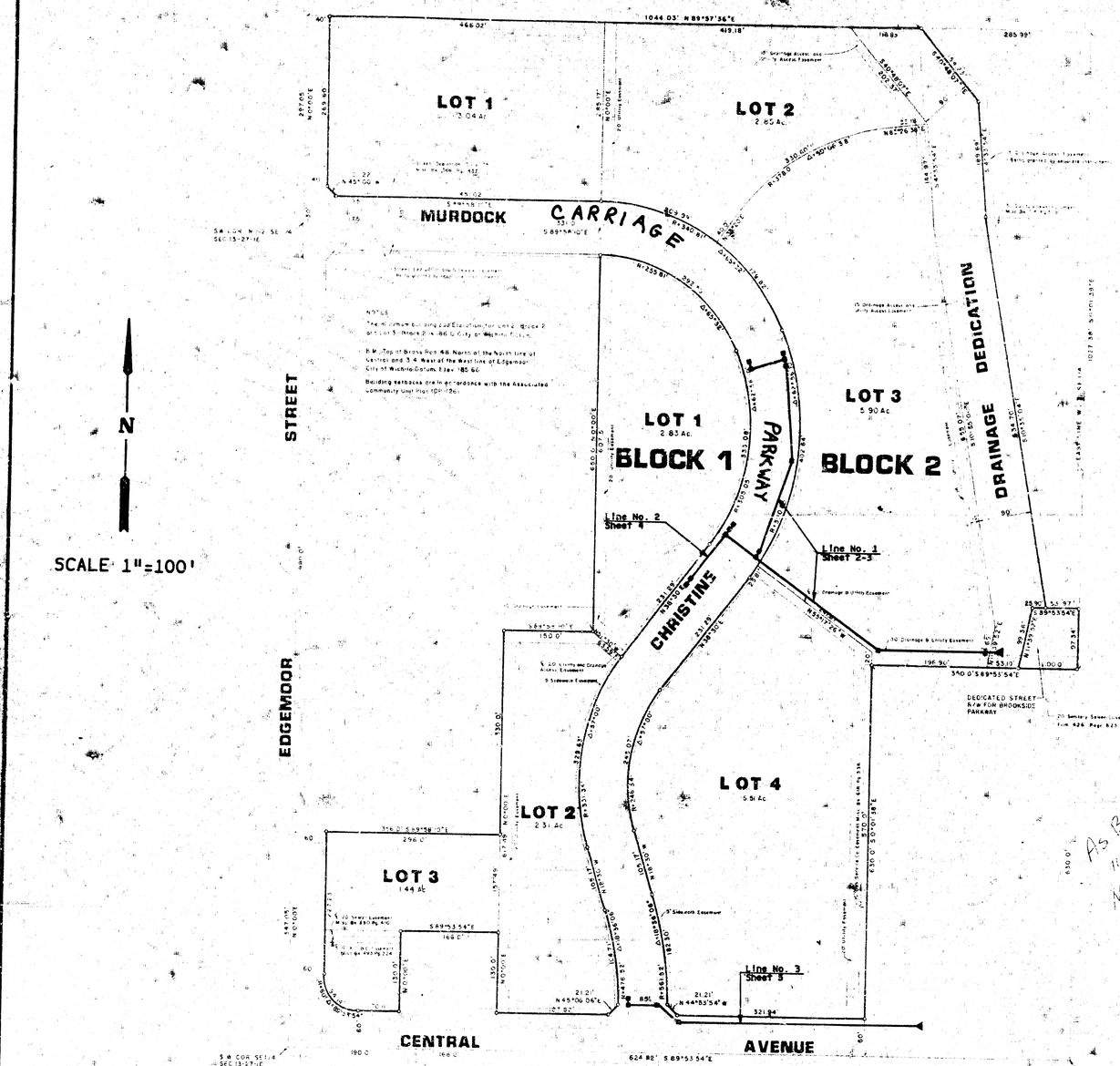


STORM WATER SEWER
CENTRAL AVENUE PLAZA

CITY OF WICHITA

M.E. LINDEBAK, CITY ENGINEER

PROJECT NO. 468-76-245-80000-000-000-008

DATE: AUGUST 1983

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RC MANHOLE----------SHEET 7
HEADWALL FOR 36" PIPE---SHEET 8
HEADWALL FOR 42" PIPE---SHEET 9

CITY OF WICHITA
APPROVED: Approval does not relieve the contractor from any responsibility for errors or omissions from the contract requirements or for any deficiencies of equipment, work, or materials.
Date 9/1/83
Engineering Dir. CJB

NOTE TO CONTRACTOR
This project will be constructed under the supervision of the City Engineer and conforms to the specifications of the City of Wichita. The Contractor will be responsible for all costs of inspection.

AS BUILTS
11/84
M.C. GREENE

GENERAL NOTES

1. Contractor shall coordinate work with Paving and Sanitary Contractors, and contact relevant Utility Companies and other Agencies involved with this project.
2. The tops of Inlets as not all on the plans may vary so as to meet proposed top of curb elevations. The field Engineer shall locate Inlets with reference to proposed Paving Plans of the pertinent streets.
3. All concrete shall be "STANDARD PAVING MIX" unless otherwise noted.
4. Erosion protection shall be type III Rip-Rap. Concrete Rip-Rap Bags or 8" Filter Point Revetment Mat. Quantities shown for these items are for the square yards of coverage and do not account for the toe wall required by the City of Wichita Standard Specifications.

KENNY E. HOLT LICENSED 7690 PROFESSIONAL ENGINEER KANSAS

THE CONTRACTOR WILL PROVIDE ALL CONSTRUCTION STAKING ON THIS PROJECT.

ALL EXCESS EXCAVATION FROM THE CONSTRUCTION OF THIS PROJECT SHALL BE STOCKPILED ON THE REAR OF LOT 3, BLOCK 2 AT THE DIRECTION OF THE OWNER

THE CONTRACTOR SHALL BE RESPONSIBLE FOR PRESERVING PROPERTY IRONS. THE CONTRACTOR SHALL BE REQUIRED TO REESTABLISH ANY PROPERTY IRONS WHICH ARE DAMAGED OR DESTROYED BY HIS CONSTRUCTION OPERATIONS. SUCH IRONS SHALL BE RE-ESTABLISHED BY A LICENCED LAND SURVEYOR OR A LICENCED PROFESSIONAL ENGINEER IN ACCORDANCE WITH STATE LAWS.

