STORM WATER SEWER NO. 227

RIVERSIDE FOURTH ADDITION

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 AND MANHOLES AS NOTED ON THE PLANS MAY VARY SO AS TO MEET PROPOSED TOP OF CURB ELEVATIONS OR PAVEMENT ELEVATIONS. THE FIELD ENGINEER SHALL LOCATE INLETS AND MANHOLES WITH REFERANCE TO PROPOSED PAVING PLANS OF THE PERTINENT STREETS.

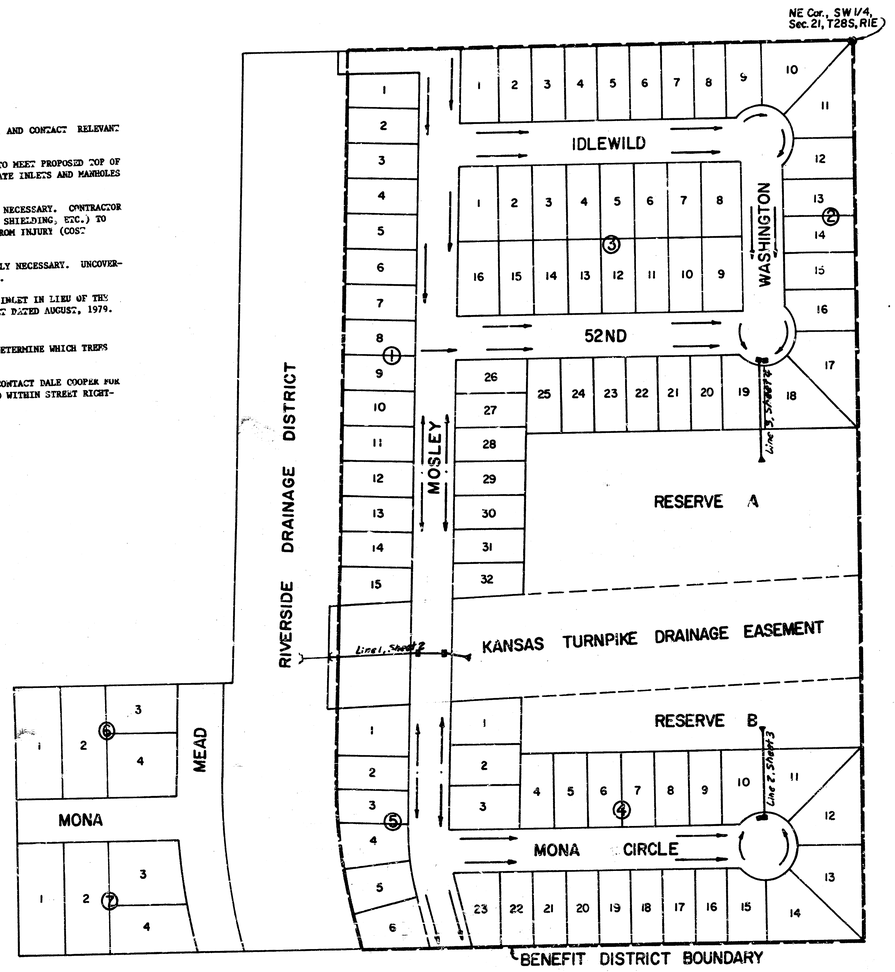
3.) THE CONTRACTOR SHALL AVOID REMOVING ANY TREES UNLESS IT IS ABSOLUTELY NECESSARY. CONTRACTOR IS TO TAKE WHATEVER PRECAUTION THE ENGINEER DEEMS NECESSARY (SHORING, SHIELDING, ETC.) TO INSURE THAT THE TREES IN THE VICINITY OF CONSTRUCTION ARE PROTECTED FROM INJURY (COST INCIDENTAL TO PROJECT).

4.) CONTRACTOR SHALL AVOID UNCOVERING EXISTING WATERLINES UNLESS ABSOLUTELY NECESSARY. UNCOVERING SHALL BE DONE ONLY IN THE PRESENCE OF A WATER DEPARTMENT ENGINEER.

5.) CONTRACTOR SHALL HAVE THE OPTION OF INSTALLING PRE-CAST TYPE 1A CURB INLET IN LIEU OF THE BRICK TYPE STRUCTURE. SEE STANDARD DETAIL PRE-CAST TYPE 1A CURB INLET DATED AUGUST, 1979.

