PRIVATE
STORM SEWER PLANS FOR
FOLIAGE 2ND ADDITION
INDEX NO. 607861
USER CODE 306 PPS

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

APPROVED AS NOTED
By CITY ENGINEER OF WICHITA

Sanitary Sewers _____
Storm Sewers 10/2 9/24/91
Driveway Approaches _____
Water Mains _____
Paving _____

NOTE TO CONTRACTOR

INSPECTION AND TESTING FOR THIS PROJECT IS TO BE PROVIDED BY A LICENSED CONSULTING ENGINEERING FIRM UNDER CONTRACT WITH THE OWNER/DEVELOPER. SAID 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 THE PUBLIC RIGHT-OF-WAY BY THE CONTRACTOR WITHOUT SUCH INSPECTION NOR SHALL ANY WORK BE COMMENCED IN DEDICATED EASEMENTS OR PUBLIC RIGHT-OF-WAY WITHOUT WRITTEN AUTHORIZATION BY THE CITY ENGINEER.

GENERAL NOTES

1. UNLESS SHOWN OR STATED OTHERWISE ON THESE DRAWINGS, MATERIALS AND CONSTRUCTION SHALL BE IN ACCORDANCE WITH CITY OF WICHITA SPECIFICATIONS.
2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PRESERVING PROPERTY IRONS. THE CONTRACTOR WILL BE REQUIRED TO REESTABLISH ANY PROPERTY IRONS WHICH ARE DAMAGED OR DESTROYED BY HIS CONSTRUCTION OPERATIONS. SUCH IRONS SHALL BE REESTABLISHED BY A LICENSED LAND SURVEYOR IN ACCORDANCE WITH STATE LAWS.
3. 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 PLAN LOCATIONS SHOWN ARE NOT GUARANTEED. ADDITIONAL EXISTING UTILITIES MAY ALSO BE ENCOUNTERED.
4. CONTRACTOR WILL BE REQUIRED TO PROVIDE A MINIMUM ADVANCE NOTICE OF FORTY-EIGHT (48) HOURS TO UTILITY COMPANIES PRIOR TO STARTING ANY EXCAVATION AS FOLLOWS:

KANSAS ONE-CALL	1-800-344-7233 OR 687-2470 (LOCAL WICHITA)

THE CONTRACTOR MUST NOTIFY THE FOLLOWING IN CASE OF AN EMERGENCY:

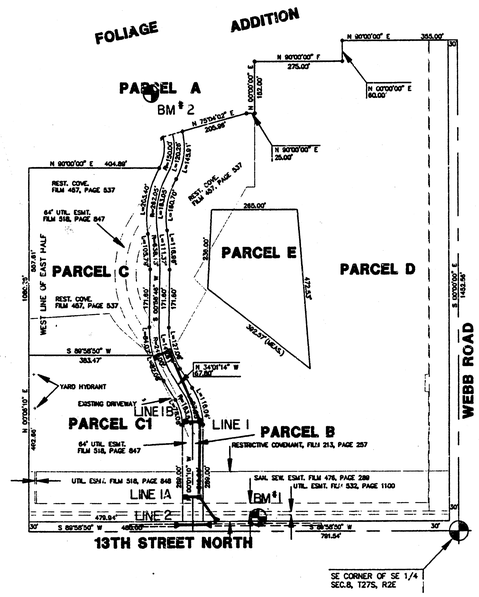
SOUTHWESTERN BELL TELEPHONE COMPANY	1-571-2115
CABLEVISION	262-4270 OR 263-2061
KPL GAS SERVICE COMPANY	263-7511
KANSAS GAS & ELECTRIC	264-1141
CITY OF WICHITA WATER DEPARTMENT	268-4908
CITY OF WICHITA SEWER MAINTENANCE	268-4908
ARKLA GAS COMPANY	942-8350 OR 263-8161

5. RUBBLE FROM THE REMOVAL OF MISCELLANEOUS STRUCTURES AND EXCESS EXCAVATION WHICH IS TO BE WASTED SHALL BE DISPOSED OF ON SITES TO BE PROVIDED BY THE CONTRACTOR. THESE SITES SHALL BE APPROVED BY THE ENGINEER AS TO SUITABILITY, APPEARANCE AND SITE LOCATION. LOCATIONS THAT, IN THE OPINION OF THE ENGINEER, WILL LEAVE AN UNSIGHTLY APPEARANCE WILL NOT BE APPROVED.
6. THE TOPS OF INLETS AND MANHOLES 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.
7. TREES WITHIN THE PROJECT LIMITS ARE TO BE MOVED BY THE OWNER. THE CONTRACTOR SHALL COORDINATE THE REMOVAL OF EXISTING TREES WITH THE OWNER. ANY TREES NOT REMOVED BY THE OWNER SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.
8. CONTRACTOR SHALL REMOVE ALL ITEMS WITHIN CONSTRUCTION LIMITS AND DISPOSE OF ACCORDING TO SPECIFICATIONS. COST SHALL BE PAID AS SITE PREPARATION.
9. CONTRACTOR SHALL SEED AND MULCH ALL DISTURBED GROUND WITHIN PUBLIC RIGHT OF WAY. COST SHALL BE PAID AS SITE RESTORATION.

