

PHASE I:

STORM WATER SEWER NO.403 PLANS FOR

SOUTH SENECA

FROM SOUTH LINE OF 48TH. STREET SOUTH TO
400' NORTH OF NORTH LINE OF MAC ARTHUR

C.I.P. PROJECT NO. D-109

CITY OF WICHITA, KANSAS
MICHAEL E. LINDEBAK, CITY ENGINEER

INDEX NO. 724039

468-81949

GENERAL NOTES

1. 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 IN ACCORDANCE WITH STATE LAWS.
2. TREES TO BE REMOVED ARE MARKED. ALL TREES WHICH IN THE OPINION OF THE FIELD ENGINEER CAN BE SAVED, SHALL BE SAVED.
3. ALL CONCRETE SHALL BE STANDARD PAVING MIX UNLESS OTHERWISE NOTED.
4. UNDERGROUND UTILITY SERVICE LINES AND OVERHEAD UTILITY POLE LINES ARE TO BE ADJUSTED AS NECESSARY BY OTHERS PRIOR TO CONSTRUCTION UNLESS THE PLANS SPECIFICALLY IDENTIFY A UTILITY TO BE ADJUSTED BY ITS OWNER DURING CONSTRUCTION. EXISTING UTILITIES AND THEIR LOCATIONS, AS SHOWN ON THE PLANS, REPRESENT THE BEST INFORMATION OBTAINABLE FOR DESIGN. LOCATION INFORMATION HAS BEEN OBTAINED FROM THE VARIOUS UTILITY COMPANIES AND IS EITHER FROM COMPANY RECORD DRAWINGS OR COMPANY PROVIDED FIELD LOCATIONS. THE CONTRACTOR WILL BE REQUIRED TO WORK AROUND EXISTING UTILITIES WITHIN THE RIGHT OF WAY WHICH DO NOT CONFLICT WITH PROPOSED CONSTRUCTION.

NOTE: NOTIFY ALL THE FOLLOWING COMPANIES PRIOR TO ANY EXCAVATION:

KANSAS ONE-CALL	1-800-344-7233
ARKLA GAS COMPANY	316-942-8350
CONOCO PIPE LINE CO (JERRY BOYD)	316-681-2081 316-775-7533
GETTY GAS GATHERING INC. (WANTS TO BE ON-SITE)	316-264-1141
KANSAS GAS & ELECTRIC	316-263-7511
KPL GAS SERVICE	316-262-0661
MULTIMEDIA CABLEVISION OXY HSL (USA), INC. (BOB RENOLLETT)	316-662-6691 EXT 141
SOUTHWESTERN BELL TELEPHONE	316-571-2115
CITY OF WICHITA WATER & SEWER	316-268-4908
WILLIAMS NATURAL GAS CO.	316-524-0491 OR 316-524-4350

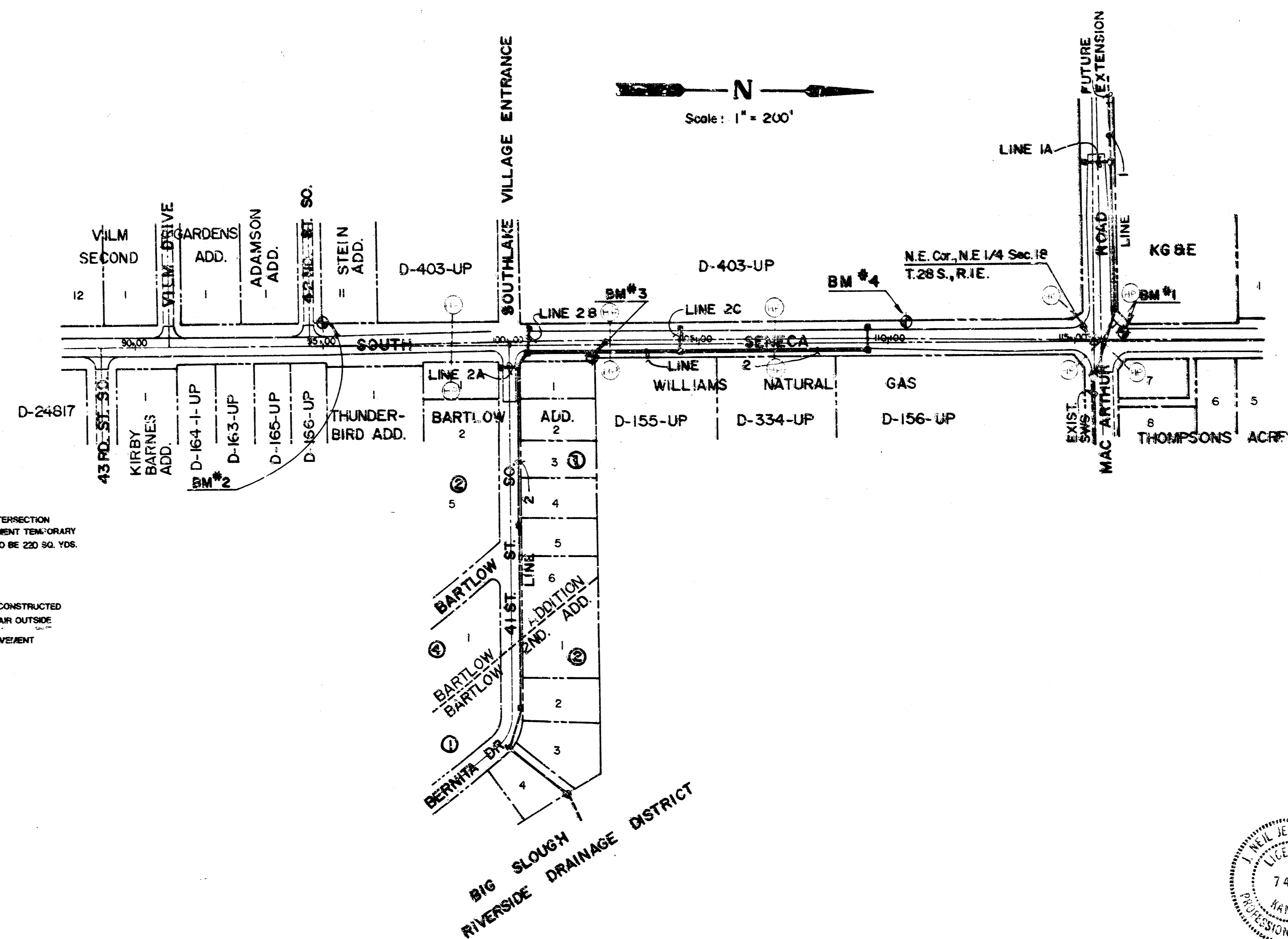
5. THE CONTRACTOR SHALL USE FLOWABLE FILL IN PLACE OF COMPACTED PIPE BEDDING MATERIAL TYPE 3 AT SIDES AND ABOVE ALL STORM SEWER LINES RUNNING UNDER PAVEMENT IN PUBLIC RIGHT OF WAY. A MINIMUM OF 12 INCHES OF FLOWABLE FILL SHALL BE PLACED OVER THE STORM SEWER LINE OR UP TO 2 FEET BELOW BOTTOM OF PAVEMENT (USE HIGHER ELEVATION).
6. CITY OF WICHITA MANAGER'S POLICY: ANY AREA DISTURBED BY CONSTRUCTION SHALL BE COMPLETELY RESTORED TO A CONDITION EQUAL TO OR BETTER THAN THE ORIGINAL CONDITION. THIS APPLIES TO CONSTRUCTION AREA ALONG RERMITA DRIVE AND 41ST STREET SOUTH, EAST OF EAST LINE OF SENECA.
7. THE CONTRACTOR SHALL START WORK IN THE SOUTHEAST QUADRANT OF THE SOUTH SENECA AND MACARTHUR ROAD INTERSECTION IMMEDIATELY AFTER KPL GAS LINES AND CITY OF WICHITA WATER MAIN HAVE BEEN RELOCATED.
8. THE CONTRACTOR SHALL NEXT WORK IN THE NORTHWEST QUADRANT OF THE SOUTH SENECA AND MACARTHUR INTERSECTION AFTER KPL GAS LINES HAVE BEEN RELOCATED.
9. AFTER LINE 1 HAS BEEN COMPLETED AND THE UTILITIES ALONG 41ST STREET SOUTH HAVE BEEN RELOCATED, THE CONTRACTOR SHALL BEGIN LINE 2. THE PRESENT SOUTH SENECA ASPHALT MAY BE 30 FEET WIDE. WHERE LINE 2 RUNS ALONG THE EAST SIDE OF SOUTH SENECA, A MINIMUM OF 30 FEET OF ASPHALT (ONE LANE - NORTH BOUND AND ONE LANE - SOUTH BOUND) SHALL REMAIN AFTER CONSTRUCTION OF LINE 2 OR BE REPLACED BY THE CONTRACTOR TO A MINIMUM WIDTH OF 20 FEET AND ASPHALT DEPTH OF 4 INCHES. THE THREE INLETS ALONG THE EAST SIDE OF SOUTH SENECA SHALL HAVE THE TOPS TURNED BACKWARDS AND SET AT AN ELEVATION TO MATCH THE EAST EDGE OF ASPHALT. FILL SHALL BE PLACED AROUND INLETS, SO THAT NORTH BOUND TRAFFIC MAY RUN ACROSS THE INLET TOP. ALL OTHER INLET TOPS SHALL BE TURNED BACKWARDS AND THE 5-FT OR THE 10-FT OPENING BRICKED SHUT.
10. THE CONTRACTOR SHALL PROVIDE TEMPORARY DITCH DRAINAGE INTO THE STORM SEWER SYSTEMS, AT ALL INLETS, EXCEPT WHERE RCP LINES ARE STUBBED OUT AND NOT PLUGGED, EITHER BY LEAVING ONE BRICK SIZE HOLES IN THE INLETS AT THE DITCH FLOWLINE OR BY STUBBING OUT 1 FOOT LONG 6 INCH PVC SECTIONS AT THE DITCH FLOWLINE.
11. CONTRACTOR WILL BE REQUIRED TO INSTALL TEMPORARY ASPHALT PAVEMENT REPAIR FOR THE UTILITY EXCAVATION CUTS MADE IN THE INTERSECTION OF MACARTHUR AND SENECA TO ADJUST UTILITIES TO CLEAR THE PROPOSED STORM SEWER CONSTRUCTION IN ADDITION TO THE PAVEMENT TEMPORARY REPAIR TO FACILITATE THE STORM SEWER CONSTRUCTION. THE AMOUNT OF PAVEMENT REPAIR TO REPAIR UTILITY CUTS IS ESTIMATED TO BE 220 SQ. YDS. IN ADDITION TO THAT REQUIRED BECAUSE OF STORM SEWER CONSTRUCTION.
12. TEMPORARY REPAIR OF PAVEMENT AND DRIVEWAYS WITHIN THE RIGHT-OF-WAY OF SENECA ST. SHALL BE 4" BITUMINOUS BASE PAVEMENT CONSTRUCTED IN CONFORMANCE WITH THE REQUIREMENTS OF THE STANDARD SPECIFICATIONS FOR ASPHALT PAVEMENT CONSTRUCTION. PAVEMENT REPAIR OUTSIDE THE LIMITS OF SENECA ST. RIGHT-OF-WAY SHALL BE PERMANENT REPAIRS USING 6" CONCRETE PAVEMENT OR 6" ASPHALTIC CONCRETE PAVEMENT (4" BITUMINOUS BASE) AT LOCATIONS SPECIFIED BY THE PLANS.

BENCH MARKS

- BM #1 C.O.M. Bench Mark Disc, 86' north and 28.5' west of section corner at the intersection of South Seneca and MacArthur Road. Elev. 90.370
- BM #2 Step nail in power pole at the northwest corner of the intersection of South Seneca and 42nd Street South. Elev. 89.83
- BM #3 Step nail in power pole along the east side of South Seneca at the South property line of Williams Natural Gas Company. Elev. 90.75
- BM #4 Step nail in 3rd pole south of MacArthur Road along the west side of South Seneca. Elev. 93.40

INDEX TO DRAWINGS

SHEET NO.	DESCRIPTION
1	TITLE SHEET
1A	DRAINAGE PLAN
2	PLAN & PROFILE-LINE 1
3	PLAN & PROFILE-LINE 1 & 1A
4-5	PLAN & PROFILE-LINE 2
6	PLAN & PROFILE-LINE 2, 2A, 2B
7	PLAN & PROFILE-LINE 2 & 2C
8	PLAN & PROFILE-LINE 2
9	STANDARD TYPE 1 CURB INLET (5' OPENING)
10	STANDARD TYPE 1 CURB INLET (10' OPENING)
11	STANDARD TYPE 1A CURB INLET (10' OPENING)
12	REINFORCED CONCRETE MANHOLE DETAILS

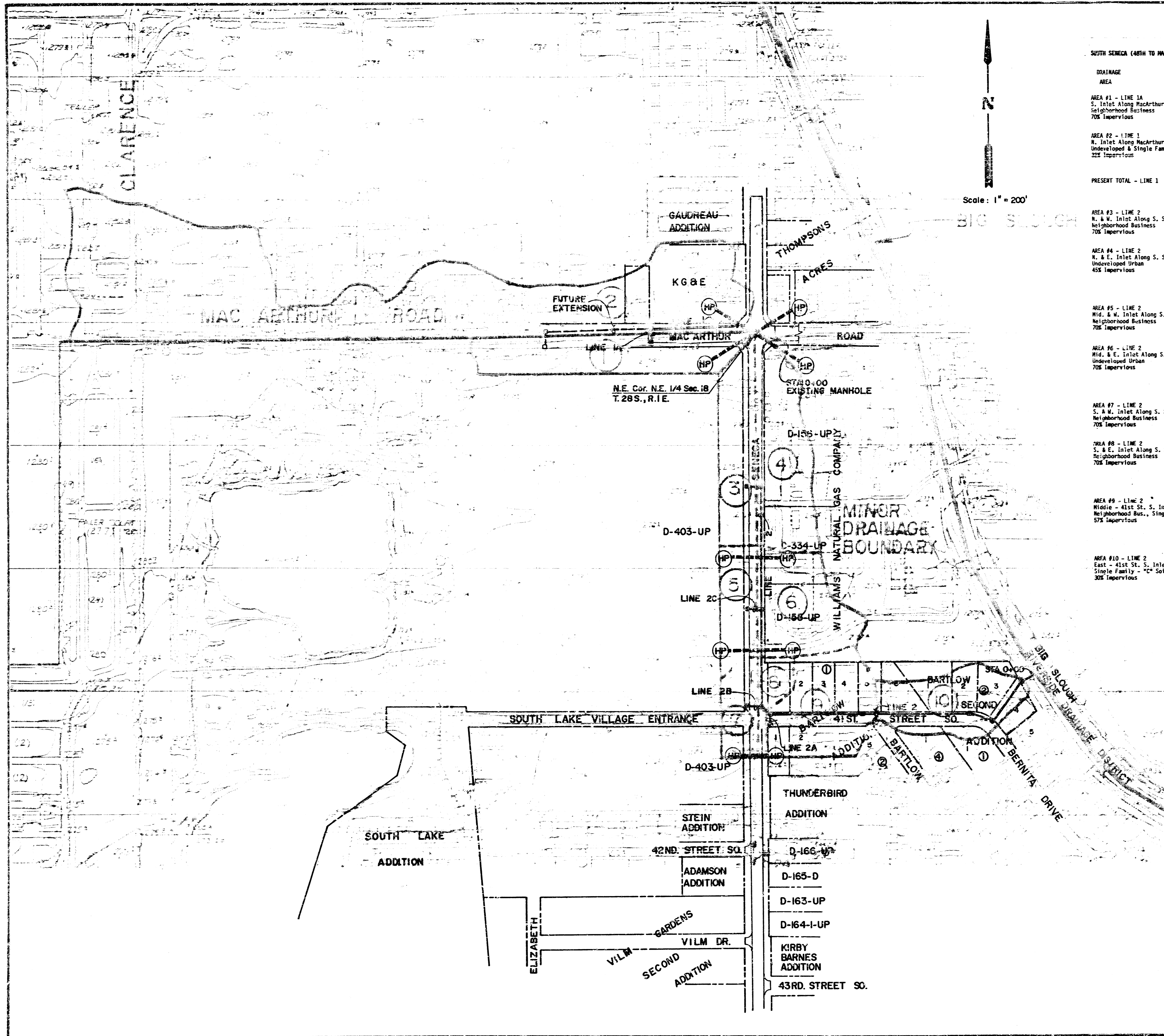


Booked
12/91
MCA

REVISED JUNE 27, 1991 JNL - GENERAL NOTES #9 & #11, AND INDEX
REVISED MAY 21, 1991 JNL

	SOUTH SENECA IMPROVEMENTS STORM WATER SEWER #403 48TH. ST. SO. TO MACARTHUR	Design: JNL Drawn by: DLM Checked by: Date: 5/21/91 Scale:
	MID-KANSAS ENGINEERING CONSULTANTS PA 3300 NORTH ROCK ROAD BUILDING #800 WICHITA, KANSAS 67226 636-5566	Sheet 1 of 12

MKEC Project No. 89-34-113-D



SOUTH SENECA (48TH TO MACARTHUR) - S.W.S. No. 403 - C.O.W. Project No. 468-82036

DRAINAGE AREA	AREA ACRES	AREA ACCOM.	C _s	C ₁₀₀	T _c (MIN)	T _s (IN/HR)	100 (IN/HR)	Q _s (CFS)	100 (CFS)	PIPE SIZE	PIPE SLOPE	INLETS	
AREA #1 - LINE 1A S. Inlet Along MacArthur Neighborhood Business 70% Impervious	3.95		0.69	0.80	20	15	4.00	7.37	10.9	24" RCP	0.24%	1 L(1) - 10' + 16" ACP	
AREA #2 - LINE 1 N. Inlet Along MacArthur Undeveloped & Single Family 32% Impervious	21.51		0.47	0.65	32	23	2.10	6.13	31.3	85.7	--	1 L(1) - 10' + 29" x 48" (36" RCP)	
PRESNET TOTAL - LINE 1	25.46		0.50	0.67	32	23	3.10	6.13	39.5	104.6 (34" x 48" RCP)	0.16%	--	
* TOTAL DRAINAGE AREA TO BE REDUCED WITH PROPOSED FUTURE STORM SEWER TO BIG SLOUGH ALONG ENTRANCE TO MOBILE HOME PARK & WEST PAYING OF MACARTHUR ROAD.													
AREA #3 - LINE 2 N. & W. Inlet Along S. Seneca Neighborhood Business 70% Impervious	2.85		0.69	0.80	23	17	3.73	7.00	7.3	16.0	24" RCP	0.25%	1 L(1) - 10'
AREA #4 - LINE 2 N. & E. Inlet Along S. Seneca Undeveloped Urban 65% Impervious	4.29		0.54	0.68	31	23	3.19	6.13	7.4	17.9	--	1 L(1) - 10'	
	7.14		0.60	0.73	31	23	3.19	6.13	13.7	32.0	30" RCP	0.16%	--
AREA #5 - LINE 2 Mid. & W. Inlet Along S. Seneca Neighborhood Business 70% Impervious	1.75		0.69	0.80	16	15	4.43	7.37	5.3	10.3	24" RCP	0.25%	1 L(1) - 10'
AREA #6 - LINE 2 Mid. & E. Inlet Along S. Seneca Undeveloped Urban 70% Impervious	3.66		0.54	0.68	23	17	3.73	7.00	7.4	17.4	--	1 L(1) - 10'	
	12.55		0.60	0.72	32	24	3.10	6.01	23.3	54.3	36" RCP	0.12%	--
AREA #7 - LINE 2 S. & W. Inlet Along S. Seneca Neighborhood Business 70% Impervious	1.37		0.69	0.80	15	15	4.56	7.37	4.3	8.1	24" RCP	0.25%	1 L(1) - 10'
AREA #8 - LINE 2 S. & E. Inlet Along S. Seneca Neighborhood Business 70% Impervious	0.87		0.69	0.80	15	15	4.56	7.37	2.7	5.1	--	1 L(1) - 10'	
	14.79		0.61	0.74	33	25	3.05	5.90	27.5	64.6	48" RCP	0.22%	--
AREA #9 - LINE 2 Middle - 41st St. S. Inlet Neighborhood Bus., Single Fam. 57% Impervious	3.92		0.61	0.75	32	24	3.05	6.01	7.3	17.7	--	2 L(1) - 3'	
	18.71		0.61	0.74	34	25	3.01	5.90	34.4	81.7	48" RCP	0.32%	--
AREA #10 - LINE 2 East - 41st St. S. Inlet Single Family - "C" Soils 30% Impervious	3.44		0.46	0.55	41	29	2.72	5.49	4.3	12.3	--	1 L(1) - 10'	
	22.15		0.59	0.72	41	29	2.72	5.49	35.5	87.6	48" RCP	0.30%	--

