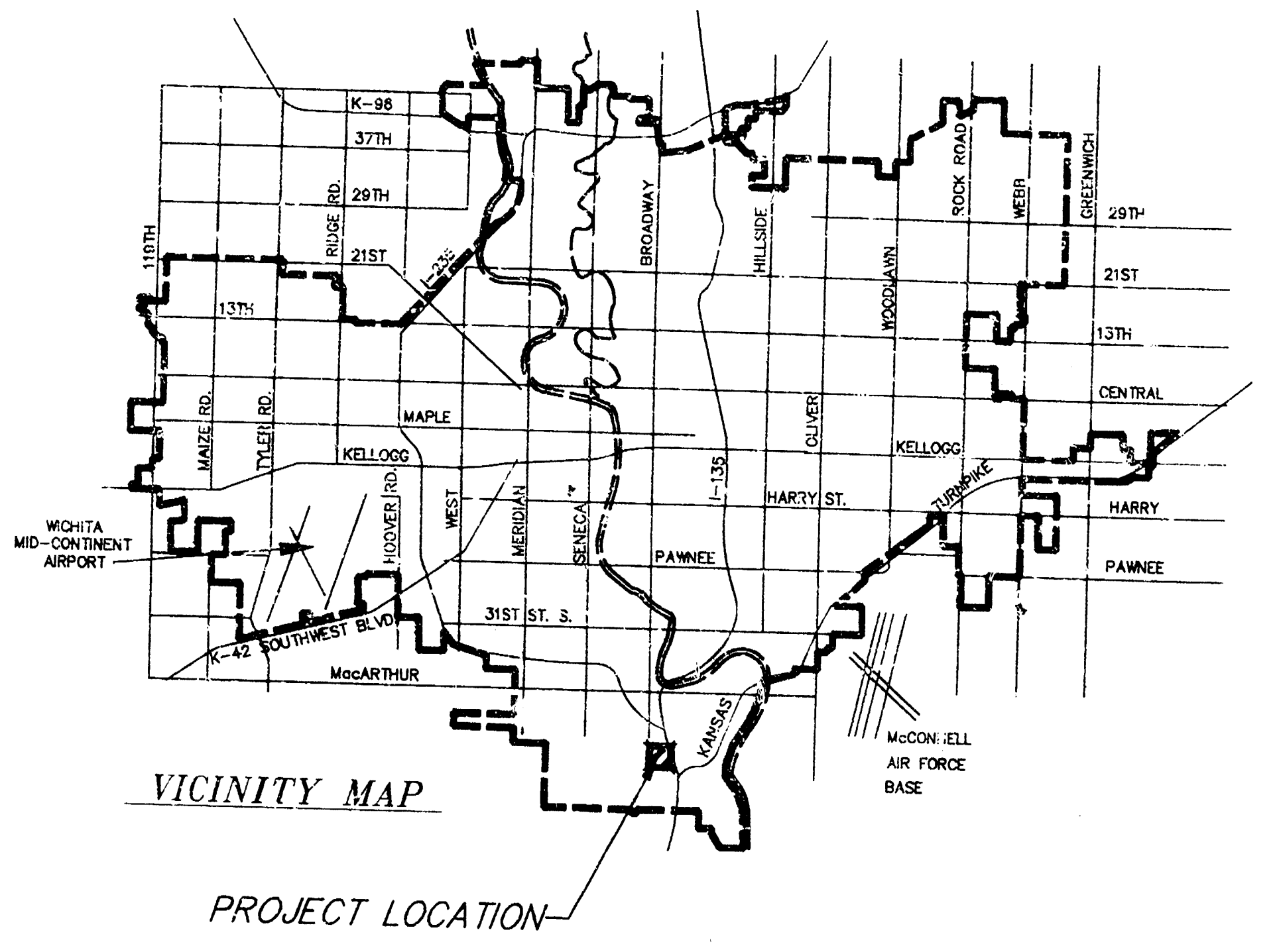
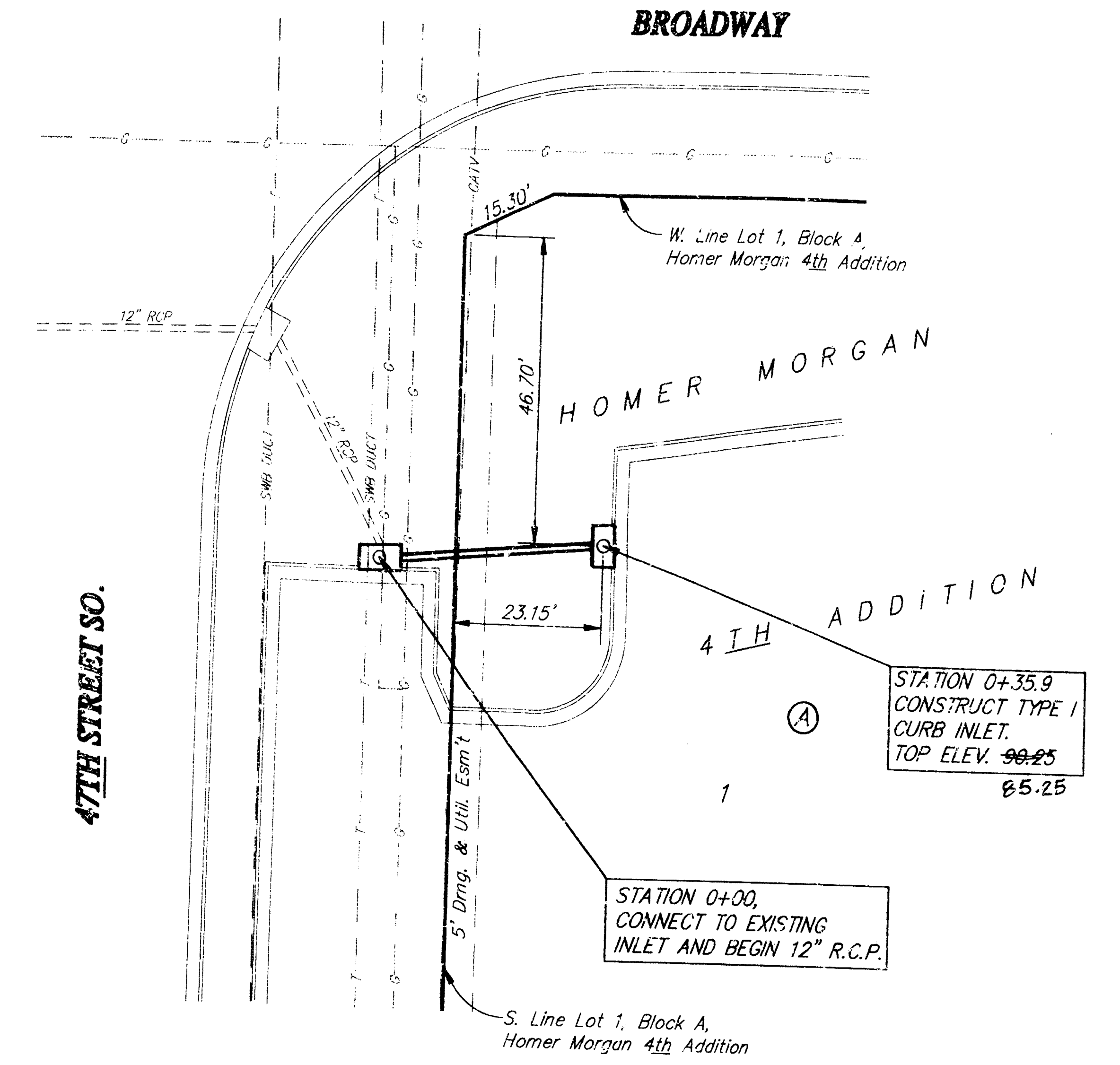
BENCH MARK:

CITY OF WICHITA DISC IN NE CORNER OF CONCRETE BASE OF SIGNAL POLE. SW CORNER 47TH STREET AND BROADWAY.
ELEVATION = 87.44 CITY DATUM


K-96
37TH
29TH
21ST
13TH
CENTRAL
MAPLE
KELLOGG
HARRY
PAWNEE
HARTY ST.
31ST ST. S.
K-42 SOUTHWEST BLVD.
MacARTHUR
BROADWAY
HILLSIDE
OLIVER
WOODLAWN
ROCK ROAD
WEBB
GREENWICH
I-135
WEST
MERIDIAN
SENECA
HOOVER
TYLER RD.
MAIZE RD.
RIDGE
119TH
KANSAS
WICHITA MID-CONTINENT AIRPORT
McCONNELL AIR FORCE BASE

VICINITY MAP

PROJECT LOCATION


BROADWAY
47TH STREET SO.
12" RCP
12" RCP
SWB DUCT
SWB DUCT
CATV
G
15.30'
46.70'
23.15'
W. Line Lot 1, Block A, Homer Morgan 4th Addition
HOMER MORGAN 4TH ADDITION
Ⓐ
1
5' Drng. & Util. Esm't
S. Line Lot 1, Block A, Homer Morgan 4th Addition

STATION 0+35.9
CONSTRUCT TYPE I
CURB INLET.
TOP ELEV. ~~90.25~~
85.25

STATION 0+00,
CONNECT TO EXISTING
INLET AND BEGIN 12" R.C.P.

