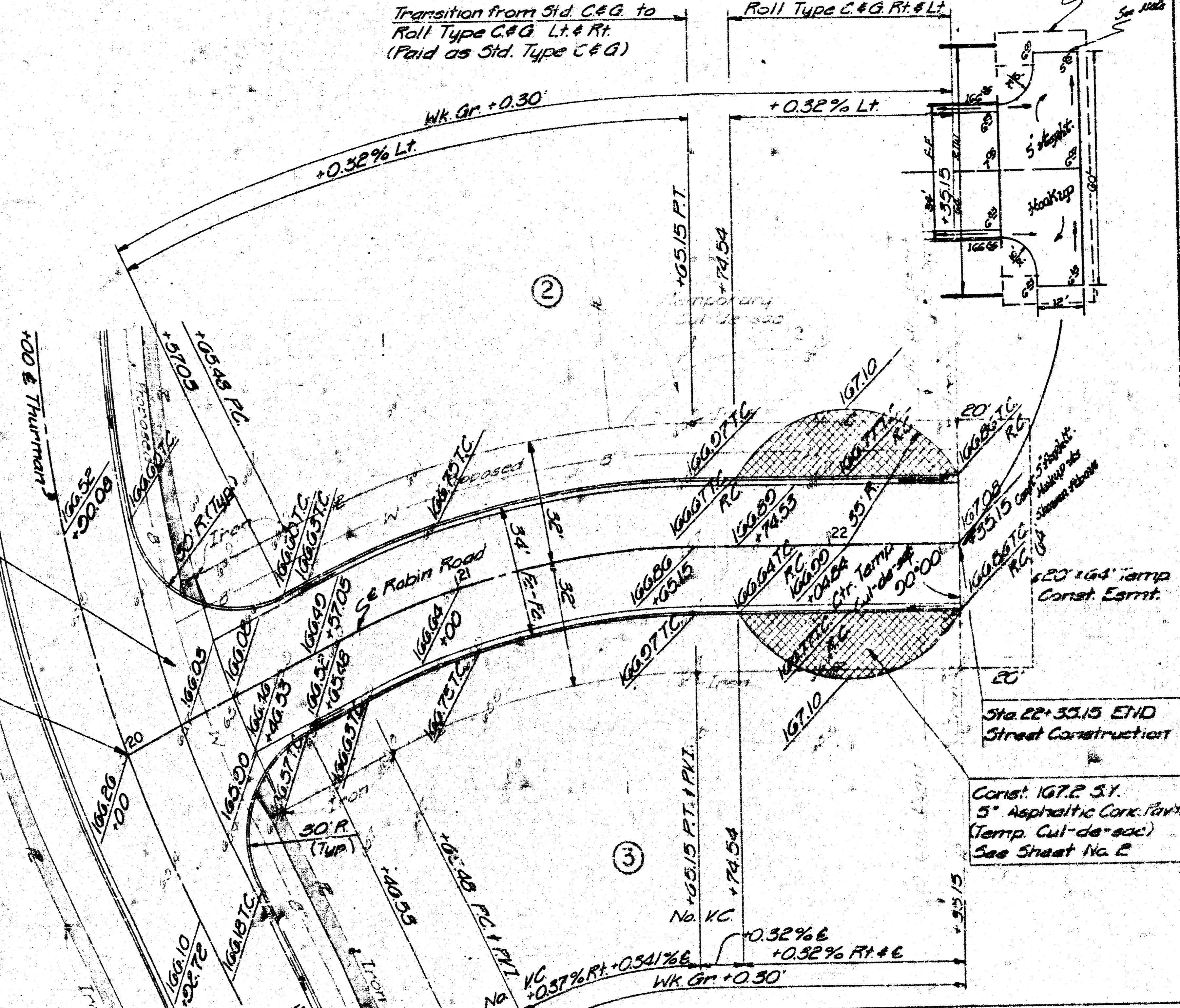
*Note: Const. Temp. Ditch. Cost of Ditch Is Incidental to Right of Way.



