

GENERAL NOTES

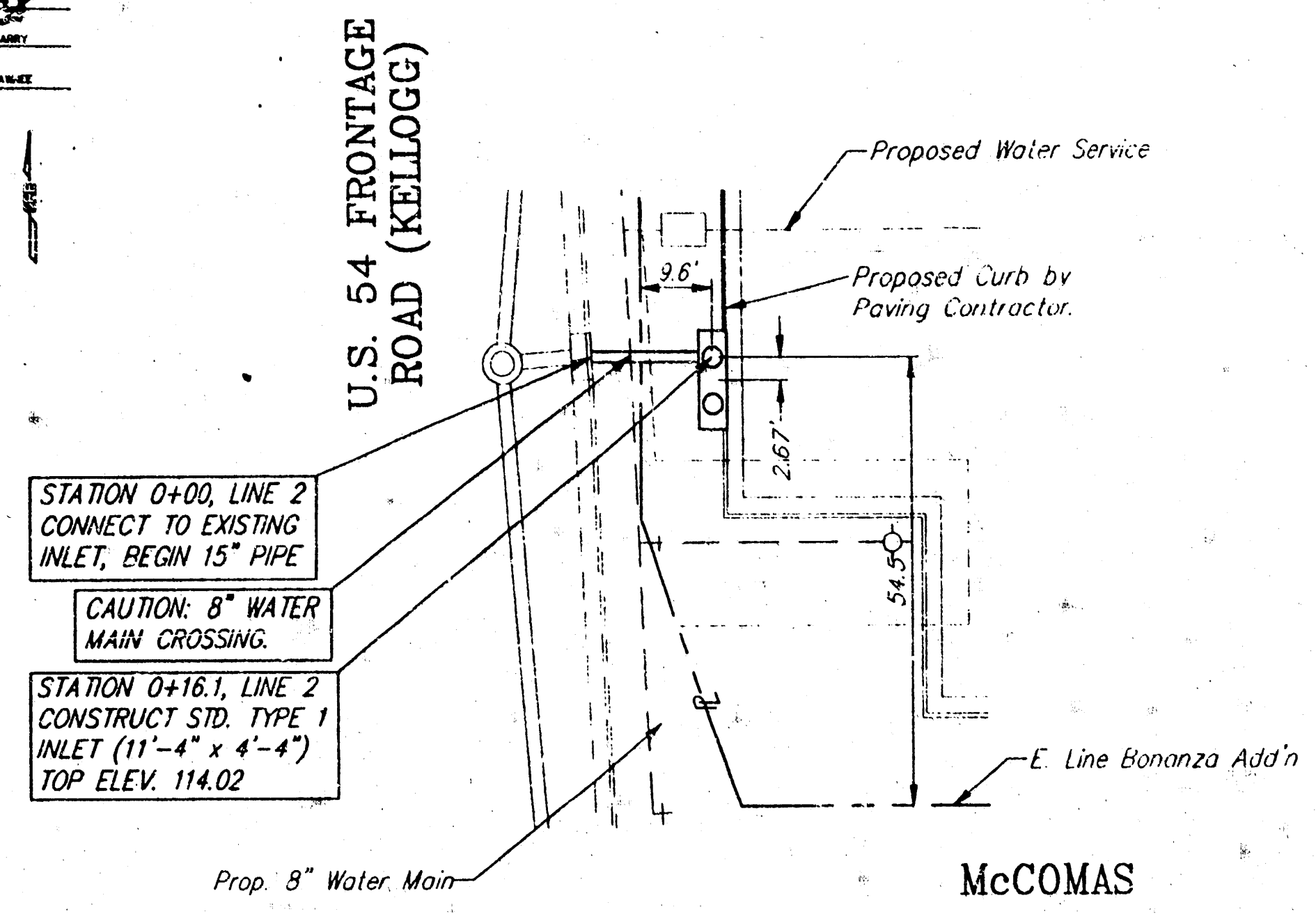
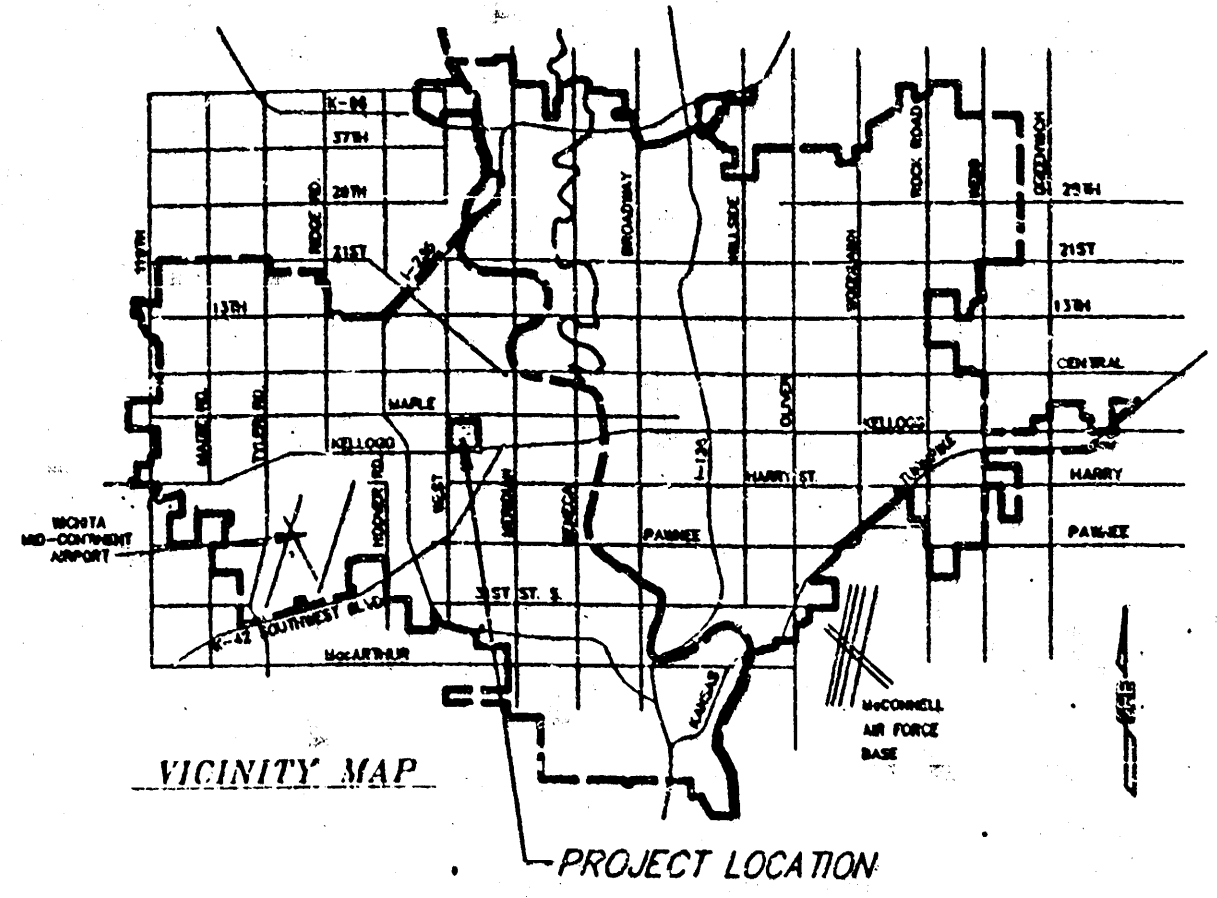
1. The Contractor shall give all property owners and/or tenants of developed property directly abutting the construction of this project a minimum of ten (10) days notice prior to start of construction.
2. The Contractor shall be responsible for preserving property irons. The Contractor will be required 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. Contractor will be required to provide a minimum notice of twenty-four (24) hours to utility companies prior to starting any excavation as follows:
 Kansas One-Call 687-2470
4. The Contractor shall be responsible for traffic control to maintain traffic at all times on U.S. 54 Frontage Rd.
5. All work on this project shall be done in accordance with City of Wichita Standard Specifications for storm sewers and drainage.
6. Trench backfill shall be compacted to Standard Proctor Density of 95% min.
7. All disturbed areas within street right of way which are unpaved are to be seeded and fertilized.

BENCH MARK

1. Square cut on midpoint of high edge of curb return McComas and Frontage Road. Elev. 112.95 City datum.

INDEX

1. Plan/Profile
2. Inlet Detail
3. Inlet Details
4. Elevation Plan
5. Plan of Bonanza Add'n

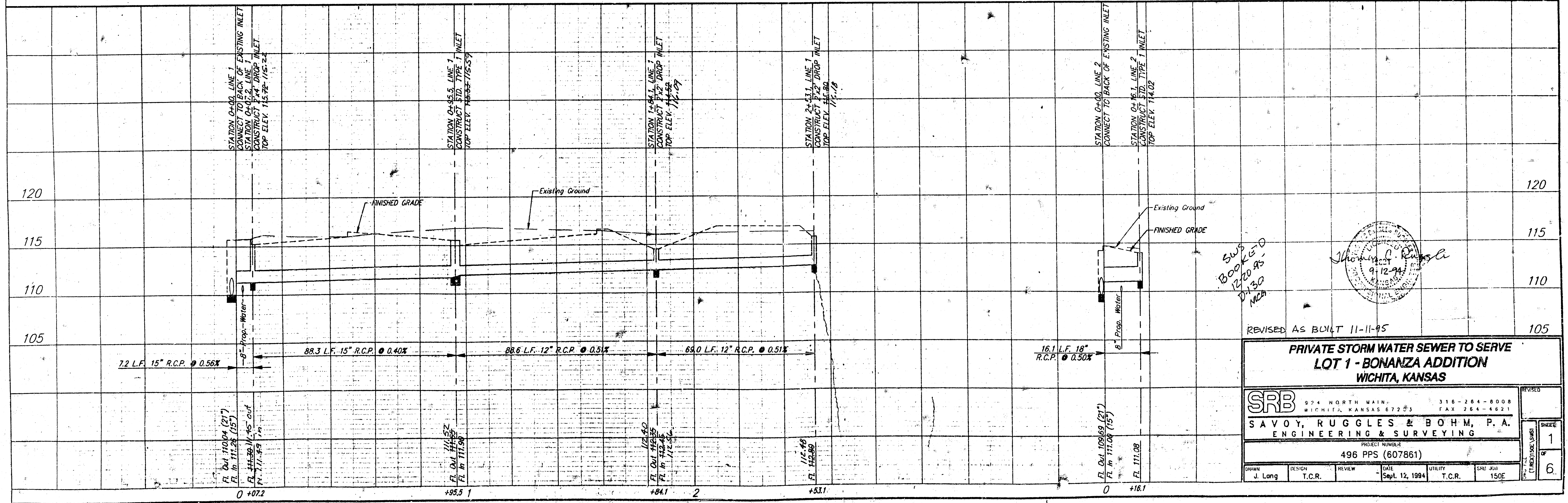
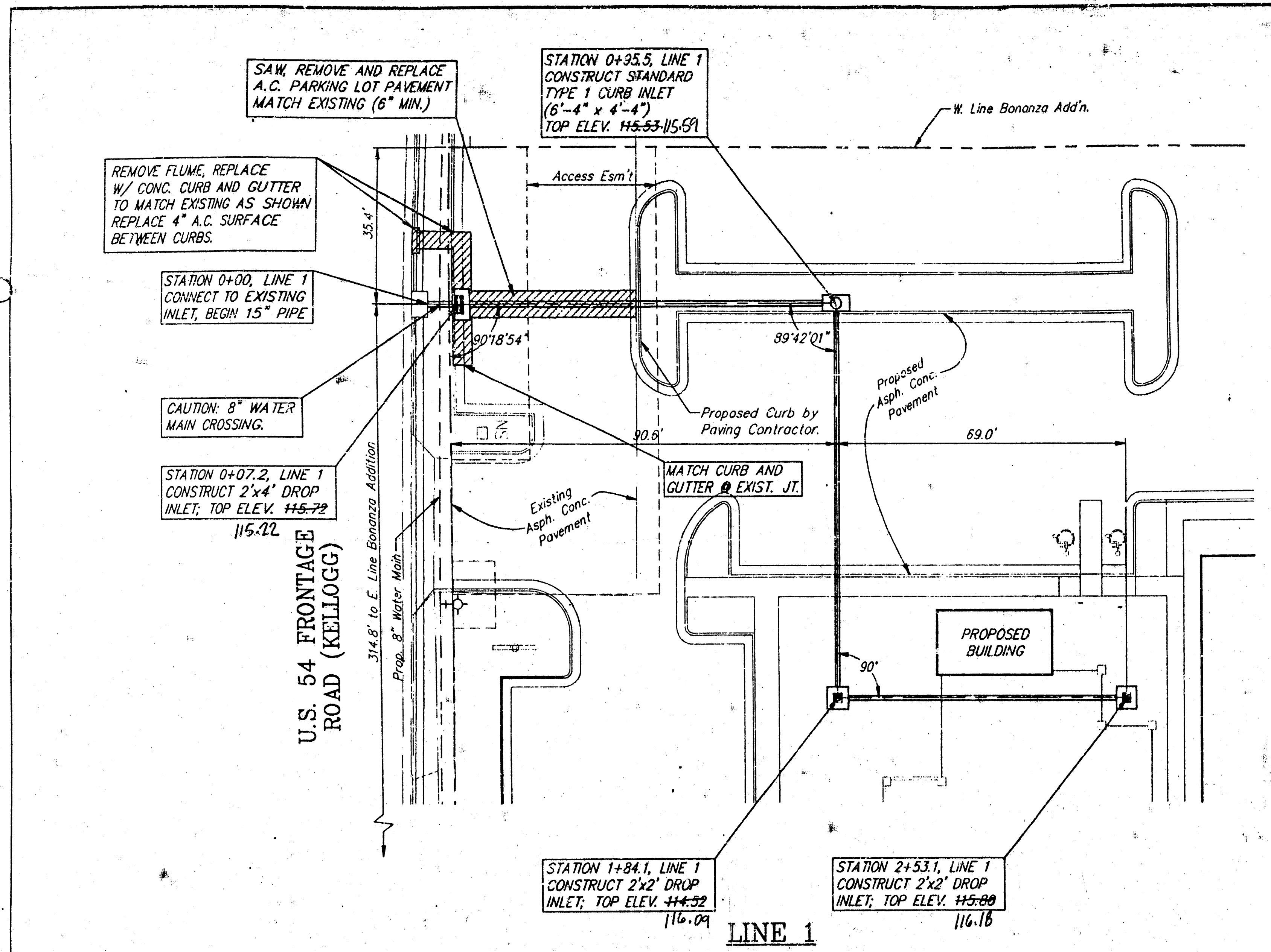


APPROVED AS NOTED
 BY CITY ENGINEER OF WICHITA

Sanitary Sewers _____
 Storm Sewers VRH 9/13/94
 Driveway Approaches _____
 Water Mains _____
 Paving _____

NOTE TO CONTRACTORS

Inspection and testing for this project are to be provided by a Licensed Consulting Engineering Firm under contract with the Owner/Developer. Soil inspection to be in accordance with the City of Wichita standard construction engineering practices and certified by a Licensed Professional Engineer. No work shall be performed in dedicated easements or public right-of-way by the Contractor without such inspection, nor shall any work be commenced without written authorization by the City Engineer.