SCALE:
1"=20' PLAN
1"=5' PROFILE

APPROVED AS NOTED
BY CITY ENGINEER OF WICHITA

Sanitary Sewers ____________
Storm Sewers VRH 6/13/94
Driveway Approaches ____________
Water Mains ____________
Paving ____________

SPECIAL NOTE

This plan is as-built. Construction was complete at time of plan preparation JCR

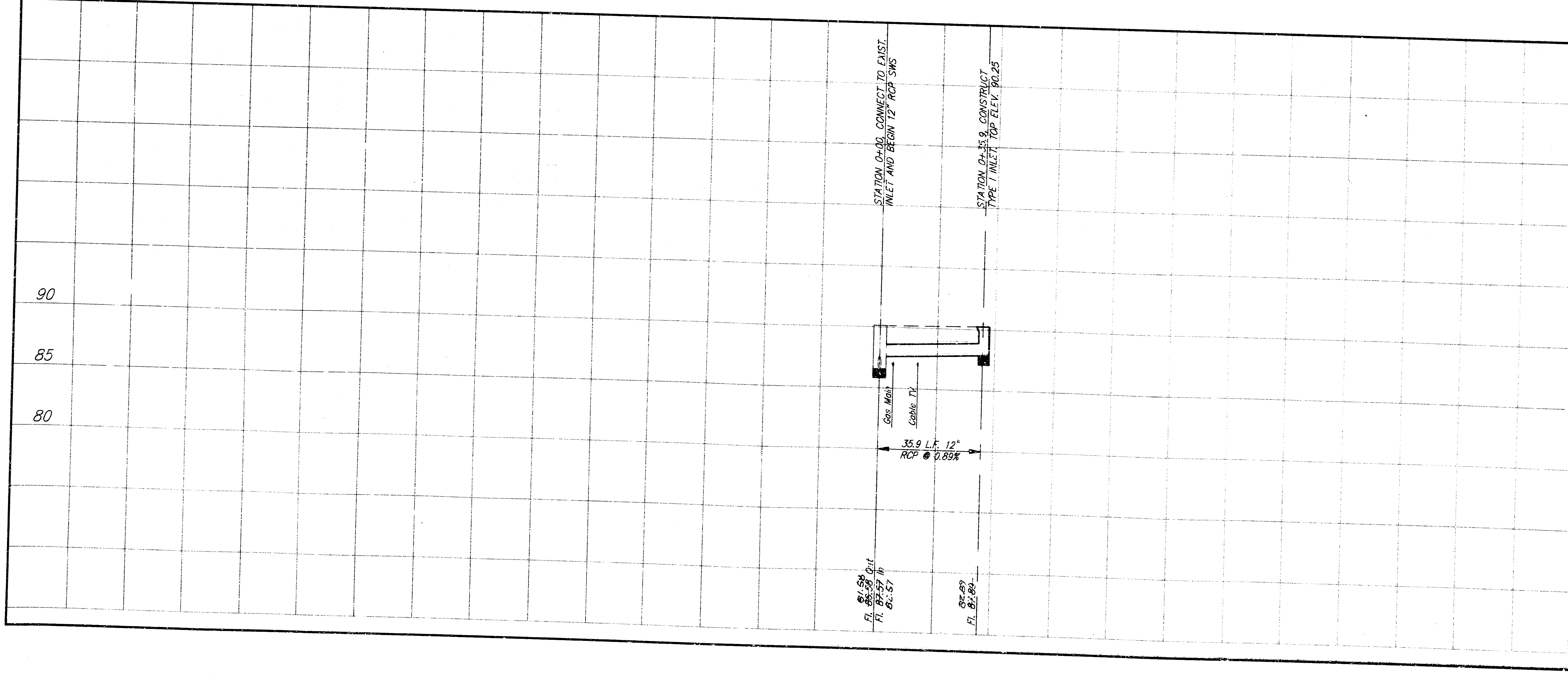
THOMAS CHARLES RUGGLES 9621 6-10-94

Thomas C Ruggles

RUNOFF (BY RATIONAL METHOD):

$A = 1.5$ ac
$C_5 = 0.90$
$I_5 = 4.56"/hr.$
$Q_5 = 6.2$ cfs

$T_c = 15$ minutes
$C_{100} = 0.97$
$I_{100} = 7.37"/hr.$
$Q_{100} = 10.7$ cfs


90
85
80
STATION 0+00, CONNECT TO EXIST. INLET AND BEGIN 12" RCP SWS
STATION 0+35.9, CONSTRUCT TYPE I INLET. TOP ELEV. 90.25
Gas Main
Cable TV
35.9 L.F. 12" RCP @ 0.89%
81.58
Fl. ~~86.58~~ Out
Fl. ~~87.57~~ In
82.57
82.89
Fl. ~~87.89~~
~~85~~90
~~80~~85
~~80~~

