

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

STORM WATER SEWER

IN

GOLDEN HILLS 5TH ADDITION

CITY OF WICHITA PROJECT NO. 468-76-245-80001-000-000-161

SHEET NO.	TOTAL SHEETS
1	13

INDEX OF SHEETS

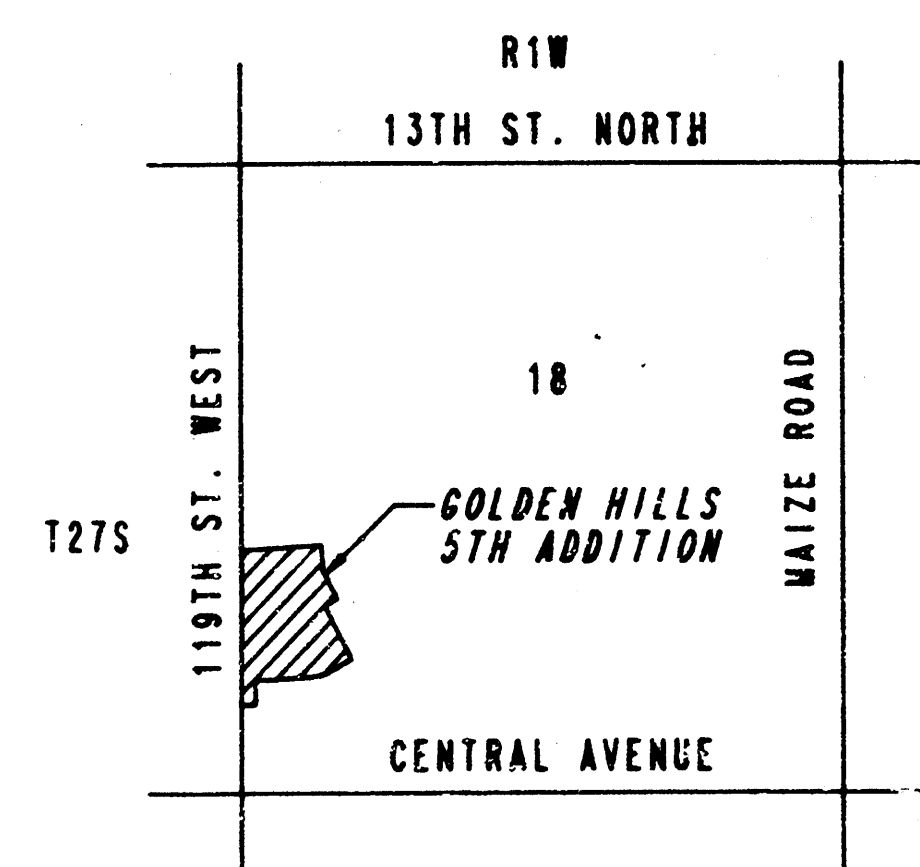
1. TITLE SHEET
2. PLAT
- 3.-6. LINE NO. 1 PLAN/PROFILE
7. LINE NO. 2 PLAN/PROFILE
8. HEADBALL AND RIPRAP DETAILS
9. REINFORCED CONCRETE MANHOLE DETAILS
10. STD. TYPE 1A CURB INLET DETAILS (11'-4")
11. STD. TYPE 1A CURB INLET DETAILS (8'-4")
12. SPECIAL TYPE 1A CURB INLET DETAILS
13. STD. MANHOLE RING AND COVER DETAILS

PROJECT SURVEY CONTROL

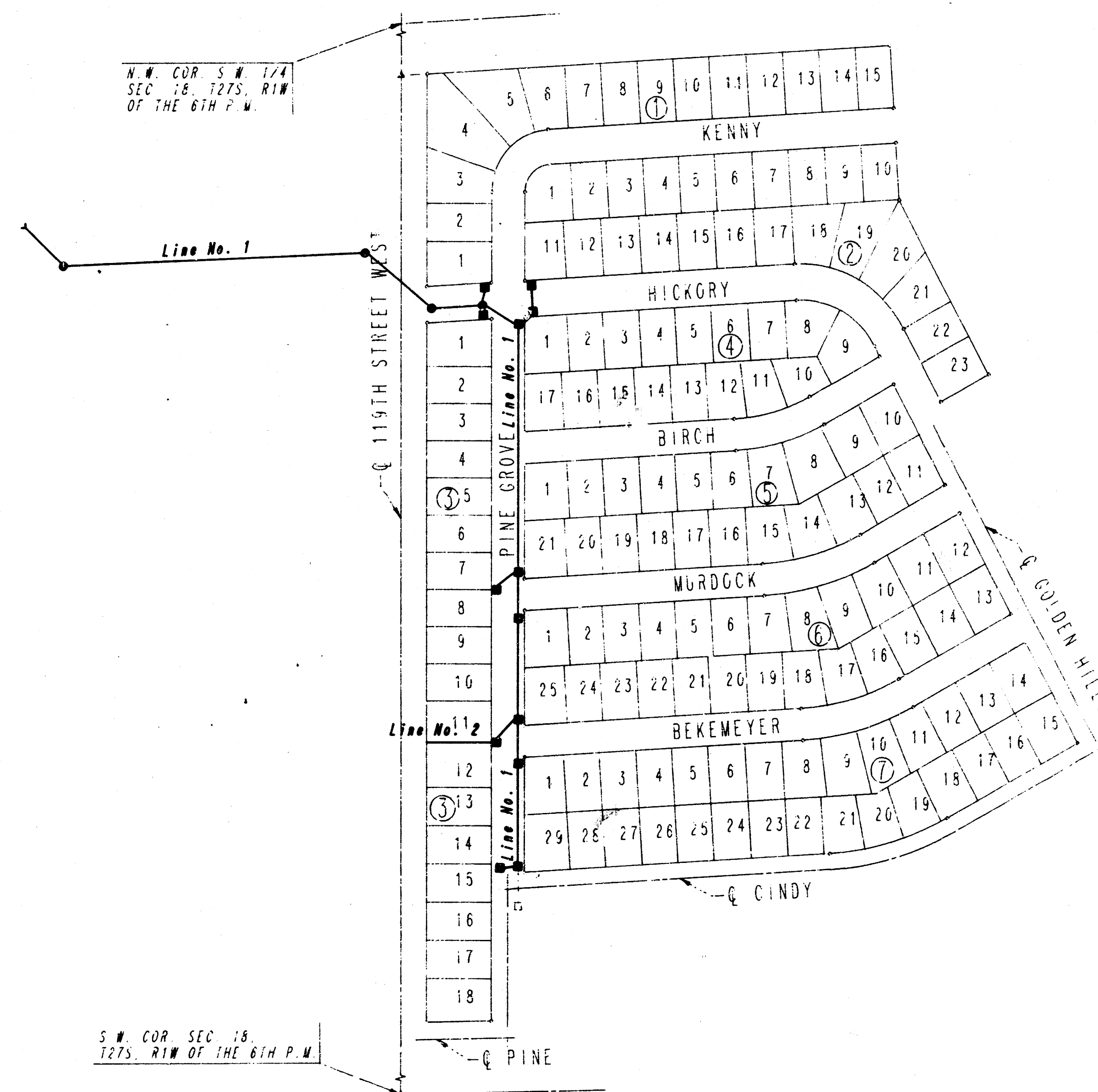
CITY OF WICHITA DATUM

DATUM BENCH MARK: CITY OF WICHITA BENCH MARK DISC 40" EAST AND 40" SOUTH OF INTERSECTION OF Q'S CENTRAL AND 119TH STREET WEST. ELEV. = 150.93

BENCH MARK: 8" SPIKE IN NW FACE 18" CEDAR ON SOUTH SIDE CENTRAL AT GOLDEN HILLS STREET. ELEV. = 160.27



VICINITY MAP



GENERAL NOTE.

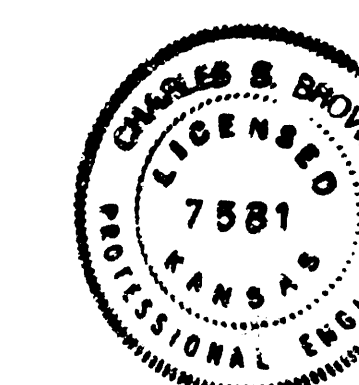
1. UNDERGROUND UTILITY SERVICE LINES AND OVERHEAD UTILITY POLE LINES ARE TO BE ADJUSTED AS NECESSARY BY OTHERS PRIOR TO CONSTRUCTION UNLESS THE PLANS SPECIFICALLY CALL FOR THEIR ADJUSTMENT BY THE CONTRACTOR. EXISTING UTILITIES AND THEIR LOCATION, AS SHOWN ON THE PLANS, REPRESENT THE BEST INFORMATION 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.
2. RUBBLE FROM THE REMOVAL OF MISCELLANEOUS STRUCTURES AND EXCESS EXCAVATION WHICH IS TO BE WASTED SHALL BE DISPOSED OF ON SITES TO BE PROVIDED BY THE CONTRACTOR. THESE SITES SHALL BE APPROVED BY THE ENGINEER AS TO SUITABILITY, APPEARANCE AND SITE LOCATION. LOCATIONS THAT, IN THE OPINION OF THE ENGINEER, WILL LEAVE AN UNSIGHTLY APPEARANCE WILL NOT BE APPROVED.
3. CONTRACTOR SHALL SATISFY HIMSELF OF SUBSURFACE CONDITIONS PRIOR TO CONSTRUCTION.
4. TREES AND SHRUBS IN PUBLIC RIGHT-OF-WAY WHICH ARE IN DIRECT CONFLICT WITH PROPOSED NEW CONSTRUCTION SHALL BE REMOVED BY THE CONTRACTOR WITH THE ENGINEER'S APPROVAL. TREES AND SHRUBS WHICH ARE NOT IN DIRECT CONFLICT WITH PROPOSED NEW CONSTRUCTION SHALL BE SAVED AND PROTECTED FROM DAMAGE.
5. THE CONTRACTOR SHALL GIVE ALL PROPERTY OWNERS AND/OR TENANTS OF DEVELOPED PROPERTY DIRECTLY ADJUTING THE CONSTRUCTION OF THIS PROJECT A MINIMUM OF TEN (10) DAYS ADVANCE NOTICE PRIOR TO START OF CONSTRUCTION.
6. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PRESERVING PROPERTY IRONS. THE CONTRACTOR WILL BE REQUIRED TO RE-ESTABLISH ANY PROPERTY IRONS WHICH ARE DAMAGED OR DESTROYED BY HIS CONSTRUCTION OPERATIONS. SUCH IRONS SHALL BE RE-ESTABLISHED BY A LICENSED LAND SURVEYOR OR A LICENSED PROFESSIONAL ENGINEER IN ACCORDANCE WITH STATE LAWS.
7. CONTRACTOR WILL BE REQUIRED TO PROVIDE A MINIMUM ADVANCE NOTICE OF TWENTYFOUR (24) HOURS TO UTILITY COMPANIES PRIOR TO STARTING ANY EXCAVATION AS FOLLOWS:
SOUTHWESTERN BELL TELEPHONE COMPANY 1-316-571-2611
CABLEVISION 262-4270 OR 263-2081
KPL GAS SERVICE 263-7511
KANSAS GAS & ELECTRIC 264-1141
CITY OF WICHITA WATER DEPARTMENT 268-4008
CITY OF WICHITA SEWER DEPARTMENT 268-4671
ARLKA GAS COMPANY 942-8350 OR 263-8161
8. 119TH STREET SHALL REMAIN OPEN TO TRAFFIC THROUGH CONSTRUCTION. DURING DAYLIGHT HOURS THE STREET SHALL BE REDUCED TO ONE-LANE WITH TRAFFIC CONTROLLED BY FLAGSMAN. DURING NON-WORKING HOURS, THE STREET MUST BE OPENED TO TWO-LANE, TWO-WAY TRAFFIC. ALL SIGNING AND BARRICADES NECESSARY TO PROPERLY CONTROL THE TRAFFIC SHALL BE IN ACCORDANCE WITH THE "MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES", LATEST EDITION.

NOTE TO CONTRACTOR

THIS PROJECT WILL BE CONSTRUCTED UNDER THE SUPERVISION OF THE CITY ENGINEER AND CONFORMING TO THE SPECIFICATIONS OF THE CITY OF WICHITA. THE CONTRACTOR WILL PAY THE CITY OF WICHITA FOR ALL COSTS OF PLAN REVIEW, INSPECTION AND BOOKING PER CONTRACT.

APPROVED AS NOTED
BY CITY ENGINEER OF WICHITA

SANITARY SEWERS _____
STORM SEWERS VRH 4/4/88
DRIVEWAY APPROACHES _____
WATER MAINS _____
PAVING _____



MARCH, 1988
PLANS PREPARED BY
PROFESSIONAL ENGINEERING CONSULTANTS, P.A.
ENGINEERS
WICHITA, KANSAS

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GOLDEN HILLS 5TH ADDITION

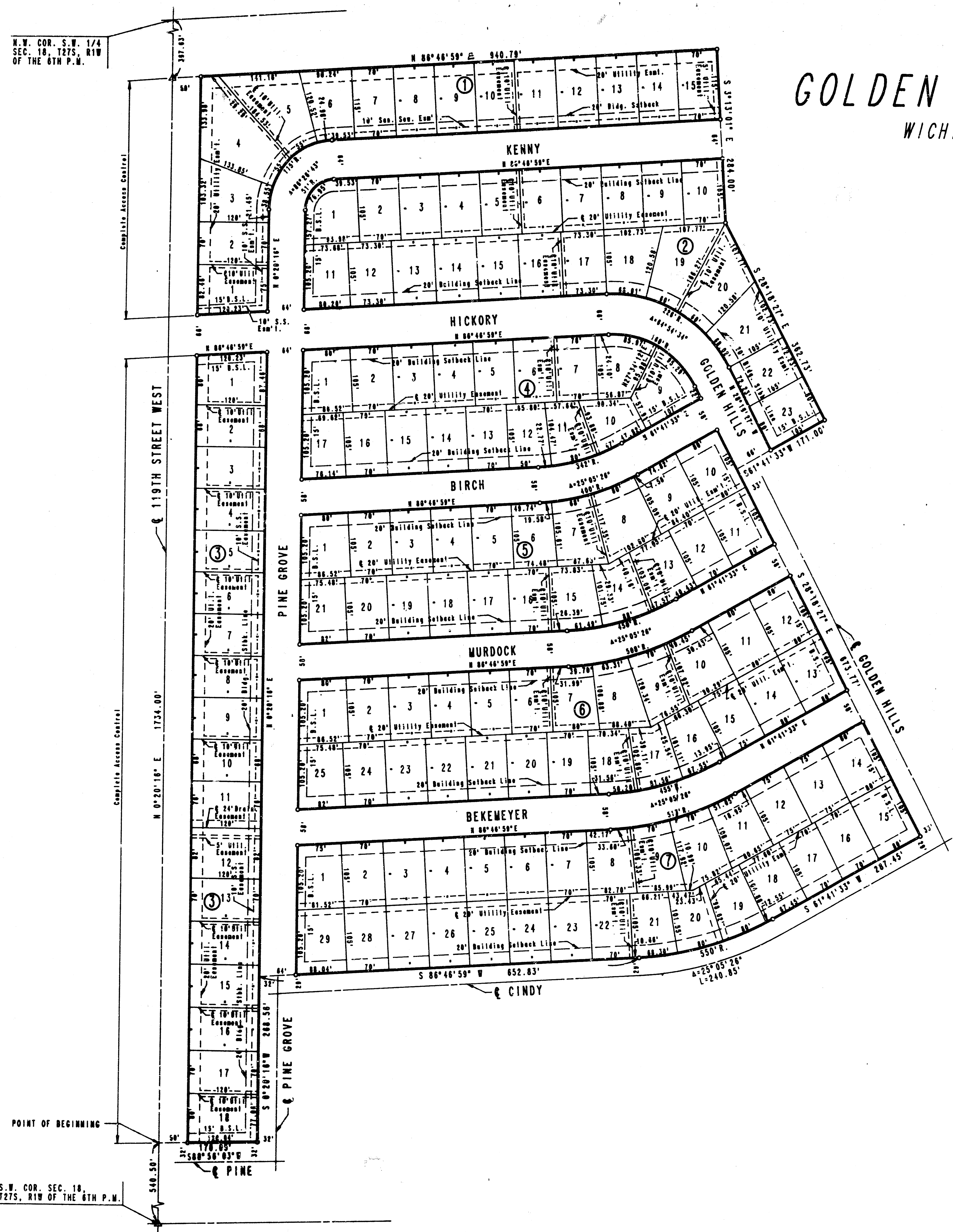
WICHITA, SEDGWICK COUNTY, KANSAS

SCALE: 1" = 100'
O = IRON SET

B.S.L. - BUILDING SETBACK LINE
D.M. - CITY OF WICHITA STD. D.M. DISC
40 FT. EAST AND 40 FT. SOUTH OF
INTERSECTION OF CENTERLINES OF
CENTRAL AND 119TH STREET WEST.
ELEV. +156.93 CITY DATUM

N.W. COR. S.W. 1/4
SEC. 18, T27S, R1W
OF THE 6TH P.M.

S.W. COR. SEC. 18,
T27S, R1W OF THE 6TH P.M.

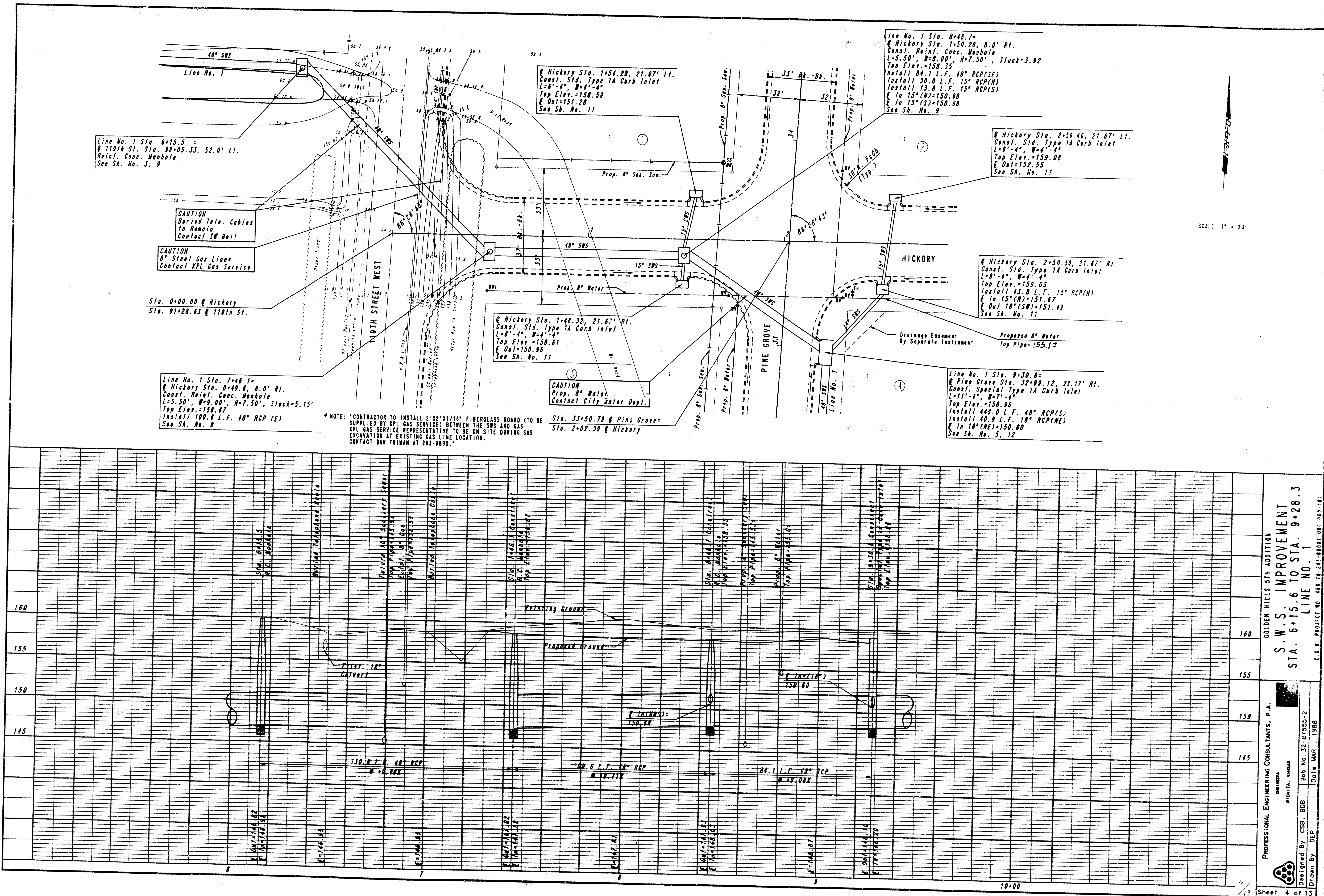


PLAT

PROFESSIONAL ENGINEERING CONSULTANTS, P.A.

