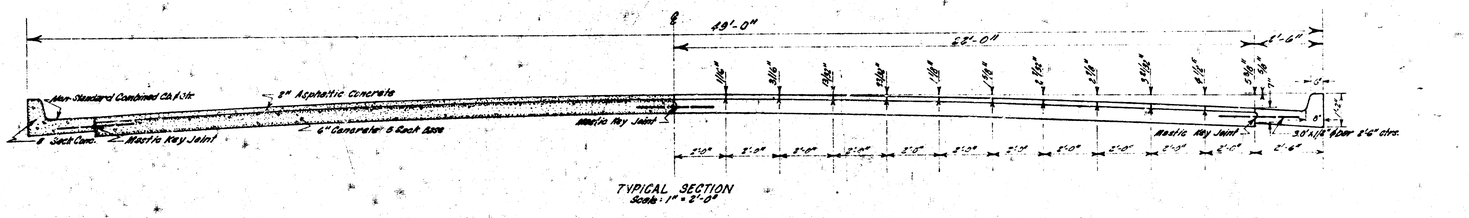
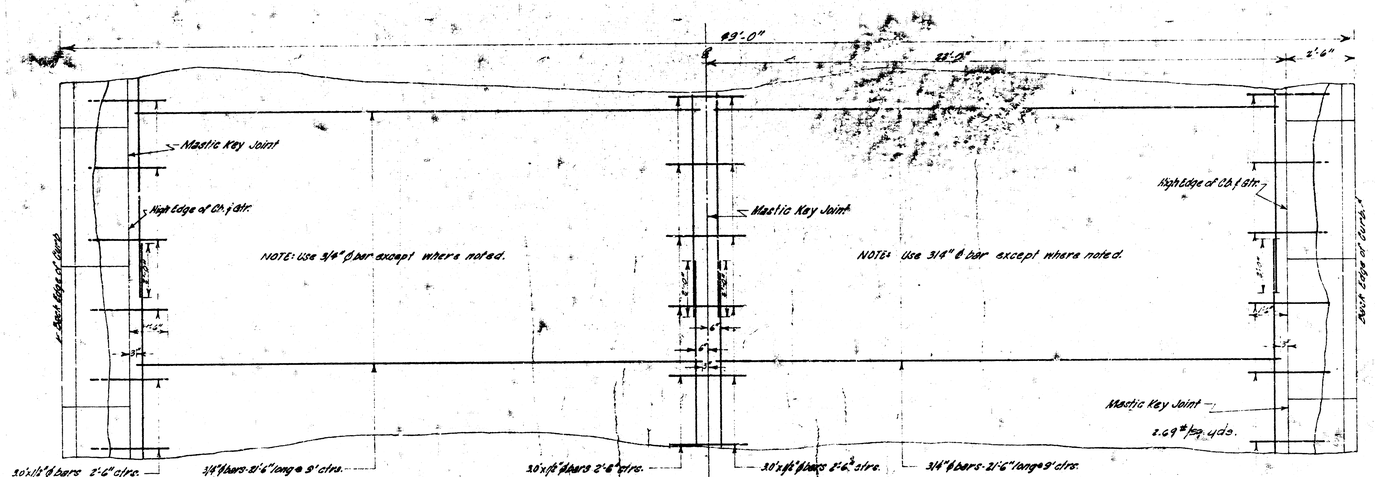
THIRTEENTH STREET

FROM E.L. HILLSIDE AVE. TO E.L. VESTA DRIVE — PROJECT NO. C 16-1

B.E. SMITH CITY ENGINEER — CITY OF WICHITA, KANSAS



TYPICAL SECTION
Scale: 1" = 2'-0"



STEEL PATTERN
Scale: 1" = 2'-0"

JAMES C. KAPPELMAN
LICENSED
PROFESSIONAL
ENGINEER
2012
STATE OF KANSAS

B.M. 171.75 "a" cut on S.W. corner Texaco Sign base on N.E. corner 13th & Hillside

B.M. 181.50 R.R. Spike S. side 10" Elm Tree E. Side Holyoke & 14' N. of N.L. 13th

