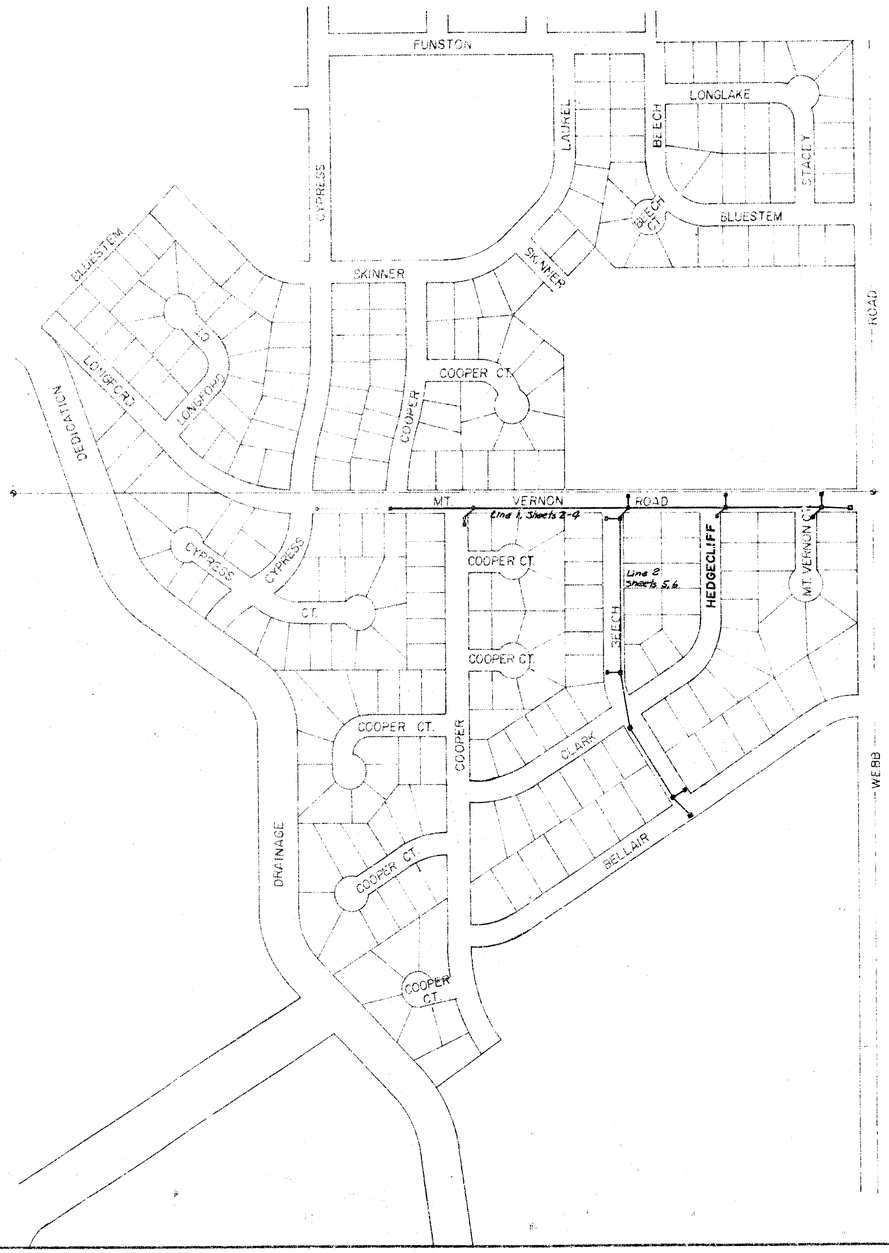
STORM WATER SEWER NO. 205 - PHASE II

GENERAL NOTES

1. CONTRACTOR SHALL CONTACT MR. AUBREY SUMMERS OF NORTH WEST CENTRAL PIPELINE COMPANY AT 524-0491 BEFORE ANY DIGGING IS TO TAKE PLACE IN THE VICINITY OF THE HIGH PRESSURE PIPELINES.

2. CONTRACTOR SHALL AVOID REMOVING ANY TREES UNLESS IT IS ABSOLUTELY NECESSARY. CONTRACTOR IS TO TAKE WHATEVER PRECAUTIONS THE ENGINEER DEEMS NECESSARY (FENCING, SHEETING, ETC.) TO ENSURE THAT THE TREES ARE PROTECTED FROM INJURY (COST SUBSIDIARY TO PROJECT).

3. ALL TYPE 1A CURB INLETS IN THIS PROJECT SHALL BE CONSTRUCTED WITHOUT THE CURB OPENINGS. THE TOPS OF THE INLET SHALL BE SET ON TOP OF A VISQUEEN PLASTIC SHEET TO PREVENT ANY DIRT TO BE WASHED INTO THE INLET (SEE SHEET 7 FOR DETAIL). THE TOP OF THE INLETS SHALL BE AT LEAST TWO FEET BELOW EXISTING GROUND LEVEL. THE TOP OF INLET ELEVATIONS SHOWN ON PLANS ARE FOR REFERENCE ONLY.