ENGINEER
A. J. KANDEL
DESIGNED BY
CHECKED BY
DATE MAY 1952

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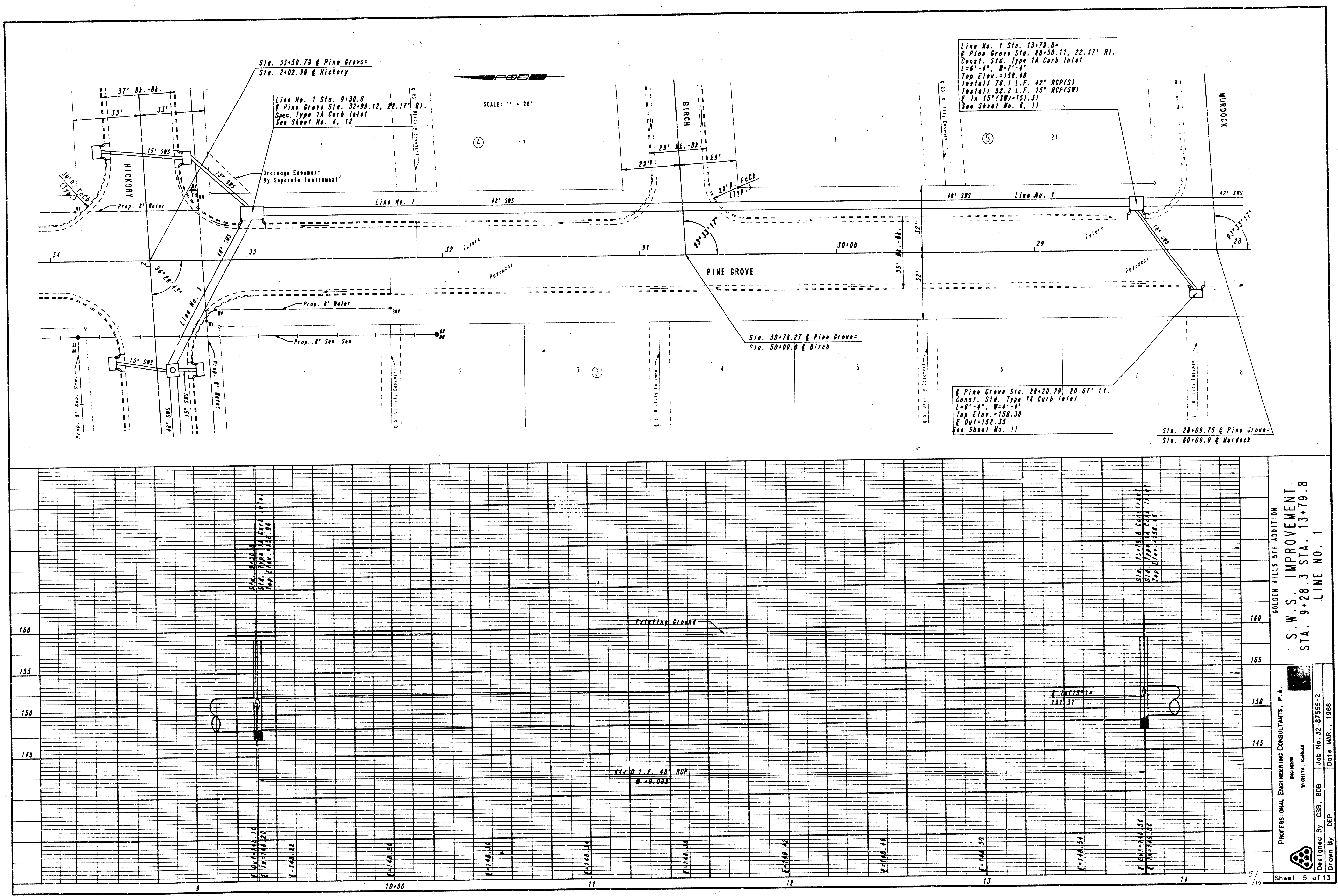


GOLDEN HILLS 5TH ADDITION
S.W.S. IMPROVEMENT
 STA. 6+15.6 TO STA. 9+28.3
 LINE NO. 1
 C.O.W. PROJECT NO. 448-78-245-0001-000-000-141

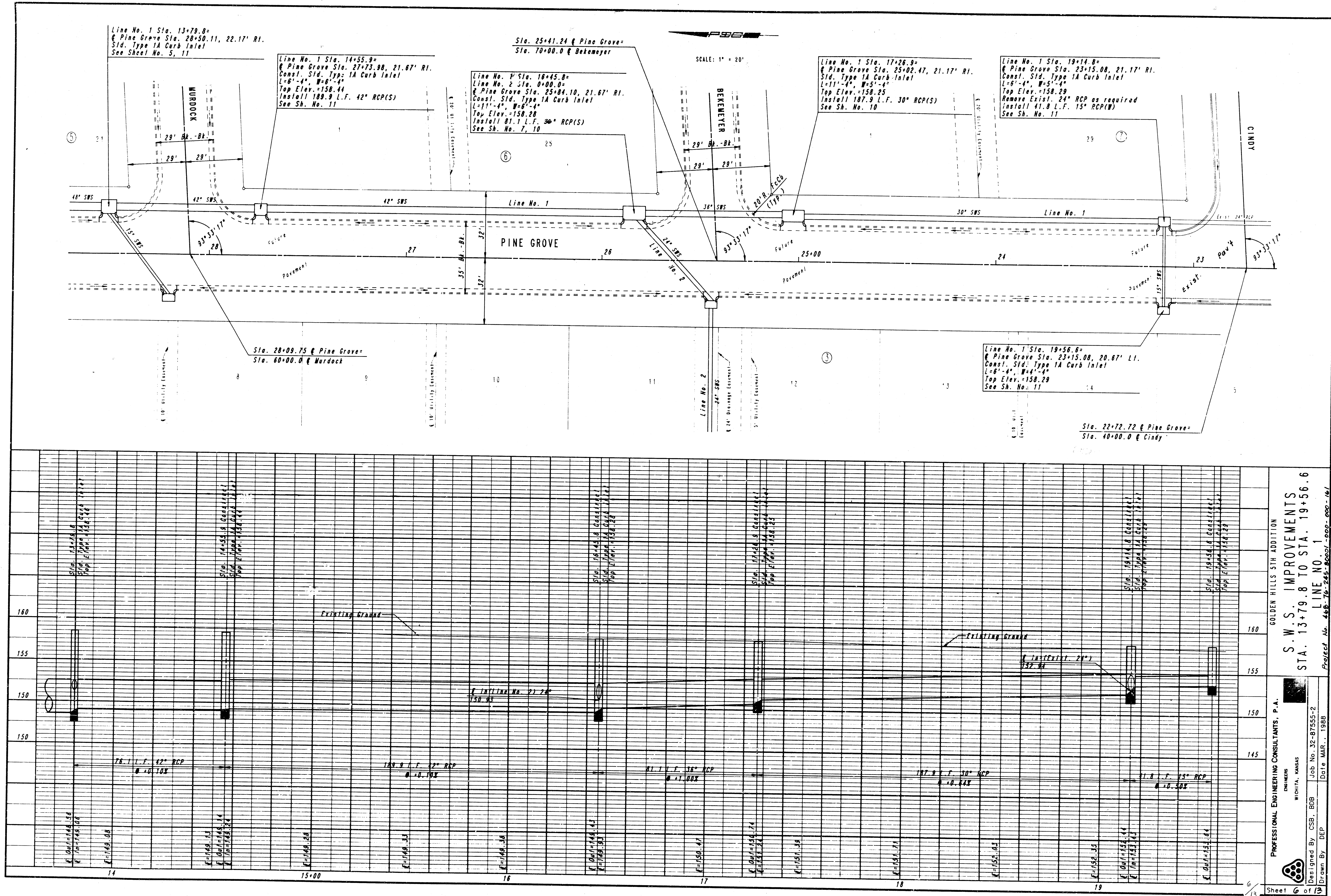
PROFESSIONAL ENGINEERING CONSULTANTS, P.A.
 ENGINEERS
 WICHITA, KANSAS
 Designed By: CSB, BOB
 Drawn By: DEP
 Job No. 32-07555-2
 Date: MAR., 1988

Sheet 4 of 13

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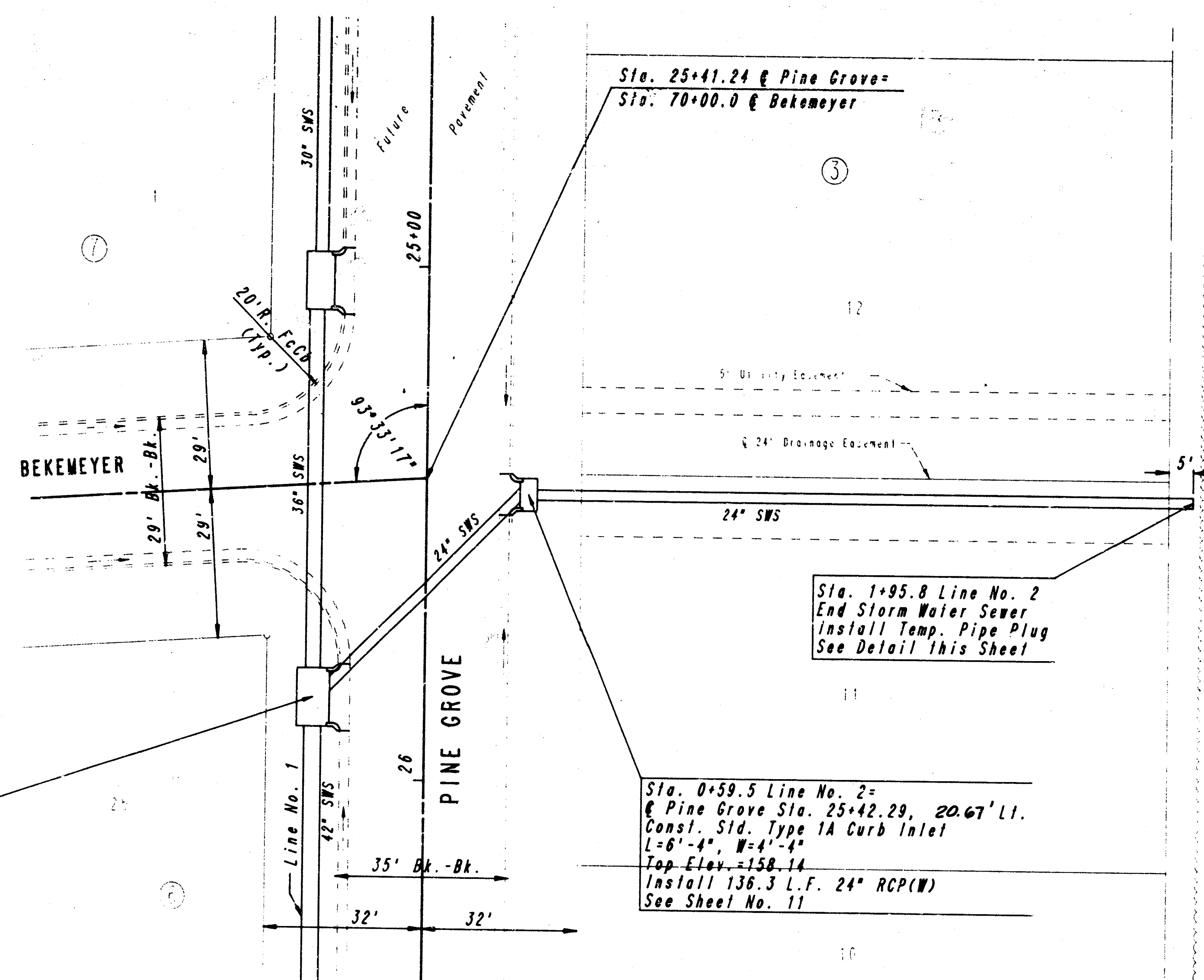
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SCALE: 1" = 20'

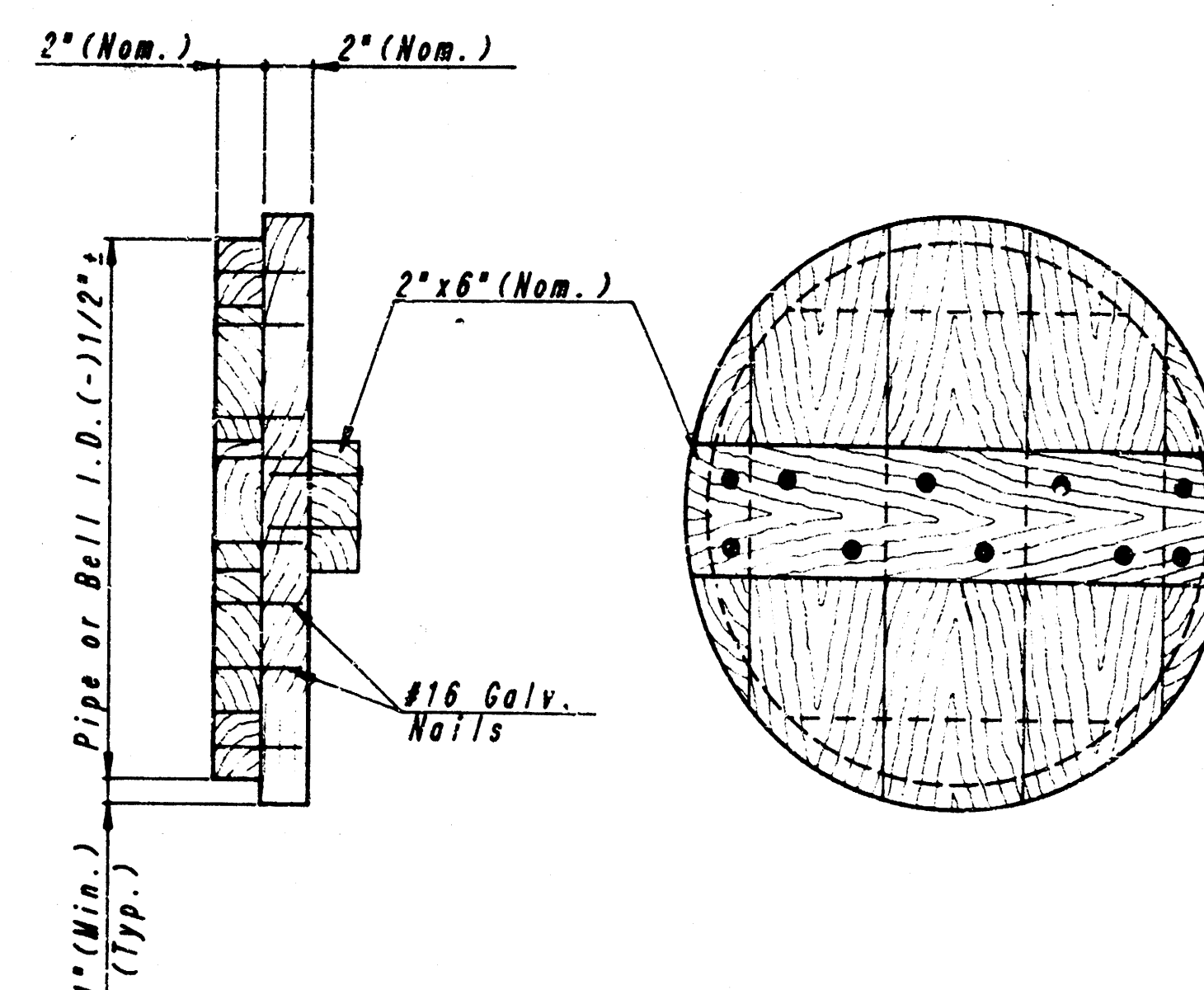
Sta. 0+00.0 Line No. 2=
Sta. 16+45.3 Line No. 1=
Pine Grove Sta. 25+84.10, 21.67' RI.
Std. Type 1A Curb Inlet
Top Elev. = 158.20
Install 59.5 L.F. 24" RCP(SW)
See Sheet No. 6, 10



Sta. 1+95.8 Line No. 2=
End Storm Water Sewer
Install Temp. Pipe Plug
See Detail This Sheet

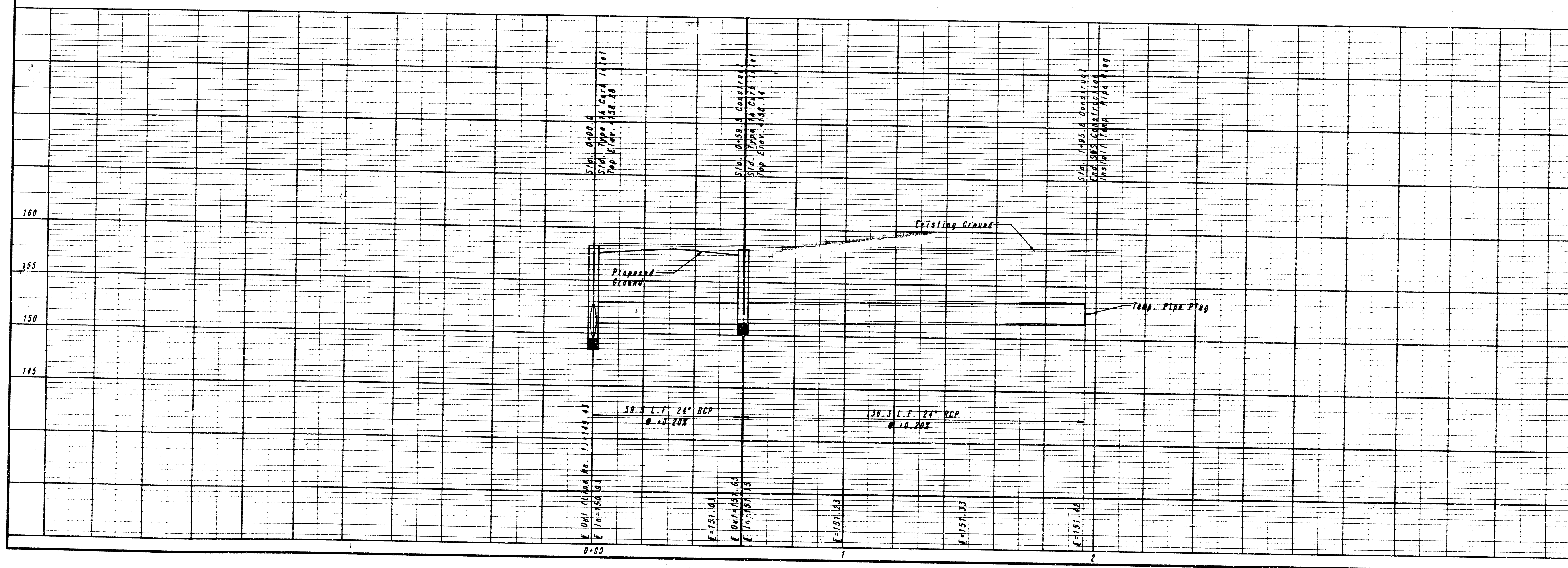
Sta. 0+59.5 Line No. 2=
Pine Grove Sta. 25+42.29, 20.67' LI.
Const. Std. Type 1A Curb Inlet
L=8'-4", W=4'-4"
Top Elev. = 158.14
Install 136.3 L.F. 24" RCP(W)
See Sheet No. 11

119TH STREET WEST



TEMPORARY REDWOOD PIPE PLUG DETAILS

THE FREE END OF ALL PIPE STUBS INSTALLED SHALL BE PLUGGED WITH A REDWOOD PLUG AS SHOWN. THE PLUGS SHALL BE CONSTRUCTED WITH CONSTRUCTION GRADE REDWOOD AND SECURELY NAILED TOGETHER WITH #16 GALVANIZED NAILS. PIPE PLUGS SHALL BE CONSIDERED SUBSIDIARY TO THE PIPE INSTALLATION.

