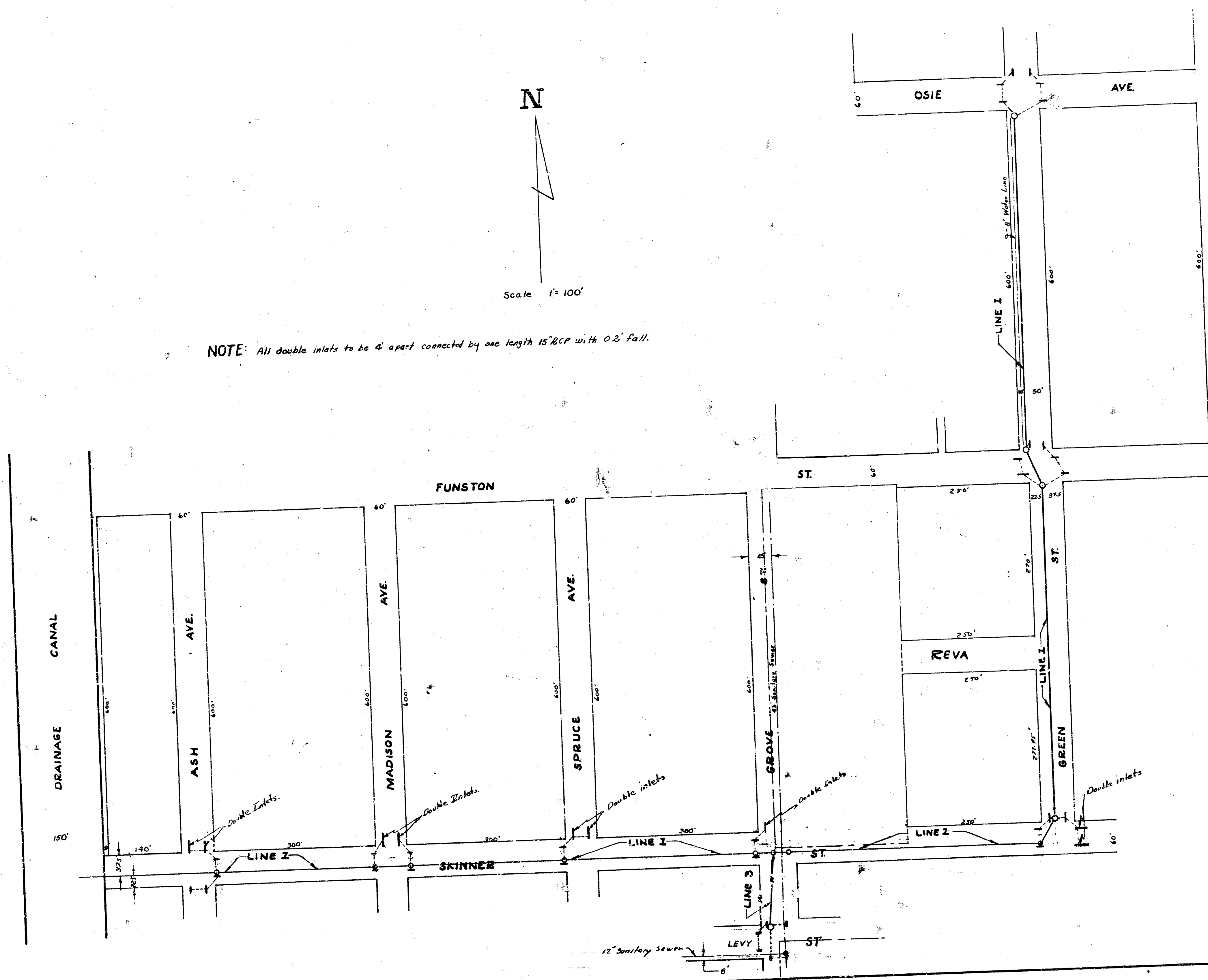
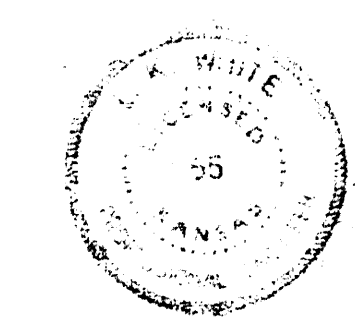
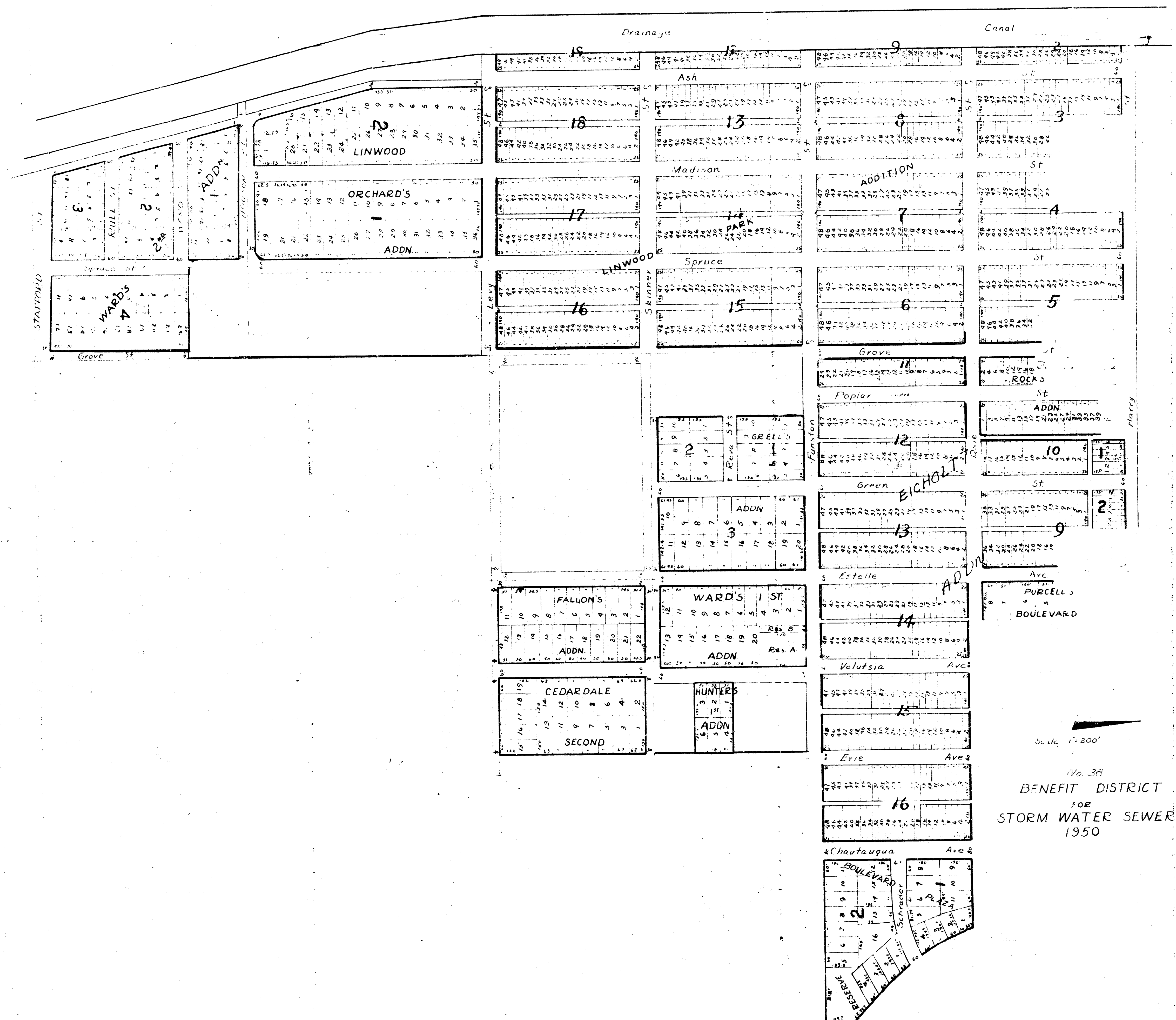


NOTE: All double inlets to be 4' apart connected by one length 15" BCP with 0.2' fall.



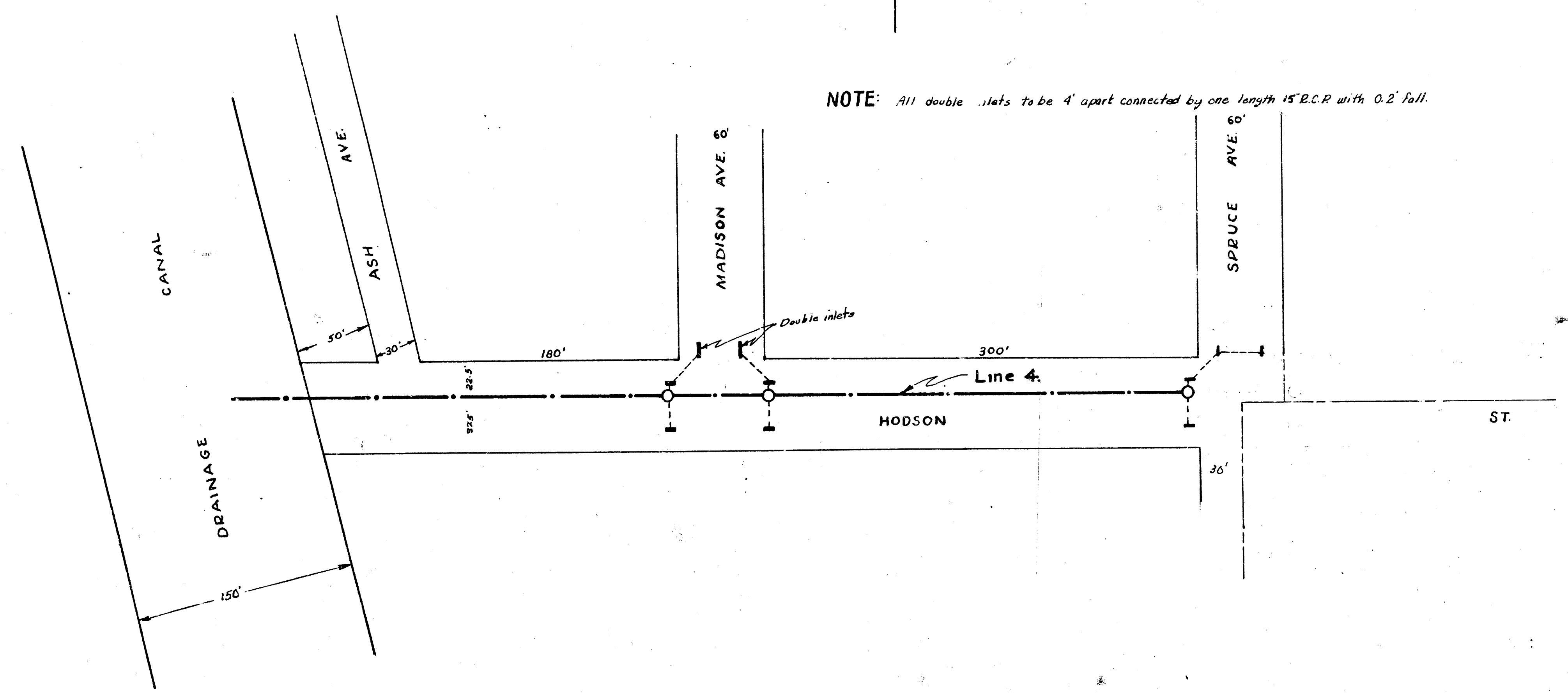
STORM SEWER NO. 38
WICHITA, KANSAS
L. K. WHITE CITY ENGINEER
1950
PROJECT NO. C20-66







NOTE: All double inlets to be 4' apart connected by one length 15" D.C.P. with 0.2' fall.