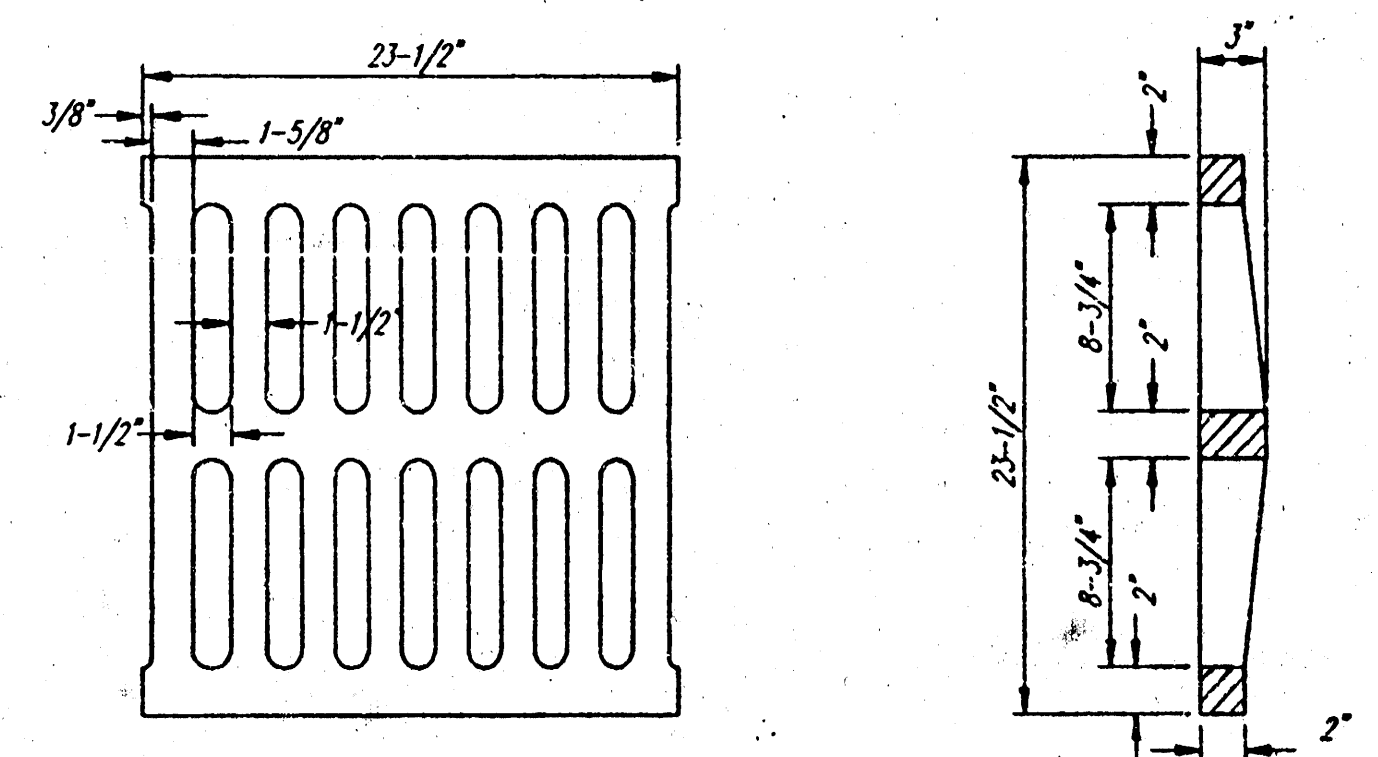
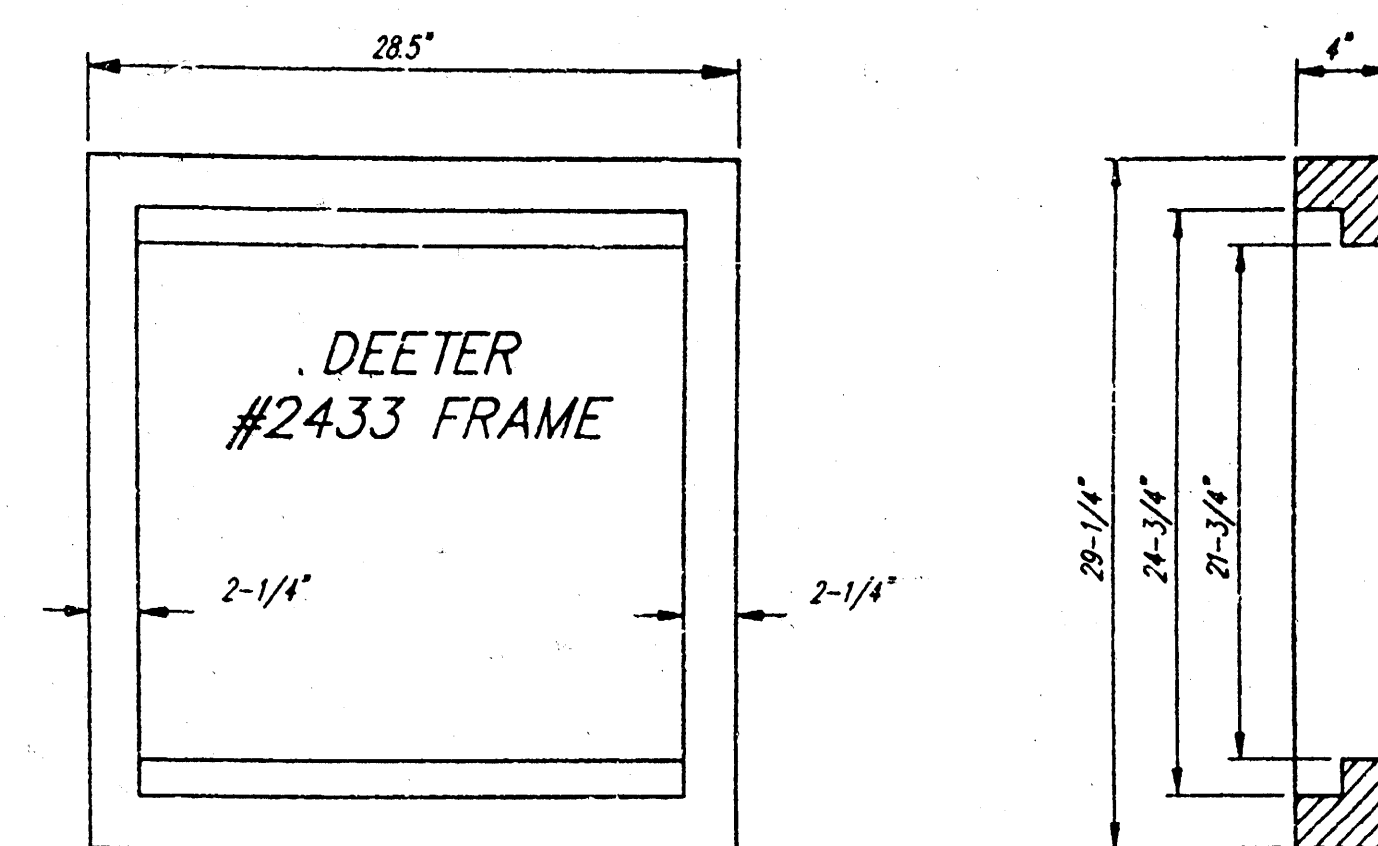


REVISED AS BUILT 11-11-95

SW'S
 BOOKED
 12-20-95
 D-130
 MCA

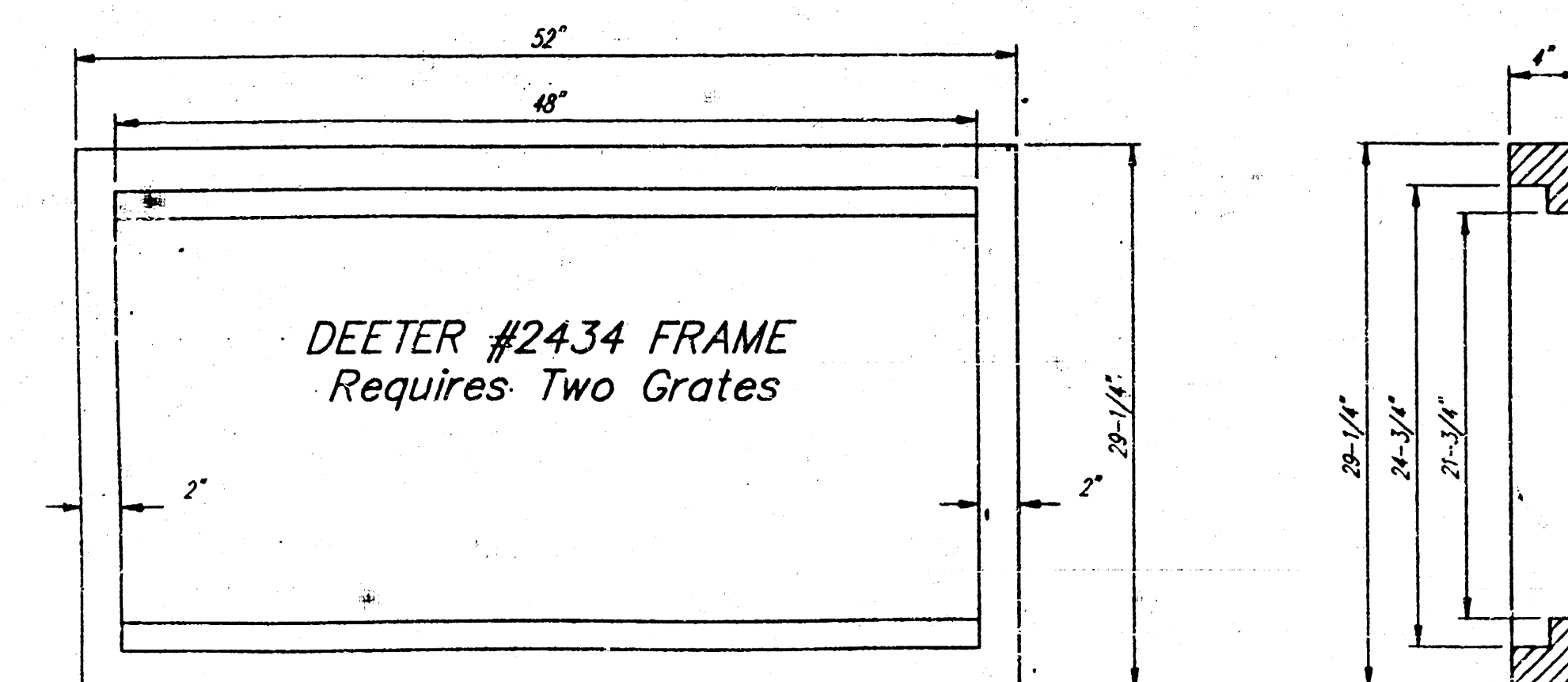
Sharon S. Ruggles
 9-12-94

PRIVATE STORM WATER SEWER TO SERVE LOT 1 - BONANZA ADDITION WICHITA, KANSAS					
SRB SAVOY, RUGGLES & BOHM, P.A. ENGINEERING & SURVEYING		316 NORTH MAIN WICHITA, KANSAS 67203 316-264-8008 FAX 264-4621		REVISED	
PROJECT NUMBER 496 PPS (607861)					
DRAWN J. Long	DESIGN T.C.R.	REVIEW	DATE Sept. 12, 1994	UTILITY T.C.R.	SHEET NO. 150E
SHEET 1 OF 6					