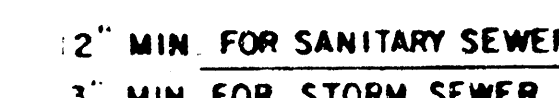
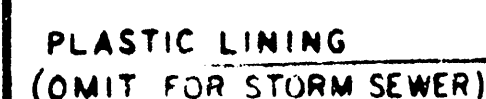


GOLDEN HILLS 5TH ADDITION
S.W.S. IMPROVEMENT
STA. 0+00.0 TO STA. 1+95.8
LINE NO. 2

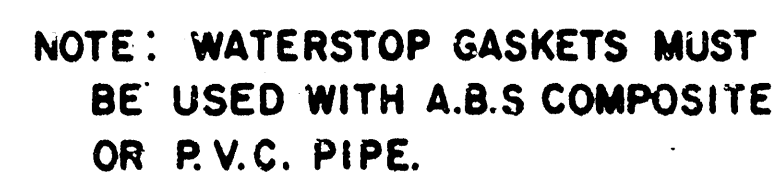
PROFESSIONAL ENGINEERING CONSULTANTS, P.A.
DESIGNED BY CSB, BDB
DRAWN BY DEP
Job No. 32-87555-2
Date MAR., 1988

Sheet 7 of 13

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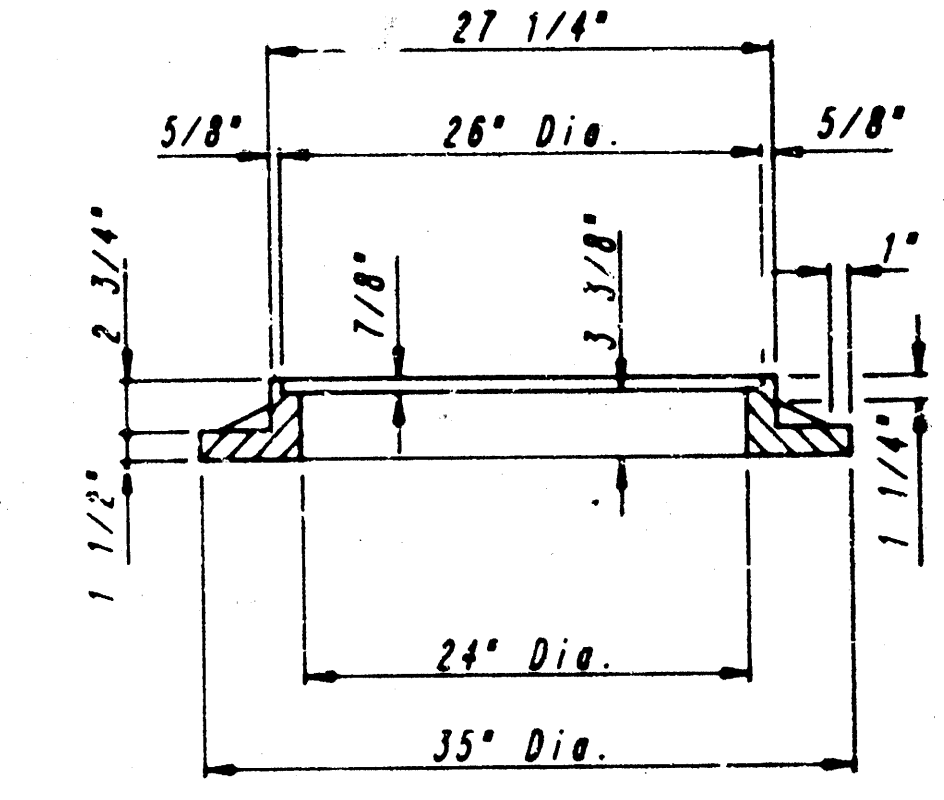
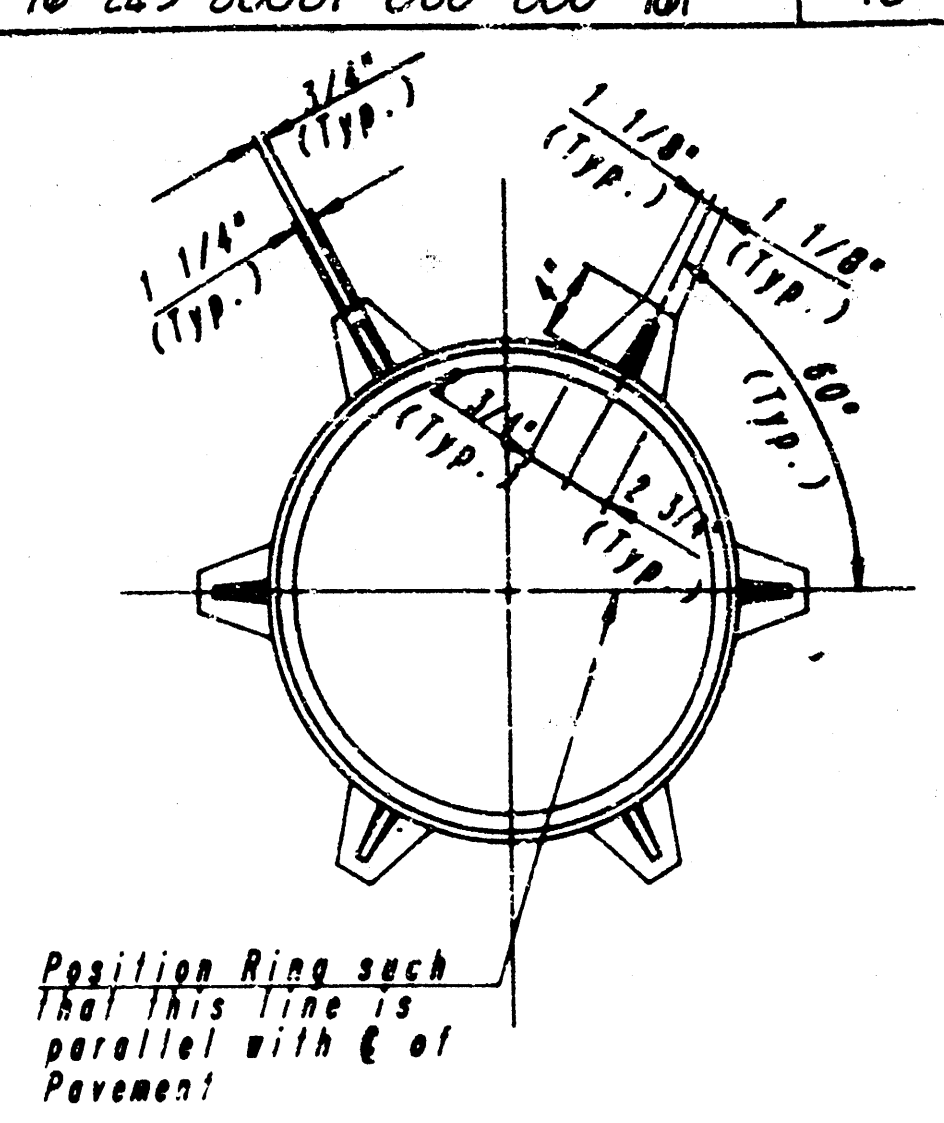
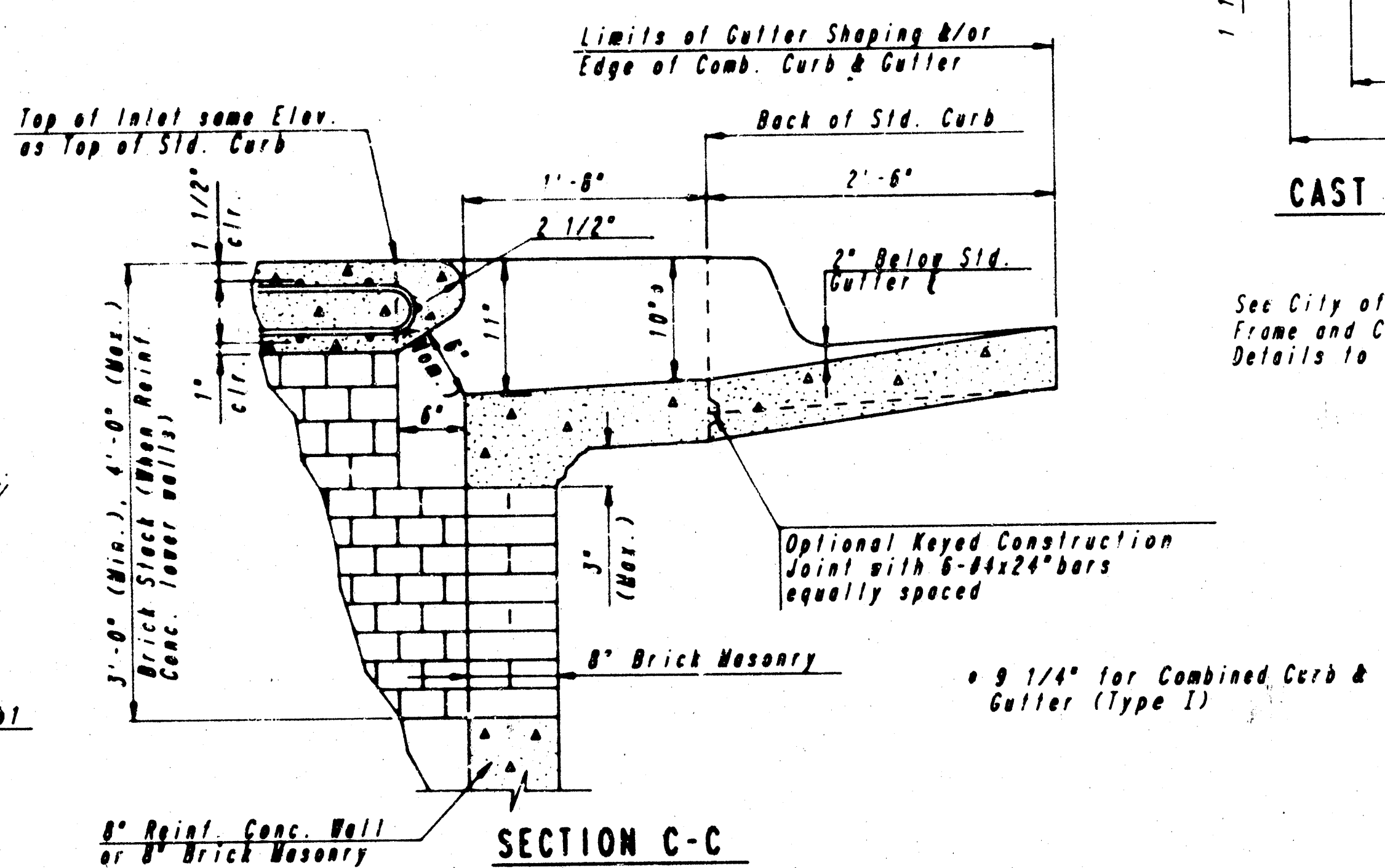
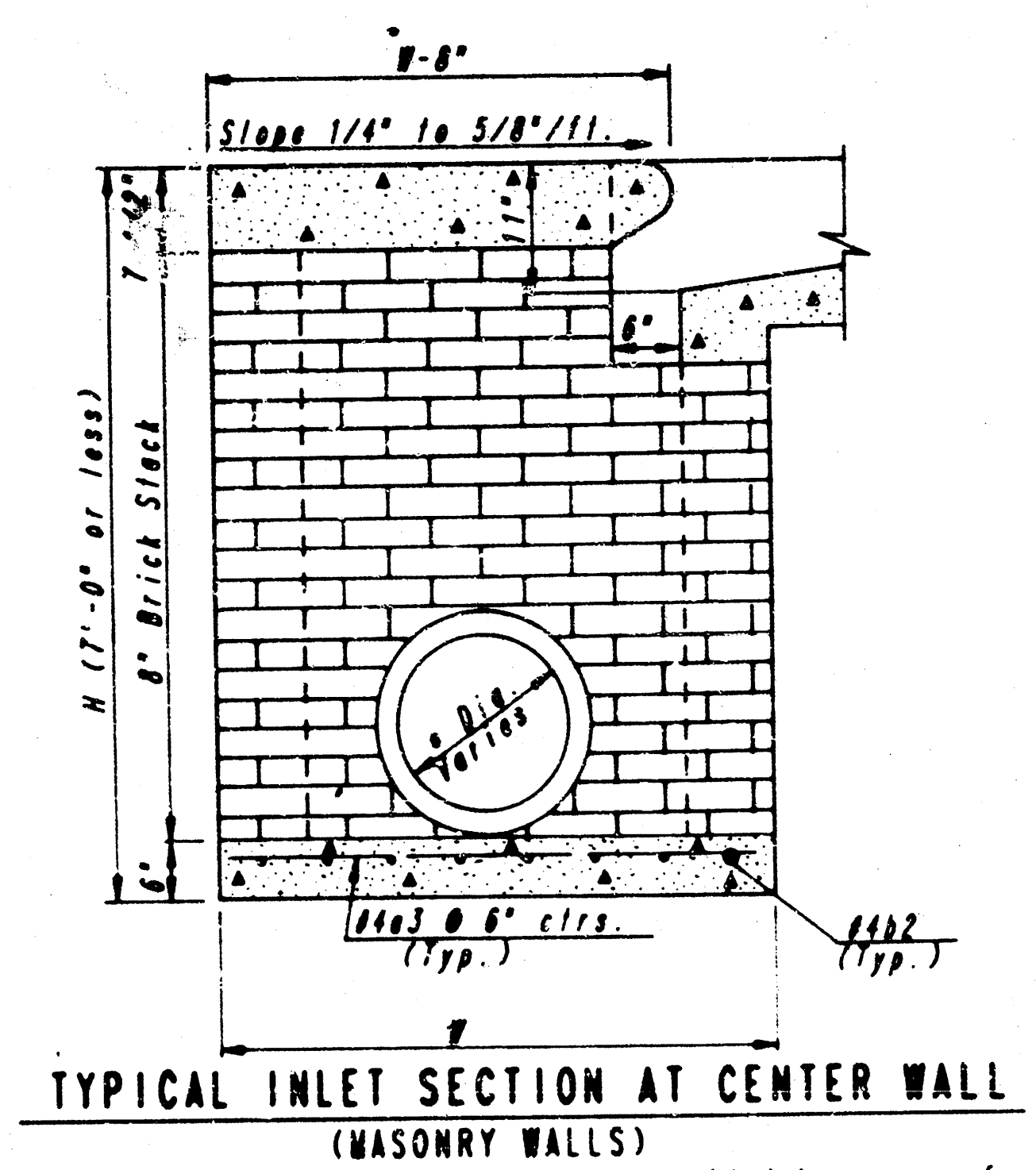
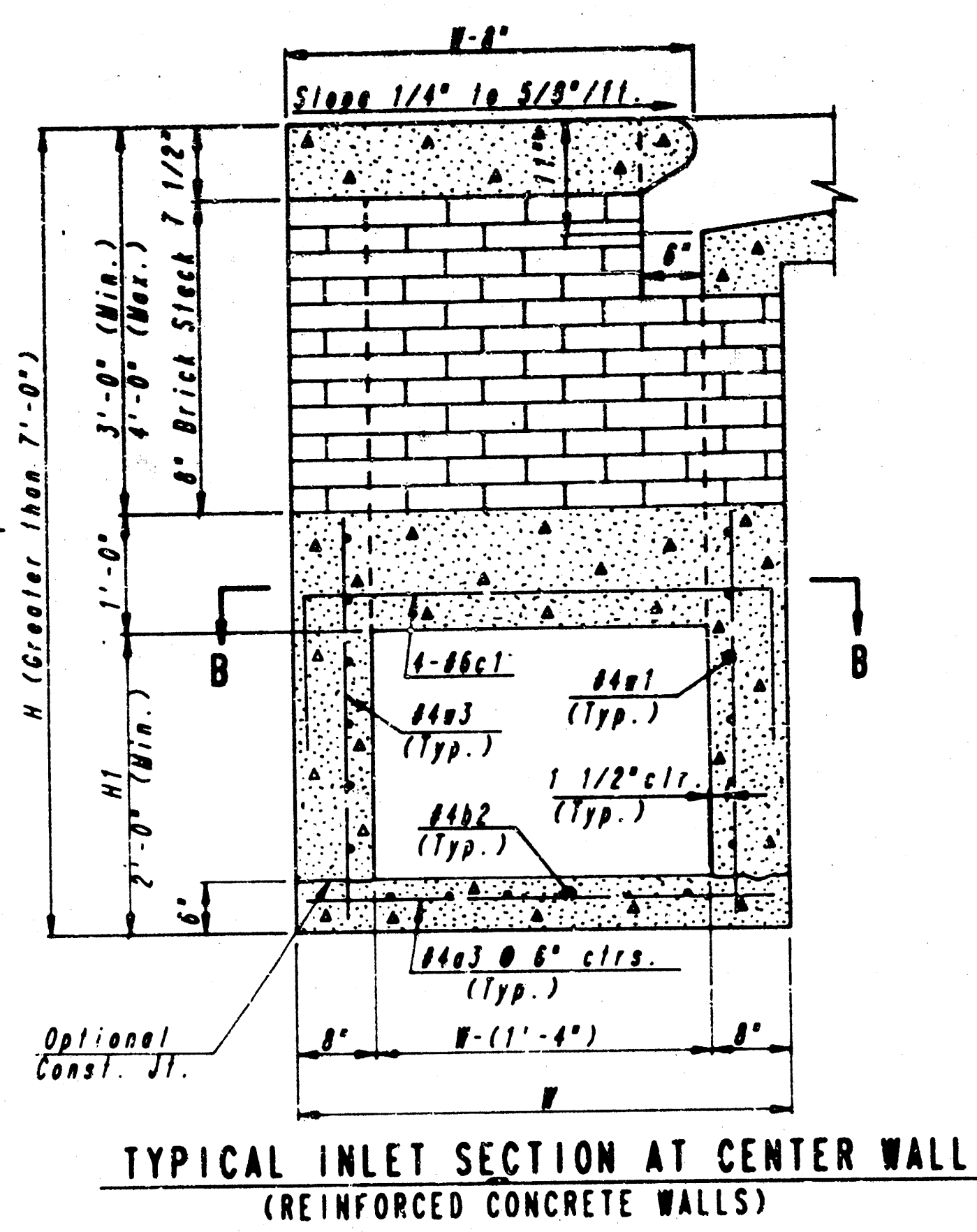
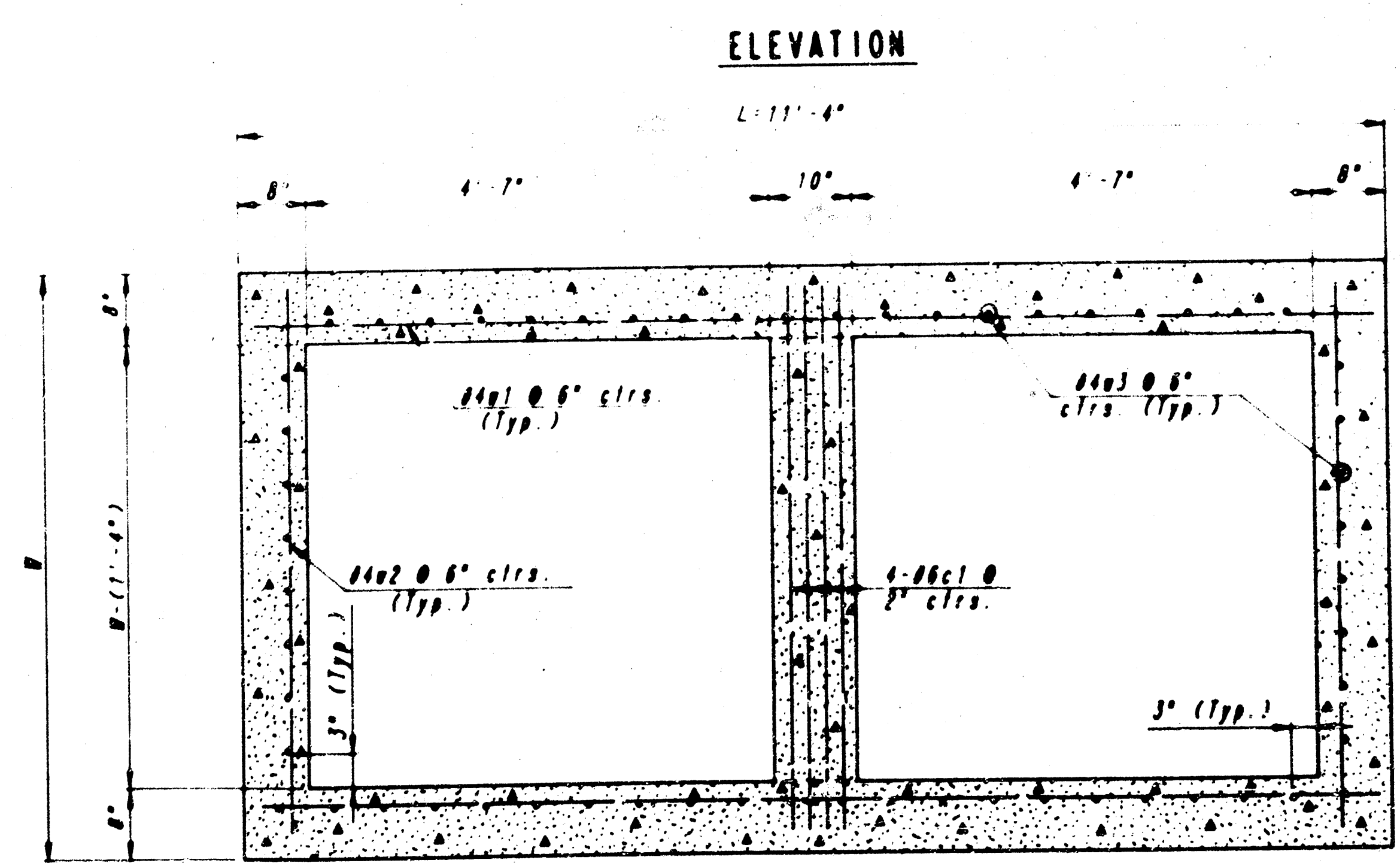
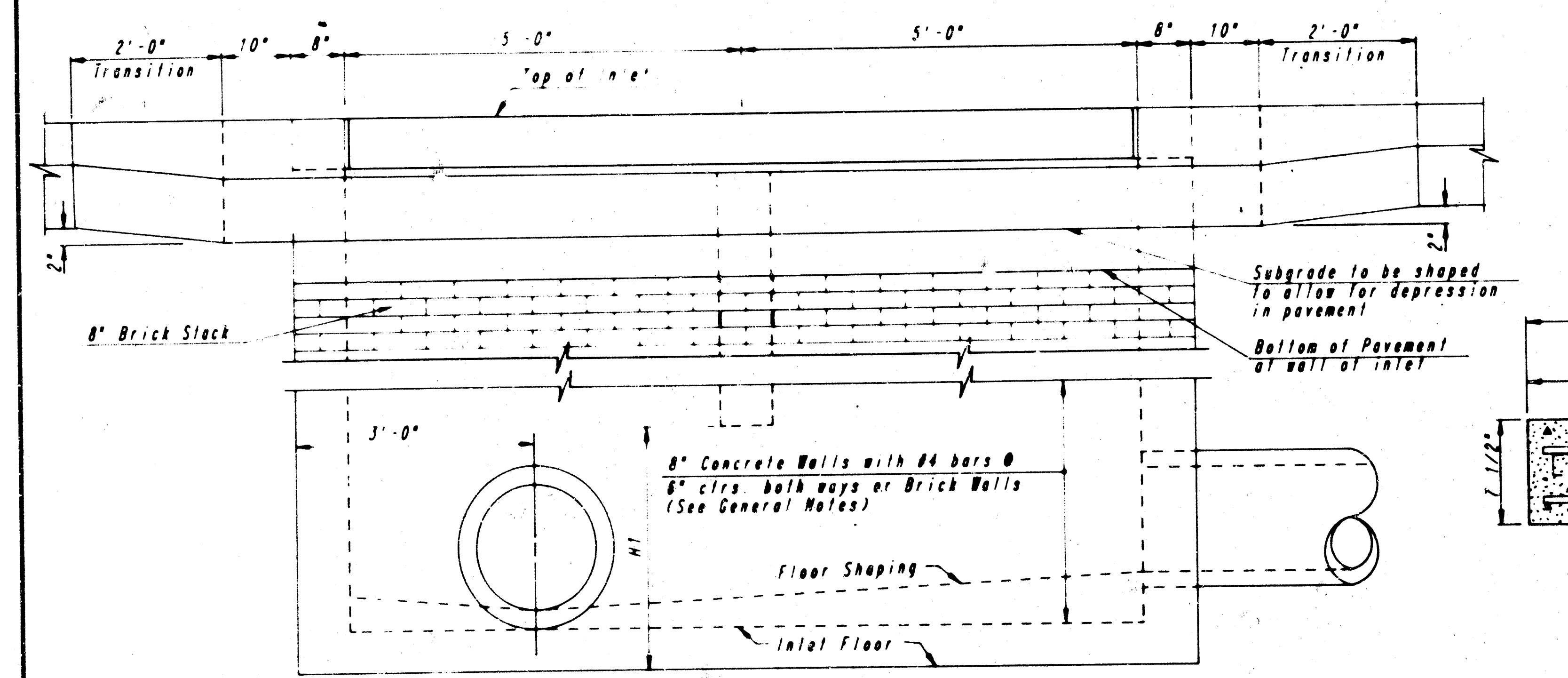
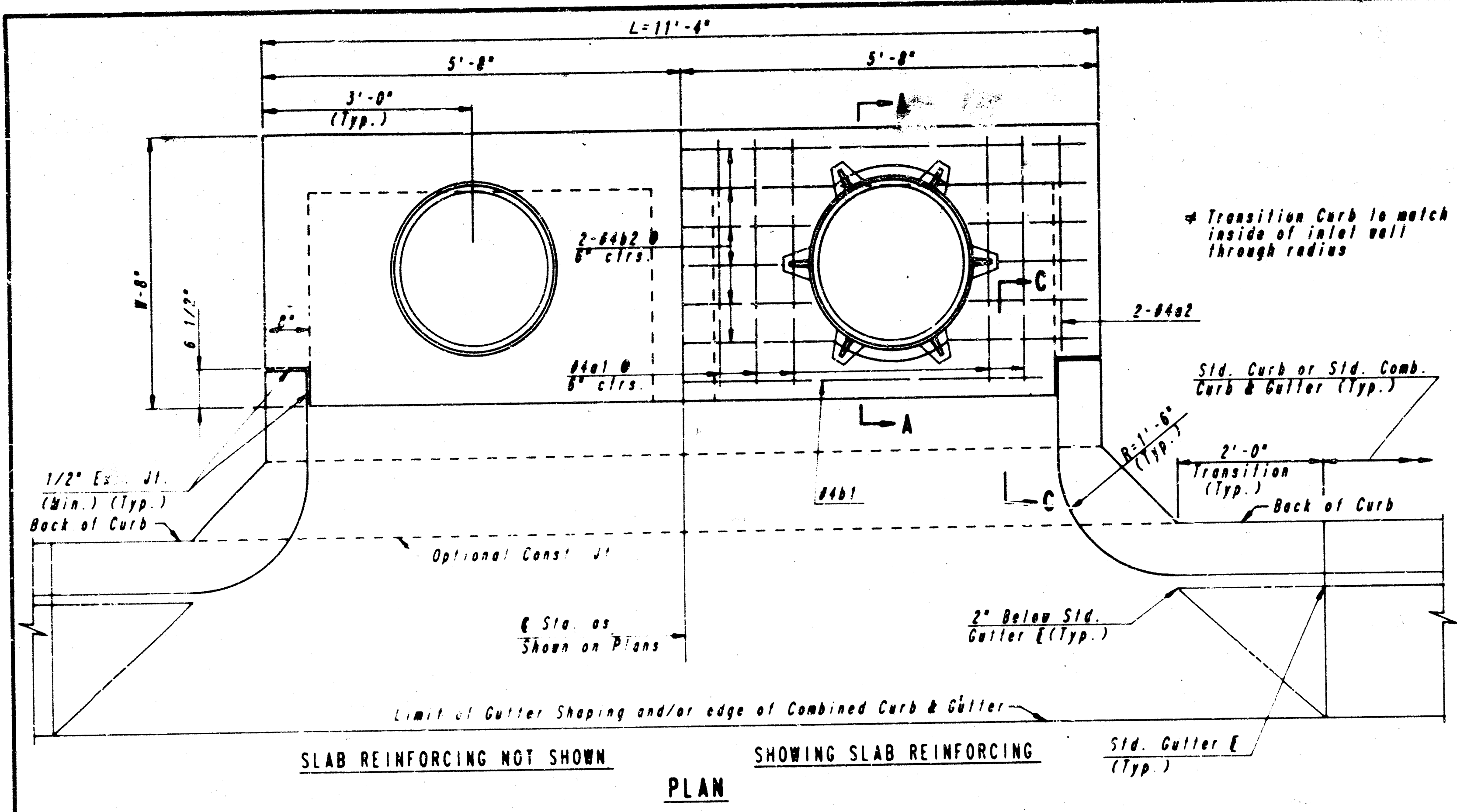
REINFORCED CONCRETE MANHOLE
DEPTH OF STACK: 0' TO 2.33'
SCALE 1" = 2'