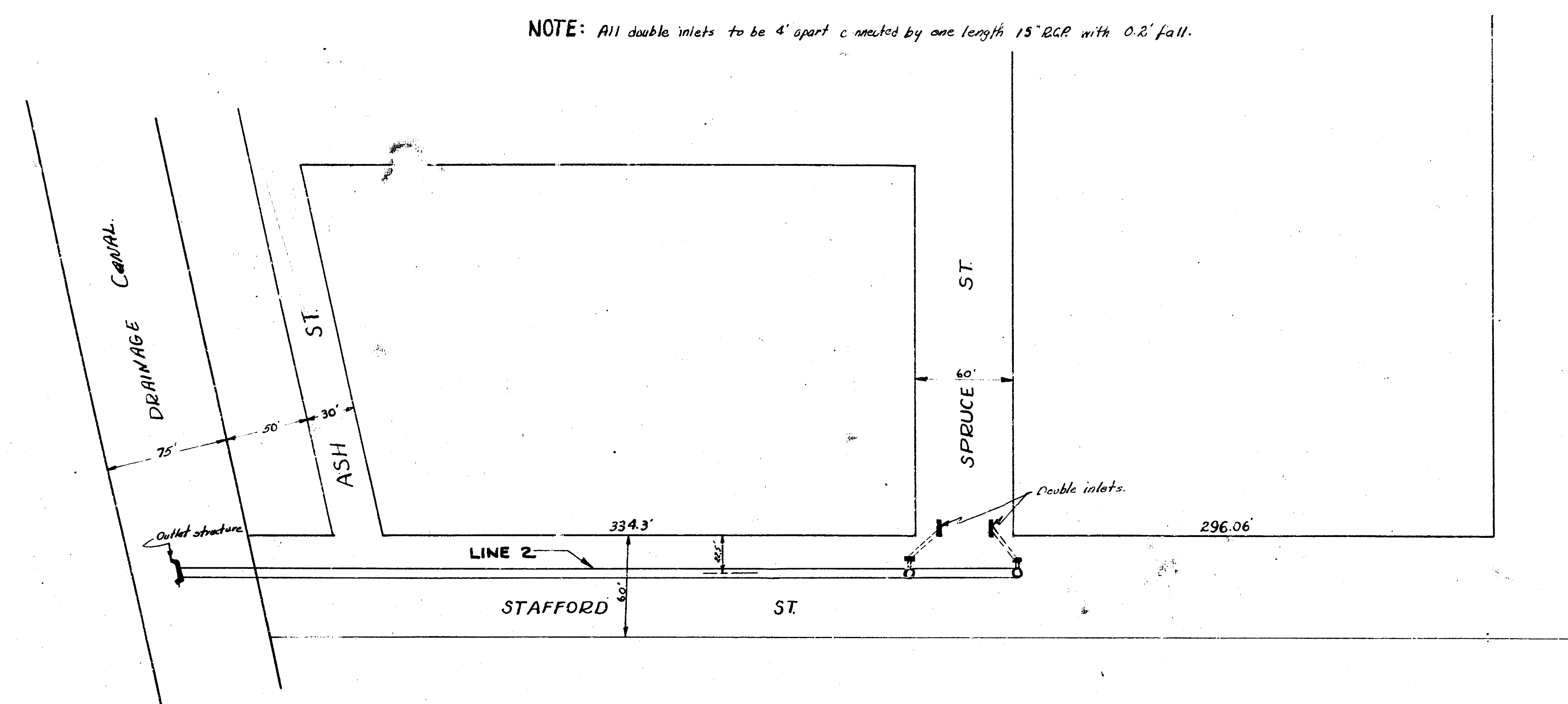


STORM SEWER NO. 38
WICHITA, KANSAS
L.K. WHITE CITY ENGINEER
1950

3/18

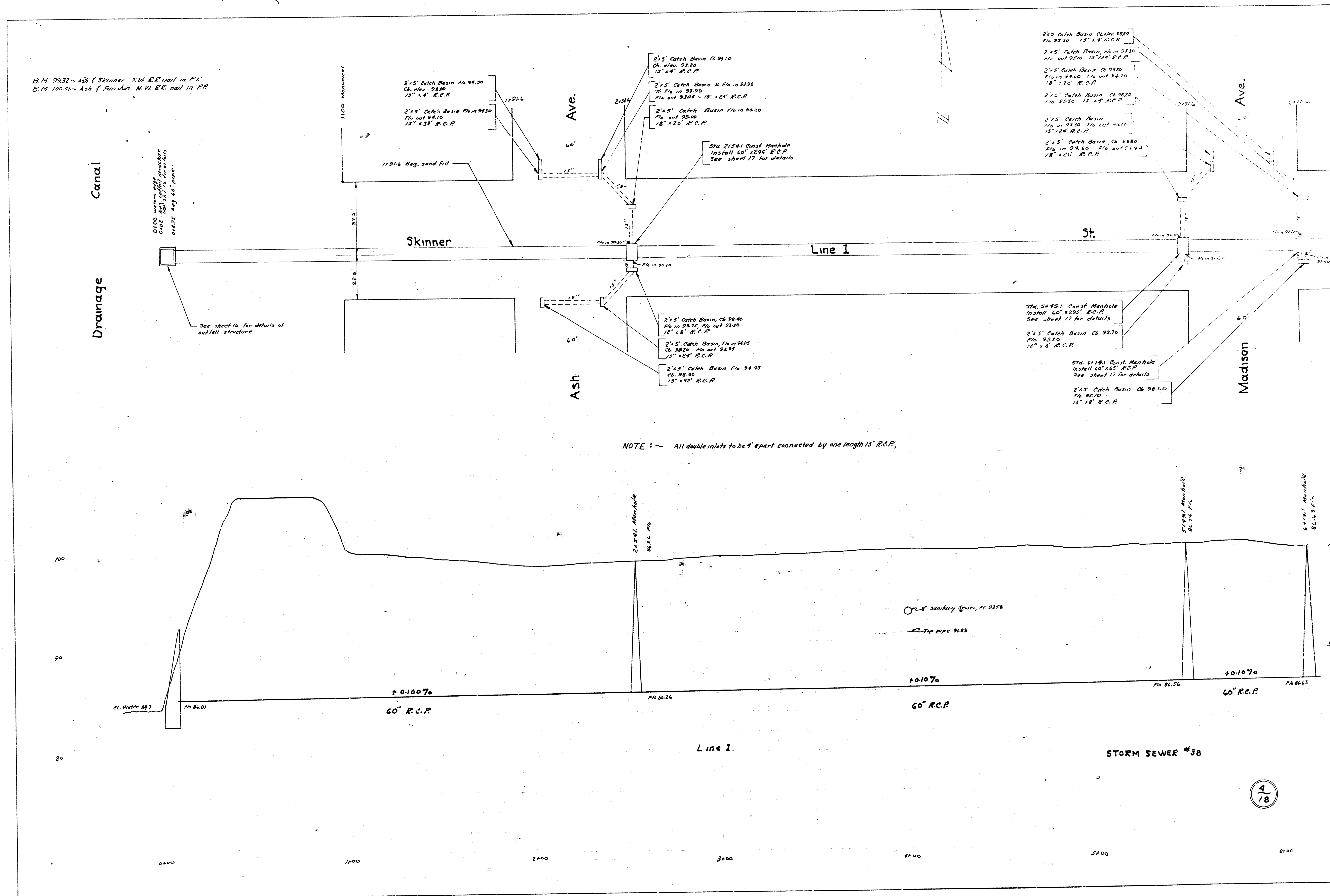


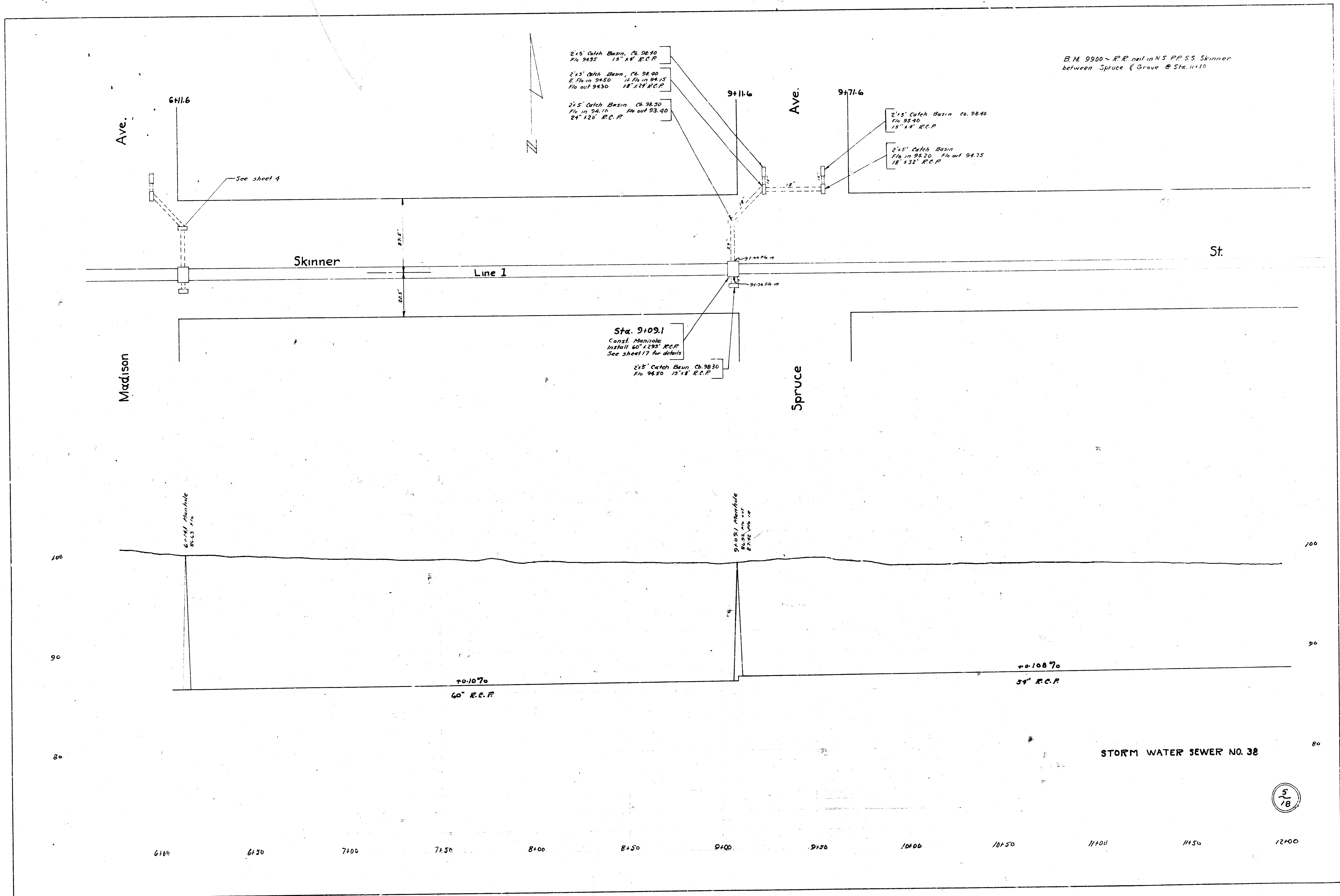
NOTE: All double inlets to be 4' apart & marked by one length 15" RCP with O.R. fall.

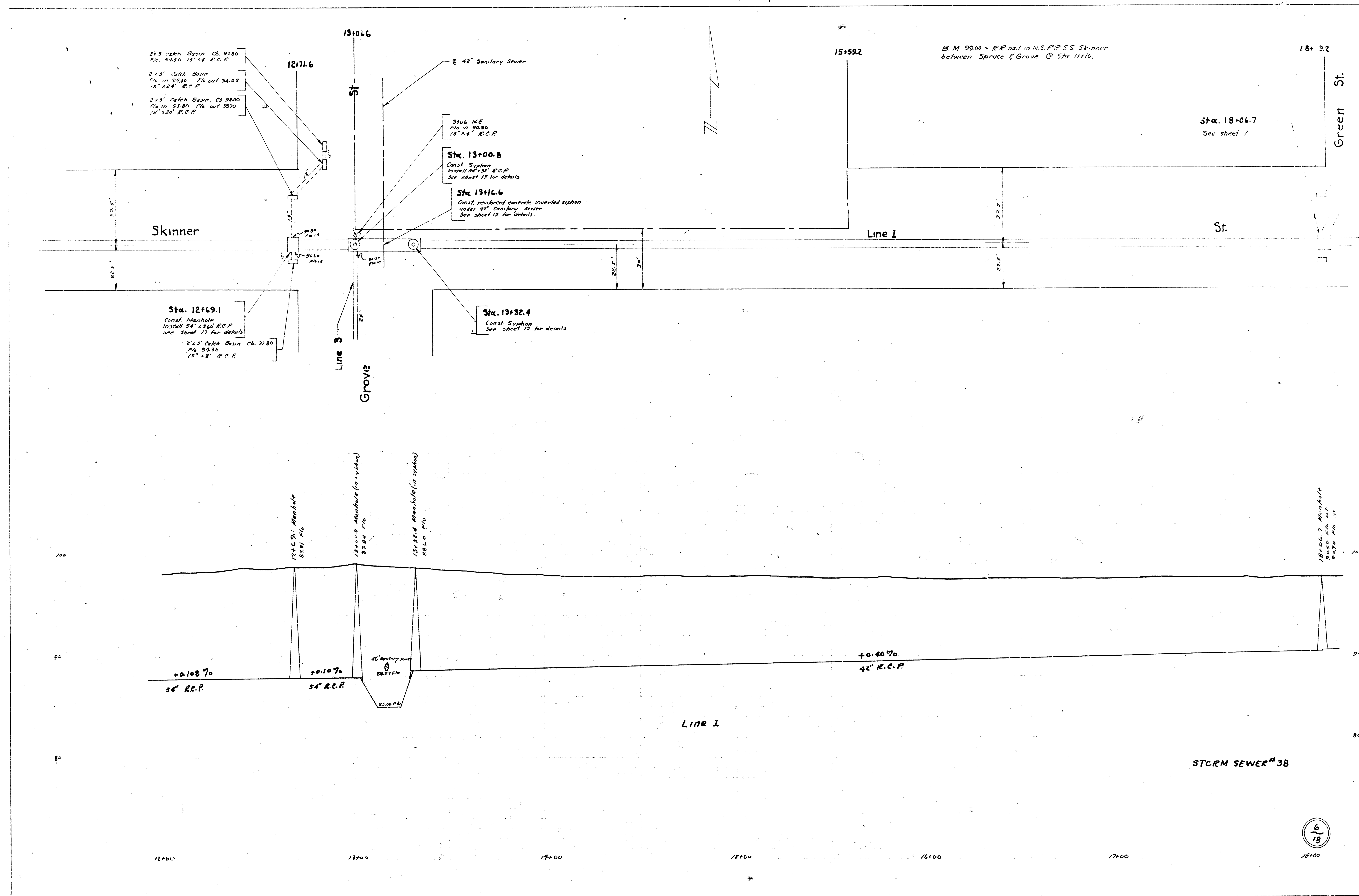


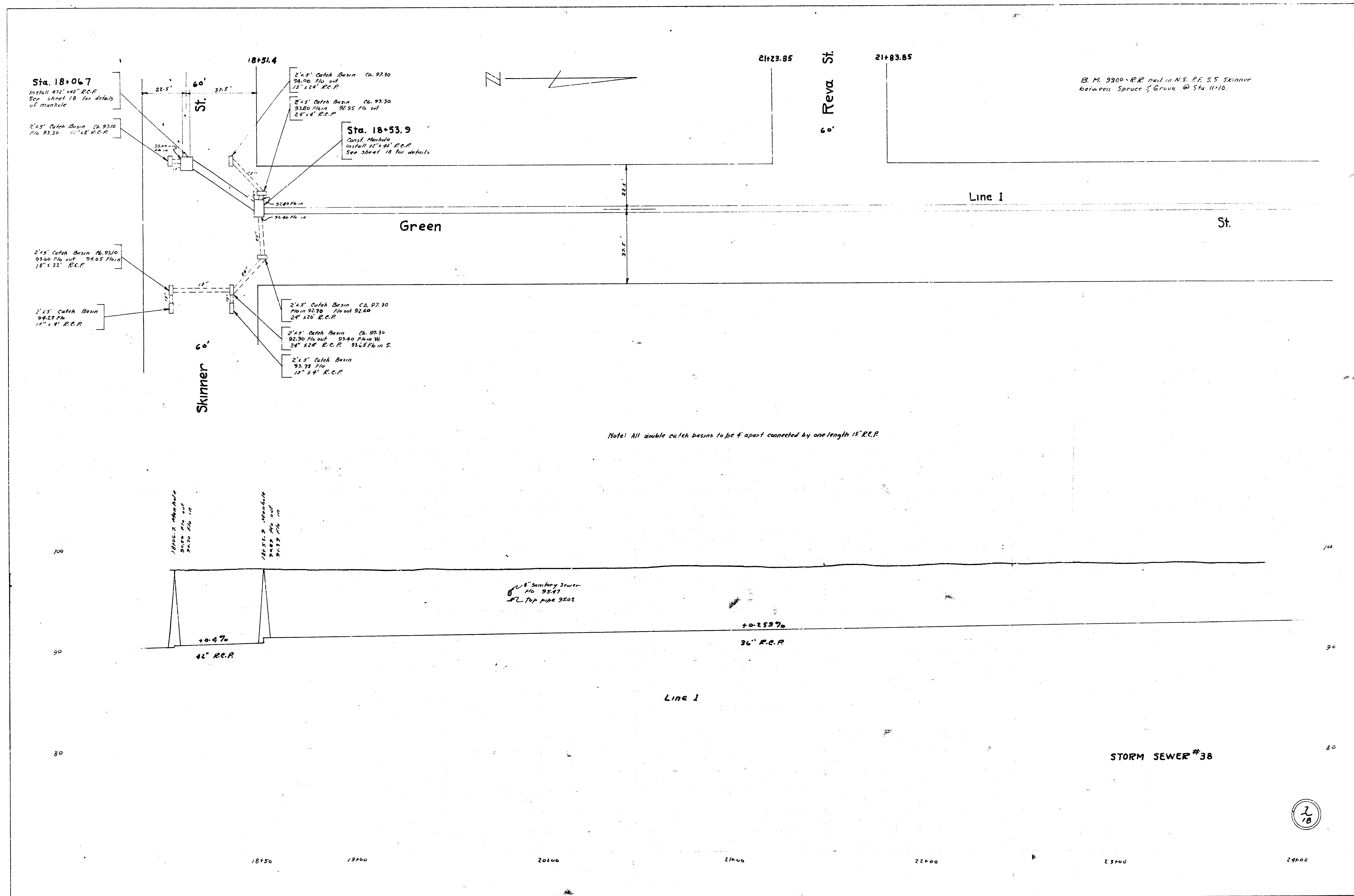
STORM WATER SEWER # 38
Wichita Kansas
L. K. White City Engineer
1950