6.) CONTRACTOR TO CONTACT DALE COOPER, ROBBINS REALTY, AT 522-1587, TO DETERMINE WHICH TREES WITHIN POND SITE ARE TO BE SAVED AND WHICH TREES CAN BE REMOVED.

7.) ALL EXCESS EXCAVATED MATERIAL IS TO REMAIN ON SITE. CONTRACTOR TO CONTACT DALE COOPER FOR LOCATION TO DISPOSE OF EXCESS MATERIAL. NO MATERIAL IS TO BE SPREAD WITHIN STREET RIGHT-OF-WAY.



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Scale: 1"=100'

Sheet No.	Index
1	Cover Sheet
2-4	SWS Plan & Profile
5	Detention Reservoir
6	Type IA Inlet
7	Cross Sections

THE CONTRACTOR SHALL BE RESPONSIBLE FOR PRESERVING PROPERTY MONUMENTS. THE CONTRACTOR SHALL BE REQUIRED TO RE-ESTABLISH ANY PROPERTY MONUMENTS WHICH ARE DAMAGED OR DESTROYED DURING CONSTRUCTION. ALL MONUMENTS SHALL BE RE-ESTABLISHED BY A LICENSED LAND SURVEYOR OR A LICENSED PROFESSIONAL ENGINEER IN ACCORDANCE WITH STATE LAWS.

LICENSED 8206 KANSAS

R.W. BRUGGEMAN, DIRECTOR OF ENGINEERING/
CITY ENGINEER
CITY OF WICHITA, KANSAS
PROJECT NO. 468 76 245 81088 000 000 001

DATE: _____

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Canal

Drainage

Riverside

15.75' Drainage Dedication

20' Utility Easement

MOSLEY

Set Back

15' Access & Maint. Esmt.

20' Utility Esmt.

Reserve "A"

Reserve "B"

Proposed Detention Reservoir

KTA Drainage Easement

Sta. 2+57, Paving Sta. 4+37.14 Rt.
Constr. Type 1A Curb Inlet
L=7'0", W=4'2", Top=81.45

Sta. 0+82.7, Remove Existing Headwall, Connect Pipe to Existing 48" Pipe, Encase Connection See Detail This Sheet

Sta. 2+96, Install 48" End Section

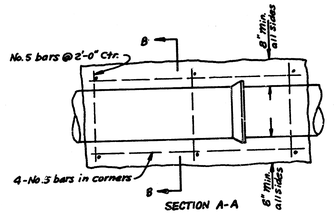
Install 65SY Type 3 Rip-rap

Sta. 2+16, Paving Sta. 4+32.14 Lt.
Constr. Type 1A Curb Inlet
L=7'0", W=4'2", Top=81.45

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

B.M. 83.575 City Std. B.M. Disc. Broadway & 55th St. S., 44' E & 52'S of ℄ Both.

B.M. 77.54 "a" SE cor. Conc. Headwall, E.Side Riverside Drainage Ditch 1800± N. of ℄ 55th St. South.



REINFORCED CONCRETE ENCASEMENT

Sta. 0+38.2 Existg. Headwall

Sta. 0+82.7 Remove Existg Hdwl. Connect Pipe to Existg pipe

Sta. 2+16 Constr. Type 1A Curb Inlet, L=7'0", W=4'2", Top=81.45

Sta. 2+57 Constr. Type 1A Curb Inlet, L=7'0", W=4'2", Top=81.45

Sta. 2+96 Install 48" End Sec.

133 LF of 48" RCP @ 0.30%
Alt. 133 LF of 48" CMP (fully paved) @ 0.30%

41 LF of 48" RCP @ 0.25%
Alt. 41 LF of 48" CMP (F.P.) @ 0.25%

39 LF of 48" RCP @ 0.25%
Alt. 39 LF of 48" CMP (F.P.) @ 0.25%

Proposed Finish Grade

Existg N. Bank.

Existg S Bank.