REVISIED 1-7-85 Proj. No. 468-76-245-80001-000-000-161

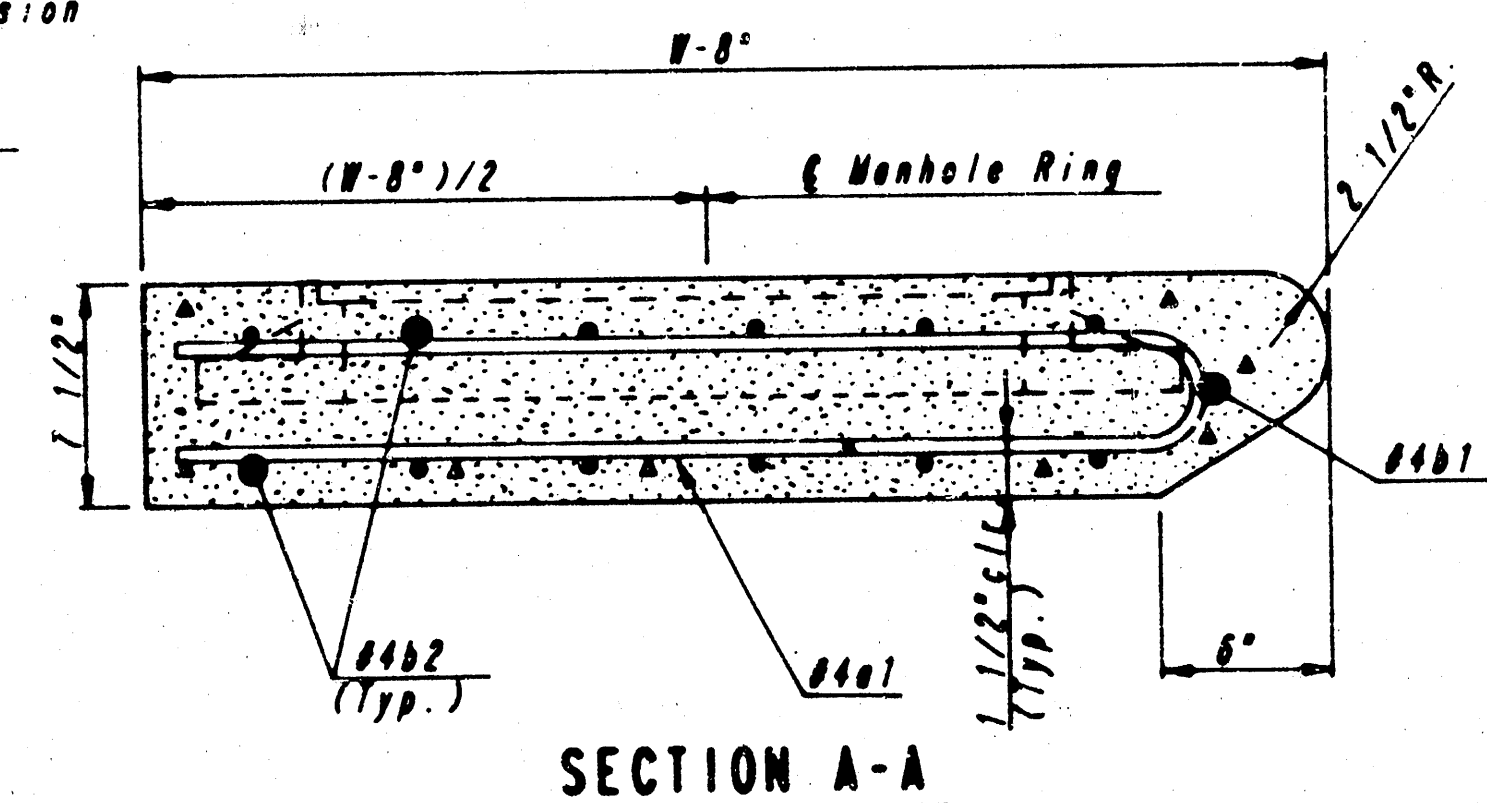
STANDARD DETAILS
REINFORCED CONCRETE MANHOLES
CITY OF WICHITA

FEBRUARY 1984

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See City of Wichita Standard Manhole Frame and Cover Detail Sheet for Cover Details to be used with Inlet Frame.



SLAB AND FLOOR REINFORCING											
MARK	SIZE	NO.	LENGTH	NO.	LENGTH	NO.	LENGTH	NO.	LENGTH	NO.	LENGTH
c1	#4	13	6'-7 1/4"	13	8'-7 1/4"	13	10'-7 1/4"	13	12'-7 1/4"	13	14'-7 1/4"
c2	#4	2	6'-0"	2	8'-0"	2	10'-0"	2	12'-0"	2	14'-0"
c3	#4	20	4'-1"	20	5'-1"	20	6'-1"	20	7'-1"	20	8'-1"
d1	#4	1	9'-0"	1	9'-0"	1	9'-0"	1	9'-0"	1	9'-0"
d2	#4	18	11'-1"	24	11'-1"	30	11'-1"	36	11'-1"	42	11'-1"

WALL REINFORCING											
MARK	SIZE	NO.	LENGTH	NO.	LENGTH	NO.	LENGTH	NO.	LENGTH	NO.	LENGTH
c1	#4	4	8'-1"	4	7'-1"	4	6'-1"	4	5'-1"	4	4'-1"
d1	#4	1	11'-1"	1	11'-1"	1	11'-1"	1	11'-1"	1	11'-1"
d2	#4	1	4'-1"	1	5'-1"	1	6'-1"	1	7'-1"	1	8'-1"
d3	#4	1	11'-1"	1	11'-1"	1	11'-1"	1	11'-1"	1	11'-1"

* Field bend or cut Reinforcing as required for clearance
① 4(N1-6") + 4 (N1-6") Rounded down to nearest 0.5'
② 40 + 4(W - 16") ③ N1-(9")

GENERAL NOTES

THE CONTRACTOR WILL BE REQUIRED TO CONSTRUCT 8" BRICK MASONRY WALLS BETWEEN THE CONCRETE INLET BASE AND TOP OF THIS INLET WHEN W-4'-4" OR LESS AND W-7'-4" OR LESS. WHEN W IS GREATER THAN 8'-4" AND IS LESS THAN 7'-4", THE OUTSIDE WALLS BELOW THE BRICK STACK SHALL BE REINFORCED CONCRETE CONSTRUCTION AND THE CENTER WALL SHALL BE OF MASONRY CONSTRUCTION AS SHOWN FOR THE MASONRY WALL OPTION.

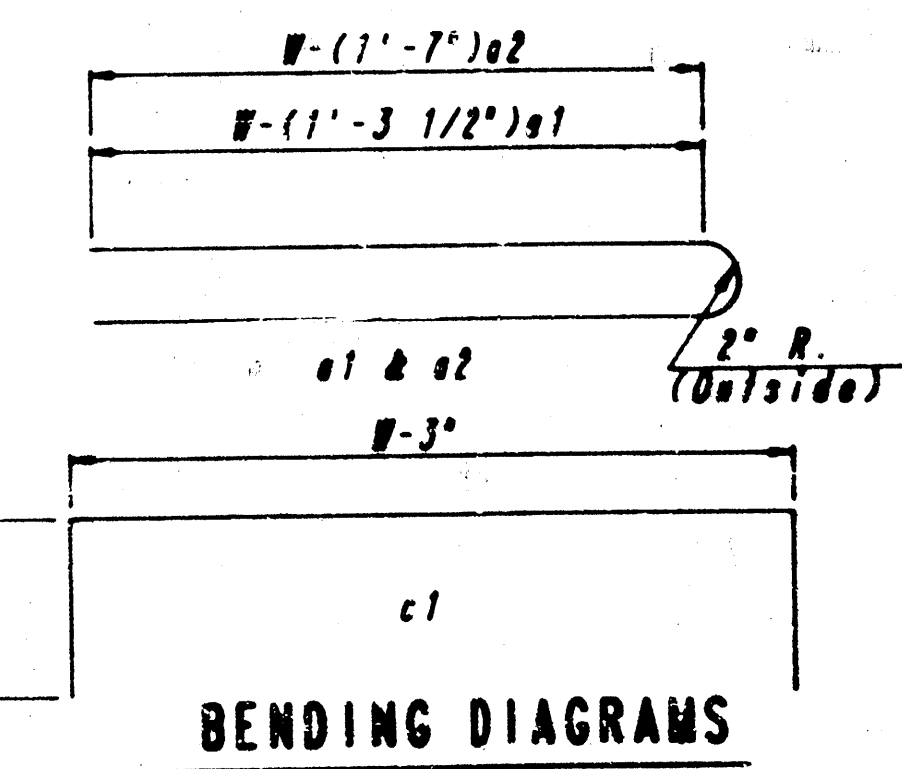
INLET INVERT SHALL BE SHAPED WITH A SACK SAND MIX CONCRETE TO CREATE FLOW CHANNELS AND TO INCREASE HYDRAULIC EFFICIENCY SUCH THAT THE INLET WILL BE SELF-CLEANING BETWEEN ALL INLET AND/OR OUTLET PIPES.

CONCRETE SHALL BE CITY OF WICHITA STANDARD PAVING MIX. ALL EXPOSED EDGES SHALL BE FINISHED WITH AN EROSION TOOL. INLET TOPS ARE TO BE PLACED ON A 1" THIN SOUTER CEMENT TO INSURE FULF. SUPPORT ALONG HO-CC WALLS. CONCRETE TOPS MAY BE PRECAST OR CAST IN PLACE. INLET TOPS SHALL BE NOTCHED OUT AS INDICATED TO FACILITATE CONSTRUCTION OF CURB.

UNLESS OTHERWISE NOTED, ALL BARS ARE #4 OR #6. CENTERS AND SHALL HAVE A MINIMUM CLEARANCE OF 1-1/2". BARS SHALL BE FIELD BENT OR CUT TO CLEAR MANHOLE RISERS AND PIPE OPENINGS.

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

ADDITIONAL CURB AND/OR CURB AND GUTTER CONSTRUCTION NECESSARY TO CONNECT SET-BACK INLET TO PAVEMENT WILL BE PAID FOR AT THE UNIT PRICE BID PER EACH FOR "INLET INSET".



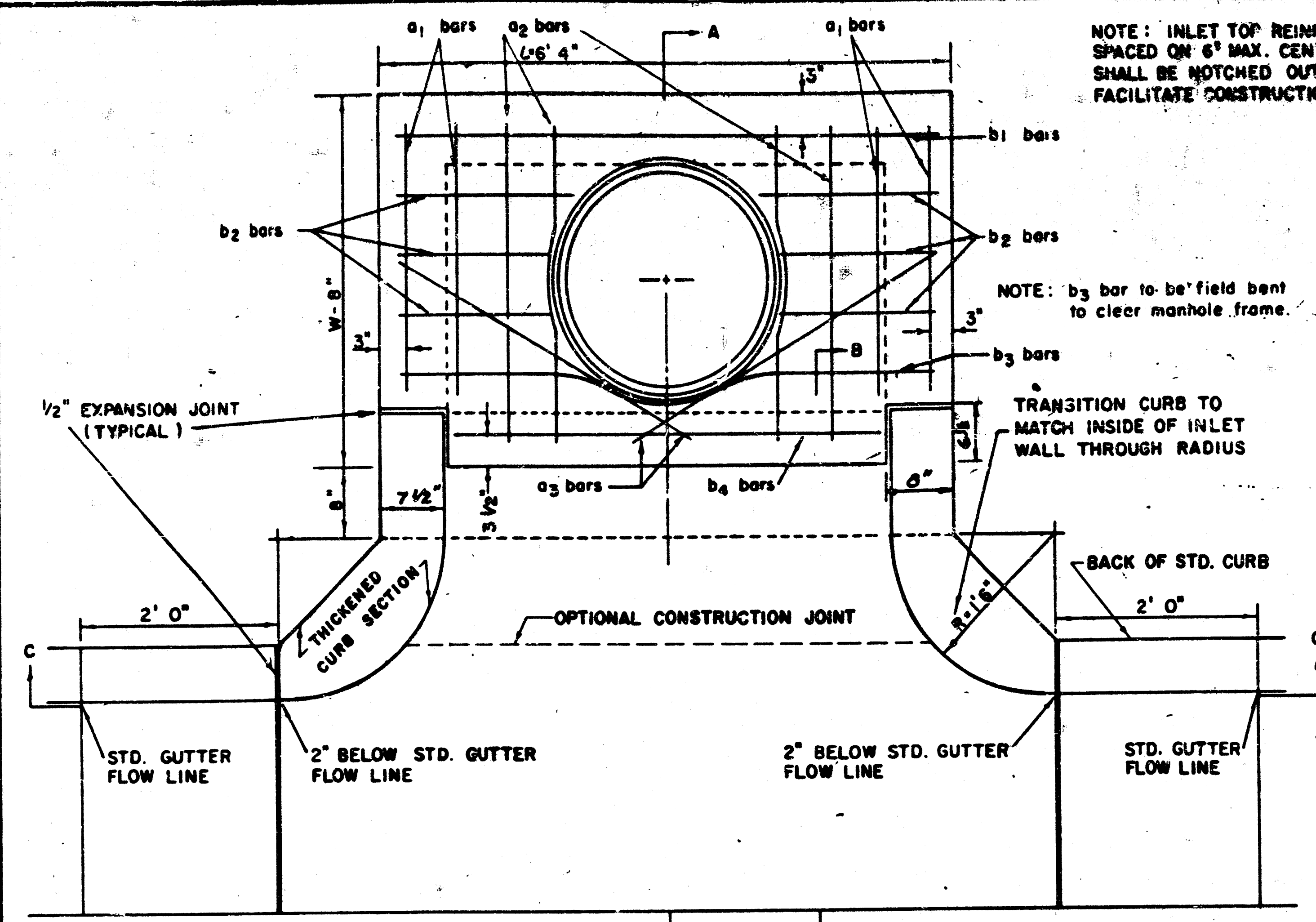
CITY OF WICHITA, KANSAS

DETAILED STANDARD TYPE 1A CURB INLET
INLET OPENING - 6" x 10'-0" (L=11'-4")

