PRIVATE STORM WATER AND SANITARY SEWER PLANS

BUILDER'S SQUARE
STORE No. 1320

PRIVATE PROJECT NO. 326 PPS (607861)

CITY OF WICHITA, KANSAS

MICHAEL E. LINDEBAK, CITY ENGINEER

GENERAL NOTES

1. 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 EMERGENCY:

SOUTHWESTERN BELL TELEPHONE COMPANY	1-571-2115
CABLEVISION	262-4270 OR 263-2061
KP&L GAS SERVICE COMPANY	263-7511
KANSAS GAS & ELECTRIC	264-1141
CITY OF WICHITA WATER DEPARTMENT	268-4908

2. UNDERGROUND UTILITY SERVICE LINES AND OVERHEAD UTILITY POLE LINES ARE TO BE ADJUSTED AS NECESSARY BY OTHERS PRIOR TO CONSTRUCTION UNLESS THE PLANS SPECIFICALLY CALL FOR THEIR ADJUSTMENT BY THE CONTRACTOR OR UNLESS THE PLANS SPECIFICALLY IDENTIFY A UTILITY TO BE ADJUSTED BY ITS OWNER DURING CONSTRUCTION. EXISTING UTILITIES AND THEIR LOCATION, 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.

3. 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.

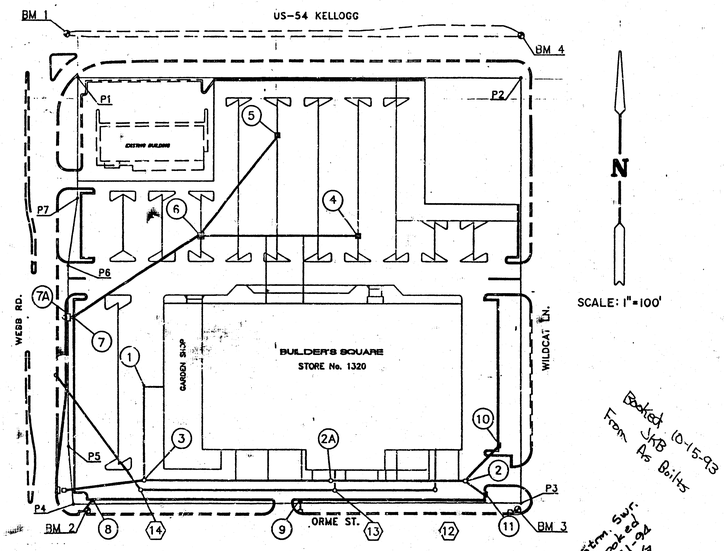
4. COST OF EXCAVATION, HAULING, AND DUMPING OF EXCESS EXCAVATION SHALL BE SUBSIDIARY TO THE PROJECT.

5. A PORTION OF EXCESS EXCAVATED MATERIAL SHALL BE MOUNDED AROUND MANHOLES WHICH EXTEND MORE THAN ONE (1) FOOT ABOVE THE EXISTING GROUND. SUCH MOUNDS SHALL BE CONSTRUCTED WITH A SIX (6) FOOT DIAMETER FLAT TOP WITH 4 TO 1 SIDE SLOPES DOWN TO THE ORIGINAL GROUND. THE ELEVATION OF THE FLAT TOP OF THE MOUND SHALL BE 0.4 FOOT BELOW THE TOP OF THE MANHOLE.

6. ALL STUBS AND PLUGGED PIPES SHALL BE LOCATED WITH GREEN PLASTIC TAPE FASTENED TO THE END OF THE PIPE AND EXTENDED TO THE GROUND SURFACE AS THE EXCAVATION IS BACKFILLED, SUCH THAT THE COLORED TAPE IS VISIBLE WHEN THE PROJECT IS COMPLETED. THE ENDS OF THE PIPES SHALL BE CAPPED OR PLUGGED USING FITTINGS FURNISHED BY THE MANUFACTURER OF THE PIPE.

7. WHERE CONNECTING TO AN EXISTING MANHOLE, THE CONTRACTOR SHALL RESHAPE THE EXISTING MANHOLE INVERT TO PROVIDE SMOOTH FLOW. THE COST OF RESHAPING EXISTING MANHOLE INVERTS IS INCIDENTAL TO THE PROJECT.

8. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PRESERVING PROPERTY IRONS. THE CONTRACTOR SHALL BE REQUESTED 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.



HORIZONTAL CONTROL

POINT I.D.	DESCRIPTION	COORDINATES NORTH	COORDINATES EAST
P1	N.W. Prop. Cor. (Iron Pin)	4920.998	1075.000
P2	N.E. Prop. Cor. (Iron Pin)	4921.766	1755.144
P3	S.E. Prop. Cor. (Iron Pin)	4291.767	1755.868
P4	S.W. Prop. Cor. (Iron Pin)	4288.194	1067.338
P5	Prop. Cor./ W. Line (Iron Pin)	4373.389	1060.000
P6	Prop. Cor./ W. Line (Cross)	4640.709	1060.000
P7	Prop. Cor./ W. Line (Cross)	4740.858	1075.000
1	Storm Sewer Cleanout	4463.891	1177.859
2	Storm Sewer Manhole	4324.450	1673.017
2A	Storm Sewer Manhole	4324.215	1465.017
3	Storm Sewer Manhole	4323.891	1178.017
4	Storm Sewer Area Inlet	4685.261	1505.203
5	Storm Sewer Area Inlet	4835.125	1385.203
6	Storm Sewer Area Inlet	4684.989	1265.203
7	Storm Sewer Inlet Manhole	4564.277	1067.746
7A	Storm Swr. Curb Inlet Type IA	4564.279	1060.893
8	Storm Sewer Curb Inlet	4294.842	1097.550
9	Storm Sewer Curb Inlet	4295.206	1420.108
10	Storm Sewer Curb Inlet	4376.945	1721.916
11	Storm Sewer Curb Inlet	4303.984	1701.949
12	Sanitary Sewer Manhole	4309.399	1628.034
13	Sanitary Sewer Manhole	4309.222	1471.534
14	Sanitary Sewer Manhole	4308.885	1173.034

