

CITY OF WICHITA, KANSAS

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

STORM WATER SEWER NO. 304

IN
FAIRFIELD ESTATES AND FAIRFIELD ESTATES 2ND ADDITIONS

CITY OF WICHITA PROJECT NO. 468-76-245-81537-000-000-001

INDEX NO. 600874

INDEX OF SHEETS

1. TITLE SHEET
2. PLAN
3. PROFILE
4. STD. TYPE 1A CURB INLET DETAILS (11'-4")
5. STD. TYPE 1A CURB INLET DETAILS (8'-4")
6. STD. MANHOLE RING AND COVER DETAILS

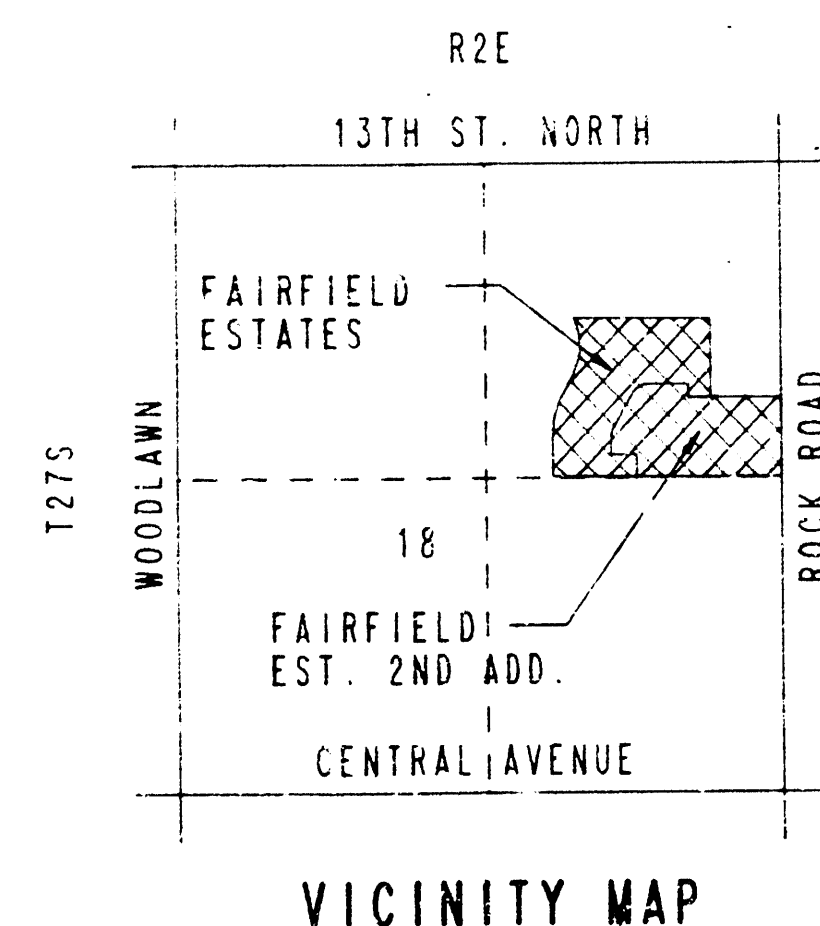
PROJECT SURVEY CONTROL

CITY OF WICHITA DATUM

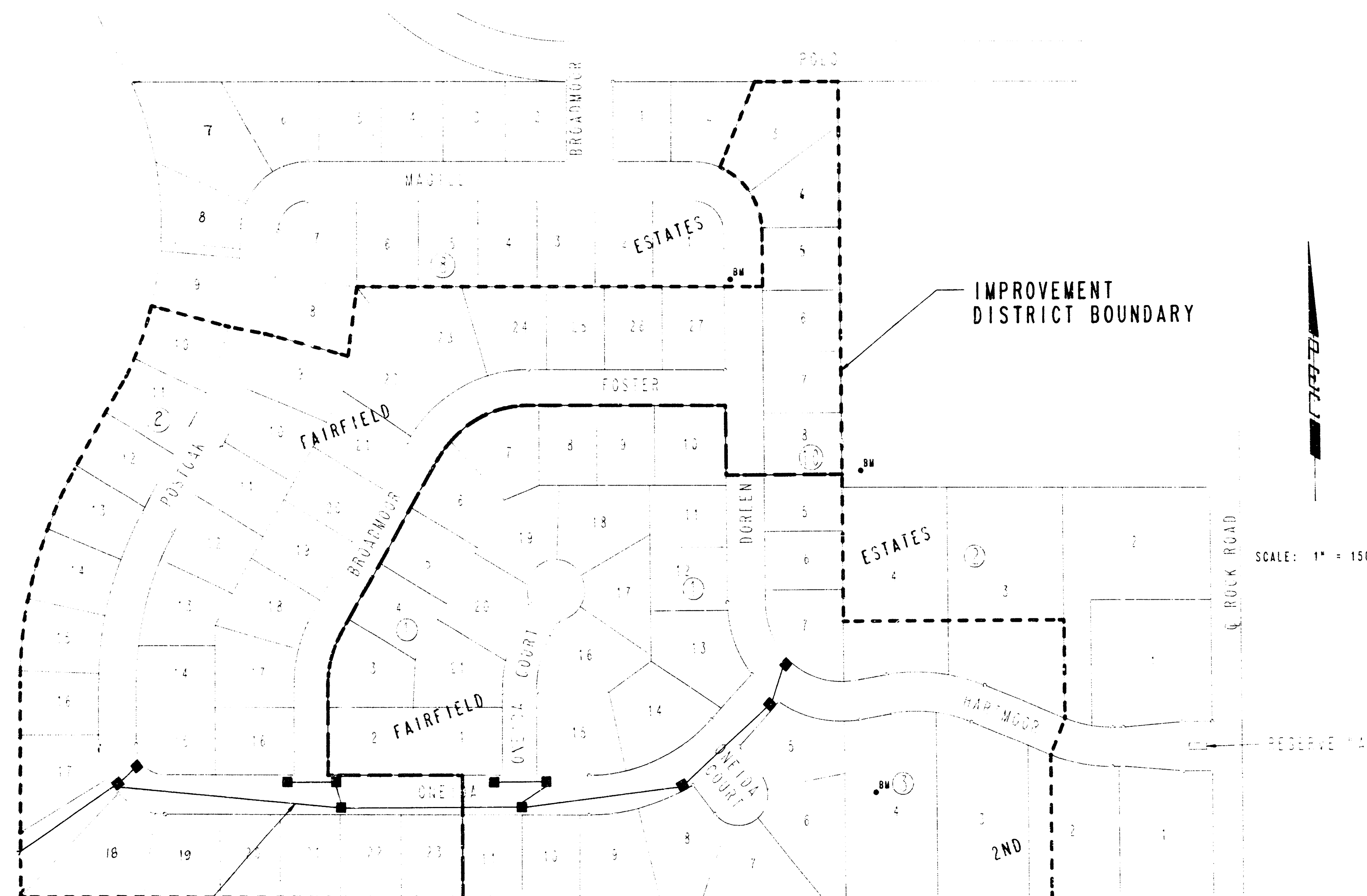
BENCH MARK: R.R. SPIKE IN 42" ELM. 1.0' ABOVE GROUND, LOCATED IN LOT 4, BLOCK 3 FAIRFIELD ESTATES 2ND ADDITION
ELEV. +184.39

BENCH MARK: R.R. SPIKE IN 38" ELM. EAST OF THE SE CORNER OF LOT 8, BLOCK 2 FAIRFIELD ESTATES 2ND ADDITION
ELEV. +186.59

BENCH MARK: CHISELED "A" ON TOP OF CURB W. SIDE BOREEN ST. APPROX. 2.0' N. OF S. END OF CURB (STREET STA. 49+98)
ELEV. +183.61



STORM WATER SEWER
IMPROVEMENTS



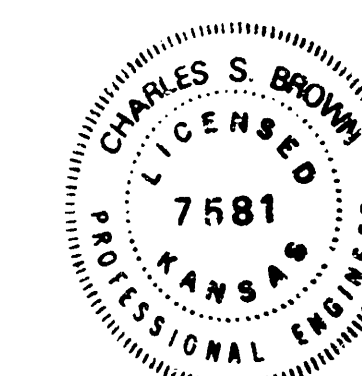
GENERAL NOTES

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. 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 UNGRACEFUL 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 TWENTY-FOUR (24) HOURS TO UTILITY COMPANIES PRIOR TO STARTING ANY EXCAVATION AS FOLLOWS:

SOUTHWESTERN BELL TELEPHONE COMPANY	1-316-571-2611
CABLEVISION	262-4270 OR 263-2061
KPL GAS SERVICE	263-7511
KANSAS GAS & ELECTRIC	264-1141
CITY OF WICHITA WATER DEPARTMENT	268-4908
CITY OF WICHITA SEWER DEPARTMENT	268-4071
ARKIA GAS COMPANY	942-8350 OR 263-8161
8. THE CONTRACTOR SHOULD BE AWARE THAT DUE TO THE PREVIOUS USE OF PROPERTY WITHIN THE LIMITS OF THIS SUBDIVISION, ACTIVE AND INACTIVE UTILITY SERVICE LINES MAY BE ENCOUNTERED DURING TRENCHING OPERATIONS. THE CONTRACTOR SHOULD BE PARTICULARLY CAREFUL IN THE AREA SURROUNDING THE EXISTING HOUSE IN LOT 3, BLOCK 2 OF FAIRFIELD ESTATES 2ND ADDITION. ANY ACTIVE UTILITY SERVICE LINES DAMAGED DURING CONSTRUCTION SHALL BE REPAIRED IMMEDIATELY BY THE CONTRACTOR. ANY INACTIVE UTILITY SERVICE LINES SHALL BE REPAIRED BY CONTRACTOR AS DIRECTED BY THE SUBDIVISION DEVELOPER. ALL COSTS INCURRED FOR WORK INVOLVING EXISTING UTILITY SERVICE LINES SHALL BE CONSIDERED INCIDENTAL TO THE PROJECT.
9. ALL AREAS WITHIN RESERVE "A", FAIRFIELD ESTATES WHICH ARE DISTURBED BY S.W.S. AND OVERFLOW CHANNEL CONSTRUCTION SHALL BE SEEDED, FERTILIZED, AND MULCHED PER CITY OF WICHITA SPECIFICATIONS. THIS WORK SHALL BE CONSIDERED SUBSIDIARY TO OTHER WORK ITEMS.
10. THE OPENING OF ALL CURB INLETS LOCATED WITHIN FUTURE PAVEMENT LIMITS SHALL BE PLUGGED BY BOARDS, PLANKS OR OTHER APPROVED METHODS TO PREVENT SOIL FROM ENTERING THE STORM WATER SEWER. THIS WORK SHALL BE CONSIDERED SUBSIDIARY TO OTHER WORK ITEMS.

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

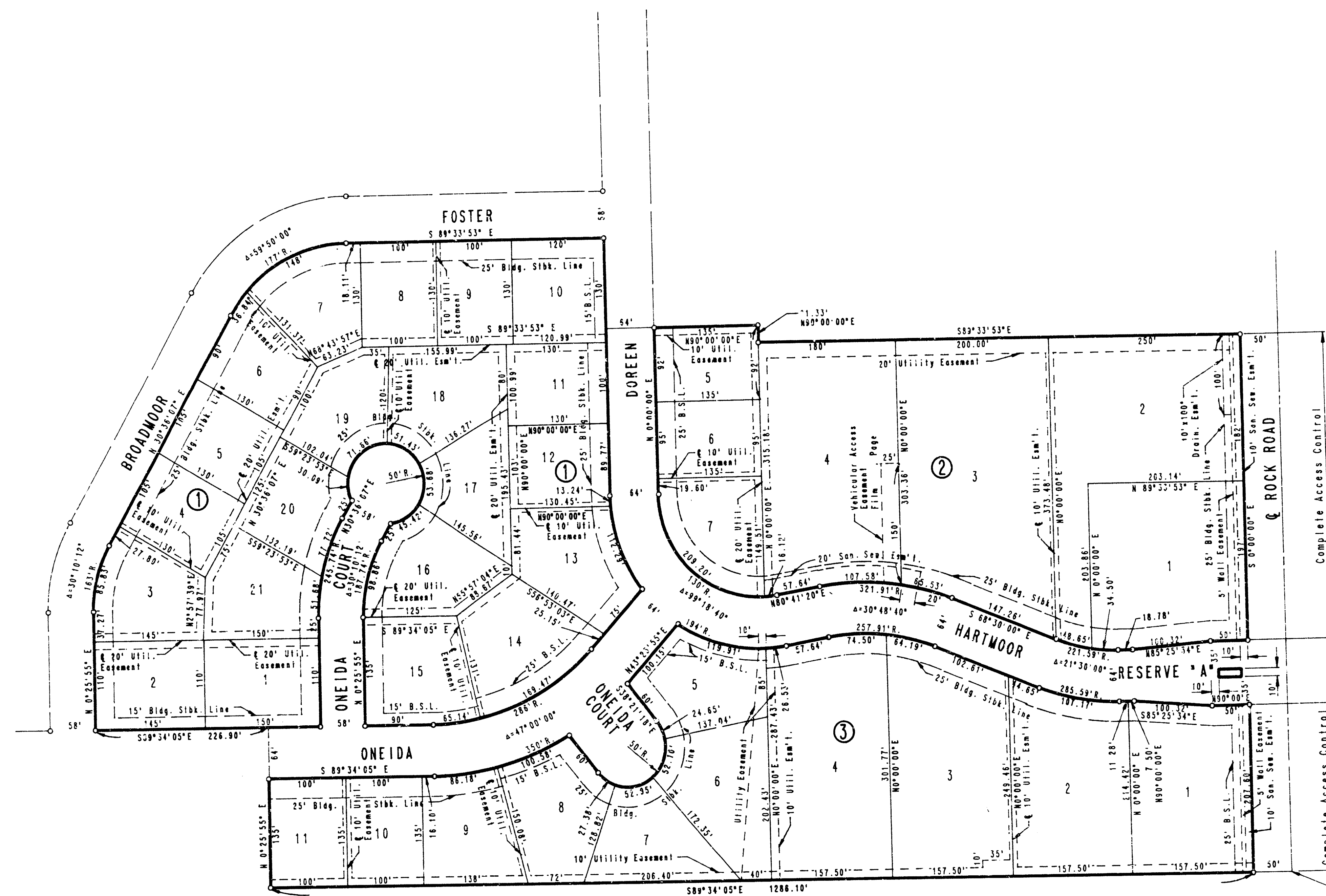
BOOKED
12/88
MCG



FAIRFIELD ESTATES 2ND ADDITION

AN ADDITION TO WICHITA, SEDGWICK COUNTY, KANSAS

PROJECT NO.	SHEET NO.	TOTAL SHEETS
472-76-245-81537-000-000-001	2	11



SCALE: 1" = 100'

○ = IRON SET

B.S.L. = BUILDING SETBACK LINE

B.M. - CHISELED "D" S. END CURB RETURN
WEST SIDE ROCK RD. AT E. 1/4 COR.
SEC. 18, T27S, R2E.
ELEV. -179.18 CITY DATUM

S.E. Cor. N.E. 1/4
Sec. 18, T27S, R2E
of the 6th P.M.