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

Designed by: _____ Checked by: _____
Drawn by: _____ Date: _____ Job No. _____

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PLAN

STEEL SCHEDULE

BAR	a ₁	a ₂	a ₃	b ₁	b ₂	b ₃	b ₄	MT. / LB.
NUMBER	4	4	2	1	3	5	7	9
SIZE	#4	#4	#4	#4	#4	#4	#4	#4
W=4'4"	5'7"	6'7"	4'0"	6'1"	-	-	-	1'9"
W=5'4"	7'7"	8'7"	5'0"	6'1"	-	-	-	1'9"
W=6'4"	9'7"	10'7"	6'0"	6'1"	-	-	-	1'9"
W=7'4"	11'7"	12'7"	7'0"	6'1"	-	-	-	1'9"
W=8'4"	13'7"	14'7"	8'0"	6'1"	-	-	-	1'9"

* NOTE: a₃ BARS TO BE PLACED APPROX. 2" BELOW TOP OF INLET COVER

BENDING DIAGRAM

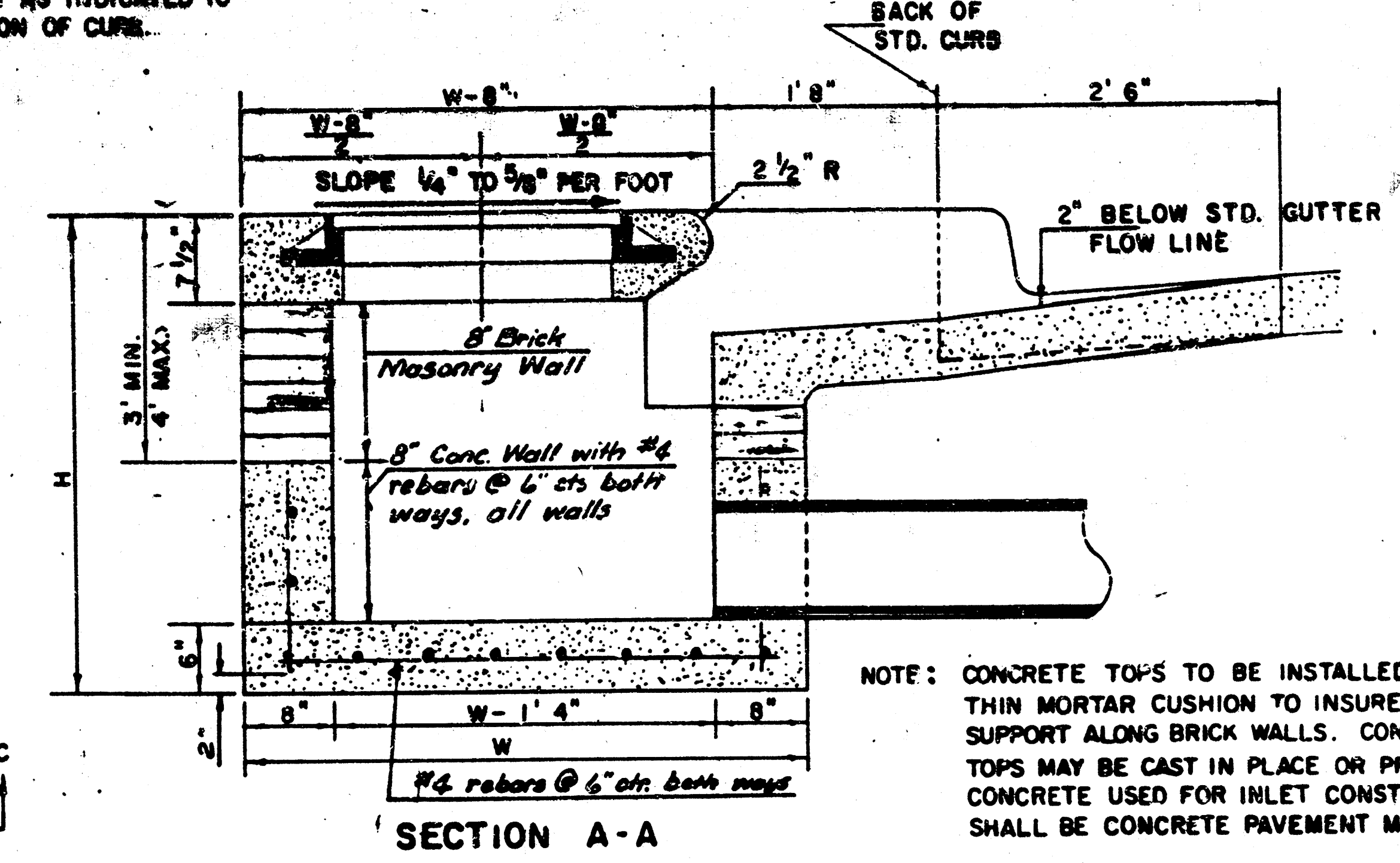
STANDARD CURB INLET PRECAST TOPS

W	PRECAST TOP SIZE	PIPE SIZE	CU. YD. CONC.
4' 4"	36" x 6'4" x 7 1/2"	21" & SMALLER	0.38 ±
5' 4"	48" x 6'4" x 7 1/2"	24" & 30"	0.51 ±
6' 4"	54" x 6'4" x 7 1/2"	36" & 42"	0.64 ±
7' 4"	66" x 6'4" x 7 1/2"	48" & 54"	0.77 ±
8' 4"	78" x 6'4" x 7 1/2"	60" & 66"	0.90 ±

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: b₃ bar to be field bent to clear manhole frame.

TRANSITION CURB TO MATCH INSIDE OF INLET WALL THROUGH RADIUS



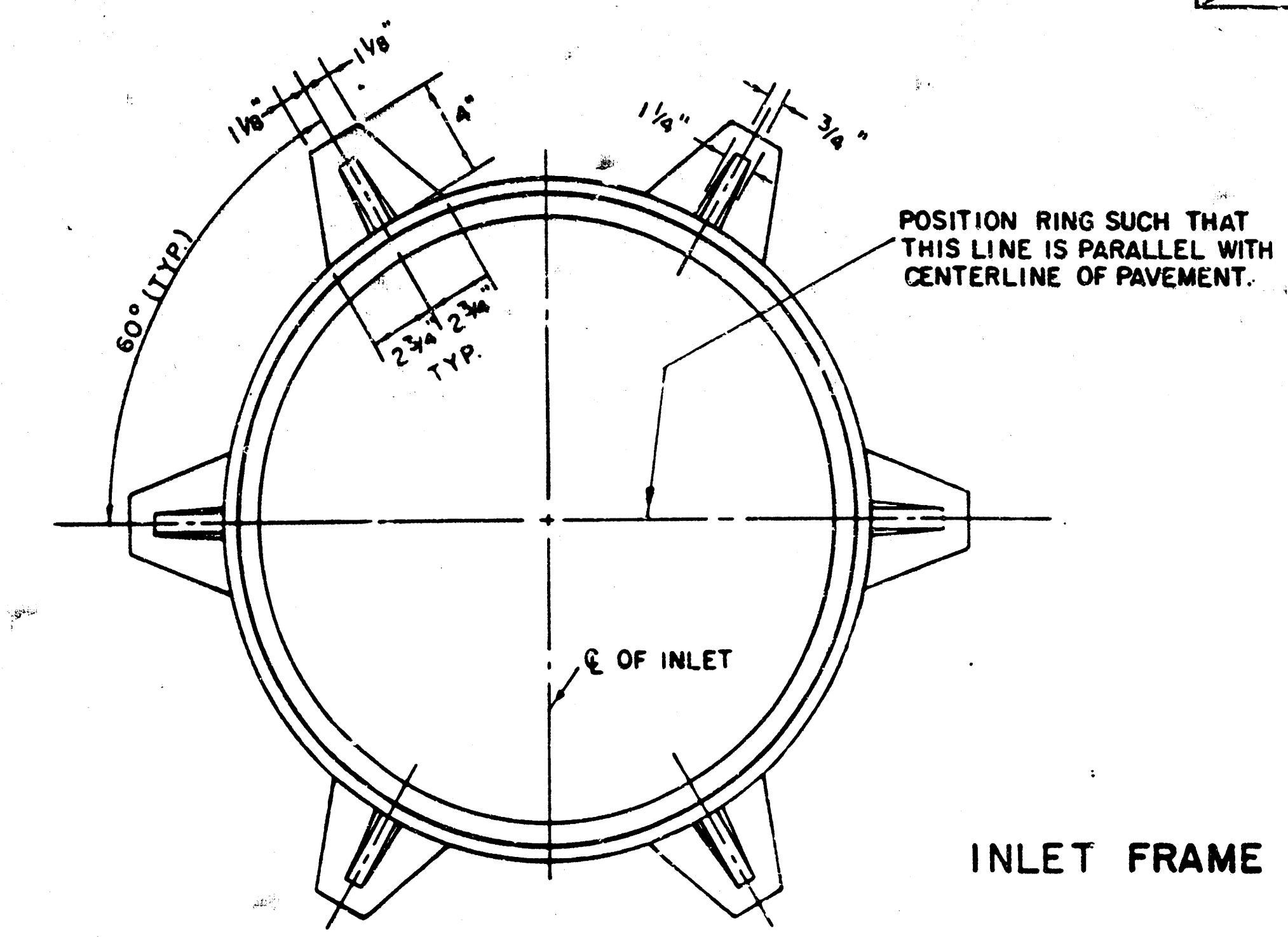
NOTE: CONCRETE TOPS TO BE INSTALLED ON THIN MORTAR CUSHION TO INSURE FULL SUPPORT ALONG BRICK WALLS. CONCRETE TOPS MAY BE CAST IN PLACE OR PRECAST. CONCRETE USED FOR INLET CONSTRUCTION SHALL BE CONCRETE PAVEMENT MIX.

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.

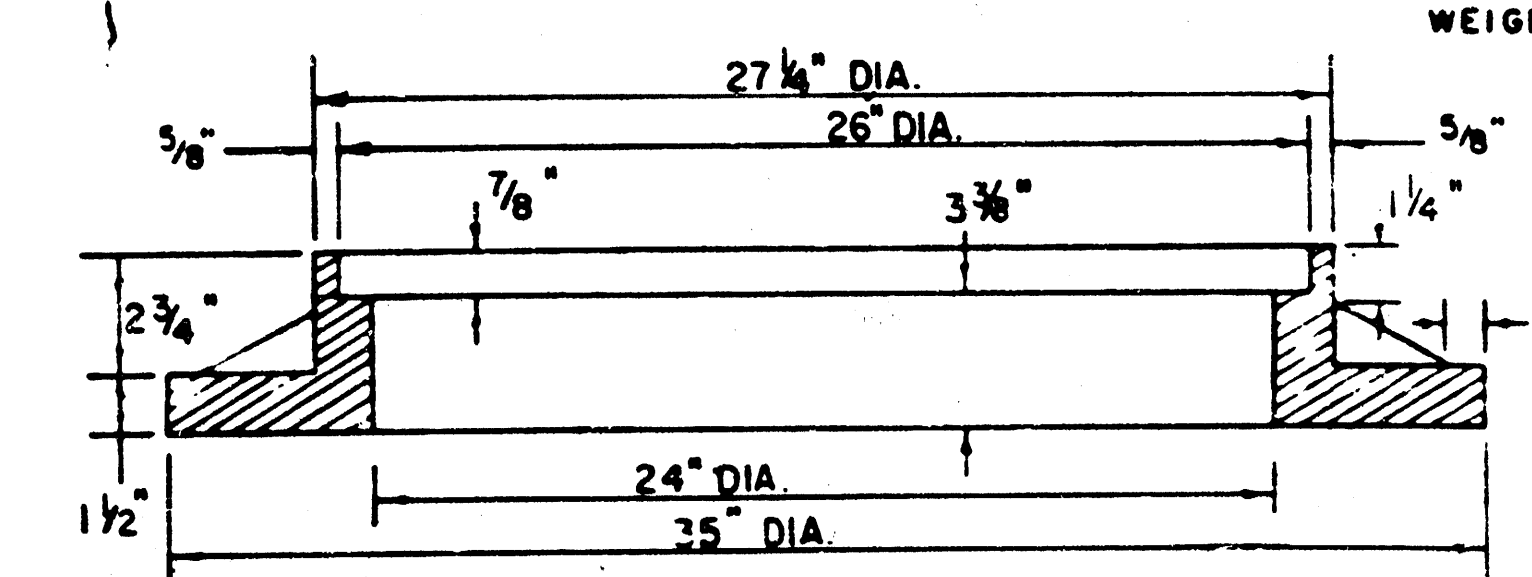
ADDITIONAL CURB AND GUTTER CONSTRUCTION NECESSARY TO CONNECT SET-BACK INLET TO PAVEMENT WILL BE PAID FOR AT THE UNIT PRICE BID FOR EACH INLET HOOKUP.

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.

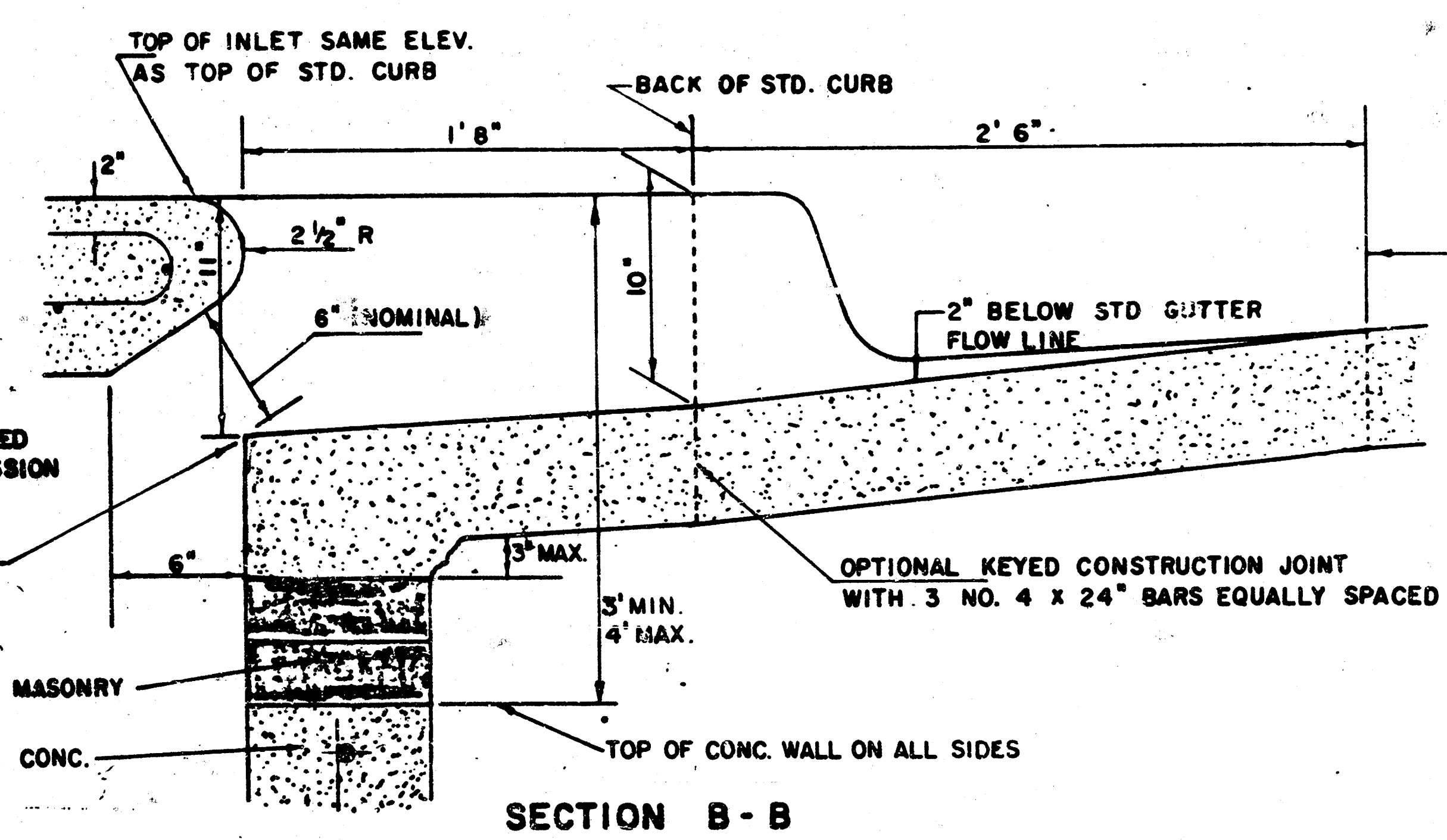
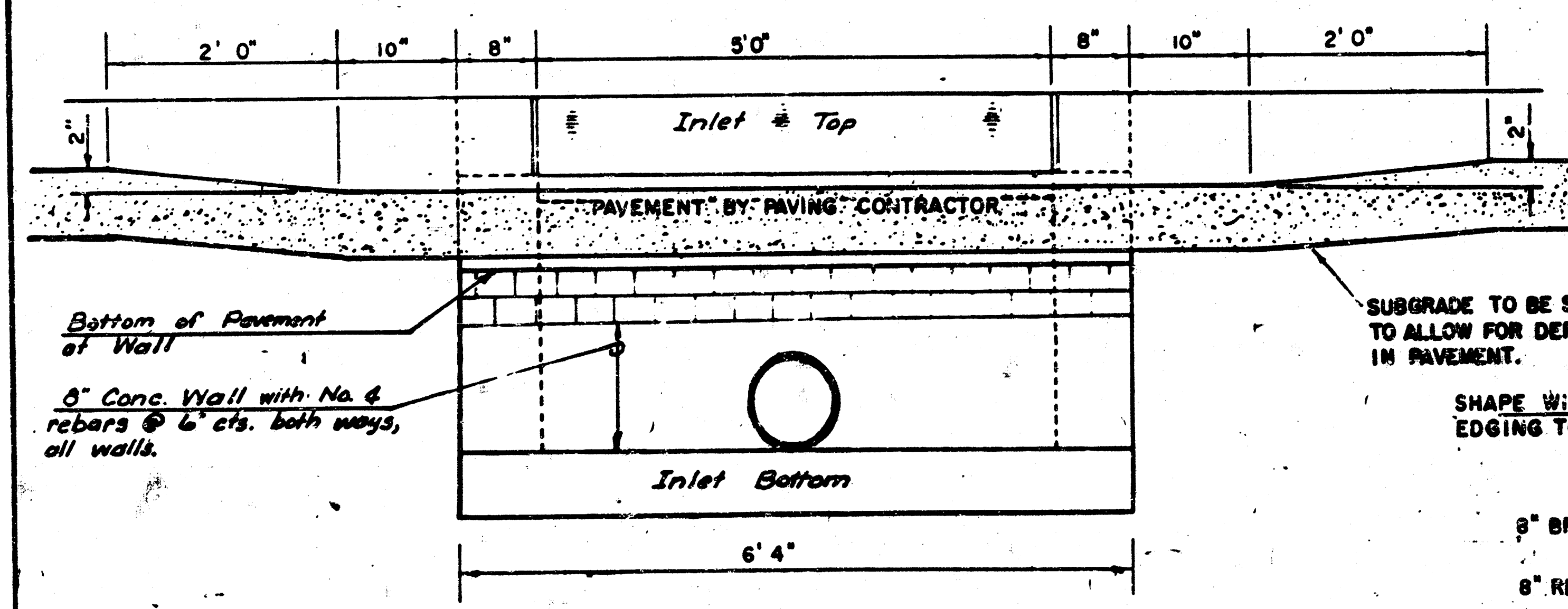
THE ENDS OF ALL PIPES INSTALLED IN INLETS SHALL BE CUT OFF FLUSH WITH THE INSIDE FACE OF THE INLET WALL.



WEIGHT = 180 LBS.