SHEET 1 OF 9

POE & ASSOCIATES OF KANSAS INC.
CONSULTING ENGINEERS

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INSTALL 20 SY EROSION PROTECTION

REMOVE HEADWALL AND PIPE TO TOE OF SLOPE AND INSTALL 24" RCP END SECTION

Drainage R/W

25.99'

25.39'

Exist 24" RCP

INSTALL 7 SY EROSION PROTECTION IN "V" SWALE 8' WIDE, 0.7' DEEP

196.90'

Garage

Iron

Iron

26.55'

26.55'

5.57'

28'

R. 174.5

11° 45' 58"

2'

5'

10.34'

20'

23'

N. LINE 30' Drainage & Utility Easement

STA. 0+00 ℄ DRAINAGE DEDICATION
CONSTR. HEADWALL FOR 36" PIPE

INSTALL 62 SY EROSION PROTECTION

STA. ~~2+13.2~~ 2+23.2, CONSTR. R.C. MANHOLE
L= 6'-2", W= 6'-2", TOP= ~~181.70~~ 181.16
Use 12" Brick Barrel

Proposed 8" Sanitary Sewer

GRADE SWALE INCIDENTAL TO PROJECT COST
(SEE TYPICAL SECTION THIS SHEET)

℄ 30' Drainage & Utility Easement
Radial to ℄ Christine Street at Sta.8+90.32

LOT 4

N

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

As Builts
11/6/84
MC GREGOR

LINE NO. 1

241.81'

3

4

5'

Existing Sanitary Sewer

8' ALLEY CURVE 2

90' Drainage Dedication

LOT 3

(2)

B.M. #1 Top of Brass Rod 48' North of the North line of Central and 3.4' West of the West line of Edgemoor City of Wichita Datum. Elev. 185.666

B.M. #2 "+" on bottom flange of fire hydrant, 26' West of ℄ Edgemoor, and 21' North of the ℄ Murdock. City of Wichita Datum. Elev. 201.81

25.81'

Iron

℄

P.C.

30.62'

36°35'58" R.

CHRISTINE

10'

25' F.F.

85' R/W

15'

25' F.F.

10'

STA. ~~4+47~~ 4+74.7, CONSTR. TYPE 1A ~~183.77~~ 183.88
CURB INLET, W= 6'-0", TOP=
U.S. R.= 177.52 D.S. R.= 177.43

LINE NO. 2

Iron

Proposed 12" A.C. Water Main

PLAN

SURVEYED
PLOTTED
GRADES CHECKED
ALIGNMENT CHECKED
R/L OF WAY CHECKED
NOTE BOOK NO.
STRUCTURE NOTATING CHKD
BY
DATE

PROFILE

SURVEYED
PLOTTED
GRADES CHECKED
NOTE BOOK NO.
STRUCTURE NOTATING CHKD
BY
DATE

TYPICAL SWALE SECTION

30'-0"

0.7'

STA. 0+00 ℄ DRAINAGE DEDICATION
CONSTR. HEADWALL FOR 36" PIPE
STA. 0+06 INSTALL 36" PIPE

STA. ~~2+13.2~~ 2+23.2
CONSTR. R.C. MANHOLE

CR.E. 175.77

R. SWALE 179.62

R. SWALE 180.72

EXISTING GROUND

R. SWALE 181.82

R. OF PROPOSED SWALE @ 1.10

R. SWALE 182.92

R. SWALE 183.6

STA. ~~4+47~~ 4+74.7
CURB INLET, W= 6'-0", TOP= ~~183.77~~ 183.88
CONSTR. TYPE 1A

CR.E. 177.35

185
180
175
170
165

0
1
2
3
4

217.2 L.F. OF 36" RCP

TOTAL (468.2 L.F. OF 36" RCP)
INSTALL 368 L.F. OF 36" R.C.P. @ 0.6 %

251.5 L.F. OF 36" RCP

Sanitary Sewer

STA. ~~1+74.50~~ 1+74.09
CR.E. 174.09

DITCH F.C.
D.S. R. 178.2

175.10

175.70

177.08

dp
POE & ASSOCIATES
CONSULTING ENGINEERS

S.W.S. NO. 249
LINE NO. 1

ENGINEER: K. HILL	ENG. TECH: J.W.
DRAWN BY:	SCALE: NOTED
DATE: AUG. 1983	SHEET 2 OF 9

2/9

FILMED FROM THE BEST

LOT 1

(1)

8+88 STA. ~~8+77~~, CONSTR. TYPE 1A CURB INLET, W= 4'-2", TOP= ~~185.97~~ 186.04
INSTALL 4 LF 15" RCP
USFL ~~182.00~~ USFL ~~181.90~~ 181.94

8+90 STA. ~~8+89~~, CONSTR. TYPE 1A CURB INLET, W= 4'-2", TOP= ~~185.66~~ 185.91

Iron

8'

15" RCP

15" RCP

Radial to ℄

Iron

8'

8'

24" RCP

CONSTR. TYPE 1A CURB INLET, W= 4'-2", TOP= ~~185.97~~ 186.07
INSTALL 4 LF 15" RCP
USFL ~~181.90~~ USFL 181.96

15" RCP

8+07.1 STA. ~~8+07~~ CONSTR. TYPE 1A CURB INLET, W= 5'-0", TOP= ~~185.98~~ 185.98

7+99.1 STA. ~~7+98~~, CONSTR. TYPE 1A CURB INLET, W= 5'-0", TOP= ~~185.83~~ 185.83

Iron

Proposed 12" A.C. Water Main

SEE SHEET 4

℄ CHRISTINE

10'
25 F.F.
15'
85' R/W
25 F.F.
10'

PC 30.68'

152.00'

347.55' R.

