AVENUE

CLIFTON

BLUFFVIEW

DRIVE

HARRY STREET

Lot 1 Block A

Lot 8 Block A

Lot 7

1329.13'

148.1'

890.99'

821.50'

1313.72'

1218.51'

202.65'

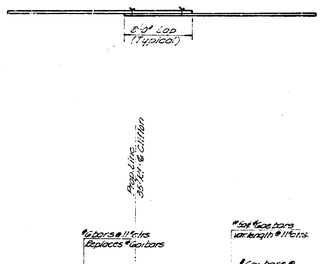
Sanitary Sewer Reconstruction

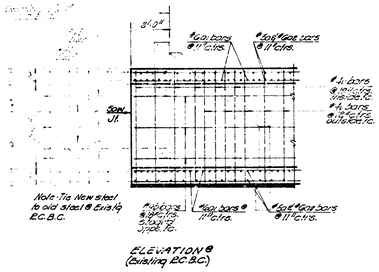
8'-9" R.C.B.C.

Existing Creek

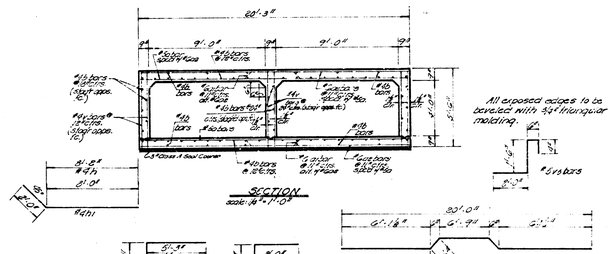
Existing Creek

Existing Creek





ELEVATION @
(Existing B.C.B.C.)


20'-3"
9'-0"
9'-0"
#5@ bars @ 11" ctrs.
#4 bars @ 22" ctrs.
#4 bars @ 11" ctrs. (near side pt.)
#5@ bars @ 11" ctrs. (far side)
#4 bars @ 11" ctrs. (near side)
#5@ bars @ 11" ctrs. (far side)
#4 bars @ 11" ctrs.
#5@ bars @ 11" ctrs. all @ #6@ bars
#5@ bars @ 11" ctrs. spaced @ #6@ bars
#4 bars @ 22" ctrs.
#4 bars @ 11" ctrs.
#5@ bars @ 11" ctrs. all @ #6@ bars
#5@ bars @ 11" ctrs. spaced @ #6@ bars
#4 bars @ 11" ctrs.
#4 bars @ 11" ctrs.
#4 bars @ 11" ctrs.

GENERAL NOTES

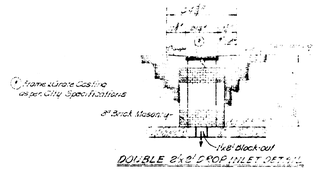
1. CLASS A-E CONCRETE - SHALL BE USED THROUGHOUT CULVERT CONSTRUCTION. ALL REINFORCING STEEL SHALL CONFORM TO A.S.T.M. SPECIFICATIONS.

2. EARTHWORK - ALL EARTH WORK SHALL BE CONSIDERED AS "COMMON EXCAVATION" EXCEPT FOR TOE WALL EXCAVATION SHALL BE INCLUDED IN LUMP SUM BID OF R.C.B.C. ALL MATERIALS SUITABLE FOR BACKFILL TO REMAIN ON PROJECT.

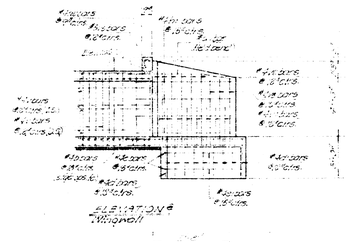
3. BACKFILL - SHALL BE COMPACTED TO TOP OF NEW STRUCTURE. ALL BACKFILL AND EXCAVATION TO EXTEND TO (2') BEYOND WALLS OF BOX AND WING WALLS. BACKFILL OF WING WALLS TO BE PNEUMATICALLY HAND TEMPED OR EQUAL AS DIRECTED BY FIELD ENGINEER. THIS WORK TO BE CONSIDERED AS PART OF C.Y. COMPACTED FILL AND WILL BE INCLUDED IN "LUMP SUM BID" OF R.C.B.C.

