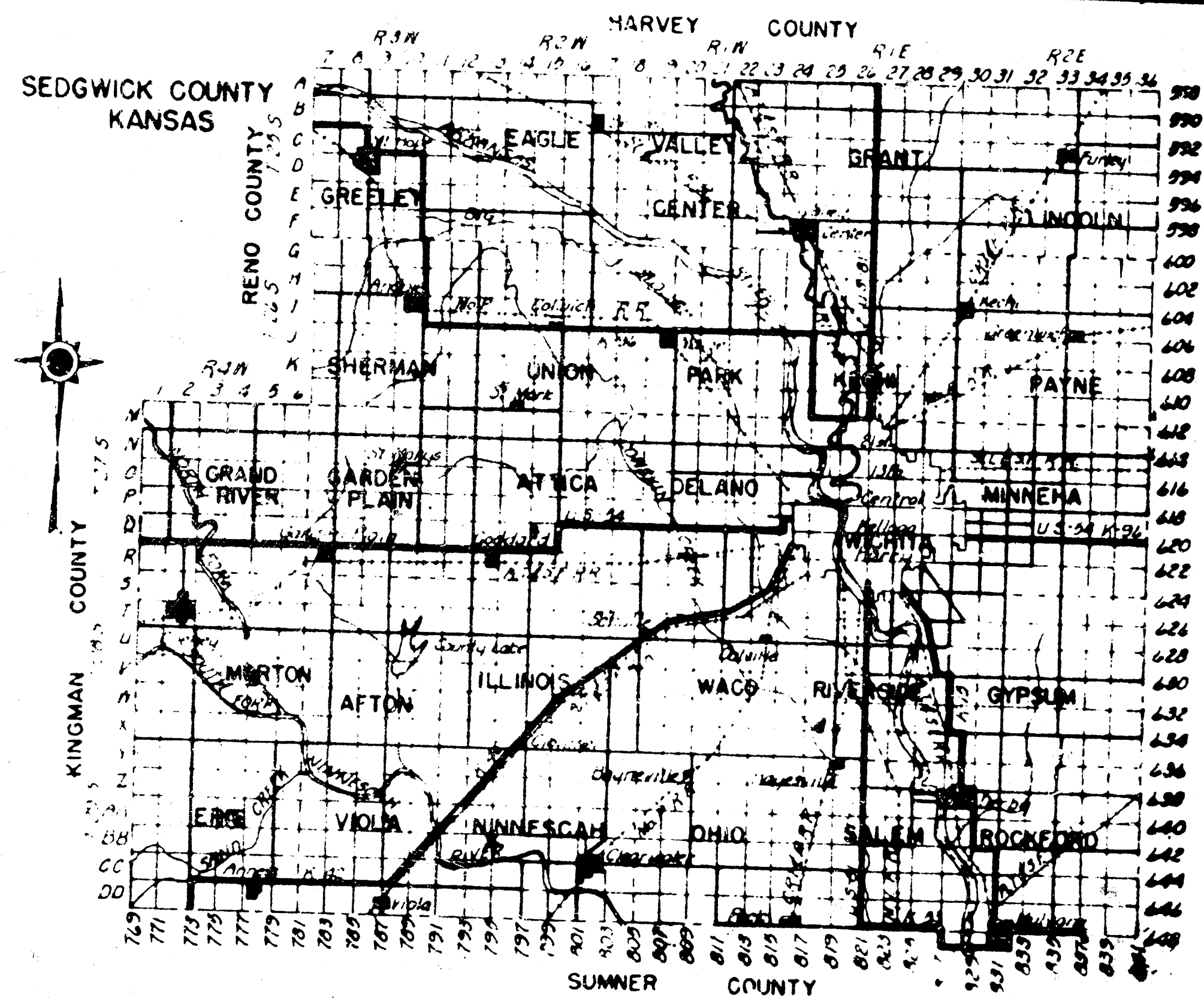




SEDGWICK COUNTY ENGINEERING DEPARTMENT

PLAN AND PROFILE OF PROPOSED

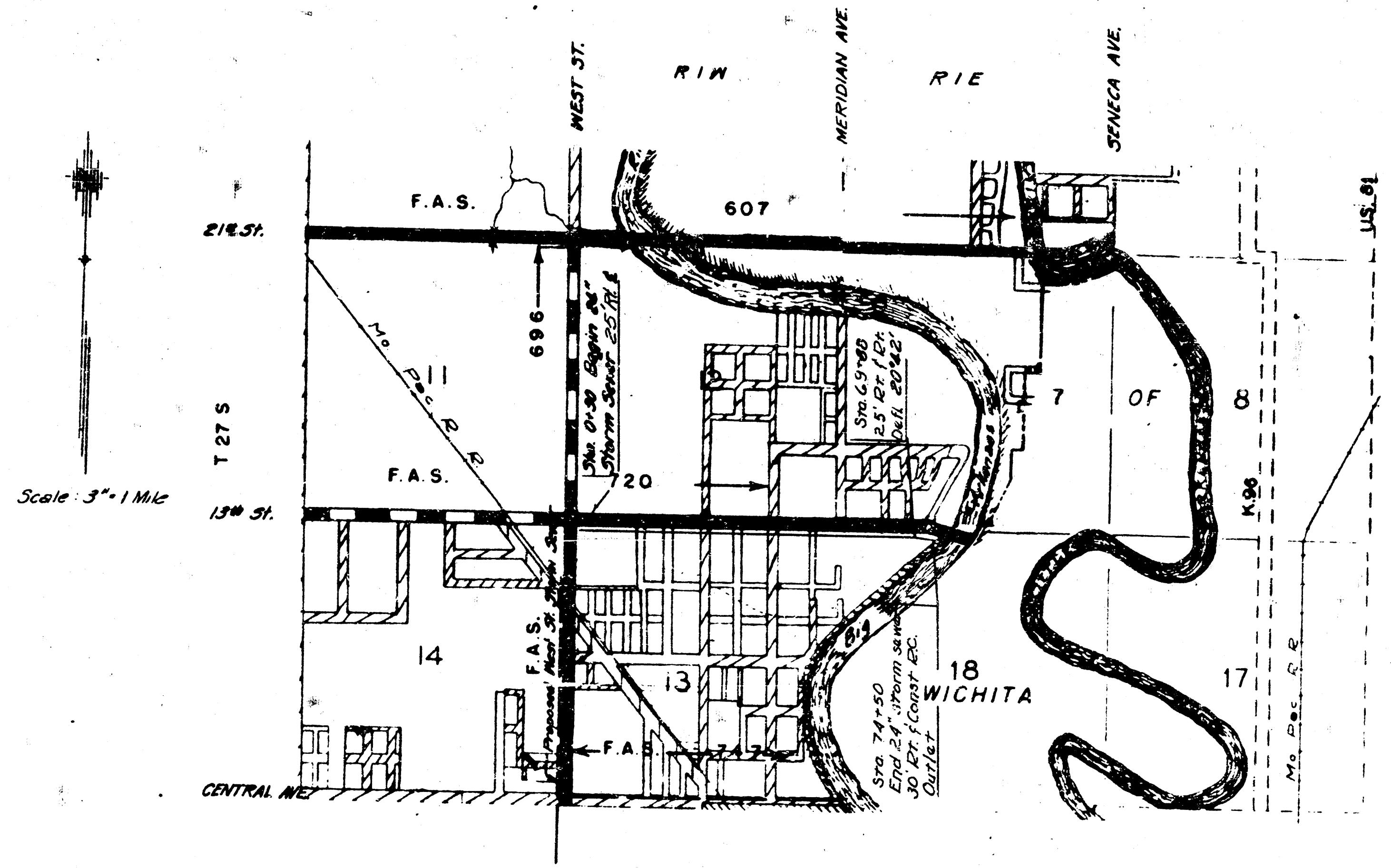
13 TH. STREET STORM SEWER

DIST.	STATE	PROJ.	SHEET	TOTAL
NO.	NO.	NO.	NO.	SHEETS
4	KANS.		1	5

INDEX TO SHEETS	
1	Title Sheet
2-3	Plan and Profile
4	sewer Appurtenances

SUMMARY OF QUANTITIES	
Lay 24" R.C. Pipe	7475 L.F.
Lay 12" " "	156 L.F.
Construct Manholes (14)	84 V.F.
Construct Curb Inlets	8 Ea.
Install 12" R.C. Pipe	4 Ea.
Construct Conc. Outlet	7 Ea.
Install Manhole Steps	53 Ea.
Total Manhole Construction	84 L.F.
Install Concrete Brick Inlet (Cast iron grate)	1 Ea.
Drive 12" Piling (4)	80 L.F.