Scale: 1" = 200'

PHASE I - NORTH 1/4 MILE & MACARTHUR ROAD

**SOUTH SENECA
DRAINAGE PLAN
48TH. STREET SOUTH
TO MACARTHUR**

JNJ
DLM
JNJ
5 March 91

MKEC ENGINEERING CONSULTANTS PA
2000 W. 10th Street
Canton, OH 44705
636-5566

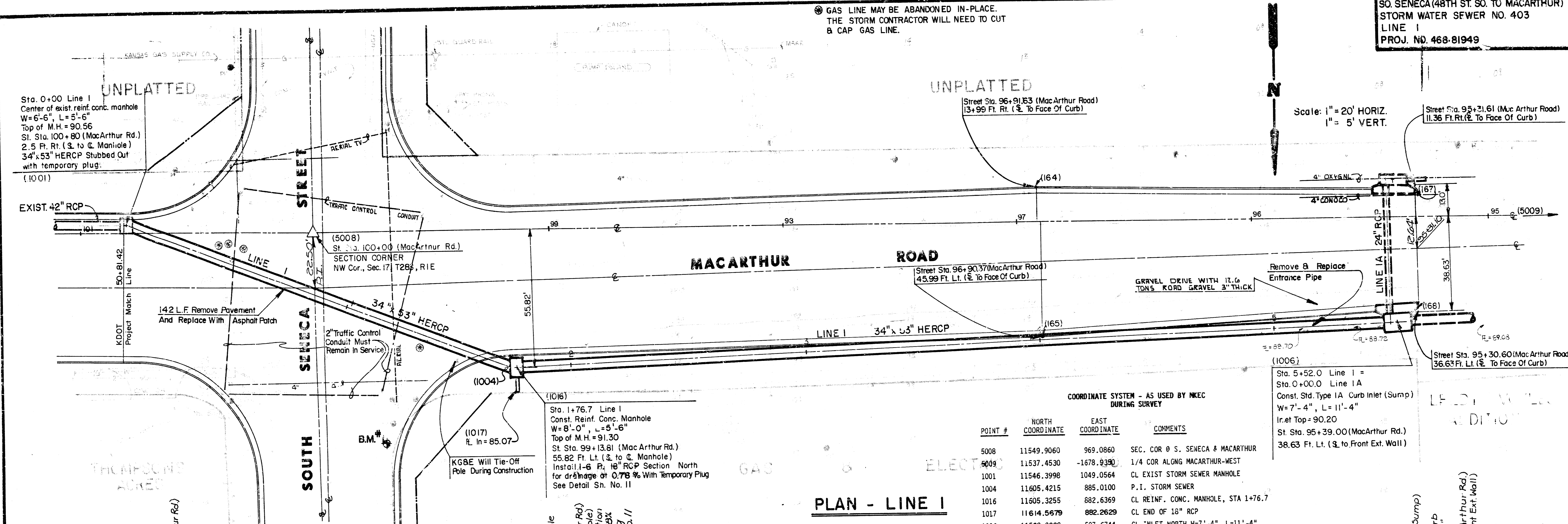
1A
11

MKEC Project No. 89-34-113-D

SO SENECA (48TH ST. SO. TO MACARTHUR)
STORM WATER SEWER NO. 403
LINE I
PROJ. NO. 468-81949

Scale: 1" = 20' HORIZ.
1" = 5' VERT.

⊗ GAS LINE MAY BE ABANDONED IN-PLACE.
THE STORM CONTRACTOR WILL NEED TO CUT
& CAP GAS LINE.



PLAN - LINE I

PROFILE - LINE I

COORDINATE SYSTEM - AS USED BY MKEC
DURING SURVEY

POINT #	NORTH COORDINATE	EAST COORDINATE	COMMENTS
5008	11549.9060	969.0860	SEC. COR @ S. SENECA & MACARTHUR
5009	11537.4530	-1678.9390	1/4 COR ALONG MACARTHUR-WEST
1001	11546.3998	1049.0564	CL EXIST STORM SEWER MANHOLE
1004	11605.4215	885.0100	P.I. STORM SEWER
1016	11605.3255	882.6369	CL REINF. CONC. MANHOLE, STA 1+76.7
1017	11614.5679	882.2629	CL END OF 18" RCP
1006	11590.0228	507.6744	CL INLET-NORTH W=7'-4", L=11'-4"
1012	11532.5788	509.2093	CL INLET-SOUTH W=4'-4", L=11'-4"
167	11536.3452	500.7531	SOUTH FACE OF CURB LINE
164	11534.4626	660.7861	SOUTH FACE OF CURB LINE
168	11584.3293	499.5179	NORTH FACE OF CURB LINE
165	11594.4428	659.2422	NORTH FACE OF CURB LINE
1060	11535.9564	393.0819	TEMP. END STORM SEWER

CL = Center Line
CL Inlet - As Shown In Plan View
is Center Of Inlet Base

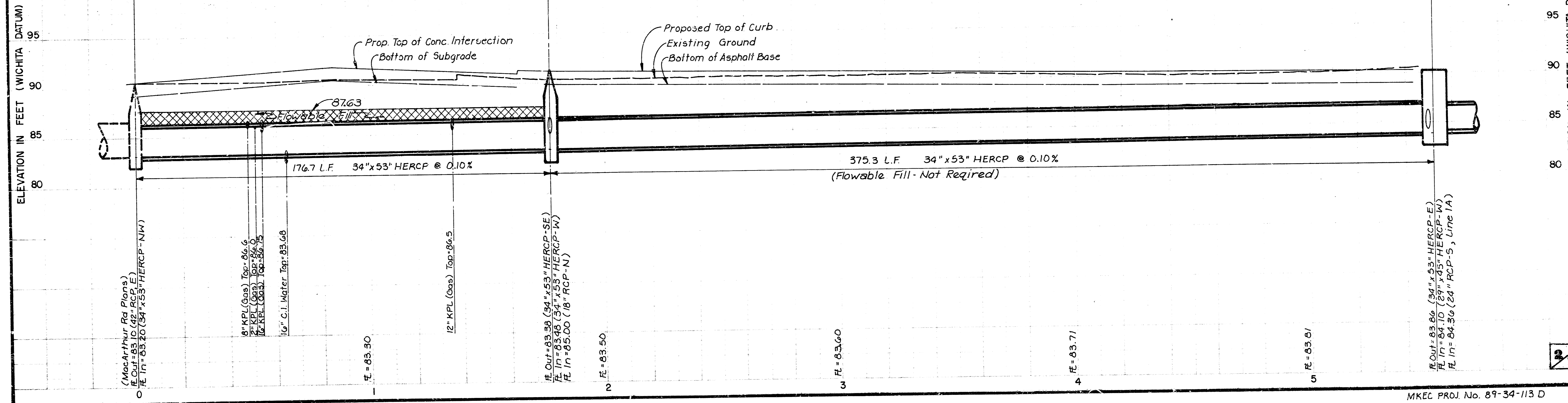
Sta. 0+00 Line I
Center of Exist. Reinf.
Conc. M.H. (By Others)
W=6'-6", L=5'-6"
Top of M.H.=90.56
St. Sta. 100+80 (MacArthur Rd.)
2.5 Ft. Rt. (S. to C. Manhole)
34"x53" HERCP Stubbed Out
w/ temp. plug

Sta. 1+76.7 Line I
Const. Reinf. Conc. Manhole
W=8'-0", L=5'-6"
Top of M.H.=91.30
St. Sta. 99+13.61 (MacArthur Rd.)
55.82 Ft. Lt. (S. to C. Manhole)
Install 1-6 P.I. 18" RCP Section North
for drainage of 0.78% With Temporary Plug
See Detail Sh. No. 11

Sta. 1+76.7 Line I
Const. Reinf. Conc. Manhole
W=8'-0", L=5'-6"
Top of M.H.=91.30
St. Sta. 99+13.61 (MacArthur Rd.)
55.82 Ft. Lt. (S. to C. Manhole)
Install 1-6 P.I. 18" RCP Section North
for drainage of 0.78%
With Temporary Plug
See Detail Sheet No. 11

Sta. 5+52.0 Line I =
Sta. 0+00.0 Line IA
Const. Std. Type IA Curb Inlet (Sump)
W=7'-4", L=11'-4"
Inlet Top=90.20
St. Sta. 95+30.00 (MacArthur Rd.)
36.63 Ft. Lt. (S. to Front Ext. Wall)

Sta. 5+52.0 Line I (Sump)
Sta. 0+00.0 Line IA
Const. Std. Type IA Curb
Inlet W=7'-4", L=11'-4"
Inlet Top=90.20
St. Sta. 95+30.00 (MacArthur Rd.)
36.63 Ft. Lt. (S. to Front Ext. Wall)

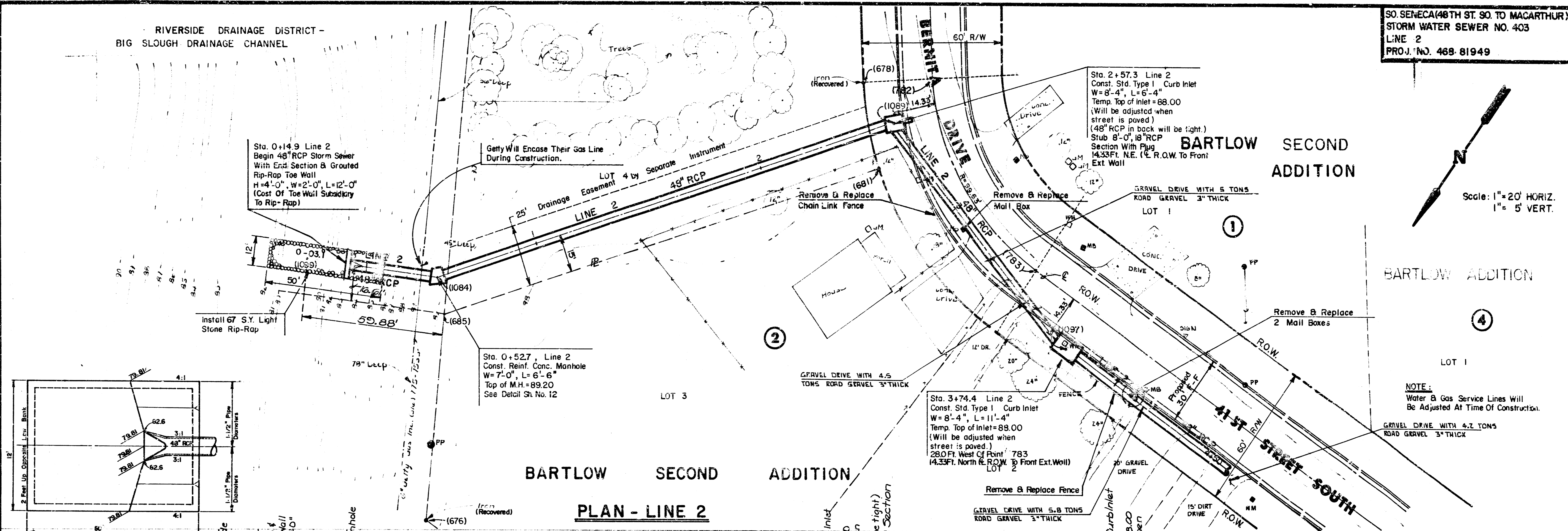
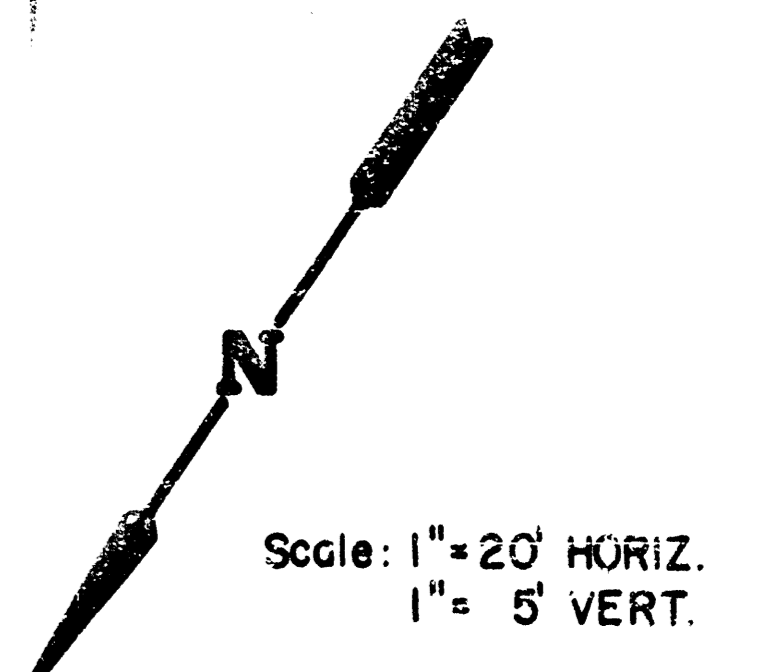


ELEVATION IN FEET (WICHITA DATUM)

LINE I (MACARTHUR RD.)

RIVERSIDE DRAINAGE DISTRICT -
BIG SLOUGH DRAINAGE CHANNEL

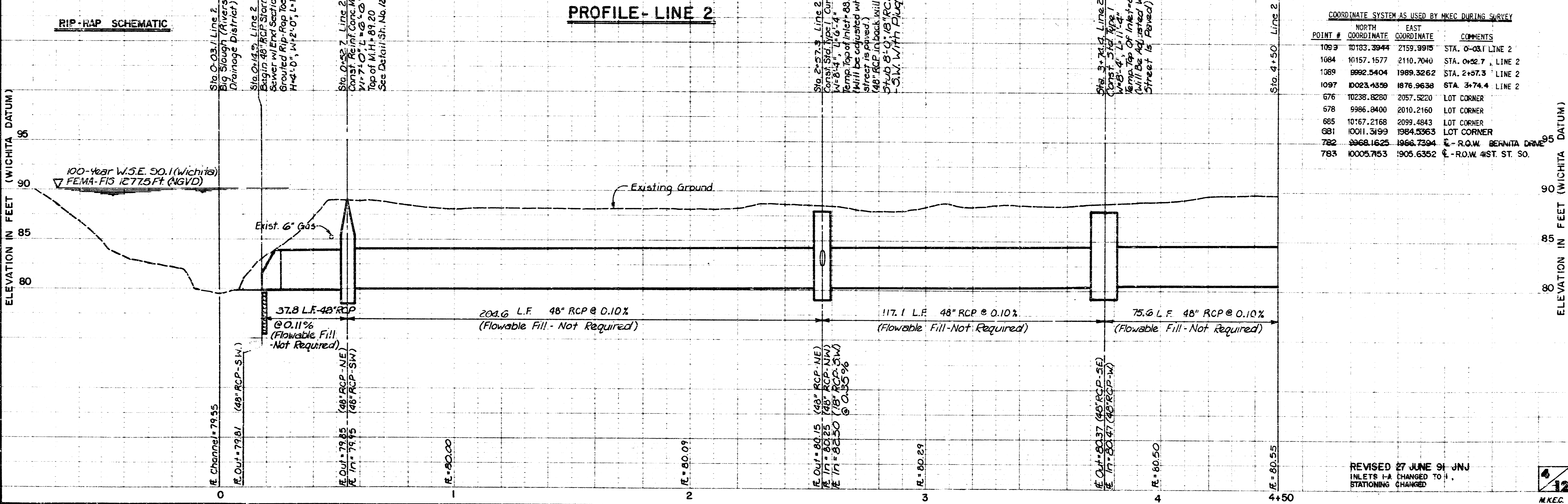
SO. SENECA (48TH ST. SO. TO MACARTHUR)
STORM WATER SEWER NO. 403
LINE 2
PROJ. NO. 468-81949



BARTLOW SECOND ADDITION

PLAN - LINE 2

PROFILE - LINE 2



RIP-RAP SCHEMATIC

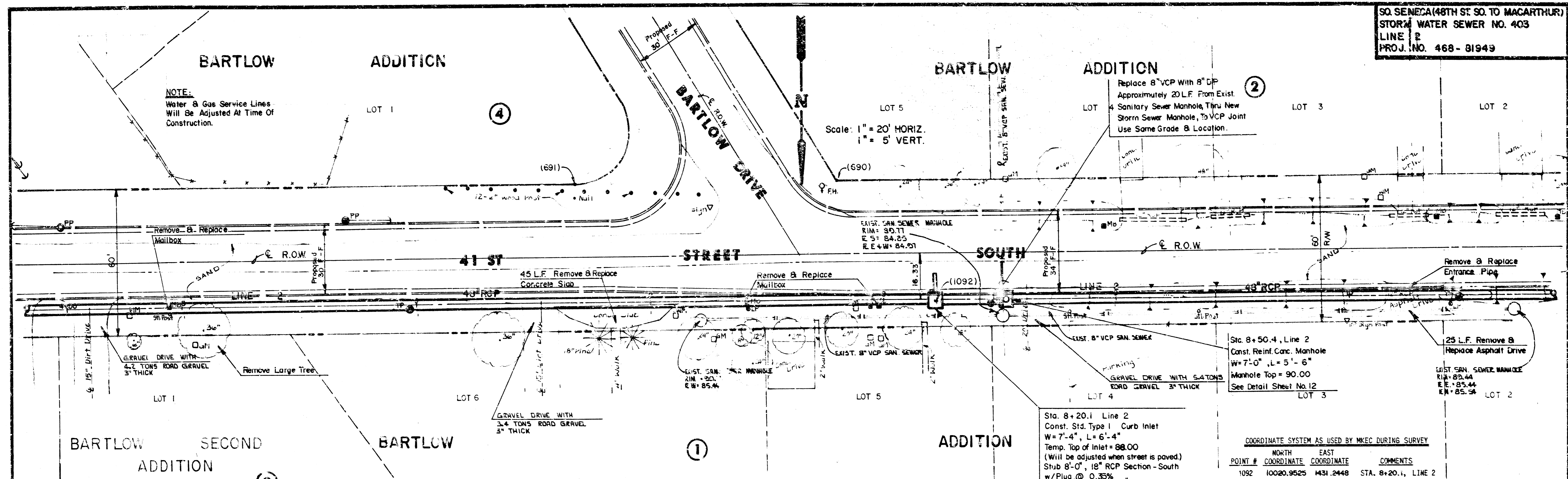
COORDINATE SYSTEM AS USED BY MKEC DURING SURVEY			
POINT #	NORTH COORDINATE	EAST COORDINATE	COMMENTS
1089	10183.3944	2159.9915	STA. 0+03.1 LINE 2
1084	10157.1577	2110.7040	STA. 0+52.7 LINE 2
1089	9992.5404	1989.3262	STA. 2+57.3 LINE 2
1097	10023.4359	1876.9638	STA. 3+74.4 LINE 2
676	10238.8280	2057.5220	LOT CORNER
678	9986.8400	2010.2160	LOT CORNER
685	10167.2168	2099.4843	LOT CORNER
681	10011.3199	1984.5363	LOT CORNER
782	9968.1625	1966.7394	E. R.O.W. SENECA DRIVE
783	10005.7553	1905.6352	E. R.O.W. 41ST. ST. SO.

