

STORM SEWER PLANS FOR WINDEMERE SECOND ADDITION

S.W.S. NO. 393
PROJECT NO.
468-81999

CITY OF WICHITA, KANSAS
MICHAEL E. LINDEBAK CITY ENGINEER
OCTOBER, 1990
INDEX NO. 750174

GENERAL NOTES

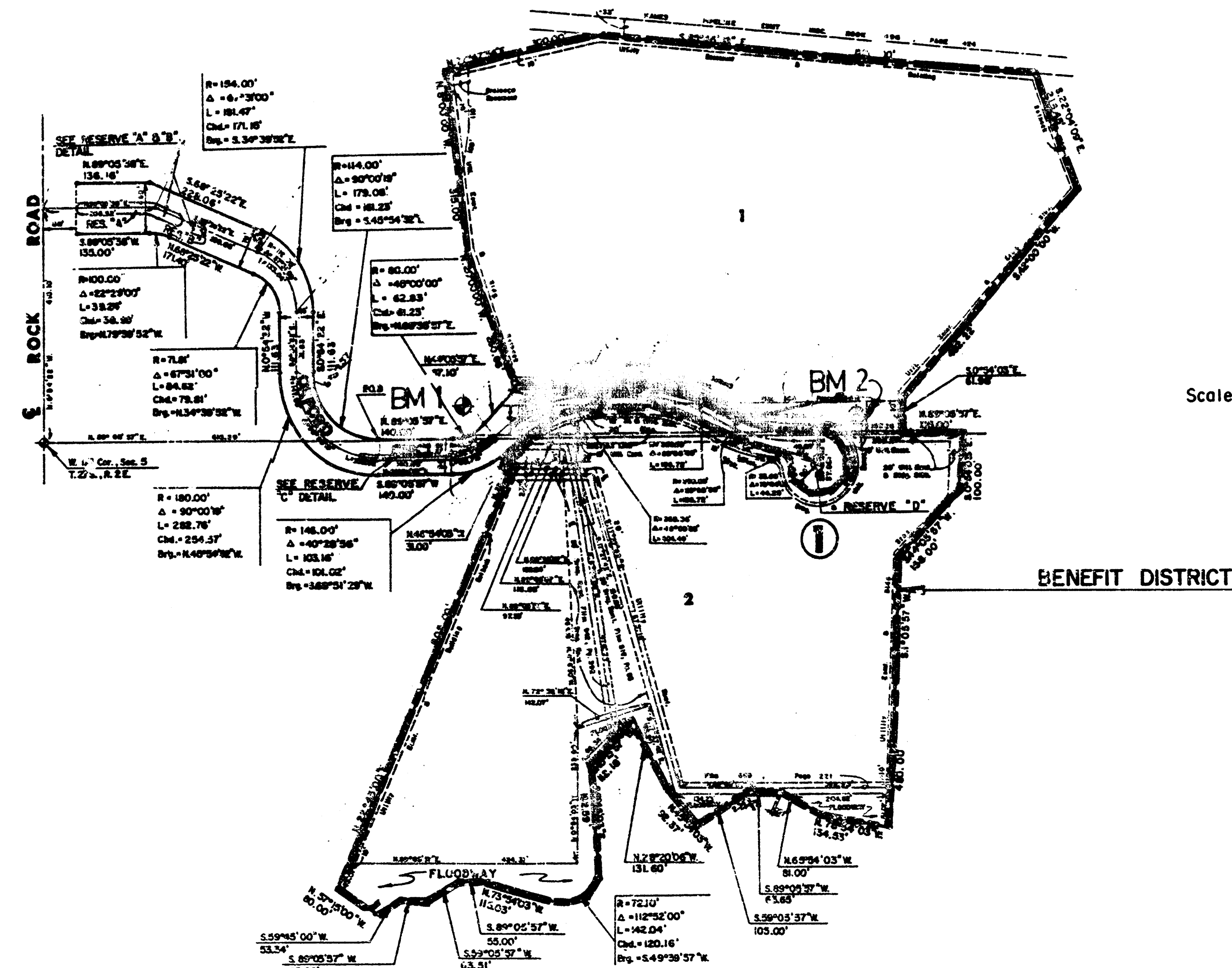
1. THE TOPS OF INLET AND MANHOLE AS NOTED ON THE PLANS MAY VARY SO AS TO MEET PROPOSED TOP OF CURB ELEVATIONS OR PAVEMENT ELEVATIONS. THE FIELD ENGINEER SHALL LOCATE INLETS AND MANHOLES WITH REFERENCE TO PROPOSED PAVING PLANS OF THE PERTINENT STREETS. INLET DEPRESSIONS NEED TO BE TIED TO CURB, GUTTER AND PAVING.
2. 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.
3. TREES TO BE REMOVED ARE MARKED . ALL TREES WHICH IN THE OPINION OF THE FIELD ENGINEER CAN BE SAVED, SHALL BE SAVED.
4. ALL CONCRETE SHALL BE STANDARD PAVING MIX UNLESS OTHERWISE NOTED.
5. UNDERGROUND UTILITY SERVICE LINES AND OVERHEAD UTILITY "JLE LINE" 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.
6. THE CHANNEL AND ALL AREAS DISTURBED BY EXCAVATION OF THE CHANNEL ABOVE WATER SHALL BE SEEDED, FERTILIZED AND MULCHED PER CITY OF WICHITA SPECIFICATIONS.

NOTE: NOTIFY THE FOLLOWING COMPANIES PRIOR TO ANY EXCAVATION:

BELL TELEPHONE COMPANY	571-2115
CABLEVISION	262-0661
KPL COMPANY	263-7511
KANSAS GAS & ELECTRIC	264-1141
KANSAS ONE-CALL	1-800-344-7233
CITY OF WICHITA WATER DEPT.	268-4908
CITY OF WICHITA SEWER MAINT.	268-4071

BENCH MARKS

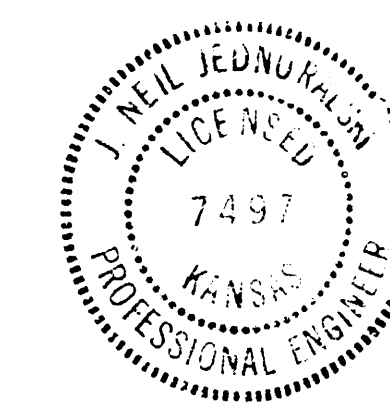
- BM #1 - Stepped Spike in S.W. Corner "Y"
Pole 650' + East of Rock Road
(2nd "Y" Pole East of Rock Road)
Elev. = 208.22
- BM #2 - Stepped Spike in N.W. Corner "Y"
Pole (3rd "Y" Pole East of Rock Rd.)
Elev. = 210.13



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SHEET NO.	DESCRIPTION
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6	STD. TYPE 1-A CURB INLET DETAIL (10' OPENING)
7	STD. TYPE 1 CURB INLET DETAIL (5' OPENING)
8	REINFORCED CONCRETE AREA INLET
9	STD. SHALLOW MANHOLE DETAILS
10	STD. TYPE "A" MANHOLE DETAILS
11-12	FINAL PLAT

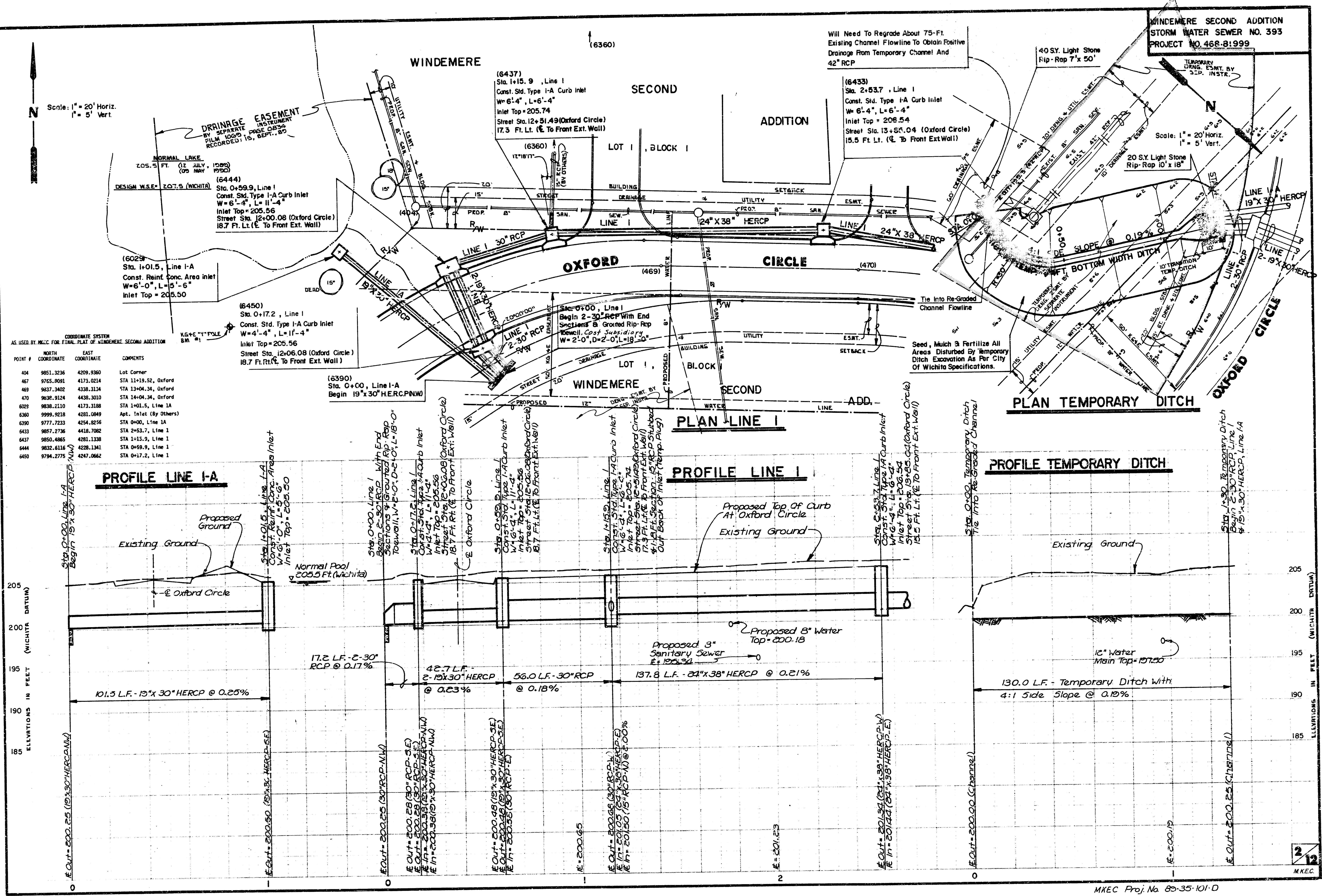
Booked: 3-18-91 MCG



	WINDEMERE SECOND ADDITION	Drawn by JNL
	STORM WATER SEWER PLANS	Checked by DLM
MID-KANSAS ENGINEERING CONSULTANTS PA 3500 NORTH ROCK ROAD BUILDING #800 WICHITA, KANSAS 67226		Date Oct. 1990 Proj. No. 468-81999
636-5566		Sheet 1 of 12

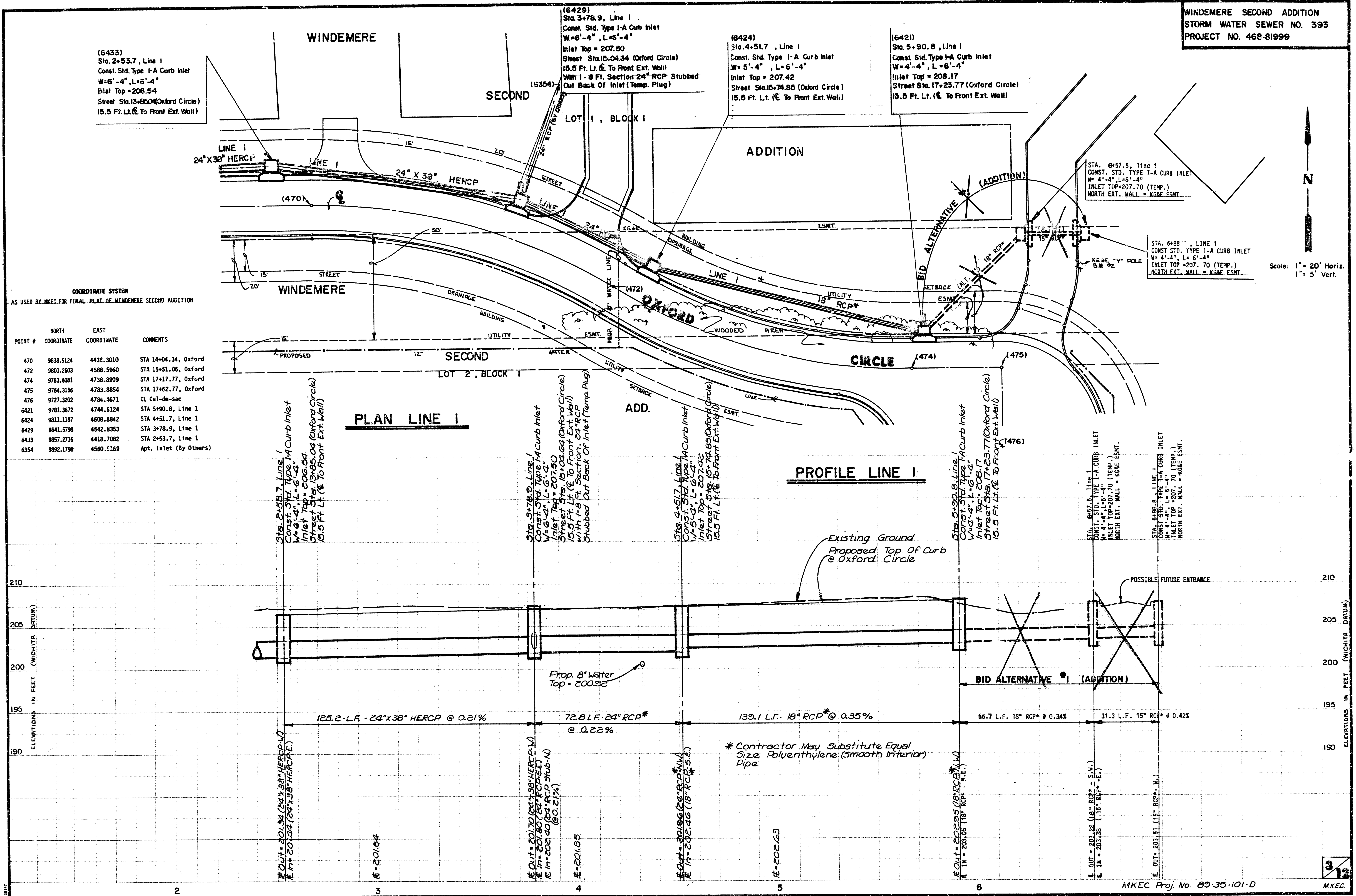
MKEC Proj. No. 89-35-101-D

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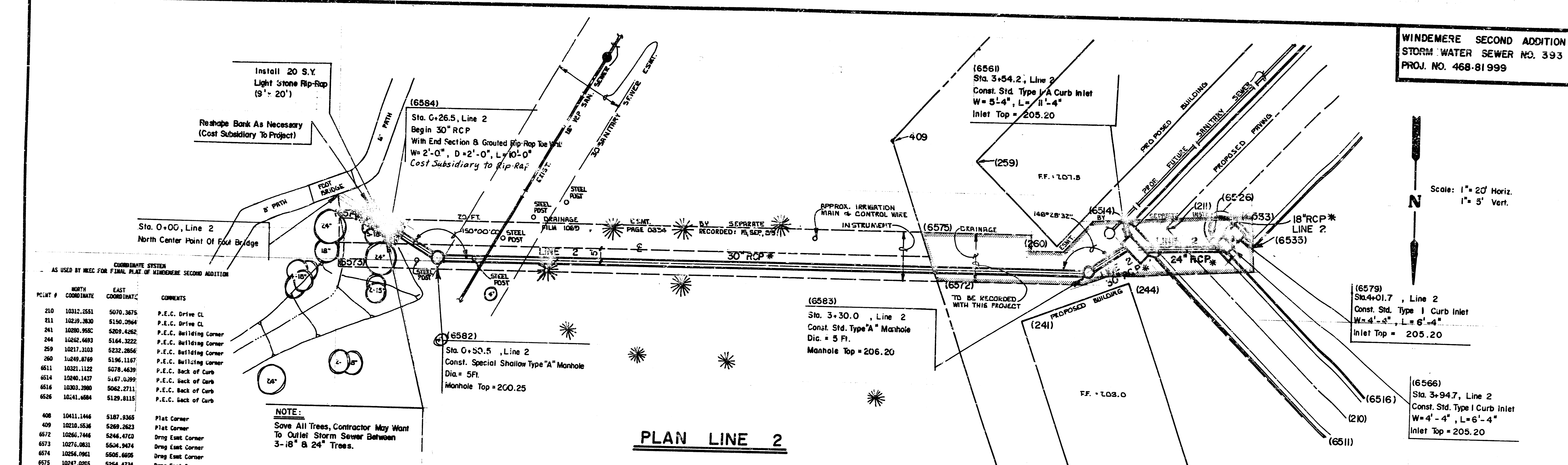
MKEC Proj. No. 85-35-101-D

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Scale: 1" = 20' Horiz.
1" = 5' Vert.