8" Valley Gutter See Sheet No. 4

Sta. 20+00 & Robin Rd. Sta. 12+50.68 & Thurman

Sta. 23+07.64 END Street Construction



CURVE DATA BASED ON RADIUS Δ/2 = 13° 00' 32.5"

STATION	ARC LENGTH	CHORD LENGTH	DEFLECTION ANGLE	TOTAL DEFLECTION
20+65.48			0° 00' 00"	0° 00' 00"
20+75	9.52'	10.62'	1° 15' 24.5"	1° 15' 24.5"
21+00	25.00'	27.87'	3° 18' 02.5"	4° 33' 27.0"
21+25			7° 51' 29.5"	7° 51' 29.5"
21+50	25.00'	27.87'	3° 18' 02.5"	11° 09' 32.0"
21+65.15	15.15'	16.30'	2° 00' 00.5"	13° 09' 32.5"

Curve Data
 $\Delta = 26^\circ 19' 05"$
 $D = 26^\circ 24' 22"$
 $R = 216.98'$
 $T = 50.73'$
 $L = 99.67'$

EARTHWORK			
	EXCAVATION	COMPACTED FILL	MANIPULATION
PROPERTY	0.00 CY	154.44 CY	582.11 SY
10%	0.00 CY	15.44 CY	58.21 SY
Total	0.00 CY	169.88 CY	640.32 SY
CITY	0.00 CY	52.96 CY	252.87 SY
10%	0.00 CY	5.30 CY	25.29 SY
Total	0.00 CY	58.26 CY	278.16 SY

EARTHWORK			
	EXCAVATION	COMPACTED FILL	MANIPULATION
PROPERTY	61.00 CY	30.47 CY	314.63 SY
10%	6.10 CY	3.05 CY	31.46 SY
Total	67.10 CY	33.52 CY	346.09 SY
CITY	2.17 CY	0.00 CY	8.20 SY
10%	0.22 CY	0.00 CY	0.84 SY
Total	2.39 CY	0.00 CY	9.04 SY

