

# PRIVATE STORM WATER SEWER PLANS FOR LOT 1, BLOCK 3, MEDITERRANEAN PLAZA

JULY 1998

PROJECT NO. 818PPS

INDEX CODE 607861

CITY OF WICHITA, KANSAS

MICHAEL E. LINDEBAK, CITY ENGINEER


## GENERAL NOTES

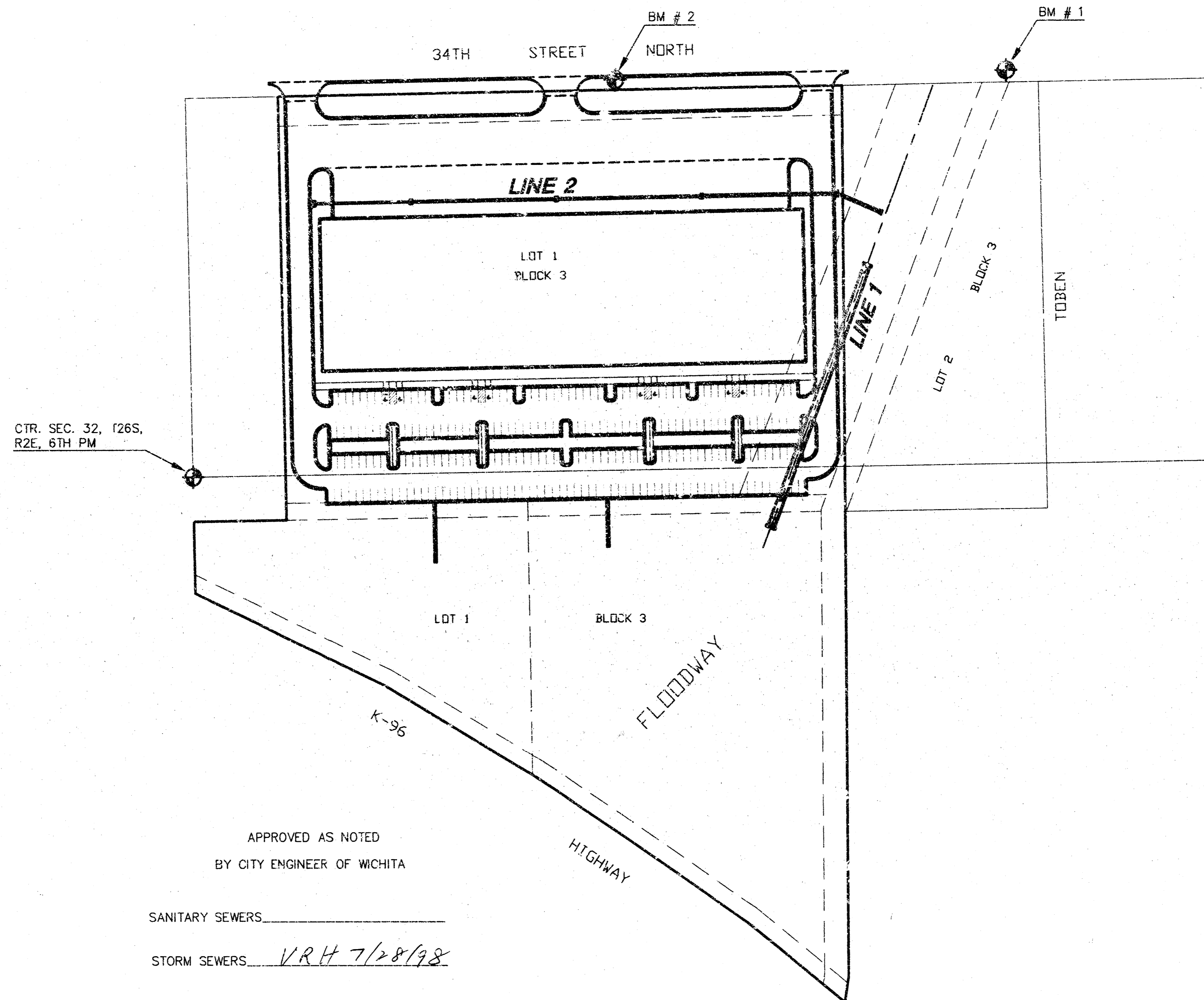
- UNLESS SHOWN OR STATED OTHERWISE ON THESE DRAWINGS, MATERIALS AND CONSTRUCTION SHALL BE IN ACCORDANCE WITH CITY OF WICHITA CONCRETE PAVEMENT AND ASPHALTIC CONCRETE PAVEMENT SPECIFICATIONS.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR PRESERVING PROPERTY IRONS. THE CONTRACTOR WILL BE REQUIRED TO RE-ESTABLISH ANY PROPERTY IRONS WHICH ARE DAMAGED OR DESTROYED BY HIS CONSTRUCTION OPERATIONS. SUCH IRONS SHALL BE RE-ESTABLISHED BY A LICENSED LAND SURVEYOR IN ACCORDANCE WITH STATE LAWS.
- EXISTING UTILITIES AND THEIR LOCATIONS, 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 PLAN LOCATIONS SHOWN ARE NOT GUARANTEED. ADDITIONAL EXISTING UTILITIES MAY ALSO BE ENCOUNTERED.
- CONTRACTOR WILL BE REQUIRED TO PROVIDE A MINIMUM ADVANCE NOTICE OF FORTY-EIGHT (48) HOURS TO UTILITY COMPANIES PRIOR TO STARTING ANY EXCAVATION AS FOLLOWS:

KANSAS ONE-CALL 1-800-344-7233  
OR 687-2470 (LOCAL WICHITA)

THE CONTRACTOR MUST NOTIFY THE FOLLOWING IN CASE OF AN EMERGENCY:

SOUTHWESTERN BELL TELEPHONE COMPANY 1-800-734-7596  
CABLEVISION 262-0661  
K&E (GAS) 832-0012  
K&E (ELECTRIC) 264-1141  
CITY OF WICHITA WATER & SEWER DEPT. 268-4908

- 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. ALL DISPOSAL SITES MUST BE APPROVED BY THE KANSAS DEPARTMENT OF HEALTH AND ENVIRONMENT. MATERIAL EITHER STOCKPILED OR DISPOSED OF IN A FLOOD PLAIN WOULD REQUIRE A KANSAS STATE BOARD OF AGRICULTURE PERMIT. ANY MATERIAL DUMPED IN WATERS OF THE UNITED STATES OR WETLANDS IS SUBJECT TO U.S. CORPS OF ENGINEERS PERMITTING REGULATIONS. ANY MATERIAL BURIED OR STOCKPILED BEYOND APPROVED CONSTRUCTION LIMITS WOULD REQUIRE ADDITIONAL ARCHAEOLOGICAL INVESTIGATIONS UNLESS BURIED IN A PREVIOUSLY APPROVED BORROW LOCATION.
- TREES TO BE REMOVED ARE MARKED  ALL TREES WHICH IN THE OPINION OF THE FIELD ENGINEER CAN BE SAVED, SHALL BE SAVED. REMOVAL OF TREES SHALL BE CONSIDERED AS SUBSIDIARY TO SITE PREPARATION & RESTORATION.
- ALL TOPSOIL SHALL BE STRIPPED IN AREAS OF CUT/FILL AND STOCKPILED.
- A LAYER OF TOPSOIL IS TO BE PLACED OVER ALL AREAS WHERE THE VIRGIN GRADE NO LONGER EXISTS, WITH THE EXCEPTION OF PAVED AREAS; THIS INCLUDES BERMS, SWALES AND SLOPES. NOTE: THE FINISHED GRADE INDICATES THE SURFACE ELEVATION AFTER THE PLACEMENT OF TOPSOIL.
- ALL DISTURBED AREAS TO BE SEEDED WITH RYE GRASS AT A RATE OF 250 LBS./ ACRE WITHIN 10 DAYS OF CONSTRUCTION. COST SHALL BE CONSIDERED AS SUBSIDIARY TO SITE PREPARATION & RESTORATION.
- CONTRACTOR SHALL COORDINATE THE WASTING OF EXCESS MATERIAL ON SITE, WITH THE OWNER (JOHNNY STEVENS, 316-636-2100) OR HIS REPRESENTATIVE (MKEC 684-9600).

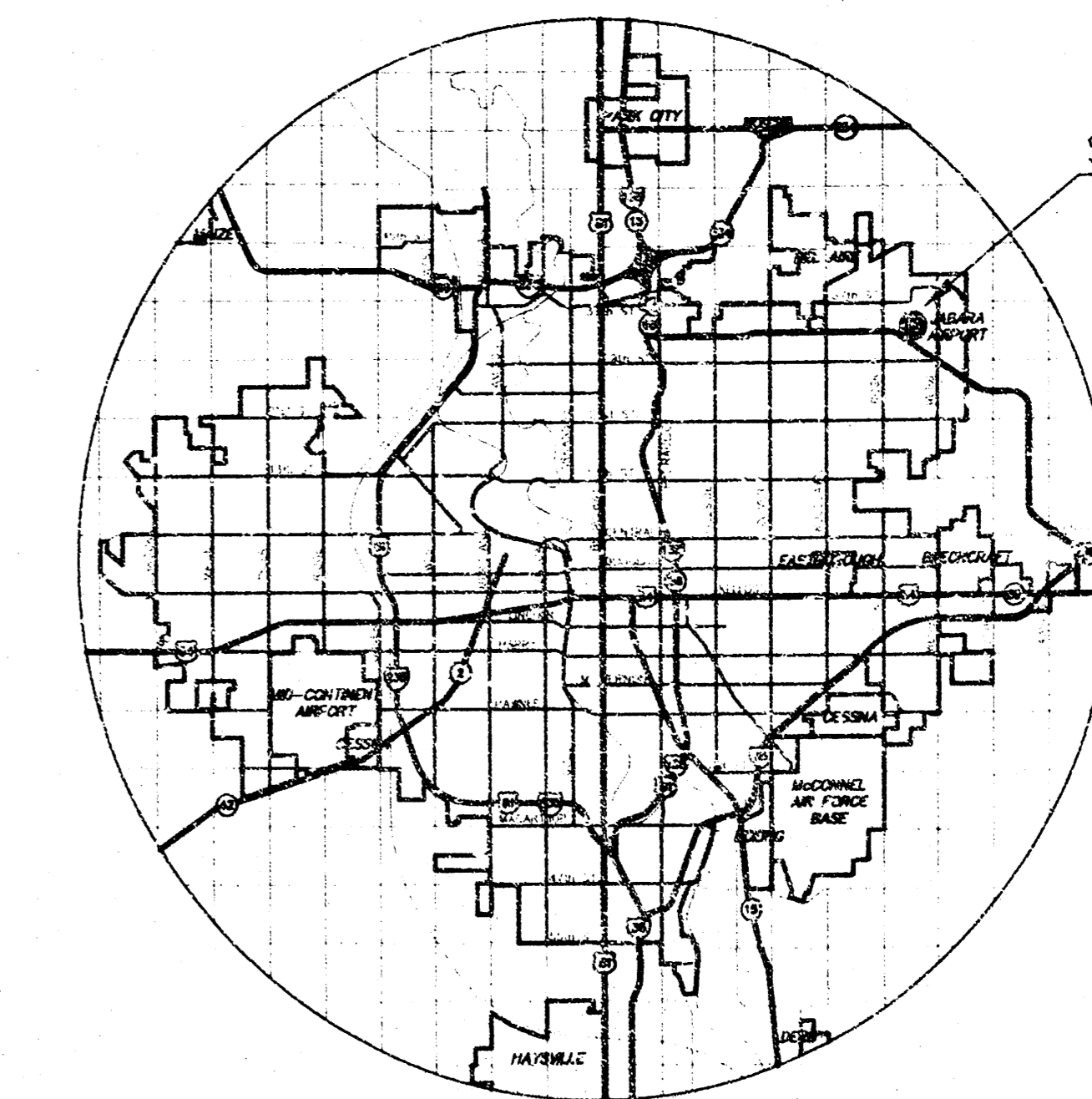


APPROVED AS NOTED  
BY CITY ENGINEER OF WICHITA

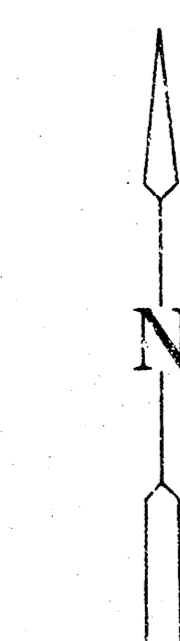
SANITARY SEWERS \_\_\_\_\_  
STORM SEWERS VRH 7/28/98  
DRIVEWAY APPROACHED \_\_\_\_\_  
WATER MAINS \_\_\_\_\_  
PAVING \_\_\_\_\_

### NOTE TO CONTRACTOR

INSPECTION AND TESTING FOR THIS PROJECT IS TO BE PROVIDED BY A LICENSED CONSULTING ENGINEERING FIRM UNDER CONTRACT WITH THE OWNER/DEVELOPER. SAID INSPECTION TO BE IN ACCORDANCE WITH THE CITY OF WICHITA STANDARD CONSTRUCTION ENGINEERING PRACTICES AND CERTIFIED BY A LICENSED PROFESSIONAL ENGINEER. NO WORK SHALL BE PERFORMED IN DEDICATED EASEMENTS OR THE PUBLIC RIGHT-OF-WAY BY THE CONTRACTOR WITHOUT SUCH INSPECTION NOR SHALL ANY WORK BE COMMENCED IN DEDICATED EASEMENTS OR PUBLIC RIGHT-OF-WAY WITHOUT WRITTEN AUTHORIZATION BY THE CITY ENGINEER.