N

Scale: 1" = 200'

Sheet	Index
1	Cover Sheet
2-6	Plan & Profile
7	Type 1A Inlet
8	Ditch Inlet
9	Hedgecliff 3rd Add. Plat

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 OR A LICENSED PROFESSIONAL ENGINEER IN ACCORDANCE WITH STATE LAWS.

R.W. BRUGGEMAN, DIRECTOR OF ENGINEERING/
CITY ENGINEER

CITY OF WICHITA, KANSAS

PROJECT NO. 168 76 245 81013 000 000 001

DATE: _____

8200

1/9

Scale
Plan 1" = 20'
Profile 1" = 20' Horz.
1" = 5' Vert.

N

CYPRESS

SECOND ADDITION TO HEDGECLIFF 3RD ADDITION

Lot 8, Blk. 2

Lot 9, Blk. 2

Lot 4, Blk. 5

Lot 3

Lot 2

Lot 1

Lot 16, Blk. 5

COOPER

CEDAR RIDGE

Lot 17, Blk. 3

Lot 18

Lot 19

@ Sta. 13+37.5, Constr. Type 1A Curb Inlet W = 7.0' Typ = 190.6

Line 7, See Sheet 4 (Phase I)

MT. VERNON

See Sheet 3 (Phase I)

Exist 54" SNS (Phase I)

Sta. 8+41.5 = @ Sta. 8+51.2
Use @ Sta. From Here on

@ Sta. 10+76.65, Connect Pipe to 48" Stub @ Exist'g Type 1A Curb Inlet

Constr. Type 1A Curb Inlet, W = 3.0', Typ = 171.2
Install 42 LF of 18" Pipe
U/S FL = 165.15 D/S FL = 164.85

Constr. Type 1A Curb Inlet, W = 3.0', Typ = 171.2
Install 4 LF of 15" Pipe
U/S FL = 165.45 D/S FL = 166.35

Lot 1, Blk. 3

12' EP to EP Proposed Pavement

20' R/W

B.M. 169.52 RR Spk. SW face HLP N-Side Mt. Vernon 30' E of E.L. Cypress

B.M. 182.48 City Std. B.M. Disc Mt. Vernon & Webb Rd. 42' W & 44' N of ¼ Sec. Corner

Exist'g 12" CMP Culvert

@ Sta. 10+76.65, Connect Pipe to 48" Stub @ Exist'g Conc. Inlet

Alt. 26' LF of 48" RCP @ 4.5%

Alt. 26' LF of 48" CMP @ 4.5% (Using paved invert culvert)

PLAN
SURVEYED
PLOTTED
CHECKED
NOTE BOOK
No.

PROFILE
SURVEYED
PLOTTED
CHECKED
NOTE BOOK
No.

PLATE 3 - PLAN - PROFILE - F.A.S.
CLEARPRINT FAMES CO., S. F. CAL.
SP. 5586-1

E/9

SECOND ADDITION TO CEDAR RIDGE

Lot 19, Blk. 3 | Lot 20 | Lot 21 | Lot 22, Blk. 3 | Unplatted

Scale: Plan 1" = 20'
Profile 1" = 20' Horz.
1" = 5' Vert.

℄ Sta. 18+16.5 Lt, Constr. Type 1A Curb Inlet W = 6'2", Top = 172.80 Install 41 LF of 15" Pipe US FL = 169.5, DS FL = 169.3

N

W 12"

MT. VERNON

37' b/c Proposed Pavement

66' R/W

PLAT PATH

13 | 14 | 15 | 16 | 17 | 18 | 19

18.8'

See Sheet 2

℄ Sta. 18+16.5, Constr. Type 1A Curb Inlet W = 6'0", Top = 172.80 L = 6'2½"

85' Proposed Pavement b/c-b/c

BEECH

64' R/W

See Sheet 3

COOPER

Lot 1, Blk. 3 | Lot 2 | Lot 3 | Lot 28, Blk. 3 | Lot 1, Blk. 2

HEDGECLIFF 3RD ADDITION

℄ Sta. 18+22.5 Type 1A Curb Inlet, See Sheet 2

℄ Sta. 18+16.5 Constr. Type 1A Curb Inlet, W = 6', Top = 172.80

479 LF of 42" RCP @ 1.10%
Alt: 479 LF of 42" CMP @ 1.10% (fully paved & fully coated)

See Next Sheet

Eout = 161.68
Ein(2) = 162.18

Eout = 167.66
Ein(2) = 167.59

175 | 170 | 165 | 160

13 | 14 | 15 | 16 | 17 | 18 | 19

162.86 | 163.26 | 165.06 | 166.16 | 167.26 | 168.00

3/9

Scale Plan 1" = 20'.
Profile 1" = 20' Horz.
1" = 5' Vert.