FAIRFIELD ESTATES 2ND ADDITION

PLAT

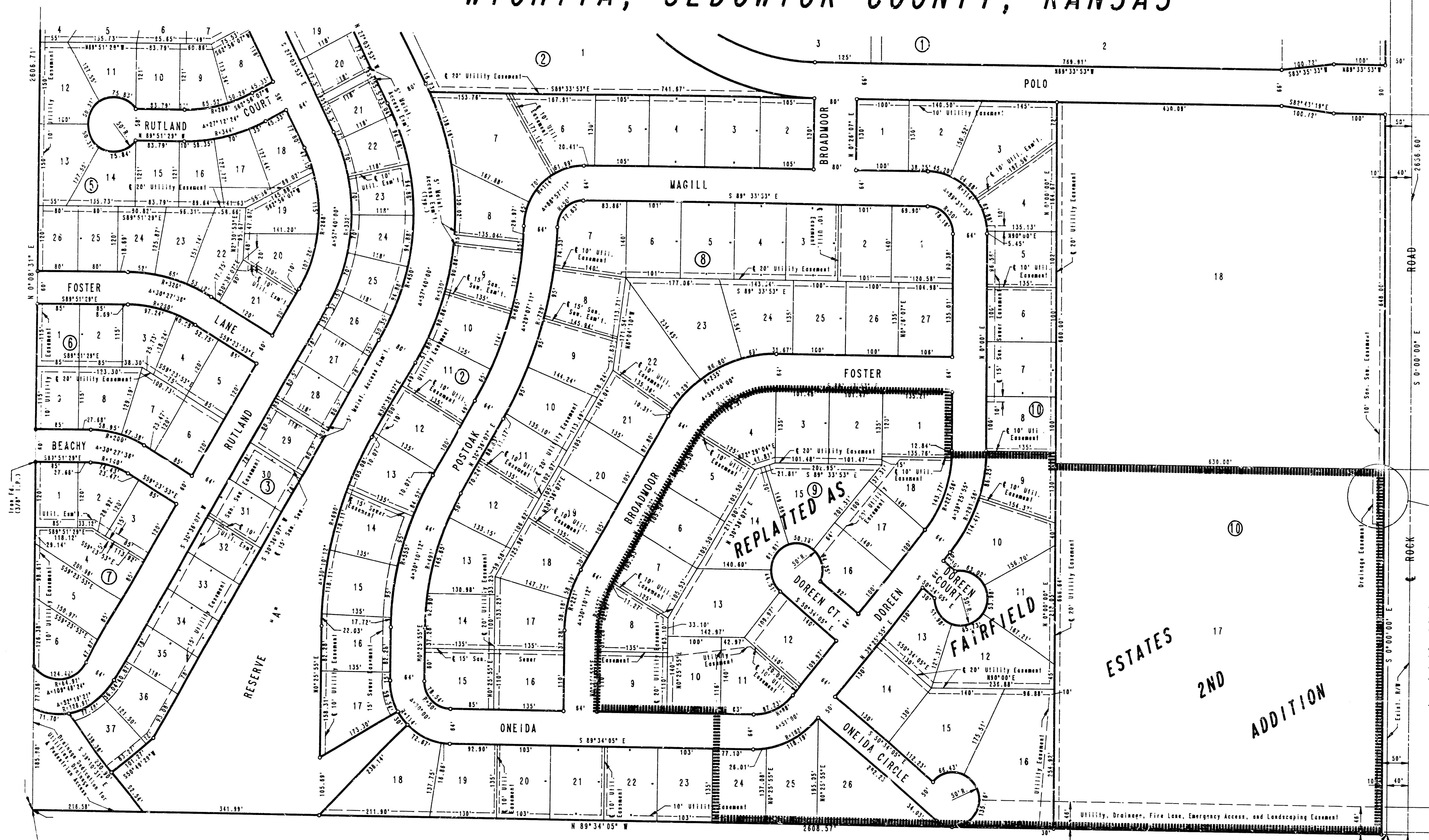
PROFESSIONAL ENGINEERING CONSULTANTS, P.A.
ENGINEERS
WICHITA, KANSAS

Designed by	Checked by
Drew by DEP	Date MAR., 1988 Job No. 87615-1

FAIRFIELD ESTATES

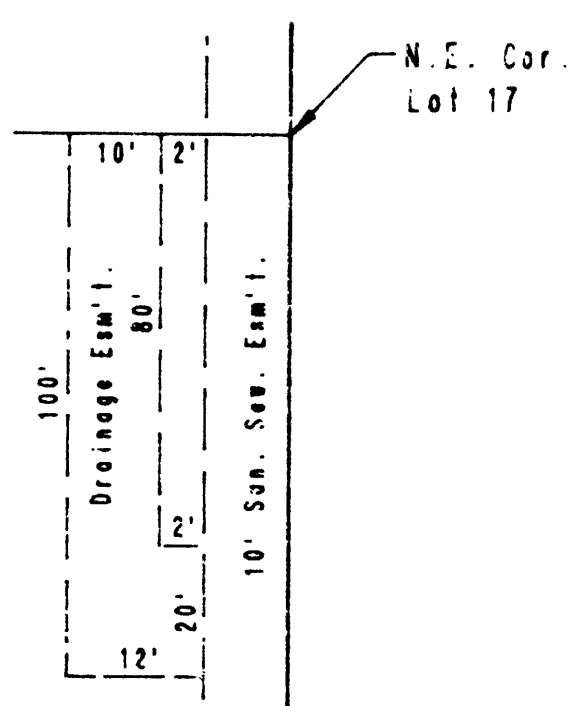
WICHITA, SEDGWICK COUNTY, KANSAS

PROJECT NO.	SHEET NO.	TOTAL SHEETS
472-76-245-81537-000-001	3	11



SCALE: 1" = 100'
C.A.C. = COMPLETE ACCESS CONTROL
SEE SHEET NO. 1 FOR BENCH MARK

BUILDING SETBACKS AS PER THE REQUIREMENTS OF THE FAIRFIELD COMMERCIAL C.U.P. (DP-144), FAIRFIELD RESIDENTIAL C.U.P. (DP-145), AND FAIRFIELD ESTATES C.U.P. (DP-149) ON FILE WITH THE WICHITA SEDGWICK COUNTY METROPOLITAN AREA PLANNING DEPARTMENT.

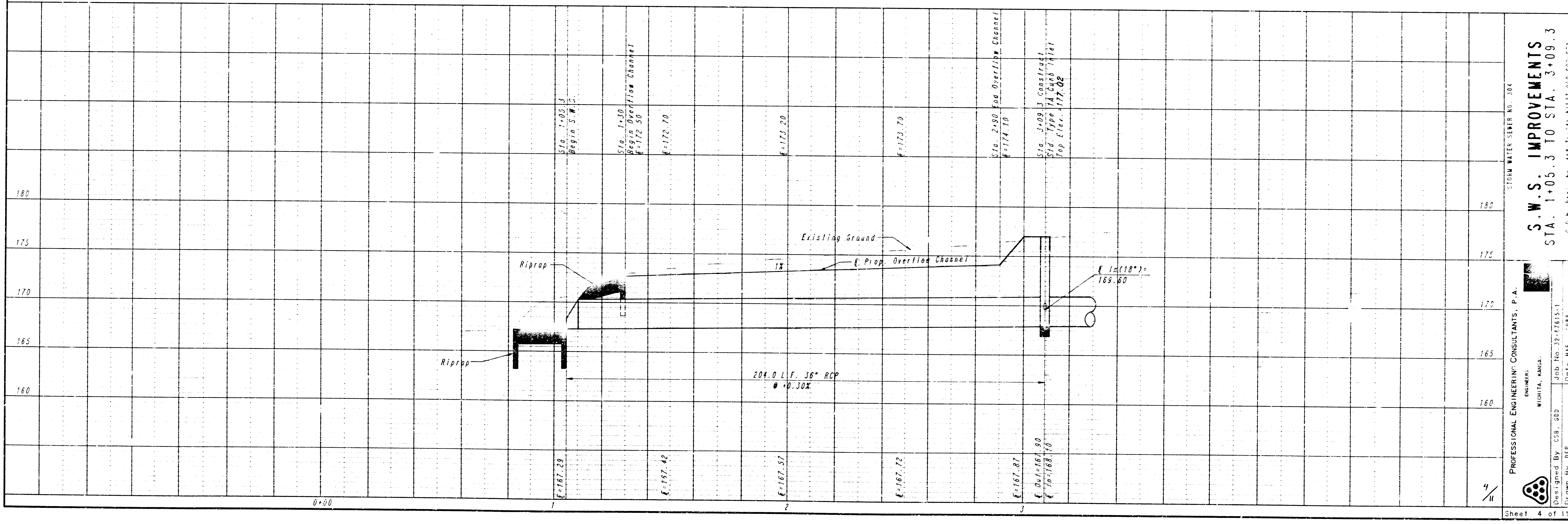
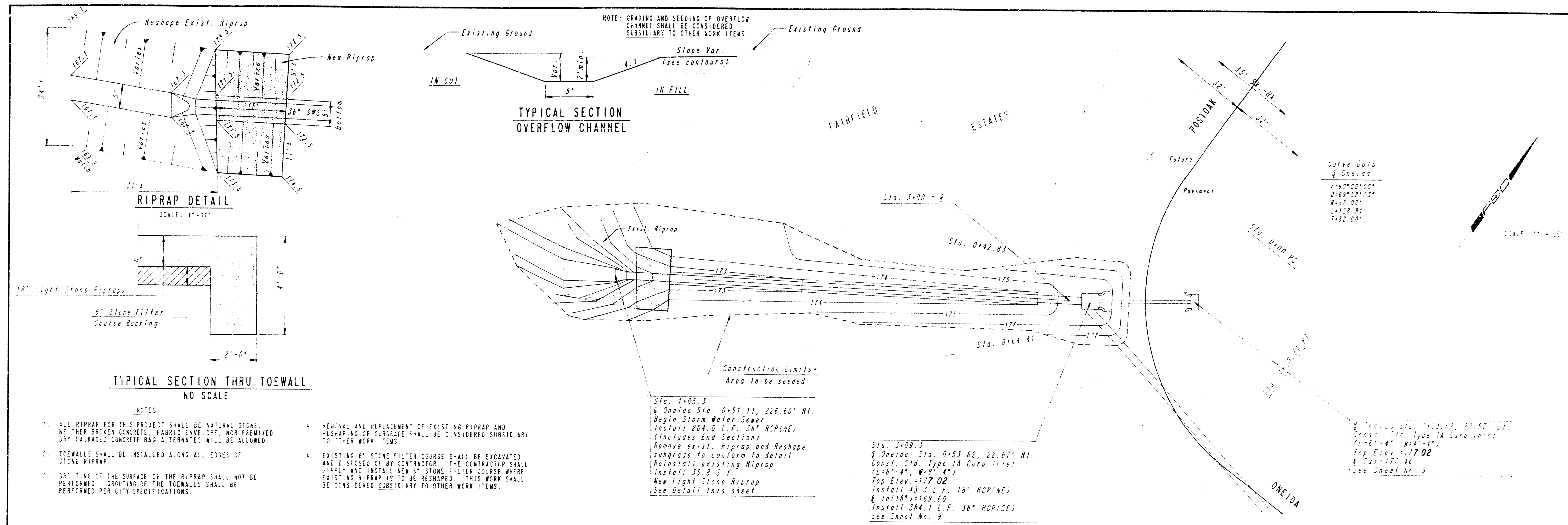


SW Cor. NE 1/4
Sec. 18, T27S, R2E
of the 6th P.M.