℄ Existg Ditch

DWS El = 80.7

DWS El. = 76.2

4:1 Slope

Proposed 42" RCP

Expanded 8' Apron

Eout = 71.5
Bot. = 72.8
Ein = 72.80
Eout = 72.80
Bot. = 72.80
Ein = 72.80
Eout = 73.00
Ein = 73.00

85
80
75
70

0
1
2
3

SNS No. 227, Line 1

2/7

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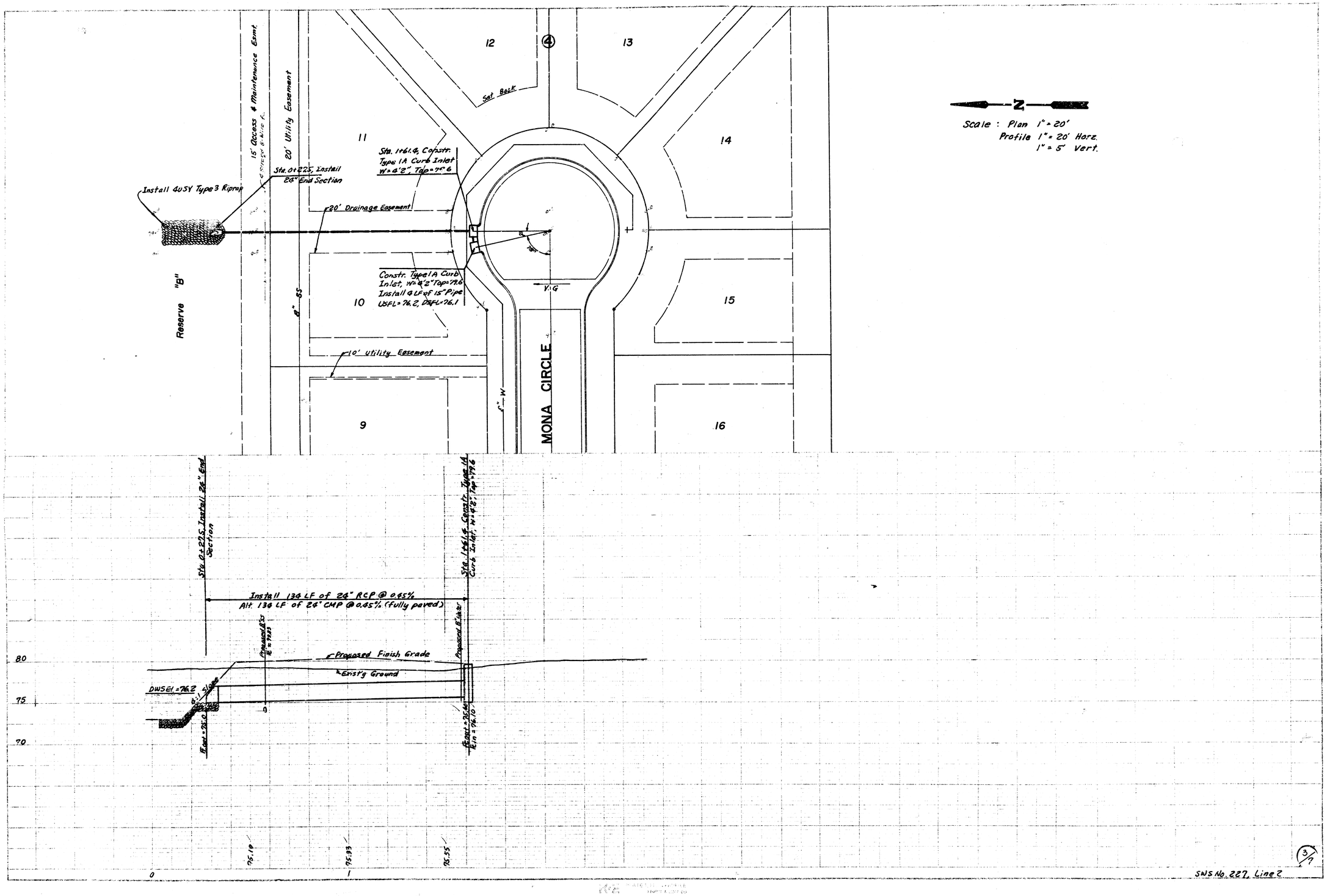

