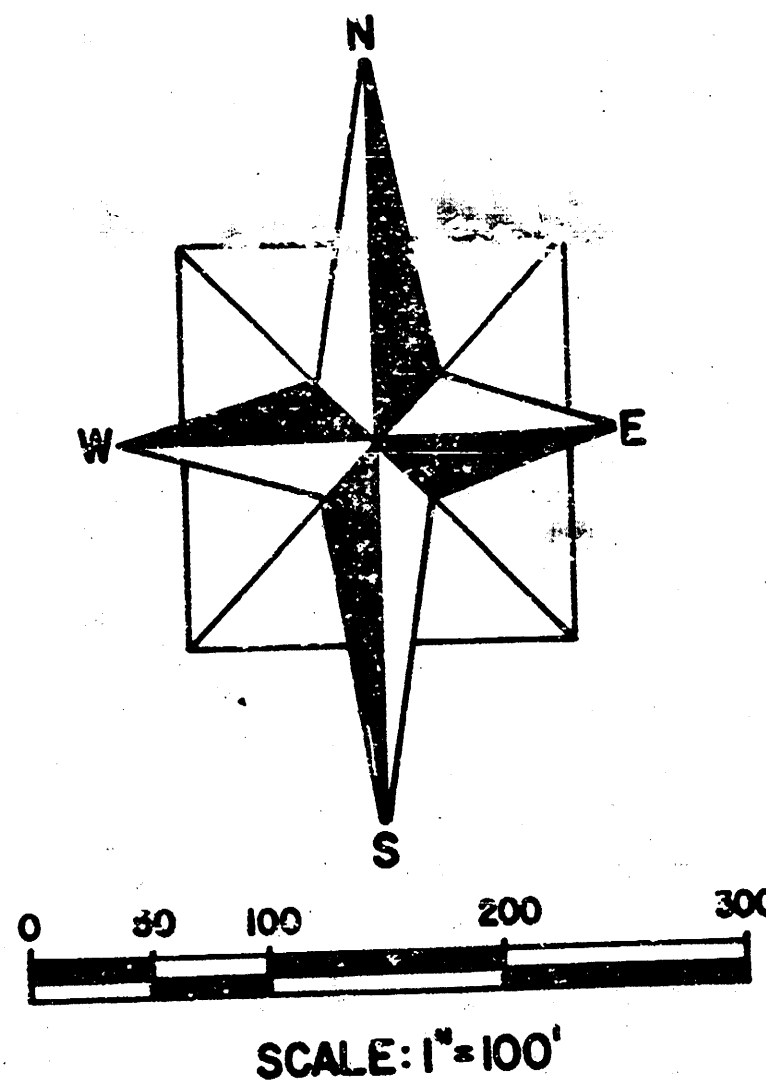


SILVER SPRINGS

LOT 2, BLOCK 1, SILVER SPRINGS
AN ADDITION TO THE CITY OF WICHITA, KANSAS
PAVING, GRADING AND STORM SEWER PLAN

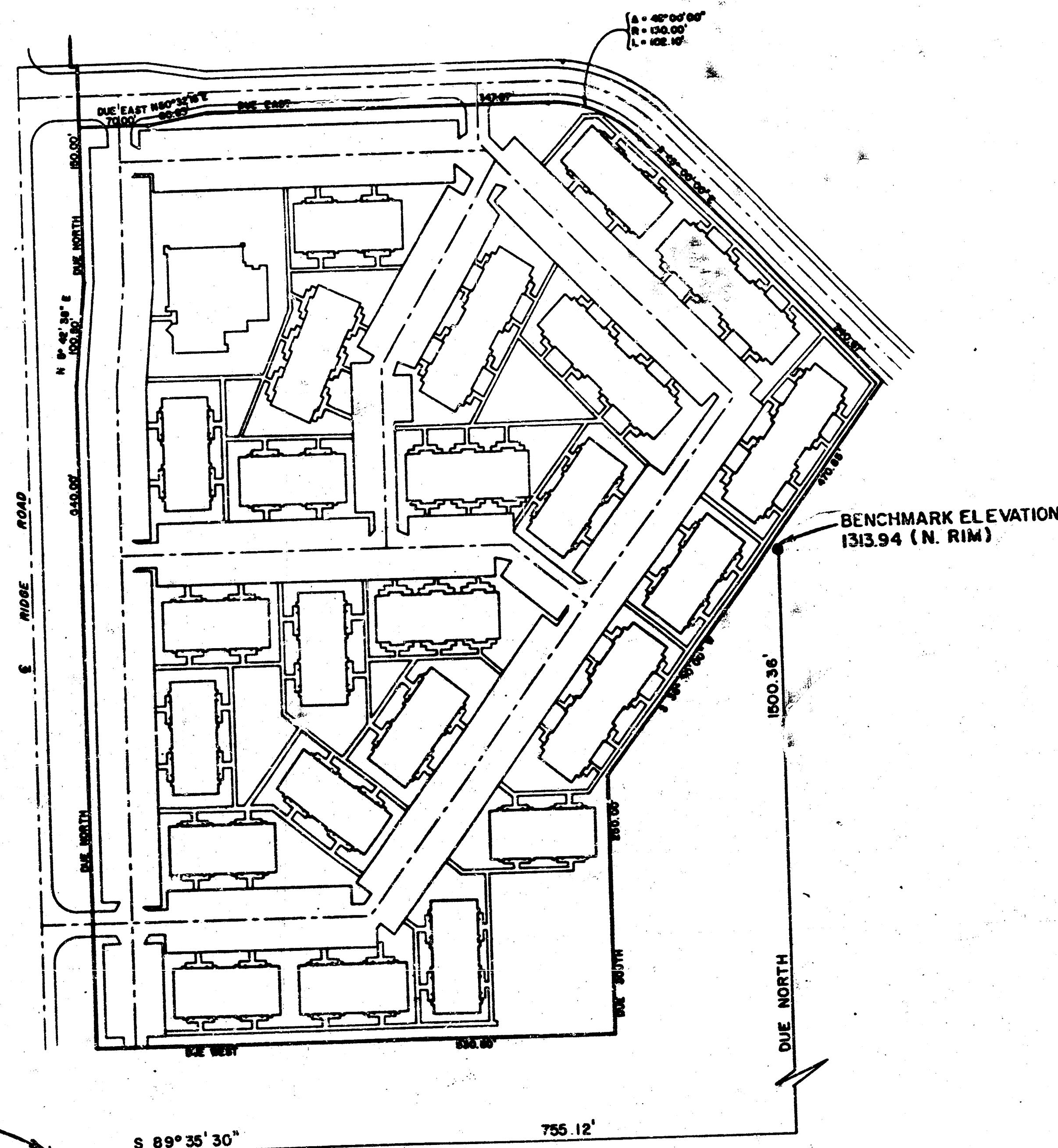


OWNER :
FLOYD R. HARDESTY
4606 SOUTH GARNETT
TULSA, OKLAHOMA
74145
PHONE: 622-3600

GENERAL NOTES
ALL CONSTRUCTION TO BE IN STRICT ACCORDANCE
WITH CITY OF WICHITA SPECIFICATION
EXISTING UNDERGROUND LINES HAVE BEEN SHOWN TO THE EXTENT
KNOWN AND LOCATIONS ARE APPROXIMATE, THE EXACT LOCATIONS
AND NOTIFICATION OF THE PROPER AGENCY IS THE RESPONSIBILITY
OF THE CONTRACTOR PRIOR TO ANY EXCAVATION.

LEGEND	
	PROPOSED STORM SEWER
	PROPOSED MANHOLE
	PROPOSED INLET
	DRAINAGE AREA LIMITS
	SANITARY SEWER EASEMENT
	STORM SEWER EASEMENT
	UTILITY EASEMENT
	DRAINAGE EASEMENT
	EXISTING GROUND CONTOUR
	PROPOSED FINISHED CONTOUR

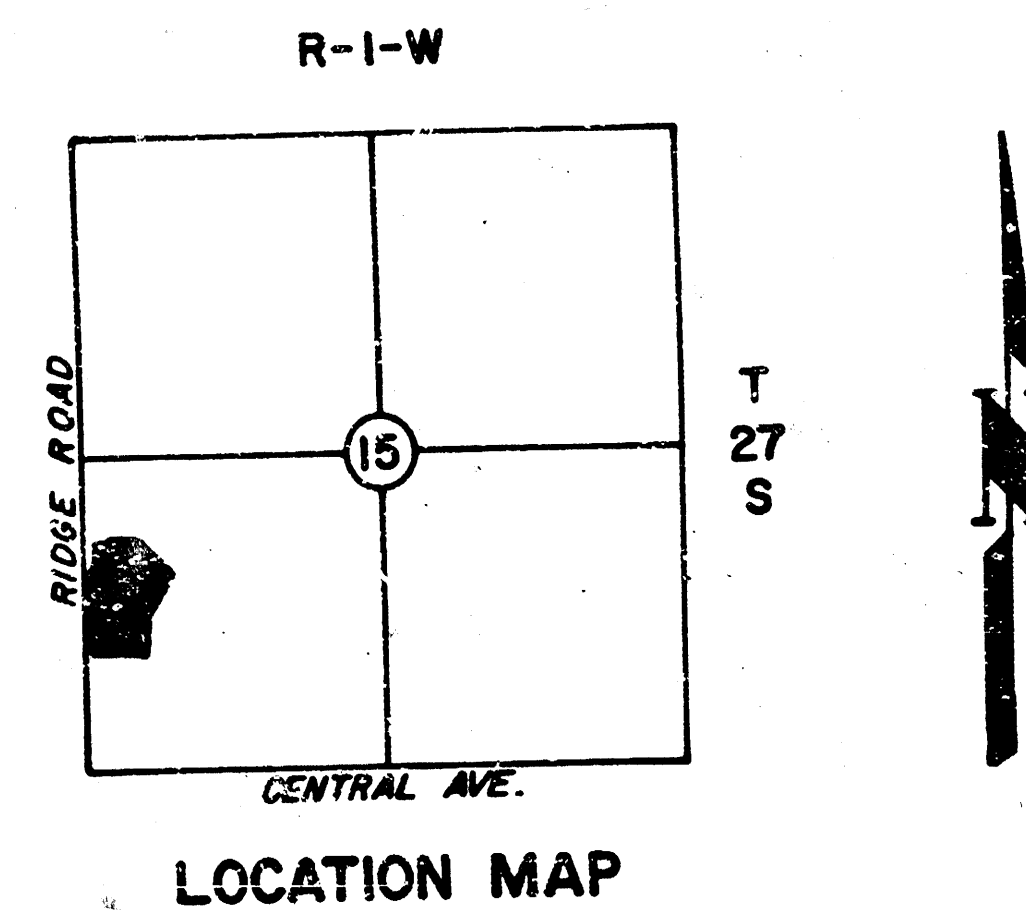
SOUTHWEST CORNER
OF SW/4 OF SECTION
15, T-27-S, R-1-W.



BENCHMARK: APPROXIMATELY 755.12 FEET EAST
AND 1500.36 FEET NORTH OF THE SOUTHWEST
CORNER OF THE SW/4 OF SECTION 15, T-27-S
R-1-W.

AL C. YOUNG & ASSOCIATES
OF TULSA, INC.

CONSULTING ENGINEERING • PLANNING • ENVIRONMENTAL ANALYSIS

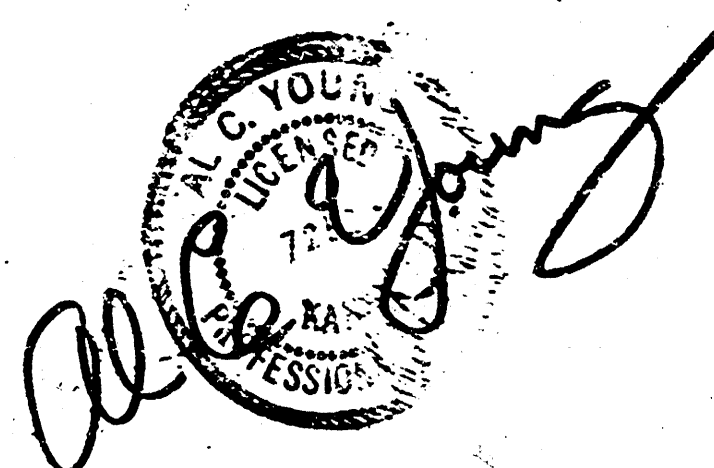


LOCATION MAP

3-23-84
APPROVED AS NOTED
By CITY ENGINEER OF WICHITA
Sanitary Sewers
Storm Sewers
Paving
Drainage Approaches

INDEX

SHEET NO.	DESCRIPTION
1	TITLE SHEET
2	GRADING, DRAINAGE AND STORM SEWER PLAN
3	PAVING PLAN
4	PAVING PROFILE
5-6	STORM SEWER PROFILES
7-10	STANDARD DETAILS
11	DECEL LANE, ENTRY DETAIL SHEET



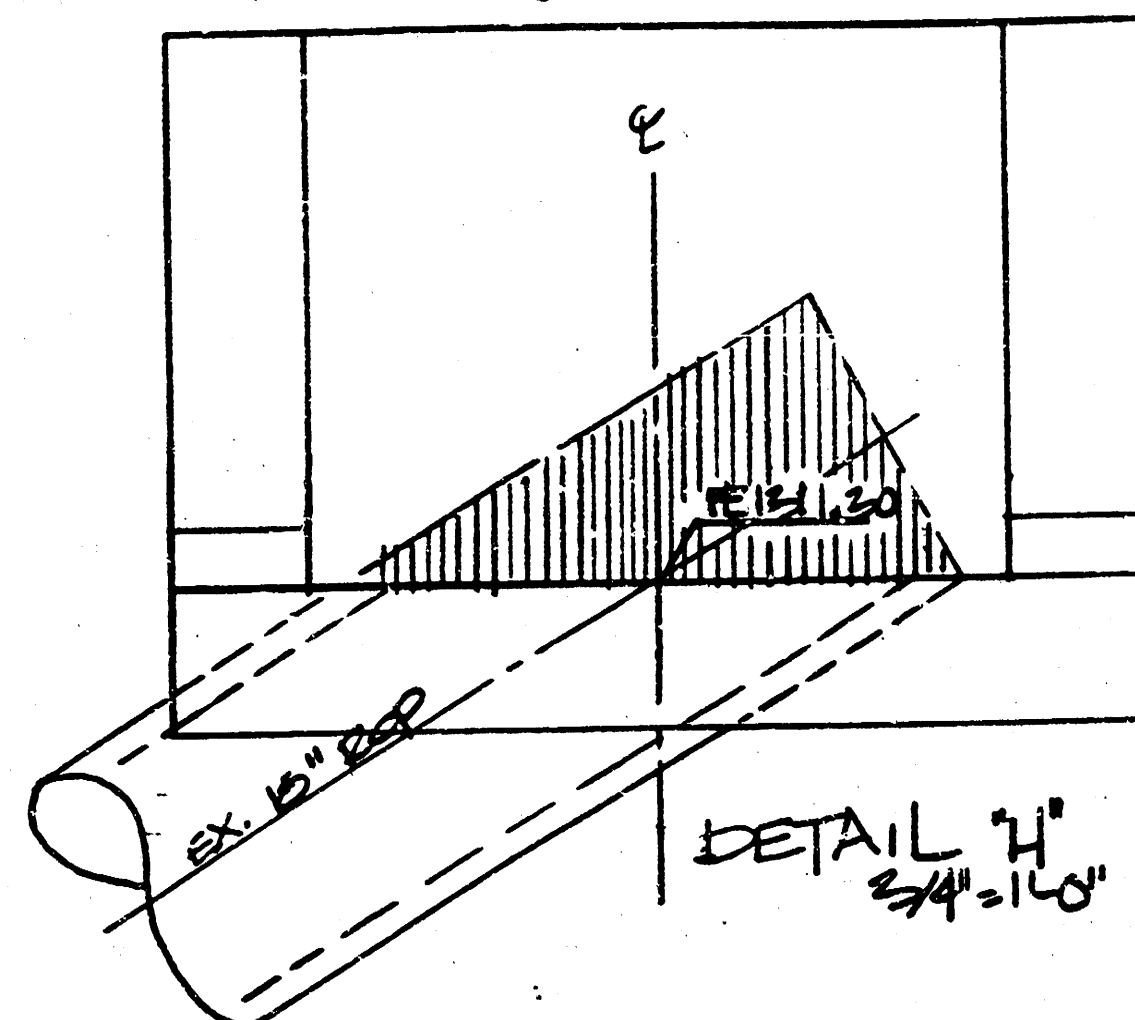
CITY OF WICHITA, KANSAS			
AL C. YOUNG & ASSOCIATES			
300 S. PERDUE, TULSA, OKLA. 74102 • 918/582-1111			
PLAN SCALE	DESIGNED	APPROVED:	
1"=100'	SILVER SPRINGS		
PROFILE SCALE	TITLE SHEET		
HORIZONTAL:			
VERTICAL:	RECOMMENDED		
FILE: 4337	DRAWING:	DATE:	
ATLAS PAGE NO:		SHEET 1 OF 11 SHEETS	

☐ APPROVED FOR CONSTRUCTION
☐ NOT APPROVED FOR CONSTRUCTION

NOTE 8

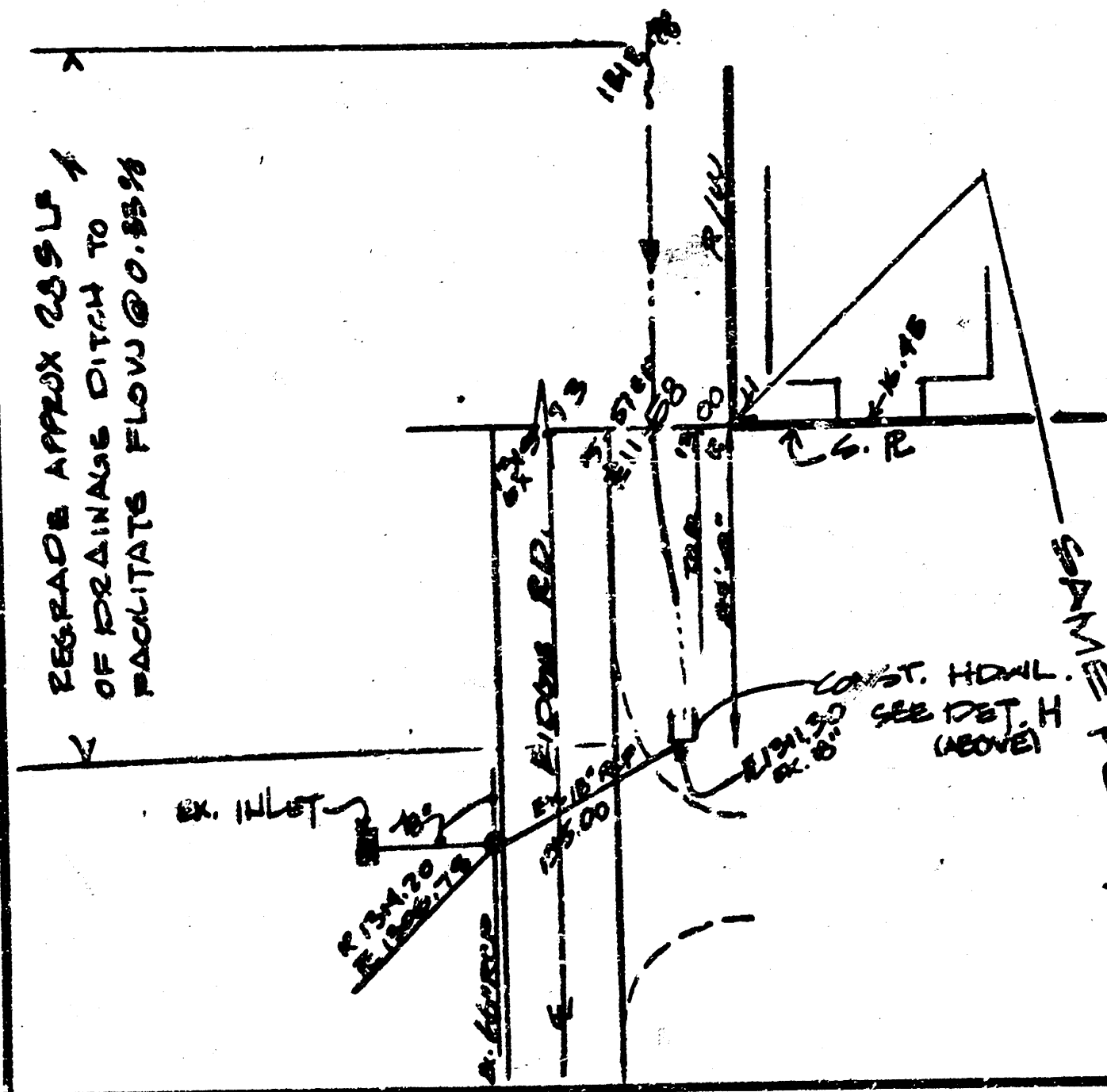
BOXED ELEVATIONS ARE FINISH GRADES AT WEST PROPERTY LINE, LOCATED BY DIMENSION

CONST. HEADWALL W/1" TYPE WINGS AT EXIST. 18" RCP. CUT AND REMOVE PORTION OF EXIST. PIPE AS INDICATED FLUSH W/EDGE OF WALL. (SHADED AREA.)