150.00'

Radial to ℄

Proposed 8" Sanitary Sewer

36" RCP Radial to ℄

24" RCP

24" RCP

Iron

LINE NO. 1

AS BUILTS
11/84
MC GREGENE

N

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

4+74.7 STA. ~~4+71~~, CONSTR. TYPE 1A CURB INLET, W= 6'-0", TOP= ~~183.77~~ 183.88

4+82.8 STA. ~~4+79~~, CONSTR. TYPE 1A CURB INLET, W= 6'-0", TOP= ~~183.77~~ 183.88

6+42.5 STA. ~~6+39~~ CONSTR. TYPE 1A CURB INLET, W= 5'-0", TOP= ~~184.17~~ 184.80

SEE SHEET 2

36" RCP

(2)

LOT 4

LOT 3

STA. 4+71, CONSTR. TYPE 1A CURB INLET, W= 6'-0", TOP= ~~183.77~~ 183.88
STA. 4+79, CONSTR. TYPE 1A CURB INLET, W= 6'-0", TOP= ~~183.77~~ 183.88

6+42.5 STA. ~~6+39~~, CONSTR. TYPE 1A CURB INLET, W= 5'-0", TOP= ~~184.17~~ 184.80

7+99.1 STA. ~~7+98~~, CONSTR. TYPE 1A CURB INLET, W= 5'-0", TOP= ~~185.83~~ 185.83

8+06 STA. ~~8+07~~, CONSTR. TYPE 1A CURB INLET, W= 4'-2", TOP= ~~185.98~~ 185.91

Proposed Top of Curb Grade

EXISTING GROUND

185
180
175

CTR. ℄ 177.35
R. OUT= ~~177.35~~
R. IN= ~~173.85~~

CTR. ℄ 178.11
R. OUT= ~~177.61~~
R. IN= ~~173.61~~

CTR. ℄ 179.71
R. OUT= ~~179.45~~
R. IN= ~~175.95~~

CTR. ℄ 180.54
R. OUT= ~~180.04~~
R. IN= ~~176.54~~

CTR. ℄ 181.74
R. OUT= ~~181.24~~
R. IN= ~~177.74~~

INSTALL 4 LF OF 24" RCP

INSTALL 4 LF OF 24" RCP

INSTALL 4 LF OF 36" RCP

169.7 LF
INSTALL ~~166~~ LF OF 24" RCP @ 0.64%

156.6 LF
INSTALL ~~156~~ LF OF 24" RCP @ 0.45%

23.5 LF
INSTALL ~~23~~ LF OF 15" RCP @ 0.6

5 6 7 8

274.76 129.40 180.00

PLAN
PROFILE
NOTE BOOK
NO.
BY
DATE
REVISIONS
DRAWING NO.
PROJECT
SCALE
STRUCTURE NUMBERING CHRD

POE & ASSOCIATES
CONSULTING ENGINEERS

S.W.S. NO. 249
LINE NO. 1
3/9

ENGINEER: K. HILL	ENGTECH: J. J.
DRAWN BY: J.W.	SCALE: NOTED
DATE: AUG. 1983	SHEET 3 OF 9

LOT 3

LOT 4

LOT 1

℄ 30' Drainage & Utility Easement

5'

SEE SHEET 2

SEE SHEET 3

LINE NO. 1

LINE NO. 2

STA. 0+00, CONSTR. TYPE 1A CURB INLET, W= 6'-0", TOP= 183.77

Proposed 8" Sanitary Sewer

Iron

36" RCP 30.68'

P.C.

℄ 722' CHRISTINE

85' R/W

25' F.F.

10'

15'

347.55' R

8' 8'

Radial to ℄

15" RCP 15" RCP

18" RCP

8'

15" RCP

Iron

0+736

STA. 0+736, CONSTR. TYPE 1A CURB INLET, W= 4'-3", TOP= 183.77 / 183.96

CONSTR. TYPE 1A CURB INLET, W= 4'-2", TOP= 183.77 / 183.96

INSTALL 36 LF OF 15" RCP USFL 178.28 / 179.28

CONSTR. TYPE 1A CURB INLET, W= 4'-3", TOP= 183.77 / 183.96

INSTALL 126 LF OF 15" RCP USFL 178.03 / 179.26

1+81

STA. 1+81, CONSTR. TYPE 1A CURB INLET, W= 4'-2", TOP= 184.77 / 184.67

1+232

STA. 1+232, CONSTR. TYPE 1A CURB INLET, W= 4'-2", TOP= 184.46 / 184.61

Proposed 12" A.C. Water Main

STA. 0+00, CONSTR. TYPE 1A CURB INLET, W=6'-0", TOP= 183.77 / 183.88

EXISTING GROUND

Proposed Top of Curb Grade

185

180

175

R. OUT 177.75 / 177.35

R. IN 179.46 / 179.06

CTR. RE 178.18

INSTALL 73.6 LF OF 36" RCP @ 0.51%

R. OUT 177.75 / 177.35

R. IN 179.46 / 179.06

CTR. RE 179.96 / 179.56

INSTALL 93.6 LF OF 18" RCP @ 0.45%

R. OUT 177.75 / 177.35

R. IN 179.46 / 179.06

CTR. RE 179.97 / 179.57

INSTALL 7.8 LF OF 15" RCP

179.42

0 1 2

AS BUILTS
11/84
MCGREGOR

N

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

PLAN
SURVEYED
PLOTTED
CHECKED
ALIGNMENT CHECKED
PT. OF INTERSECTION CHKD
NOTE BOOK
NO.
DATE
BY

PROFILE
SURVEYED
PLOTTED
CHECKED
G.M.'s NOTED
STRUCTURE NO'S ATTNS CHKD
NOTE BOOK
NO.
DATE
BY

dp
POE & ASSOCIATES
CONSULTING ENGINEERS

S.W.S. NO. 249
LINE NO. 2
4/9

ENGINEER: K. HILL | ENG TECH: J.W.
DRAWN BY: J.W. | SCALE: NOTED
DATE: AUG., 1983 | SHEET 4 OF 9

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PROFILE — SURVEYED / PLOTTED / GRADES CHECKED / NOTE BOOK NO. / STRUCTURE NOTATING GIVEN / BY / DATE

CENTRAL AVENUE

℄ 2" GAS LINE

FLUME

EXIST. 24" C.I.P. WATER MAIN

Proposed 12" W.C. Water Main

REMOVE AND REPLACE ASPHALT PAVING, INCIDENTAL TO PROJECT COSTS.

