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

STORM WATER SEWER NO. 283

OAK CLIFF ESTATES 3RD ADDITION

CITY OF WICHITA PROJECT NO. 468-76-245-81445-000-000-001

INDEX OF SHEETS

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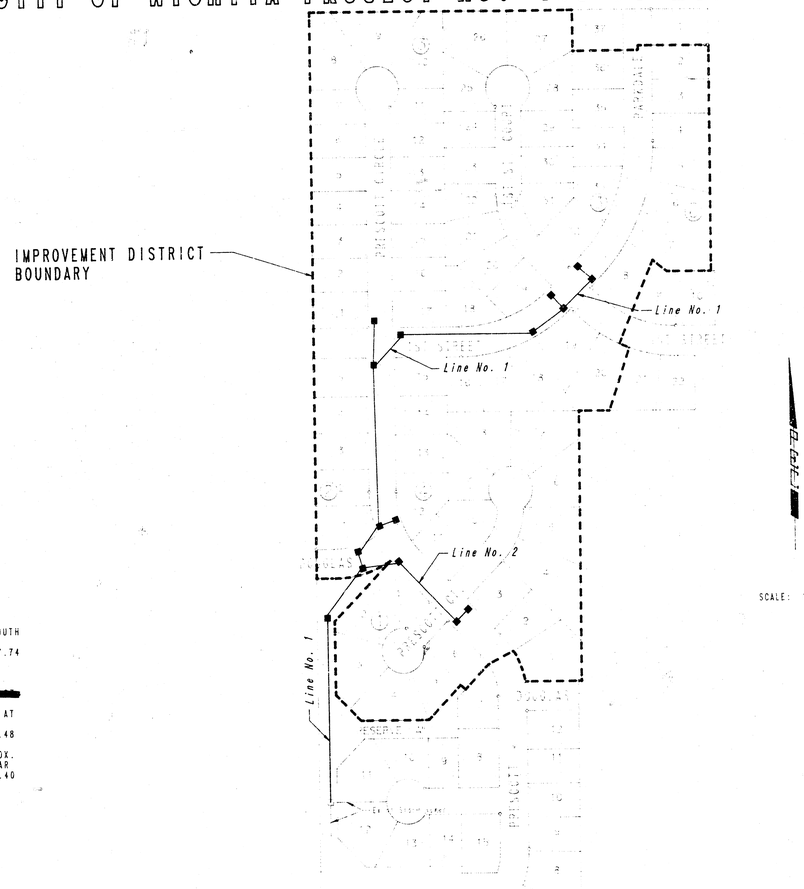

SCALE: 1" = 150'

GENERAL NOTES

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. 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.

THE CONTRACTOR SHALL FERTILIZE, SEED AND MULCH ALL AREAS WITHIN BLOCK "A" AND THE UTILITY EASEMENT ALONG REAR OF LOTS 1, 2, 3 AND 4, BLOCK "A" DISTURBED BY HIS CONSTRUCTION OPERATIONS AS DIRECTED BY THE ENGINEER. THIS WORK SHALL BE PAID FOR AT THE UNIT PRICE BID FOR "FERTILIZING AND SEEDING" AND "MULCHING". SAID PRICE SHALL BE CONSIDERED FULL COMPENSATION FOR ALL MATERIALS, LABOR, TOOLS, EQUIPMENT, AND INCIDENTALS NECESSARY TO COMPLETE THE WORK IN ACCORDANCE WITH C.S.W. STANDARD SPECIFICATIONS. THE APPROXIMATE QUANTITY FOR THIS WORK IS 2 ACRE.

PROJECT SURVEY CONTROL

VERTICAL DATUM:	CITY OF WICHITA DATUM
DATUM BENCH MARK:	CHISELED "O" TOP CURB WEST SIDE PARKDALE AT SOUTH CURB RETURN OF DOUGLAS. ELEV.=147.74
BENCH MARK:	[redacted]
BENCH MARK:	CHISELED "O" TOP CURB E.T. SOUTH SIDE DOUGLAS AT HOUSE NO. 11203 (NEAR MAILBOX). ELEV.=148.48
BENCH MARK:	3 60-d NAILS IN SOUTH FACE 8" HACKBERRY, APPROX. " ABOVE GROUND, ALONG WEST PROPERTY LINE, NEAR LOT 4, BLOCK 2. ELEV.=152.40

EARTHWORK

EXCAVATION

X-SECTIONS	201 CU. YDS.
10%	20 CU. YDS.
TOTAL	221 CU. YDS.

COMPACTED FILL

X-SECTIONS	877 CU. YDS.
10%	88 CU. YDS.
TOTAL	966 CU. YDS.

As Builts
12/87
MCG

MAY, 1987

PLANS PREPARED BY
PROFESSIONAL ENGINEERING CONSULTANTS, P.A.
ENGINEERS
WICHITA, KANSAS

CHARLES S. BROWN LICENSED 7581 KANSAS PROFESSIONAL ENGINEER

1/14

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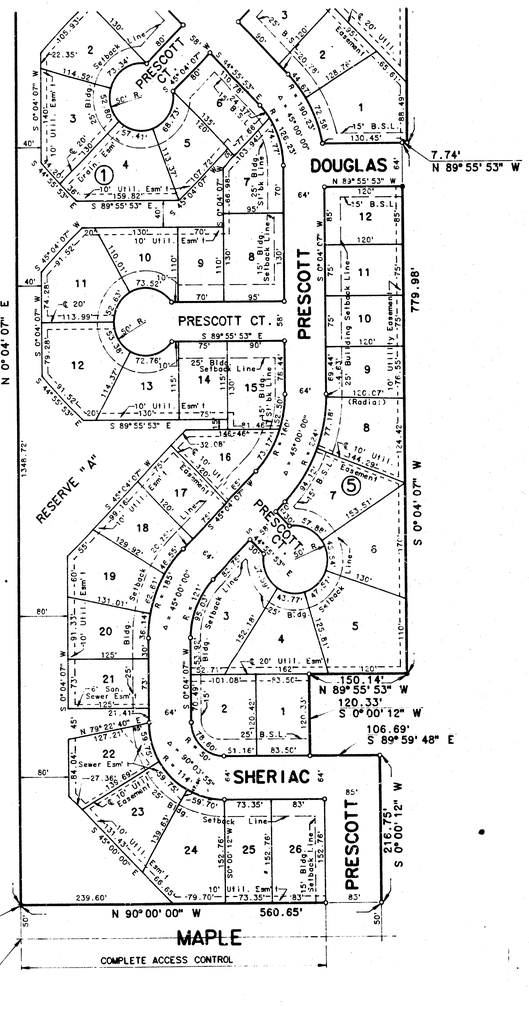
M-1 7-22A

OAK CLIFF ESTATES 3RD ADDITION

TO WICHITA, SEDGWICK COUNTY, KANSAS



Scale: 1" = 100'

October 18, 1984

● = Iron Found

o = Iron to be Set

Bench Mark - Maize Road and Maple. City of Wichita bench mark disc, 43.5' south and 52.7' east of C/L both. El.=1333.20 City Datum 1320.60 M.S.L.

MINIMUM PAD ELEVATIONS: Minimum Pad Elevation for Lots 1 through 11, Block 9, shall be 1324.0 M.S.L. and for Lots 1 through 26, Block 1, shall be 1333.0 M.S.L.

State of Kansas
ss
County of Sedgwick

I, R.W. Linn, a Professional Engineer in aforesaid State and County, do hereby certify that on this 31st day of August, 1984, I have caused to be surveyed and platted "OAK CLIFF ESTATES 3RD ADDITION," to Wichita, Sedgwick County, Kansas, into lots, blocks, streets, and reserves, the same being a replat of part of Oak Cliff Estates, to Wichita, Sedgwick County, Kansas, and being more particularly described as: Beginning at a point on the west line and 50 feet north of the SW Corner of the SE 1/4 of Section 19, Township 27 South, Range 1 West of the 6th P.M.; thence bearing N 0°04'07" E along the west line of said SE 1/4 a distance of 2596.16 feet to the NW Corner of said SE 1/4; thence bearing S 89°45'19" E along the north line of said SE 1/4 a distance of 2153.51 feet; thence bearing S 0°10'34" W a distance of 238.83 feet; thence bearing S 89°44'17" E a distance of 328.78 feet; thence bearing S 57°29'34" E a distance of 127.91 feet to a point lying 50 feet west of the east line of said SE 1/4; thence bearing S 0°04'42" W parallel to and 50 feet west of the east line of said SE 1/4 a distance of 786.44 feet; thence bearing N 89°55'18" W a distance of 439.00 feet; thence bearing S 0°04'42" W parallel to the east line of said SE 1/4 a distance of 384.72 feet; thence bearing N 89°55'18" W a distance of 0.32 feet to the P.C. of a curve to the right; thence along said curve to the right having a radius of 495.00 feet, through a central angle of 50°00'00", with a chord bearing N 64°55'18" W, and an arc distance of 431.97 feet; thence bearing N 39°55'18" W a distance of 610.26 feet to the P.C. of a curve to the left; thence along said curve to the left having a radius of 396.00 feet, through a central angle of 4°27'09", with a chord bearing N 42°08'52" W, and an arc distance of 30.77 feet; thence bearing S 50°04'42" W a distance of 327.54 feet; thence bearing S 42°42'14" W a distance of 76.10 feet; thence bearing N 47°00'25" W a distance of 182.45 feet to a point on a curve to the left; thence along said curve to the left having a radius of 679.08 feet, through a central angle of 3°16'07", with a chord bearing S 41°21'33" W, and an arc distance of 37.74 feet; thence bearing N 54°29'52" W a distance of 25.00 feet to the P.C. of a curve to the left; thence along said curve to the left having a radius of 50.00 feet, through a central angle of 35°15'26", with a chord bearing N 72°07'35" W, and an arc distance of 30.77 feet; thence bearing N 0°14'41" E a distance of 95.84 feet; thence bearing N 89°45'19" W a distance of 217.79 feet; thence bearing S 0°14'41" W a distance of 593.67 feet; thence bearing N 89°55'53" W a distance of 7.74 feet; thence bearing S 0°04'07" W a distance of 779.98 feet; thence bearing N 89°55'53" W a distance of 150.14 feet; thence bearing S 0°00'12" W, a distance of 120.33 feet; thence bearing S 89°59'48" E a distance of 106.69 feet; thence bearing S 0°00'12" W a distance of 216.75 feet to a point lying 50 feet north of the south line of the SE 1/4 of said Section 19; thence bearing N 90°00'00" W parallel to and 50.00 feet north of the south line of said SE 1/4 a distance of 560.65 feet to the point of beginning.

