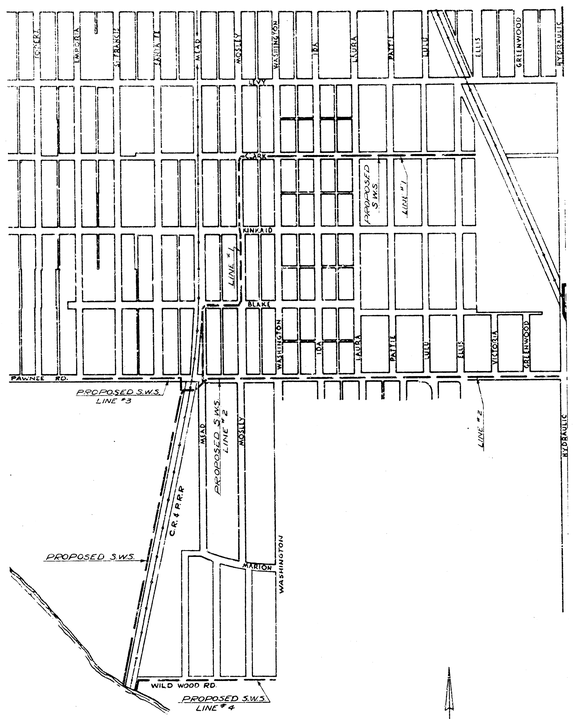


STORM WATER SEWER '48

CITY OF WICHITA, KANSAS

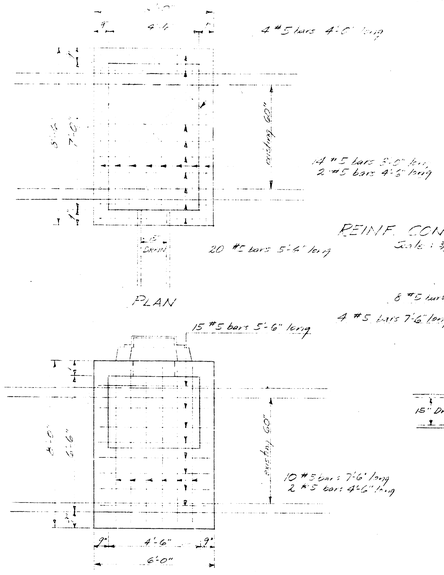
L.K. WHITE, CITY ENGINEER

1948

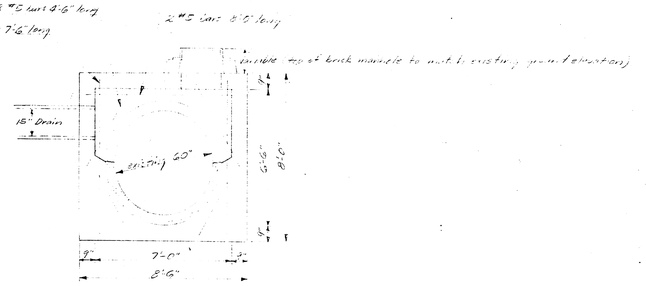
PLAN SCALE - 1" = 100'

PROFILE SCALE - 1" = 60'

1/9



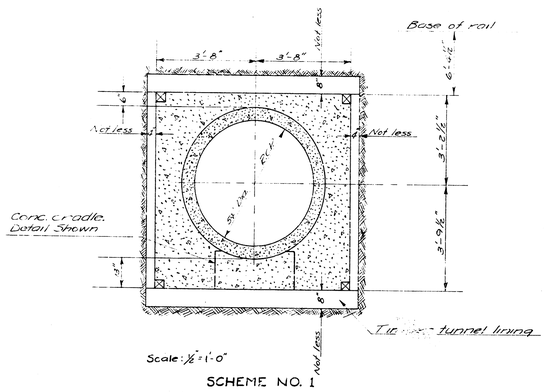
NOTE: Remove top cone of existing 66" S.M.S. through new manhole, match top of 15" drain with top of existing 50" R.C.P.



REINF. CONC. MANHOLE
Scale: 3/8" = 1'-0"

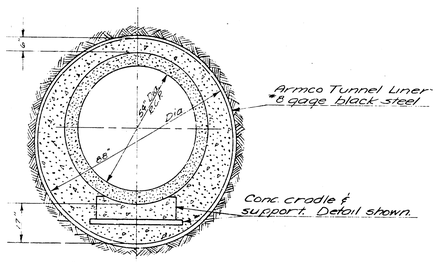
REINF CONC MANHOLE
STORM WATER SEWER NO 30
FOR
PRIVATE STORM DRAIN CONNECTION
S.E. OF PAWNEE & ST FRANCIS

OPTIONAL TUNNELING DETAILS
S.W.S. #33



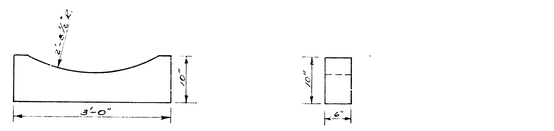
Scale: ½"=1'-0"

