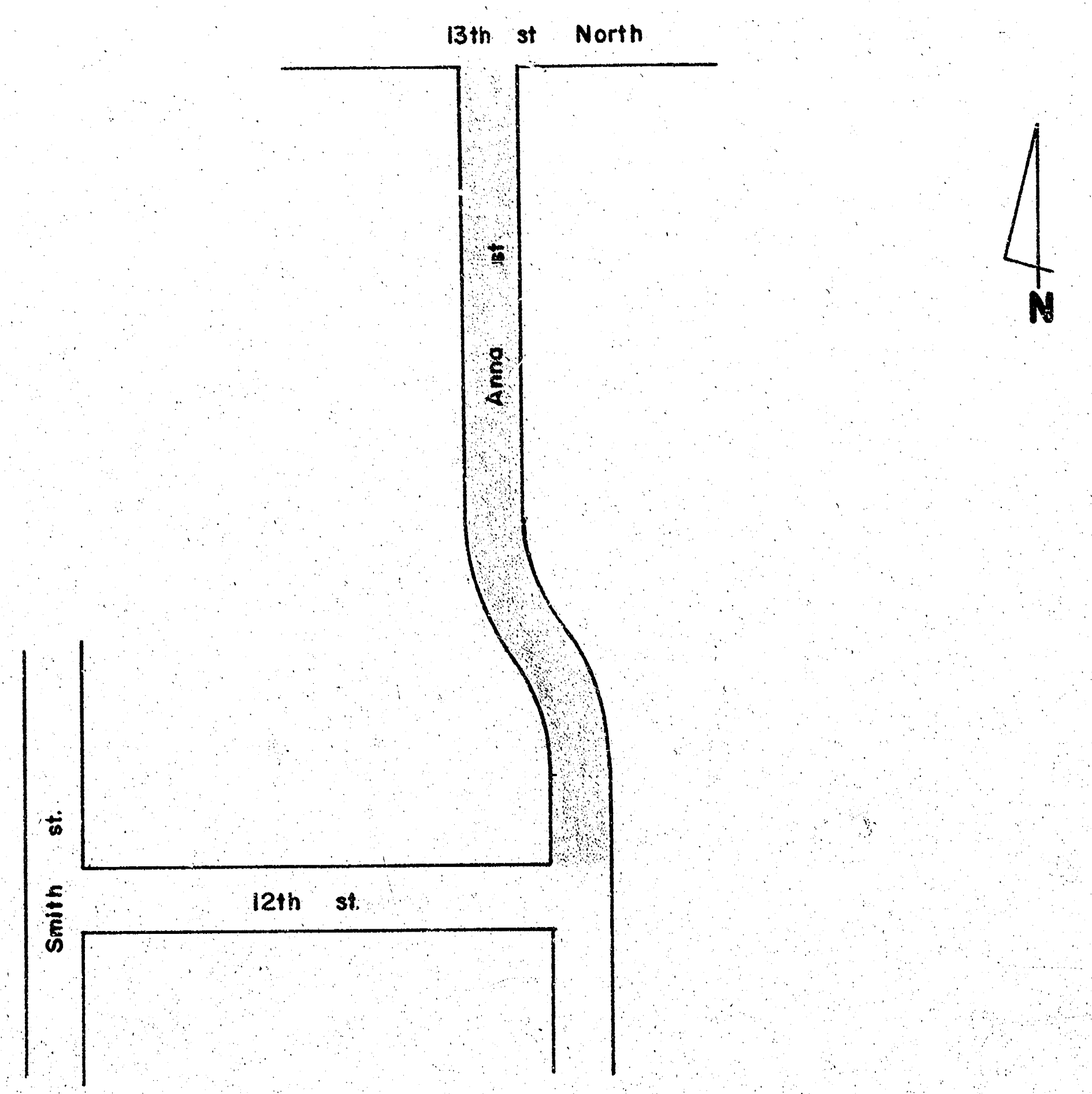
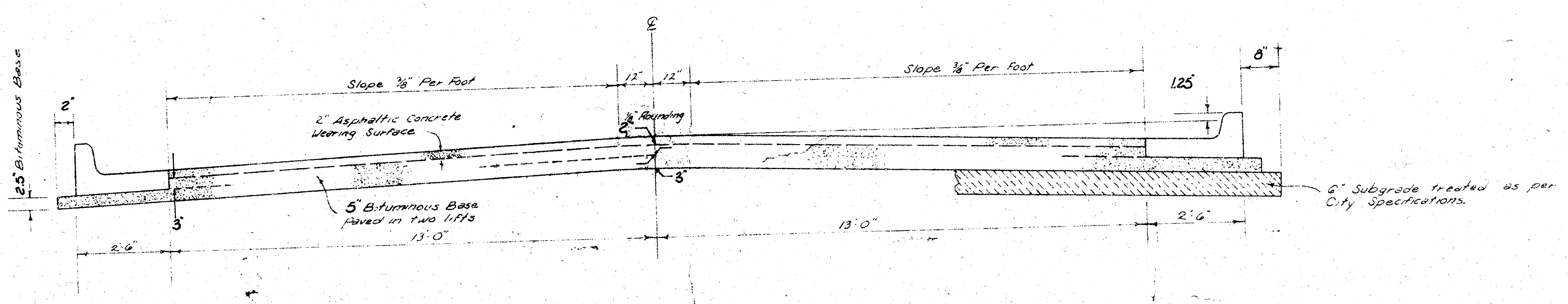
ANNA ST