N

@ Sta. 21+02.5, Lt, Constr. Type 1A Curb Inlet W=4'2", Top = 175.0 Install 41 LF of 15" Pipe USFL = 171.70, DSFL = 171.46

@ Sta. 24+24.5, Lt, Constr. Type 1A Curb Inlet W=4'2", Top = 180.7 Install 41 LF of 15" Pipe USFL = 177.43, DSFL = 177.22

MT. VERNON

32' bk.-bk. Proposed Pavement

26' R/W

18.8'

@ Sta. 21+02.5, Constr. Type 1A Curb Inlet, W=6'0", Top = 175.0

Constr. Type 1A Curb Inlet, W=4'2", Top = 174.8 Install 41 LF of 15" Pipe USFL = 171.70, DSFL = 171.46

@ Sta. 24+24.5, Constr. Type 1A Curb Inlet W=6'0", Top = 180.7

Constr. Type 1A Curb Inlet, W=4'2", Top = 180.0 Install 41 LF of 15" Pipe USFL = 177.43, DSFL = 177.23

@ Sta. 25+08, Constr. Ditch Inlet w/ Beehive Top L=6'0", W=6'0", Top = 181.0

Grade to drain*

ROAD

WEBB

33' bk.-bk. Proposed Pavement

64' R/W

MT. VERNON CT.

35' bk.-bk. Proposed Pavement

64' R/W

HEDGECLIFF

Lot 12, Blk. 2

Lot 9, Blk 1

HEDGECLIFF 3RD ADDITION

Lot 8, Blk. 1

Lot 1, Blk. 1

*Note: Grade to drain cost subsidiary to Project

@ Sta. 21+20.5, Constr. Type 1A Curb Inlet, W=6'0", Top = 175.0

@ Sta. 24+20.5, Constr. Type 1A Curb Inlet, W=6'0", Top = 180.7

@ Sta. 25+08 Constr. Ditch Inlet, W=6'0", L=6'0", Top = 181.0

304 LF of 42" RCP @ 0.55%
Alt. 304 LF of 42" CMP @ 0.55% (fully paved & fully coated)

304 LF of 36" RCP @ 0.83%
Alt. 304 LF of 36" CMP @ 0.83% (fully paved & fully coated)

84 LF of 36" RCP @ 0.80%
Alt. 84 LF of 36" CMP @ 0.80% (F.P & F.C)

185
180
175
170
165

Rout = 168.21
Rin = 169.46

Rout = 172.83
Rin = 172.33

Rout = 173.98

-168.65 (20)
-169.10 (21)
-170.37 (22)
-171.20 (23)
-172.03 (24)
-172.96 (25)

4/9

Lot 1, Blk. 2 | Lot 2 | Lot 3 | Lot 4 | Lot 5 | Lot 7 | Lot 6, Blk. 2

CLARK

Scale Plan 1" = 20'
Profile 1" = 20' Horz.
1" = 5' Vert.

Sta. 0+41.8, Constr. Type 1A Curb Inlet W=5'0", L=6'8½", Top=172.1

Sta. 4+97.55, Constr. Type 1A, Curb Inlet W=5'0", Top=180.40

See Sheet 3

18.8'

1 2 3 4

BEECH

35' Prop. Width

66' R/W

18.8'

Constr. Type 1A Curb Inlet, W=4'2", Top=173.10
Install 39 LF of 15" Pipe
USFL=169.80, DSFL=169.60

Constr. Type 1A Curb Inlet, W=4'2", Top=180.40
Install 39 LF of 15" Pipe
USFL=176.16, DSFL=176.77

MT. VERNON

Lot 21, Blk. 3

Lot 28, Blk. 3 | Lot 27 | Lot 26 | Lot 25 | Lot 24 | Lot 23 | Lot 22

HEDGECLIFF 3RD ADDITION

Sta. 0+12 = 5'0" Width Line 1
Type 1A Curb Inlet, See Sheet 3

Sta. 0+41.8, Constr. Type 1A Curb Inlet, W=5'0", Top=173.10

Sta. 4+97.55, Constr. Type 1A Curb Inlet, W=5'0", Top=180.40

42 LF of 30" RCP @ .76%
Alt. 42 LF of 30" CMP @ .76% (F.P.B.F.C.)

456 LF of 30" RCP @ .67%
Alt. 456 LF of 30" CMP @ .67% (fully paved & fully coated)

180
175
170
165

Elevations:
180
175

Event #2.01
Rain=1.468"
Runoff=1.468"

Event #100.0
Rain=4.685"
Runoff=4.330"

Event #2.01
Rain=1.468"

Event #100.0
Rain=4.685"
Runoff=4.330"

172.10

0 → 169.34
1 → 170.01
0 → 174.68
3 → 177.35
4 → 179.20
5

5/9

HEDGECLIFF 3RD ADDITION

Scale Plan 1" = 20'
Profile 1" = 20' Horz.
1" = 5' Vert.