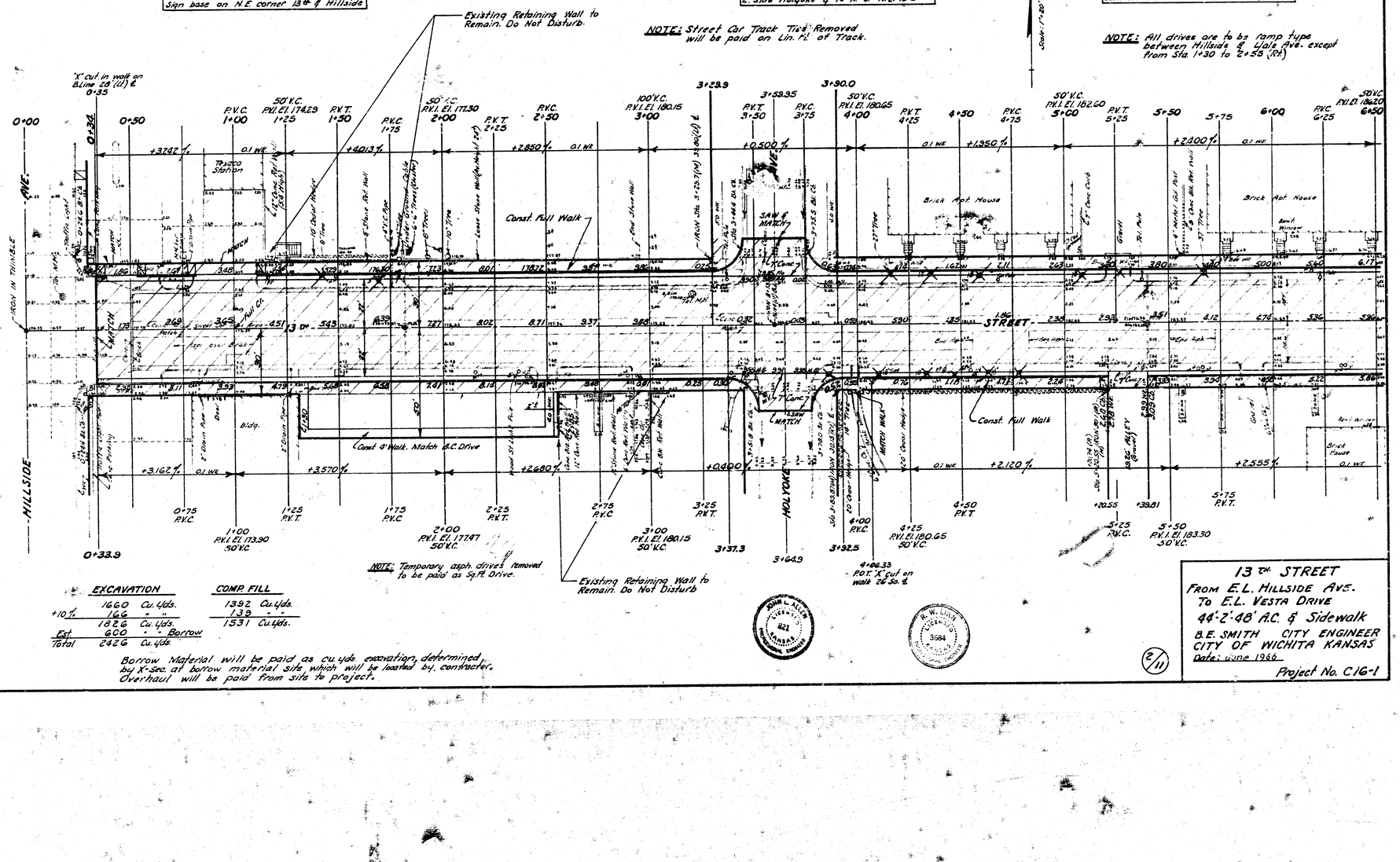
B.M. 187.57 R.R. Spike on N.E. side large Elm tree on S.W. cor. Fairmount & 13th

NOTE: Street Car Track Ties Removed will be paid on Lin. Ft. of Track.

NOTE: All drives are to be ramp type between Hillside & Lisle Ave. except from Sta. 1+30 to 2+55 (Rt.)

N

Scale 1"=20'



EXCAVATION		COMP. FILL
1660	Cu. Yds.	1392 Cu. Yds.
+10% 166	"	139 "
1826	Cu. Yds.	1531 Cu. Yds.
Est. 600	" Borrow	
Total 2426	Cu. Yds.	

Borrow Material will be paid as cu. yds. excavation, determined by X-Sec. of borrow material site which will be located by contractor. Overhaul will be paid from site to project.