BENCH MARKS

BENCH MARK ELEVATION CONVERSION TO CITY DATUM = ELEVATION SHOWN - 1187.4

BM No. 1 "□" CUT TC ON NOSE IN KELLOGG MEDIAN ON EAST SIDE OF WEBB ROAD ELEVATION 1368.465 N 4986.054, E 1057.783

BM No. 2 "□" CUT ON NE CORNER OF EAST INLET ON NE CORNER OF ORME & WEBB ELEVATION 1365.725 N 4278.688, E 1089.024

BM No. 3 "□" CUT ON NE CORNER OF EAST INLET ON NW CORNER OF ORME & WILDCAT ELEVATION 1369.080 N 4282.604, E 1751.177

BM No. 4 "□" CUT ON TC NOSE MEDIAN IN KELLOGG ON WEST SIDE OF WILDCAT LN. ELEVATION 1372.730 N 4985.419, E 1755.218

APPROVED AS NOTED
BY CITY ENGINEERING OF WICHITA

SANITARY SEWERS VR H 3/19/92

STORM SEWERS VR H 3/19/92

DRIVEWAY APPROACHES

WATER MAINS

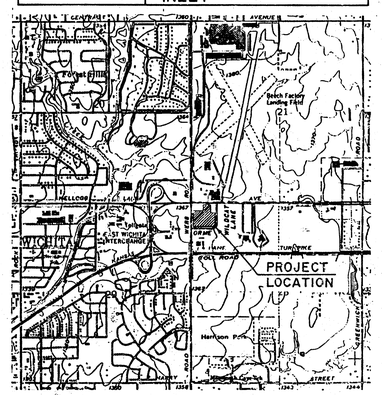
PAVING

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.

INDEX TO DRAWINGS

SHEET NO.	DESCRIPTION
1	TITLE SHEET
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5	SANITARY SEWER PLAN/ PROFILE
6-7	MISCELLANEOUS DETAILS
8	STANDARD TYPE IA CURB INLET



LOCATION MAP

JOHN W. WHITE LICENSED 7685 KANSAS PROFESSIONAL ENGINEER

AS BUILT 7-31-92

BUILDER'S SQUARE
STORE No. 1320

STORM WATER
AND
SANITARY SEWER PLANS

Design MAM
Drawn by DMS
Checked by
Date FEB. 1992
Job no. 91-23-03

Sheet 1 of 8

WHITE, MARTIN & ASSOCIATES, INC.
ENGINEERING CONSULTANTS
1725 S.W. GAGE BOULEVARD PH. (913) 271-7100
TOPEKA, KANSAS 66604 FAX (913) 271-8108

BUILDER'S SQUARE
STORE NO. 1320
STORM SEWER PLAN/PROFILE
WICHITA, KANSAS

NOTE: Const. notes shown in plan reflect top Elev. only. See profile for flow line elev.

NOTE: See Utility Plan (Builder's Square) for Roof Drain locations.

Proposed Curb & Gutter

10' Pipeline Easement Beech Aircraft

Kansas Turnpike Easement

Existing San. Sew.

Existing Strm. Sew.

Begin Sta. 30+00.00 Line ST-3

End Sta. 31+25.00 Line ST-3, Begin Line ST-2B(E) & Line ST-1 (N)

ST-1 (SEE SHEET 3)

ST-2B (SEE SHEET 3)

Connect to Exist Manhole, Sta 30+00.00

ST-3

Const. 5' Dia. Manhole. No. 3 Top Elev. ~~1369.00~~ 1369.10 A.B.

Lumber Staging

Bldg. Line

Property Line

20' Utility Easement

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

Proposed Curb & Gutter

ST-9

Exist. UGT

Exist. 8" W

ST-8

End Line ST-8, Const. Pre-Cast Curb Inlet Top Elev. = ~~1368.20~~ 1368.40 A.B.

BM # 2

Connect to Exist. Inlet Line ST-8 Install 22 L.F. 15" RCP Strm. Sew.

End Line ST-9 Const. Pre-Cast Curb Inlet Top Elev = ~~1368.40~~ 1368.60 A.B.

Connect to Exist. Inlet Line ST-9 Install 15 L.F. 15" RCP Strm. Sew.

19.80'

ST-5 (SEE SHEET 4)

ST-6 (SEE SHEET 4)

Begin Sta. 70+00.00 Line ST-4

End Sta. 72+40.00 Line ST-4

ST-4

Area Inlet No. 6 Const. Special 6'×6' Area Inlet. Top Elev = 1367.94 A.B.

Area Inlet No. 4 Const. 4'×4' Inlet Top Elev = ~~1367.94~~ 1368.0 A.B.

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

Garden Shop

Bldg. Line

BENCH MARKS

(See Sheet No. 1 for conversion to City Datum)

BM No. 1 "a" cut TC on nose in Kellogg median on E. side of Webb Rd. Elev. 1368.465

BM No. 2 "a" cut on NE cor. of E. Inlet on NE cor. of Orme & Webb. Elev. 1365.725

BM No. 3 "a" cut on NE cor. of E. Inlet on NW cor. of Orme & Wildcat. Elev. 1369.080

BM No. 4 "a" cut on TC nose median in Kellogg c.l. W. side of Wildcat Ln. Elev. 1372.730

PLAN
SURVEYED
PLOTTED — CHECKED
NOTE BOOK — AS OF MAY CHECKED
No. — STRUCTURE MOVEMENTS CHECKED
BY
DATE

PROFILE
SURVEYED
PLOTTED
NOTE BOOK — CROSS CHECKED
No. — STRUCTURE MOVEMENTS CHECKED
BY
DATE

Existing Manhole Sta. 30+00.00 Begin Line ST-3

Proposed Grade

126 A.B. 125 L.F. 30" RCP Strm. Sew. @ 0.50%

Manhole No. 3 Sta. 31+25.00 End Line ST-3

8" San. Sew.

ST-2B

Existing Inlet Manhole
Top = 1366.45 A.B.
E In = ~~1360.5~~ (ST-3)(ENE) 1360.6 A.B.
E Out = 1360.4 (Exist.)

ST-3

Manhole No. 3
Top = ~~1369.00~~ 1369.10 A.B.
E In = 1361.92 (ST-1)(N) 1362.2 A.B.
E In = 1361.22 (ST-2B)(E) ~~1361.5~~ A.B.
E Out = 1361.12 (ST-3)(WSW) 1361.4 A.B.

Exist. 8" San. Sew.

Proposed Grade

20 A.B. ~~22~~ L.F. 15" RCP Strm. Sew. @ 1.00%

Exist. Inlet

Curb Inlet No. 8

ST-8

2' Cover (min)

Exist. 21" R.C.P.

Exist. Top = 1365.7 A.B.
E In = 1363.00 (ST-8) A.B.
E Out = 1362.75 (Exist.)

Curb Inlet
Top = ~~1368.20~~ 1368.40 A.B.
E Out = ~~1363.22~~ (ST-8) 1363.40 A.B.

Exist. UGT

Exist. 8" Water

Exist. 18"×24" R.C.P.

Exist. Curb Inlet
Top = 1367.4 A.B.
E In = 1365.00 (ST-9) A.B.
E Out = 1364.7 (Exist.)