R.W. Linn, P.E. No. 3684

Know all men by these presents that we, the undersigned property owners of the land as above set forth in the Engineer's certificate, have caused the land to be surveyed and platted into lots, blocks, streets, and reserves, the same to be known as "OAK CLIFF ESTATES 3RD ADDITION," to Wichita, Sedgwick County, Kansas. Easements, as indicated, for the construction and maintenance of public utilities, streets, and drainage purposes, are hereby granted. The streets are hereby dedicated to and for the use of the public. Reserves A, B, D, E, F, G, H, I, and J, as indicated, shall be reserved for drainage, utilities, landscaping, private access, and recreational facilities. Reserves B and I shall also be reserved for emergency access. Reserve C shall be reserved for a privacy wall or fence, all in accordance with the restrictive covenants established by the Declaration of Landowners Association Agreement, and shall be owned and maintained by the Oak Cliff Estates Homeowners' Association. All abutters' rights of access to and from Maize Road, Karren, and Maple Street are hereby granted to the City of Wichita. All portions of Oak Cliff Estates contained within the above described tract are hereby vacated and replatted by virtue of K.S.A. 12-512(b) amended. Minimum Pad Elevations shall be required as shown. For building setback lines affecting Blocks 7, 8, 9, 10, 11 and 12, see C.U.P. DP-139.

Inland Investment Co., Inc.

Larry A. Chambers, President

Slawson Investment Corporation

Larry A. Chambers, Vice-President

State of Kansas
ss
County of Sedgwick

Be it remembered that on this ____ day of ____, 1984, before me, a Notary Public in aforesaid State and county, came Larry A. Chambers, President of Inland Investment Co., Inc., to me personally known to be the same person who executed the foregoing instrument of writing an duly acknowledge the execution of same for and on behalf and as the voluntary act and deed of said company, in testimony whereof I have hereunto set my hand and affixed my Notarial Seal the day and year above written.

Notary Public

My Appointment Expires: ____

We, the Mellon Bank, N.A., Pittsburg, Pa., holder of a mortgage on the above described property, do hereby consent to the platting of Oak Cliff Estates 3rd Addition to Wichita, Sedgwick County, Kansas.

State of Kansas
ss
County of Sedgwick

Be it remembered that on this ____ day of ____, 1984, before me, a Notary Public in aforesaid State and County, came ____ of the Mellon Bank, N.A., to me personally known to be the same person who executed the foregoing instrument of writing and duly acknowledge the execution of same for and on behalf and as the voluntary act and deed of said bank, in testimony whereof I have hereunto set my hand and affixed my Notarial Seal the day and year above written.

Notary Public

My Appointment Expires: ____

We, the American Savings Association of Kansas, holder of a mortgage on the above described property, do hereby consent to the platting of Oak Cliff Estates 3rd Addition to Wichita, Sedgwick County, Kansas.

Sam S. Strong

State of Kansas
ss
County of Sedgwick

Be it remembered that on this ____ day of ____, 1984, before me, a Notary Public in aforesaid State and County, came ____ of the American Savings Association of Kansas, to me personally known to be the same person who executed the foregoing instrument of writing and duly acknowledge the execution of same for and on behalf and as the voluntary act and deed of said association, in testimony whereof I have hereunto set my hand and affixed my Notarial Seal the day and year above written.

Notary Public

My Appointment Expires: ____

State of Kansas
ss
County of Sedgwick

Be it remembered that on this 1st day of November, 1984, before me, a Notary Public in aforesaid State and county, came Larry A. Chambers, Vice-President of Slawson Investment Corporation, to me personally known to be the same person who executed the foregoing instrument of writing an duly acknowledge the execution of same for and on behalf and as the voluntary act and deed of said company, in testimony whereof I have hereunto set my hand and affixed my Notarial Seal the day and year above written.

Notary Public

My Appointment Expires: ____

This plat has been submitted to and approved by the Wichita-Sedgwick County Metropolitan Area Planning Commission, Wichita, Kansas.

Dated this 6th day of September, 1984.

James C. Wilson, Chairman

Robert A. Lakin, Secretary

This plat approved and all dedications shown hereon are accepted by the City Commission of the City of Wichita, Kansas.

Dated this 18th day of Dec, 1984.

Robert J. Knight, Mayor

Donald C. Gisick, City Clerk

This is to certify that this instrument was filed for record in the Register of Deeds Office at ____ o'clock ____ m. on this ____ day of ____, 1984.

Pat Kettler, Register of Deeds

Ed Reso, Deputy

This plat approved and all dedications shown hereon are accepted by the Board of County Commissioners of Sedgwick County, Kansas.

Dated this 5th day of February, 1985.

Donald E. Gragg, Chairman

Bernard A. Hentzen, Commissioner

Tom Scott, Commissioner

Attest: Don Wright, County Clerk

Entered on Transfer Record this 12th day of February, 1985

Don Wright, County Clerk

Project No. 468 76 285 81445000 000 001

Sheet 1 of 2 Sheet No. 2 of 14

Retd: Grant Deed 2/13/85 Protective Covenant & Mtg Bk 449 Pg 445 Vacation Order 2/21/85 Bk 91

M-1 7-22A

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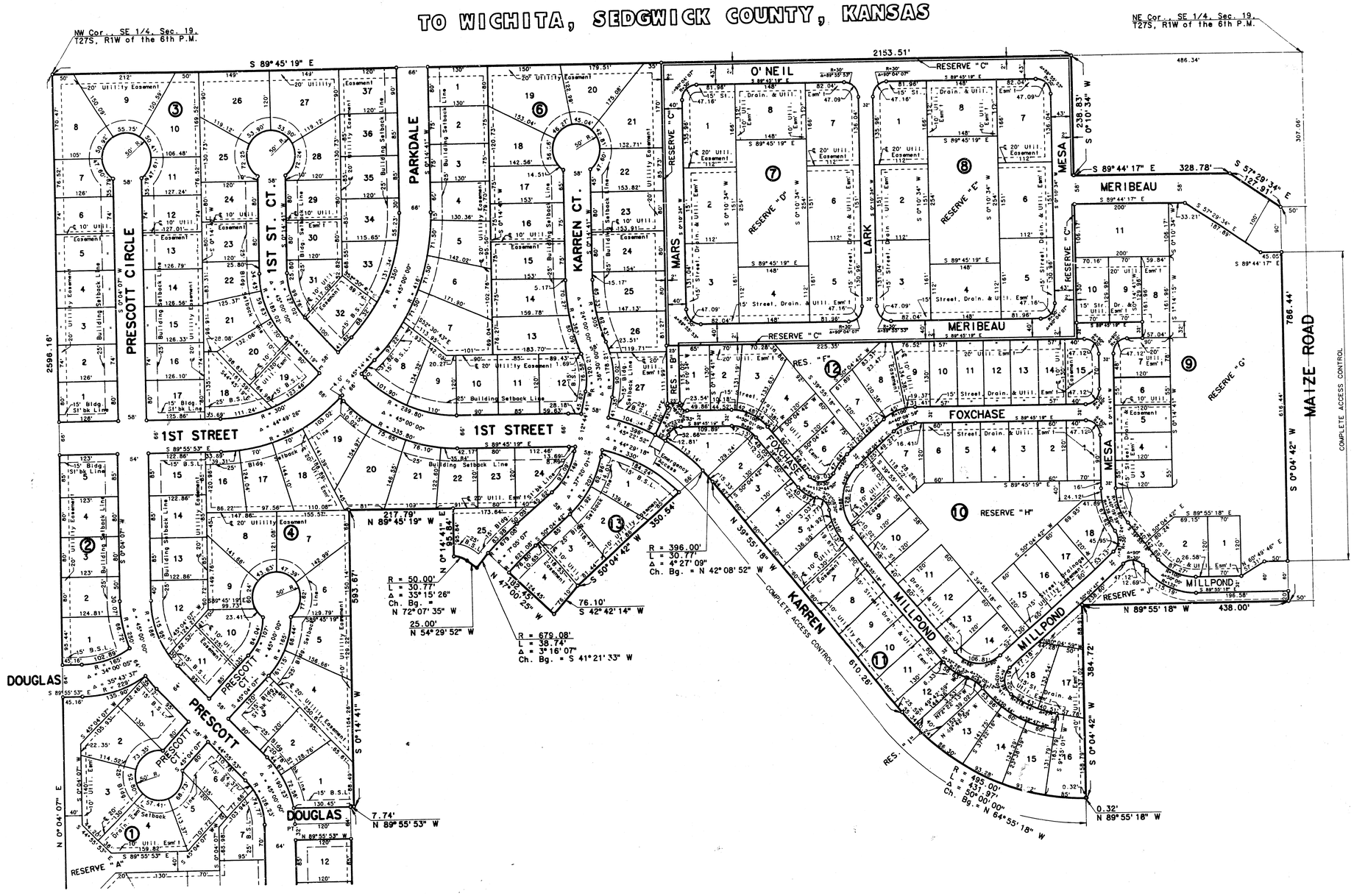
M-1 7-22

OAK CLIFF ESTATES 3RD ADDITION

TO WICHITA, SEDGWICK COUNTY, KANSAS

NW Cor., SE 1/4, Sec. 19, T27S, R1W of the 6th P.M.