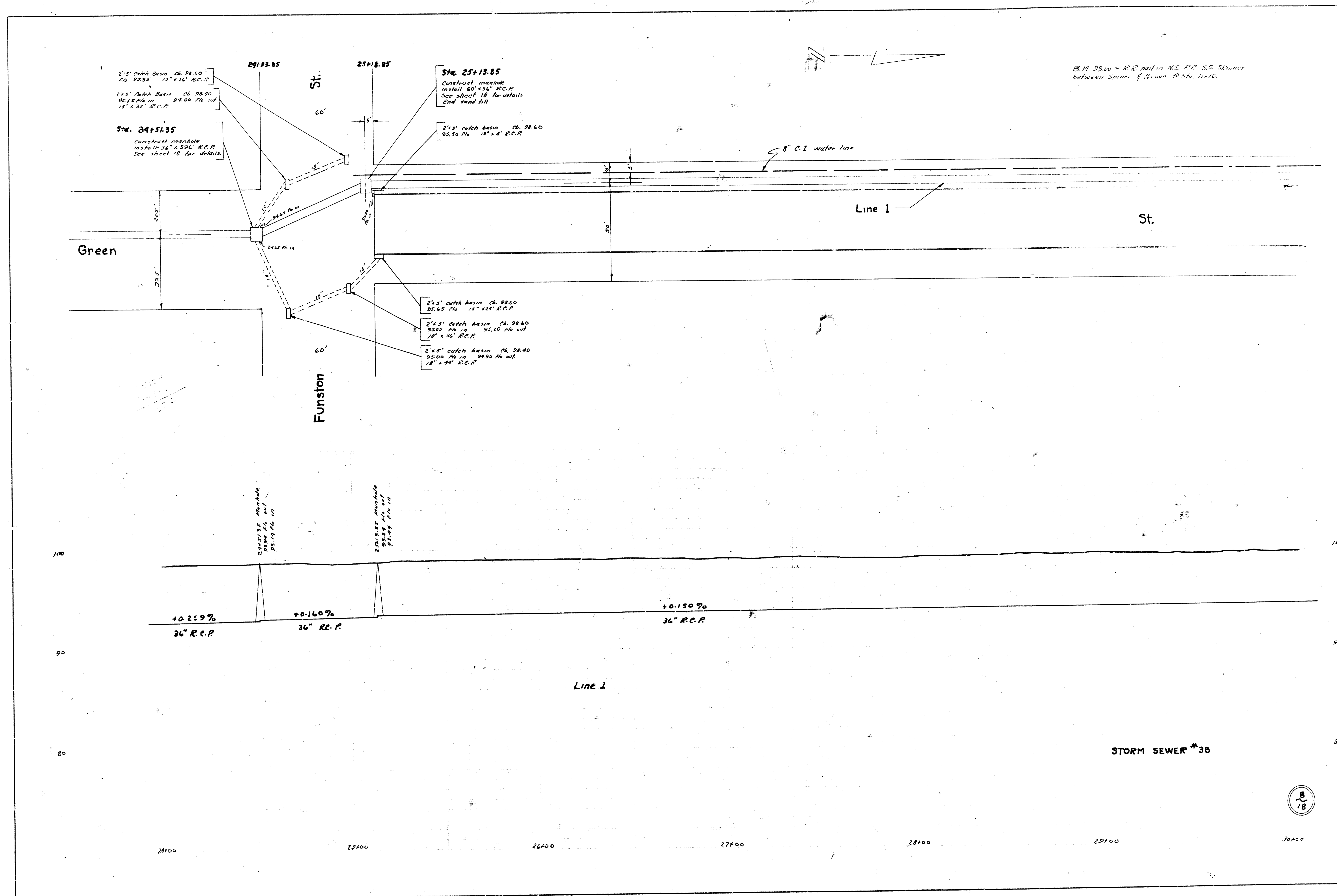
3/18

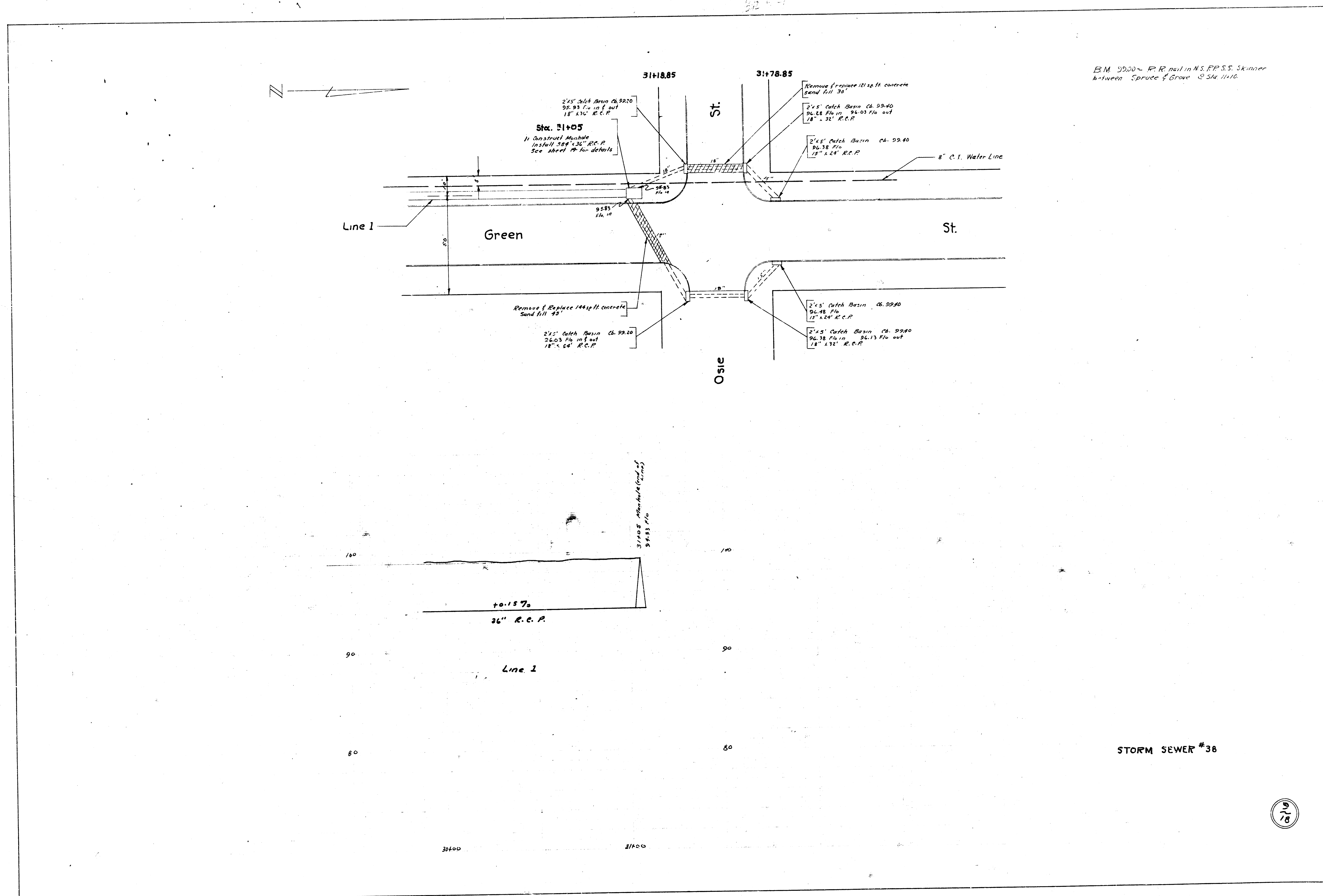


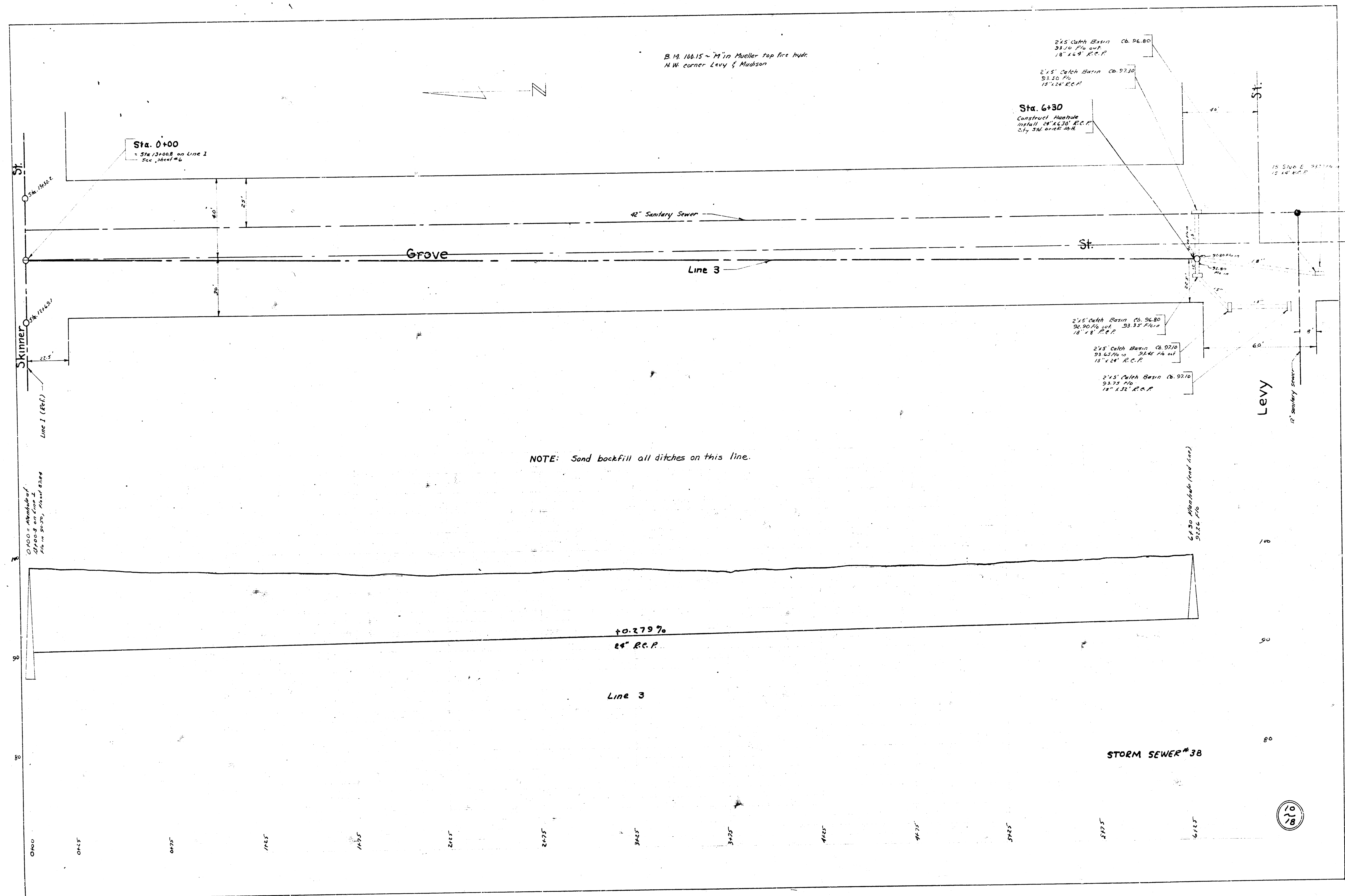


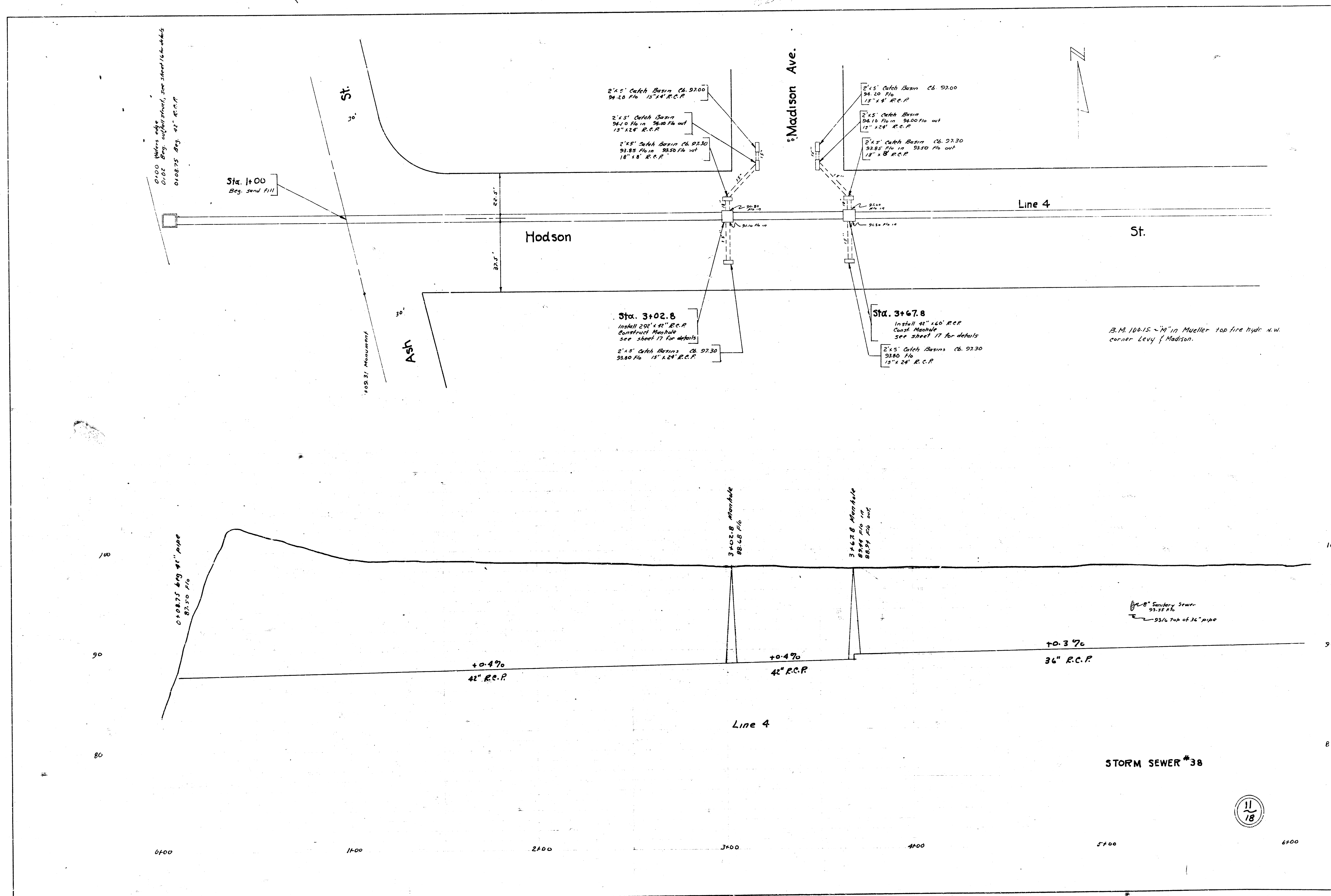


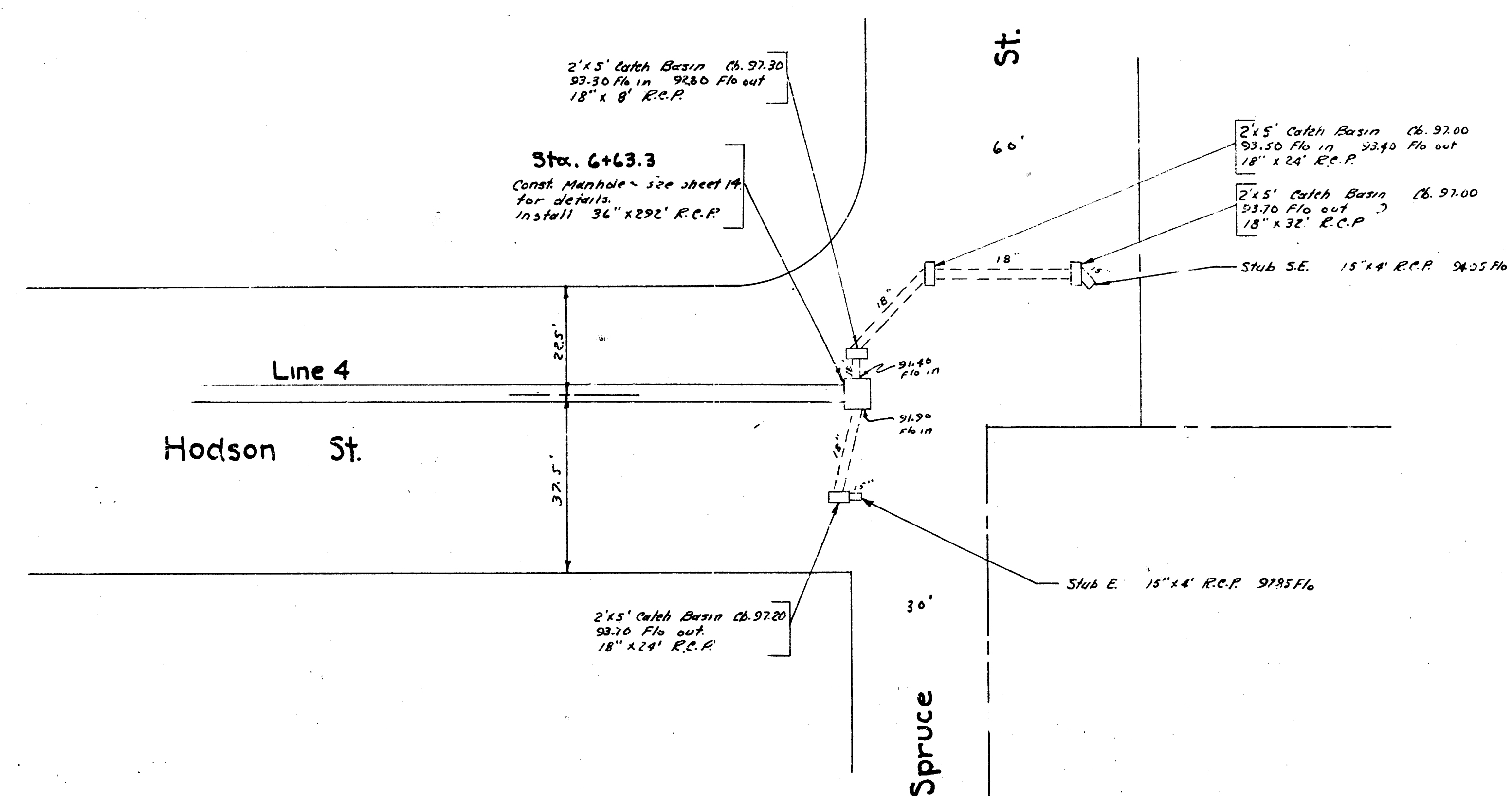
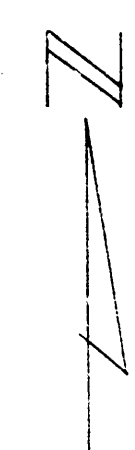




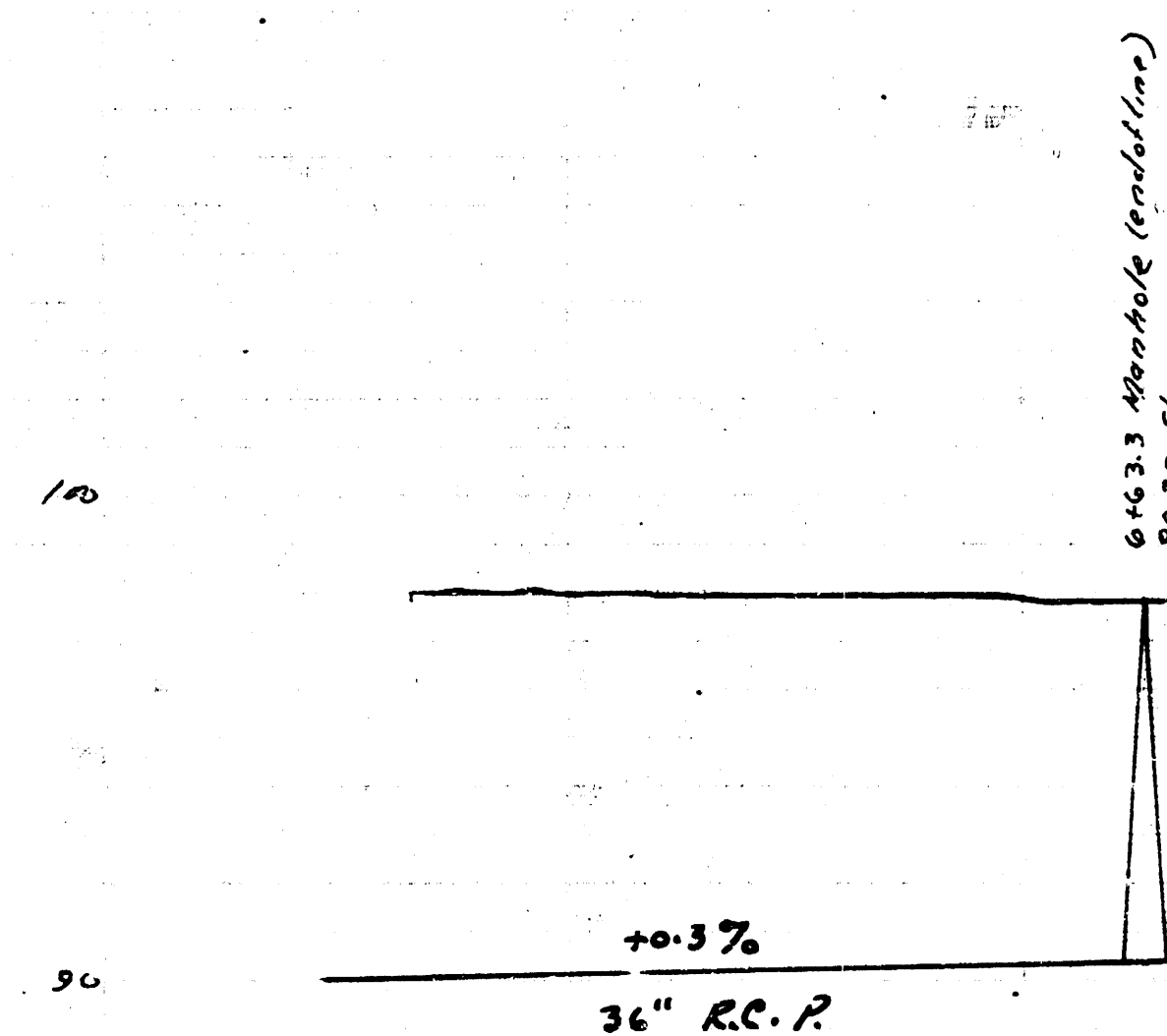






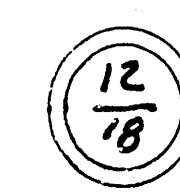


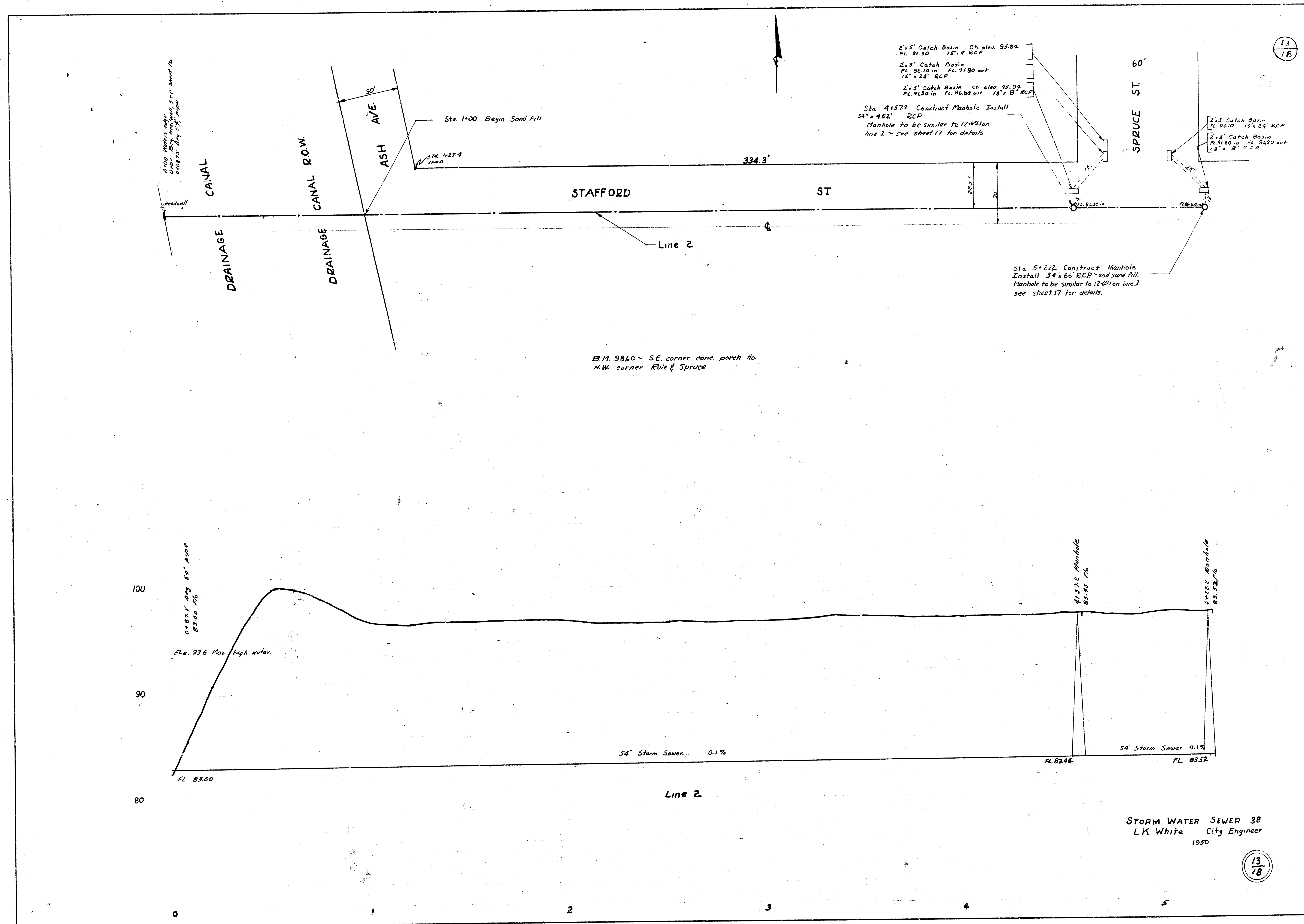
B.M. 100.15 - 74" in Mueller top fire hydr. NW corner Levy & Madison.