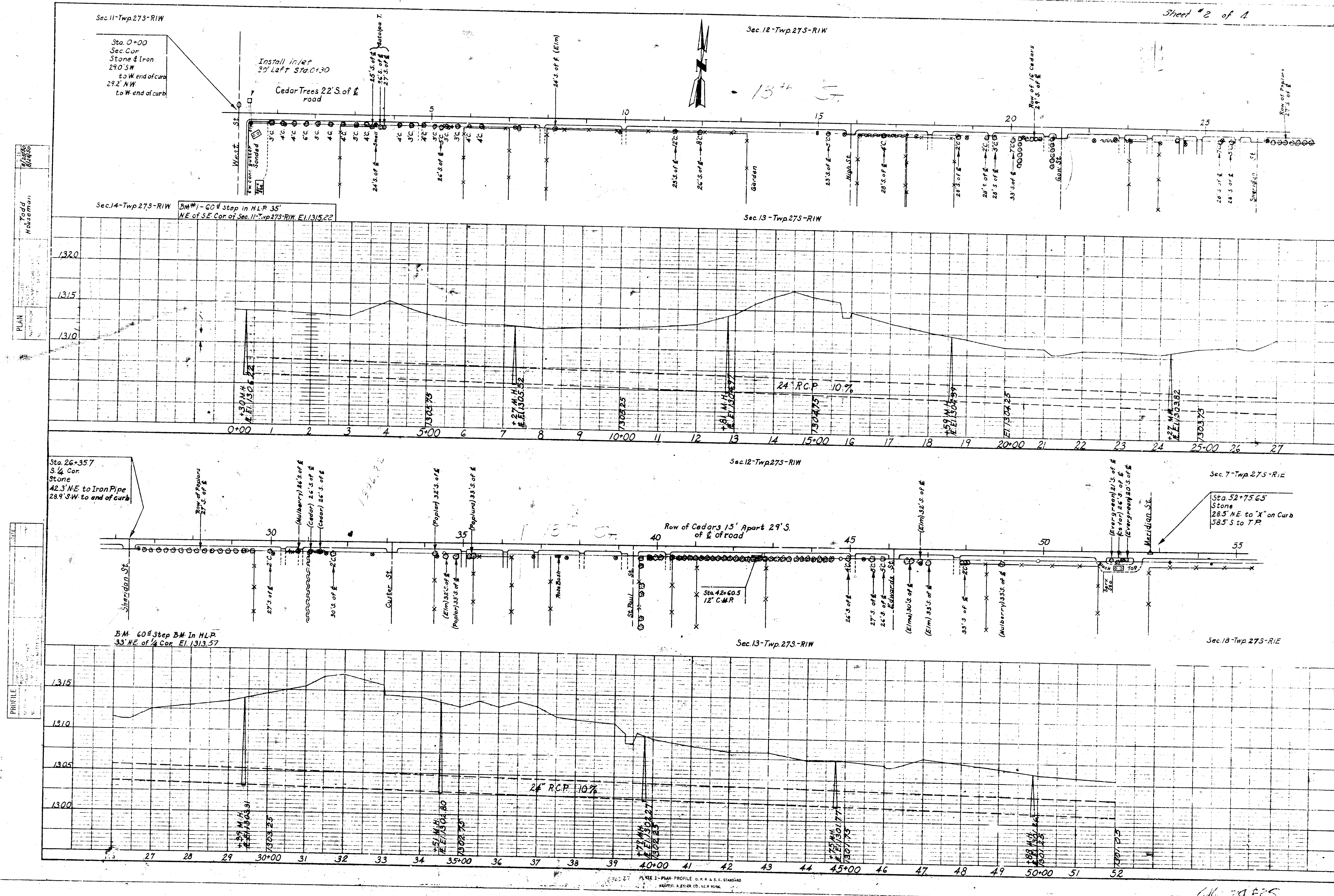
BILL OF MATERIAL	
12" R.C. Pipe	156 L.F.
24" " "	7475 L.F.
Brick	14,380 Ea.
Manhole Covers (14)	980 Lbs.
Manhole Rings (14)	476 Lbs.
Mortar	13.6 C.Y.
Concrete in Manhole Bases	12.6 C.Y.
Concrete for Outlet	7.0 C.Y.
Concrete in Inlets	4.0 C.Y.
Reinforcing Steel (Inlets)	133 Lbs.
Reinforcing Steel (Outlet)	397 Lbs.
Curb and Outlet 3H. Plates	950 Lbs.
Total Cast Iron	1750 Lbs.
Total Concrete	372 C.Y.
Total Reinforcing Steel	531 Lbs.
Total Steel Plates	950 Lbs.
Total Steel Steps	287 Lbs.
12" x 20' Treated Timber Piling	80 L.F.



Gross Length of Project	7475	Feet
Exceptions	None	Feet
Additions	None	Feet
Net Length of Project	7475	Feet

Oct. 6, 1930
Supt. 1930
Revised July 1930 M.L.F.