NL 12th st to SL 13th st N.


13th st North
Anna st
Smith st.
12th st.
N

Department of Engineering
City of Wichita, Kansas
R. W. Bruggeman Director Engineering / City Engineer
Proj. no. 472-76-245-81079-000-000-001

STEPHEN R. LACKEY
7714


2.5" Bituminous Base
2"
Slope 3/8" Per Foot
12"
12"
℄
1/2" Rounding
2" Asphaltic Concrete Wearing Surface
2"
3"
3"
5" Bituminous Base Paved in two lifts
2'-6"
13'-0"
13'-0"
Slope 3/8" Per Foot
1.25"
8"
6" Subgrade treated as per City Specifications.
2'-6"

TYPICAL SECTION

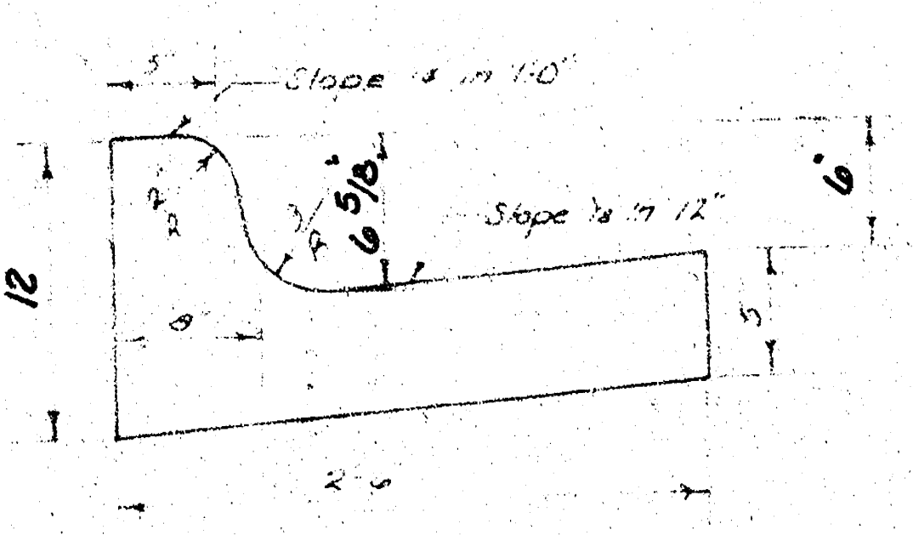
31' ASPHALTIC CONCRETE PAVEMENT WITH BITUMINOUS BASE

A TACK COAT OF EMULSIFIED ASPHALT (SS-1H) SHALL BE APPLIED AT AN APPROXIMATE RATE OF 0.05 GALLONS PER SQ. YD. 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.