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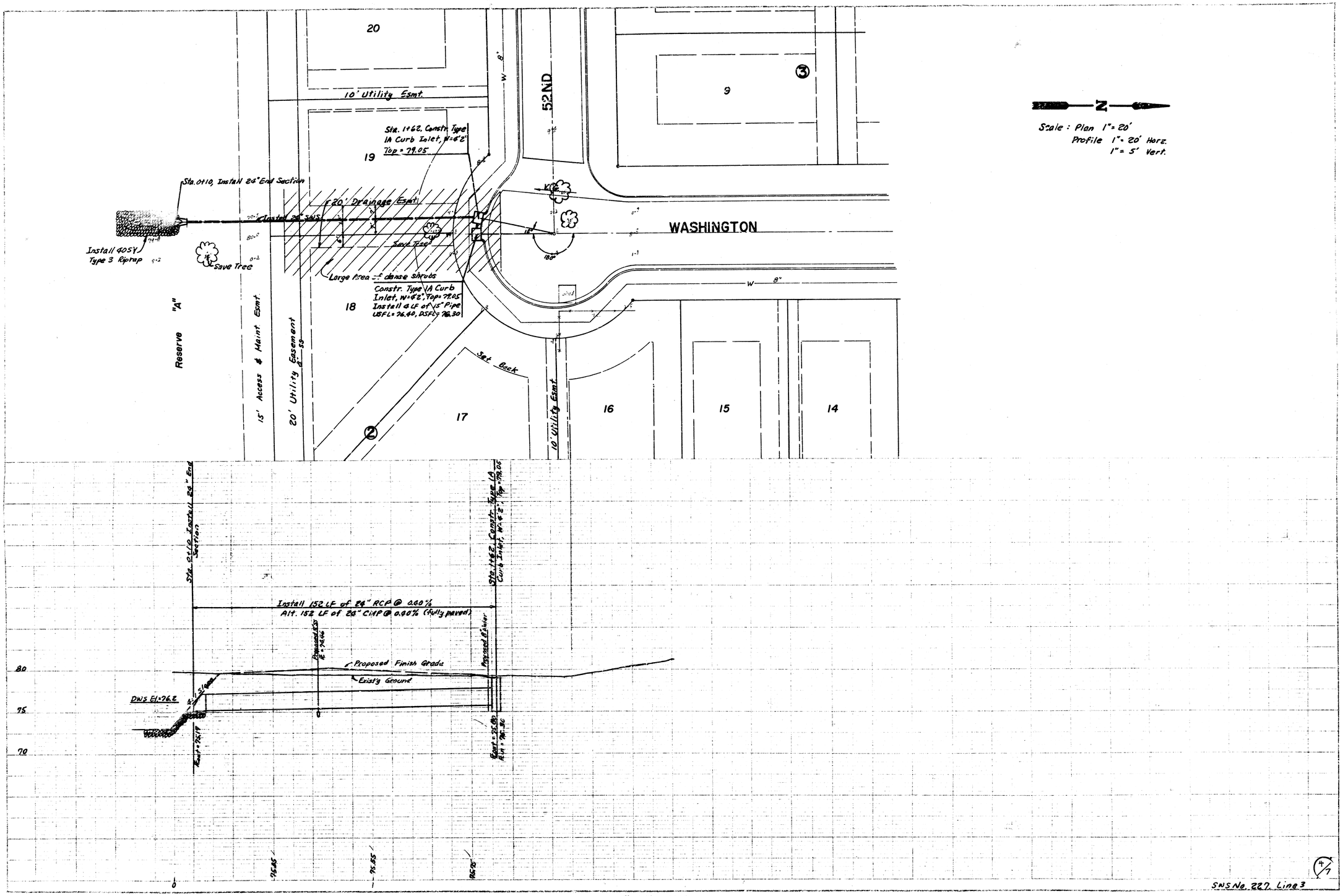