LOCATION MAP



SCALE: 1" = 100'

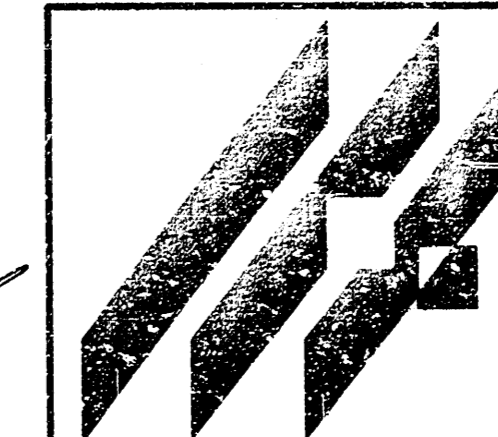
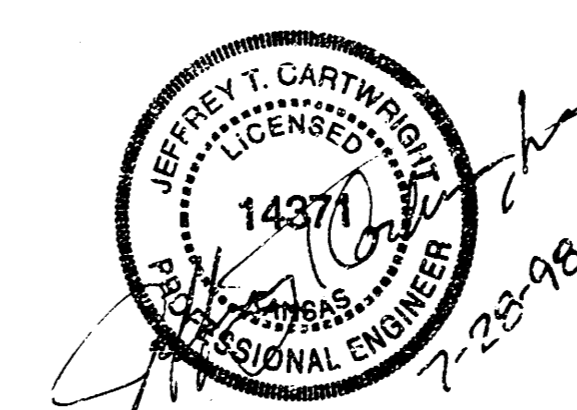
## INDEX TO DRAWINGS

SHEET NO.	DESCRIPTION
1	TITLE SHEET
2	GRADING PLAN
3-5	STORM SEWER PLANS & PROFILES
6	EROSION CONTROL DETAILS
7-9	STORM WATER SEWER DETAILS
10	FINAL PLAN

## BENCHMARKS

- BM #1 "□" CUT ON SW. COR. OF CENTER CURB INLET ON S. SIDE OF 34TH ST, 208' E. OF NE. COR. LOT 1, BLOCK 3. ELEV. = 229.36
- BM #2 "□" CUT ON SE. COR. OF E. CURB INLET ON S. SIDE OF 34TH ST, 283' W. OF NE. COR. LOT 1, BLOCK 3. ELEV. = 232.685

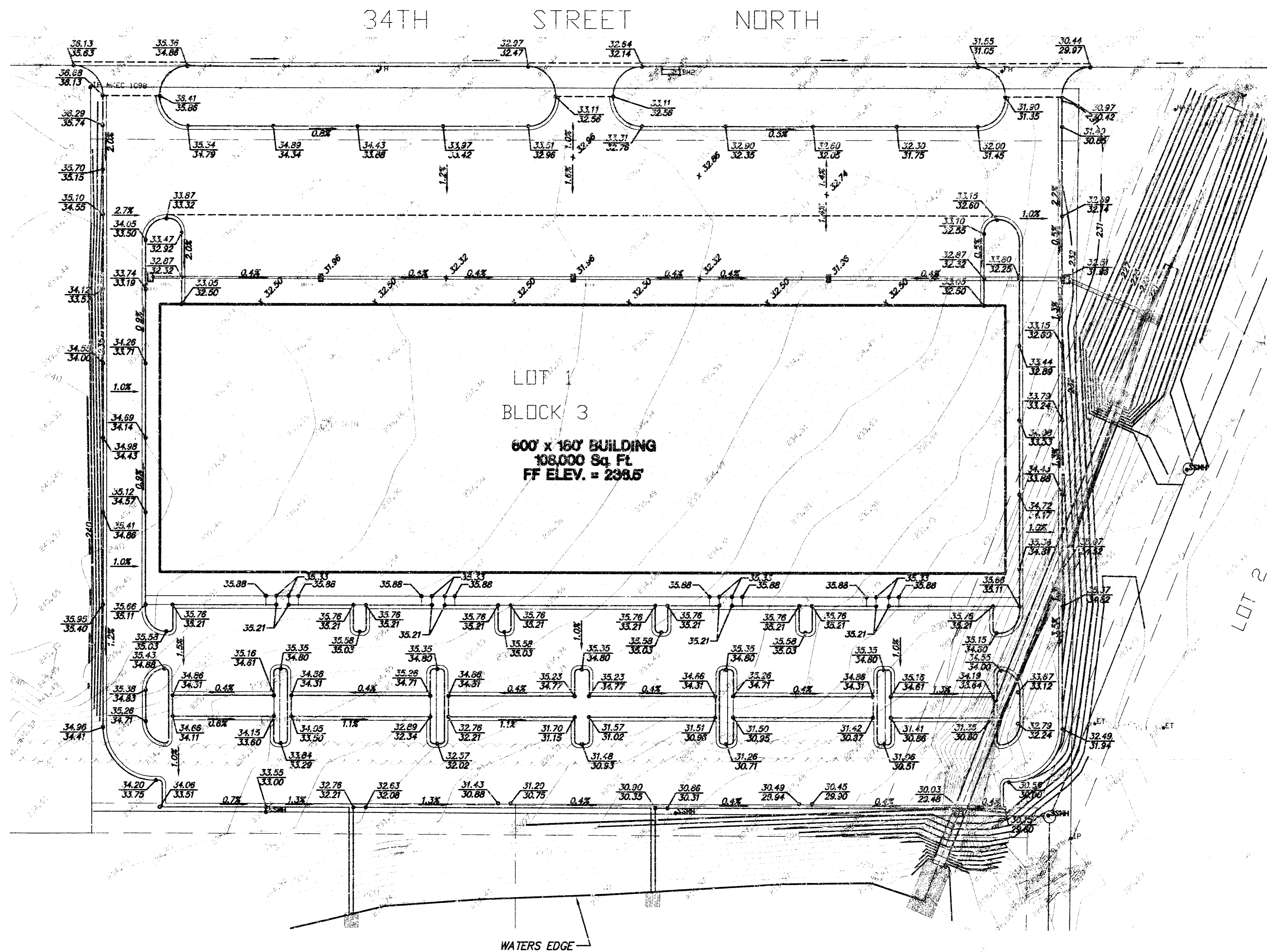
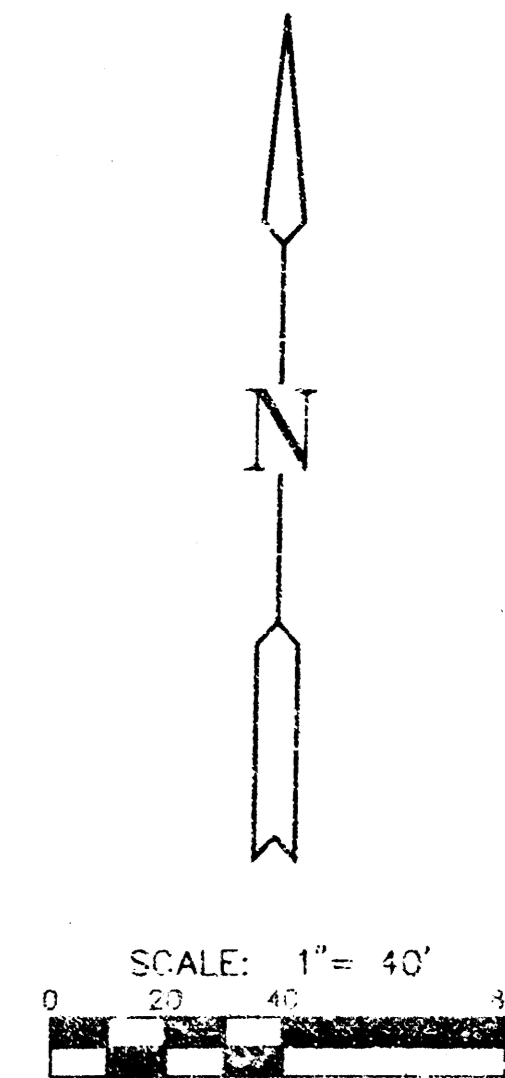
AS-BUILT = 20 DEC 2002



MID-KANSAS ENGINEERING  
CONSULTANTS, INC.  
411 N. WEBB ROAD  
WICHITA, KS. 67206  
316-684-9600

**LOT 1, BLK. 3, MEDITERRANEAN PLAZA**  
PROJECT NAME  
**PAVING & STORM WATER**  
**SEWER TITLE SHEET**  
SHEET TITLE

JG DESIGN BY. GJR DRAWN BY. JG/KHB CHECKED BY.  
JULY 1998 DATE. 98065\_DT JOB NO. 1 / 10 SHEET/OF



LOT 1  
BLOCK 3  
600' x 160' BUILDING  
108,000 Sq. Ft.  
FF ELEV. = 238.5'

WATERS EDGE



MID-KANSAS ENGINEERING  
CONSULTANTS, INC.  
411 N. WEBB ROAD  
WICHITA, KS. 67206  
316-684-9600

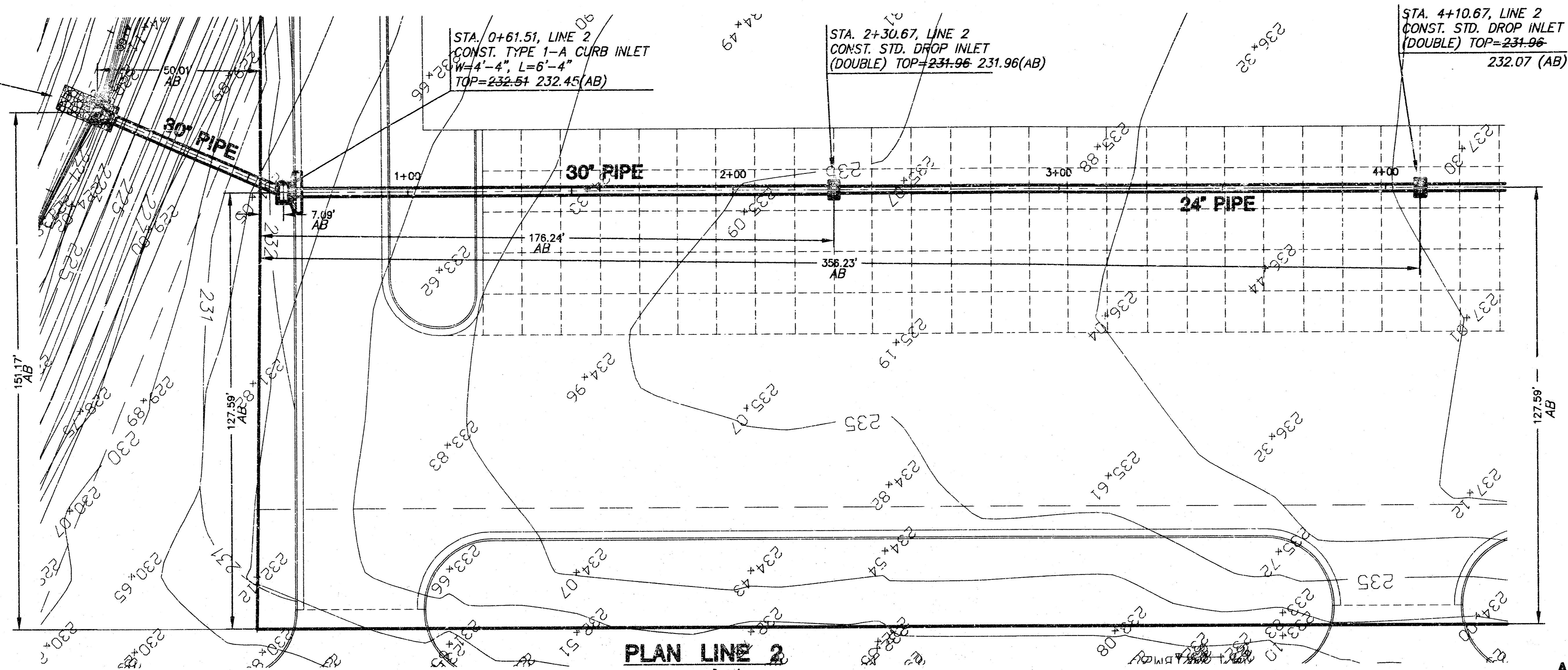
<b>LOT 1, BLK. 3, MEDITERRANEAN PLAZA</b>		
PROJECT NAME		
<b>GRADING PLAN</b>		
SHEET TITLE		
JAG	GJR	JAG/KHB
DESIGN BY:	DRAWN BY:	CHECKED BY:
JULY 1998	98065GR1.DWG	2 / 10
DATE	JOB NO.	SHEET/OF