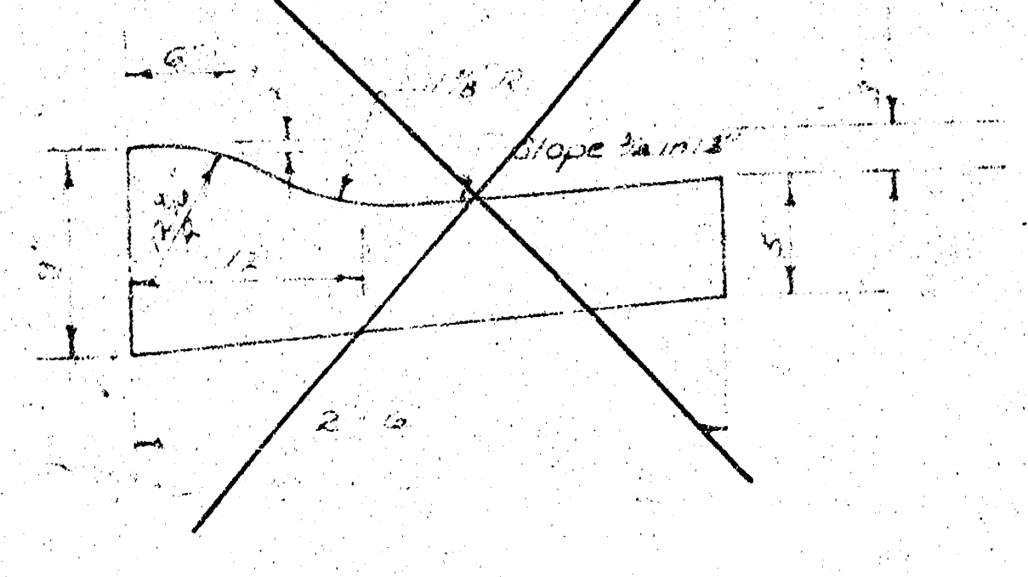
BITUMINOUS BASE AND ASPHALTIC CONCRETE WEARING SURFACE SHALL BE PLACED WITH A LAYDOWN MACHINE HAVING AUTOMATIC CONTROLS FOR CROWN AND GRADE. CONSTRUCTION JOINTS IN EACH LIFT SHALL BE STAGGERED A MINIMUM DISTANCE OF 1' WITH JOINTS IN PRECEDING LIFTS AND SUCH THAT A JOINT WILL BE CONSTRUCTED ON THE PAVEMENT CENTERLINE IN THE TOP LIFT.

The A.C. pavement between the Comb. Curb & Gutter shall be paid as Sq. Yds. 7" A.C. Pavement (5" Bituminous Base). The Bituminous Base under the Comb. Curb & Gutter shall be paid as Sq. Yds. 2.5" Bituminous Base.

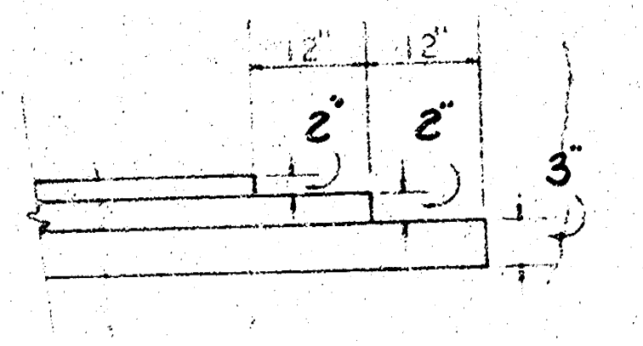
COMBINED CURB & GUTTER


5"
Slope 1/4 in 1'-0"
2"R
3"R
6 5/8"
6"
Slope 1/8 in 12"
12"
8"
5"
2'-6"

~~ROLL TYPE CURB & GUTTER~~


6"
7/8"R
Slope 1/8 in 12"
3/4"R
12"
5"
2'-6"

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.

CITY OF WICHITA, KANSAS
DEPARTMENT OF — ENGINEERING

DATE: ____________

2/6

BASELINE ON EAST PL

B.M. 126.934 CITY STD. ℄ BAKER & 13TH
B.M. 130.60 N.E. COR. CONC. PORCH HO.# 1355 N. ANNA. ON S.W. COR. ANNA & 13TH

No MORE THAN 22-20' DRIVES TO BE CONSTRUCTED ON THIS PROJECT.