CONC. CRIB

15" RCP

12" RCP

INLET

INLET

30' R/W

78°26'

ORNAMENTAL BRICK WALL

SIGN

20' DRAINAGE EASEMENT

26'

DRAINAGE R/W

32'

ASPHALT PARKING LOT

INSTALL RIP-RAP EROSION PROTECTION

STA. 6+00 BACK OF HEADWALL CONSTR. HEADWALL FOR 42" R.C.P. (SEE SHEET 9 FOR DETAILS

THE CONTRACTOR SHALL MAINTAIN ACCESS TO THE OFFICE BUILDINGS IN THIS AREA DURING CONSTRUCTION. ALL GRASS DISTROYED IN THIS AREA SHALL BE REPLACED. THE CONTRACTOR SHALL NOTIFY TOM BOYD, ONE WEEK PRIOR TO BEGINNING CONSTRUCTION, AT BOYD INVESTMENT CO., 5903 E. CENTRAL, 686-2292

LINE NO. 3

60' R/W

10' DRAINAGE EASEMENT

LOT 4 (2)

LOT 2 (1)

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

N

EXIST. 24" C.I.P. WATER MAIN

238.4'

205.0'

30' R/W

23.84'

4+11.7

183.41

4+44.4

18360

5+21

184.22

5+24.9

184.23

℄ CHRISTINE

10' 25'FF 15' 25'FF 10'

85' R/W

CTR ℄ 180.01

As Builts
11/84
McGREEVE

185
180
175
170

Exist. Ground

10 YR. G.W.S. 175.3

8 Sta. Sewer

INSTALL 405.7 Lin. Ft. of 42" R.C.P. @ 0.58

INSTALL 32.7 Lin. Ft. 21" RCP @0.75%

INSTALL 72.7 Lin. Ft. 18" RCP @ 0.75

CTR ℄ 174.01

CTR ℄ 179.12

CTR ℄ 179.84

183.41

18360

184.22

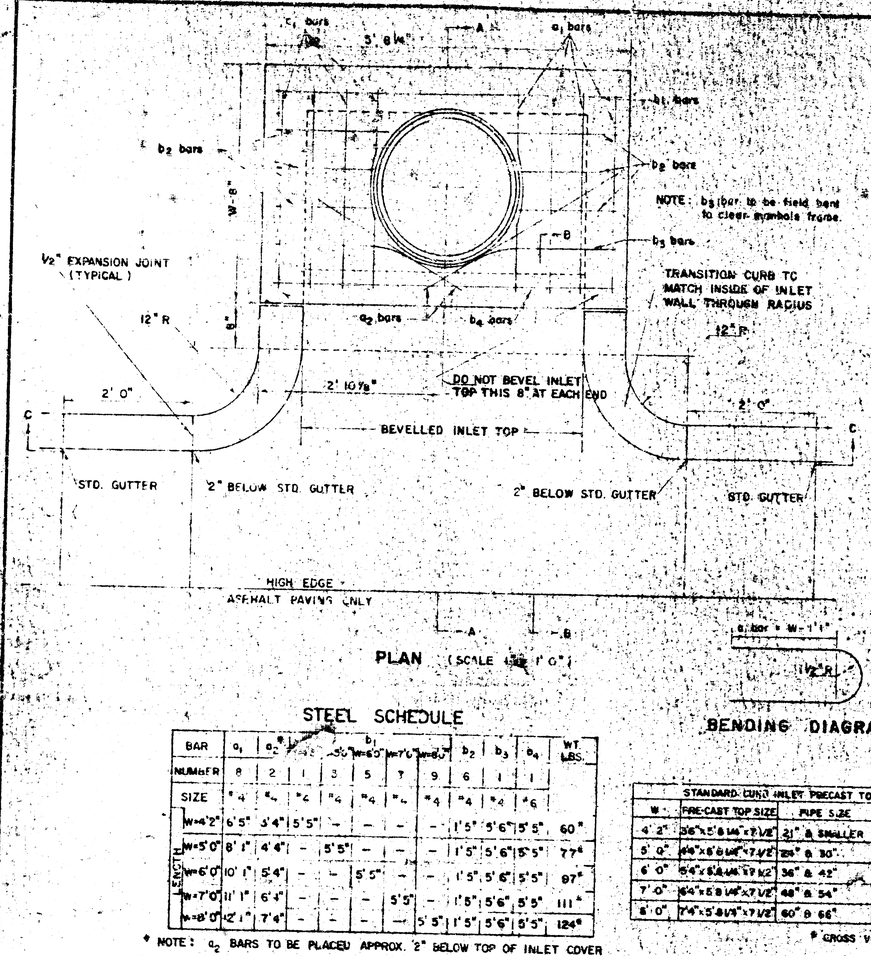
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POE & ASSOCIATES
CONSULTING ENGINEERS

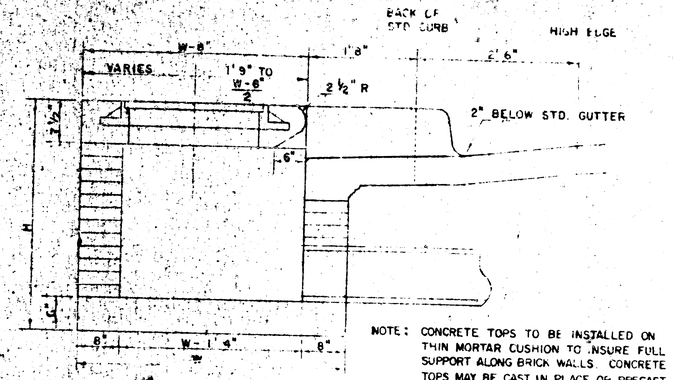
S.W.S. NO. 249
LINE NO. 3 5/9

ENGINEER K. HILL	ENG TECH J.W.
DRAWN BY J.P.	SCALE NOTED
DATE AUG. 1983	SHEET 5 OF 9

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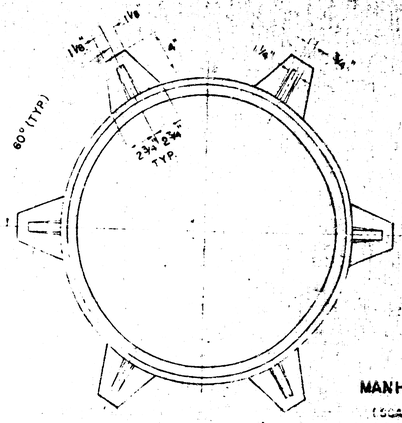


PLAN (SCALE 1/2" = 1'0")



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

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 FOR INLET TOPS AND FLOORS SHALL BE *STANDARD* PAVING MIX.



