

CITY OF WICHITA, KANSAS

MICHAEL E. LINDEBAK, P.E., CITY ENGINEER

STORM SEWER IMPROVEMENT

SMITHMOOR FIRST ADDITION

CITY OF WICHITA PROJECT NO. 468-76-245-80001-000-000-100

SHEET NO.	TOTAL SHEETS
1	7

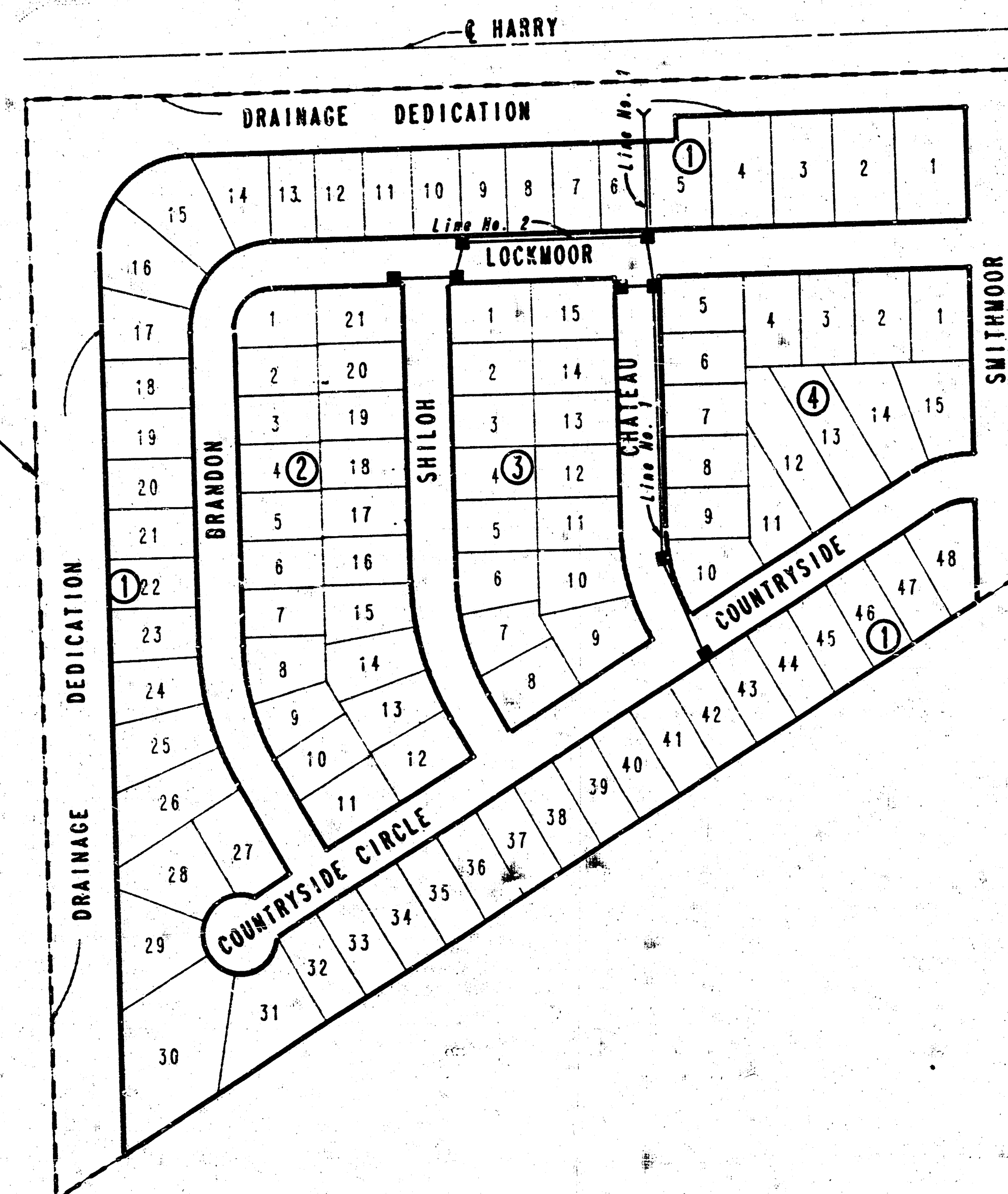
INDEX OF SHEETS

1. TITLE SHEET
2. PLAT
3. - 5. PLAN & PROFILE
6. DETAIL STD. TYPE 1A CURB INLET
7. MANHOLE FRAME & COVER DETAIL

PROJECT SURVEY CONTROL

VERTICAL DATUM: CITY OF WICHITA DATUM
 DATUM BENCH MARK: CHIS. "D" ON NE COR. RCB, 924' E. OF E. WEDD ROAD ON N. SIDE HARRY ST. ELEV. = 107.11
 BENCH MARK: CITY OF WICHITA STANDARD BENCH MARK DISC, 37.0' N. OF 1/4 COR. SEC. 33, T27S, R2E, (1/2 MILE EAST OF WEDD ROAD, N. SIDE HARRY ST. BY PUMP STATION) ELEV. = 155.53
 BENCH MARK: S.E. COR. OF CONCRETE FOOTING OF POWER POLE RISE ON S. SIDE HARRY ST., 375' E. OF 1/4 COR. SEC. 33, T27S, R2E. ELEV. = 155.81
 BENCH MARK: RR SPIKE IN OSAGE ORANGE IN HEDGE ROW (E-W) APPROX. 750' S.E. OF 1/4 COR. SEC. 33, T27S, R2E. ELEV. = 158.59
 BENCH MARK: N.W. COR. RCB 800' E. OF N 1/4 COR. SEC. 33, T27S, R2E. ELEV. = 152.45
 BENCH MARK: RR SPIKE IN 2ND P.P.W. OF N-S HEDGE ROW @ N.E. COR. SMITHMOOR 1ST., S. SIDE HARRY STREET ELEV. = 154.09
 BENCH MARK: RR SPIKE IN E. FC COTTONWOOD, S. OF HEDGE ROW APPROX. 300' N.E. COR. SHILON & COUNTRYSIDE. ELEV. = 159.28

BENEFIT DISTRICT



GENERAL NOTES

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. THE CONTRACTOR SHALL NOTIFY PIPELINE COMPANIES AT LEAST 24 HOURS IN ADVANCE OF ANY WORK BEING PERFORMED ACROSS AND/OR ADJACENT TO PIPELINES.
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. THE CONTRACTOR SHALL FERTILIZE, SEED AND MULCH ALL DISTURBED AREAS WITHIN THE DRAINAGE DEDICATION AND HARRY ST. RIGHT-OF-WAY AS DIRECTED BY THE ENGINEER. THIS WORK SHALL BE PAID FOR AT THE UNIT PRICE BIDS FOR "FERTILIZING AND SEEDING" AND "MULCHING". SAID PRICE SHALL BE CONSIDERED FULL COMPENSATION FOR ALL MATERIALS, LABOR, TOOLS, EQUIPMENT, AND INCIDENTALS NECESSARY TO COMPLETE THE WORK IN ACCORDANCE WITH C.O.W. STANDARD SPECIFICATIONS. THE APPROXIMATE QUANTITY FOR THIS WORK IS 0.1 ACRE.

APPROVED AS NOTED

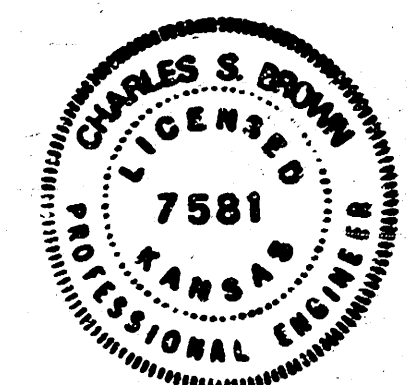
By CITY ENGINEER OF WICHITA

Sanitary Sewers _____
 Storm Sewers VRH 1/5/87
 Driveway Approaches _____
 Water Mains _____
 Pavement _____

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.