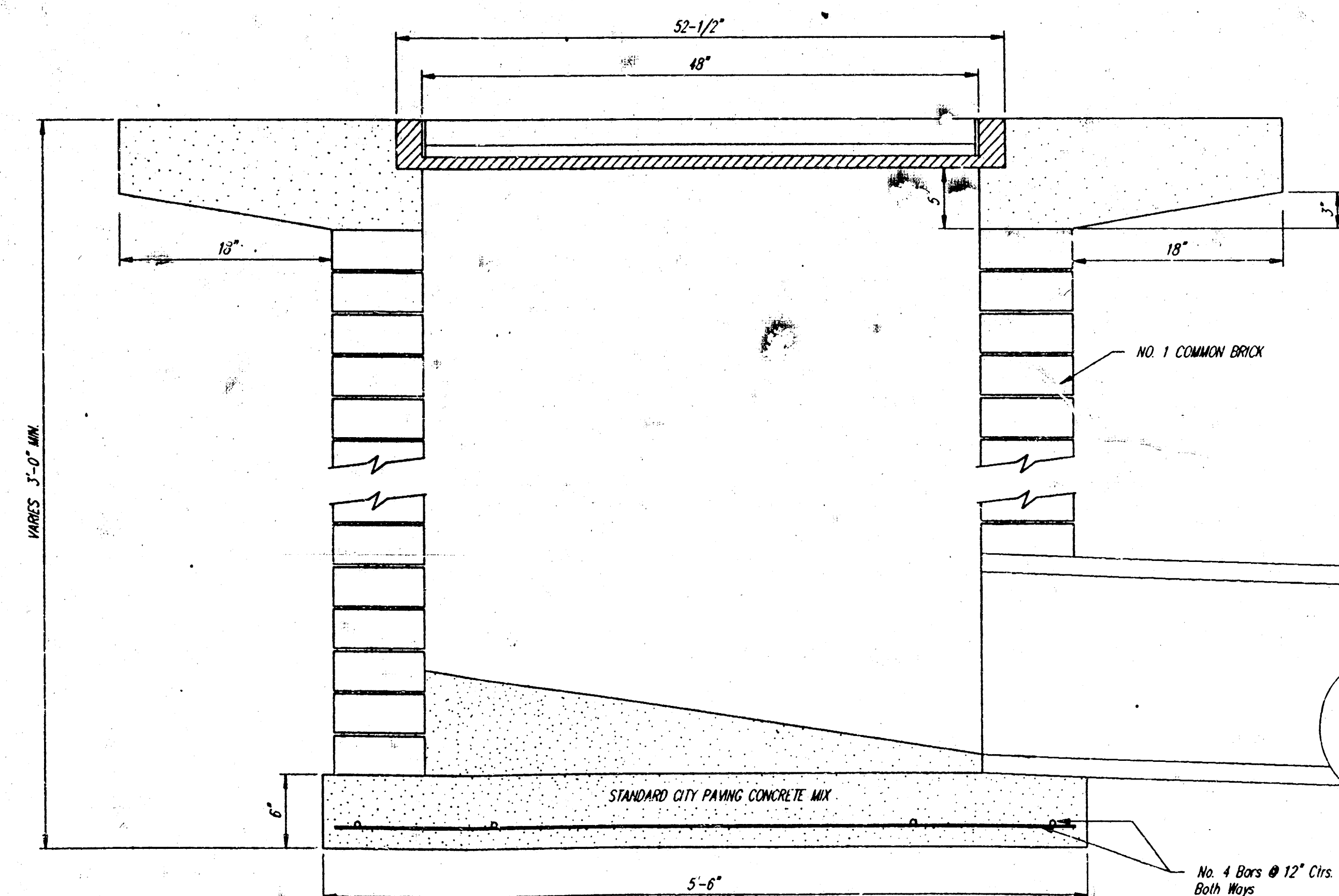
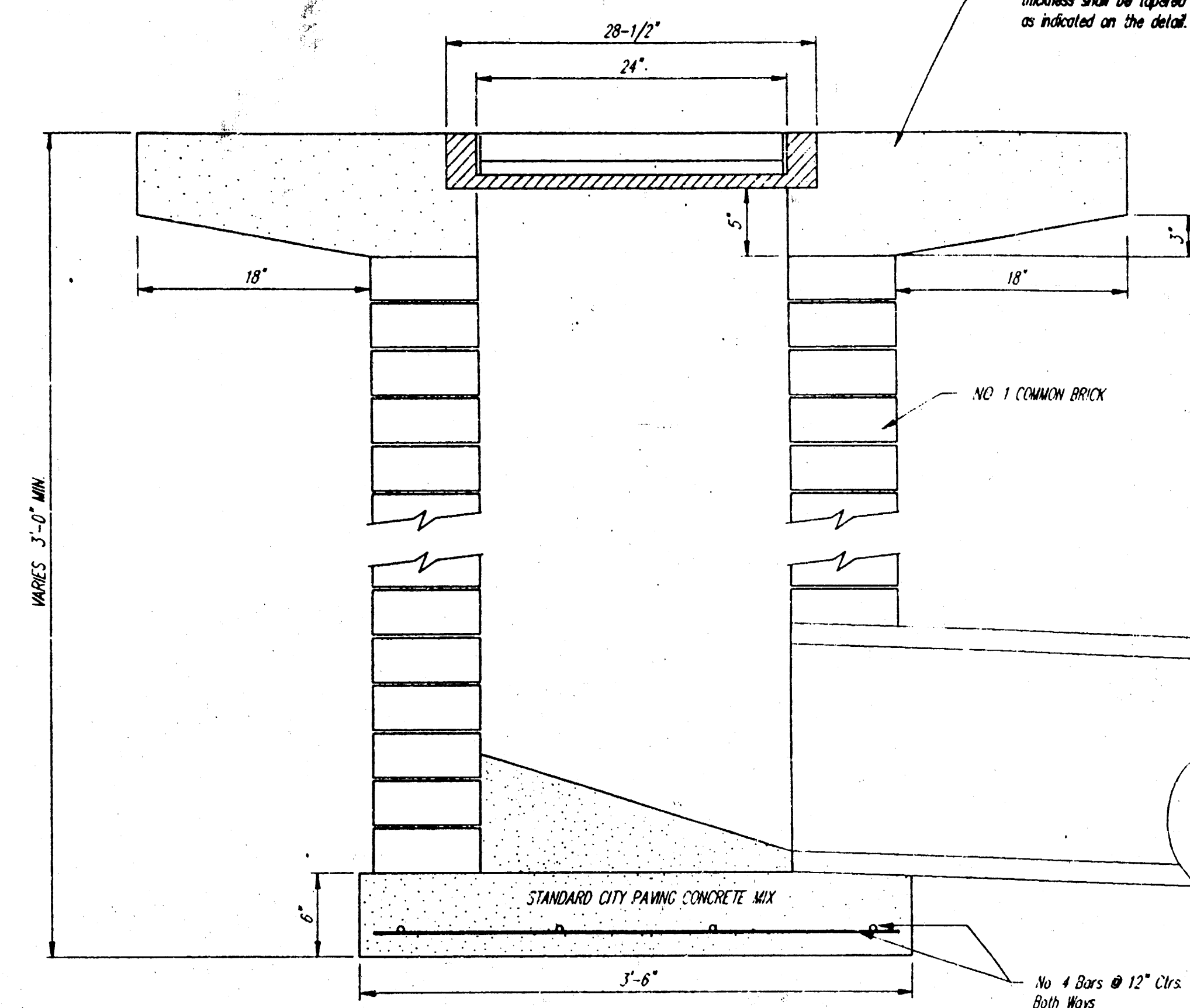
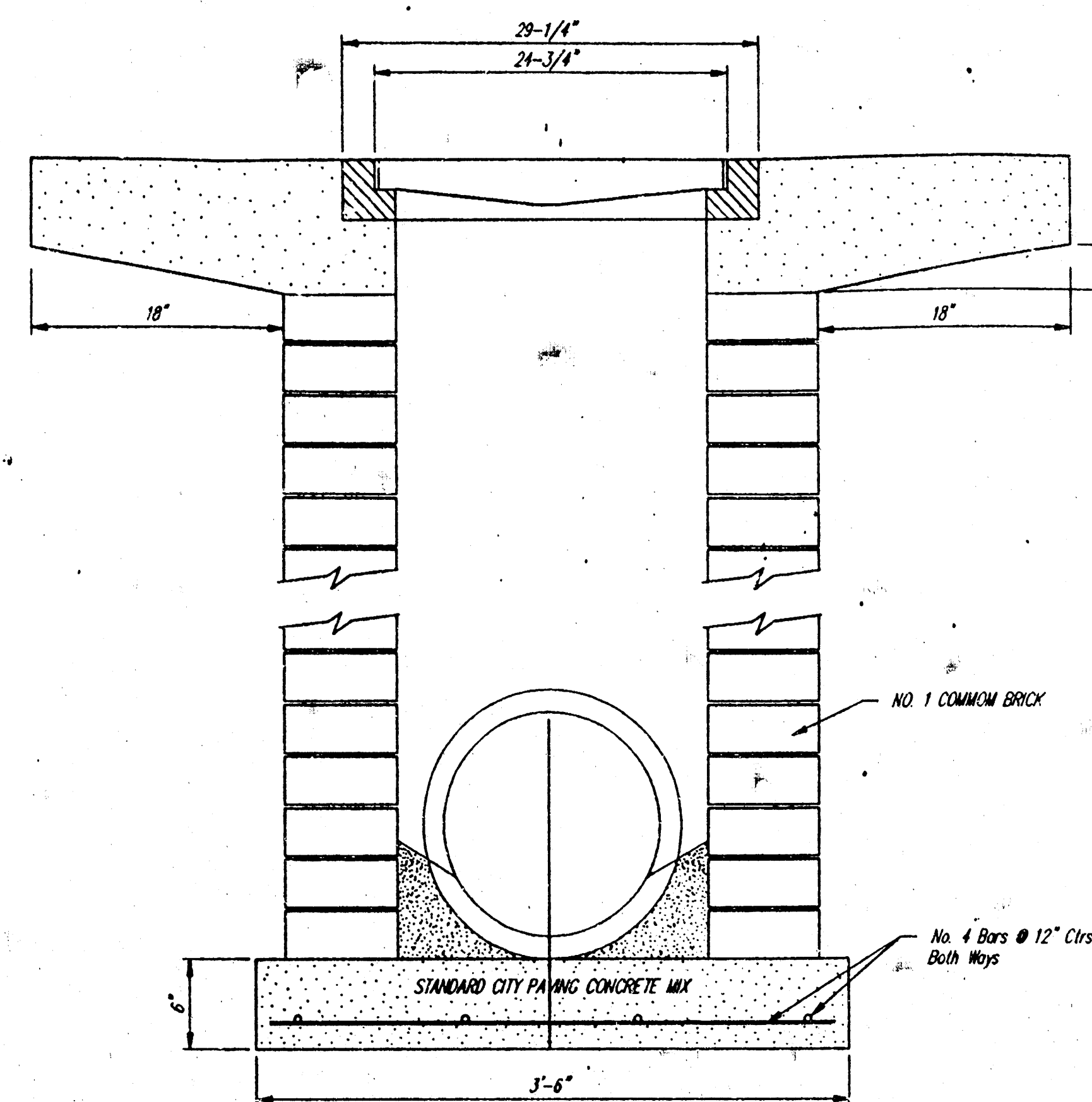
DEETER #2433 GRATE

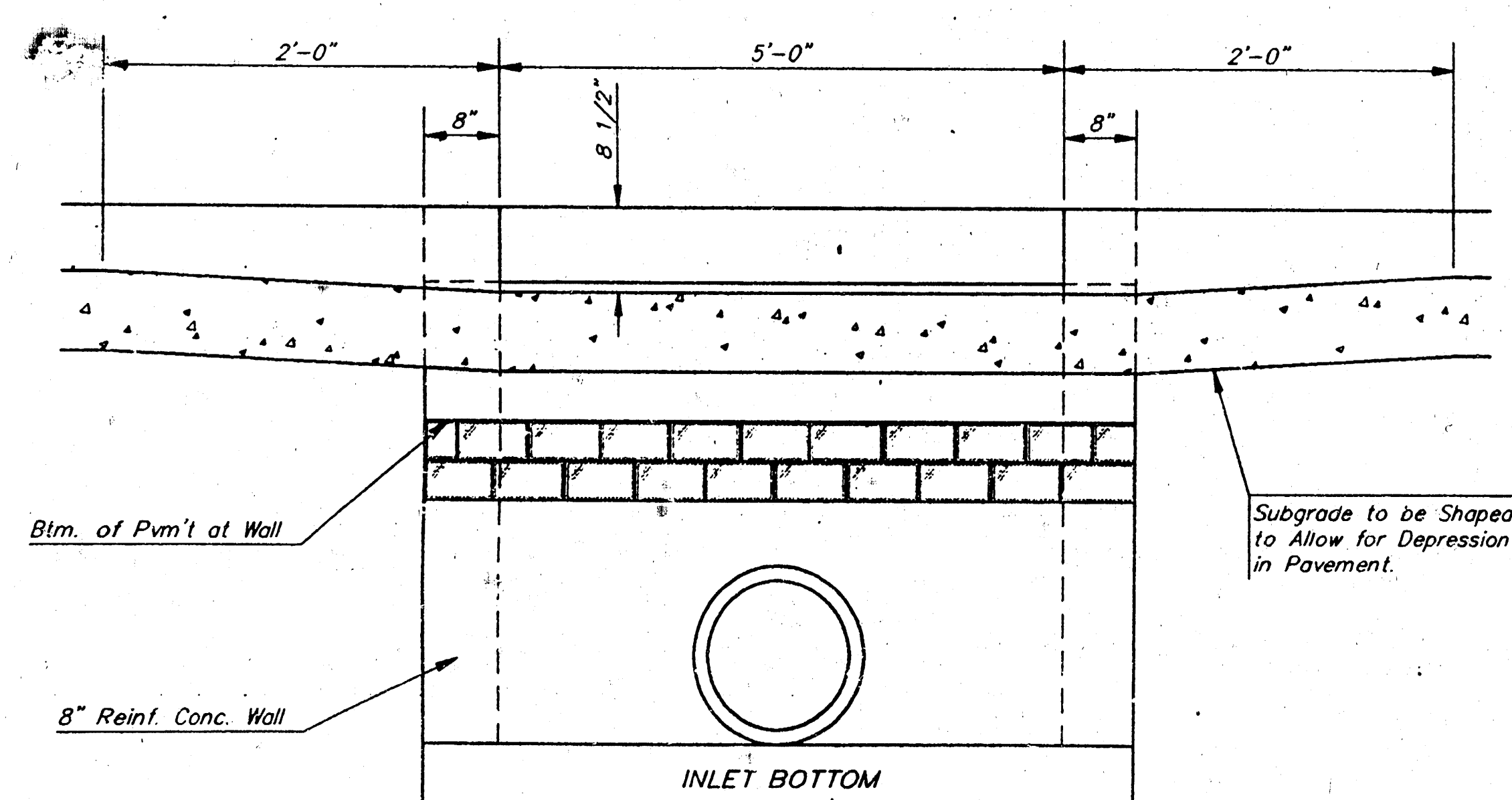
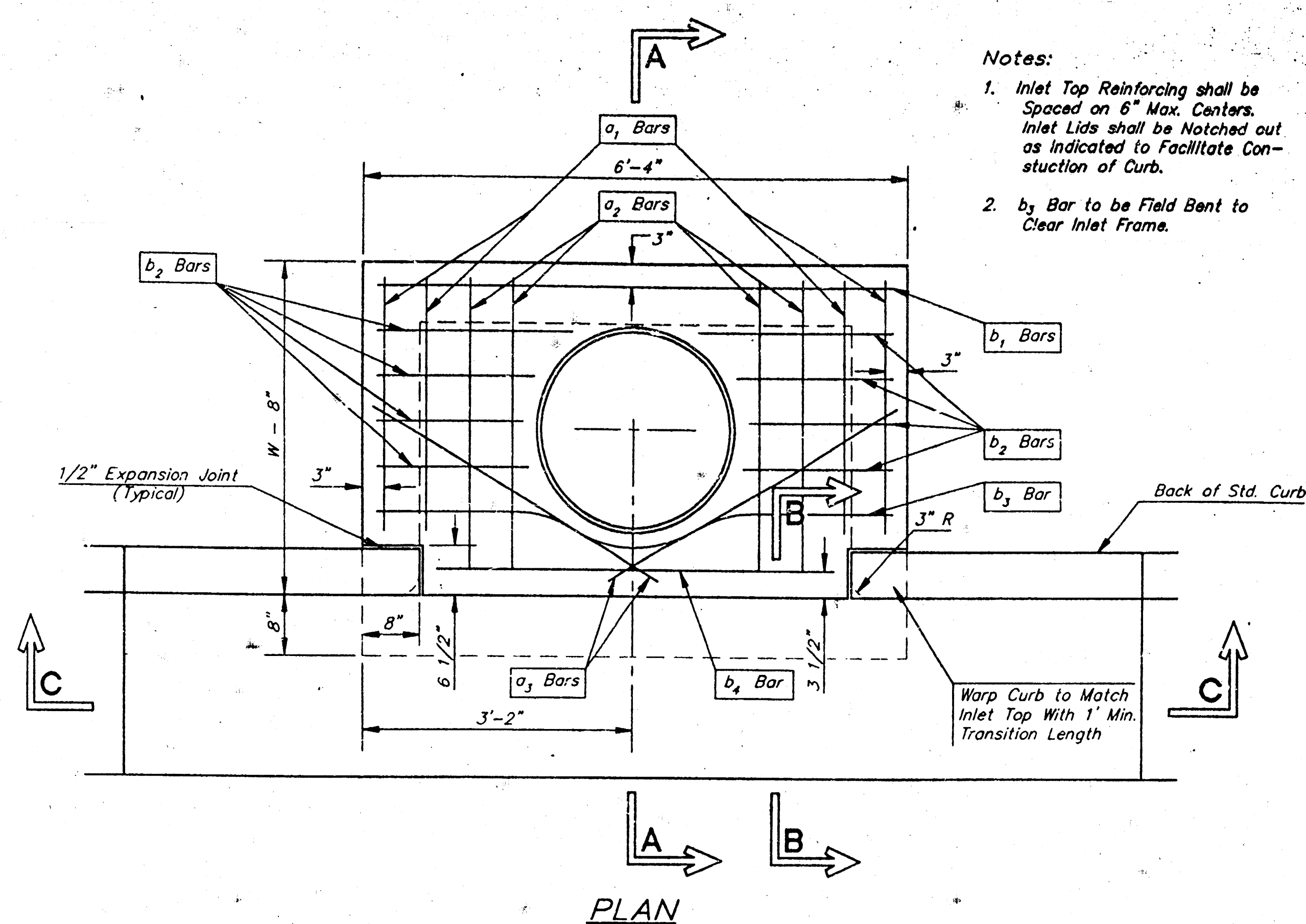
24" x 24" Frame and Grate Detail