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

STEEL SCHEDULE

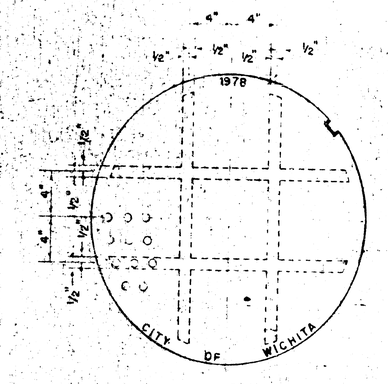
BAR	a_1	a_2	b_1 W=4'0"	b_1 W=5'0"	b_1 W=6'0"	b_1 W=8'0"	b_2	b_3	b_4	WT. LBS.
NUMBER	8	2	1	3	5	7	9	6	1	1	
SIZE	#4	#4	#4	#4	#4	#4	#4	#4	#4	#6	
W=4'2"	6'5"	3'4"	5'5"	–	–	–	–	1'5"	5'6"	5'5"	60#
W=5'0"	8' 1"	4'4"	–	5'5"	–	–	–	1'5"	5'6"	5'5"	77#
W=6'0"	10' 1"	5'4"	–	–	5'5"	–	–	1'5"	5'6"	5'5"	97#
W=7'0"	11' 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#

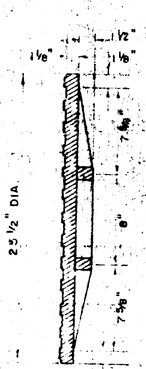
* NOTE: a_2 BARS TO BE PLACED APPROX. 2" BELOW TOP OF INLET COVER

BENDING DIAGRAM

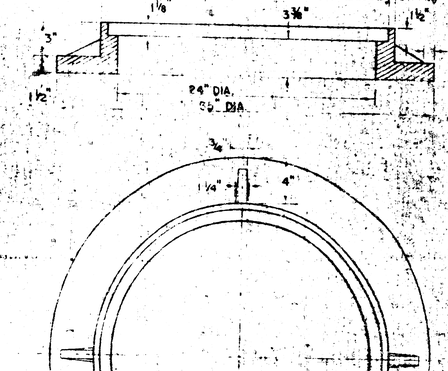
STANDARD CURB INLET PRECAST TOPS			
W	PRE-CAST TOP SIZE	PIPE SIZE	CU. YD. CONC
4' 2"	36"x5'8 1/4"x7 1/2"	21" & SMALLER	0.46 #
5' 0"	44"x5'8 1/4"x7 1/2"	24" & 30"	0.57 #
6' 0"	52"x5'8 1/4"x7 1/2"	36" & 42"	0.71 #
7' 0"	60"x5'8 1/4"x7 1/2"	48" & 54"	0.84 #
8' 0"	74"x5'8 1/4"x7 1/2"	60" & 66"	0.97 #

GROSS VOLUME

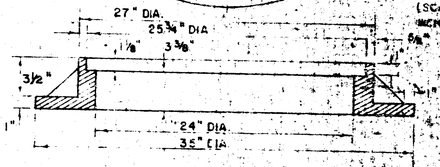


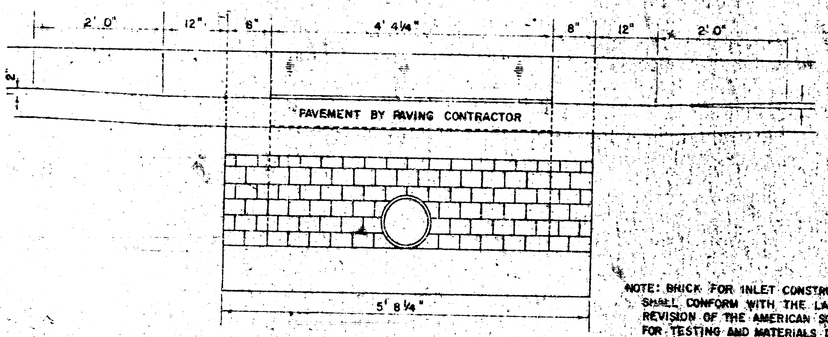


MANHOLE COVER
(SCALE 1" = 6")
WEIGHT = 170 LBS.



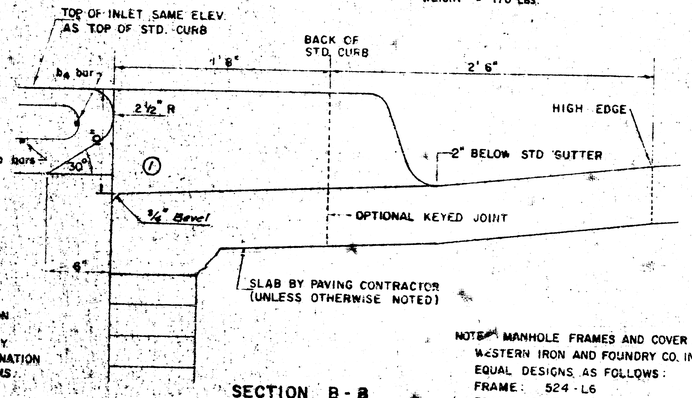
MANHOLE FRAME (ALTERNATE)
(SCALE 1" = 6")
WEIGHT = 190 LBS.