BENCH MARKS

BM #1 SPIKE IN WEST SIDE POWER POLE, 180' +/- EAST OF PRIVATE ENTRANCE ON 13TH STREET NORTH.
ELEV. = 189.00

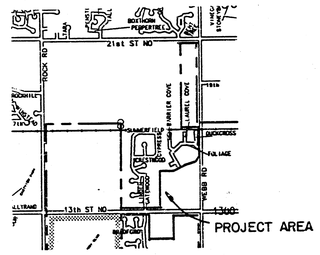
BM #2 "□" CUT ON SOUTH END OF SOUTHWEST RETURN OF FOLIAGE DRIVE AND FOLIAGE COVE.
ELEV. = 192.41



SCALE: 1" = 200'

INDEX TO DRAWINGS

SHEET NO.	DESCRIPTION
1	TITLE SHEET
2	PLAN/ PROFILE - LINE 1
3	PLAN/ PROFILE - LINE 1A , 1B
4	PLAN/ PROFILE - LINE 2
5-6	CURB INLET DETAILS



LOCATION MAP

Booked 12/91 MCG

AS BUILT 10-2-91

FOLIAGE 2ND ADDITION
PRIVATE
STORM SEWER PLANS

Design: GJA
Drawn by: DPR
Checked by: DDS
Date: AUG. 1991
Job no.

MID-KANSAS ENGINEERING CONSULTANTS PA
3500 NORTH ROCK ROAD
BUILDING #800
WICHITA, KANSAS 67226
636-5566

Sheet 1 of 6

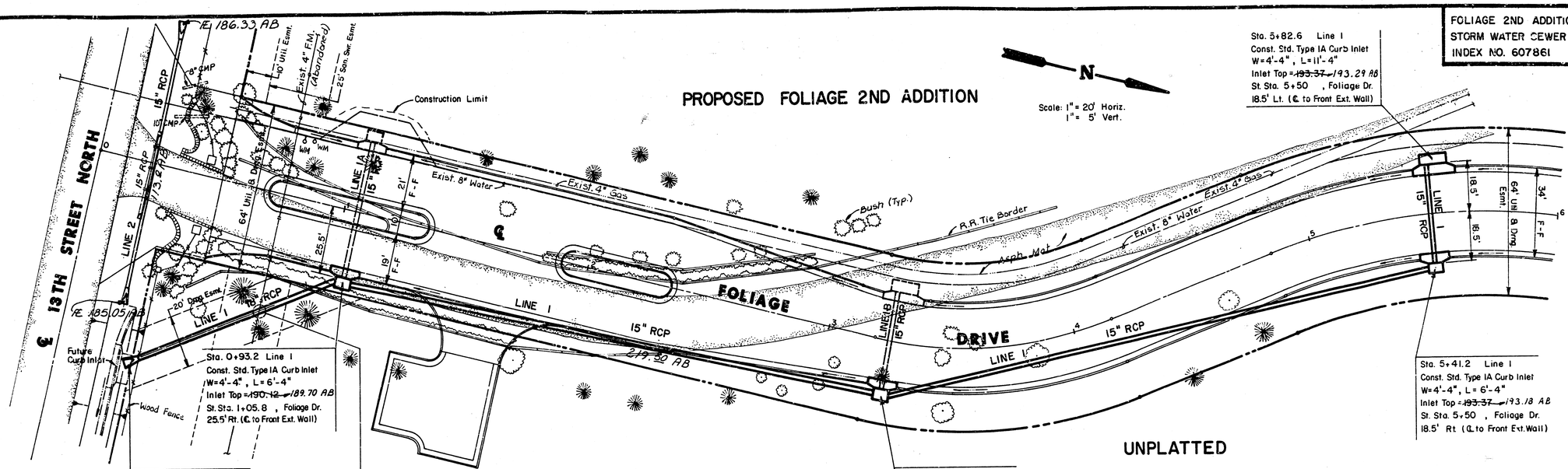
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FOLIAGE 2ND ADDITION
STORM WATER SEWER
INDEX NO. 607861

PROPOSED FOLIAGE 2ND ADDITION

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



Sta. 0+93.2 Line 1
Const. Std. Type IA Curb Inlet
W=4'-4", L=6'-4"
Inlet Top = ~~190.12~~ 189.70 AB
St. Sta. 1+05.8, Foliage Dr.
25.5' Rt. (℄ to Front Ext. Wall)

Sta. 0+00 Line 1
Begin 18" RCP with
End Section
St. Sta. 0+27.4, Foliage Dr.
77.0' Rt.

