PLAN — SURVEYED — BY — DATE — DRAWN — NOTE BOOK — ALIGNMENT CHECKED — NO. — RT. OF WAY CHECKED

PROFILE — SURVEYED — BY — DATE — DRAWN — NOTE BOOK — GRADES CHECKED — NO. — STRUCTURE NO'S ASSIGNED — STRUCTURE NO'S CHECKED

Sta 0+11.9 (℄)
Construct Manhole No 1
See Sheets 2 & 6

Line B—
See Sheet 3

8" San. Sewer

11.7%

Line A

Storm Sewer and Drainage Easement

180°

90°

Sta 0+00.0
Begin Storm Sewer
Install 9.4 LF 21" RCP (NE)

℄ GATEWOOD

℄ LINDEN

Line A
See Sheet 2

10' Utility Easement

10' Storm Sewer Easement

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

NOTE:
Manhole No.1 to be Type D (Shallow Manhole) as per Sheet 6. (Equivalent to C.O.W. Type A — Wide Flare) Dia=5'

Preliminary Finished Grade

Existing Grade

9.4 LF 21" Pipe @ 2.0%

95.00

90.00

85.00

80.00

75.00

0+00

NOTE TO CONTRACTOR
This project will be constructed under the supervision of the CITY ENGINEER and according to the specifications of the CITY OF WICHITA. The City Inspector will authorize the City of Wichita to pay cost of construction after inspection.

2	Revised as per CoW design	WG-11-79
1	Changed Storm Sewer Grades	WG-10-79

COUNTRY PLACE GREENS
PART OF LOT 46
COUNTRY PLACE ESTATES
STORM SEWER
WICHITA, SEDGWICK COUNTY, KANSAS

Engineer: [illegible] Engineering Consultants, P.A.
WICHITA, KANSAS

Drawn by: CLIFF WEIGEL — Job No. 77504-51 — Date: 10-10-79

Sec. 16; Twp. 26S; Rge. 02E

PLATE 1 - PLAN - PROFILE - P.A.S.
CLEARPRINT PAPER CO., S.F. CAL.
NO. 1000-1

PLAN
SURVEYED
PLOTTED
NOTE BOOK
NO.
BY
DATE
AUDITOR CHECKED
AT OF WAY CHECKED

PROFILE
SURVEYED
PLOTTED
NOTE BOOK
NO.
BY
DATE
GRADES CHECKED
AT OF WAY CHECKED
STRUCTURE NOTATIONS CHKD

Sta 0+11.9 (℄)
Construct Manhole No 1
Top Elev 90.00
Install 367.0 LF
18" Pipe (S)

Sta 3+52.2
Construct Inlet No 3
Top Elev 94.28

Sta 3+89.2 Construct Inlet No 1
Top Elev 92.02
Install 51.3' LF 12" RCP (S)
Install 172.0 L.F. 18" RCP (NE)

Construct Inlet No. 2
Top Elev 92.02

Line L
See Sheet 2

Line A
See Sheet 1

10' Storm Sewer Easement

10' Utility Easement

95.19
95.23
95.19
94.04
94.22
94.45
94.36
94.28
94.20
94.64
8.00
92.65
93.07
92.02
92.02
92.41
92.41
2.36
92.02
71°(22)

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

Note:
All inlets to be
CoW Type 1A (see
Sheets 4 & 5)

Construct Manhole No 1

Existing Grade

367.0 LF 18" Pipe @ 0.55%

EIN 84.94
EIN 85.98
EOUT 84.91

Construct Manhole No 2

Finished Grade

172.0 LF 18" Pipe @ 1.00%

EIN 88.60
EOUT 88.00
EIN 88.20

Construct Inlet No 3

Existing Grade

Finished Grade

EOUT 90.92

51.3 LF 12" Pipe @ 0.50%

EOUT 88.00
EIN 88.40
EIN 88.26

EOUT 88.52

95.00
90.00
85.00
80.00

1+00
2+00
3+00
4+00

NOTE TO CONTRACTOR
This project will be constructed under the supervision of the CITY ENGINEER and conforming to the CITY standards. The CITY ENGINEER will remain the sole authority for all cost or Engineering Plans and Inspection.