SE Cor. NE 1/4
Sec. 18, T27S, R2E
of the 6th P.M.

PLAT

PROFESSIONAL ENGINEERING CONSULTANTS, P.A.	
ENGINEERS WICHITA, KANSAS	
Designed by	Checked by
Drawn by DEP	Date MAR., 1988 Job No. 87615-1



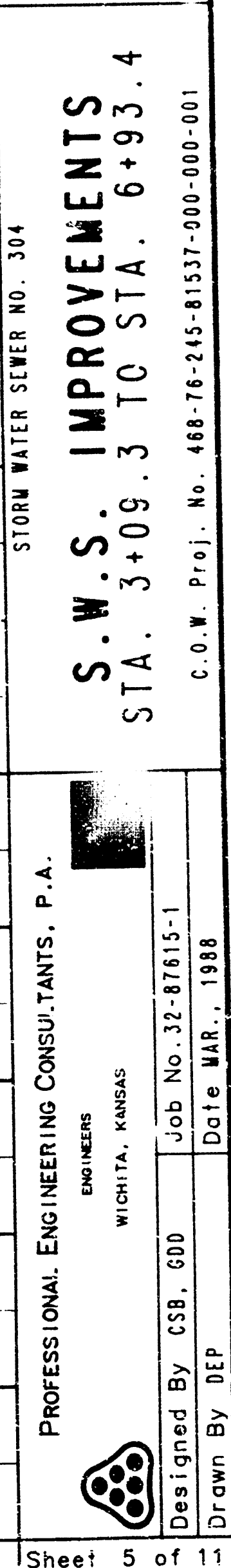
S.W.S. IMPROVEMENTS
STA. 1+05.3 TO STA. 3+09.3