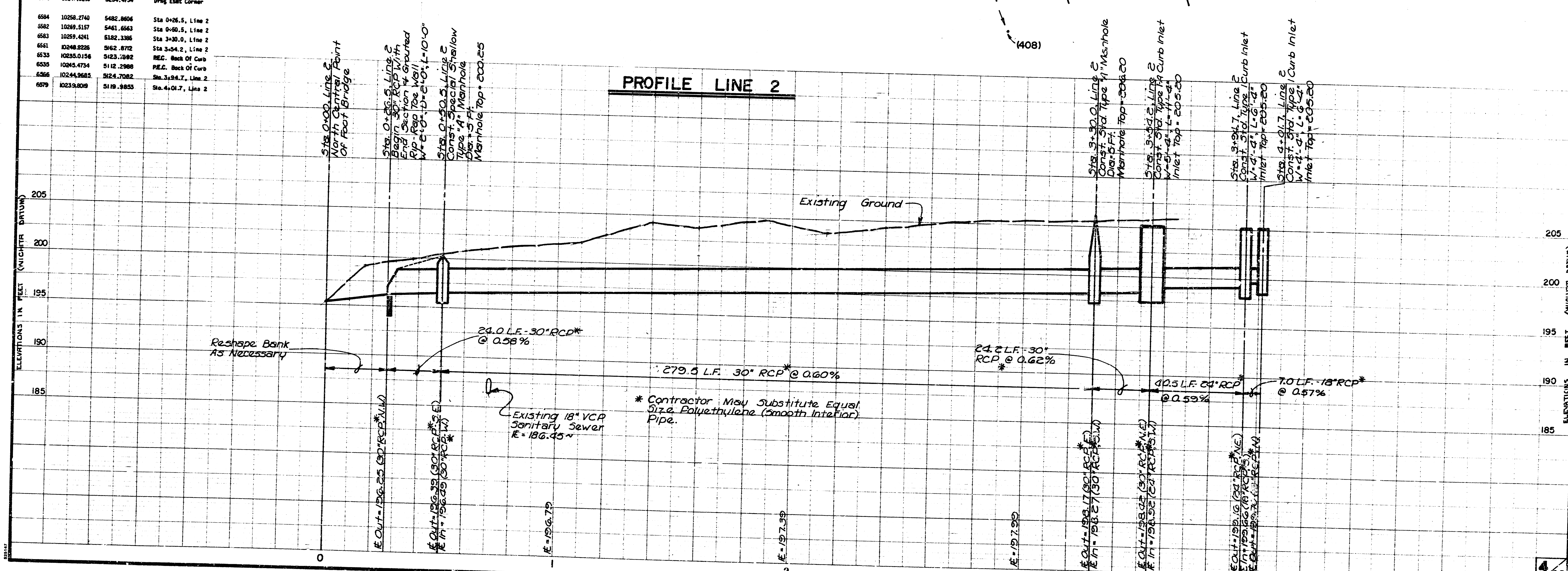


COORDINATE SYSTEM
AS USED BY MKEC FOR FINAL PLAN OF WINDERMERE SECOND ADDITION

POINT #	NORTH COORDINATE	EAST COORDINATE	COMMENTS
210	10212.2551	5070.3675	P.E.C. Drive CL
211	10209.3830	5150.7964	P.E.C. Drive CL
241	10200.9550	5209.4282	P.E.C. Building Corner
244	10202.6693	5164.3222	P.E.C. Building Corner
259	10217.3103	5232.2856	P.E.C. Building Corner
260	10249.8769	5196.1167	P.E.C. Building Corner
6511	10321.1122	5078.4639	P.E.C. Back of Curb
6514	10240.1437	5167.0399	P.E.C. Back of Curb
6516	10303.3980	5062.2711	P.E.C. Back of Curb
6526	10241.6884	5129.8115	P.E.C. Back of Curb
408	10411.1446	5187.9365	Plot Corner
409	10210.5536	5269.2823	Plot Corner
6572	10266.7446	5244.4753	Drain East Corner
6573	10276.0831	5504.9474	Drain East Corner
6574	10256.0961	5505.6695	Drain East Corner
6575	10247.0205	5254.4734	Drain East Corner
6584	10258.2740	5482.8606	Sta. 0+26.5, Line 2
6582	10259.5157	5461.6563	Sta. 0+50.5, Line 2
6583	10259.4241	5182.3386	Sta. 3+30.0, Line 2
6581	10248.8208	5162.8772	Sta. 3+54.2, Line 2
6533	10235.0154	5123.7892	REG. Back of Curb
6535	10245.4734	5112.2989	P.E.C. Back of Curb
6566	10244.9685	5124.7082	Sta. 3+94.7, Line 2
6579	10233.8009	5119.9855	Sta. 4+01.7, Line 2

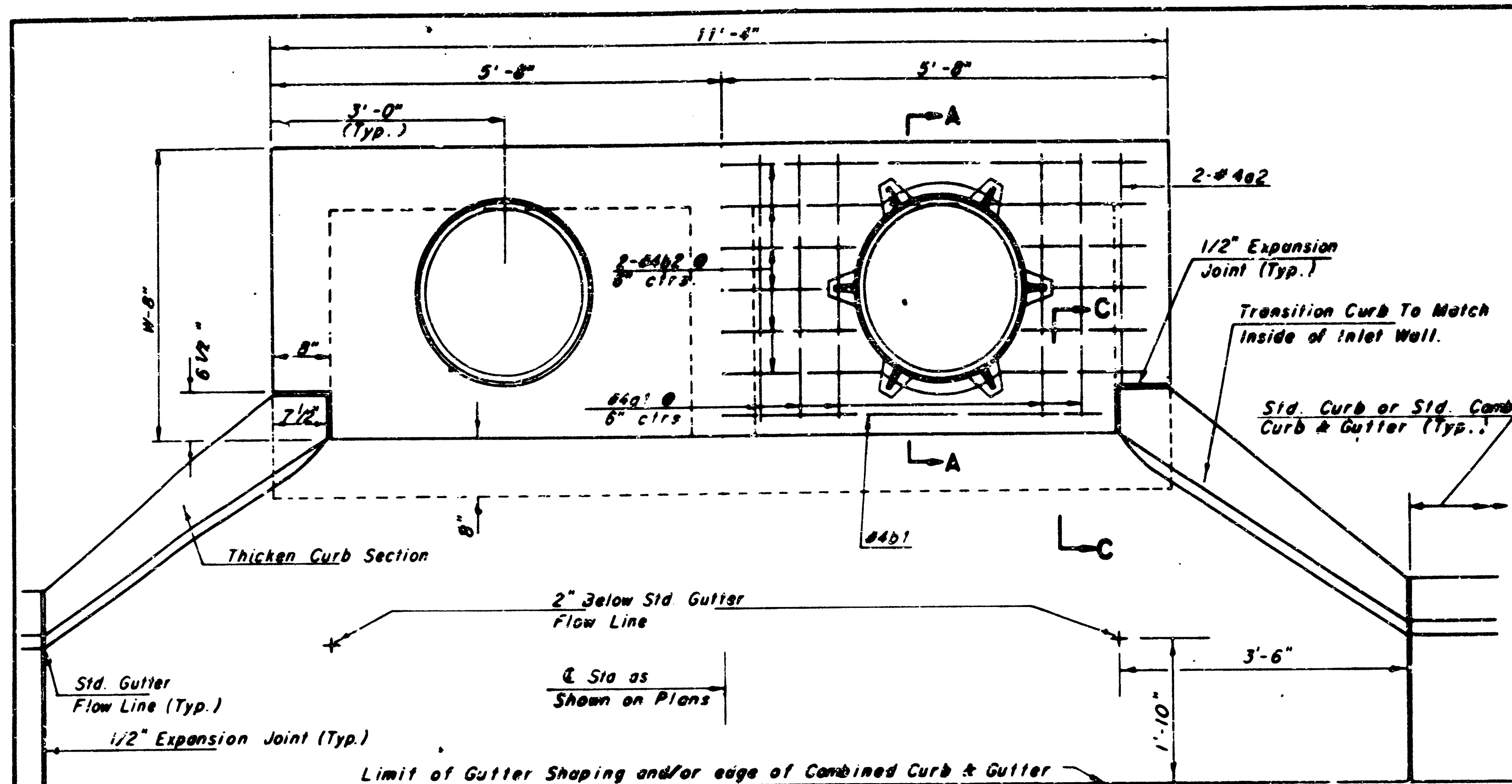
NOTE:
Save All Trees, Contractor May Want
To Outlet Storm Sewer Between
3-18" & 24" Trees.

PLAN LINE 2



PROFILE LINE 2

* Contractor May Substitute Equal
Size Polyethylene (Smooth Interior)
Pipe.

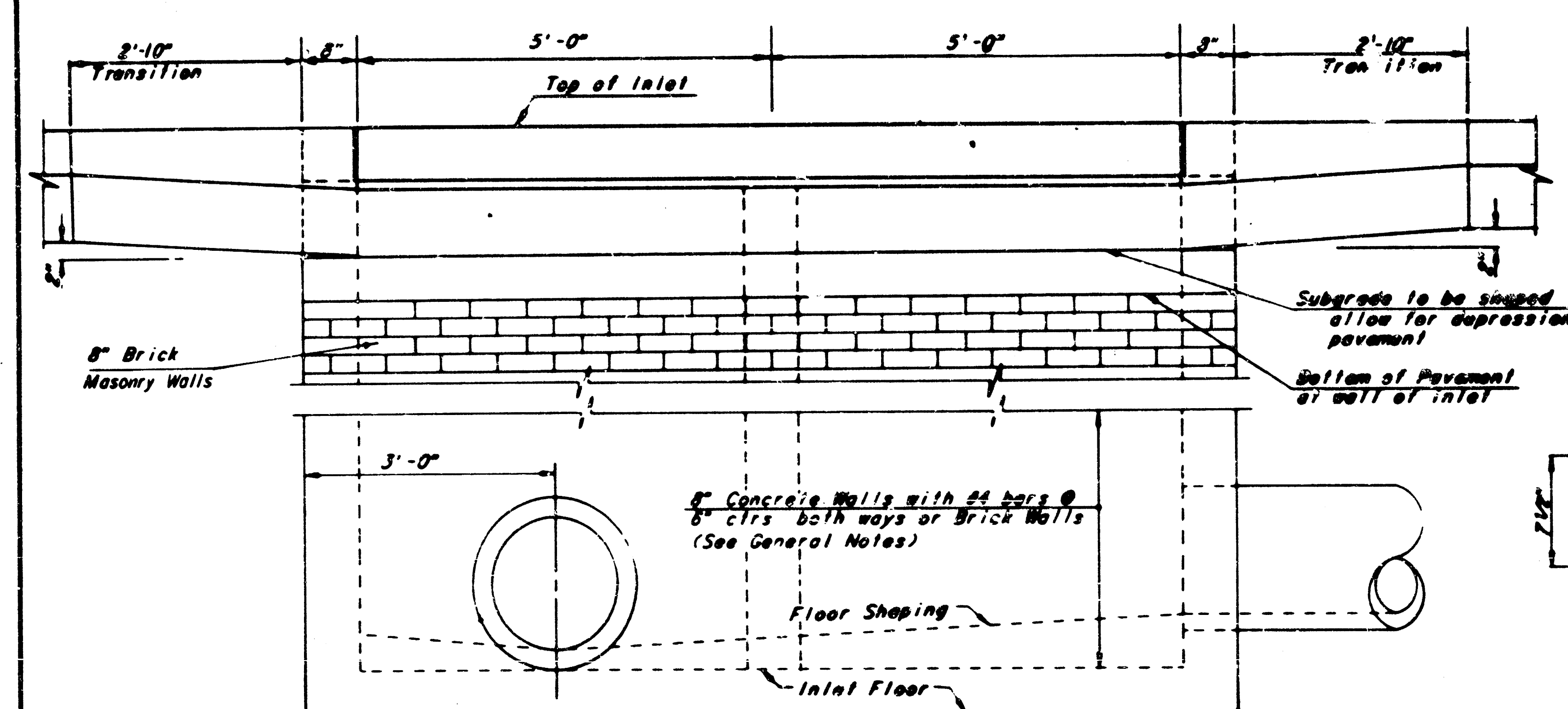


SLAB REINFORCING NOT SHOWN

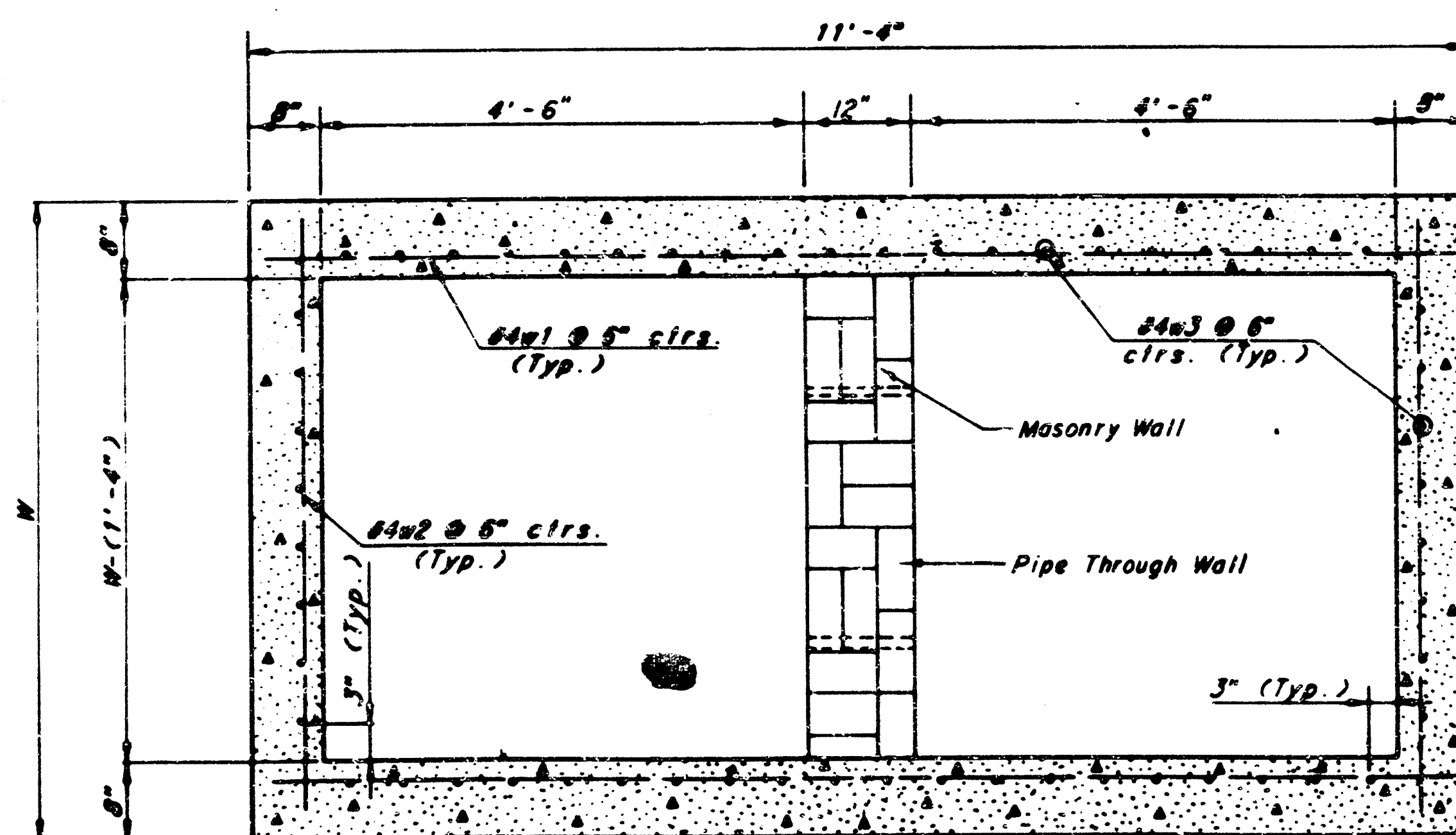
SHOWING SLAB REINFORCING

NOTE: Expansion Joint only in Curb Area with Conc. Pavement.

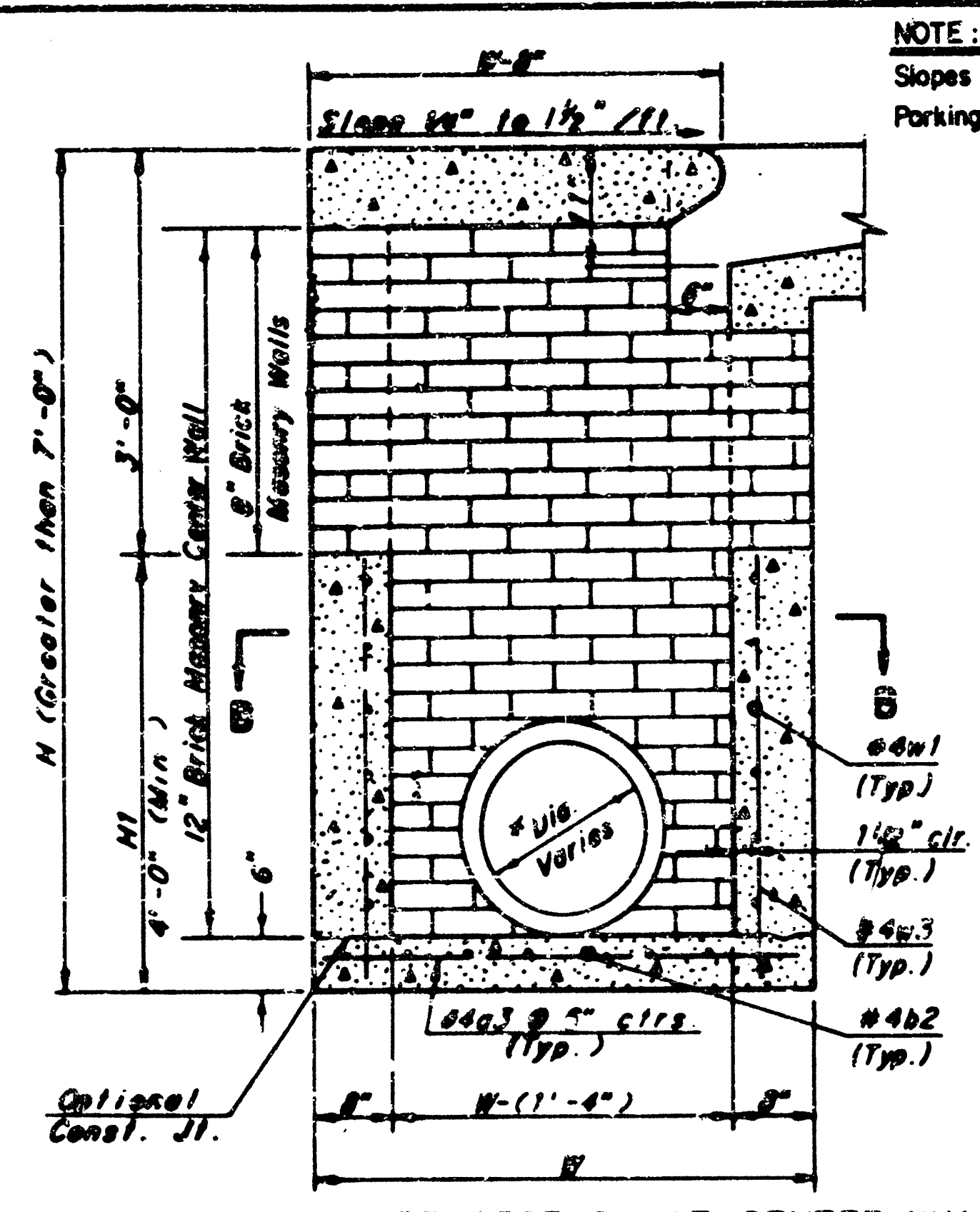
PLAN



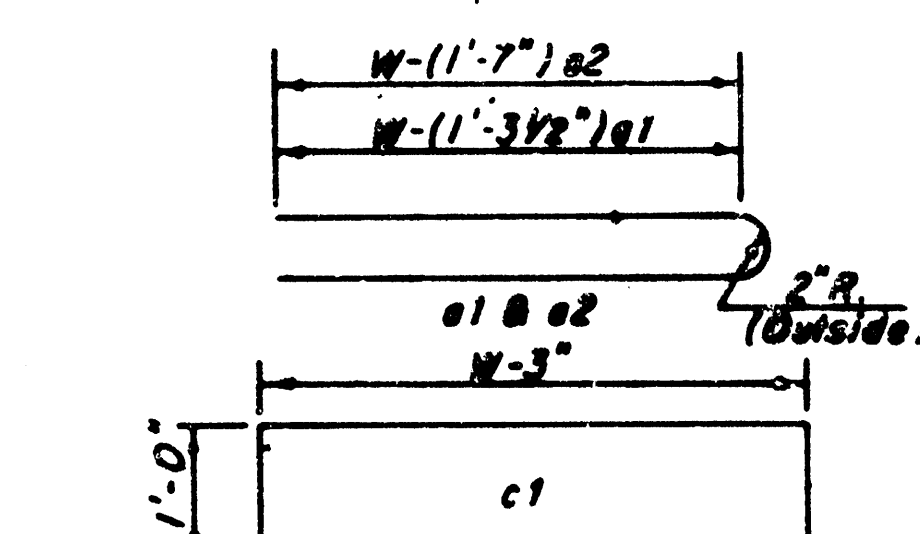
ELEVATION



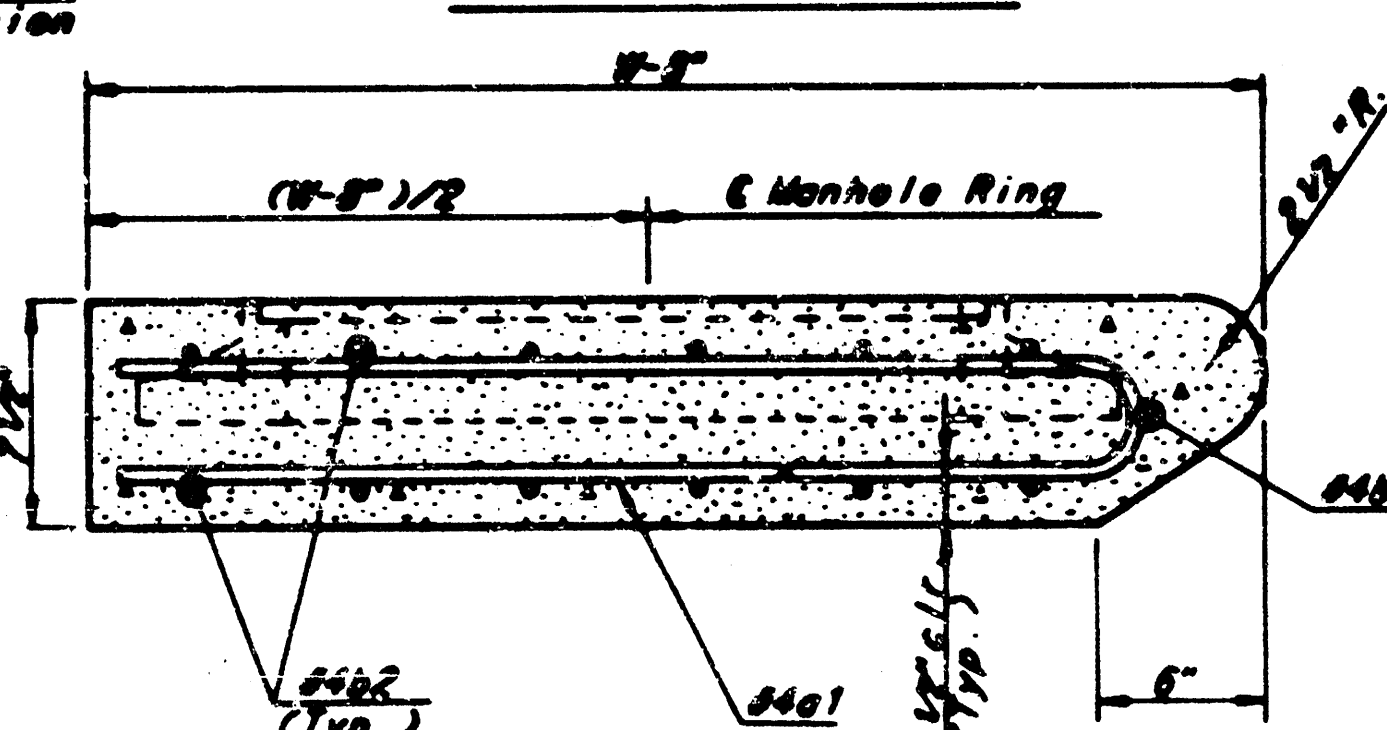
SECTION B-B



TYPICAL INLET SECTION AT CENTER WALL
(REINFORCED CONCRETE WALLS)