Survey J.C.A. Bk. 720
Plans W.L.H. Pg.
Ex. Checked

JOHN C. ALLEN LICENSED 821 KANSAS PROFESSIONAL ENGINEER

W. W. WINN LICENSED 3584

2/11

13th STREET

FROM E.L. HILLSIDE AVE. TO E.L. VESTA DRIVE

44'-2'-48' A.C. & Sidewalk

B.E. SMITH CITY ENGINEER
CITY OF WICHITA KANSAS
Date: June 1960

Project No. C-16-1

B.M. 188.07 "X" Cut on back walk North on E. side Vassar ℄ 7'N. of N.L. 13th St.

Const. Ret Wall (Lt.) Approx. Stations 12+65 to 13+25 - Vary height (h) as required.

"X" on Base Lines 28'N. & 20'W. ℄ 11+08.92

P.O.T. "X" on walk 28'N. of ℄ 13th 6+83.77

P.O.T. "X" on walk 38'(Lt) Large Nail on ℄ 9+37.49

50' V.C. P.V.I. El. 186.20 6+50

P.V.T. 6+75

6+87.3

P.V.C. 7+20

65.2' V.C. P.V.I. El. 188.20 7+32.6

7+47.6

P.V.T. 7+85.2

8+00

P.V.C. 8+25

8+50

8+75

150' V.C. P.V.I. El. 183.40 9+00

9+25

9+50

P.V.T. 9+75

10+00

10+49.8

P.V.C. 10+73.85

11+09.3

11+25

180.3' V.C. P.V.I. El. 186.40 11+50

11+75

12+00

P.V.T. 12+20.15

12+50

13+00

+2.400 %

+1.348 %

0.1 wk.

+3.528 %

−2.800 %

−4.821 %

0.1 wk.

Const. Ret. Wall (h = 2'-0")

Const. New Steps

MATCH

FAIRMOUNT AVE.

VASSAR AVE.

STREET

+2.555 %

+3.191 %

−2.840 %

−4.400 %

Fill Gutter South With Asphalt

Store Ent. Dirt Floor

Match @ P.L.

Store Ent. Conc. Floor

Brick House

Frame Garage

Widen drive to match garage.

6+83.7

7+19.6 P.V.C.

6+83.77 P.O.T. "X" cut on wall on B.Line 26'(Rt) ℄

7+48.6 P.V.I. El. 188.40 60' V.C.

7+79.6 P.V.T.

8+25 P.V.C.

9+00 P.V.I. El. 193.20 150' V.C.

9+37.49 "X" on Wk. 26'(Rt) ℄

9+75 P.V.T.

10+49.5

10+79.6

11+09.7 P.V.C.

11+50 P.V.I. El. 186.10 80.6' V.C.

11+90.3 P.V.T.

C 16-1

3/11

B.M. 175.87 R.R. Spike S. side Large Elm Tree N. side 13th approx 35' W. of W.L. Yale N.

B.M. 171.99 N.W. cor. conc. porch brick apartment #3623 E. 13th

Set Walk, Grade & Drive 0.1 above P/G

80' V.C. P.V.I. El. 172.90 14+30

P.V.C. 13+90

P.V.T. 14+70

14+02.3

14+52.4

13+00 13+25 13+50 13+75 14+00 14+25 14+50 15+00 15+25 15+50 15+75 16+00 16+25 16+50 16+75 17+00 17+25 17+50 17+75 18+00 18+25 18+50 18+75 19+00 19+25 19+50

-4.821% 0.1 WK. -0.909% 0.1 WK. +0.900% +1.550% +3.767%

YALE AVE.

YALE BLVD.

146' V.C. P.V.I. El. 170.90 16+50

50' V.C. P.V.I. El. 171.60 17+50

100' V.C. P.V.I. El. 173.35 18+50

P.V.T. 17+23

P.O.T. Tacked Stake 20' N. & 17+24.33

17+07.7±

P.V.T. 17+75

P.V.T. 19+00

Set Dia. 07

Const. 4' Walk back Curb

Const. 4' Walk

Brick House

Brick Apt. Bldg.

Conc. Porch

Brick Apt. Bldg.

Brick Apt. Bldg.

42G STREET

-6.600% -6.917% -0.895% +1.062% +2.400% +2.671%

13+25 P.V.C.

13+75 P.V.T. & P.V.C.

13+50 P.V.I. El. 177.30 50' V.C.