No.	Revision	By	Date
2	Revised as per CoW design	JW	10-17-79
1	Changed St Sewer Grades	JW	6-10-79

COUNTRY PLACE GREENS
PART OF LOT 48
COUNTRY PLACE ESTATES
STORM SEWER
WICHITA, SEDGWICK COUNTY, KANSAS

PROFESSIONAL ENGINEERING CONSULTANTS, P.A.
WICHITA, KANSAS

Designed by C.H.B. JWW | Job No. 77502-1 | Sheet No. 1
Drawn by JWW | Date 7-20-78

466-78-245-80864-000-000-008

PLATE 1 - PLAN - PROFILE - F.A.S.
CLEARPRINT PAPER CO., S.F. CAL.
NO. 1000-1

PLAN
SURVEYED
PLOTTED
NOTE BOOK ALIGNMENT CHECKED
BY OF R/W CHECKED
NO.

PROFILE
SURVEYED
PLOTTED
NOTE BOOK LOCATIONS CHECKED
B.M. NOTED
NO. STRUCTURES PLOTTED & TIED

Sta 13+73.5
Const. Inlet No. 5
Top Elev. 89.75

Sta 13+43.3
Const. Inlet No. 4
Top Elev. 89.75
Install 28.3 L.F.
12" Pipe (E)

Sta 10+00.0 Line B
Sta 0+11.9 Line A

Sta 10+00
Manhole No
See Sheets 1 and 2
Install 333.8 L.F.
18" Pipe (N)

Line A—
See Sheet 2

Line A—
See Sheet 1

10' St. Sewer Esmt.

10' Utility Esmt.

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

Note:
All inlets to be
C.O.W. Type IA (see
Sheets 4 & 5)

94.72
94.78
94.72
94.04
7.45%
89.59
89.65
89.88
89.62
89.77
91.08
92.16
91.82

Sta 13+43.3 Const. Inlet No. 4

Sta 13+73.5 Const. Inlet No. 5

Finished Grade

Existing Grade

Preliminary Finished Grade

28.3 L.F. 12" Pipe @ 0.50%

333.8 L.F. 18" Pipe @ 0.20%

Flow 86.05

Flow 85.61

Flow 84.91

Flow 84.71

Elev. 86.11

Elev. 84.36

95.00
90.00
85.00
80.00

Exist Ground
T.o.C.
4'
3:1
2:1
Section A-A
(Typical)

2	Revised as per C.O.W. design	MJP 1-79
1	Revised Storm Sewer Grades	MJP 10-78

COUNTRY PLACE GREENS
PART OF
COUNTRY PLACE ESTATES
STORM SEWER
WICHITA, SEDGWICK COUNTY, KANSAS
Professional Engineering Consultants, P.A.
WICHITA, KANSAS
Design by CMB, JWW
Drawn by JWW
Job No. 37502-3
Date 6-79
Sheet No. 1 of 6

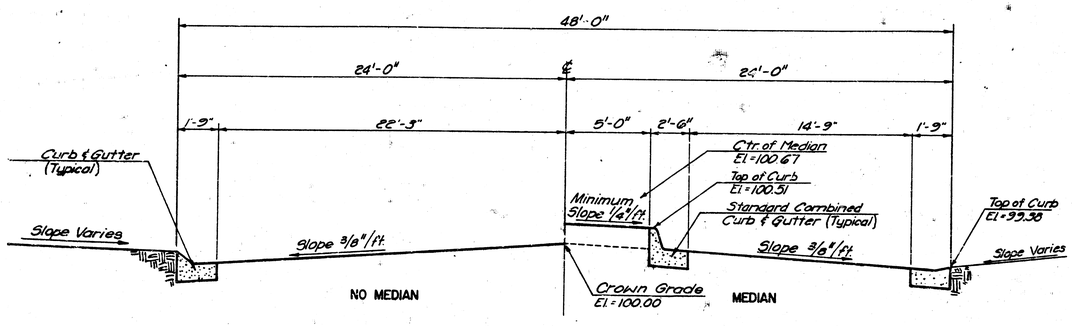
NOTE TO CONTRACTOR
This project will be inspected under the supervision of the City Engineer of Wichita and conform to the City of Wichita Standard Specifications.