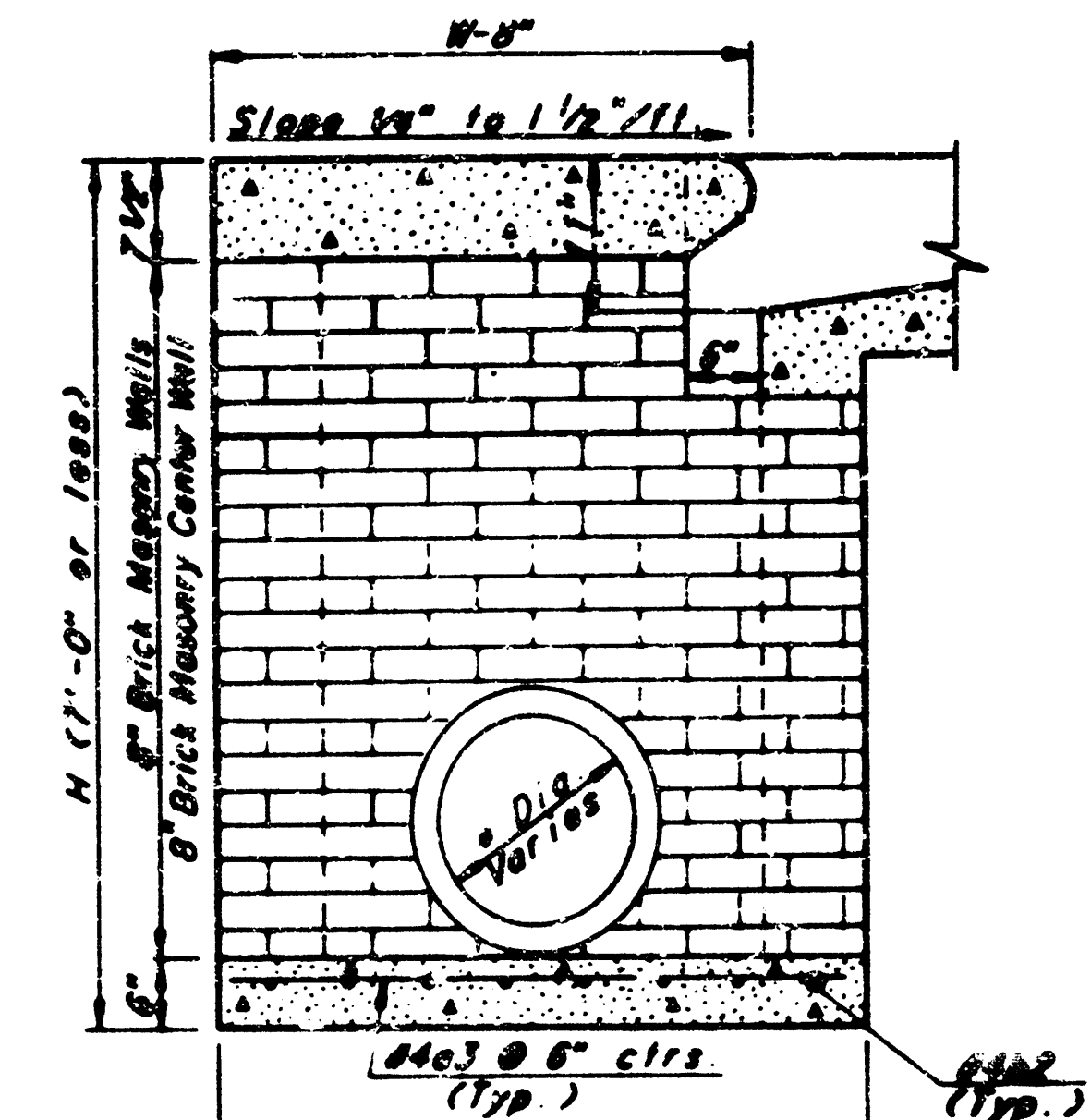


BENDING DIAGRAMS



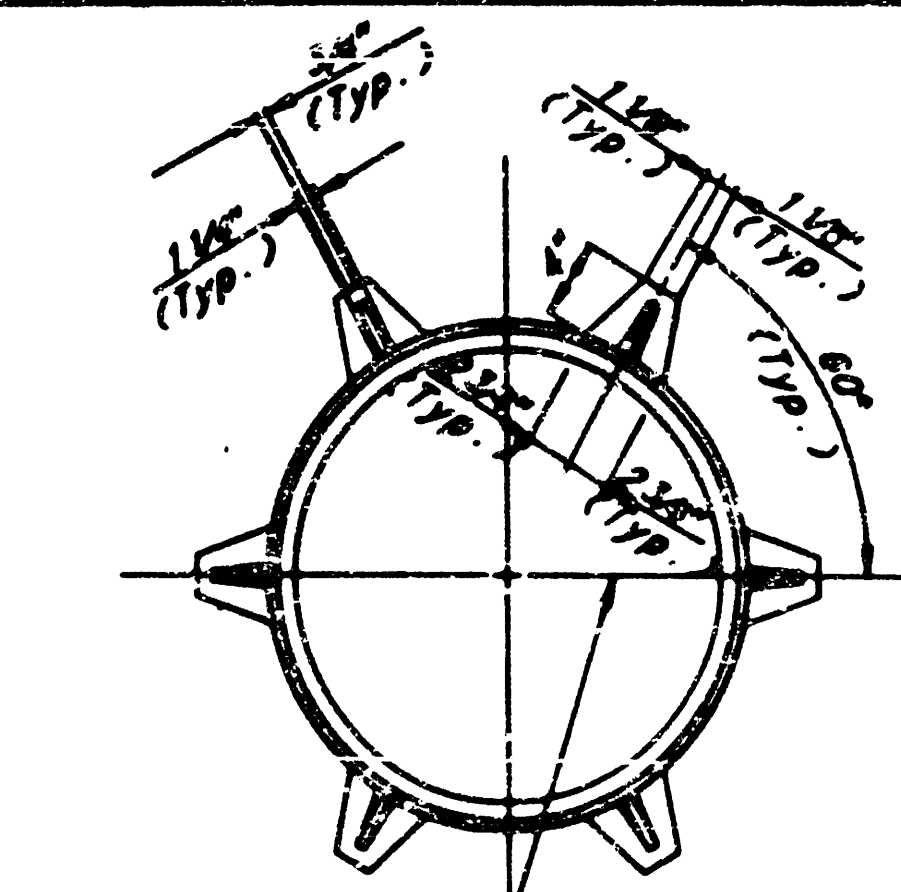
SECTION A-A

NOTE:
Slopes of Inlet Tops To Match Sidewalk Or
Parking Slopes Within Limits Indicated.

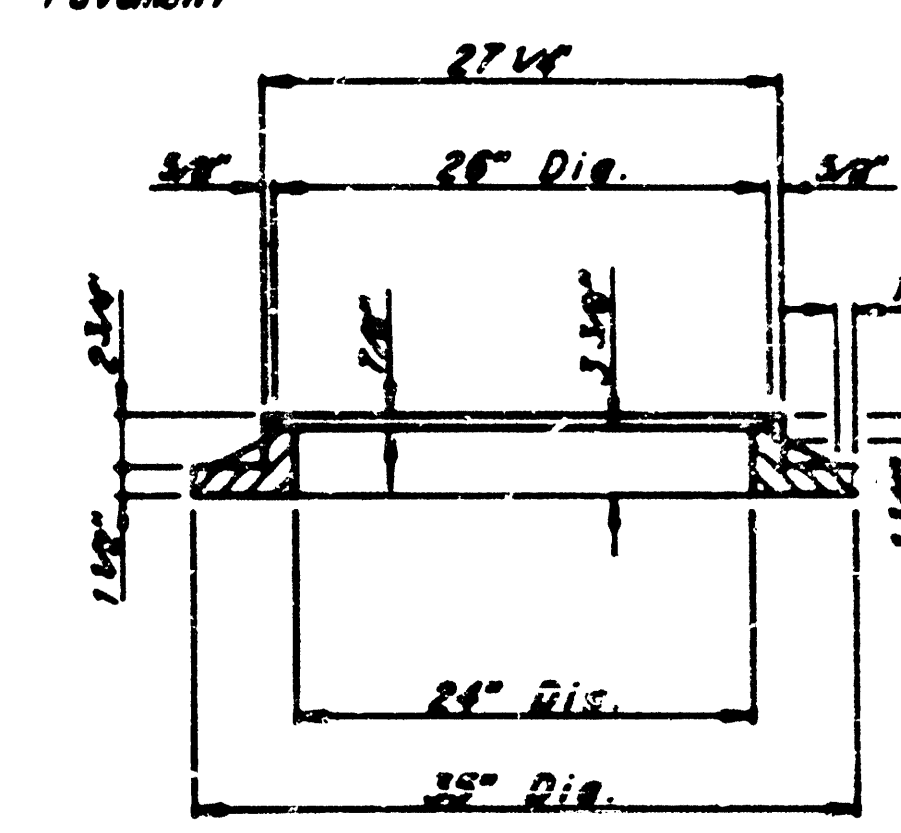


TYPICAL INLET SECTION AT CENTER WALL
(MASONRY WALLS)

* A center wall opening shall be provided by means of a section of reinforced concrete pipe. See Case I and Case II Below.

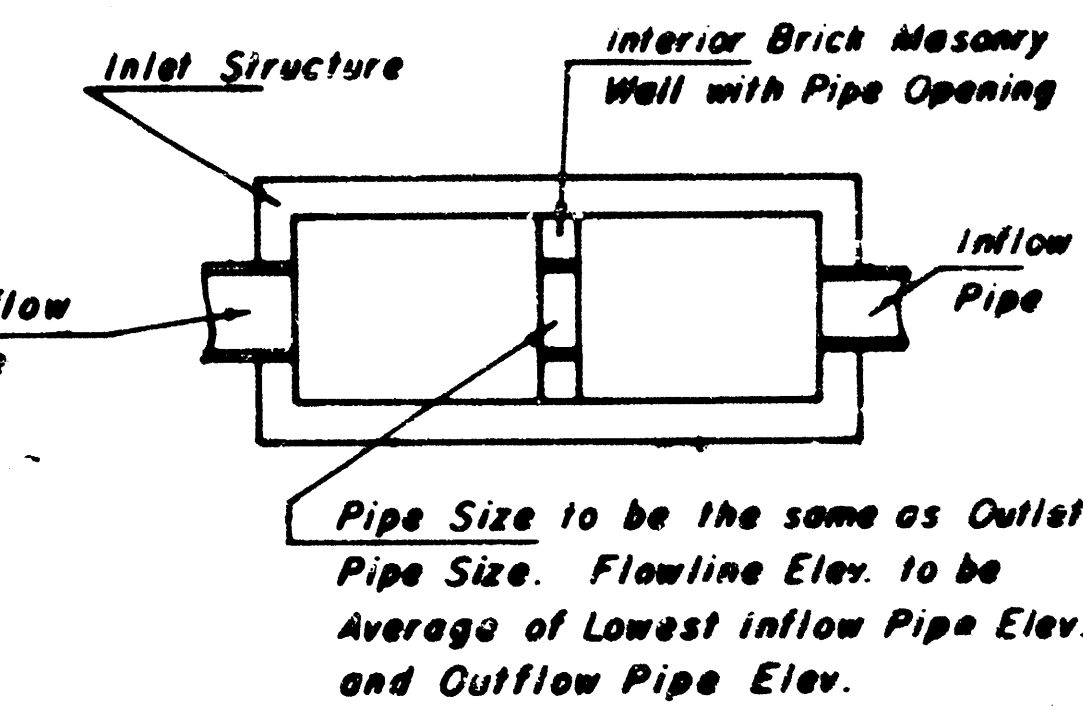


Position Ring such that this line is parallel with C of Pavement

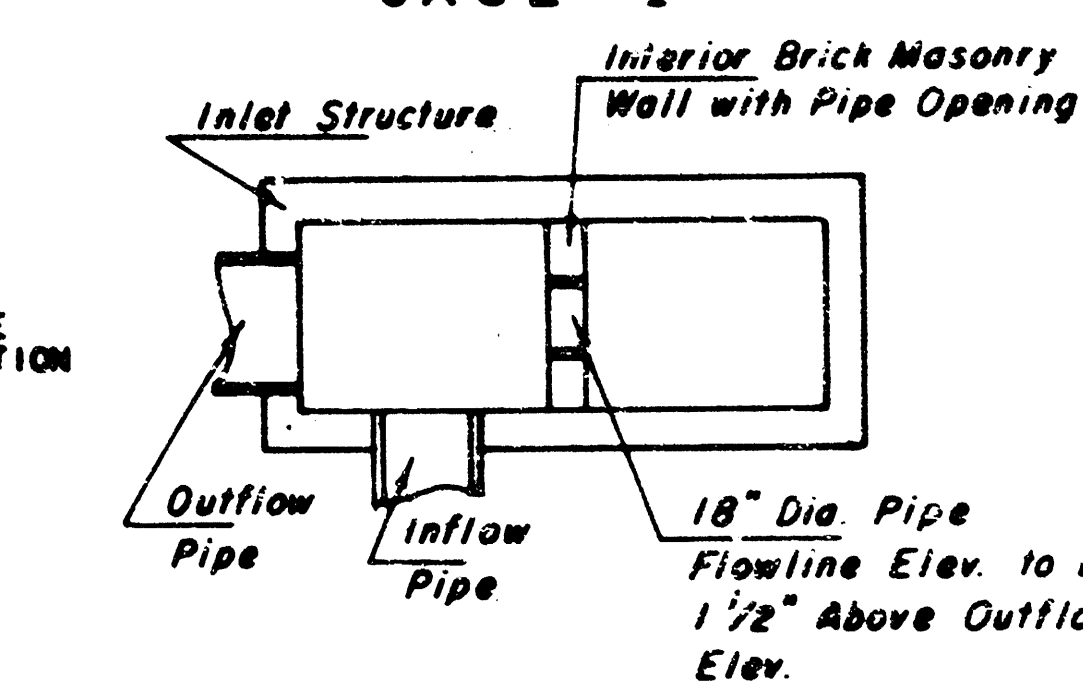


CAST IRON INLET RING
Wt. - 180 lbs.

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 those Cases not shown here.

SLAB AND FLOOR REINFORCING											
		W-4' - 6"		W-5' - 6"		W-6' - 6"		W-7' - 6"		W-8' - 6"	
MARK	SIZE	NO.	LENGTH	NO.	LENGTH	NO.	LENGTH	NO.	LENGTH	NO.	LENGTH
a1	#4	13	6' - 7 1/4"	13	8' - 7 1/4"	13	10' - 7 1/4"	13	12' - 7 1/4"	13	14' - 7 1/4"
a2	#4	2	6' - 0"	2	8' - 0"	2	10' - 0"	2	12' - 0"	2	14' - 0"
a3	#4	20	4' - 1"	20	5' - 1"	20	6' - 1"	20	7' - 1"	20	8' - 1"
b1	#4	1	9' - 8"	1	9' - 8"	1	9' - 8"	1	9' - 8"	1	9' - 8"
a22	#4	18	11' - 1"	24	11' - 1"	30	11' - 1"	36	11' - 1"	42	11' - 1"

* Field bend or cut Reinforcing as required for clearance
① 4(N1-8") + 4 (N1-8") Rounded down to nearest 0.5"
② 40-4(N1-16") ③ N1-8"

STANDARD CURB INLET PRECAST TOPS			
W	PRE-CAST TOP SIZE	SIDE OR INTERIOR WALL PIPE SIZE	CU. YD. CONC.
4'-4"	3'-8" x 11'-4" x 7 1/2"	21" & SMALLER	0.83 ±
5'-4"	4'-8" x 11'-4" x 7 1/2"	24" & 30"	1.08 ±
6'-4"	5'-8" x 11'-4" x 7 1/2"	36" & 42"	1.35 ±
7'-4"	6'-8" x 11'-4" x 7 1/2"	48" & 54"	1.61 ±
8'-4"	7'-8" x 11'-4" x 7 1/2"	60" & 66"	1.87 ±