14+04.93 P.O.T. "X" on walk 8.L. 26.3 & 20.3 ±

14+16.5 P.V.I. El. 172.70 85' V.C.

14+76.5 ±

14+88 P.V.T.

15+90 P.V.C.

16+40 P.V.I. El. 170.70 120' V.C.

17+00 P.V.T.

17+50 P.V.C.

17+24.33 P.O.T. on Base Line 20 S. & 38 W. ±

18+00 P.V.I. El. 172.90 100' V.C.

18+50 P.V.T. & P.V.C.

19+00 P.V.I. El. 174.80 100' V.C.

19+50 P.V.T.

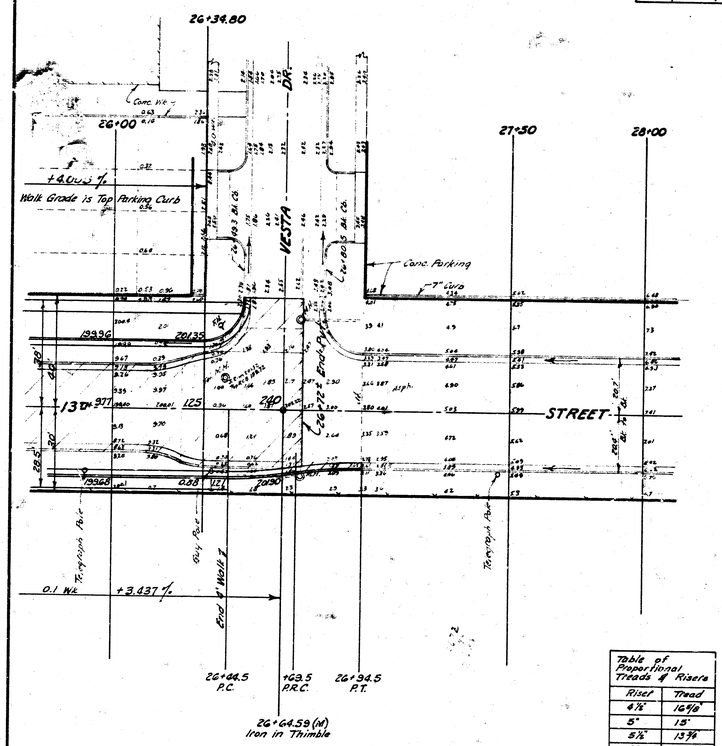
Remove block wall & rail fence east of west P.L. Yale & Sr. 20 dist. to match new pavement.

NOTE: Repair bad places in existing sidewalk.

C 16-1

4/11

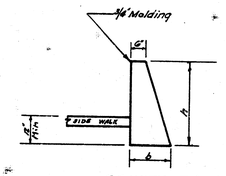
B.M. 202.62 "6" cut top conc. coping S.E. corner conc. parking on N.W. cor. Vesta Dr. & 13th St.



N

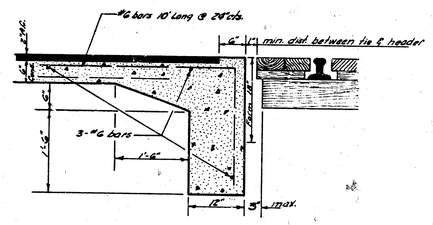
Scale: 1" = 20'

Const. tar paper keyed const. joint @ 20' intervals and 1" premolded exp. joint @ 100' (max.) spacing



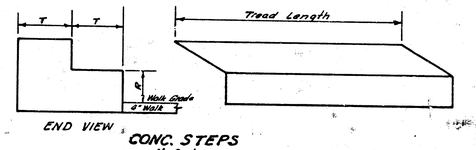
Dimensions		Cum./L.Ft.
h	b	Cu. Yds.
1'-9"	11"	.045
2'-0"	13"	.059
2'-3"	15"	.073
2'-6"	17"	.089
2'-9"	18½"	.104
3'-0"	20"	.120

GRAVITY TYPE (Conc) RETAINING WALL



DETAIL OF CONC. HEADER FOR R.R. CROSSING
Not to Scale

Table of Proportional Treads & Risers	
Riser	Tread
4¾"	16⅜"
5"	15"
5¼"	13⅞"
6"	12⅛"
6¼"	11⅜"