OCTOBER, 1986
 PLANS PREPARED BY
 PROFESSIONAL ENGINEERING CONSULTANTS, P.A.
 ENGINEERS
 WICHITA, KANSAS



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PROJECT NO.	SHEET NO.	TOTAL SHEETS
488-75-245-80001-000-000-100	2	7

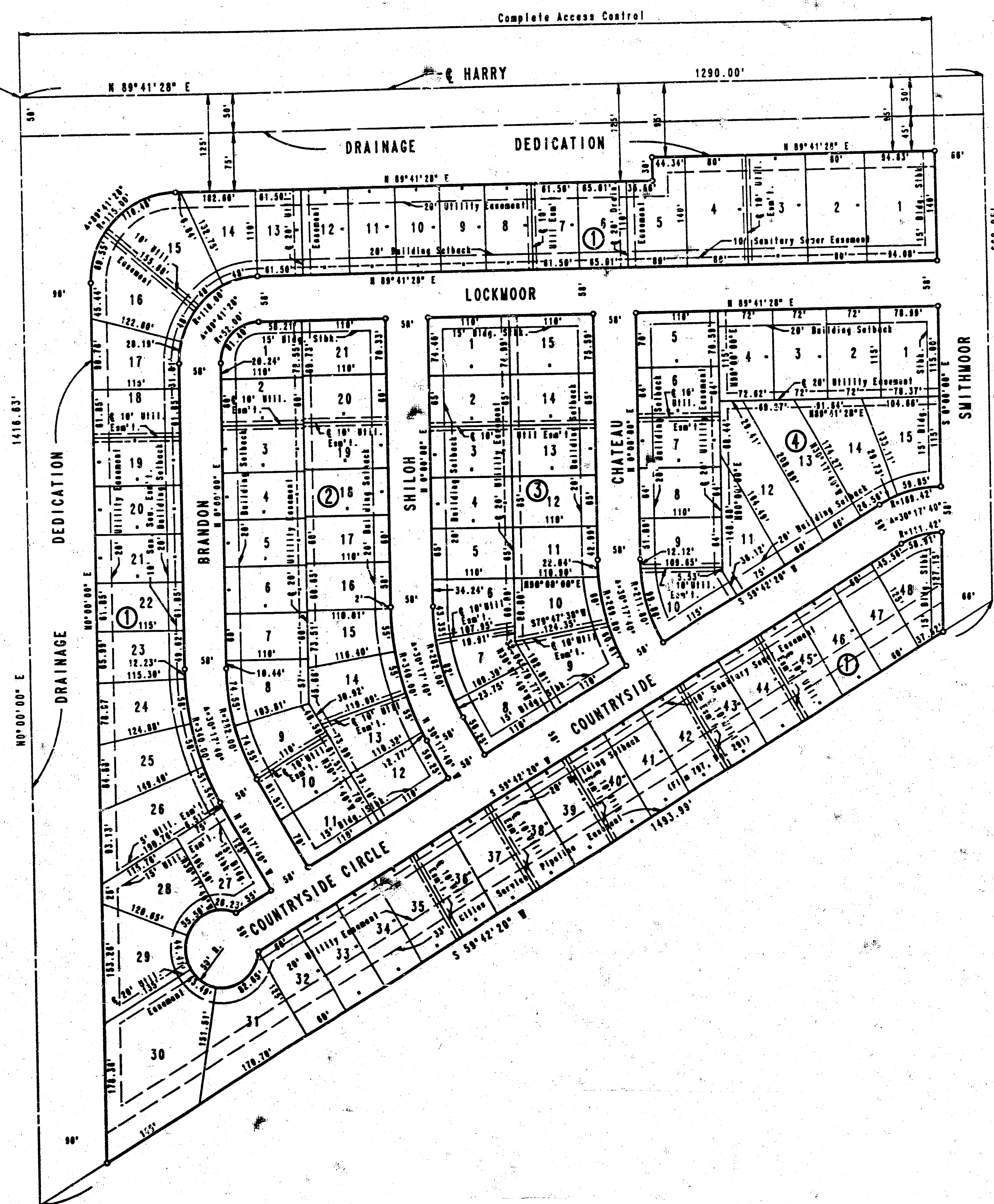
SMITHMOOR FIRST ADDITION

WICHITA, SEDGWICK COUNTY, KANSAS

N.W. Cor. N.E. 1/4 Sec. 33
T27S, R2E of the 6th P.M.

SCALE: 1" = 100'
○ = IRON SET

B.M. - N.W. COR. N. HEADWALL R.C.B. 800' x E.
N.W. COR. N.E. 1/4 SEC. 33, T27S, R2E
ELEV. = 1339.47 M.S.L.
MINIMUM PAD ELEVATION FOR
LOTS 1 THROUGH 30, BLOCK 1 EQUALS
1341.0 M.S.L. OR 153.00 CITY DATUM



PLAT

PROFESSIONAL ENGINEERING CONSULTANTS, P.A.
ENGINEERS
WICHITA, KANSAS
Designed by _____ Checked by _____
Drawn by DEP Date OCT., 1988 Job No. 85960-2

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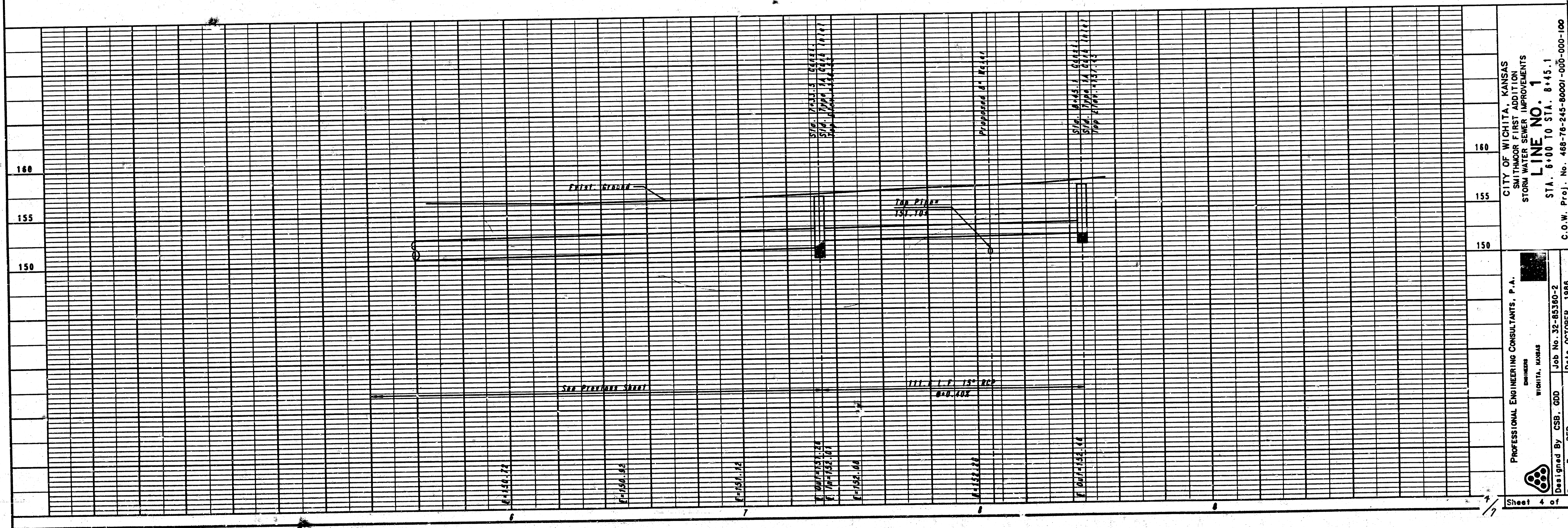
SCALE: 1" = 20'