REVISED 12-5-88

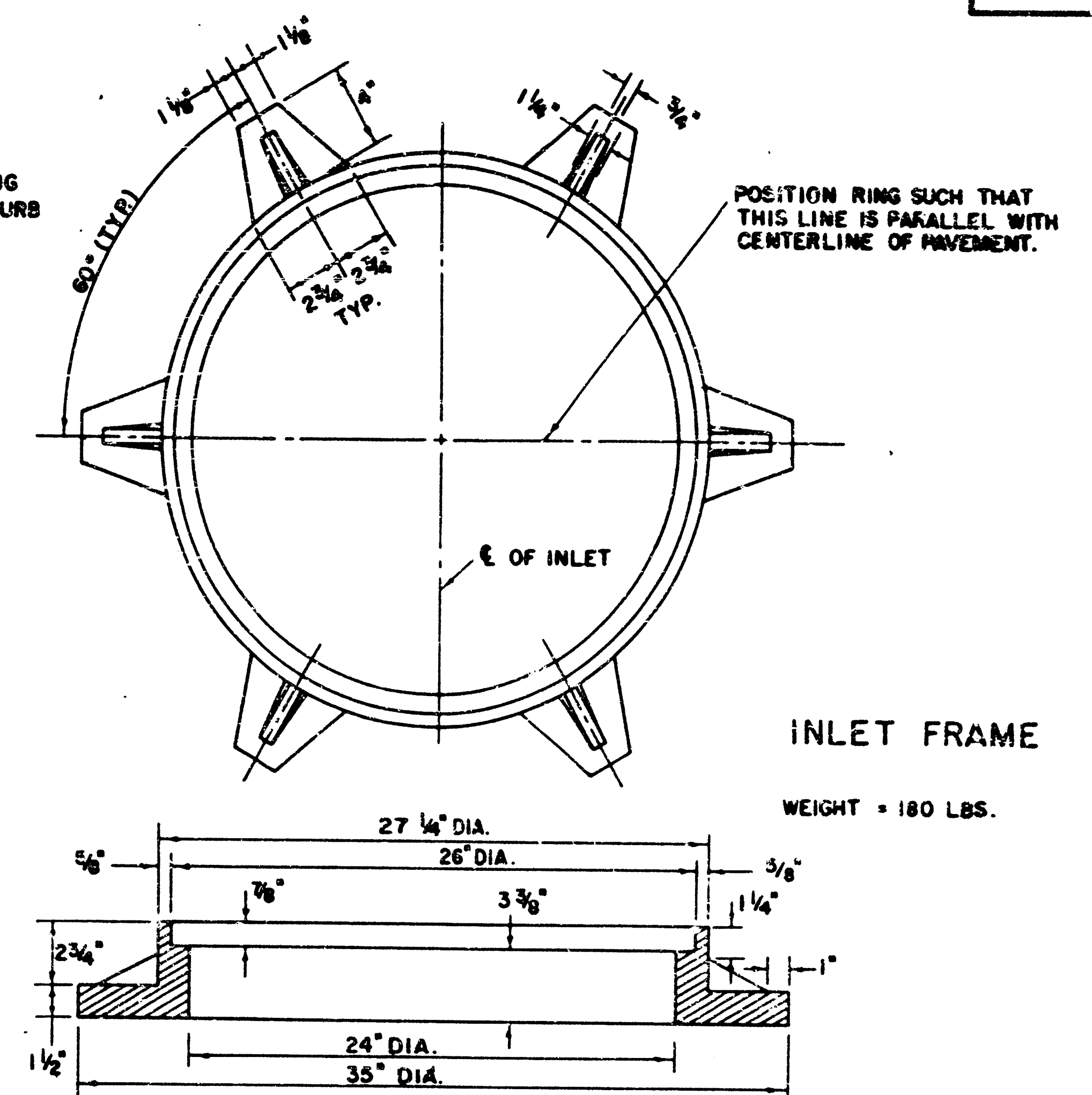
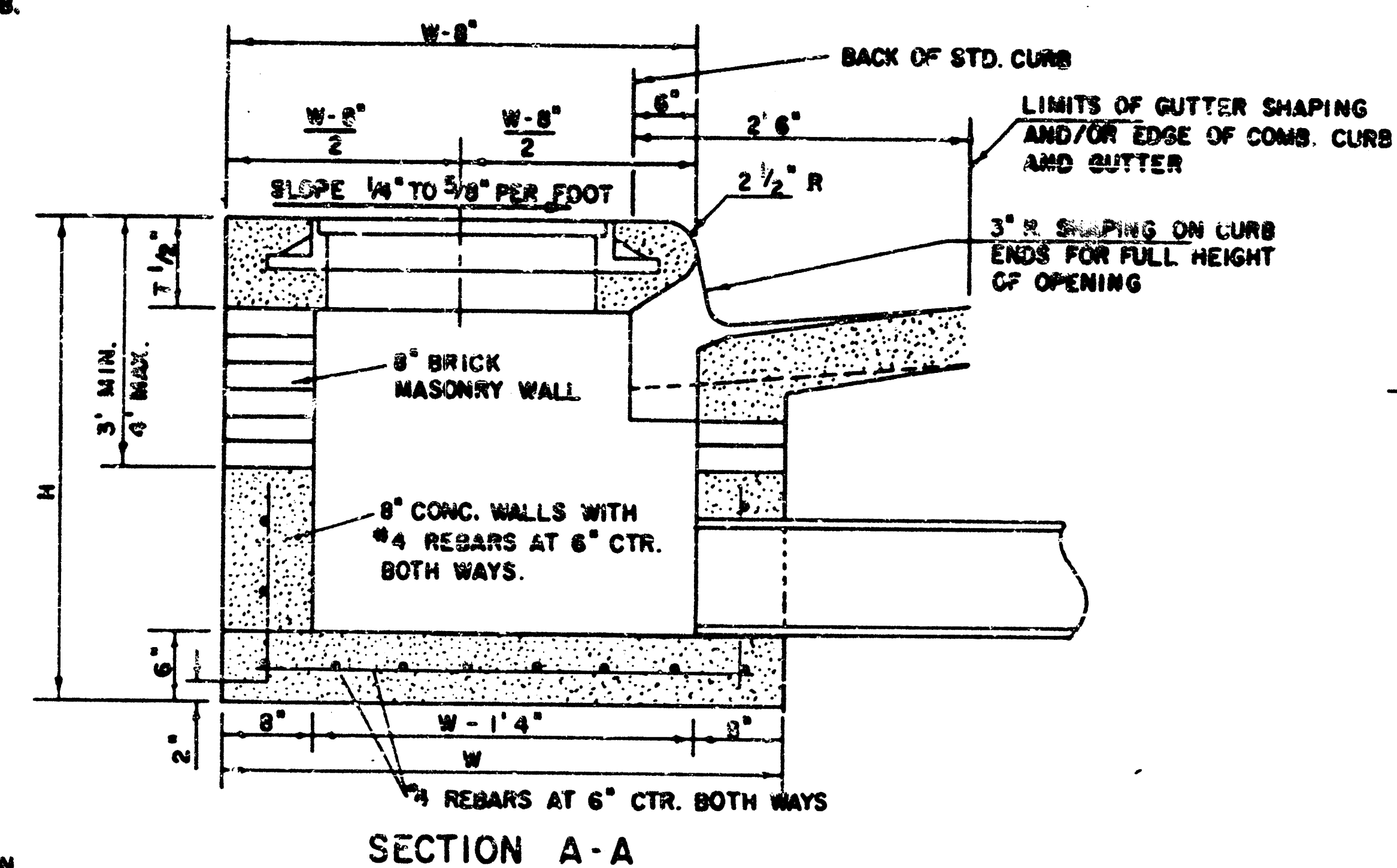
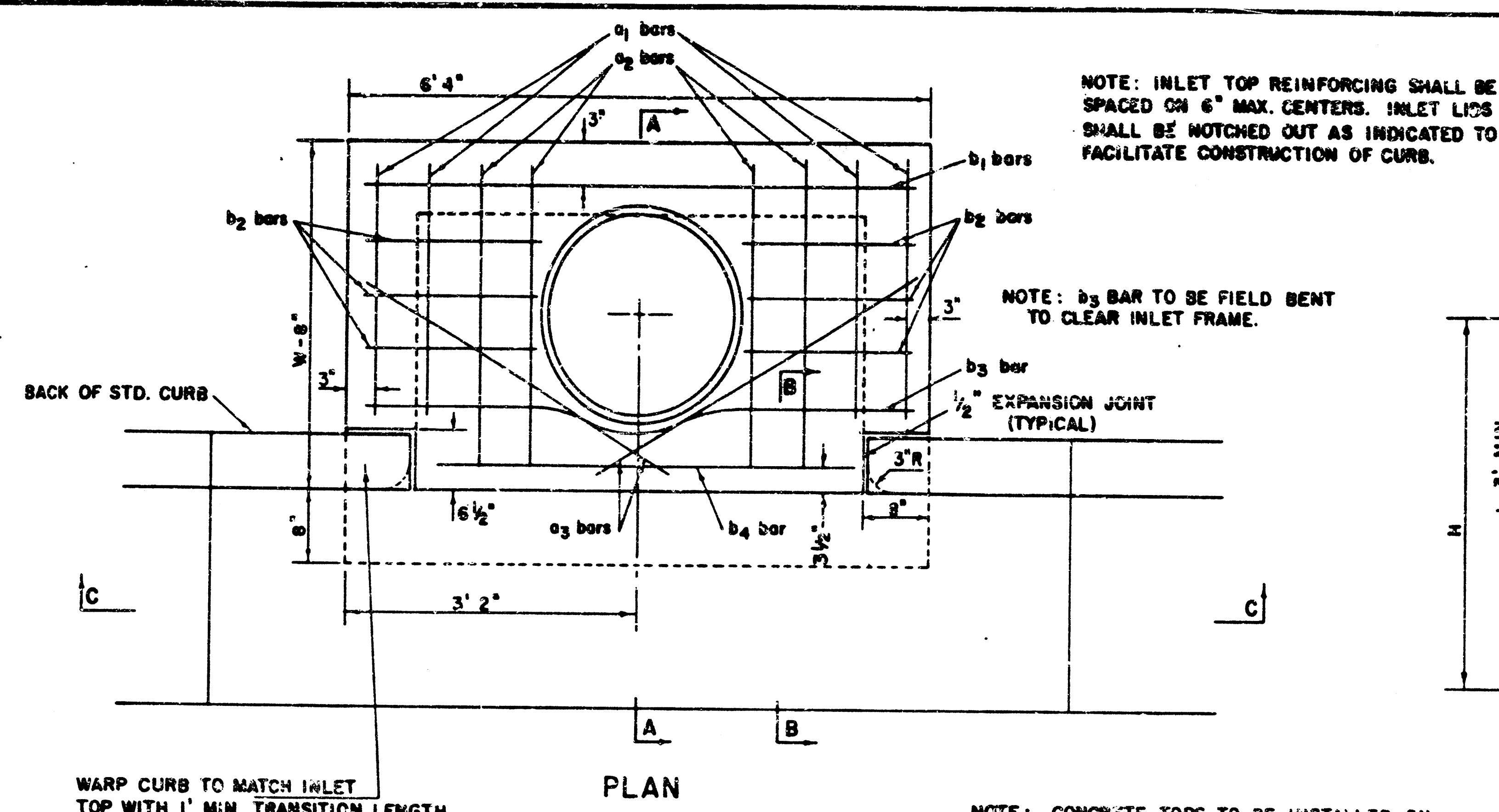
REVISED 10-21-84

STANDARD TYPE 1A
CURB INLET
INLET OPENING = 8" x 10' - 0"

WICHITA, KANSAS

Designed by: B.E. F.J.S. 4889 Checked by: J.M.D.
Drawn by: J.M.D. Date: Nov., 1984 Job No. 6

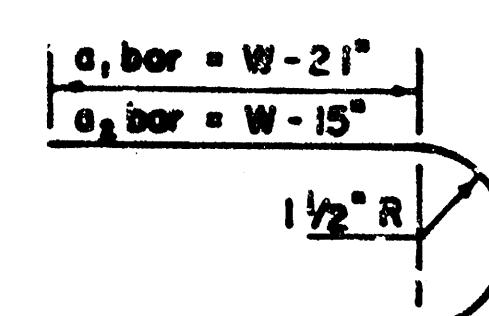
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STEEL SCHEDULE													
BAR	a ₁	a ₂	a ₃	b ₁					b ₂	b ₃	b ₄	WT. LBS.	
NUMBER	1	4	2	1	3	5	7	9	6	1	1		
SIZE	"4	"4	"4	"4	"4	"4	"4	"4	"4	"4	"6		
LENGTH	W=4'4"	5'7"	6'7"	4'0"	6'1"	-	-	-	-	1'9"	6'2"	4'8"	60±
	W=5'4"	7'7"	8'7"	5'0"	-	6'1"	-	-	-	1'9"	6'2"	4'8"	81±
	W=5'4"	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: #3 BARS TO BE PLACED APPROX. 2" BELOW TOP OF INLET COVER.

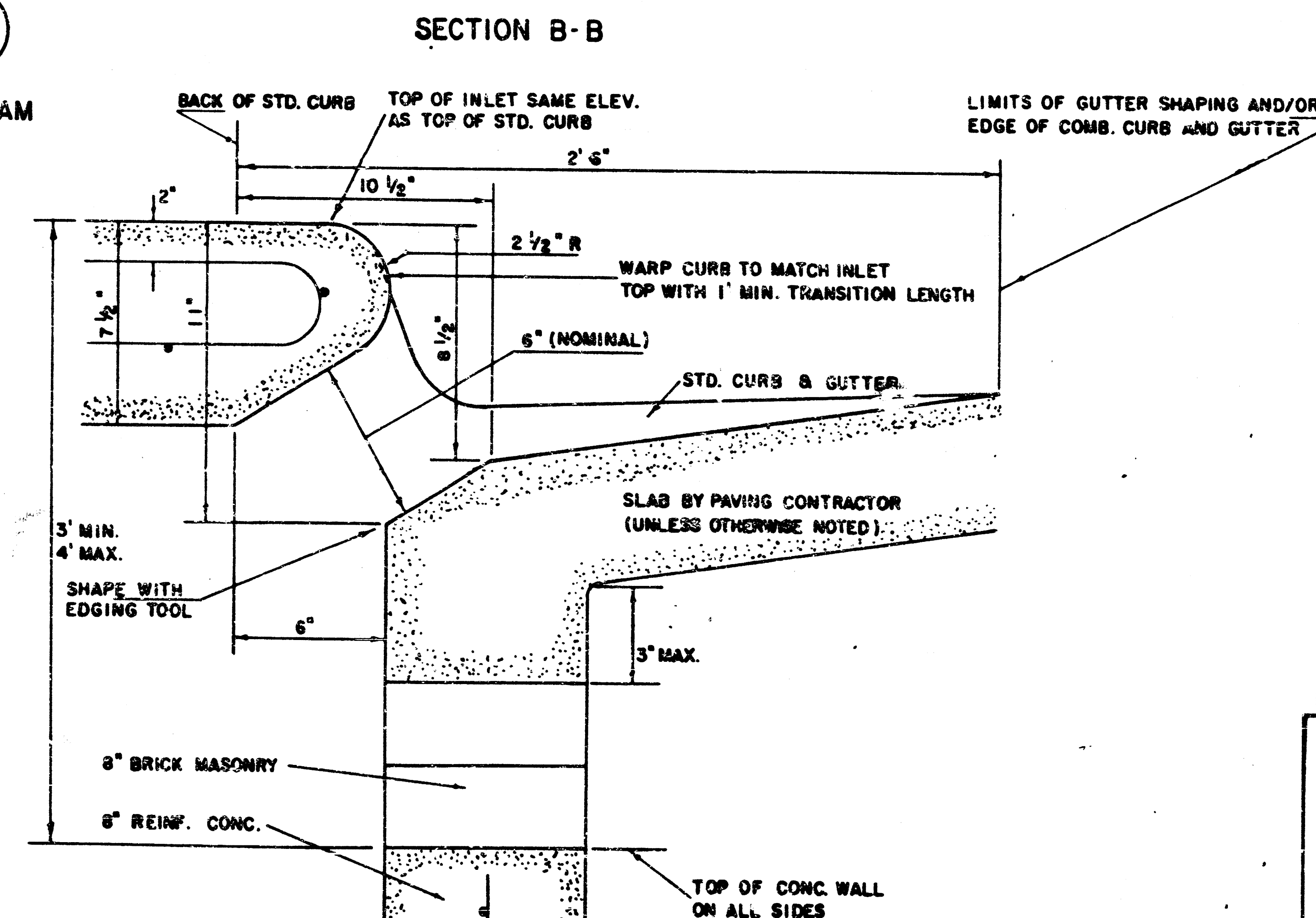
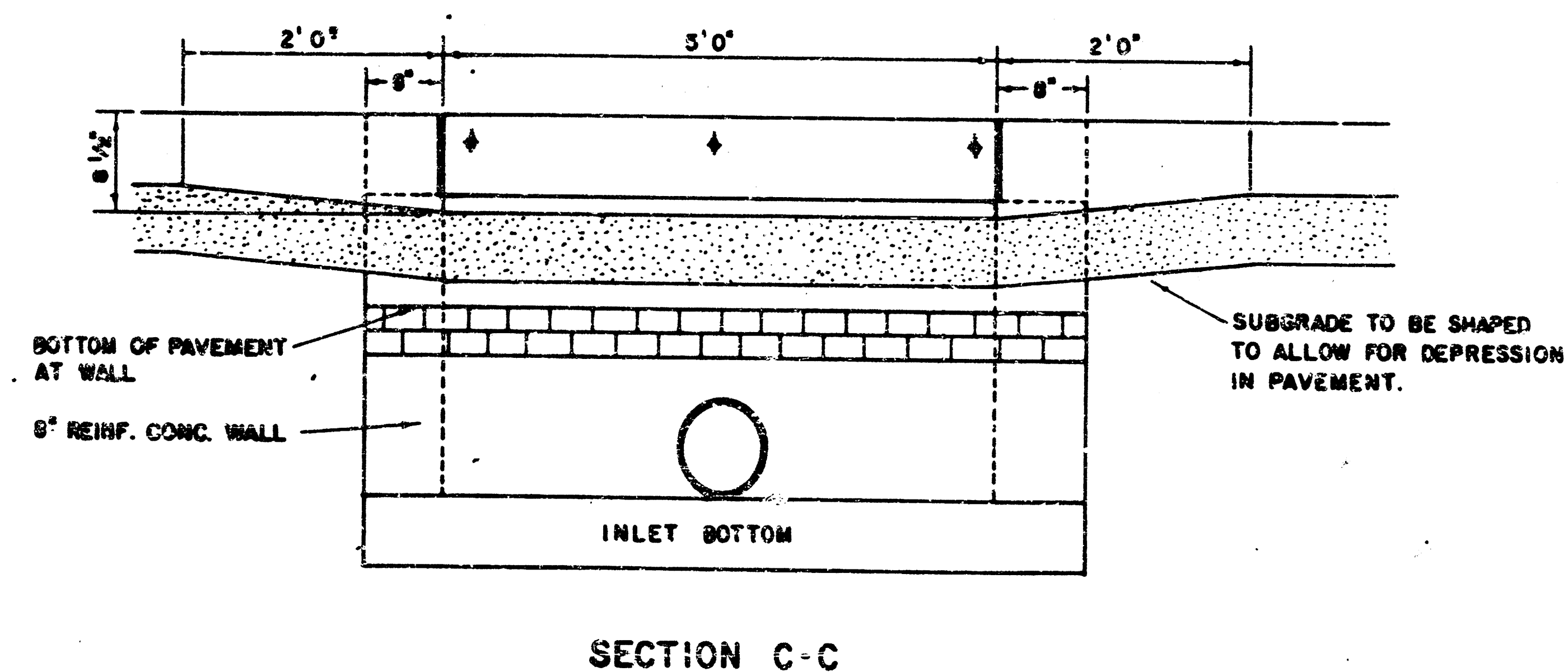
STANDARD CURB INLET PRECAST TOPS				
W	PRE-CAST TOP SIZE		PIPE SIZE	CU. YD. CONC.
4' 4"	5' 6"	6' 4"	7' 2" & SMALLER	0.38 ±
5' 4"	6' 6"	6' 4"	24" & 30"	0.51 ±
6' 4"	5' 6"	6' 4"	36" & 42"	0.64 ±
7' 4"	6' 6"	6' 4"	7' 2" & 36"	0.77 ±
8' 4"	7' 6"	6' 4"	48" & 66"	0.90 ±



NOTE CONTRACTOR SHALL HAVE THE OPTION OF CONSTRUCTING 8" BRICK MASONRY WALLS BETWEEN THE CONCRETE INLET BASE AND TOP ON THIS INLET WHEN W = 8' 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.