Lot 6, Blk. 2

Lot 17, Blk. 1

Lot 18, Blk. 1

Lot 22

Lot 21, Blk. 3

Lot 7, Blk. 4

Lot 8, Blk. 4

See Sheet 5

CLARK

BELLAIRE

BEECH

12' Utility Easement

66' Pipeline Easement

35' Lt. Lt. Proposed Pavement

66' R/W

Sta. 9+46.82, Constr. Type 1A Curb Inlet W=5'0", Top = 184.0

Sta. 10+68.70, Constr. Type 1A Curb Inlet W=4'2", Top = 184.33

Sta. 6+42.5, Constr. Type 1A Curb Inlet W=5'0", Top = 181.50

Sta. 9+04.82, Constr. Type 1A Curb Inlet W=5'0", Top = 184.0

Sta. 6+42.55 Type 1A Curb Inlet, See Sheet 5

Sta. 6+42.5, Constr. Type 1A Curb Inlet, W=5'0", Top = 181.5

Sta. 9+04.82 Constr. Type 1A Curb Inlet, W=5'0", Top = 184.0

Sta. 9+46.82 Constr. Type 1A Curb Inlet, W=5'0", Top = 184.0

Sta. 10+68.70 Constr. Type 1A Curb Inlet, W=4'2", Top = 184.33

145 LF of 30" RCP @ .57%
Alt. 145 LF of 30" CMP @ .57% (fully coated & fully paved)

262 LF of 24" RCP @ 1.90%
Alt. 262 LF of 24" CMP @ 1.90% (fully coated & Fully paved)

42 LF of 24" RCP @ 1.3%
Alt. 42 LF of 24" CMP @ 1.3% (F.P. & F.C.)

62 LF of 24" RCP @ 1.28%
Alt. 62 LF of 24" CMP @ 1.28% (F.P. & F.C.)

Caution - Existing 18" High Pressure Pipeline

Invt = 177.10
Elev = 182.10

Invt = 178.63
Elev = 183.63

Invt = 178.81
Elev = 184.0

Invt = 179.46
Elev = 184.0

Invt = 180.14
Elev = 184.33

172.68

174.52

176.42

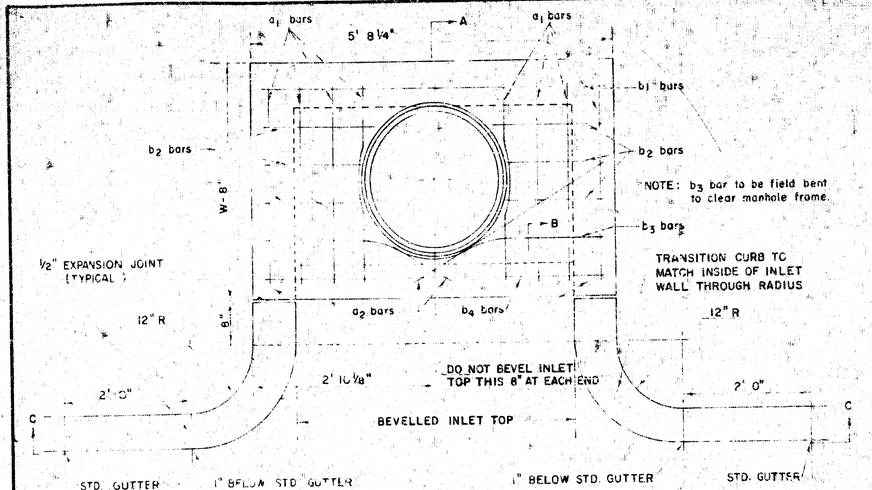
185
180
175
170

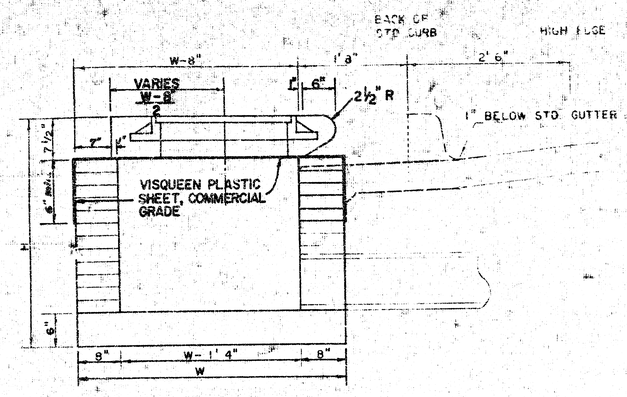
190
185
180

5 6 7 8 9 10

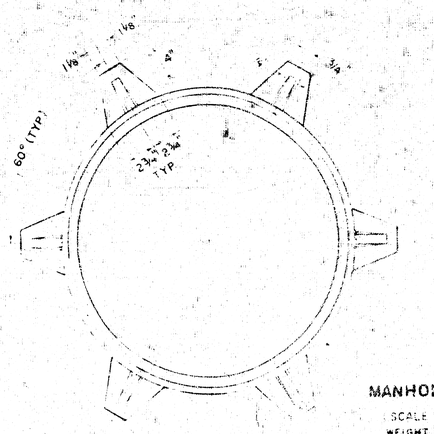
6/9

6/9

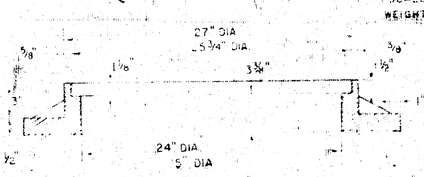


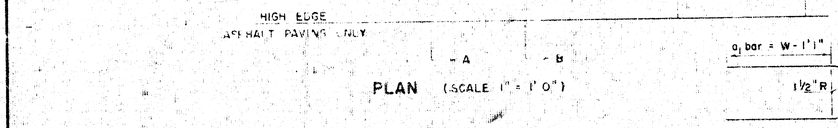


SECTION A-A
(SCALE 1" = 1'0")



MANHOLE FRAME
SCALE 1" = 6"
WEIGHT = 180 LBS.