6: CIVIL (SHEET GRAD) (98065GR1.DWG) Wed Jul 22 12:03:21 1998



**MEDITERRANEAN PLAZA  
LOT 1, BLOCK 3  
STORM SEWER PLANS**

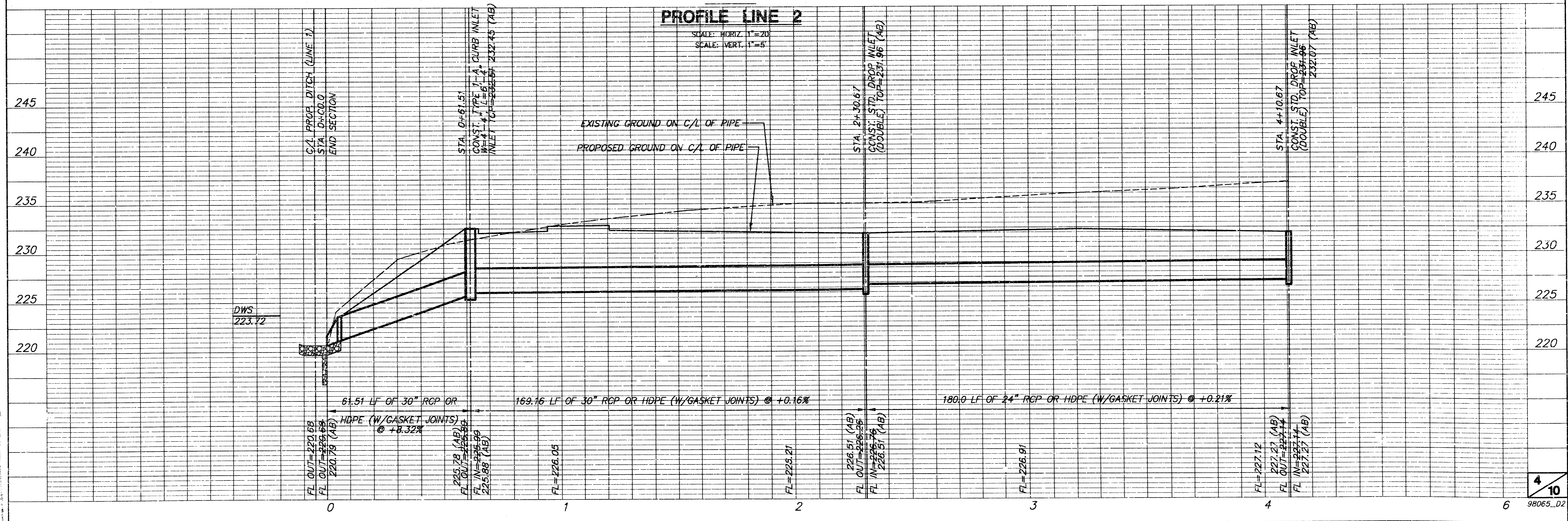
INSTALL 15.0 SQ. YDS. OF  
LIGHT STONE RIP-RAP  
(7.5x18") W/ TOEWALL  
(7.5x2x4")



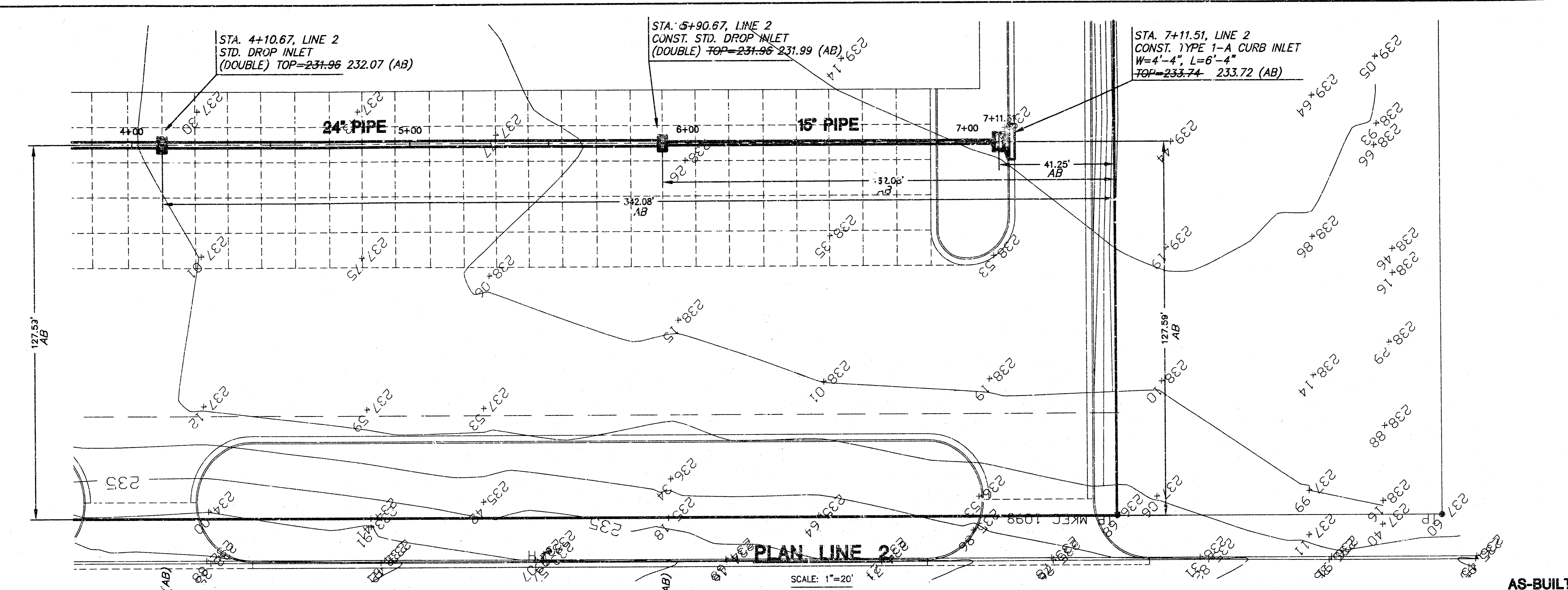
AS-BUILT 20 DECEMBER 2002

**PROFILE LINE 2**

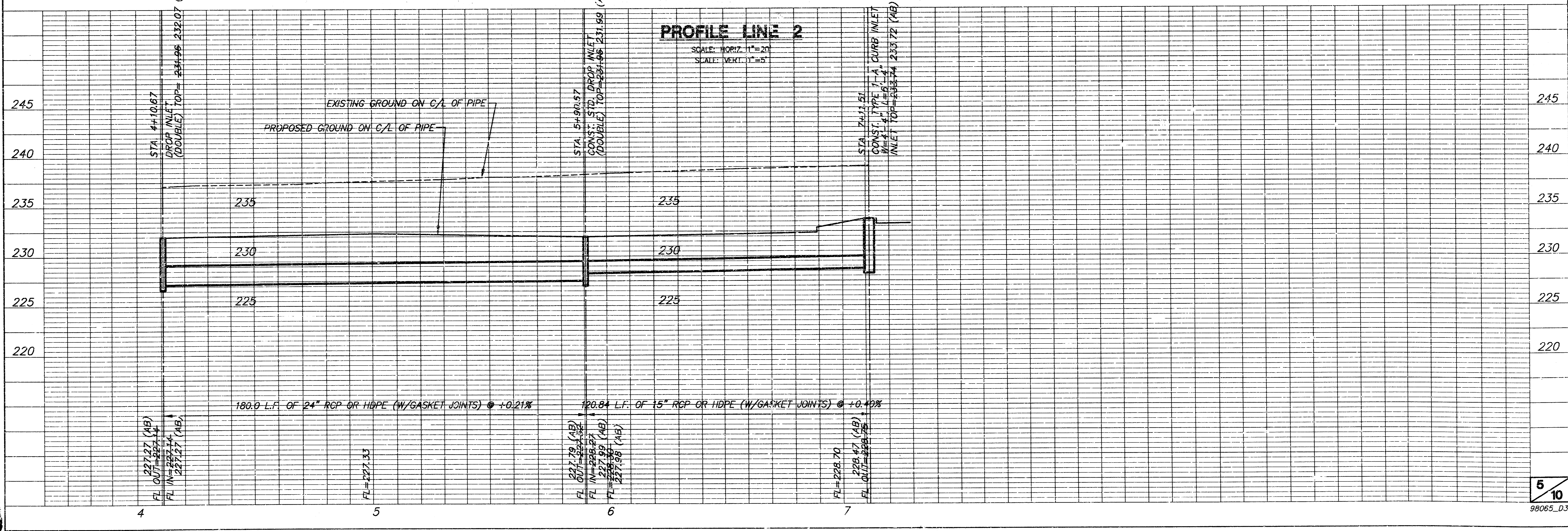
SCALE: HORIZ. 1"=20'  
SCALE: VERT. 1"=5'