Δ 37°09'00" R 231.99' T 77.96' L 150.41' L.C. 147.80'

CURVE DATA BASED ON ℄ PL RAD Δ/2 18°34'30"

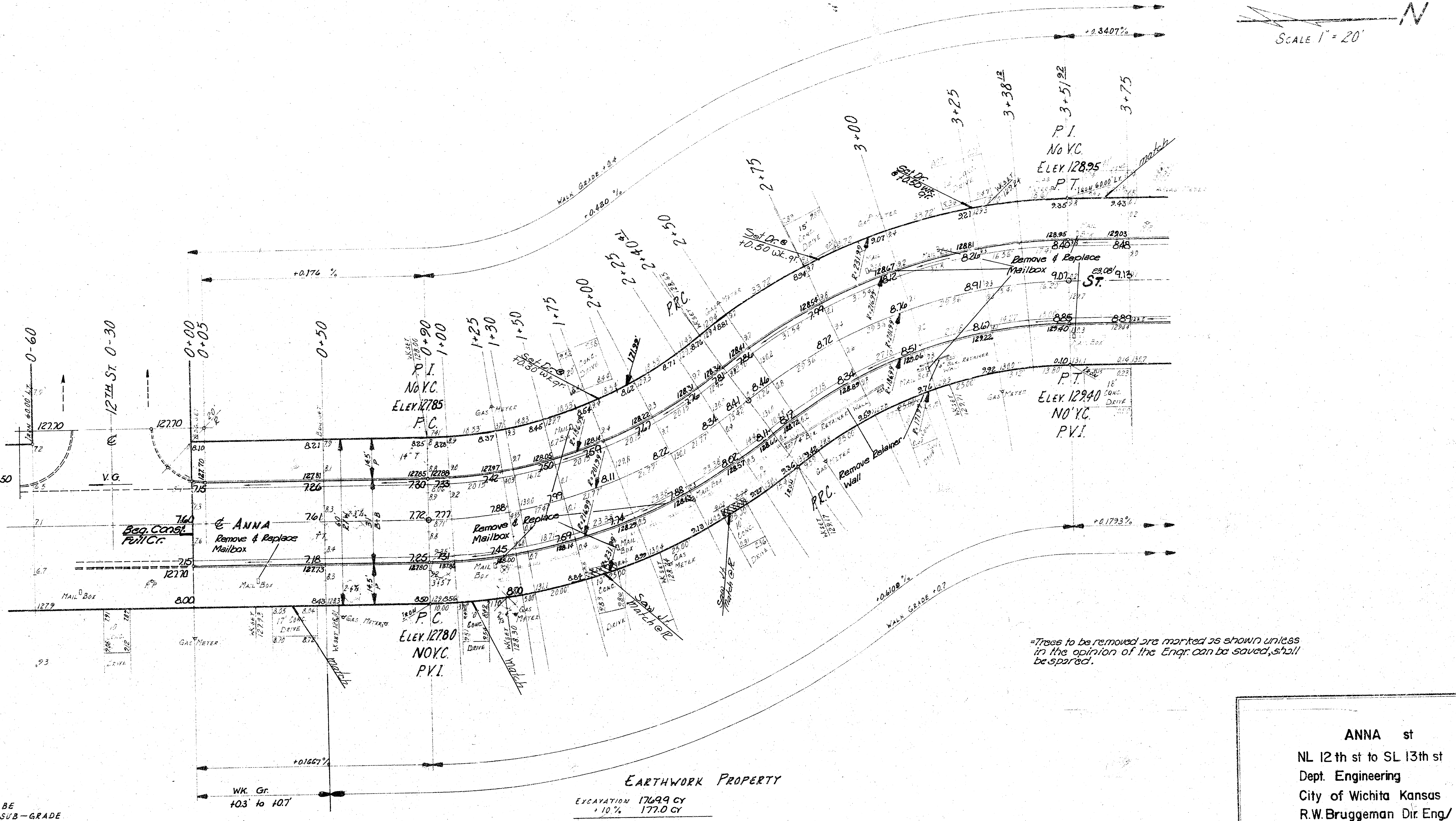
STA	ARC	8' Lt	8' Rt	DEFLECTION	TOTAL DEFLECTION
0+90	——	——	——	0°00'00"	0°00'00"
1+00	10.00	7.71	9.70	1°14'06"	1°14'06"
1+03.90	3.90	3.01	3.78	0°28'53"	1°42'59"
1+25	21.10	16.27	20.46	2°36'20"	4°19'19"
1+30	5.00	3.86	4.85	0°37'03"	4°56'22"
1+50	20.00	15.43	19.39	2°28'11"	7°24'33"
1+75	25.00	19.28	24.23	3°05'14"	10°29'47"
2+00	25.00	19.28	24.23	3°05'14"	13°35'01"
2+25	25.00	19.28	24.23	3°05'14"	16°40'15"
2+40.41	15.41	11.89	14.94	1°54'11"	18°34'26"