PLAN (SCALE 1" = 1'0")

BENDING DIAGRAM

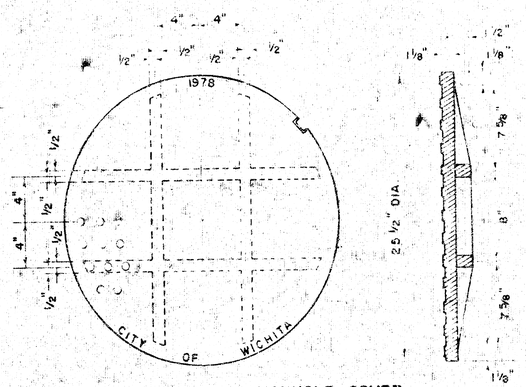
STEEL SCHEDULE

BAR		a_1	a_2*	b_1 W=4'2"	b_1 W=5'0"	b_1 W=6'0"	b_1 W=7'0"	b_1 W=8'0"	b_2	b_3	b_4	WT. LBS.
NUMBER		8	2	1	2	5	7	9	6	1	1	
SIZE		"	"	#4	#4	#4	#4	#4	#4	#4	#6	
LENGTH	W=4'2"	6'5"	3'4"	5'5"	–	–	–	–	1'5"	5'6"	5'5"	60#
	W=5'0"	8' 1"	3'4"	–	5'5"	–	–	–	1'5"	5'6"	5'5"	77#
	W=6'0"	10' 1"	5'4"	–	–	5'5"	–	–	1'5"	5'6"	5'5"	97#
	W=7'0"	12' 1"	6'4"	–	–	–	5'5"	–	1'5"	5'6"	5'5"	111#
	W=8'0"	12' 1"	7'4"	–	–	–	–	5'5"	1'5"	5'6"	5'5"	124#

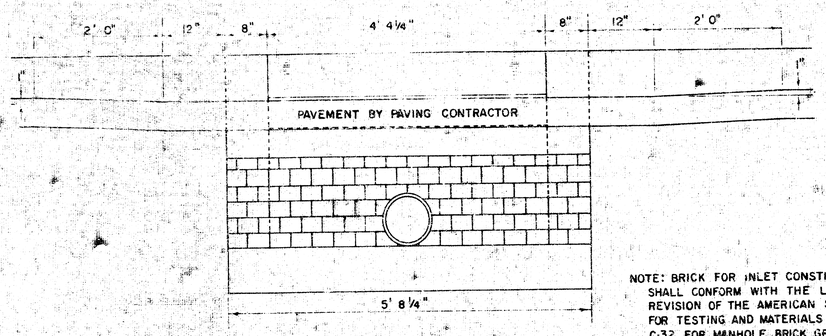
* NOTE: a_2 BARS TO BE PLACED APPROX. 2" BELOW TOP OF INLET COVER

STANDARD CURB INLET PRECAST TOPS			
W	PRE-CAST TOP SIZE	PIPE SIZE	CU. YD. CONC.
4' 2"	36"x5'8 1/4"x7 1/2"	21" & SMALLER	0.46 *
5' 0"	44"x5'8 1/4"x7 1/2"	24" & 30"	0.57 *
6' 0"	54"x5'8 1/4"x7 1/2"	36" & 42"	0.71 *
7' 0"	64"x5'8 1/4"x7 1/2"	48" & 54"	0.84 *
8' 0"	74"x5'8 1/4"x7 1/2"	60" & 66"	0.97 *

* GROSS VOLUME

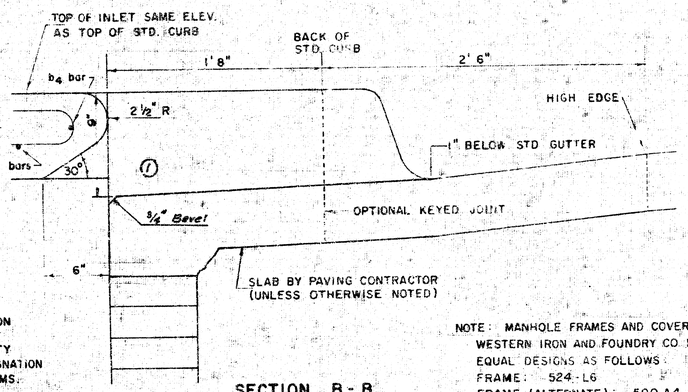


MANHOLE COVER
(SCALE 1" = 6")
WEIGHT = 170 LBS.

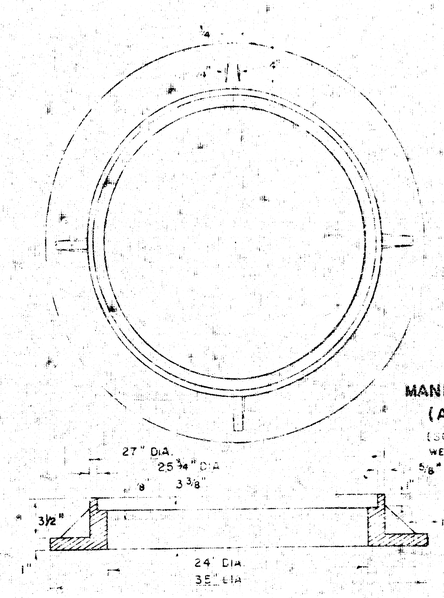


SECTION C-C
(SCALE 1" = 1'0")

NOTE: BRICK FOR INLET CONSTRUCTION SHALL CONFORM WITH THE LATEST REVISION OF THE AMERICAN SOCIETY FOR TESTING AND MATERIALS DESIGNATION C-32 FOR MANHOLE BRICK GRADE MS.