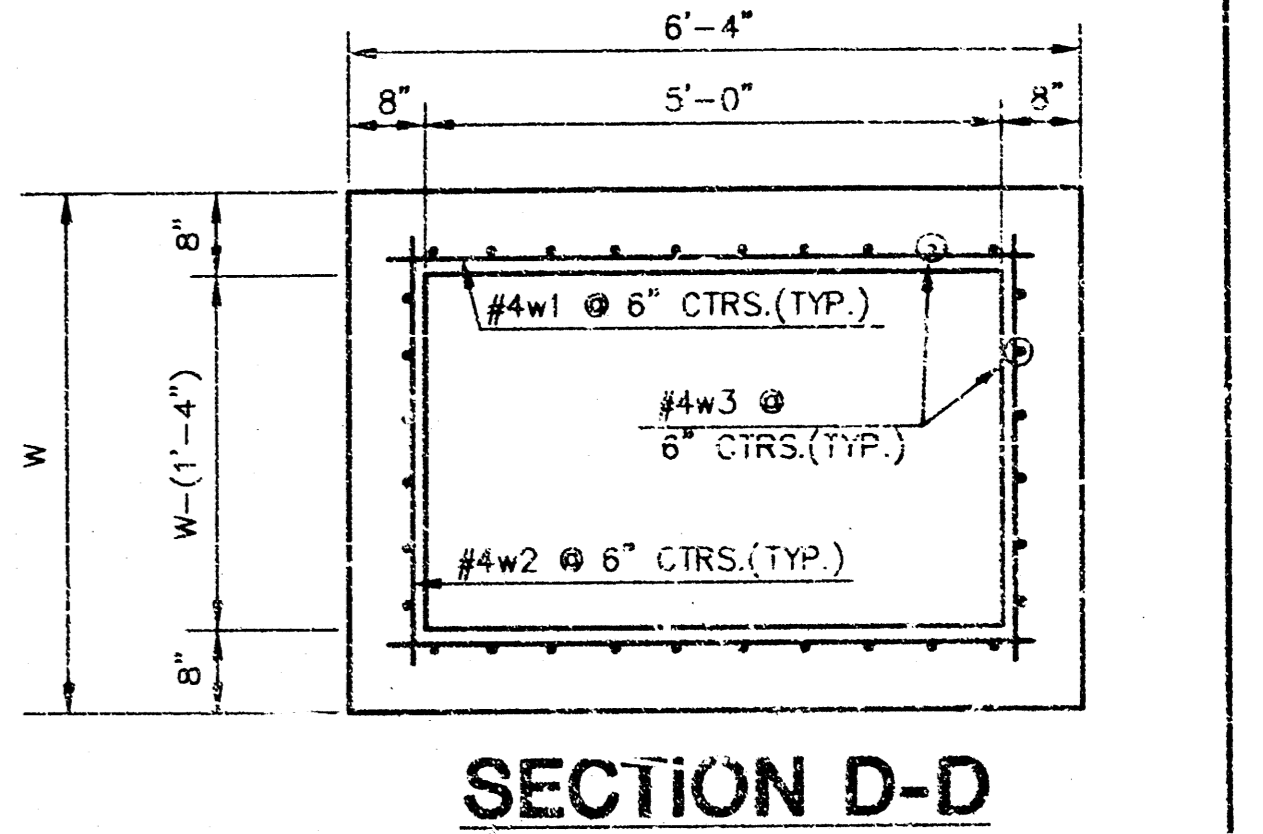
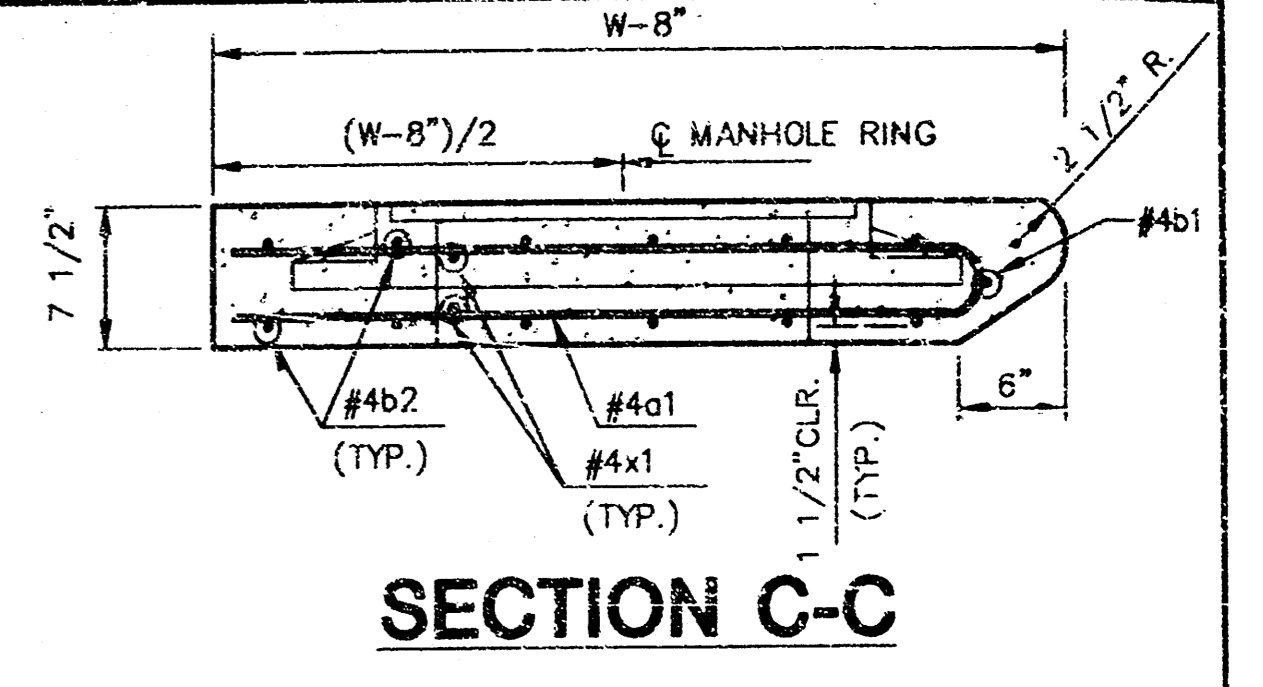
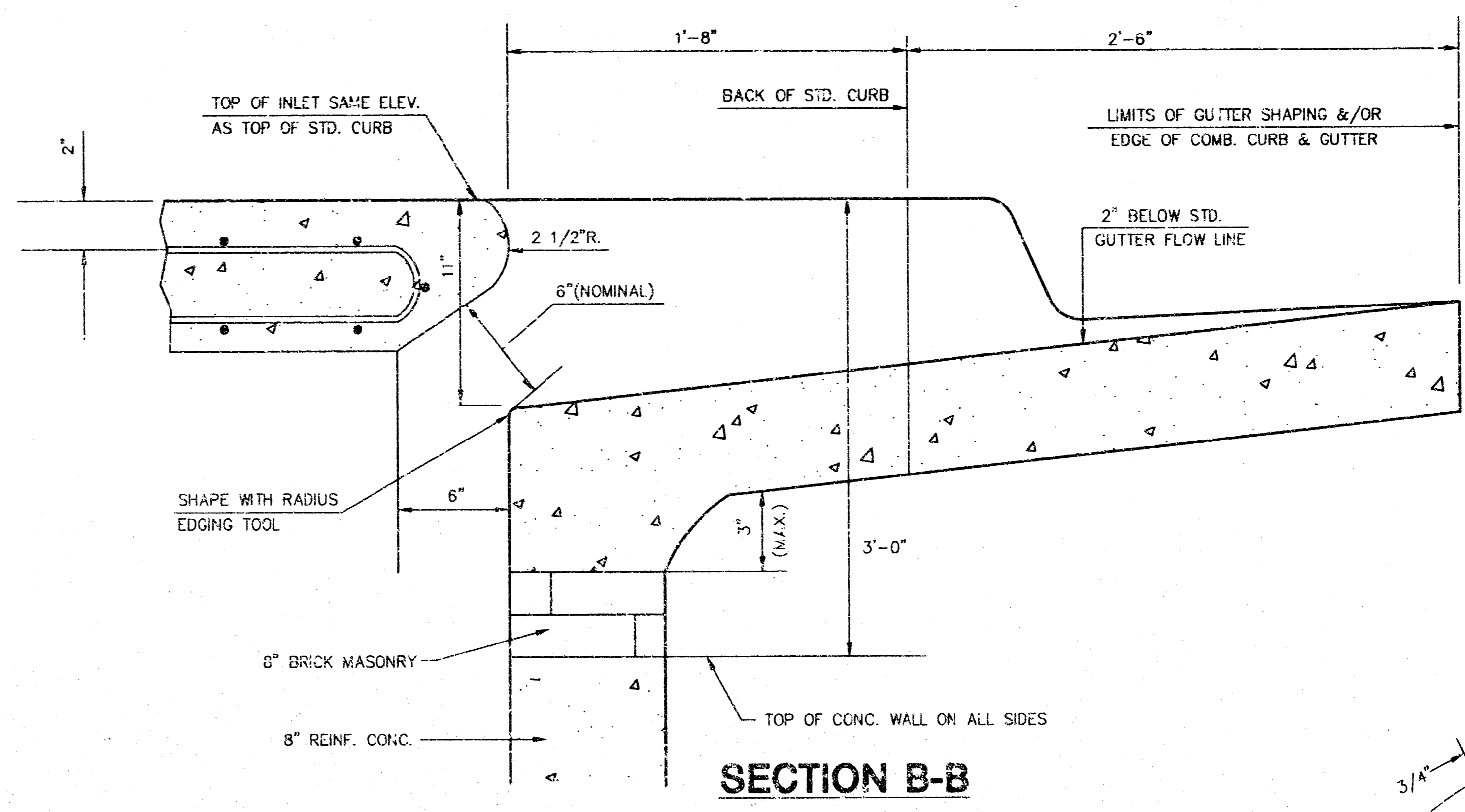
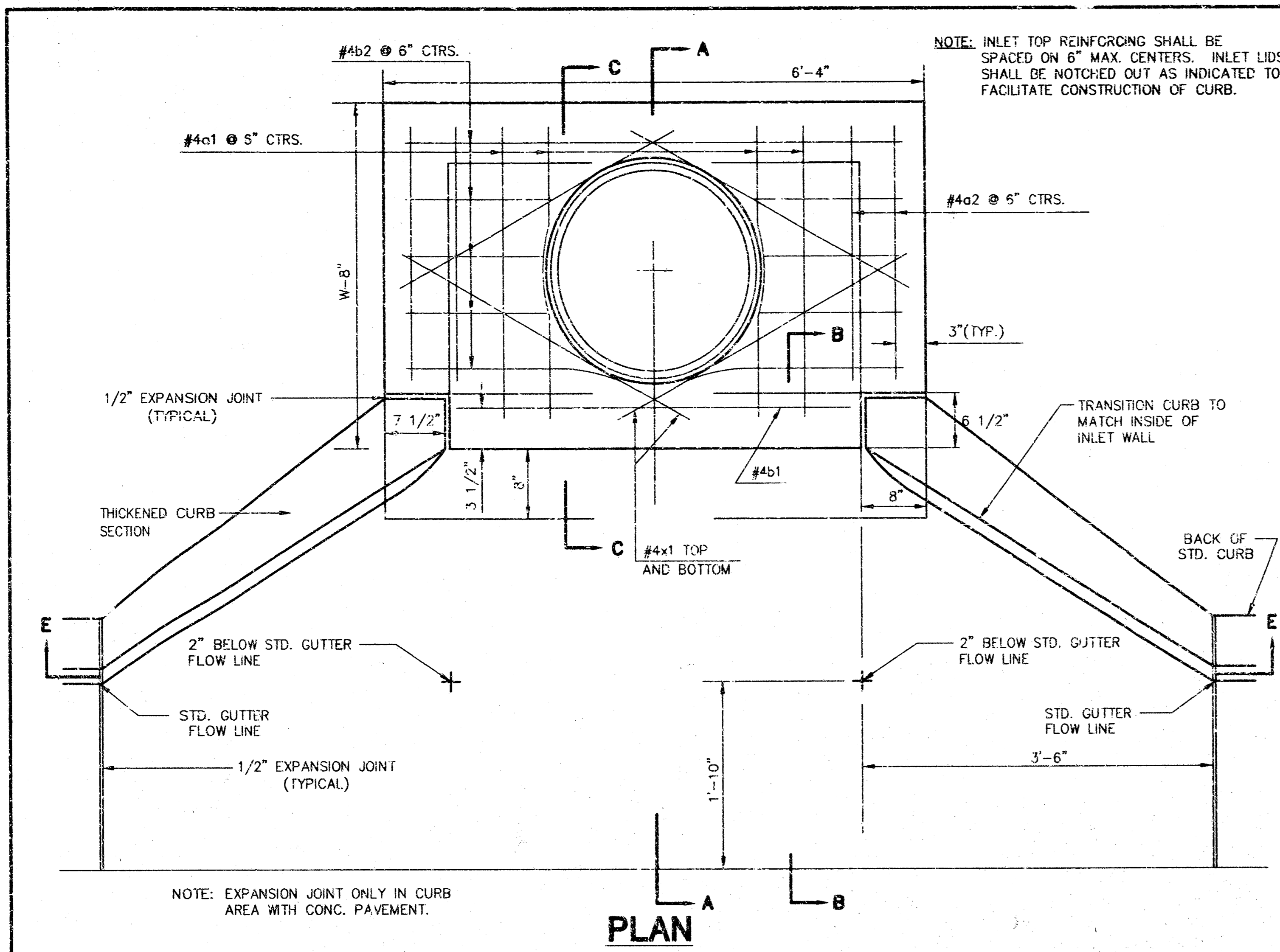
MEDITERRANEAN PLAZA  
LOT 1, BLOCK 3  
STORM SEWER PLANS