DEETER #2434 FRAME
Requires Two Grates

Double 24" x 24" Frame Detail



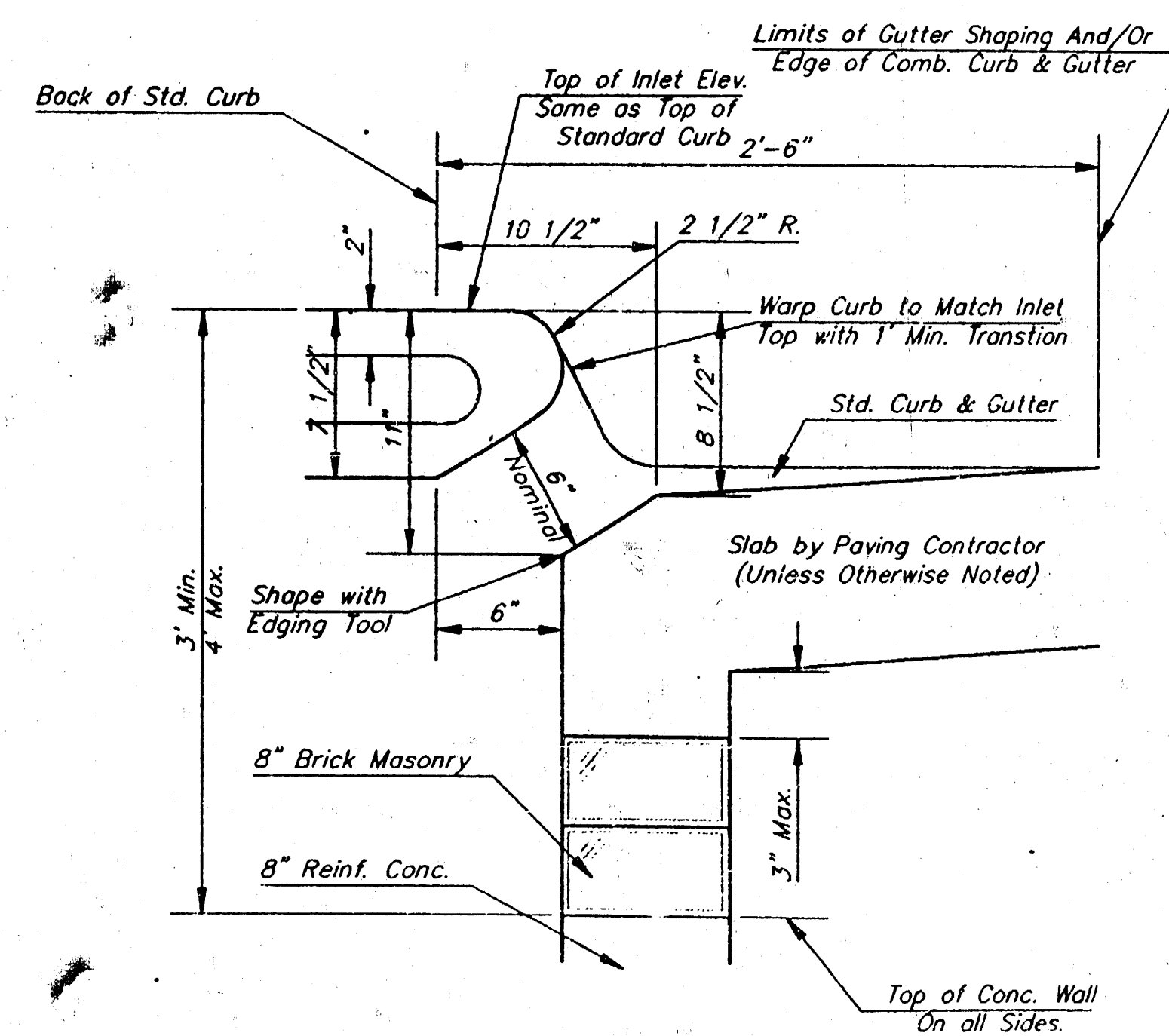
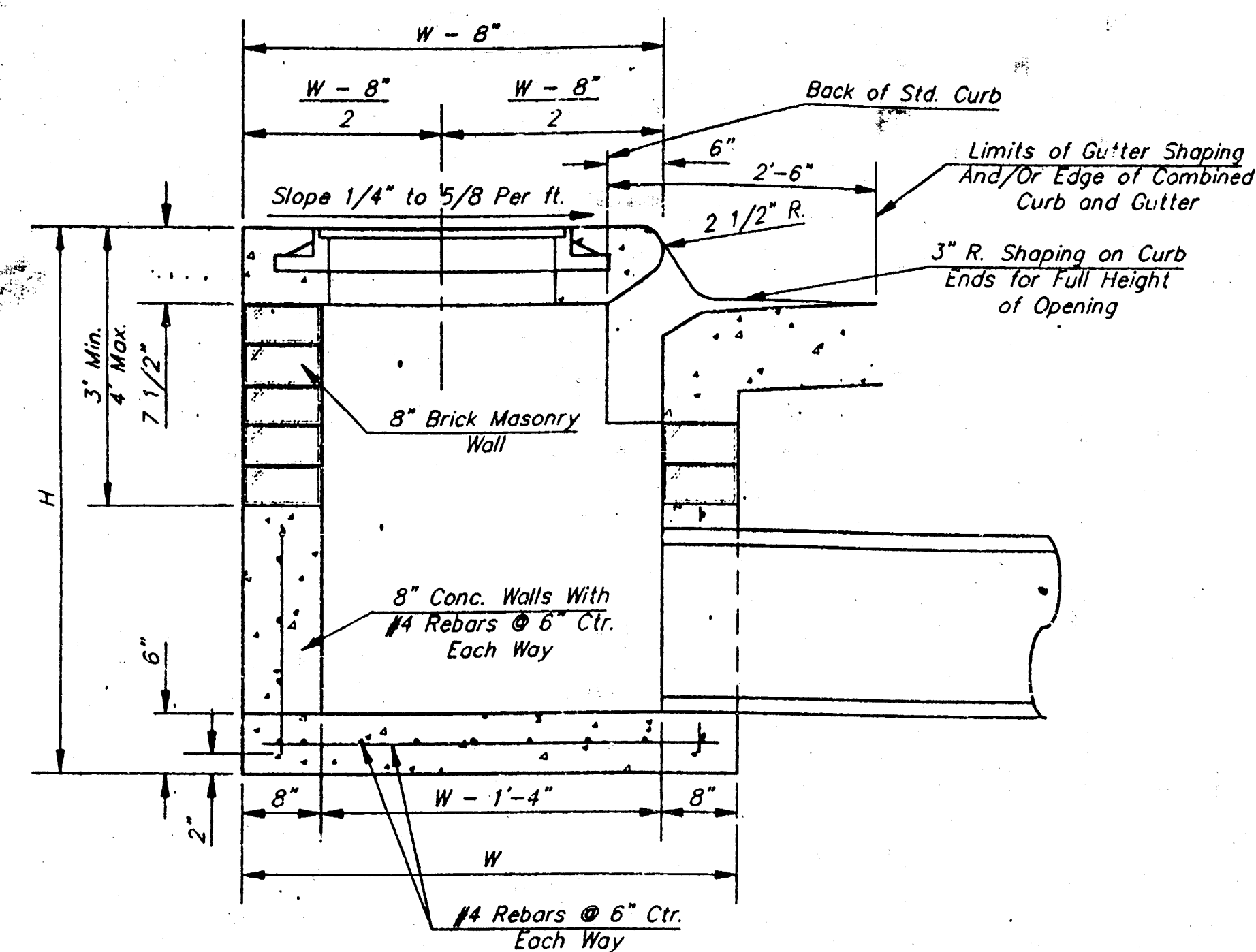


STEEL SCHEDULE

BAR		a_1	a_2	a_3	b_1				b_2	b_3	b_4	WT. LBS.	
					$W=4'-4"$	$W=5'-4"$	$W=6'-4"$	$W=7'-4"$	$W=8'-4"$				
NUMBER		4	4	2	1	3	5	7	9	6	1	1	
SIZE		#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±
	$W=6'-4"$	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±

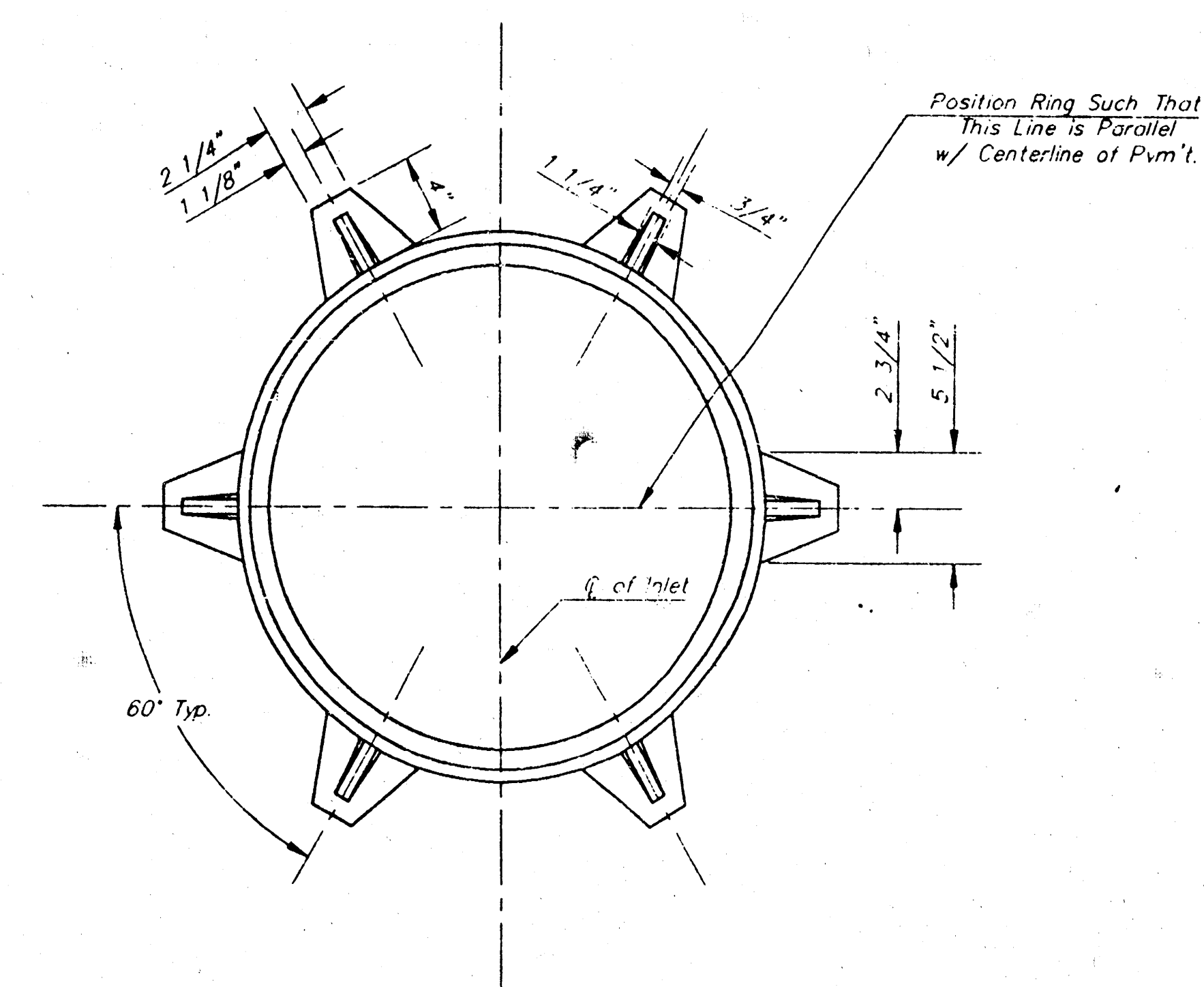
Note: a_3 Bars to be Placed Approx. 2" Below Top of Inlet Cover.