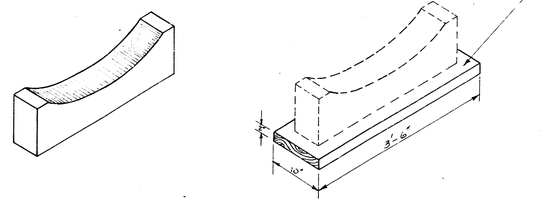
SCHEME NO. 1



Scale: ½"=1'-0"

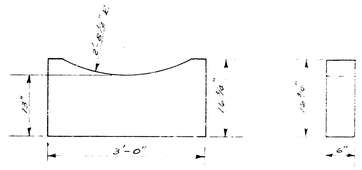
SCHEME NO. 2

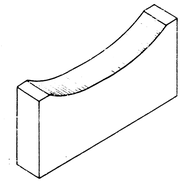




Scale: 1"=1'-0"

DETAIL OF CRADLE & SUPPORT FOR SCHEME NO. 2





Scale: 1"=1'-0"

DETAIL OF CRADLE FOR SCHEME NO. 1

NOTE: 150' R.R. R/W. extends North 1197.5' from the end of stringers at the extreme North end of bridge. North end of bridge equals Sta. 0-05.0 on S.W.S. plan.

SCALE: 1" = 100'

N

BIG ARKANSAS RIVER

0+85 S.W.S. Datum

0+85 S.W.S. Datum

60" E.C.P.

CHICAGO & ROCK ISLAND, PACIFIC R.R.

S.W.S. Line #4

SANTA FE AVE.

MEAD AVE.

MOSLEY AVE.

WASHINGTON AVE.

MARION RD.

3+58 M.H.

3+98 M.H.

7+36.4 M.H. S.W.L. Santa Fe 2'x5' C.B.S.

10+36.4 M.H. S.W.L. Mead 2'x5' C.B.S.

13+36.4 M.H. S.W.L. Mosley 2'x5' C.B.S.

16+36.4 M.H. 16+56.4 W.L. Washington 2'x5' C.B.

Remove 6-18" Cbonwd Trees

11+92.5 Beg. 110' E/W 12+10 Beg. Bend in S.W.S.

Remove 10-7" Trees

13+10 End Bend in S.W.S.

Remove 21-6" Trees

Remove 10-8" Trees

Remove 55-4" Trees

Remove 12-6" Trees

Existing 42" S.S. 22.6.3 Sec. Line

3+52.6 M.H.

Existing 18" S.S. 21.3 N Sec. Line

18+23.0 M.H. 26+22.0 Existing 36" S.S.

Existing 36" S.S. 28.6.3 Sec. Line

Existing 18" S.S. 21.3 N Sec. Line

26+74.0 M.H.

29+21.6 R.R. R/W.

29+66.0 M.H.

Equation 30+39.8 = 33+01.0 Ahead

1496.8 Existing 8" S.S.

3+69.6 M.H.

5+70.1 Existing 8" S.S.

7+36.6 M.H.

1045'

1172.4'

1112.8'

1064.6'

1064.6'

1000'

994.8'

983.25'

1495.3'

1518'

1603.1'

1611.75'

1630.0'

1021'

1092'

1240'

1200'

2'x2'

2'x5' C.B.

2 / 9

MEAD

S.W.S. Line 1/4

30 Ave. C. M.H.

42"x27" L.M.H. & L.W.L. Mo.Hwy

2'x3' C.B.

KINKAID

CLARK

AVE.

MOSLEY

42" R.C.P.

43126.5 M.H.

43126.0 Repair Cut I.C.

43150.5 End Cut I.C.

Conc. to be removed & replaced

2'x3' C.B.S.

BLAKE

610'

600'

60.96'

2'x3' C.B.

2'x5' C.B.

56760.8 Begin Cut I.C.

56749.7 End Cut I.C.

Conc. to be removed & replaced

56799.2 M.H.

2'x3' C.B.

2'x5' C.B.

2'x6' C.B.

WASHINGTON

590'

38155.5 Existing 8" S.S.

2'x5' C.B.

60150.0 M.H.

60149.0 Begin Cut I.C.

60169.1 End Cut I.C.

Conc. to be removed & replaced

2'x5' C.B.

2'x6' C.B.

62419.0 Existing 8" S.S.

IDA

63168.8 M.H.

2'x6' C.B.

2'x5' C.B.

ST.

65179.0 Existing 8" S.S.

67124.5 M.H.

LAURA

2'x5' C.B.

50'

84.79'

219.21'

264'

84.60'

69122.0 Existing 8" S.S.

70150.3 M.H.

2'x5' C.B.

Note: Hook up existing 595' catch basin in abandoned line to North.

PATTIE

72+45.6 Existing 8" S.S.

73176.2 M.H.

2'x5' C.B.

LULU

89.32'

89.13'

2'x5' C.B.

ELLIS

89.09'

132.0±

331.8'±

0.399'

77+14.3 M.H.

100' Rt. Ellis

2'x5' C.B.

8'x6' C.B.