SECTION B-B
(SCALE 1" = 6")



MANHOLE FRAME (ALTERNATE)
(SCALE 1" = 6")
WEIGHT = 180 LBS.

NOTE: MANHOLE FRAMES AND COVER ARE WESTERN IRON AND FOUNDRY CO. INC. OR EQUAL DESIGNS AS FOLLOWS:
FRAME: 524-L6
FRAME (ALTERNATE): 500 A4
COVER: 222 S4 "NOBBY"

(1) Rev. 5-18-81

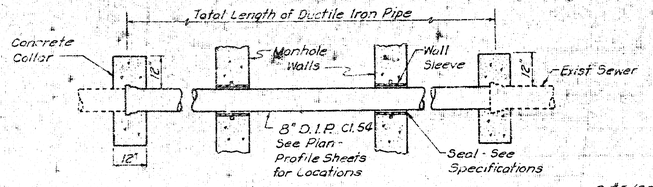
DETAIL STANDARD TYPE IA CURB INLET

CITY OF WICHITA, KANSAS

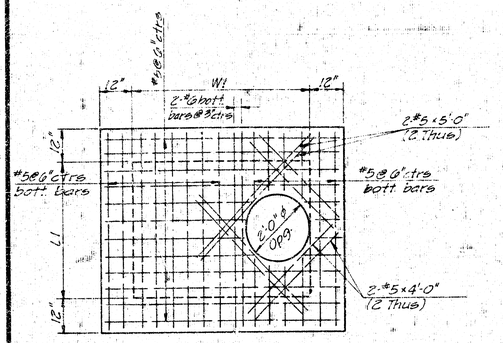
R.W. BRUGGEMAN, DIRECTOR OF ENGINEERING/ CITY ENGINEER

JUNE, 1981

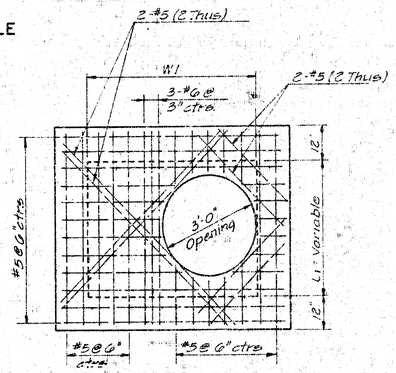
7/9



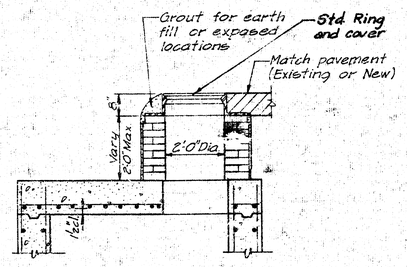
SANITARY SEWER PIPE THRU MANHOLE



TOP SLAB REINFORCING

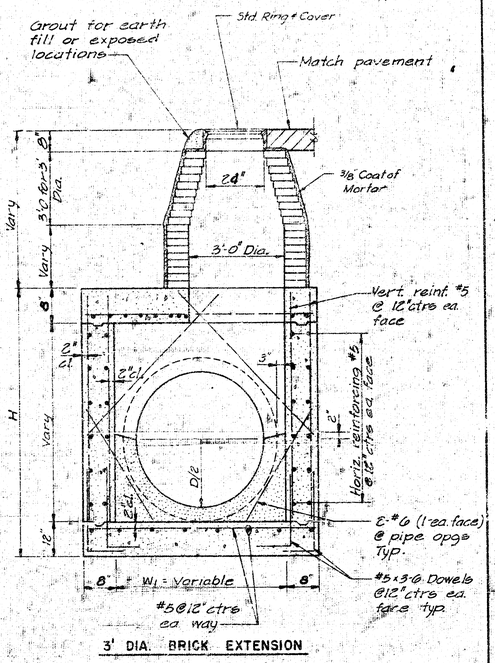


TOP SLAB REINFORCING



2' DIA. BRICK EXTENSION

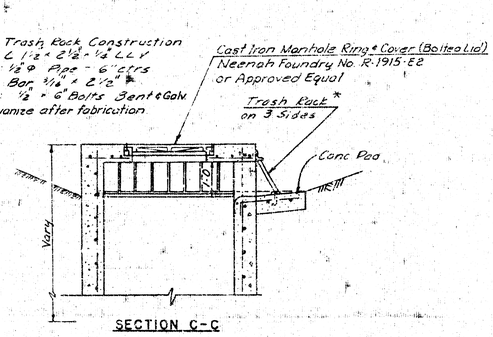
Bottom same as shown on 3' Dia. Brick Extension