Sta. 7+33.5 Line No. 1
(@ Chateau Sta. 1+00)
Const. Sid. Type 1A Curb Inlet
(W=5'-4", L=6'-4")
Install 117.6 L.F. 15" RCP(S)
See Sheet No. 6

Sta. 8+45.1 Line No. 1
(@ Countryside Sta. 15+47.20)
Const. Sid. Type 1A Curb Inlet
(W=4'-4", L=6'-4")
See Sheet No. 6

Sta. 0+00.00 @ Chateau
Sta. 15+27.19 @ Countryside

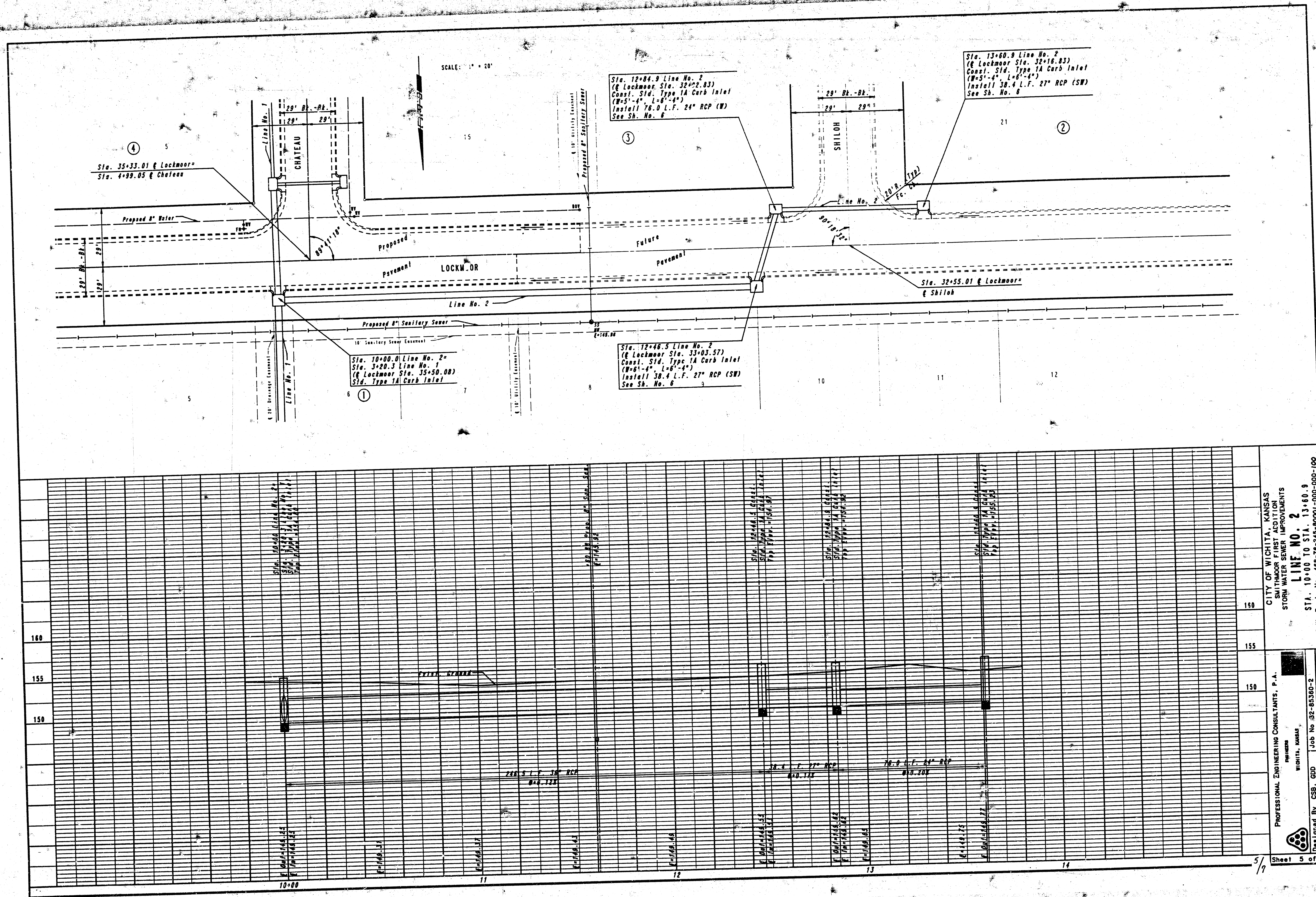
CURVE DATA
A=30°17'40"
D=23°47'38"
R=240.40'
L=127.32'
T=65.19'



CITY OF WICHITA, KANSAS
SMITHMOOR FIRST ADDITION
STORM WATER SEWER IMPROVEMENTS
LINE NO. 1
STA. 6+00 TO STA. 8+45.1
C.O.W. Proj. No. 468-76-245-80001-000-000-100

PROFESSIONAL ENGINEERING CONSULTANTS, P.A.
WICHITA, KANSAS
Job No. 32-85360-2
Designed By CSB, GDD
Drawn By DEP
Date OCTOBER, 1986

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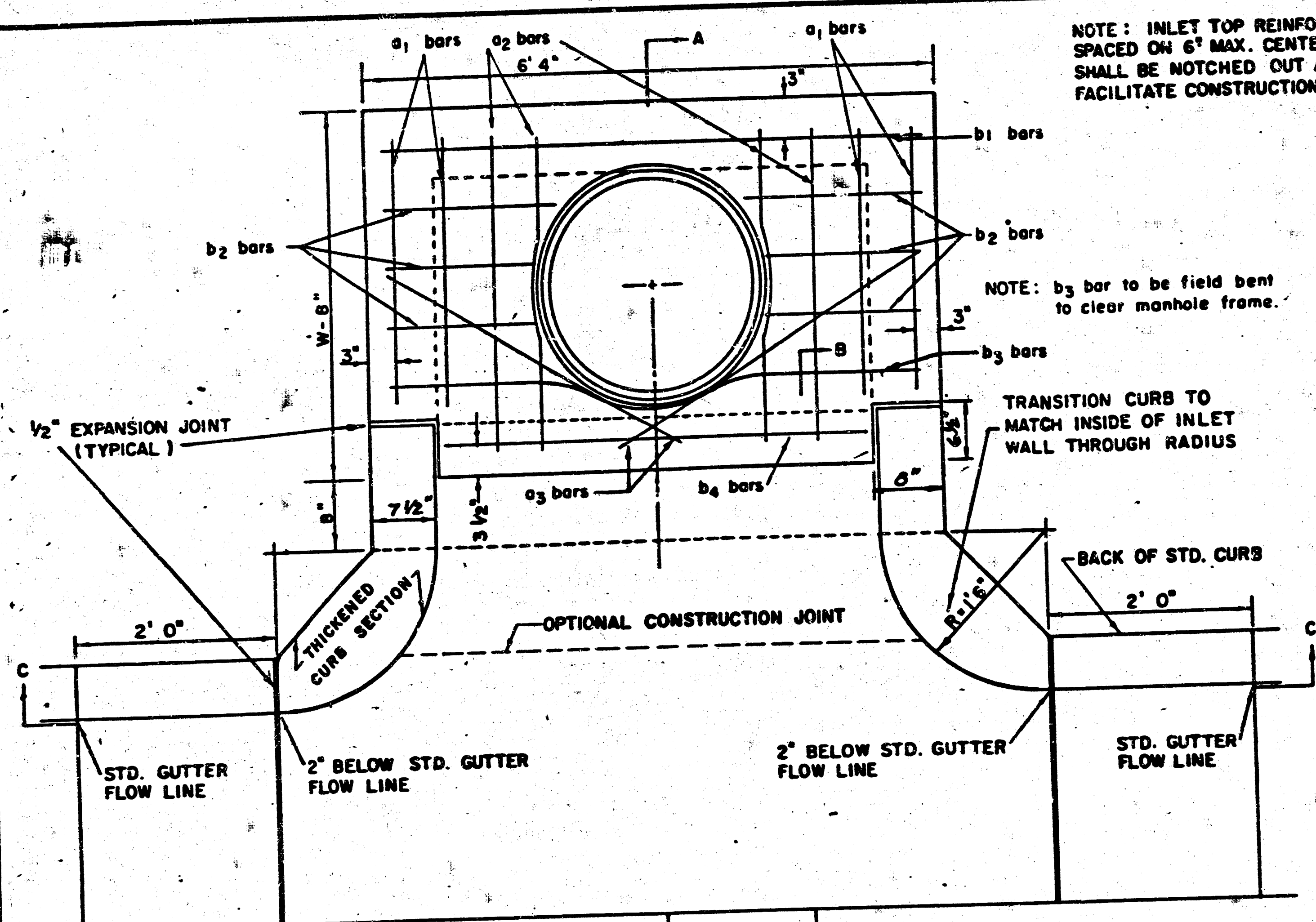