REVISED 27 JUNE 91 JNJ
INLETS 1-A CHANGED TO 1
STATIONING CHANGED

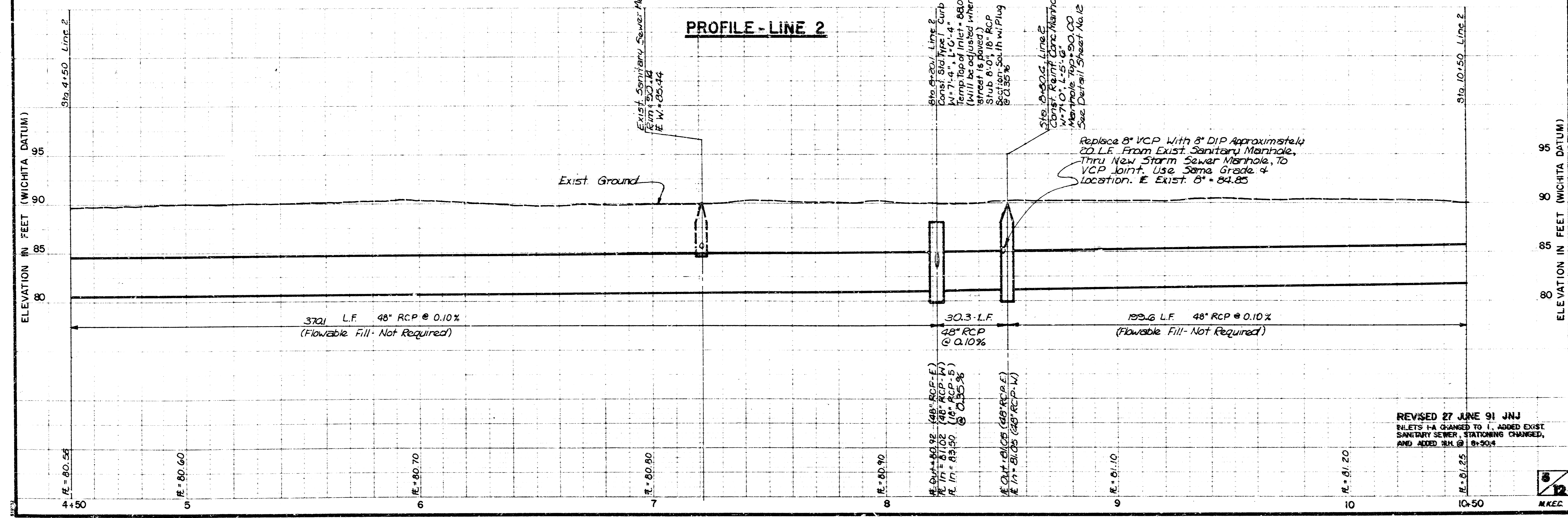


Line 2 (41 ST. SO.)

SO. SENECA (48TH ST. SO. TO MACARTHUR)
 STORM WATER SEWER NO. 403
 LINE 2
 PROJ. NO. 468-81949



PLAN - LINE 2



PROFILE - LINE 2

COORDINATE SYSTEM AS USED BY MKEC DURING SURVEY

POINT #	NORTH COORDINATE	EAST COORDINATE	COMMENTS
1092	10020.9525	1431.2448	STA. 8+20.1, LINE 2
690	9972.2443	1472.2018	LOT CORNER
691	9973.1375	1584.0397	LOT CORNER

Sta. 8+20.1 Line 2
 Const. Sid. Type 1
 W = 7'-4", L = 6'-4"
 Temp. Top of Inlet = 88.00
 (Will be adjusted when street is paved)
 Stub 8'-0", 18" RCP Section - South
 w/ Plug @ 0.35%
 415.17 Ft. E. of Point #1251
 18.5 Ft. No. E. R.O.W. To Front Ext. Wall

Replace 8" VCP With 8" DIP Approximately
 20 L.F. From Exist. Sanitary Manhole,
 Thru New Storm Sewer Manhole, To
 VCP Joint. Use Same Grade &
 Location. E. Exist. 8" = 84.85

REVISED 27 JUNE 91 JNJ
 INLETS HA CHANGED TO 1, ADDED EXIST.
 SANITARY SEWER, STATIONING CHANGED,
 AND ADDED 18\"/>

LINE 2 (41 ST ST. SO.)

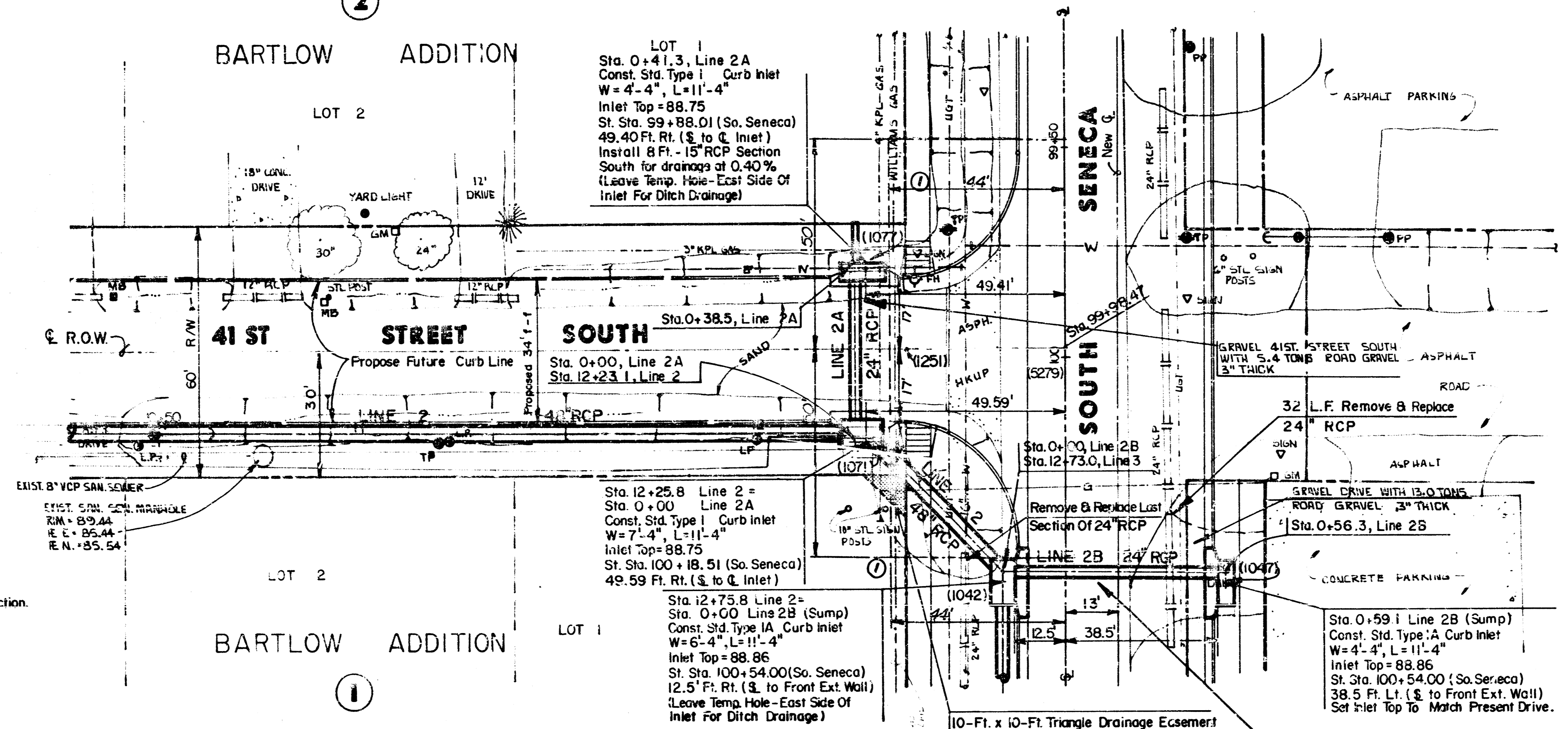
SO. SENECA (48TH ST. SQ. TO MACARTHUR)
 STORM WATER SEWER NO. 403
 LINE 2, LINE 2A, LINE 2B
 PROJ. NO. 468-81949

NOTE:
 ① AS PER DATA TO WILLIAMS NATURAL GAS ON 1, SEPTEMBER 1989, AT 41ST STREET SOUTH - EAST OF SOUTH SENECA FROM 50-FT. SOUTH TO 50-FT. NORTH OF 41ST STREET SOUTH:
 a) New 4" HIGH PRESSURE GAS LINE SHALL BE NO HIGHER THAN 80.0 FT. (WICHITA) 1267.40 FT. (NGVD), AND
 b) SHALL BE NO FURTHER EAST OF SECTION LINE THAN 44-FT.

NOTE:
 KPL & Water Lines Will Be Adjusted At Time Of Construction.

NOTE:
 Water & Gas Service Lines Will Be Adjusted At Time Of Construction.

PLAN - LINE 2, 2A & 2B



COORDINATE SYSTEM USED BY MKEC DURING SURVEY

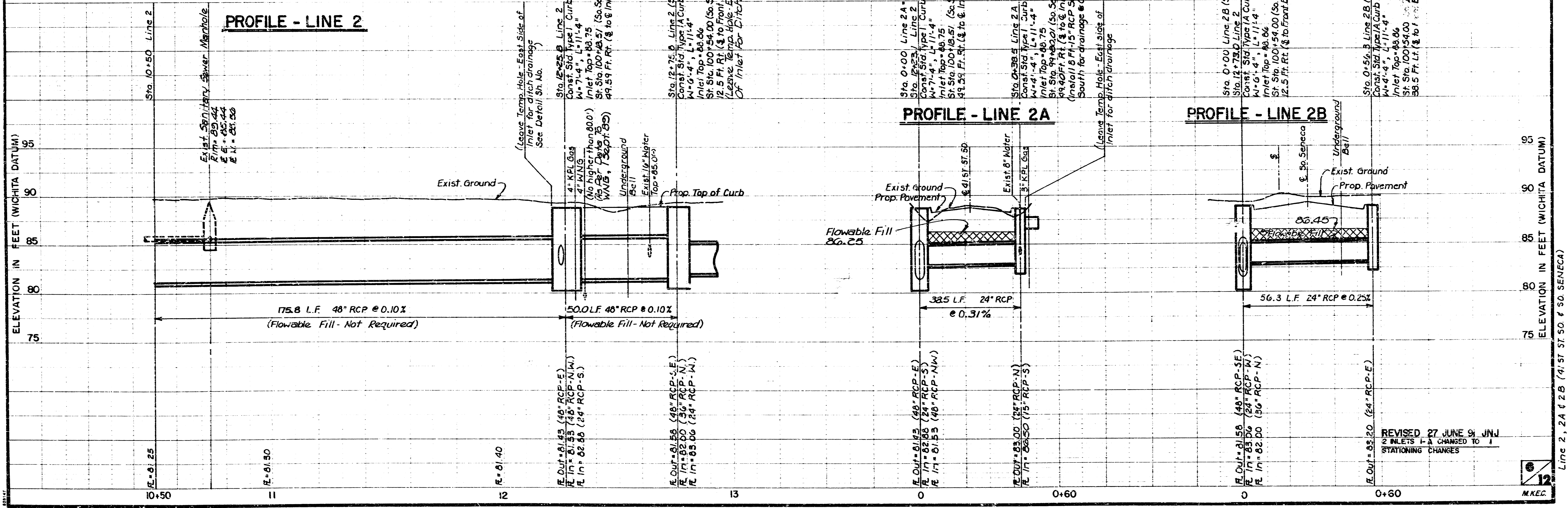
POINT #	NORTH COORDINATE	EAST COORDINATE	COMMENTS
1077	9980.1773	1025.5651	CL INLET, STA. 0+41.3, LINE 2-A
1071	10018.6787	1025.5845	CL INLET, STA. 12+25.8, LINE 2
1042	10053.9955	991.4978	CL INLET, STA. 12+75.8, LINE 2
1047	10053.7416	935.1650	CL INLET, STA. 0+59.1, LINE 2-B
5277	9899.9528	976.5255	SL @ STA. 99+00, SO. SENECA
5279	9899.9518	976.0746	SL @ STA. 100+00, SO. SENECA
5281	10099.9508	975.6237	SL @ STA. 101+00, SO. SENECA
1251	9998.6021	1016.0811	CL 41st St. Sq. @ 40-Ft. East of East ROW. of South Seneca

CL = Center Line
 SL = Section Line
 CL Inlet - As Shown in Plan View is Center of Inlet Base.

PROFILE - LINE 2

PROFILE - LINE 2A

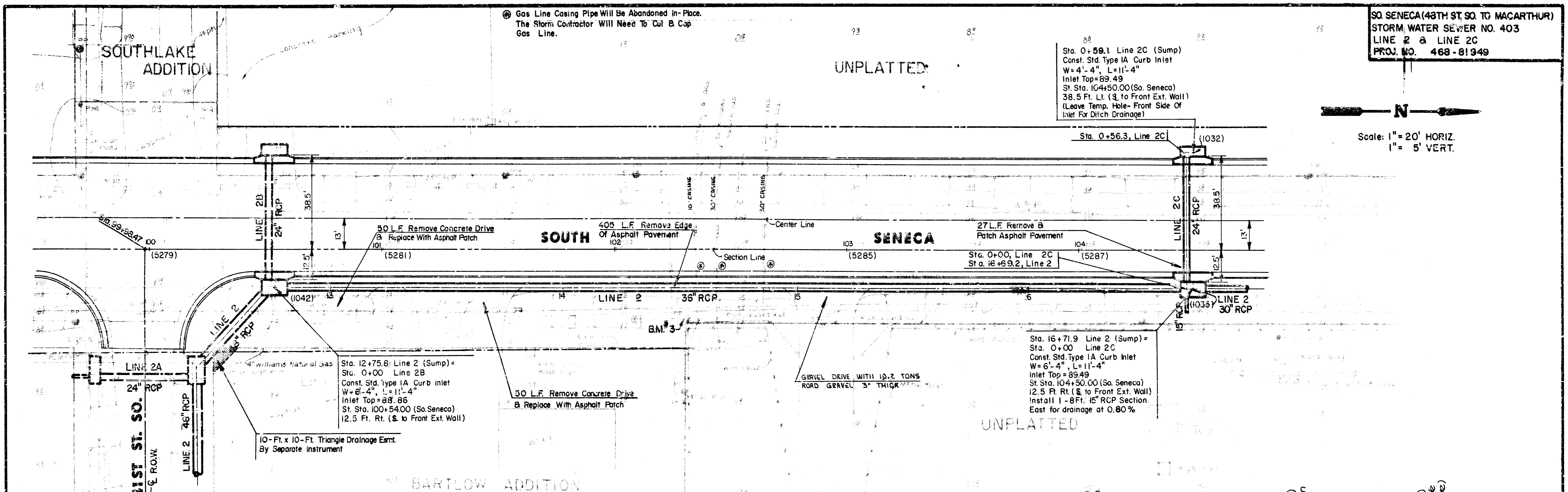
PROFILE - LINE 2B



REVISED 27 JUNE 91 JUN
 52 INLETS I-A CHANGED TO I
 STATIONING CHANGES

SO SENECA (43TH ST. TO MACARTHUR)
 STORM WATER SEWER NO. 403
 LINE 2 & LINE 2C
 PROJ. NO. 468-81349

Scale: 1" = 20' HORIZ.
 1" = 5' VERT.