Curb Inlet No. 9

ST-9

2' Cover (min)

A.B. 15 L.F. 15" RCP Strm. Sew. @ 1.00%

Curb Inlet
Top = ~~1368.40~~ 1368.60 A.B.
E Out = 1365.15 (ST-9) 1365.30 A.B.

Exist. UGT

Exist. 8" Water

Area Inlet No. 6 Begin Sta. 70+00.00 Line ST-4

Proposed Grade

A.B. 240 L.F. 24" PVC Strm. Sew. @ 0.50%

ST-6

Area Inlet No. 6
Special 6'×6'
Top = 1367.91 A.B.
E In = ~~1362.76~~ (ST-4)(E) 1364.70 A.B.
E In = ~~1365.00~~ (ST-5)(NE) 1362.95 A.B.
E Out = ~~1362.66~~ (ST-6)(SW) 1362.65 A.B.

ST-4

Area Inlet No. 4 End Sta. 72+40.00 Line ST-4

Area Inlet No. 4
Top = 1367.94 1368.0 A.B.
E Out = ~~1363.96~~ (ST-4)(W) 1363.85 A.B.

70+00 71 72 72+60

PLATE 1 PLAN-PROFILE U. P. R. & R. E. STANDARD
DIETZGEN CORPORATION
PRINTED IN U.S.A.

WHITE, MARTIN & ASSOCIATES, INC.
1728 S.W. GAGE BLVD.
TOPEKA, KANSAS 66604

NOTE: Const. notes shown in plan reflect top elev. only. See profile for flow line elevations.

BUILDER'S SQUARE
STORE NO. 1320
F.F. ELEV. = 1370.50

BENCH MARKS
(See Sheet No. 1 for conversion to City Datum)

BM No. 1 "□" cut TC on nose in Kellogg median on E. side of Webb Rd. Elev. 1368.465

BM No. 2 "□" cut on NE cor. of E. Inlet on NE cor. of Orme & Webb. Elev. 1365.725

BM No. 3 "□" cut on NE cor. of E. Inlet on NW cor. of Orme & Wildcat. Elev. 1369.080

BM No. 4 "□" cut on TC nose median in Kellogg on W. side of Wildcat Ln. Elev. 1372.730

BUILDER'S SQUARE
STORE NO. 1320
STORM SEWER PLAN/PROFILE
WICHITA, KANSAS

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

Cleanout Top = ~~1369.20~~ (ST-1)(S) 1369.30 A.B.
End Line ST-1 Sta. 11+40.00
30'
5' Typ.
RD-A
ST-1
Lumber Staging
122'
Begin Sta. 10+00.00, Line ST-1
ST-3 (SEE SHEET 2)
NOTE: See Utility Plan (Builder's Square) for Roof Drain locations.
Bldg. Line
5' Typ.
RD-K
RD-J
RD-I
RD-H
End Sta. 34+12.00, Line ST-2B = Begin Sta. 34+12.00, Line ST-2A
Const. 4' Dia. Manhole No. 2A
Top Elev. = ~~1369.40~~ 1369.53 A.B.
RD-D
RD-G
RD-F
TD-E
SS-1
RD-B
Bldg. Line
Proposed Curb & Gutter
Property Line
End Sta. 36+90.00, Line ST-10
Const. Pre-Cast Curb Inlet
Top Elev. = ~~1368.80~~ 1368.85 A.B.
ST-10
End Sta. 31+25.00, Line ST-3 = Begin Sta. 31+25.00, Line ST-2B
ST-2B
Const. 4' Dia. Manhole No. 3
Top Elev. = ~~1369.00~~ 1369.10 A.B.
Sta. 33+95 to Sta. 34+07
Const. 12 L.F. Conc. Encasement
SS-2
ST-2A
End Sta. 36+20.00, Line ST-2A
Begin Sta. 36+20.00, Line ST-10
End Sta. 36+20.00, Line ST-2A
Begin Sta. 40+00.00, Line ST-11
ST-11
SS-3B
SS-3A
Proposed Curb & Gutter
Property Line
Const. 4' Dia. Manhole No. 2
Top Elev. = 1369.50
1369.55 A.B.
End Sta. 40+35.00, Line ST-11
Const. Pre-Cast Curb Inlet
Top Elev. = ~~1369.80~~ 1369.35 A.B.

Manhole No. 3 Sta. 31+25.00 Line ST-3
End Line ST-3 Begin Line ST-2B
6" San. Swr.
Proposed Grade
ST-1
Cleanout No. 1 Sta. 11+40.00 End Line ST-1
A.B. 140 L.F. 12" PVC Strm. Sew. @ 2.50%
ST-3
Cleanout No. 1
Top = ~~1369.80~~ 1369.30 A.B.
E Out = 1365.92 (ST-1)(S) A.B.
Manhole No. 3
Top = ~~1369.00~~ 1369.10 A.B.
E In = ~~1361.92~~ (ST-1)(N) 1362.2 A.B.
E In = ~~1361.22~~ (ST-2B)(E) 1361.5 A.B.
E Out = ~~1361.12~~ (ST-3)(WSW) 1361.4 A.B.
Manhole No. 2 Sta. 36+20.00 Line ST-2A Begin Line ST-10
Curb Inlet No. 10 End Line ST-10
Proposed Grade
ST-10
A.B. 70 L.F. 12" PVC Strm. Sew. @ 1.00%
Manhole No. 2
Top = ~~1369.50~~ 1369.55 A.B.
E In = ~~1364.25~~ (ST-10)(NE) ~~1364.25~~ A.B.
E In = ~~1364.35~~ (ST-11)(SW) ~~1364.35~~ A.B.
E Out = ~~1363.89~~ (ST-2A)(W) ~~1363.76~~ A.B.
Curb Inlet No. 10
Top = ~~1368.80~~ 1368.85 A.B.
E Out = ~~1365.05~~ (ST-10)(SW) A.B.
Manhole No. 2 Sta. 36+20.00 End Line ST-2A Begin Line ST-11
ST-11
A.B. 33 L.F. 36" A.B. 12" PVC Strm. Sew. @ 1.00%
Curb Inlet No. 11
Top = ~~1369.80~~ 1369.35 A.B.
E Out = ~~1365.04~~ (ST-11)(NW)
Manhole No. 2
Top = ~~1369.50~~ 1369.55 A.B.
E In = ~~1364.35~~ (ST-10)(NE) ~~1364.25~~ A.B.
E In = ~~1364.69~~ (ST-11)(SW) ~~1364.65~~ A.B.
E Out = ~~1363.89~~ (ST-2A)(W) ~~1363.76~~ A.B.
Manhole No. 3 Sta. 31+25.00 End Line ST-3 Begin Line ST-2B
6" San. Swr.
Proposed Grade
ST-3
A.B. 287 L.F. 24" PVC Strm. Sew. @ 0.52%
Manhole No. 3
Top = ~~1369.00~~ 1369.10 A.B.
E In = ~~1361.92~~ (ST-1)(N) 1362.2 A.B.
E In = ~~1361.22~~ (ST-2B)(E) 1361.5 A.B.
E Out = ~~1361.12~~ (ST-3)(WSW) 1361.4 A.B.
ST-2B
Manhole No. 2A Sta. 34+12.00 End Line ST-2B, Begin Line ST-2A
Proposed Grade
A.B. 208 L.F. 24" PVC Strm. Sew. @ 0.52%
Concrete Encasement
6" San. Swr.
Manhole No. 2A
Top = ~~1369.40~~ 1369.53 A.B.
E In = ~~1362.81~~ (ST-2A)(E) ~~1362.74~~ A.B.
E Out = ~~1362.71~~ (ST-2B)(W) ~~1362.74~~ A.B.
ST-2A
Manhole No. 2 Sta. 36+20.00 End Line ST-2A
Manhole No. 2
Top = ~~1369.50~~ 1369.55 A.B.
E In = ~~1364.35~~ (ST-10)(NE) ~~1364.25~~ A.B.
E In = ~~1364.69~~ (ST-11)(SE) ~~1364.65~~ A.B.
E Out = ~~1363.89~~ (ST-2A)(W) ~~1363.76~~ A.B.