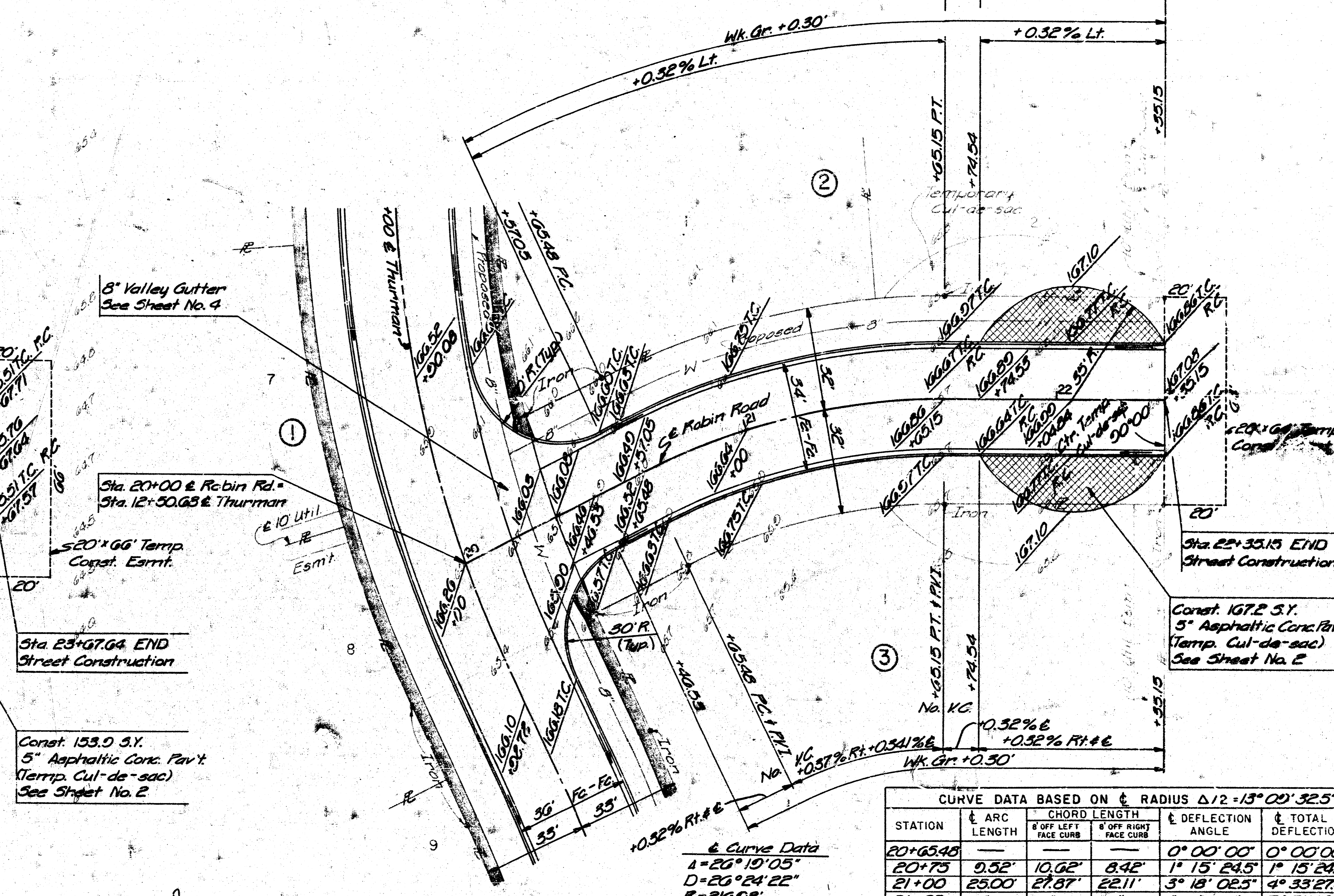
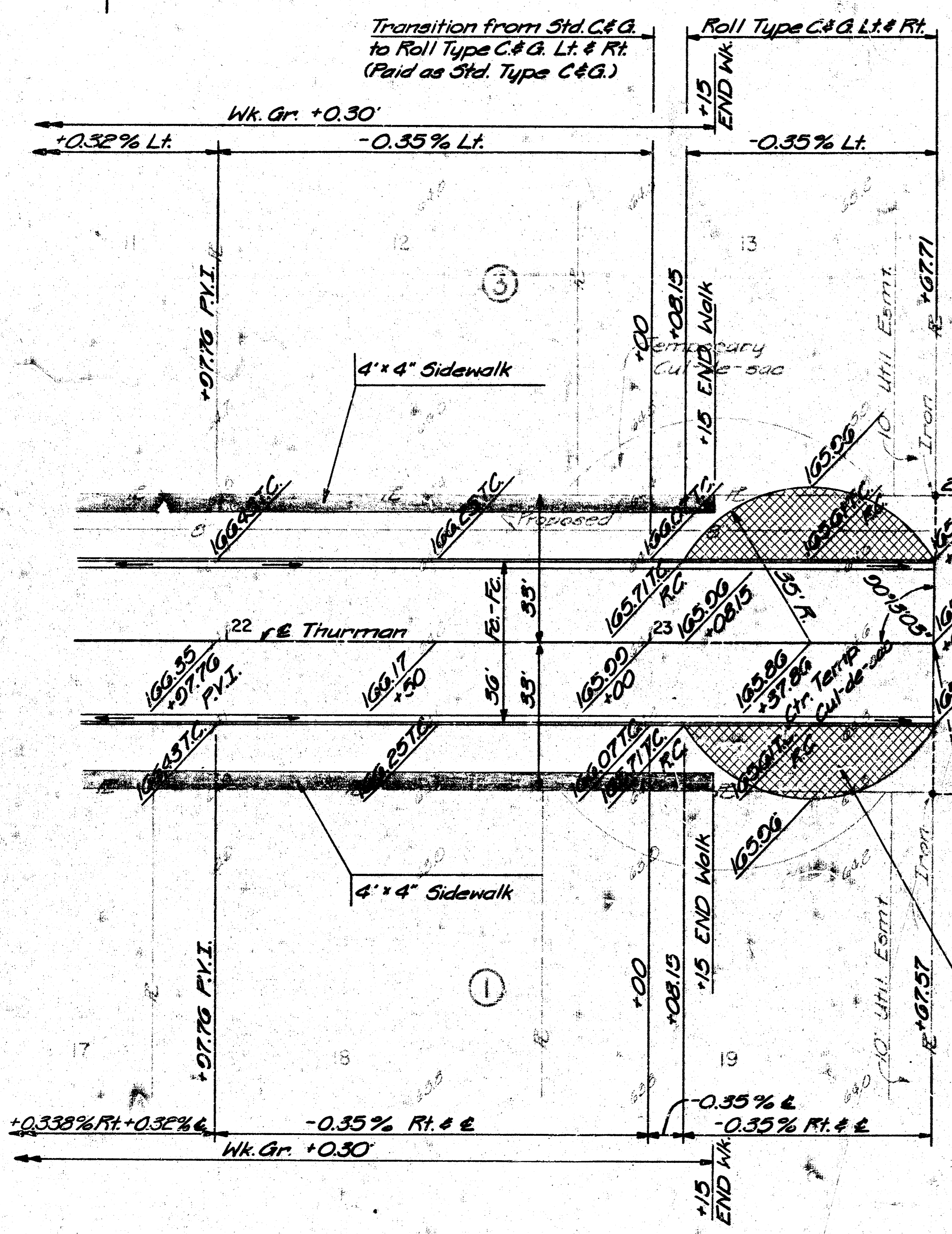
Add Evergreen, delete temp Cut de acc