4. SEAL COURSE - CONSISTING OF (3") CLASS (A) CONCRETE SHALL BE CONSTRUCTED ONLY WHERE SPECIFIED ON PLANS OR BY THE ENGINEER. NO REINFORCING STEEL SHALL BE PLACED UNTIL SEAL COURSE HAS GAINED SUFFICIENT STRENGTH TO PERMIT WORKING UPON IT WITHOUT INJURY. THIS ITEM SHALL BE PAID AS PLAN QUANTITY IF USED.

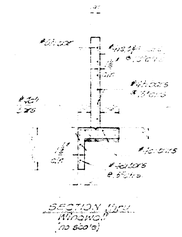
BIDDING OF CULVERT - THE CULVERT SHALL BE BID AS A "LUMP SUM BID" EXCEPT FOR THE FOLLOWING ITEMS: CLASS (A) CONCRETE, DOUBLE 7' x 7' INLETS, CLEARING OF RIGHT-OF-WAY. THE INSTALLATION OF STUB OUTS FOR STORM WATER LEADS TO BE CONSIDERED A PART OF THE LUMP SUM BID OF R.C.B.C. THE ITEMS IN THE "BILL OF MATERIALS" AND THE "BAR SCHEDULE" ARE FOR ESTIMATING PURPOSES ONLY. THE CONTRACTOR IS TO SATISFY HIMSELF TO THE QUANTITIES AND THE ENGINEER ASSUMES NO RESPONSIBILITY FOR THEIR ACCURACY. THE CONTRACTOR WILL HAVE FULL RESPONSIBILITY FOR PROVIDING ALL MATERIALS SHOWN ON THE DETAILED PLANS NECESSARY TO COMPLETE THIS PROJECT.