Abandoned 4" Force Main to be removed and plugged where in conflict with 18" RCP

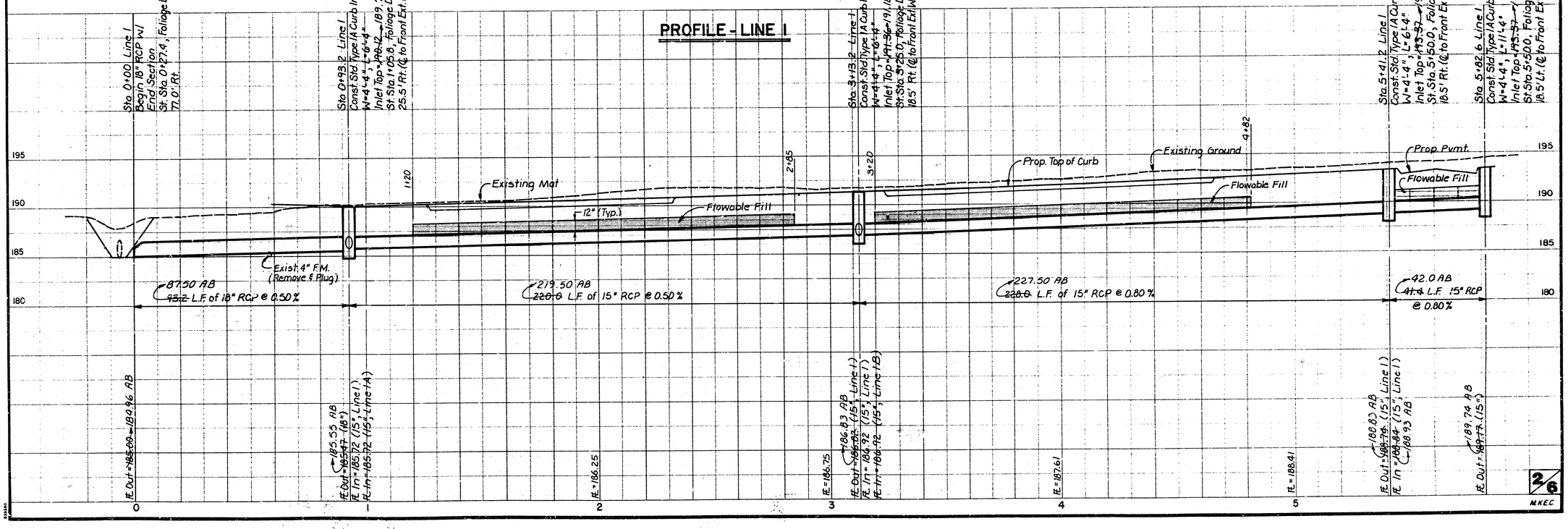
Sta. 3+13.2 Line 1
Const. Std. Type IA Curb Inlet
W=4'-4", L=6'-4"
Inlet Top = ~~191.36~~ 191.18 AB
St. Sta. 3+25.0,
18.5' Rt. (℄ to Front Ext. Wall)

Sta. 5+82.6 Line 1
Const. Std. Type IA Curb Inlet
W=4'-4", L=11'-4"
Inlet Top = ~~193.37~~ 193.29 AB
St. Sta. 5+50, Foliage Dr.
18.5' Lt. (℄ to Front Ext. Wall)

Sta. 5+41.2 Line 1
Const. Std. Type IA Curb Inlet
W=4'-4", L=6'-4"
Inlet Top = ~~193.37~~ 193.18 AB
St. Sta. 5+50, Foliage Dr.
18.5' Rt. (℄ to Front Ext. Wall)

PLAN - LINE 1

PROFILE - LINE 1

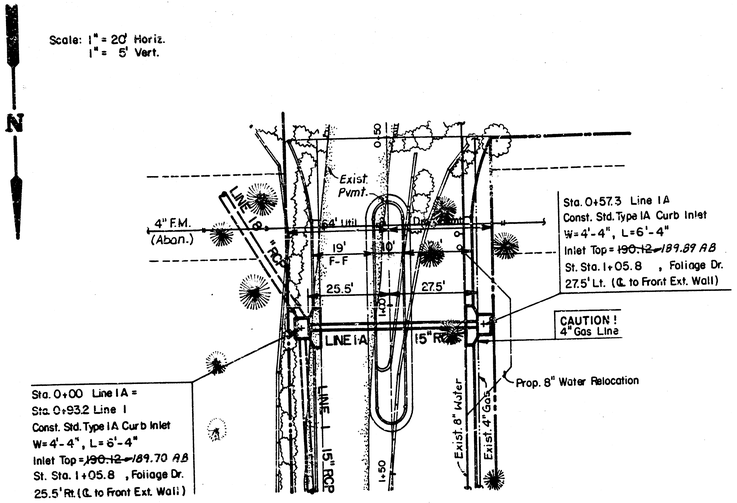


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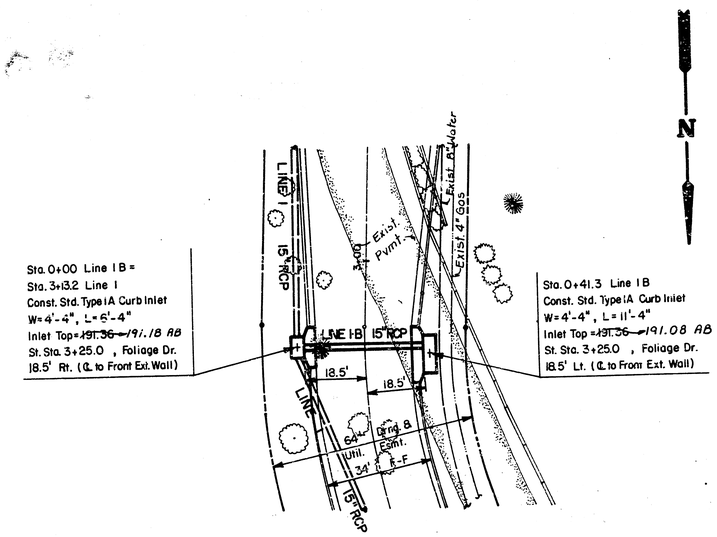
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FOLIAGE 2ND ADDITION
STORM WATER SEWER PLAN
INDEX NO. 60786