Line 4

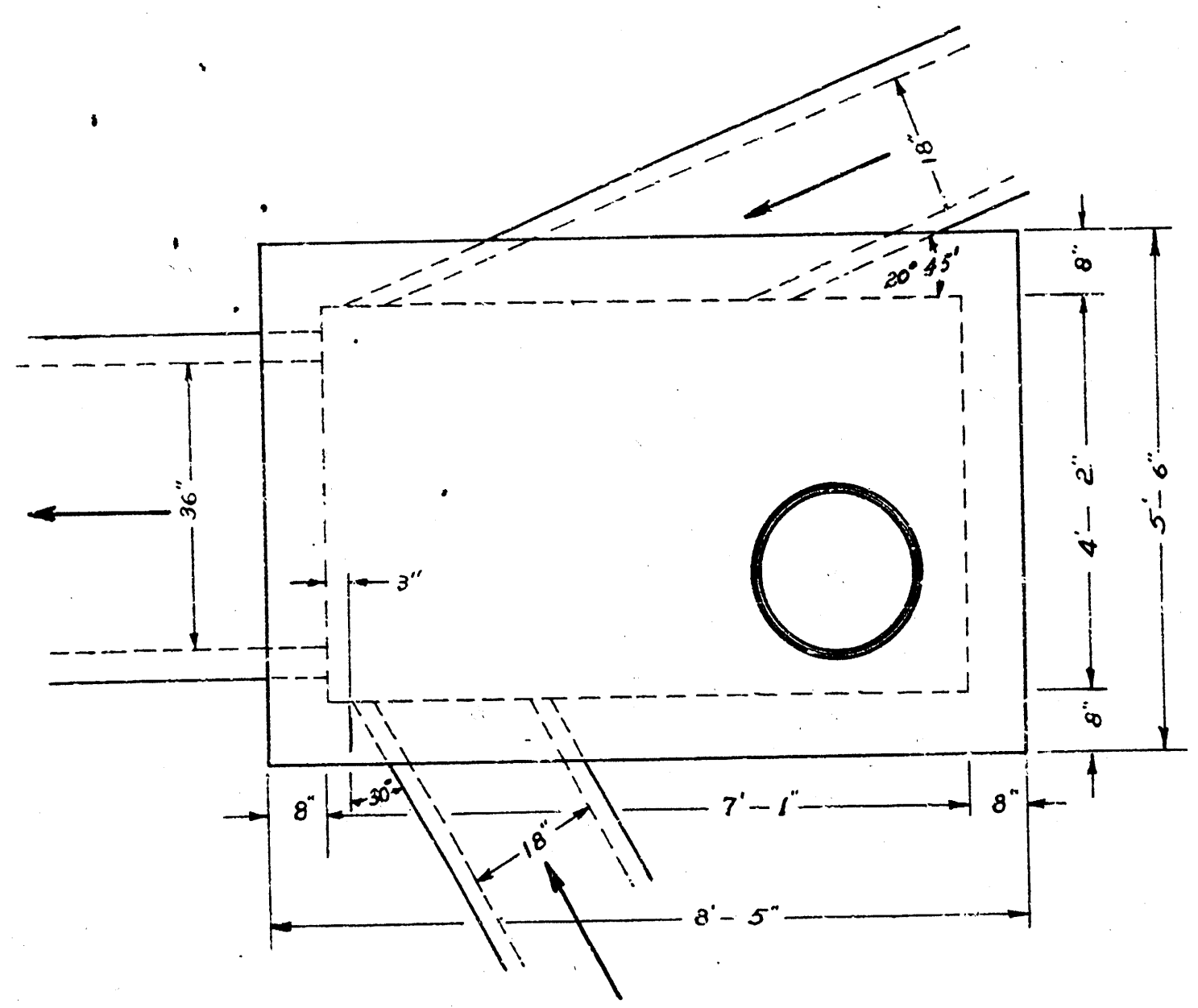
STORM SEWER #38



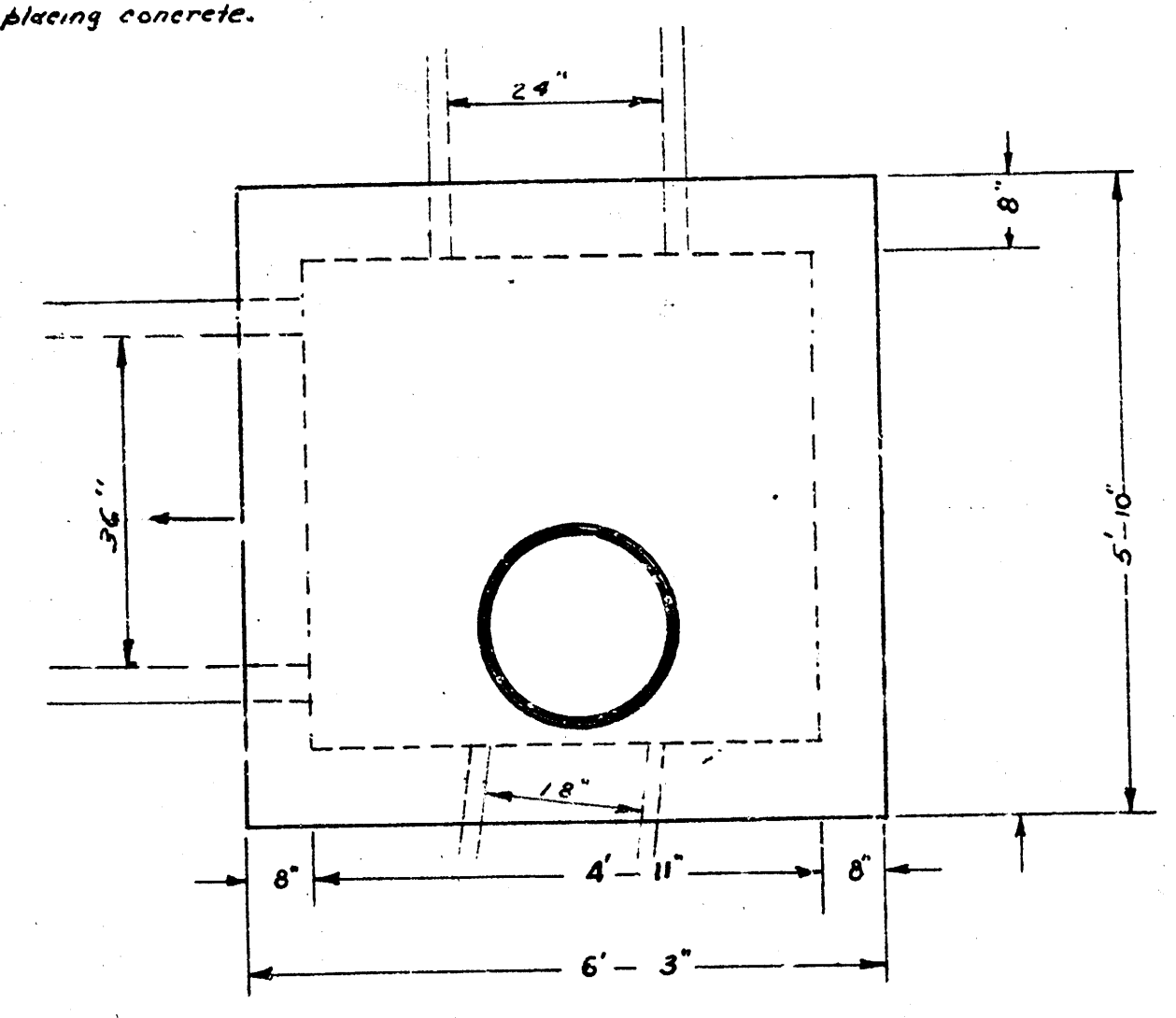


Note:
 Concrete for manholes shall contain not less than 145 barrels of cement per cu. yd. in no event shall the water content exceed 4.5 gals. per sack of cement. The mixture of fine & coarse aggregate shall be such as will produce a maximum density of the most workable mixture.
 In general pipes will enter & leave the manholes at various positions, where possible, bend bars around pipes. Where pipes are large use $\frac{5}{8}$ " ϕ bars as shown.
 Floors of manholes to be sloped for flow & drainage with concrete.
 No deduction in concrete quantities shall be made for pipe openings.
 No additions in concrete quantities shall be made for sloping floor of manholes.
 Inferior vibrator to be used for placing concrete.