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CITY OF WICHITA, KANSAS
SMITHMOOR FIRST ADDITION
STORM WATER SEWER IMPROVEMENTS
LINE NO. 2
STA. 10+00 TO STA. 13+60.9
C.O.W. Proj. No. 488-76-245-80001-000-000-100

PROFESSIONAL ENGINEERING CONSULTANTS, P.A.
WICHITA, KANSAS
Job No. 32-85360-2
Date OCTOBER, 1986
Designed By CSB, GDD
Drawn By DEP

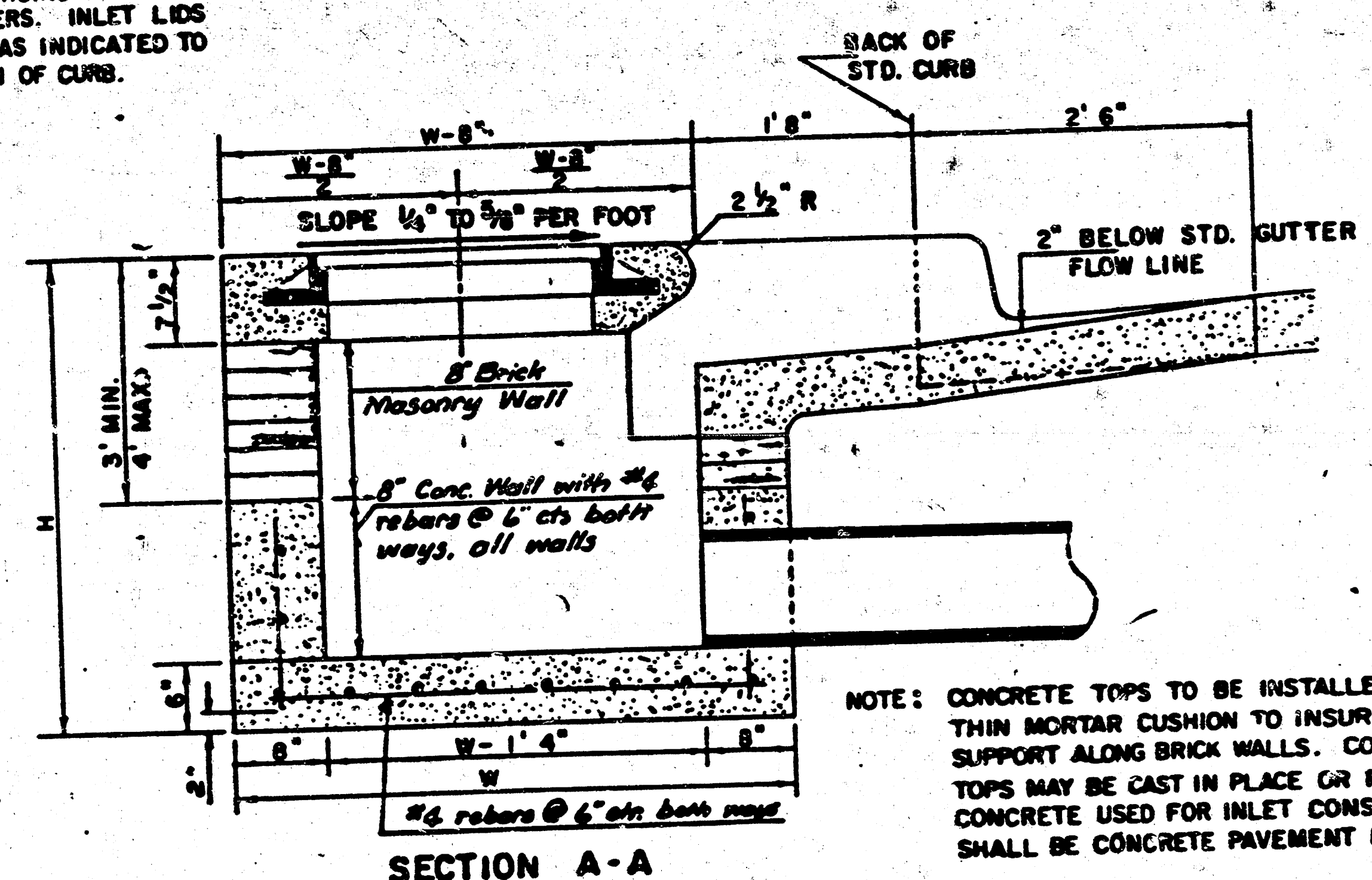
Sheet 5 of 7



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



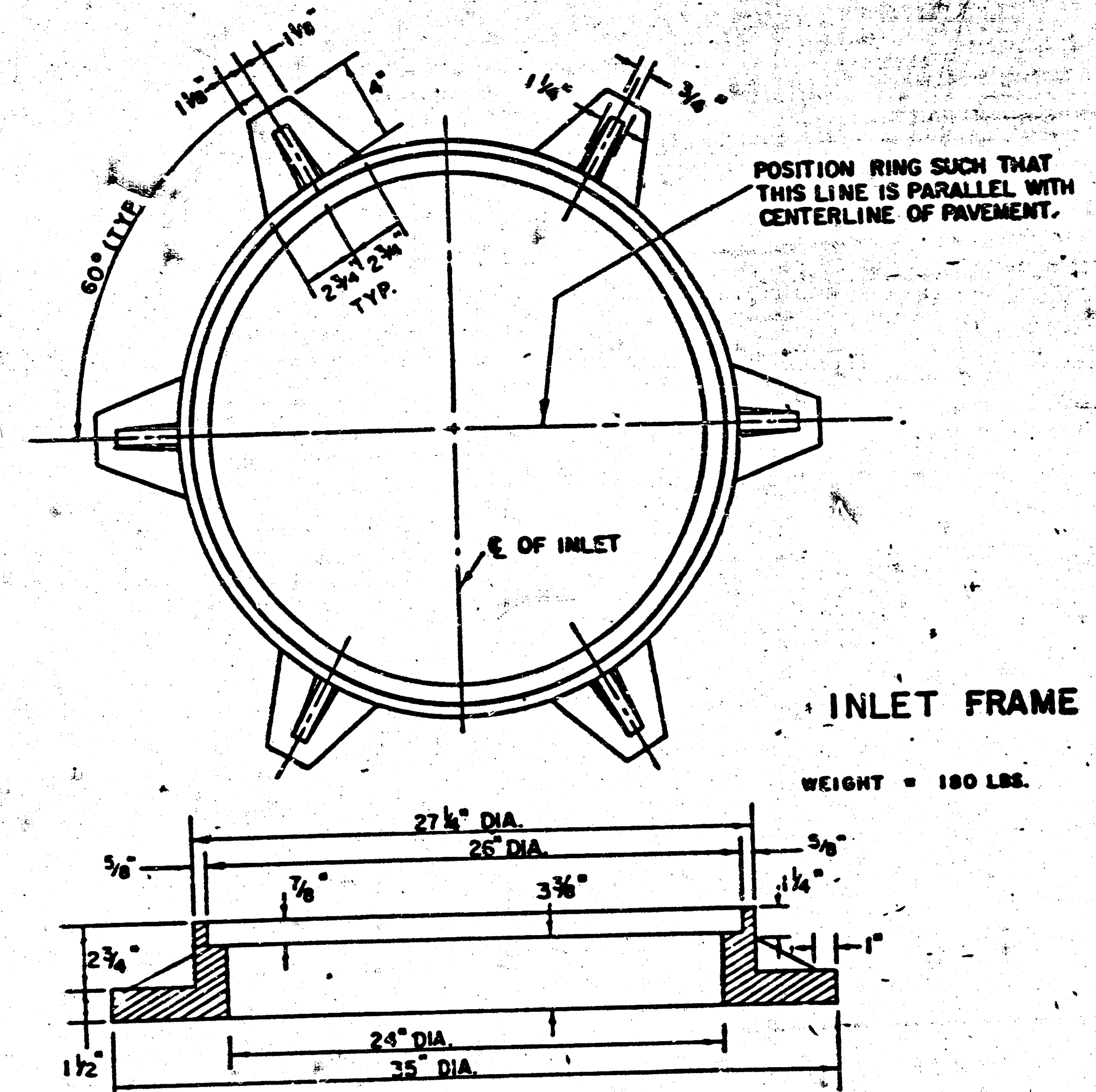