Δ 37°09'00" R 171.99' T 57.80' L 111.51' L.C. 109.57'

CURVE DATA BASED ON ℄ PL RAD Δ/2 18°34'30"

STA	ARC	8' Lt	8' Rt	DEFLECTION	TOTAL DEFLECTION
2+40.41	——	——	——	0°00'00"	0°00'00"
2+50	9.59	12.54	7.78	1°35'51"	1°35'51"
2+75	25.00	32.66	25.99	4°09'51"	5°45'42"
3+00	25.00	32.68	25.99	4°09'51"	9°55'33"
3+25	25.00	32.68	25.99	4°09'51"	14°05'24"
3+38.12	13.12	17.16	13.65	2°11'07"	16°16'31"
3+51.92	13.80	18.05	14.36	2°17'55"	18°34'26"

SURVEY GLANITZ ENGR CADMUS
PLAN E. NOWELL DR. C.L.G. '08
EXC. E. NOWELL
CHECKED


Scale 1" = 20'
N
+0.3407%
+0.480%
Walk Grade +0.4
+0.174%
0-60
12TH ST.
0-30
0+00
0+05
0+50
0+90
1+00
1+25
1+30
1+50
1+75
2+00
2+25
2+40.41
2+50
2+75
3+00
3+25
3+38.12
3+51.92
3+75
P.I.
No V.C.
Elev. 127.85
P.C.
P.I.
No V.C.
Elev. 128.95
P.T.
P.T.
Elev. 129.40
No V.C.
P.V.I.
P.C.
Elev. 127.80
No V.C.
P.V.I.
P.R.C.
P.R.C.
℄ ANNA
Beg. Const.
Full Cr.
Remove & Replace Mailbox
Remove & Replace Mailbox
Remove & Replace Mailbox
Remove Retainer Wall
Saw Match @ ℄
ST.
V.G.
Mail Box
Gas Meter
Drive
Match
+0.1793%
+0.6108%
Walk Grade +0.7
+0.1667%
Wk. Gr. +0.3' to +0.7'

=Trees to be removed are marked as shown unless in the opinion of the Engr. can be saved, shall be spared.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR PRESERVING PROPERTY IRONS. THE CONTRACTOR SHALL BE REQUIRED TO RE-ESTABLISH ANY PROPERTY IRONS WHICH ARE DAMAGED OR DESTROYED BY HIS CONSTRUCTION OPERATIONS. SUCH IRONS SHALL BE RE-ESTABLISHED BY A LICENSED LAND SURVEYOR OR A LICENSED PROFESSIONAL ENGINEER IN ACCORDANCE WITH STATE LAWS.