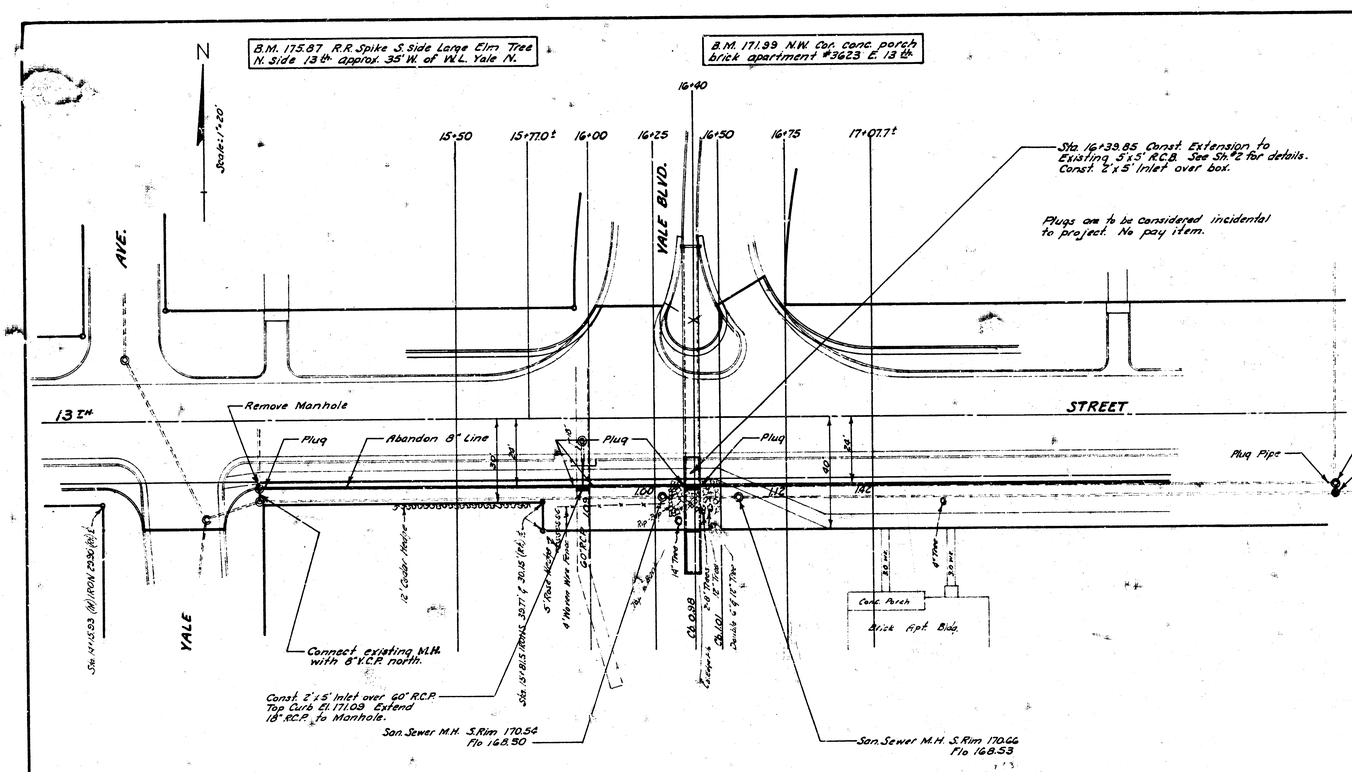
END VIEW

CONC. STEPS
No Scale

Bid Item for Lin. Ft. of Conc. Steps is the total Lin. Ft. of tread lengths constructed.

C 16-1

6/11



Manholes & Inlets to be adjusted for grade

Station	Existing Elevation	New Elevation
1+82	176.04 ±	176.63
2+21	178.37 ±	178.07
5+40	S. Rim 183.34	183.27
8+33.5	S. Rim 191.76	192.08
12+20	S. Rim 180.78	181.13
14+75	S. Rim 172.65	172.55
16+75±	S. Rim 172.70	172.26
15+97	S. Rim 170.90	171.14
19+30	S. Rim 173.73	173.18
23+89.3	183.5 ±	183.40
24+28	(Inlet) Curb 194.34	194.60

See Pavement Plan for Stations

BILL OF MATERIALS

	Item	Quantity	Unit
Lump Sum Items	Class A-AE Concrete	20.8	Cu. Yds.
	Reinf. Steel	1185	Lbs.
	R.C. Box Removed	11	Lin. Ft.
	Excavation & Compacted Fill	*	
	R/W Clearance (Rip-Rap, Trees, etc.)	*	
Unit Bid Items	2'x5' Inlets	2	Ea.
	Brick Manholes	1	Ea.
	8" V.C.P.	10	Lin. Ft.
	18" R.C.P.	10	Lin. Ft.
	Manholes & Inlet Adj. to grade	11	Ea.
	Inlets Removed	2	Ea.
	Manholes Removed	1	Ea.