223.69'

VICTORIA

SCALE - 1"=100'

AT TOPEKA & SANTA FE

CLARK

805.59'

GREENWOOD

RR

1076.08'

HYDRAULIC

MEAD

AVE. Equation 301+49.4 MH = 301+49.4+53.40 Line #2
301+49.4+10.10 Line #3

MARION

151.8'

1603.1'

MOSLEY

1611.75'

RD.

1630'

WASHINGTON

26+74.0 MH

29+68.0 MH

ROCK ISLAND R.R.

S.W.S. Line #1

0+62.3 M.H.

Existing 18' S.S. M.H. Sec. Line

Existing 36" S.S. 22.6' S. Sec. Line

11+98 Existing 8" S.S.

S.W.S. Line #2

37+69.6 MH

2-X-S' C.B.S.

BLAKE

AVE.

PAWNEE

5+70.1 Existing 8" S.S.

7+39.6 MH

2-X-S' C.B.S.

AVE.

9+34.1 Existing 8" S.S.

10+99.6 MH

2-X-S' C.B.S.

IDA

AVE.

13+01.7 Existing 8" S.S.

14+59.8 MH

2-X-S' C.B.

LAURA

AVE.

16+93.8 Existing 8" S.S.

BLAKE

17+85.6 MH

2-X-S' C.B.

PATTIE

AVE.

19+63.2 Existing 8" S.S.

21+11.8 MH

2-X-S' C.B.

LULU

AVE.

22+08.8 Existing 8" S.S.

23+35.5 MH

2-X-S' C.B.

ELLIS

AVE.

25+00.9 MH

2-X-S' C.B.

VICTORIA

AVE.

ROAD

29+14.8 Existing 8" S.S.

30+08.6 M.H.

2-X-S' C.B.

GREENWOOD

AVE.

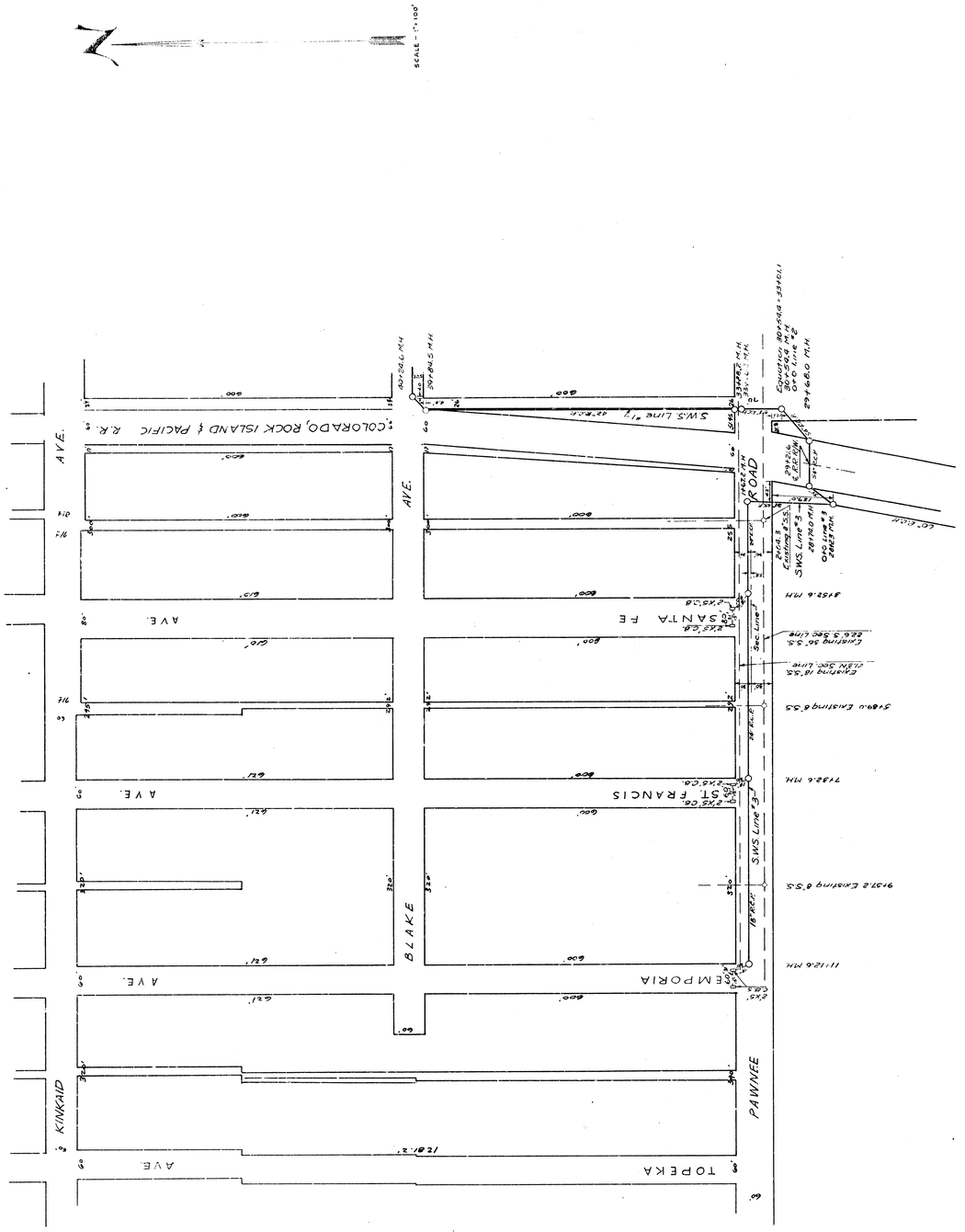
32+02.4 Existing 8" S.S.