3' DIA. BRICK EXTENSION

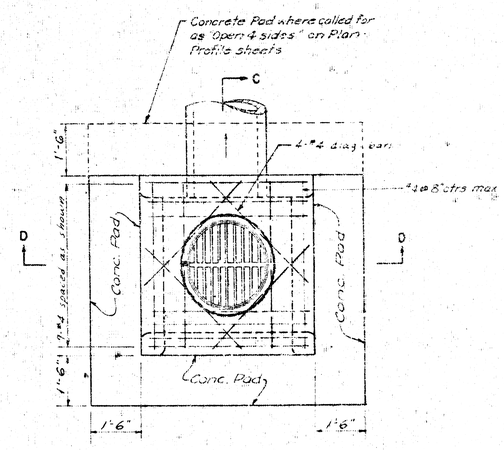
REINFORCED CONCRETE MANHOLE

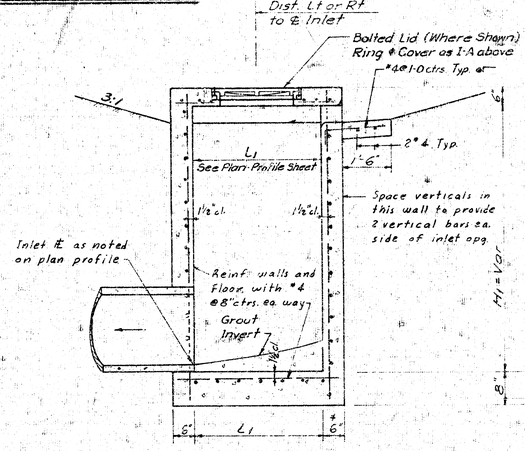
* NOTE:
Typical Trash Rack Construction
Top Rail: L 1½ x 2½ - ¼ LLV
Verticals ½ ø Pipe - 6" ctrs
Bot Rail: Bar ¾" x 2½"
Anchors: ½" x 6" Bolts Bent & Galv.
Hot Dip Galvanize after fabrication.