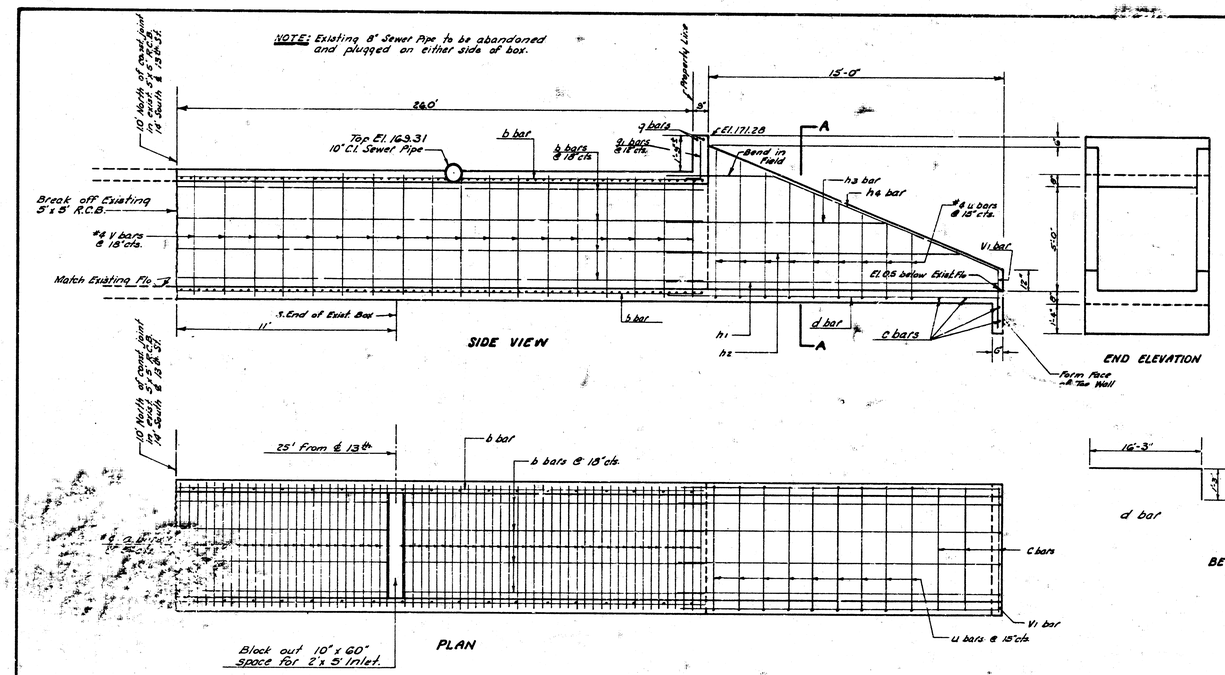
* NOTE: All excavation, compacted fill and R/W clearance necessary for the satisfactory completion of the R.C.B. extension shall be considered incidental to same.

INCIDENTAL DRAINAGE
13TH St. from E.L. Hillside to E.L. Vesta Dr.

B.E. SMITH CITY ENGINEER
CITY OF WICHITA, KANSAS

Date: June 1966 Project No. C16-1

Sheet #1 of 2



REINF. STEEL SCHEDULE

Bar	a	b	c	d	g	g1	h1	h2	h3	h4	u	V	Vi
Size	#6	#6	#6	#6	#6	#6	#6	#6	#6	#6	#3	#3	#6
No.	128	16	4	4	2	7	2	2	2	2	9	36	2
Length	5'-10"	26'-6"	6'-0"	17'-6"	5'-10"	*	16'-3"	14'-8"	11'-0"	17'-8"	*	5'-10"	2'-8"

*See bending diagrams for lengths.

5'x5' R.C. BOX CULVERT EXTENSION
Sta. 16+39.85
13TH St. from E.L. Hillside to E.L. Vesta Dr.
Project No. C16-1

Sht. #2 of 2