BOOKED
B-292
MK

AS BUILT 6-20-94 JCR

PRIVATE STORM WATER SEWER
LOT 1, BLOCK A, HOMER MORGAN 4TH ADDITION

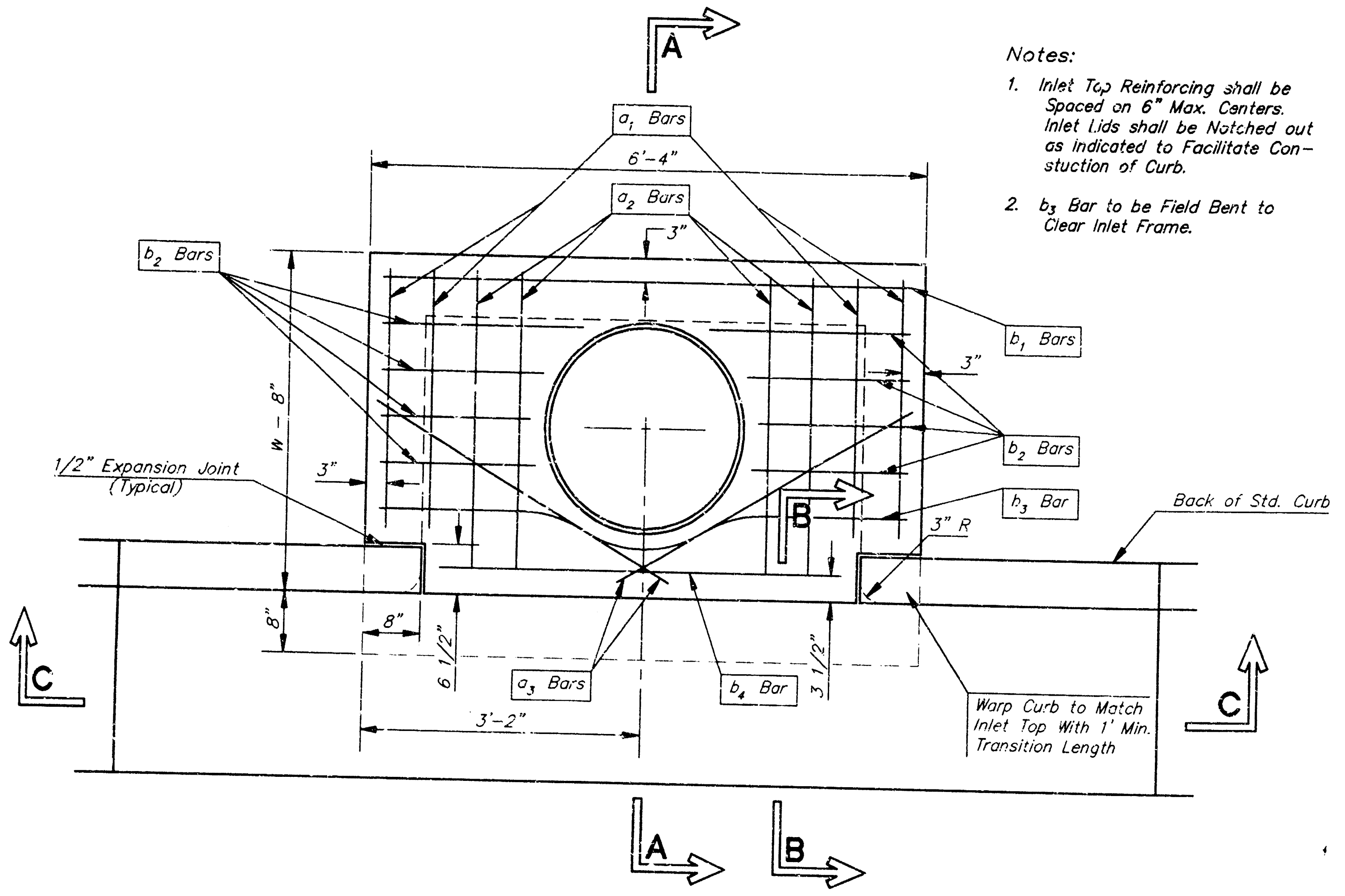
SRB
924 NORTH MAIN
WICHITA, KANSAS 67203
316-264-8008
FAX 264-4621