NE Cor., SE 1/4, Sec. 19, T27S, R1W of the 6th P.M.



Sheet 2 of 2

Project No. 468 76 285 81925 000 000 001

Sheet No. 3 of 14

M-1 7-22B

M-1 7-22B

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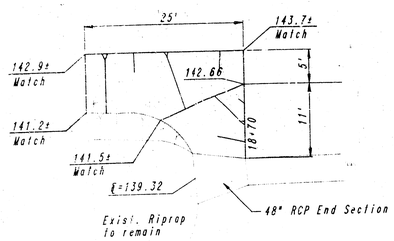
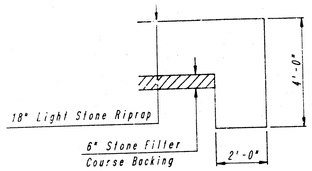


PLAN
SCALE: 1" = 10'

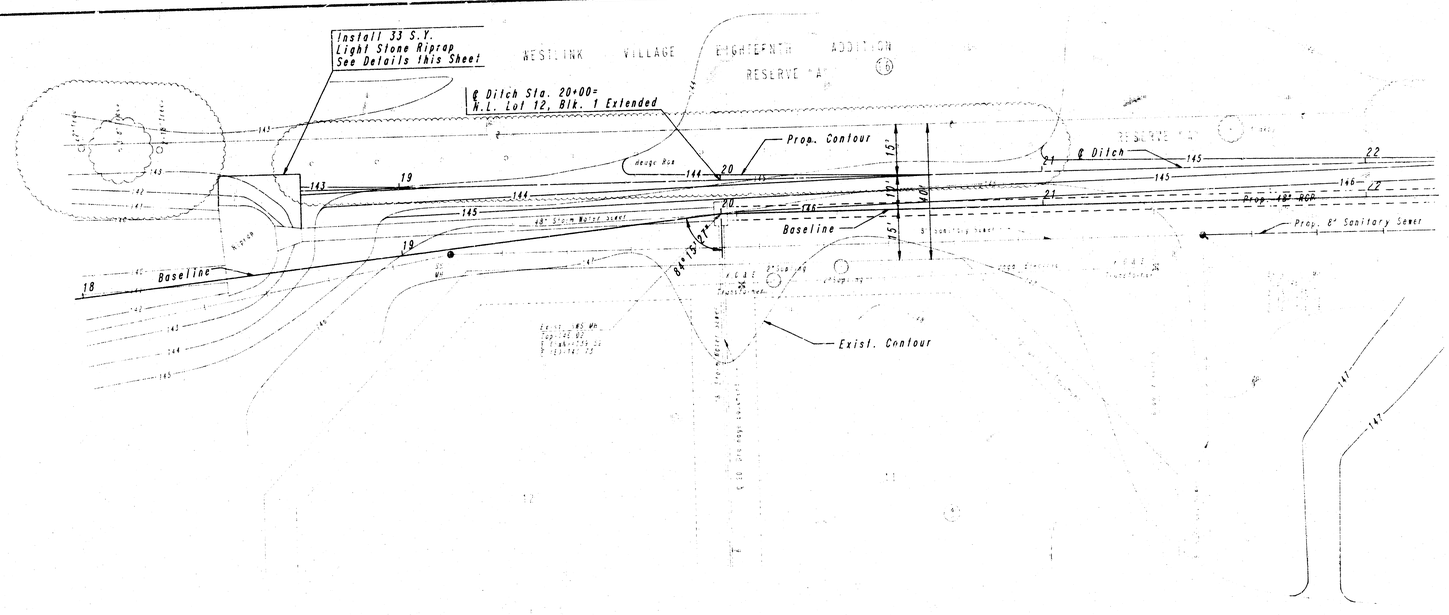


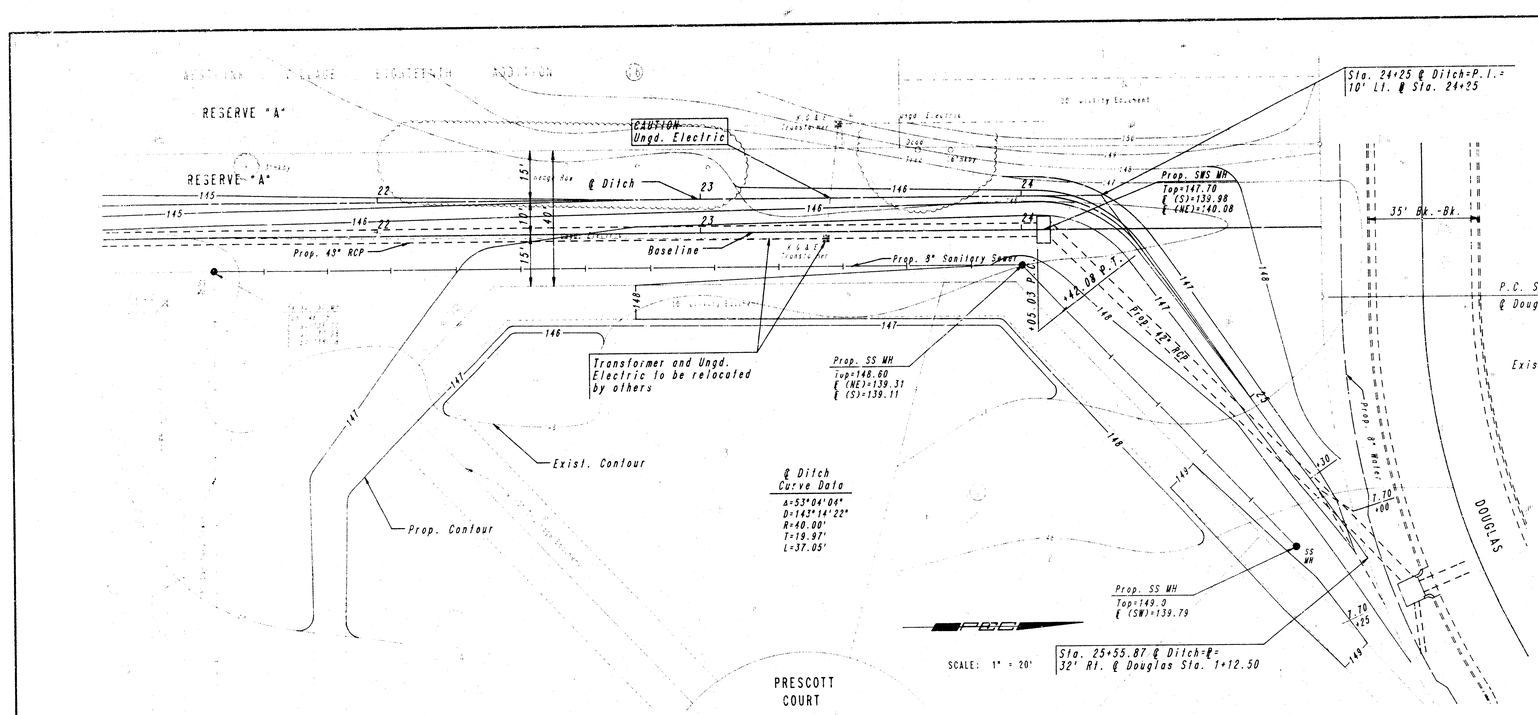
TYPICAL SECTION THRU TOEWALL

RIPRAP DETAILS

NOTES: ALL RIPRAP FOR THIS PROJECT SHALL BE NATURAL STONE. GROUTING OF RIPRAP SHALL NOT BE PERFORMED. NEITHER THE BROKEN CONCRETE, THE FABRIC ENVELOPE, NOR THE PRE-MIXED DRY PACKAGED CONCRETE BAG ALTERNATES WILL BE ALLOWED.

TOEWALLS SHALL BE INSTALLED ALONG ALL UNPROTECTED EDGES OF STONE RIPRAP.

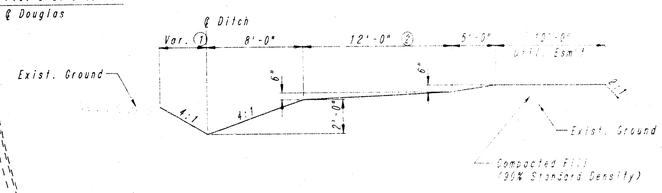

Install 33 S.Y.
Light Stone Riprap
See Details this Sheet
WESTLINK VILLAGE EIGHTEENTH ADDITION
RESERVE "A"
℄ Ditch Sta. 20+00=
N.E. Lot 12, Blk. 1 Extended
Prop. Contour
Design Pool
℄ Ditch
Prop. 48" RCP
Prop. 8" Sanitary Sewer
48" Storm Water Sewer
Baseline
Baseline
Exist. Contour
Exist. 48" RCP
Exist. 42" RCP
Exist. 24" RCP
Exist. 18" RCP
Exist. 8" Sanitary Sewer
Exist. 12" Water Line
Exist. 6" Water Line
Exist. 8" Water Line
Exist. 6" Gas Line
Exist. 8" Gas Line
Exist. 12" Gas Line
Exist. 16" Gas Line
Exist. 4" Gas Line
Exist. 2" Gas Line
Exist. 1" Gas Line
Exist. 3" Gas Line
Exist. 4" Gas