DETAIL "H" 3/4" = 1'-0"

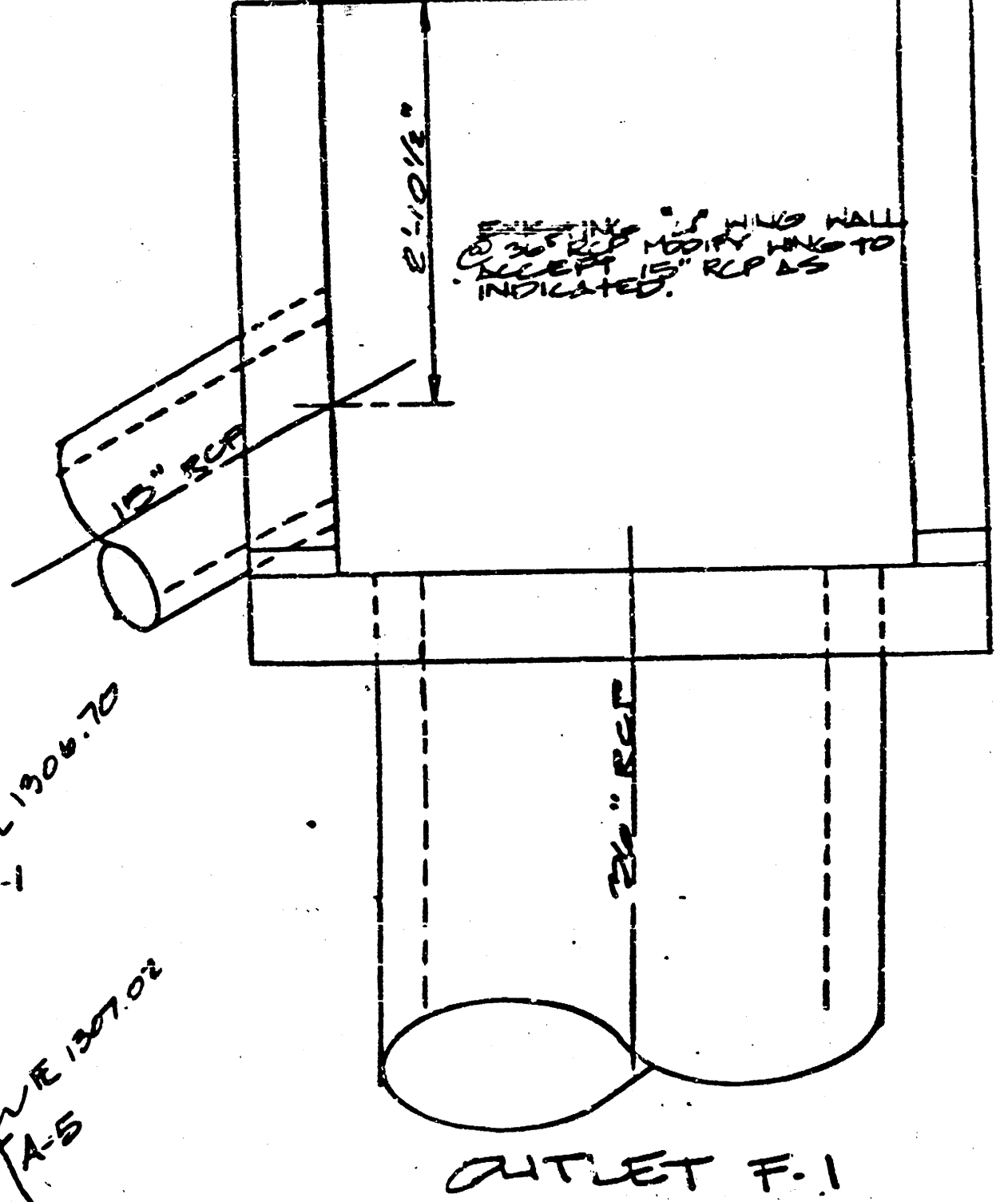
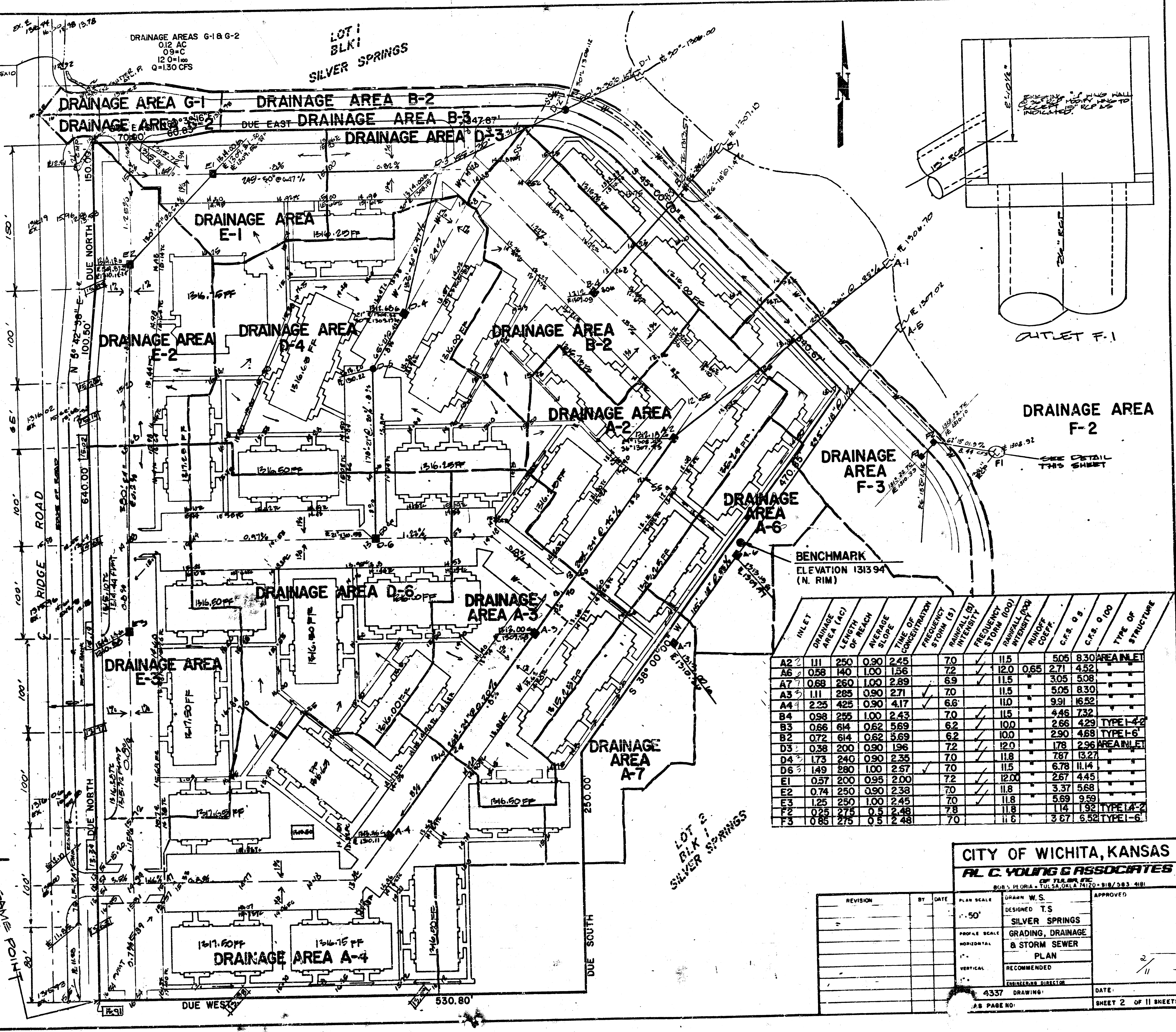
REGRADE APPROX 25% UP 1' OF DRAINAGE DITCH TO FACILITATE FLOW @ 0.15%



RECEIVING TANK 1.00 CFS

DRAINAGE AREAS G-1 & G-2
0.12 AC
0.94 C
12.04 in
Q=1.30 CFS

LOT 1
BLK 1
SILVER SPRINGS



OUTLET F-1

DRAINAGE AREA F-2

SEE DETAIL THIS SHEET

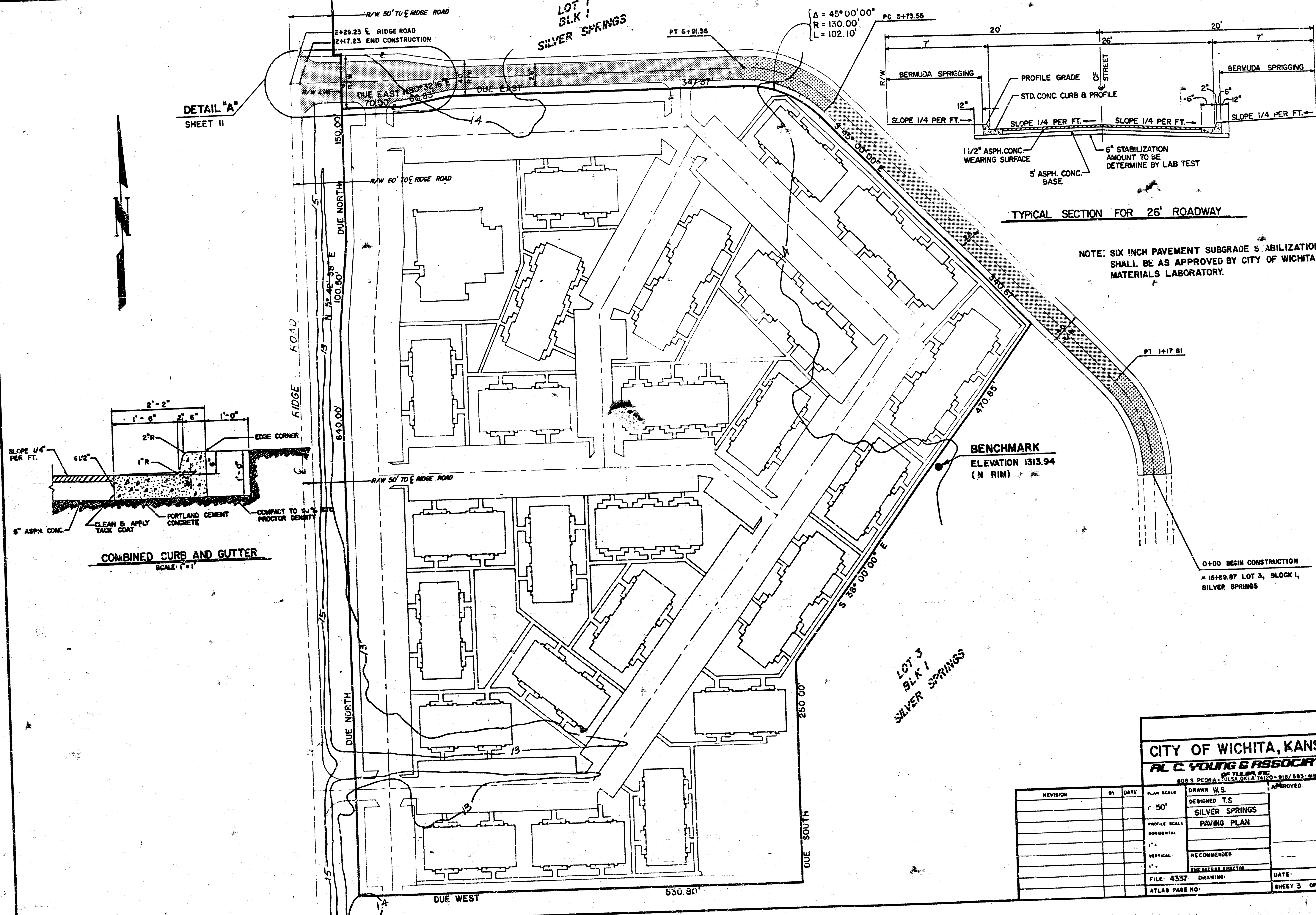
BENCHMARK
ELEVATION 1313.94
(N. RIM)

INLET	DRAINAGE AREA (AC)	LENGTH OF REACH	AVERAGE SLOPE	TIME OF CONCENTRATION	FREQUENCY STORM (5)	MINIMUM INTENSITY	FREQUENCY STORM (100)	RUNOFF COEFF.	CFS @ 5	CFS @ 100	TYPE OF STRUCTURE
A2	111	250	0.90	2.45	70	11.5	115	0.65	505	830	AREA INLET
A6	058	140	1.00	1.56	72	12.0	120	0.65	271	452	
A7	068	260	1.00	2.89	69	11.5	115	0.65	305	508	
A3	111	285	0.90	2.71	70	11.5	115	0.65	505	830	
A4	225	425	0.90	4.17	66	11.0	110	0.65	991	1632	
B4	098	255	1.00	2.43	70	11.5	115	0.65	448	732	
B3	066	614	0.62	5.69	62	10.0	100	0.65	266	429	TYPE 4-2
B2	072	614	0.62	5.69	62	10.0	100	0.65	290	468	TYPE 6
D3	038	200	0.90	1.96	72	12.0	120	0.65	178	296	AREA INLET
D4	173	240	0.90	2.35	70	11.5	115	0.65	787	1327	
D6	149	280	1.00	2.57	70	11.5	115	0.65	678	1114	
E1	057	200	0.95	2.00	72	12.0	120	0.65	267	445	
E2	074	250	0.90	2.38	70	11.5	115	0.65	337	568	
E3	125	250	1.00	2.45	70	11.5	115	0.65	569	959	
F2	025	275	0.5	2.48	78	11.8	118	0.65	114	192	TYPE 4-2
F3	085	275	0.5	2.48	70	11.5	115	0.65	367	602	TYPE 6

CITY OF WICHITA, KANSAS
R. C. YOUNG & ASSOCIATES

REVISION	BY	DATE	PLAN SCALE	DESIGNED	APPROVED
			1" = 50'	W.S.	
				SILVER SPRINGS	
				GRADING, DRAINAGE	
				& STORM SEWER	
				PLAN	
				RECOMMENDED	
				FORWARDER DIRECTOR	
				DATE:	
				4337 DRAWING	
				SHEET 2 OF 11 SHEETS	

DETAIL "A"
SHEET II



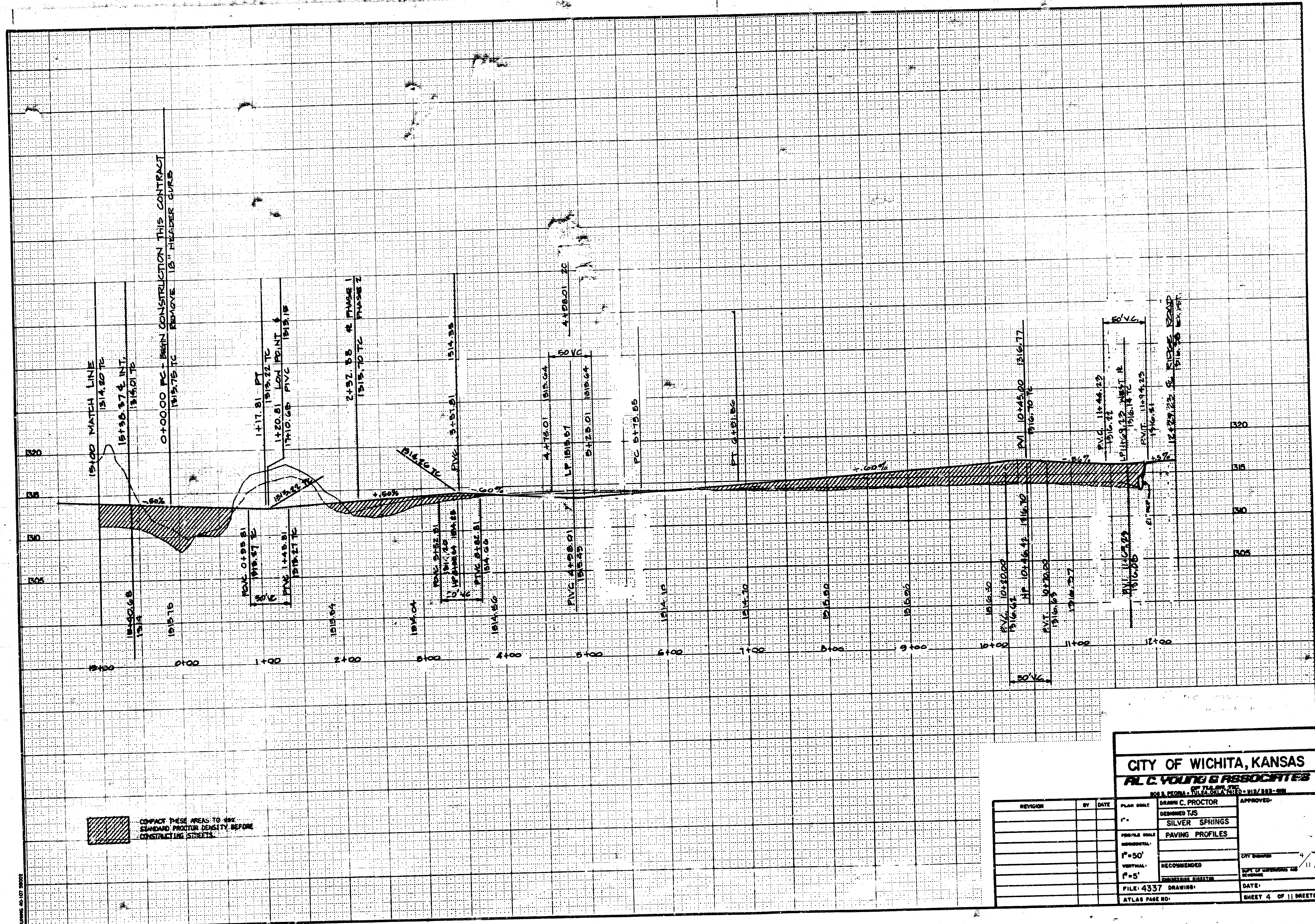
TYPICAL SECTION FOR 26' ROADWAY

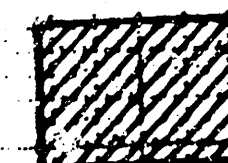
NOTE: SIX INCH PAVEMENT SUBGRADE STABILIZATION SHALL BE AS APPROVED BY CITY OF WICHITA MATERIALS LABORATORY.