SAVOY, RUGGLES & BOHM, P.A.
ENGINEERING & SURVEYING

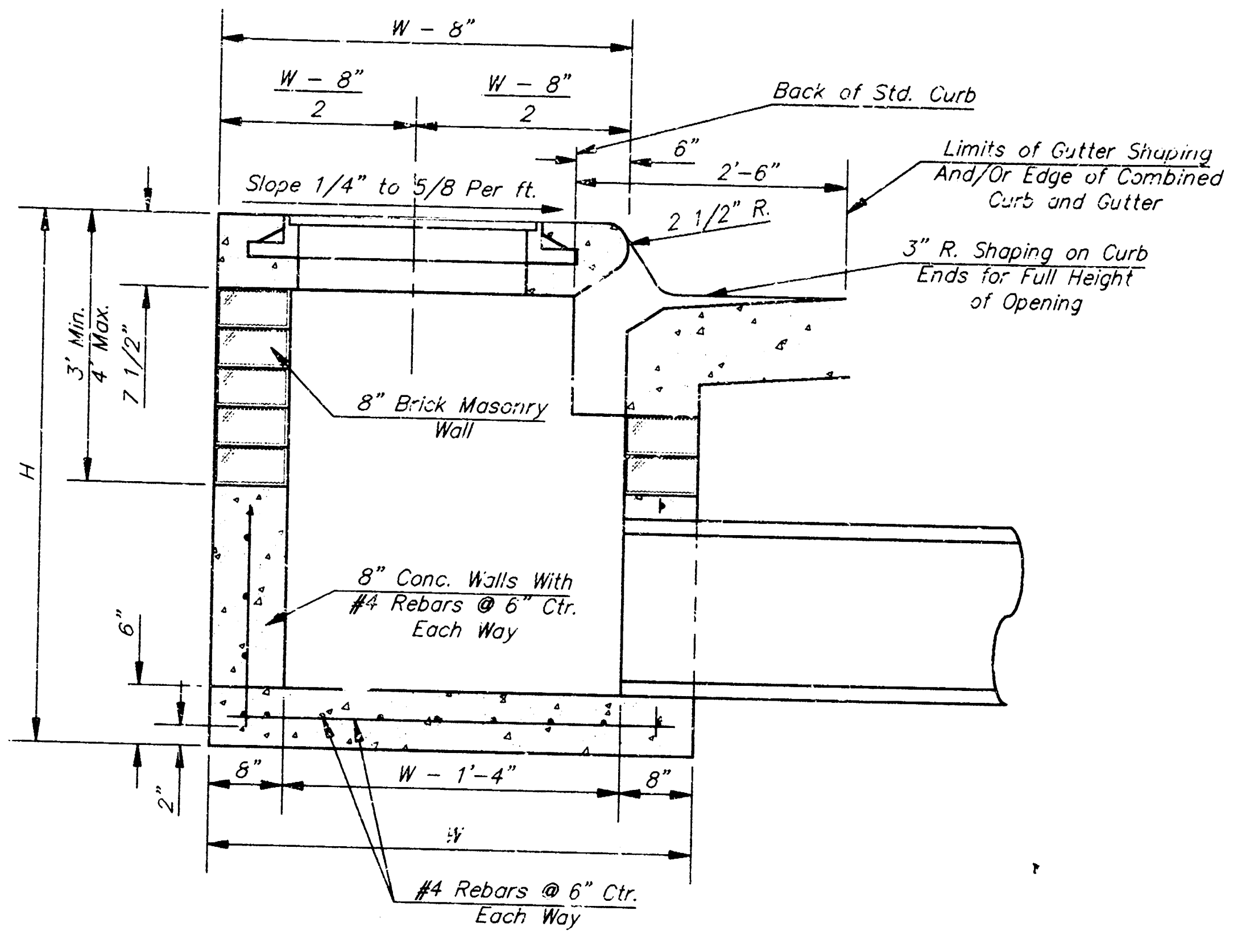
PROJECT NUMBER						REVISED	SHEET
469 PPS (607861)							1
DRAWN	DESIGN	REVIEW	DATE	UTILITY	SRB JOB	DWG FILE	OF
J. Long	T.C.R.		June 10, 1994	T.C.R.	153E	(T.REX)153E\..\SWS	2

Notes:

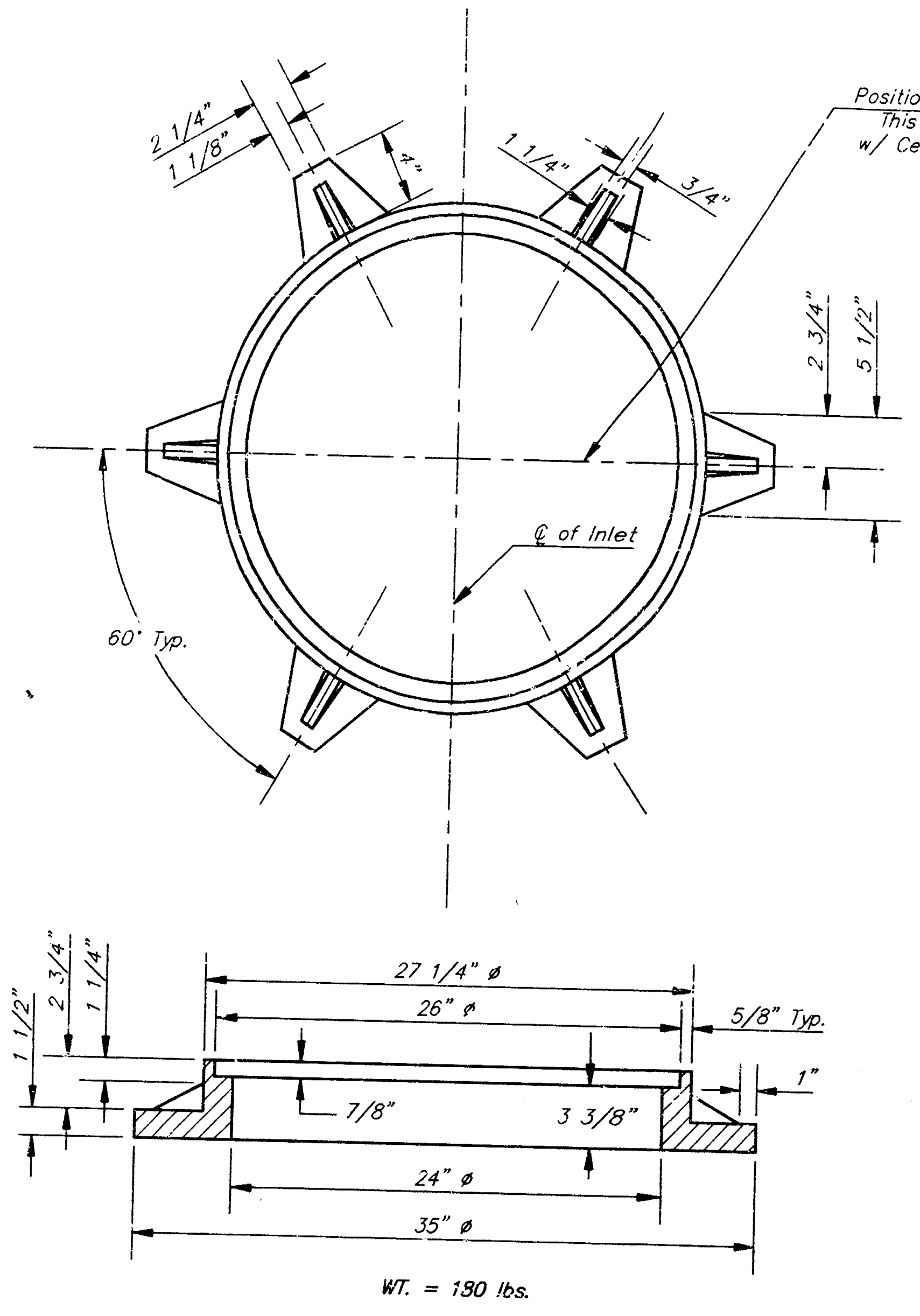
1. Inlet Top Reinforcing shall be Spaced on 6" Max. Centers. Inlet Lids shall be Notched out as indicated to Facilitate Con-stuction of Curb.
2. b_3 Bar to be Field Bent to Clear Inlet Frame.


A
a_1 Bars
6'-4"
a_2 Bars
3"
b_2 Bars
b_1 Bars
b_2 Bars
b_3 Bar
W - 8"
3"
1/2" Expansion Joint (Typical)
3" R
Back of Std. Curb
B
8"
8"
6 1/2"
3 1/2"
a_3 Bars
b_4 Bar
3'-2"
Warp Curb to Match Inlet Top With 1' Min. Transition Length
C
C
A
B