NOTE: SEE SHEET NO. 6 FOR PROPOSED STORM WATER SEWER IMPROVEMENTS



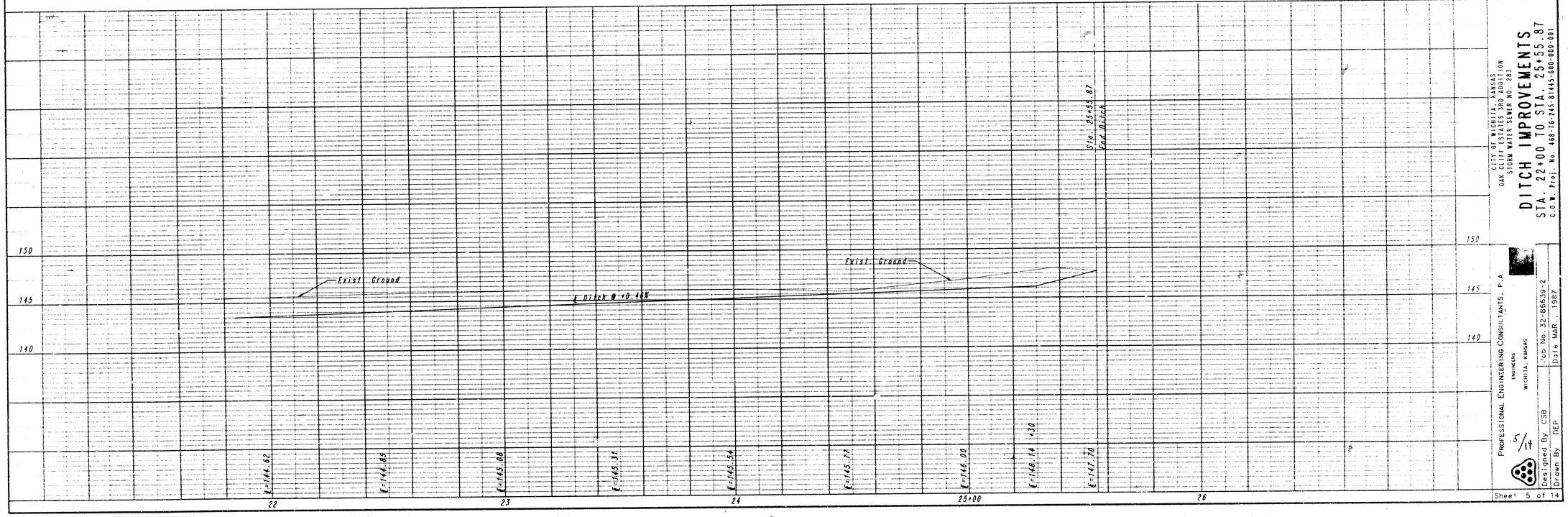
TYPICAL DITCH SECTION
Sta. 18+70 to Sta. 21+50±



TYPICAL DITCH SECTION
Sta. 21+50± to Sta. 25+30±

① See contours and cross sections

② Varies from Sta. 23+98 to Sta. 25+30



CITY OF WICHITA, KANSAS
OAK CLIFF ESTATES 3rd ADDITION
STORM WATER SEWER D.D. No. 283

DITCH IMPROVEMENTS
STA. 22+00 TO STA. 25+55.87

C.O.W. Proj. No. 468-76-245-81445-000-001

PROFESSIONAL ENGINEERING CONSULTANTS, P.A.
ENGINEERS
WICHITA, KANSAS

Job No. 32-86639-2
Date MAR. 1987
Designed By CSB
Drawn By DEP
Sheet 5 of 14

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RESERVE "A"

Line No. 1

Transformer and Underground Electric to be relocated by others

Prop. 8" Sanitary Sewer

SS MH
Top Elev.=146.15
℄ In (N)=138.11
℄ In (E)=138.18
℄ Out (S)=137.98

Line No. 1 Sta. 20+05.5
Begin Storm Water Sewer
Connect to Existing 48" RCP Stub
Install 401.6 L.F. 48" RCP (N)

CAUTION
Underground Electric
Contact K, G & E

SS MH
Top Elev.=148.60
℄ In (NE)=139.31
℄ Out (S)=139.11

Line No. 1 Sta. 24+07.1
Construct Reinforced Conc. Manhole
(L=4'-6", W=8'0", H=7'-0", Stack=1.47')
Top Elev.=~~147.70~~ 147.61'
Install 155.1 L.F. 42" RCP (NE)
See Sheet No. 11

SS MH
Top Elev.=149.00
℄ Out (S)=139.79

Line No. 1 Sta. 25+62.2=
Line No. 2 Sta. 0+00
(℄ Douglas Sta. 1+25.00)
Construct Std. Type 1A Curb Inlet
(L=6'-4", W=7'-4")
Top Elev.=~~147.88~~ 147.51
Install 44.3 L.F. 42" RCP (NW)
Install 57.1 L.F. 18" RCP (E)
See Sheet No. 7, 9 & 10

35' Bk.-Bk.
32' 32'

Sta. 0+60.50 ℄ Douglas
& Line 2 Bk. of 11' Int.

Sta. 0+45.16
P.C.

℄ Douglas
Curve Data
Delta=12°
D=2°00'00"
R=286.50'
T=30.16'
L=59.97'
E=1.32'

DOUGLAS

Prop. 8" Water

Line No. 1

Sta. 1+44.45 ℄ Douglas=
Sta. 24+67.56 ℄ Prescott

Sta. 1+47.45
P.T. ℄

Line No. 2

(Radial to Prescott)

35' Bk.-Bk.

PRESCOTT

PRESCOTT COURT

SCALE: 1" = 20'

PRESCOTT COURT

Existing Ground

Sta. 20+00
Connect Exist. Manhole

401.6 L.F. 48" RCP
@ -0.11%

Sta. 24+07.1 Construct
Reinforced Concrete Manhole
Top Elev.=~~147.70~~ 147.61
~~139.96~~ 139.81
~~139.96~~ 139.81
~~139.96~~ 139.81

Existing Ground

152.0 L.F.
~~155.1~~ L.F. 42" RCP
@ -0.22%

As Builts
12/87
MCB

Prop. 8" Water
Top of Pipe=139.70

Sta. 25+62.2 Construct
Standard Type 1A Curb Inlet
Top Elev.=~~147.88~~ 147.51

141.06
℄ In (SE)=142.08
Line No. 2

~~142.31~~ 142.06
~~142.31~~ 142.06
~~142.31~~ 142.06
~~140.36~~ 140.36

E=139.53
E=139.58
E=139.64
E=139.69
E=139.75
E=139.80
E=139.86
E=139.91
E=140.17
E=140.28
E=140.39

20+00 21 22 23 24 25+00

155 150 145 140 135

CITY OF WICHITA, KANSAS
OAK CLIFF ESTATES 3RD ADDITION
STORM WATER SEWER NO. 283

LINE NO. 1 IMPROVEMENTS
STA. 20+05.50 TO STA. 25+62.20

C.O.W. PROJ. NO. 468-76-245 & 445-000-001

PROFESSIONAL ENGINEERING CONSULTANTS, P.A.
ENGINEERS
WICHITA, KANSAS

Job No. 32-86039-2
Date APR., 1987
Designed By CSR
Drawn By DEP

6/14

Sheet 6 of 14

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SCALE: 1" = 20'

Line No. 1 Sta. 25+62.2=
Line No. 2 Sta. 0+00
(℄ Douglas Sta. 1+25.00)
Type 1A Curb Inlet
See Sheet No. 6, 9 & 10

Line No. 1 Sta. 26+06.5
(℄ Douglas Sta. 1+25.00)
Construct Std. Type 1A Curb Inlet
(L=6'-4", W=7'-4")
Top Elev.= ~~147.69~~ 147.65
Install 51.0 L.F. 42" RCP (NE)
See Sheet No. 10

Line No. 1 Sta. 26+57.5=
(℄ Prescott Sta. 25+03.46)
Construct Std. Type 1A Curb Inlet
(L=6'-4", W=6'-4")
Top Elev.= ~~148.97~~ 148.09
Install 359.5 L.F. 36" RCP (N)
Install ~~42.5 L.F.~~ 15" RCP (E) 43.4 LF
See Sheet No. 10

Line No. 1 Sta. 30+17.0
Line No. 4 Sta. 0+00
(℄ Prescott Sta. 28+56.73)
Construct Std. Type 1A Curb Inlet
(L=6'-4", W=8'-4")
Top Elev.= ~~149.69~~ 149.50
Install 101.8 L.F. 30" RCP (NE)
Install ~~104.1 L.F.~~ 15" RCP (E) 104.5 LF
See Sheet No. 10

℄ Prescott Circle
Sta. 29+69.73, 17.67' Lt.
Construct Std. Type 1A Curb Inlet
(L=6'-4", W=4'-4")
Top Elev.= ~~151.10~~ 150.03
US ℄= ~~144.50~~, DS ℄=143.75
See Sheet No. 10
144.38 143.0

℄ Prescott
Sta. 24+99.75, 20.67' Rt.
Construct Std. Type 1A Curb Inlet
(L=6'-4", W=4'-4")
Top Elev.= ~~148.07~~ 147.96
US ℄= ~~143.60~~, DS ℄= ~~143.00~~ 142.99
See Sheet No. 10
143.21

℄ Prescott
Curve Data
Δ=45°00'00"
D=26°16'57"
R=218.00'
T=90.30'
L=171.22'

Line No. 1 Sta. 31+18.3
(℄ 1st Street Sta. 12+33.30)
Construct Std. Type 1A Curb Inlet
(L=6'-4", W=5'-4")
Top Elev.= ~~149.60~~ 149.76
Install 307.7 L.F. 30" RCP (E)
See Sheet No. 9 & 10