COMBINED CURB AND GUTTER
SCALE: 1" = 1'

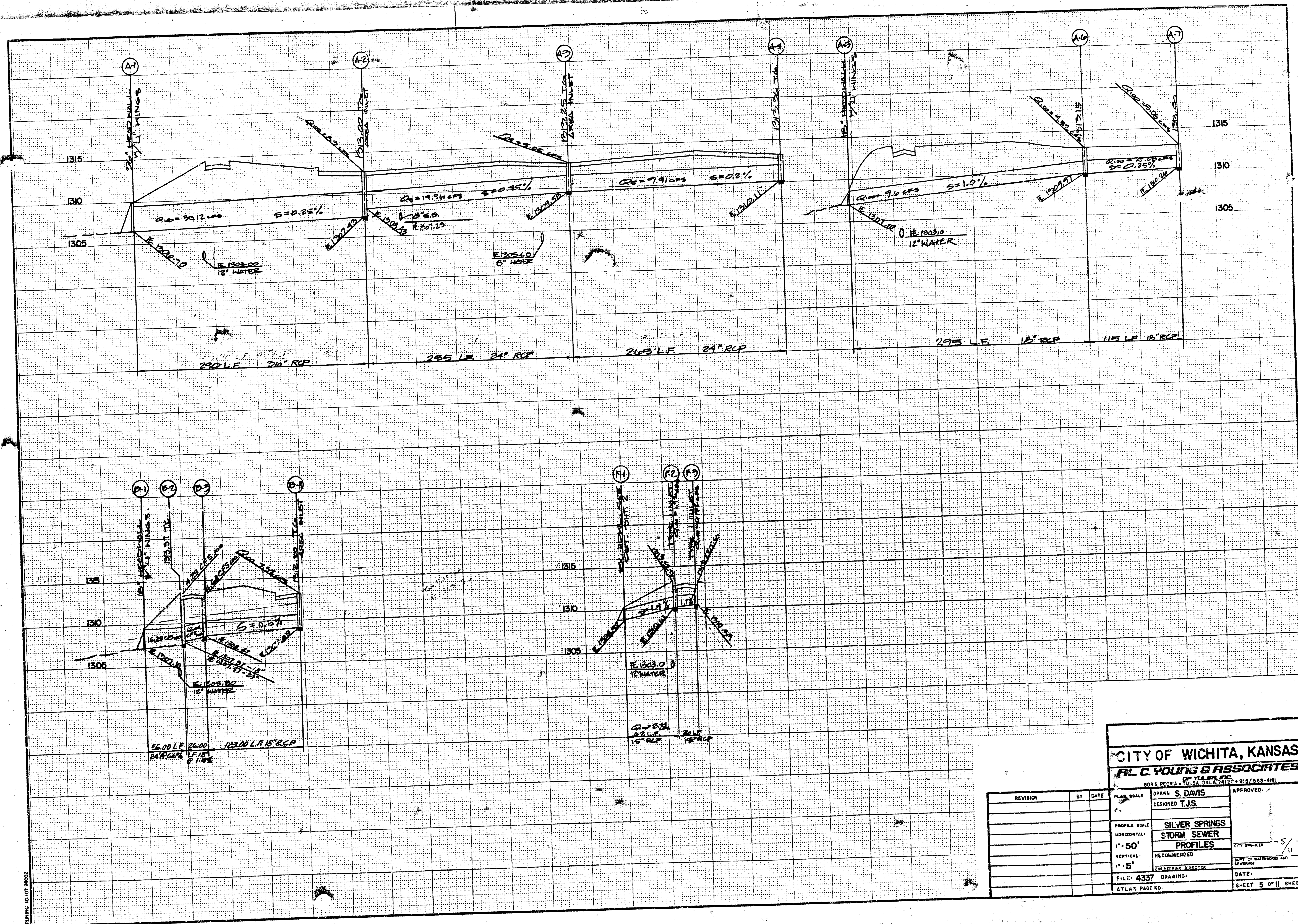
CITY OF WICHITA, KANSAS			
AL C. YOUNG & ASSOCIATES			
DESIGNED T.S.		DRAWN W.S.	
SILVER SPRINGS		SILVER SPRINGS	
PAVING PLAN		PAVING PLAN	
RECOMMENDED		RECOMMENDED	
DATE: 3/11		DATE: 3/11	
FILE: 4337		DRAWING: 4337	
ATLAS PAGE NO:		SHEET 3 OF 11 SHEETS	

FILMED FROM THE BEST

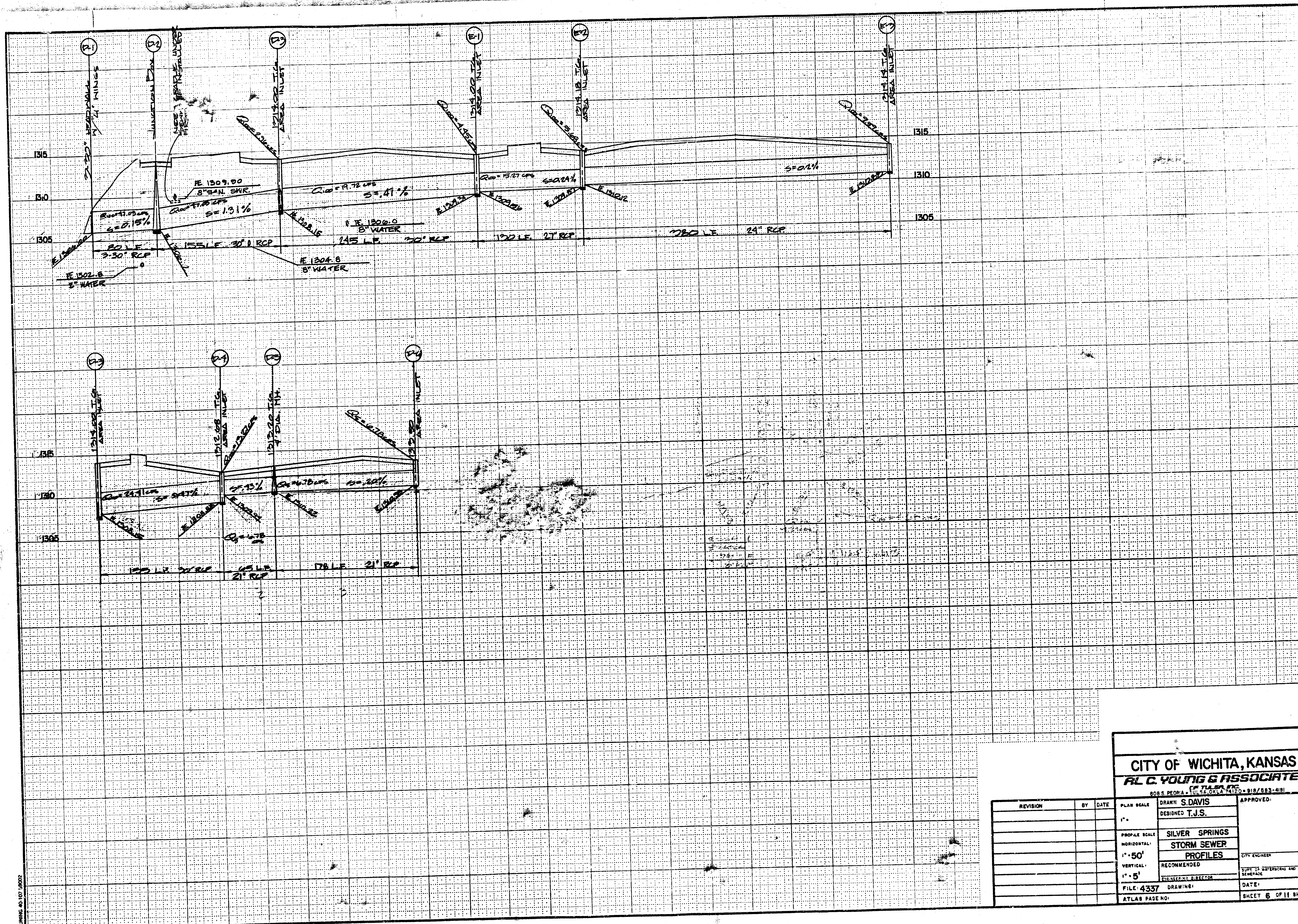



 COMPACT THESE AREAS TO 95%
 STANDARD PROCTOR DENSITY BEFORE
 CONSTRUCTING STREETS.

CITY OF WICHITA, KANSAS AL C. YOUNG & ASSOCIATES INCORPORATED IN KANSAS 100 S. PIERCE • TULSA, OKLA. 74106 • 918/483-9881		
REVISION 	BY 	DATE
PLAN SCALE 1" = 40' PROFILE SCALE 1" = 5' VERTICAL 1" = 5'	DRAWN C. PROCTOR DESIGNED TJS SILVER SPRINGS PAVING PROFILES RECOMMENDED ENGINEER DIRECTOR	APPROVED DATE SHEET 4 OF 11 SHEETS
FILE: 4337 DRAWING ATLAS PAGE NO.		



CITY OF WICHITA, KANSAS		
R.C. YOUNG & ASSOCIATES		
805 S. PEORIA • WICHITA, KANSAS 67202 • 316/263-4181		
REVISION	BY	DATE
PLAN SCALE: 1" = 40'		
PROFILE SCALE: 1" = 50'		
HORIZONTAL: 1" = 50'		
VERTICAL: 1" = 5'		
RECOMMENDED: 1" = 5'		
FILE: 4337		
DRAWING: 11		
ATLAS PAGE NO:		
DRAWN: S. DAVIS		APPROVED:
DESIGNED: T.J.S.		
PROJECT: SILVER SPRINGS STORM SEWER PROFILES		
ENGINEER: [Signature]		
DATE: 5/11		
SHEET 5 OF 11 SHEETS		



CITY OF WICHITA, KANSAS	
R.L. C. YOUNG & ASSOCIATES	
808 S. PEORIA - TULSA, OKLA. 74106 - 918/583-4381	
PLAN SCALE 1" = 40'	DRAWN S. DAVIS DESIGNED T.J.S.
PROFILE SCALE HORIZONTAL 1" = 50'	VERTICAL 1" = 5'
RECOMMENDED 24" RCP	CITY ENGINEER DATE:
FILE: 4337 ATLAS PAGE NO:	DRAWING: 11 SHEET 6 OF 11 SHEETS

PLANNED FROM THE BEST

MANHOLE FRAME AND COVER DETAIL

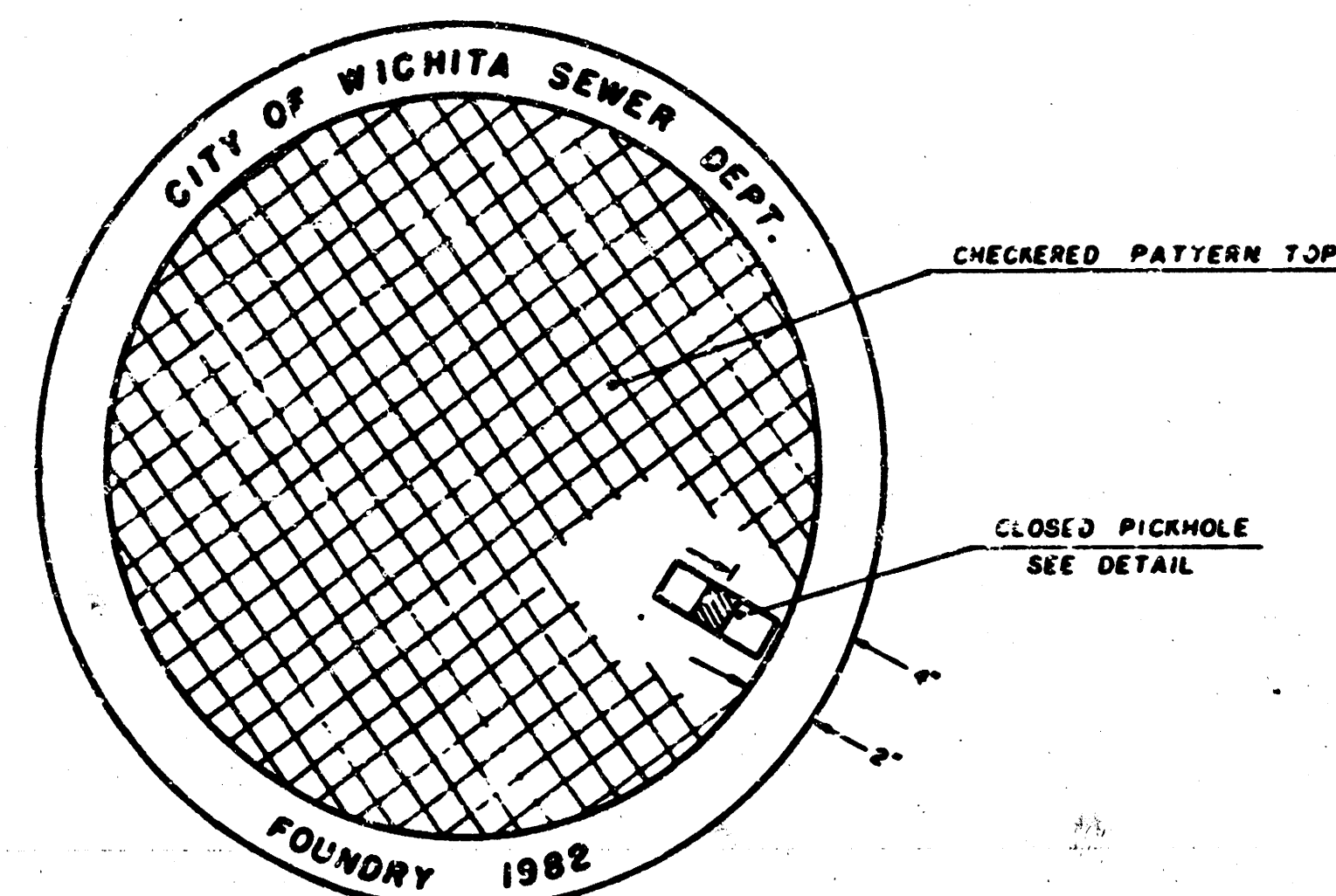
ADOPTED AS STANDARD DESIGN

BY

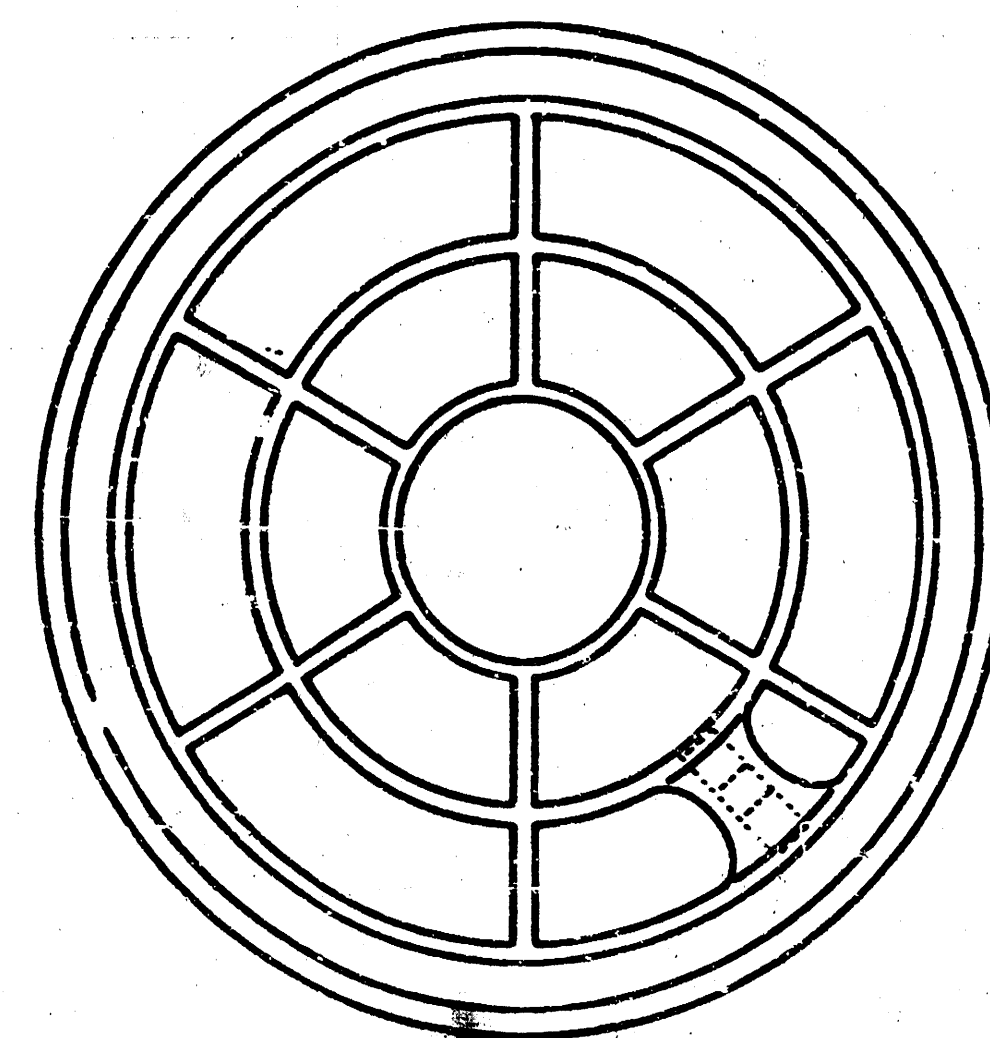
City of Wichita, Kansas

MANHOLE COVER

Weight: 180 Lbs.

