

CONTRACT DRAWINGS

FOR

TRACE RIDGE SUBDIVISION PART 5

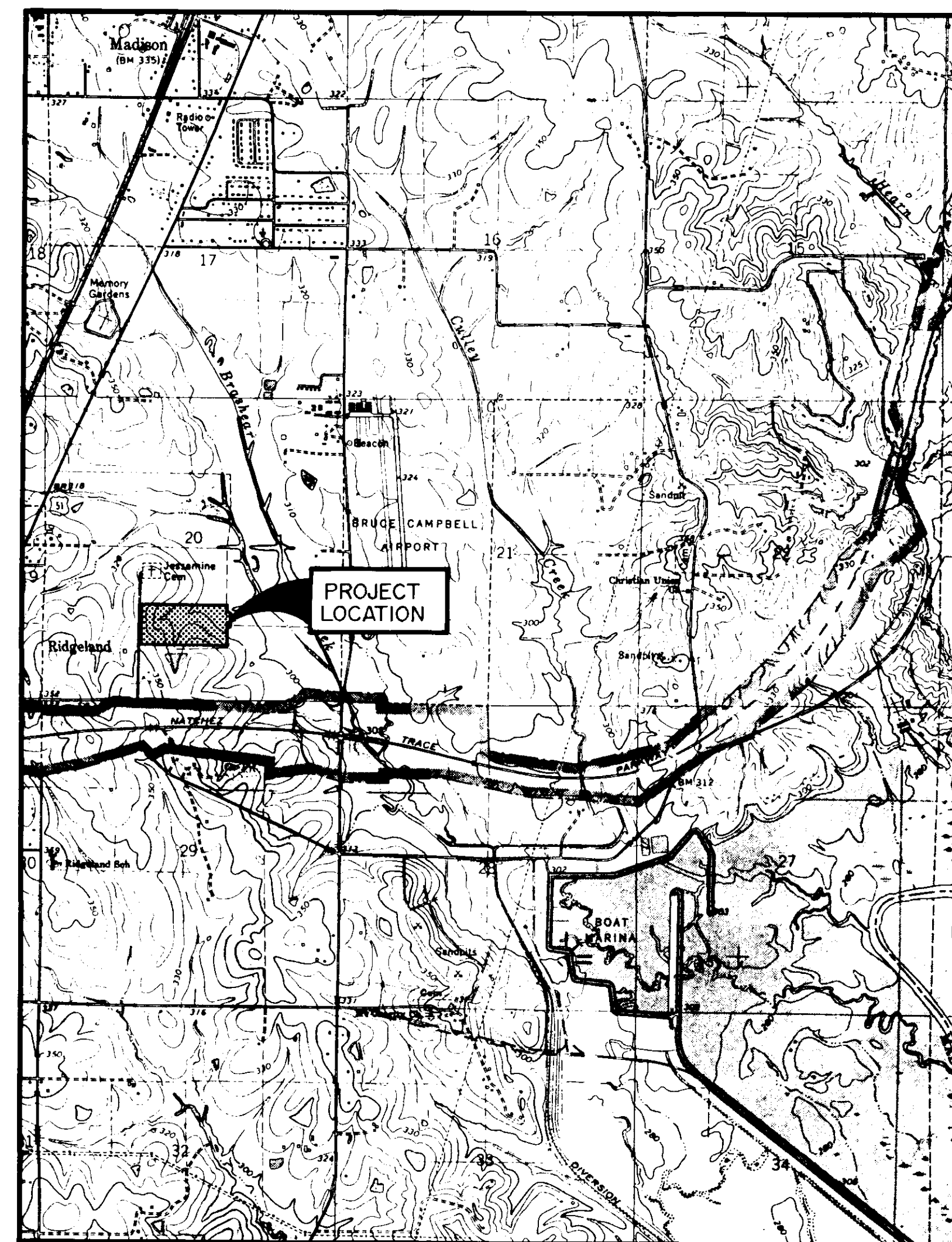
STREETS, DRAINAGE, SANITARY SEWER & WATER SYSTEM