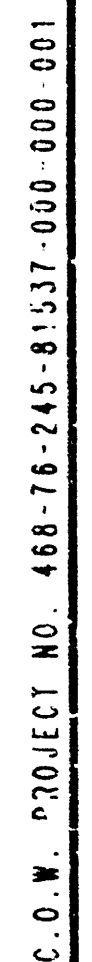
PROFESSIONAL ENGINEERING CONSULTANTS, P.A.
 ENGINEERS
 WIGHTMAN, KANGAL

DESIGNED BY: CSB, CDD
DRAWN BY: DEP

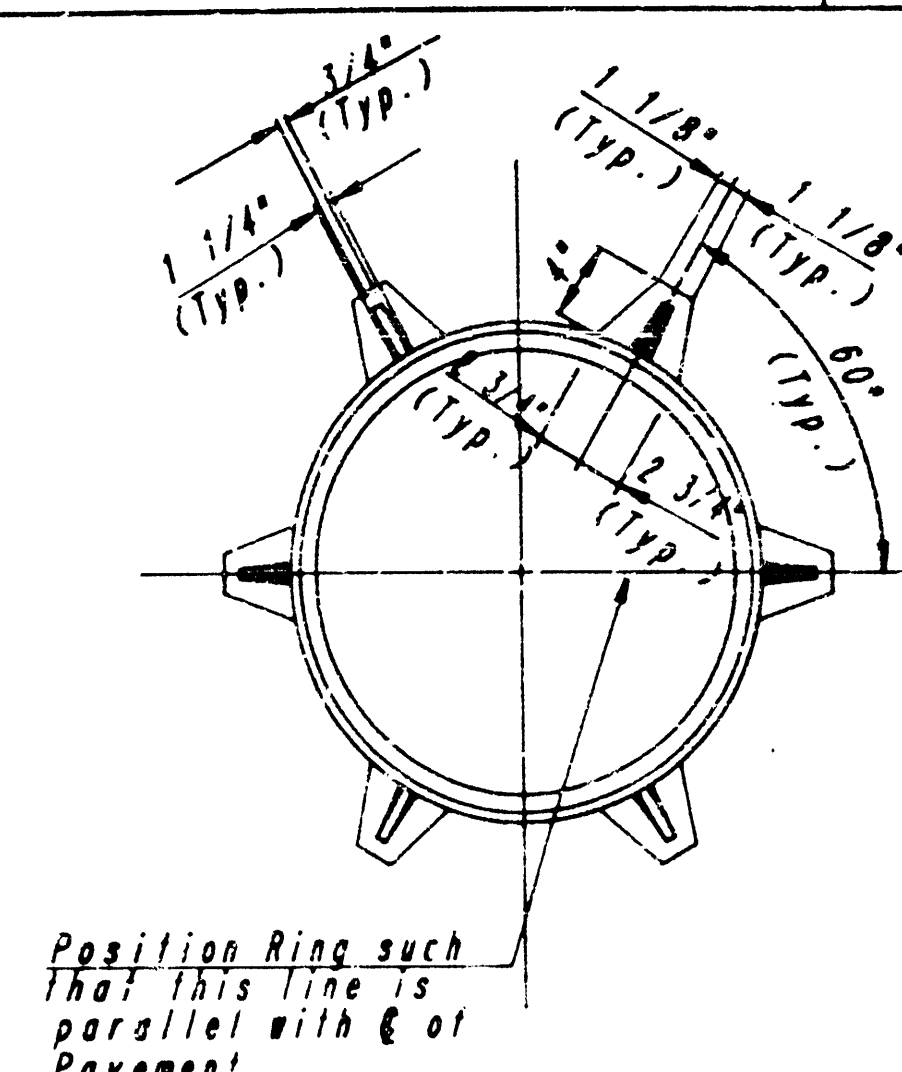
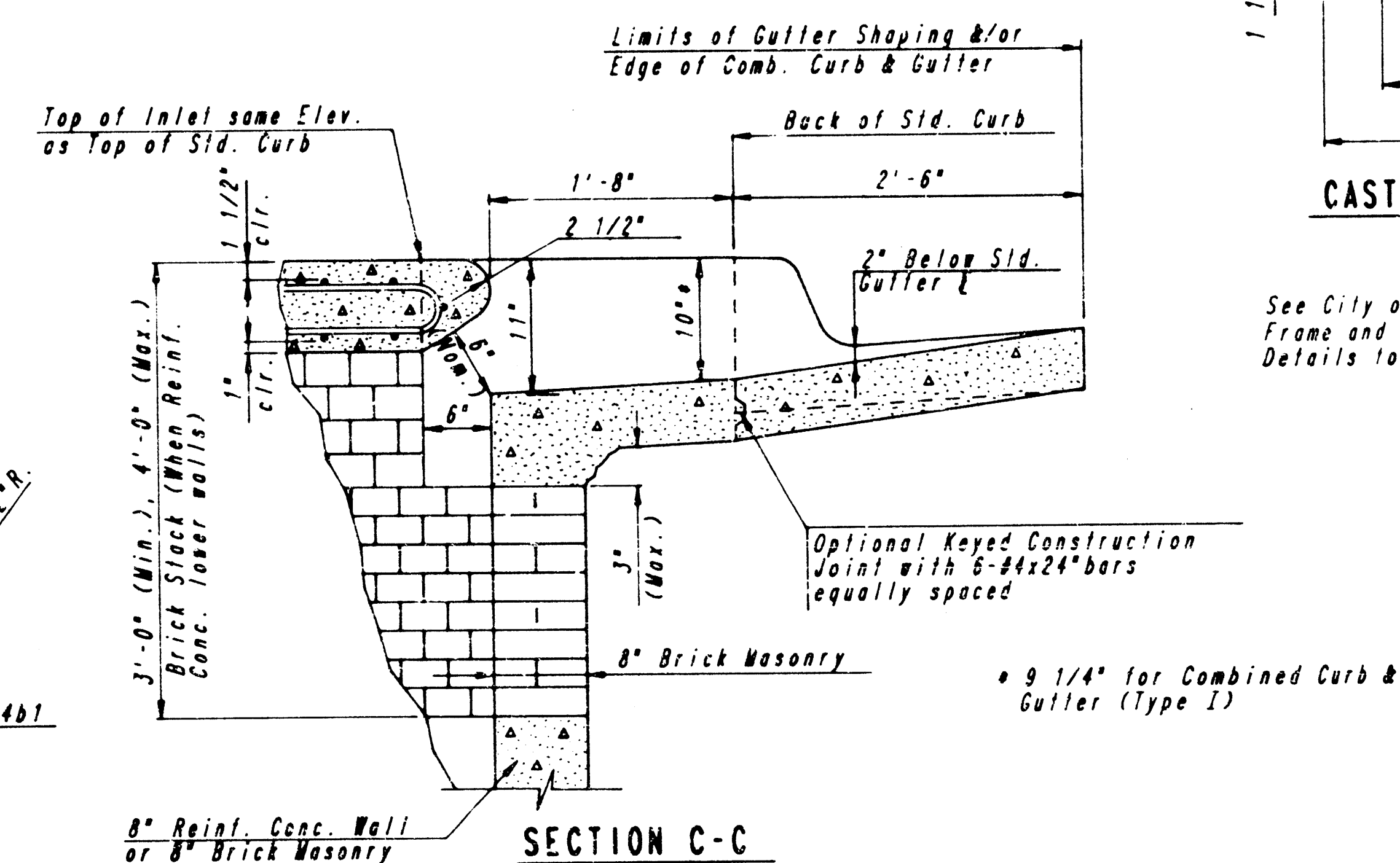
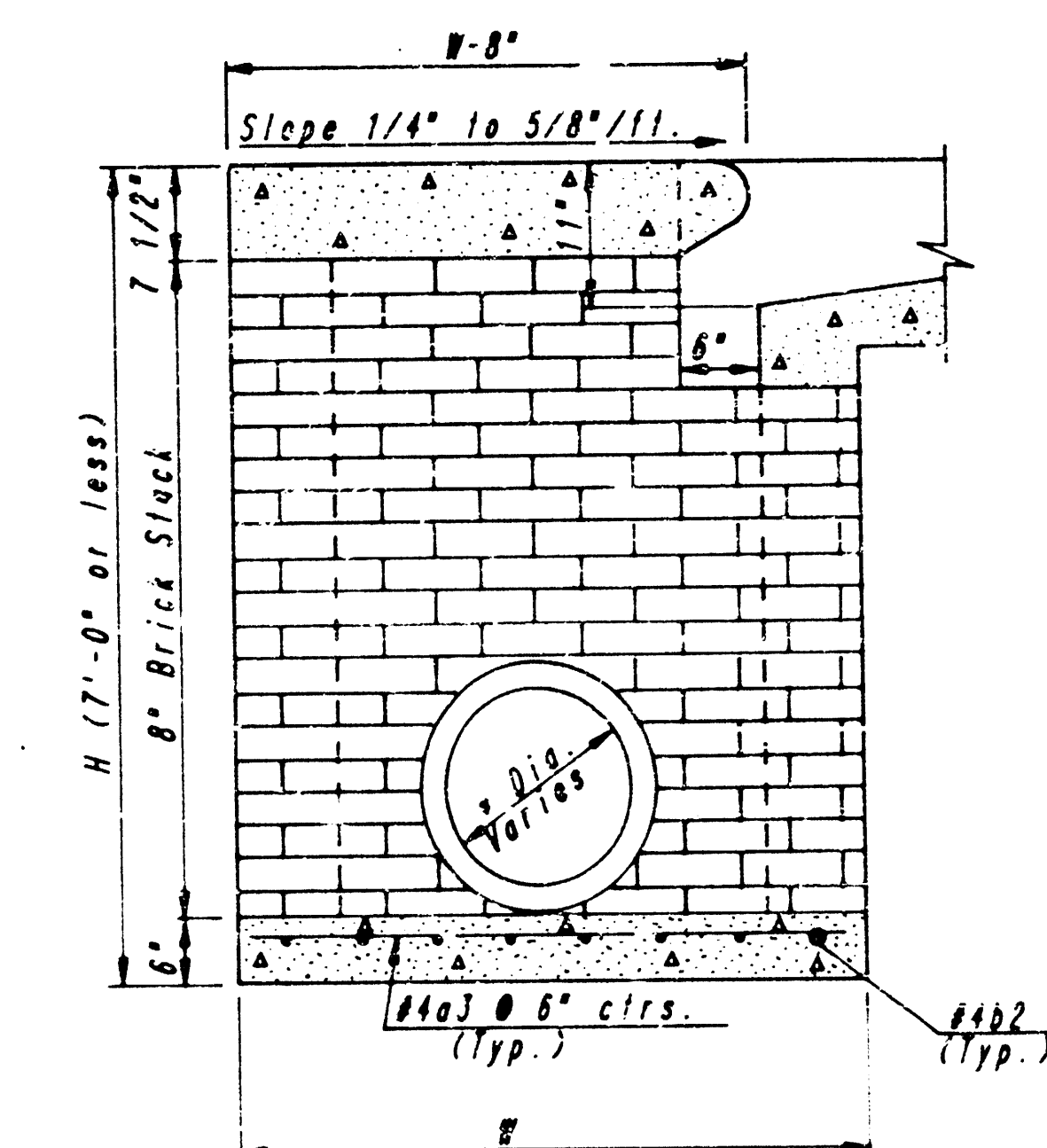
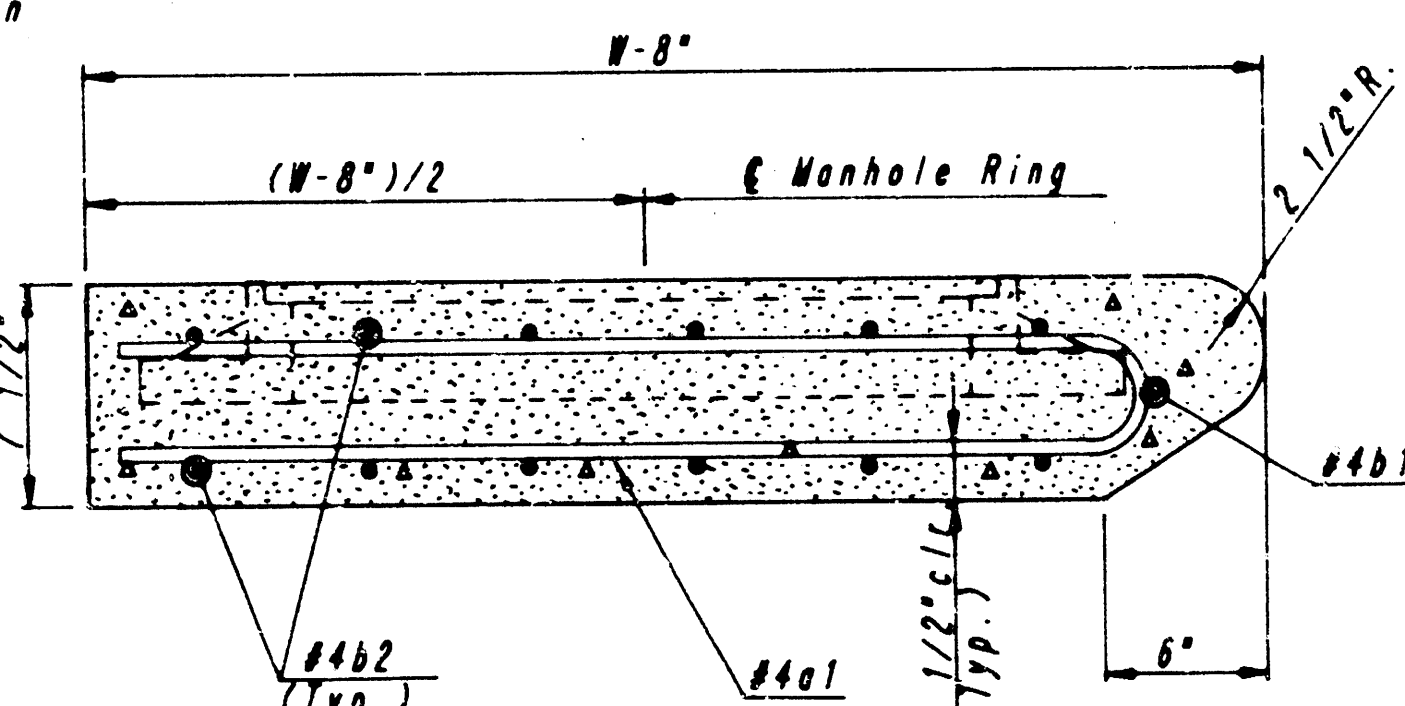
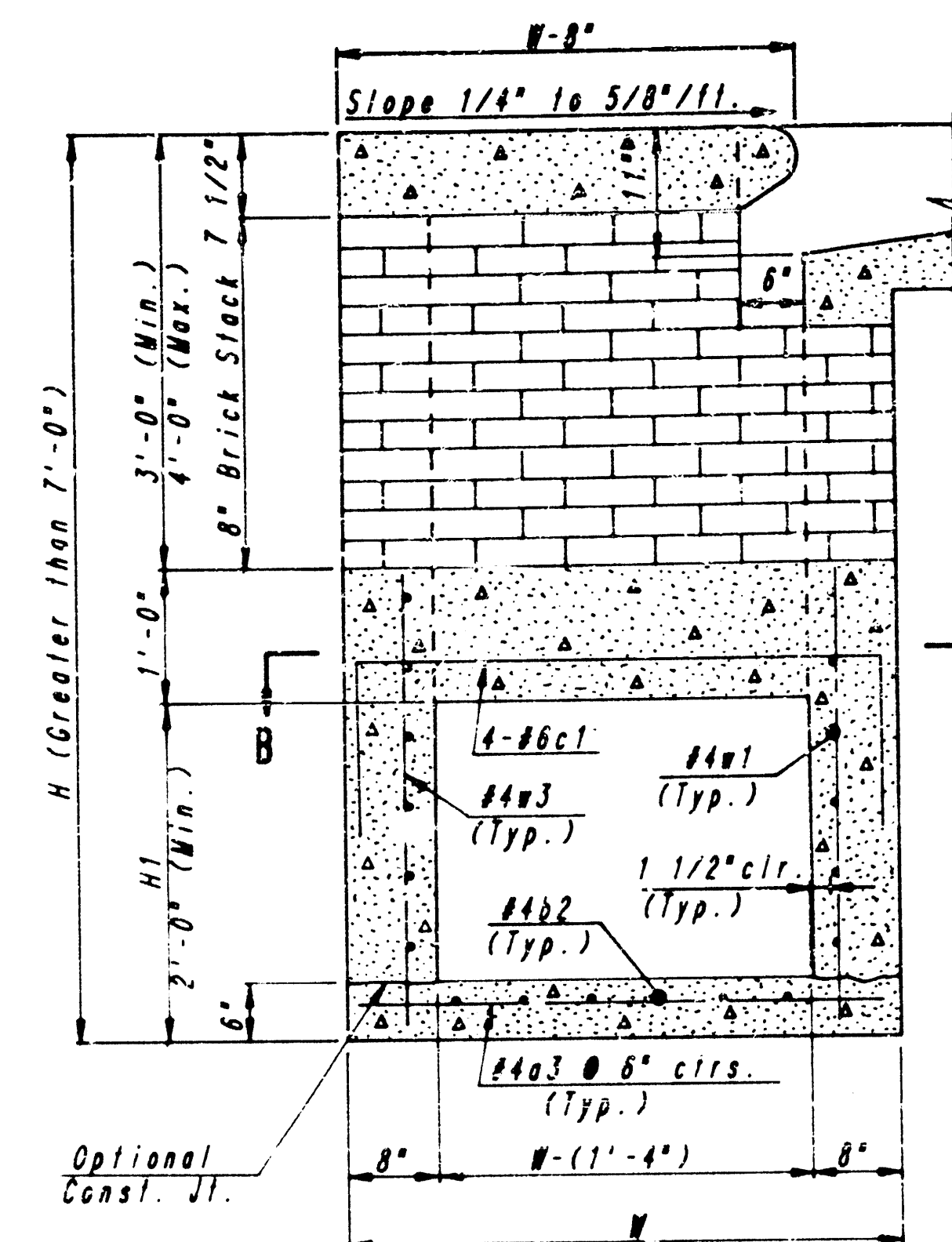
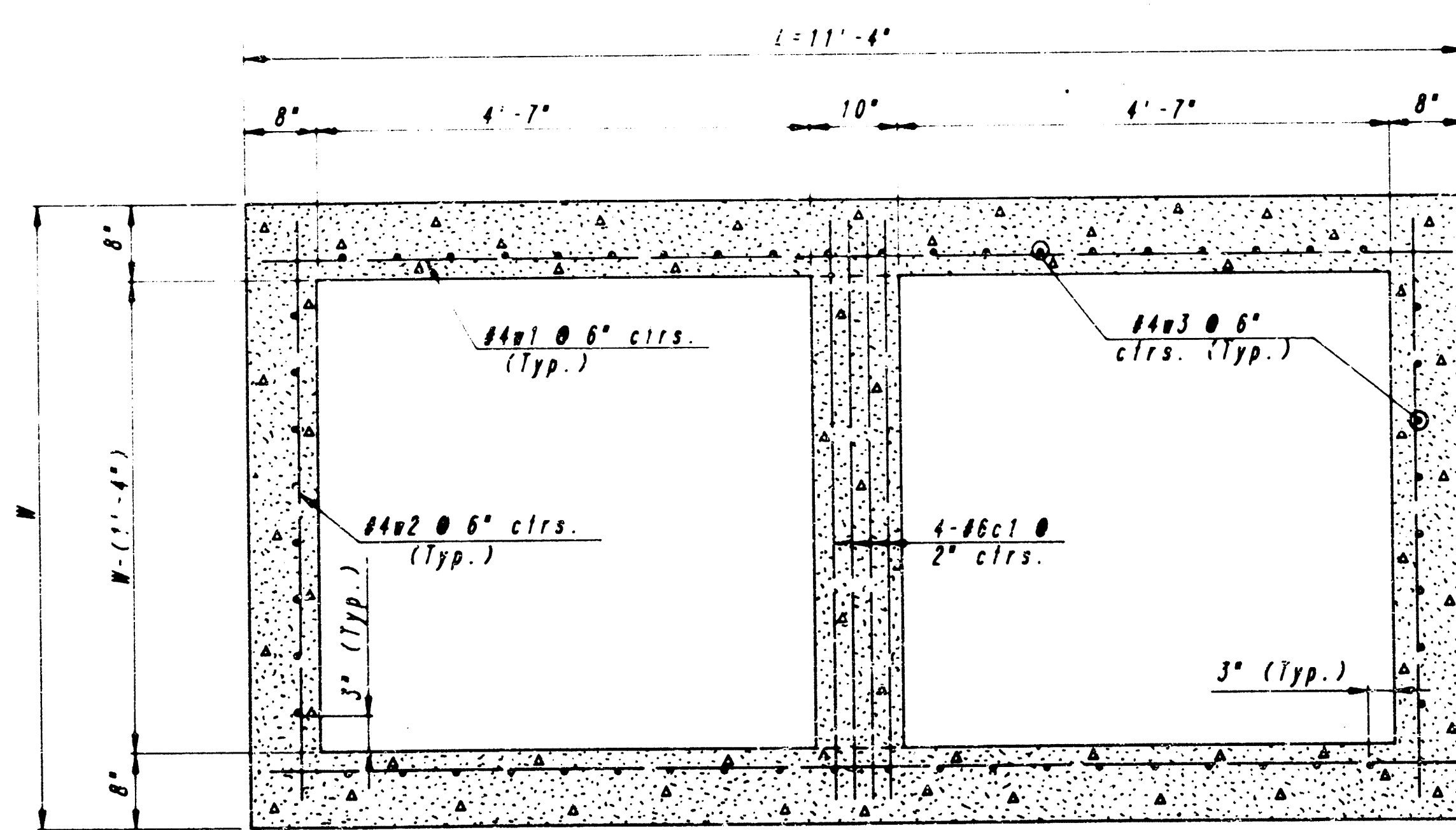
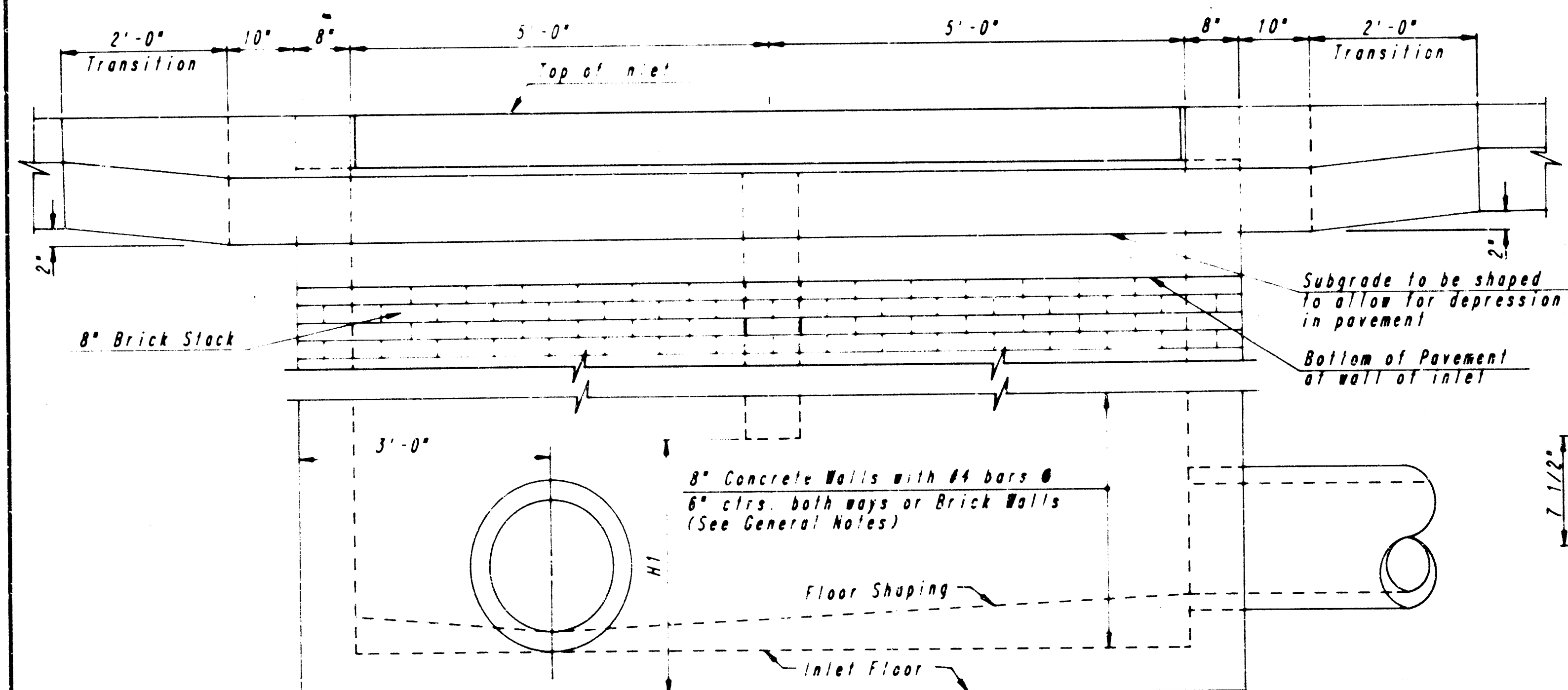
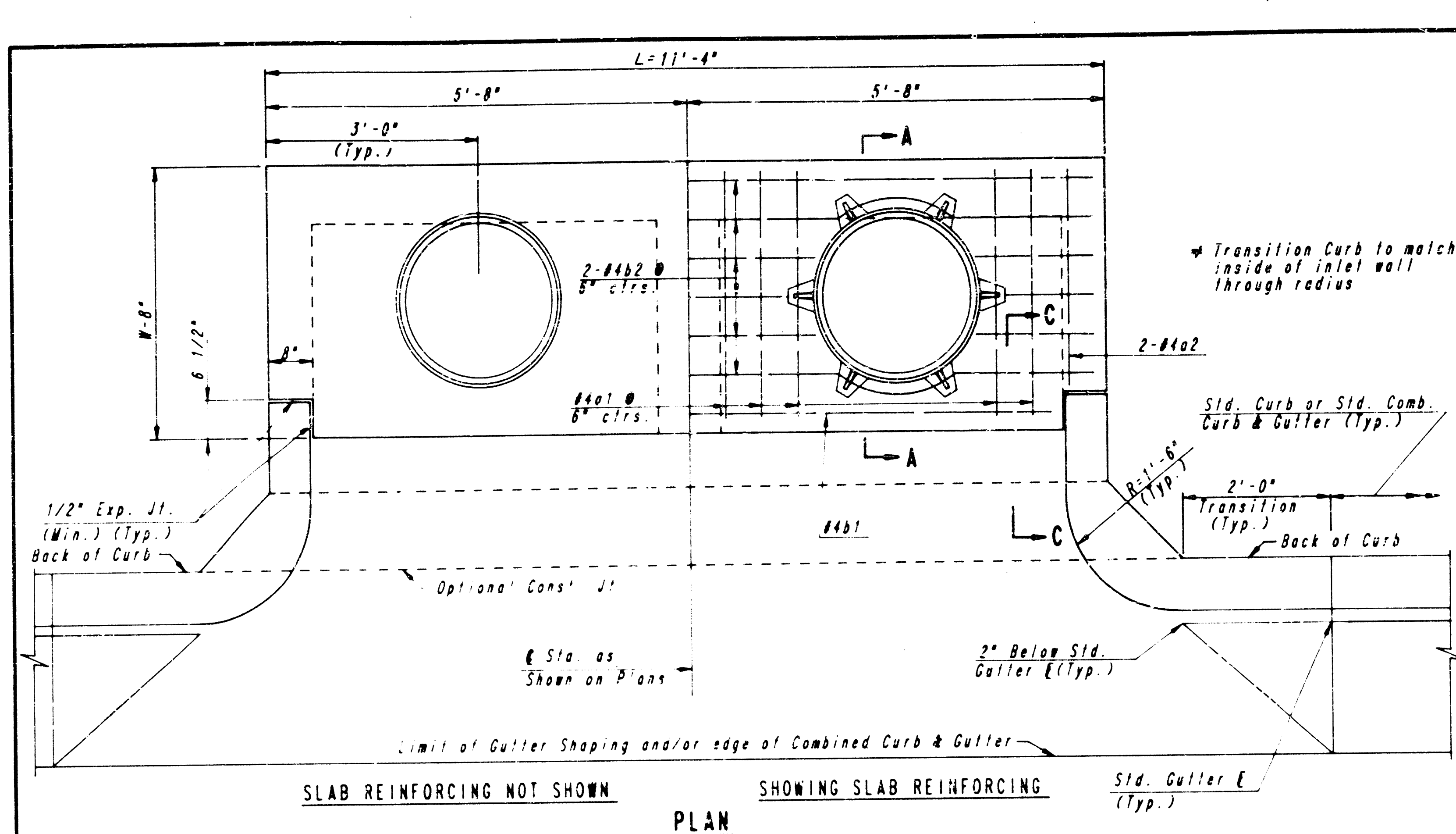
STORM WATER SEWER NO. 304