31+00 32 33 34 35+00 36 37+00

PLAN: SURVEYED, PLOTTED, CHECKED, NOTE BOOK, NO., DATE, BY
PROFILE: SURVEYED, PLOTTED, CHECKED, NOTE BOOK, NO., DATE, BY, STRUCTURE NOTATIONS CHECKED

PLATE 1 PLAN-PROFILE O. P. S. & R. E. STANDARD
DIETZGEN CORPORATION
PRINTED IN U.S.A.

WHITE, MARTIN & ASSOCIATES, INC.
1725 GAGE BLVD.

BUILDER'S SQUARE
STORE NO. 1320
STORM SEWER PLAN / PROFILE
WICHITA, KANSAS

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

NOTE: Const. notes shown in plan reflect top elev. only. See profile for flow line elevations.

Property Line

7.5' Sidewalk & Utility Easement

Proposed Curb & Gutter

Install 4 L.F. 30" RCP Strm. Sew. Line ST-7B, Connect to Existing Manhole

Exist. Strm. Sew.

Const. Std. Type 1A Curb Inlet No. 7A
Top Elev. = ~~1366.15~~ 1366.00 A.B.

ST-7B

Exist. San. Sew. I

Exist. 12" C.G.S.P.

7

7A

Begin Sta. 90+00.00 Line ST-6

Const. 5' Dia. Inlet Manhole No. 7
Top Elev. = ~~1366.26~~ 1367.50 A.B.

ST-7A

ST-6

Install 4 L.F. 30" RCP Strm. Sew. Line ST-7A

Proposed Curb & Gutter

Property Line

20' Utility Easement

10' 10'

Exist. 8" VCP San. Sew.

100.20'

86'

Area Inlet No. 5
Const. 4'×4' Inlet
Top Elev. = 1367.80

5

End Sta. 94+30.48 Line ST-5

Proposed Curb & Gutter

19.80'

Area Inlet No. 6
Const. Special 6'×6' Area Inlet
Top Elev. = 1367.94

6

81'

ST-5

End Sta. 92+30.00 Line ST-6
Begin Sta. 92+38.48 Line ST-5

ST-4 (SEE SHEET 2)

Exist. 8" VCP San. Sew.

Construct Concrete Encasement

BENCH MARKS

(See Sheet No. 1 for conversion to City Datum)

BM No. 1 "a" cut TC on nose in Kellogg median on E. side of Webb Rd. Elev. 1368.465

BM No. 2 "a" cut on NE cor. of E. Inlet on NE cor. of Orme & Webb. Elev. 1365.725

BM No. 3 "a" cut on NE cor. of E. Inlet on NW cor. of Orme & Wildcat. Elev. 1369.080

BM No. 4 "a" cut on TC nose median in Kellogg on W. side of Wildcat Ln. Elev. 1372.730

PLAN — SURVEYED — NOTE BOOK — No. — DATE — PLOTTED — PROPERTY CHECKED — ST. OF WAY CHECKED

PROFILE — SURVEYED — NOTE BOOK — No. — DATE — PLOTTED — CHECKED — STRUCTURE LOCATIONS CHECKED

1370
1365
1360

Exist Manhole
1363.40 A.B. Top = 1365.70 (New)
1361.3 A.B. ℄ In = ~~1361.15~~ (ST-7B)
1361.3 A.B. ℄ Out = ~~1361.1~~ (Exist.)

Std. Type 1A
Curb Inlet No. 7A
Top = ~~1366.15~~ 1366.00 A.B.
℄ In = 1361.24 (ST-7A)(E)
℄ Out = 1361.19 (ST-7B)(W)

Exist. Manhole Strm. Sew.

Std. Type 1A Curb Inlet No. 7A

Inlet Manhole No. 7 Begin Sta. 90+00.00 Line ST-6

Proposed Grade

ST-7B

ST-7A

230 L.F. 30" RCP Strm. Sew. @ 0.58%

ST-6

Curb Inlet Manhole No. 7
Top = ~~1366.26~~ 1367.50 A.B.
℄ In = ~~1361.33~~ (ST-6)(NE) 1361.40 A.B.
℄ Out = ~~1361.28~~ (ST-7A)(W) 1361.40 A.B.
5.0 A.B.
4 L.F. 30" RCP
Strm. Sew. @ 1.00%
6.0 A.B.
4 L.F. 30" RCP
Strm. Sew. @ 1.00%

Area Inlet No. 6
End Sta. 92+30.00 Line ST-6

Area Inlet No. 6
Begin Sta. 92+38.48 Line ST-5

Area Inlet No. 6
Top = 1367.94 A.B.
℄ In = ~~1362.76~~ (ST-4)(E) 1362.70 A.B.
℄ In = ~~1363.00~~ (ST-5)(NE) ~~1362.94~~ A.B.
℄ Out = ~~1362.66~~ (ST-6)(SW) 1362.65 A.B.

ST-6

ST-5

A.B.
192 L.F. 21" PVC Strm. Sew. @ 0.50%

Area Inlet No. 5
End Sta. 94+30.48 Line ST-5

Area Inlet No. 6
Top = 1367.94 A.B.
℄ In = ~~1362.76~~ (ST-4)(E) 1362.70 A.B.
℄ In = ~~1363.00~~ (ST-5)(NE) 1362.95 A.B.
℄ Out = ~~1362.66~~ (ST-6)(SW) 1362.65 A.B.