W	PRE-CAST TOP SIZE	PIPE SIZE	CU. YD. CONC.
4'-4"	3'-8" 6'-4" 7 1/2"	21" & SMALLER	0.38±
5'-4"	4'-8" 6'-4" 7 1/2"	24" & 30"	0.51±
6'-4"	5'-8" 6'-4" 7 1/2"	36" & 42"	0.64±
7'-4"	6'-8" 6'-4" 7 1/2"	48" & 54"	0.77±
8'-4"	7'-8" 6'-4" 7 1/2"	60" & 66"	0.90±



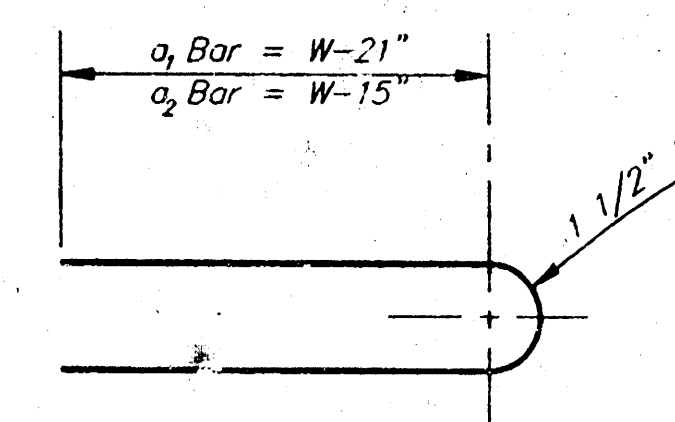
GENERAL NOTES

- Concrete tops to be installed on thin mortar cushion to insure full support w/ long brick walls. Concrete tops may be cast in place or precast. Concrete used for inlet construction shall be concrete pavement mix.
- 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.

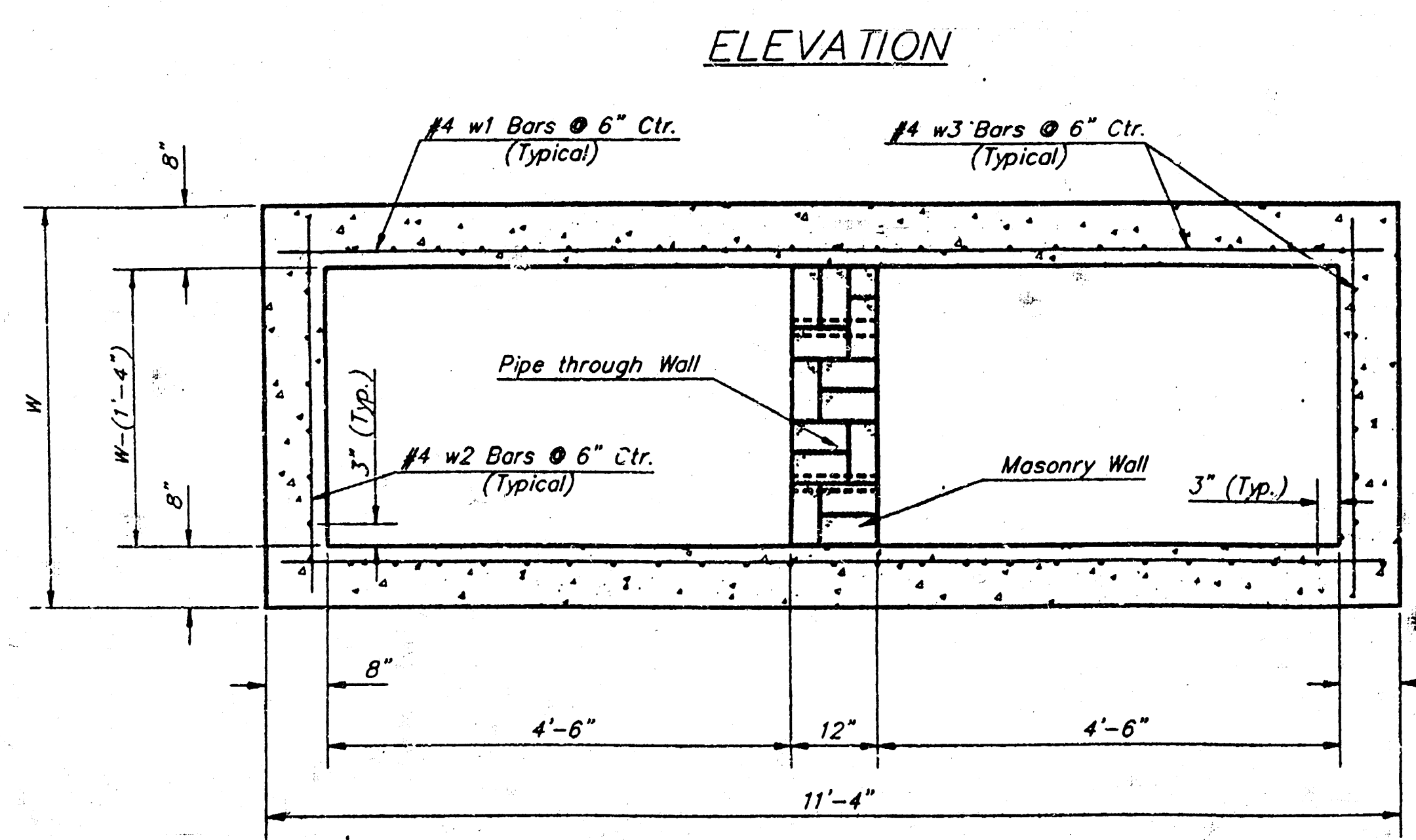
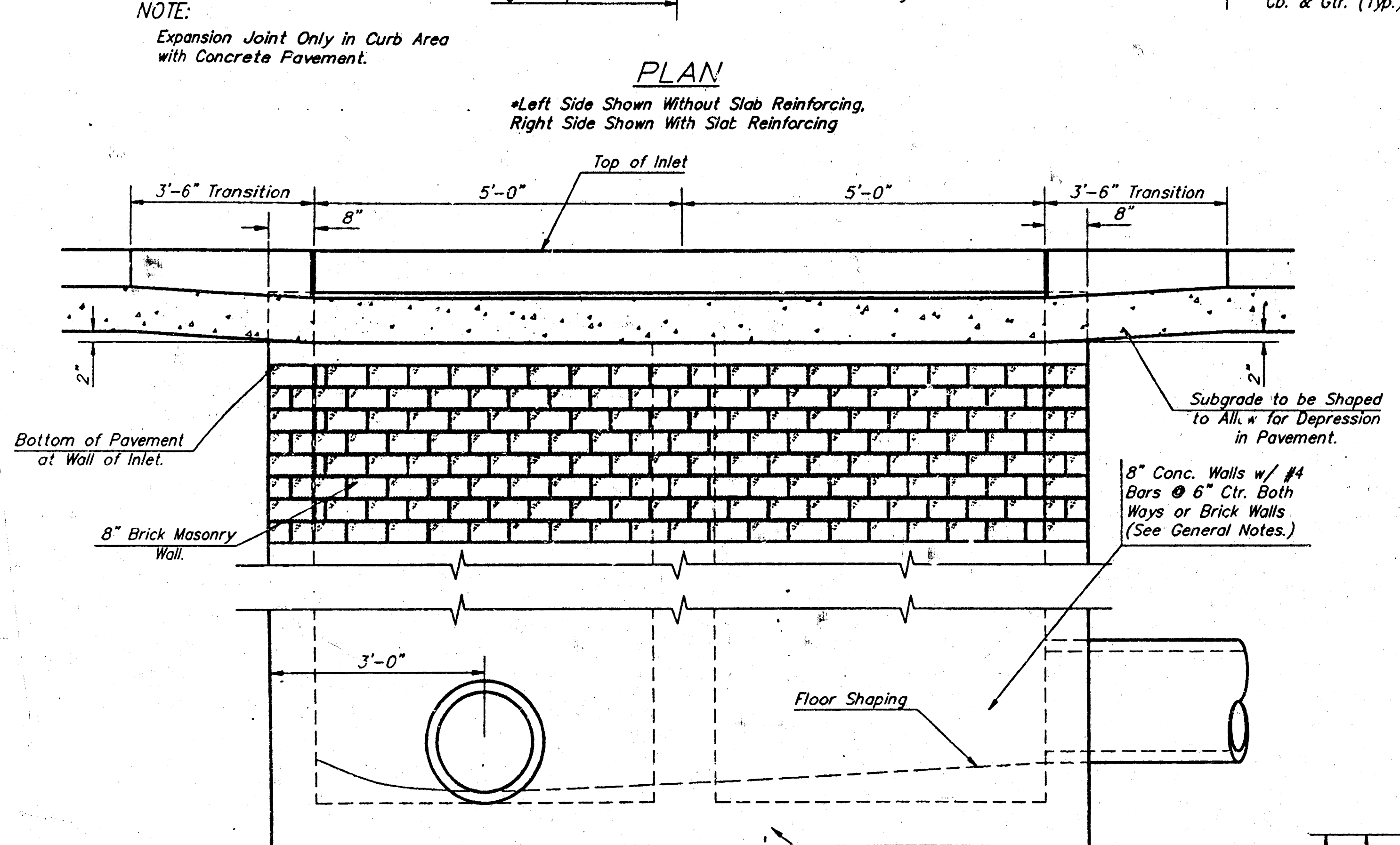
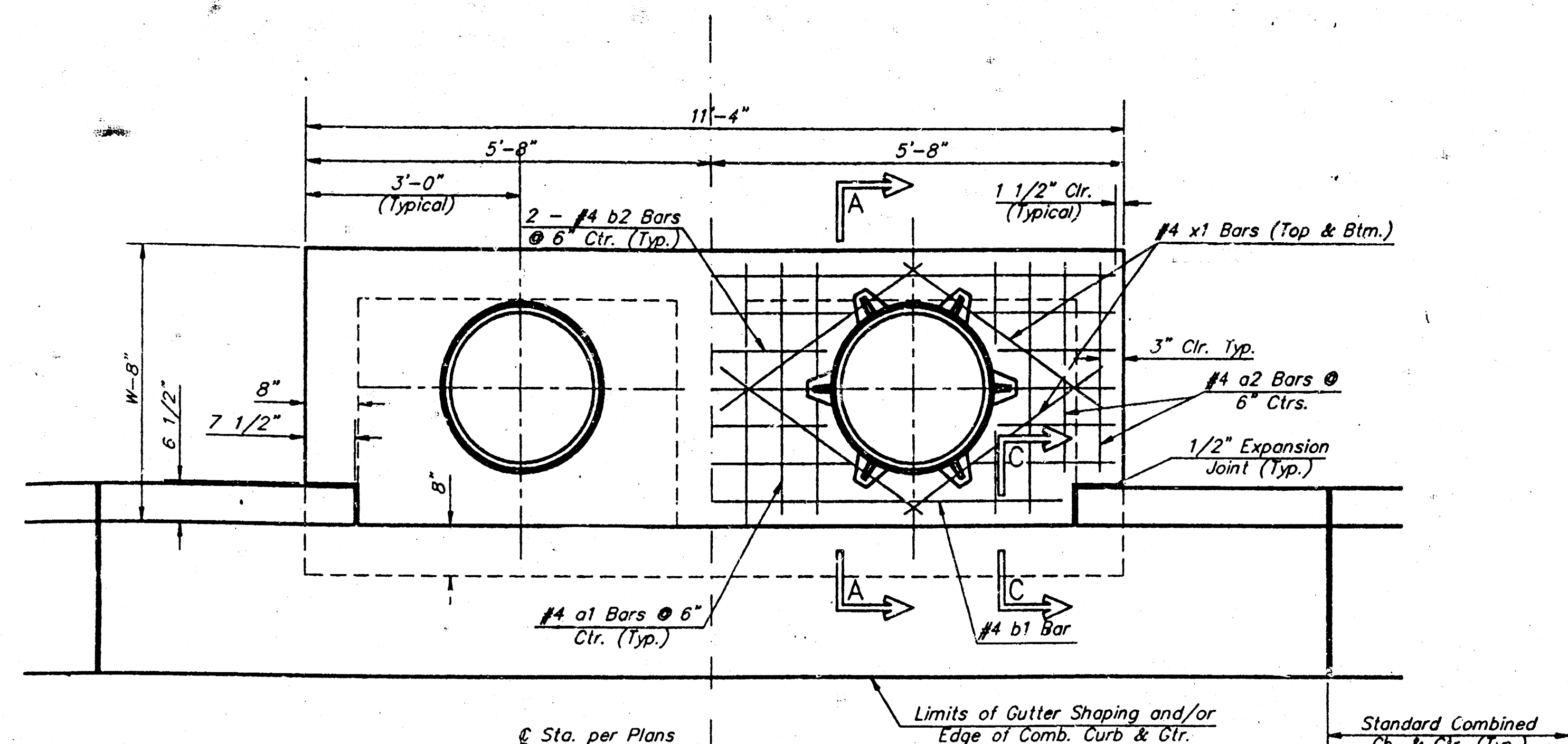