AS-BUILT DATA NOTED
BY CITY ENGINEER OF WICHITA
Sanitary Sewers
Storm Sewers
Driveway Approaches

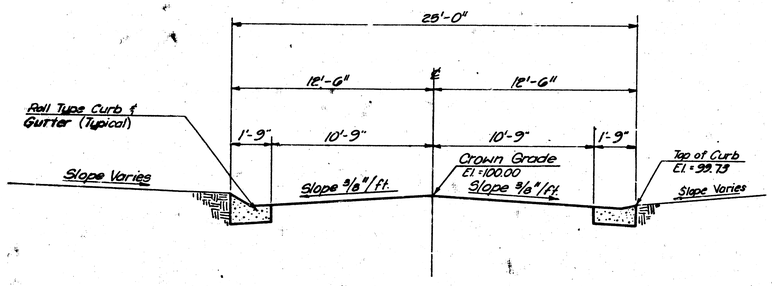
PLATE 1 - PLAN - PROFILE - F.A.S.
CLEARPRINT PAPER CO., S. F., CAL.
NO. 1000H-1

1/6

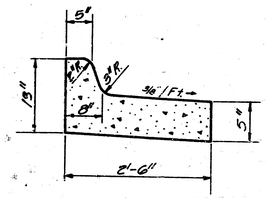
SHEET NO.	TOTAL SHEETS
5	17



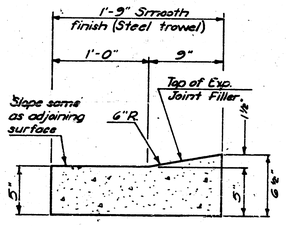
TYPICAL PAVEMENT SECTION W/MEDIAN



TYPICAL PAVEMENT SECTION

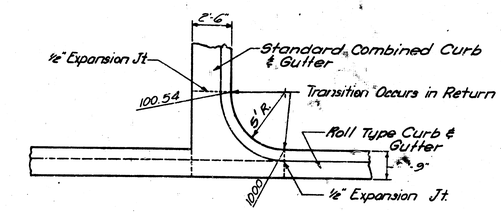


STANDARD COMBINED CURB & GUTTER

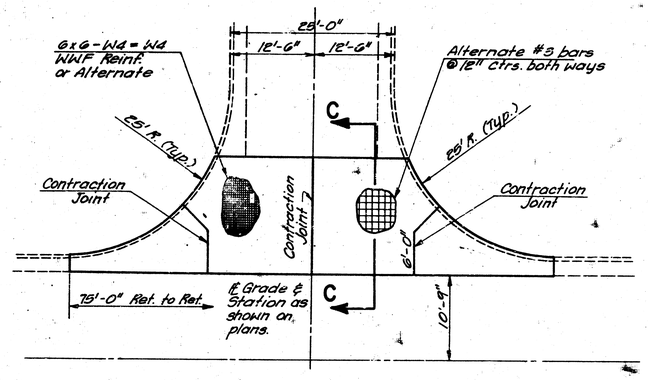


COMBINED CURB & GUTTER (TYPE III) (SPECIAL)