Sta. 24+67.56 ℄ Prescott=
Sta. 1+94.45 ℄ Douglas

Sta. 29+08.73 ℄ Prescott=
Sta. 11+55.00 ℄ 1st Street

RESERVE 'A'
DOUGLAS
35' BK.-BK.
32'
32'
Line No. 1
Sta. 1447.43 P.T. ℄ (Radial to Prescott)
Line No. 2
Drainage Easement Film , Page
20' R. FCCK (TYP.)
Sta. 24+09.32 P.C.
35' BK.-BK.
Drainage Easement Film , Page
PRESCOTT
Sta. 25+80.73 P.T.
Line No. 1
35' BK.-BK.
32'
Prop. 12" Water
1ST STREET
Prop. 12" Water
90°00'00"
Future Pavement
PRESCOTT CIRCLE
30' R. FCCK (TYP.)
25' BK.-BK.
37' BK.-BK.
33'
33'

Existing Ground

℄ In (SE)=142.08
Line No. 2

℄ In (E)= ~~147.00~~ 142.99

℄ In (N)= ~~143.75~~ 143.0

46.4 LF.
~~44.3 L.F.~~ 42" RCP
@ +0.15%

50.7LF.
~~51.0 L.F.~~ 42" RCP
@ +0.13%

359.5
~~368.5 L.F.~~ 36" RCP
@ -0.20%

101.8 L.F. 30" RCP
@ +0.36%

Sta. 25+66.2
Standard Type 1A Curb Inlet

Sta. 26+06.5 Construct Standard Type 1A Curb Inlet
Top Elev. ~~147.69~~ 147.65

Sta. 26+57.5 Construct Standard Type 1A Curb Inlet
Top Elev. ~~148.97~~ 148.09

Sta. 30+17.0 Construct Standard Type 1A Curb Inlet
Top Elev. ~~149.69~~ 149.50

Prop. 12" Water
Top of Pipe=141.22

Sta. 31+18.8 Construct Standard Type 1A Curb Inlet
Top Elev. ~~149.60~~ 149.76

As Built 12-87 MDG

℄ Out= ~~140.12~~ 140.12
℄ In= ~~140.12~~ 140.12
MH 56

℄ Out= ~~140.50~~ 140.50
℄ In= ~~140.63~~ 140.63
MH 53

℄ Out= ~~140.76~~ 140.76
℄ In= ~~141.26~~ 141.26
MH 14

℄ Out= ~~141.85~~ 141.85
℄ In= ~~142.00~~ 142.00
MH 20

℄ Out= ~~142.85~~ 142.85
℄ In= ~~143.00~~ 142.91 & Flow
MH 37

E=141.35
E=141.45
E=141.55
E=141.65
E=141.75
E=141.85
E=141.95
E=142.60
E=142.78

150
145
140
26
27
28
29
30+00
31

CITY OF WICHITA, KANSAS
OAK CLIFF ESTATES 3RD ADDITION
STORM WATER SEWER NO. 282

LINE NO. 1 IMPROVEMENTS
STA. 25+62.20 TO STA. 31+18.80

C O W PROJ. NO. 468-76-245 81445-LTC-000 (01)

PROFESSIONAL ENGINEERING CONSULTANTS, P.A.
ENGINEERS
WICHITA, KANSAS

Designed By: CCB
Drawn By: DEP
Job No. 547-86039.2
Date: JAN. 1987

7/14

Sheet 7 of 12

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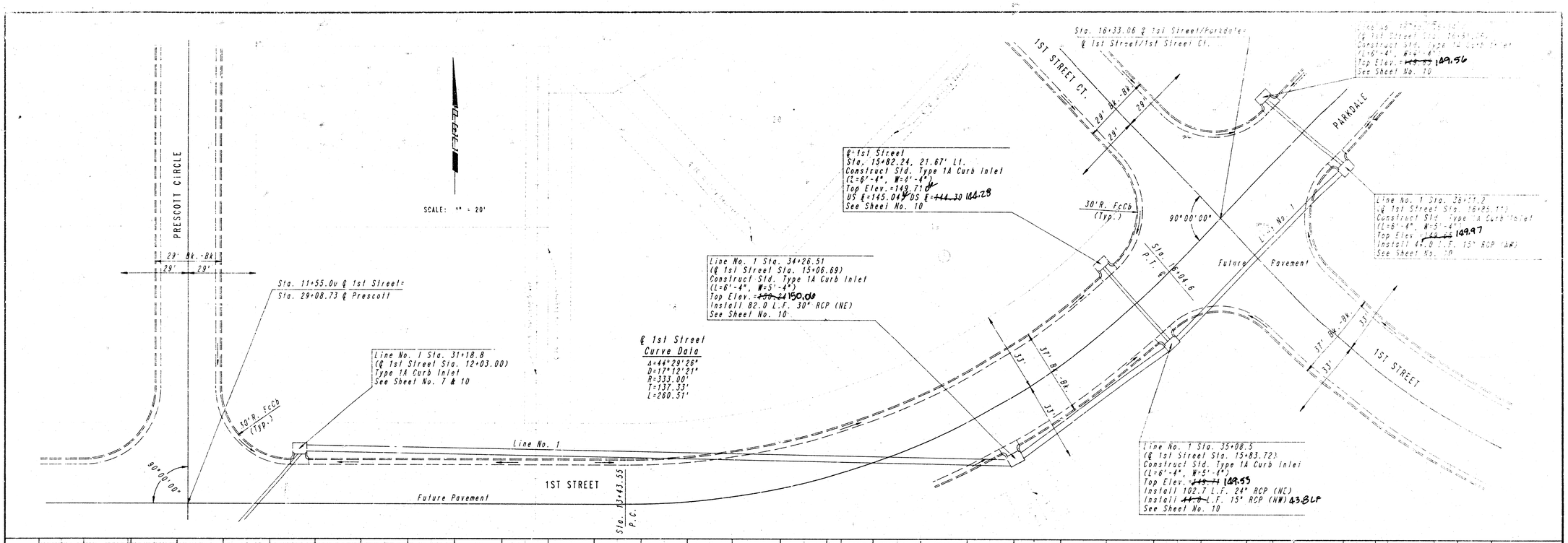