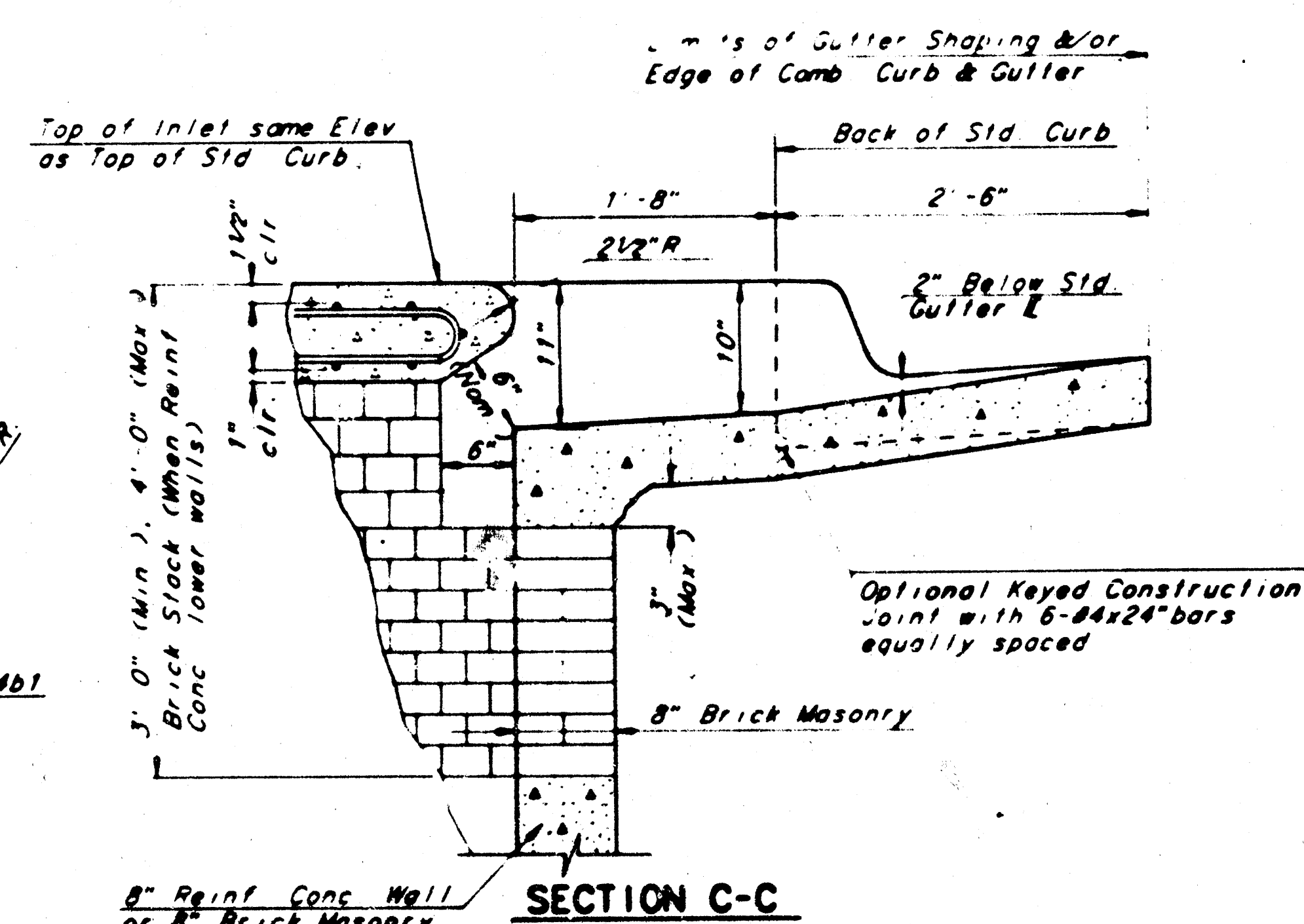
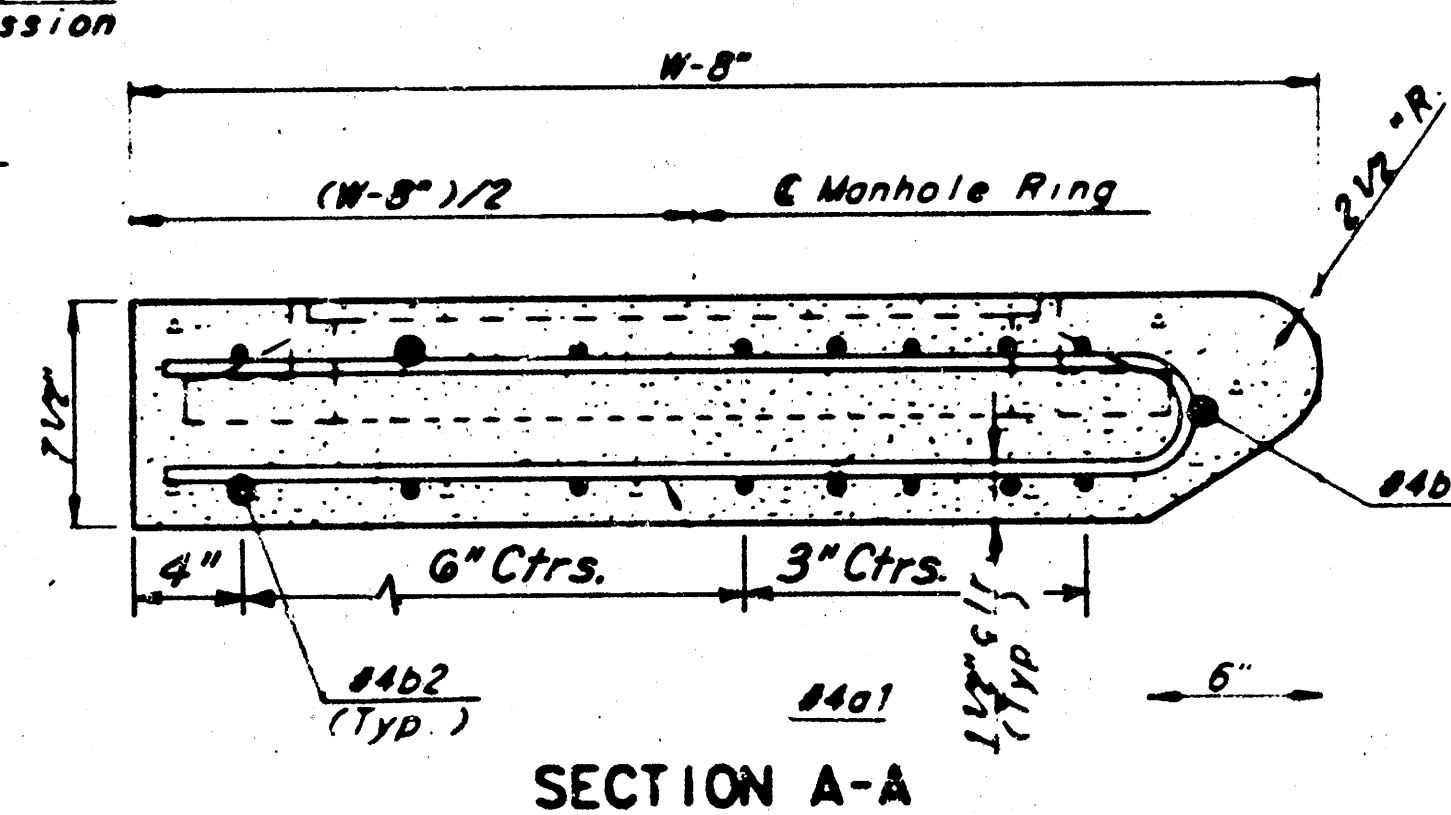
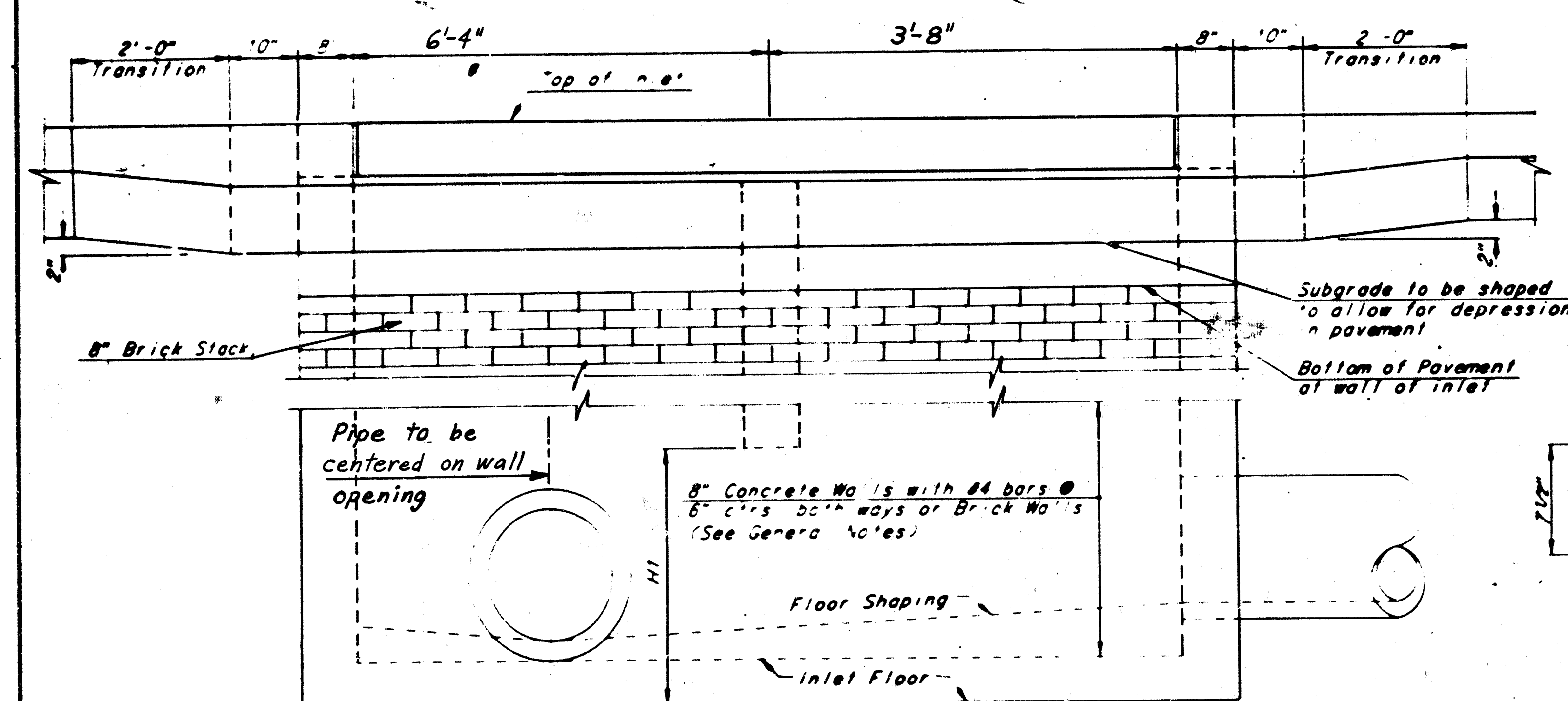
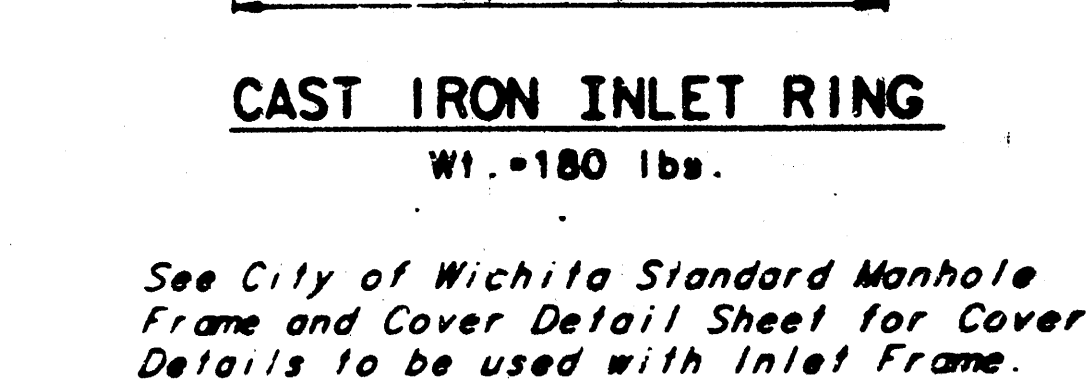
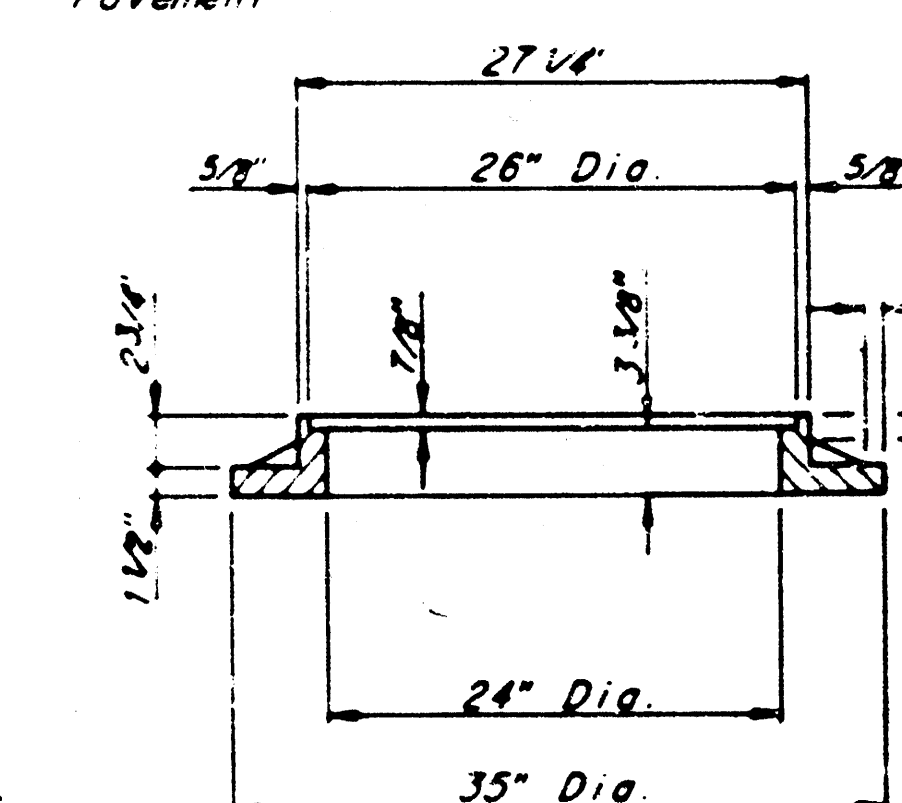
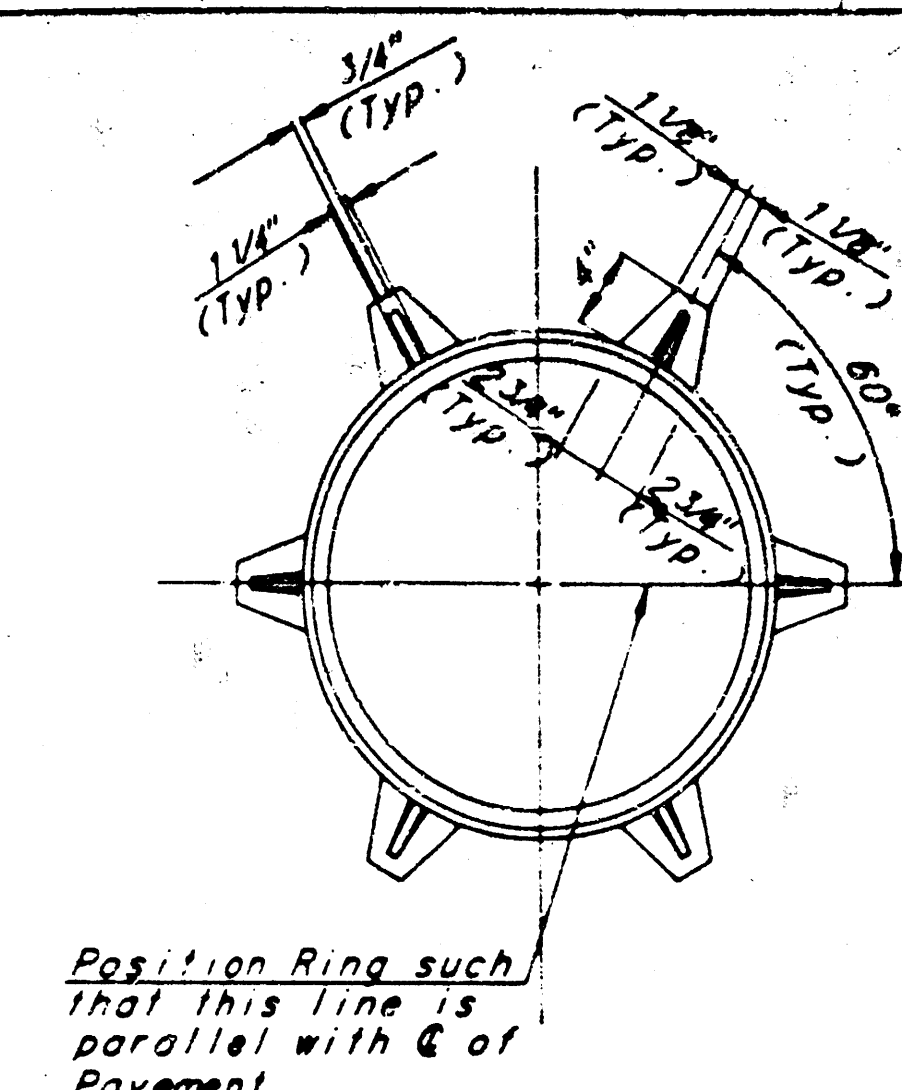
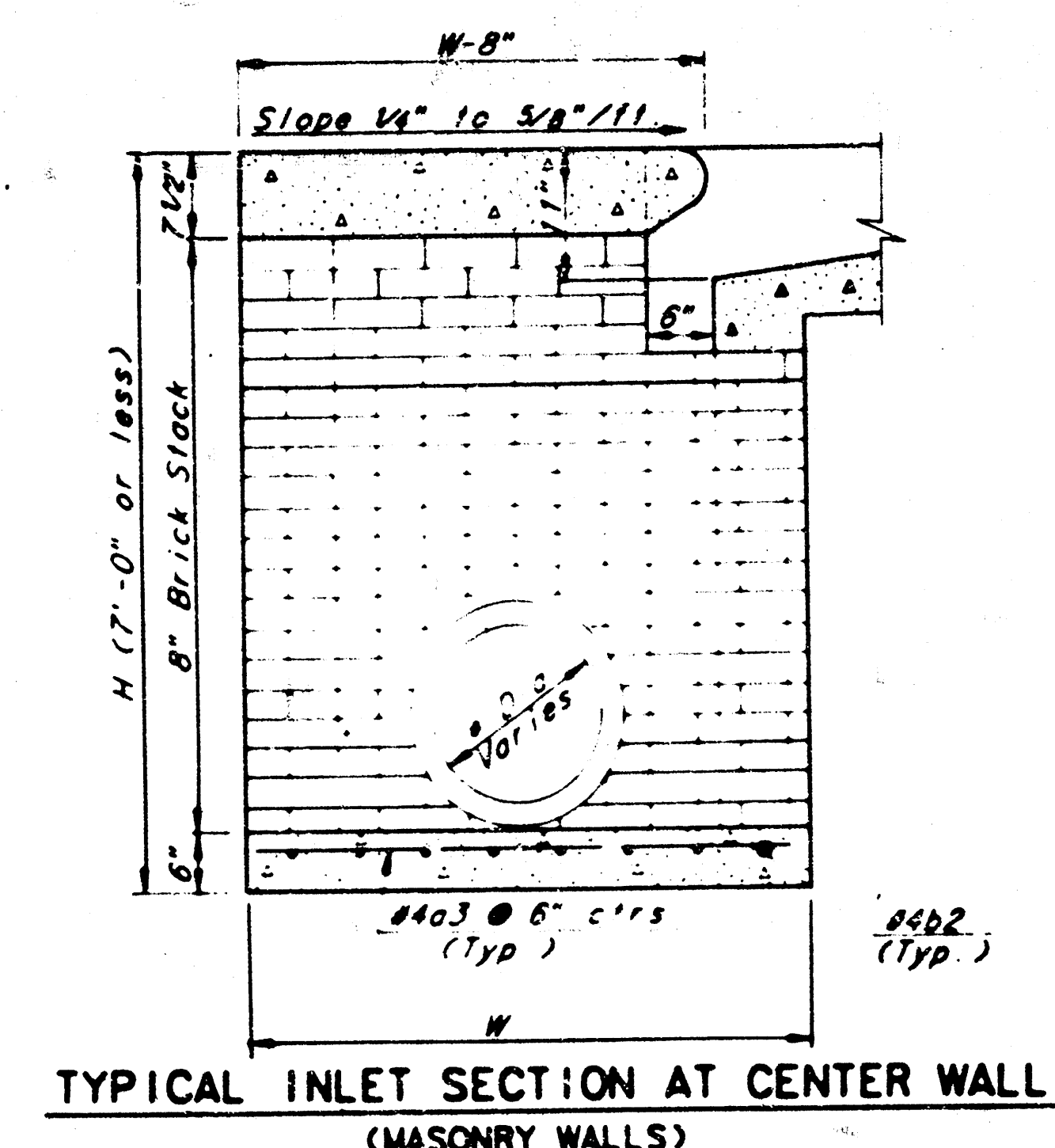
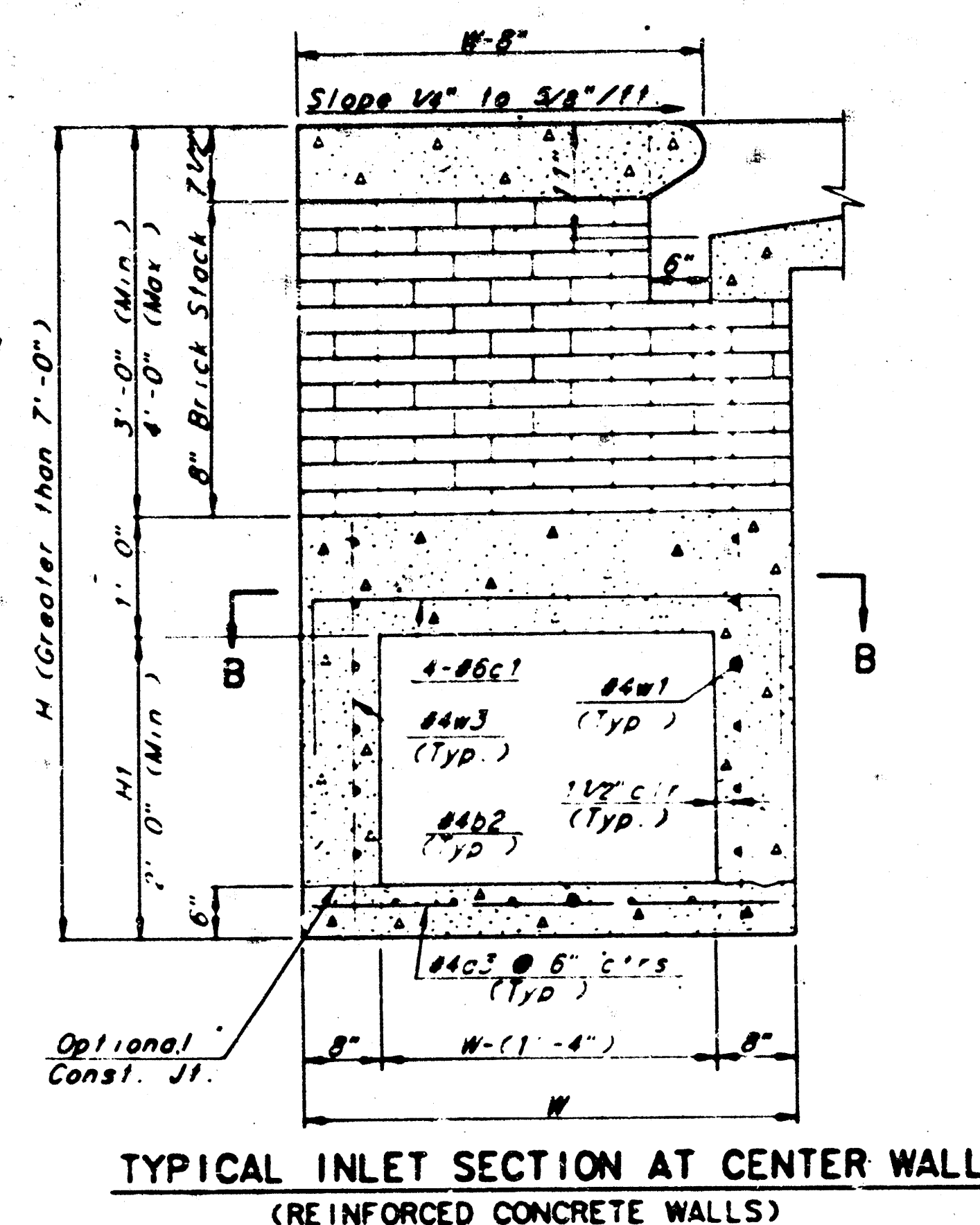
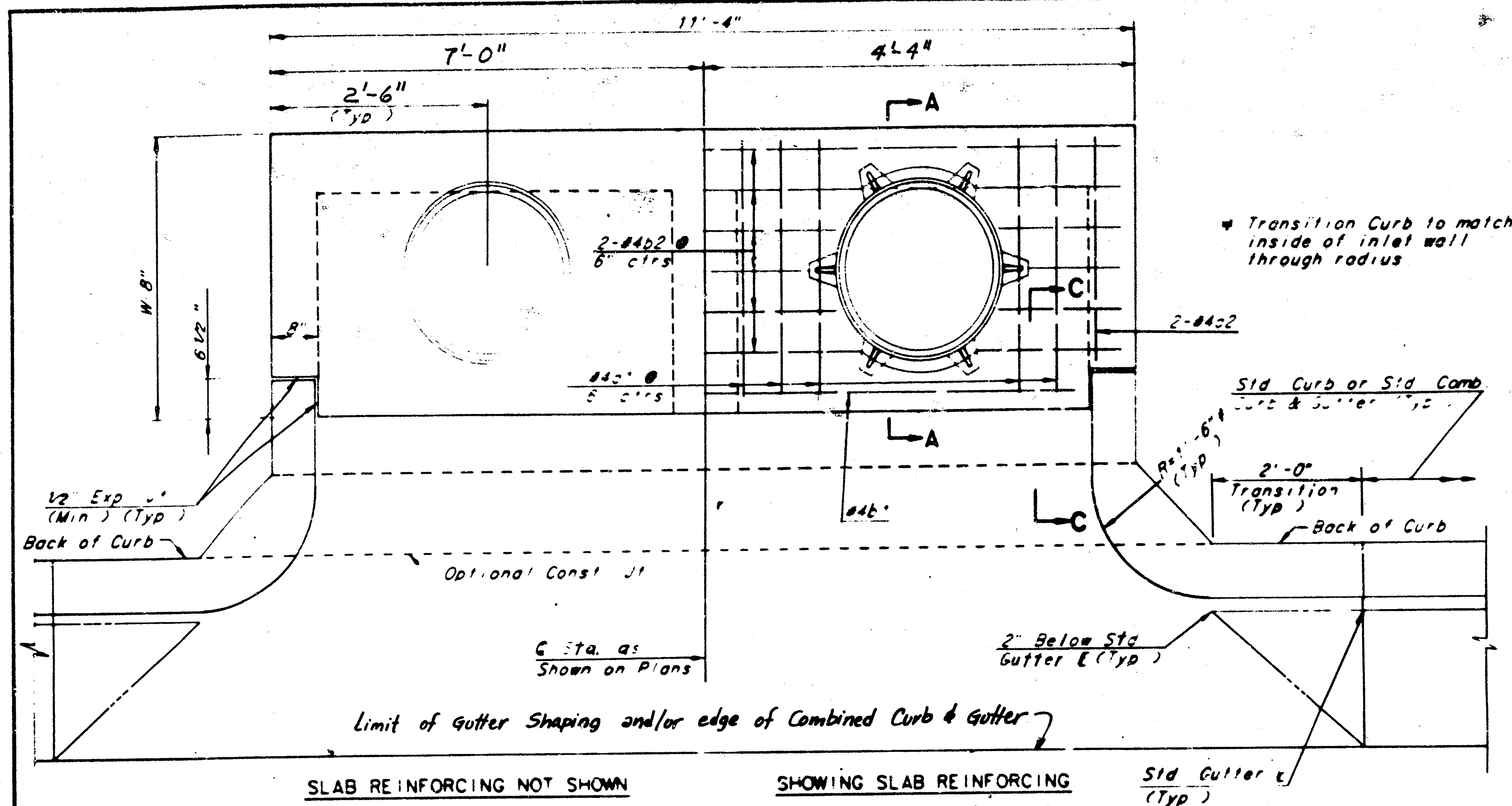
SEE CITY OF WICHITA STANDARD MANHOLE FRAME AND COVER DETAIL SHEET FOR COVER DETAILS TO BE USED WITH INLET FRAME.