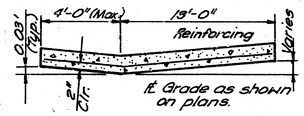
CURB & GUTTER DETAILS



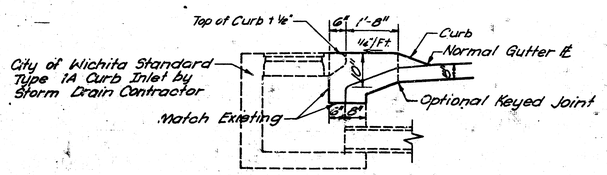
CURB & GUTTER TRANSITION DETAIL



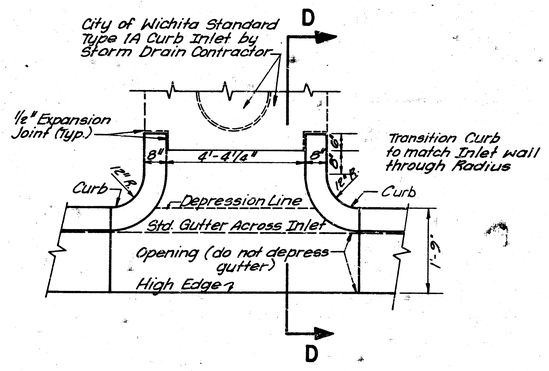
VALLEY GUTTER DETAILS



SECTION C-C



SECTION D-D

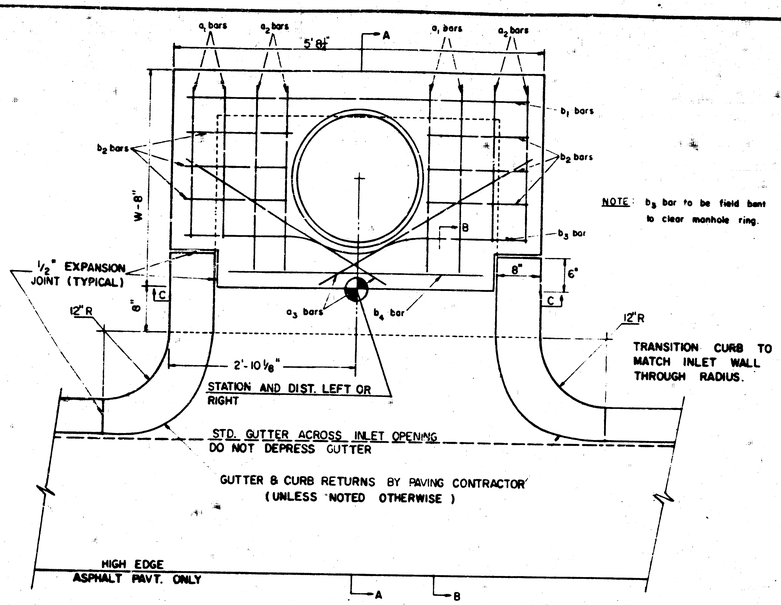


INLET CONNECTION DETAIL

COUNTRY PLACE GREENS
PART OF LOT 48
COUNTRY PLACE ESTATES
TYPICAL SECTIONS & STANDARDS
WICHITA, SEDGWICK COUNTY, KANSAS

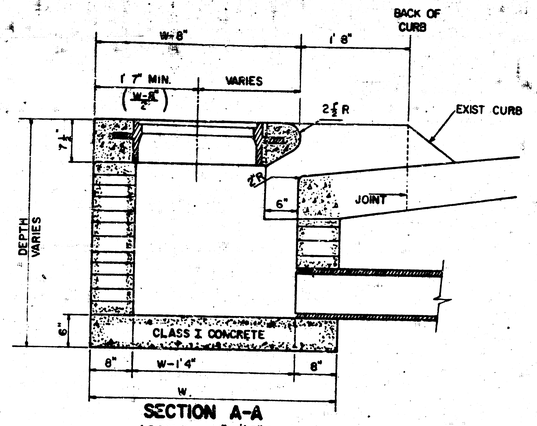
PROFESSIONAL ENGINEERING CONSULTANTS, P.A.
ENGINEERS
WICHITA, KANSAS

Designed by		Checked by	
Drawn by	CM	Date 5-5-70	Job No. 77502-3



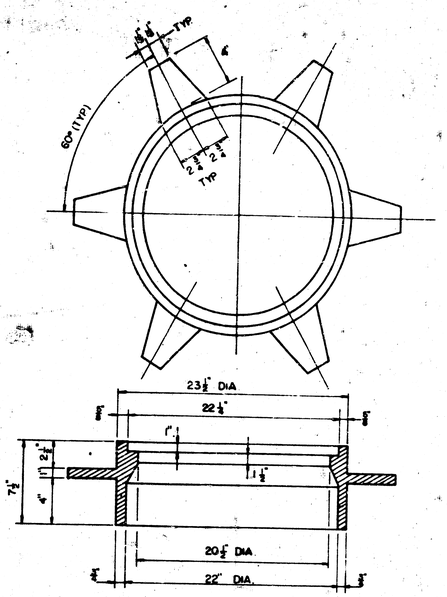
PLAN (SCALE: 1" = 1'0")