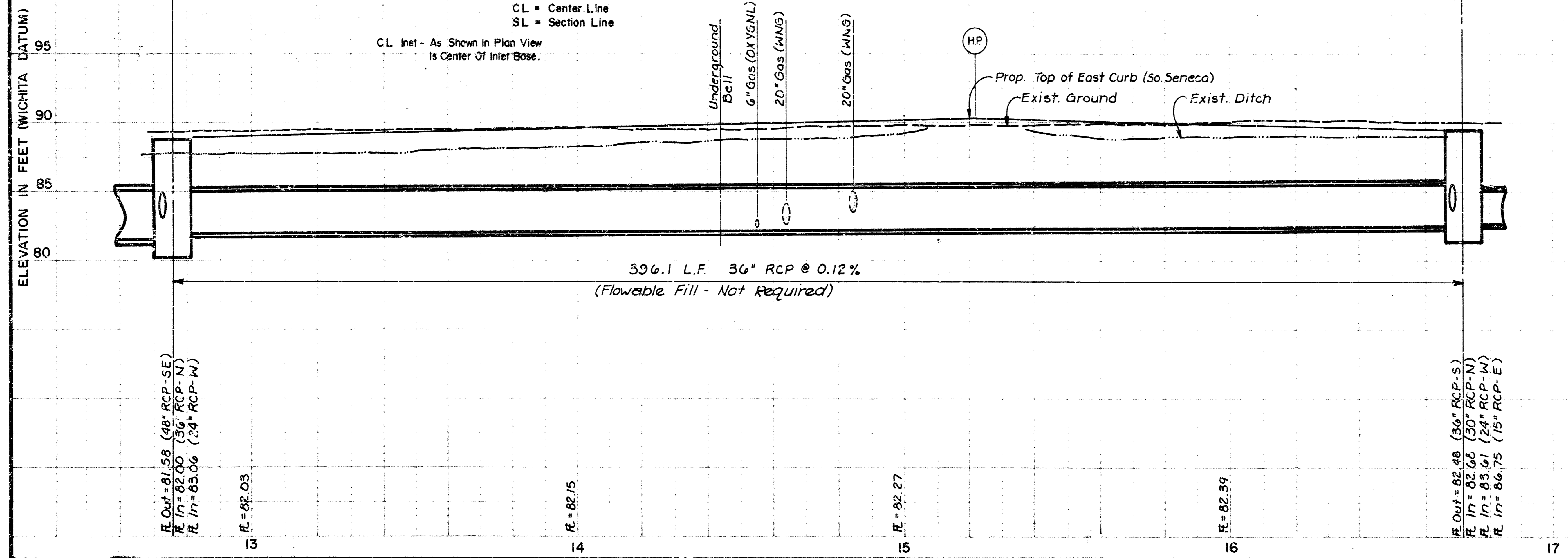
PLAN - LINE 2 & LINE 2C

PROFILE - LINE 2

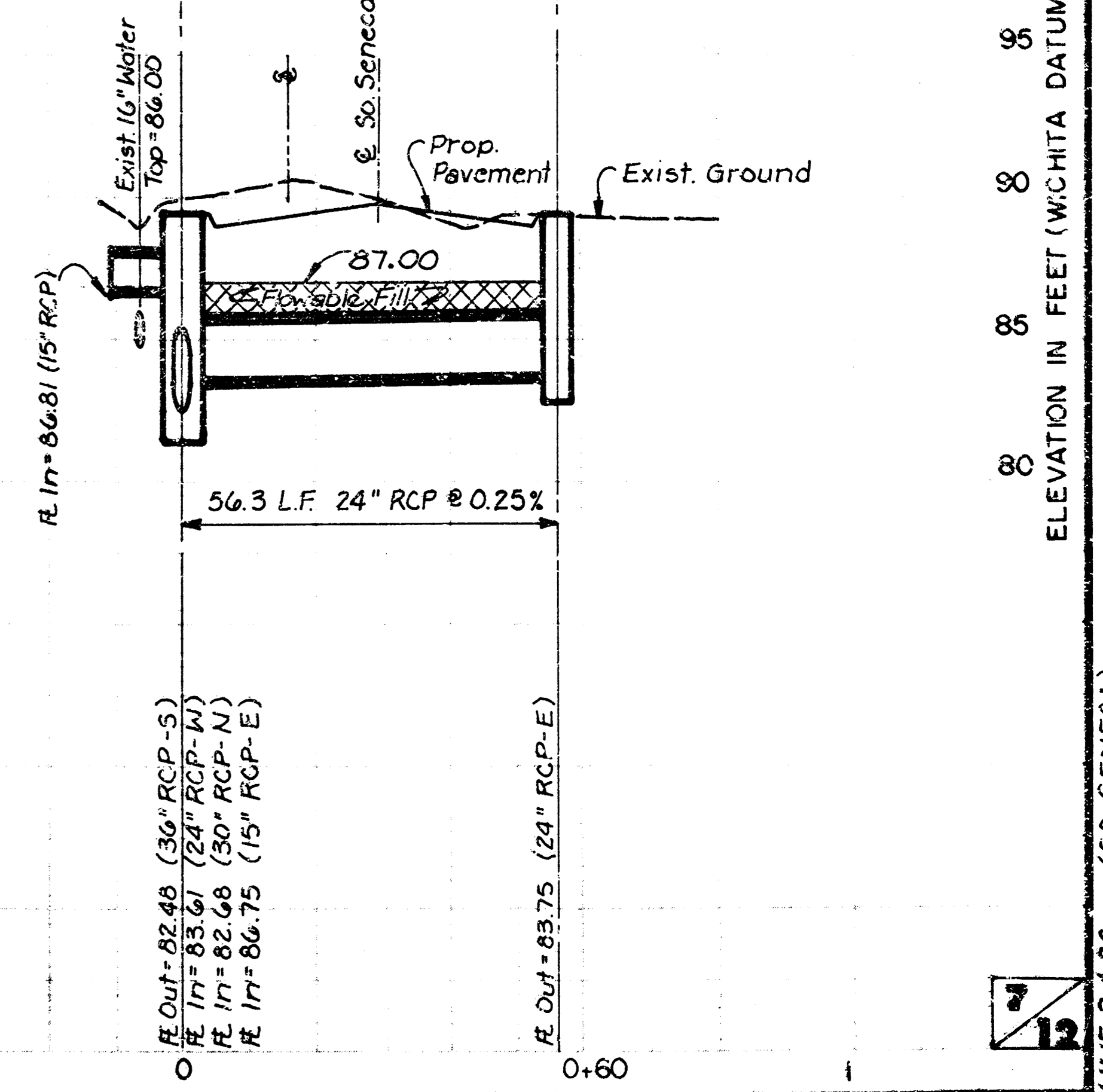
COORDINATE SYSTEM AS USED BY MKEC DURING SURVEY

POINT #	NORTH COORDINATE	EAST COORDINATE	COMMENTS
1032	10449.7638	933.3793	CL INLET, STA. 0+59.1, LINE 2-C
1035	10450.0179	989.7121	CL INLET, STA. 16+71.9, LINE 2
1042	10053.9956	991.4978	CL INLET, STA. 12+75.8, LINE 2
5279	9999.9518	976.0746	SL @ STA. 100+00, SO. SENECA
5281	10099.9508	975.6237	SL @ STA. 101+00, SO. SENECA
5285	10299.9487	974.7219	SL @ STA. 103+00, SO. SENECA
5287	10309.9477	974.2711	SL @ STA. 104+00, SO. SENECA

CL = Center Line
 SL = Section Line



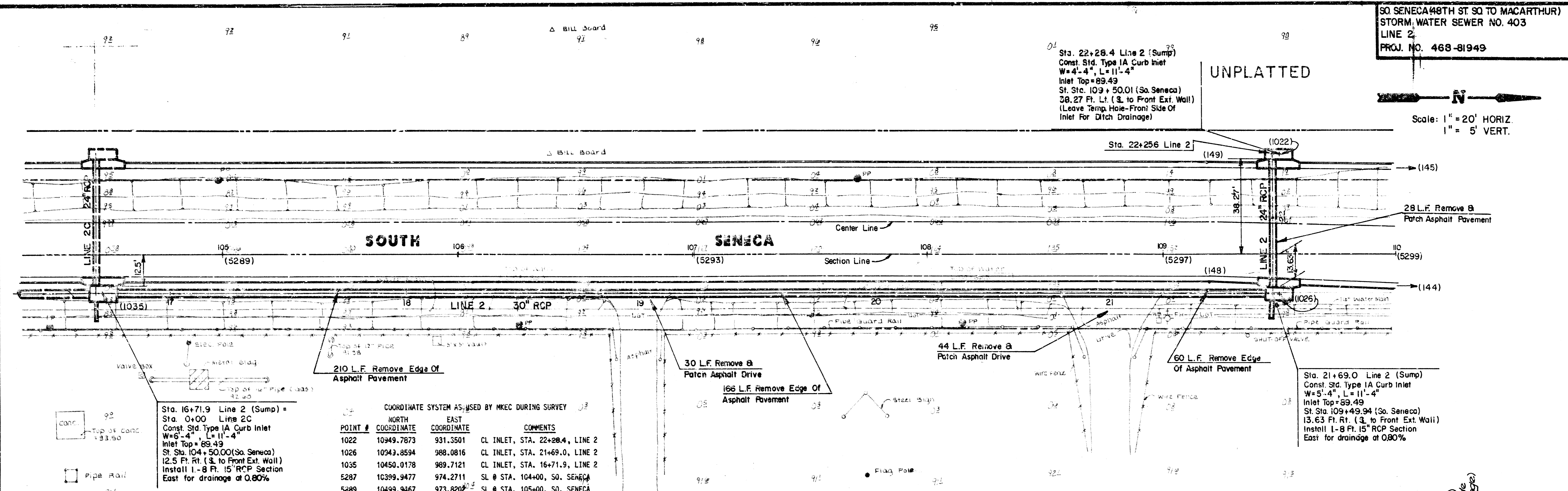
PROFILE - LINE 2C



SO SENECA 48TH ST SQ TO MACARTHUR)
 STORM WATER SEWER NO. 403
 LINE 2
 PROJ. NO. 468-81949

UNPLATTED

Scale: 1" = 20' HORIZ
 1" = 5' VERT.



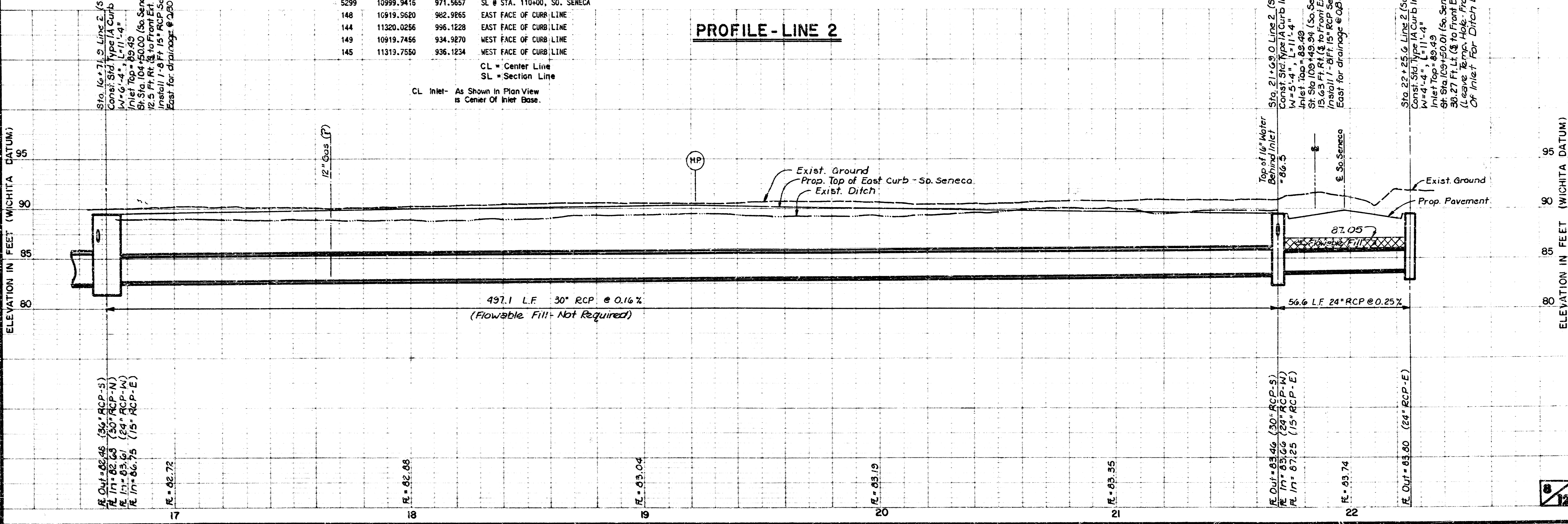
COORDINATE SYSTEM AS USED BY MKEC DURING SURVEY

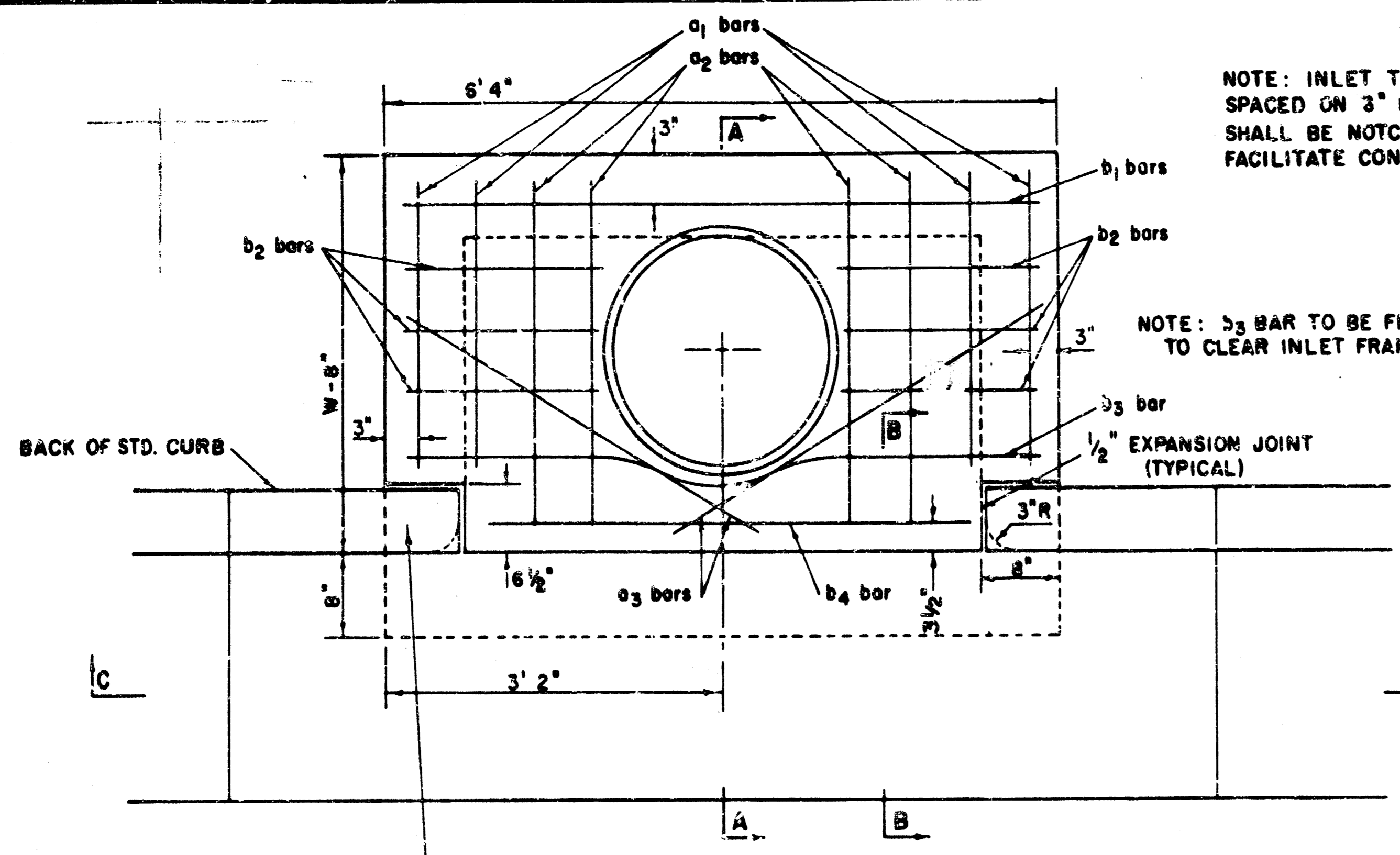
POINT #	NORTH COORDINATE	EAST COORDINATE	COMMENTS
1022	10949.7873	931.3501	CL INLET, STA. 22+28.4, LINE 2
1026	10943.8594	988.0816	CL INLET, STA. 21+69.0, LINE 2
1035	10450.0178	989.7121	CL INLET, STA. 16+71.9, LINE 2
5287	10399.9477	974.2711	SL @ STA. 104+00, SO. SENECA
5289	10499.9467	973.8202	SL @ STA. 105+00, SO. SENECA
5293	10699.9447	972.9184	SL @ STA. 107+00, SO. SENECA
5297	10899.9426	972.0166	SL @ STA. 109+00, SO. SENECA
5299	10999.9416	971.5657	SL @ STA. 110+00, SO. SENECA
148	10919.9680	982.9665	EAST FACE OF CURB LINE
144	11320.0256	996.1228	EAST FACE OF CURB LINE
149	10919.7456	934.9270	WEST FACE OF CURB LINE
145	11319.7550	936.1234	WEST FACE OF CURB LINE

CL = Center Line
 SL = Section Line
 CL Inlet - As Shown in Plan View is Center of Inlet Base.