Sheet 4 of 11









CAST IRON INLET FRAME
Wt. = 180 lbs.

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

GENERAL NOTES

THE CONTRACTOR WILL BE REQUIRED TO CONSTRUCT 8" BRICK MASONRY WALLS BETWEEN THE CONCRETE INLET BASE AND TOP ON THIS INLET WHEN $W=4'-4"$ OR LESS AND $W=7'-0"$ OR LESS. WHEN W IS GREATER THAN $4'-4"$ AND W IS LESS THAN $7'-0"$, 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 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.

CONCRETE SHALL BE CITY OF WICHITA STANDARD PAYING MIX. ALL EXPOSED EDGES SHALL BE FINISHED WITH AN EDGING TOOL. INLET TOPS ARE TO BE PLACED ON A THIN MORTAR CUSHION TO INSURE FULL SUPPORT ALONG BRICE WALLS. CONCRETE TOPS MAY BE PRECAST OR CAST IN PLACE. INLET TOPS SHALL BE NOTCHED OUT AS INDICATED ON ATTACHED DRAWING. TOPS SHALL BE 12" IN DIAMETER. BARS SHALL BE REINFORCED. ALL BARS ARE #4 OR #6 MAX. CENTERS AND SHALL HAVE A MINIMUM CLEARANCE OF 1-1/2". BARS SHALL BE FIELD BENT OR CUT TO CLEAR MANHOLE RINGS 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 HOOKUP".

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100	101	102	103	104	105	106	107	108	109	110	111	112	113	114	115	116	117	118	119	120	121	122	123	124	125	126	127	128	129	130	131	132	133	134	135	136	137	138	139	140	141	142	143	144	145	146	147	148	149	150	151	152	153	154	155	156	157	158	159	160	161	162	163	164	165	166	167	168	169	170	171	172	173	174	175	176	177	178	179	180	181	182	183	184	185	186	187	188	189	190	191	192	193	194	195	196	197	198	199	200	201	202	203	204	205	206	207	208	209	210	211	212	213	214	215	216	217	218	219	220	221	222	223	224	225	226	227	228	229	230	231	232	233	234	235	236	237	238	239	240	241	242	243	244	245	246	247	248	249	250	251	252	253	254	255	256	257	258	259	260	261	262	263	264	265	266	267	268	269	270	271	272	273	274	275	276	277	278	279	280	281	282	283	284	285	286	287	288	289	290	291	292	293	294	295	296	297	298	299	300	301	302	303	304	305	306	307	308	309	310	311	312	313	314	315	316	317	318	319	320	321	322	323	324	325	326	327	328	329	330	331	332	333	334	335	336	337	338	339	340	341	342	343	344	345	346	347	348	349	350	351	352	353	354	355	356	357	358	359	360	361	362	363	364	365	366	367	368	369	370	371	372	373	374	375	376	377	378	379	380	381	382	383	384	385	386	387	388	389	390	391	392	393	394	395	396	397	398	399	400	401	402	403	404	405	406	407	408	409	410	411	412	413	414	415	416	417	418	419	420	421	422	423	424	425	426	427	428	429	430	431	432	433	434	435	436	437	438	439	440	441	442	443	444	445	446	447	448	449	450	451	452	453	454	455	456	457	458	459	460	461	462	463	464	465	466
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[illegible][illegible]

* Field bend or cut Reinforcing as required for clearance
 ① $4(H1-6") + 4(H1-6")$ Rounded down to nearest 0.5'
 ② $40 \times 4(W - 15")$ ③ $H1 \times (9")$

① $4(H1-6'') + 4(H1-6'')$ Rounded down to nearest 0.5

② $40 + 4(W - 15")$ ③ $H1 + (9")$

CITY OF WICHITA, KANSAS

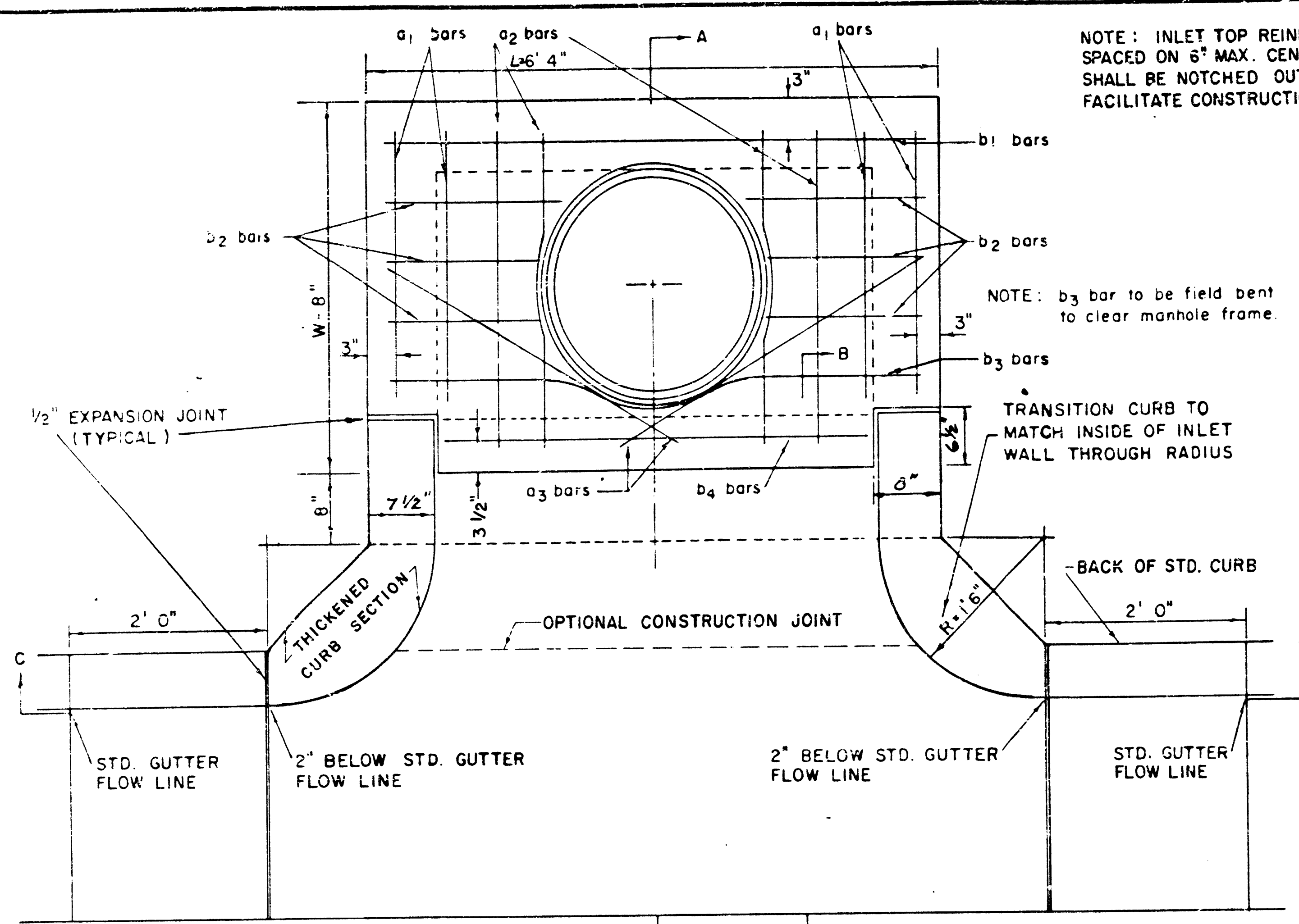
**DETAIL STANDARD
TYPE 1A CURB INLET**
INLET OPENING = 6" X 10" - 6" (L=11'-4")

INLET OPENING = 6' X 10' - 8" (L=11'-4")

PROFESSIONAL ENGINEERING CONSULTANTS, P.A.