AS-BUILT 20 DECEMBER 2002







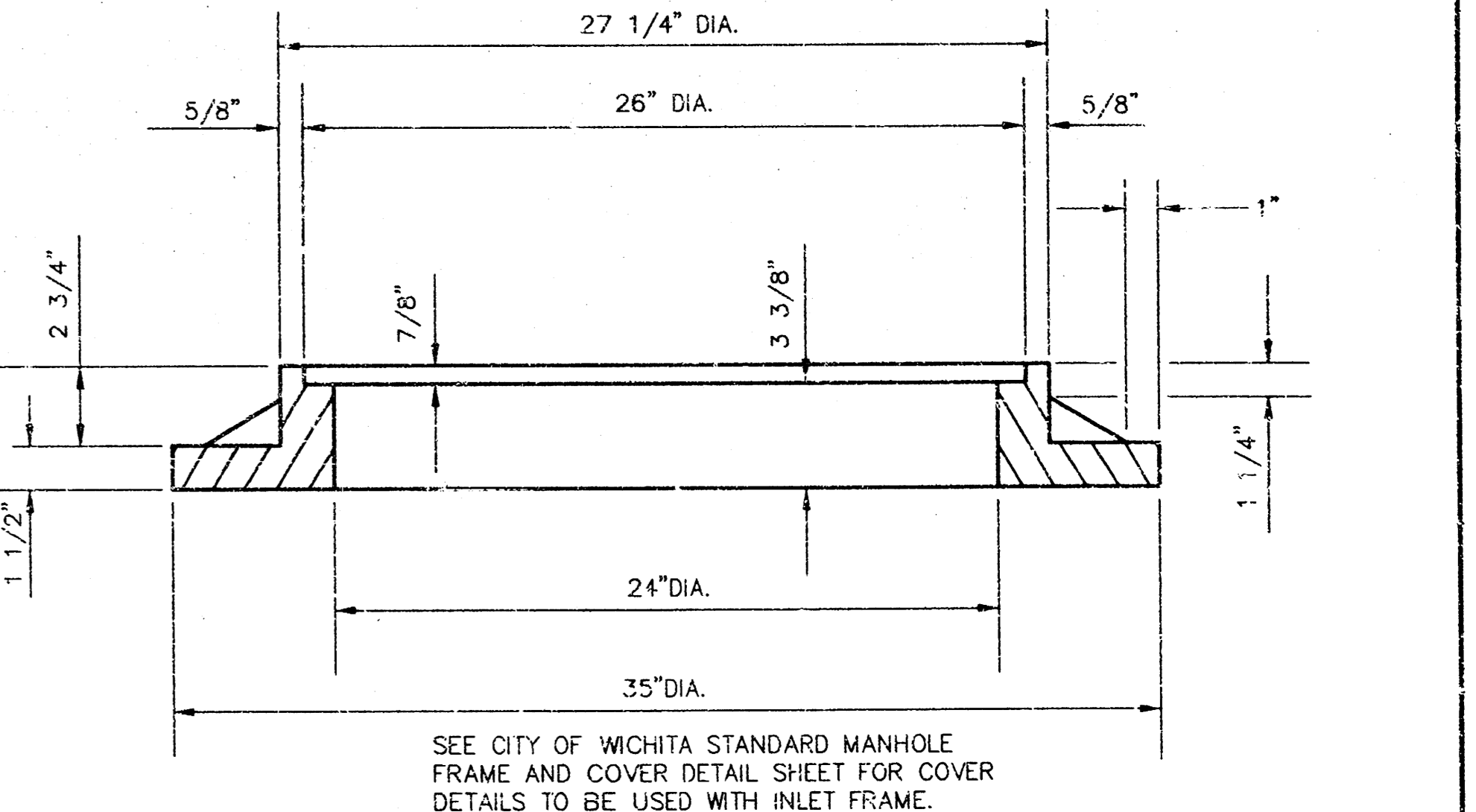
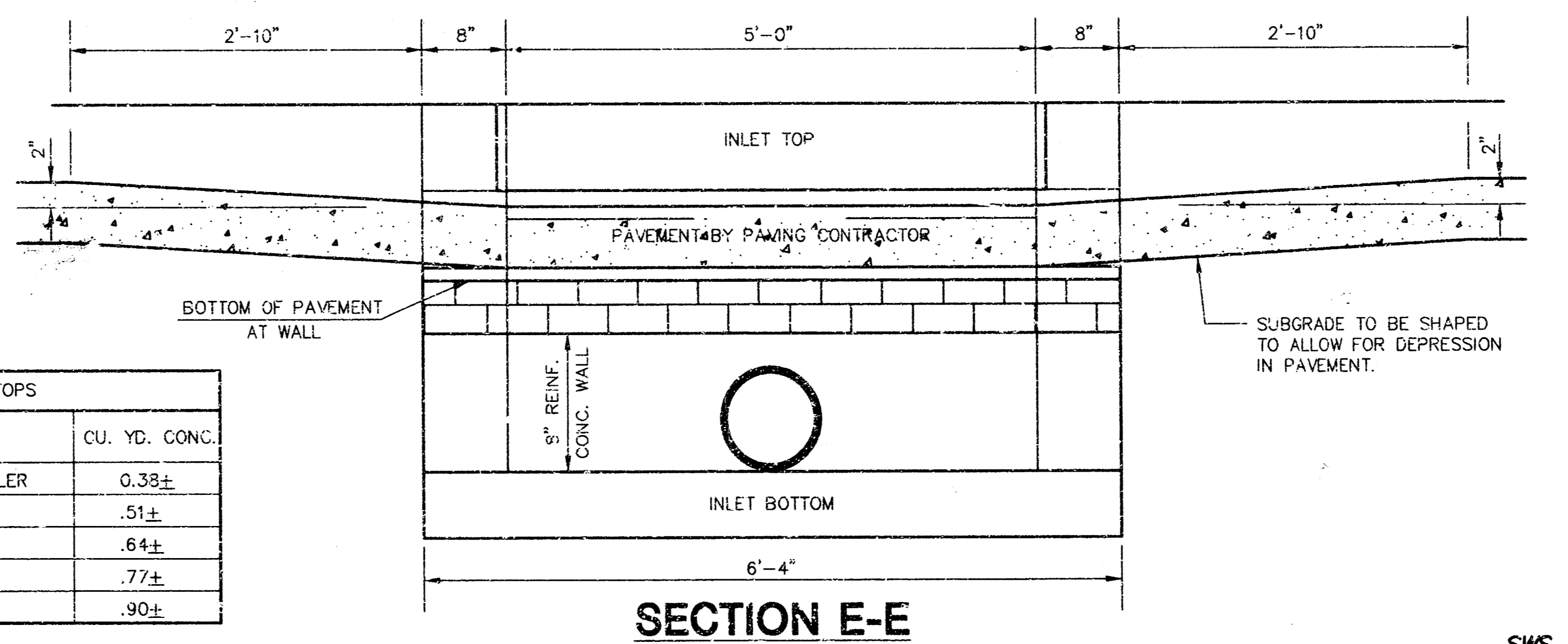
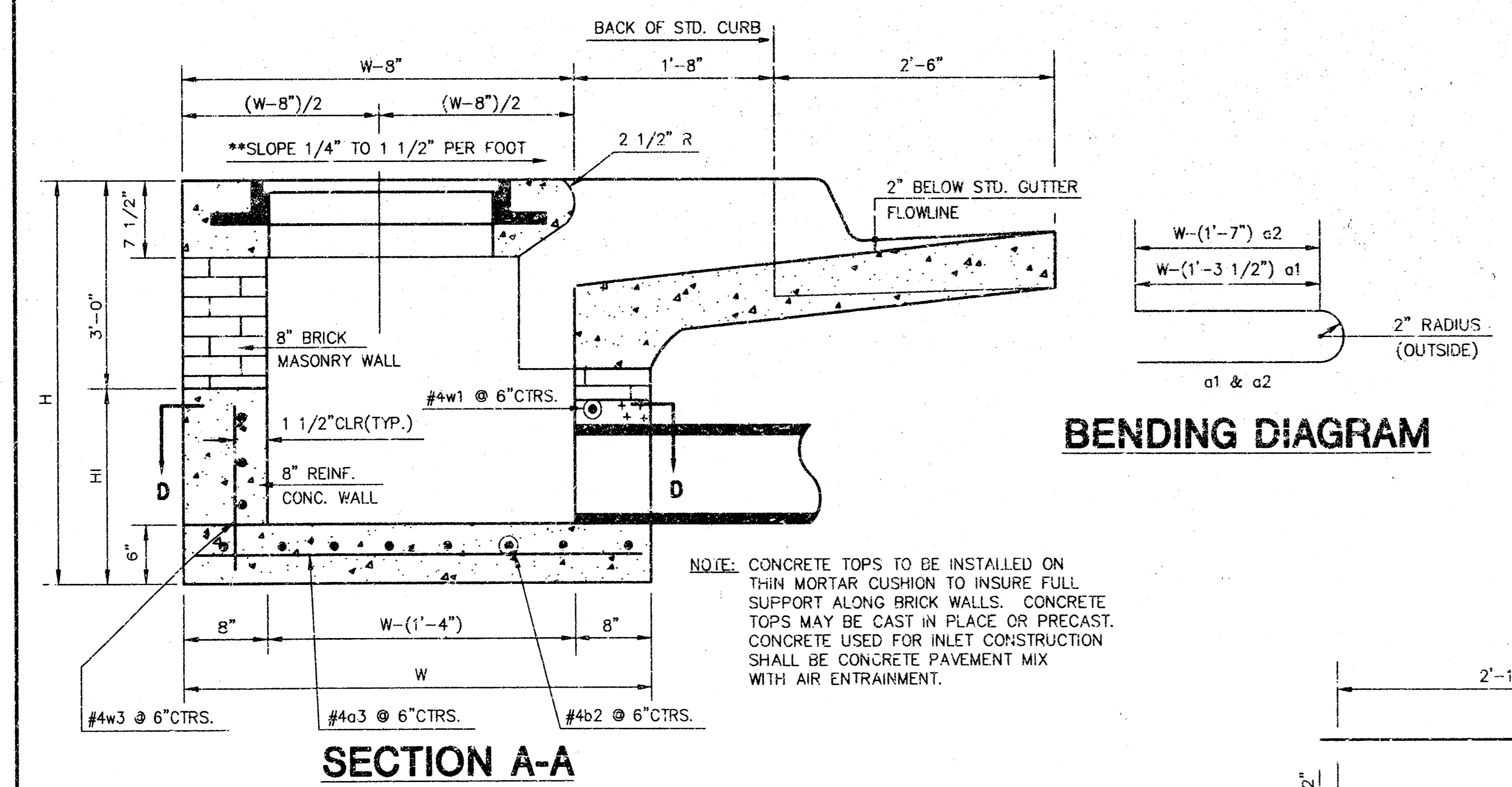
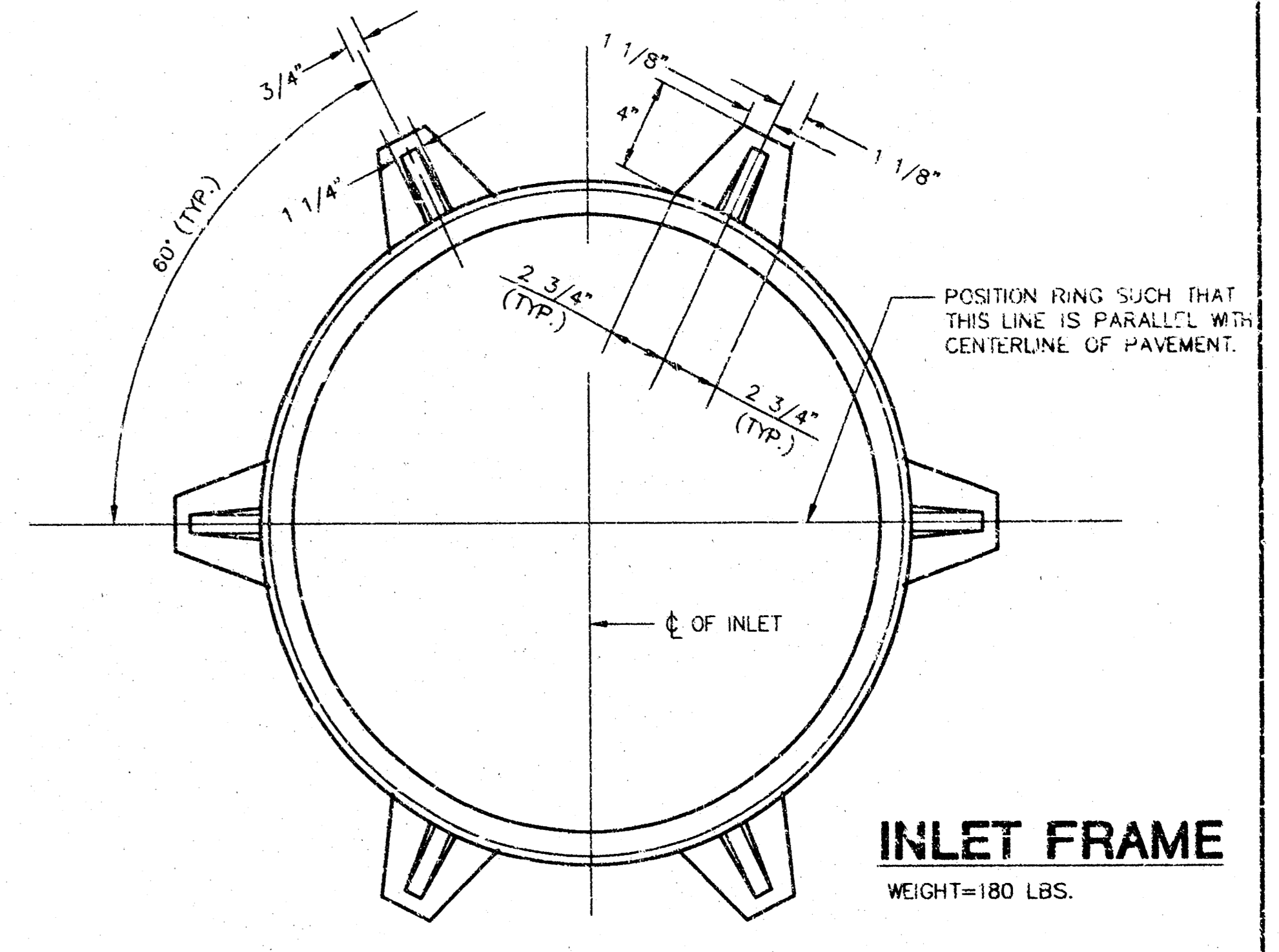
**PRECAST SLAB AND FLOOR REINFORCING**

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
a1	#4	6	6'-7"	6	8'-7"	5	10'-7"	6	12'-7"	6	14'-7"
a2	#4	4	6'-0"	4	8'-0"	4	10'-0"	4	12'-0"	4	14'-0"
a3	#4	13	4'-1"	13	5'-1"	13	6'-1"	13	7'-1"	13	8'-1"
b1	#4	1	4'-9"	1	4'-9"	1	4'-9"	1	4'-9"	1	4'-9"
a2	#4	23	6'-1"	29	6'-1"	35	6'-1"	41	6'-1"	47	6'-1"
x1	#4	8	3'-10"	8	4'-2"	8	4'-6"	8	4'-10"	8	5'-2"

**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
w1	#4	①	6'-1"	①	6'-1"	①	6'-1"	①	6'-1"	①	6'-1"
w2	#4	①	4'-1"	①	5'-1"	①	6'-1"	①	7'-1"	①	8'-1"
w3	#4	32	②	36	②	40	②	44	②	48	②

\* FIELD BEND OR CUT REINFORCING AS REQUIRED FOR CLEARANCE  
 ① (H-12"); (H-12") ROUND DOWN TO NEAREST 0.5"  
 ② H-3"



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.

\*\*NOTE: SLOPE OF INLET TOPS TO MATCH SIDEWALK OR PARKING SLOPES WITHIN LIMITS INDICATED.

**STANDARD CURB INLET PRECAST TOPS**

W	PRE-CAST TOP SIZE	PIPE SIZE	CU. YD. CONC.
4'-4"	3'-8"x6'-4"x7 1/2"	21" & SMALLER	.039±
5'-4"	4'-8"x6'-4"x7 1/2"	24" & 30"	.51±
6'-4"	5'-8"x6'-4"x7 1/2"	36" & 42"	.64±
7'-4"	6'-8"x6'-4"x7 1/2"	48" & 54"	.77±
8'-4"	7'-8"x6'-4"x7 1/2"	60" & 66"	.90±

**LOT 1, BLK 3, MEDITERRANEAN PLAZA**  
PROJECT NAME

**STORM WATER SEWER DETAILS**  
SHEET TITLE

MID-KANSAS ENGINEERING CONSULTANTS, INC.  
411 N. WEBB ROAD  
WICHITA, KS. 67206  
316-684-9600

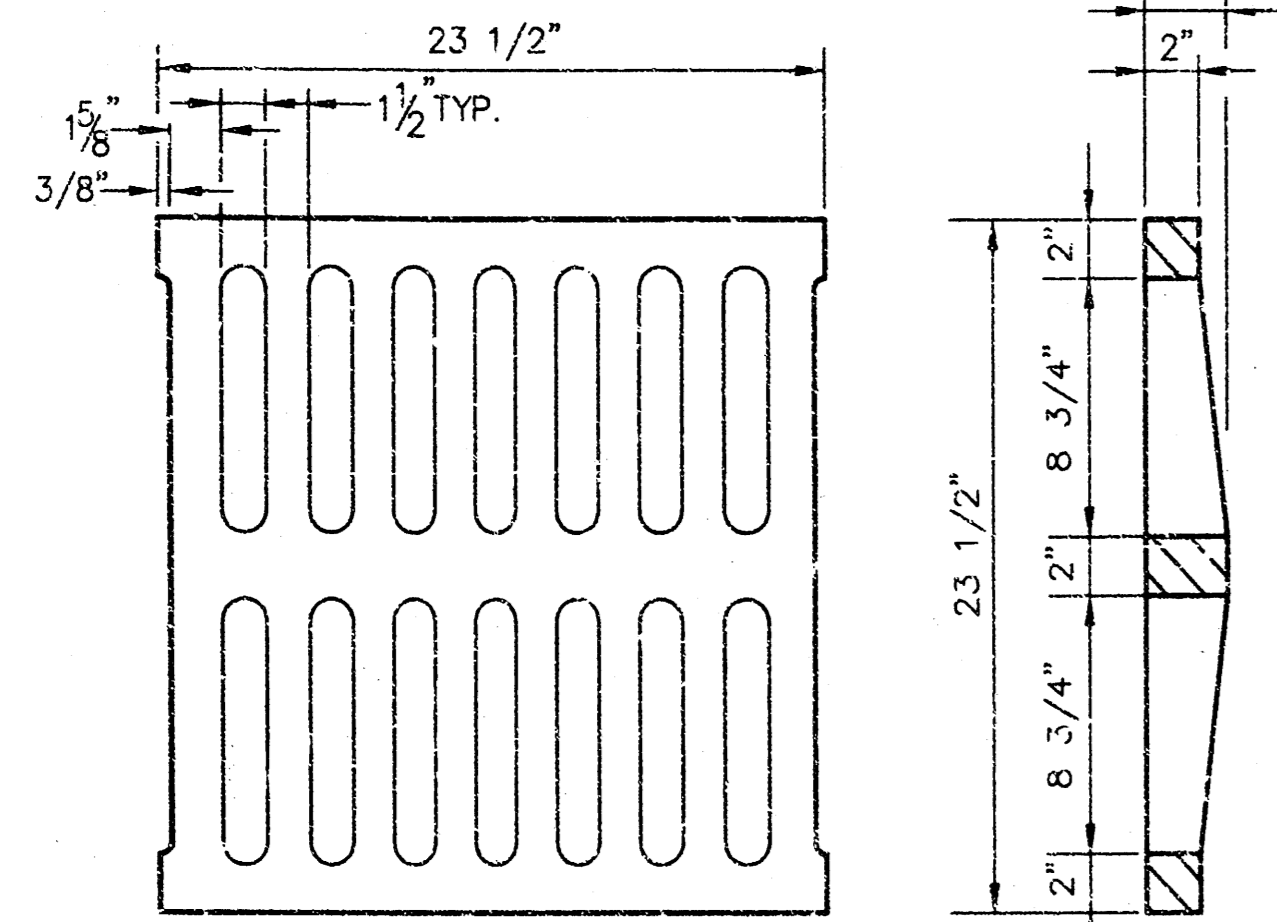
DESIGN BY: JG/R  
DRAWN BY: JG/R  
DATE: JUNE 1998