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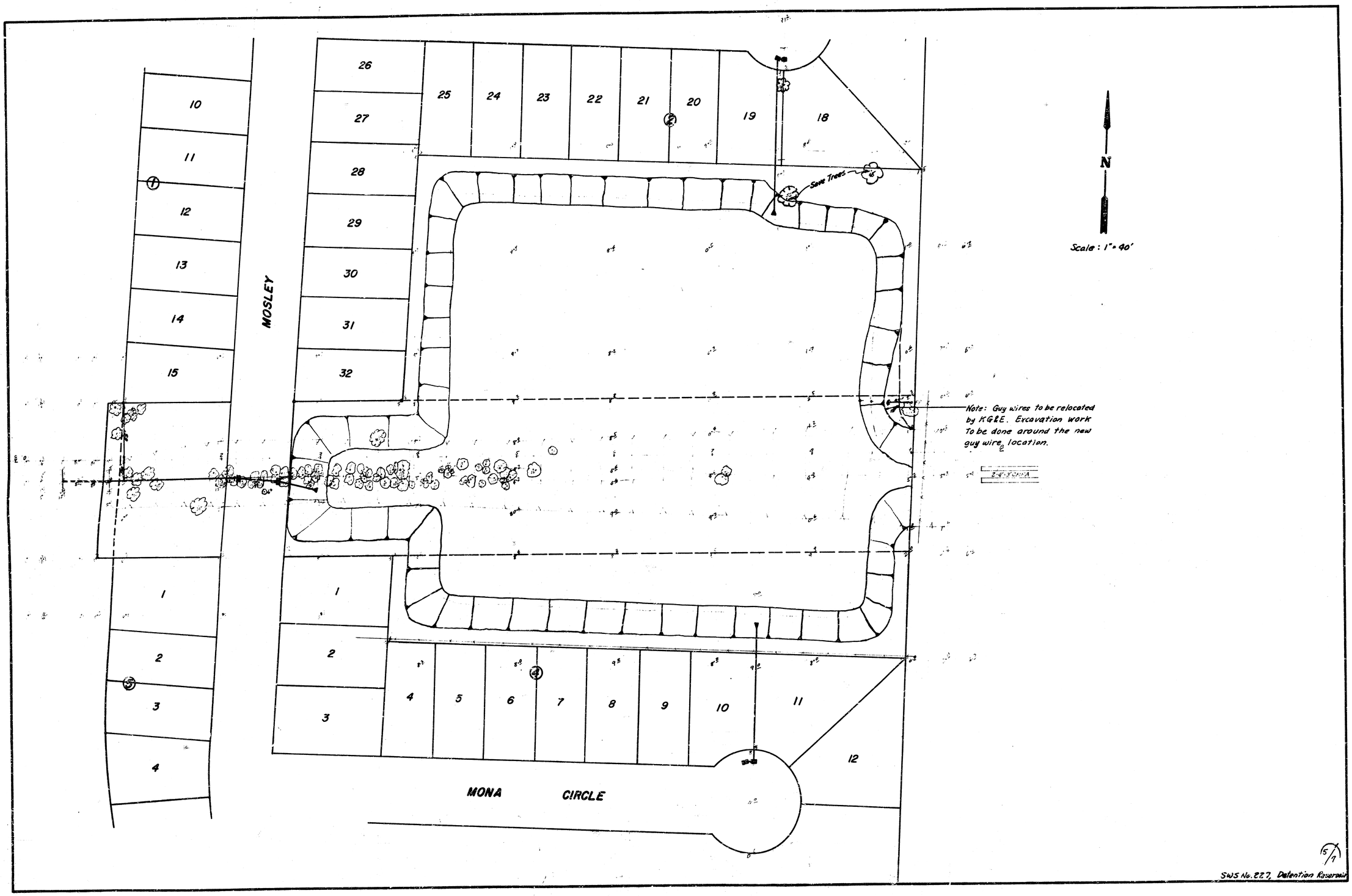

5/7

SWS No. 227, Detention Reservoir

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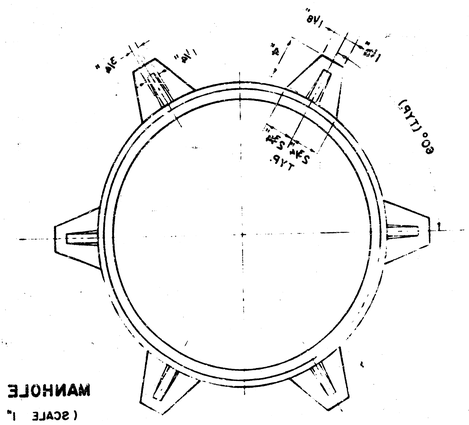
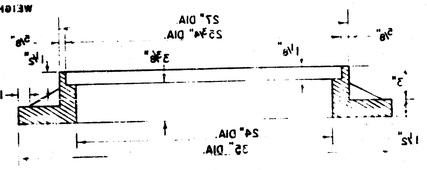
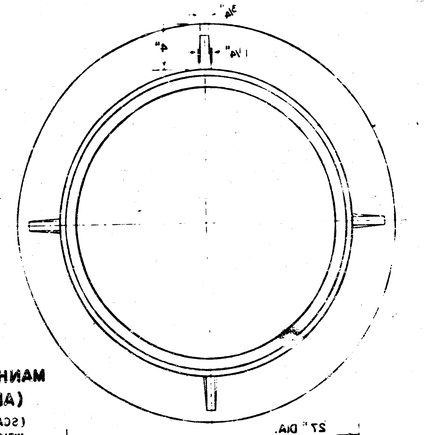
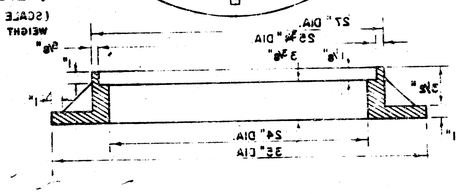