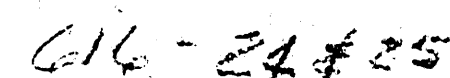
616-24825 4 sheets

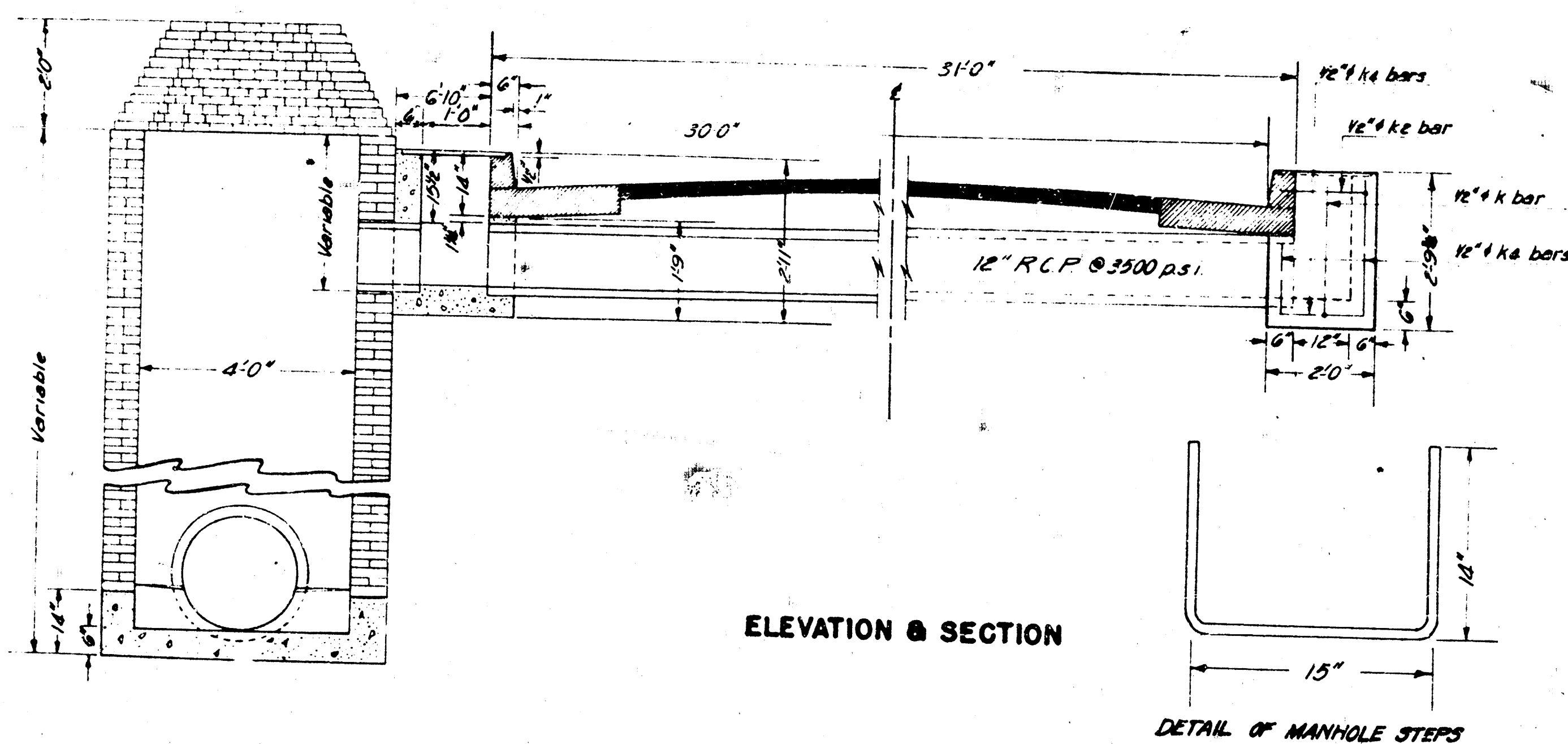