INDEX TO DRAWINGS

SHEET NO.	DESCRIPTION
1	COVER SHEET
2	PRELIMINARY PLAT
3	GENERAL LAYOUT
4	DRAINAGE LAYOUT
5 - 9	PLAN-PROFILE SHEETS
10	WATER DETAILS
11	SEWER DETAILS
12	INLET DETAILS

ESTIMATED QUANTITIES

ITEM NO.	ITEM DESCRIPTION	ESTIMATED QUANTITY	UNIT
STREETS AND DRAINAGE			
100-1	CLEARING AND GRUBBING	4.9	AC
200-1	EXCAVATION-COMMON	7011	CY
200-2	EXCAVATION-CHANNEL	1400	CY
200-3	EXCAVATION-UNDERCUT & BACKFILL	4000	CY
200-4	EMBANKMENT	1538	CY
300-1	6" LIME TREATED SUB-BASE (ALT.)	10,254	SY
400-1	3" BLACK BASE COURSE (ALT.)	10,254	SY
400-2	4" BLACK BASE COURSE	10,254	SY
400-3	1-1/2" SURFACE COURSE	10,254	SY
500-1	CURB AND GUTTER	7158	SY
600-1	CURB INLET	24	EA
600-2	15" REINFORCED CONC. PIPE	673	LF
600-3	18" REINFORCED CONC. PIPE	608	LF
600-4	21" REINFORCED CONC. PIPE	320	LF
600-5	30" REINFORCED CONC. PIPE	198	LF
600-6	36" REINFORCED CONC. PIPE	30	LF
600-7	42" REINFORCED CONC. PIPE	1236	LF
600-8	54" REINFORCED CONC. PIPE	352	LF
600-9	29"x18" REINFORCED CONC. PIPE	200	LF
600-10	36"x23" REINFORCED CONC. PIPE	169	LF
600-11	65"x40" REINFORCED CONC. PIPE	244	LF
600-12	DROP INLET	2	EA
600-13	STORM MANHOLE	1	EA
600-14	CONNECT TO EXIST. PIPE	2	EA
600-15	JUNCTION BOX	1	EA
600-16	36"x23" FLARED END SECTION	1	EA
600-17	ROCK RIP-RAP	4	TN



VICINITY MAP

Browning, Inc.
CONSULTING ENGINEERS - SURVEYORS
P. O. Box 12711
1928 Popplewood Place
Jackson, Mississippi 39211