Exist. 8" San. Sew.

Concrete Encasement

Area Inlet No. 5
Top = 1367.80 A.B.
℄ Out = 1363.96 A.B.

Area Inlet No. 5
End Sta. 94+30.48 Line ST-5

Proposed Grade

1370
1365
1360

90+00 91 92 92+30 92+38.48 93 94 94+30.48

PLATE 1-SINGLE PLAN AND PROFILE-FULL LINE

WHITE, MARTIN & ASSOCIATES, INC.
1725 S.W. GAGE BLVD.

BUILDER'S SQUARE
STORE NO. 1320
SANITARY SEWER PLAN/PROFILE
WICHITA, KANSAS

NOTE: Const. notes shown in plan reflect top elev. only. See profile for flow line elevations.

BENCH MARKS
(See Sheet No. 1 for conversion to City Datum)

BM No. 1 "a" cut TC on nose in Kellogg median on E. side of Webb Rd. Elev. 1368.465

BM No. 2 "a" cut on NE cor. of E. inlet on NE cor. of Orme & Webb. Elev. 1365.725

BM No. 3 "a" cut on NE cor. of E. inlet on NW cor. of Orme & Wildcat. Elev. 1369.080

BM No. 4 "a" cut on TC nose median in Kellogg on W. side of Wildcat Ln. Elev. 1372.730

BUILDER'S SQUARE
STORE NO. 1320
F.F. ELEV. 1370.50

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

Connect to existing MH
E. In = ~~1357.79~~ (SE) 1357.754 A.B.

Begin Sta. 20+00.00
San. Sew. Line SS-4

Exist. 12" Gas

Exist. San. Sew.

Exist. Strm. Swr.

Prop. Line

Proposed Curb & Gutter

SS-4

ST-1

216 L.F. 8" PVC San. sew. @ 0.50%

Beech Air Pipeline Esmt.

Konsos Turnpike Esmt.

ST-3

Exist. Strm. Sew.

Lumber Staging

35'

5'

40'

43.5'

Truck Well

ST-2B

ST-2A

SS-1

Begin Sta. 50+00.00
San. Sew. Line SS-1

ST-10

ST-11

End Sta. 22+16.00, Line SS-4
Begin Sta. 22+16.00, Line SS-3B

SS-3B

298.5 L.F. 8" PVC San. Sew. @ 0.50%

Const. 4' Dia. Manhole No. 14
Top Elev. = 1368.60

25 L.F. 6" D.I.P. San. Sew. @ 1.00%

SS-2

SS-3A

~~44.5~~ 156.5 A.B.

55 L.F. 6" D.I.P. San. Sew. @ 1.00%

~~44.5~~ L.F. 8" PVC San. Sew. @ 0.50%

End Sta. 25+14.50, Line SS-3B
Begin Sta. 25+14.50, Line SS-3A
Begin Sta. 60+00.00, Line SS-2

Const. 4' Dia. Manhole No. 13
Top Elev. ~~1360.90~~

Const. 4' Dia. Manhole No. 12
Top Elev. ~~1369.44~~
1369.66 A.B.

End Sta. 26+71.00
San. Sew. Line SS-3A

Property Line

1368.99 A.B.

Proposed Curb & Gutter

Exist. Manhole
Sta. 20+00.00
Beg. Line SS-4

Exist. 12" GAS

Proposed Grade

Exist. 42" RCP Strm. Sew.

30" RCP Strm. Swr.

215.2 A.B.
216 L.F. 8" PVC San. Sew. @ 0.50%

Exist. Manhole
Top = 1366.61 A.B.
E. In = ~~1357.60~~ (SS-4)(SE) ~~1357.75~~ A.B.
E. Out = 1357.9 (Exist.)

Manhole No. 14
Sta. 22+16.00.00
End SS-4
Begin SS-3B

Line SS-4

Manhole No. 14
Top = 1368.60 A.B.
E. In = 1358.68 (SS-3B)(E) A.B.
E. Out = 1358.58 (SS-4)(NW) A.B.

Manhole No. 13
Sta. 25+14.50
End SS-3B
Begin SS-3A
Begin SS-2

Manhole No. 13
Sta. 60+00.00
End SS-2

Proposed Grade

Building

25 L.F. 6" D.I.P. San. Sew. @ 1.00%

24" Strm. Sew.

SS-2

E = 1360.69
Connect to Stub from Building

Manhole No. 13
Top = ~~1368.90~~ 1368.99 A.B.
E. In = ~~1360.44~~ (SS-2)(N) 1360.20 A.B.
E. In = ~~1360.27~~ (SS-3A)(E) 1360.0 A.B.
E. Out = ~~1360.17~~ (SS-3B)(W) 1360.0 A.B.

Manhole No. 12
Sta. 26+71.00
Begin SS-1

Proposed Grade

Building

SS-1

24" Strm. Swr.

55 L.F. 6" D.I.P. San. Sew. @ 1.00%

E = 1361.80
Connect to Stub from Building

Manhole No. 12
Top = ~~1369.44~~ 1369.66 A.B.
E. In = ~~1361.25~~ (SS-1)(N) 1361.40 A.B.
E. Out = ~~1361.05~~ (SS-3A)(W) 1361.15 A.B.

Manhole No. 12
Sta. 26+71.00
End SS-3A
Begin SS-1

Proposed Grade

SS-3A

A.B.
156.5 L.F. 8" PVC San. Sew. @ 0.50%

Manhole No. 13
Top = ~~1368.90~~ 1368.99 A.B.
E. In = ~~1360.44~~ (SS-2)(N) 1360.20 A.B.
E. In = ~~1360.27~~ (SS-3A)(E) 1360.0 A.B.
E. Out = ~~1360.17~~ (SS-3B)(W) 1360.0 A.B.

Manhole No. 12
Top = ~~1369.44~~ 1369.66 A.B.
E. In = ~~1361.25~~ (SS-1)(N) 1361.40 A.B.
E. Out = ~~1361.05~~ (SS-3A)(W) 1361.15 A.B.

Proposed Grade

SS-3B

A.B.
298.5 L.F. 8" PVC San. Sew. @ 0.50%

Line SS-4

Manhole No. 14
Top = 1368.60 A.B.
E. In = 1358.68 (SS-3B)(E) A.B.
E. Out = 1358.58 (SS-4)(NW) A.B.

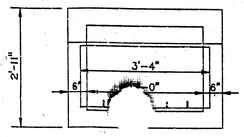
1370
1365
1360
1355

20+00 21 22 22+00 23 24 25+00 26 27+00

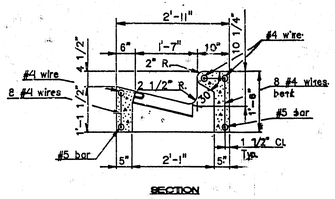
PLATE 1 PLAN-PROFILE O. F. & B. E. STANDARD
DIETZGEN CORPORATION
PRINTED IN U.S.A.