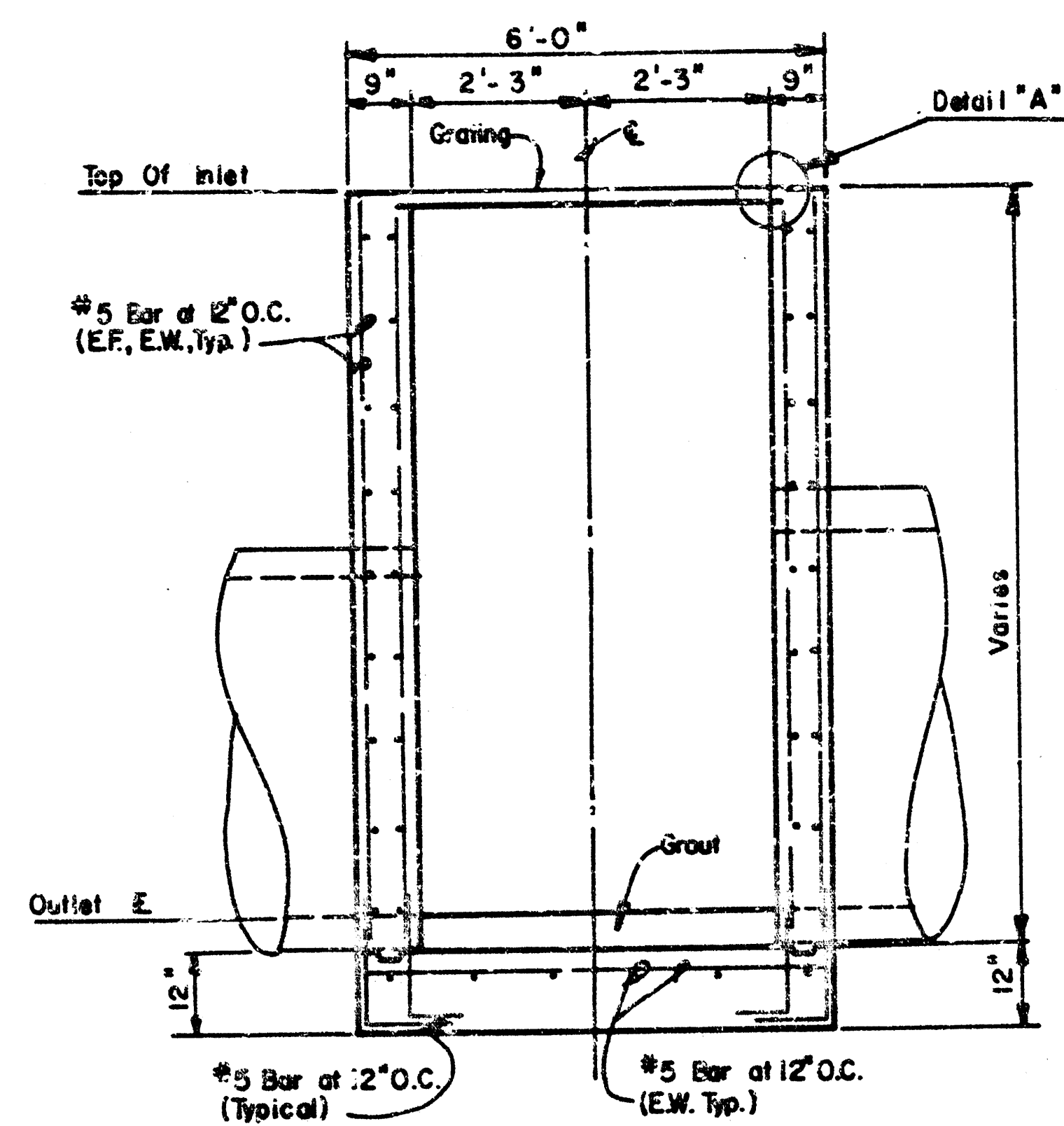


REVISED 12-21-1984

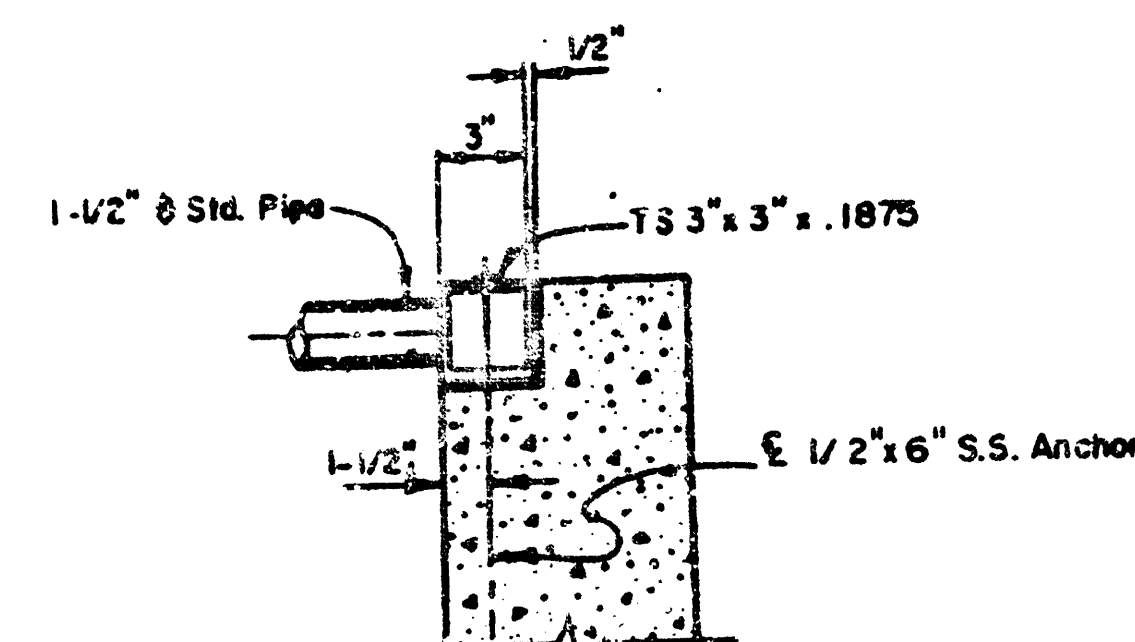
DETAIL STANDARD TYPE 1 CURB INLET

CITY OF WICHITA, KANSAS
INLET OPENING = 6" x 5'0"

JUNE 1984

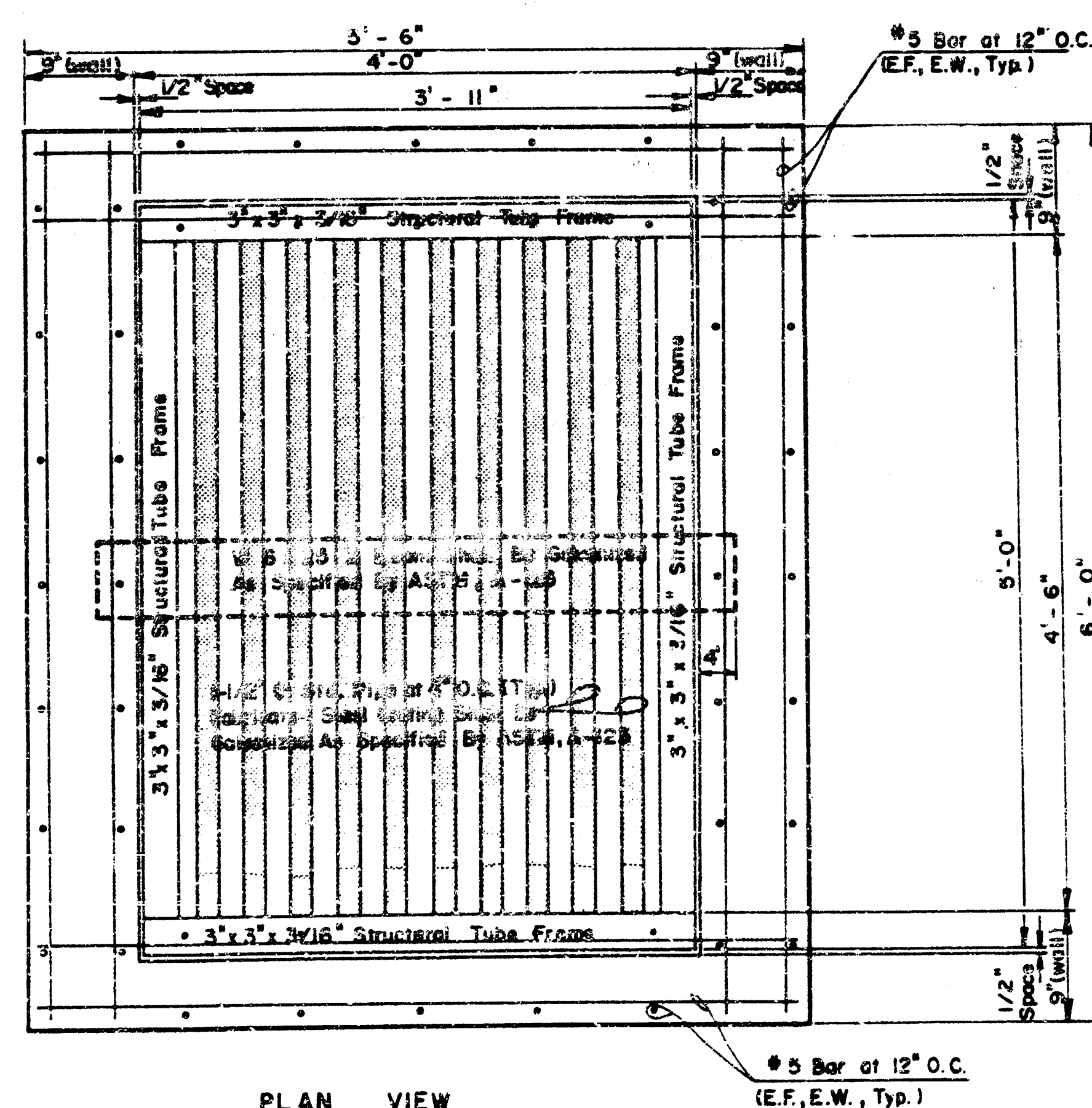


REINFORCED CONCRETE AREA INLET

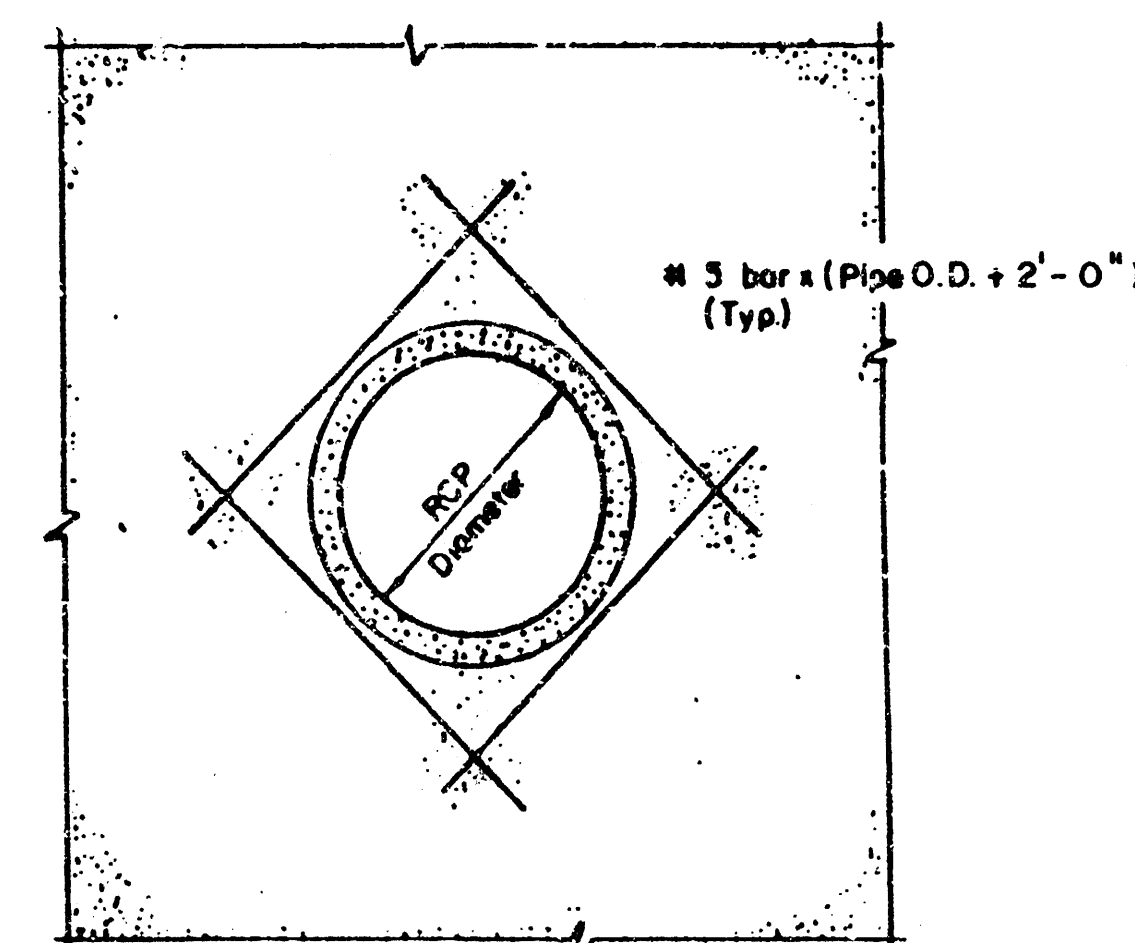


NOTE:
Fabricated Steel Grating Shall
Be Galvanized As Specified By ASTM A123

DETAIL "A"



PLAN VIEW

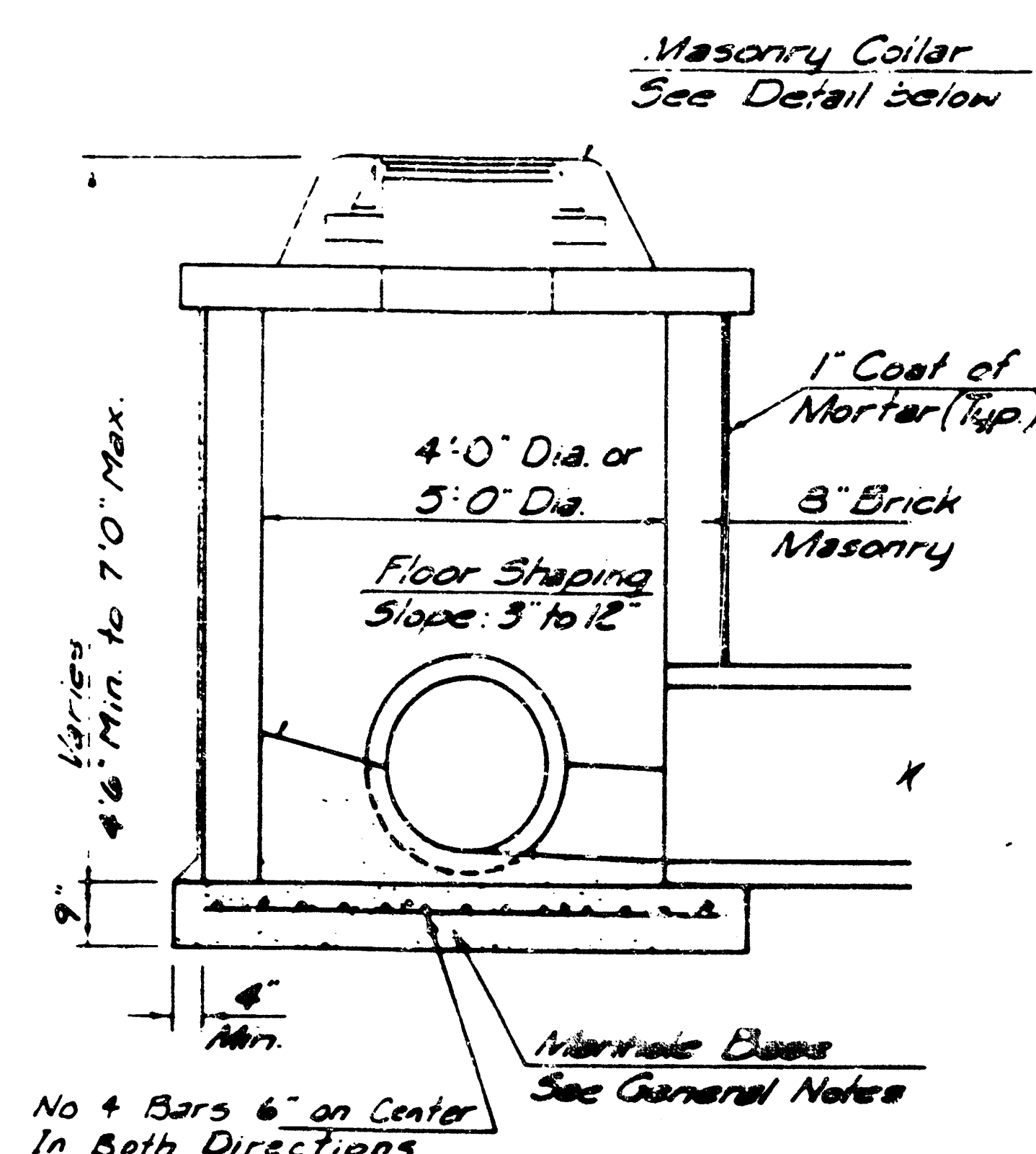


TYPICAL REINFORCING AT PIPE

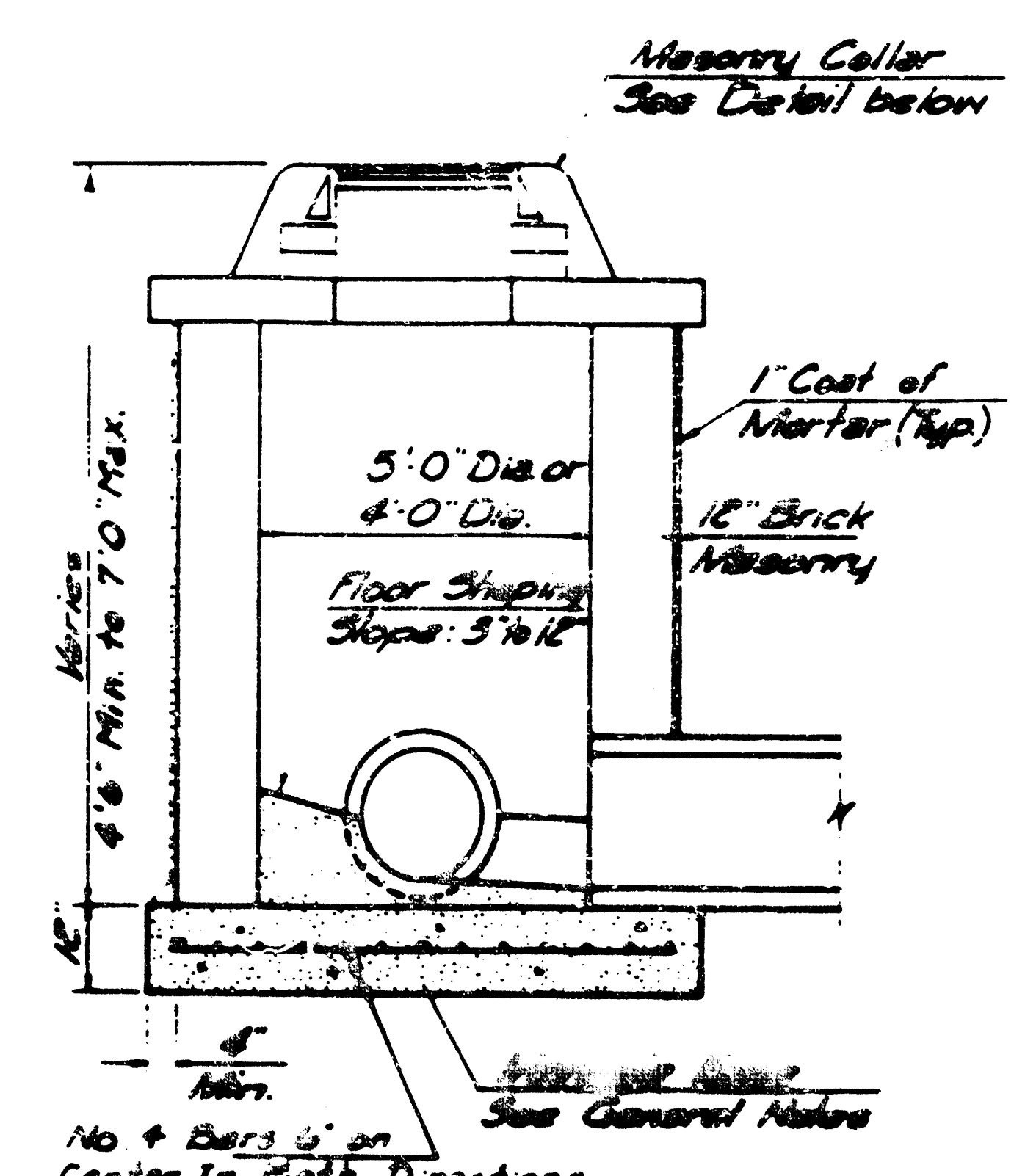
NOTE: Cut reinforcing as required to clear RCP

	REINFORCED CONCRETE AREA INLET		Design
			Drawn by
			Checked by
			Date
MID-KANSAS ENGINEERING CONSULTANTS PA 3500 NORTH ROCK ROAD BUILDING #800 WICHITA, KANSAS 67226		636-5566	Sheet 8 of 12