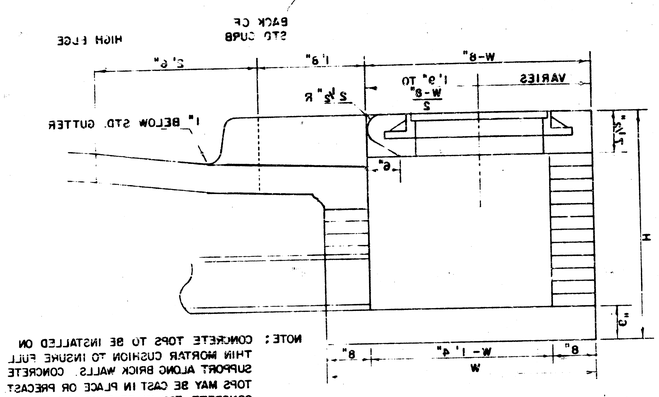
MANHOLE FRAME
(SCALE 1" = 6")
WEIGHT = 180 LBS.



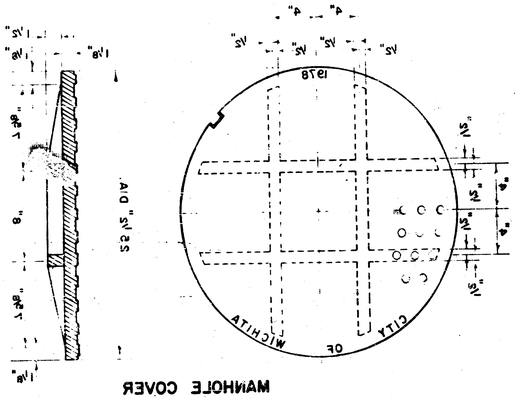


MANHOLE FRAME
(ALTERNATE)
(SCALE 1" = 6")
WEIGHT = 180 LBS.