MANHOLE RING AND COVER

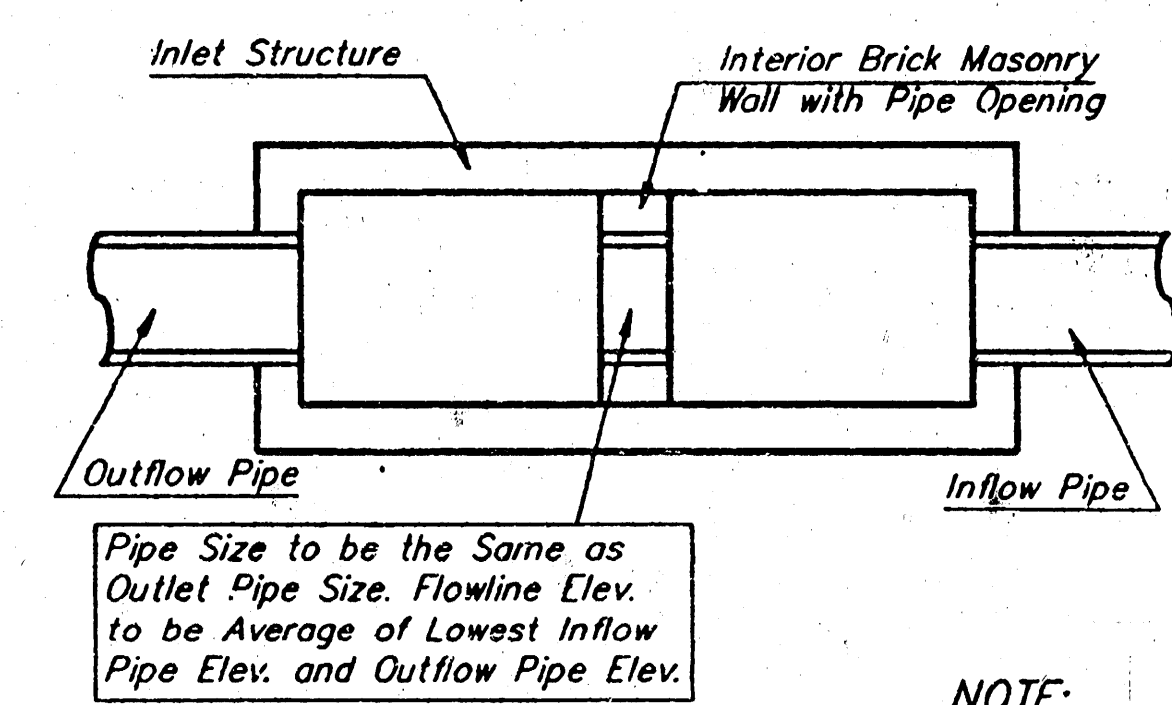
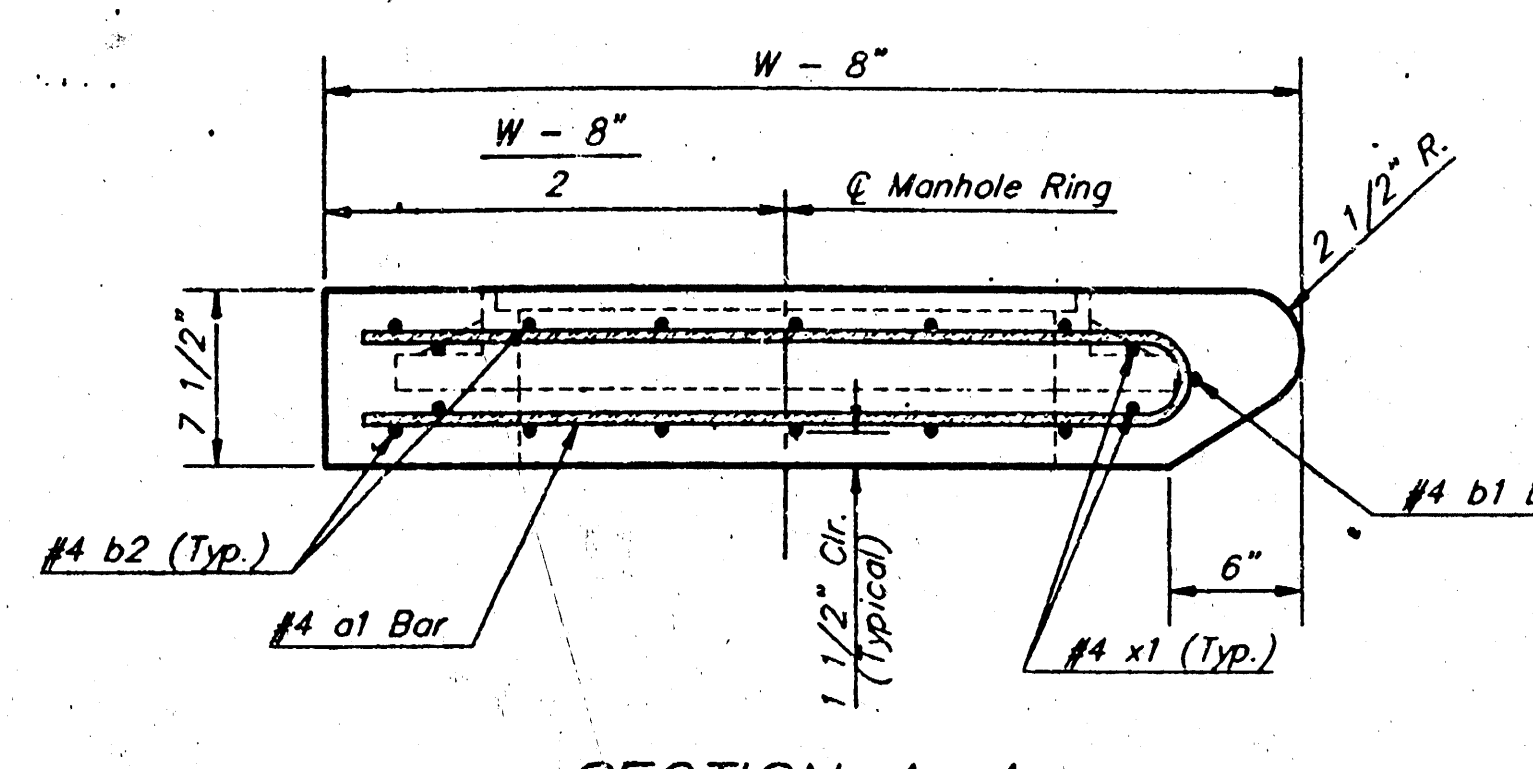
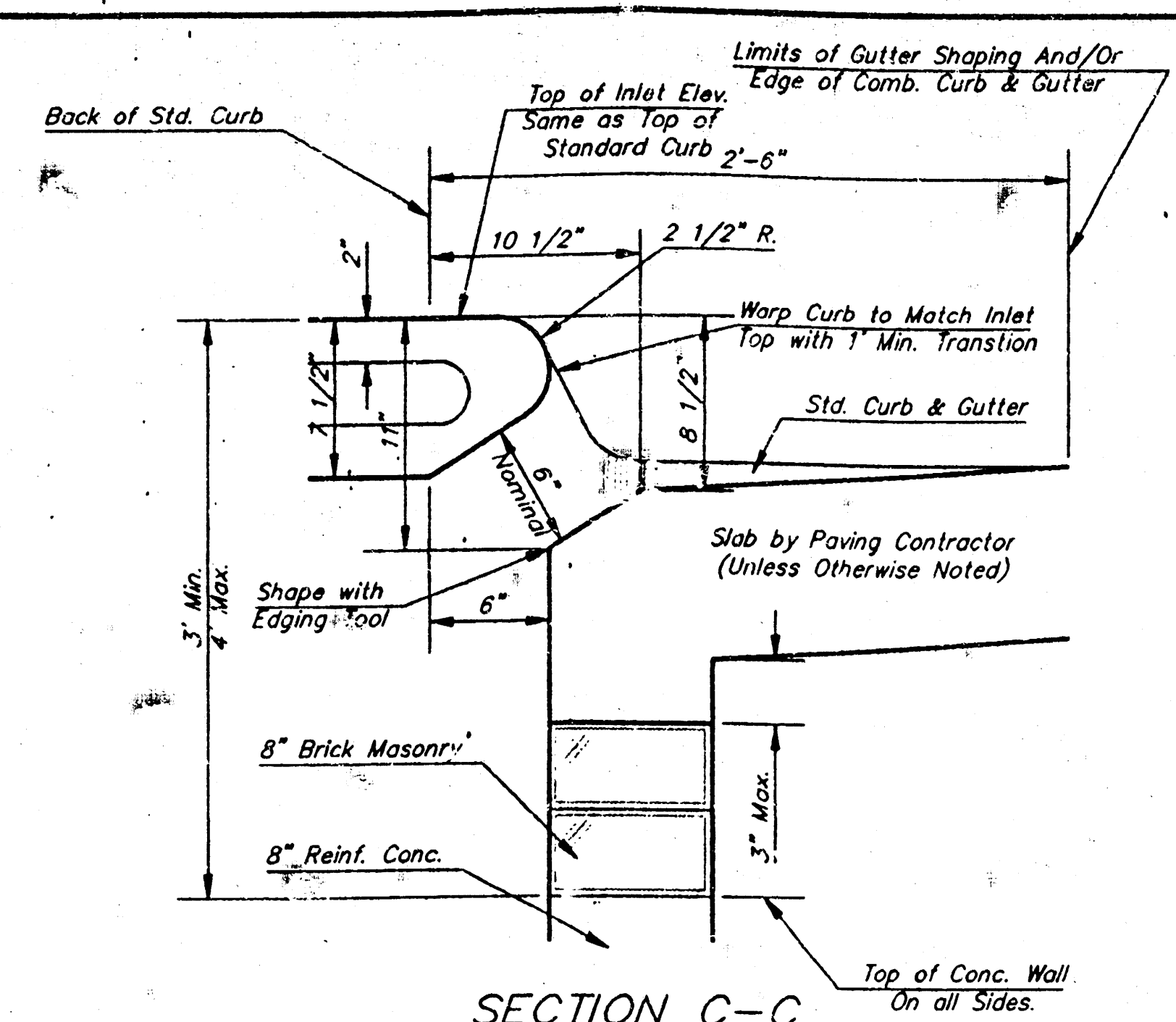
*See City of Wichita Standard Manhole Ring and Cover Detail Sheet for Cover Details to Be Used With Inlet Frame.