CHECKED BY: JG/KHB  
JOB NO.: 98065  
SHEET/OF: 7 / 10

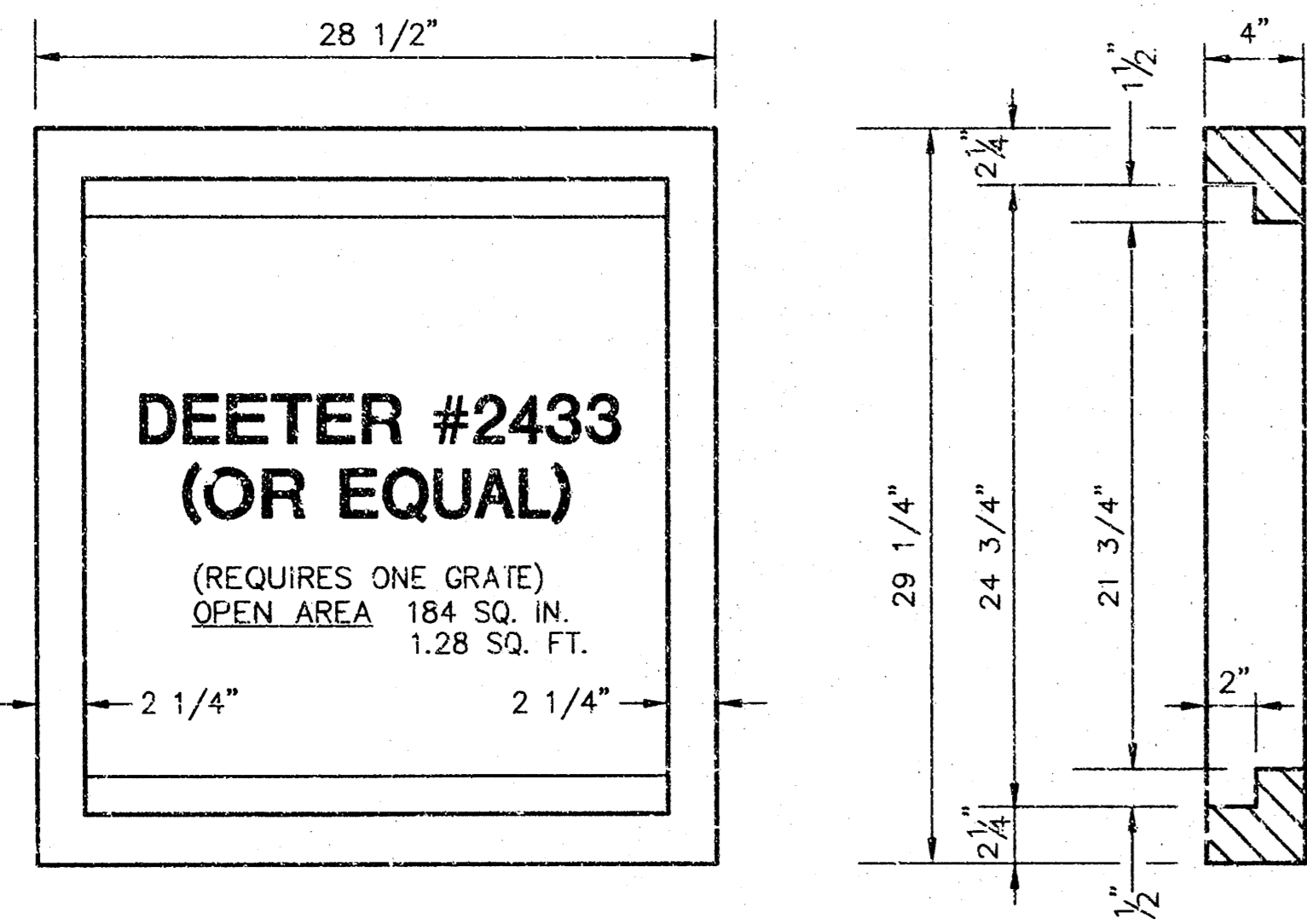
SWS\_DTL1.DWG

6: CIVIL/SUBS/SWS/DTL1.DWG REV. 04.22.10.40:37.1998

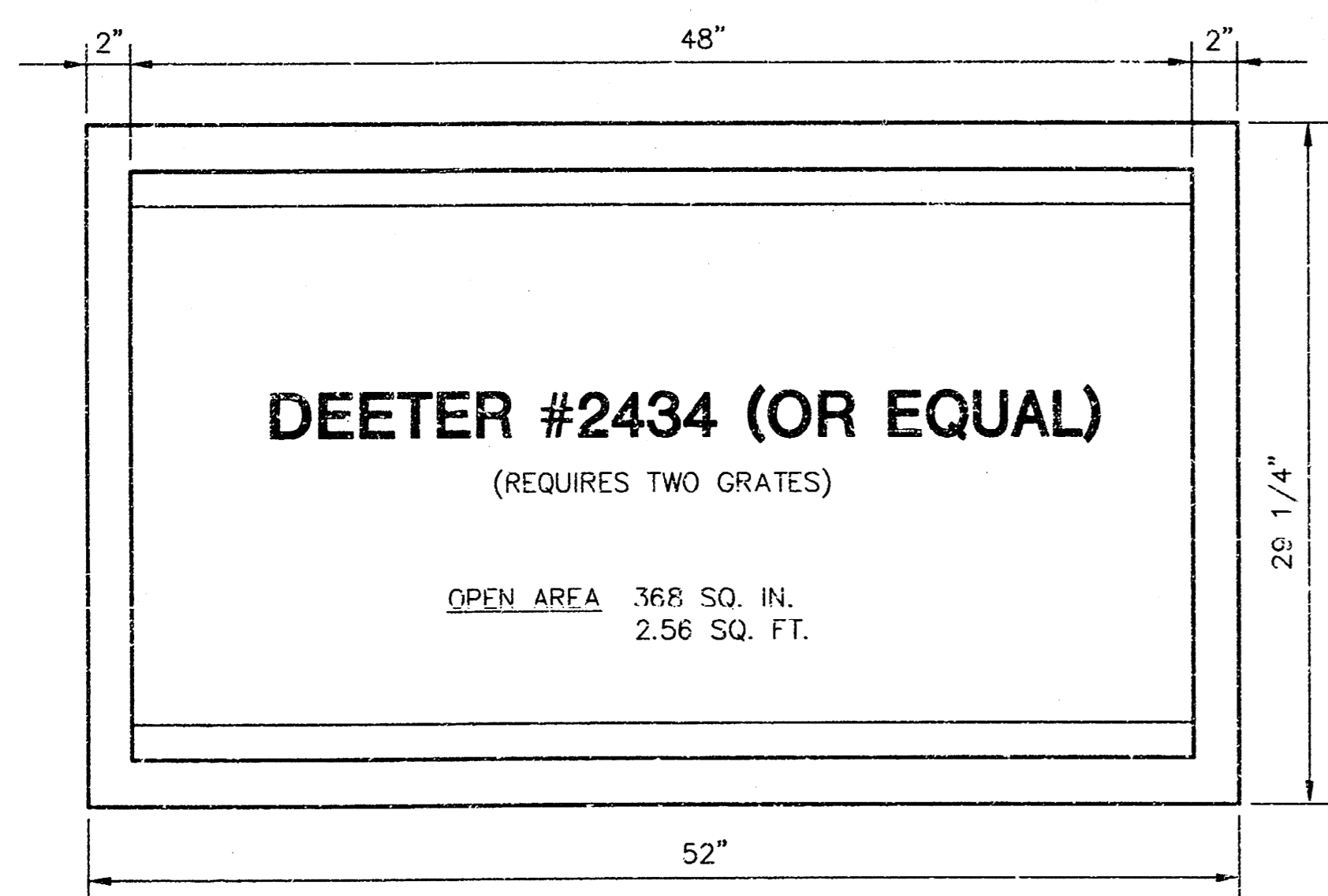
NOTE: GRATES SHALL BE IMPRINTED ON THE TOP SURFACE WITH "CITY OF WICHITA" USING LETTERS AT LEAST 1" IN HEIGHT. OTHER MARKING METHODS MAY BE USED ONLY IF APPROVED BY THE ENGINEER.