33+00.4 M.H.

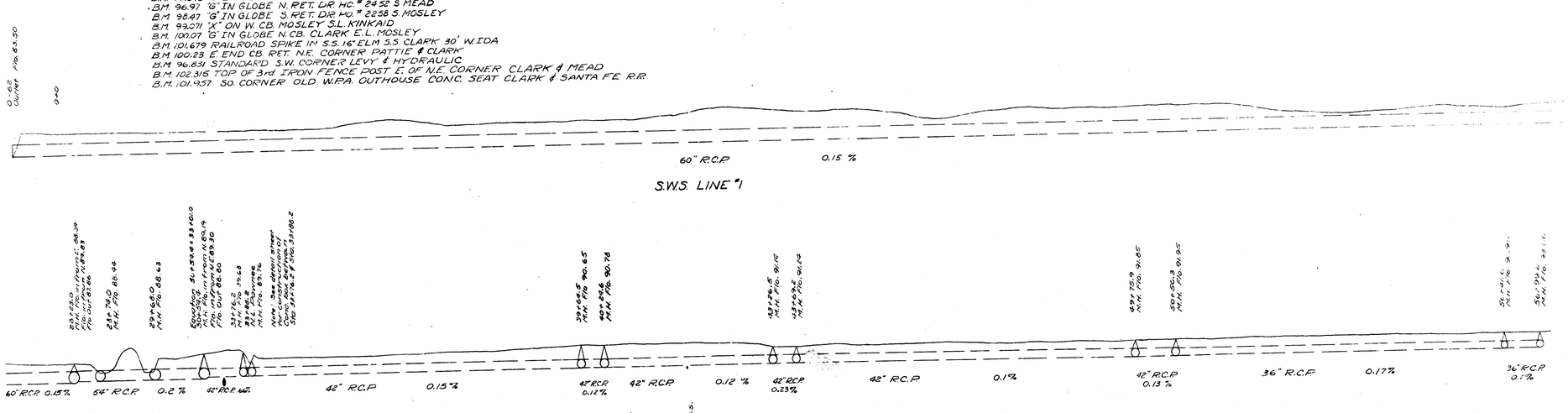
HIGHWAY 10

SCALE: 1"=100'