PLAN

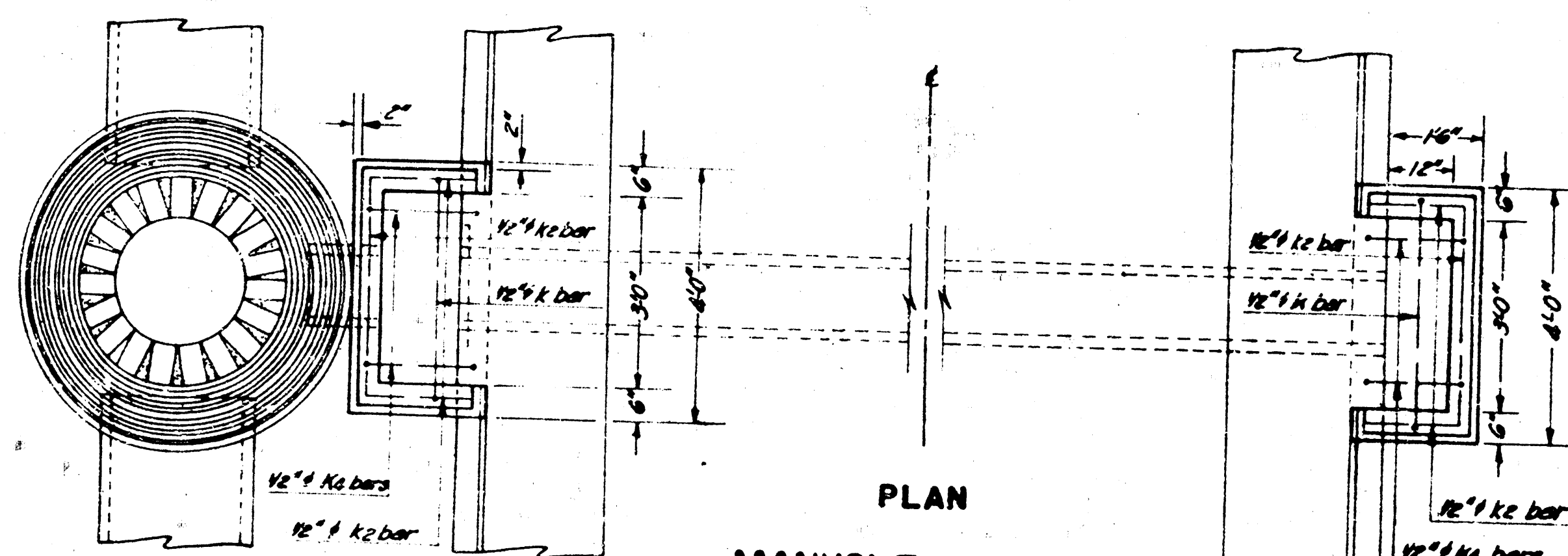
PROFILE

616 24 E 25

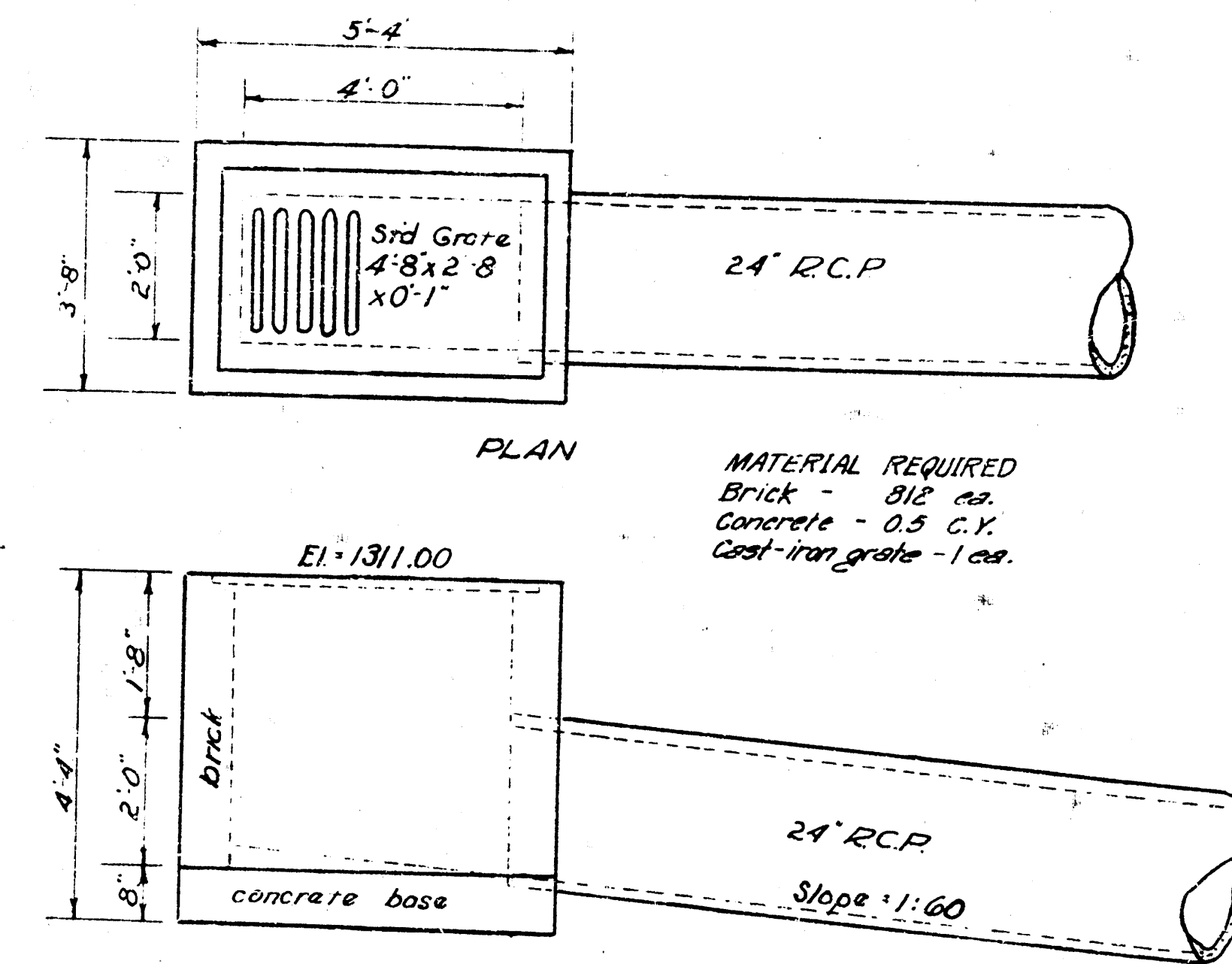