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

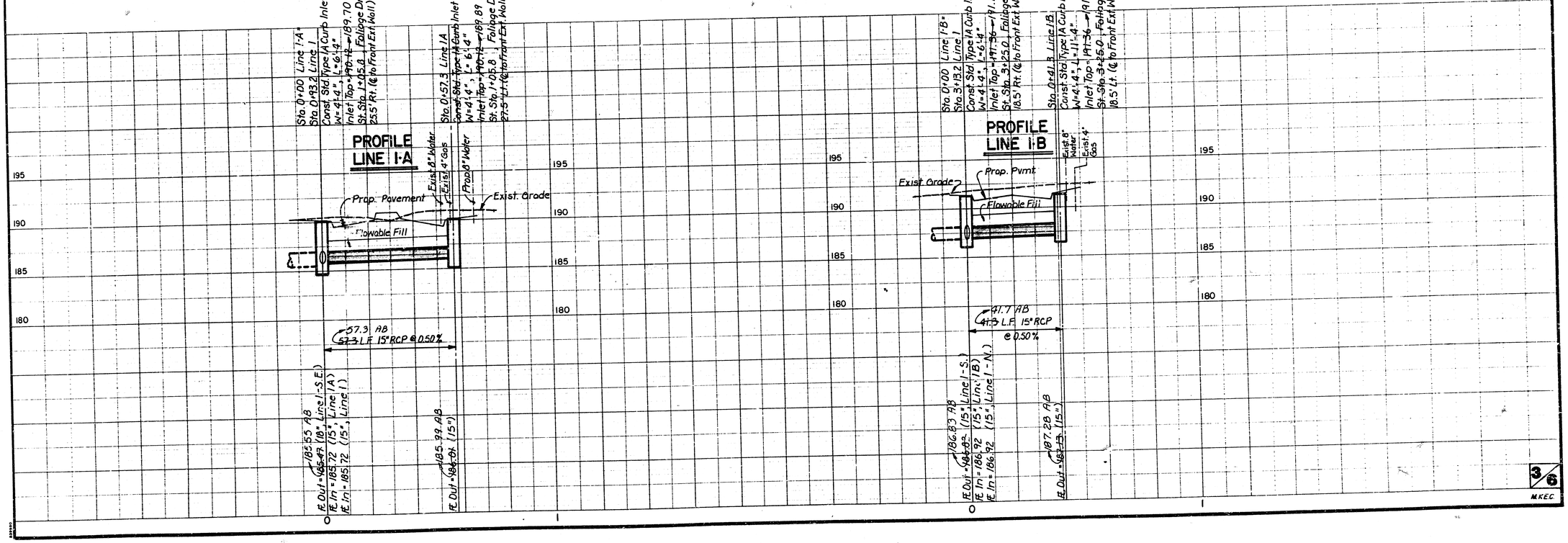


PLAN - LINE 1-A



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

PLAN - LINE 1-B



3/6
MKEC

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FOLIAGE 2ND ADDITION
STORM WATER SEWER
PRIVATE PROJECT NO.

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

N

℄ 13TH STREET NORTH

Tensar Erosion Mat

Exist. 8" Water Line

Tensar Erosion Mat

3+05 3+50 4+50 6+00

LINE 2 15" RCP

℄ St. Sta. 0+22 (Foliage Dr.)

Exist. 30' R/W

Exist. 30' R/W

LINE 1 18" RCP

Prop. Asphalt Hook-Up

Prop. 50' R/W

Sta. 0+00 Line 2
Begin 6' Ditch
Match Exist Ditch Flow

Sta. 3+45 Line 2
Begin 15" RCP w/End Section
St. Sta. 0+22, Foliage Drive
55' Rt.

Sta. 4+55 Line 2
End 15" RCP w/End Section
St. Sta. 0+22, Foliage Drive
55' Lt.

Sta. 6+00 Line 2
End 6' Ditch
Match Exist. Ditch Flow

UNPLATTED

℄ FOLIAGE DR.

PROP. FOLIAGE 2ND ADDITION

NOTE: Tensar Erosion Mat TB-1200 or approved equal. To be installed by Manufacturer's specification

3 3

6'-0"

TYPICAL DITCH CROSS-SECTION

PLAN - LINE 2

PROFILE - LINE 2

Sta. 0+00 Line 2
Begin Ditch

Sta. 3+45 Line 2
Begin 15" RCP w/
End Section
St. Sta. 0+22, Foliage Dr.
55' Rt.

Sta. 4+55 Line 2
End 15" RCP w/
End Section
St. Sta. 0+22, Foliage Dr.
55' Lt.

Sta. 6+00 Line 2
End Ditch

℄ Foliage Dr.

Exist. 8" Water Line

Exist. Pavement

Prop. Hook-up

Exist. Ditch ft.