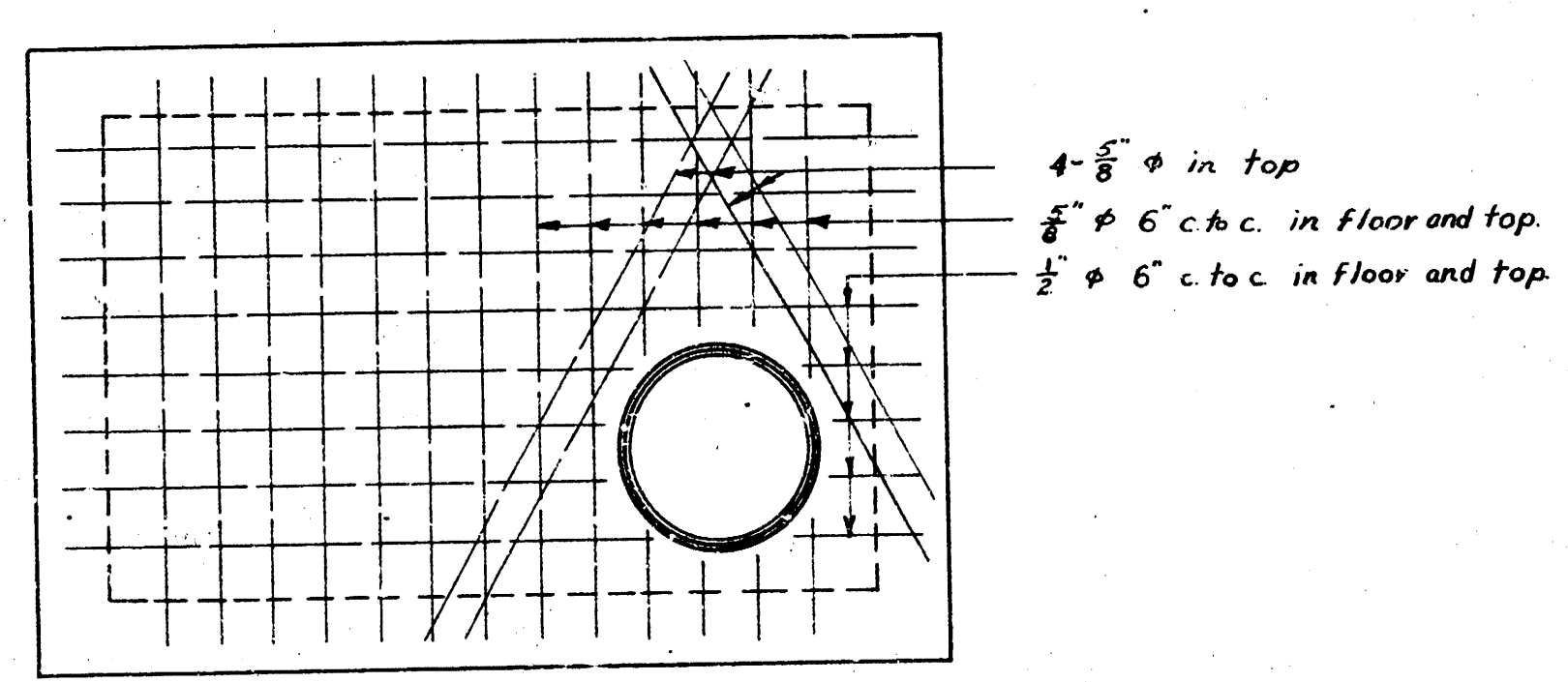
14
18



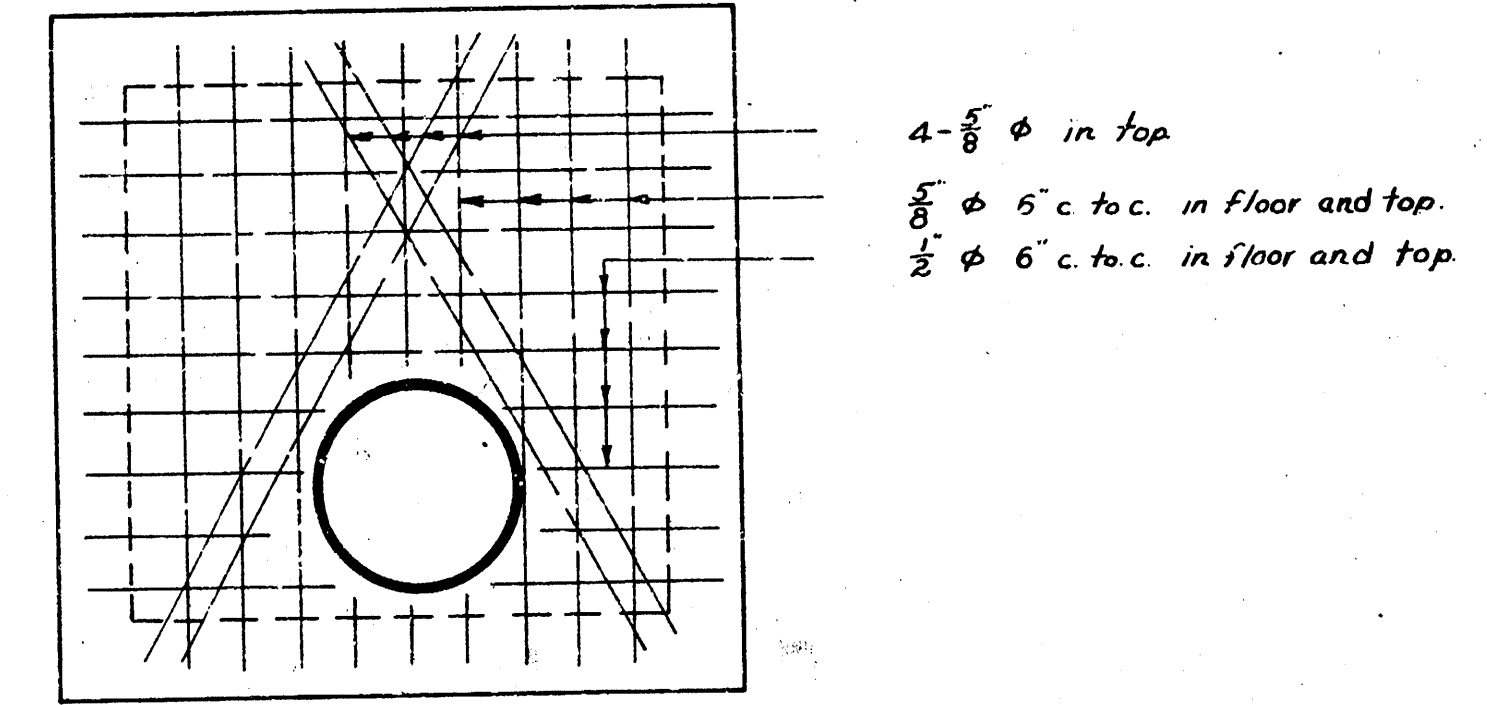
Manhole Layout Sta. 31+05



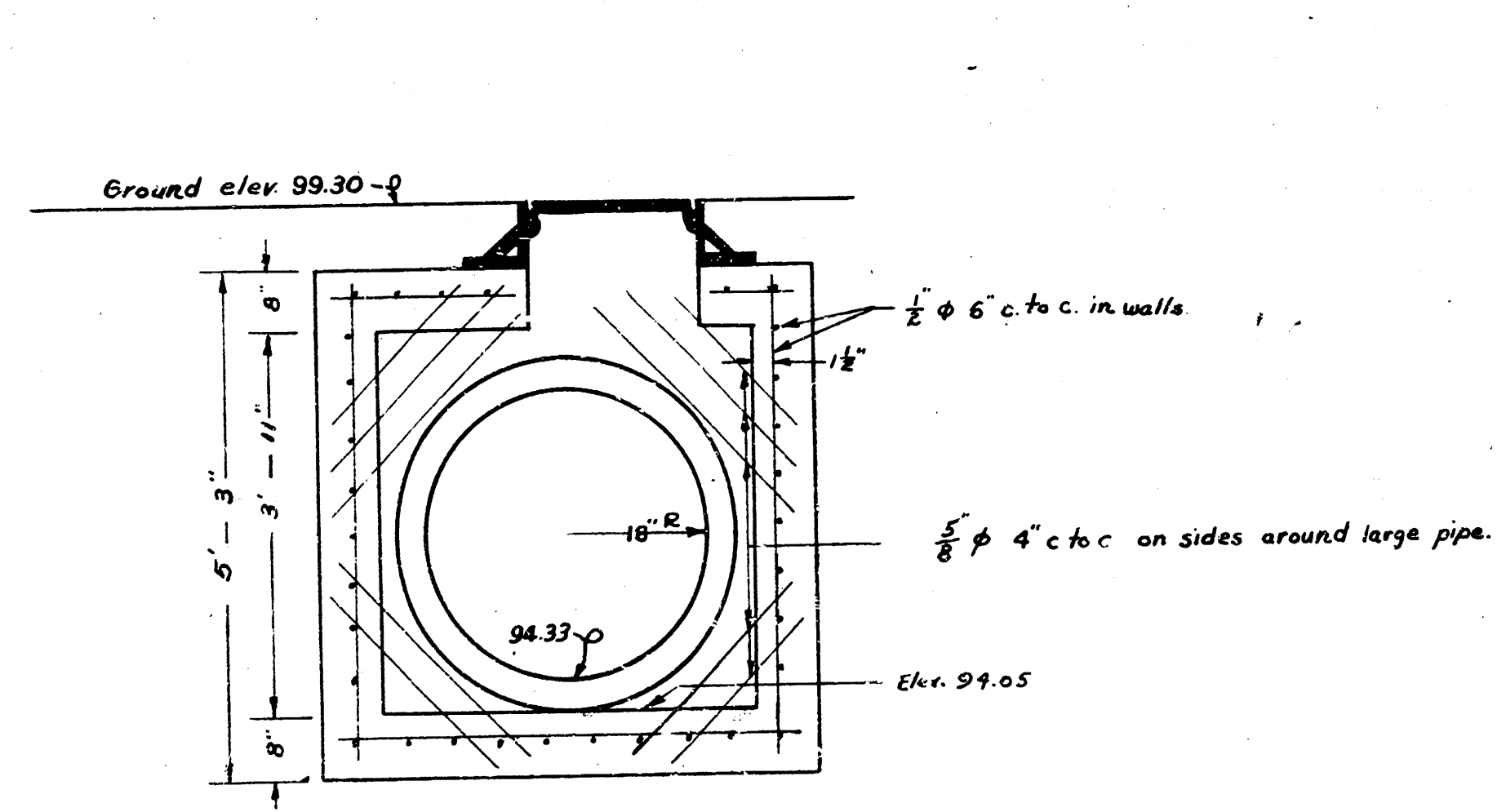
Manhole Layout Sta. 44633



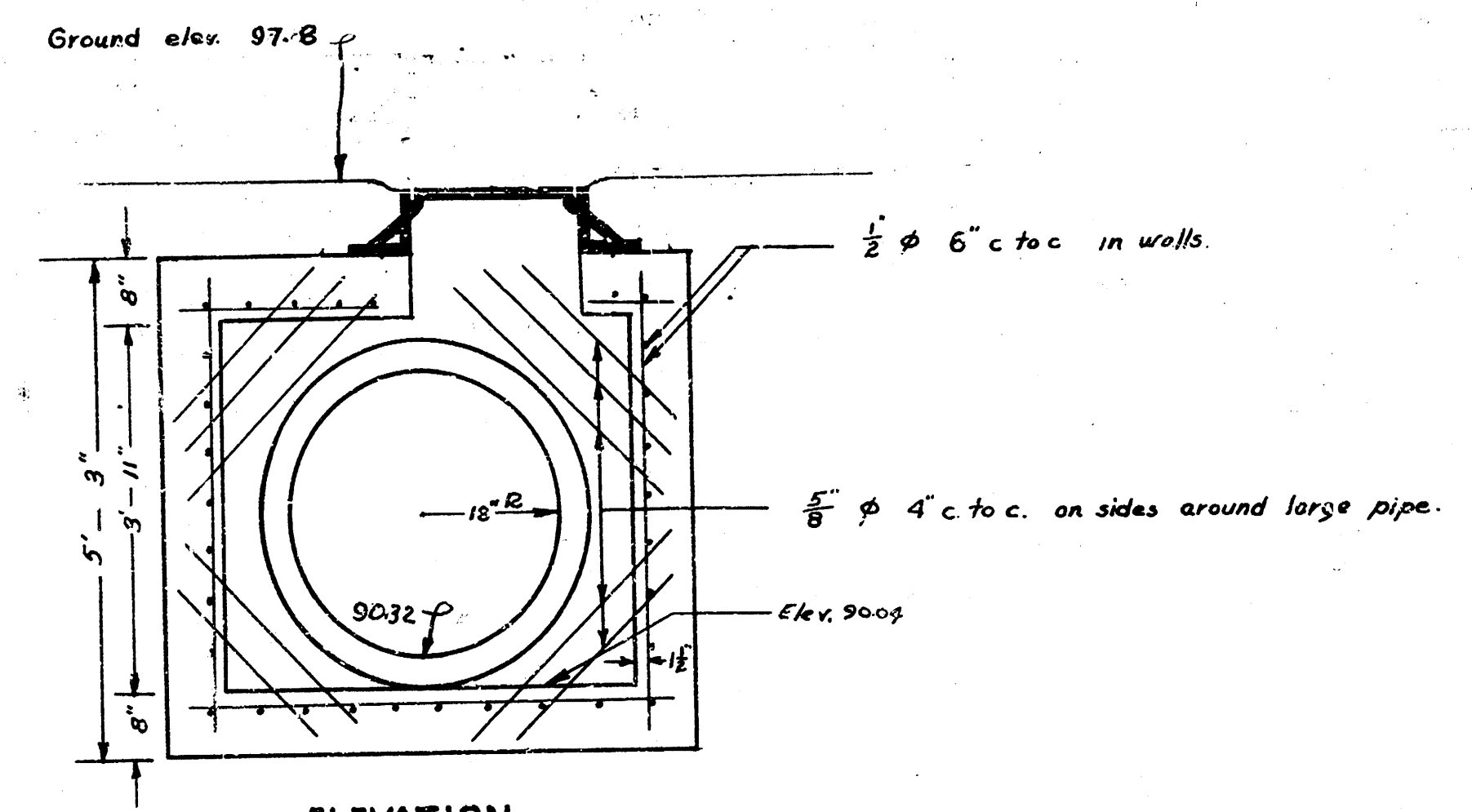
PLAN
Showing re-inforcing steel in top and floor.



PLAN
Showing re-inforcing steel in top and floor.



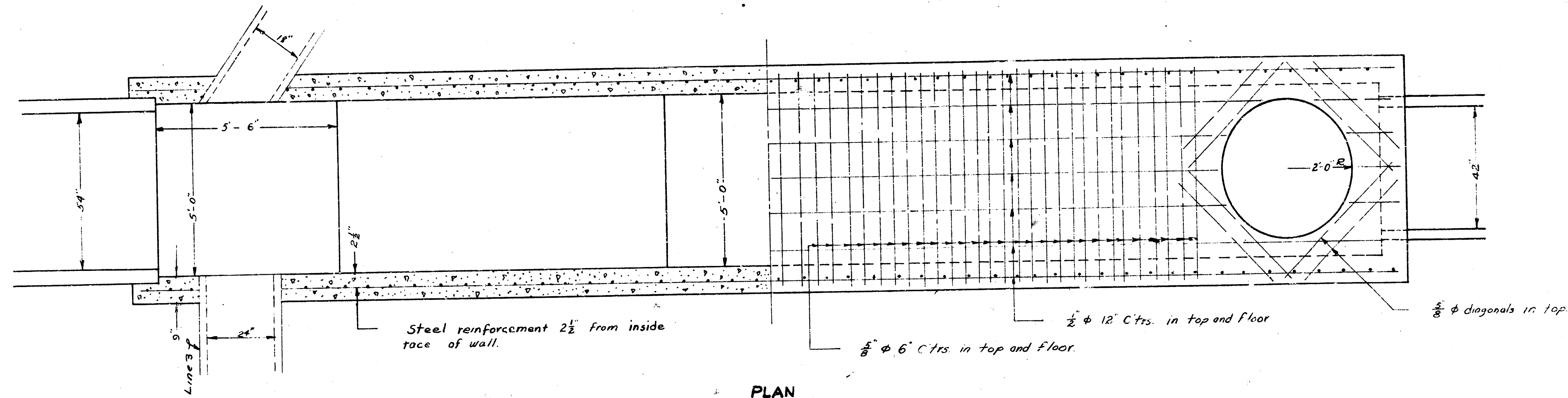
ELEVATION
Showing re-inforcing steel in walls.



ELEVATION
Showing re-inforcing steel in walls.

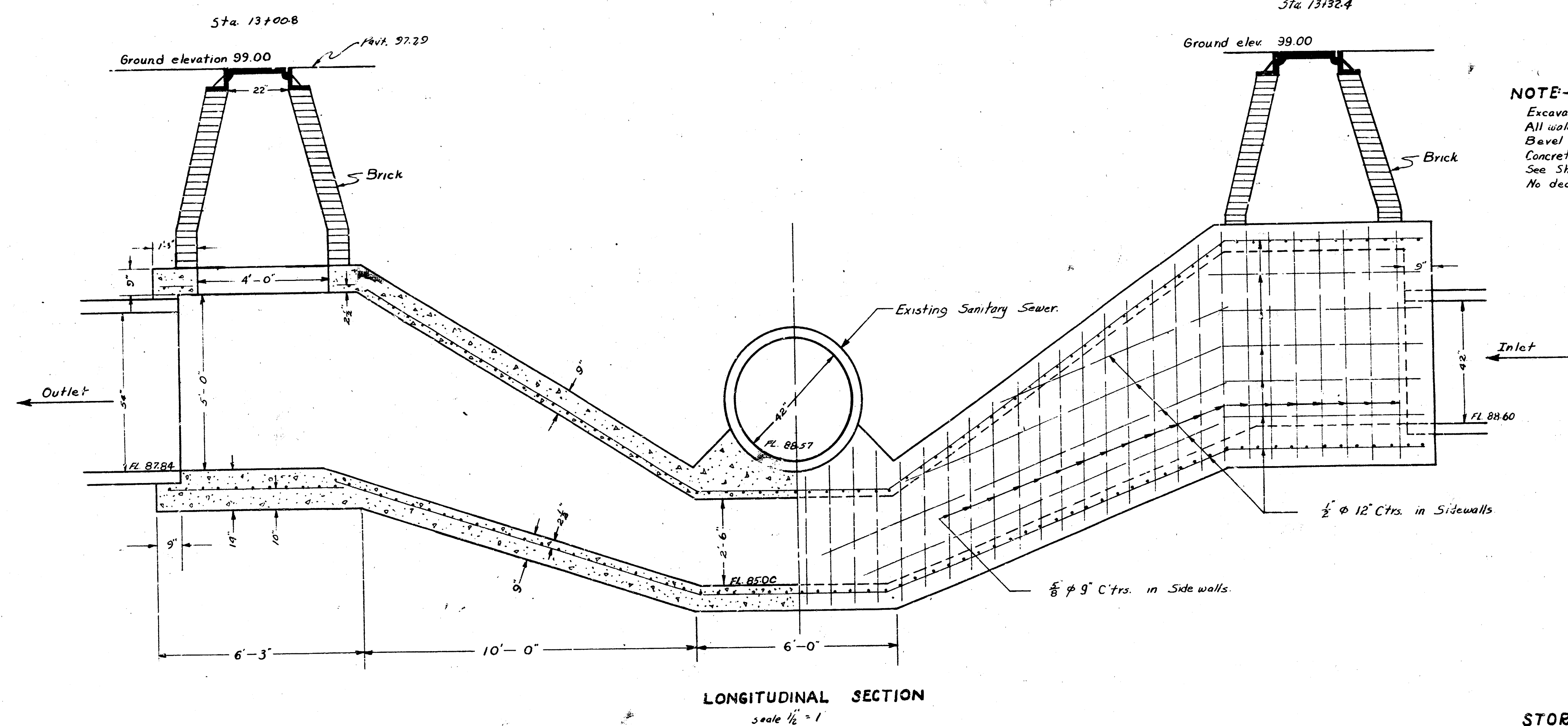
STORM SEWER # 38
 WICHITA, KANSAS
 L. K. WHITE CITY ENGINEER
 1950

14
18



PLAN

BILL OF MATERIAL	
Excavation	145 cu. yds.
Concrete	25 cu. yds.
Reinf. Steel	2335 lbs.
2 Brick Manholes	11'-8"

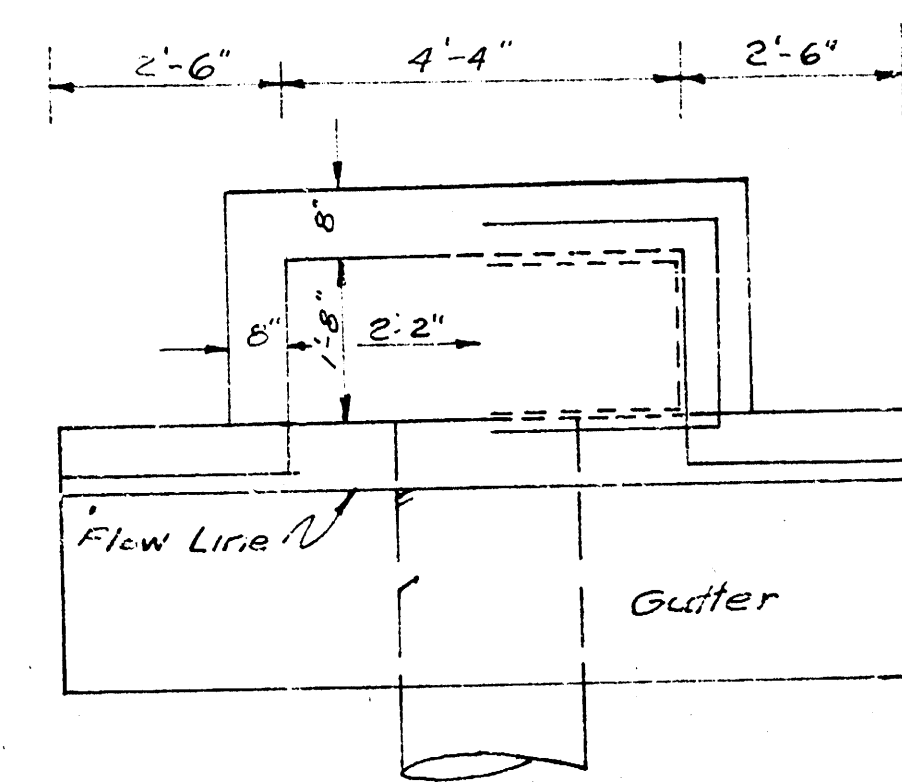


LONGITUDINAL SECTION
scale 1/4" = 1'

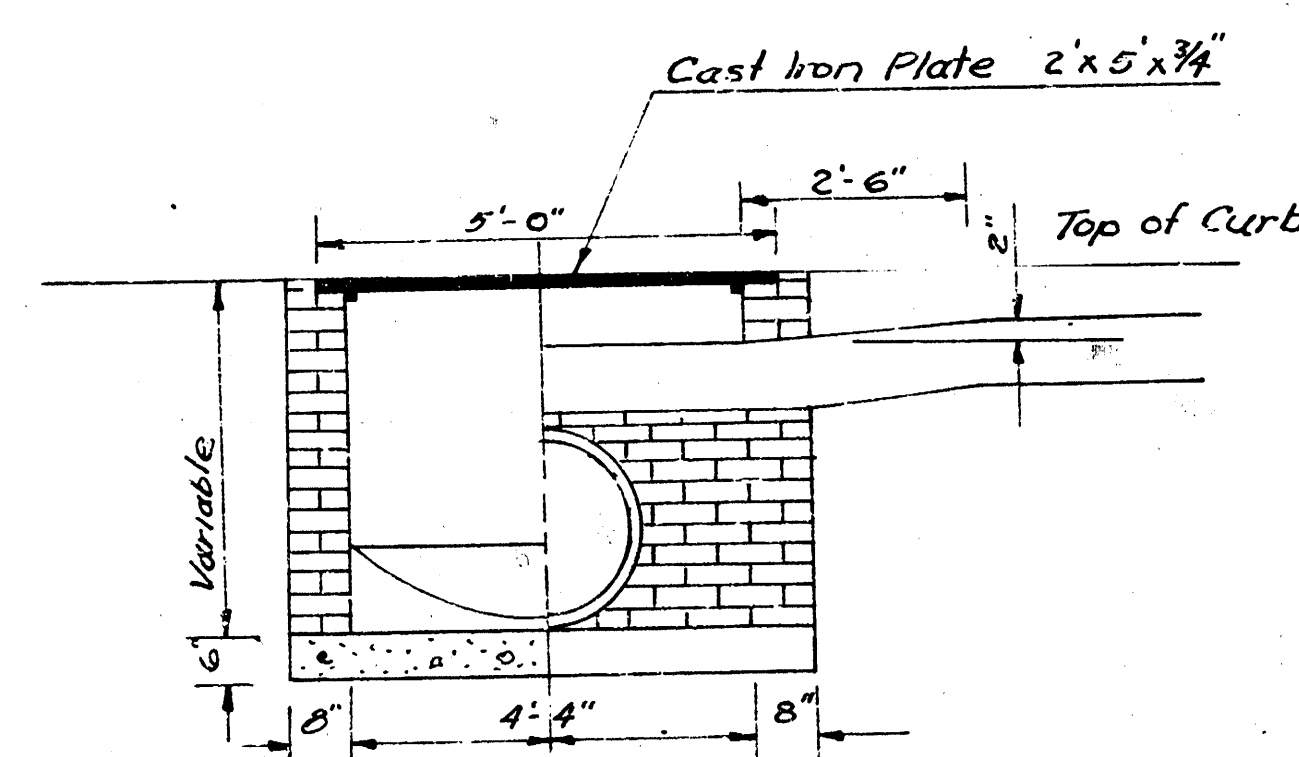
NOTE-

Excavation is figured 1 ft. outside of walls.
All walls to be formed on both sides.
Bevel all exposed edges with 3/4" Triangular Moulding.
Concrete to be mixed the same as noted for Manholes.
See 5b.
No deduction of concrete quantities for pipe opening.