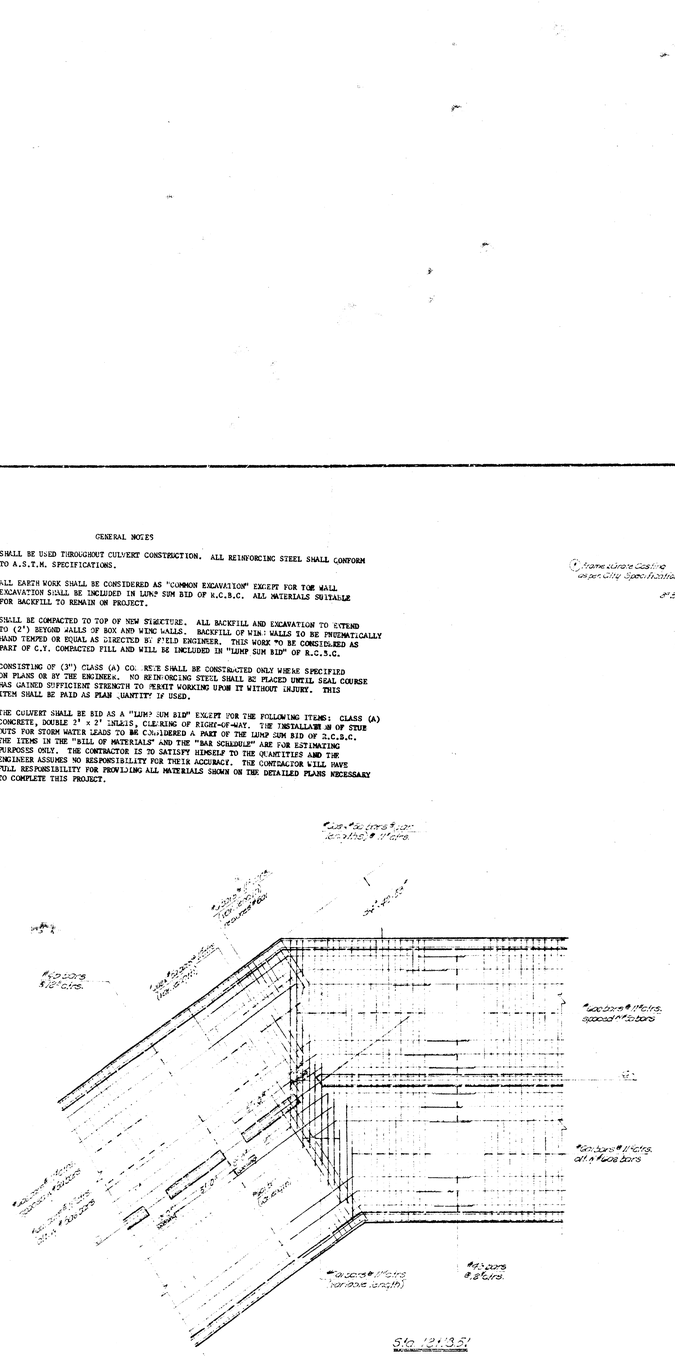
DOUBLE 2'x2' DROP INLET DETAIL



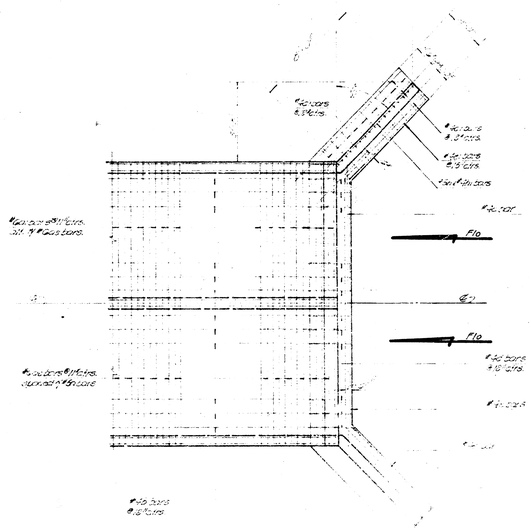
ELEVATION Wingwall



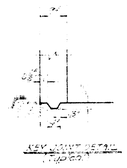
SECTION THRU Wingwall (no scale)



Sta. 121+31



Sta. 131+15



KEY JOINT DETAIL (no scale)

SUMMARY OF QUANTITIES

CLASS A-AE CONCRETE	1924.05	cu. yds.
COMMON EXCAVATION	8512.2	cu. yds.
COMPACTED BACKFILL	1529.9	cu. yds.
REINFORCING STEEL	316,620.0	lbs.
DOUBLE 7' x 7' INLETS	2	each
CLEARING OF RIGHT-OF-WAY	LUMP SUM	
CLASS (A) CONCRETE (SEAL COURSE)	245.0	cu. yds.
CONCRETE BRICK WALLS	19.3	lin. ft.

BAR SCHEDULE

TYPE	SIZE	NO.	LENGTH	SHAPE	POUNDS
a	5	2788	20'.0"		58,157.0400
a1	6	2796	20' - 0"		87,741.6700
a2	6	2788	20' - 0"		83,751.2400
b	4	2660	30' - 0"		91,753.2400
c	4	1	20' - 0"		13.3600
c1	4	6	11' - 0"		44.0800
d	4	18	4' - 9"		57.1100
d1	4	18	5' - 9"		69.1300
e	4	2	21' - 10"		29.1693
e1	4	4	8' - 0"		21.3760
h	5	2	10' - 3"		11.2077
h1	4	8	10' - 0"		53.3400
h2	4	3	20' - 0"		40.0800
v	4	4633	11' - 3"		12,911.2110
v2	4	12	7' - 9"		62.0000
v3	4	7	6' - 3"		35.0000
v4	4	10	4' - 3"		45.4200
v5	5	21	4' - 0"		94.9190
a	5	100	var.		1259.7400
a1	6	64	var.		594.6700
a2	6	100	var.		1426.9102
Extra Steel	6	32	var.		270.0000

G.T. = 316,619.3500 lbs.
= 158.3096 tons

STORM WATER DRAIN #13

St. Joseph Medical Park Addition & Mor-ell Addition.

DSC0573073

ST. JOSEPH MEDICAL PARK
Lot 1 Blk. A

CLIFTON AVE.

Sta. 11+10 Stub-out 4"x18" R.C.P.

Sta. 11+40 • Const. Dbl. 2'x2' Inlet Elev. (Top grate) = 134.84

Sta. 11+65 Stub-out 4"x15" R.C.P.

1745 Bend

137.3 Bend

Abandon exist'g MH. Salvage Pkg. Ltd - Sanitary (Incidental to project)

Sta. 11+65 • Const. Dbl. 2'x2' Inlet Top grate elev. = 137.65

E. Creek

Sta. 11+80 Const. Type A MH. Fl. in = 128.33 Fl. out = 128.33

Sta. 11+80 • Stub-out 4"x12" R.C.P.