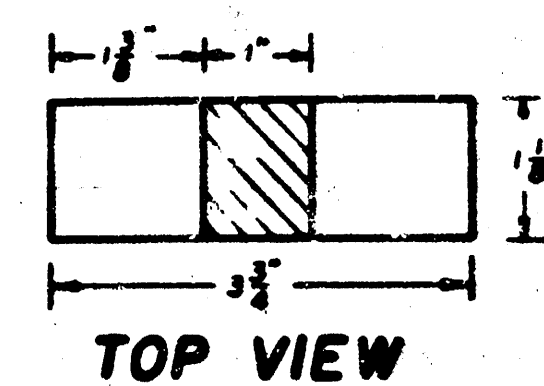


TOP VIEW

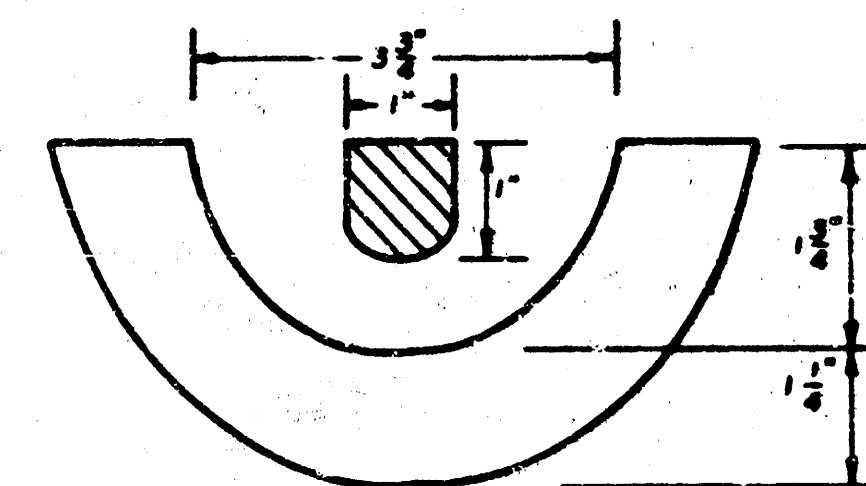


BOTTOM VIEW

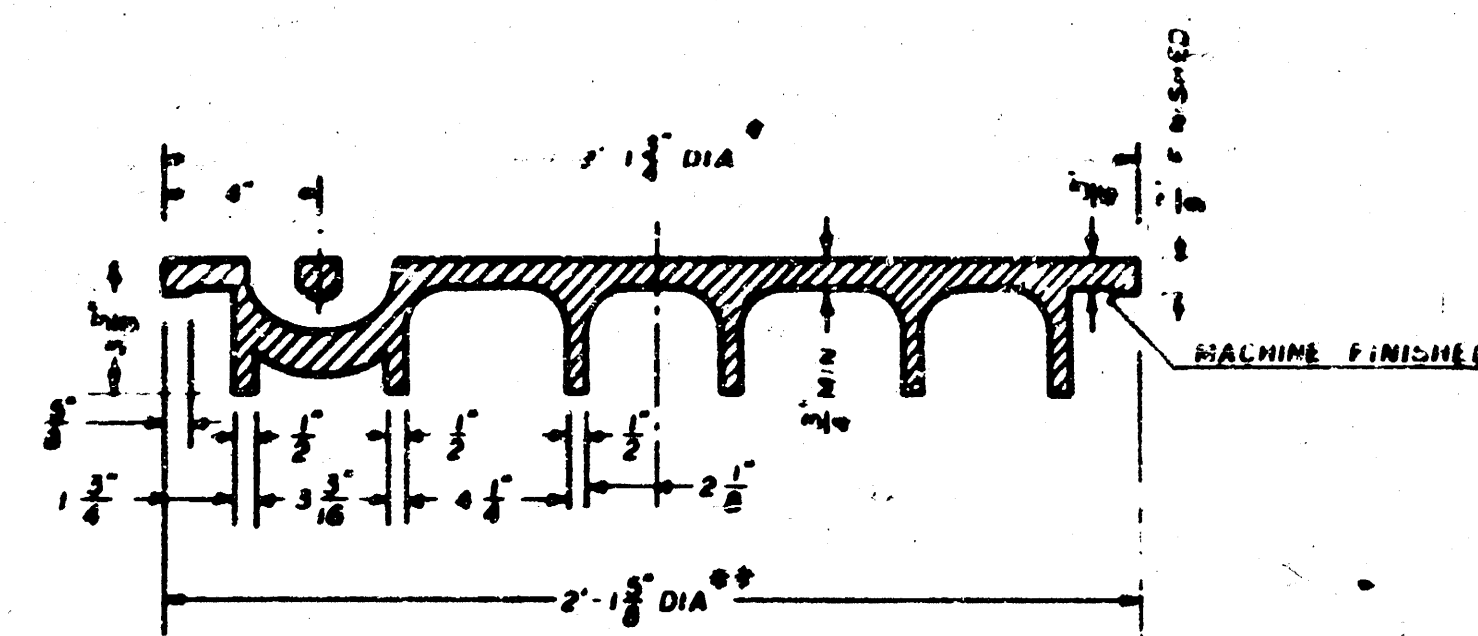
PICKHOLE DETAIL



TOP VIEW



SECTION VIEW

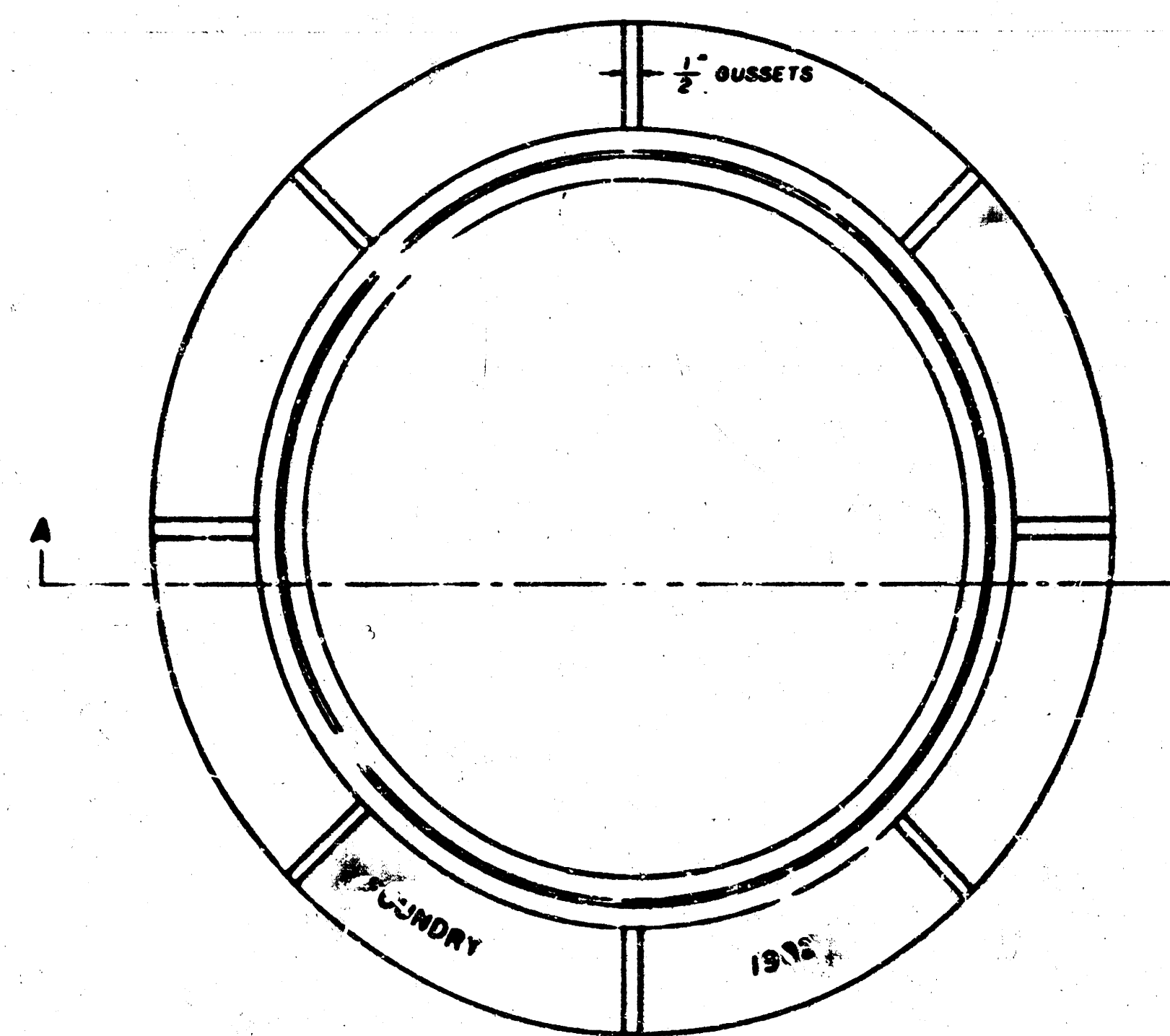


SECTION VIEW

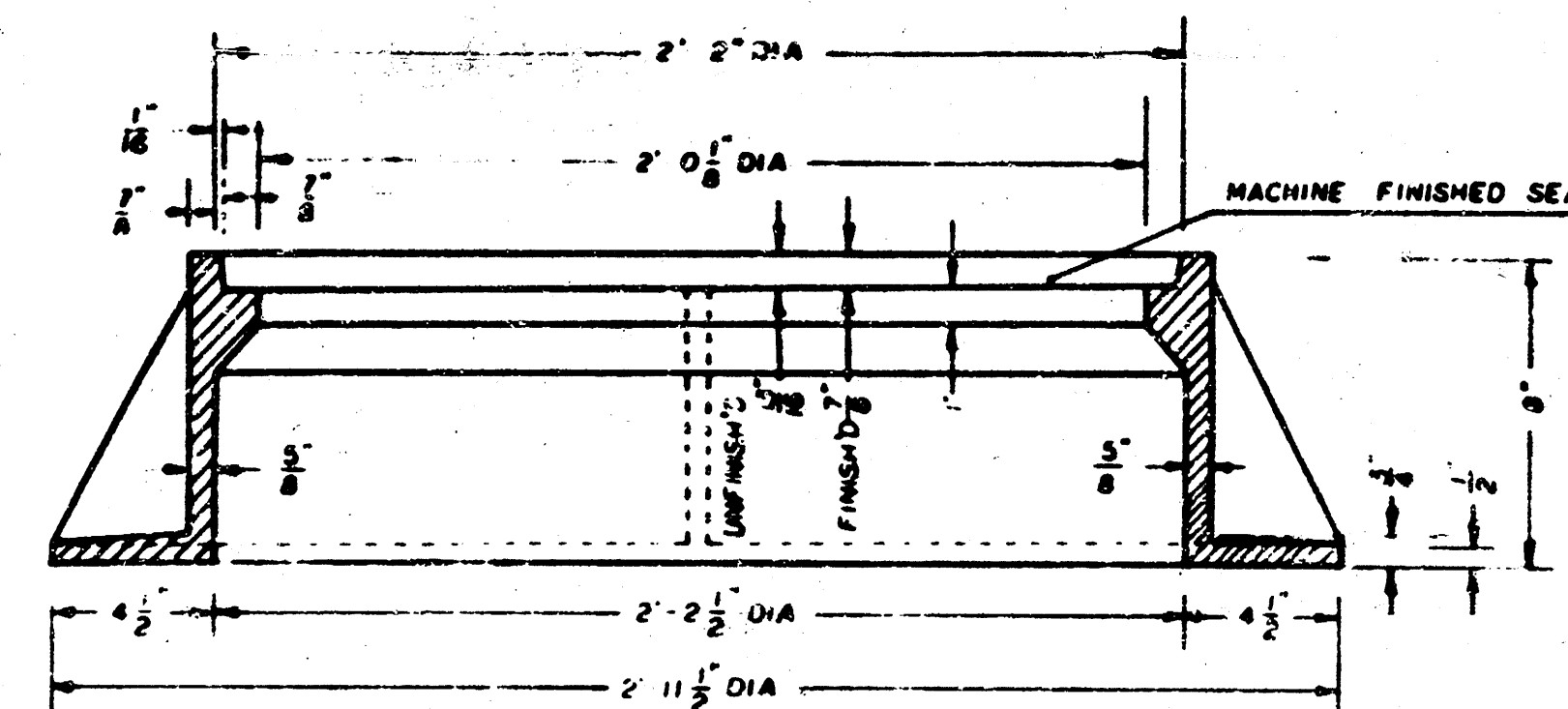
* OUTSIDE DIA. TOP OF COVER
** OUTSIDE DIA. BOTTOM OF COVER

MANHOLE FRAME

Weight: 240 Lbs.



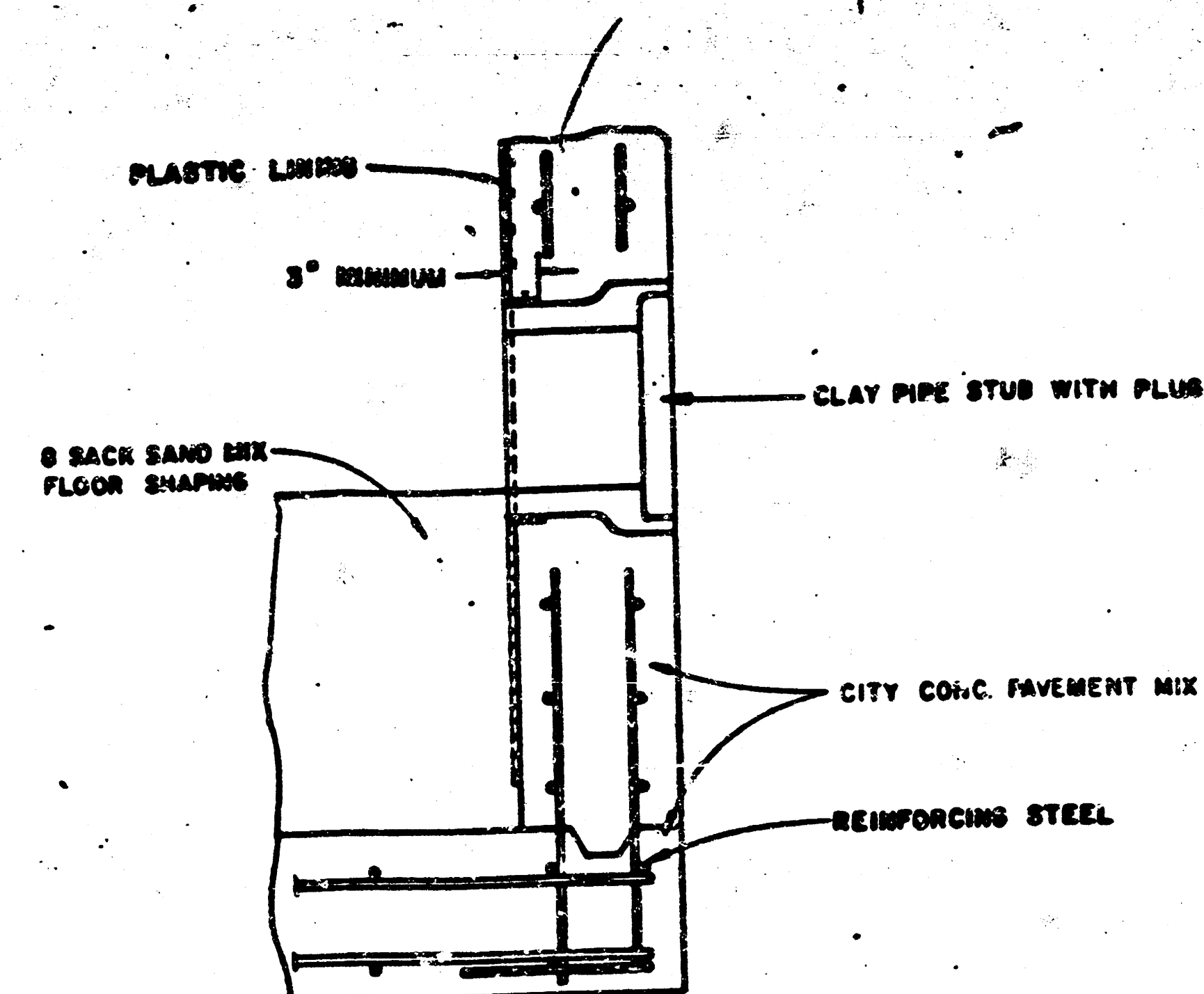
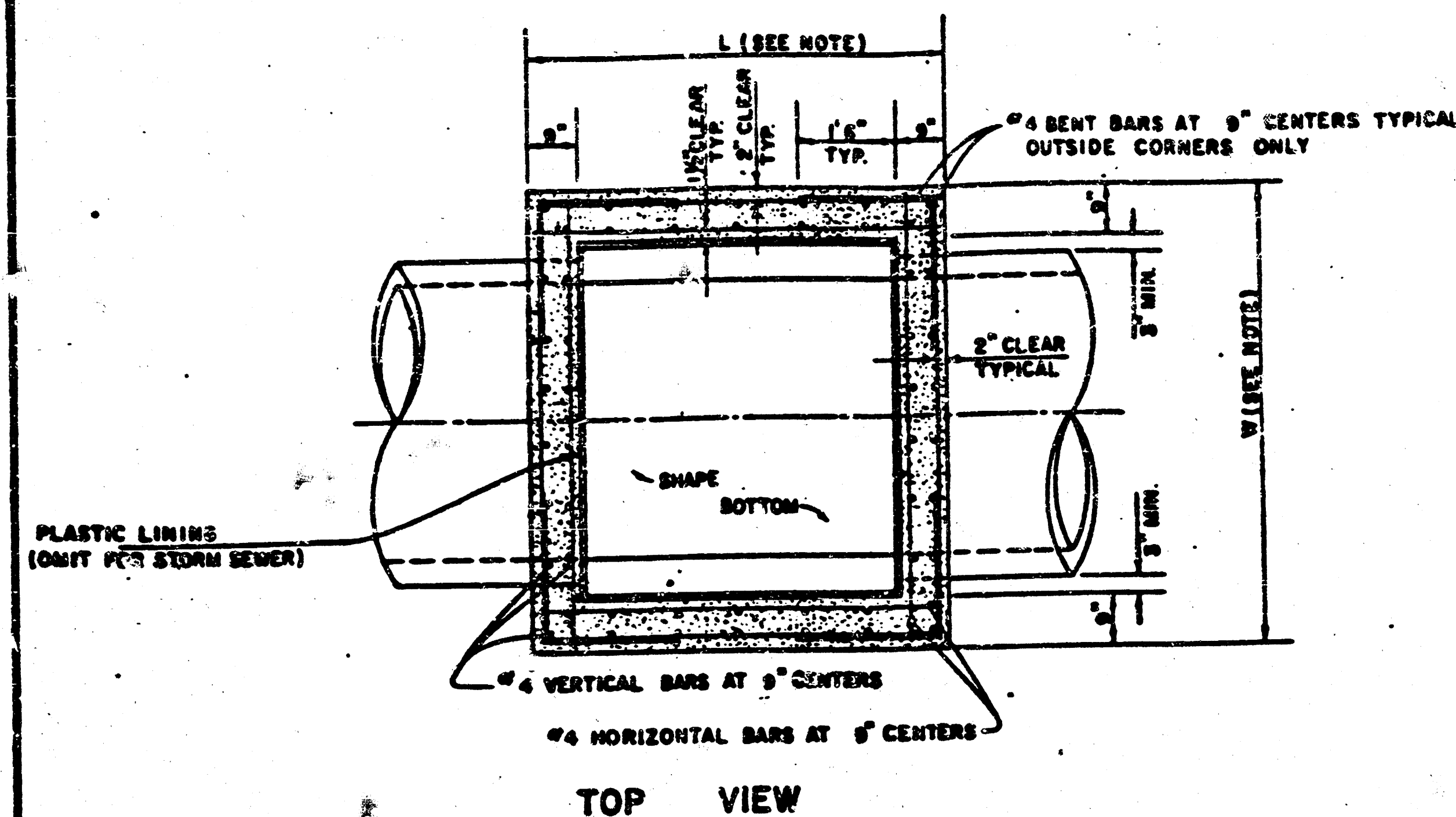
TOP VIEW