NOTE: CONCRETE TOPS TO BE INSTALLED ON THIN MORTAR CUSHION TO INSURE FULL SUPPORT ALONG BRICK WALLS. CONCRETE TOPS MAY BE CAST IN PLACE OR PRECAST. CONCRETE USED FOR INLET CONSTRUCTION SHALL BE CONCRETE PAVEMENT MIX.

NOTE: CONTRACTOR SHALL HAVE THE OPTION OF CONSTRUCTING 8" BRICK MASONRY WALLS BETWEEN THE CONCRETE INLET BASE AND TOP IN 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.



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

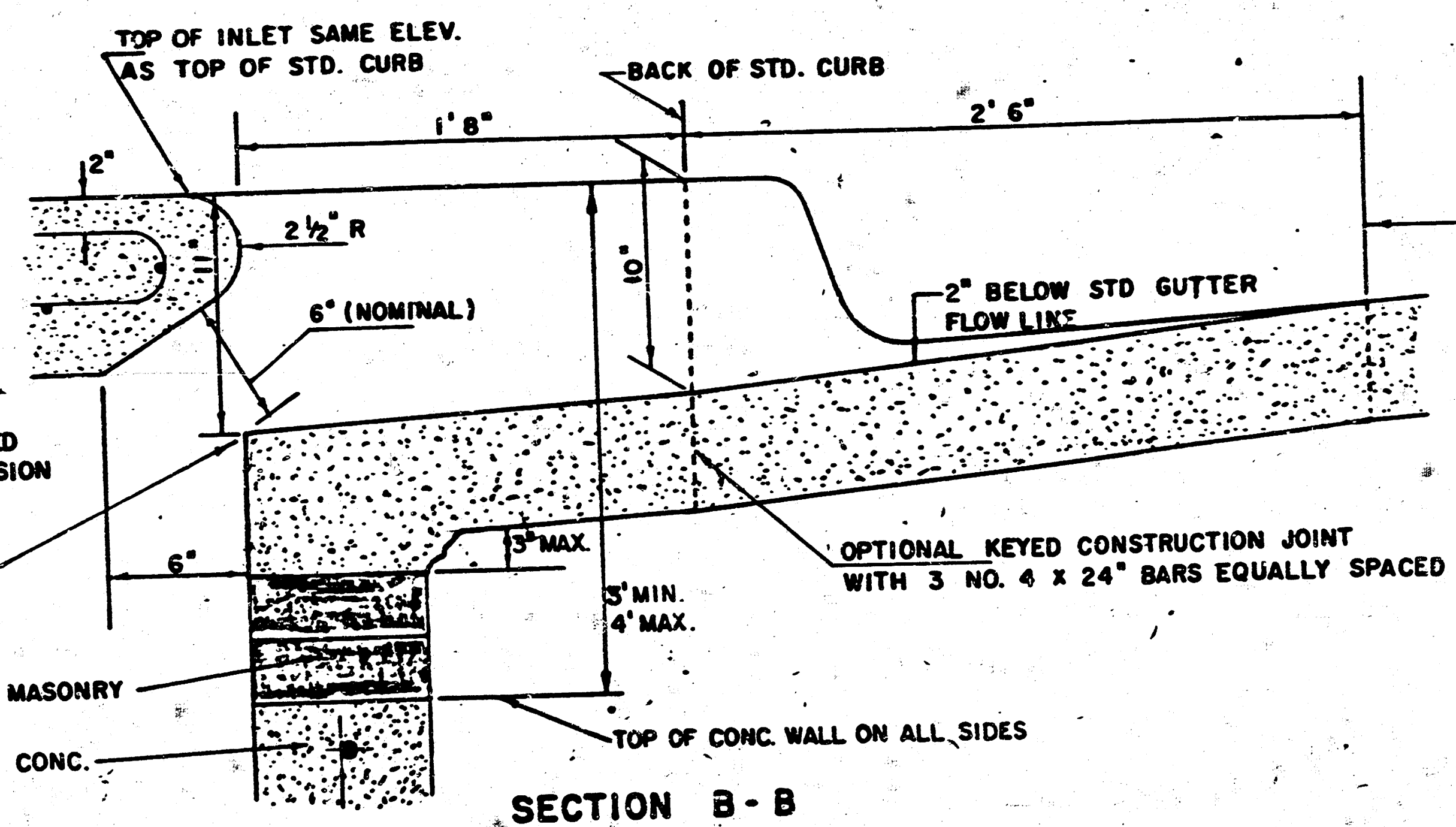
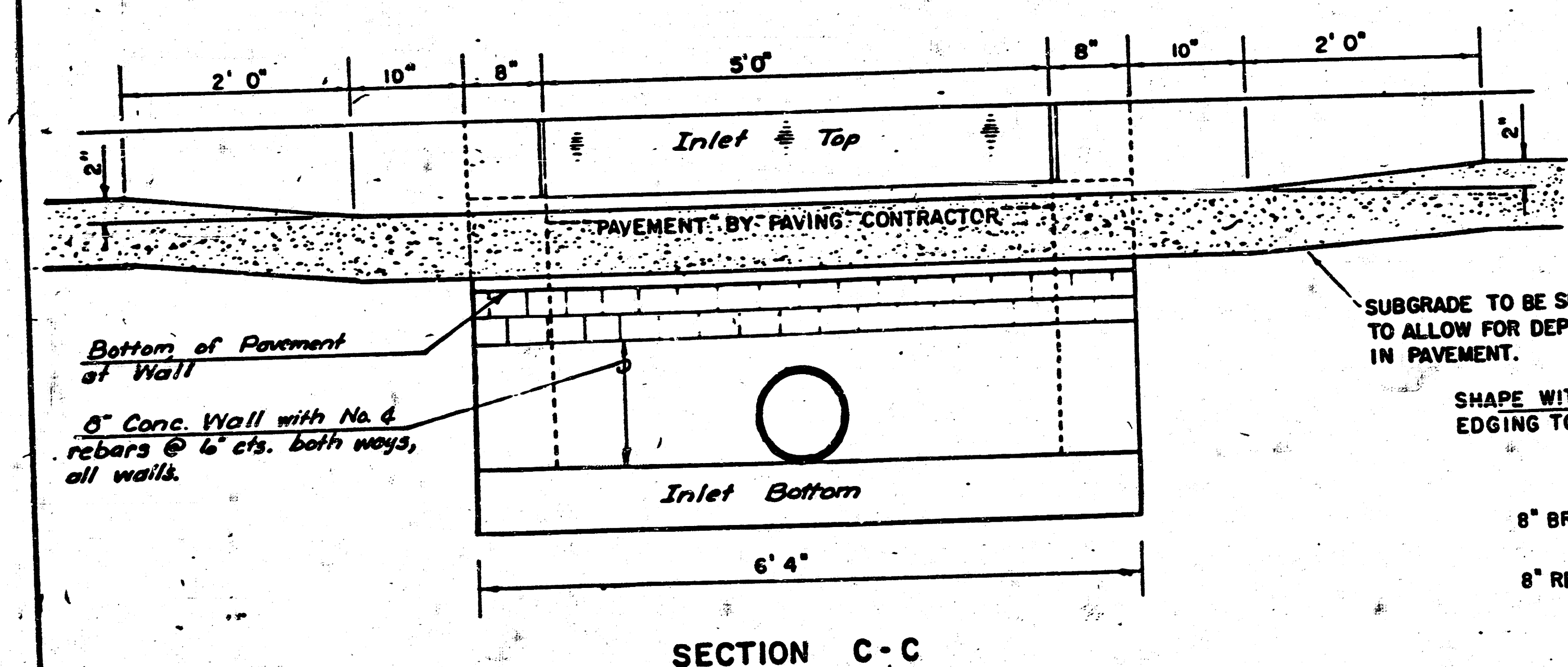
STEEL SCHEDULE