WHITE, MARTIN & ASSOCIATES, INC.
1725 S.W. GAGE BLVD.

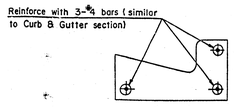
5/8



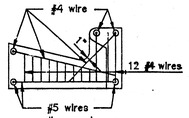
PLAN



SECTION



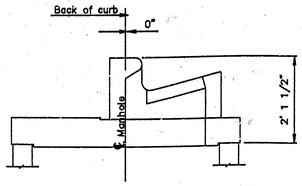
SECTION SHOWING REINFORCING



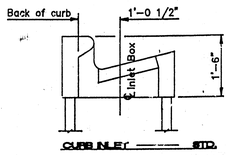
END

PRECAST CURB and GUTTER INLET

WEIGHT = 1000 lbs.



5' DIA. CURB INLET MANHOLE STD.

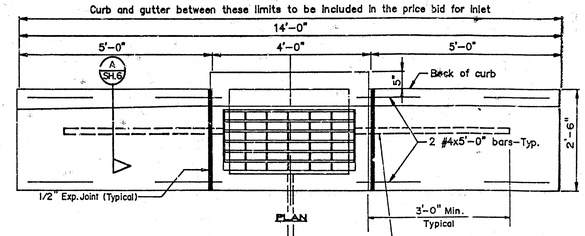


CURB INLET ——— STD.

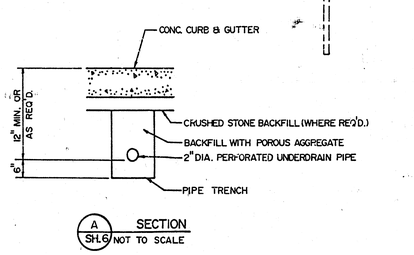
INLET POSITIONS WITH BACK OF CURB

GENERAL NOTES

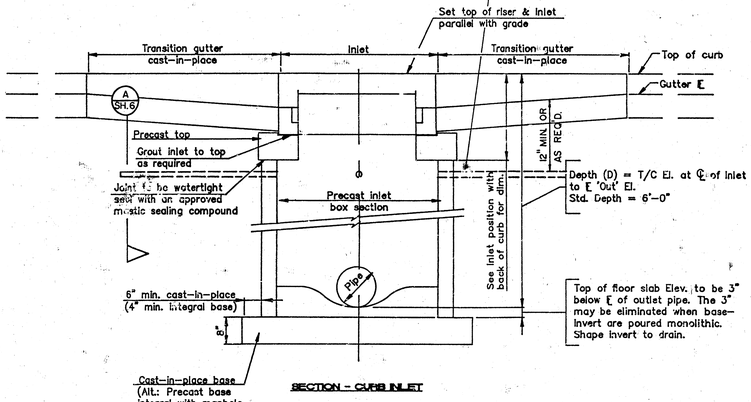
1. CAST INPLACE CONC. SHALL BE CLASS A
2. PRECAST CONC. SHALL BE 4000 PSI.
3. REINFORCING WIRE SHALL CONFORM TO ASTM A82.
4. REINFORCING BARS SHALL CONFORM TO ASTM A615.
5. GROUT ALL PIPES IN PLACE.
6. GRATES & FRAMES SHALL BE ASTM A36 STEEL COATED WITH BITUMASTIC BLACK SOLUTION (COAL TAR BASE) AS MANUFACTURED BY KOPPERS OR APPROVED EQUAL.



PLAN

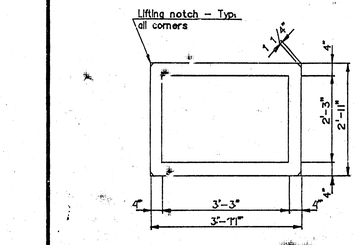


A SH.6 SECTION NOT TO SCALE



SECTION - CURB INLET

INLET DETAILS

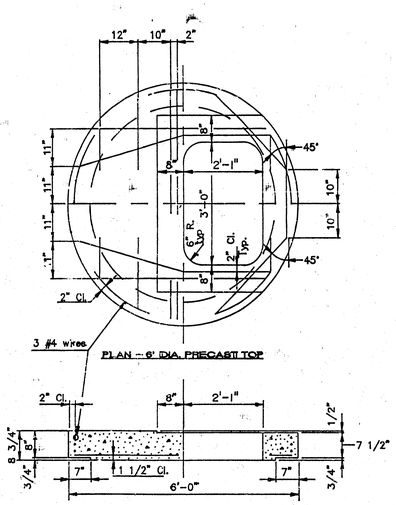


PLAN

NOTE: Pipe blockout varies with pipe size, material and alignment and shall allow 2" clear from pipe to wall

SECTION

PRECAST INLET BOX RISER



PLAN - 6' DIA. PRECAST TOP

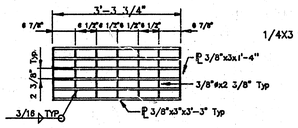
SECTION - 6' DIA. PRECAST TOP

PRECAST INLET MANHOLE TOP NOTES

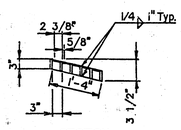
1. All reinforcing shall be #4 bars except as noted
2. All clearance shall be 1 1/2" except as noted

PRECAST INLET MANHOLE RISER NOTES

1. All manhole riser sections shall conform to A.S.T.M. 478-80
2. All manhole construction shall be watertight
3. Steps shall be PSI-PF as manufactured by M.A. Industries Inc. or approved equal and shall be placed to provide easy access to manhole at 16" O.C. max. while maintaining vertical alignment



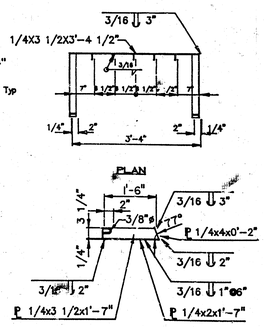
PLAN



SECTION

INLET GRATE

WEIGHT=140 lbs.



SECTION

GRATE FRAME

WEIGHT=30 lbs.