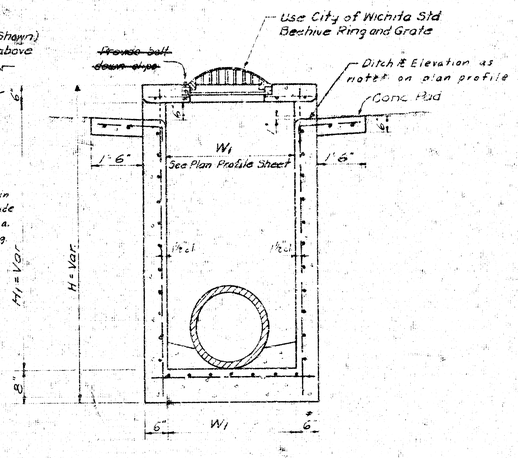


for

DITCH INLET TYPE I-A





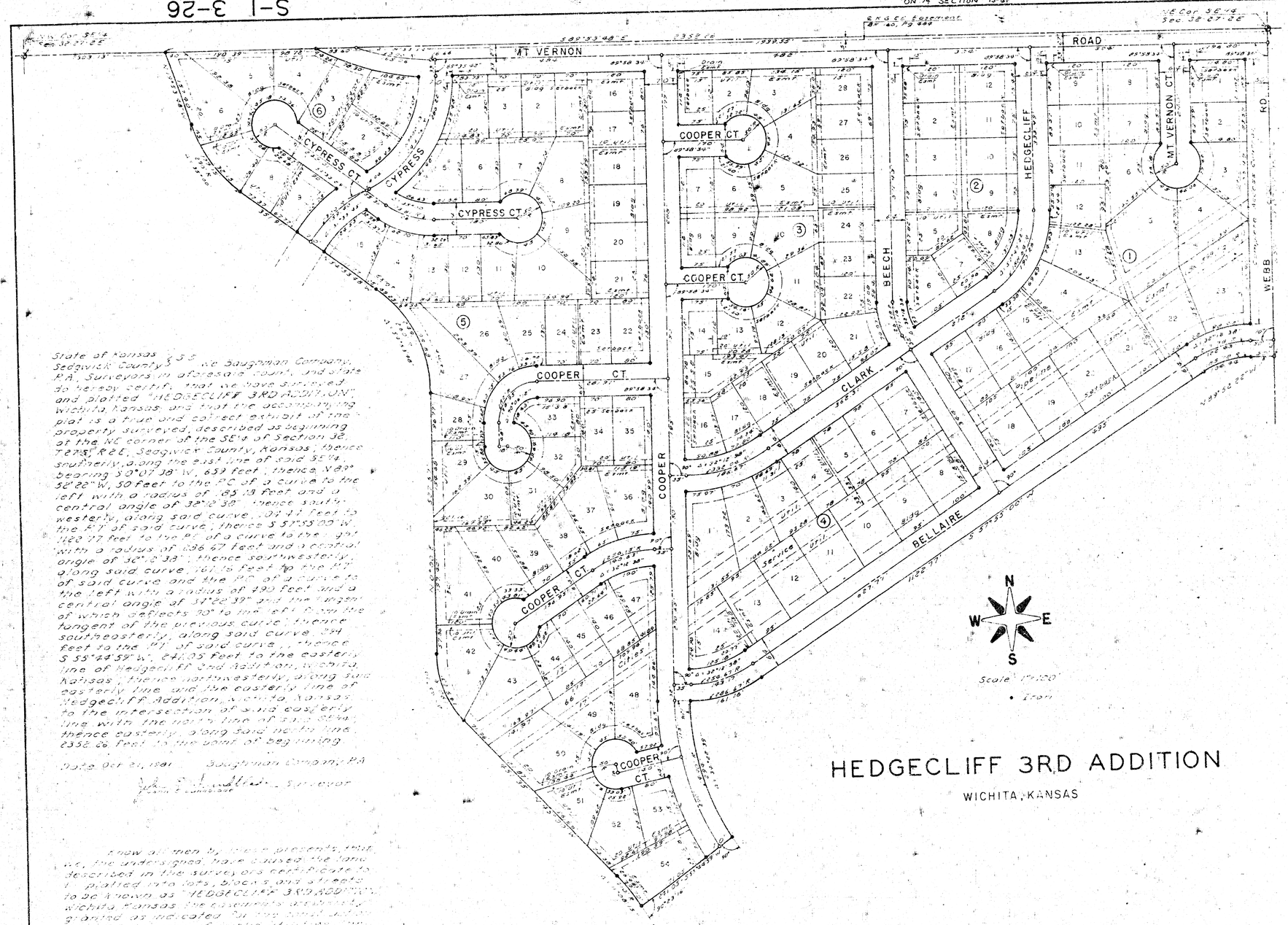


DITCH INLET TYPE I

* Where dimension "H1" is greater than 6', use 8" wall thickness.

S-1 3-26

ON ¼ SECTION 13-64



Scale: 1"=100'

HEDGECLIFF 3RD ADDITION

WICHITA, KANSAS

State of Kansas } S S
Sedgwick County }

We Baughman Company, P.A. Surveyors in aforesaid county and state do hereby certify that we have surveyed and platted "HEDGECLIFF 3RD ADDITION" within Kansas and that the accompanying plat is a true and correct exhibit of the property surveyed, described as beginning at the NE corner of the SE¼ of Section 36, T25S, R2E, Sedgwick County, Kansas; thence southerly, along the east line of said SE¼, bearing S 0°01'38" W, 653 feet; thence N 89° 58'22" W, 50 feet to the PC of a curve to the left with a radius of 185.13 feet and a central angle of 32°12'38"; thence southwesterly, along said curve, 104.11 feet to the PT of said curve; thence S 57°48'00" W, 162.77 feet to the PC of a curve to the right with a radius of 236.67 feet and a central angle of 36°23'38"; thence southwesterly, along said curve, 150.33 feet to the PT of said curve and the PC of a curve to the left with a radius of 190 feet and a central angle of 31°22'39" and the tangent of which deflects 70° to the left from the tangent of the previous curve; thence southeasterly, along said curve, 284 feet to the PT of said curve; thence S 55°48'59" W, 671.05 feet to the easterly line of Hedgecliff 2nd Addition, Wichita, Kansas; thence northwesterly, along said easterly line and the easterly line of Hedgecliff Addition, Wichita, Kansas to the intersection of said easterly line with the north line of said SE¼; thence easterly, along said north line, 2352.66 feet to the point of beginning.

Date Oct 21, 1981 Baughman Company, P.A.

_____ Surveyor

Know all men by these presents, that we, the undersigned, have caused the land described in the surveyor's certificate to be platted into lots, blocks, and streets to be known as "HEDGECLIFF 3RD ADDITION" Wichita, Kansas. The easements as shown are hereby granted as indicated for the use and convenience of public utilities and the streets are hereby dedicated to the public for the use of the public. All abutters have right of access to Webb Rd over and across the east line of Block 1 are hereby granted to the City of Wichita, Kansas.

The Fidelity Investment Co.

_____ Pres.

Attest: _____ Secy.

Kessler Bros., Inc.

_____ Pres.

Attest: _____ Secy.

State of Kansas } S S
Sedgwick County }

Be it remembered that on this ____ day of _____, 1981, before me, a Notary Public in and for said County and State, came _____ President and _____ Secretary of The Fidelity Investment Co. and _____ President and _____ Secretary of Kessler Bros., Inc., who are personally known to me to be such officers and who executed the foregoing instrument of writing and duly acknowledged the execution of the same for and on behalf of said corporations, and for the purposes therein named.

In witness whereof I have hereunto set my hand and affixed my notarial seal the day and year last above written.

_____ Notary Public

My Commission Expires _____

This plat approved and all easements shown hereon accepted by the Board of County Commissioners, Sedgwick County, Kansas, this ____ day of _____, 1981.

_____ Chairman

_____ Commissioner

_____ Commissioner

_____ County Clerk

This plat approved and all easements shown hereon accepted by the City Council of the City of Wichita, Kansas, this ____ day of _____, 1981.

_____ Mayor

_____ City Clerk

Entered on transfer record this ____ day of _____, 1981.

_____ County Clerk

State of Kansas } S S
Sedgwick County }

This is to certify that this plat was filed for record in the office of the Register of Deeds this ____ day of _____, 1981, at ____ o'clock ____ M. and duly recorded.

_____ Register of Deeds

_____ Deputy

S-1 3-26 3.5

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