Tensar Erosion Mat

Tensar Erosion Mat

3+05

3+50

4+50

~~110.0~~ ~~113.0~~ 113.0 L.F. of 15" RCP @ 1.28%
w/ End Sections

Ditch Slope : 0.30 %

Ditch Slope : 2.40 %

190
185
180

FE = 183.97 (Match Exist. ft.)

FE = 184.27

FE = 184.57

FE = 184.87

FE = ~~185.00~~ 185.05 A.B. (15" RCP)

FE = ~~187.00~~ 188.33 A.B. (15" RCP)

FE = 188.08

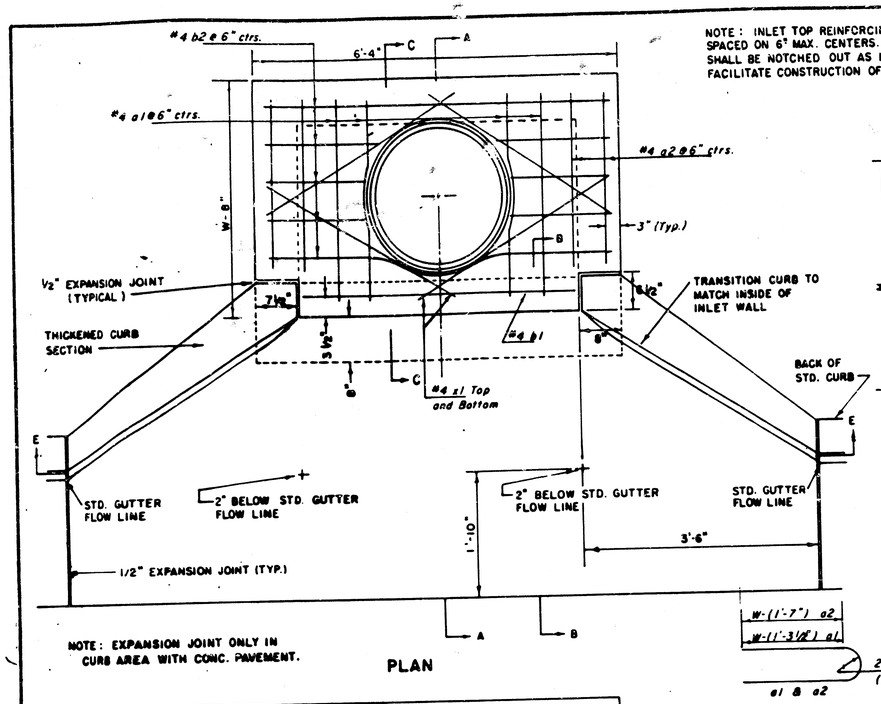
FE = 198.48 (Match Exist ft.)

0 1 2 3 4 5 6

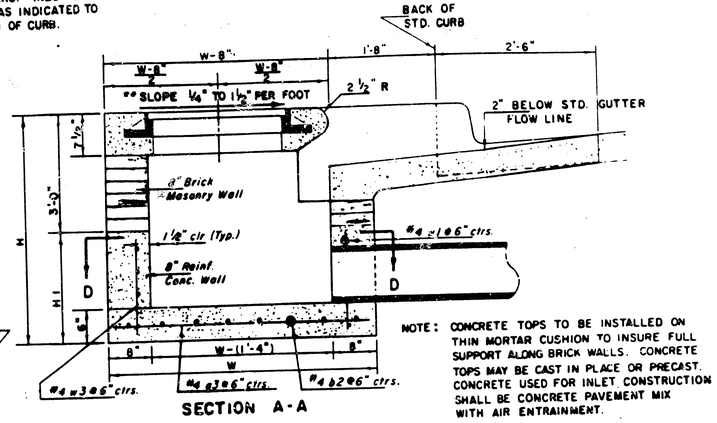
4/6

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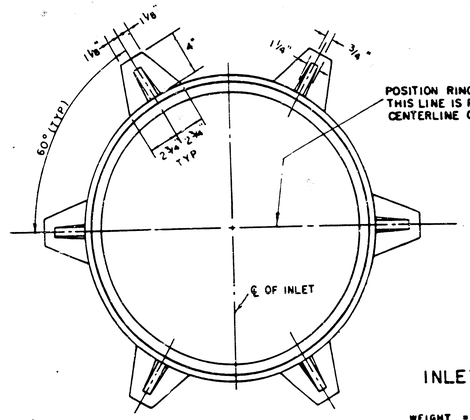


NOTE: INLET TOP REINFORCING SHALL BE SPACED ON 6" MAX. CENTERS. INLET LIDS SHALL BE NOTCHED OUT AS INDICATED TO FACILITATE CONSTRUCTION OF CURB.



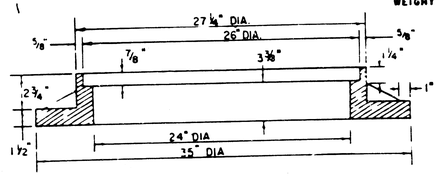
SECTION A-A

NOTE: 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 WITH AIR ENTRAINMENT.



INLET FRAME

WEIGHT = 180 LBS.



SEE CITY OF WICHITA STANDARD MANHOLE FRAME AND COVER DETAIL SHEET FOR COVER DETAILS TO BE USED WITH INLET FRAME.