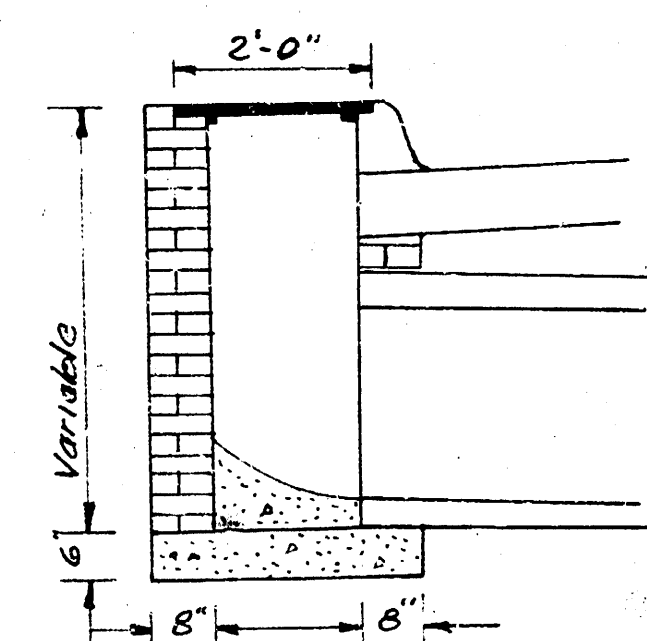
STORM SEWER #38
LAYOUT & DETAIL FOR INVERTED SIPHON
WICHITA, KANSAS
L. K. WHITE, CITY ENGINEER
1950



PLAN CATCH BASINS

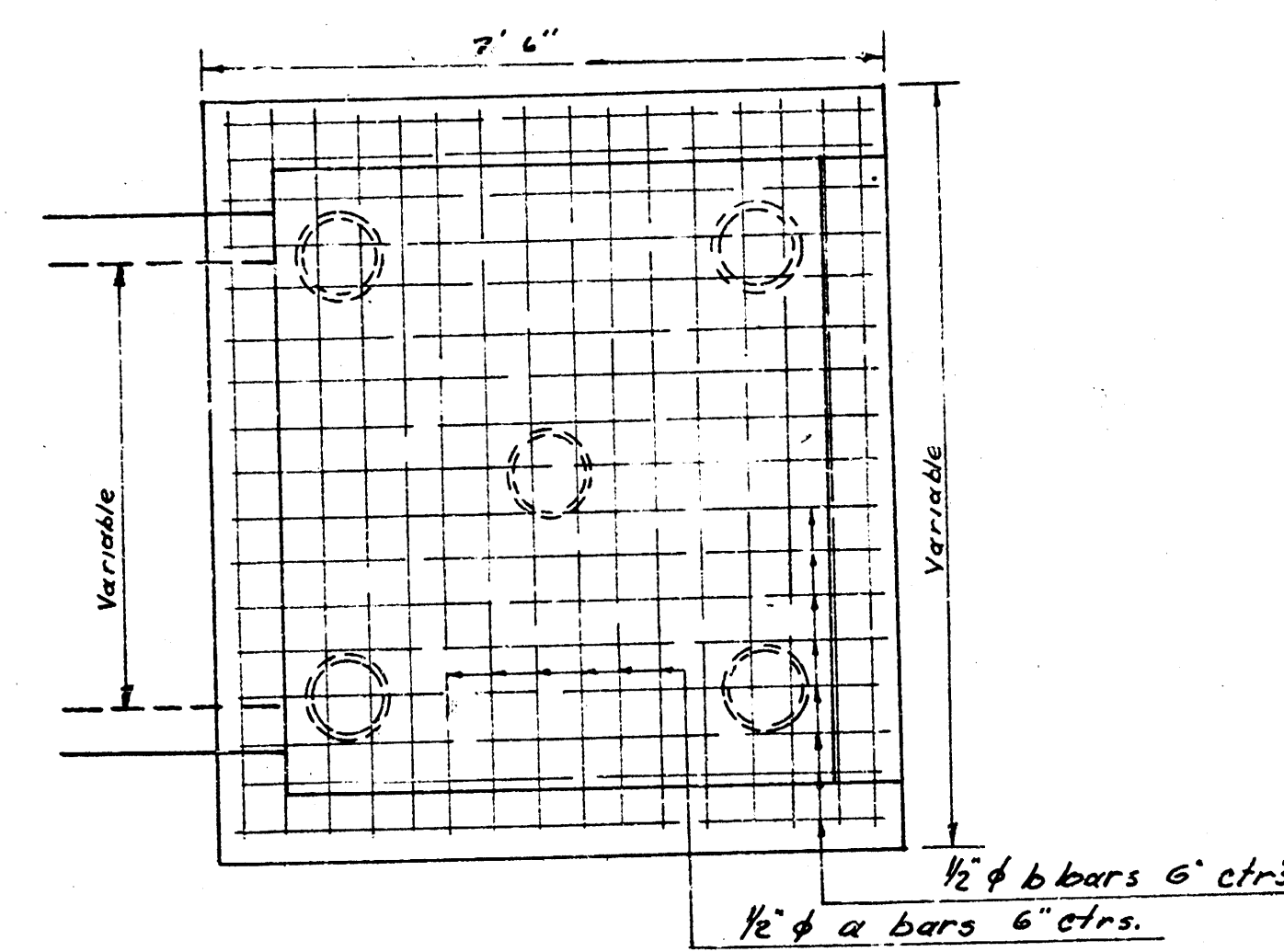


HALF SECTION HALF ELEVATION

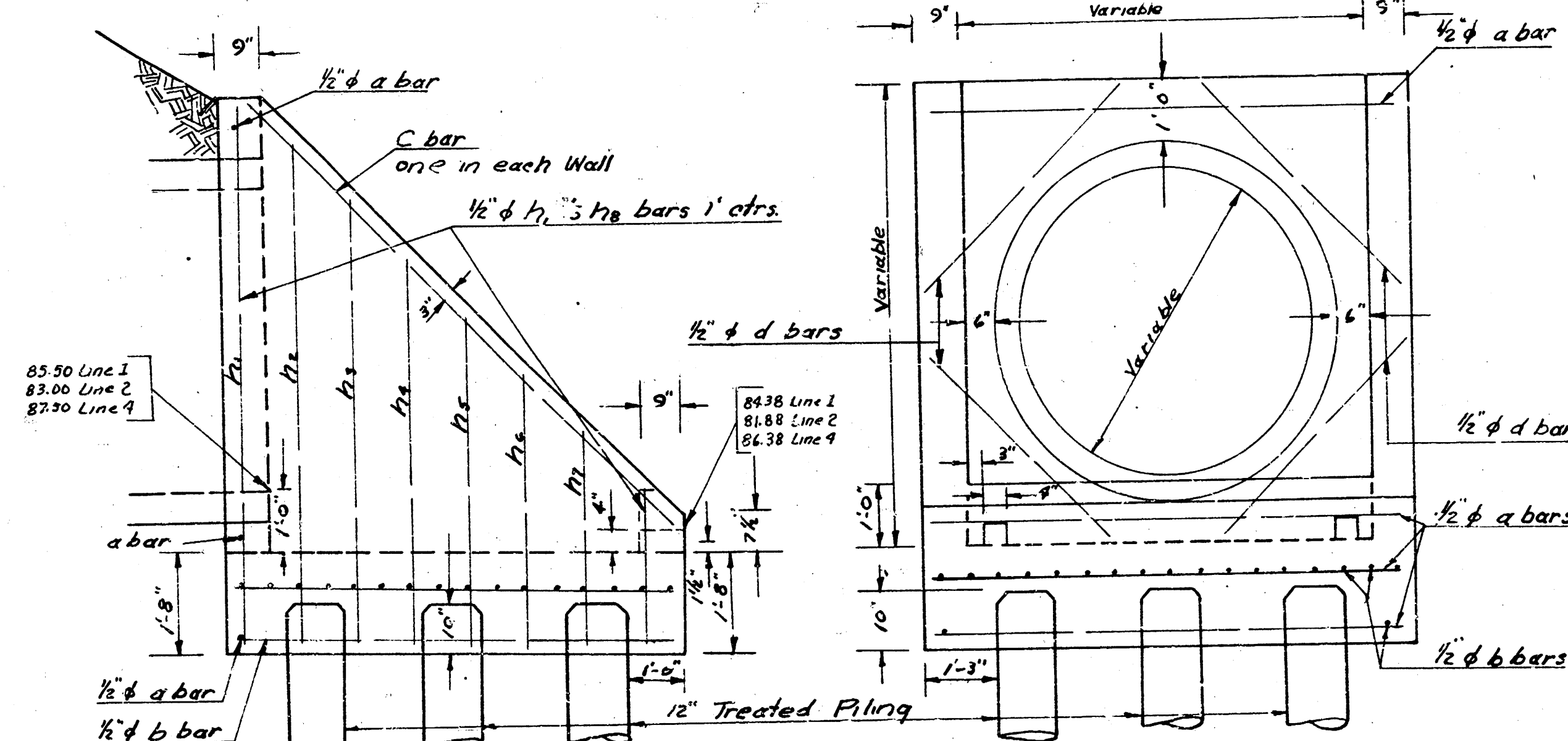


CROSS-SECTION
Scale 1/2"=1'

NOTE: - Where inlets are to be installed in streets that are paved, the minimum length of curb to be removed shall be 5'-4".
Floors of inlets shall be shaped as shown. No additions in concrete quantities shall be made for shaping floors.
Concrete for floors of inlets shall contain 7 sacks of cement per cu. yd. with only sufficient water so that moisture will flush to the surface when tamped into place.



PLAN



SIDE ELEVATION

FRONT ELEVATION

DETAILS OF OFFFALL

No Scale

NOTE: - Excavation is figured 1 ft. outside of walls. All walls to be formed on both sides. Bevel all exposed edges with a 1/4" triangular molding. Concrete to be mixed the same as noted for manholes.
No deduction of concrete quantities for pipe openings or pile heads.
Broken pail or rock shall be placed from front of headwall to edge of canal bed. This bed of rock to be not less than 2 ft. thick.

Reinf. Steel Schedule for Line No. 1												
Type	a	b	c	d	h ₁	h ₂	h ₃	h ₄	h ₅	h ₆	h ₇	h ₈
No.	20	20	2	4	2	2	2	2	2	2	2	2
Size	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"
Lgth.	8'-7"	7'-6"	16'-6"	5'-5"	9'-9"	9'-9"	7'-8"	6'-7"	5'-6"	4'-5"	3'-5"	2'-8"

Reinf. Steel Schedule for Line No. 2												
Type	a	b	c	d	h ₁	h ₂	h ₃	h ₄	h ₅	h ₆	h ₇	h ₈
No.	20	18	2	4	2	2	2	2	2	2	2	2
Size	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"
Lgth.	7'-5"	7'-6"	5'-5"	5'-0"	8'-5"	7'-5"	6'-10"	5'-11"	5'-0"	4'-1"	3'-7"	2'-5"

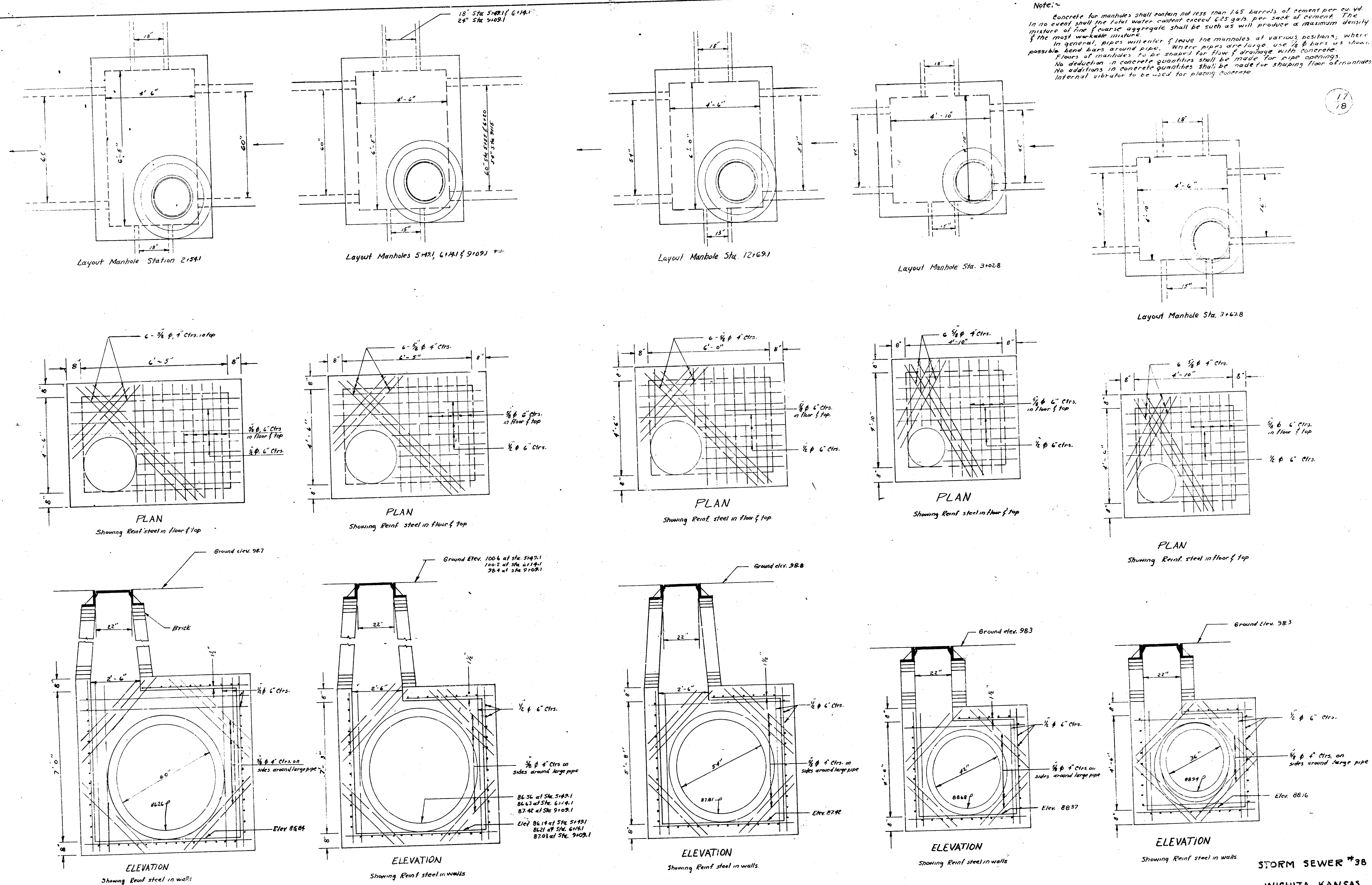
Reinf. Steel Schedule for Line No. 4												
Type	a	b	c	d	h ₁	h ₂	h ₃	h ₄	h ₅	h ₆	h ₇	h ₈
No.	20	16	2	4	2	2	2	2	2	2	2	2
Size	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"
Lgth.	3'-3"	2'-6"	8'-11"	3'-5"	6'-7"	5'-8"	5'-10"	5'-2"	4'-9"	3'-11"	3'-7"	2'-7"

Bill of Material for Line No. 1.	
Excav.	24.1 cu. yds.
Conc.	2.9 cu. yds.
Reinf. Steel	309 lbs.
Piling	5 - 20' Treated piles
Rock	3 cu. yds.

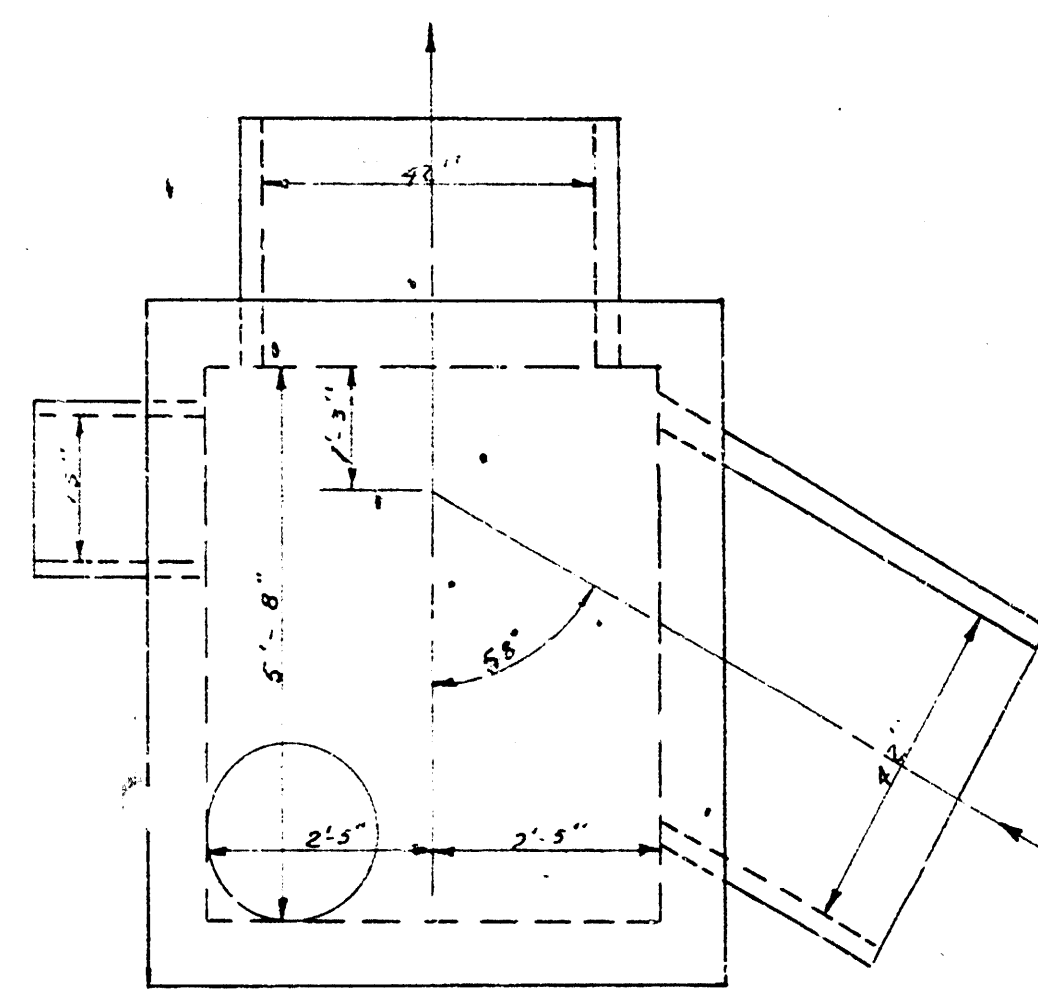
Bill of Material for Line No. 2	
Excav.	18.7 cu. yds.
Conc.	6.6 cu. yds.
Reinf. Steel	275 lbs.
Piling	5 - 20' Treated piles
Rock	3 cu. yds.

Bill of Material for Line No. 4	
Excav.	10.5 cu. yds.
Conc.	5.4 cu. yds.
Reinf. Steel	213 lbs.
Piling	5 - 20' Treated piles
Rock	3 cu. yds.