LIMITS OF GUTTER SHAPING AND/OR EDGE OF COMB. CURB AND GUTTER

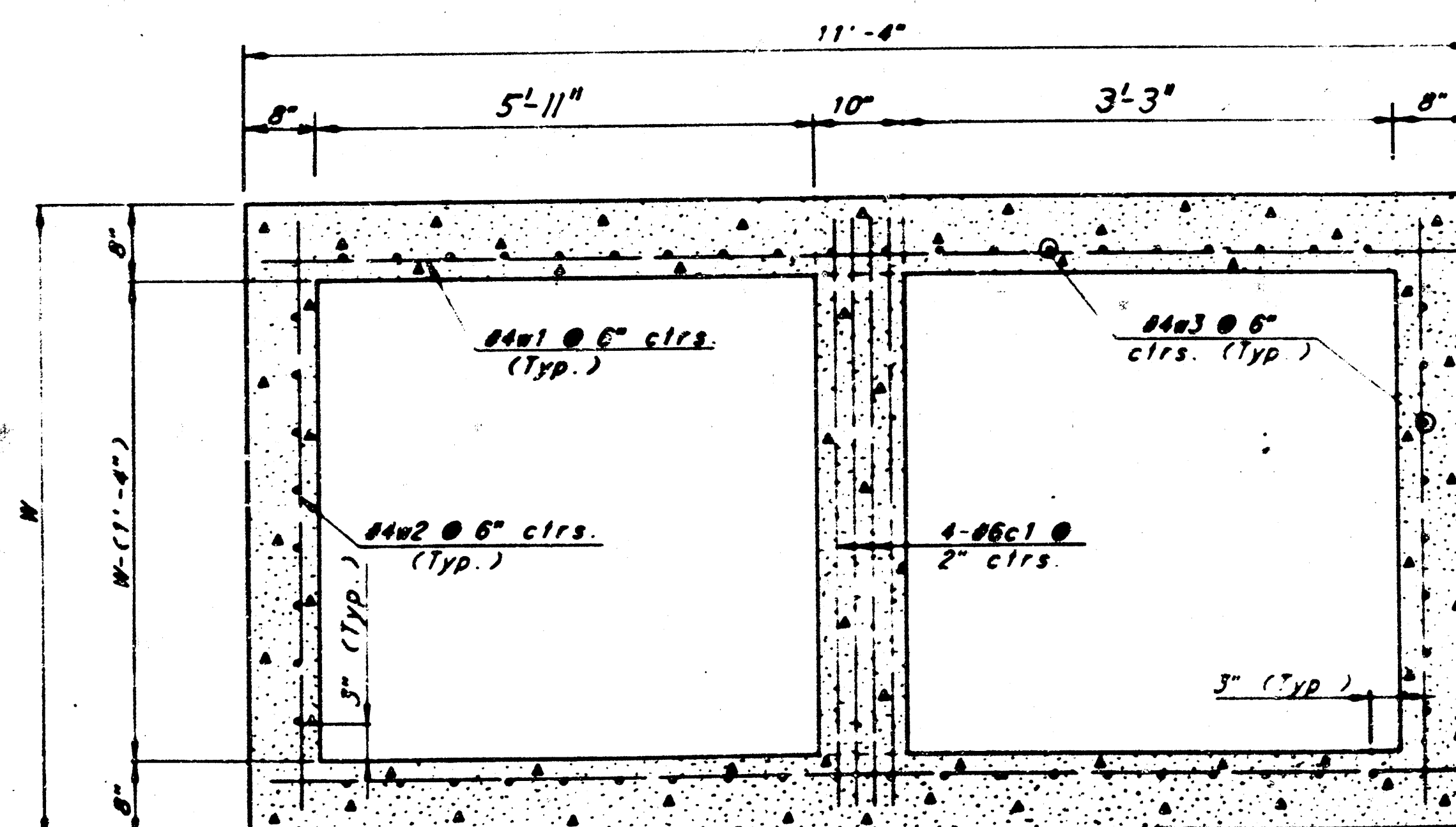
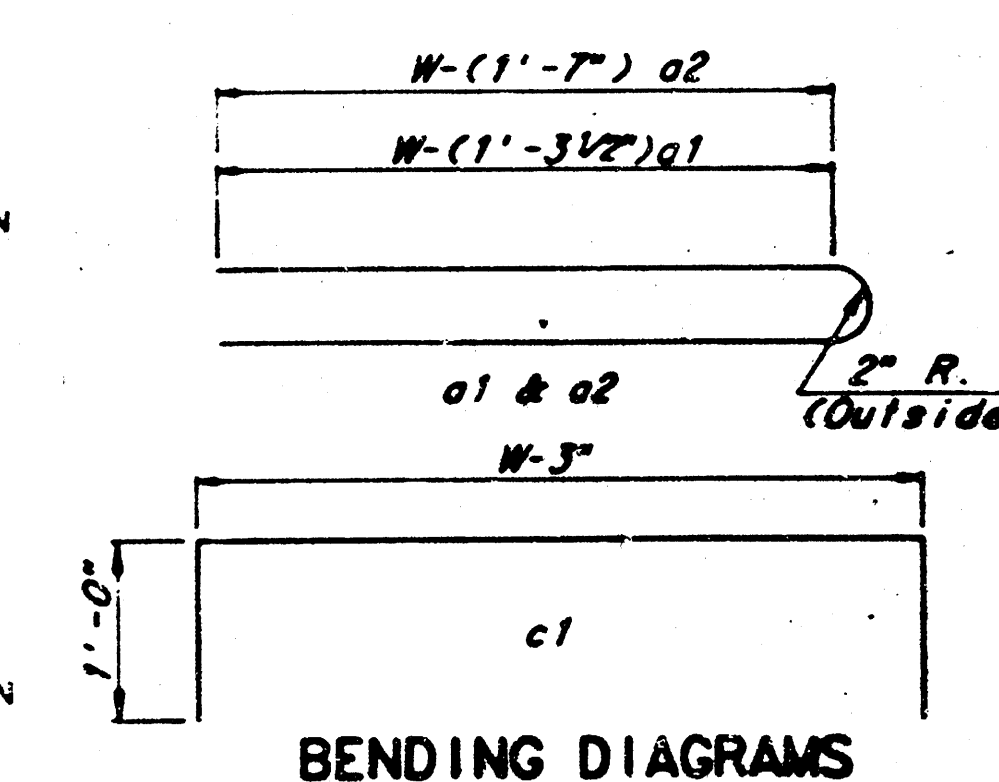
REVISED 12-21-1984 Proj. No. 448-76-285-80001-000-000-161

DETAIL STANDARD TYPE IA CURB INLET
CITY OF WICHITA, KANSAS
INLET OPENING = 6" x 5'0"
(L=6'-4")
JUNE 1984



GENERAL NOTES

1. "THE CONTRACTOR SHALL BE REQUIRED TO CONSTRUCT" B" BY CX
CONCRETE WALLS BEHIND THE CONCRETE INLET BASE AND TOP ON THIS
INLET WHEN $+6.4"$ OR LESS AND $+7.0"$ OR LESS WHEN W IS
GREATER THAN $6.4"$ AND W IS LESS THAN $7.0"$ OF THE OUTSIDE
FACE. WALLS RIGIDLY ATTACHED TO THE CONCRETE INLET BASE AND
CONSTRUCTION AND THE CENTER WALL SHALL BE OF MASONRY CONSTRUCTION
AS SHOWN FOR THE MASONRY WALL OPTION
2. 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.
3. CONCRETE TOPS TO BE INSTALLED ON THIN MORTAR CUSHION TO
INCREASE FULL SUPPORT ALONG BRICK WALLS. CONCRETE TOPS MAY BE
CAST IN PLACE OR PRECAST CONCRETE USED FOR INLET CONSTRUCTION
SHALL BE CONCRETE PAVEMENT MIX.
4. INLET TOP REINFORCING SHALL BE SPACED ON 6" MAX CENTERS. INLET
LIDS SHALL BE NOTCHED OUT AS INDICATED TO FACILITATE CONSTRUCTION OF
THE BARS IN INLET TOP TO BE FIELD BENT OR CUT TO CLEAR
MANHOLE RING.
5. THE ENDS OF ALL PIPES INSTALLED IN INLETS SHALL BE CUT OFF FLUSH
WITH THE INSIDE FACE OF THE INLET WALL.



SLAB AND FLOOR REINFORCING											
MARK	SIZE	W=4' - 4"		W=5' - 4"		W=6' - 4"		W=7' - 4"		W=8' - 4"	
		NO.	LENGTH	NO.	LENGTH	NO.	LENGTH	NO.	LENGTH	NO.	LENGTH
a"	#4	13	6' - 1 1/4"	13	8' - 7 1/4"	13	10' - 3 1/4"	13	12' - 0 1/4"	13	14' - 7 1/4"
a3	#4	2	6' - 0"	2	8' - 0"	2	10' - 0"	2	12' - 0"	2	14' - 0"
a2	#4	20	1' - 1"	20	3' - 1"	20	6' - 1"	20	7' - 1"	20	8' - 1"
b1	#4	1	9' - 8"	1	3' - 8"	1	5' - 8"	1	9' - 8"	1	3' - 8"
b2	#4	18	11' - 1"	24	11' - 1"	32	11' - 1"	40	11' - 1"	46	11' - 1"

WALL REINFORCING											
MARK	SIZE	W=4' - 4"		W=5' - 4"		W=6' - 4"		W=7' - 4"		W=8' - 4"	
		NO.	LENGTH	NO.	LENGTH	NO.	LENGTH	NO.	LENGTH	NO.	LENGTH
c1	#6	4	6' - 1"	4	7' - 1"	4	8' - 1"	4	9' - 1"	4	10' - 1"
c1	#4	①	1' - 1"	①	1' - 1"	①	1' - 1"	①	1' - 1"	①	1' - 1"
w2	#4	①	4' - 1"	①	5' - 1"	①	6' - 1"	①	7' - 1"	①	8' - 1"
w3	#4	②	⑤	②	⑤	②	⑤	②	⑤	②	⑤

WALL REINFORCING											
		W=4'-4"		W=5'-4"		W=6'-4"		W=7'-4"		W=8'-4"	
MARK	SIZE	NO.	LENGTH	NO.	LENGTH	NO.	LENGTH	NO.	LENGTH	NO.	LENGTH
c1	#6	4	6'-1"	4	7'-1"	4	8'-1"	4	9'-1"	4	10'-1"
u1	#4	①	1'-1"	①	1'-1"	①	1'-1"	①	1'-1"	①	1'-1"
#2	#4	①	2'-1"	①	3'-1"	①	4'-1"	①	5'-1"	①	6'-1"
u3	#4	②	⑤	②	⑤	②	⑤	②	⑤	②	⑤

① $4(HI - 6'') \cdot 4(HI - 6'')$ Rounded down to nearest 0.5'

② $40+4(W-16)$ ③ $H1+(9^\circ)$

SPECIAL TYPE 1A
CURB INLET
INLET OPENING = 8" x 10' - 0"

INLET OPENING = 8" x 10' - 0"

WICHITA, KANSAS

Designed by	BER, KJS, LMB	Checked by	LMB
Drawn by	JGP	Date	Nov., 1984
		Job No.	87599-

Dis. paid by	BER. KJS. 1984	Classified by	1984
From	JGP	Date	Nov., 1984
		Job No.	87509-