PLAN - LINE 2

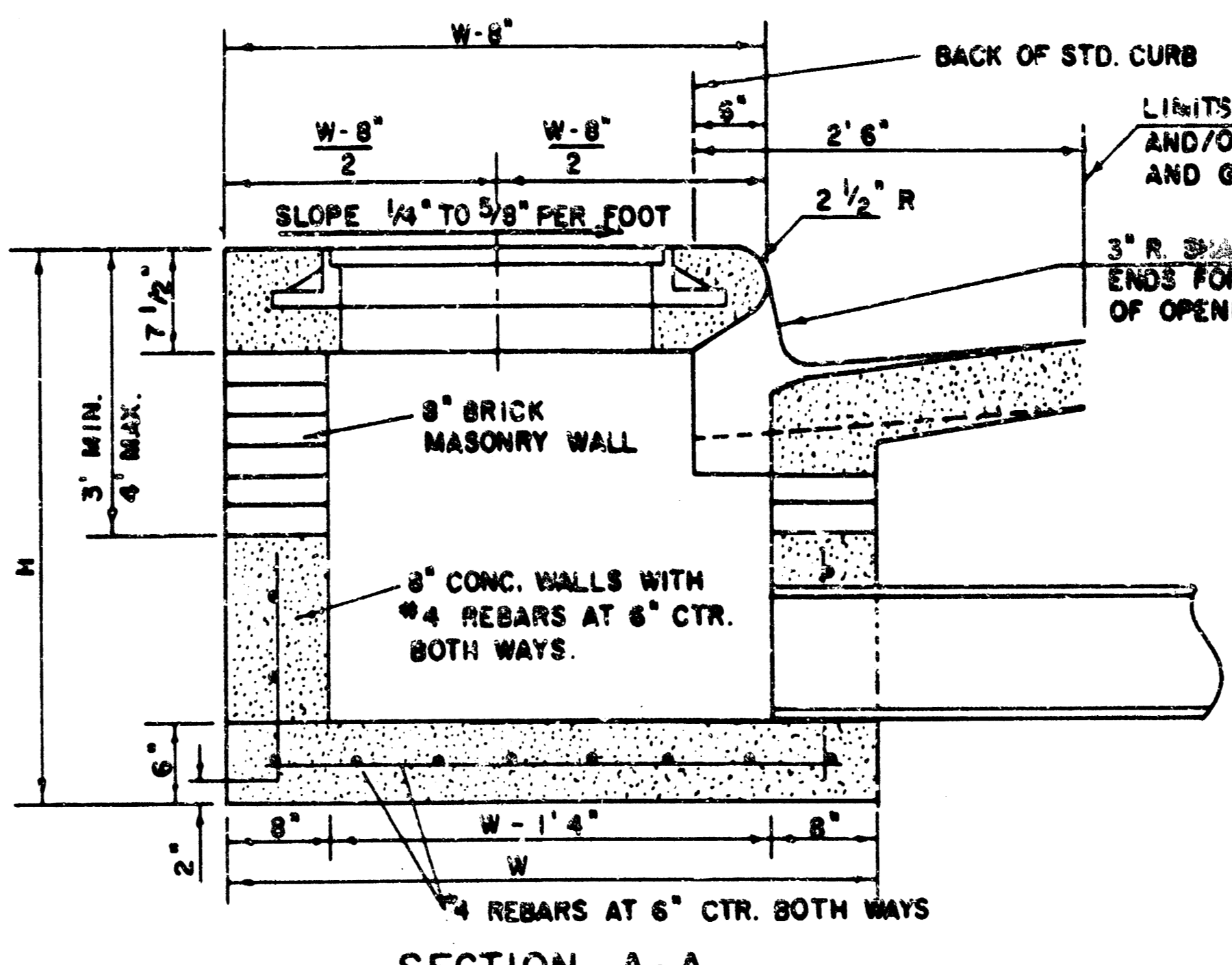
PROFILE - LINE 2



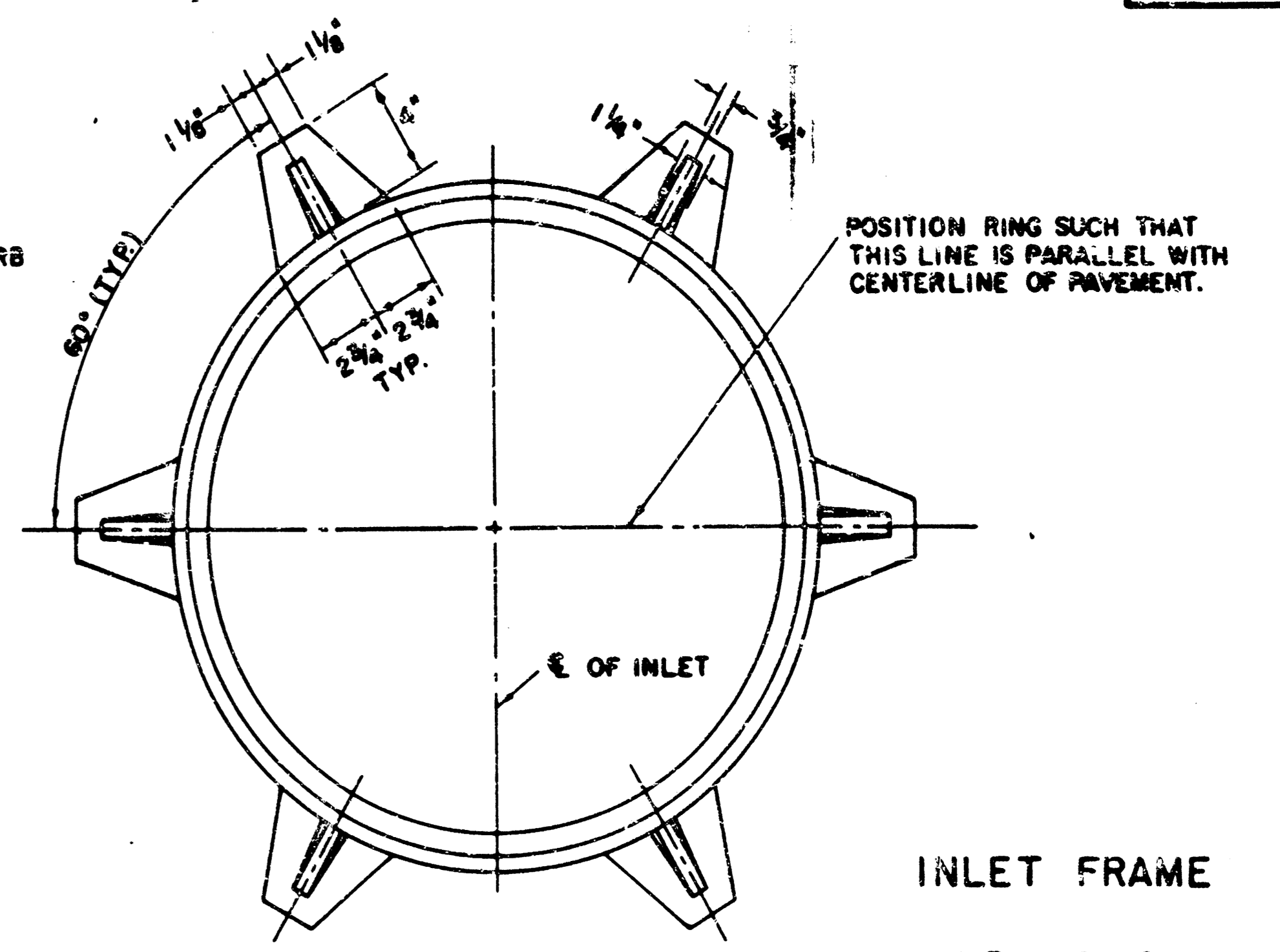


WARP CURB TO MATCH INLET TOP WITH 1' MIN. TRANSITION LENGTH

PLAN



SECTION A-A

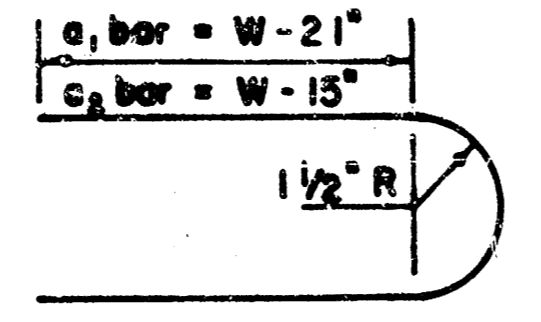


STEEL SCHEDULE

BAR NUMBER	a ₁	a ₂	a ₃	b				b ₂	b ₃	b ₄	WT. LBS.
SIZE	"4	"4	"4	"4	"4	"4	"4	"4	"4	"6	
W = 4'4"	5'7"	6'7"	4'0"	6'1"	-	-	-	1'9"	6'2"	4'8"	60 ±
W = 5'4"	7'7"	8'7"	5'0"	6'1"	-	-	-	1'9"	6'2"	4'8"	81 ±
W = 6'4"	9'7"	10'7"	6'0"	6'1"	-	-	-	1'9"	6'2"	4'8"	101 ±
W = 7'4"	11'7"	12'7"	7'0"	6'1"	-	-	-	1'9"	6'2"	4'8"	121 ±
W = 8'4"	13'7"	14'7"	8'0"	6'1"	1'9"	6'2"	4'8"	141 ±			

NOTE: a₃ BARS TO BE PLACED APPROX. 2" BELOW TOP OF INLET COVER.

STANDARD CURB INLET PRECAST TOPS			
W	PRE-CAST TOP SIZE	PIPE SIZE	CU. YD. CONC.
4'4"	5'8" 6'4" 7'0"	21" & SMALLER	0.38 ±
5'4"	6'8" 6'4" 7'0"	24" & 30"	0.51 ±
6'4"	8'8" 6'4" 7'0"	36" & 42"	0.84 ±
7'4"	9'8" 6'4" 7'0"	48" & 54"	0.77 ±
8'4"	11'8" 6'4" 7'0"	60" & 66"	0.90 ±



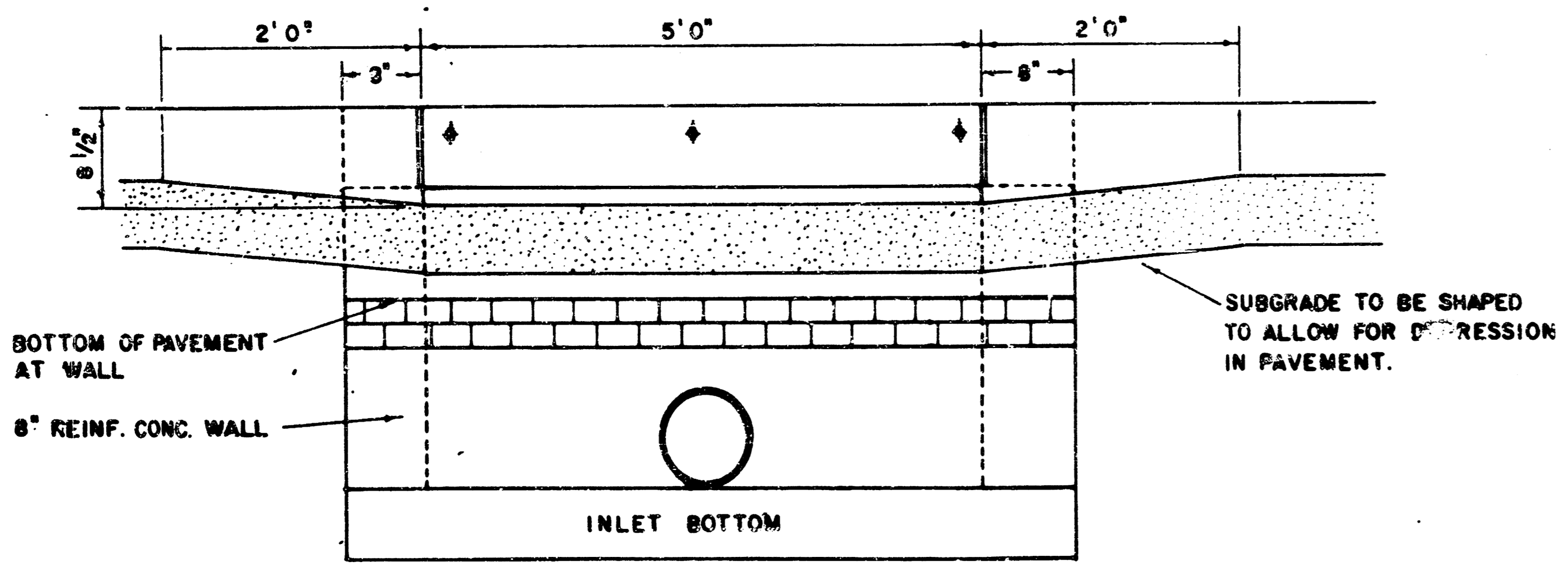
BENDING DIAGRAM

NOTE: CONTRACTOR SHALL HAVE THE OPTION OF CONSTRUCTING 8" BRICK MASONRY WALLS BETWEEN THE CONCRETE INLET BASE AND TOP ON THIS INLET WHEN W = 6'4" AND H = 7'0" OR LESS.

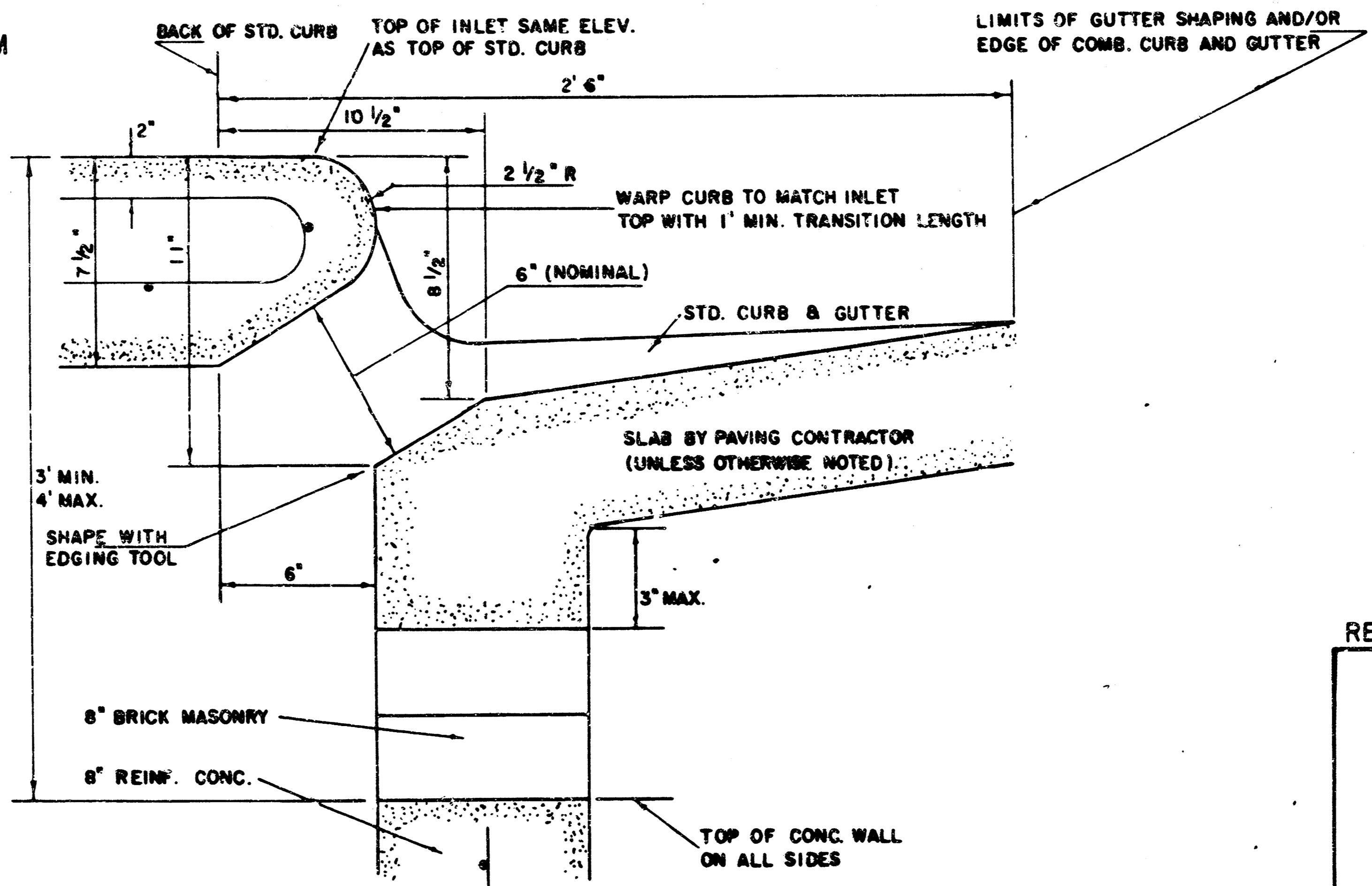
INLET INVERT SHALL BE SHAPED WITH 8 SACK SAND MIX CONCRETE TO CREATE FLOW CHANNELS AND TO INCREASE HYDRAULIC EFFICIENCY SUCH THAT THE INLET WILL BE SELF CLEANING BETWEEN ALL INLET AND/OR OUTLET PIPES.

THE ENDS OF ALL PIPES INSTALLED IN INLETS SHALL BE CUT OFF FLUSH WITH THE INSIDE FACE OF THE INLET WALL.

SECTION B-B



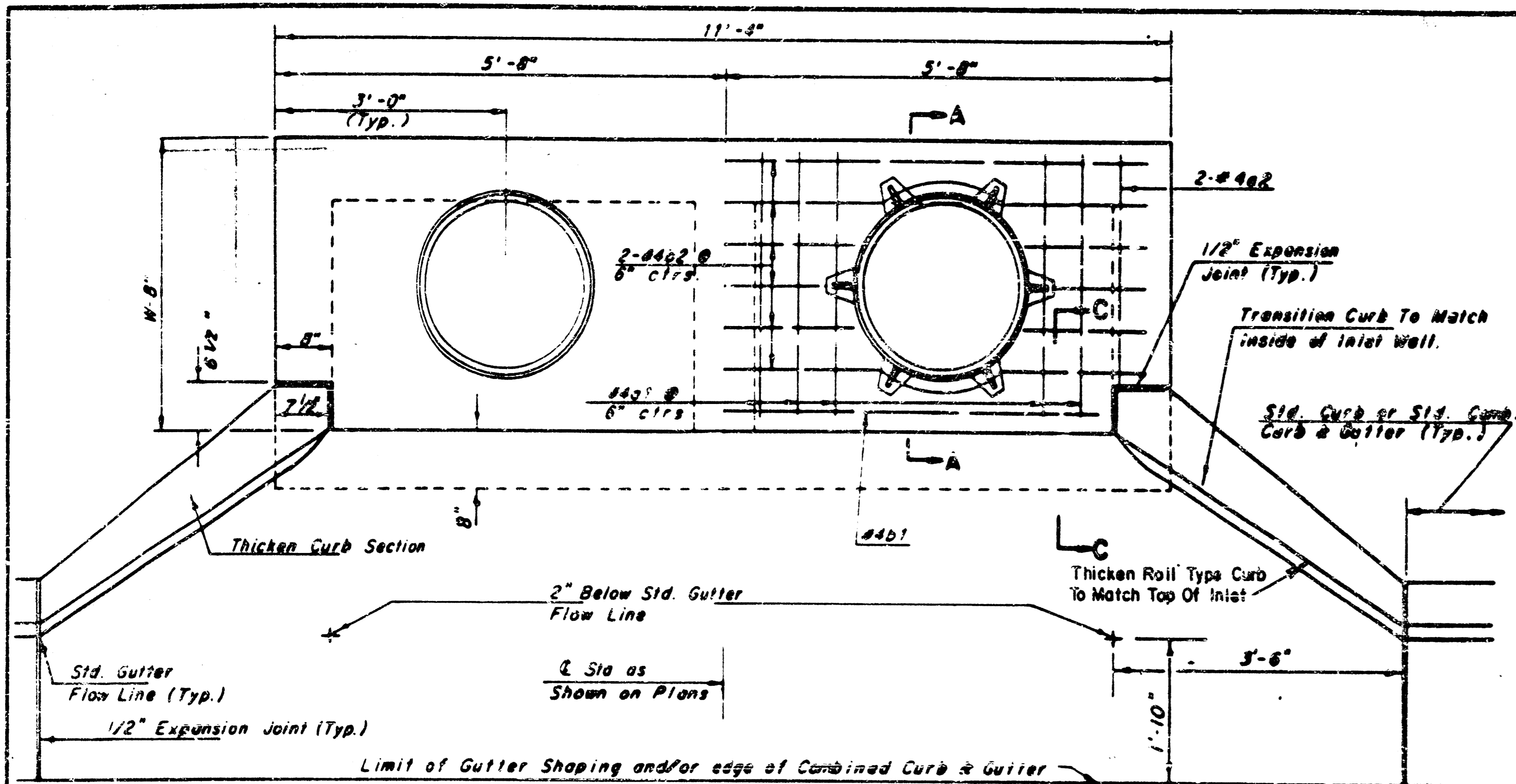
SECTION C-C



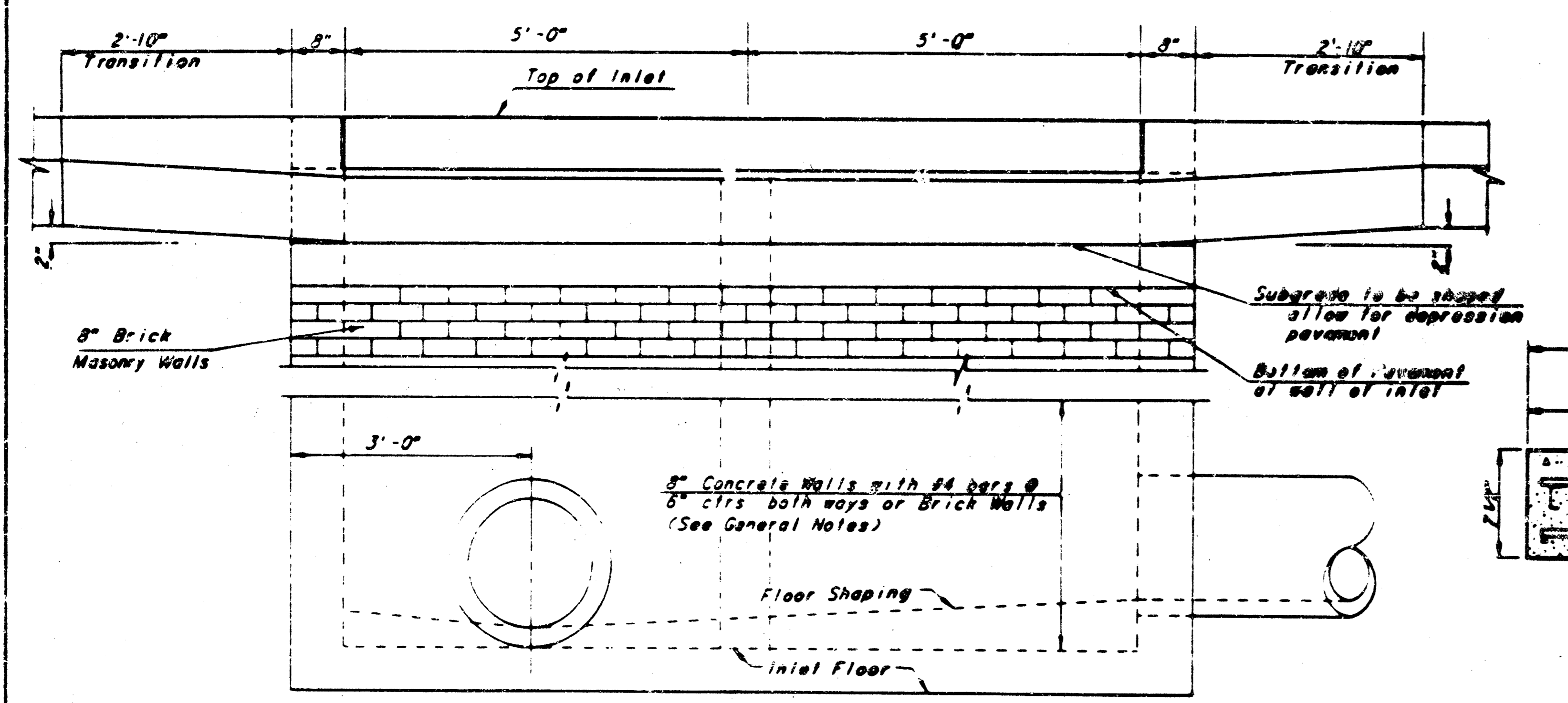
REVISED 12-21-1984

DETAIL STANDARD TYPE I CURB INLET
CITY OF WICHITA, KANSAS
INLET OPENING = 6" x 5'0"