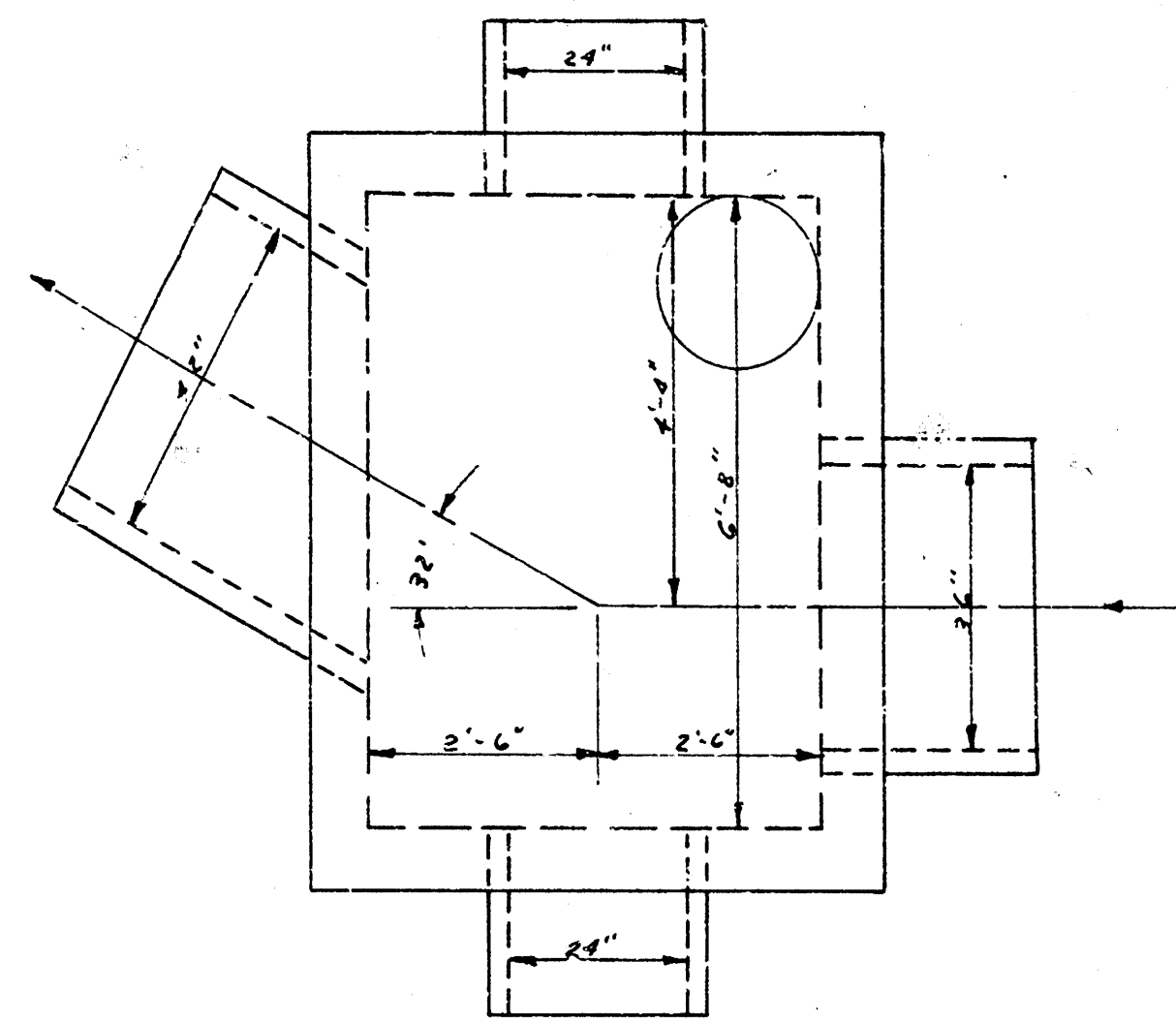
Storm Sewer #38
Wichita, Kansas
L. K. White - City Engineer
Nov. 1950