Sta. 12+11 • Const. Dbl. 2'x2' Inlet top grate elev. = 135.0

Sta. 12+20 Stub-out 4"x12" R.C.P.

Sta. 12+30 Fl. out = 127.00

Sta. 11+84 Stub-out 4"x12" R.C.P.

E. Creek

18.5° Bend

131.76 End Const.

Sta. 11+80 • Stub-out 4"x12" R.C.P.

LINE - C

Sta. 9+28 • Const. Type A (4'Ø) Manhole Fl. in = 127.21 Fl. out = 127.21 4"x4" Stub-out (W)

Sta. 9+00 Const. Type A (4'Ø) Manhole c/w Inlet Top grade elev. = 133.44 Fl. = 128.44

141.17 Bend

Sta. 9+00 • Stub-out 4"x12" R.C.P.

Lot 2, Blk. A

BLUFFVIEW DRIVE

BM. 130.18 "X" in Mid Terrace - N.Cb. Horiz. 31.35' N. @ Clifton Ave.

Sta. 8+70 Const. Type A MH. Fl. in = 123.84 Fl. out = 123.84

Sta. 8+19 • Const. Type A (4'Ø) MH. Match Existing Fl.

Sta. 8+19 Const. Type A (4'Ø) MH. Fl. in = 123.36 Fl. out = 123.36

Sta. 8+00 Const. Type A MH. Match Existing Fl.

Sta. 3+69 • Stub-out 4"x15" R.C.P.

LINE - A

Sta. 3+28 • Const. Type A (4'Ø) Manhole Fl. in = 127.21 Fl. out = 127.21 4"x4" Stub-out (W)

Sta. 3+00 Const. Type A (4'Ø) Manhole c/w Inlet Top grade elev. = 133.44 Fl. = 128.44

Sta. 2+70 Const. Type A MH. Fl. in = 123.84 Fl. out = 123.84

Sta. 2+19 • Const. Type A (4'Ø) MH. Match Existing Fl.

Sta. 2+19 Const. Type A (4'Ø) MH. Fl. in = 123.36 Fl. out = 123.36

Sta. 2+00 Const. Type A MH. Match Existing Fl.

Sta. 1+69 • Stub-out 4"x15" R.C.P.

Sta. 1+40 • Const. Dbl. 2'x2' Inlet Elev. (Top grade) = 134.84

Sta. 1+65 Stub-out 4"x15" R.C.P.

Sta. 1+10 Stub-out 4"x18" R.C.P.

1745 Bend

137.3 Bend

Abandon exist'g MH. Salvage Pkg. Ltd - Sanitary (Incidental to project)

Sta. 1+65 • Const. Dbl. 2'x2' Inlet Top grade elev. = 137.65

E. Creek

Sta. 1+80 Const. Type A MH. Fl. in = 128.33 Fl. out = 128.33

Sta. 1+80 • Stub-out 4"x12" R.C.P.

Sta. 2+11 • Const. Dbl. 2'x2' Inlet top grade Elev. = 135.0

Sta. 2+20 Stub-out 4"x12" R.C.P.

Sta. 2+30 Fl. out = 127.00

Sta. 1+84 Stub-out 4"x12" R.C.P.

E. Creek

18.5° Bend

131.76 End Const.

Sta. 1+80 • Stub-out 4"x12" R.C.P.

LINE - B

Sta. 3+28 • Const. Type A (4'Ø) Manhole Fl. in = 127.21 Fl. out = 127.21 4"x4" Stub-out (W)

Sta. 3+00 Const. Type A (4'Ø) Manhole c/w Inlet Top grade elev. = 133.44 Fl. = 128.44

Sta. 2+70 Const. Type A MH. Fl. in = 123.84 Fl. out = 123.84

Sta. 2+19 • Const. Type A (4'Ø) MH. Match Existing Fl.

Sta. 2+19 Const. Type A (4'Ø) MH. Fl. in = 123.36 Fl. out = 123.36

Sta. 2+00 Const. Type A MH. Match Existing Fl.

Sta. 1+69 • Stub-out 4"x15" R.C.P.

Sta. 1+40 • Const. Dbl. 2'x2' Inlet Elev. (Top grade) = 134.84

Sta. 1+65 Stub-out 4"x15" R.C.P.

Sta. 1+10 Stub-out 4"x18" R.C.P.