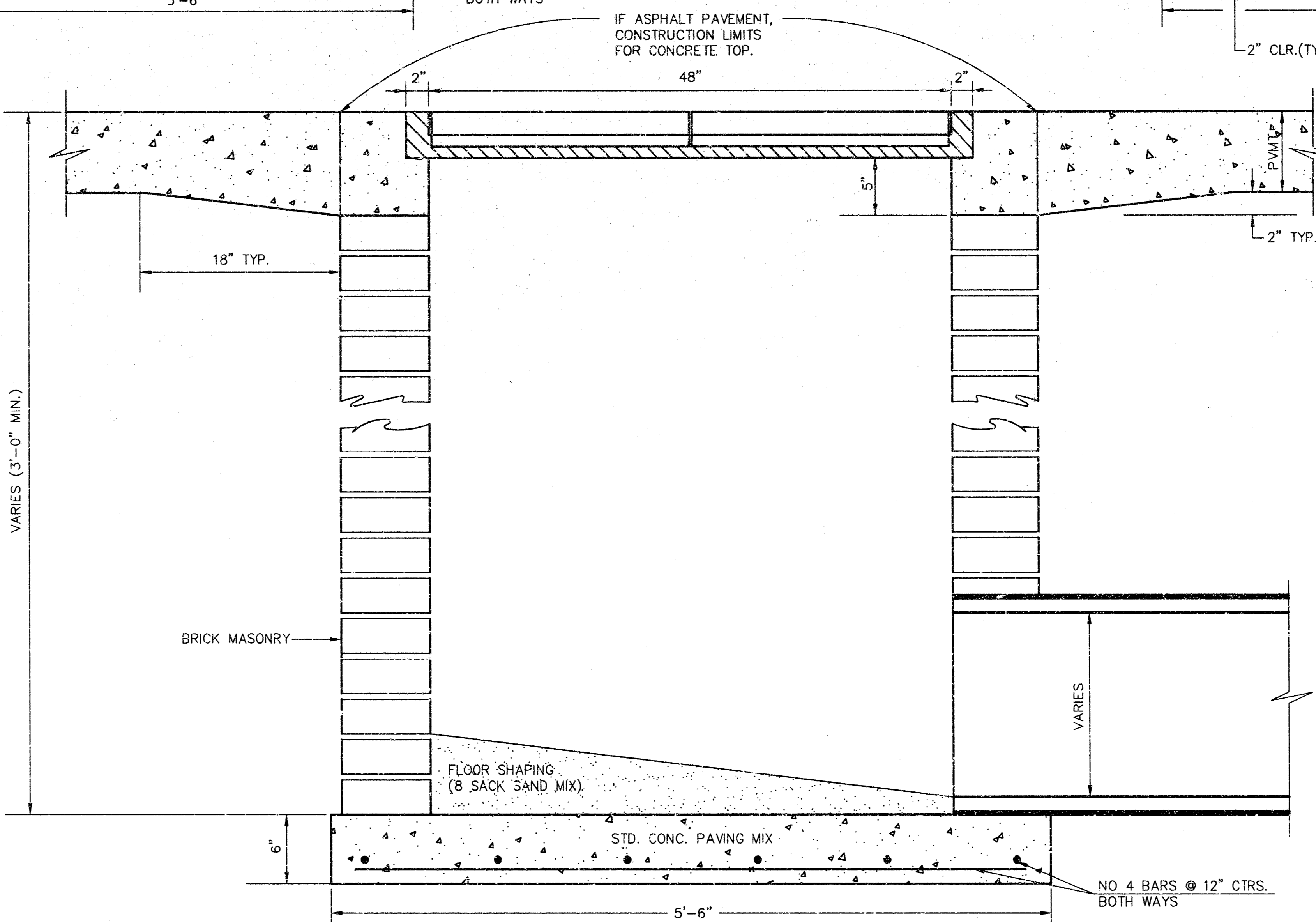
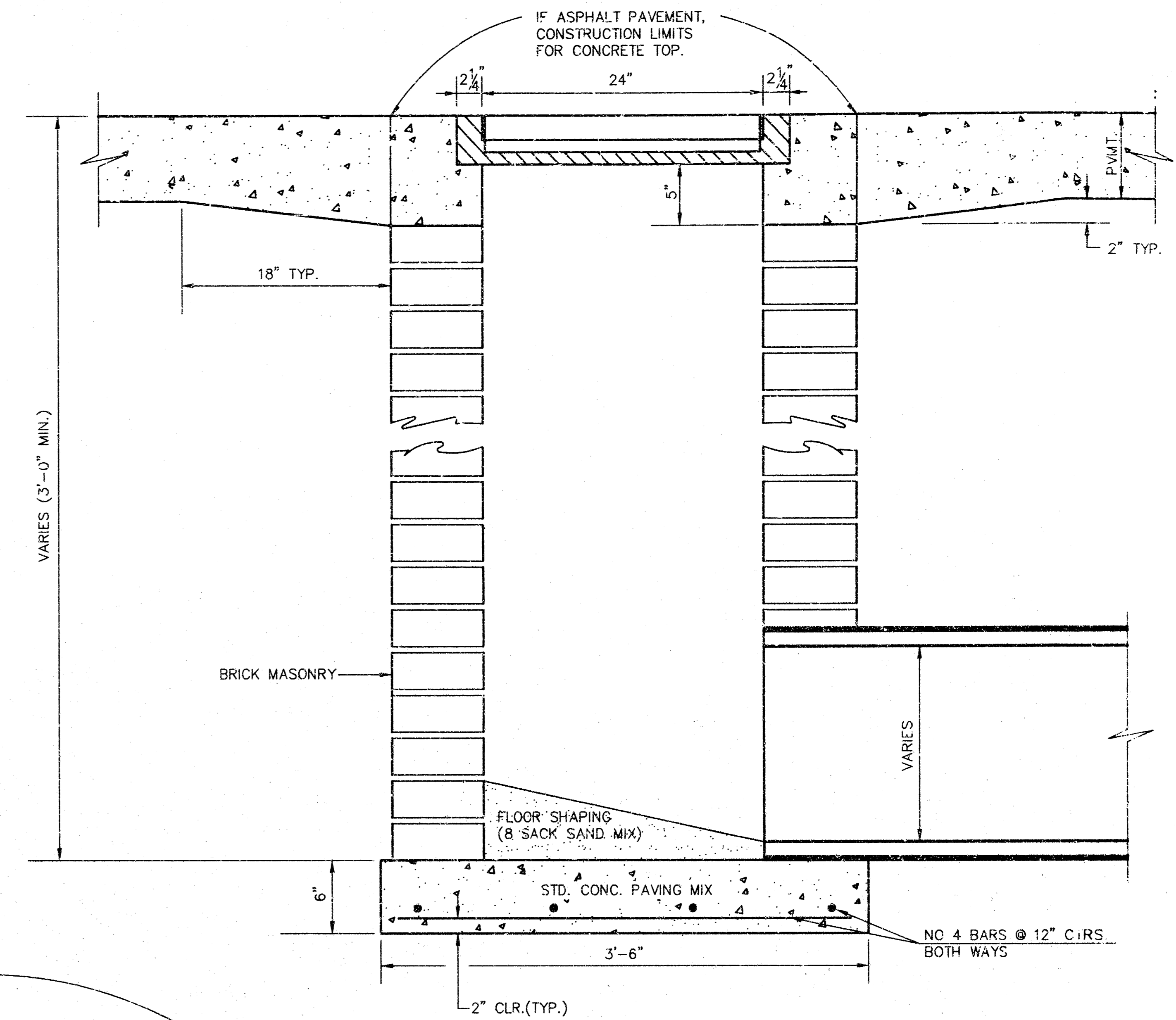
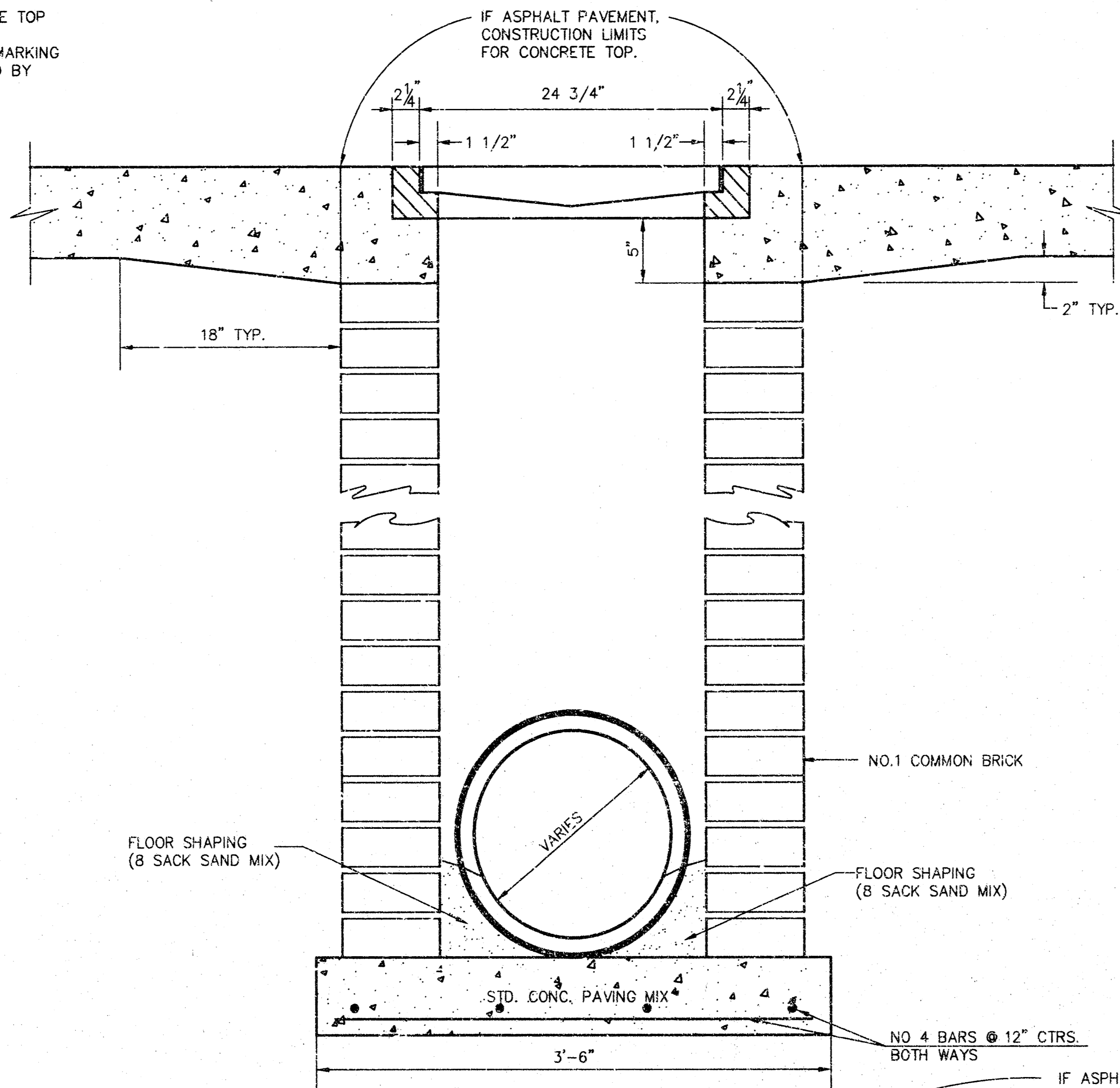
24"x24" GRATE DETAIL



SINGLE 24"x24" FRAME DETAIL



DOUBLE 24"x24" FRAME DETAIL



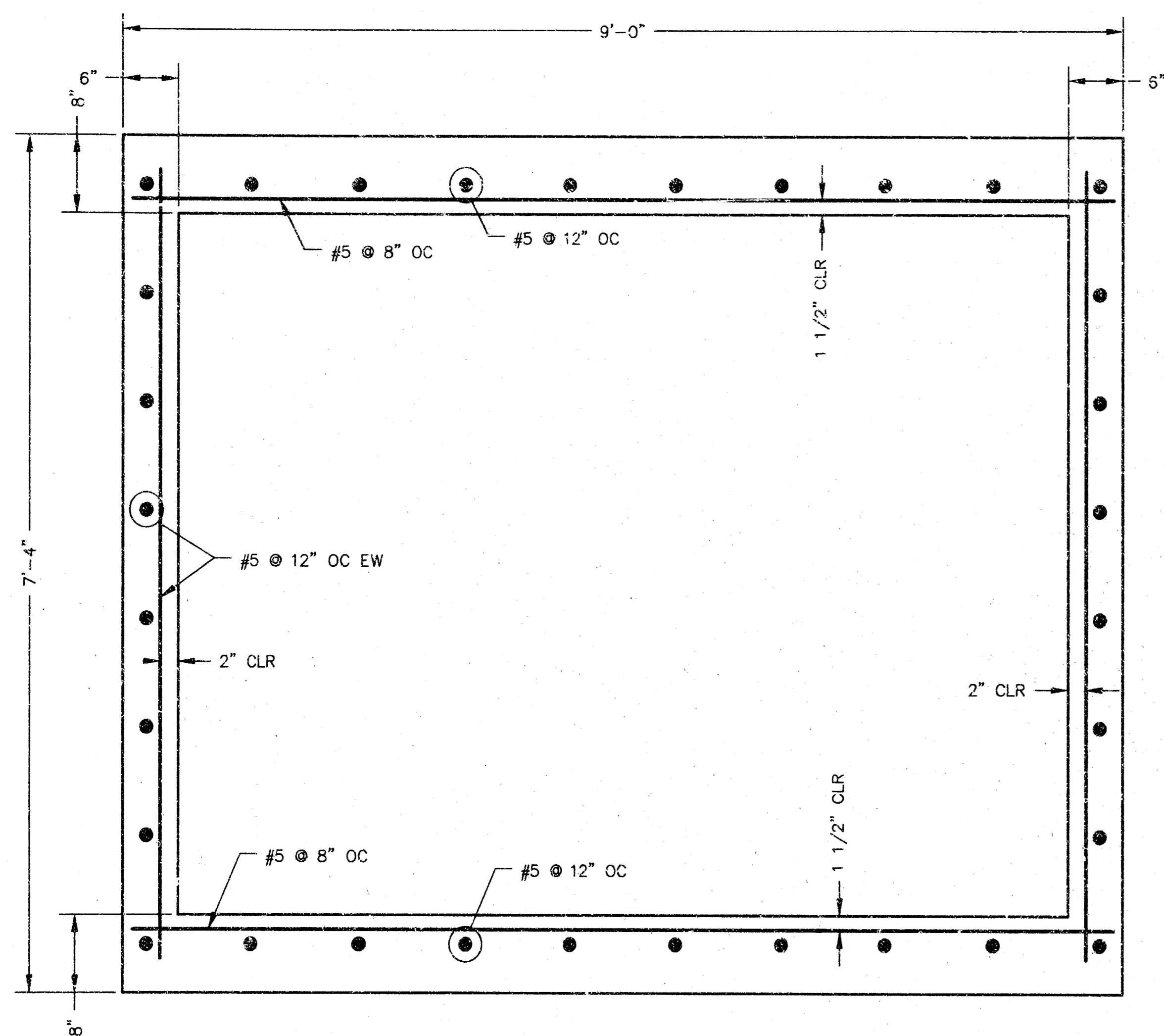
ORIFICE EQUATION		
$Q = C \cdot A \cdot \sqrt{2gh}$ $C = 0.60$		
h (DEPTH)	#2433 (SINGLE)	#2434 (DOUBLE)
0.1	1.95 cfs	3.89 cfs
0.2	2.75 cfs	5.50 cfs
0.3	3.37 cfs	6.74 cfs
0.4	3.89 cfs	7.78 cfs
0.5	4.35 cfs	8.70 cfs
0.6	4.77 cfs	9.53 cfs
0.7	5.15 cfs	10.30 cfs
0.8	5.50 cfs	11.01 cfs
0.9	5.84 cfs	11.67 cfs
1.0	6.15 cfs	12.30 cfs

REVISED: 5-8-90 JNJ

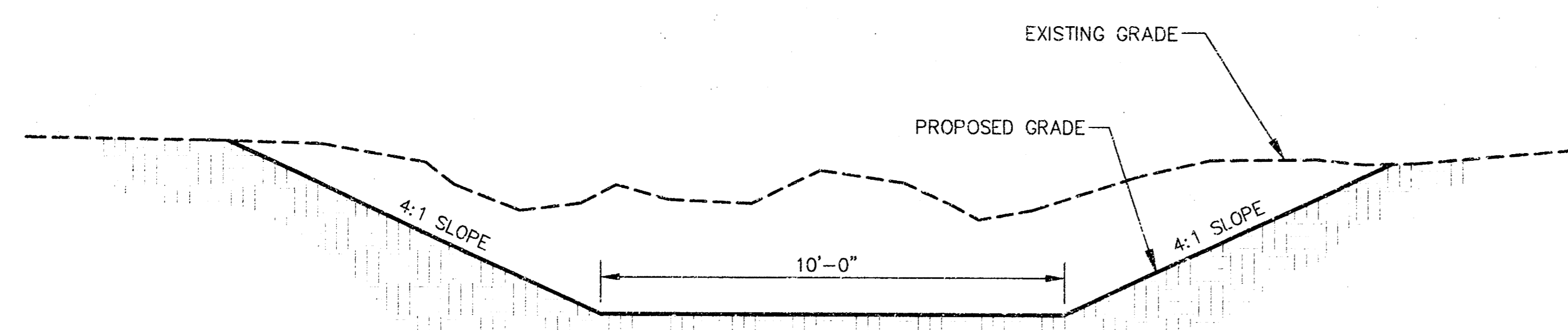
CITY OF WICHITA, KANSAS			
Design	Checked by	Checked by	Date
C.O.W.			8/10
Drawn by	Date	Date	Job No.
	JULY 1998		98065