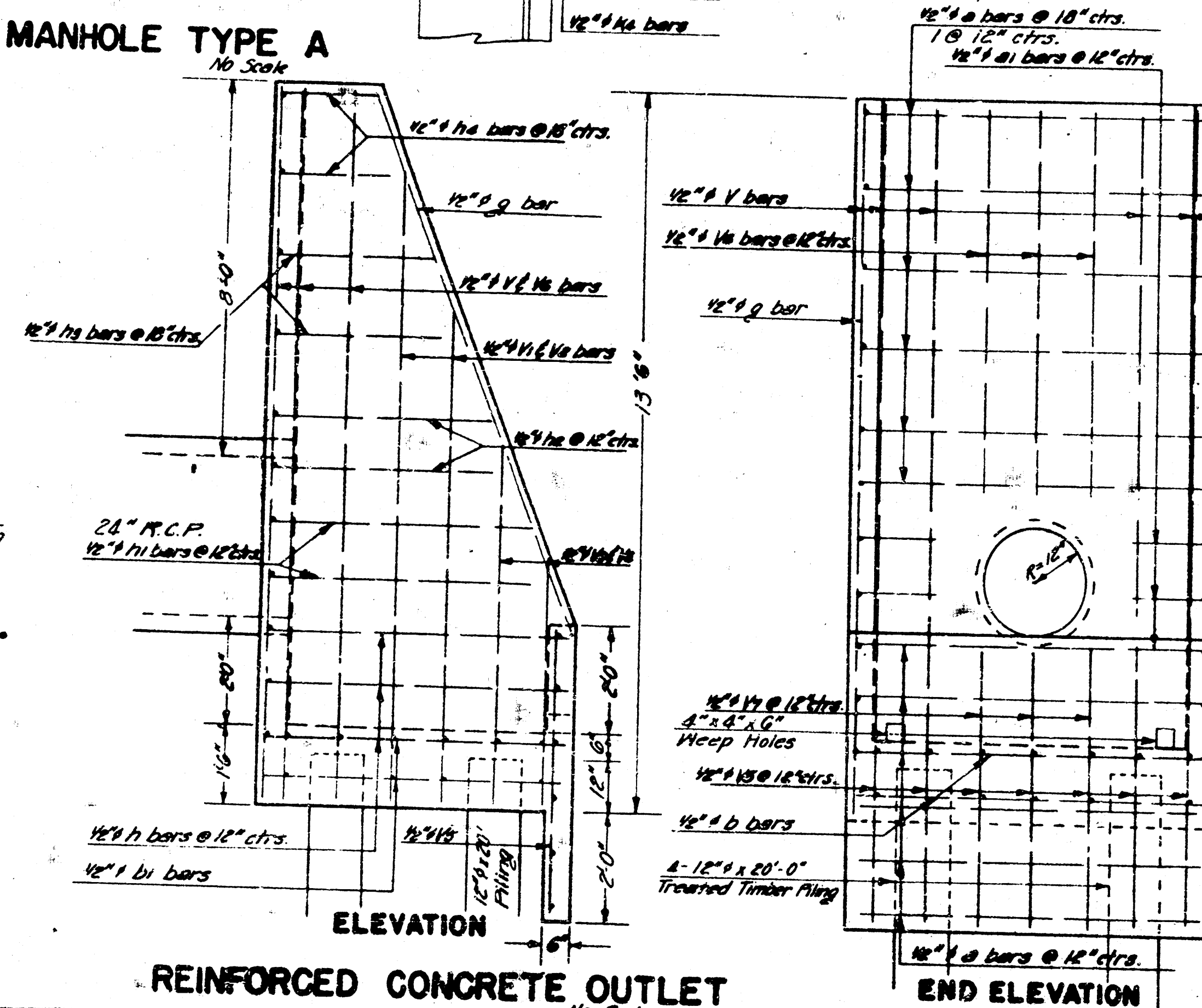
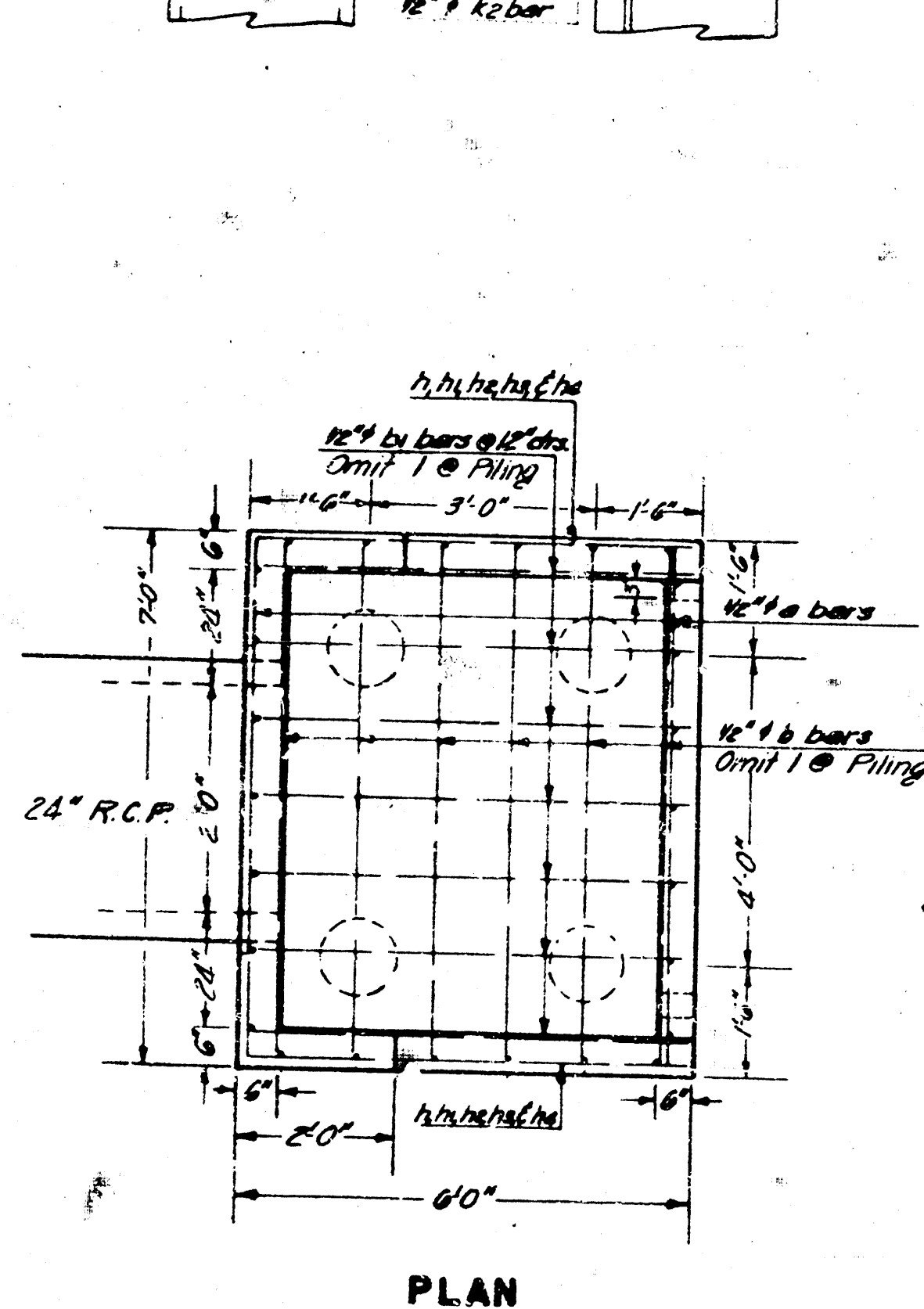