1745 Bend

137.3 Bend

Abandon exist'g MH. Salvage Pkg. Ltd - Sanitary (Incidental to project)

Sta. 1+65 • Const. Dbl. 2'x2' Inlet Top grade elev. = 137.65

E. Creek

Sta. 1+80 Const. Type A MH. Fl. in = 128.33 Fl. out = 128.33

Sta. 1+80 • Stub-out 4"x12" R.C.P.

Sta. 2+11 • Const. Dbl. 2'x2' Inlet top grade Elev. = 135.0

Sta. 2+20 Stub-out 4"x12" R.C.P.

Sta. 2+30 Fl. out = 127.00

Sta. 1+84 Stub-out 4"x12" R.C.P.

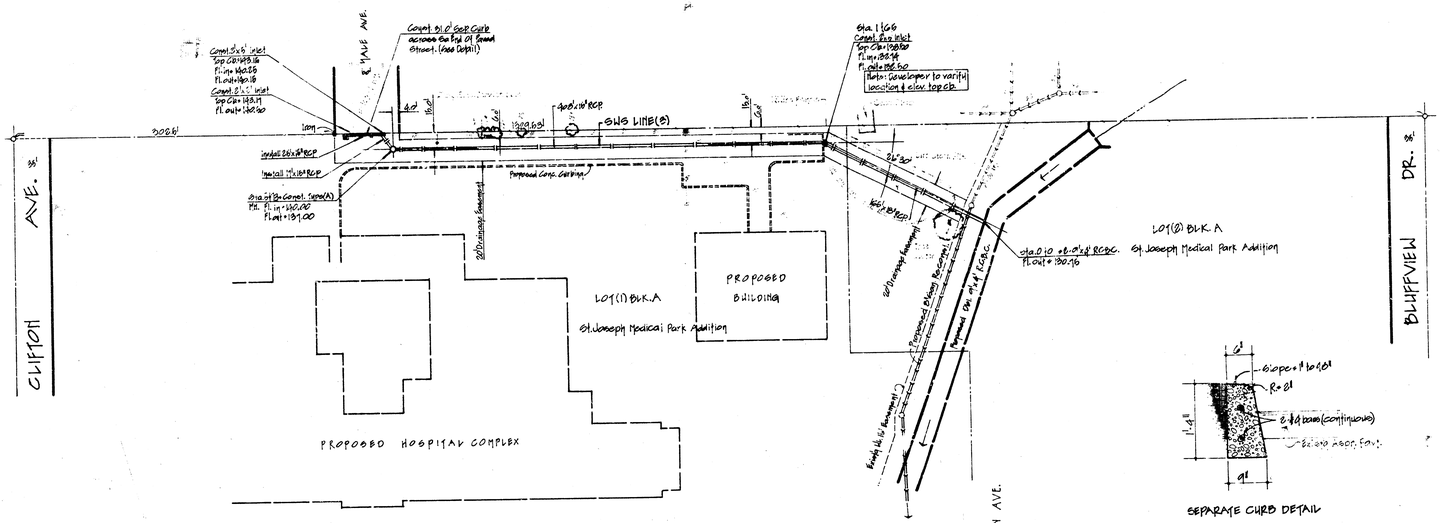
E. Creek

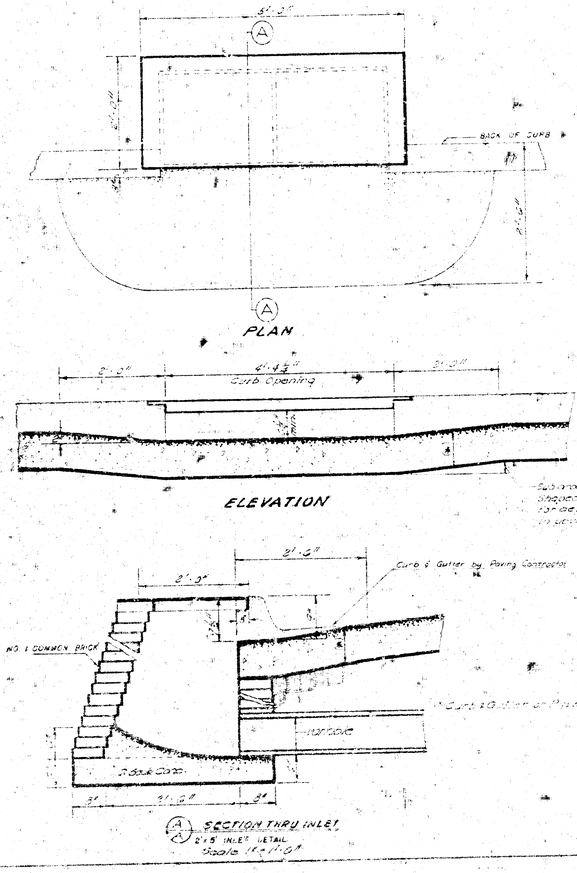
18.5° Bend

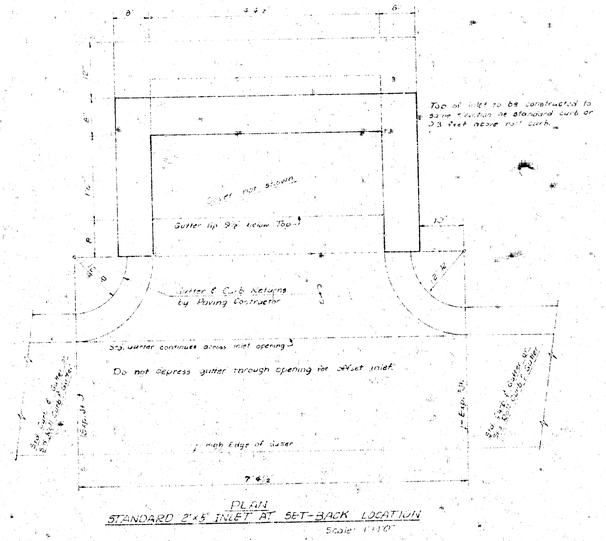
131.76 End Const.

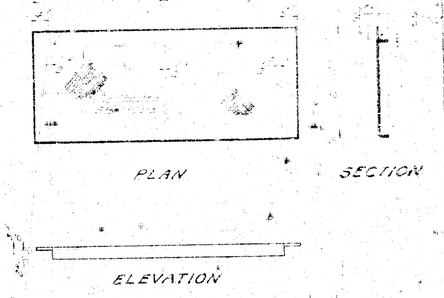
Sta. 1+80 • Stub-out 4"x12" R.C.P.

LINE - C


CLIFTON AVE.
BLUFFVIEW DR.
MAVE AVE.
Const. 5'x5' inlet
Top Clr=1183.16
Fl. in= 1180.25
Fl. out=1180.16
Const. 5'x5' inlet
Top Clr= 1183.11
Fl. out= 1180.00