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



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

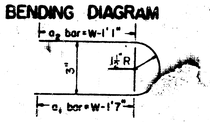
STANDARD CURB INLET PRECAST TOPS			
W	PRE-CAST TOP SIZE	PIPE SIZE	CU. YD. CONC.
3'11"	3'2" x 5'8 ½" x 7½"	18" & SMALLER	0.42



MANHOLE RING

(MANHOLE COVERS TO BE EQUIVALENT TO STANDARD CITY OF WICHITA NO. 500 A)

BENDING DIAGRAM



* GROSS VOLUME

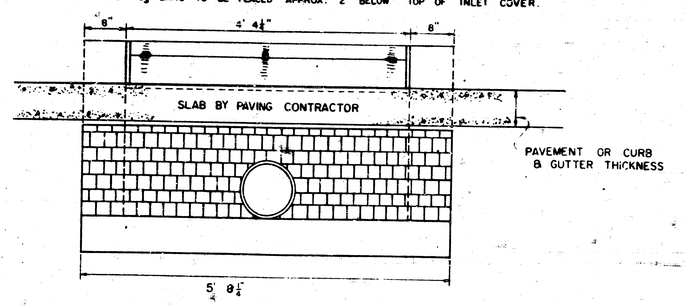
W = BASIS OF PAYMENT FOR INLETS (EACH INLET DEPTH VARIES)

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 CLASS I CONCRETE

STEEL SCHEDULE

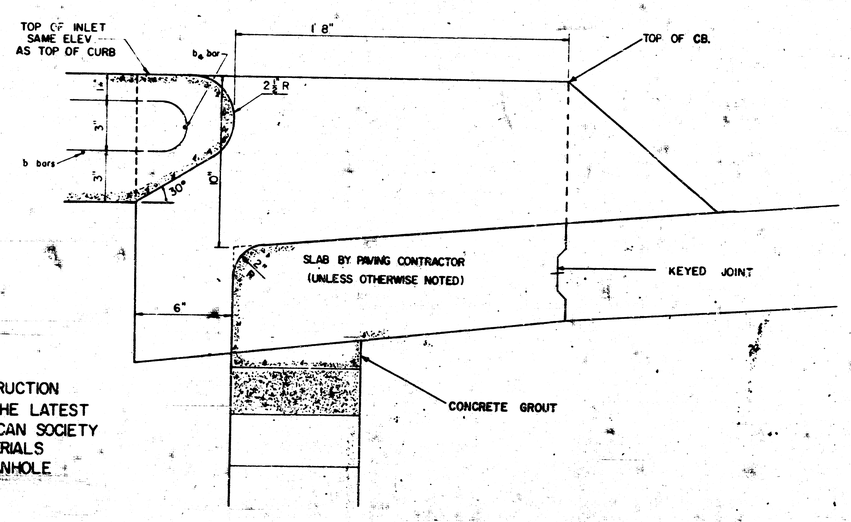
BAR		a_1	a_2	a_3*	b_1 W=3'10"	b_1 W=4'4"	b_1 W=5'0"	b_1 W=8'0"	b_2	b_3	b_4	WT. Lbs.
NUMBER		4	4	2	1	3	5	7	6	1	1	
SIZE		#4	#4	#4	#4	#4	#4	#4	#4	#4	#6	
LENGTH	W=3'10"	4'9"	5'9"	3'7"	5'5"	—	—	—	1'7"	5'6"	4'0"	53
	W=4'4"	6'9"	7'9"	4'7"	—	5'5"	—	—	1'7"	5'6"	4'0"	72
	W=5'0"	8'9"	9'9"	5'7"	—	—	5'5"	—	1'7"	5'6"	4'0"	91
	W=8'0"	10'9"	11'9"	6'7"	—	—	—	5'5"	1'7"	5'6"	4'0"	110

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



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

BRICK FOR INLET CONSTRUCTION SHALL CONFORM WITH THE LATEST REVISION OF THE AMERICAN SOCIETY FOR TESTING AND MATERIALS DESIGNATION C32 FOR MANHOLE BRICK GRADE MS.