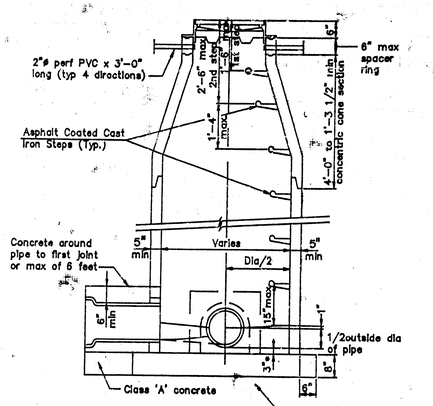
PRECAST INLET MANHOLE RISER and TOPS

BUILDER'S SQUARE
STORE NO. 1320

MISCELLANEOUS DETAILS

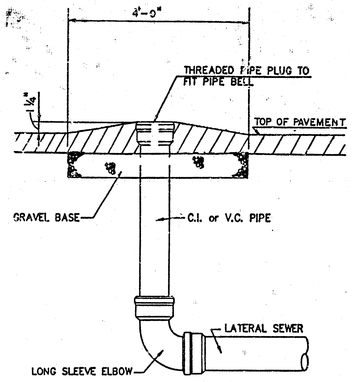
Design	M.A.M.
Drawn by	M.D.G.
Checked by	
Date	FEB. 1992
Job no.	91-23-03
Sheet	6
of	8

WHITE, MARTIN & ASSOCIATES, INC.
ENGINEERING CONSULTANTS
1725 S.W. GAGE BOULEVARD PH. (913) 271-7100
TOPEKA, KANSAS 66604 FAX (913) 271-8108

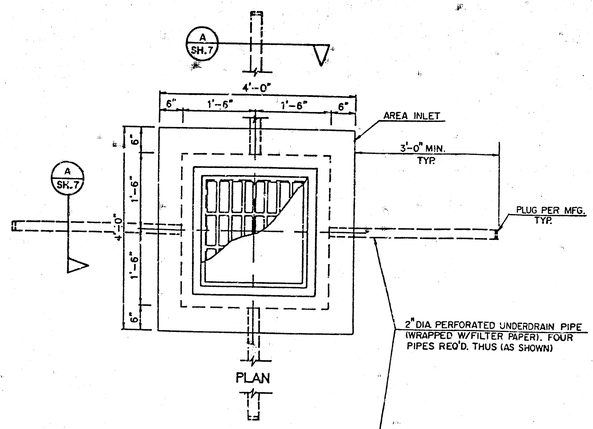


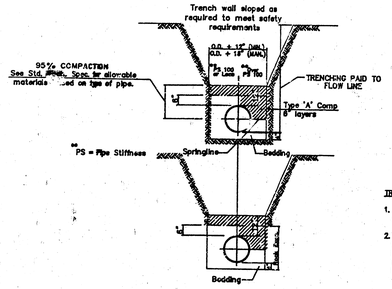
PRE-CAST
STANDARD MANHOLE
SANITARY and STORM

* This 3" to be eliminated when base and invert are poured monolithic



CLEANOUT WITH THREADED CAP
NO SCALE

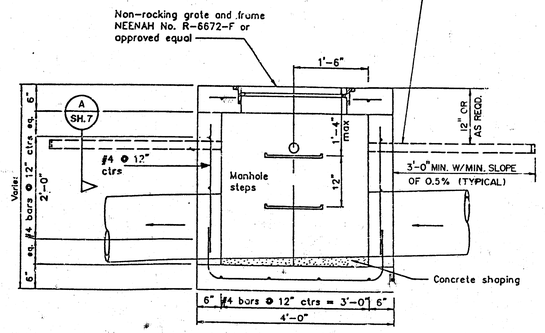




TRENCHING DETAILS
NO SCALE

TRENCHING DETAIL NOTES:

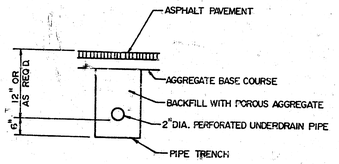
1. The trench shall be excavated to 4" below bottom of the pipe barrel & backfilled as shown above with an approved bedding material.
2. When the sewer is to installed in rock, the trench is to be excavated to a minimum depth of 4" below the bottom of the pipe and backfilled in 6" compacted layers with an approved bedding material as shown above. The rock excavated to be paid as a separate bid item. The embedment in all cases, to included in the price bid per trench, excavation, and backfill.



ELEVATION

AREA INLET DETAILS
NOT TO SCALE

Note: Minimum dimensions are shown. Inside structure dimensions to provide for minimum 6 inches in addition to outside diameter of pipe. Pipes entering on a skew shall provide a total of 6 inches as measured from furthest outside point. Area inlets shall have four (4) radial bleeders of 3 foot long perforated pipe.



A SH.7 SECTION
NOT TO SCALE

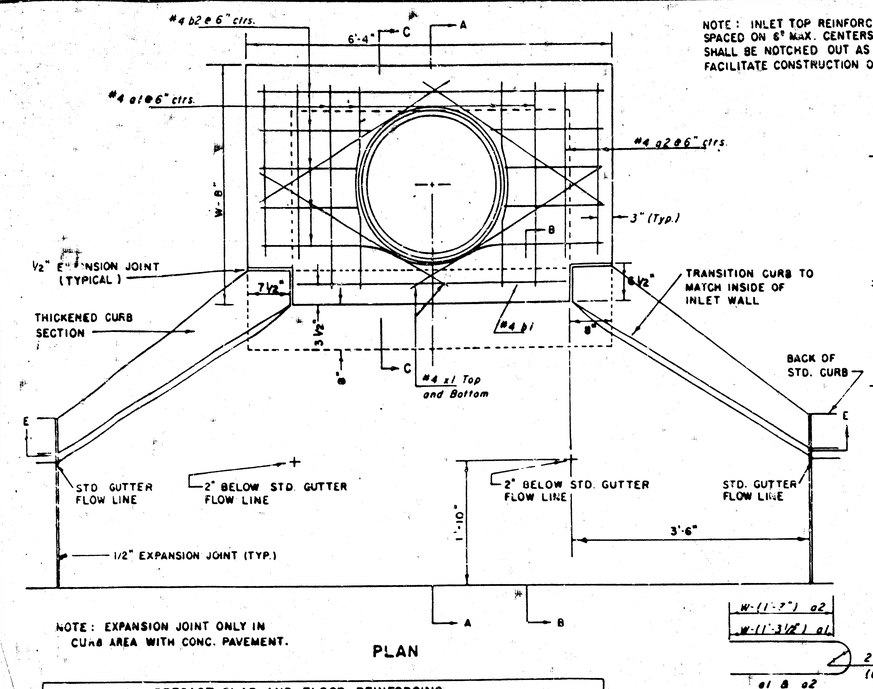
WM

BUILDER'S SQUARE
STORE NO. 1320

MISCELLANEOUS DETAILS

Design M.A.M.
Drawn by M.D.G.
Checked by
Date FEB. 1992
Job no. 91-23-03
Sheet 7 of 8