SUB-GRADE

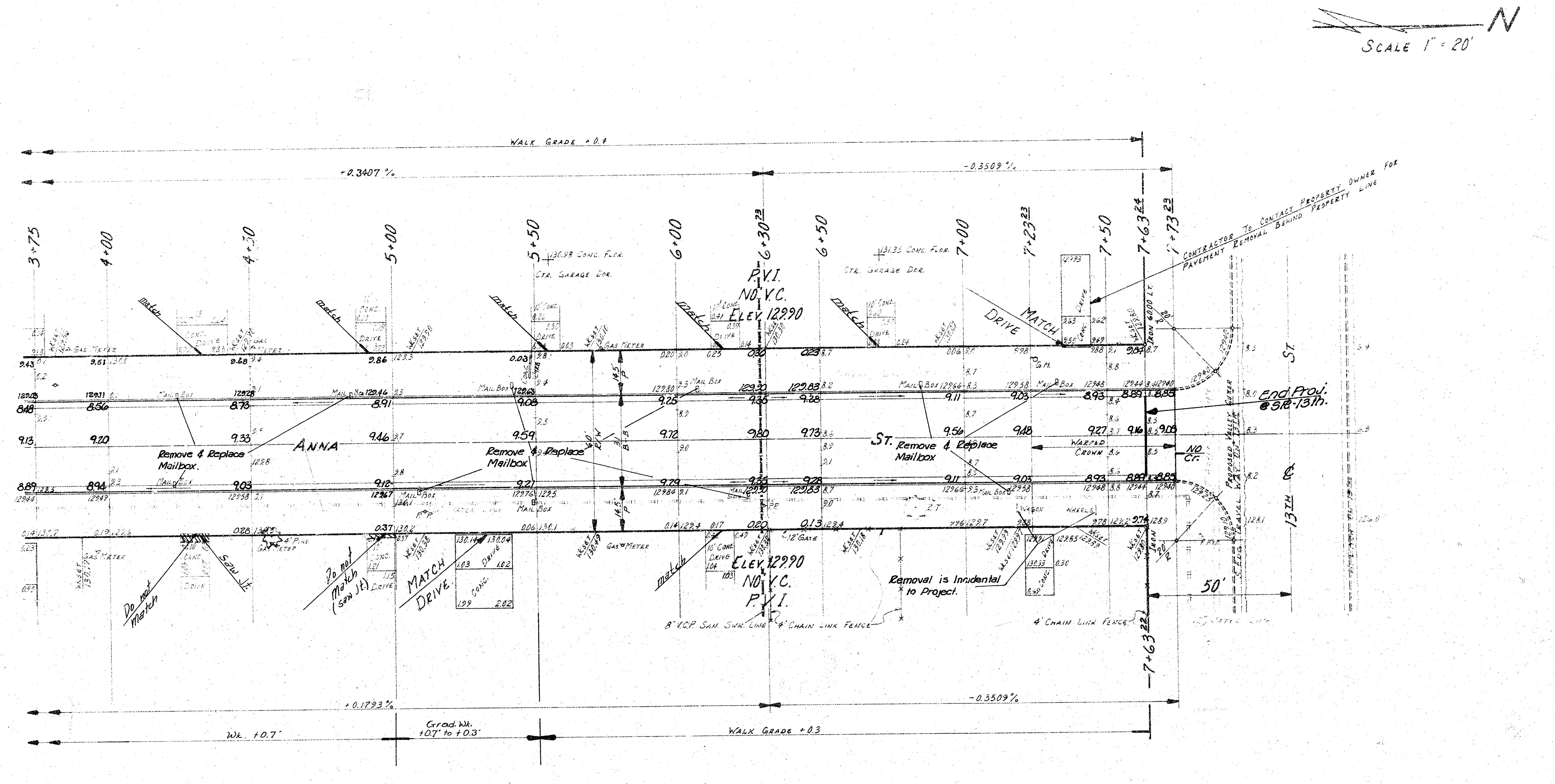
TYPE OF SUB-GRADE TREATMENT SHALL BE DETERMINED BY THE FIELD ENGINEER. SUB-GRADE TREATMENT MAY CONSIST OF LIME TREATMENT, CEMENT TREATMENT, SUB-GRADE MODIFICATION, OR ANY COMBINATION OF THESE.

EARTHWORK PROPERTY

EXCAVATION	1769.9 CY
+ 10%	177.0 CY
TOTAL	1946.9 CY

MANIPULATION (6" LIFT) 2732.4 SY

ANNA st
NL 12th st to SL 13th st
Dept. Engineering
City of Wichita Kansas
R.W. Bruggeman Dir. Eng./
City Eng. 3/6
Proj. no. 472-76-245-81079-000-000-001