PLAN

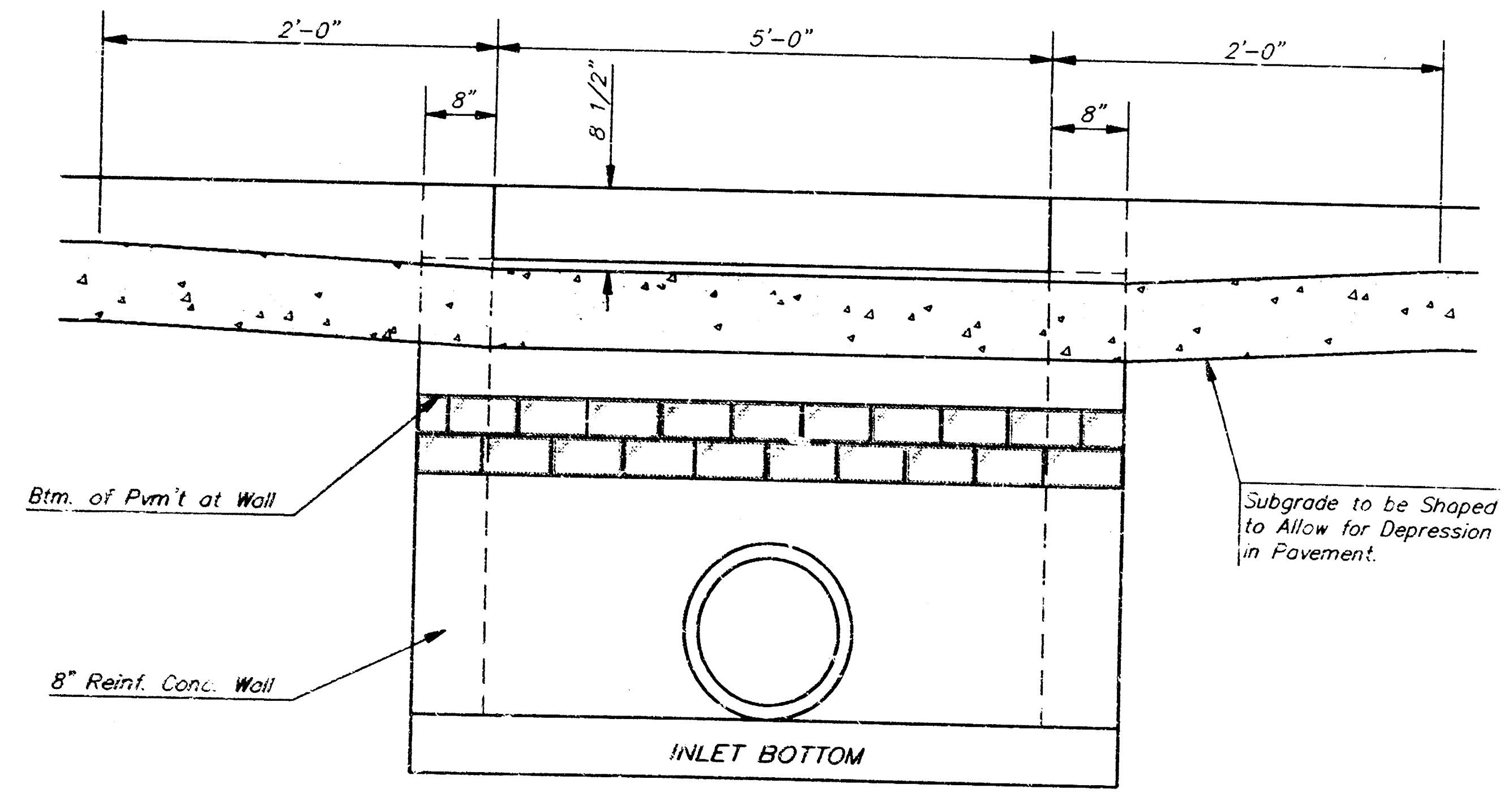

W - 8"
W - 8" / 2
W - 8" / 2
Back of Std. Curb
6"
2'-6"
Limits of Gutter Shaping And/Or Edge of Combined Curb and Gutter
Slope 1/4" to 5/8 Per ft.
2 1/2" R.
3" R. Shaping on Curb Ends for Full Height of Opening
3" Min. 4" Max.
7 1/2"
8" Brick Masonry Wall
H
8" Conc. Walls With #4 Rebars @ 6" Ctr. Each Way
6"
2'
8"
W - 1'-4"
8"
W
#4 Rebars @ 6" Ctr. Each Way