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")

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. 8-10-65
Rev. 5-12-81

S.W.S. NO. 249

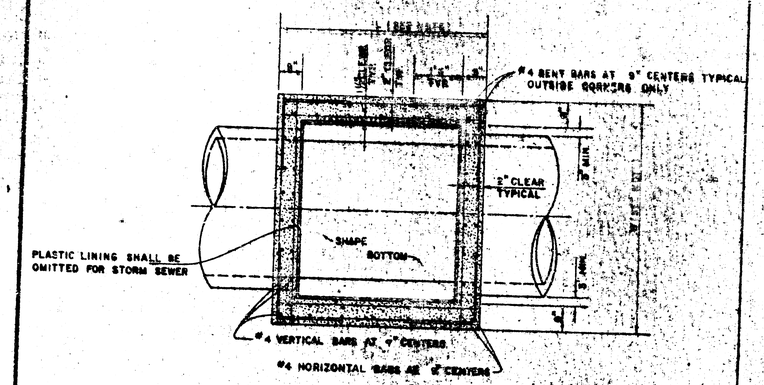
DETAIL STANDARD TYPE 1A CURB INLET

CITY OF WICHITA, KANSAS

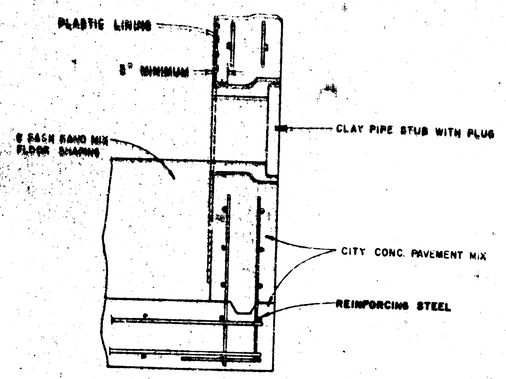
M.E. LINDEBAK, CITY ENGINEER

JUNE, 1961

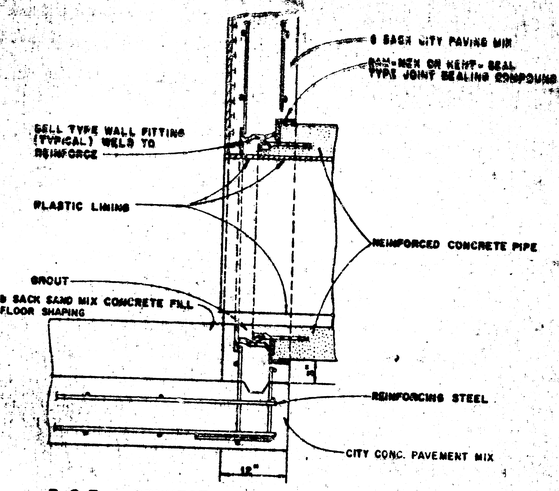
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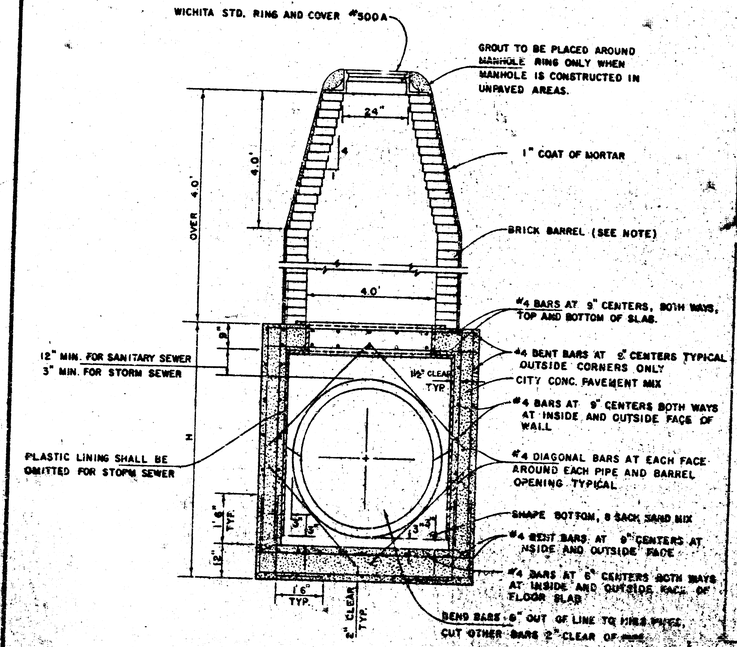
TOP VIEW



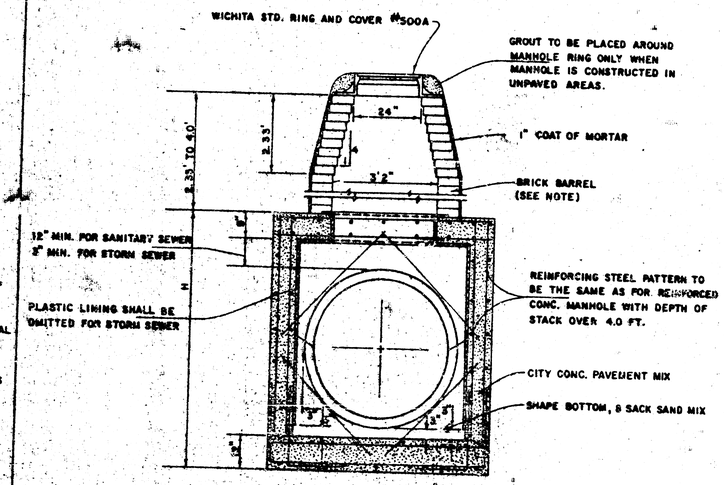
V.C.P. CONNECTION DETAIL
SANITARY SEWER ONLY