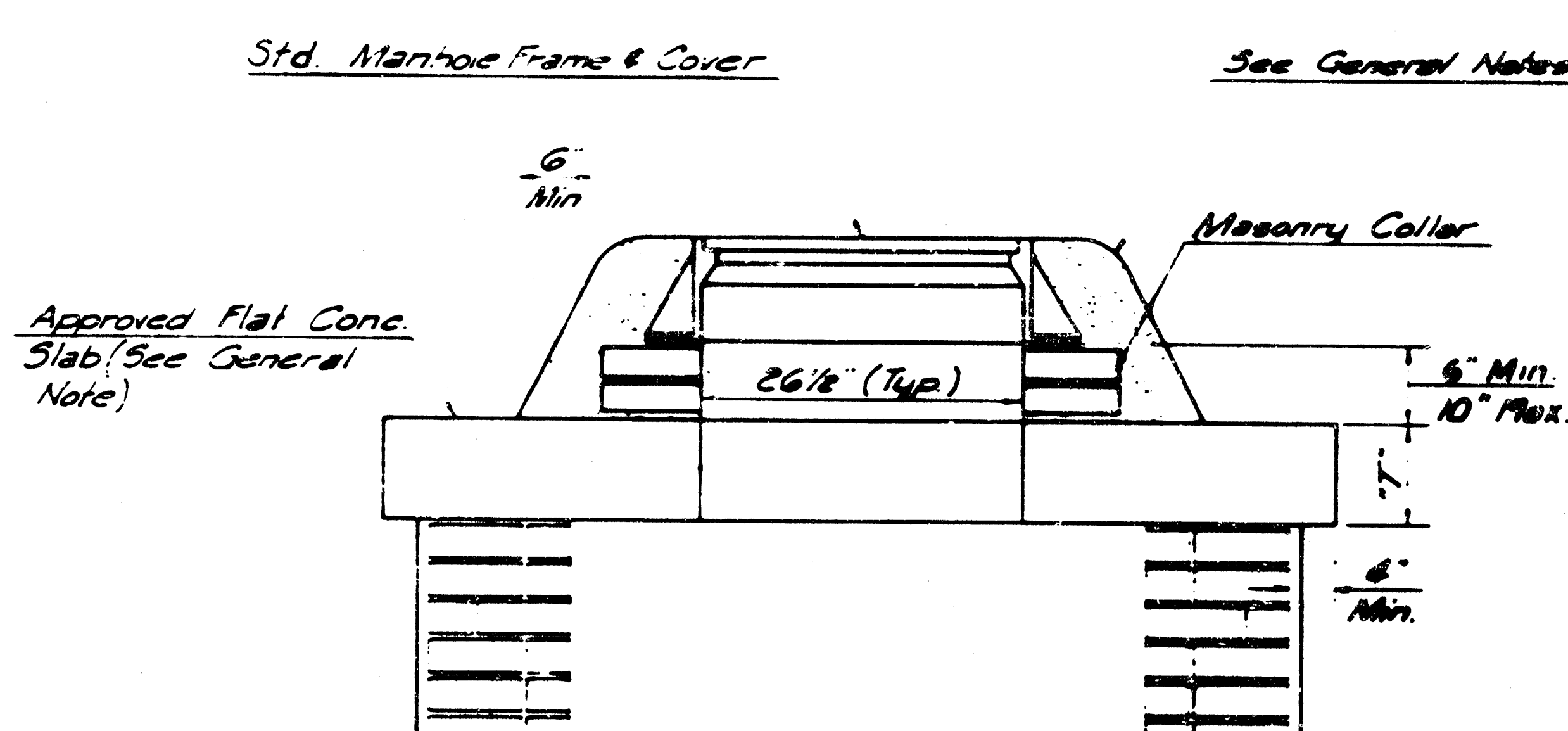
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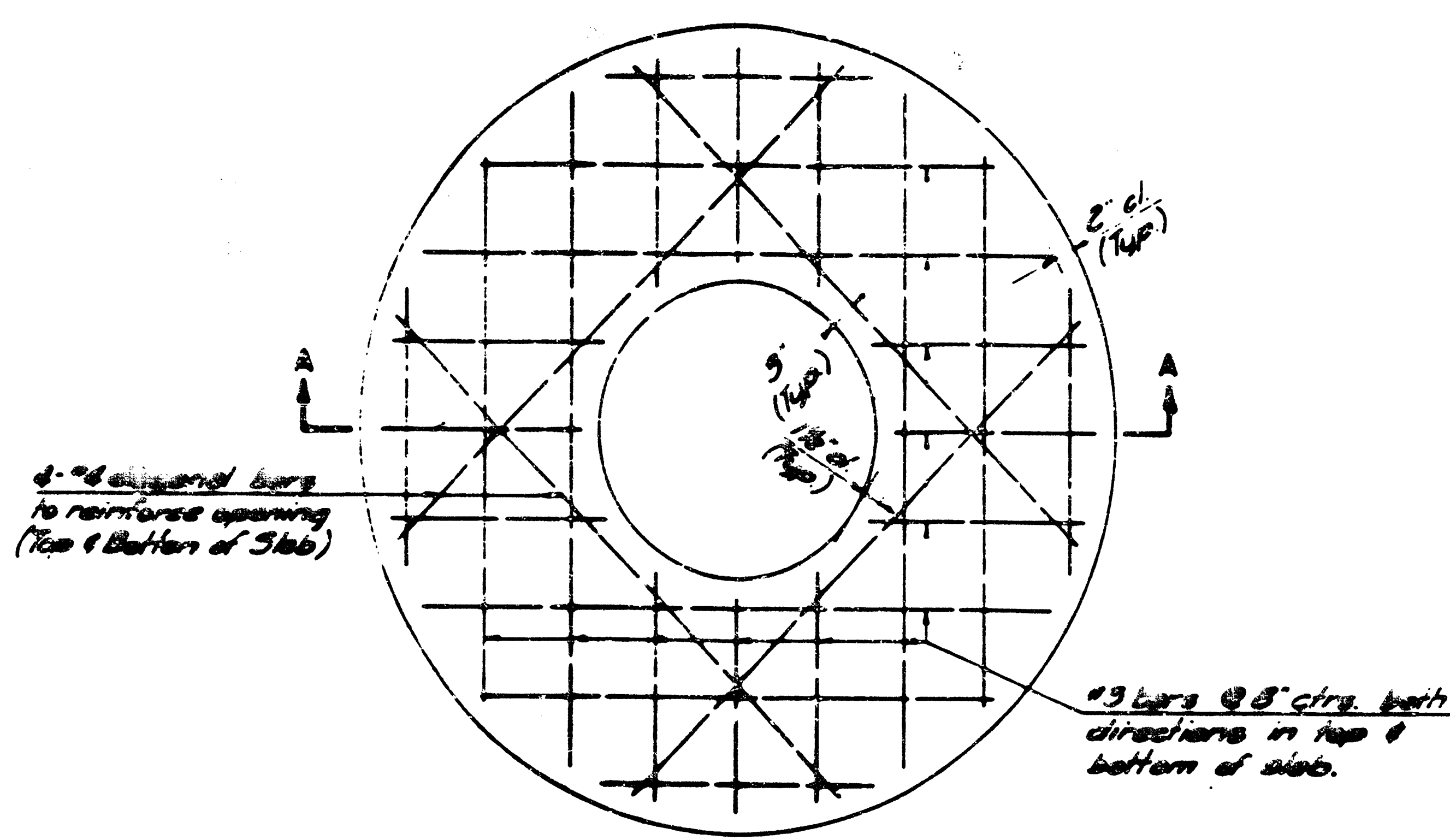
SHALLOW TYPE "A" MANHOLE



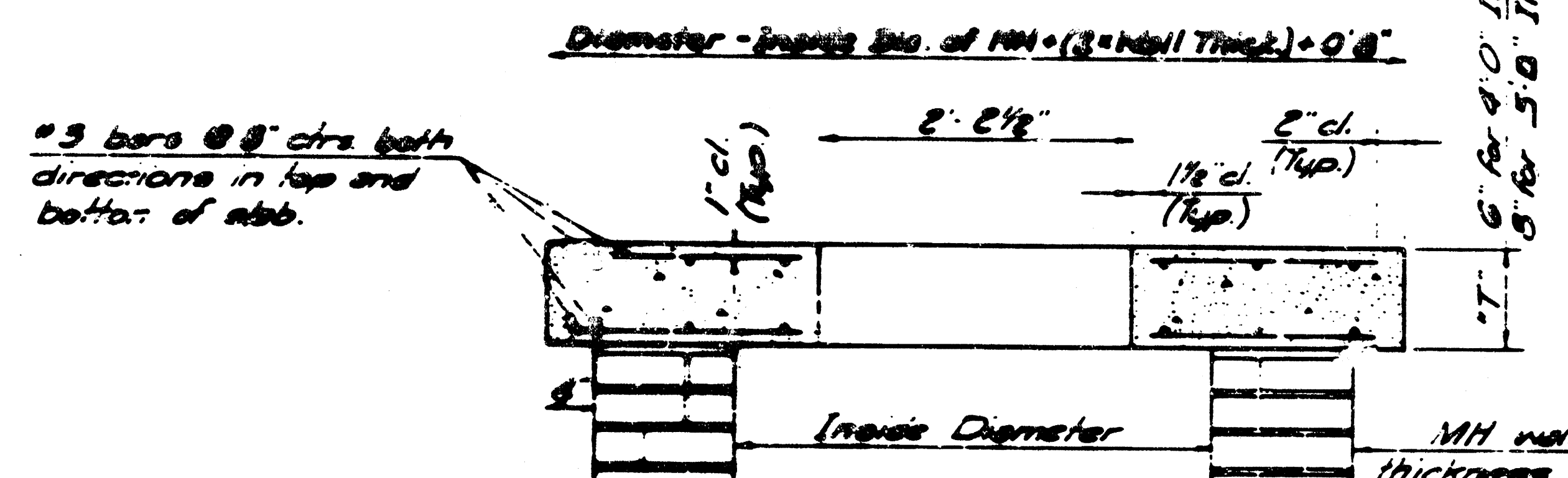
SHALLOW TYPE "B" MANHOLE



MASONRY COLLAR DETAIL

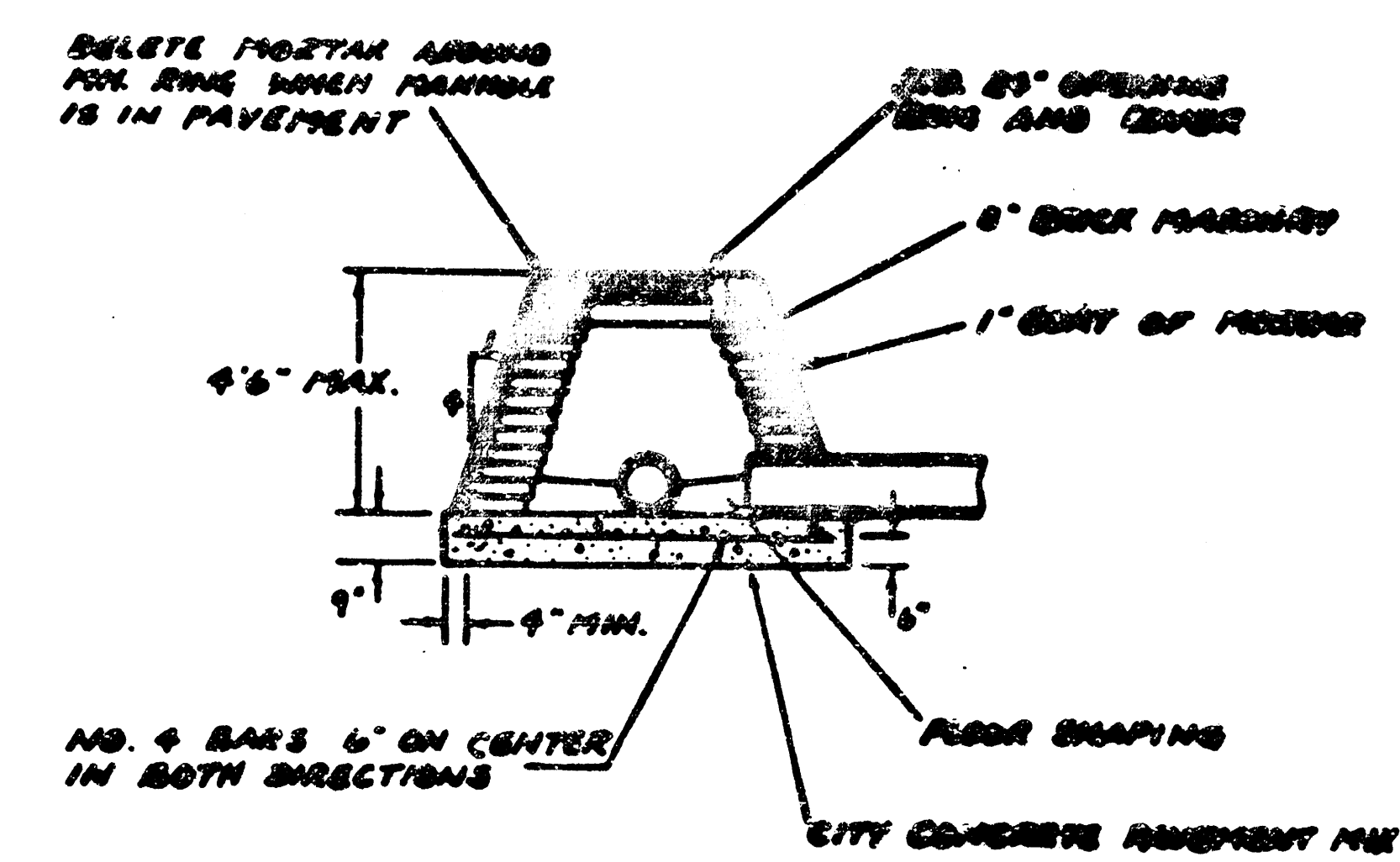


PLAN

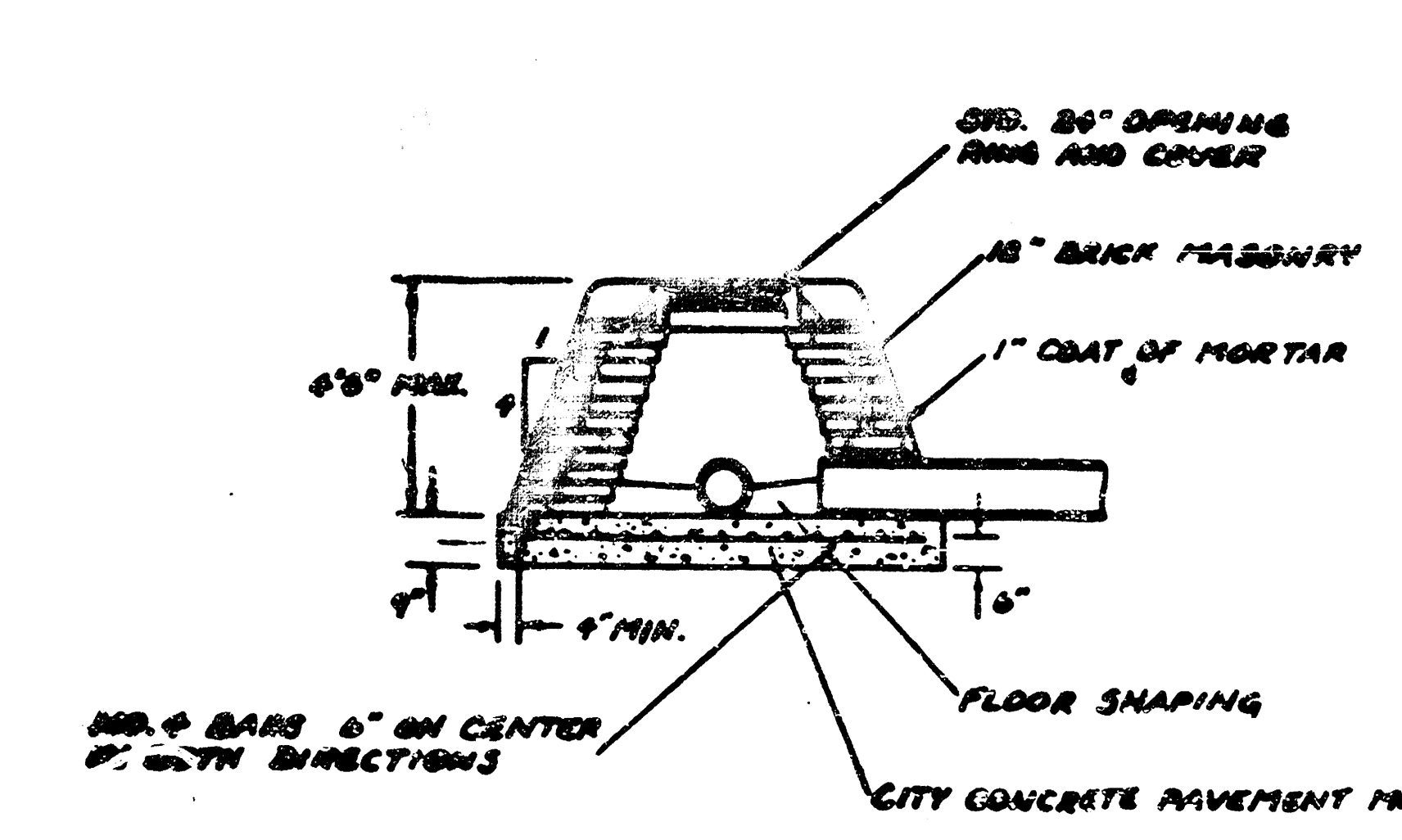


SECTION A-A

FLAT CONCRETE SLAB DETAILS



SPECIAL SHALLOW TYPE "A" MANHOLE



SPECIAL SHALLOW TYPE "B" MANHOLE

- GENERAL NOTES
1. MATERIAL USED IN MANHOLE CONSTRUCTION SHALL CONFORM TO THE REQUIREMENTS OF THE CITY STANDARD SPECIFICATIONS FOR CONCRETE MANHOLES. THE CITY STANDARD SPECIFICATIONS FOR CONCRETE MANHOLES SHALL BE USED IN THE CITY STANDARD SPECIFICATIONS FOR CONCRETE MANHOLES. THE CITY STANDARD SPECIFICATIONS FOR CONCRETE MANHOLES SHALL BE USED IN THE CITY STANDARD SPECIFICATIONS FOR CONCRETE MANHOLES.
 2. REINFORCING STEEL SHALL BE INSTALLED IN THE MANHOLE WALLS AND SHALL CONFORM TO THE CITY STANDARD SPECIFICATIONS FOR CONCRETE MANHOLES. THE REINFORCING STEEL SHALL BE INSTALLED IN THE MANHOLE WALLS AND SHALL CONFORM TO THE CITY STANDARD SPECIFICATIONS FOR CONCRETE MANHOLES.
 3. THE PLACING OF ALL MANHOLES SHALL BE SUPERVISED BY THE CITY ENGINEER. THE PLACING OF ALL MANHOLES SHALL BE SUPERVISED BY THE CITY ENGINEER. THE PLACING OF ALL MANHOLES SHALL BE SUPERVISED BY THE CITY ENGINEER.
 4. PIPES INSTALLED WITHIN THE EXCAVATION MADE FOR THE MANHOLE SHALL BE CONFORM TO THE CITY STANDARD SPECIFICATIONS FOR CONCRETE MANHOLES. THE PIPES INSTALLED WITHIN THE EXCAVATION MADE FOR THE MANHOLE SHALL BE CONFORM TO THE CITY STANDARD SPECIFICATIONS FOR CONCRETE MANHOLES.
 5. MANHOLE CURB CASTINGS AND MANHOLE FRAME CASTINGS SHALL CONFORM TO THE REQUIREMENTS AS INDICATED IN THE STANDARD SPECIFICATIONS AND AS SHOWN IN THE STANDARD DETAIL DRAWINGS.
 6. THE GRADING OF THE PIPES SHALL NEVER BE SET LOWER THAN THE BOTTOM OF THE OUTFLOWING PIPE.
 7. STANDARD SHALLOW MANHOLES TYPE "A" AND "B" SHALL BE PAID FOR AT THE UNIT PRICE BID PER EACH FOR THE TYPE AND DIAMETER INDICATED. STANDARD SPECIAL SHALLOW MANHOLES TYPE "A" AND "B" SHALL BE PAID FOR AT THE UNIT PRICE BID PER EACH FOR THE TYPE INDICATED. ALL STANDARD SHALLOW MANHOLE DIAMETERS WILL BE 4' UNLESS INDICATED OTHERWISE.