SWS\_DTL2.DWG

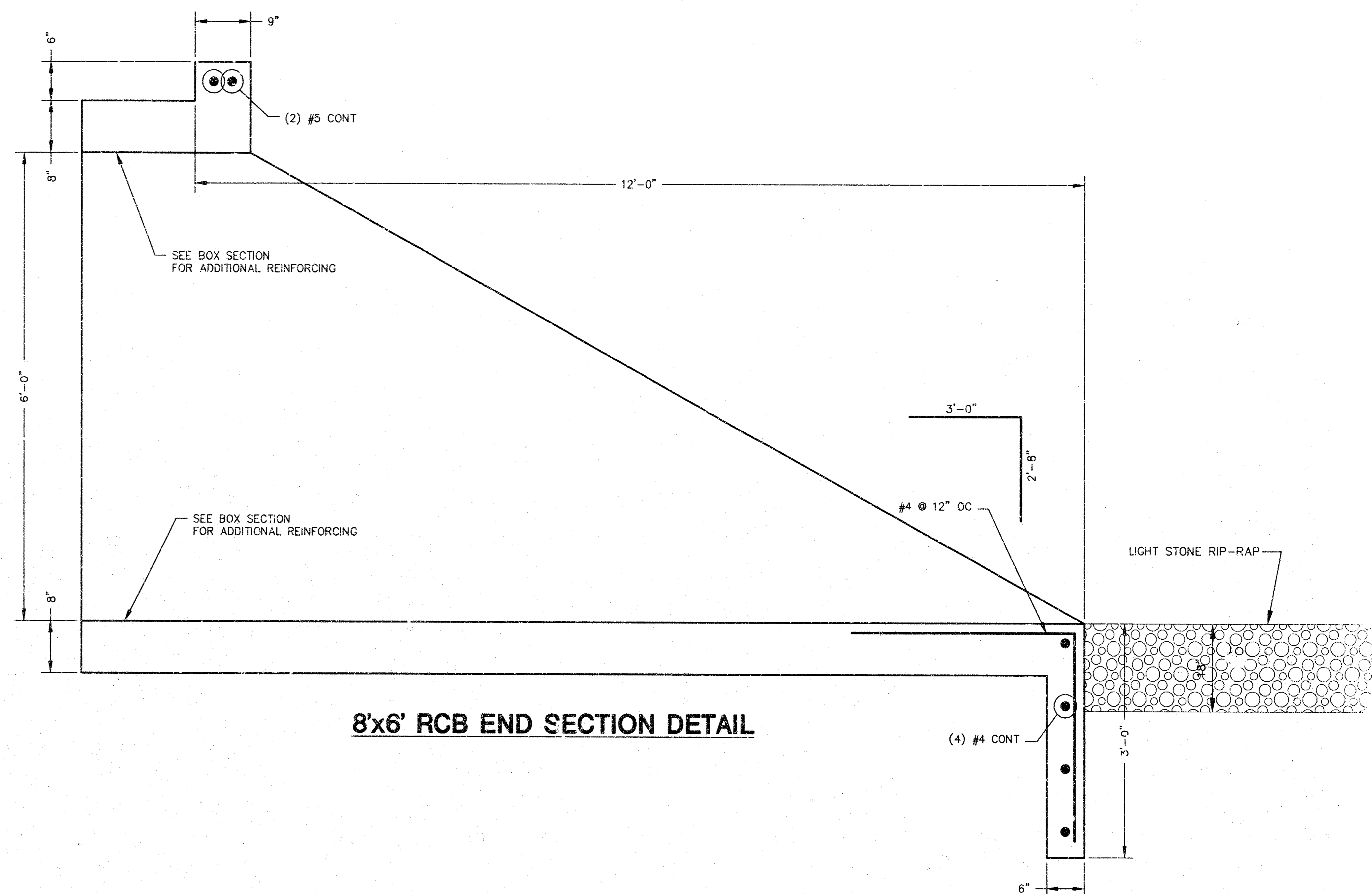
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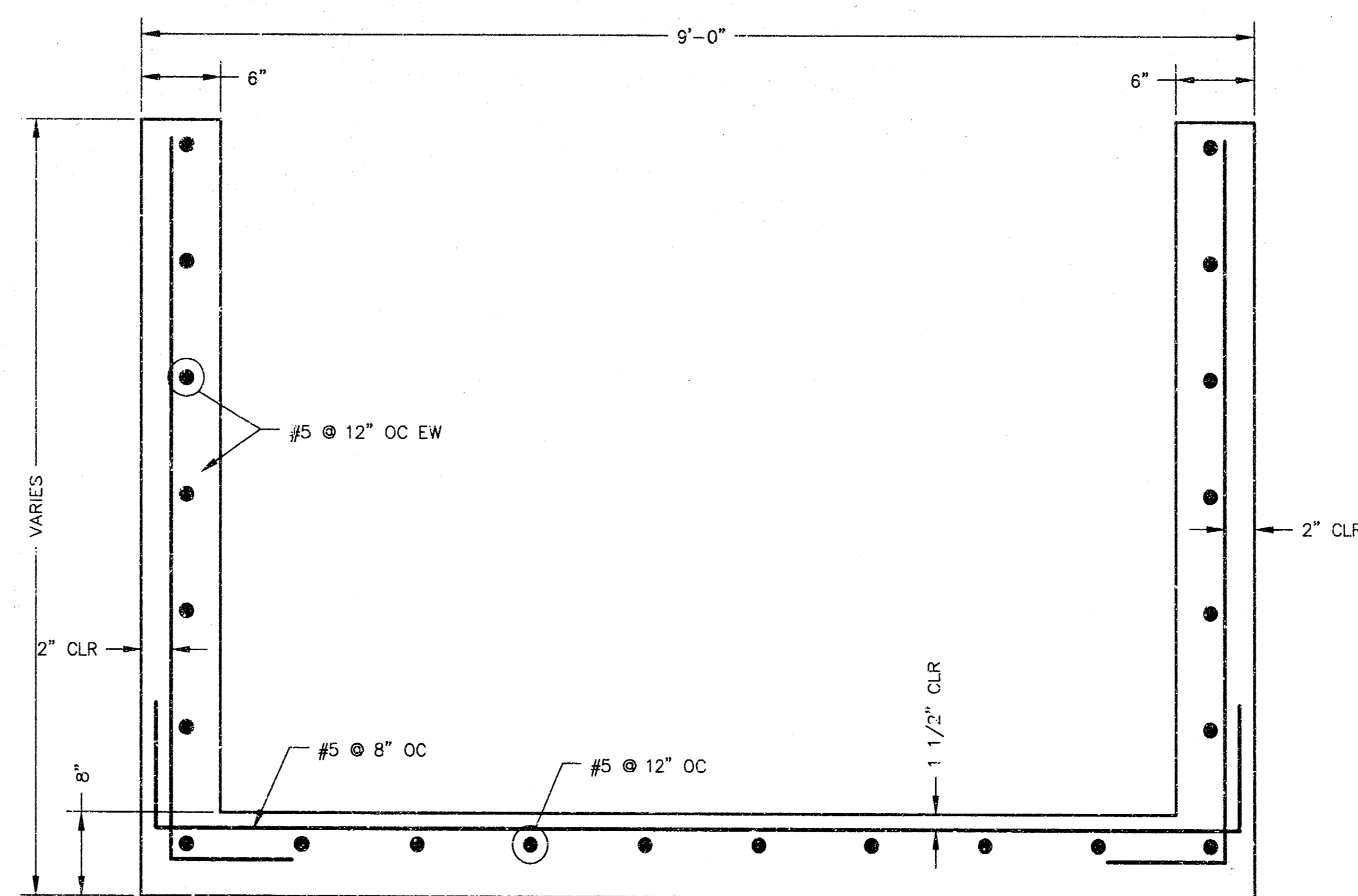
**8'x6' RCB CROSS SECTION DETAIL**



**CHANNEL CROSS SECTION**



**8'x6' RCB END SECTION DETAIL**



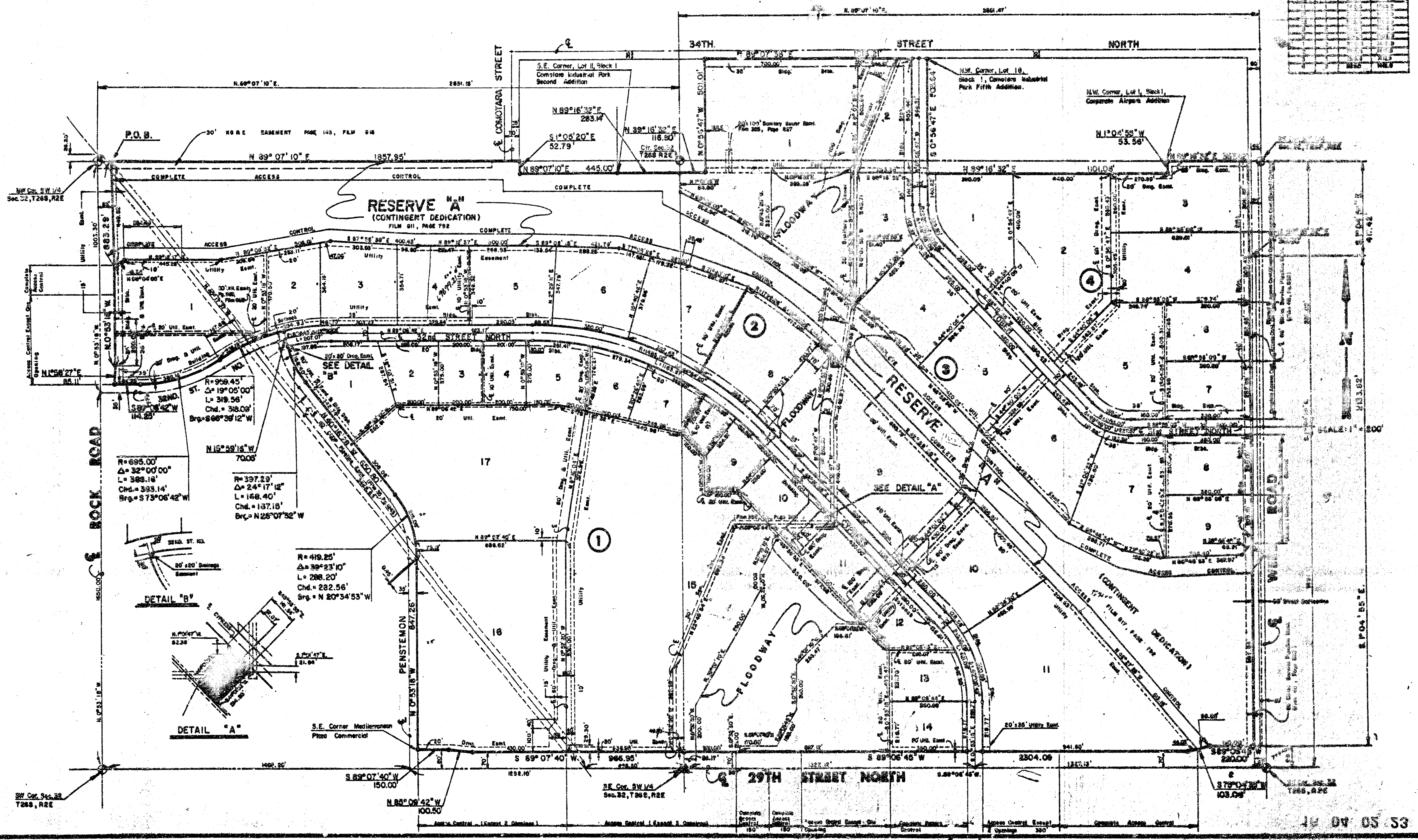
**3'x6' RCB END SECTION CROSS SECTION DETAIL**

<p>MID-KANSAS ENGINEERING CONSULTANTS, INC. 411 N WEBB ROAD WICHITA, KS. 67206 316-684-9600</p>	<b>LOT 1, BLK 3, MEDITERRANEAN PLAZA</b>		
	PROJECT NAME		
	<b>STORM WATER SEWER DETAILS</b>		
	SHEET TITLE		
DESIGN BY: JG	DRAWN BY: GJR	CHECKED BY: JG/KHB	
DATE: JULY 1998	JOB NO.: 98065	SHEET / OF: 9 / 10	

SWS\_DTL3.DWG

**FINAL PLAT OF**  
**MEDITERRANEAN PLAZA**  
 AN ADDITION TO WICHITA, SEDGWICK COUNTY, KANSAS

Lot No.	Area (S.F.)	Front Footage	Depth	Width
1				
2				
3				
4				
5				
6				
7				
8				
9				
10				
11				
12				
13				
14				
15				
16				
17				



10 04 05 53