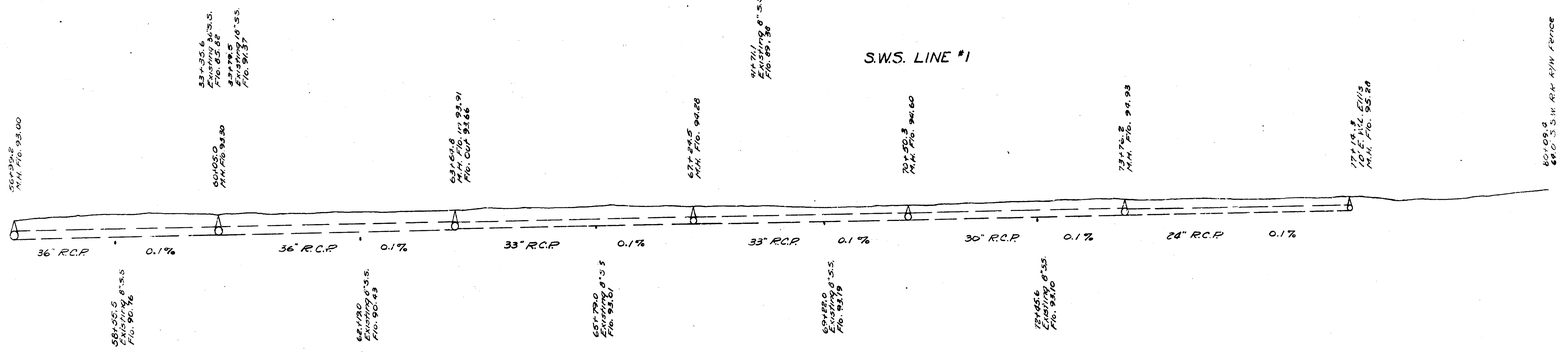
4
9


SCALE - 1" = 100'
COLORADO, ROCK ISLAND & PACIFIC R.R.
AVE.
SANTA FE
ST. FRANCIS
EMPORIA
TOPEKA
BLAKE
KINKAID
PAWNEE
ROAD
AVE
SWS Line #3
SWS Line #1
Existing 8'SS
Existing 18'SS
Existing 36'SS
Existing 0'SS
Proposed 8'SS
Proposed 18'SS
Proposed 36'SS
Proposed 0'SS
Equation Backing 1.384011
30-56.4 M.H.
0+10.0 Line #2
29+66.0 M.H.
33+88.5 M.H.
40+26.6 M.H.
8152.6 M.H.
7192.6 M.H.
6137.2 M.H.
5148.0 M.H.
4192.6 M.H.
3149.0 M.H.
2197.2 M.H.
1121.6 M.H.
Line #3
Line #1
Line #2
Line #4
Line #5
Line #6
Line #7
Line #8
Line #9
Line #10
Line #11
Line #12
Line #13
Line #14
Line #15
Line #16
Line #17
Line #18
Line #19
Line #20
Line #21
Line #22
Line #23
Line

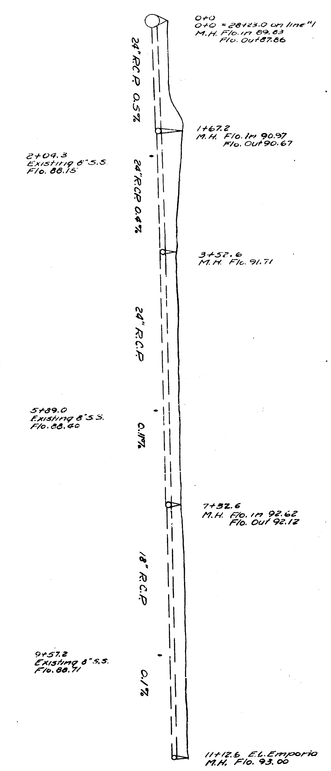
B.M. 88.76 TOP BOLTHEAD N. SIDE W. PILE 11th BENT FROM S. END ROCK ISLAND BRIDGE
B.M. 96.093 'G' IN GLOBE S. RET. DR. HO.# 2558 S. MEAD
B.M. 96.97 'G' IN GLOBE N. RET. DR. HO.# 2432 S. MEAD
B.M. 98.67 'G' IN GLOBE S. RET. DR. HO.# 2258 S. MOSLEY
B.M. 99.271 'X' ON W. CB. MOSLEY S.L. KINKAID
B.M. 100.07 'G' IN GLOBE N. CB. CLARK E.L. MOSLEY
B.M. 101.679 RAILROAD SPIKE IN S.S. 16" ELM S.S. CLARK 30' W. IDA
B.M. 100.23 E. END CB. RET. N.E. CORNER PATTIE & CLARK
B.M. 96.631 STANDARD S.W. CORNER LEVY & HYDRAULIC
B.M. 102.315 TOP OF 3rd IRON FENCE POST E. OF N.E. CORNER CLARK & MEAD
B.M. 101.937 SO. CORNER OLD W.P.A. OUTHOUSE CONC. SEAT CLARK & SANTA FE R.R.