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

ADDITIONAL CURB AND GUTTER CONSTRUCTION NECESSARY TO CONNECT SET-BACK INLET TO PAVEMENT WILL BE PAID FOR AT THE UNIT PRICE BID FOR EACH INLET HOOKUP.

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

BENDING DIAGRAM

PRECAST SLAB AND FLOOR REINFORCING											
		W=4'-4"		W=5'-4"		W=6'-4"		W=7'-4"		W=8'-4"	
Mark	Size	No.	Length	No.	Length	No.	Length	No.	Length	No.	Length
a1	#4	6	6'-7"	6	8'-7"	6	10'-7"	6	12'-7"	6	14'-7"
a2	#4	4	6'-0"	4	8'-0"	4	10'-0"	4	12'-0"	4	14'-0"
a3	#4	13	4'-1"	13	5'-1"	13	6'-1"	13	7'-1"	13	8'-1"
b1	#4	1	4'-9"	1	6'-9"	1	8'-9"	1	10'-9"	1	12'-9"
b2	#4	29	6'-1"	29	8'-1"	35	8'-1"	41	8'-1"	47	8'-1"
x1	#4	0	3'-10"	0	4'-8"	0	4'-6"	0	4'-10"	0	5'-2"

WALL REINFORCING											
		W=4'-4"		W=5'-4"		W=6'-4"		W=7'-4"		W=8'-4"	
Mark	Size	No.	Length	No.	Length	No.	Length	No.	Length	No.	Length
w1	#4	Ⓐ	6'-1"	Ⓐ	6'-1"	Ⓐ	6'-1"	Ⓐ	6'-1"	Ⓐ	6'-1"
w2	#4	Ⓐ	4'-1"	Ⓐ	5'-1"	Ⓐ	6'-1"	Ⓐ	7'-1"	Ⓐ	8'-1"
w3	#4	32	Ⓑ	36	Ⓑ	40	Ⓑ	44	Ⓑ	48	Ⓑ

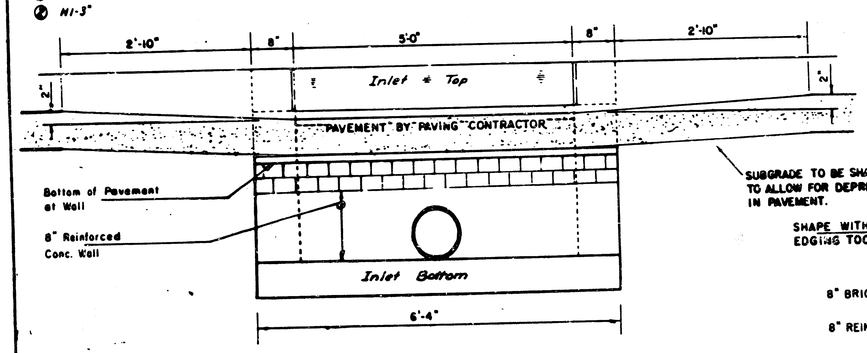
* Field bend or cut Reinforcing as required for clearance.

Ⓐ 4(H1-12") ÷ (H1-12") Round down to nearest 0.5'

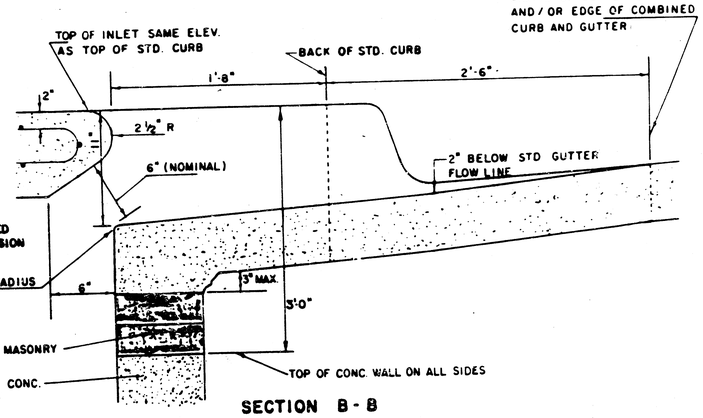
Ⓑ H1-3"

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

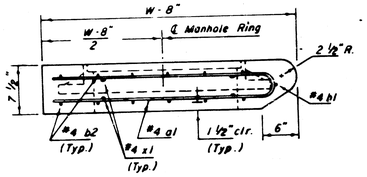
** NOTE: Slope of Inlet Tops to match Sidewalk or Parking Slopes within Limits indicated.