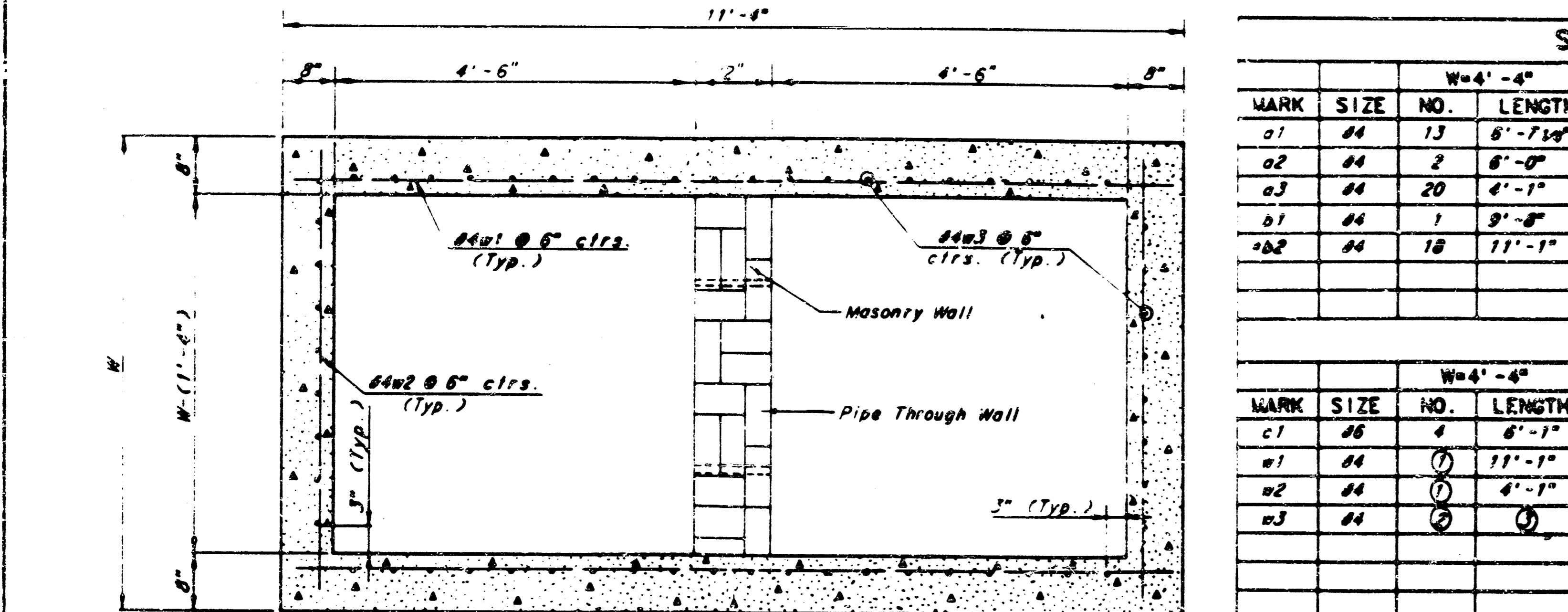
JUNE 1984



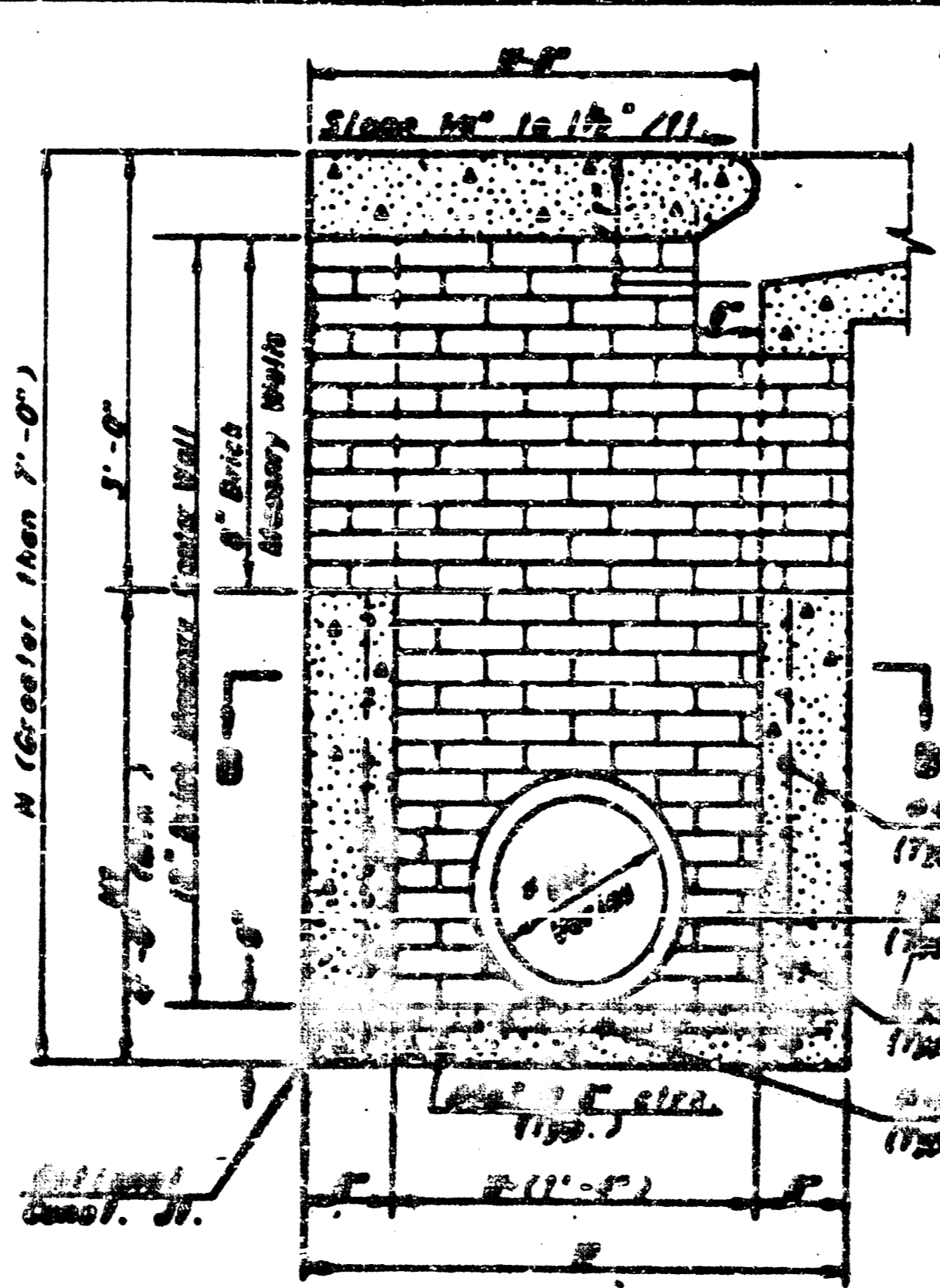
SLAB REINFORCING NOT SHOWN SHOWING SLAB REINFORCING
PLAN
 NOTE: Expansion Joint only in Curb Area with Conc. Pavement.



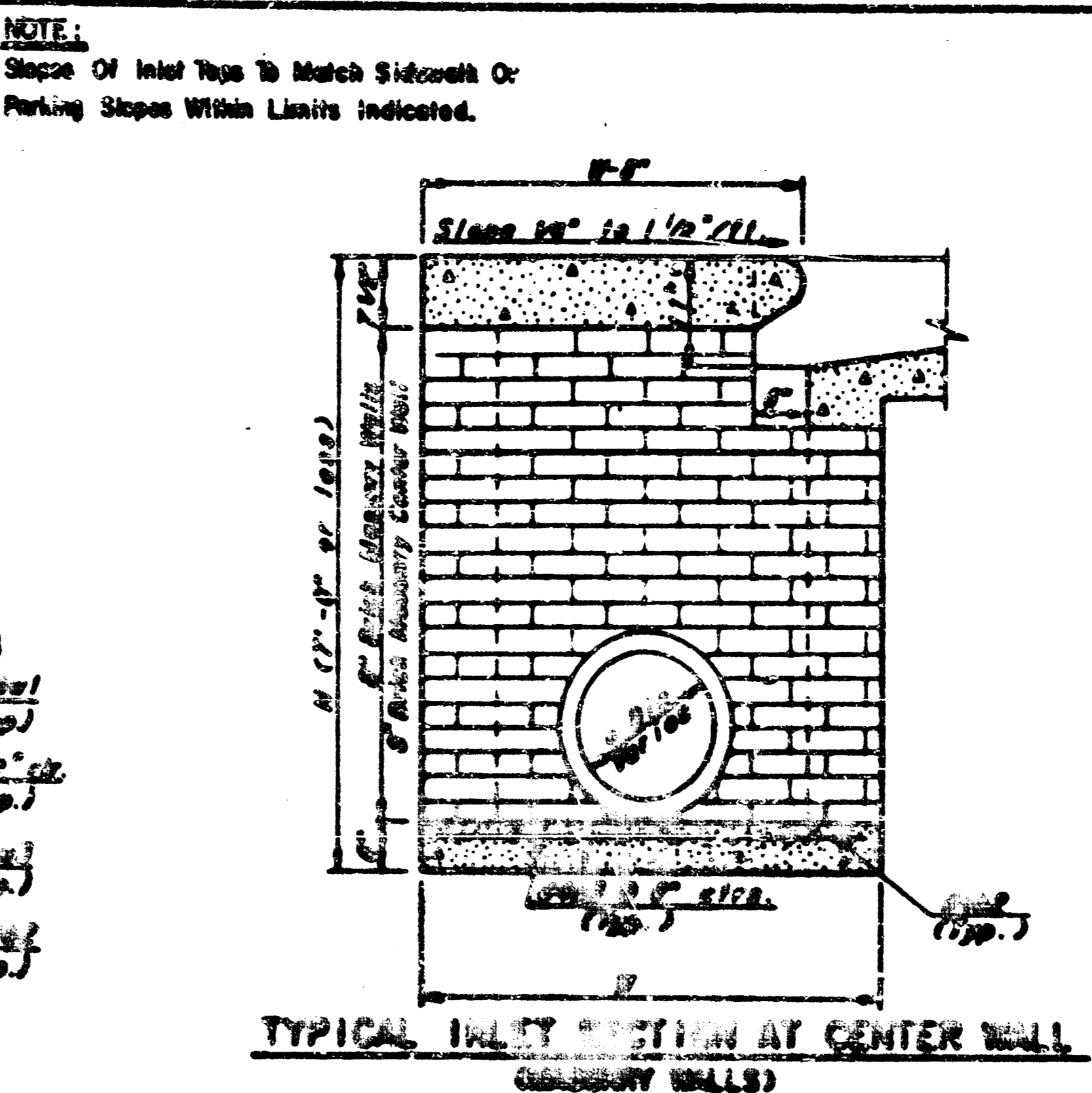
ELEVATION



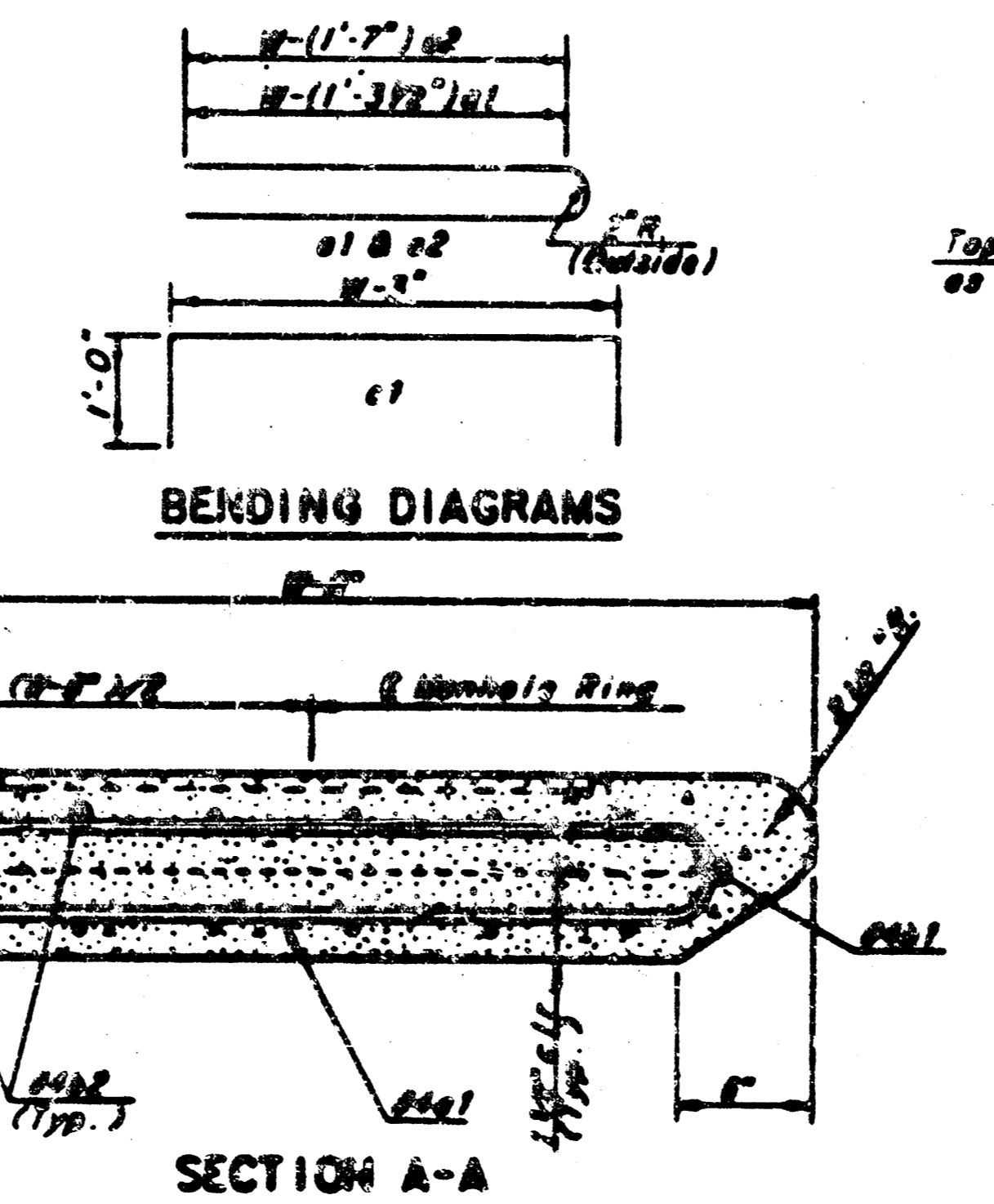
SECTION B-B



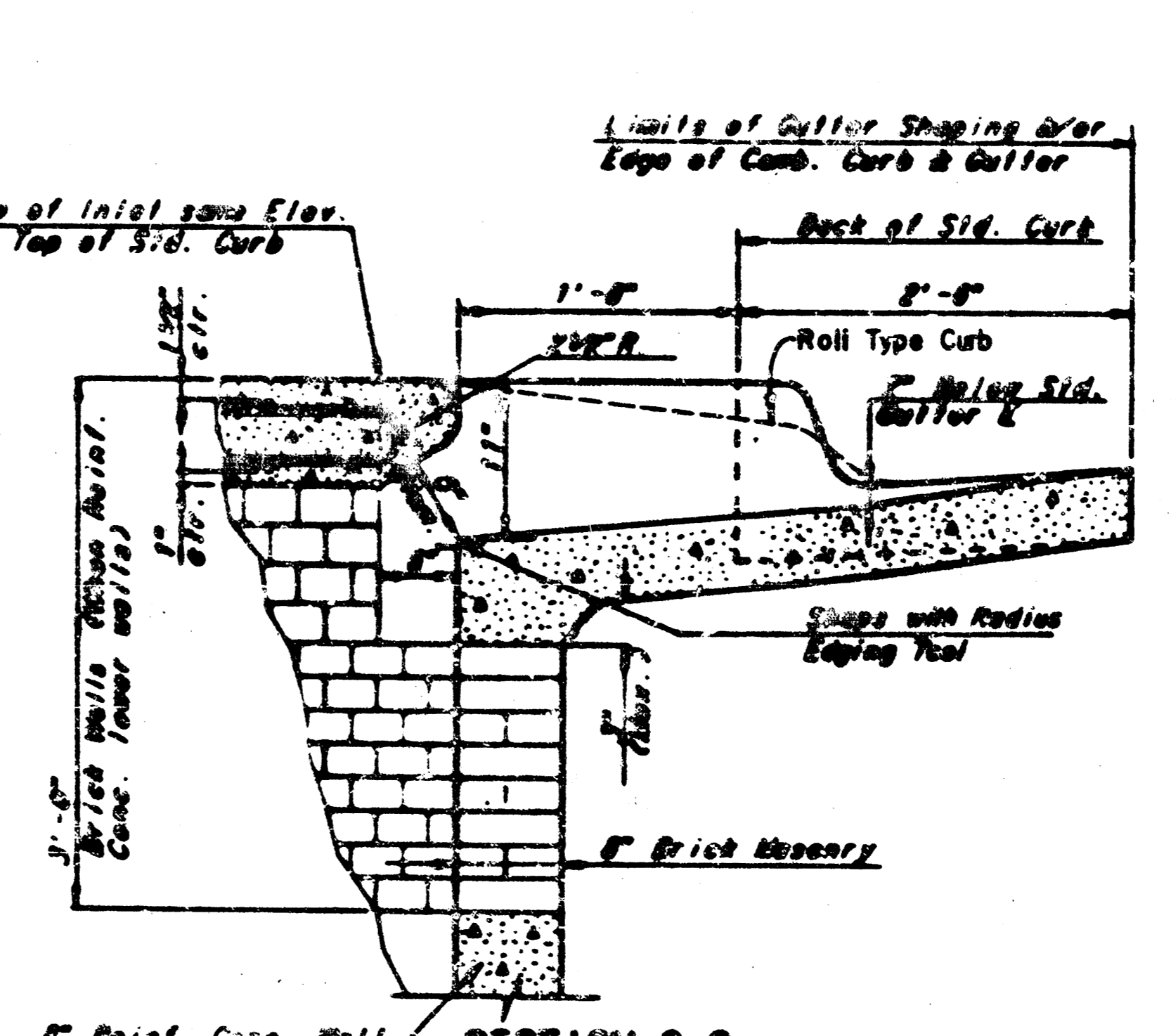
TYPICAL INLET SECTION AT CENTER WALL (REINFORCED CONCRETE WALLS)



TYPICAL INLET SECTION AT CENTER WALL (MASONRY WALLS)
 • A center wall opening shall be provided by means of a section of reinforced concrete pipe. See Case I and Case II below.