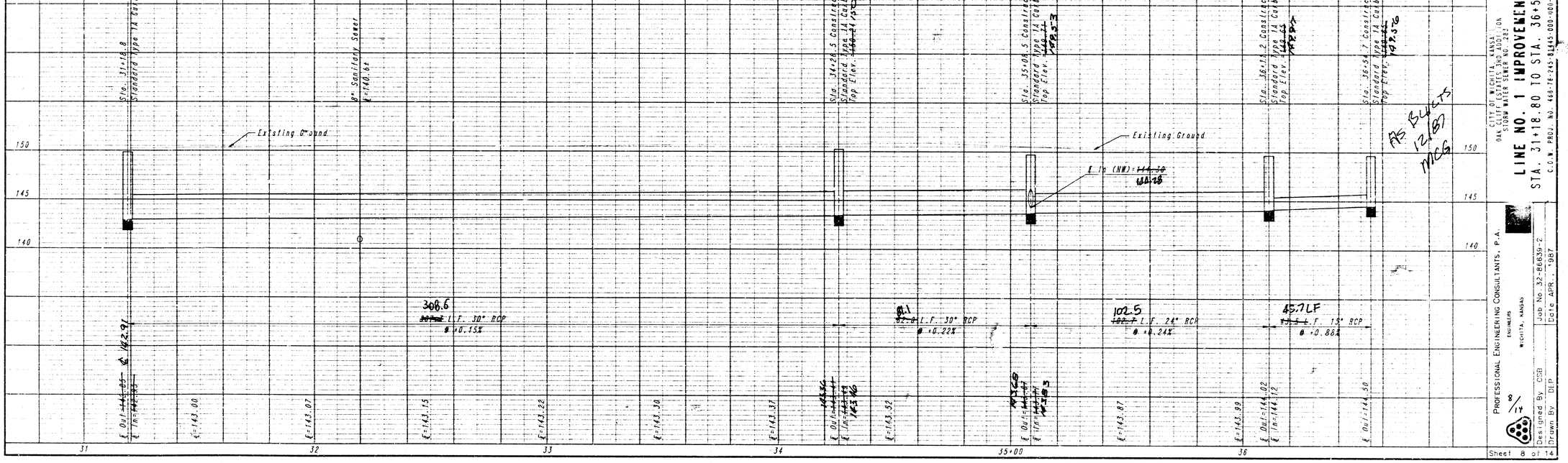

CITY OF WICHITA, KANSAS
STORM WATER SEWER NO. 282

LINE NO. 1 IMPROVEMENTS
STA. 31+18.80 TO STA. 36+54.70

C.O.W. PROJ. NO. 468-78243-81445-000-000-001

PROFESSIONAL ENGINEERING CONSULTANTS, P.A.
ENGINEERS
WICHITA, KANSAS

Designed By CSB
Drawn By DEP
Job No. 32-86636-2
Date APR., 1987

8/14

Sheet 8 of 14

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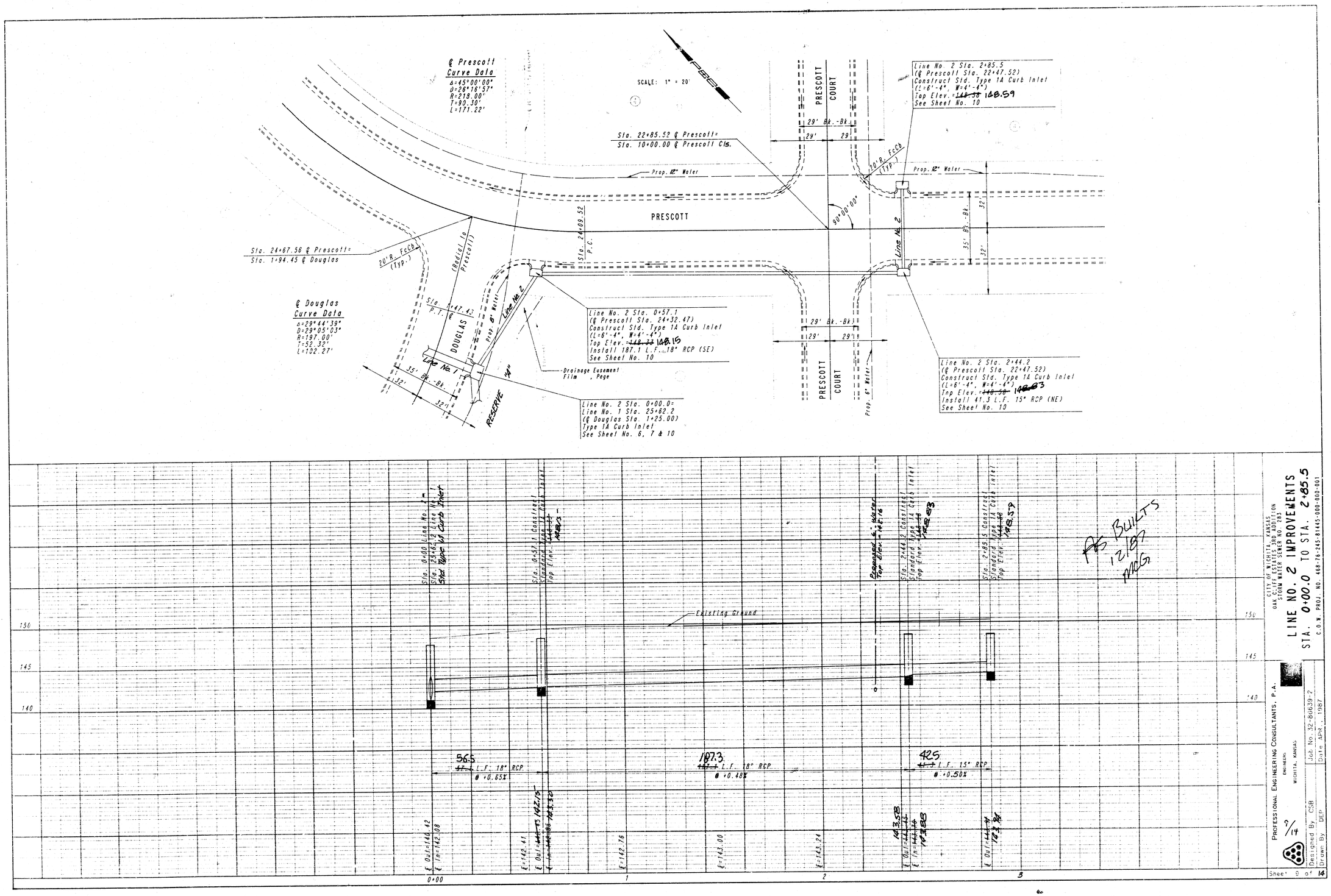

AS BUILTS
12/87
MCG

CITY OF WICHITA, KANSAS
OAK CLIFF ESTATES 3RD ADDITION
STORM WATER SEWER NO. 283

LINE NO. 2 IMPROVEMENTS
STA. 0+00.0 TO STA. 2+85.5

C.O.W. PROJ. NO. 468-76-245-81445-000-000-001

PROFESSIONAL ENGINEERING CONSULTANTS, P.A.
ENGINEERS
WICHITA, KANSAS

9/14

Designed By CSB
Drawn By DEP
Job No. 32-80639-2
Date APR., 1987

Sheet 9 of 14

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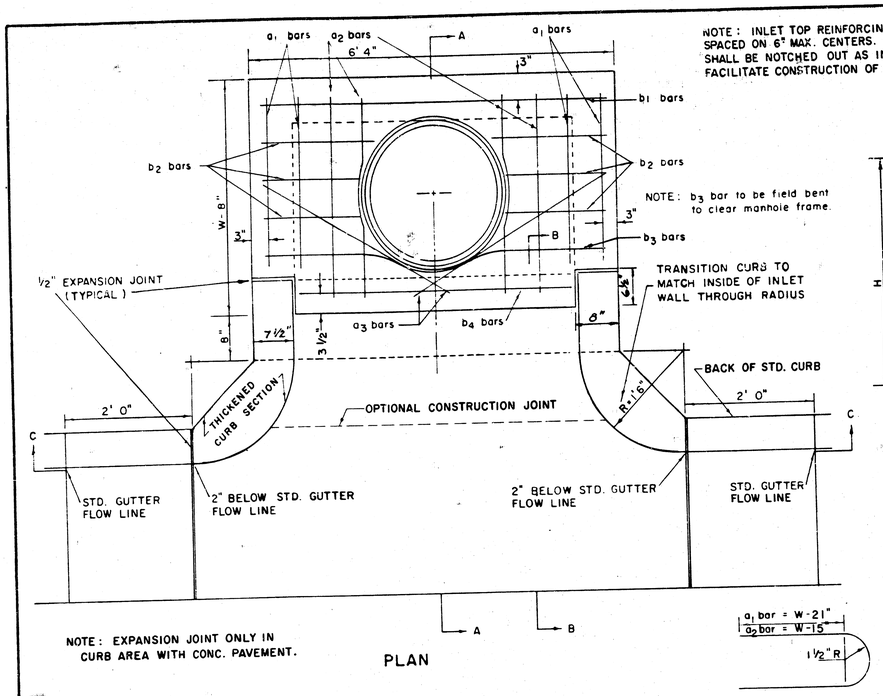


NOTE: EXPANSION JOINT ONLY IN CURB AREA WITH CONC. PAVEMENT.

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.

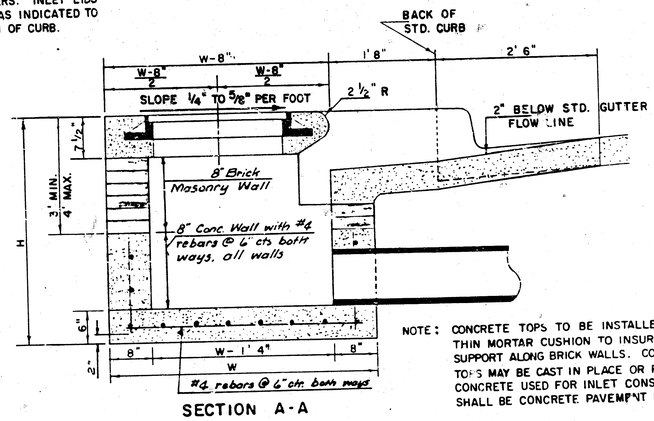
NOTE: b_3 bar to be field bent to clear manhole frame.

BENDING DIAGRAM

STEEL SCHEDULE

BAR		a_1	a_2	a_3*	b_1 W=4'4"	b_1 W=5'4"	b_1 W=6'4"	b_1 W=7'4"	b_1 W=8'4"	b_2	b_3	b_4	WT. LBS
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' 9"	6'2"	4'8"	141±

* NOTE: a_3 BARS TO BE PLACED APPROX. 2" BELOW TOP OF INLET COVER



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.

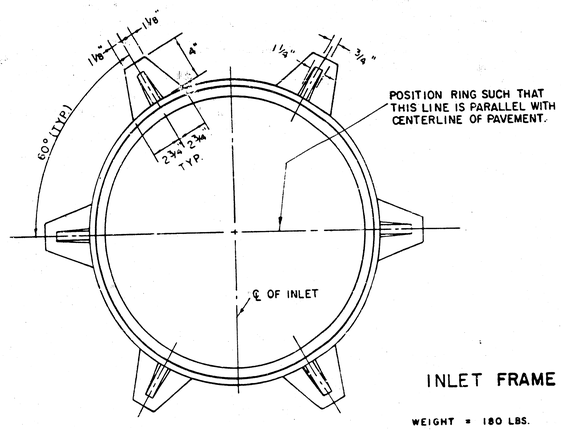
NOTE: CONTRACTOR SHALL HAVE THE OPTION OF CONSTRUCTING 8" BRICK MASONRY WALLS BETWEEN THE CONCRETE INLET BASE AND TOP ON THIS INLET WHEN W = 6'4" AND H = 7'0" OR LESS.

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.

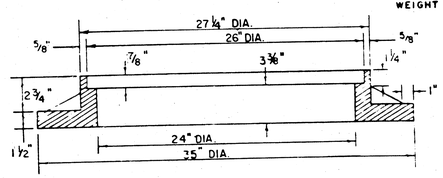
THE ENDS OF ALL PIPES INSTALLED IN INLETS SHALL BE CUT OFF FLUSH WITH THE INSIDE FACE OF THE INLET WALL.