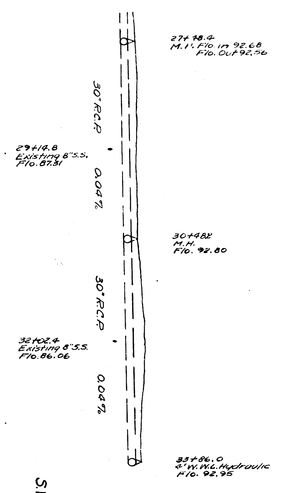


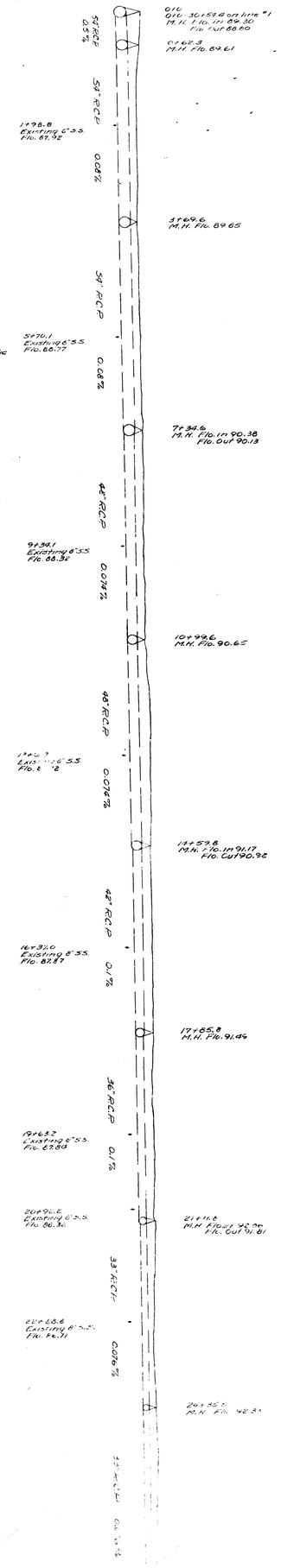
S.W.S. LINE #1



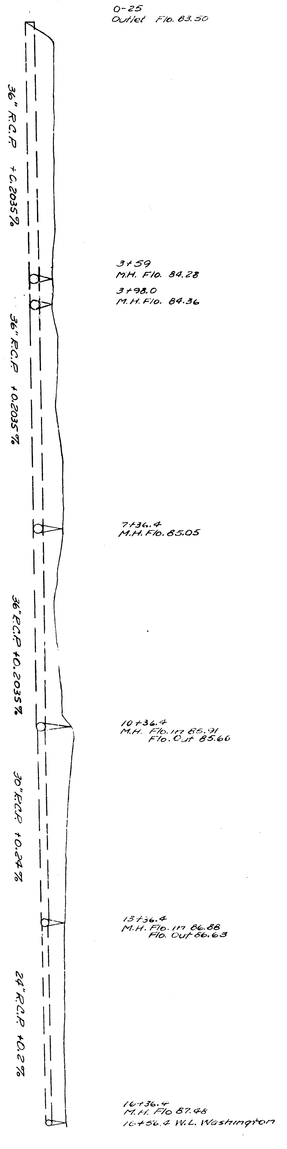
S.W.S. LINE #1



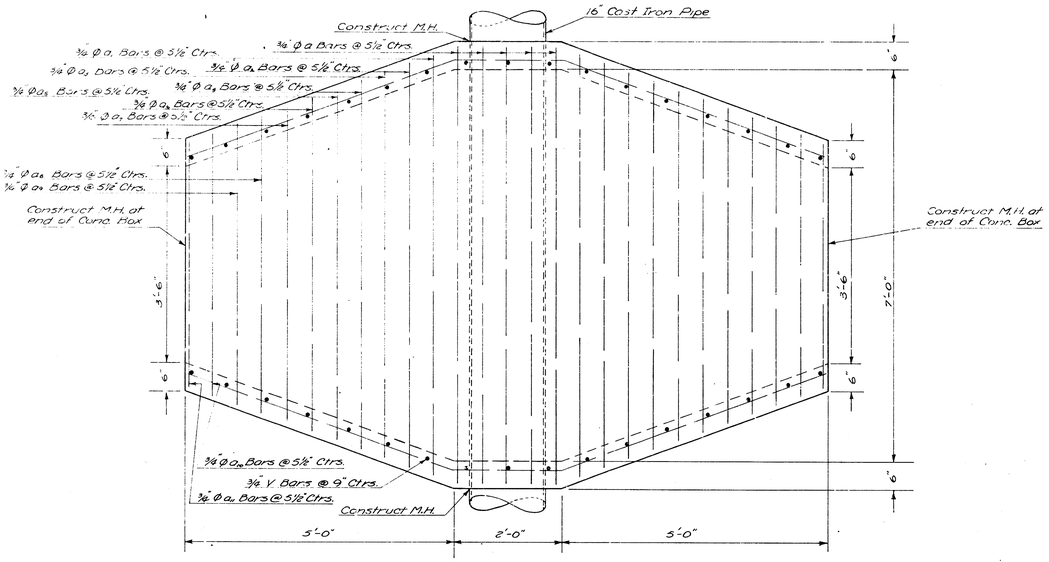




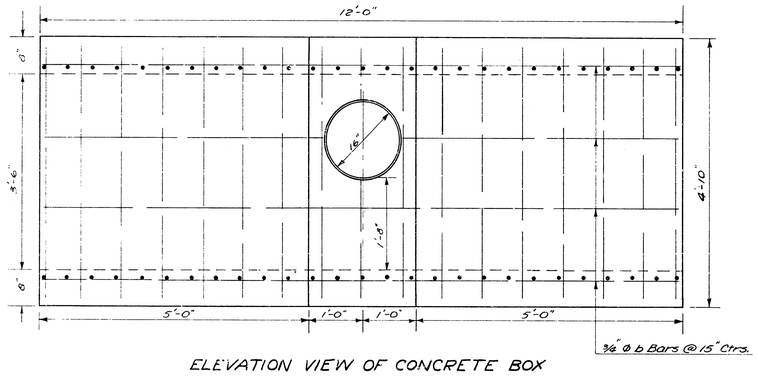
B.M. 97.62 STANDARD NE CORNER WASHINGTON & PAWNEE
B.M. 96.76 8" IN. GLOBE E. CB. LAURA N.L. PAWNEE
B.M. 96.86 R.R. SPIKE IN P. POLE N. SIDE PAWNEE BET. LULU & ELLIS
B.M. 97.78 6" IN GLOBE END CB. S. SIDE ELLIS BET. PAWNEE
B.M. 98.26 N.W. CORNER GREENWOOD & HYDRAULIC
B.M. 99.22 N.W. CORNER WEST CULVERT WING WALL 100' W. ST. FRANCIS N. SIDE PAWNEE


0-25
Outlet Flo. 83.50
36" R.C.P. +0.2035%
3+59
M.H. Flo. 84.28
3+98.0
M.H. Flo. 84.36
36" R.C.P. +0.2035%
7+36.4
M.H. Flo. 85.05
36" R.C.P. +0.2035%
10+36.4
M.H. Flo. 87.91
Flo. O.F. 88.66
30" R.C.P. +0.24%
13+36.4
M.H. Flo. 89.88
Flo. Out 88.63
24" R.C.P. +0.2%
16+36.4
M.H. Flo. 87.48
16+56.2 W.L. Washington