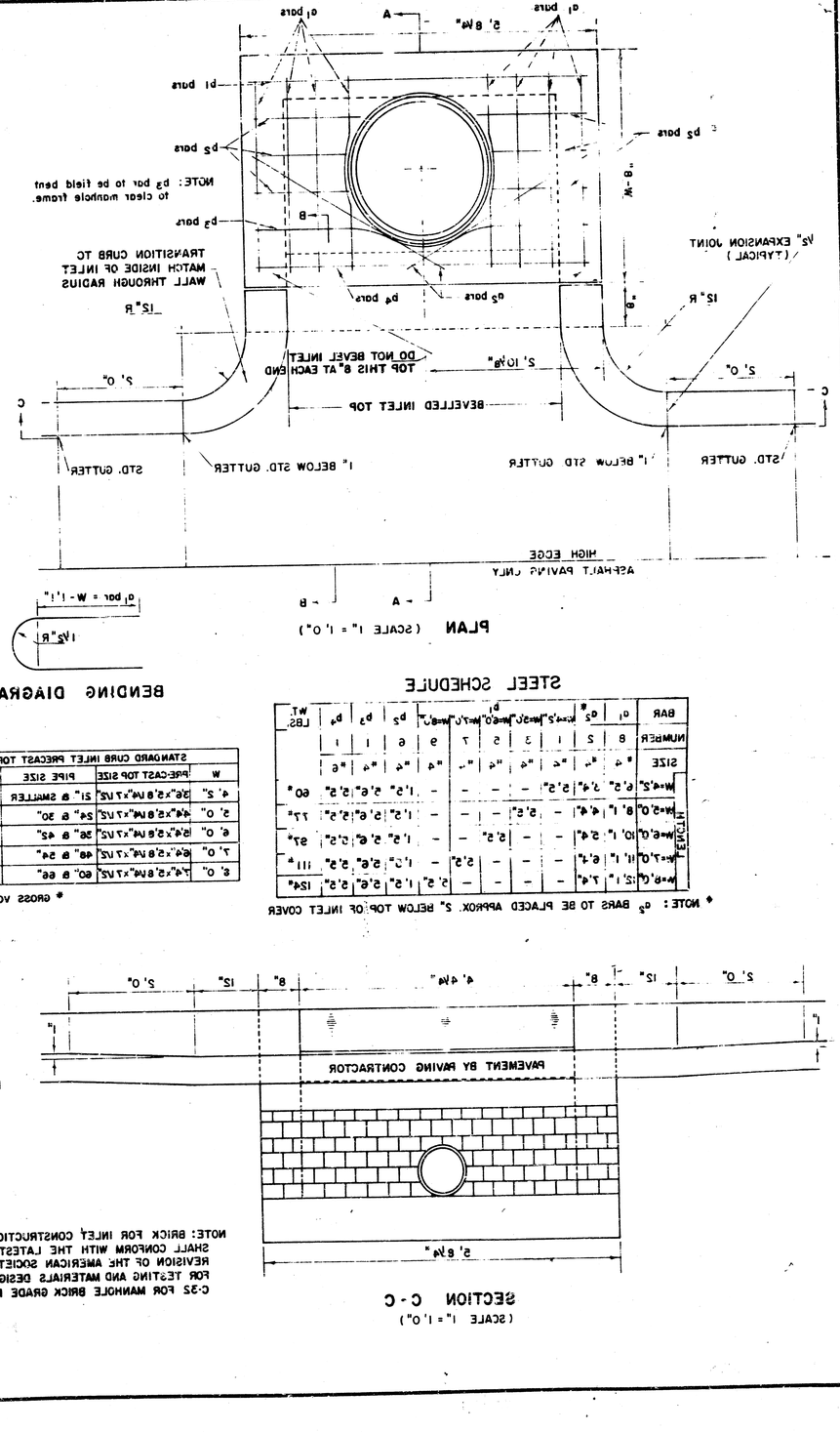




SECTION A-A
(SCALE 1" = 1'-0")



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



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

BENDING DIAGRAM

STEEL SCHEDULE

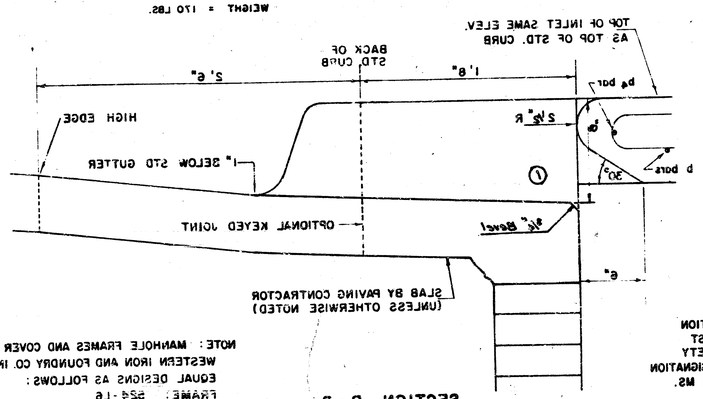
BAR	a_1	a_2*	b_1 W=4'-2"	b_1 W=5'-0"	b_1 W=5'-10⅜"	b_1 W=6'-8"	b_2	b_3	b_4	WT. LBS.
NUMBER	8	2	1	3	5	7	9	6	1	1		
SIZE	#6	#6	#6	#6	#6	#6	#6	#6	#6	#6		
W=4'-2"	6'-5"	3'-4"	5'-5"	–	–	–	–	1'-5"	5'-6"	5'-5"	60°	
W=5'-0"	8'-1"	4'-4"	–	5'-5"	–	–	–	1'-5"	5'-6"	5'-5"	72°	
W=5'-10⅜"	10'-1"	5'-4"	–	–	5'-5"	–	–	1'-5"	5'-6"	5'-5"	84°	
W=6'-8"	11'-1"	6'-4"	–	–	–	5'-5"	–	1'-5"	5'-6"	5'-5"	111*	
W=8'-0"	13'-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

STANDARD CURB INLET PRECAST TOPS

W	PRE-CAST TOP SIZE	PIPE SIZE	CU.YD. CONC.
4'-2"	5'-6"x3'-8"x7½"	21" & SMALLER	0.46 *
5'-0"	6'-6"x3'-8"x7½"	24" & 30"	0.57 *
6'-0"	6'-6"x3'-8"x7½"	36" & 42"	0.71 *
7'-0"	6'-6"x3'-8"x7½"	48" & 54"	0.84 *
8'-0"	7'-6"x3'-8"x7½"	60" & 66"	0.97 *

* CROSS VOLUME



SECTION B - B
(SCALE 1" = 6")

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

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 "MOBBY"

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.