ENGINEERS
WICHITA, KANSAS

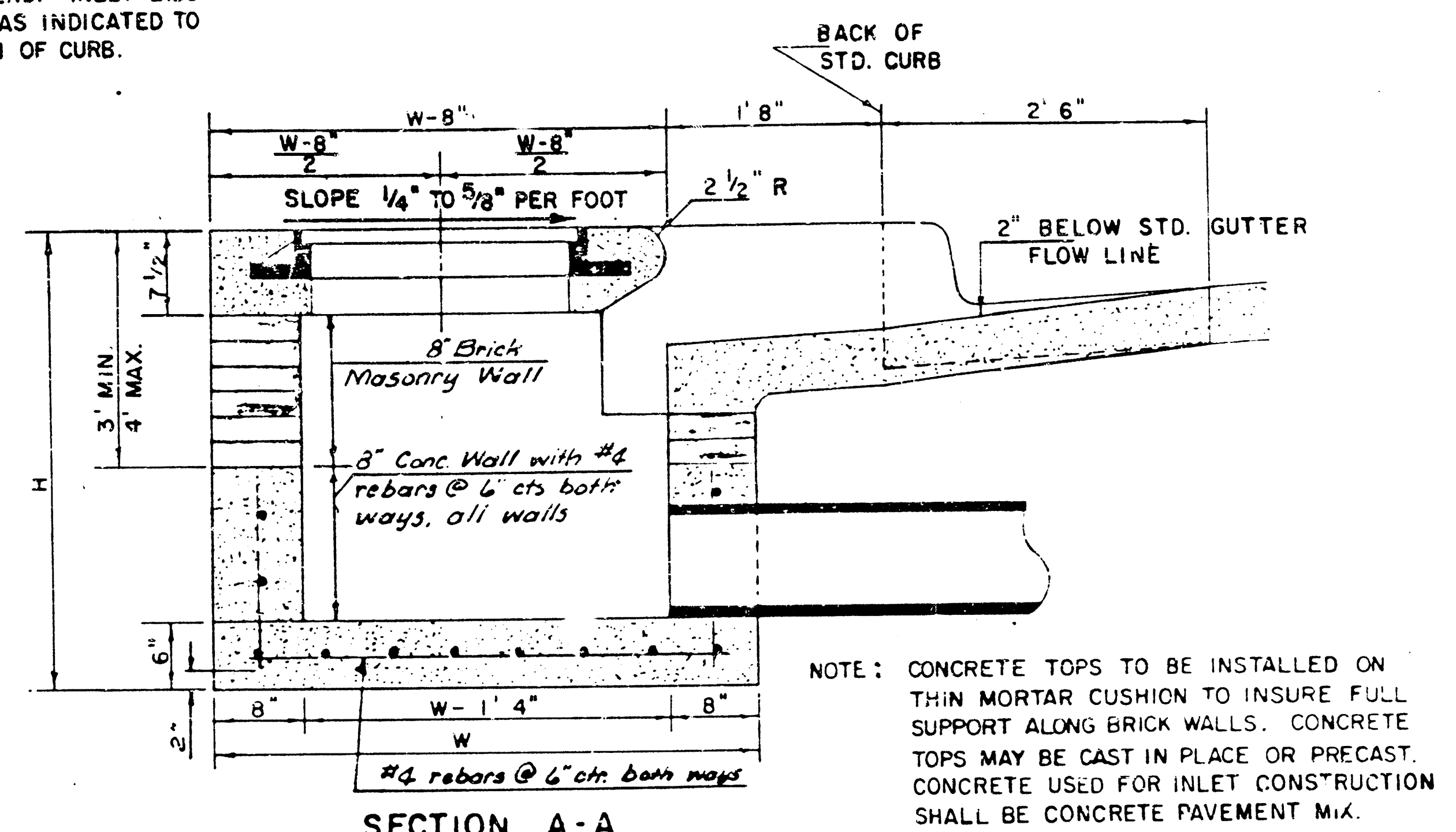
Designed by		Checked by	
Drawn by		Date	Job No. 87615-1



PLAN

STEEL SCHEDULE													
S&R	a ₁	a ₂	a ₃	b ₁					b ₂	b ₃	b ₄	WT. LBS.	
				W=4'4"	W=5'4"	W=6'4"	W=7'4"	W=8'4"					
NUMBER	4	4	2	1	3	5	7	9	6	1	1		
SIZE	"4	"4	"4	"4	"4	"4	"4	"4	"4	"4	"6		
LENGTH	W=4'4"	5'7"	6'7"	4'0"	6'1"	-	-	-	1'9"	6'2"	4'8"	60 ±	
	W=5'4"	7'7"	8'7"	5'0"	-	6'1"	-	-	1'9"	6'2"	4'8"	81 ±	
	W=6'4"	9'7"	10'7"	6'0"	-	6'1"	-	-	1'9"	6'2"	4'8"	101 ±	
	W=7'4"	11'7"	12'7"	7'0"	-	-	-	6'1"	-	1'9"	6'2"	4'8"	121 ±
	W=8'4"	13'7"	14'7"	8'0"	-	-	-	6'1"	1'9"	6'2"	4'8"	141 ±	

* NOTE: c₃ BARS TO BE PLACED APPROX. 2" BELOW TOP OF INLET COVER

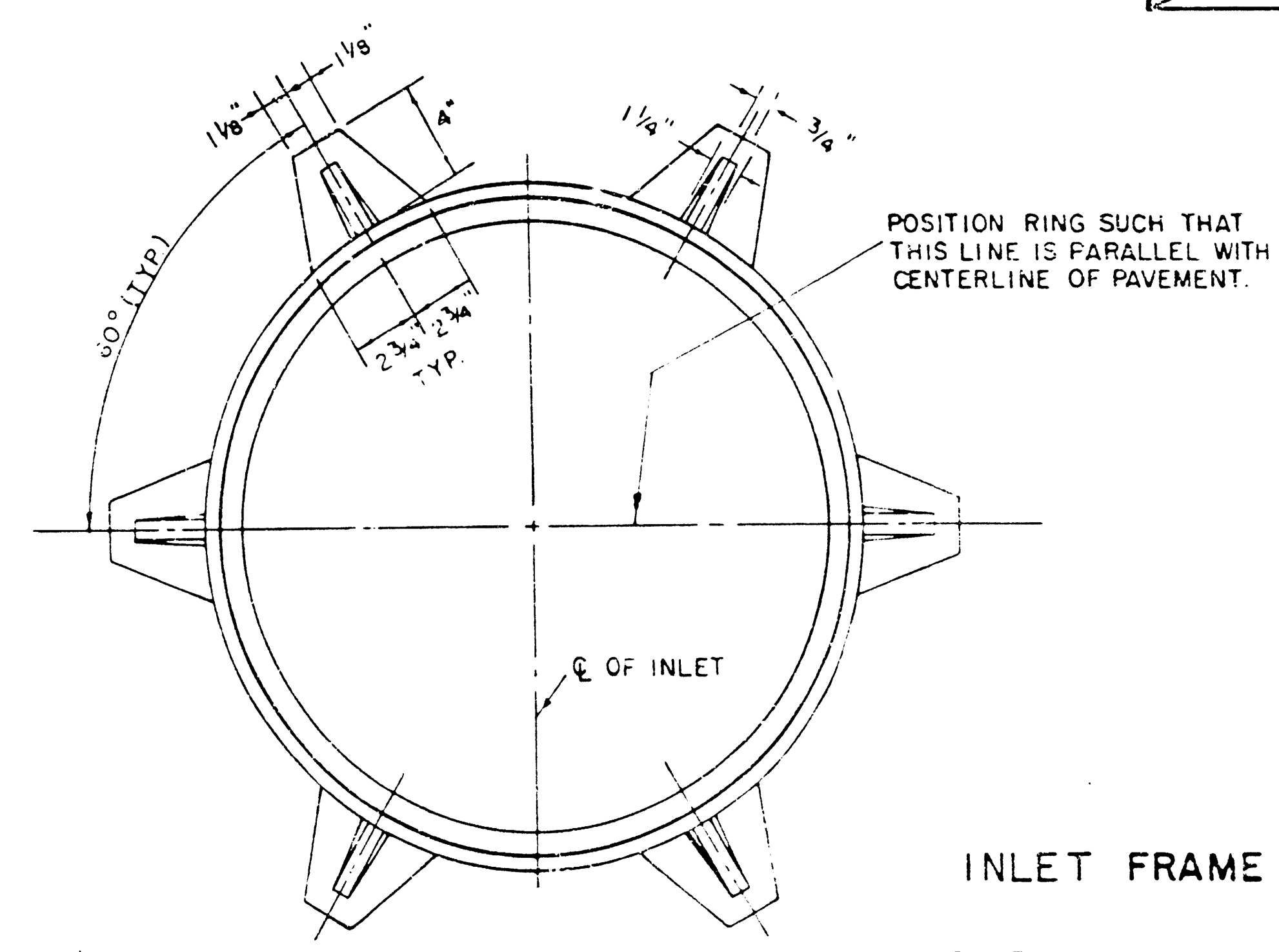


SECTION A-A

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.

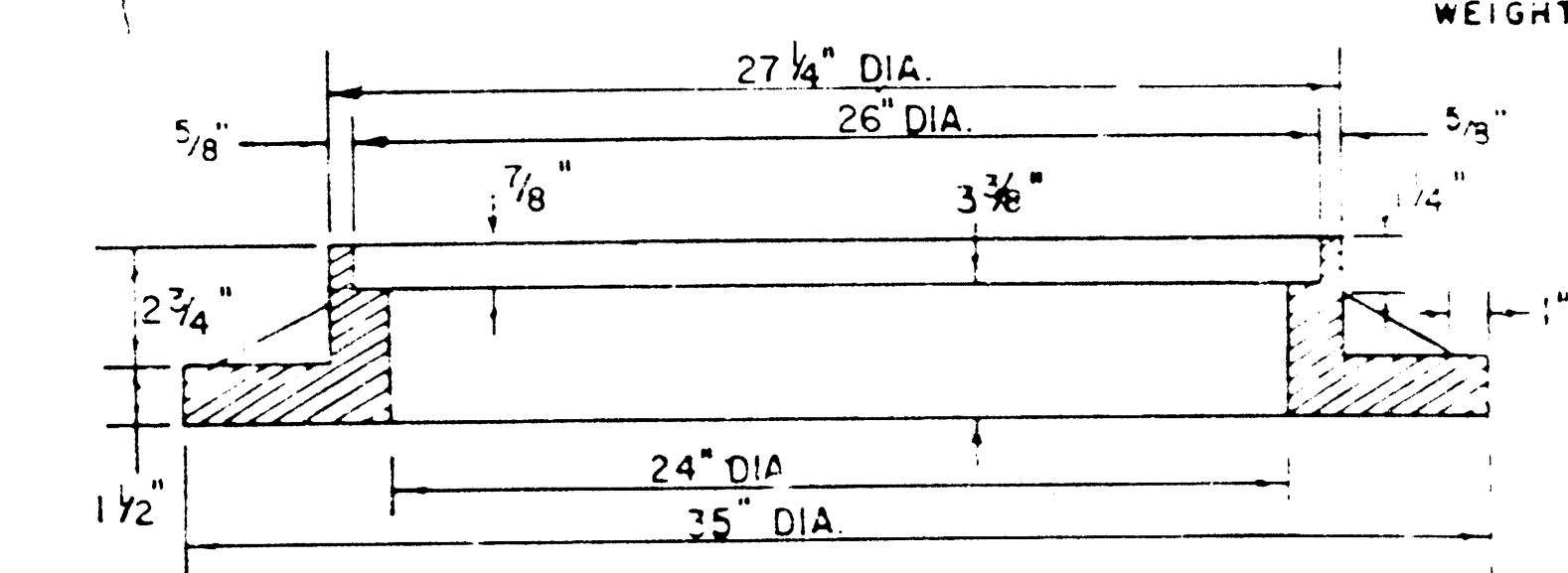
INLET INVERT SHALL BE SHAPED WITH 8 SACK SAND MIX CONCRETE TO
CREATE FLOW CHANNELS AND TO INCREASE HYDRAULIC EFFICIENCY SUCH
THAT THE INLET WILL BE SELF CLEANING BETWEEN ALL INLET AND/OR
OUTLET PIPES.

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



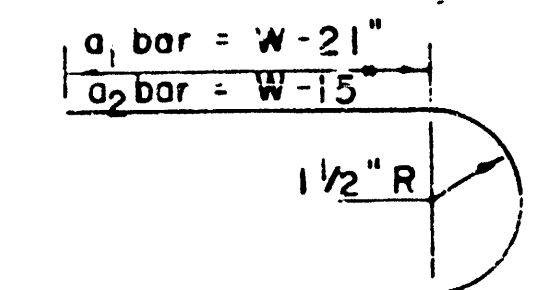
INLET FRAME

WEIGHT = 180 LBS.