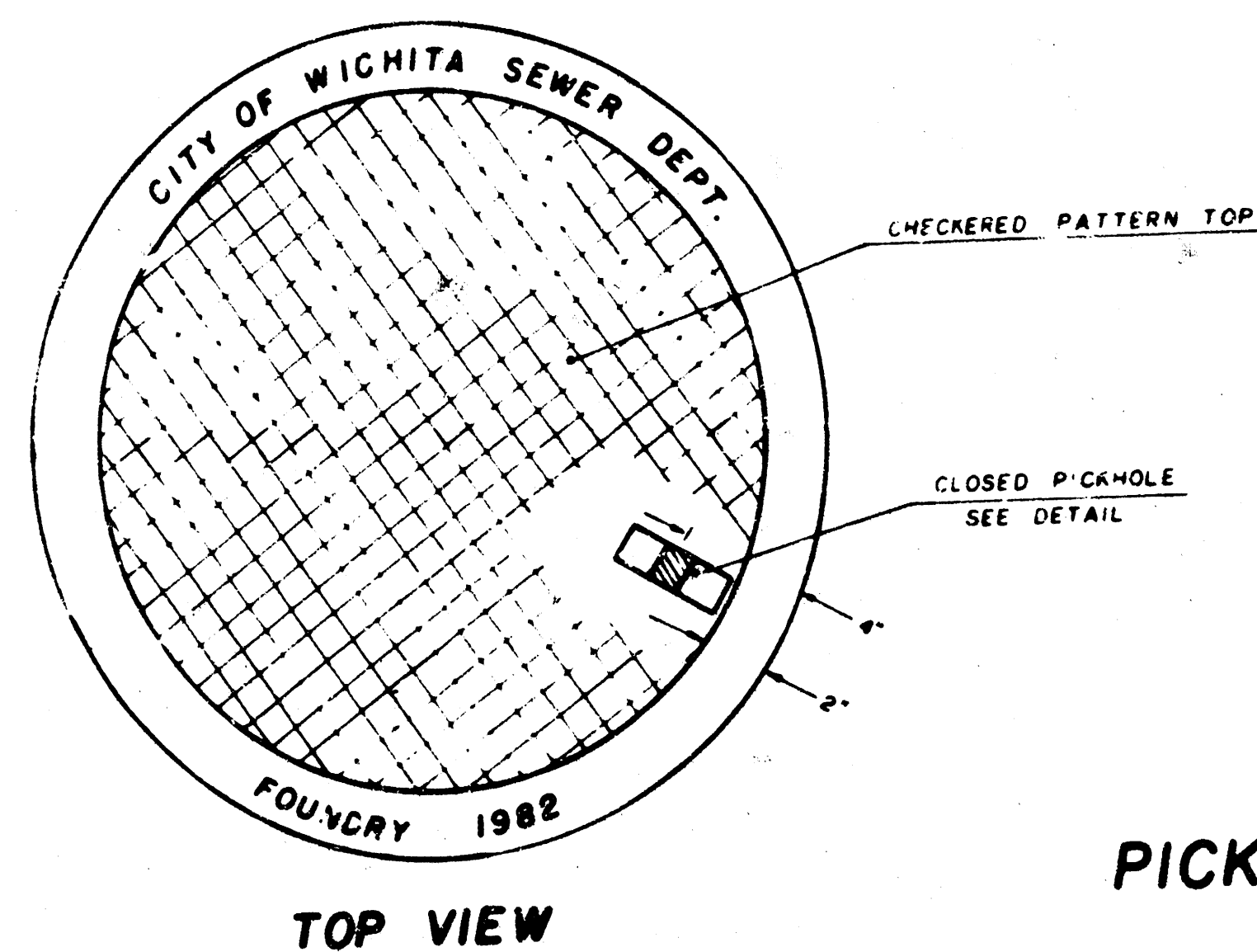
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MANHOLE FRAME AND COVER DETAIL

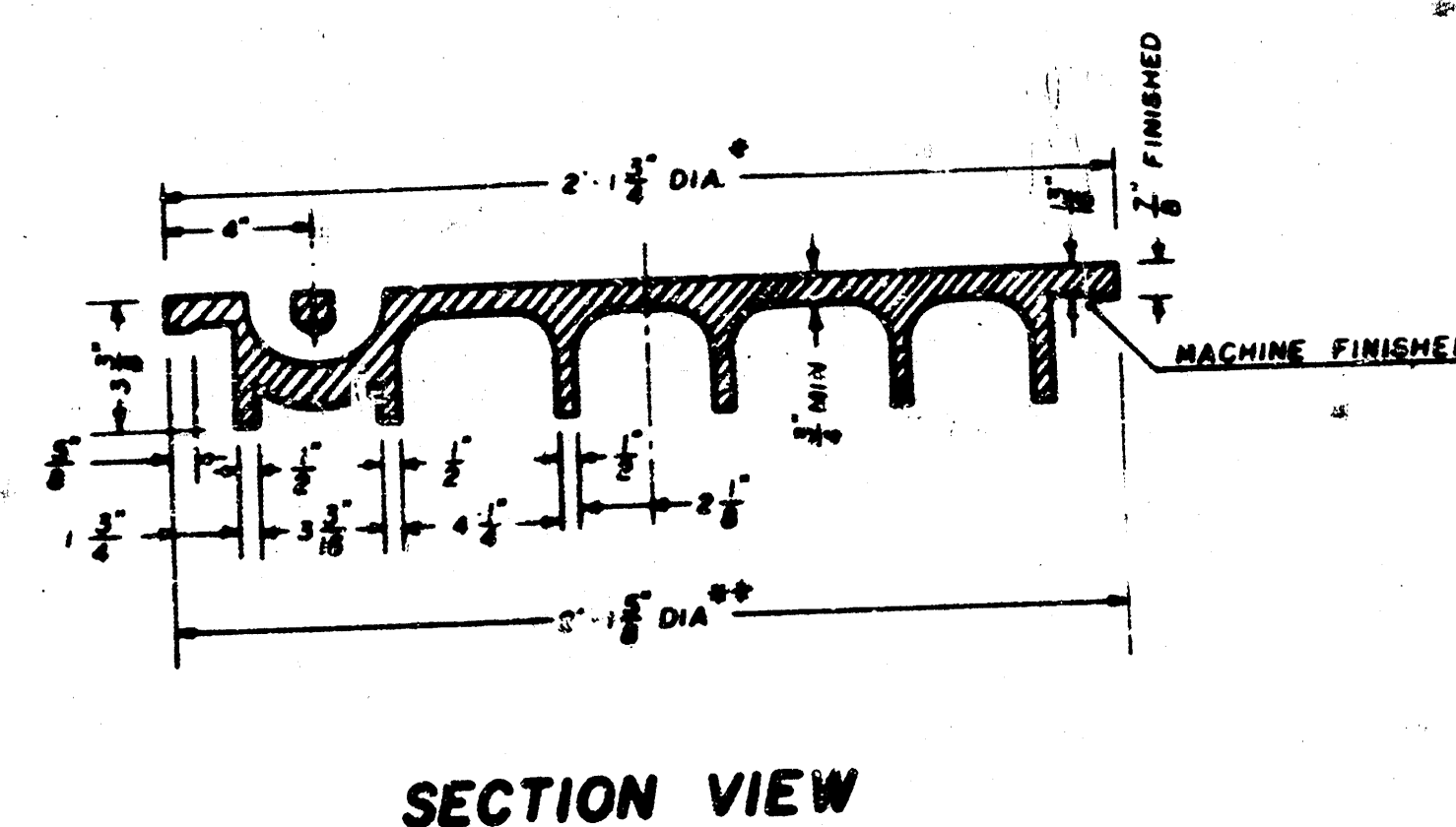
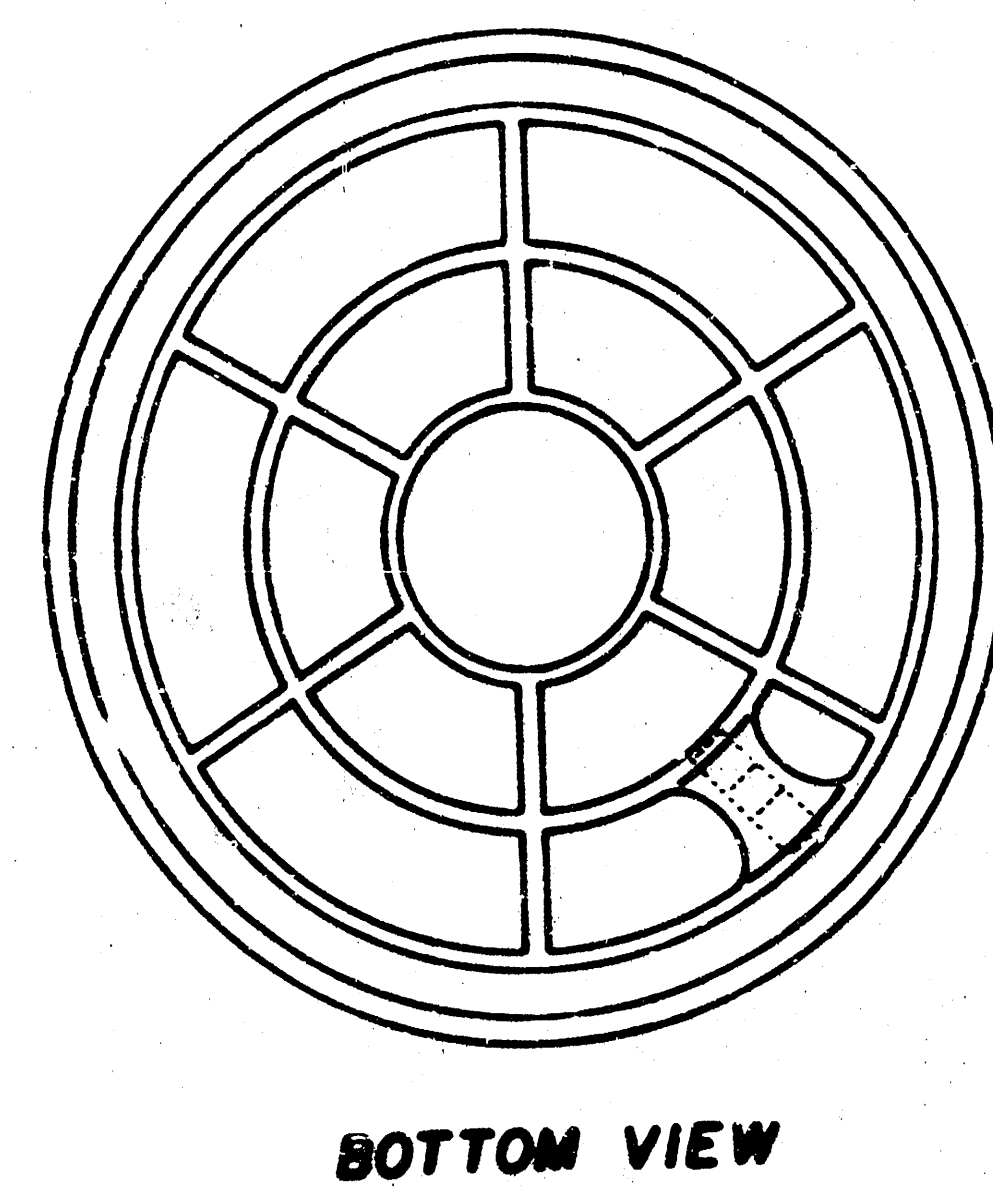
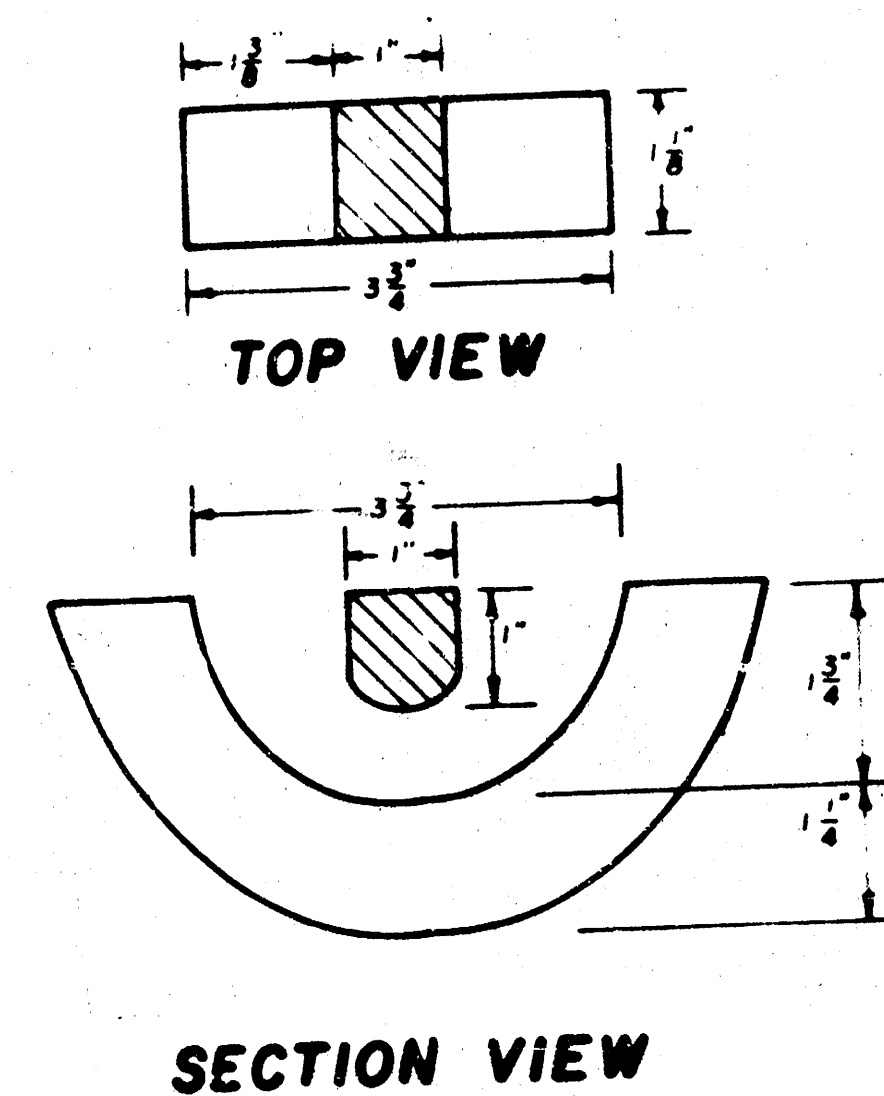
ADOPTED AS STANDARD DESIGN
BY

City of Wichita, Kansas

MANHOLE COVER
Weight: 180 Lbs.

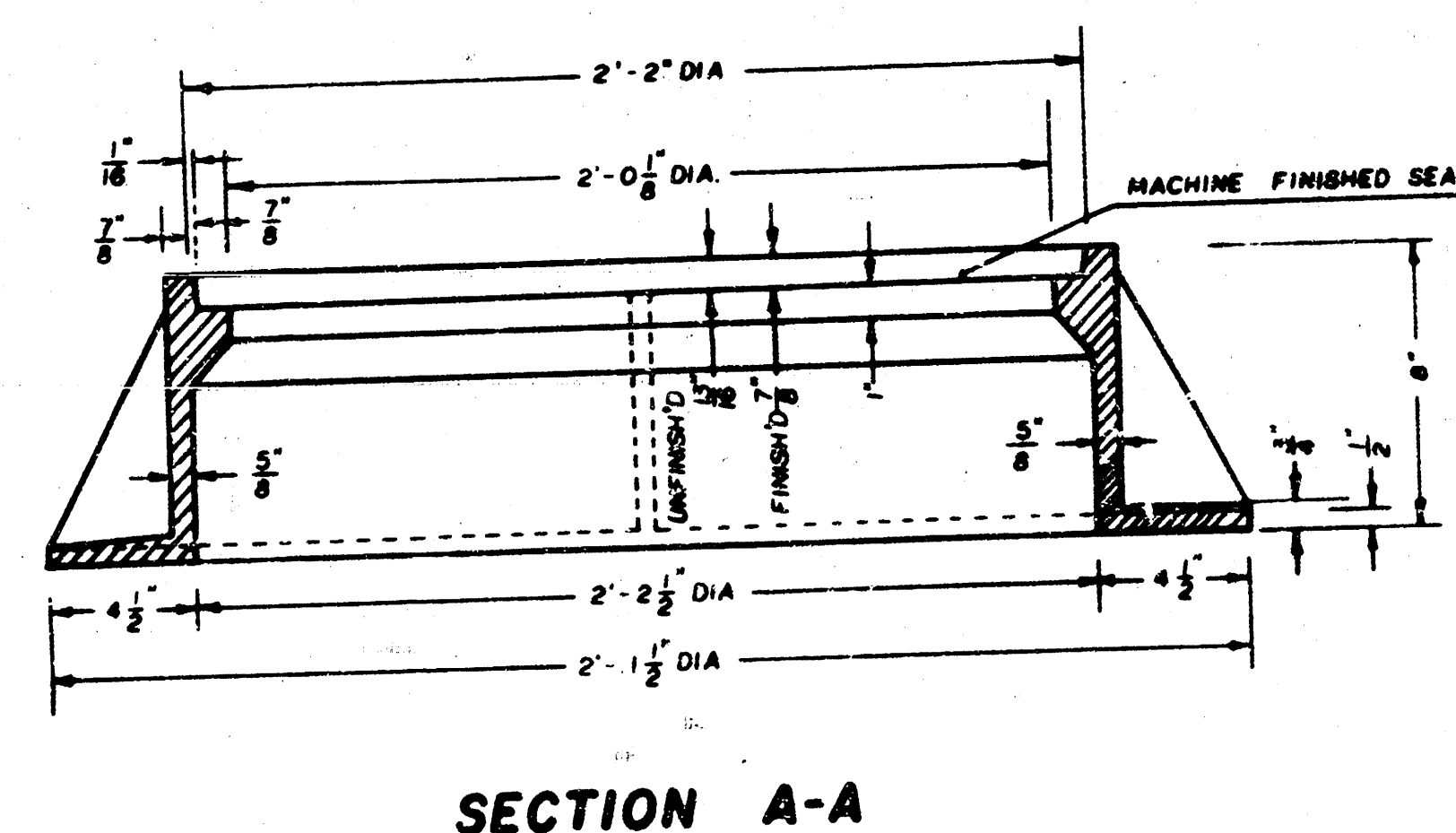
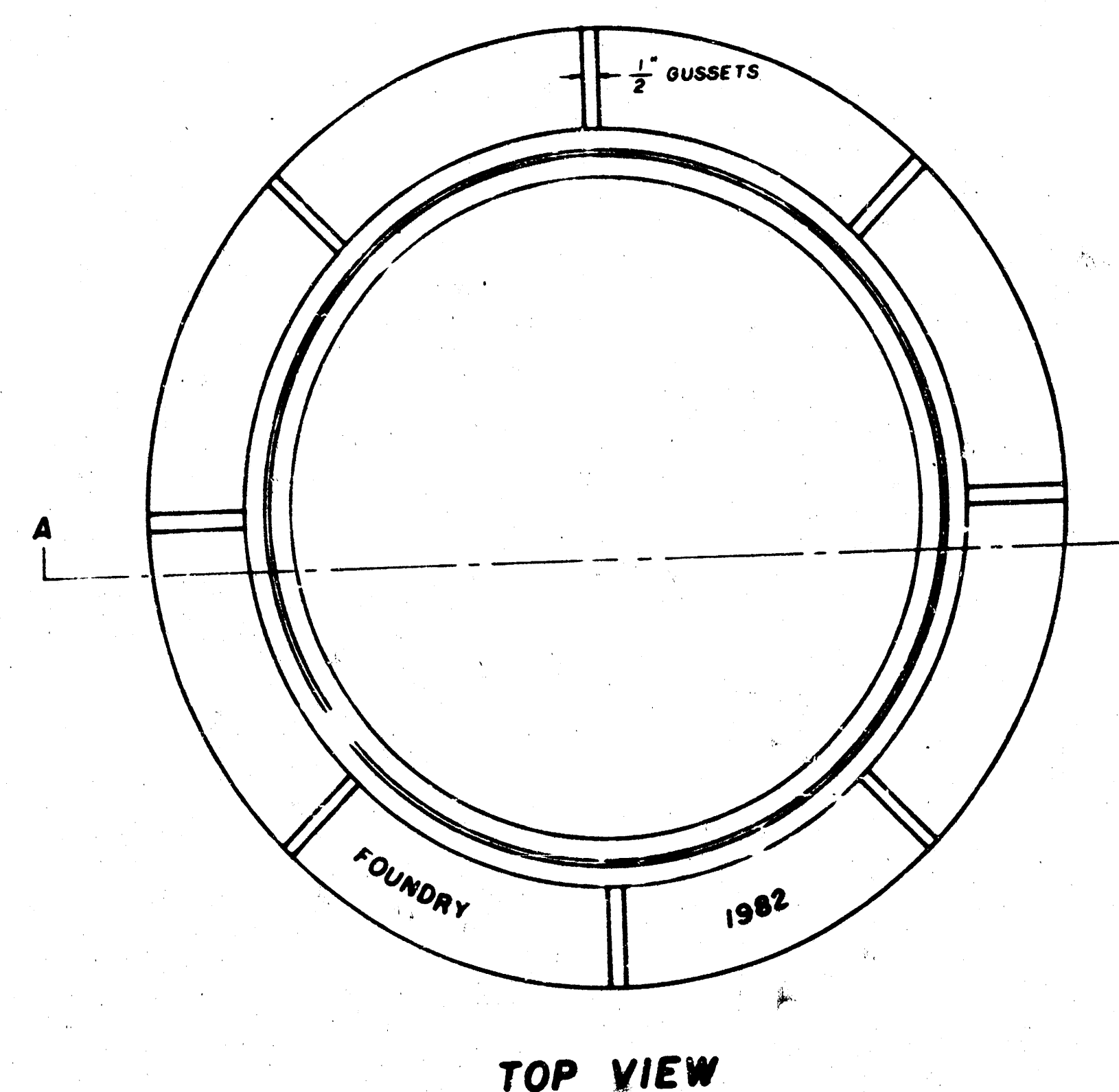


PICKHOLE DETAIL



* OUTSIDE DIA TOP OF COVER
** OUTSIDE DIA BOTTOM OF COVER

MANHOLE FRAME
Weight: 240 Lbs.



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 DETAIL 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.