SECTION B-B
(SCALE 3" = 1'0")

STD. CITY OF WICHITA TYPE IA CURB INLET

No	Revision	By	Date

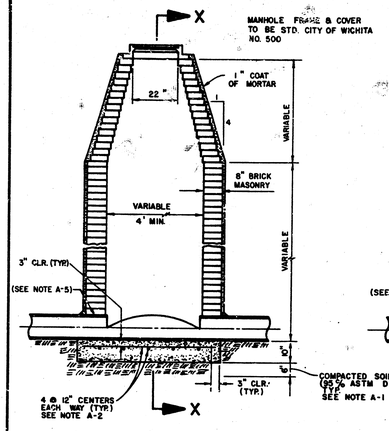
COUNTRY PLACE GREENS

TYPE IA CURB INLET DETAIL

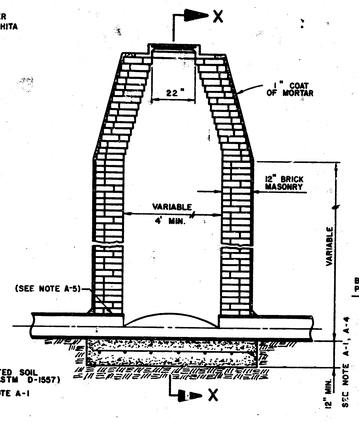
PART OF LOT 48
COUNTRY PLACE ESTATES
WICHITA, SEDGWICK COUNTY, KANSAS

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

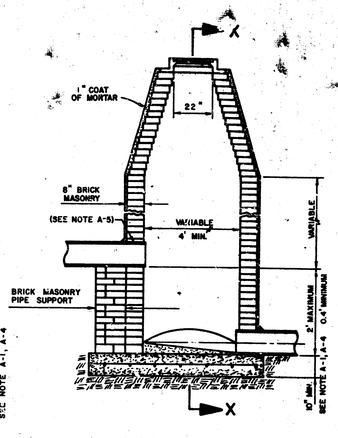
Designed by	Job No. 77502-3	Sht. 2 of 4
Drawn by	Date 6-12-79	