BAR	a1	a2	a3	b1	b2	b3	b4	WT. LBS.
NUMBER	4	4	2	1	3	5	7	9
SIZE	#4	#4	#4	#4	#4	#4	#4	#6
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

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



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

REVISED 12-21-1984

Project No. 465 76 245 80001 000 000 000

DETAIL STANDARD TYPE IA CURB INLET
CITY OF WICHITA, KANSAS
INLET OPENING = 6" x 5'0"

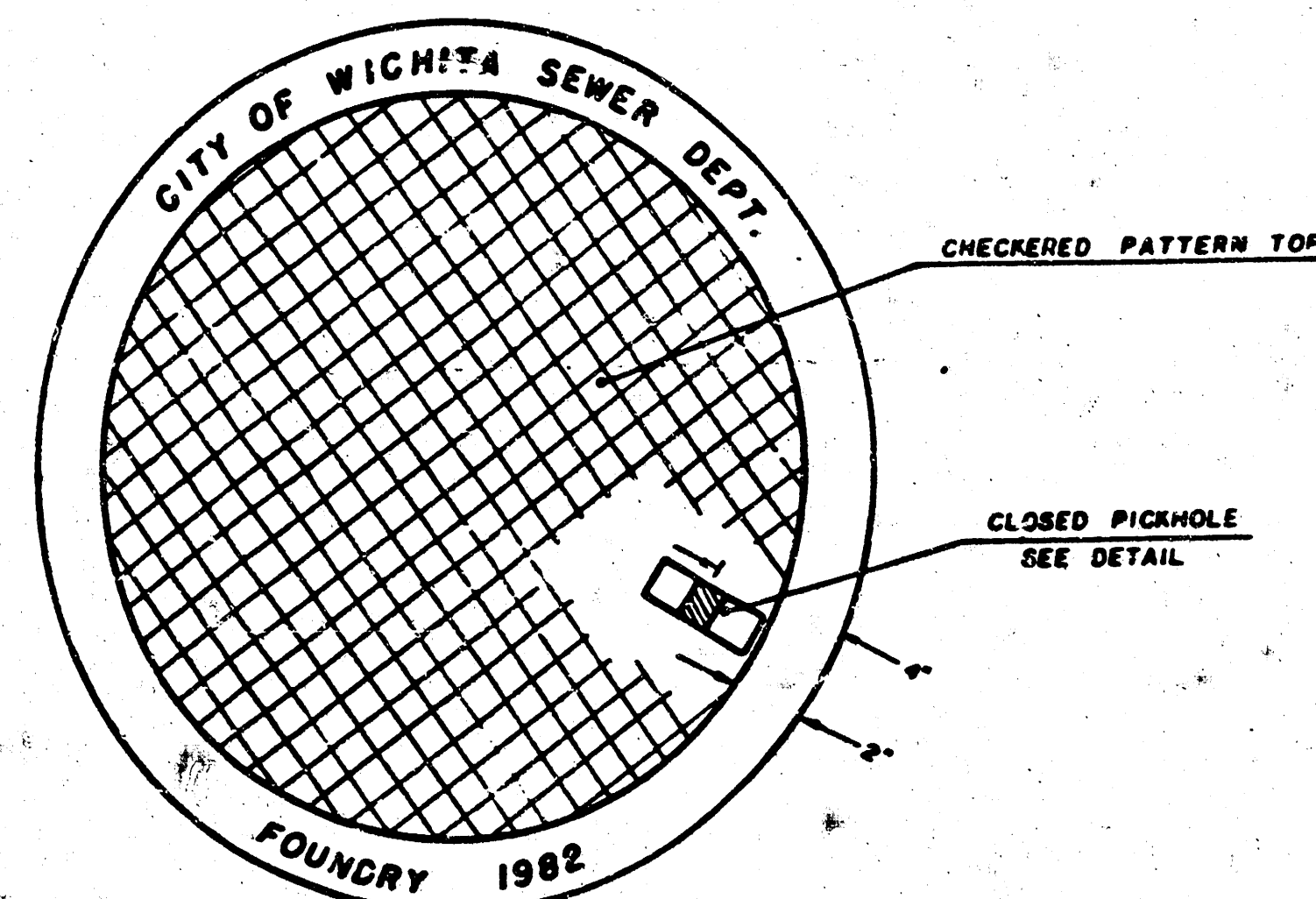
JUNE 1984

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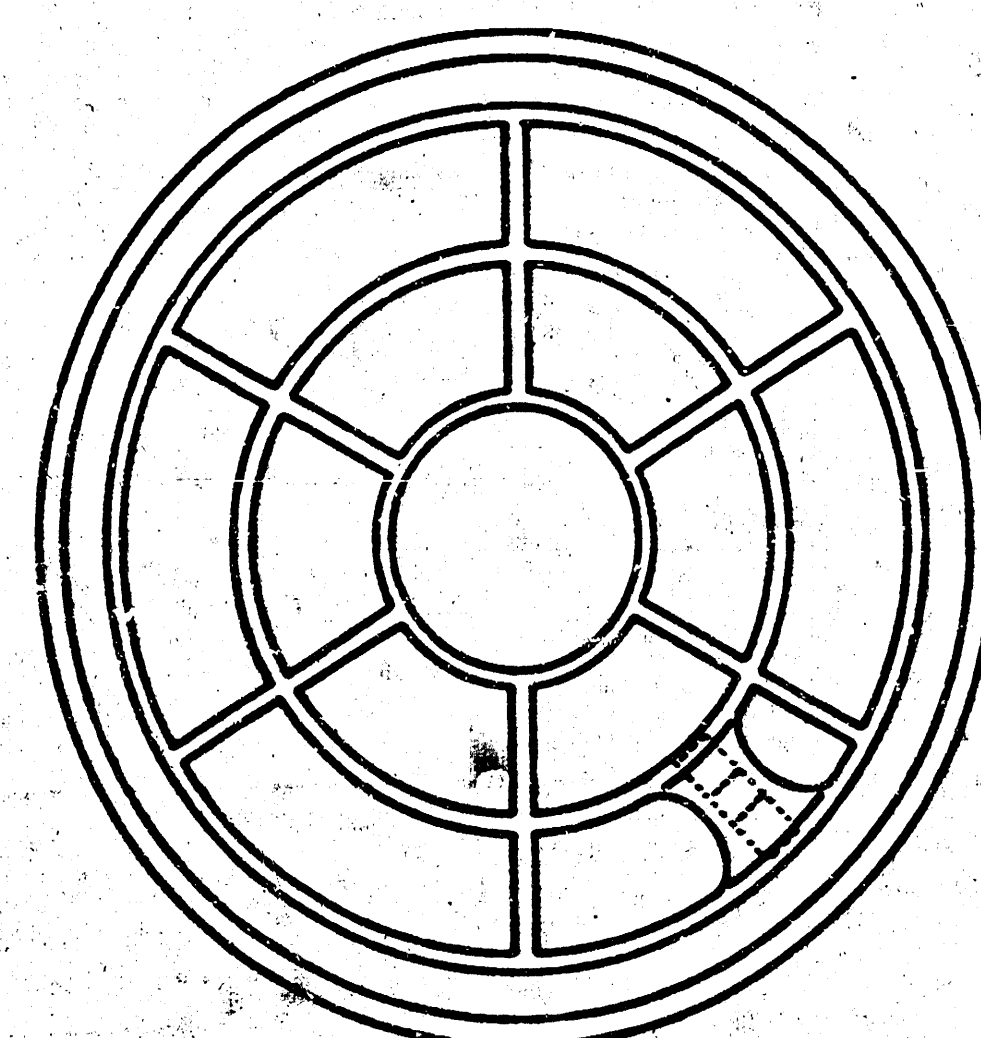
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City of Wichita, Kansas

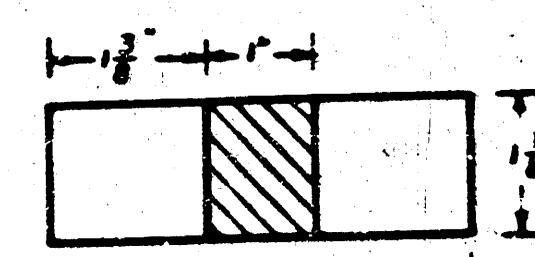
Weight: 180 Lbs.