CITY OF WICHITA, KANSAS
STANDARD SHALLOW MANHOLES
TYPE "A" AND TYPE "B"

9	12
Designed by	Checked by
Drawn by	Scale

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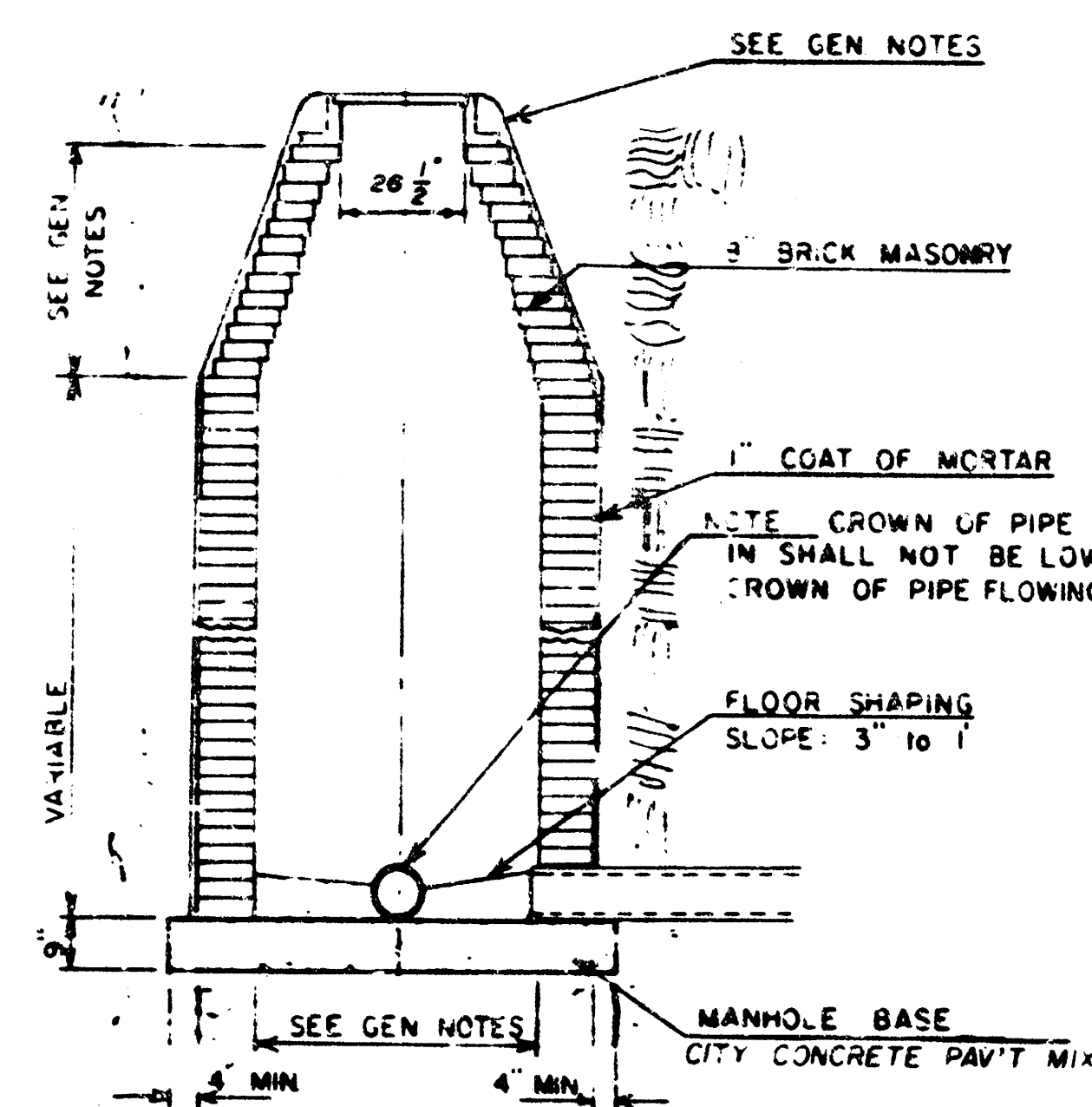
SEWER APPURTENANCES DETAILS

REVISED SEPTEMBER 1980
REVISED DECEMBER 1981

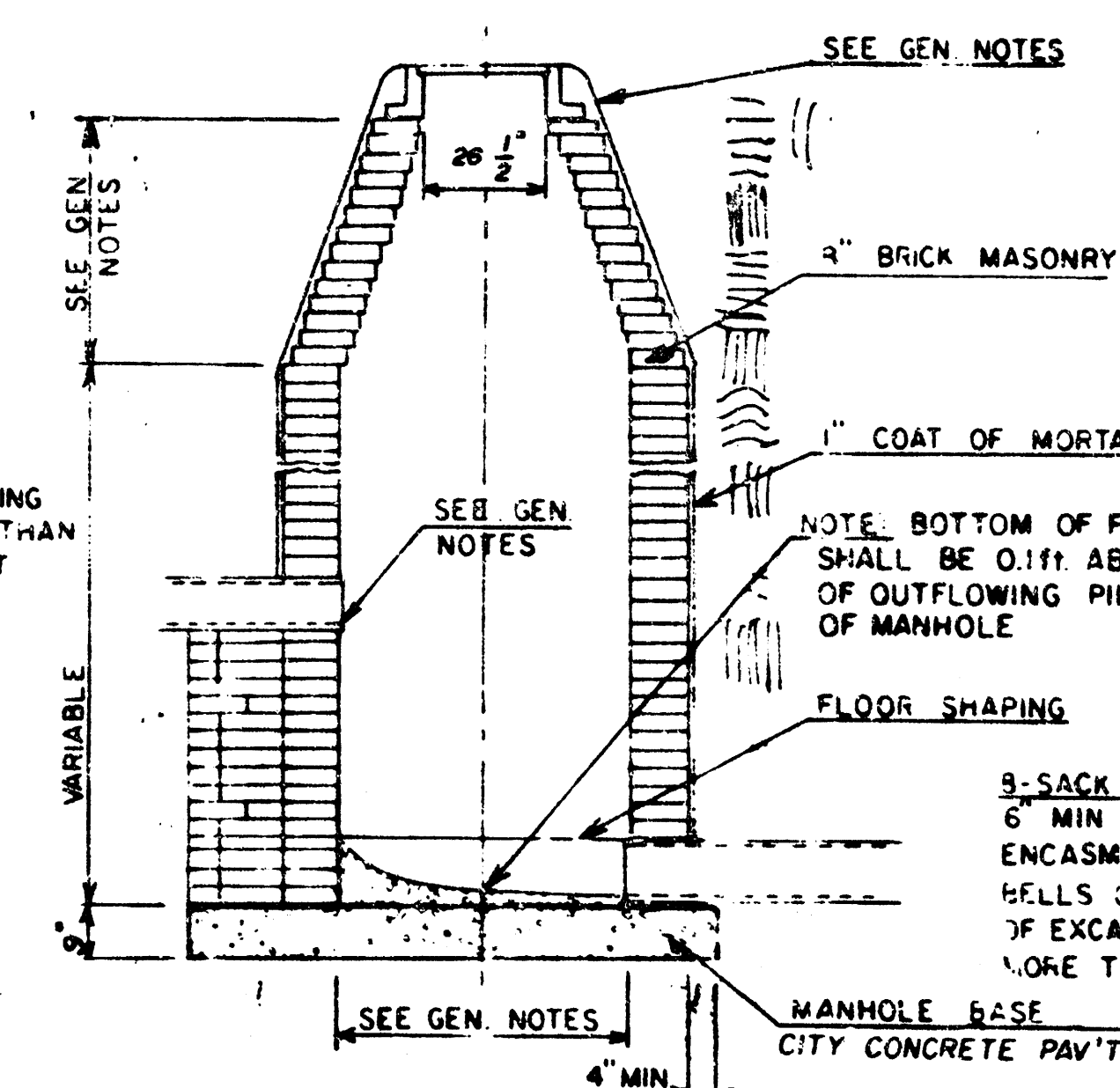
ADOPTED AS STANDARD DESIGN
BY

CITY of WICHITA, KANSAS

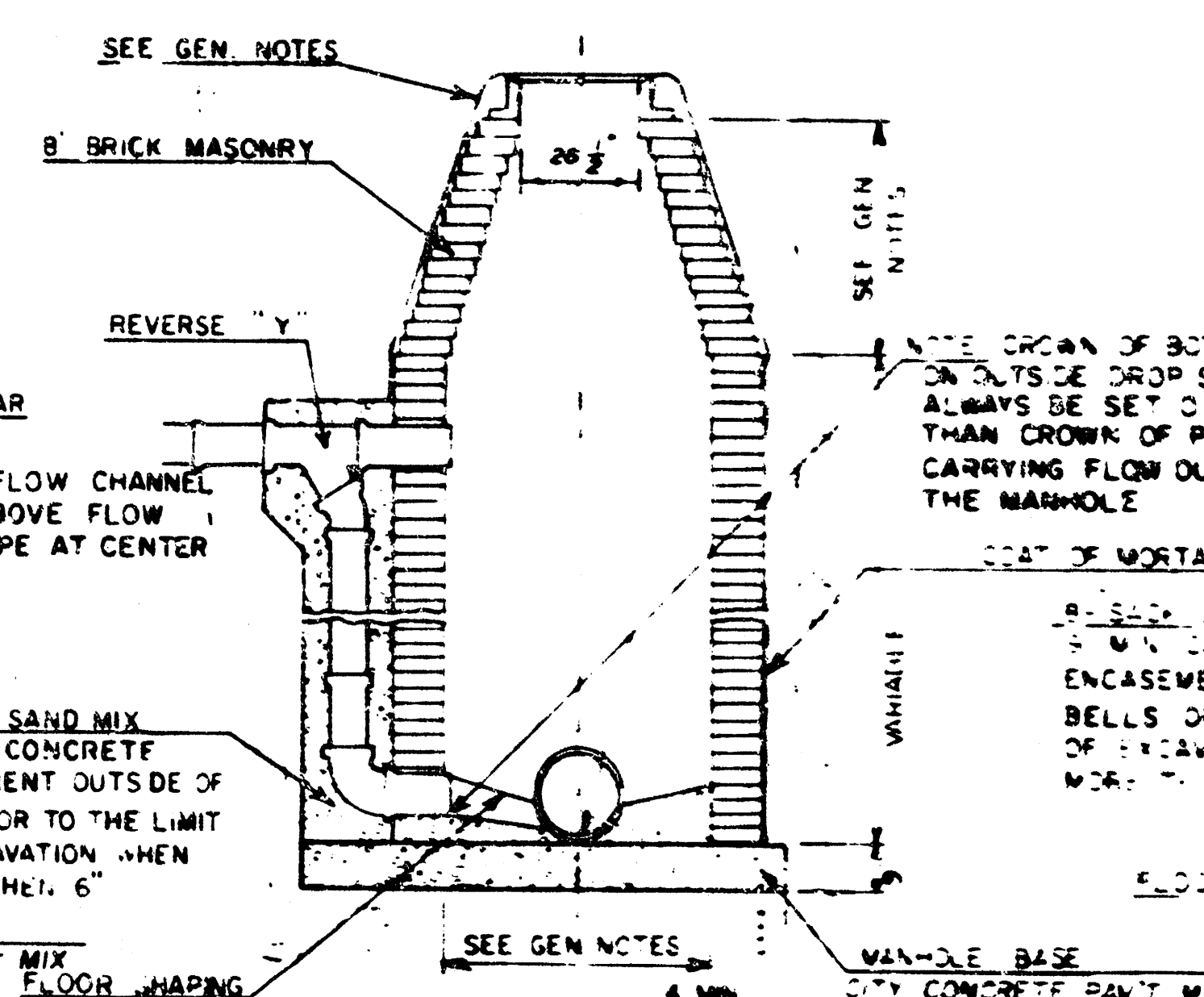
TYPE "A" MANHOLE



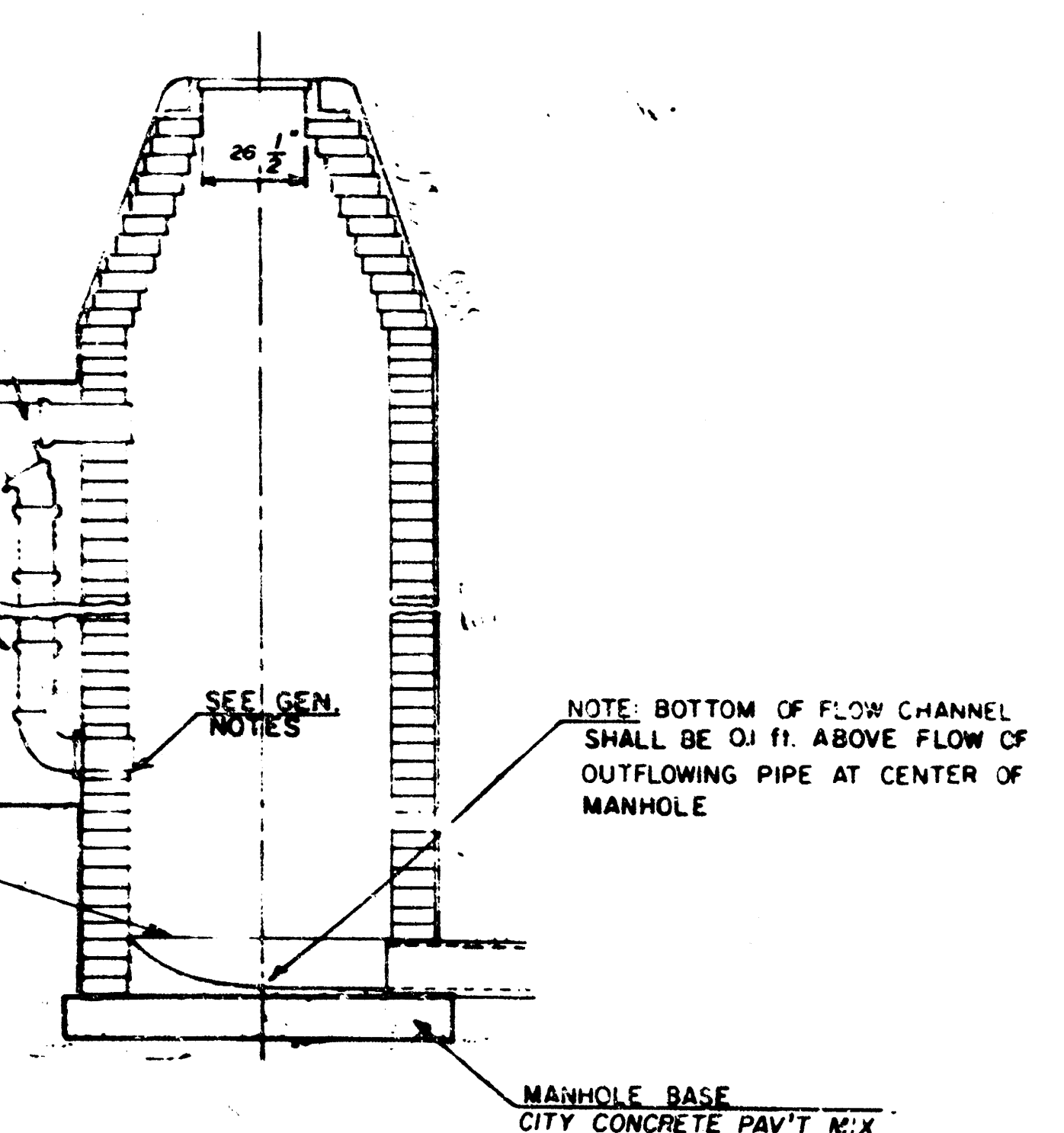
TYPE "A" INSIDE DROP MANHOLE



TYPE "A" OUTSIDE DROP MANHOLE



DETAIL OF OUTSIDE DROP
CONSTRUCTED ON EXISTING MANHOLE



- GENERAL NOTES
1. MORTAR USED IN MASONRY CONSTRUCTION SHALL CONTAIN 8 SACKS OF CEMENT PER CUBIC YARD. CONCRETE USED IN MANHOLE BASES SHALL CONFORM TO THE REQUIREMENTS OF CONCRETE FOR CONCRETE PAVING CONSTRUCTION AS SPECIFIED IN THE CITY STANDARD PAVING SPECIFICATIONS USING CITY CONCRETE PAVEMENT MIX WITHOUT AIR ENTRAINING ADJUSTMENT. MORTAR SHALL BE PLACED AROUND THE MANHOLE RING AS SHOWN ON THE DRAWINGS. TYPE "A" MANHOLES ARE CONSTRUCTED IN UNPAVED AREAS. TYPE "A" MANHOLES CAN BE USED ON SEWERS UP TO 16" IN DEPTH WHEN THE MANHOLE IS NOT LOCATED WITHIN PUBLIC STREET PAVEMENT. MANHOLES CONSTRUCTED WHERE PIPE SIZES ARE SMALLER THAN 24" SHALL HAVE AN INSIDE DIAMETER OF 4'. MANHOLES CONSTRUCTED WHERE PIPE SIZES ARE 24" OR LARGER SHALL HAVE AN INSIDE DIAMETER OF 5'. THE HEIGHT OF THE CORNELLS ON 4' DIAMETER MANHOLES SHALL BE 4'. MANHOLES HAVING A DIAMETER OF 5' SHALL HAVE CORNELLS 6' IN HEIGHT. COMPLETED MANHOLE SHALL BE WITHOUT LEAKS AND WATER TIGHT.
 2. REINFORCING STEEL SHALL BE INSTALLED IN THE MANHOLE BASES AND SHALL CONSIST OF NO. 4 BARS PLACED AT 6" CENTERS IN BOTH DIRECTIONS. THE MANHOLE BASE REINFORCEMENT SHALL BE PLACED 6" ABOVE THE BOTTOM OF THE MANHOLE BASE. ALL COSTS FOR FURNISHING AND INSTALLING REINFORCING STEEL SHALL BE INCLUDED IN THE UNIT PRICE BID FOR THE MANHOLE.
 3. OPENINGS SHALL BE CUT INTO THE MANHOLE WALL WHEN OUTSIDE DROPS ARE CONSTRUCTED ON EXISTING MANHOLES. SUCH OPENINGS CUT INTO EXISTING MANHOLES SHALL BE AS SMALL AS PRACTICAL TO FACILITATE INSTALLING AND GROUTING THE NEW PIPE IN PLACE. WATERSTOP GASKETS SHALL BE USED WITH THE OPENING USING AN APPROVED NONSHRINK GROUT FOR THE FULL MANHOLE WALL THICKNESS. THE EXTERIOR OF THE COMPLETED CONNECTION SHALL BE SEALED WITH AN APPROVED BITUMINOUS COATING SUCH THAT THE CONNECTION WILL BE WATER TIGHT. FLOOR OF MANHOLE SHALL BE MODIFIED TO FORM NEW FLOW CHANNEL FOR THE NEW CONNECTION AS INDICATED BY THE DRAWING. THE NEW FLOW CHANNEL FOR THE NEW CONNECTION ON SUCH OUTSIDE DROP CONNECTIONS SHALL NOT EXCEED 4' FOR INFLOWING PIPES SIZED 12" OR SMALLER AND 2' FOR INFLOWING PIPES SIZED LARGER THAN 12". EXCEPT THE CROWN OF THE LOWER PIPE SHALL NEVER BE SET BELOW THE CROWN OF ANY LARGER OUTFLOWING PIPE. THIS WORK, INCLUDING MODIFICATION OF MANHOLE FLOOR, SHALL BE PAID FOR AT THE UNIT PRICE BID FOR OUTSIDE DROP STACK CONSTRUCTED ON EXISTING MANHOLE.