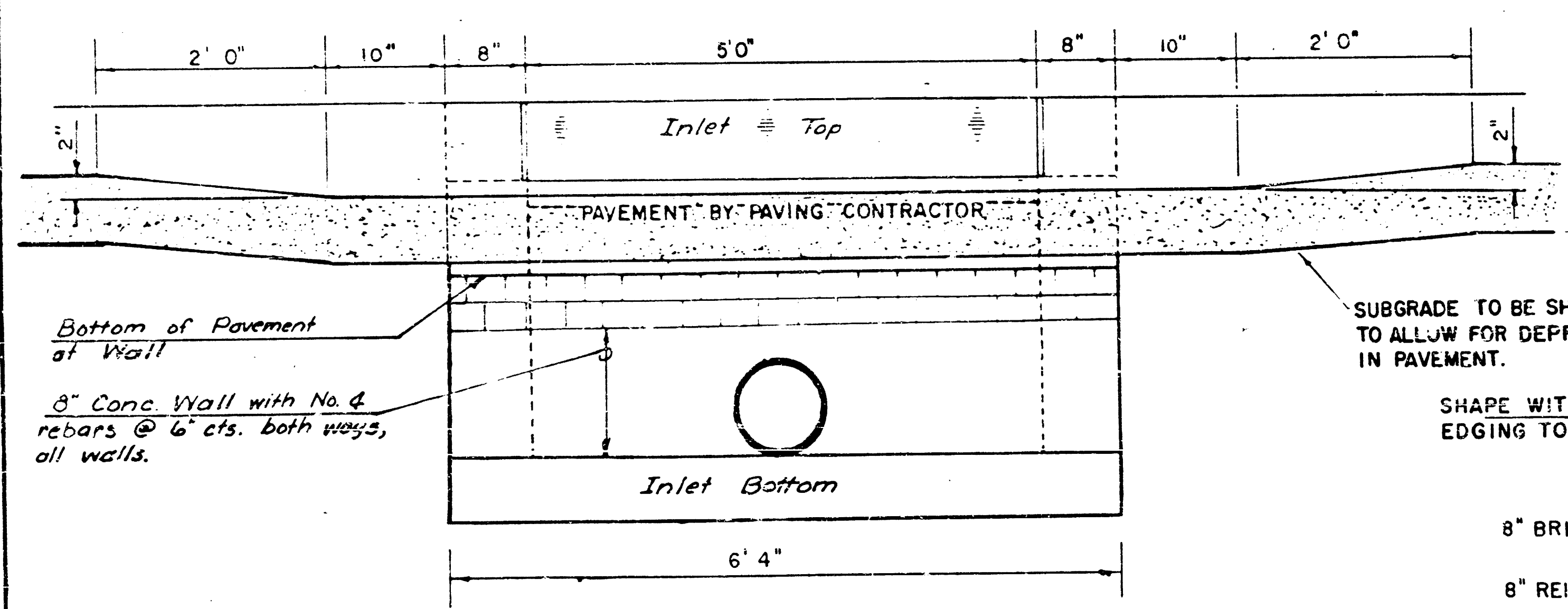


SEE CITY OF WICHITA STANDARD MANHOLE FRAME
AND COVER DETAIL SHEET FOR COVER DETAILS
TO BE USED WITH INLET FRAME.

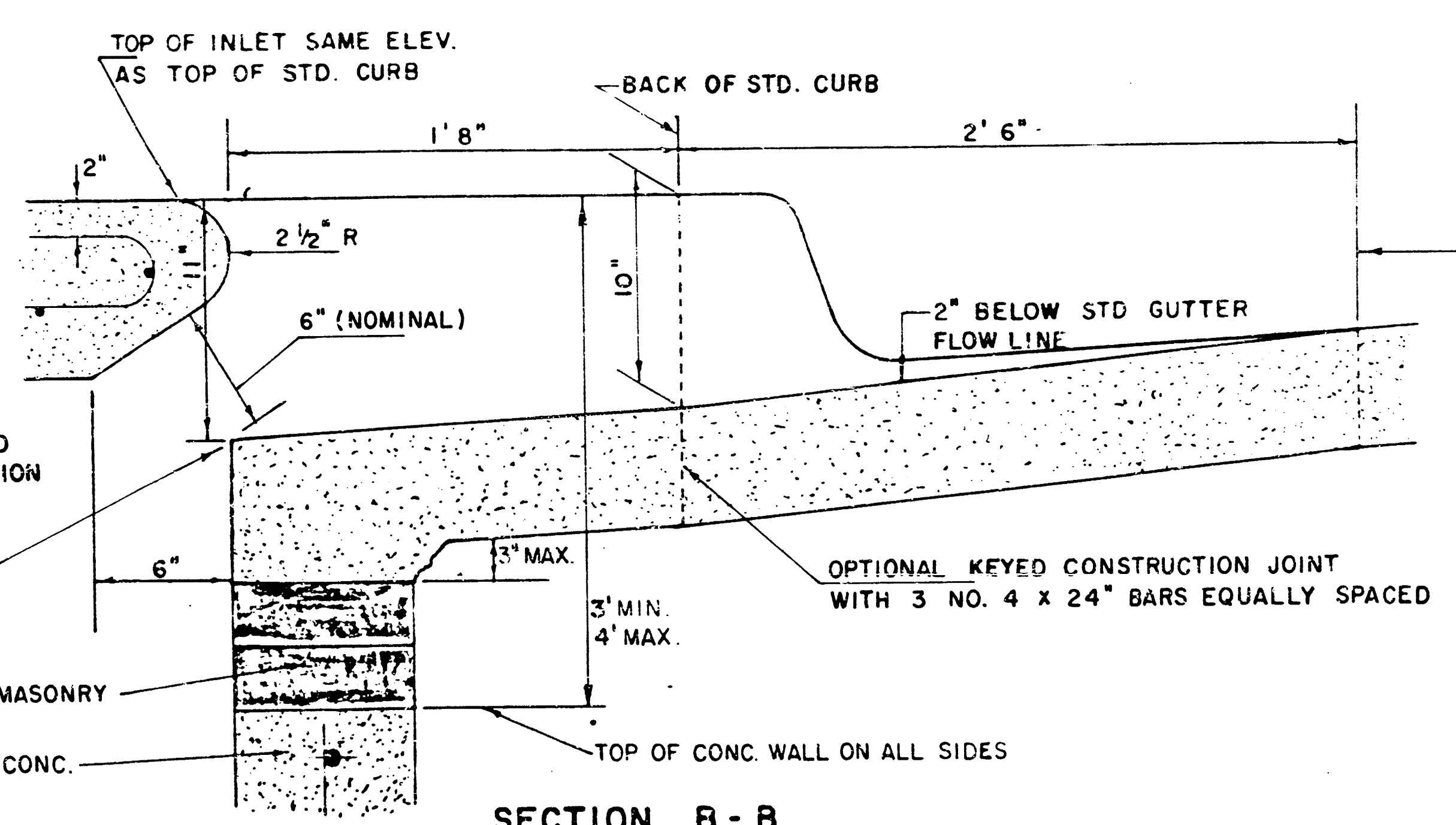
BENDING DIAGRAM



SECTION C - C



SECTION A - B

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

REVISÉ 12-21-1984 Proj. No. 468 76 245 81537 000 000 001

DETAIL STANDARD TYPE 1A CURB INLET
CITY OF WICHITA, KANSAS
INLET OPENING = 6" x 5' 0"
(L = 6'-4")
JUNE 1984

MANHOLE FRAME AND COVER DETAIL

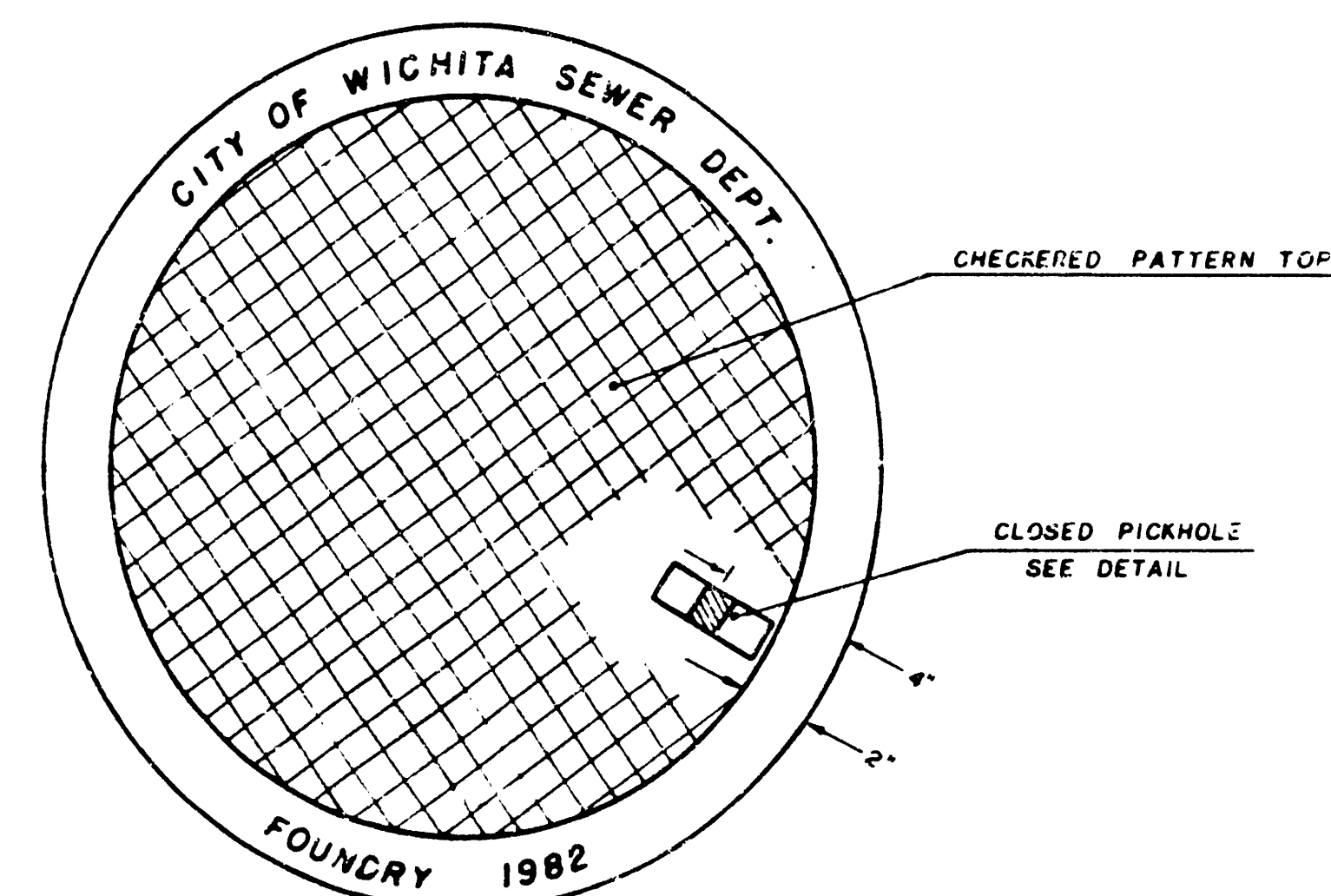
ADOPTED AS STANDARD DESIGN

BY

City of Wichita, Kansas

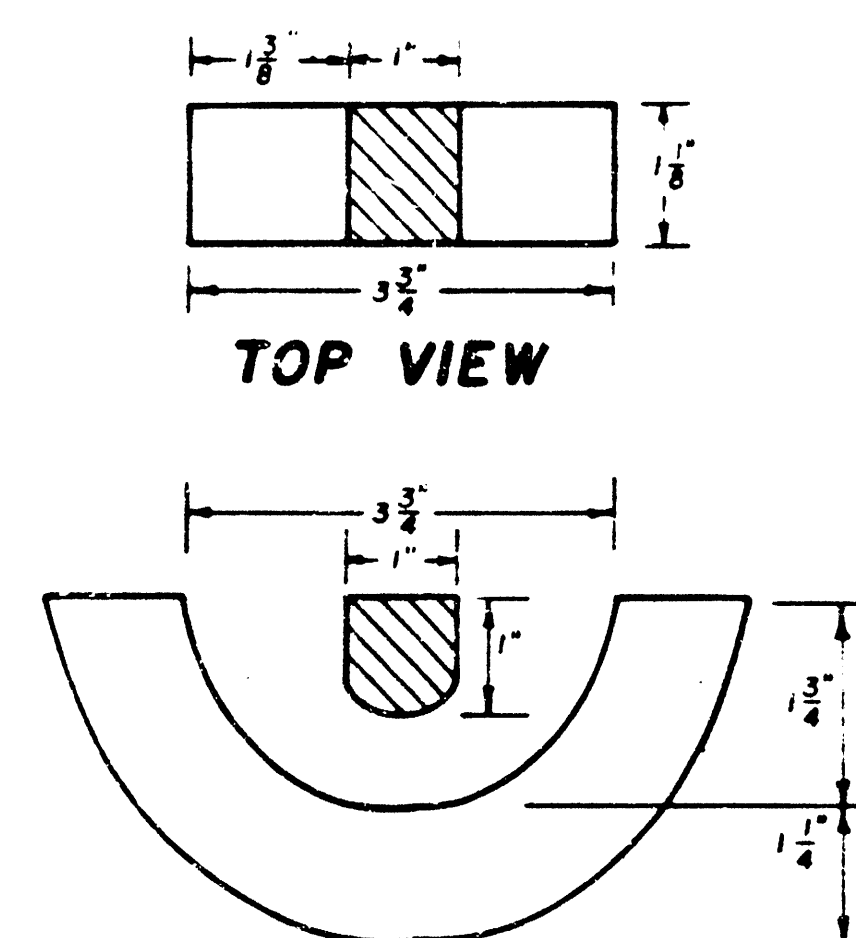
MANHOLE COVER

Weight: 180 Lbs.