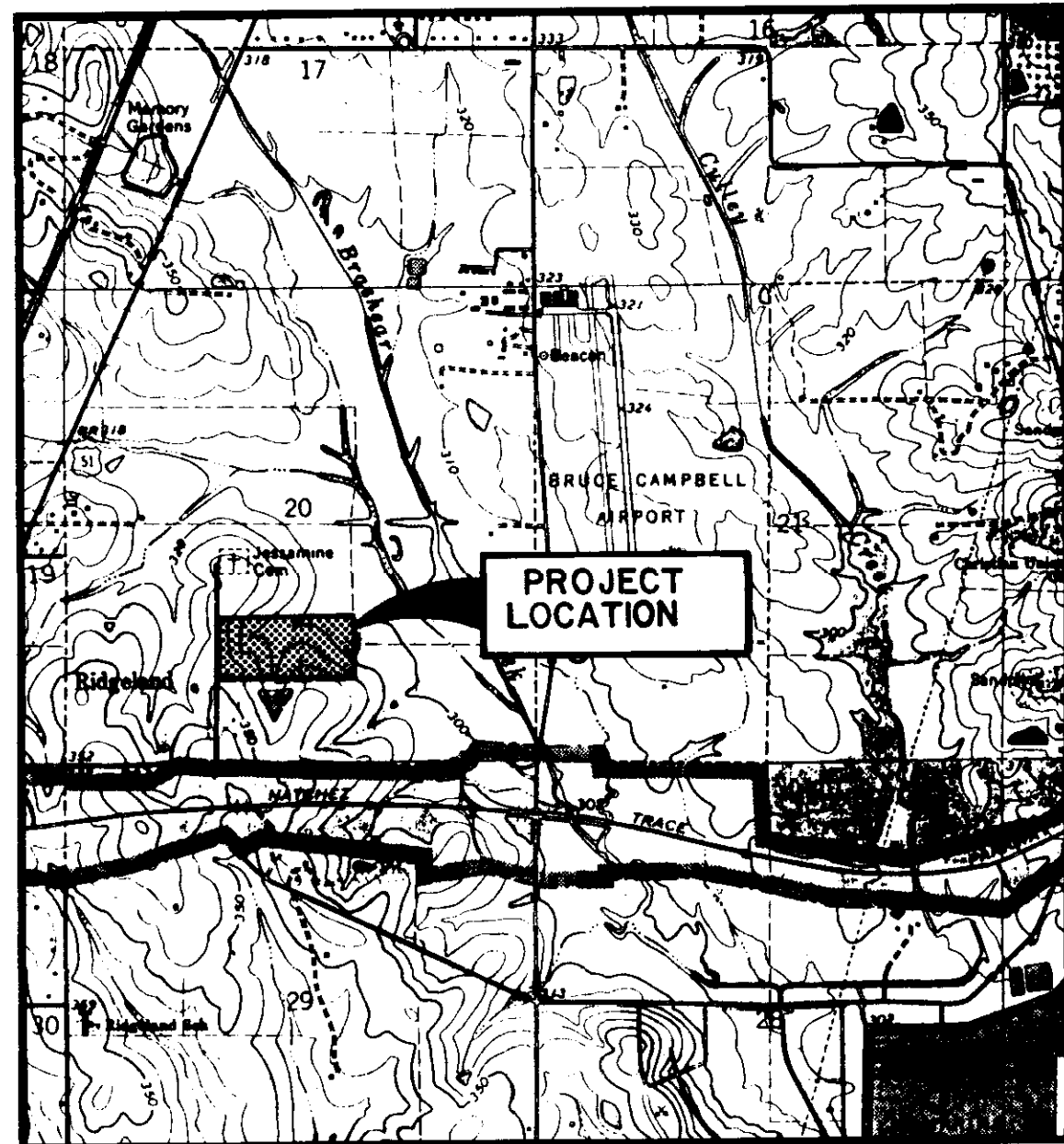
WATER DISTRIBUTION SYSTEM			
900-1	CONNECT TO EXISTING MAIN	3	EA
900-2	8" P.V.C. WATER MAIN, C-900, CLASS 150	3560	LF
900-3	8"x8"x6" TEE	7	EA
900-4	8"x8"x8" TEE	2	EA
900-5	8" GATE VALVE WITH BOX	7	EA
900-6	6" FIRE HYDRANT WITH GATE VALVE	7	EA
900-7	8" PLUG WITH 2" BLOW-OFF	1	EA
900-8	8" 45° BENDS	6	EA
900-9	SERVICE ASSEMBLY	68	EA
900-10	3/4" SERVICE LINE	2108	LF
900-11	SERVICE MARKERS	68	EA
SANITARY SEWER SYSTEM			
1000-1	CONNECT TO EXISTING MAIN	1	EA
1000-2	8" SAN SEWER (0'-8")	3764	LF
1000-3	48" STANDARD MANHOLE (0'-8")	20	EA
1000-4	UNDERCUT & SELECT BACKFILL	500	CY
1000-5	6" SAN. SEWER SERVICE	1685	LF
1000-6	6" SERVICE TEE	52	EA
1000-7	SERVICE MARKERS	68	EA
GRASS PLANTING			
1100-1	SEEDING	2.4	AC

AS BUILT
OCTOBER, 1991

I hereby certify that a final field survey was conducted and that these "as built" plans resulted from said survey and are true and correct to the best of my knowledge. I further certify that each improvement has been constructed in accordance with City specifications.