STANDARD CURB INLET PRECAST TOPS			
W	PRE-CAST TOP SIZE	PIPE SIZE	CU. YD. CONC.
4' 4"	3'8"x 6'4" x7 1/2"	21" & SMALLER	0.38 ±
5' 4"	4'8"x 6'4" x7 1/2"	24" & 30"	0.51 ±
6' 4"	5'8"x 6'4" x7 1/2"	36" & 42"	0.64 ±
7' 4"	6'8"x 6'4" x7 1/2"	48" & 54"	0.77 ±
8' 4"	7'8"x 6'4" x7 1/2"	60" & 66"	0.90 ±

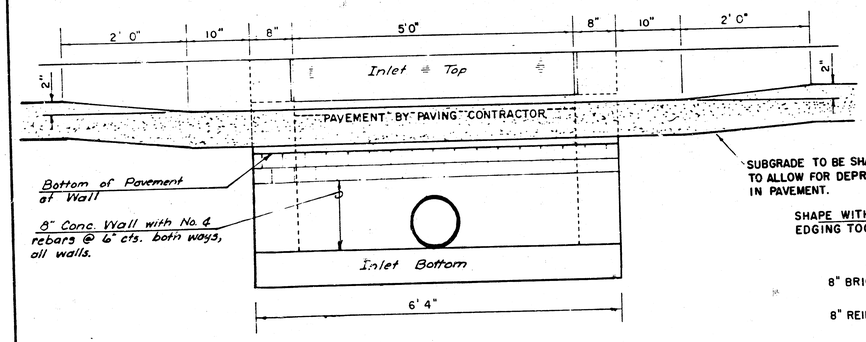


INLET FRAME

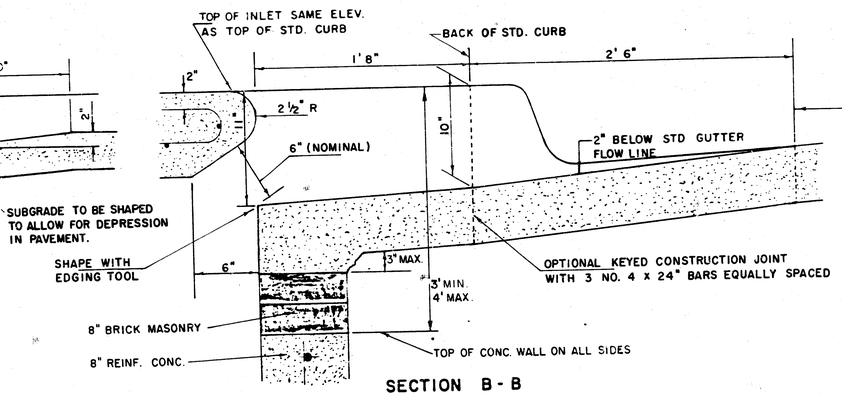
WEIGHT = 180 LBS.



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



SECTION C - C



SECTION B - B

REVISED 12-21-1984 Proj. No. 468762.45 81445 000 000 001

DETAIL STANDARD TYPE IA CURB INLET

CITY OF WICHITA, KANSAS

INLET OPENING = 6" × 5' 0"

10/19

JUNE 1984 Sheet No. 10 of 14

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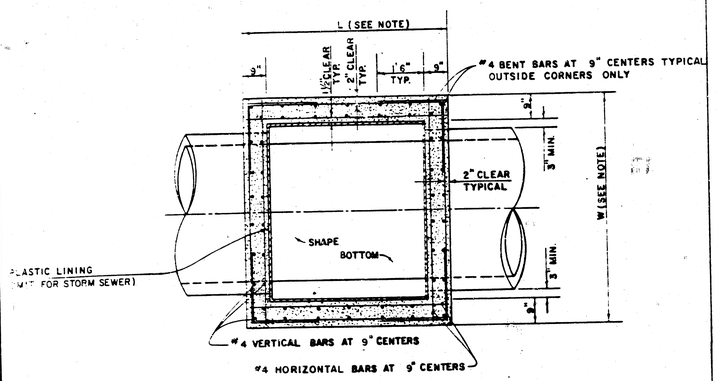
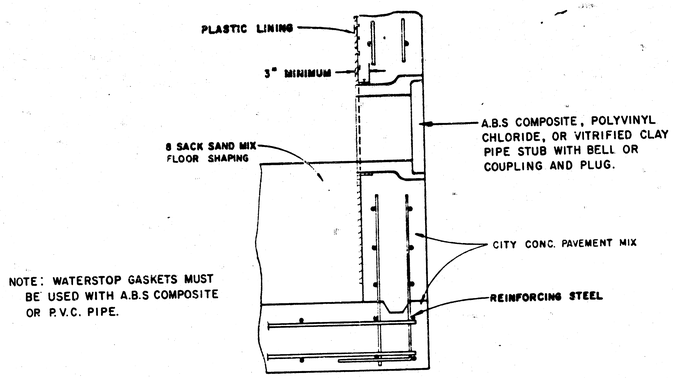
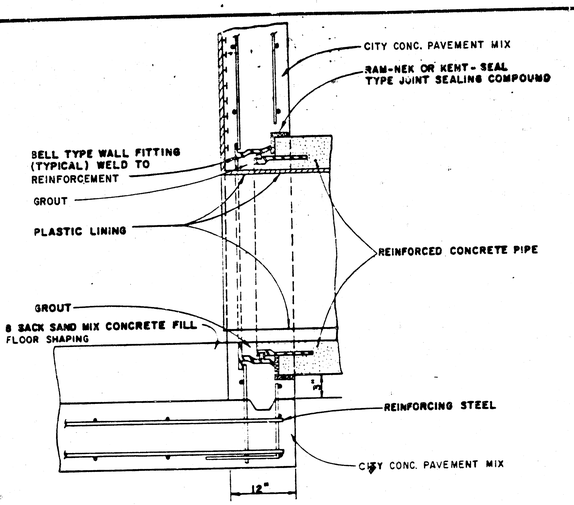


TOP VIEW

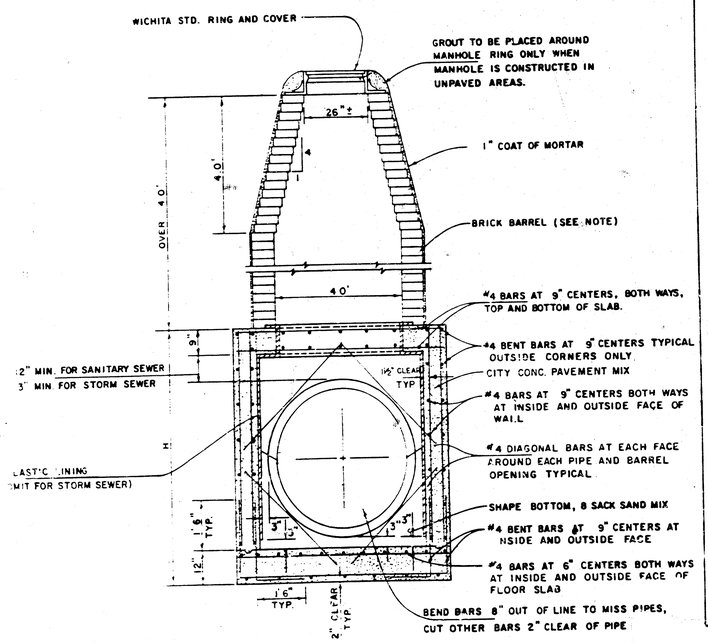


NOTE: WATERSTOP GASKETS MUST BE USED WITH A.B.S COMPOSITE OR P.V.C. PIPE.

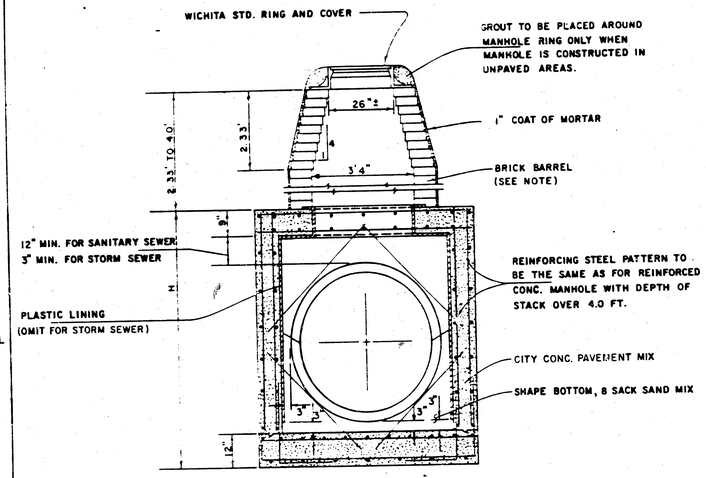
PIPE STUB DETAIL
SANITARY SEWER ONLY



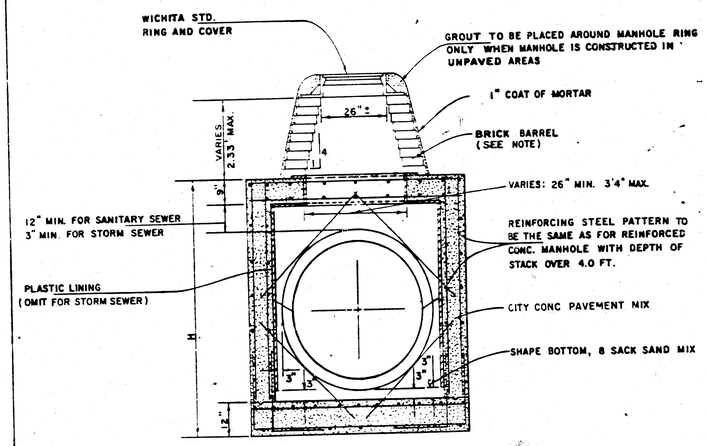
R.C.P. CONNECTION DETAIL
SANITARY SEWER ONLY



REINFORCED CONCRETE MANHOLE
DEPTH OF STACK: OVER 4.0'
SCALE 1" = 2'



REINFORCED CONCRETE MANHOLE
DEPTH OF STACK: 2.33' TO 4.0'
SCALE 1" = 2'



REINFORCED CONCRETE MANHOLE
DEPTH OF STACK: 0' TO 2.33'
SCALE 1" = 2'

NOTE:
BRICK BARRELS LESS THEN 16' DEEP SHALL HAVE 8" WALLS EXCEPT WHEN LOCATED WITHIN PUBLIC STREET OR ALLEY PAVEMENT THEN THE WALL SHALL BE 12" BRICK BARRELS MORE THEN 16' DEEP SHALL HAVE 12" WALLS. THE "L" AND "W" DIMENSIONS SHALL BE A MINIMUM OF 5'6" FOR BRICK BARRELS WITH 8" WALLS AND 6'2" FOR BRICK BARRELS WITH 12" WALLS WHEN THE BRICK BARRELS ARE OVER 4 FT. IN HEIGHT. COMLETED MANHOLE SHALL BE WITHOUT LEAKS AND WATERTIGHT.