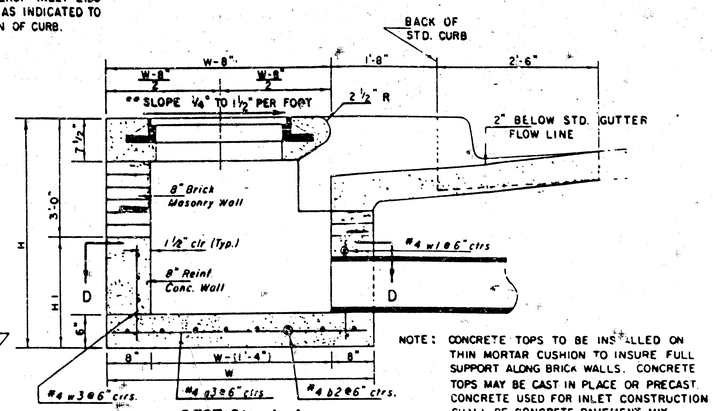
WHITE, MARTIN & ASSOCIATES, INC.
ENGINEERING CONSULTANTS
1725 S.W. GAGE BOULEVARD PH. (913) 271-7100
TOPEKA, KANSAS 66604 FAX (913) 271-8108



NOTE: EXPANSION JOINT ONLY IN CURB AREA WITH CONC. PAVEMENT.

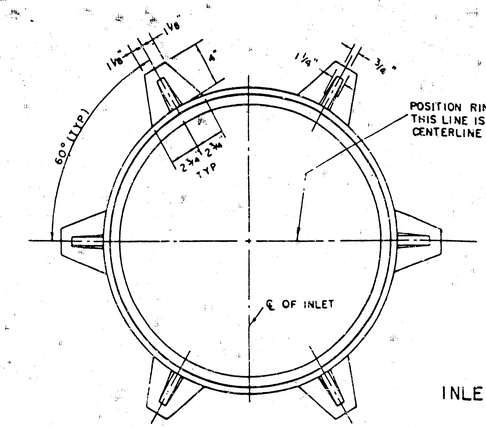
PLAN

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



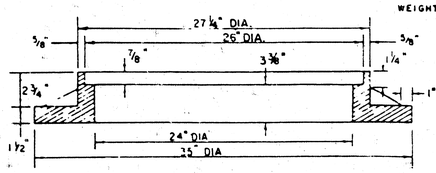
SECTION A-A

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 SETBACK 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

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

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	4'-9"	1	4'-9"	1	4'-9"	1	4'-9"
b2	#4	23	5'-1"	29	6'-1"	35	6'-1"	41	6'-1"	47	6'-1"
s1	#4	8	3'-10"	8	4'-2"	8	4'-6"	8	4'-10"	8	5'-2"

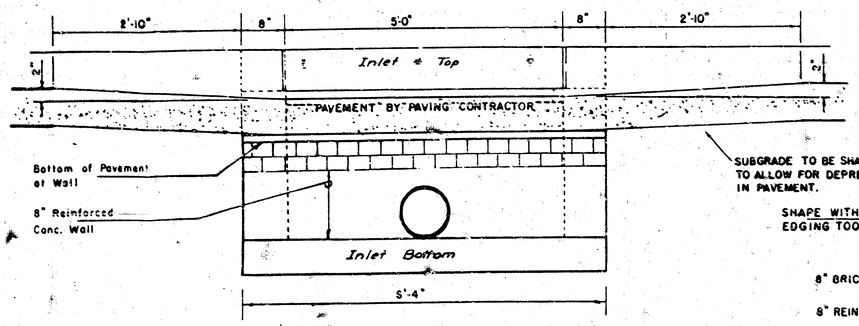
WALL REINFORCING

		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	(1)	6'-1"	(1)	6'-1"	(1)	6'-1"	(1)	6'-1"	(1)	6'-1"
w2	#4	(1)	4'-1"	(1)	5'-1"	(1)	6'-1"	(1)	7'-1"	(1)	8'-1"
w3	#4	32	(2)	36	(2)	40	(2)	44	(2)	48	(2)

* Field bend or cut Reinforcing as required for clearance.

(1) 4(H1-12"); (H1-12") Round down to nearest 0.5"

(2) H1-3"

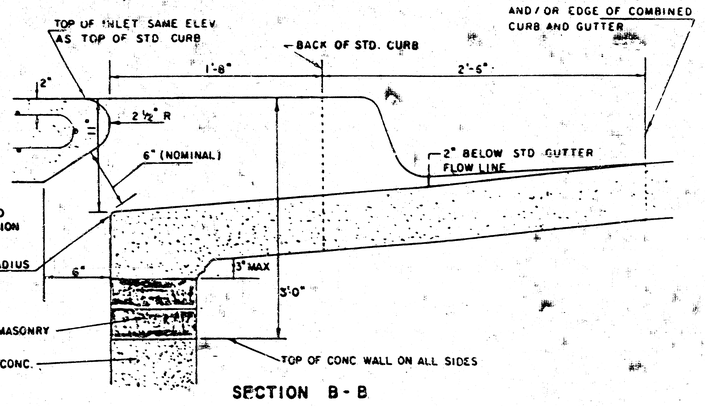


SECTION E-E

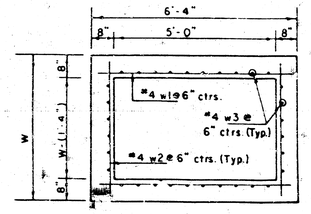
BENDING DIAGRAM

STANDARD CURB INLET PRECAST TOPS

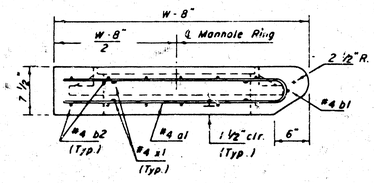
W	PRE-CAST TOP SIZE	PIPE SIZE	CU YD. CONC
4'-4"	5'8" x 6'4" x 7 1/2"	21" & SMALLER	0.38 ±
5'-4"	6'8" x 6'4" x 7 1/2"	24" & 30"	0.51 ±
6'-4"	7'8" x 6'4" x 7 1/2"	36" & 42"	0.64 ±
7'-4"	8'8" x 6'4" x 7 1/2"	48" & 54"	0.77 ±
8'-4"	9'8" x 6'4" x 7 1/2"	60" & 66"	0.90 ±



SECTION B-B



SECTION D-D



SECTION C-C

~~REVISED 11-30-1988~~

~~REVISED 12-21-1989~~

Revised 2-16-1989

DETAIL STANDARD TYPE IA CURB INLET

CITY OF WICHITA, KANSAS

INLET OPENING = 6" x 5'0"

JUNE 1984

8/8

18-3-5-2