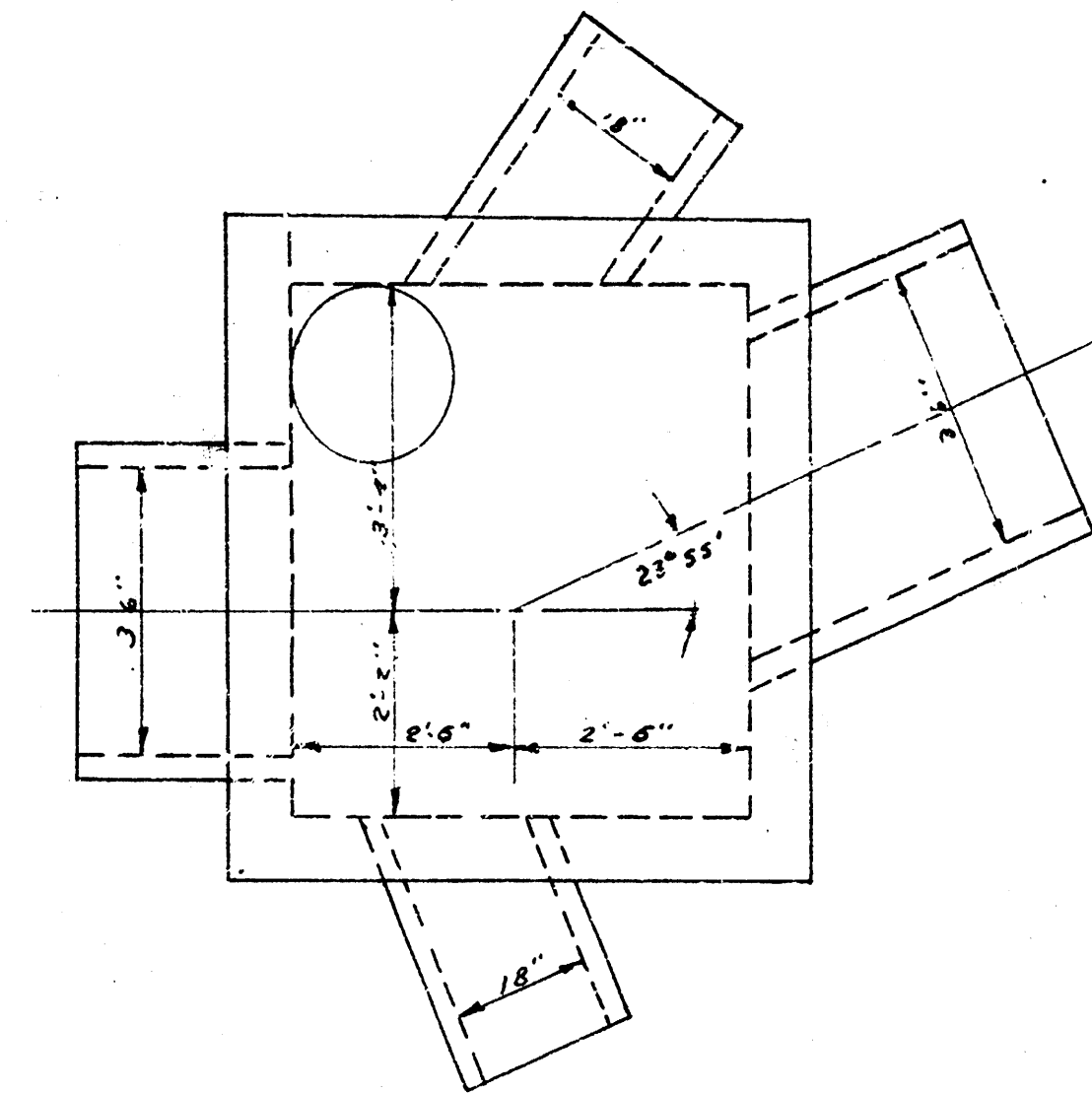
STORM SEWER #38
WICHITA, KANSAS



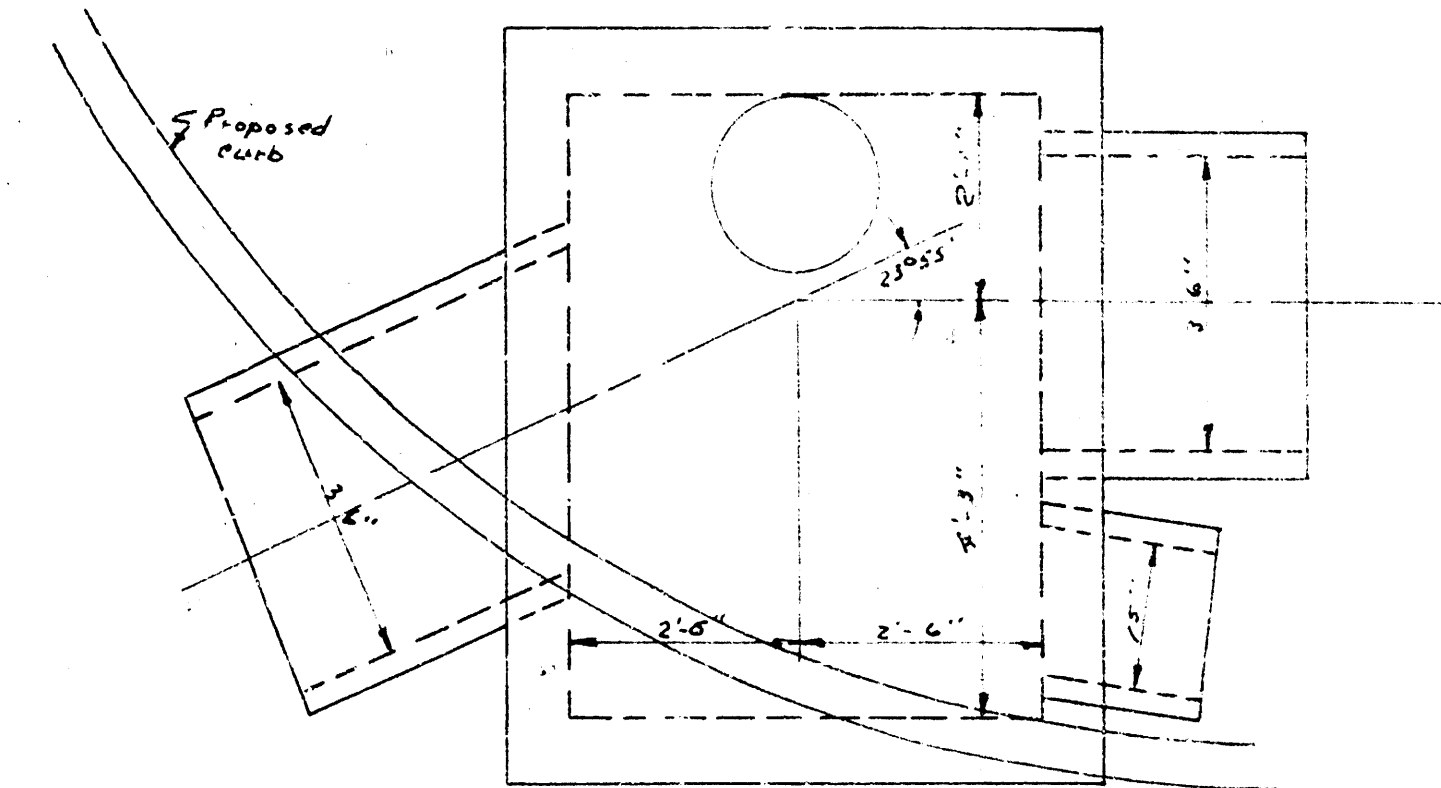
Layout Manhole Sta. 18+06.7



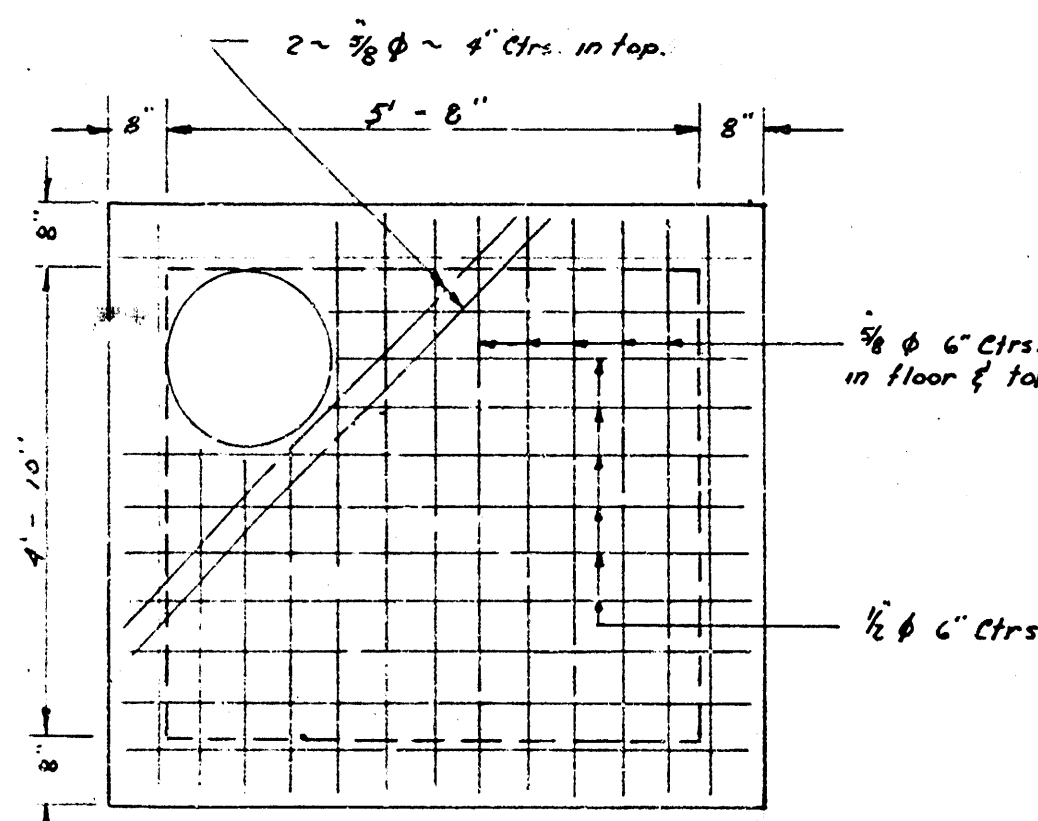
Layout Manhole Sta. 18+33.9



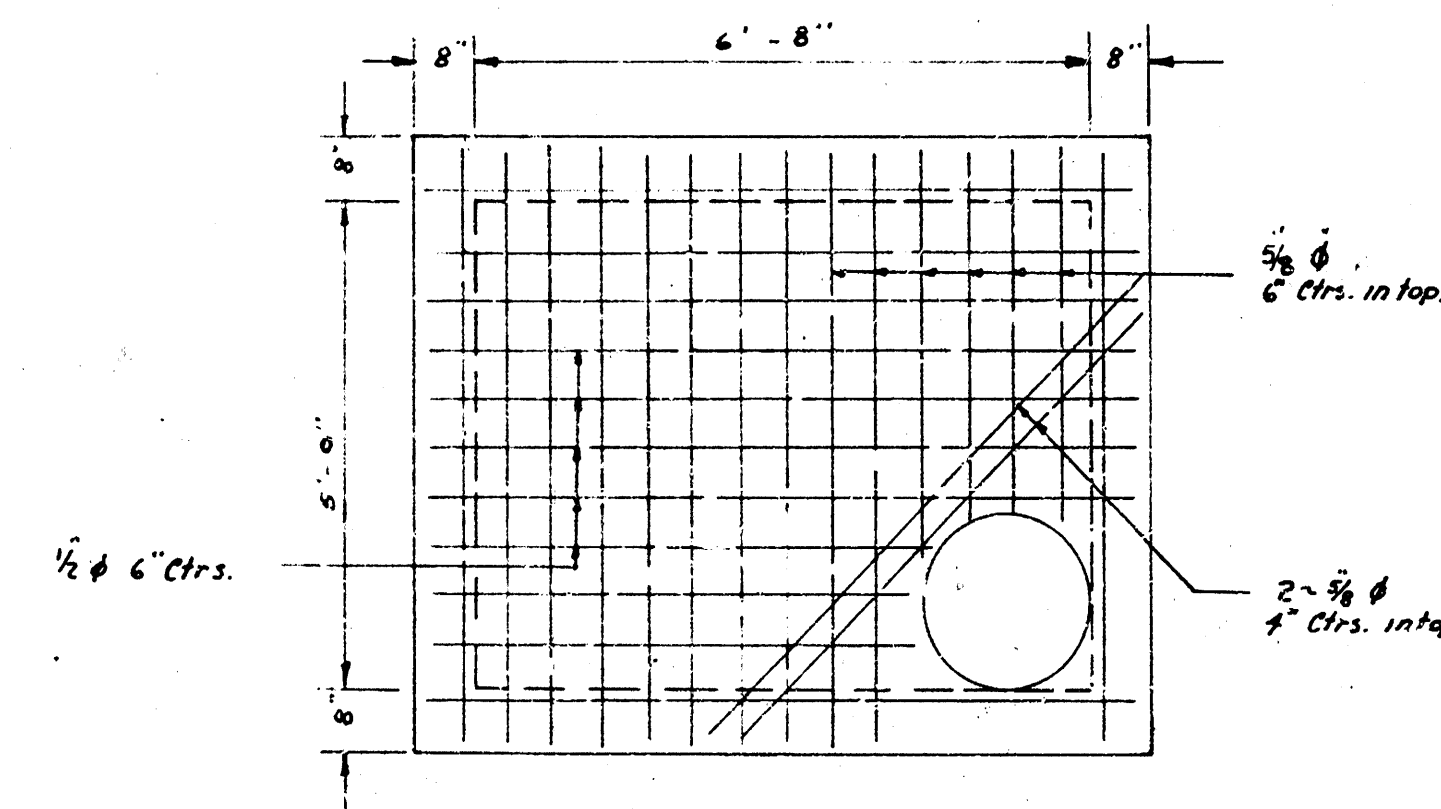
Layout Manhole Sta. 24+51.35



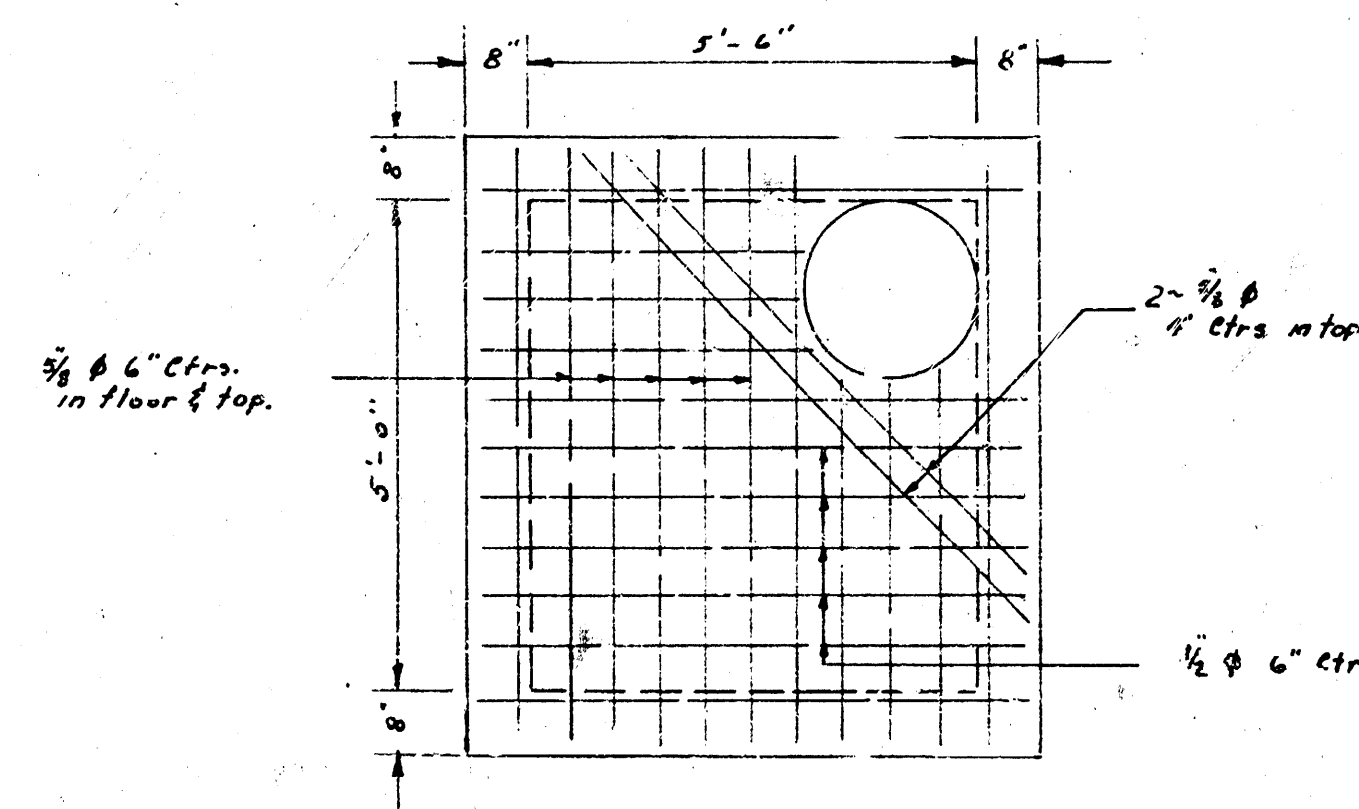
Layout Manhole Sta. 25+13.85



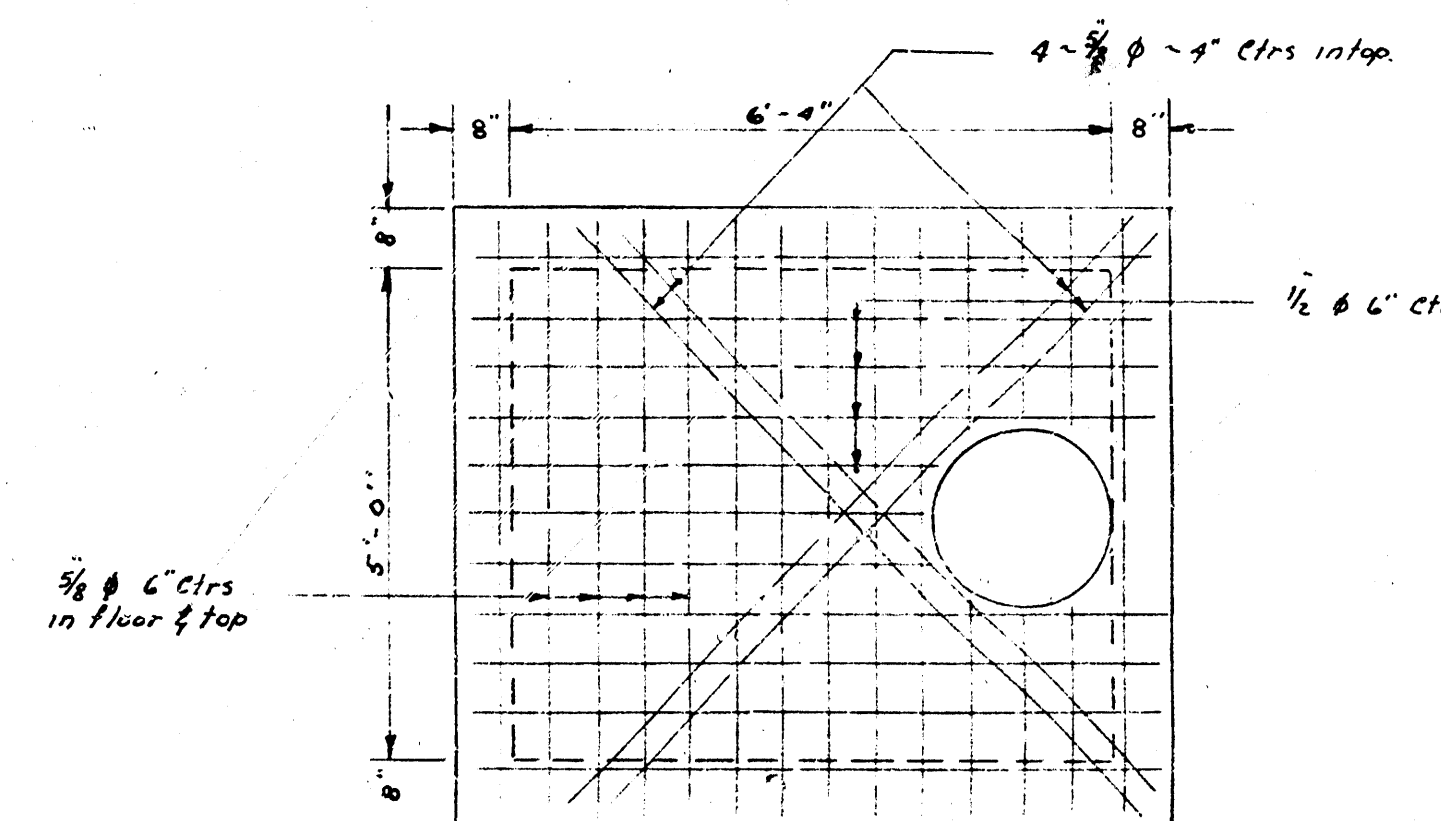
Plan
Showing Reinf. steel in floor & top.



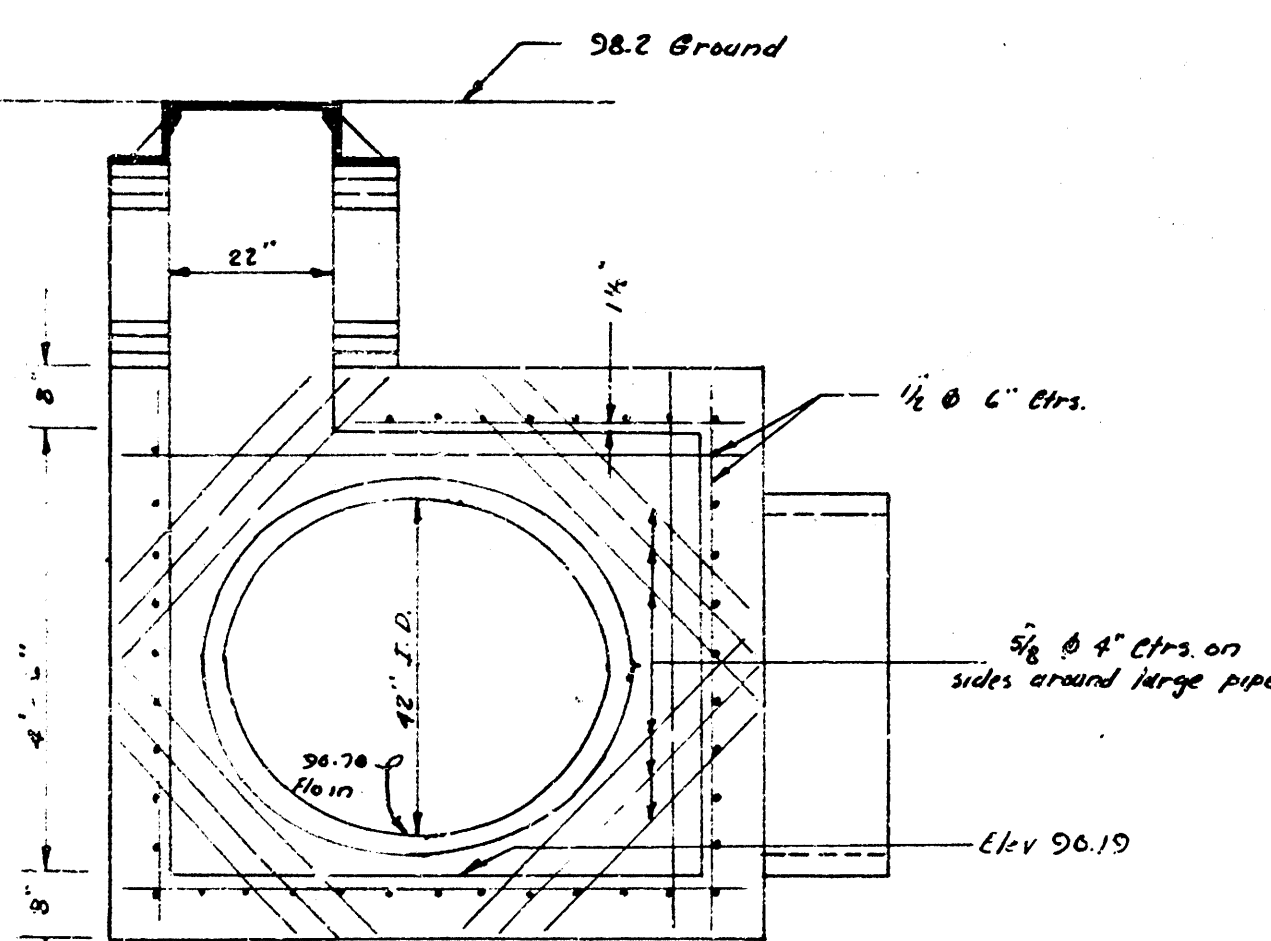
Plan
Showing Reinf. steel in floor & top.



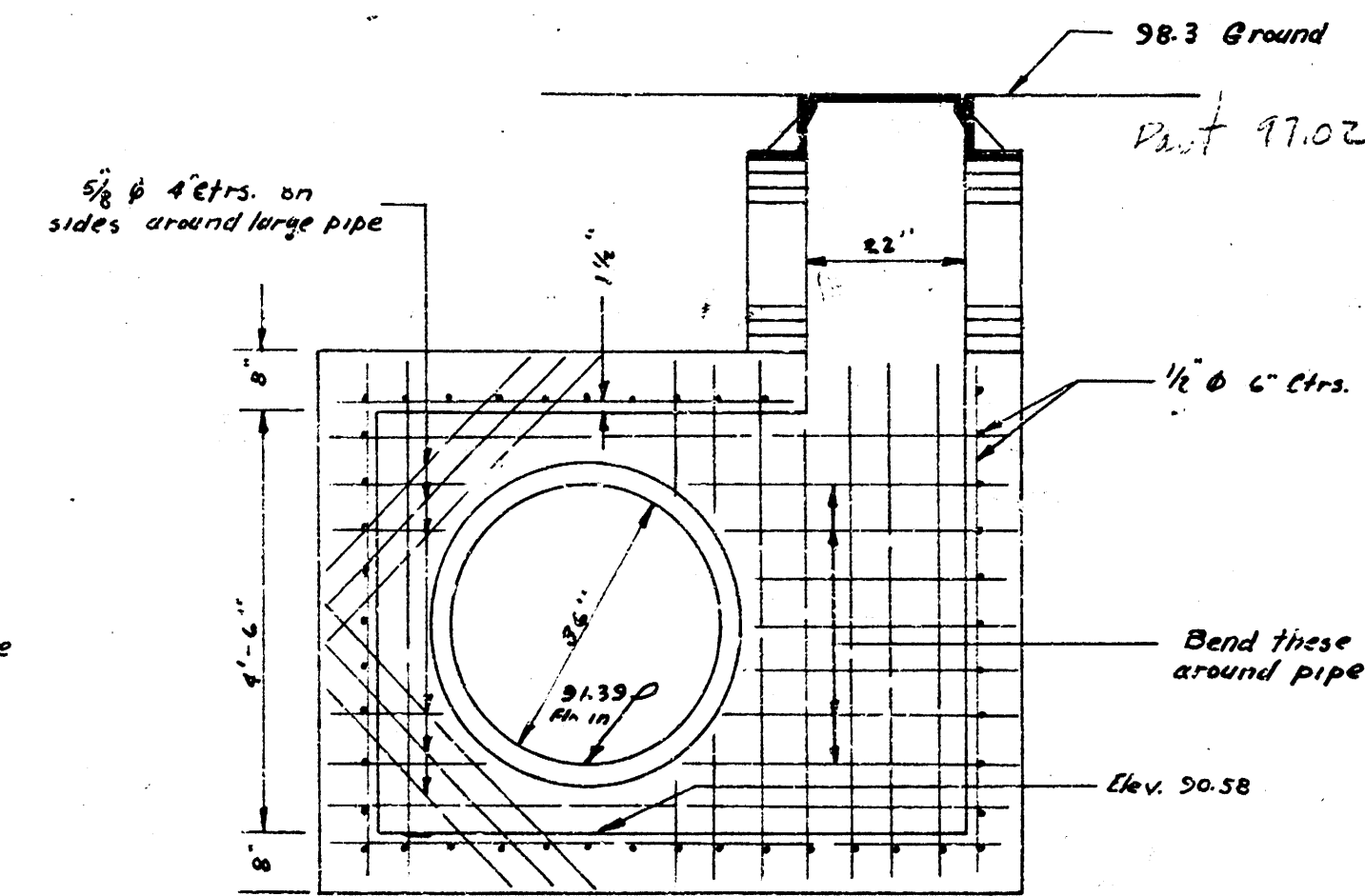
Plan
Showing Reinf. steel in floor & top.



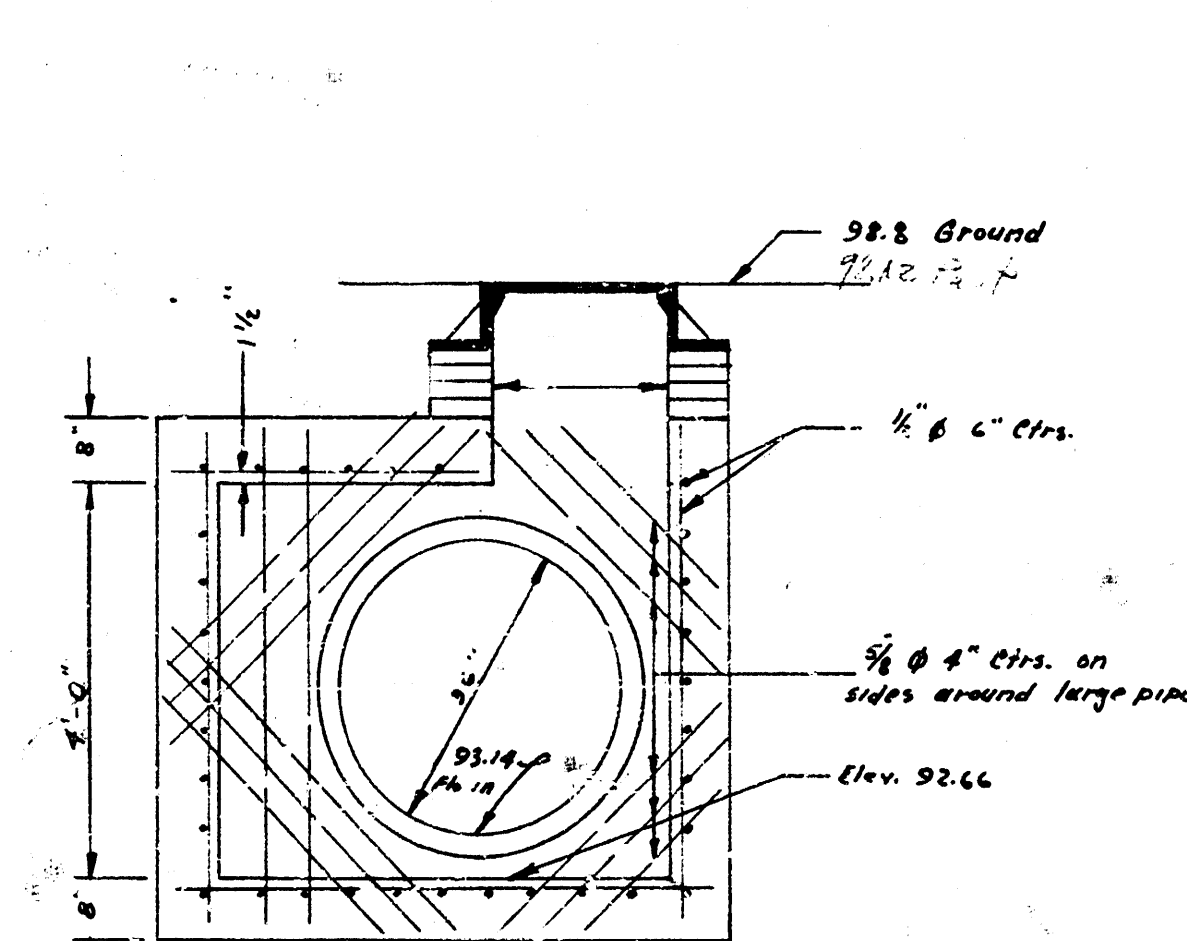
Plan
Showing Reinf. steel in floor & top.



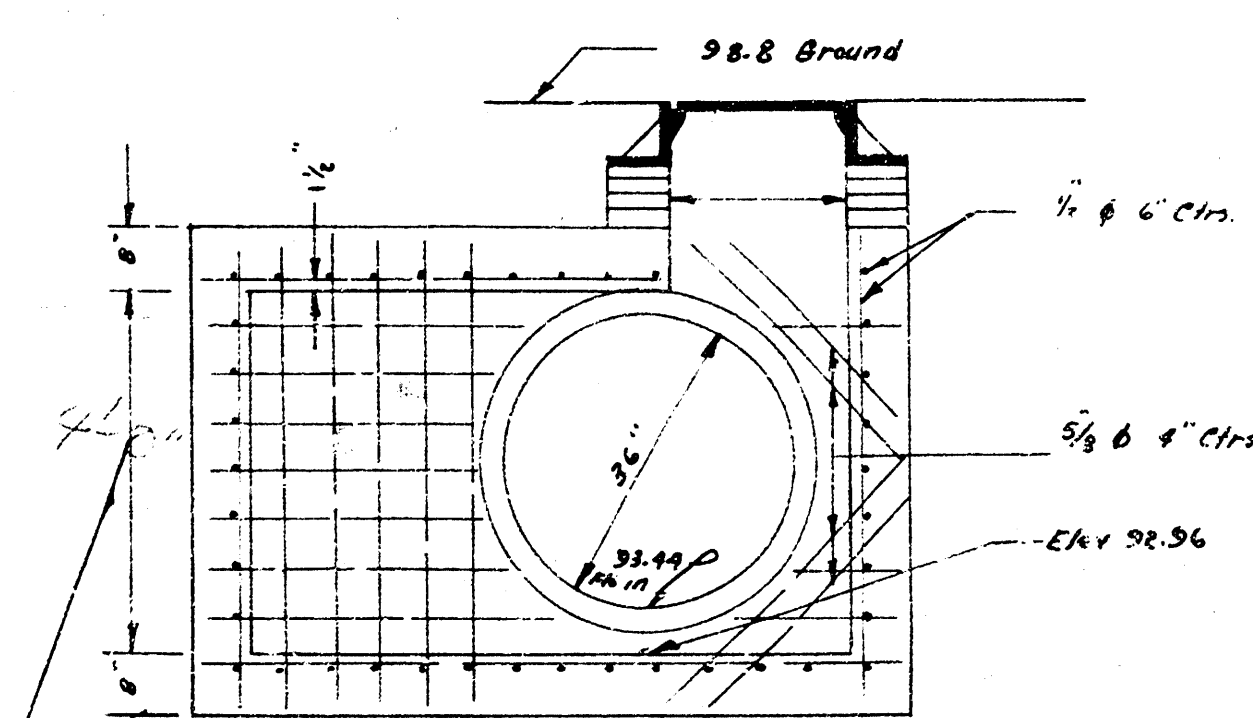
Elevation
Showing Reinf. steel in walls.



Elevation
Showing Reinf. steel in walls.



Elevation
Showing Reinf. steel in walls.



Elevation
Showing Reinf. steel in walls.

Hold this dimension to a minimum so top of box will be below proposed pipe.