REVISIED 1-7-85 Proj. No. 468 76 285 81445 000 000 001

STANDARD DETAILS
REINFORCED CONCRETE MANHOLES
CITY OF WICHITA
11/14

FEBRUARY 1984 - Sheet No. 11 of 14

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MANHOLE FRAME AND COVER DETAIL

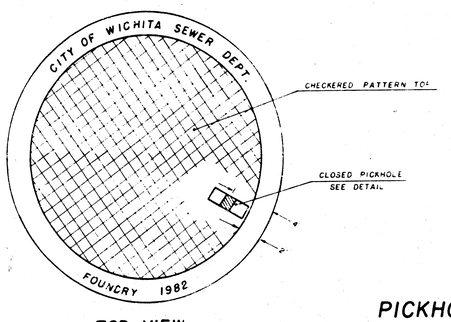
ADOPTED AS STANDARD DESIGN

BY

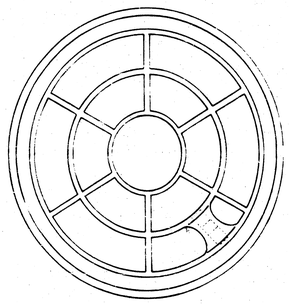
City of Wichita, Kansas

MANHOLE COVER

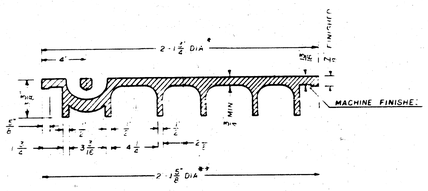
Weight: 180 Lbs.



TOP VIEW



BOTTOM VIEW

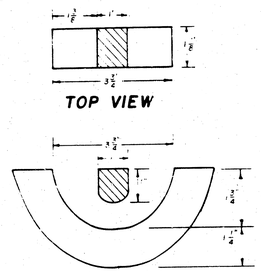


SECTION VIEW

* OUTSIDE DIA TOP OF COVER

** OUTSIDE DIA BOTTOM OF COVER

PICKHOLE DETAIL

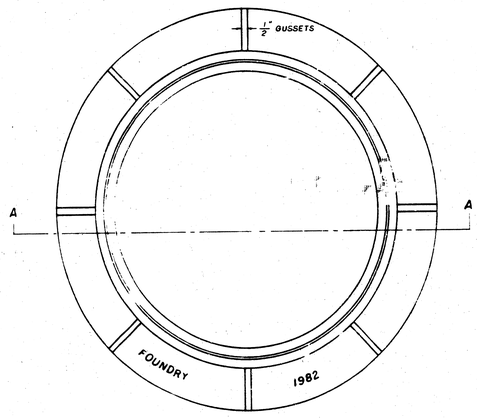


TOP VIEW

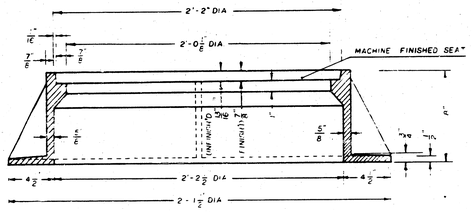
SECTION VIEW

MANHOLE FRAME

Weight: 240 Lbs.



TOP VIEW



SECTION A-A

GENERAL NOTES

1. MANHOLE CASTINGS SHALL BE MANUFACTURED USING GOOD QUALITY GRAY IRON CONFORMING TO CLASS 30 OF A.S.T.M. DESIGNATION A-48. DIMENSIONS AND WEIGHTS SHOWN ON THE DETAILED DRAWINGS SHALL BE CONSIDERED AS MINIMUM REQUIREMENTS AND ANY DEVIATIONS FROM THE DIMENSIONS SHOWN MUST BE SPECIFICALLY APPROVED. THE FINISHED CASTINGS SHALL BE OF UNIFORM QUALITY, FREE FROM BLOWHOLES, POROSITY, HARD SPOTS, SHRINKAGE DISTORTIONS OR OTHER DEFECTS.

2. MANHOLE CASTINGS SHALL BE COATED WITH AN ASPHALT PAINT RESULTING IN A SMOOTH, TOUGH AND TENACIOUS COATING WHICH IS NOT BRITTLE OR TACKY.

3. MANHOLE CASTINGS SHALL BE MANUFACTURED SUCH THAT A COVER MANUFACTURED BY ANY ONE FOUNDRY WILL FIT INTERCHANGEABLY INTO A FRAME MANUFACTURED BY ANOTHER FOUNDRY AND STILL MEET ALLOWABLE CLEARANCES AND NON-ROCKING REQUIREMENTS. THIS WILL REQUIRE MANUFACTURING OF THE MATCHING FACES ON THE COVER AND THE FRAME TO CLOSE TOLERANCES.

4. THE OUTSIDE CIRCUMFERENCE OF THE VERTICAL FACE OF THE COVER AND THE INSIDE CIRCUMFERENCE OF THE VERTICAL FACE IN THE FRAME RECESS SHALL BE MANUFACTURED TO TOLERANCES SUCH THAT THE CLEARANCE BETWEEN THE COVER AND FRAME WILL NOT EXCEED 1/8" AT ANY POINT AROUND THE CIRCUMFERENCE OF THE COVER. THE SEATING SURFACES BETWEEN THE COVER AND FRAME SHALL BE MACHINED SUCH THAT THESE SURFACES SHALL MAKE FULL CONTACT FOR THEIR FULL CIRCUMFERENCE TO PRECLUDE THE COVER FROM ROCKING IN THE FRAME.

5. THE MANHOLE FRAME AND COVER SHALL BE MARKED WITH LETTERING INDICATING THE NAME OF THE MANUFACTURER AND THE YEAR WHEN THE COVER OR FRAME WAS CAST. THE COVER SHALL BE FURTHER IDENTIFIED WITH REGARDS TO OWNERSHIP USING LETTERS AT LEAST 1" IN HEIGHT. THIS IDENTIFICATION SHALL BE "CITY OF WICHITA SEWER DEPARTMENT". THE WORD DEPARTMENT MAY BE ABBREVIATED. THE TEXTURE OF THE TOP SURFACE OF THE COVER SHALL BE MANUFACTURED IN A CHECKERED PATTERN DESIGN AS INDICATED ON THE DRAWINGS. SMOOTH BLOCKOUTS SHALL BE UTILIZED TO HIGHLIGHT THE LETTERING ON THE COVER SURFACE. THE TOTAL AREA OF SMOOTH SURFACE BLOCKOUT SHALL NOT EXCEED THE AREA AS INDICATED ON THE DRAWING. POSITIONING OF SMOOTH BLOCKOUTS AND LETTERING MAY VARY FROM THAT SHOWN ON THE DETAILED DRAWING.

DEC. 1981

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Oak Cliff 3rd
Storm Water Sewer No 283
Proj. No. 468 78 585 81445 000 000 000

Sheet 13 of 14

13/14

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50 40 30 20 10 0 10 20 30 40 50

145 20+00 140 — 4:1 4:1 — 143.70 C=8 — 145 20+00 140

50' Exc.=24.1 — 150 145 19+50 140 — 4:1 4:1 — 149.30 C=18 — 145 19+50 140

50' Exc.=40.7 — 150 145 19+00 140 — 4:1 4:1 — 142.90 C=26 — 145 19+00 140

50' Exc.=28.9 — 145 18+45 140 — 4:1 4:1 — 538 18+70 C=26 — 145 18+45 140

145 18+00 140 — E.C.=1650 C.F.=1407 C.F. — 145 18+00 140

TOTAL Exc.=2006 C.Y. C.F.=8775 C.Y.

50' Exc.=5.6 C.F.=92.6 — 150 145 22+00 150 — 4:1 4:1 — 144.62 C=3 — C.F.=52 — 145 22+00 150

50' Exc.=8.3 C.F.=48.1 — 150 145 21+50 150 — 4:1 4:1 — 144.99 C=6 — C.F.=0 — 145 21+50 150

50' Exc.=14.8 — 150 145 21+00 150 — 4:1 4:1 — 144.16 C=10 — 145 21+00 150

50' Exc.=22.2 — 150 145 20+50 150 — 4:1 4:1 — 143.93 C=14 — 145 20+50 150

50' Exc.=20.4 — 150 145 20+00 150

50 40 30 20 10 0=℄ 10 20 30 40 50

25+55.87
C=0 CF=0

St. R/W

25.87' Exc.=4.8 CF=9.6

150
25+30 ℄
145

4:1 4:1 2:1

146.14

C=10 CF=20

30' Exc.=8.3 CF=46.1

150
25+00 ℄
145

St. R/W

4:1 4:1 2:1

C=5 CF=63

57.92' Exc.=6.4 CF=198.4

℄

150
24+42.08 ℄
P.I.
145

4:1 4:1 2:1

C=1 CF=122

42.08' Exc.=2.3 CF=151.2

24+00

150
24+92.12
145

150
24+50
145

150
24+00
145

4:1 4:1 2:1

145.54
C=2 CF=72

50' Exc.=4.6 CF=125.0

150
23+50
145

4:1 4:1 2:1

145.31
C=3 CF=63

50' Exc.=4.6 CF=110.2

150
23+00
145

4:1 4:1 2:1

145.08
C=2 CF=56

50' Exc.=4.6 CF=96.3

150
22+50
145

4:1 4:1 2:1

144.85
C=3 CF=48

Exc.=35.6 C.Y.
CF=736.8 C.Y.

50 40 30 20 10 0=℄ 10 20 30 40 50

Oak Cliff 3rd
Storm Water Sewer No. 283
Proj. No. 468 76 245 81445 000 000000

Sheet 14 of 14

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