DETAIL OF MANHOLE STEPS



Note: Manhole covers along 13th St. to be Cast Iron Type Ring and Cover @ 100 lbs. Brick openings in all Manholes to be 22" in diameter. 3/4" steel to be used for steps. Spacing between steps to be 15". 53 required.



CONCRETE AND BRICK INLET WITH GRATE AND CROSS-ROAD PIPE

BILL OF MATERIAL FOR BASINS

BAR	NO.	SIZE	LENGTH	TOTAL LBS. RE-STEEL
K	1	1/2"	10'	133
K1	1	1/2"	10'	133
K2	1	1/2"	10'	133
K3	1	1/2"	10'	133
K4	1	1/2"	10'	133
K5	1	1/2"	10'	133
K6	1	1/2"	10'	133
K7	1	1/2"	10'	133
K8	1	1/2"	10'	133
K9	1	1/2"	10'	133
K10	1	1/2"	10'	133
K11	1	1/2"	10'	133
K12	1	1/2"	10'	133
K13	1	1/2"	10'	133
K14	1	1/2"	10'	133
K15	1	1/2"	10'	133
K16	1	1/2"	10'	133
K17	1	1/2"	10'	133
K18	1	1/2"	10'	133
K19	1	1/2"	10'	133
K20	1	1/2"	10'	133
K21	1	1/2"	10'	133
K22	1	1/2"	10'	133
K23	1	1/2"	10'	133
K24	1	1/2"	10'	133
K25	1	1/2"	10'	133
K26	1	1/2"	10'	133
K27	1	1/2"	10'	133
K28	1	1/2"	10'	133
K29	1	1/2"	10'	133
K30	1	1/2"	10'	133
K31	1	1/2"	10'	133
K32	1	1/2"	10'	133
K33	1	1/2"	10'	133
K34	1	1/2"	10'	133
K35	1	1/2"	10'	133
K36	1	1/2"	10'	133
K37	1	1/2"	10'	133
K38	1	1/2"	10'	133
K39	1	1/2"	10'	133
K40	1	1/2"	10'	133
K41	1	1/2"	10'	133
K42	1	1/2"	10'	133
K43	1	1/2"	10'	133
K44	1	1/2"	10'	133
K45	1	1/2"	10'	133
K46	1	1/2"	10'	133
K47	1	1/2"	10'	133
K48	1	1/2"	10'	133
K49	1	1/2"	10'	133
K50	1	1/2"	10'	133
K51	1	1/2"	10'	133
K52	1	1/2"	10'	133
K53	1	1/2"	10'	133
K54	1	1/2"	10'	133
K55	1	1/2"	10'	133
K56	1	1/2"	10'	133
K57	1	1/2"	10'	133
K58	1	1/2"	10'	133
K59	1	1/2"	10'	133
K60	1	1/2"	10'	133
K61	1	1/2"	10'	133
K62	1	1/2"	10'	133
K63	1	1/2"	10'	133
K64	1	1/2"	10'	133
K65	1	1/2"	10'	133
K66	1	1/2"	10'	133
K67	1	1/2"	10'	133
K68	1	1/2"	10'	133
K69	1	1/2"	10'	133
K70	1	1/2"	10'	133
K71	1	1/2"	10'	133
K72	1	1/2"	10'	133
K73	1	1/2"	10'	133
K74	1	1/2"	10'	133
K75	1	1/2"	10'	133
K76	1	1/2"	10'	133
K77	1	1/2"	10'	133
K78	1	1/2"	10'	133
K79	1	1/2"	10'	133
K80	1	1/2"	10'	133
K81	1	1/2"	10'	133
K82	1	1/2"	10'	133
K83	1	1/2"	10'	133
K84	1	1/2"	10'	133
K85	1	1/2"	10'	133
K86	1	1/2"	10'	133
K87	1	1/2"	10'	133
K88	1	1/2"	10'	133
K89	1	1/2"	10'	133
K90	1	1/2"	10'	133
K91	1	1/2"	10'	133
K92	1	1/2"	10'	133
K93	1	1/2"	10'	133
K94	1	1/2"	10'	133
K95	1	1/2"	10'	133
K96	1	1/2"	10'	133
K97	1	1/2"	10'	133
K98	1	1/2"	10'	133
K99	1	1/2"	10'	133
K100	1	1/2"	10'	133