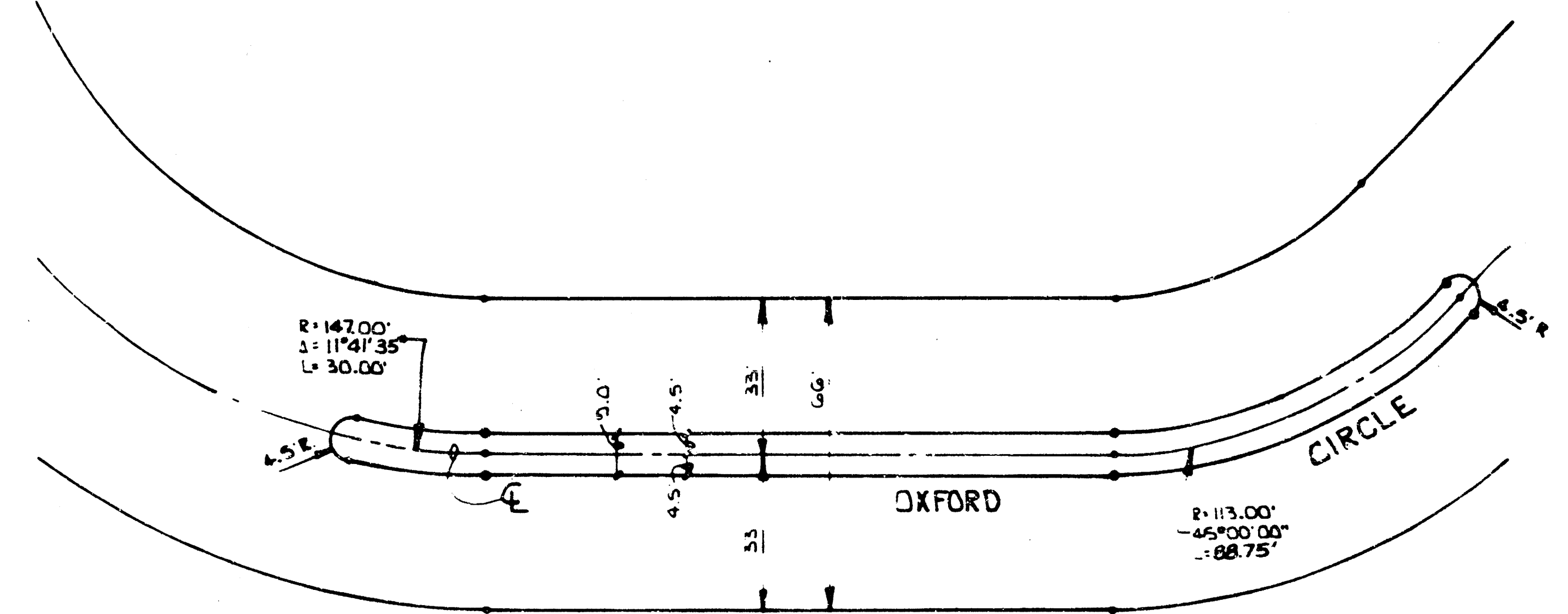
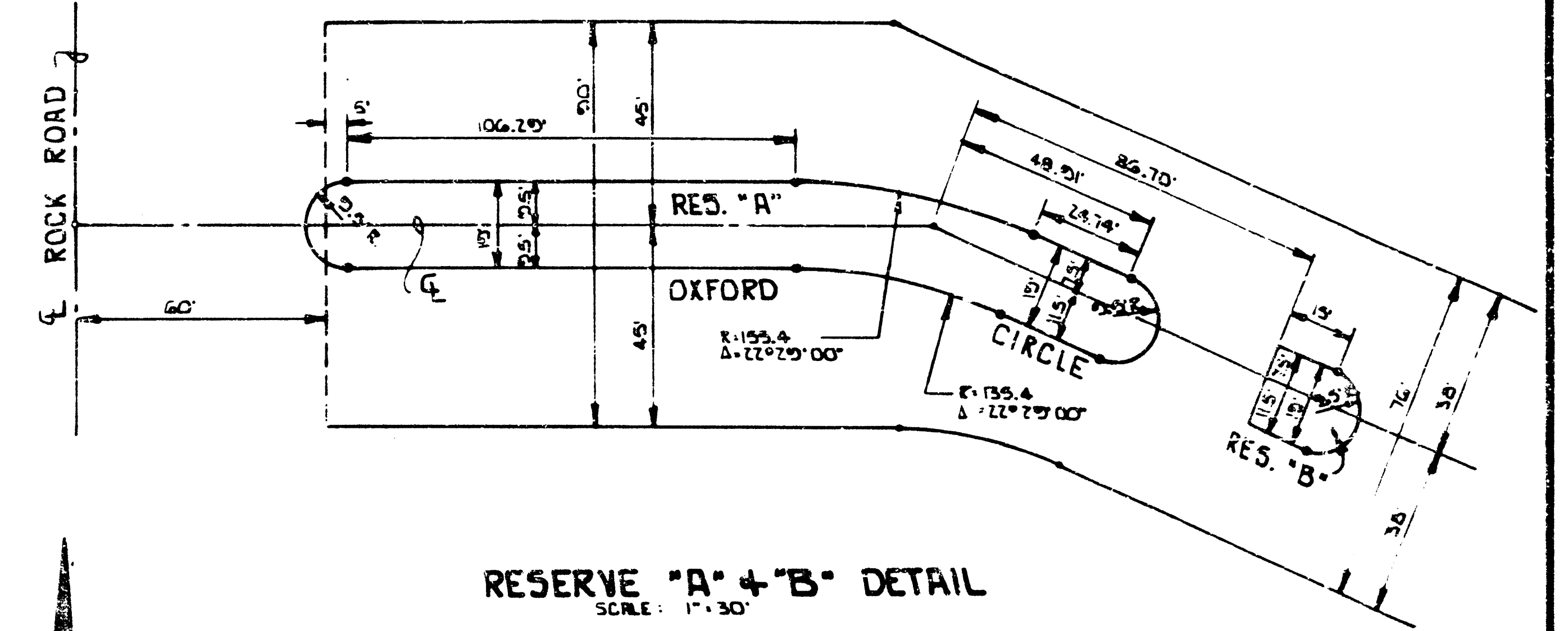
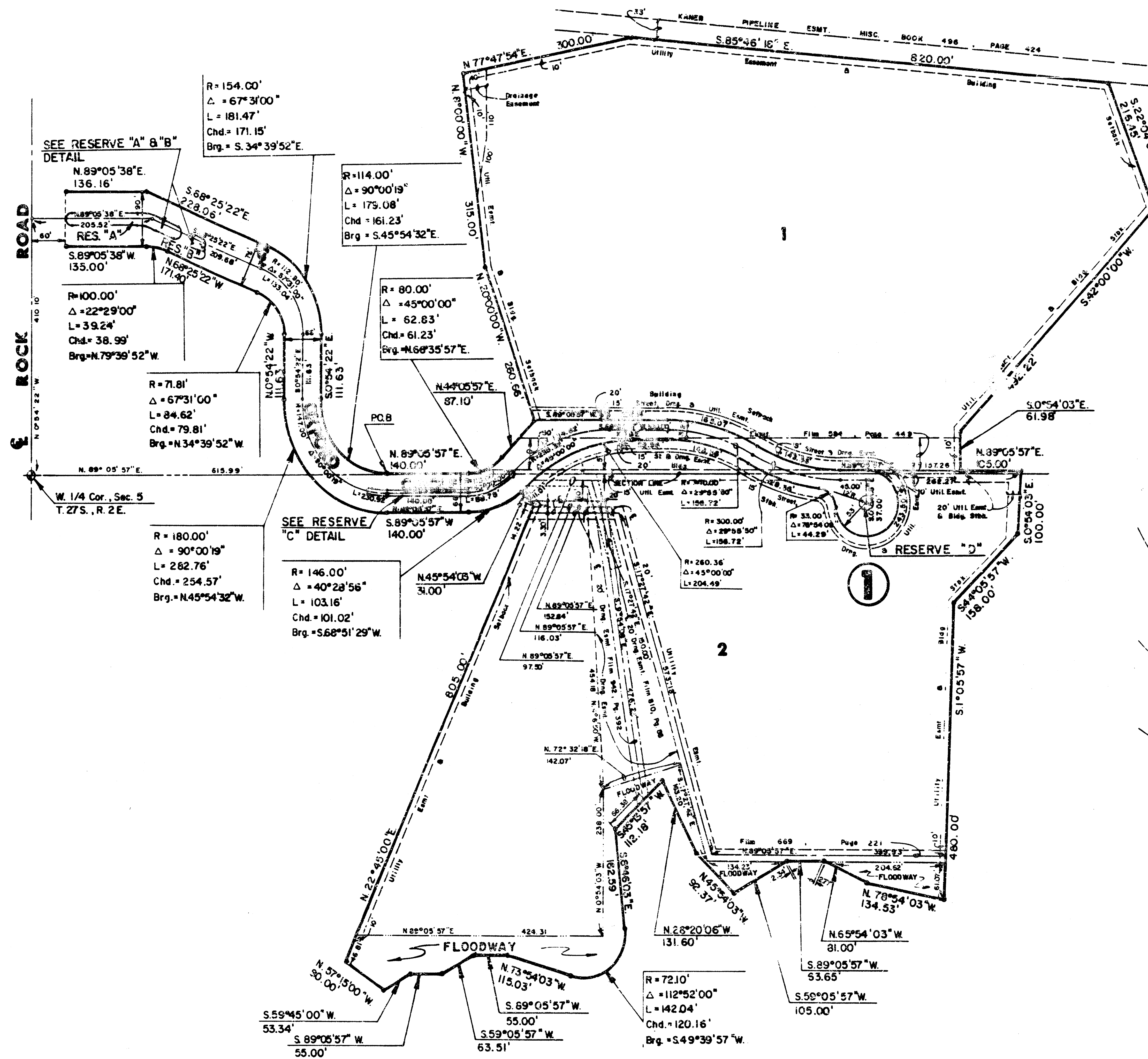
4. THE FLOORS OF ALL MANHOLES SHALL BE SHAPED WITH FLOW CHANNELS SUCH THAT THE MANHOLES WILL BE SELF-CLEANING AND FREE OF AREAS WHERE SOLIDUS COULD BE DEPOSITED AS SEWAGE FLOWS THROUGH THE MANHOLE FROM ALL INLET PIPES TO THE OUTLET PIPE. FLOW CHANNELS SHALL BE FORMED TO MATCH THE BOTTOM HALVES OF THE INFLOWING PIPES AND THE OUTFLOWING PIPE AS SHOWN BY THE DRAWINGS EXCEPT FOR INSIDE DROP MANHOLES. FLOW CHANNELS FOR INSIDE DROP MANHOLES SHALL BE CONSTRUCTED AS INDICATED BY THE DRAWING. MANHOLE FLOORS SHALL HAVE SLOPES OF 3 INCHES PER FOOT IN THE AREAS OUTSIDE OF THE FLOW CHANNELS SLOPED TOWARD THE FLOW CHANNELS. PIPES LAID THROUGH MANHOLES SHALL HAVE THE TOP HALF REMOVED TO NEAR LIMITS FOR THE FULL INSIDE DIAMETER OF THE MANHOLE. MANHOLE FLOORS SHALL THEN BE SHAPED AROUND THE BOTTOM HALF OF THE PIPE WHICH FORMS THE FLOW CHANNEL.
5. PIPES INSTALLED WITHIN THE EXCAVATION MADE FOR THE MANHOLE SHALL BE CRADLED WITH CONCRETE TO THE LIMITS OF THE MANHOLE EXCAVATION. WHEN CLAY PIPE IS USED, THE CRADLE SHALL EXTEND TO THE FIRST JOINT OUTSIDE THE MANHOLE. THE CRADLE SHALL BE TERMINATED AT THE CLAY PIPE JOINT IN A MANNER WHICH WILL MAINTAIN THE FLEXIBILITY OF THE JOINT. COST OF THE CRADLE WITHIN MANHOLE EXCAVATION OR TO CLAY PIPE JOINTS ADJACENT TO MANHOLE SHALL BE INCLUDED IN THE UNIT PRICE BID FOR THE MANHOLE.
6. MANHOLE COVER CASTINGS AND MANHOLE FRAME CASTINGS SHALL CONFORM TO THE REQUIREMENTS AS INDICATED IN THE STANDARD SPECIFICATIONS AND AS SHOWN IN THE STANDARD DETAIL DRAWING.
7. THE VERTICAL DROP IN INSIDE DROP MANHOLES SHALL NOT EXCEED 4' FOR INFLOWING PIPES SIZED 12" OR SMALLER AND 2' FOR INFLOWING PIPES LARGER THAN 12". THE CROWNS OF INFLOWING PIPES SHALL NEVER BE SET LOWER THAN THE CROWN OF THE OUTFLOWING PIPE.
8. STANDARD MANHOLES TYPE "A" AND STANDARD INSIDE DROP MANHOLES TYPE "A" SHALL BE BID AS STANDARD MANHOLES FOR THE TYPE AND DIAMETER INDICATED. OUTSIDE DROP MANHOLES TYPE "A" SHALL BE BID AS STANDARD OUTSIDE DROP MANHOLES FOR THE TYPE AND DIAMETER INDICATED. ALL MANHOLE DIAMETERS WILL BE 4' UNLESS INDICATED OTHERWISE.

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MKEC Proj. No. 89-35-101-D

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FINAL PLAT OF WINDEMERE SECOND ADDITION AN ADDITION TO WICHITA, SEDGWICK COUNTY KANSAS



86-974

FINAL PLAT OF

WINDEMERE SECOND ADDITION

AN ADDITION TO WICHITA, SEDGWICK COUNTY KANSAS

I, Kenneth H. Bengtson, a Civil Engineer and Registered Land Surveyor in Kansas, do hereby certify that I have been in responsible charge of surveying and platting of "WINDEMERE SECOND ADDITION" an addition to Wichita, Sedgwick County, Kansas, into Lots, Blocks, Reserves, and Streets, the same being accurately set forth in the accompanying plat and described herein:

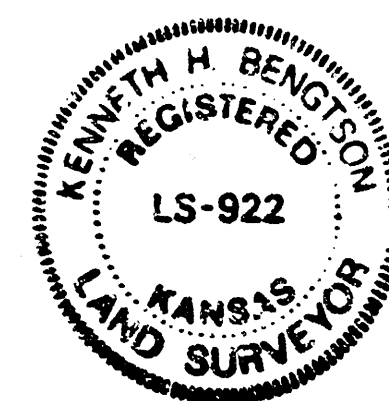
All of Reserve A, in "SILVERLEAF" an addition to Wichita, Sedgwick County, Kansas, and a tract of land lying in the Northwest and Southwest Quarters, Section 5, Township 27 South, Range 2 East of the 6th P.M., Sedgwick County, Kansas, more particularly described as follows:

Commencing at the Northwest corner of the said Southwest Quarter, thence N 89° 05' 57" E, 615.99 feet along the North line of said Southwest Quarter to the point of beginning; thence N 89° 05' 57" E, 140.00 feet along said North line to a point on a curve to the left; thence along said curve 62.83 feet, said curve having a central angle of 45° 00' 00", a radius of 80.00 feet, and a long chord of 61.23 feet, bearing S 68° 35' 57" E; thence N 44° 05' 57" E, 87.10 feet; thence N 20° 00' 00" W, 260.66 feet; thence N 08° 08' 00" W, 315.00 feet; thence N 77° 47' 54" E, 300.00 feet to the South line of a 33.00 foot K.A.N.E.B. pipeline easement; thence S 85° 46' 18" E, 820.00 feet along said South line; thence S 22° 04' 09" E, 215.45 feet; thence S 42° 00' 00" W, 492.22 feet; thence S 00° 54' 03" E, 61.98 feet to a point lying 5.00 feet North of the North line of said Southwest Quarter; thence N 89° 05' 57" E, 105.00 feet; thence S 00° 54' 03" E, 100.00 feet; thence S 44° 05' 57" W, 158.00 feet; thence S 01° 05' 57" W, 480.00 feet; thence N 73° 54' 03" W, 134.53 feet; thence N 65° 54' 03" W, 81.00 feet; thence S 89° 05' 57" W, 63.65 feet; thence S 59° 05' 57" W, 105.00 feet; thence N 45° 54' 03" W, 92.37 feet; thence N 28° 20' 06" W, 131.60 feet; thence S 45° 13' 57" W, 112.18 feet; thence S 04° 46' 03" E, 162.59 feet to a point on a curve to the right; thence along said curve 142.04 feet, said curve having a central angle of 112° 52' 00", a radius of 72.10 feet, and a long chord of 120.16 feet, bearing S 49° 39' 57" W; thence N 73° 54' 03" W, 115.03 feet; thence S 89° 05' 57" W, 55.00 feet; thence S 59° 05' 57" W, 63.51 feet; thence S 89° 05' 57" W, 55.00 feet; thence S 59° 45' 00" W, 53.34 feet; thence N 57° 15' 00" W, 80.00 feet; thence N 22° 45' 00" E, 805.00 feet; thence N 45° 54' 03" W, 31.00 feet to a point on a curve to the right; thence along said curve 103.16 feet, said curve having a central angle of 40° 08' 56", a radius of 146.00 feet, and a long chord of 101.02 feet, bearing S 68° 51' 29" W; thence S 89° 05' 57" W, 140.00 feet, to the intersection of the Easterly line of said "SILVERLEAF" and the South line of Reserve A of said "SILVERLEAF"; thence N 00° 54' 21" W, 66.00 feet to the point of beginning.

All Lots, Blocks, Streets, Floodway, and Easements are hereby vacated and replatted by virtue of K.S.A. 12-512(b).

I hereby certify that the details of this plat are correct to the best of my knowledge and belief this 22nd day of August, 1989.

Kenneth H. Bengtson
Kenneth H. Bengtson, P.E., K.L.S. #922
Mid-Kansas Engineering Consultants, P.A.
3500 N. Rock Road, Building #900
Wichita, KS 67226



Know all men by these presents that we the undersigned property owners of the land as above set forth in the Civil Engineer's Certificate, have caused the same to be surveyed and platted into Lots, Blocks, Reserves, and Streets, the same to be known as "WINDEMERE SECOND ADDITION", an addition to Wichita, Sedgwick County, Kansas. The streets are hereby dedicated to and for the use of the public. Reserve A is platted for landscaping and entry identification. Reserves B, C, and D are platted for landscaping. The Reserves shall be owned and maintained by the owner of Lot 1, Block 1, Windemere Second Addition. Easements for the construction and maintenance of public utilities, drainage and streets as indicated on the accompanying plat, are hereby granted to the public. The floodway shall be the responsibility of the owners until such time as the governing body exercising jurisdiction elects to assume the responsibility for the maintenance and improvement of the drainage, provided however, that no structure shall be constructed on or within said floodway, nor shall any fill, change of grade, creation of channel or other work be carried on without the permission of the City Engineer.

SLANSON INVESTMENT CORPORATION

By: Larry A. Chambers
Larry A. Chambers, President

STATE OF KANSAS)
SEDGWICK COUNTY)

Be it remembered that on this 22nd day of August, 1989, before me a Notary Public in and for said State and County, came Slanson Investment Corporation, by Larry A. Chambers, President, to me personally known to be the same person who executed the foregoing instrument of writing and duly acknowledged the execution of the same. In testimony whereof I have hereunto set my hand and affixed my notarial seal the day and year above written.

Linda S. Graham
Linda S. Graham
My Appointment Expires: 2/2/90

We, The Mission Bank, mortgagee on the above described property, do hereby consent to the plat of "WINDEMERE SECOND ADDITION".

THE MISSION BANK, Mission, Kansas

By: Glen M. Porter
Glen M. Porter, Vice President

STATE OF KANSAS)
COUNTY OF JOHNSON)

Be it remembered that on this 24th day of August, 1989, before me, a Notary Public in and for said State and County, came The Mission Bank, Mission, Kansas, by Glen M. Porter, Vice President to me personally known to be the same person who executed the foregoing instrument of writing and duly acknowledged the execution of the same. In testimony whereof I have hereunto set my hand and affixed my notarial seal the day and year above written.

Rose Ann Worlein
Rose Ann Worlein, Notary Public

My Appointment Expires: ROSE ANN WORLEIN
NOTARY PUBLIC
STATE OF KANSAS
My Appt. Exp. 12/31/90

This plat of "WINDEMERE SECOND ADDITION" has been submitted to and approved by the Wichita-Sedgwick County metropolitan Area Planning Commission, Wichita, Kansas.

Dated this 17th day of August, 1989.

WICHITA-SEDGWICK COUNTY METROPOLITAN AREA PLANNING COMMISSION

Sue L. Crockett
Sue L. Crockett, Chairman

Marvin S. Kroat
Marvin S. Kroat, Secretary

This plat approved and all dedications shown hereon, if any, accepted by the City Council of the City of Wichita, Kansas, this 22nd day of September, 1989.

John M. Knight
John M. Knight, Mayor

John M. Knight
John M. Knight, City Clerk

Entered on transfer record this 26th day of September, 1989.

Don Wright
Don Wright, County Clerk

STATE OF KANSAS)
SEDGWICK COUNTY)

This is to certify that this instrument was filed for record in the Register of Deeds office this 26th day of SEPTEMBER, 1989.

Pat Kettler
Pat Kettler, Register of Deeds

Ed Resa
Ed Resa, Deputy



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MKEC Proj. No. 89-35-101-D

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