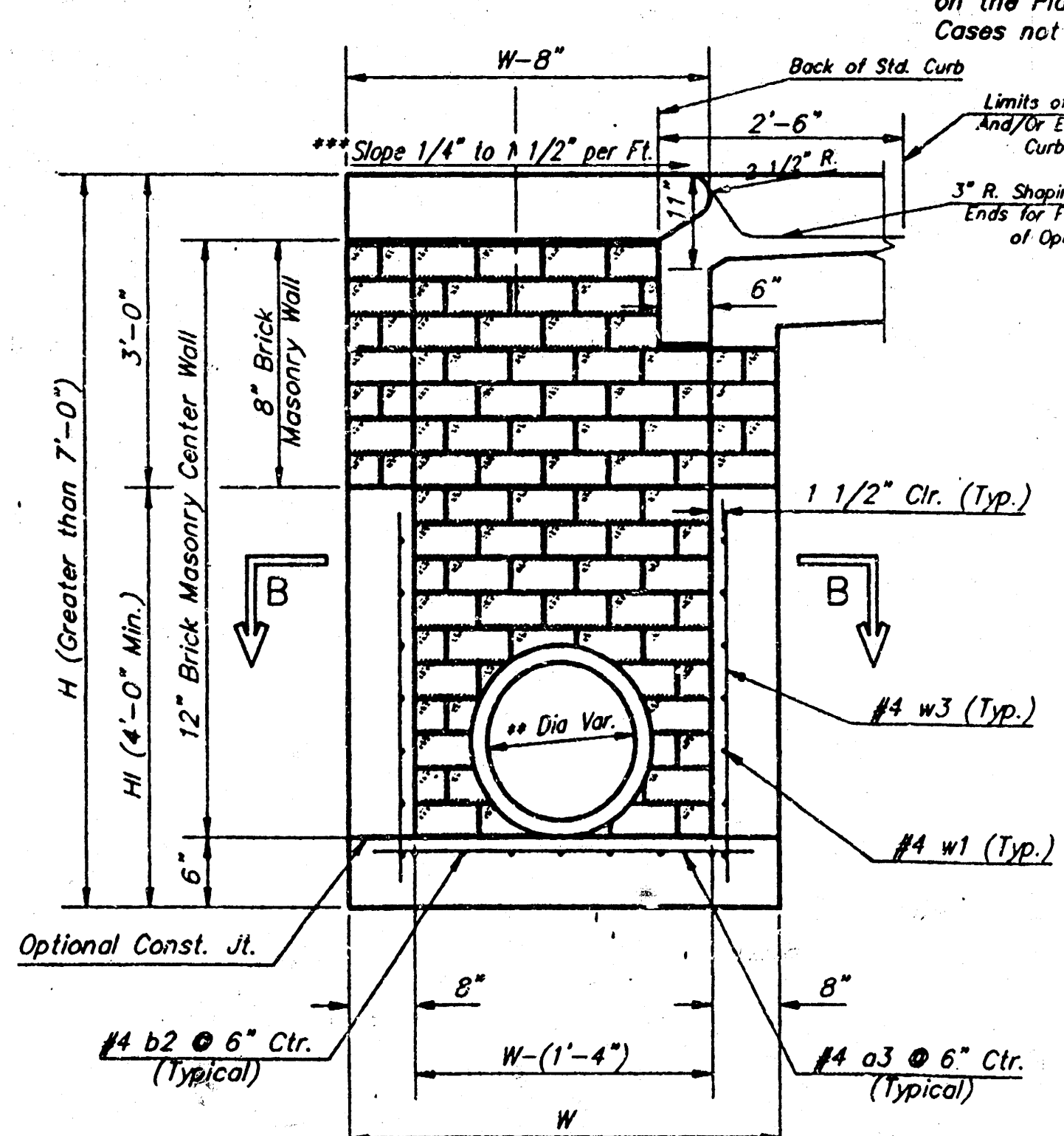
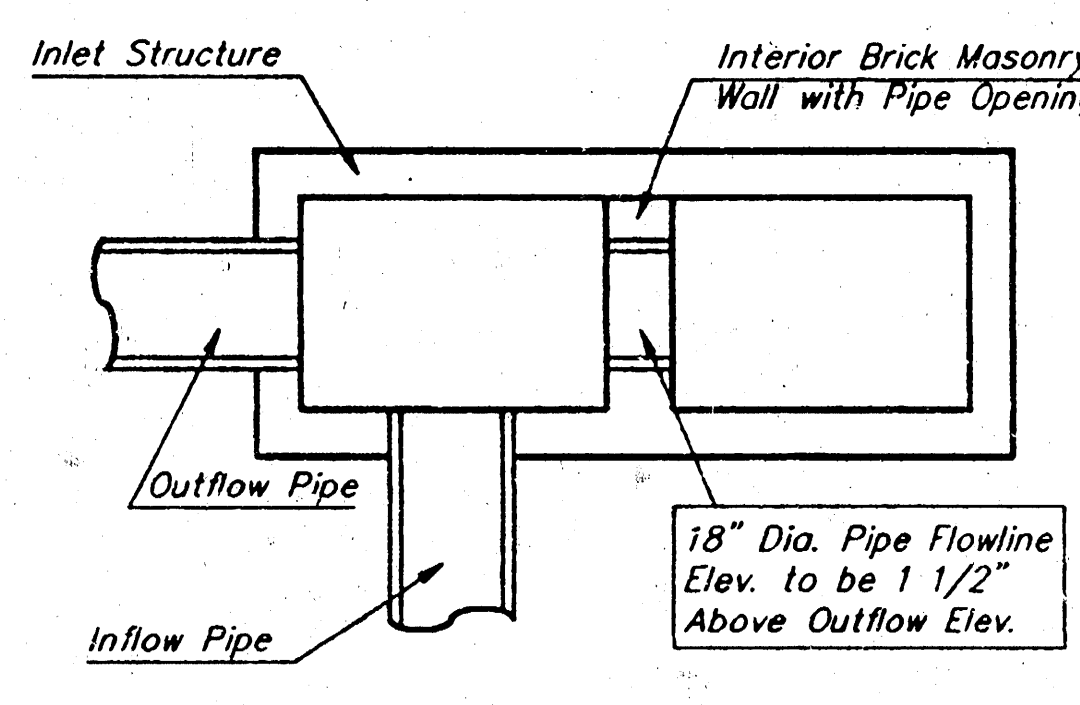
CITY OF WICHITA, KANSAS			
STANDARD TYPE 1 INLET DETAILS			
LOT 1, BONANZA ADDITION			
SRB	924 NORTH MAIN WICHITA, KANSAS 67203	316-264-8008 FAX 264-4621	REVISED
SAVOY, RUGGLES & BOHM, P. A. ENGINEERING & SURVEYING			
PROJECT NUMBER 496 PPS (607861)			
DRAWN J. Long	CHECKED T.C.R.	REVIEW	DATE Sept. 6, 1994
		UTILITY T.C.R.	SRI JOB 150E
			SHEET 3 OF 6



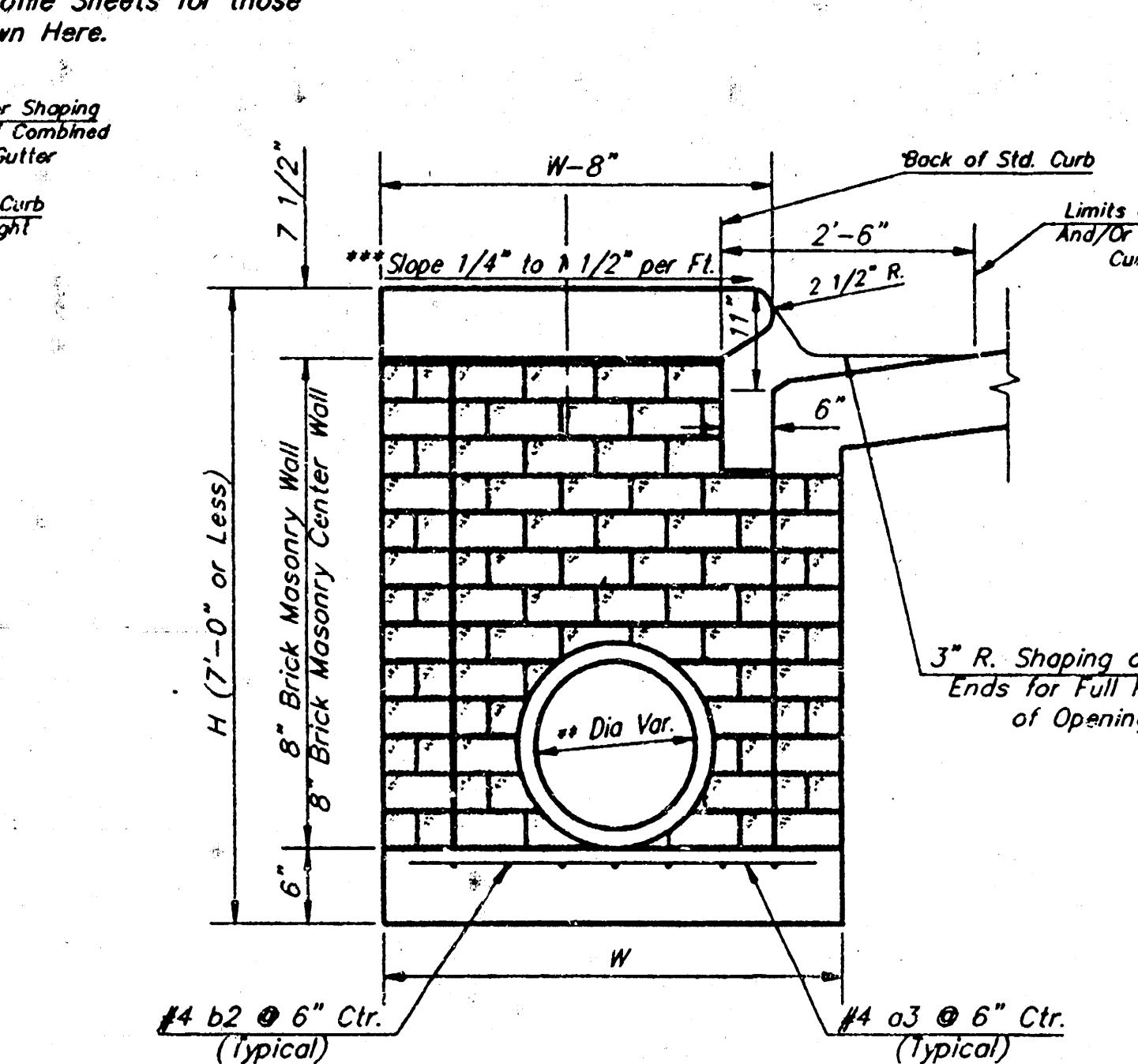
SECTION B-B



NOTE: Center Wall Pipe Size shall be as Specified in Inlet Construction Notes on the Plan/Profile Sheets for those Cases not Shown Here.



TYPICAL INLET SECTION AT CENTER WALL (Reinforced Concrete Walls)



TYPICAL INLET SECTION AT CENTER WALL (Masonry Walls)

NOTES:

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

** Slope of inlet tops to match sidewalk of parking slopes within limits indicated

PRECAST SLAB AND FLOOR REINFORCING											
W = 4'-4"			W = 5'-4"			W = 6'-4"			W = 7'-4"		
MARK	SIZE	NO.	MARK	SIZE	NO.	MARK	SIZE	NO.	MARK	SIZE	NO.
a1	#4	13	a1	#4	13	a1	#4	13	a1	#4	13
a2	#4	4	a2	#4	4	a2	#4	4	a2	#4	4
a3	#4	23	a3	#4	23	a3	#4	23	a3	#4	23
b1	#4	1	b1	#4	1	b1	#4	1	b1	#4	1
a2	#4	23	a2	#4	29	a2	#4	35	a2	#4	41
x1	#4	16	x1	#4	16	x1	#4	16	x1	#4	16

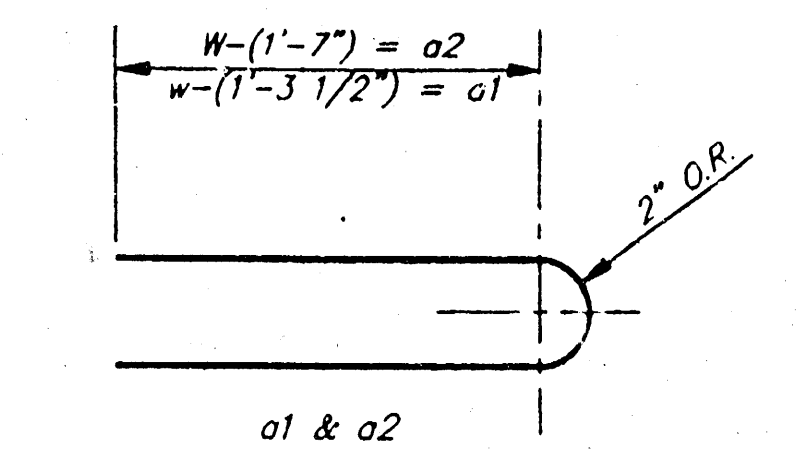
WALL REINFORCING											
W = 4'-4"			W = 5'-4"			W = 6'-4"			W = 7'-4"		
MARK	SIZE	NO.	MARK	SIZE	NO.	MARK	SIZE	NO.	MARK	SIZE	NO.
w1	#4	1	w1	#4	1	w1	#4	1	w1	#4	1
w2	#4	1	w2	#4	1	w2	#4	1	w2	#4	1
w3	#4	52	w3	#4	56	w3	#4	60	w3	#4	64

* Field Bend or Cut Reinforcing as Required for Clearance.

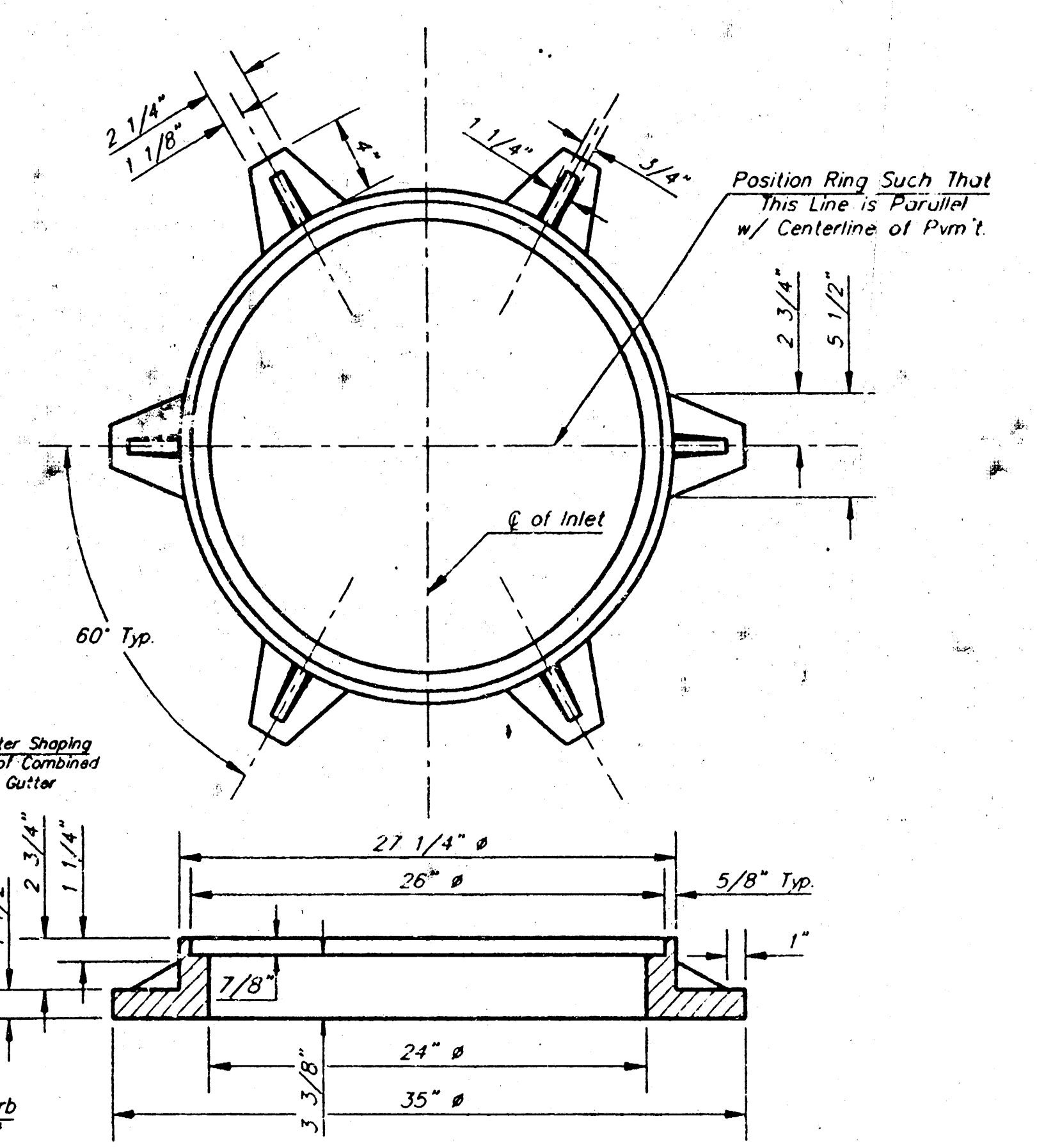
① 4 (H - 12") (H - 21") Rounded down to nearest 0.5"