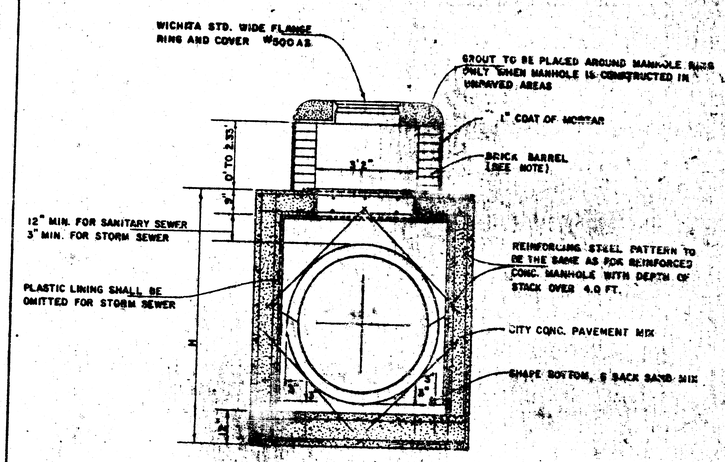
R.C.P. CONNECTION DETAIL
SANITARY SEWER ONLY



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'

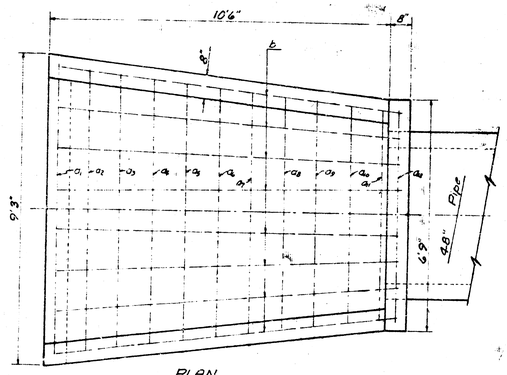
NOTE:
BRICK BARRELS LESS THEN 8' DEEP SHALL HAVE 8" WALLS EXCEPT WHEN LOCATED WITHIN PUBLIC STREET OR ALLEY PAVEMENT THEN THE WALL SHALL BE 12" BRICK. BARRELS MORE THEN 8' DEEP SHALL HAVE 12" WALLS THE 'L' AND 'W' DIMENSIONS SHALL BE A MINIMUM OF 3'-3" FOR BRICK BARRELS WITH 8" WALLS AND 4'-3" FOR BRICK BARRELS WITH 12" WALLS.

S.W.S. NO. 249

STANDARD DETAILS
REINFORCED CONCRETE MANHOLES
CITY OF WICHITA

APRIL 1978

FILMED FROM THE BEST

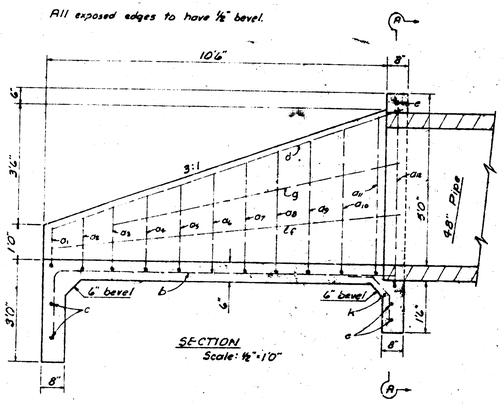


PLAN
Scale: ½"=1'0"

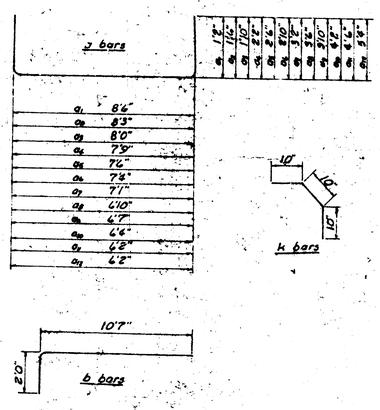
TABLE OF QUANTITIES				
BAR	NUMBER	LENGTH	SHAPE	WEIGHT
a_1	1	10'10"		7.24
a_2	1	11'3"		7.52
a_3	1	11'8"		7.79
a_4	1	12'1"		8.07
a_5	1	12'4"		8.35
a_6	1	13'0"		8.68
a_7	1	13'5"		8.96
a_8	1	13'10"		9.24
a_9	1	14'3"		9.52
a_{10}	1	14'8"		9.80
a_{11}	1	15'2"		10.13
a_{12}	1	16'10"		11.24
b	8	12'7"		67.23
c	2	8'4"		11.34
d	2	11'4"		15.34
e	3	4'3"		12.91
f	2	10'9"		14.34
g	2	9'0"		12.02
h_1	4	1'2"		3.12
h_2	4	8"		1.78
j	4	3'3"		8.68
k	7	2'6"		11.69
Rebars (lbs)				245.07
Concrete (C.Y.)				4.75

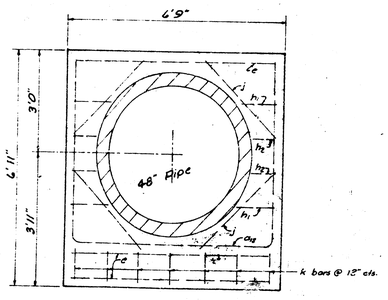
All rebars to be #4

All exposed edges to have ½" bevel.



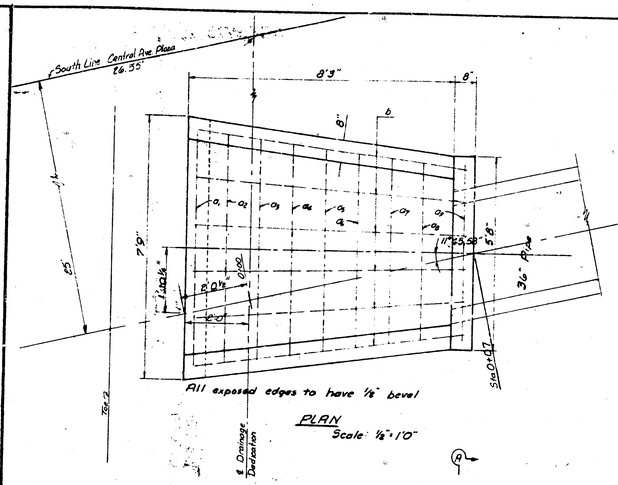
SECTION
Scale: ½"=1'0"





SECTION A-A
Scale: ½"=1'0"