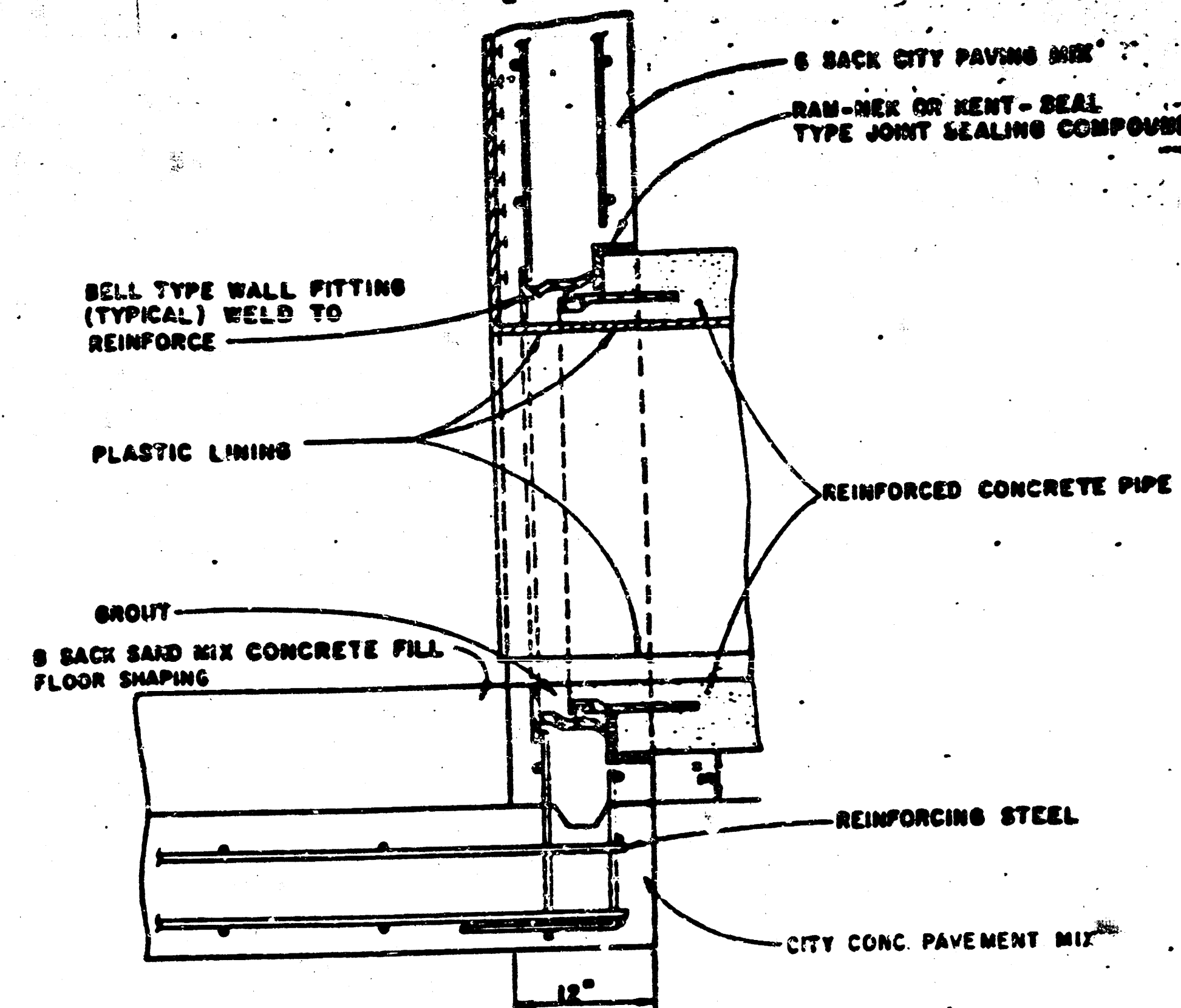
SECTION A-A

GENERAL NOTES

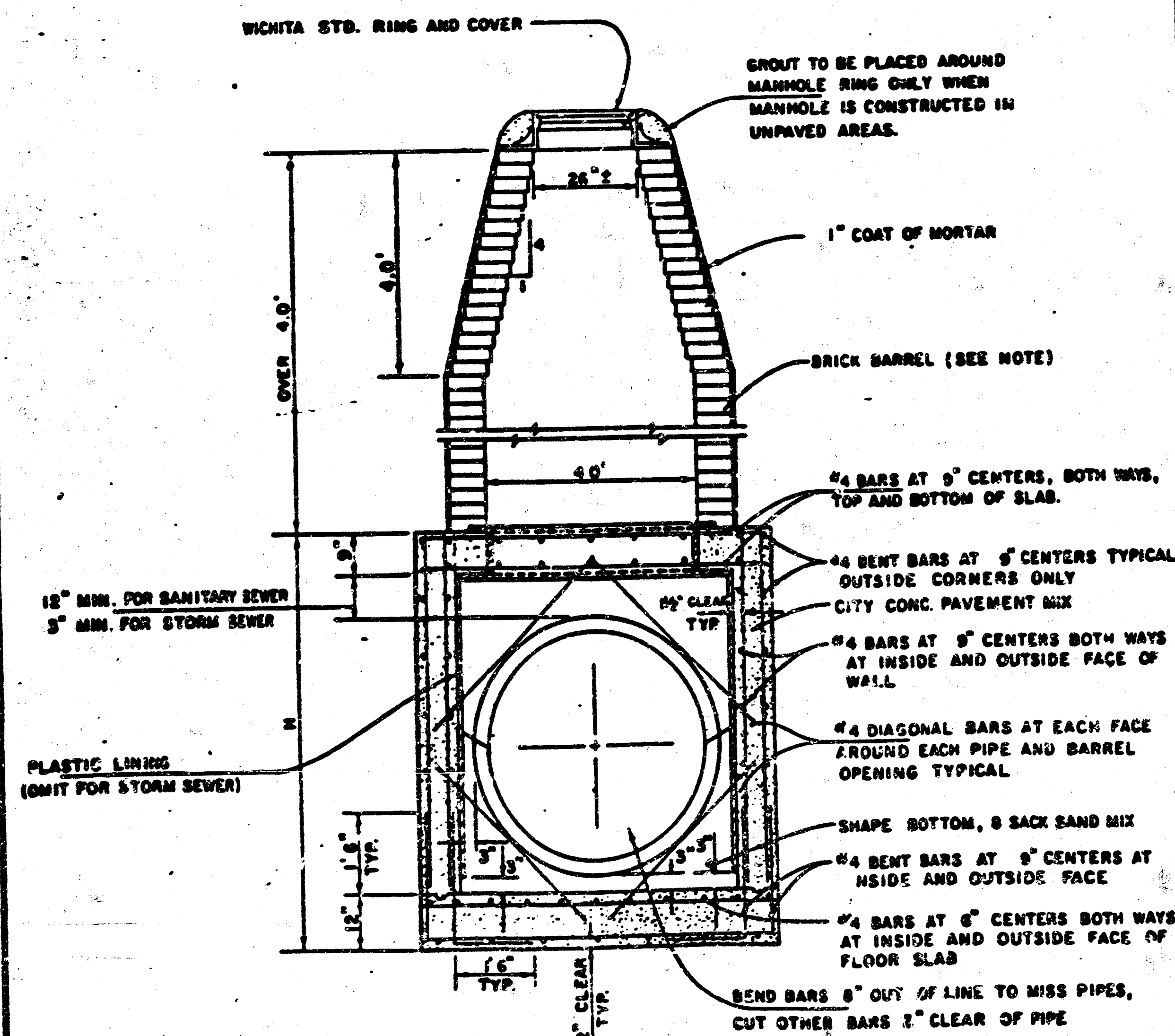
1. MANHOLE CASTINGS SHALL BE MANUFACTURED USING GOOD QUALITY GRAY IRON CONFORMING TO CLASS 30 OF A.S.T.M. DESIGNATION A-48. DIMENSIONS AND WEIGHTS SHOWN ON THE DETAILED DRAWINGS SHALL BE CONSIDERED AS MINIMUM REQUIREMENTS AND ANY DEVIATIONS FROM THE DIMENSIONS SHOWN MUST BE SPECIFICALLY APPROVED. THE 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.



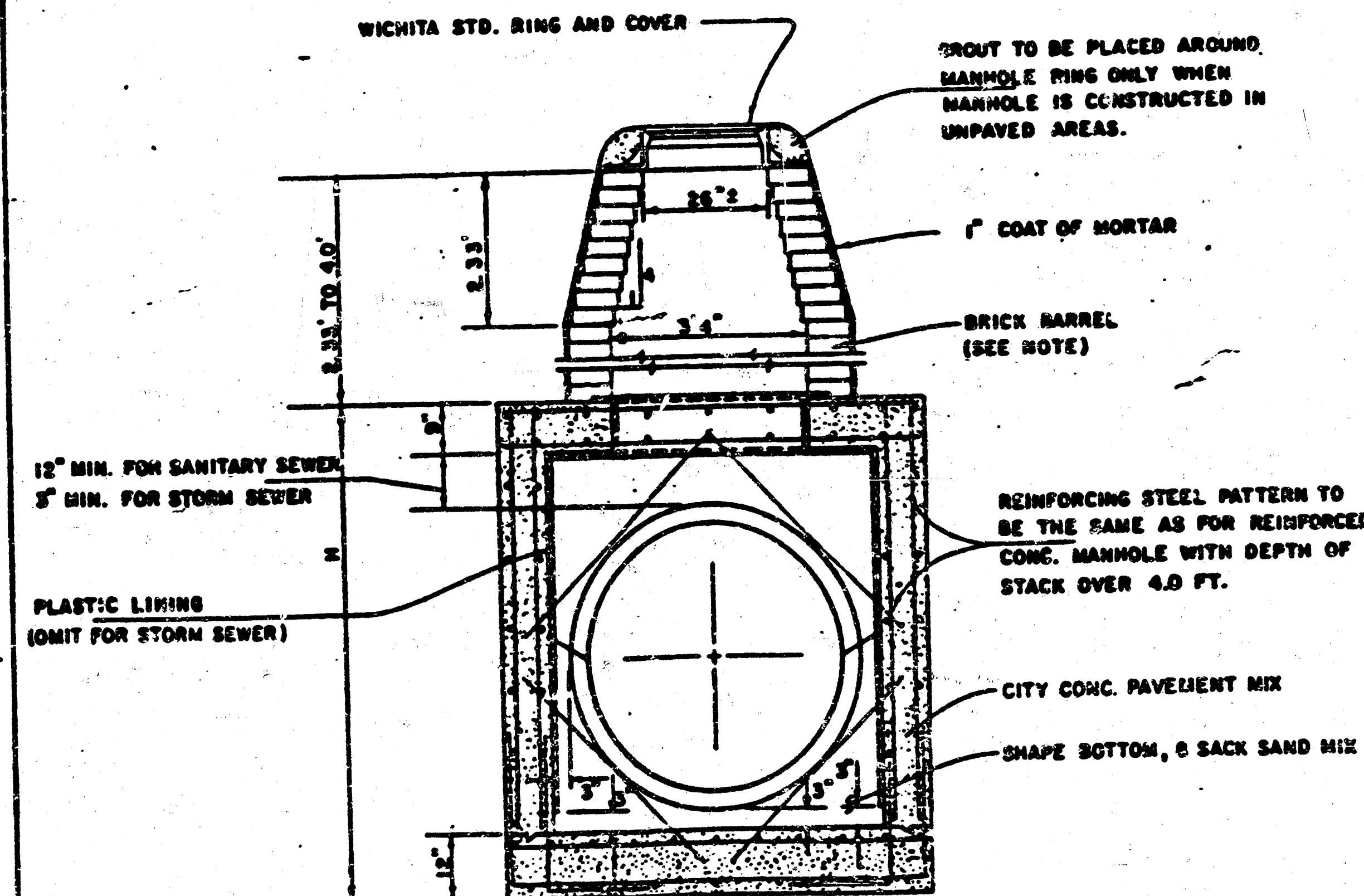
V.C.P. CONNECTION DETAIL
SANITARY SEWER ONLY



R.C.P. CONNECTION DETAIL
SANITARY SEWER ONLY

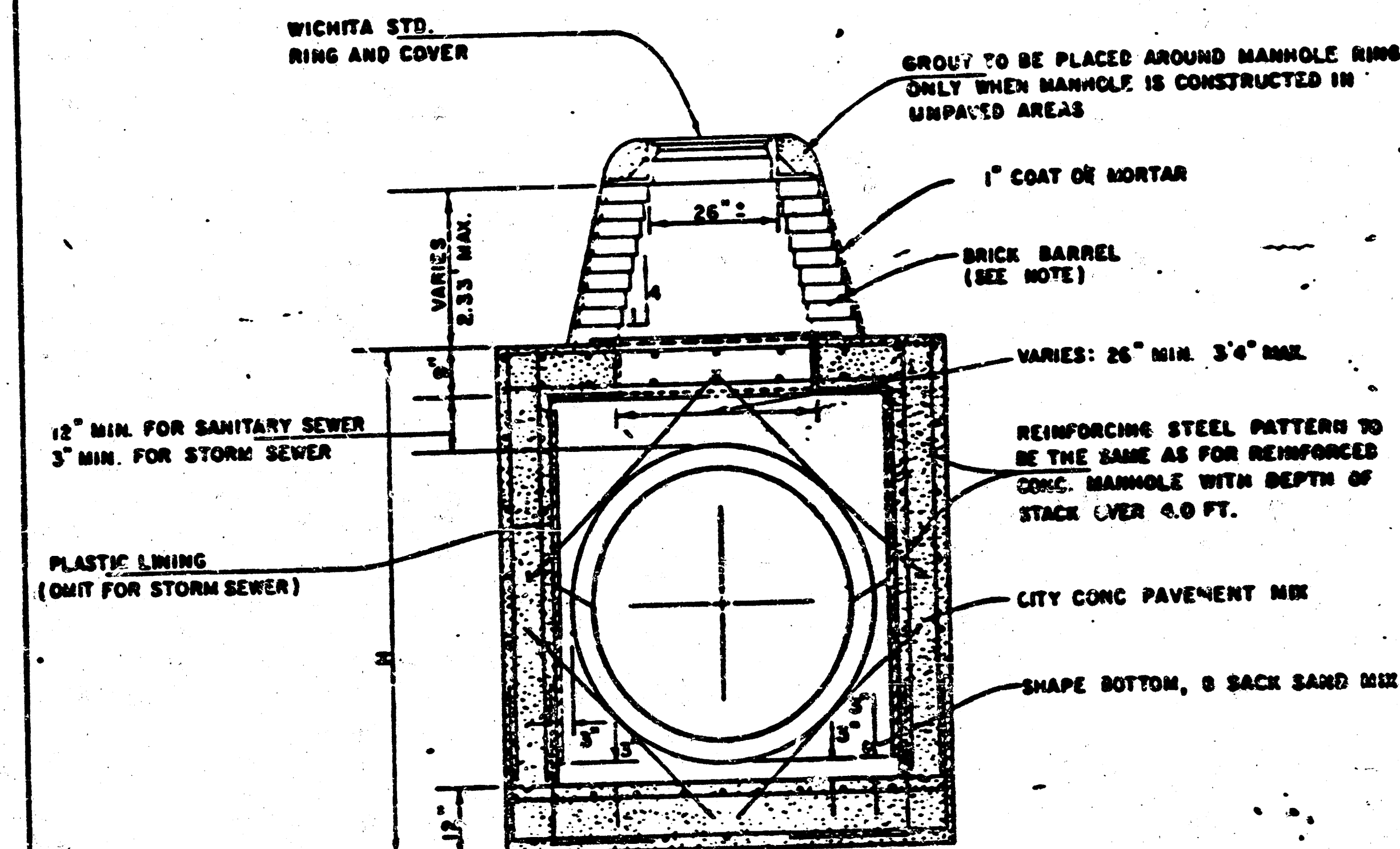


REINFORCED CONCRETE MANHOLE
DEPTH OF STACK: OVER 4.0'
SCALE 1" = 2'



REINFORCED CONCRETE MANHOLE
DEPTH OF STACK: 2.33' TO 4.0'
SCALE 1" = 2'

NOTE:
BRICK BARRELS LESS THEN 16' DEEP SHALL HAVE 8" WALLS EXCEPT WHEN LOCATED WITHIN PUBLIC STREET OR ALLEY PAVEMENT THEN THE WALL SHALL BE 12". BRICK BARRELS MORE THEN 16' DEEP SHALL HAVE 12" WALLS. THE "L" AND "W" DIMENSIONS SHALL BE A MINIMUM OF 5'6" FOR BRICK BARRELS WITH 8" WALLS AND 6'2" FOR BRICK BARRELS WITH 12" WALLS.