BILL OF MATERIAL FOR CONCRETE OUTLET

BAR	NO.	SIZE	LENGTH	TOTAL LBS. RE-STEEL
K	1	1/2"	10'	133
K1	1	1/2"	10'	133
K2	1	1/2"	10'	133
K3	1	1/2"	10'	133
K4	1	1/2"	10'	133
K5	1	1/2"	10'	133
K6	1	1/2"	10'	133
K7	1	1/2"	10'	133
K8	1	1/2"	10'	133
K9	1	1/2"	10'	133
K10	1	1/2"	10'	133
K11	1	1/2"	10'	133
K12	1	1/2"	10'	133
K13	1	1/2"	10'	133
K14	1	1/2"	10'	133
K15	1	1/2"	10'	133
K16	1	1/2"	10'	133
K17	1	1/2"	10'	133
K18	1	1/2"	10'	133
K19	1	1/2"	10'	133
K20	1	1/2"	10'	133
K21	1	1/2"	10'	133
K22	1	1/2"	10'	133
K23	1	1/2"	10'	133
K24	1	1/2"	10'	133
K25	1	1/2"	10'	133
K26	1	1/2"	10'	133
K27	1	1/2"	10'	133
K28	1	1/2"	10'	133
K29	1	1/2"	10'	133
K30	1	1/2"	10'	133
K31	1	1/2"	10'	133
K32	1	1/2"	10'	133
K33	1	1/2"	10'	133
K34	1	1/2"	10'	133
K35	1	1/2"	10'	133
K36	1	1/2"	10'	133
K37	1	1/2"	10'	133
K38	1	1/2"	10'	133
K39	1	1/2"	10'	133
K40	1	1/2"	10'	133
K41	1	1/2"	10'	133
K42	1	1/2"	10'	133
K43	1	1/2"	10'	133
K44	1	1/2"	10'	133
K45	1	1/2"	10'	133
K46	1	1/2"	10'	133
K47	1	1/2"	10'	133
K48	1	1/2"	10'	133
K49	1	1/2"	10'	133
K50	1	1/2"	10'	133
K51	1	1/2"	10'	133
K52	1	1/2"	10'	133
K53	1	1/2"	10'	133
K54	1	1/2"	10'	133
K55	1	1/2"	10'	133
K56	1	1/2"	10'	133
K57	1	1/2"	10'	133
K58	1	1/2"	10'	133
K59	1	1/2"	10'	133
K60	1	1/2"	10'	133
K61	1	1/2"	10'	133
K62	1	1/2"	10'	133
K63	1	1/2"	10'	133
K64	1	1/2"	10'	133
K65	1	1/2"	10'	133
K66	1	1/2"	10'	133
K67	1	1/2"	10'	133
K68	1	1/2"	10'	133
K69	1	1/2"	10'	133
K70	1	1/2"	10'	133
K71	1	1/2"	10'	133
K72	1	1/2"	10'	133
K73	1	1/2"	10'	133
K74	1	1/2"	10'	133
K75	1	1/2"	10'	133
K76	1	1/2"	10'	133
K77	1	1/2"	10'	133
K78	1	1/2"	10'	133
K79	1	1/2"	10'	133
K80	1	1/2"	10'	133
K81	1	1/2"	10'	133
K82	1	1/2"	10'	133
K83	1	1/2"	10'	133
K84	1	1/2"	10'	133
K85	1	1/2"	10'	133
K86	1	1/2"	10'	133
K87	1	1/2"	10'	133
K88	1	1/2"	10'	133
K89	1	1/2"	10'	133
K90	1	1/2"	10'	133
K91	1	1/2"	10'	133
K92	1	1/2"	10'	133
K93	1	1/2"	10'	133
K94	1	1/2"	10'	133
K95	1	1/2"	10'	133
K96	1	1/2"	10'	133
K97	1	1/2"	10'	133
K98	1	1/2"	10'	133
K99	1	1/2"	10'	133
K100	1	1/2"	10'	133

GENERAL NOTES

All concrete to be Class "A". Bevel all exposed edges with a 3/4" triangular mallet. Torque and Groove Reinforced Concrete Pipe @ 3500 p.s.i. to be used thru-out. 19" x 44" x 1/2" steel plate covers to be used on curb inlets. 8 required.

Manhole Type "A" with Curb Inlets to be constructed 25' R.T. @ 13th St. @ Sta. 7+27. 24' x 27' 35' x 00' and 65' x 00'. Construct Manhole Type "A" existing Curb Inlets and Cross-Road Pipes 25' R.T. @ 13th St. @ Sta. 0+30, 12+81, 18+59, 29+39, 34+51, 39+79, 44+75, 49+88, 60+20, 69+00.

Construct Concrete and Brick Inlet with Grate and Cross-Road Pipe 30' L.F. @ Sta. 0+50. End Reinforced Concrete Pipe and construct Reinforced Concrete Outlet on 12" x 12" Timber Piling 30' R.T. @ Present 13th St. Bridge @ Sta. 14+50.

SEWER APPURTENANCES				
PREPARED BY SEDGWICK COUNTY ENGINEERING DEPT. RUFUS S. KIRK — COUNTY ENGINEER				
REVISED July 28, 1954 N.I.F.	SCALE Noted	DESIGNED PHEUNG	TRACED 4-6-50	CHECKED N.I.F.
SHEET NO. 4				TOTAL SHEETS 4