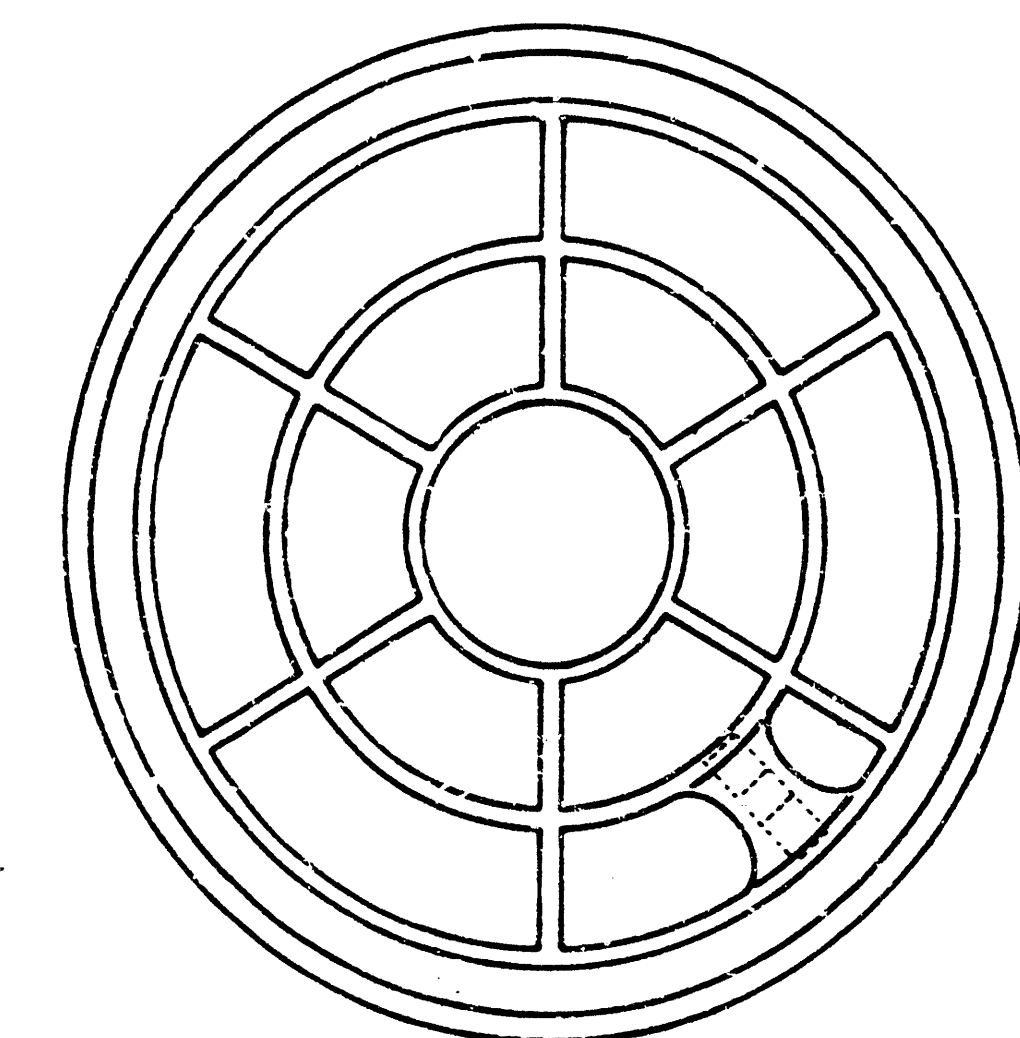
TOP VIEW

PICKHOLE DETAIL

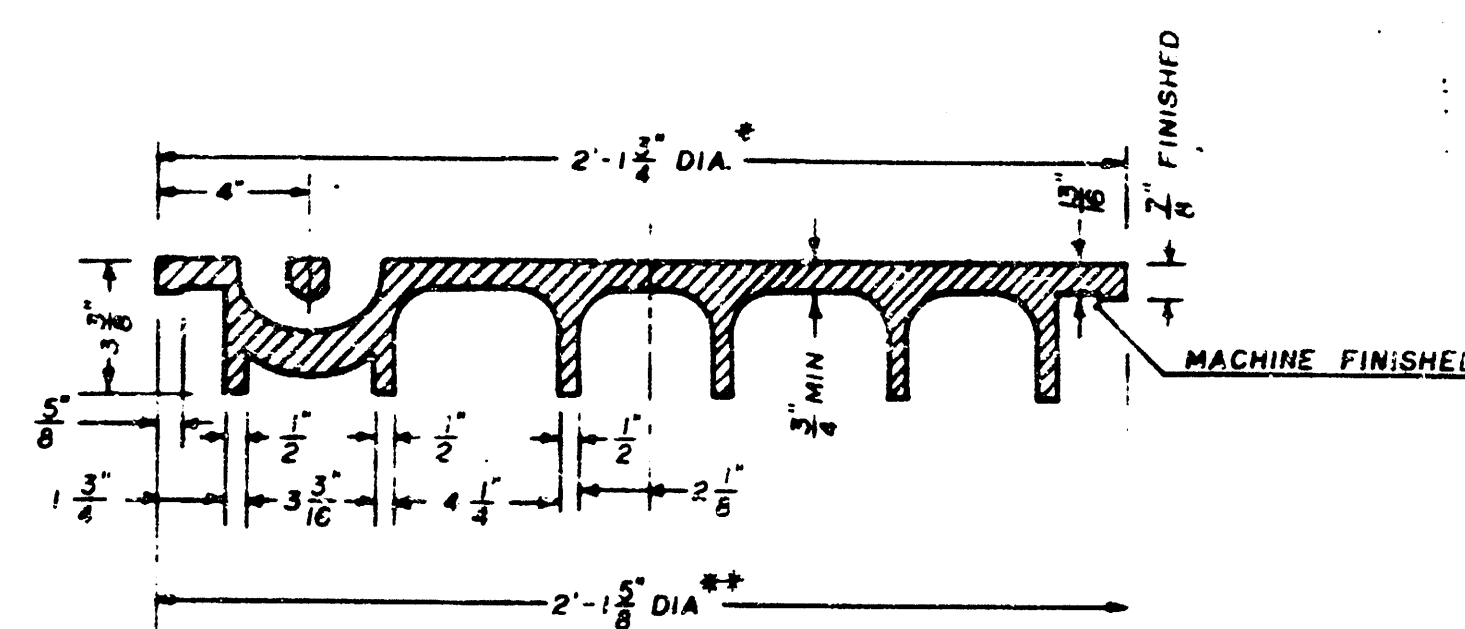


TOP VIEW

SECTION VIEW



BOTTOM VIEW

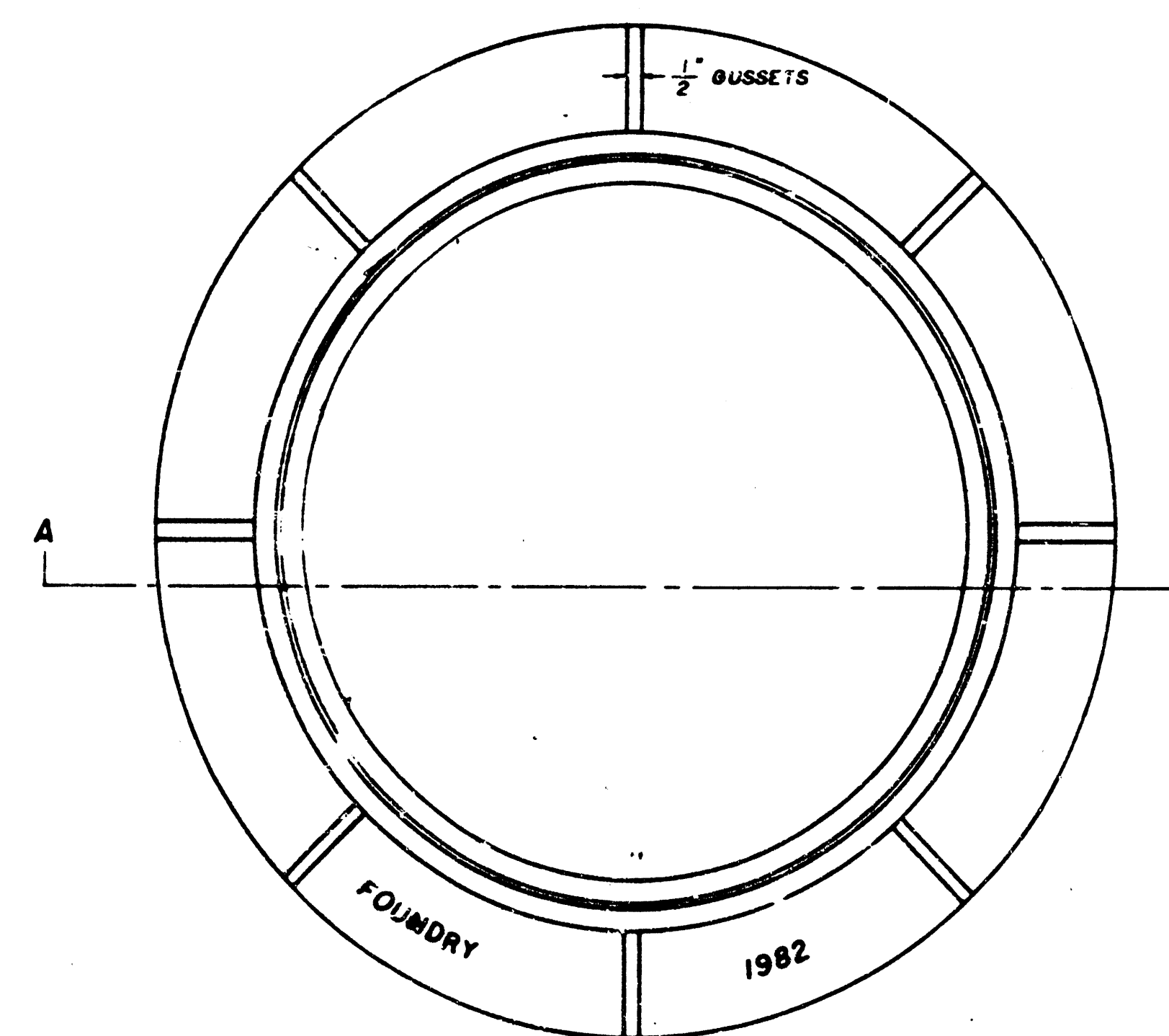


SECTION VIEW

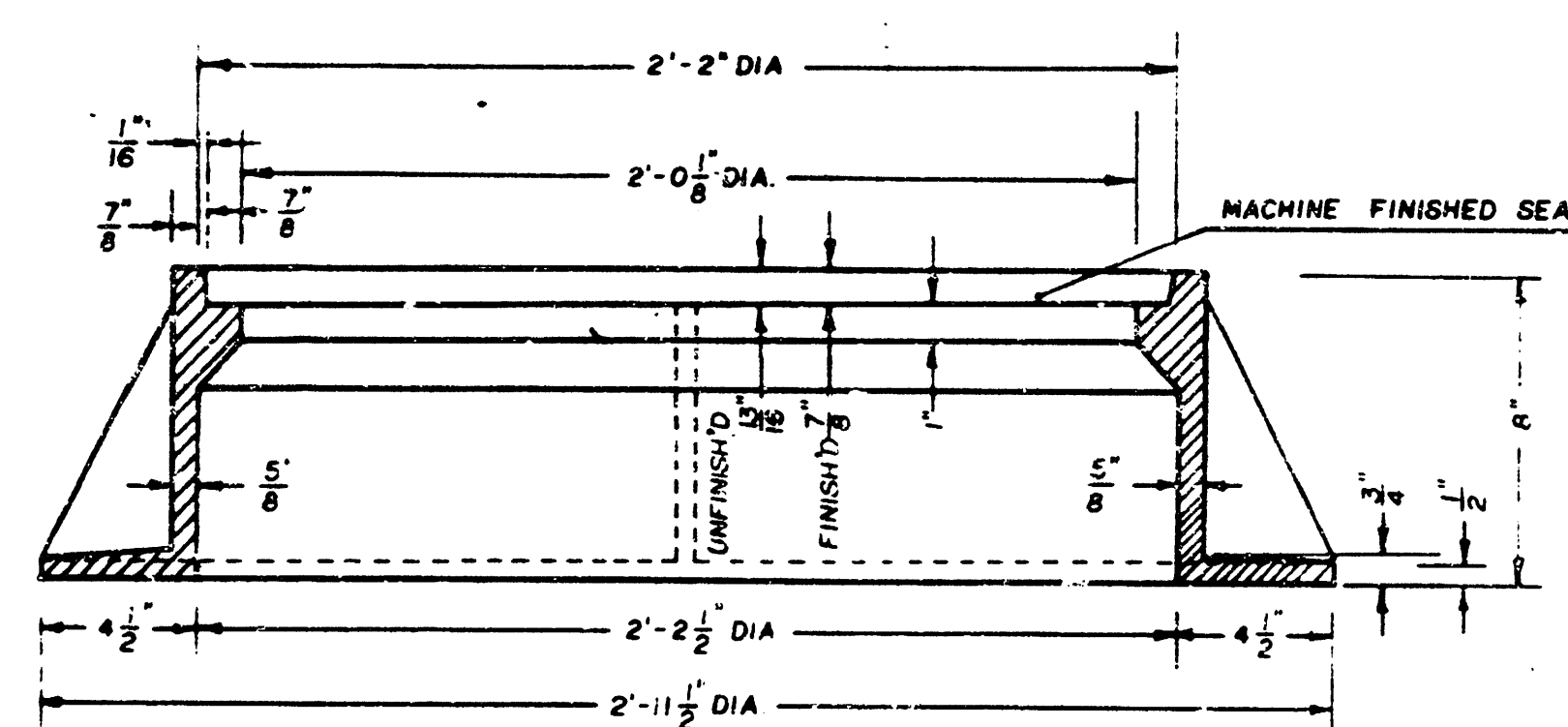
* OUTSIDE DIA. TOP OF COVER
** OUTSIDE DIA. BOTTOM OF COVER

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.