S.W.S. LINE #4



PLAN VIEW OF CONCRETE BOX
Scale: 1"=1'-0"



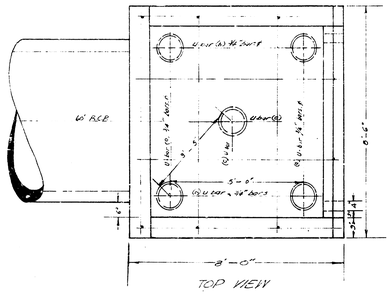
ELEVATION VIEW OF CONCRETE BOX
Scale: 1"=1'-0"

BILL OF MATERIALS

BAR	a	a1	a2	a3	a4	a5	a6	a7	a8	a9	b	V
NUMBER	10	4	4	4	4	4	4	4	4	4	8	49
SIZE	3/8"	3/8"	3/8"	3/8"	3/8"	3/8"	3/8"	3/8"	3/8"	3/8"	3/8"	3/8"
LENGTH	7'-10"	7'-6 7/8"	7'-2 1/8"	6'-11"	6'-7"	6'-3"	5'-11 3/8"	5'-7 1/8"	5'-3 1/2"	4'-11 1/2"	4'-8"	1'-5"	12'-5"	4'-0"

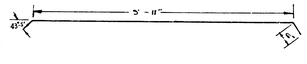
CLASS 'A' CONC. - 5.5 CU. YDS.
REINF. STEEL - 890.0 LBS.

CONCRETE BOX AT 18" S.S.
PAWNEE & MEAD

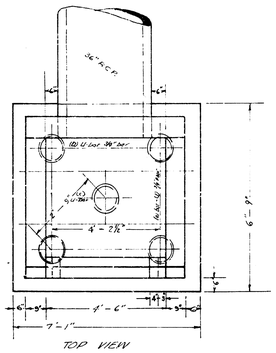


TOP VIEW

STEEL SPECIFICATIONS										
TYPE	a	b	b_1	c	d	e	f	g	#5 BARS	
NO.	8	8	8	2	2	2	2	2	2	2
LGTH.	3'-0"	8'-0"	7'-0"	2'-3"	4'-3"	7'-1"	8'-8"	10'-11"	4'-6"	4'-6"
TYPE	CONCRETE									
A	7.0 CU. YDS.									
NO	PILINGS 5 - 12" x 20'									

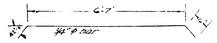


DETAIL OF (g) bar

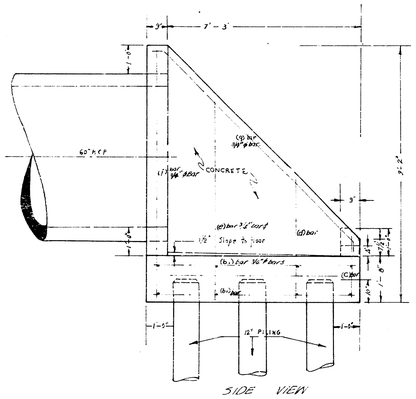


TOP VIEW

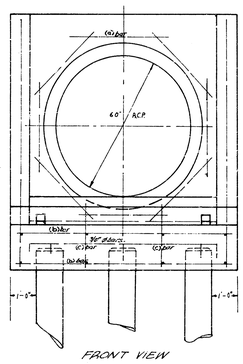
STEEL SPECIFICATIONS										
TYPE	a	b	b_1	c	d	e	f	g	#5 BARS	
NO	6	8	8							
LGTH.	2'-6"	6'-9"	6'-3"	2'-2"	3'-2"	8'-9"	6'-8"			
TYPE	CONCRETE									
A	5.0 CU. YDS.									
NO	PILING 5 - 12" x 20'									



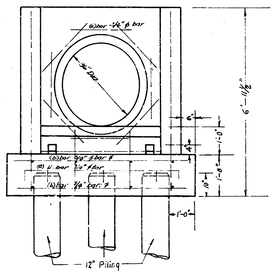
DETAIL OF (g) bar



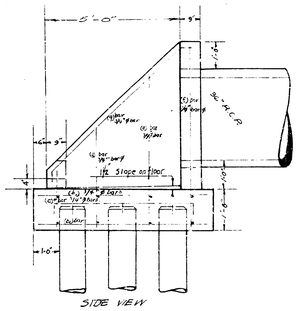
SIDE VIEW



FRONT VIEW



FRONT VIEW



SIDE VIEW

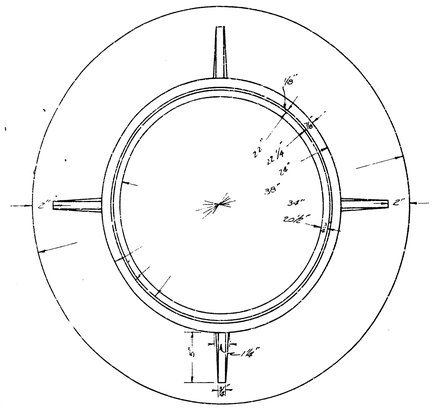
DETAIL OF HEADWALLS

IN CONNECTION WITH STORM WATER SEWER NUMBER 33.