SECTION A-A



SECTION C-C

SLAB AND FLOOR REINFORCING

MARK	SIZE	W=4'-4"		W=5'-4"		W=6'-4"		W=7'-4"		W=8'-4"	
		NO.	LENGTH	NO.	LENGTH	NO.	LENGTH	NO.	LENGTH	NO.	LENGTH
01	#4	13	8'-7 1/2"	13	8'-7 1/2"	13	10'-7 1/2"	13	12'-7 1/2"	13	14'-7 1/2"
02	#4	2	8'-0"	2	8'-0"	2	10'-0"	2	12'-0"	2	14'-0"
03	#4	20	4'-1"	20	5'-1"	20	6'-1"	20	7'-1"	20	8'-1"
01	#4	1	9'-8"	1	9'-8"	1	9'-8"	1	9'-8"	1	9'-8"
02	#4	18	11'-1"	24	11'-1"	30	11'-1"	36	11'-1"	42	11'-1"

WALL REINFORCING

MARK	SIZE	W=4'-4"		W=5'-4"		W=6'-4"		W=7'-4"		W=8'-4"	
		NO.	LENGTH	NO.	LENGTH	NO.	LENGTH	NO.	LENGTH	NO.	LENGTH
01	#6	4	8'-1"	4	7'-1"	4	8'-1"	4	9'-1"	4	10'-1"
01	#4	7	11'-1"	7	11'-1"	7	11'-1"	7	11'-1"	7	11'-1"
02	#4	7	4'-1"	7	5'-1"	7	6'-1"	7	7'-1"	7	8'-1"
03	#4	7	7	7	7	7	7	7	7	7	7

* Field bend or cut Reinforcing as required for clearance
 ① 4(NI-5)-4 (NI-5) Rounded down to nearest 0.5"
 ② 40-4(NI-10) ③ NI-10"

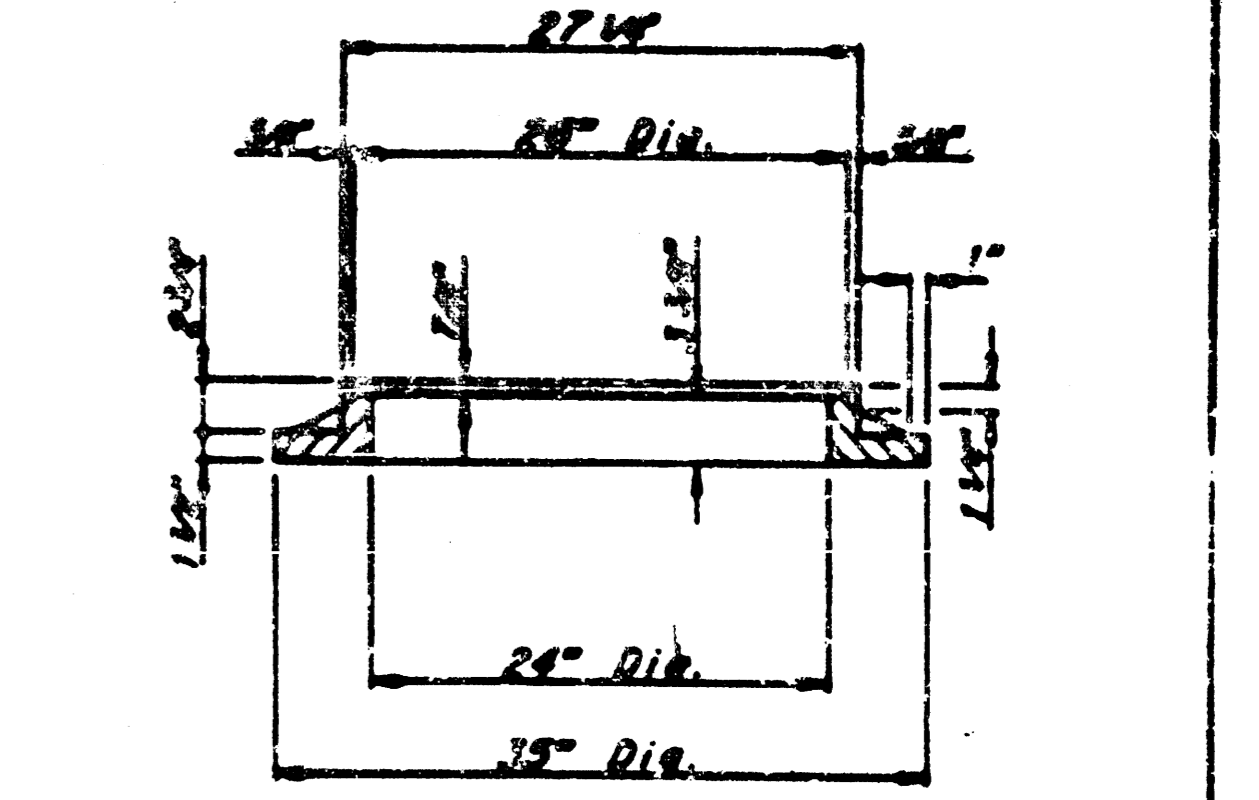
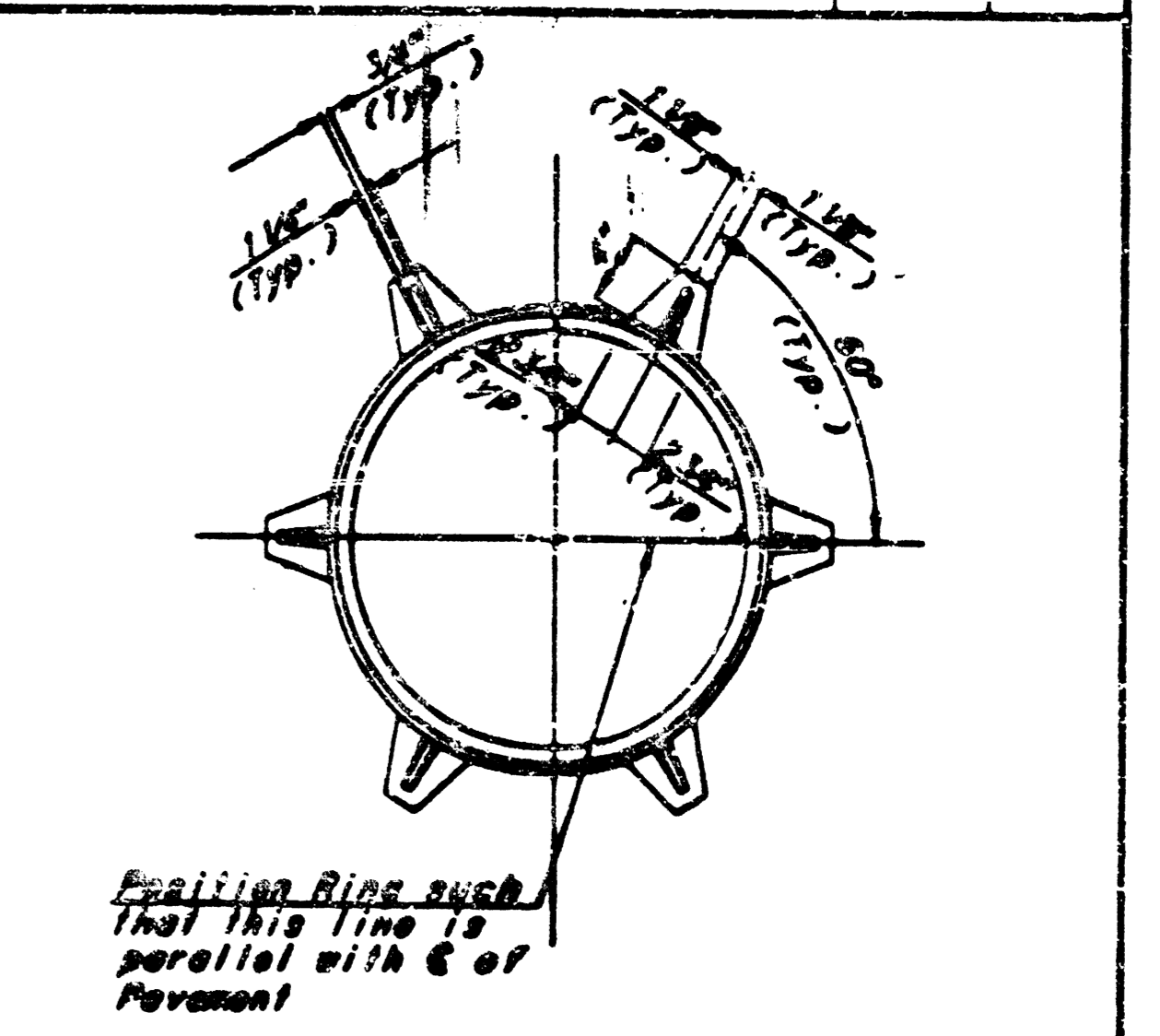
GENERAL NOTES

- THE CONTRACTOR SHALL BE REQUIRED TO CONSTRUCT 8" BRICK MASONRY WALLS BETWEEN THE CONCRETE INLET BASE AND TOP ON THIS INLET WHEN 0'-6" OR LESS AND 11'-0" OR LESS WHEN 11" IS GREATER THAN 0'-6" AND 11" IS LESS THAN 11'-0". THE OUTSIDE INLET WALLS BEHIND THE BRICK STACK SHALL BE REINFORCED CONCRETE CONSTRUCTION AND THE CENTER WALL SHALL BE OF MASONRY CONSTRUCTION AS SHOWN FOR THE MASONRY WALL OPTION.
- INLET INVERT SHALL BE SHAPED WITH 3 PART SAND MIX CONCRETE TO CREATE FLOW CHANNELS AND INCREASE HYDRAULIC EFFICIENCY SUCH THAT THE INLET WILL BE SELF-CLEANING BETWEEN ALL INLET AND/OR OUTLET PIPES.
- CONCRETE TOPS TO BE INSTALLED ON THIS MORTAR CURBION TO INSURE FULL SUPPORT AGAINST BRICK WALLS. CONCRETE TOPS MAY BE CAST IN PLACE OR PRECAST. CONCRETE USED FOR INLET CONSTRUCTION SHALL BE CONCRETE PAVEMENT MIX.
- INLET TOP REINFORCING SHALL BE SPACED ON 6" MAX. CENTERS. INLET LIP SHALL BE NOTCHED OUT AS INDICATED TO FACILITATE CONSTRUCTION OF CURB BARS IN INLET TOP TO BE FIELD BENT OR CUT TO CLEAR MASONRY PINS.
- THE ENDS OF ALL PIPES INSTALLED IN INLETS SHALL BE CUT OFF FLUSH WITH THE INSIDE FACE OF THE INLET WALL.

STANDARD CURB INLET PRECAST TOPS

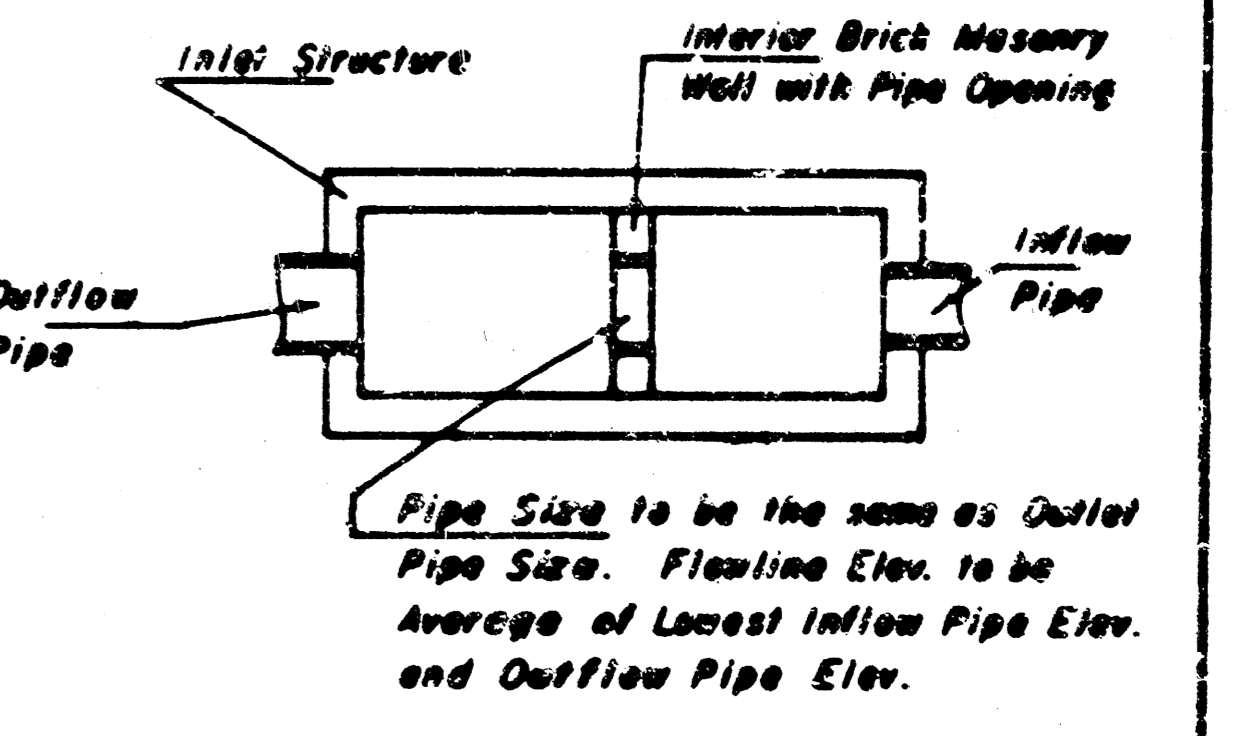
W	PRE-CAST TOP SIZE	SIZE OF INTERIOR WALL PIPE SIZE	CU. YD. CONC.
4'-4"	3'-6" x 11'-4" x 7 1/2"	21" Ø SMALLER	0.83 ±
5'-4"	4'-6" x 11'-4" x 7 1/2"	24" Ø 30"	1.09 ±
6'-4"	5'-6" x 11'-4" x 7 1/2"	36" Ø 42"	1.35 ±
7'-4"	6'-6" x 11'-4" x 7 1/2"	48" Ø 54"	1.61 ±
8'-4"	7'-6" x 11'-4" x 7 1/2"	60" Ø 66"	1.87 ±

PROJECT NO.	SHEET NO.	TOTAL SHEETS

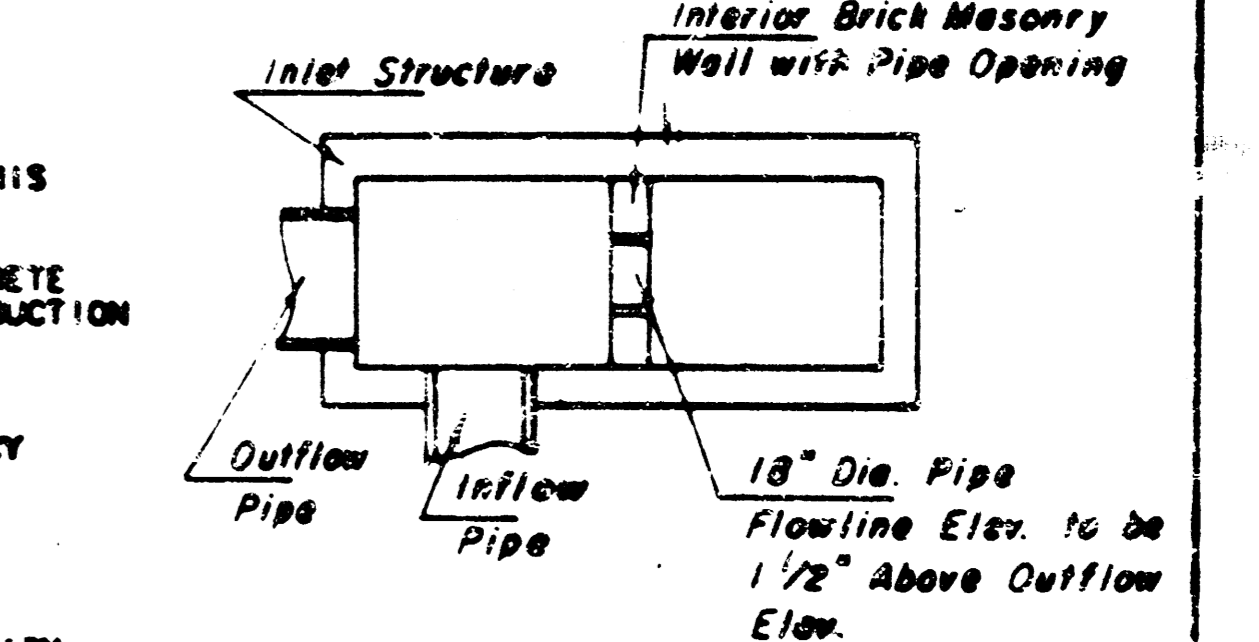


CAST IRON INLET RING
 WT. = 180 lbs.

See City of Wichita Standard Manhole Frame and Cover Detail Sheet for Cover Details to be used with Inlet Frame.