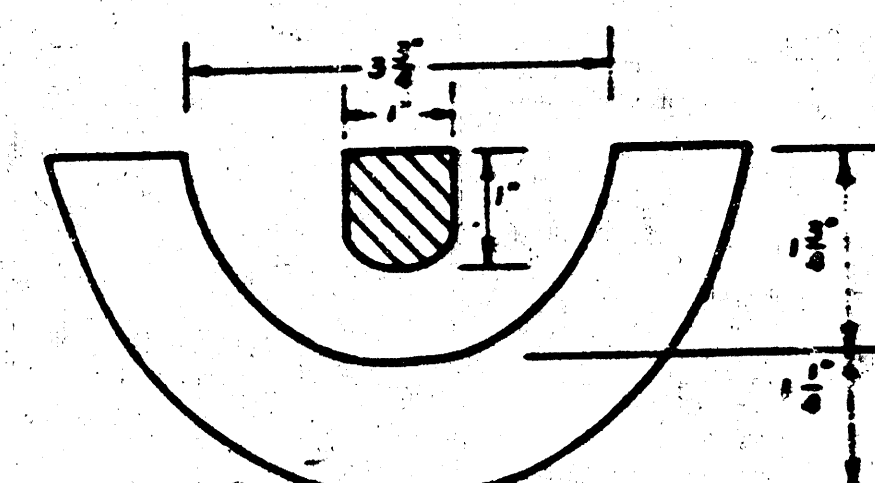
TOP VIEW



BOTTOM VIEW

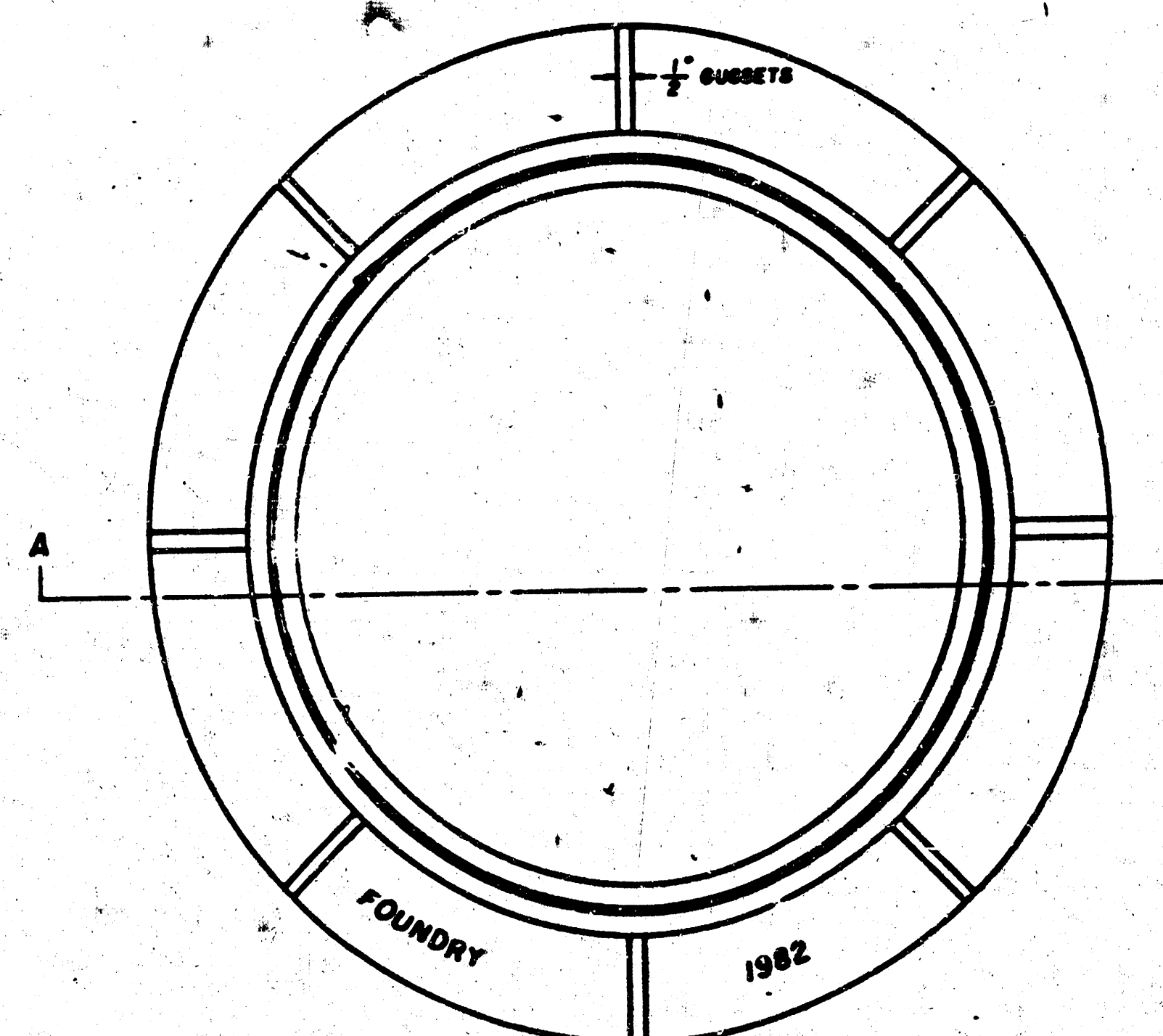


TOP VIEW

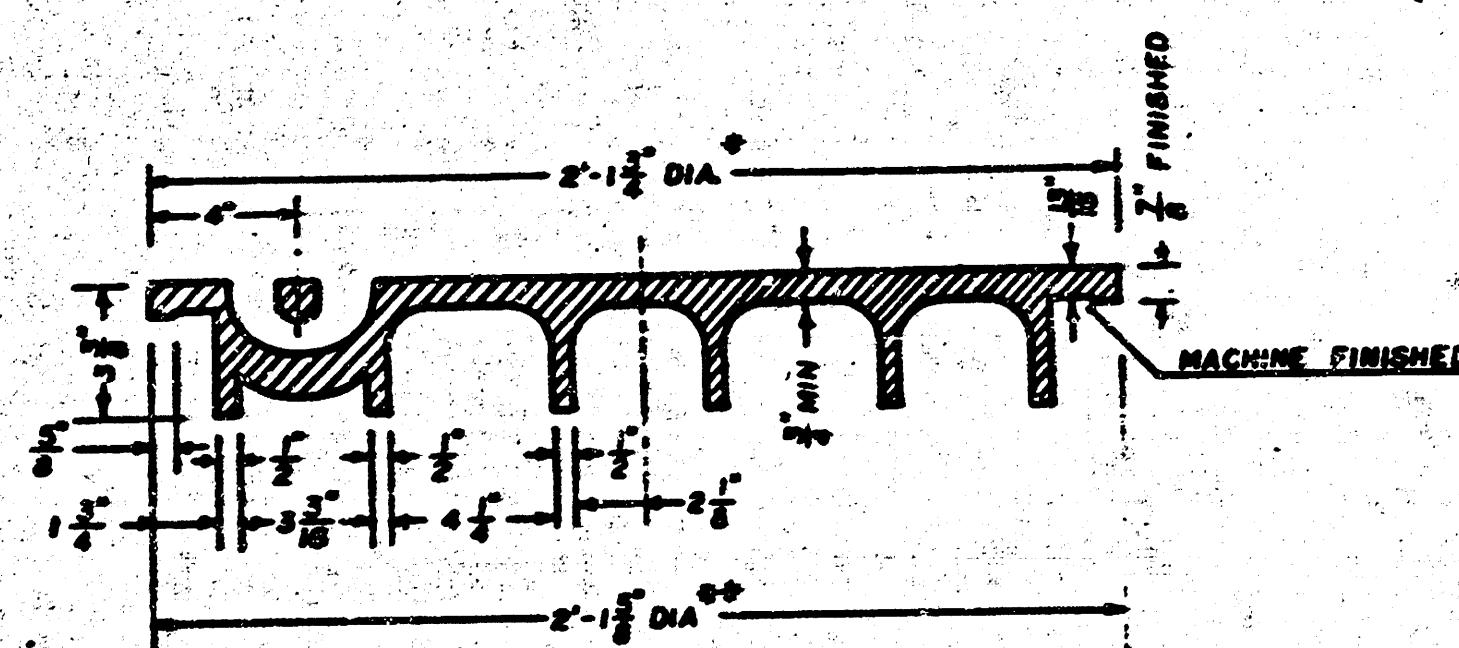


SECTION VIEW

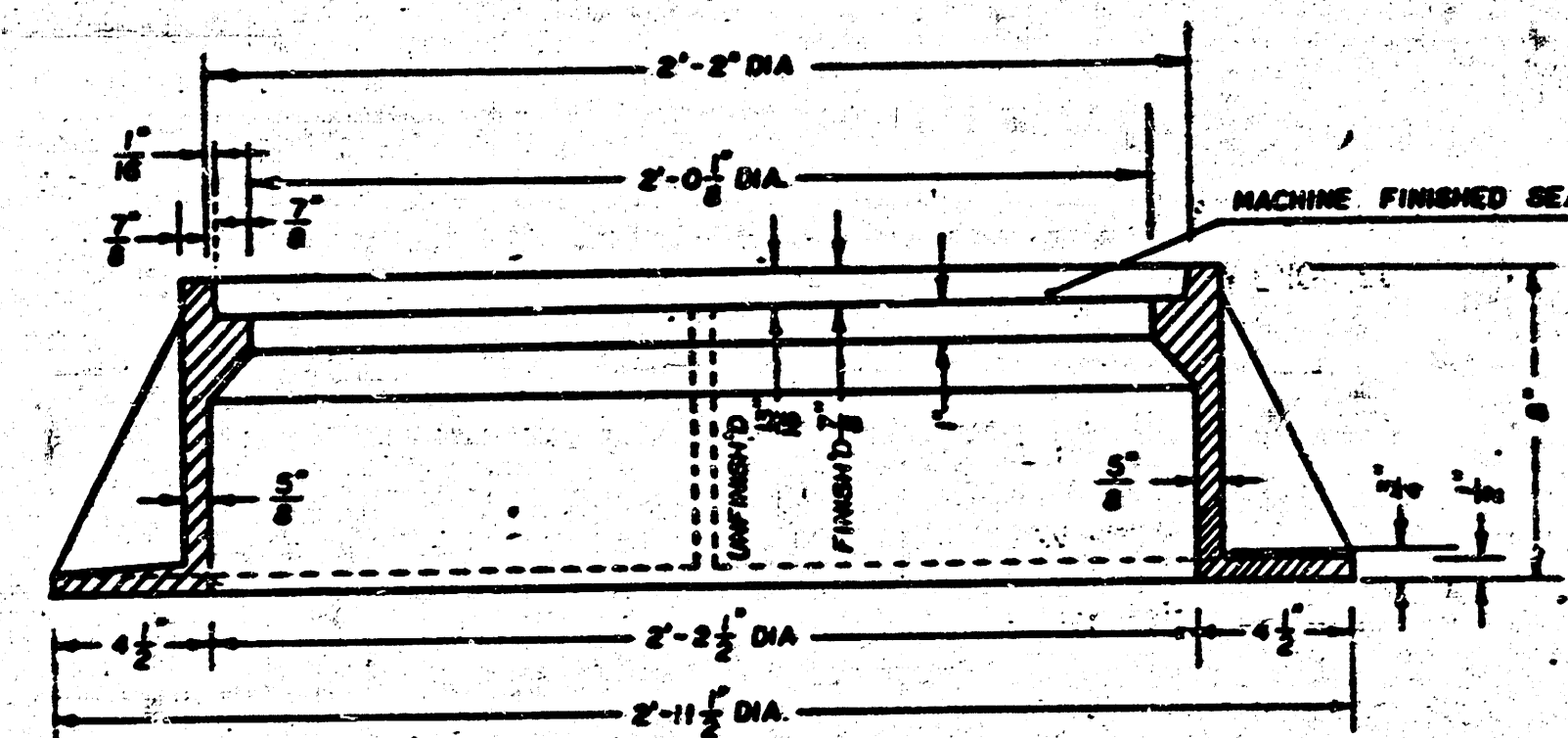
Weight: 240 Lbs.



TOP VIEW



SECTION VIEW



SECTION A-A

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 DETAILED DRAWINGS SHALL BE CONSIDERED THE MINIMUM REQUIREMENTS AND ANY DEVIATIONS FROM THESE 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 ALL MATEABLE 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 EXCESS 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 SURFACE OF THE COVER SHALL BE MANUFACTURED TO A CHECKERBOARD PATTERN AND 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.

- OUTSIDE DIA. TOP OF COVER
- OUTSIDE DIA. BOTTOM OF COVER

JNL - DEC. 1981

Project No. 40576 215 8204 000 000 100

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