DETAIL STANDARD TYPE IA CURB INLET

CITY OF WICHITA, KANSAS

R.W. BRUDEMAN, DIRECTOR OF ENGINEERING/
CITY ENGINEER

JUNE, 1981

① Rev. 8-19-81

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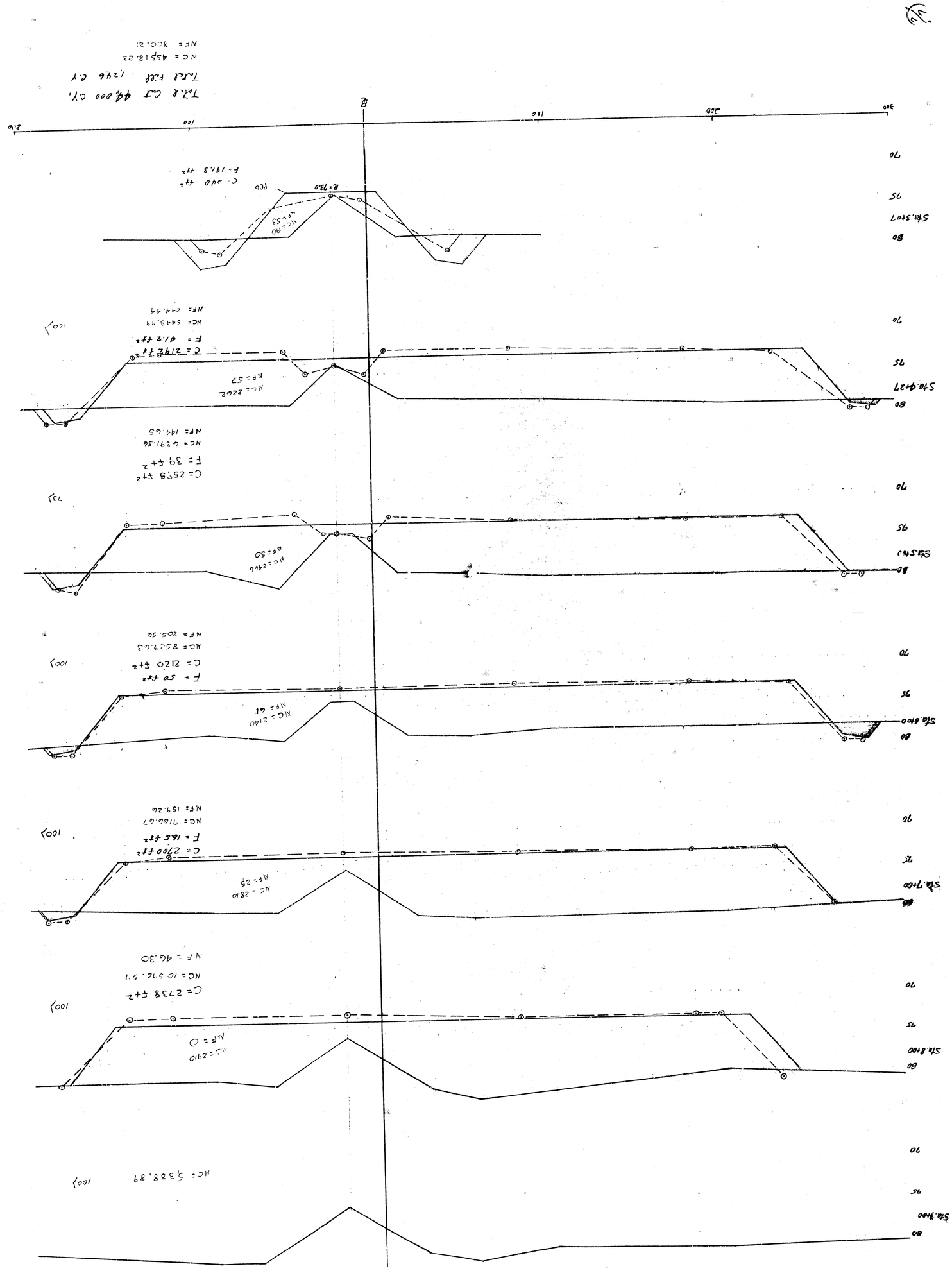

Total Cut 44,000 C.Y.
Total Fill 1,246 C.Y
NC = 45518.23
NF = 800.21
Sta.3+07
Sta.4+27
Sta.5+40
Sta.6+00
Sta.7+00
Sta.8+00
Sta.9+00
NC = 5388.89
NC = 2910
NF = 0
NC = 2810
NF = 25
NC = 2140
NF = 61
NC = 2440
NF = 50
NC = 2262
NF = 57
NC = 2810
NF = 53