② H - 3"

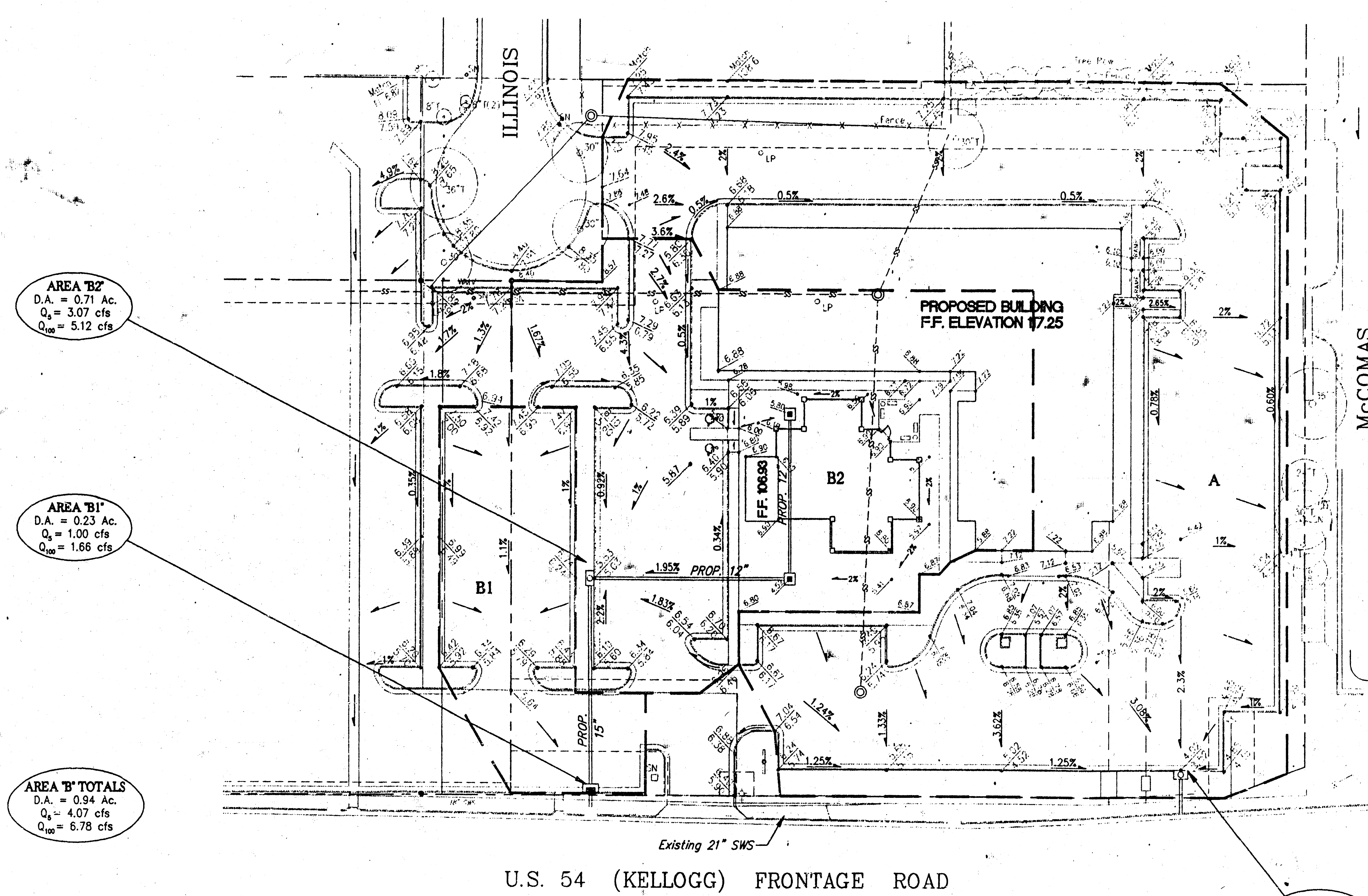
- GENERAL NOTES:
- The contractor shall be required to construct 8" brick masonry walls between the concrete inlet base and top on this inlet when W=6'-4" or less and H=7'-0" or less. When W is greater than 6'-4" and H is less than 7'-0" the outside inlet walls below the brick stack shall be reinforced concrete construction and the center wall shall be of masonry construction as shown for the masonry wall option.
 - Inlet invert shall be shaped with 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.
 - Concrete tops to be installed on thin mortar cushion to insure full support along 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 lids shall be notched out as indicated to facilitate construction of curb. Bars in inlet top to be field bent or cut to clear manhole ring.
 - The ends of all pipes installed in inlets shall be cut off flush with the inside face of the inlet wall.



W	PRE-CAST TOP SIZE	PIPE SIZE	CU. YD. CONC.
4'-4"	3'-8" 11'-4" 7 1/2"	21" & SMALLER	0.83±
5'-4"	4'-8" 11'-4" 7 1/2"	24" & 30"	1.09±
6'-4"	5'-8" 11'-4" 7 1/2"	36" & 42"	1.35±
7'-4"	6'-8" 11'-4" 7 1/2"	48" & 54"	1.61±
8'-4"	7'-8" 11'-4" 7 1/2"	60" & 66"	1.92±



SRB
SCALE:
1"=30'-0"



BENCH MARK

1. Square cut on midpoint of high edge of curb return NE cor. McComas and Frontage Road. Elev. 112.95 City Datum

DRAINAGE CALCULATIONS

PEAK RUNOFF RATES BY RATIONAL METHOD FOR 5-YEAR AND 100-YEAR FREQUENCIES. ($Q = C \times I \times A$).
TIME OF CONCENTRATION = 15 MINUTES
 $C_5 = 0.95$ $C_{100} = 0.98$
 $I_5 = 4.56$ in./hr. $I_{100} = 7.37$ in./hr.
THESE VALUES USED FOR ALL AREAS:
 $Q_5 = 4.33$ cfs/acre
 $Q_{100} = 7.22$ cfs/acre

TOTAL AREA OF LOT 1, BONANZA ADD'N = 2.09 Acres
IMPERVIOUS AREA = 96.7%
PERVIOUS AREA = 3.3%
SITE INCLUDES 0.20 AC. WEST OF AND ADJACENT TO LOT 1.

DRAINAGE PLAN LOT 1 - BONANZA ADDITION WICHITA, KANSAS							
SRB		924 NORTH MAIN WICHITA, KANSAS 67203		316-264-8008 FAX 264-4621		REVISED	
SAVOY, RUGGLES & BOHM, P.A. ENGINEERING & SURVEYING							
PROJECT NUMBER 496 PPS (607861)							
DRAWN J. Long	DESIGN T.C.R.	REVIEW	DATE Sept. 6, 1994	UTILITY T.C.R.	SRJ JOB 150E	SHEET 5 6	

BONANZA ADDITION

WICHITA, SEDGWICK COUNTY, KANSAS

POINT OF BEGINNING

N.W. COR. OF LOT 20, BLK. 1
EUREKA GARDENS

ILLINOIS

UTILITY

EASEMENT

SETBACK

BUILDING

COMPLETE

ACCESS

CONTROL

CONDEMNATION CASE NO. 84C-3495

KELLOGG FRONTAGE ROAD

COMP. ACCESS CONTROL 63.9'

PRIVATE INGRESS/EGRESS EASEMENT FILM 100B, PG. D801

35'

70'

30'

315.23'

N 22°58'4" W

COMPLETE

ACCESS

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CONDEMNATION CASE NO. 84C-3495

58°22'10" W

67.10'

10.5'

285.37'

S 02°35' W

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214.59'

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60'

214.59'

1. RAYMOND W. HUBBELL, THE UNDERSIGNED, REGISTERED LAND SURVEYOR OF THE STATE OF KANSAS, DO HEREBY CERTIFY THAT I CAUSED TO HAVE SURVEYED AND PLATTED BONANZA ADDITION, MOCHITA, SEDGWICK COUNTY, KANSAS, DESCRIBED AS BEGINNING AT A POINT ON THE WEST CORNER OF BLOCK 12 OF SAID TOWNSHIP 36 NORTH, RANGE 10 WEST, (NO. 10 MOCHITA), SAID PLAT BEING 140.72 FEET EAST OF THE NORTHWEST CORNER OF SAID LOT 20, BLOCK 1; THENCE SOUTH, PARALLEL WITH THE EAST LINE OF SAID LOT 20, BLOCK 1, 100 FEET TO THE NORTH LINE OF LOT 23, BLOCK 2 OF SAID DUREKA GARDENS; THENCE EAST ALONG SAID NORTH LINE A DISTANCE OF 40 FEET; THENCE SOUTH PARALLEL WITH AND 30 FEET EAST OF THE WEST LINE OF LOT 4 OF SAID PARKWAY ADDITION TO THE SOUTH LINE OF SAID PARKWAY ADDITION; THENCE EAST ALONG SAID SOUTH LINE OF LOT 23, BLOCK 2 OF SAID DUREKA GARDENS TO A POINT 35 FEET WEST OF THE EAST LINE OF SAID LOT 23, BLOCK 2; THENCE EAST ALONG SAID EAST LINE OF SAID LOT 23, BLOCK 2 TO THE EAST LINE OF SAID LOT 10, BLOCK 2 OF SAID DUREKA GARDENS; THENCE SOUTH ALONG SAID EAST LINE OF SAID LOT 10, BLOCK 2 OF SAID DUREKA GARDENS TO THE SOUTHEAST CORNER OF SAID LOT 23; THENCE NORTH ALONG THE EAST LINE OF SAID BLOCK 2 TO THE NORTHEAST CORNER OF LOT 20, BLOCK 2 OF SAID DUREKA GARDENS; THENCE WEST ALONG SAID NORTH LINE OF LOT 20, BLOCK 2 OF SAID DUREKA GARDENS TO THE WEST CORNER OF SAID LOT 20, BLOCK 2 OF SAID DUREKA GARDENS; THENCE WEST ALONG SAID WEST LINE OF SAID LOT 20, BLOCK 2 TO THE POINT OF BEGINNING, ALL LYING IN SEDGWICK COUNTY, KANSAS, AND LOT 10, SAID BLOCK 2 OF SAID DUREKA GARDENS, BEING THE SAME AS SHOWN ON PLAT NO. 10, SAID TOWNSHIP 36 NORTH, RANGE 10 WEST, MOCHITA, SEDGWICK COUNTY, KANSAS.

DATE SIGNED APRIL 8, 1994

NORTH LINES OF LOT 20, AND LOT 10
 ING IN SEDGWICK COUNTY, KANSAS

RAYMOND M. HUBBELY
 REGISTERED
 4/8/94
 LUTS
 KANSAS
 RAYMOND M. HUBBELY
 1230 S. BRUNNEN
 66157

KNOW ALL MEN BY THESE PRESENTS, THAT WE, THE UNDERSIGNED, OWNERS OF THE LAND DESCRIBED IN THE SURVEYOR'S CERTIFICATE TO BE PLATTED INTO A LOT AND STREET TO BE KNOWN AS BOND STREET, ADDITION, WICHITA, GEORGE COUNTY, KANSAS, THE UTILITY EASEMENTS INDICATED ARE HEREBY GRANTED TO THE PUBLIC FOR CONSTRUCTION AND MAINTENANCE OF ALL PUBLIC UTILITIES, AND FOR DRAINAGE PURPOSES WITH RIGHTS OF INGRESS AND EGRESS, AND THE STREET IS HEREBY DEDICATED TO AND FOR USE OF THE PUBLIC. THE EASEMENTS AND THAT PART OF LLUNOIA AVENUE DEDICATED BY PREVIOUS PLATS ARE VACATED IN ACCORDANCE WITH KSA 12-512(b).

ALL ABUTTER'S RIGHTS OF ACCESS TO AND FROM MCCOMAS, OVER AND ACROSS THE EAST LINE OF LOT 1; AND ALL ABUTTERS RIGHTS OF ACCESS TO AND FROM KELLOGG FRONTAGE ROAD OVER AND ACROSS THE SOUTH LINE OF LOT 1, AS SHOWN ARE HEREBY GRANTED TO THE CITY OF WICHTA, PROVIDED, HOWEVER, THAT LOT 1 SHALL HAVE ACCESS TO KELLOGG FRONTAGE ROAD AT ONE LOCATION, AS SHOWN ON PLAT.

DATE SIGNED APRIL 8 1981

BONANZA, INC.


JACK HUNT, PRESIDENT

STATE OF KANSAS)
COUNTY OF SEDGWICK) ss

THIS INSTRUMENT WAS ACKNOWLEDGED BEFORE ME ON 8th DAY OF APRIL 1984, BY JACK R. HUNT, PRESIDENT, ON BEHALF OF BONANZA, INC.

SEAL OR STAMP

Carol M. Palmer
CAROL M. PALMER NOTARY PUBLIC

SEAL OR STAMP

MY APPOINTMENT EXPIRES April 29, 1996

STATE OF KANSAS)
COUNTY OF SEDGWICK) ss

WE, SOUTHWEST NATIONAL BANK, HOLDERS OF A MORTGAGE ON THE ABOVE DESCRIBED PROPERTY DO HEREBY CONSENT TO THE PLAT OF ROMANZA ADDITION, WICHITA, KANSAS.

DATE SIGNED APRIL 8, 19

SOUTHWEST NATIONAL BANK

1934
SOUTHWEST NATIONAL
Robert Hooper
ROBERT HOOPER PRESIDENT

STATE OF KANSAS)
COUNTY OF SEDGWICK) ss

THIS INSTRUMENT WAS ACKNOWLEDGED BEFORE ME ON 8th DAY OF APRIL
1994, BY ROBERT HOOPES, PRESIDENT, ON BEHALF OF SOUTHWEST NATIONAL BANK.

SEAL OR STAMP

MOIRA VANLANDINGHAM
Notary Public - State of Kansas
My Comm. Expires 12/31/2014

MIRA VAN LINDINGHAM NOTARY PUBLIC

MY APPOINTMENT EXPIRES: OCTOBER 27, 1997