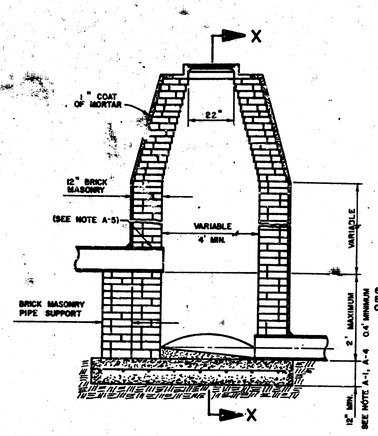
STANDARD MANHOLE
TYPE A



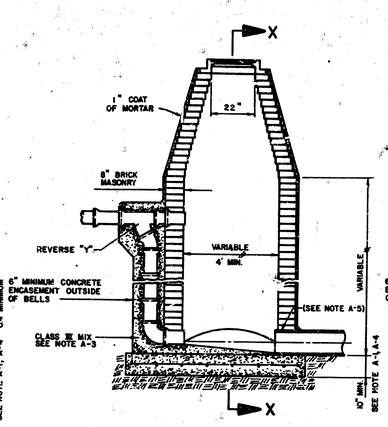
STANDARD MANHOLE
TYPE AA



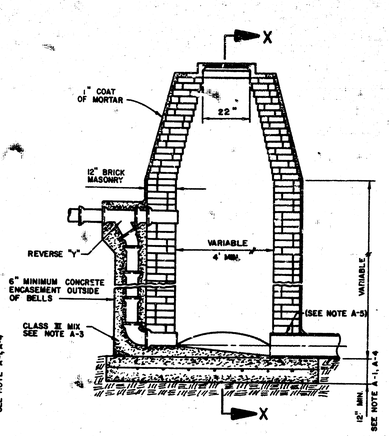
DROP MANHOLE
TYPE B



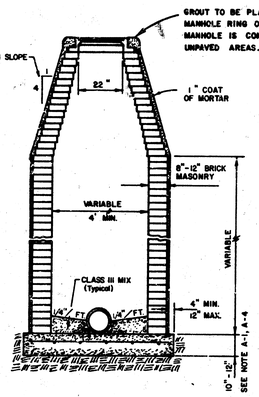
DROP MANHOLE
TYPE BB



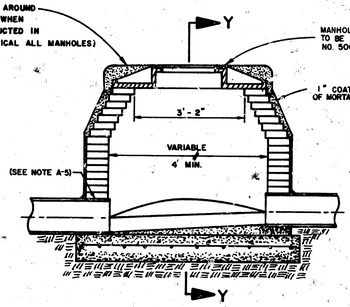
OUTSIDE DROP MANHOLE
TYPE C



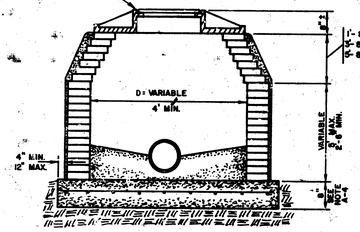
OUTSIDE DROP MANHOLE
TYPE CC



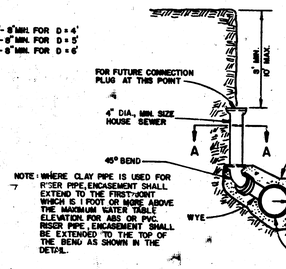
SECTION X



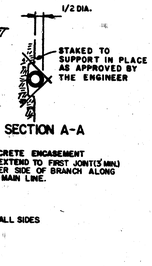
SHALLOW MANHOLE
TYPE D



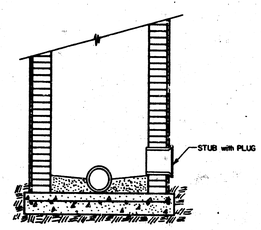
SECTION Y



RISER DETAIL



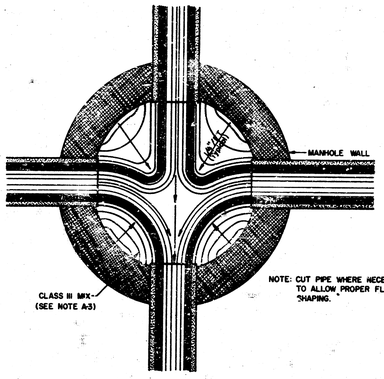
SECTION A-A



STUB DETAIL

NOTES

A. MANHOLES
1. IF, IN THE OPINION OF THE ENGINEER, THE MANHOLE SUBGRADE APPEARS UNSTABLE, THE CONTRACTOR HAS THE OPTION TO COMPACT SUBGRADE AS SHOWN OR INCREASE THE THICKNESS OF THE MANHOLE BASE AS DIRECTED BY THE ENGINEER.
2. STEEL REINFORCING IS REQUIRED IN ALL MANHOLE BASES.
3. MORTAR USED IN MASONRY CONSTRUCTION TO BE CLASS III MIX.
4. ALL MANHOLE BASES TO BE CLASS 1 MIX.
5. APPROVED FLEXIBLE WATERSTOP GASKETS SHALL BE INSTALLED TO JOIN THE SEWER TO THE MANHOLE WALL WHEN A.B.S. COMPOSITE PIPE, POLYETHYLENE PIPE, OR P.V.C. PIPE IS USED. FOR OTHER TYPES OF PIPE THE SEWER EXTENDING FROM MANHOLES SHALL BE SUPPORTED WITH CONCRETE TO THE FIRST JOINT OF PIPE FROM THE MANHOLE WALL. CONCRETE SUPPORTS MAY BE DELETED PROVIDED AN APPROVED FLEXIBLE WATERSTOP GASKET IS INSTALLED TO JOIN THE SEWER TO THE MANHOLE WALL.
6. PIPE PLUGS SHALL BE AS MANUFACTURED BY PIPE SUPPLIER WHEN AVAILABLE.



NOTE: CUT PIPE WHERE NECESSARY TO ALLOW PROPER FLOOR SHAPING.

TYPICAL MANHOLE
FLOOR SHAPING

No.	Revision	By	Date

COUNTRY PLACE GREENS

PROFESSIONAL ENGINEERING CONSULTANTS, P.A.
WICHITA, KANSAS

Designed by	Job No.	Sht. 6 of 6
Drawn by	Date	

9/0

le 10 3 15