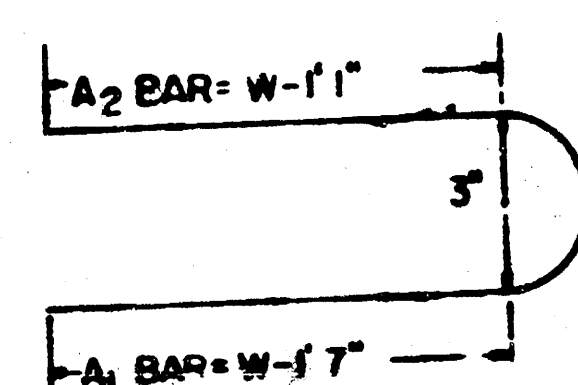
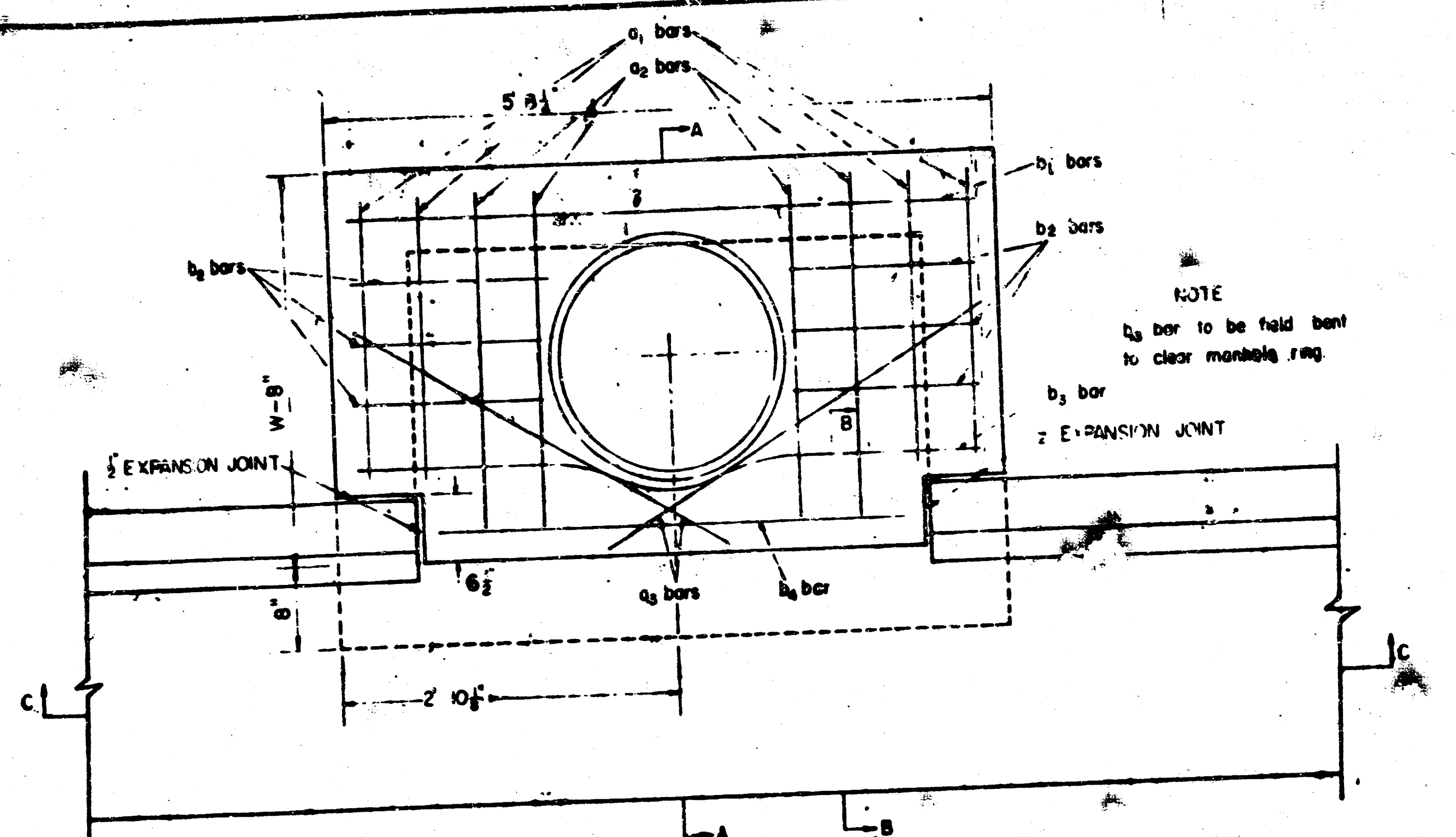
REINFORCED CONCRETE MANHOLE
DEPTH OF STACK: 0' TO 2.33'
SCALE 1" = 2'

STANDARD DETAILS
REINFORCED CONCRETE MANHOLES

CITY OF WICHITA

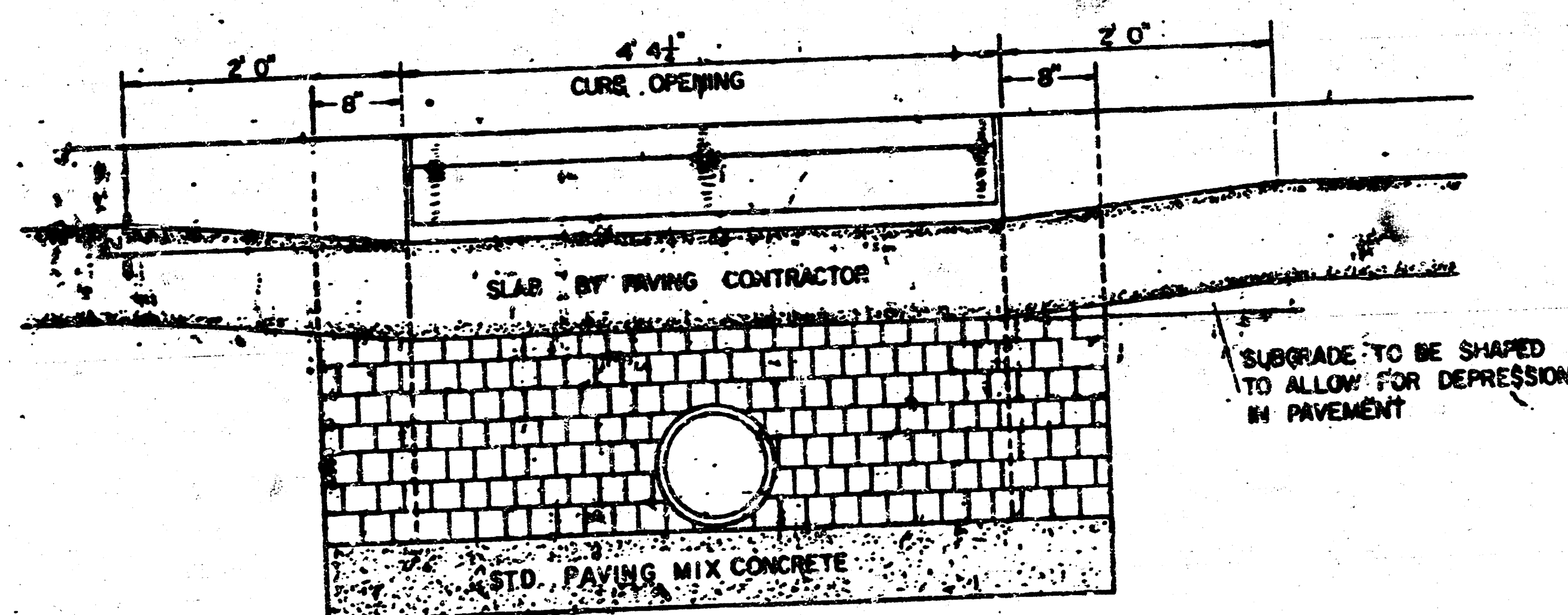
FEBRUARY 1984

8 OF 11



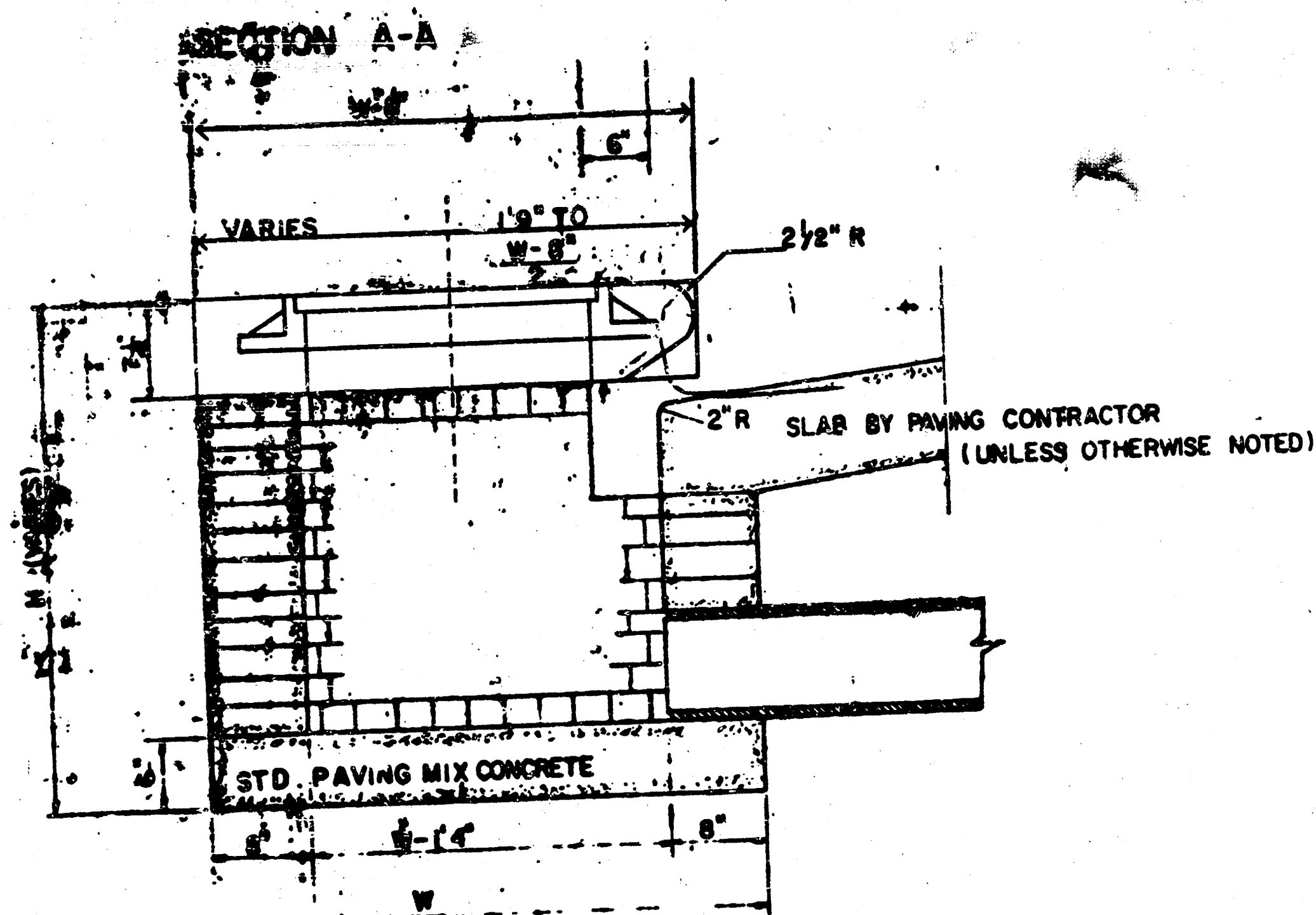
BAR	a ₁	a ₂	a ₃	b ₁	b ₂	b ₃	b ₄	WT. LBS.
SIZE	"4"	"4"	"4"	"4"	"4"	"4"	"6"	
NUMBER	4	4	2	3	5	6	1	
W-4'2"	5'5"	6'5"	3'7"	5'5"	-	1'7"	5'6"	4'0"
W-5'0"	7'1"	8'1"	4'7"	5'5"	-	1'7"	5'6"	4'0"
W-6'0"	9'1"	10'1"	5'7"	5'5"	-	1'7"	5'6"	4'0"

NOTE: A₃ BARS TO BE PLACED APPROXIMATELY 2" BELOW TOP OF INLET COVER



SECTION C-C
SCALE 1"=10"

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.

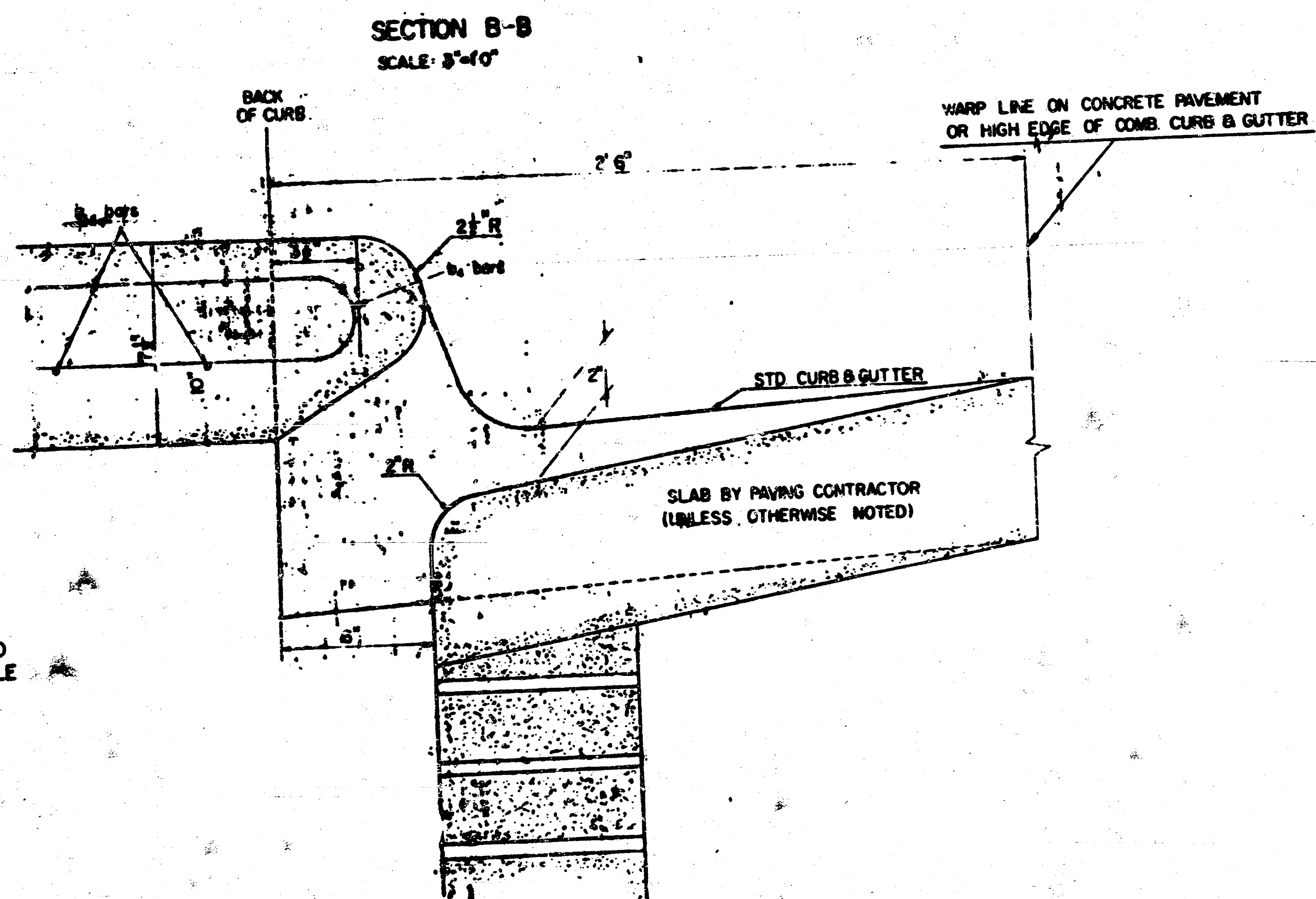


SECTION A-A
SCALE 1"=10"

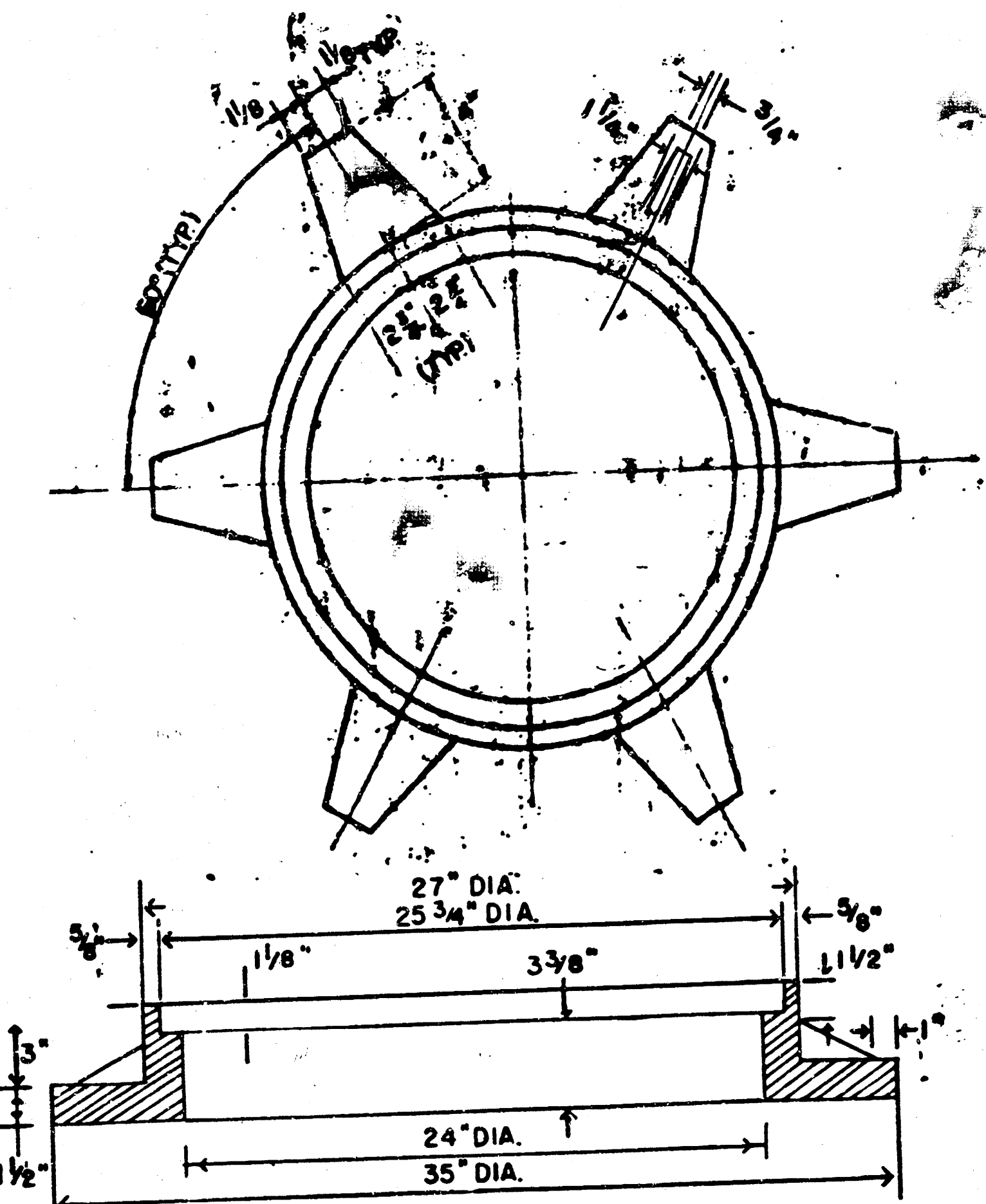
W	SIZE	PIPE SIZE	CU YD CONC.
4'2"	3'6" x 5'0" x 7'6"	24" Ø SMALLER	0.46 ^m
5'0"	4'4" x 5'8" x 7'6"	30" Ø 36"	0.57 ^m
6'0"	5'4" x 5'8" x 7'6"	42" Ø 48"	0.71 ^m

^mGROSS VOLUME

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 STD. PAVING MIX.