Const. 6'-0" Cast Curb across the Top Of Street. (Low Depth)
Sta. 1+66
Const. 5'x5' inlet
Top Clr=1188.50
Fl. in= 1181.74
Fl. out= 1181.60
Note: Developer to verify location & elev. top clr.
4'od x 16' RCP
-SWS LINE(B)
Install 24"x18" RCP
Install 18"x18" RCP
Sta. 0+32 Const. 5'x5'(A) Fl. in=1180.00 Fl. out=1179.00
Temporal Conc. Curbing
20' Drainage Easement
LOT(1) BLK. A
St. Joseph Medical Park Addition
PROPOSED BUILDING
PROPOSED HOSPITAL COMPLEX
LOT(2) BLK. A
St. Joseph Medical Park Addition
Sta. 0+10 +6'-0" x 8' RCBC. Fl. out = 1180.16
Proposed 24"x18" RCP
Proposed 18"x18" RCP
Proposed 8'-0" x 8'-0" RCBC
Const. 2'-6" Curb
Const. 6" Conc. Sidewalk
Const. 6" Conc. Driveway
Const. 6" Conc. Curb
Const. 4" Conc. Sidewalk
Const. Asphalt Pavement
Const. Asphalt Pavement
Const. Asphalt Pavement







DETAIL
STANDARD 2' x 5' INLET.