SECTION A–A

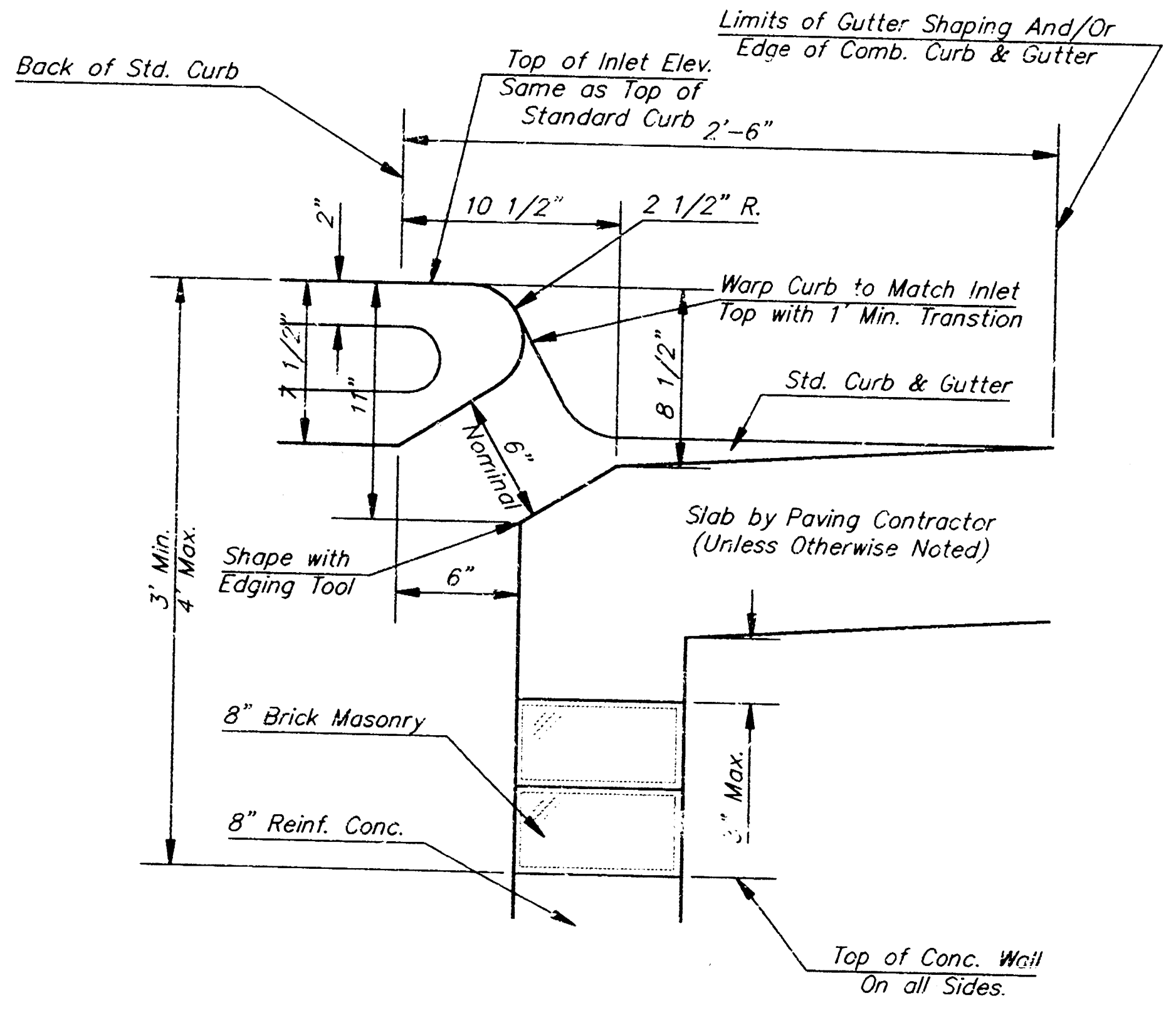

Position Ring Such That This Line is Parallel w/ Centerline of Pvm't.
2 1/4"
1 1/8"
1 1/4"
3/4"
2 3/4"
5 1/2"
℄ of Inlet
60° Typ.
1 1/2"
2 3/4"
1 1/4"
27 1/4" ø
26" ø
5/8" Typ.
7/8"
3 3/8"
1"
24" ø
35" ø
WT. = 190 lbs.

MANHOLE RING AND COVER

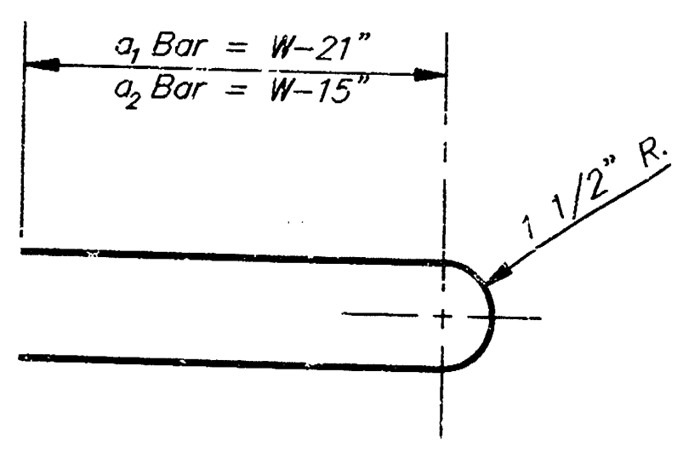
*See City of Wichita Standard Manhole Ring and Cover Detail Sheet for Cover Details to Be Used With Inlet Frame.


2'-0"
5'-0"
2'-0"
8"
8 1/2"
8"
Btm. of Pvm't at Wall
Subgrade to be Shaped to Allow for Depression in Pavement.
8" Reinf. Conc. Wall
INLET BOTTOM

SECTION C–C


Back of Std. Curb
Top of Inlet Elev. Same as Top of Standard Curb
Limits of Gutter Shaping And/Or Edge of Comb. Curb & Gutter
2'-6"
2"
10 1/2"
2 1/2" R.
Warp Curb to Match Inlet Top with 1' Min. Transition
1 1/2"
1"
8 1/2"
6" Nominal
Std. Curb & Gutter
Slab by Paving Contractor (Unless Otherwise Noted)
Shape with Edging Tool
6"
3' Min. 4' Max.
8" Brick Masonry
8" Reinf. Conc.
7' Max.
Top of Conc. Wall On all Sides.

SECTION B–B


a_1 Bar = W–21"
a_2 Bar = W–15"
1 1/2" R.

BENDING DIAGRAM

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	#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'-3"	6'-2"	4'-8"	141±

Note: a_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"	3'-8" 6'-4" 7 1/2"	21" & SMALLER	0.39±
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

1. 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.
2. 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.
3. 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.
4. The ends of all pipes installed in inlets shall be cut off flush with the inside face of the inlet wall.

STANDARD TYPE 1 INLET DETAILS
CITY OF WICHITA, KANSAS

SRB
924 NORTH MAIN
WICHITA, KANSAS 67203
316-264-8008
FAX 264-4621
SAVOY, RUGGLES & BOHM, P.A.
ENGINEERING & SURVEYING

PROJECT NUMBER
469 PPS (607861)

DRAWN
DESIGN
REVIEW
DATE June 10, 1994
UTILITY
SRB JOB 153E
REVISED
DWG. FILE (T.REX)153E\..\STYP1-S
2
2