SECTION B-B
SCALE 3"=10"



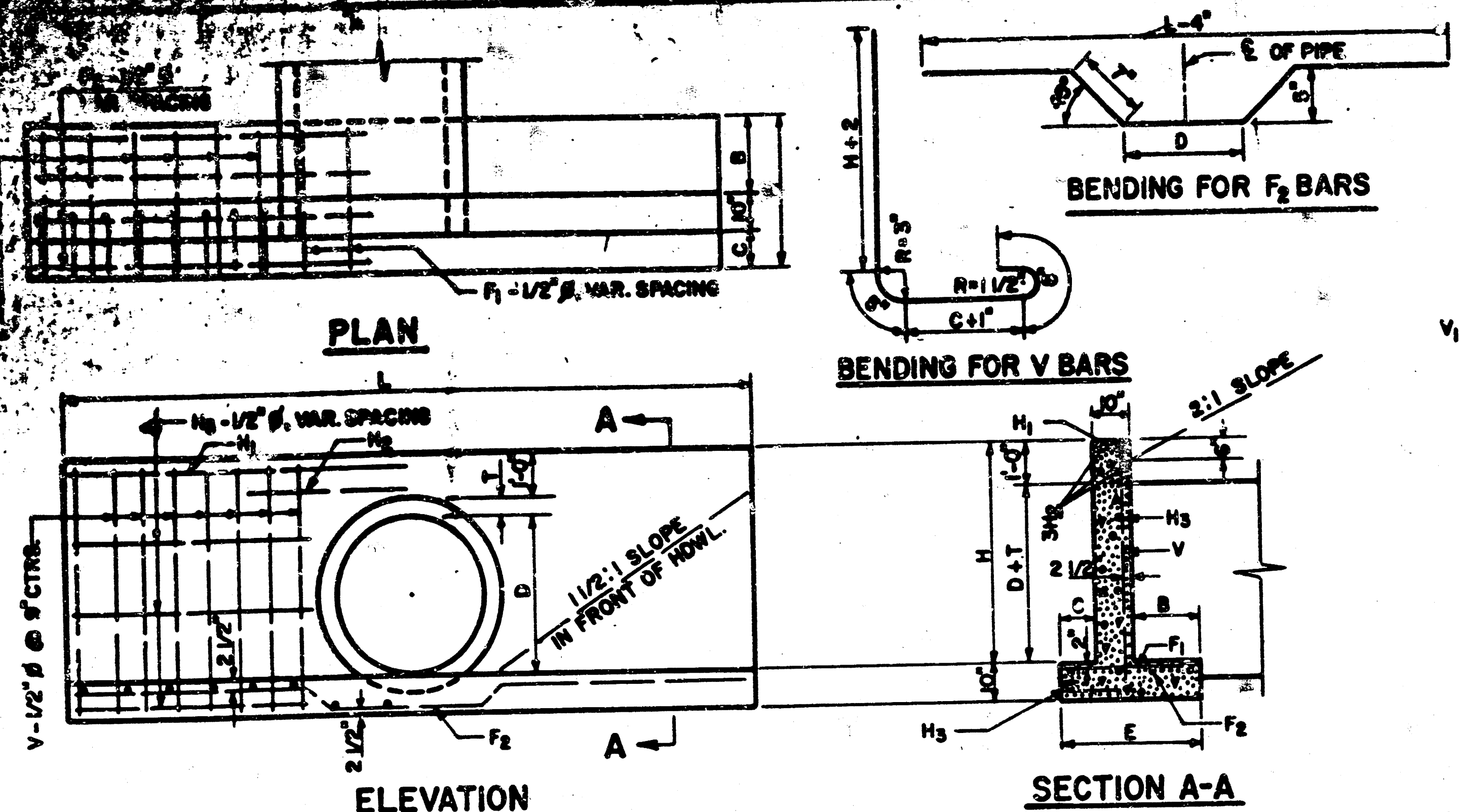
MANHOLE RING

SEE SEWER APPURTENANCES DETAIL SHEET FOR MANHOLE COVER

THIS TYPE INLET TO BE USED WHEN PAVEMENT IS ASPHALT PAVEMENT WITH CONCRETE BASE AND/OR WHEN PAVEMENTS HAVE FULL HEIGHT STANDARD CURBS

DETAIL
STANDARD CURB INLET-TYPE I
CITY OF WICHITA, KANSAS

FEBRUARY, 1975

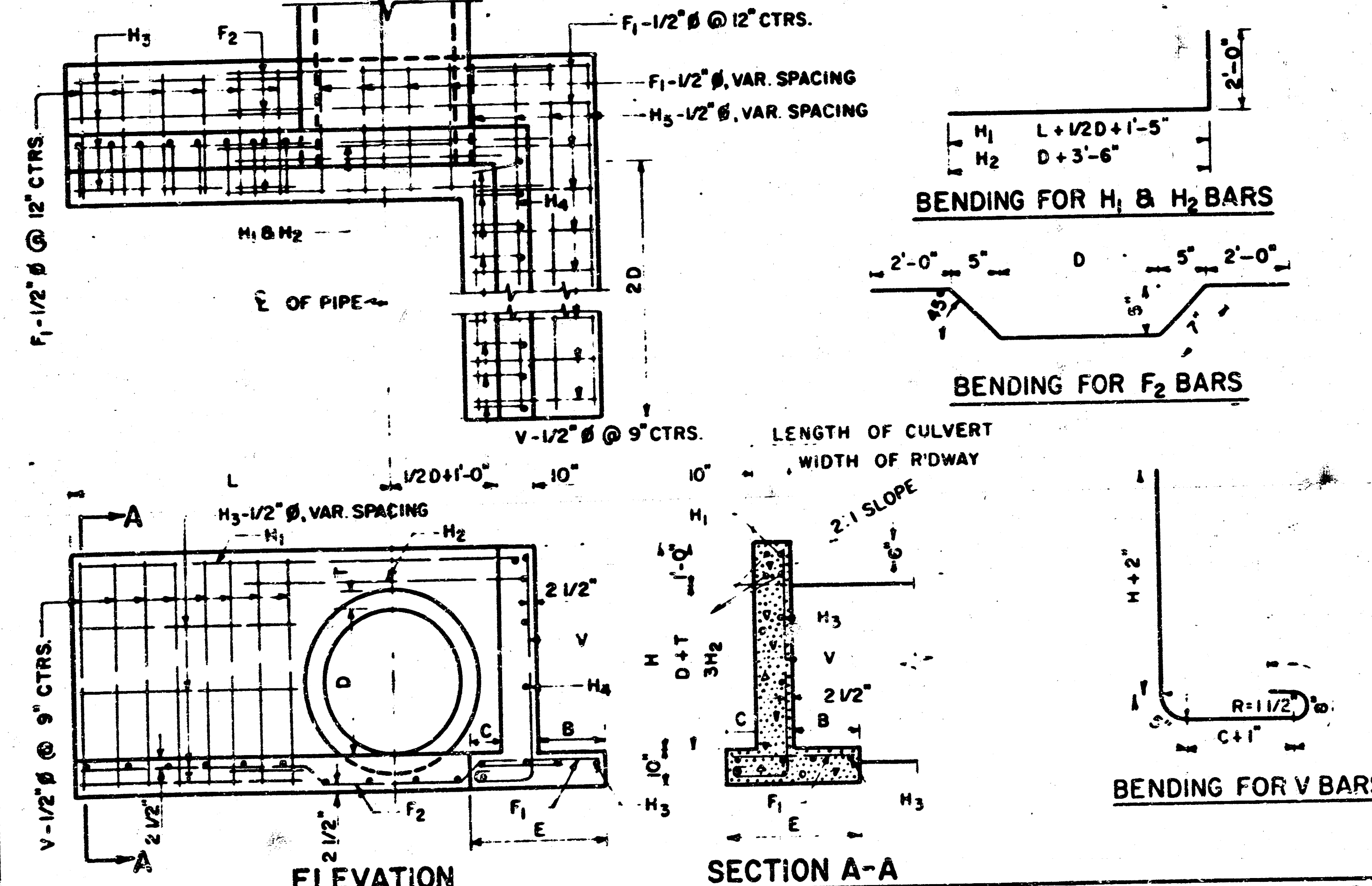


DIMENSIONS & QUANTITIES FOR HEADWALLS WITH 45° WINGS																							
DIMENSIONS							REINFORCING STEEL										QUANTITIES*						
D	AREA SQ.FT.	T	H	K	L	M	N	A-1/2" Ø NO.	1/2" Ø LGTH.	A-1/2" Ø NO.	1/2" Ø LGTH.	B-1/2" Ø NO.	1/2" Ø LGTH.	C-1/2" Ø NO.	1/2" Ø LGTH.	H-1/2" Ø NO.	1/2" Ø LGTH.	V-1/2" Ø NO.	1/2" Ø LGTH.	CLASS "A" CONC. C.Y.	REINF. STEEL LBS.		
15"	1.23	2 1/4"	2-5 1/4"	1-5"	3-7"	1-9"	1-3"	4	1'-0"	3	3'-5" AV.	7	3'-3"	3	1'-6"	4	2'-1"	4	3'-5" AV.	4	3'-10"	0.74	57
18"	1.77	2 1/2"	2-8 1/2"	1-7"	3-10"	2-1 1/2"	1-6"	4	1'-2"	2	4'-5" AV.	7	3'-6"	3	1'-6"	4	2'-6"	4	3'-5" AV.	4	6'-1"	0.91	61
24"	3.14	3"	3-3"	4-6"	4-2"	4-3"	1-6"	5	1'-6"	3	5'-5" AV.	7	4'-0"	3	1'-6"	6	3'-5"	6	4'-1" AV.	3	6'-8"	1.31	93
30"	4.91	3 1/2"	3-9 1/2"	5-6"	5-2"	5-2"	1-6"	6	2'-2"	3	6'-3" AV.	7	4'-6"	4	1'-6"	6	3'-11"	9	4'-5" AV.	4	7'-2"	1.77	123
36"	7.07	4"	4-4"	5-8"	6-4"	4'-3"	3'-0"	6	3'-0"	4	7'-3" AV.	7	5'-0"	4	1'-6"	6	4'-7"	10	4'-11" AV.	4	7'-5"	2.29	130
42"	9.62	4 1/2"	4-10 1/2"	6-2"	5'-0"	4-11 1/2"	3'-5"	6	3'-2"	4	8'-5" AV.	7	5'-6"	4	1'-6"	6	5'-4"	12	5'-4" AV.	4	8'-5"	2.89	191

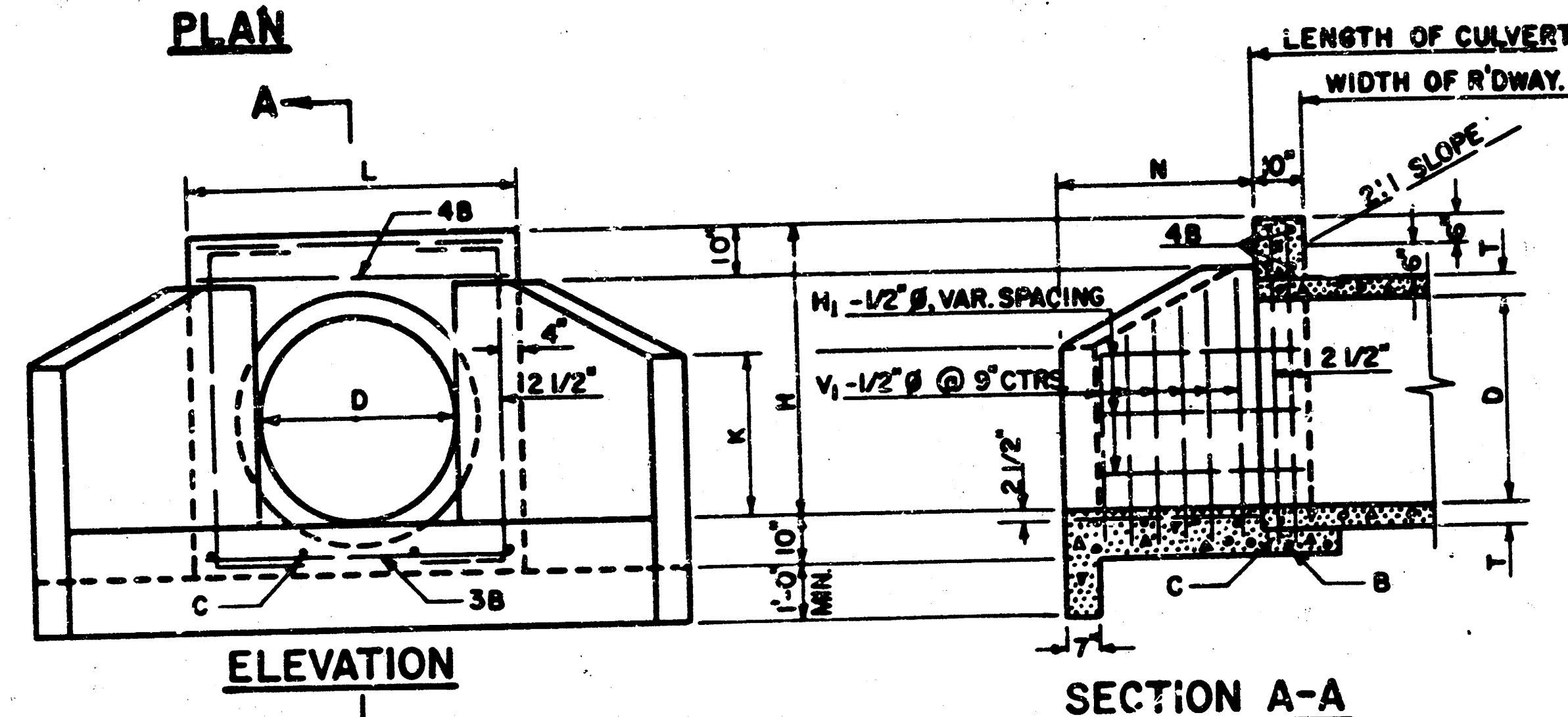
* FOR ONE HEADWALL

DIMENSIONS & QUANTITIES FOR STRAIGHT HEADWALLS																					
DIMENSIONS								REINFORCING STEEL											QUANTITIES *		
D	AREA SQ.FT.	T	H	L	E	B	C	F ₁ -1/2" Ø NO. LGTH.	F ₂ -1/2" Ø NO. LGTH.	H ₁ -1/2" Ø NO. LGTH.	H ₂ -1/2" Ø NO. LGTH.	H ₃ -1/2" Ø NO. LGTH.	V-1/2" Ø NO. LGTH.	CLASS "A" CONC. C.Y.	REINF. STEEL LBS.						
15"	1.23	2 1/4"	2-5 1/4"	6'-0"	2'-2"	10'	6"	6	1-10"	3	6'-0"	1	5'-8"	3	5'-3"	4	2'-0"	6	4'-3"	0.78	56
18"	1.77	2 1/2"	2-8 1/2"	7'-0"	2'-3"	11'	6"	8	1-11"	3	7'-0"	1	6'-8"	3	5'-6"	4	2'-4"	8	4'-6"	0.98	70
24"	3.14	3"	3-3"	9'-0"	2'-7"	13'	6"	11	2-3"	3	9'-0"	1	8'-8"	3	6'-0"	4	3'-1"	10	5'-1"	1.46	95
30"	4.91	3 1/2"	3-9 1/2"	11'-0"	2'-10"	15'	6"	14	2-6"	3	11'-0"	1	10'-8"	3	6'-6"	4	3'-9"	12	5'-9"	2.00	122
36"	7.07	4"	4-4"	14'-0"	3'-1"	17'	6"	16	2-5"	4	14'-0"	1	13'-8"	3	7'-0"	6	5'-0"	14	6'-4"	2.85	170
42"	9.62	4 1/2"	4-10 1/2"	16'-0"	3'-4"	19'	6"	16	3'-0"	4	16'-0"	1	15'-8"	3	7'-6"	6	5'-8"	16	7'-0"	3.58	198

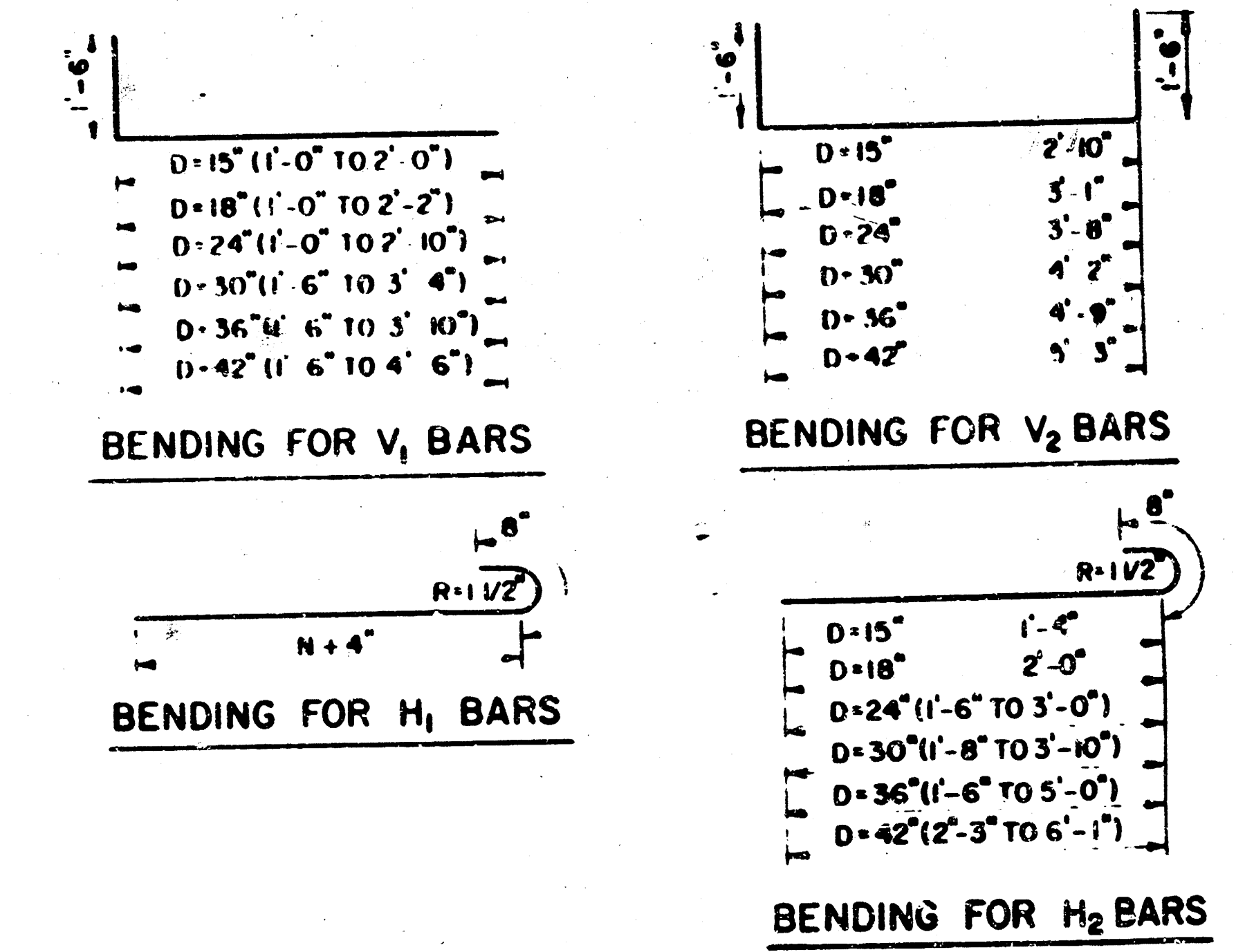
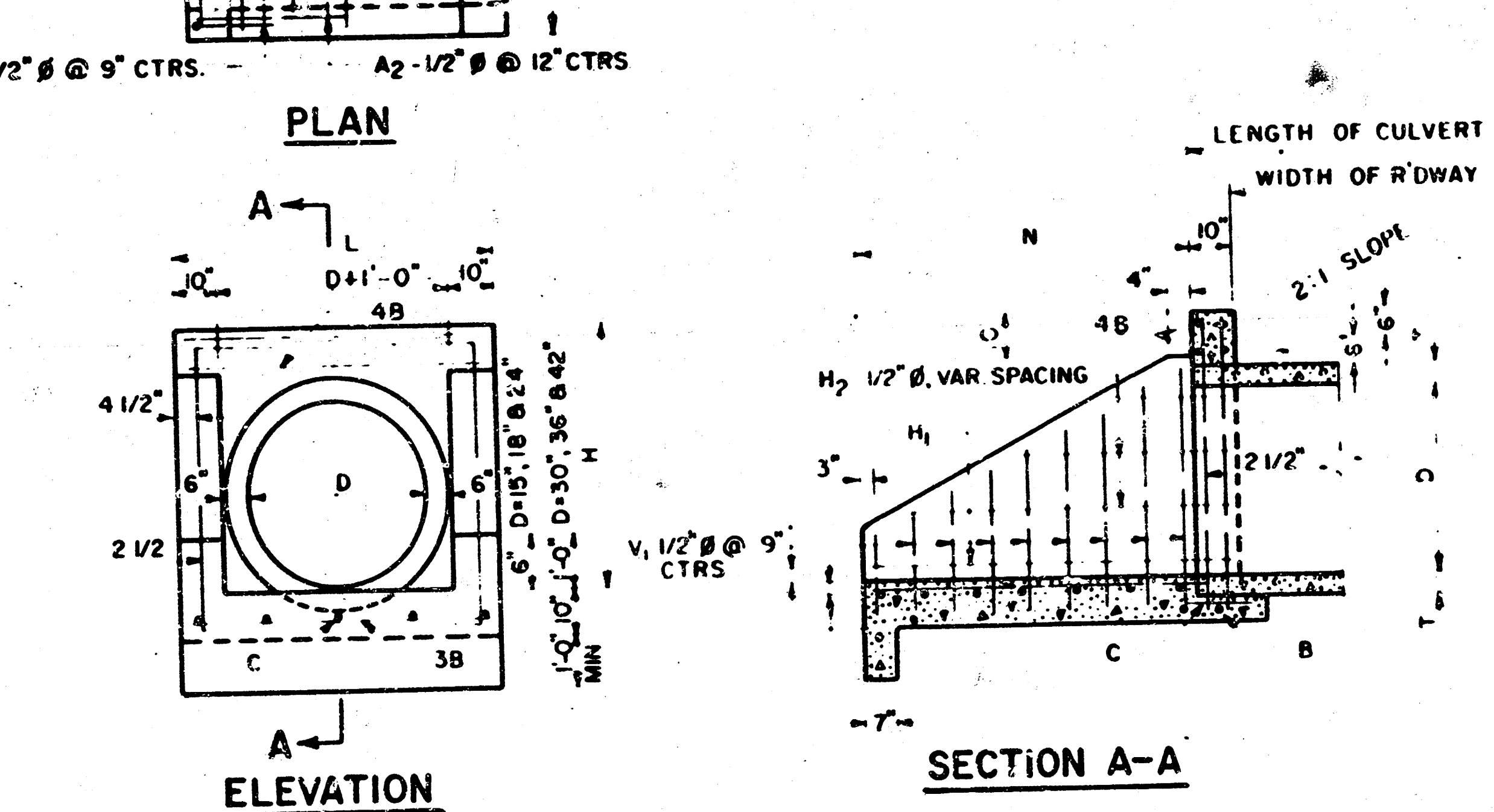
* FOR ONE HEADWALL