N
SCALE 1" = 20'
WALK GRADE +0.4
+0.3407 %
-0.3509 %
3+75
4+00
4+50
5+00
5+50
6+00
6+30.73
6+50
7+00
7+23.23
7+50
7+63.24
7+73.23
7+63.22
P.V.I.
NO V.C.
ELEV. 129.90
ANNA
ST.
Remove & Replace Mailbox.
Remove & Replace Mailbox
Remove & Replace Mailbox
match
Do not match
Saw Jt.
Do not match (saw Jt.)
MATCH DRIVE
DRIVE MATCH
130.98 CONC. FLR.
CTR. GARAGE DOR.
131.35 CONC. FLR.
CTR. GARAGE DOR.
GAS METER
MAIL BOX
CONC.
DRIVE
10' CONC. DRIVE
4' PIPE
12' GATE
14.5' P
14.5' P
60' R/W
31' B-B
WARPED CROWN
NO Cr.
End Proj. @ STA. 13th.
CONTRACTOR TO CONTACT PROPERTY OWNER FOR PAVEMENT REMOVAL BEHIND PROPERTY LINE
IRON 60.00 LT.
IRON
20' R
20' R
PROPOSED VALLEY GUTTER
S. EDG. TRAVEL WAY 13TH
13TH ST. ℄
50'
WAGON WHEELS
Removal is Incidental to Project.
8" V.C.P. SAN. SWR. LINE
4' CHAIN LINK FENCE
4' CHAIN LINK FENCE
G.M.
+0.1793 %
-0.3509 %
Wk. +0.7'
Grad. Wk. +0.7' to +0.3'
WALK GRADE +0.3
9.43
9.51
9.68
9.86
0.03
0.20
0.25
0.30
0.23
0.06
9.98
9.88
9.84
129.03
8.48
129.11
8.56
129.28
8.73
129.46
8.91
129.63
9.08
129.80
9.25
129.90
9.35
129.83
9.28
129.66
9.11
129.58
9.03
129.48
8.93
129.44
8.89
129.40
8.85
9.13
9.20
9.33
9.46
9.59
9.72
9.80
9.73
9.56
9.48
9.27
9.16
9.08
8.89
8.94
9.03
9.12
9.21
9.29
129.44
129.49
129.58
129.67
129.76
129.84
0.14
0.19
0.28
0.37
0.06
0.14
0.17
0.20
0.13
9.96
9.78
9.74

SURVEY GLANITZ ENGR. CADMUS
PLAN E. HOWELL BK. C.L.G. 08
ENG. E. HOWELL
CHECKED

81073.

ALL PROPERTY

MEASURED QUANTITIES FOR FINAL ESTIMATES ON PAVING

Form KB-066

STREET NAME Anna st. FROM NL 12th st TO SL 13th st CONTRACTOR MID KANSAS CONSTR. KIND OF PAVEMENT 7" AC w/5" BIT

SQ. YDS. 7" AC w/5" BIT

Sta.	Width	Dist.	Av. Width	Area	Square Yards Pavement
0+00	26.0	763.45	26.0		
7+63 45	26.0	1X0.96			
		19,851.62			2,205.7 SY

SQ. YDS MANIP

3.17 X 1,526.9
1 X 19,851.62
24,691.893 2,743.5 SY

SQ. YDS. 2½" BIT. BASE

2.67 X 1,526.9 ÷ 9 = 453.0 SY

TONS CEMENT
(42#/SY)
CALC = 57.6 T
TICKETS = 58.3 T (USE)

Excavation (Prop.)

End Area At Station	End Area Area	Dist.	Av. Area	Volume	Cubic Yards Excavation		6" DRIVE
0+00	40.8	50	52.4		106.3	X	LS 450
+50	73.9	40	96.2		142.5	X	188
+90	118.4	8.7	126.4		40.7	X	283
1+00	134.3	26.1	158.5		153.2	X	340
+30	182.6	17.4	180.6		116.4	X	296
+50	178.6	21.8	165.0		133.2	X	291
+75	151.3	"	145.9		117.8	X	245
2+00	140.4	21.8	140.3		113.3	X	217
+25	140.1	13.4	141.1		70.0	X	330
+40 41	142.0	11.3	139.5		58.4	X	378
+50	136.9	29.4	118.1		178.6	X	RS 288
+75	99.2	"	78.4		85.4	X	203
3+00	57.5	29.4	58.4		63.6	X	333
+25	59.3	31.6	68.5		80.2	X	323
+51 92	77.7	23.1	66.1		56.6	X	208
+75	54.5	25	49.4		45.7	X	327
4+00	44.2	50	43.0		79.6	X	307
+50	41.7	"	39.4		73.0	X	190
5+00	37.0	"	29.8		55.2	X	337
+50	22.6	"	13.5		25.0	X	304
6+00	4.3	"	2.8		5.2	X	374
+50	1.2	"	2.1		3.9	X	6,212 SF
7+00	2.9	50	3.2		5.9	X	
+50	3.4	13.2	2.4		1.2	X	
+63 23	1.3	10'	0.9		~~9.0~~	0.3	
+73 23	0.5						
					~~[illegible]~~	1761.2	