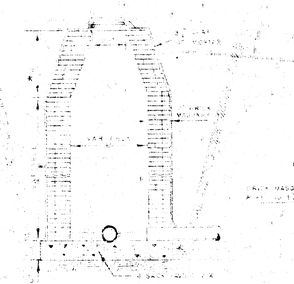
CITY OF WICHITA, KANSAS

R. W. LINN CITY ENGINEER

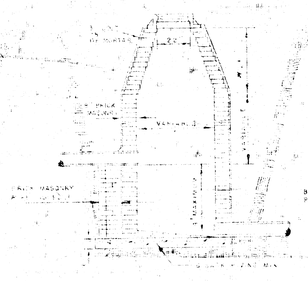
SEPT. 1973

CITY OF WICHITA

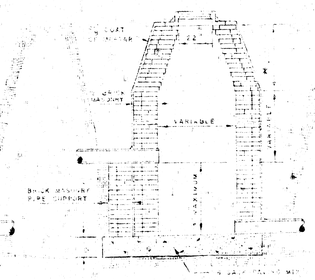
STANDARD MANHOLE
TYPE "A"



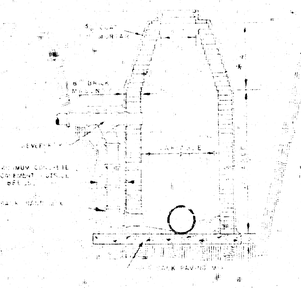
STANDARD MANHOLE
TYPE "B"



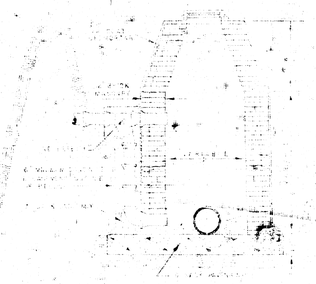
DROP MANHOLE
TYPE "A"



DROP MANHOLE
TYPE "B"

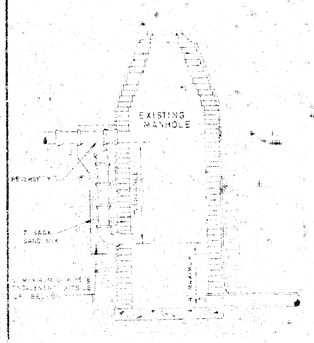


OUTSIDE DROP MANHOLE
TYPE "A"

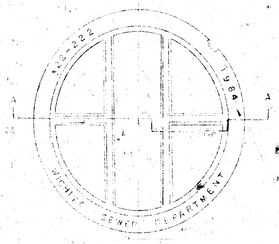


OUTSIDE DROP MANHOLE
TYPE "B"

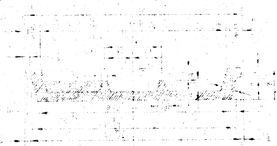
* DRAW 6" ON 5'-0" I.D. M.H.



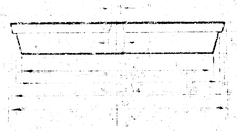
DETAIL OF DROP STACK



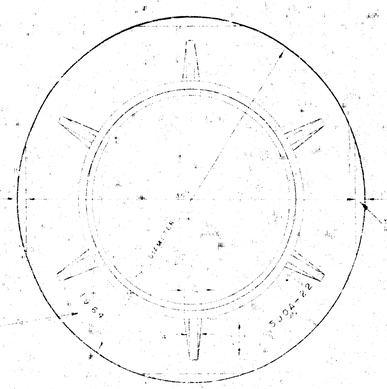
MANHOLE COVER



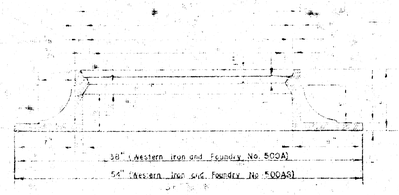
MANHOLE COVER



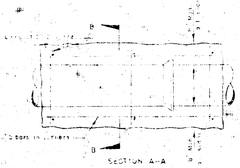
MANHOLE COVER



MANHOLE RING

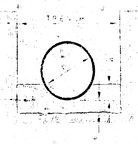


MANHOLE RING



REINFORCED CONCRETE ENCASEMENT
FOR STRENGTH

CONCRETE ENCASEMENT
FOR COVER



DETAIL OF CONCRETE CRADLE

ORDINARY BEDDING METHOD

ORDINARY BEDDING METHOD
FOR REINFORCED CONCRETE PIPE

DETAILS OF
SEWER APPURTENANCES
ADOPTED AS STANDARD DESIGN
BY
ENGINEERING DIVISION
CITY OF WICHITA, KANSAS
R. W. LINN CITY ENGINEER
1964