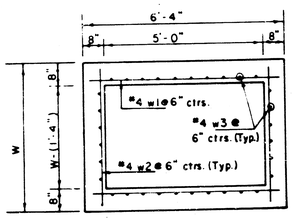
SECTION E-E



SECTION B-B



SECTION C-C



SECTION D-D

~~REVISED 11-30-1988~~

~~REVISED 12-21-1988~~ Revised 2-16-1989

DETAIL STANDARD TYPE IA CURB INLET

CITY OF WICHITA, KANSAS

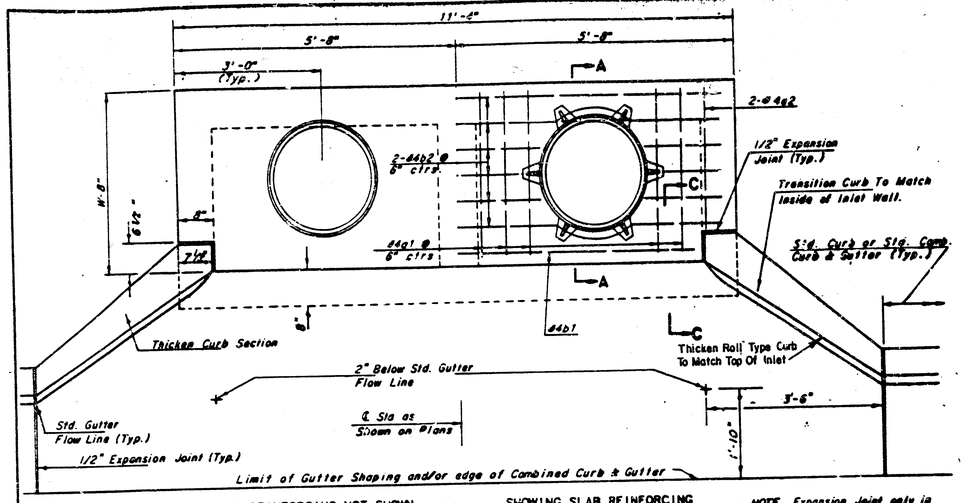
INLET OPENING = 6" x 5' 0"

JUNE 1984

5/6

ORIGINAL

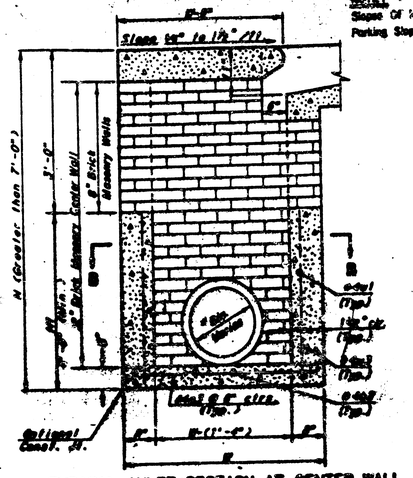
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SLAB REINFORCING NOT SHOWN — SHOWING SLAB REINFORCING

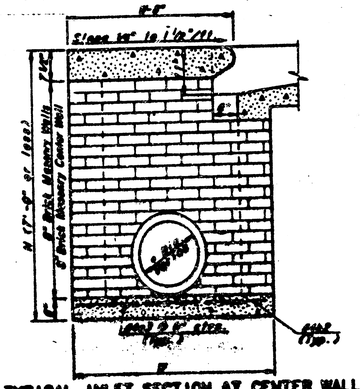
PLAN

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



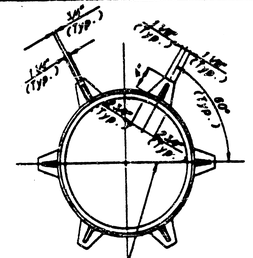
TYPICAL INLET SECTION AT CENTER WALL
(REINFORCED CONCRETE WALLS)

NOTE
Slope Of Inlet Tops To Match Sidewalk Or Parking Slopes Within Limits Indicated.

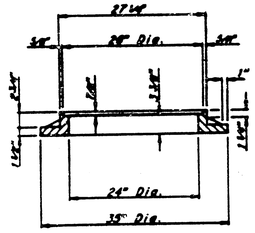


TYPICAL INLET SECTION AT CENTER WALL
(MASONRY WALLS)

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

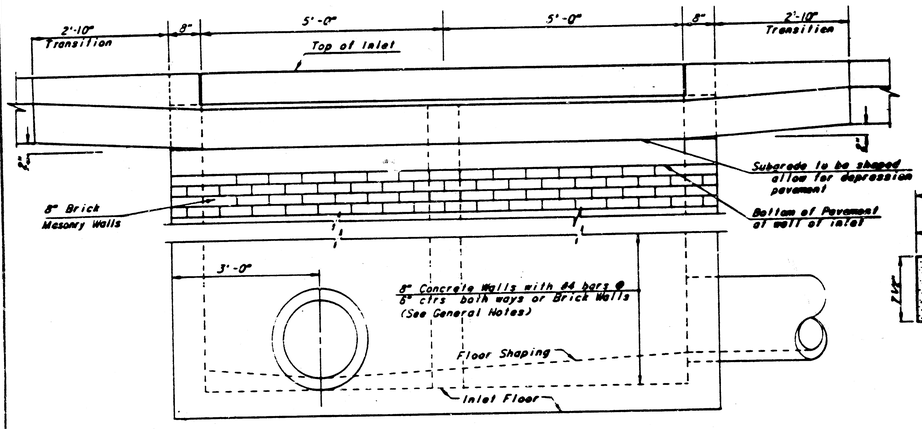


Position Ring such that this line is parallel with ℄ of Pavement

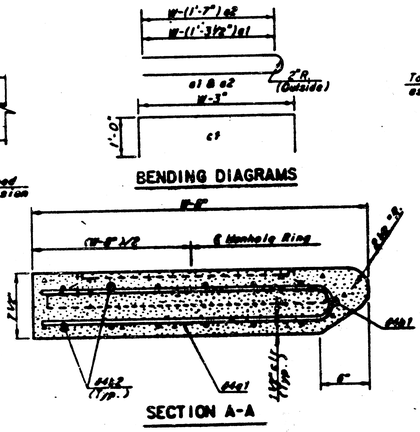


CAST IRON INLET RING
Wt. ≈180 lbs.