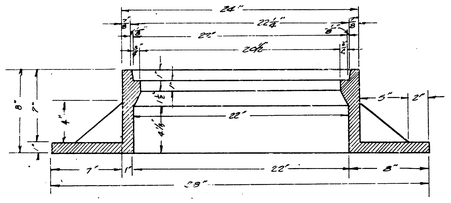
WICHITA, KANSAS

L.A. WHITE, City Engineer

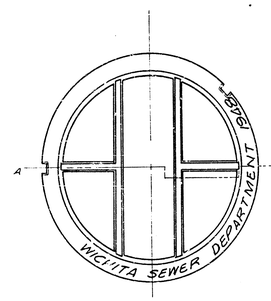
AUGUST 1928 SCALE 1"=1'-0"



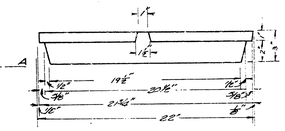
TOP VIEW OR PLAN OF MANHOLE RING
SCALE 3/16"=1'-0"



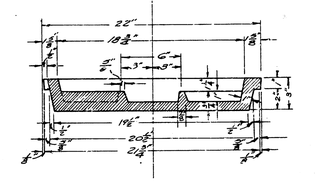
VERTICAL CROSS-SECTION OF MANHOLE RING.
SCALE 3/16"=1'-0"



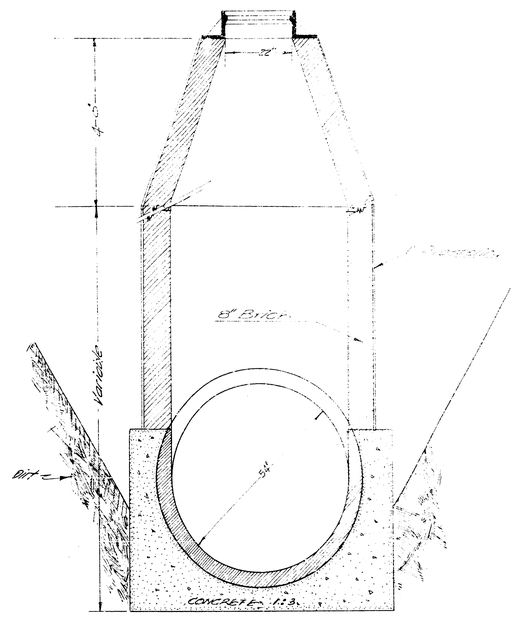
TOP VIEW OR PLAN OF MANHOLE COVER.
DATE TO BE CHANGED TO CORRESPOND WITH CURRENT YEAR.
SCALE 3/16"=1'-0"



SIDE VIEW OR ELEVATION OF MANHOLE COVER, SHOWING DIMENSIONS OF LIFTING NOTCH.
SCALE 3/16"=1'-0"



VERTICAL CROSS-SECTION A-A, OF COVER, SHOWING DEPTH OF LIFTING NOTCH. COVER TO BE FILLED FLUSH WITH ASPHALT.
SCALE 3/16"=1'-0"



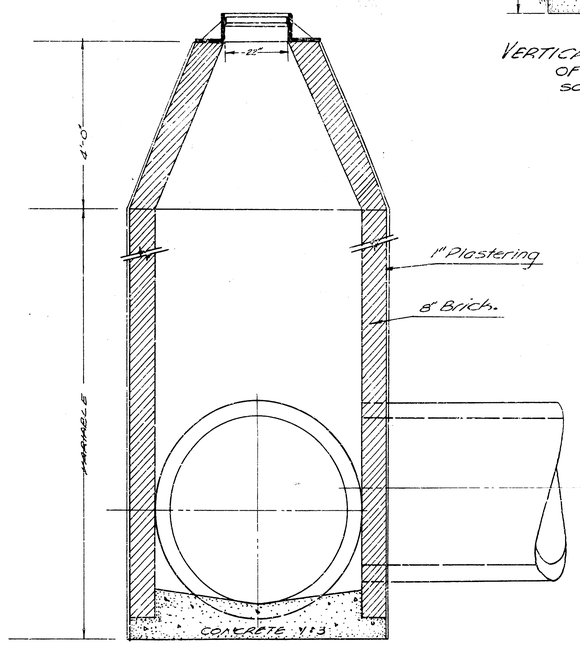
VERTICAL CROSS-SECTION OF MANHOLE
SCALE: 3/8"=1'-0"

STANDARD MANHOLE DETAIL

STORM WATER SEWER # 33

L. K. WHITE CITY ENGINEER.

1948



VERTICAL CROSS-SECTION OF MANHOLE.
SCALE: 3/8"=1'-0"