HEADWALL FOR 48" PIPE

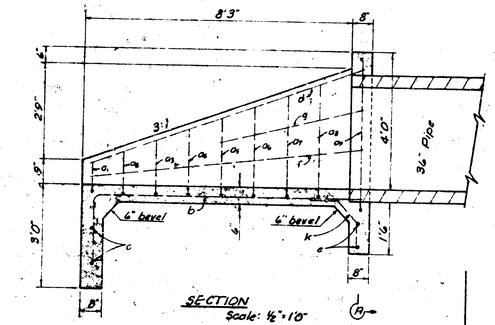


All exposed edges to have ½" bevel

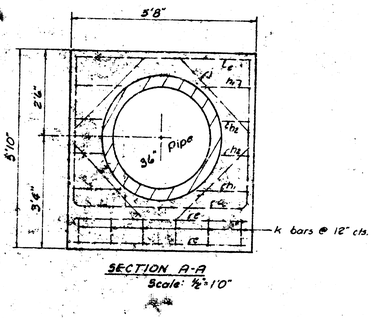
PLAN
Scale: ½"=1'0"

TABLE OF QUANTITIES				
BAR	NUMBER	LENGTH	SHAPE	WEIGHT
a_1	1	8'7"		5.73
a_2	1	9'0"		6.01
a_3	1	9'7"		6.40
a_4	1	10'0"		6.68
a_5	1	10'5"		6.96
a_6	1	10'10"		7.24
a_7	1	11'5"		7.52
a_8	1	11'10"		7.90
a_9	1	14'0"		9.35
b	6	10'6"		41.62
c	2	7'0"		9.35
d	2	9'0"		12.02
e	3	5'6"		10.69
f	2	8'5"		11.24
g	2	4'7"		6.12
h_1	4	1'6"		4.01
h_2	4	10"		2.23
j	4	3'0"		8.02
k	6	2'6"		10.02
Total Rebars, lbs				178.91
Conc C.Y.				3.20

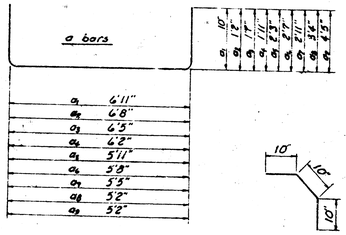
All Rebars to be #4



SECTION
Scale: ½"=1'0"



SECTION A-A
Scale: ½"=1'0"

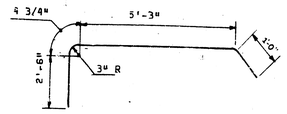


HEADWALL FOR 36" PIPE

POE & ASSOCIATES
CONSULTING ENGINEERS

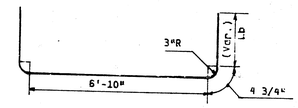
S.W.S. NO. 249
HEADWALL DETAIL

ENGINEER: K. HILL	ENG. TECH: J.W.
DRAWN BY: A.P.	SCALE: NOTED
DATE: AUG. 1981	SHEET 4 OF 5



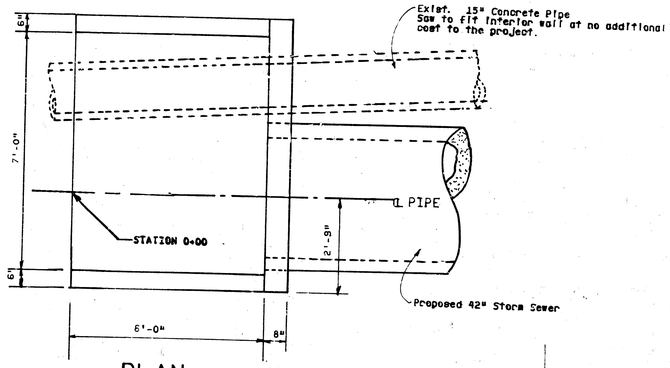
b bar

TOTAL LENGTH 9'-1 3/4"
8 REQUIRED

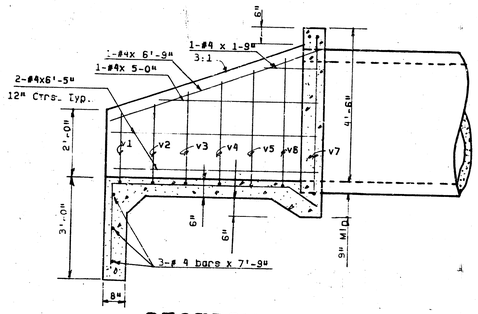


v1-v7 bar

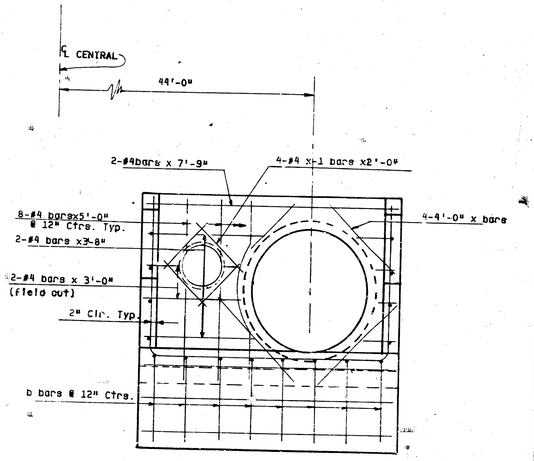
BAR	Lb	TOT. LENGTH
V1	2'-0"	9'-7 1/2"
V2	2'-6"	10'-3 1/2"
V3	2'-8"	10'-11 1/2"
V4	3'-0"	11'-7 1/2"
V5	3'-3"	12'-3 1/2"
V6	3'-8"	12'-11 1/2"
V7	4'-6"	14'-1 1/2"



PLAN



SECTION



NOTE: Field bend all bars around Pipes at no additional cost to the project.

HEADWALL @ STATION 0+00 LINE NO. 3

NOTE: ALL BARS SHALL BE #4 UNLESS OTHERWISE NOTED.

POE & ASSOCIATES
CONSULTING ENGINEERS

S.W.S. NO. 249

HEADWALL FOR 42" RCP

ENGINEER K.R.HILL	CHECKED BY K.R.H.
DRAWN BY J.G.P.	SCALE: NONE
DATE: APR. 1981	SHEET 9 OF 9

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