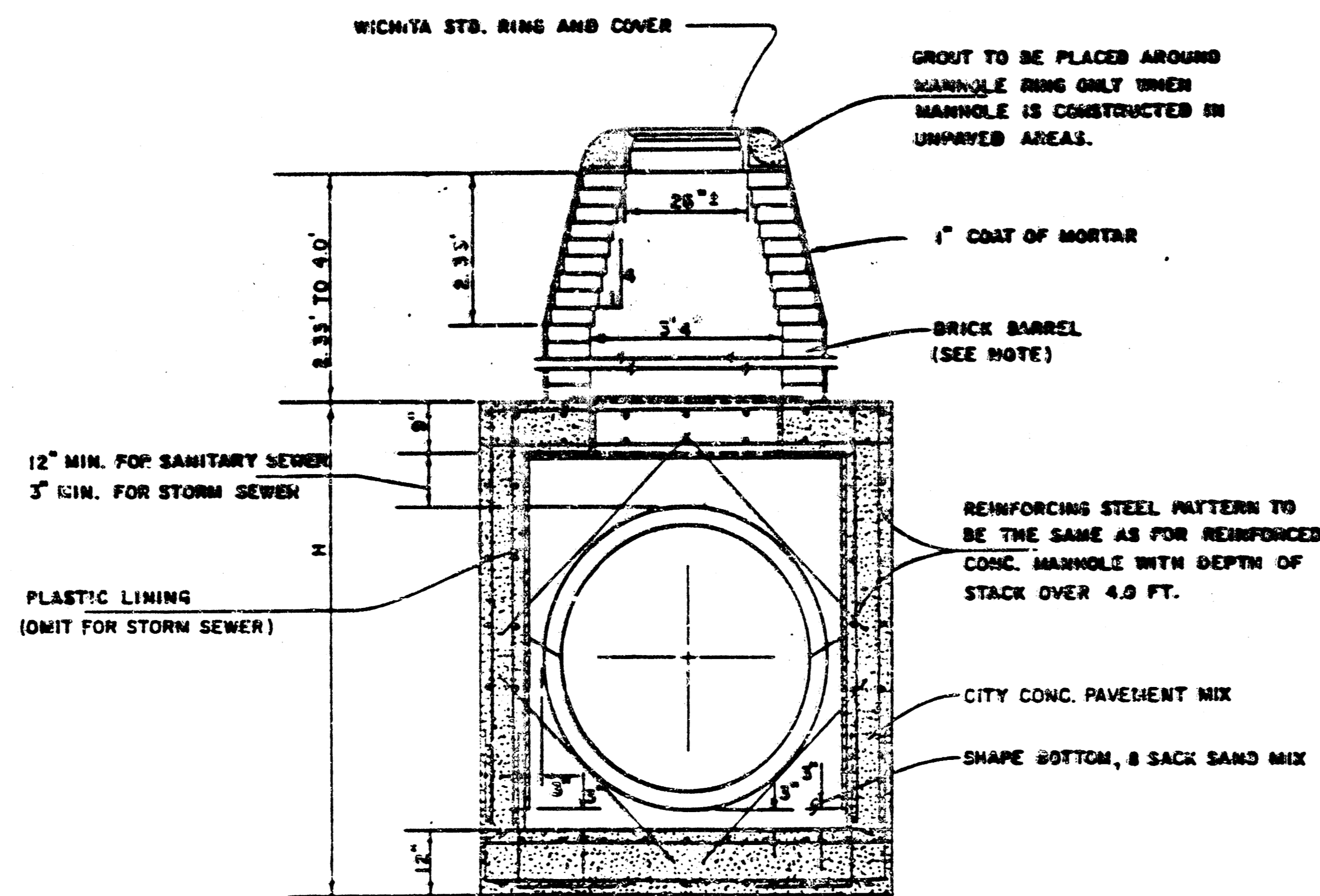
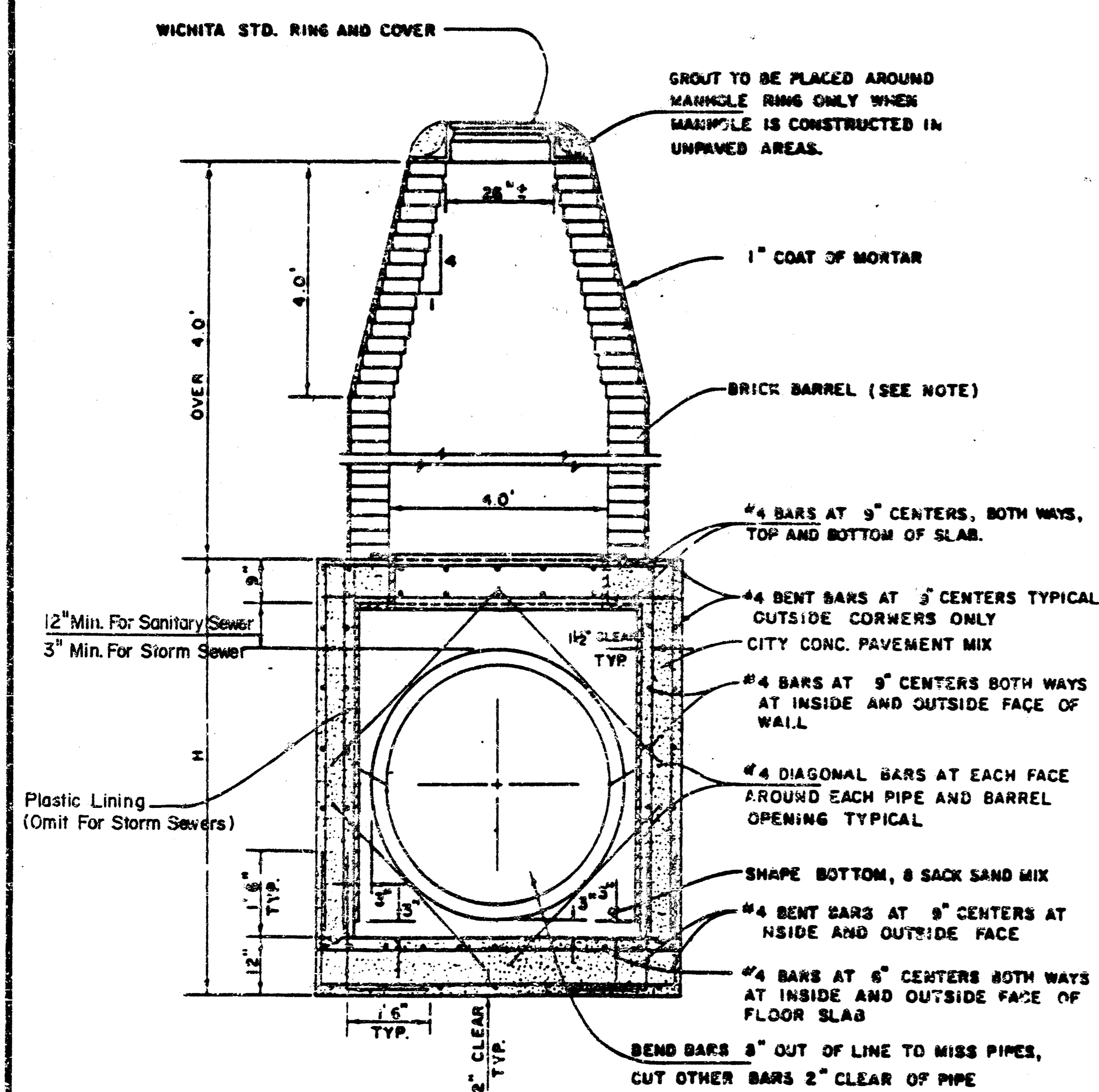
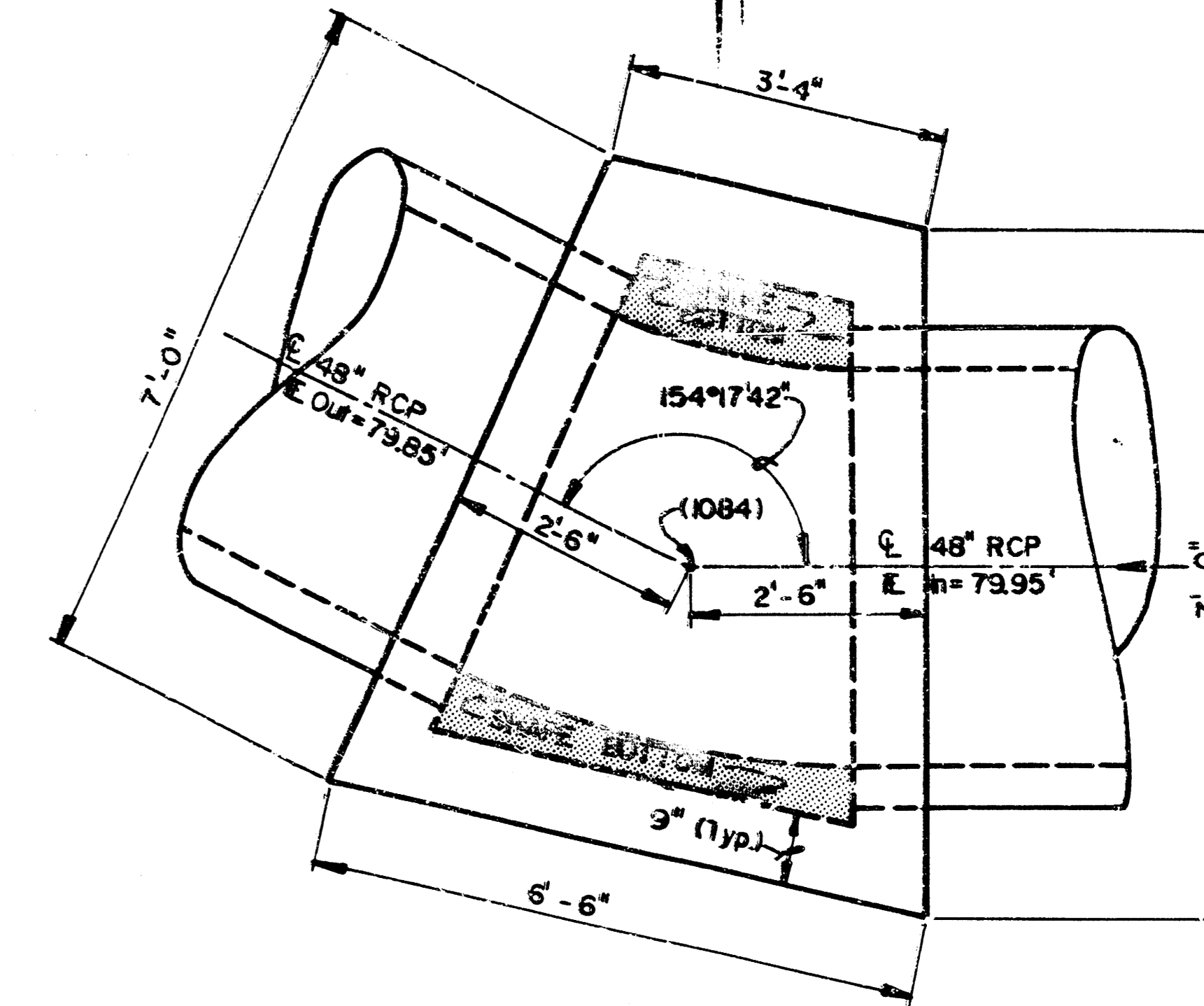
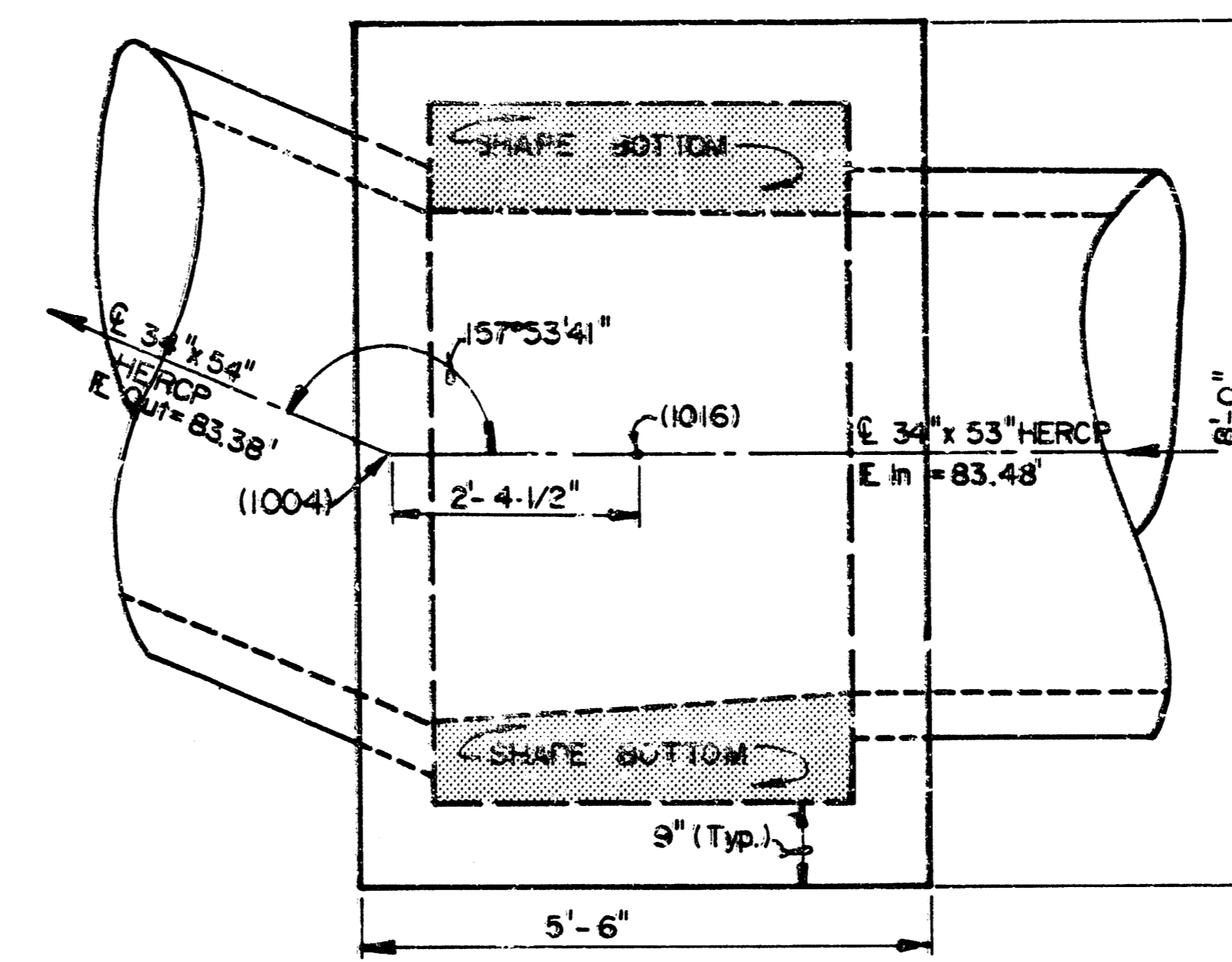
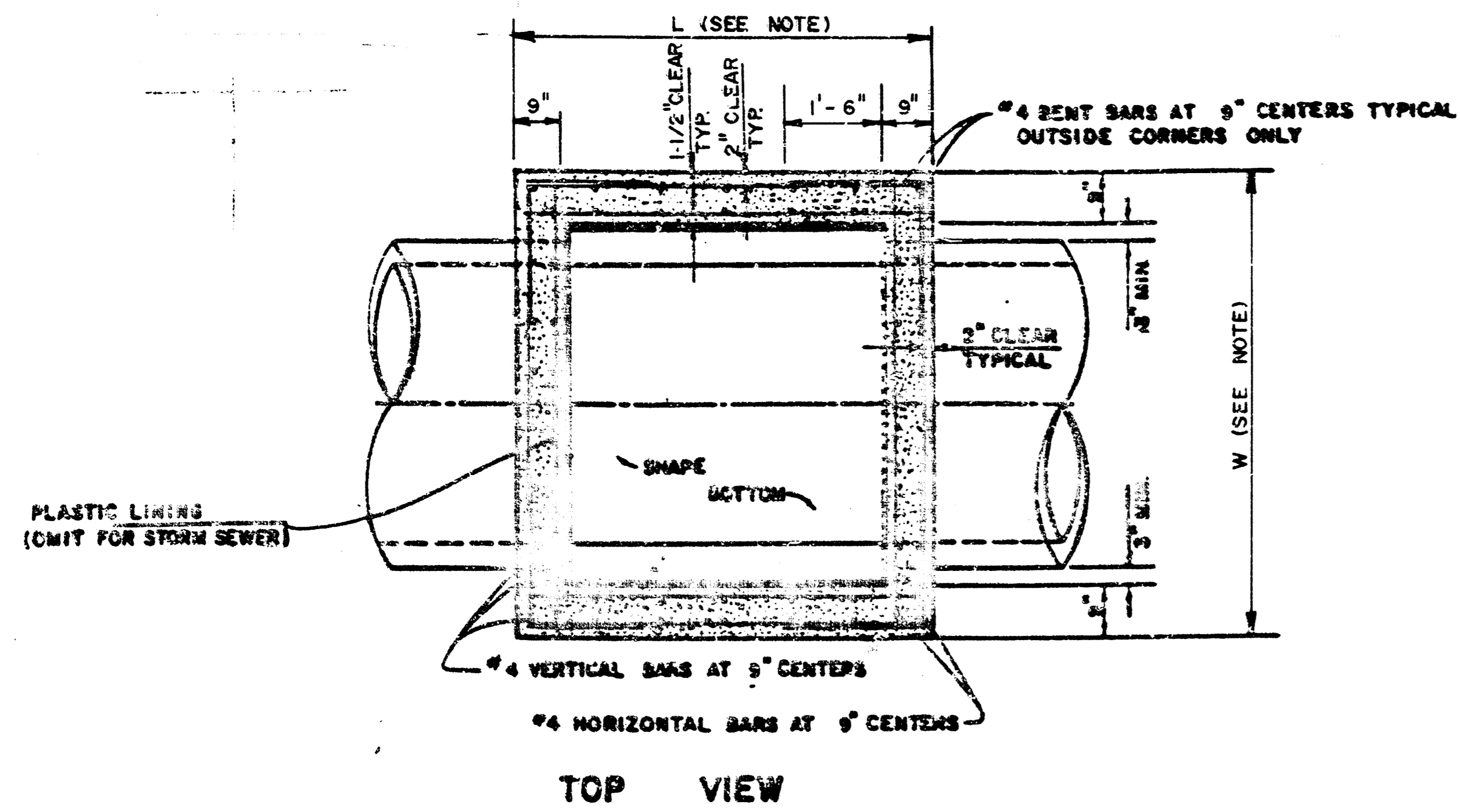
CASE I



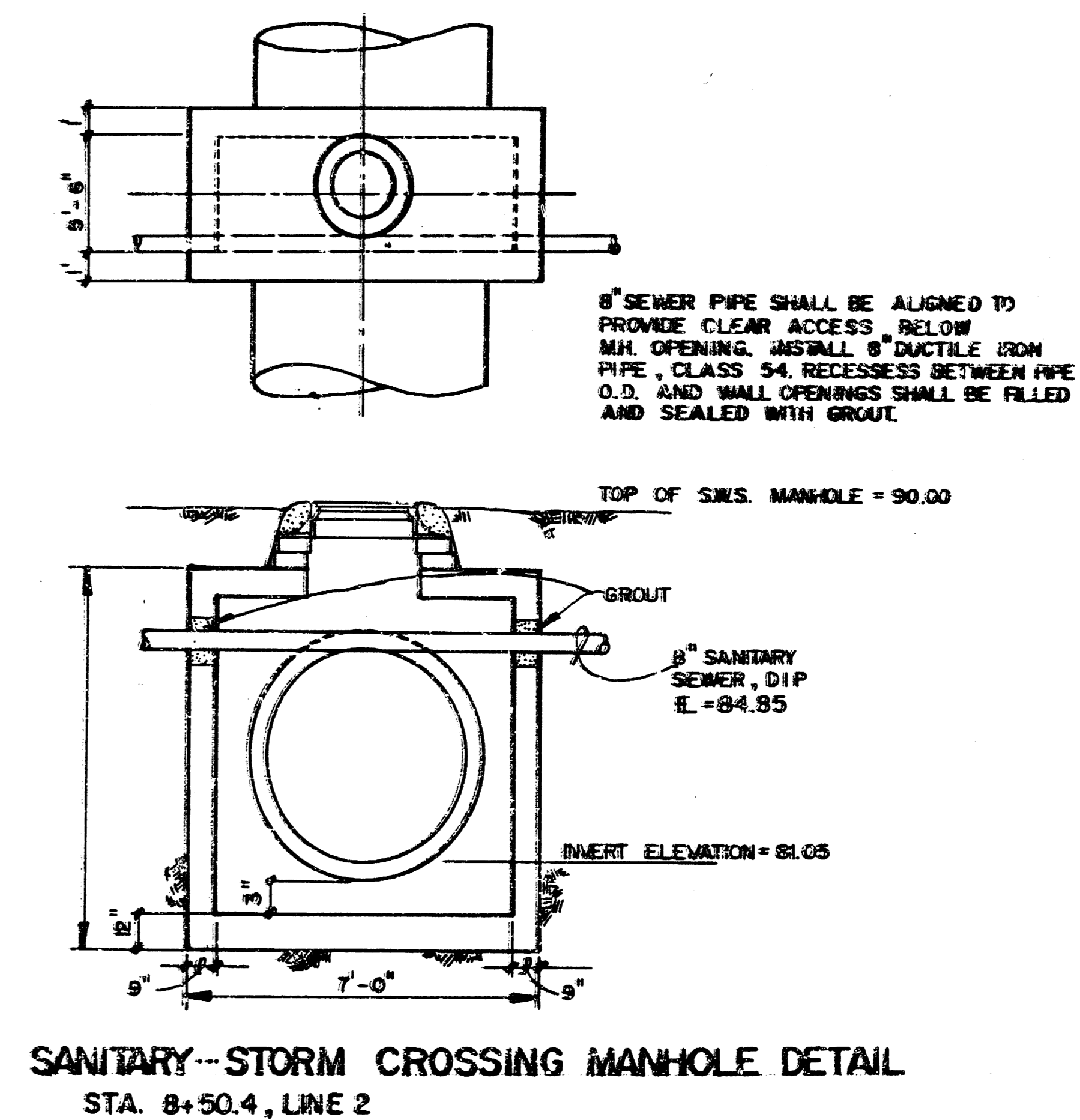
CASE II

NOTE: Center Wall Pipe Size shall be as Specified in Inlet Construction Note on the Plan/Profile Sheets for these Cases not shown here.

STANDARD TYPE 1A CURB INLET
 INLET OPENING = 6" x 10'-0"



NOTE:
BRICK BARRELS LESS THAN 16' DEEP SHALL HAVE 8" WALLS EXCEPT WHEN LOCATED WITHIN PUBLIC STREET OR ALLEY PAVEMENT THEN THE WALL SHALL BE 12". BRICK BARRELS MORE THAN 16' DEEP SHALL HAVE 12" WALLS. THE "L" AND "W" DIMENSIONS SHALL BE A MINIMUM OF 5'-6" FOR BRICK BARRELS WITH 8" WALLS AND 6'-2" FOR BRICK BARRELS WITH 12" WALLS WHEN THE BRICK BARRELS ARE OVER 4 FT. IN HEIGHT. COMPLETED MANHOLE SHALL BE WITHOUT LEAKS AND WATERTIGHT.



	Design	
	Drawn by	
	Checked by	
	Date	
STANDARD DETAILS REINFORCED CONCRETE MANHOLES		Sheet
MID-KANSAS ENGINEERING CONSULTANTS PA 3500 NORTH ROCK ROAD BUILDING #500 WICHITA, KANSAS 67226		12 3120