SQ. FT. WK & DR. REM.
2.5 x 10.0
3.0 x 10.0 } 55.0 S.F.

OVERHAUL (SEE PROJ. MEMO)

1,761/3,798 X 48 X 2.64 = 58.76
X 36 X 15.84 = 264.40
X 3,714 X 31.68 = 54,554.61
$0.05 X 54,877.77 = $2,743.89

CHECK 1761/3798 X (118,356.4 X .05)
= 2,743.89

7-10-81

RET. WALL REM.
55 LF (PLAN)

Measured By	GREENE
Date	AUG 82
Book No.	11-A
Finaled By	TATE

	SQ YD MANIP	TONS CEMENT		2½" BIT.	Steel	Square Yards 7" Pavement AC	Int. Cb.	C & G	Sep. Cb.	Sep. Gtr.	6" Wk.	6" Dr.	Cubic Yards Excavation	MB REP	LG. TR. REM.	SM. TR. REM.	RET. WL. REM.	WK & DR REM	Insp.	Publ.	Abstr.	Appve.
Property	2,744	58		453		2,206		1,526.9				6,212	1,761	21	1	9	55	55				
City	~	~		~		~		~				~	~	~	~	~	~	~				
Totals																						
Unit Prices																						
Total Cost																						

[illegible]

TATE
AUG 82

STATEMENT OF COST

PROJ. NO. 472 76245 81079000 000 DY

P.E.
$1,856.00

FOR CONSTRUCTION OF: ANNA ST. ~ N.L. 12TH TO S.L. 13TH

WORKING DAYS ~ OK '

QUANTITIES			UNIT	CONSTRUCTION	COSTS		
PROP.	**CITY**	**TOTAL**	**PRICE**	**ITEM**	**PROP.**	**CITY**	**TOTAL**
2,206	0	2,206	9.37	SQ YDS. 7" R.C. PVMT. (5" BIT. BASE)	20,670.22	0.00	20,670.22
453		453	3.35	SQ YDS. 2½" BITUMINOUS BASE	1,517.55		1,517.55
1,527		1,527	6.00	LIN. FT. COMB. CURB & GUTTER	9,162.00		9,162.00
1,761		1,761	2.17	CU.YDS. EXCAVATION	3,821.37		3,821.37
6,212		6,212	2.65	SQ. FT. 6" DRIVE	16,461.80		16,461.80
2,744		2,744	1.00	SQ. YDS. MANIPULATION	2,744.00		2,744.00
58		58	78.39	TONS CEMENT	4,546.62		4,546.62
21		21	30.00	MAILBOXES REMOVED & REPL.	630.00		630.00
52		55	0.10	LIN. FT. RETAINING WALL REMOVED	5.50		5.50
55		55	0.35	SQ FT. WK & DR. REMOVED	19.25		19.25
1		1	1.00	LARGE TREE REMOVED	1.00		1.00
9	0	9	0.75	SMALL TREES REMOVED	6.75	0.00	6.75
			L.S.	OVERHAUL	2,743.89		2,743.89
				SUBTOTAL	62,329.95	0.00	62,329.95
				ENGINEERING AND INSP.	6366.37	-	6366.37
				ADMINISTRATION	934.95	-	934.95
				STREET NAME SIGNS	-	53.75	53.75
				PUBLICATION	110.96	-	110.96
				ABSTRACTING	8.25	-	8.25
				CONSTRUCTION COST	69,750.48	53.75	69,804.23
				TEMP. NOTE INT.	4663.73	-	4663.73
	6/83						
				TOTAL COST	$74,414.21	$ 53.75	$74,467.96