City of WICHITA, KANSAS
THURMAN & ROBIN ROAD
 STREET IMPROVEMENTS
 PROJ. NO. 472-76-245-810-000-000-001
 PROFESSIONAL ENGINEERING CONSULTANTS, P.A.
 ENGINEERS
 WICHITA, KANSAS
 Designed by: O.D. BER
 Drawn by: GRH
 Job No: 80305
 Date: Nov. 1980

FILMED FROM THE BEST AVAILABLE COPY

SCALE 1"=20'

SCALE 1"=20'



EARTHWORK			
	EXCAVATION	COMPACTED FILL	MANIPULATION
PROPERTY	0.00 CY	219.26 CY	676.76 SY
10%	0.00 CY	21.05 CY	67.68 SY
Total	0.00 CY	240.31 CY	744.44 SY
CITY	0.00 CY	4.17 CY	37.25 SY
10%	0.00 CY	0.46 CY	3.73 SY
Total	0.00 CY	4.63 CY	40.98 SY

THE SHEET VOID AS OF 3-28-91

EARTHWORK			
	EXCAVATION	COMPACTED FILL	MANIPULATION
PROPERTY	6.90 CY	30.47 CY	814.63 SY
10%	6.10 CY	3.05 CY	81.46 SY
Total	6.90 CY	33.52 CY	896.09 SY
CITY	0.17 CY	0.00 CY	0.30 SY
10%	0.22 CY	0.00 CY	0.84 SY
Total	0.39 CY	0.00 CY	1.14 SY

CURVE DATA BASED ON RADIUS Δ/2 = 13° 00' 32.5"				
STATION	ARC LENGTH	CHORD LENGTH	DEFLECTION ANGLE	TOTAL DEFLECTION
20+65.48	—	—	0° 00' 00"	0° 00' 00"
20+75	9.52'	10.62'	1° 15' 24.5"	1° 15' 24.5"
21+00	25.00'	27.87'	3° 18' 02.5"	4° 33' 27.0"
21+25	—	—	7° 51' 29.5"	—
21+50	25.00'	27.87'	3° 18' 02.5"	11° 09' 32.0"
21+65.15	15.15'	16.80'	2° 00' 00.5"	13° 09' 32.5"

No.	Revision	By	Date
CITY OF WICHITA, KANSAS			
THURMAN & ROBIN ROADS			
STREET IMPROVEMENTS			
PROJ. NO. 472-76-245-81013-000-000-001			
ENGINEERS			
PROFESSIONAL ENGINEERING CONSULTANTS, P.A.			
WICHITA, KANSAS			
Designed by	DD, BEA	Job No.	80305
Drawn by	GRH	Date	Nov. 1990