DIMENSIONS & QUANTITIES FOR HEADWALLS WITH 90° WINGS																									
DIMENSIONS								REINFORCING STEEL												QUANTITIES *					
D	AREA SQ. FT.	T	H	L	E	B	C	F ₁ -1/2" Ø NO.	LGTH	F ₂ -1/2" Ø NO.	LGTH	H ₁ -1/2" Ø NO.	LGTH	H ₂ -1/2" Ø NO.	LGTH	H ₃ -1/2" Ø NO.	LGTH	H ₄ -1/2" Ø NO.	LGTH	H ₅ -1/2" Ø NO.	V-1/2" Ø NO.	LGTH	CLASS "A" REINF. CONC. C.Y.	REINF. STEEL LBS.	
15"	1.23	2 1/4"	2-5 1/4"	3'-0"	2'-2"	10'	6"	10	1'-10"	3	6'-5"	1	7'-0"	3	6'-9"	5	2'-0"	2	3'-0"	4	3'-10"	7	4'-3"	1.09	84
18"	1.77	2 1/2"	2-8 1/2"	3'-6"	2'-3"	11'	6"	10	1'-11"	3	6'-8"	1	7'-8"	3	7'-0"	5	2'-0"	2	3'-6"	4	4'-5"	9	4'-6"	1.32	97
24"	3.14	3"	3'-3"	4'-4"	2'-7"	13'	6"	14	2'-3"	3	7'-2"	1	8'-11"	3	7'-6"	6	3'-1"	3	4'-6"	4	5'-9"	11	5'-1"	1.94	131
30"	4.91	3 1/2"	3-9 1/2"	5'-6"	2'-10"	15'	6"	16	2'-6"	3	7'-8"	1	10'-2"	3	8'-0"	6	3'-9"	3	5'-6"	4	6'-0"	14	5'-9"	2.59	163
36"	7.07	4"	4'-4"	7'-0"	3'-1"	17'	6"	19	2'-5"	4	8'-2"	1	11'-11"	3	8'-6"	7	5'-0"	4	6'-6"	4	8'-1"	17	6'-4"	3.47	216
42"	9.62	4 1/2"	4-10 1/2"	8'-0"	3'-4"	19'	6"	21	3'-0"	4	8'-8"	1	13'-2"	3	9'-0"	7	5'-8"	4	7'-6"	4	9'-2"	19	7'-0"	4.32	252
																								* FOR ONE HEADWALL	



* USE THIS TYPE HEADWALL																								
DIMENSIONS & QUANTITIES FOR HEADWALLS WITH U-TYPE WINGS																								
DIMENSIONS						REINFORCING STEEL														QUANTITIES *				
D	AREA SQ. FT.	T	H	L	N	A ₁ -1/2" Ø NO. LGTH.	A ₂ -1/2" Ø NO. LGTH.	B-1/2" Ø NO. LGTH.	C-1/2" Ø NO. LGTH.	H ₁ -1/2" Ø NO. LGTH.	H ₂ -1/2" Ø NO. LGTH.	V ₁ -1/2" Ø NO. LGTH.	V ₂ -1/2" Ø NO. LGTH.	CLASS "A" CONC. C.Y.	REINF. STEEL LBS.									
15"	1.23	2 1/4"	2-5 1/4"	3'-11"	2'-6"	3	2'-2"	3	3'-7"	7	3'-7"	3	1'-6"	2	3'-6"	2	2'-0"	8	3'-0" AV.	4	5'-10"	0.95	71	
18"	1.77	2 1/2"	2-8 1/2"	4'-2"	3'-1"	3	2'-9"	4	3'-10"	7	3'-10"	3	1'-6"	2	4'-1"	2	2'-0"	8	3'-0" AV.	4	6'-1"	1.15	79	
24"	3.14	3"	3-3"	4'-8"	4'-2"	4	3'-10"	5	4'-4"	7	4'-4"	4	1'-6"	2	5'-2"	4	2'-11" AV.	12	3'-5" AV.	4	6'-8"	1.60	109	
30"	4.91	3 1/2"	3-9 1/2"	5'-2"	4'-3"	4	3'-11"	5	4'-10"	7	4'-10"	4	1'-6"	2	5'-3"	4	3'-5" AV.	12	3'-11" AV.	4	7'-2"	1.91	120	
36"	7.07	4"	4-4"	5'-8"	5'-4"	5	5'-0"	6	5'-4"	7	5'-4"	5	1'-6"	2	6'-4"	6	3'-11" AV.	14	4'-2" AV.	4	7'-9"	2.48	192	
42"	9.62	4 1/2"	4-10 1/2"	6'-2"	6'-5"	5	6'-1"	7	5'-10"	7	5'-10"	5	1'-6"	2	7'-5"	6	4'-10" AV.	18	4'-6" AV.	4	8'-3"	3.12	186	
															* FOR ONE HEADWALL									



GENERAL NOTES

ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH CITY OF TULSA STANDARD SPECIFICATIONS.

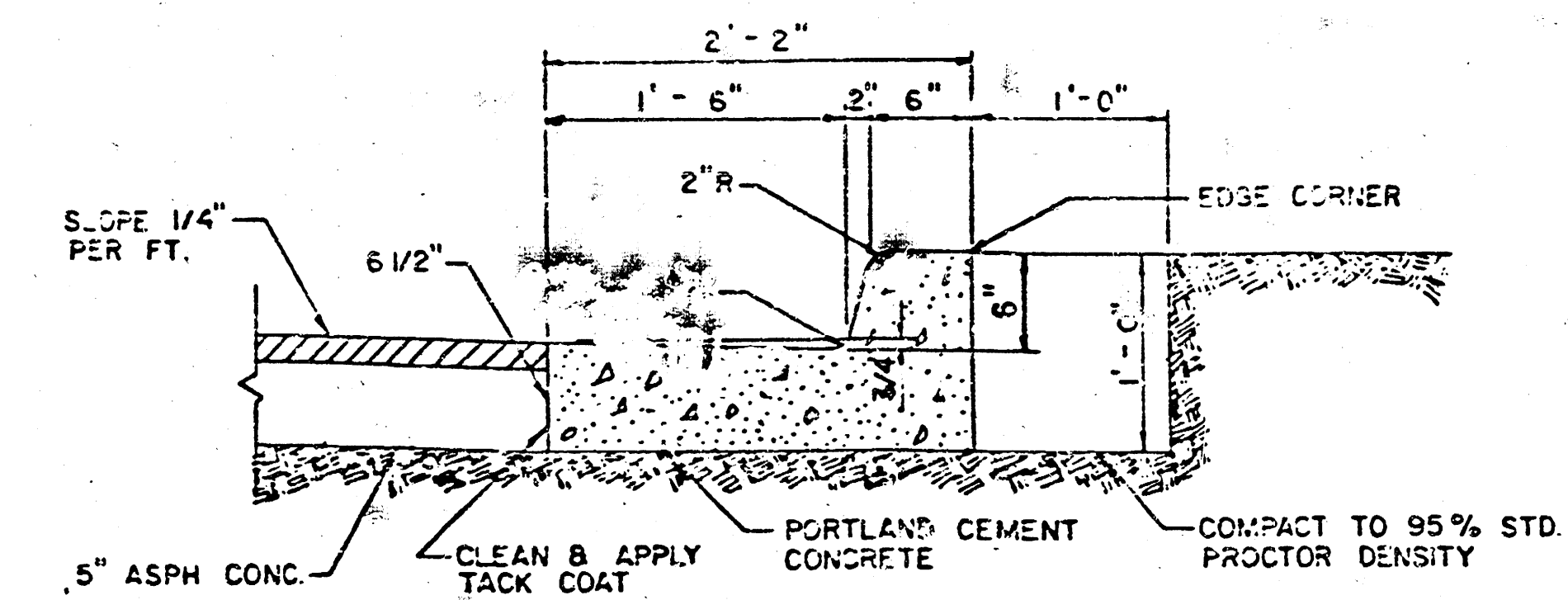
ALL EXPOSED CONCRETE SURFACES SHALL HAVE A CARBORUNDUM FINISH.

ALL EXPOSED CONCRETE EDGES SHALL HAVE A 3/4" CHAMFER.

REINFORCED CONCRETE PIPE SHALL CONFORM TO THE REQUIREMENTS OF AASHTO M-170 (ASTM C-76) CLASS III UNLESS OTHERWISE DESIGNATED.

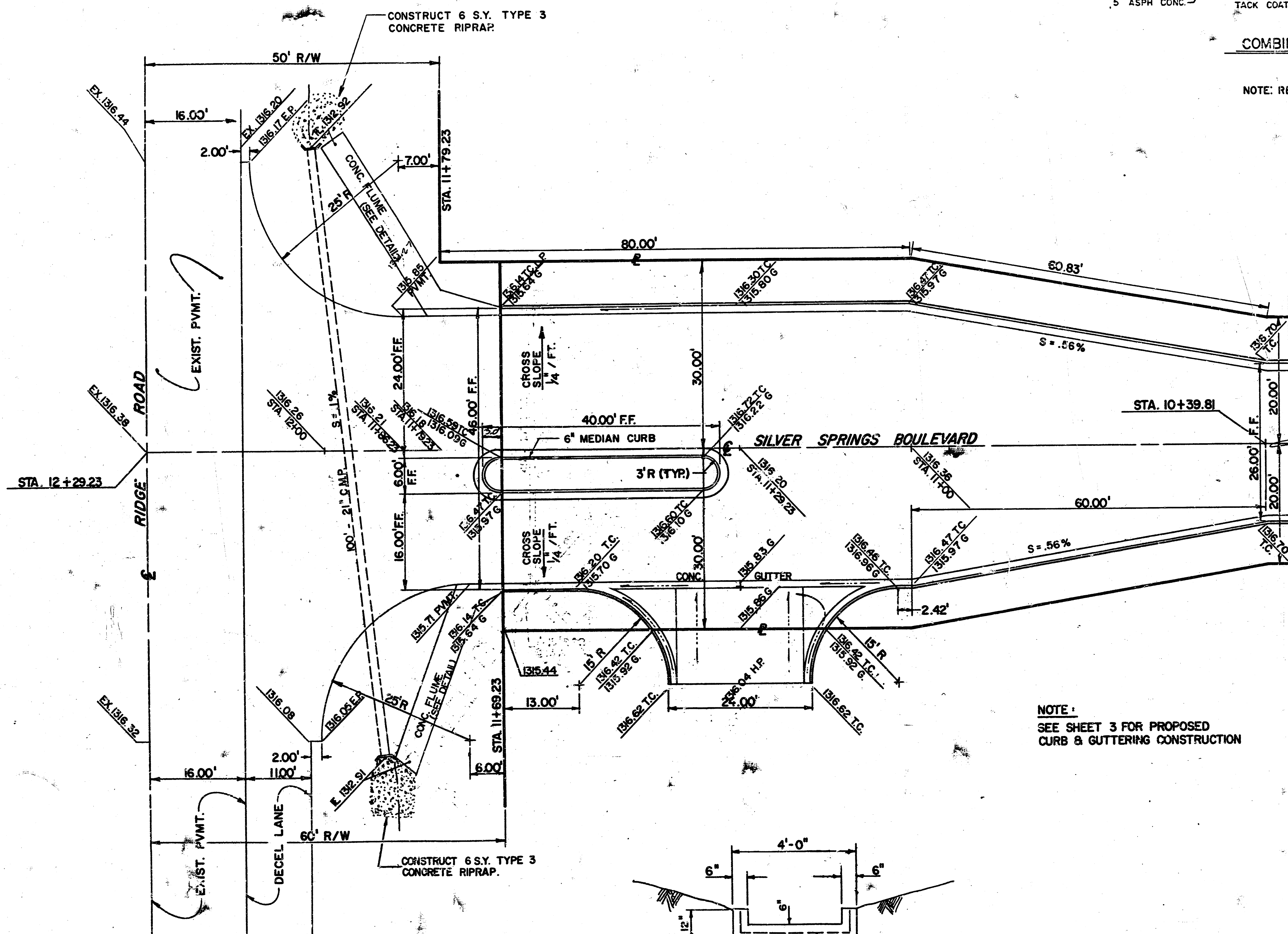
MINIMUM DEPTH OF FILL OVER CULVERTS SHALL BE 1'-0".

WALL THICKNESS (DIMENSION "T") OF PIPES SHOWN, ARE TAKEN FROM "WALL B" COLUMN OF ASTM & AASHTO TABLES.

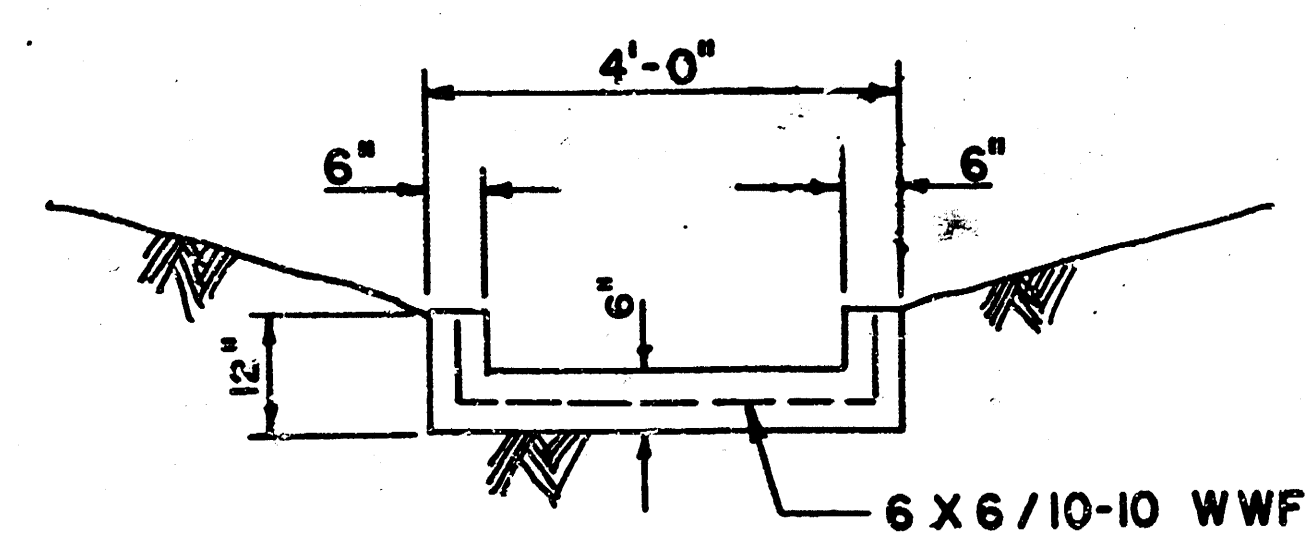


COMBINED CURB AND GUTTER
SCALE: 1" = 1'

NOTE: REVERSE GUTTER SLOPE FOR MEDIAN SECTION.



NOTE:
SEE SHEET 3 FOR PROPOSED
CURB & GUTTERING CONSTRUCTION



CONCRETE FLUME DETAIL
SCALE: 1" = 2'-0"

CITY OF WICHITA, KANSAS
R. C. YOUNG & ASSOCIATES
908 S. PEORIA - TULSA, OKLA. 74104 - 918/583-4161

REVISION	BY	DATE	PLAN SCALE	DRAWN	DESIGNED	APPROVED
			1" = 10'	C. DAVIS	E. A. P.	
			PROFILE SCALE		SILVER SPRINGS	
			HORIZONTAL		DECEL LANE, ENTRY	
					DETAIL SHEET	
					RECOMMENDED	
					100' HORIZ. SCALE	
					DATE	
					ATLAS PAGE NO.	