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

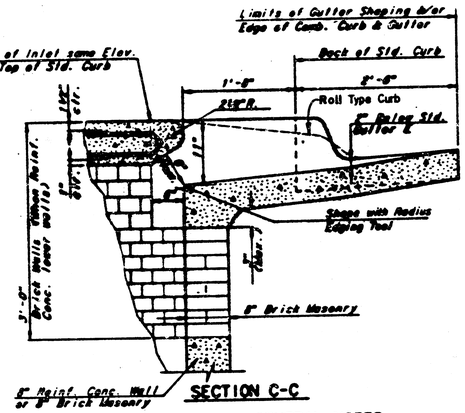


ELEVATION

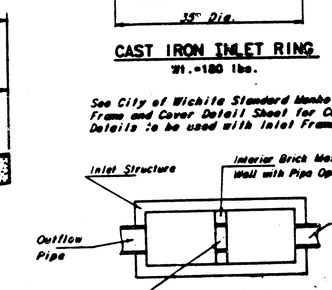


BENDING DIAGRAMS

SECTION A-A

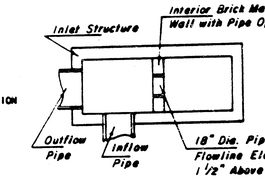


SECTION C-C



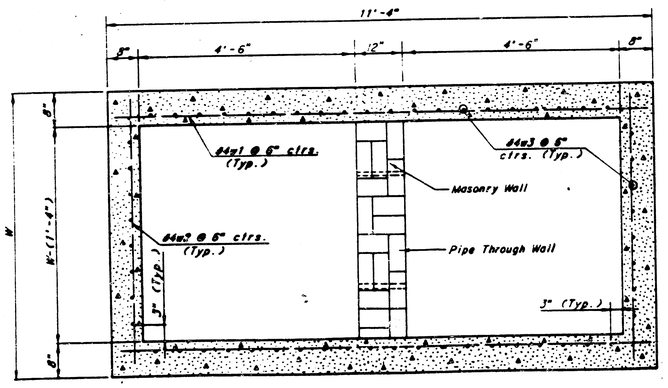
Pipe Size to be the same as Outlet Pipe Size. Flowline Elev. to be Average of Lowest Inflow Pipe Elev. and Outflow Pipe Elev.

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.



SECTION B-B

SLAB AND FLOOR REINFORCING

MARK	SIZE	W=4'-4" NO.	W=4'-4" LENGTH	W=5'-4" NO.	W=5'-4" LENGTH	W=6'-4" NO.	W=6'-4" LENGTH	W=7'-4" NO.	W=7'-4" LENGTH	W=8'-4" NO.	W=8'-4" LENGTH
o1	#4	13	8'-7½"	13	8'-7½"	13	10'-7½"	13	12'-7½"	13	14'-7½"
o2	#4	2	8'-0"	2	8'-0"	2	10'-0"	2	12'-0"	2	14'-0"
o3	#4	20	6'-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"
ob2	#4	18	11'-1"	24	11'-1"	30	11'-1"	36	11'-1"	42	11'-1"

WALL REINFORCING

MARK	SIZE	W=4'-4" NO.	W=4'-4" LENGTH	W=5'-4" NO.	W=5'-4" LENGTH	W=6'-4" NO.	W=6'-4" LENGTH	W=7'-4" NO.	W=7'-4" LENGTH	W=8'-4" NO.	W=8'-4" LENGTH
c1	#6	4	6'-1"	4	7'-1"	4	8'-1"	4	9'-1"	4	10'-1"
w1	#4	①	11'-1"	①	11'-1"	①	11'-1"	①	11'-1"	①	11'-1"
w2	#4	①	4'-1"	①	5'-1"	②	6'-1"	①	7'-1"	②	8'-1"
w3	#4	②	③	②	③	②	③	②	③	②	③

* Field bend or cut Reinforcing as required for clearance
① 4(N1'-6")+4 (N1'-6") Rounded down to nearest 0.5'
② 40+4(W - 16") ③ N1'-(8")

GENERAL NOTES

1. 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 W=7'-0" OR LESS WHEN W IS GREATER THAN 6'-4" AND N 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.
2. INLET INVERT SHALL BE SHAPED WITH A 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.
3. 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.
4. 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.
5. 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	SIDE OR INTERIOR WALL PIPE SIZE	CU. YD. CONC.
4'-4"	5'-8"x 11'-4"x 7 1/2"	21" & SMALLER	0.85 ±
5'-4"	6'-8"x 11'-4"x 7 1/2"	24" & 30"	1.09 ±
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 12-5-68 — REV1068-12-21-84-

STANDARD TYPE 1A CURB INLET

INLET OPENING ○ 6' x10'-0"

WICHITA, KANSAS

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Designed by	BER, KJS, MMB	Checked by	MMB
Drawn by	JCP	Date Nov., 1974	Job No.

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