PHILIP L. Browning, P. E. No. 5952

PWP-02010



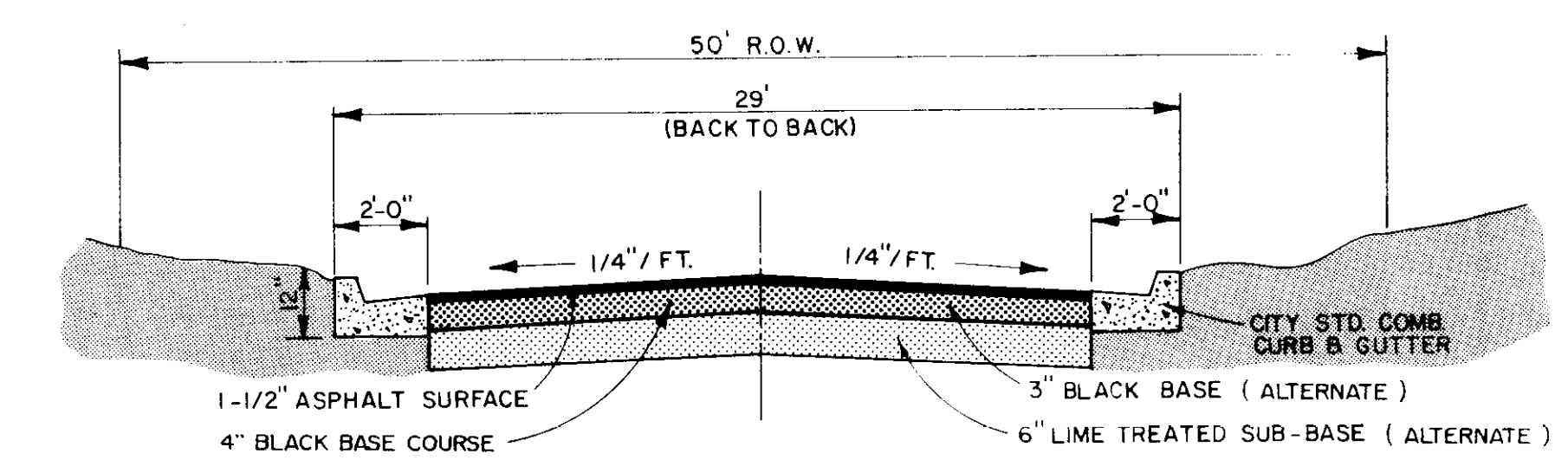
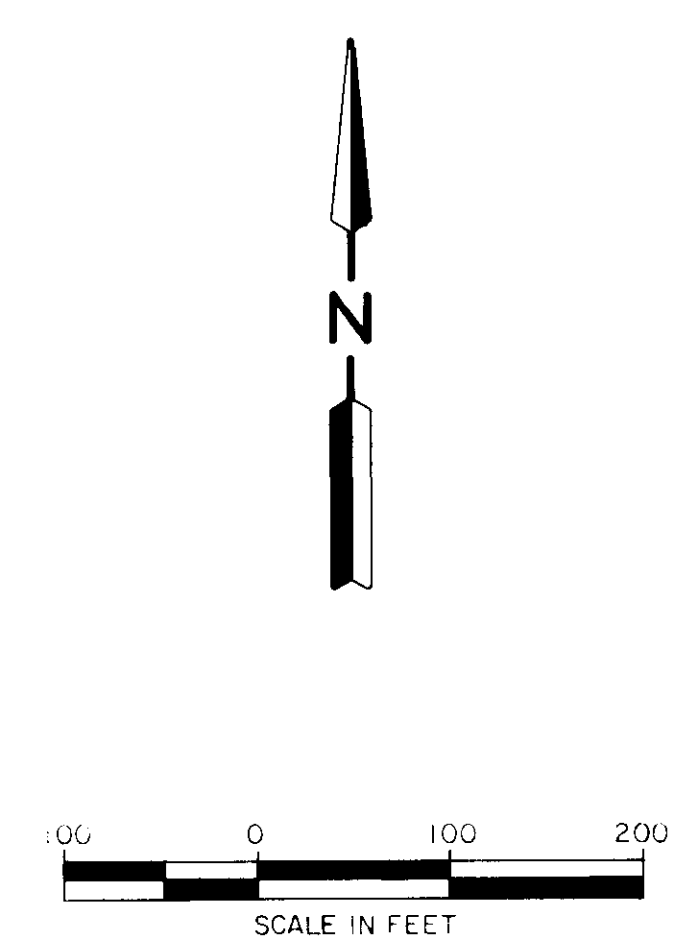
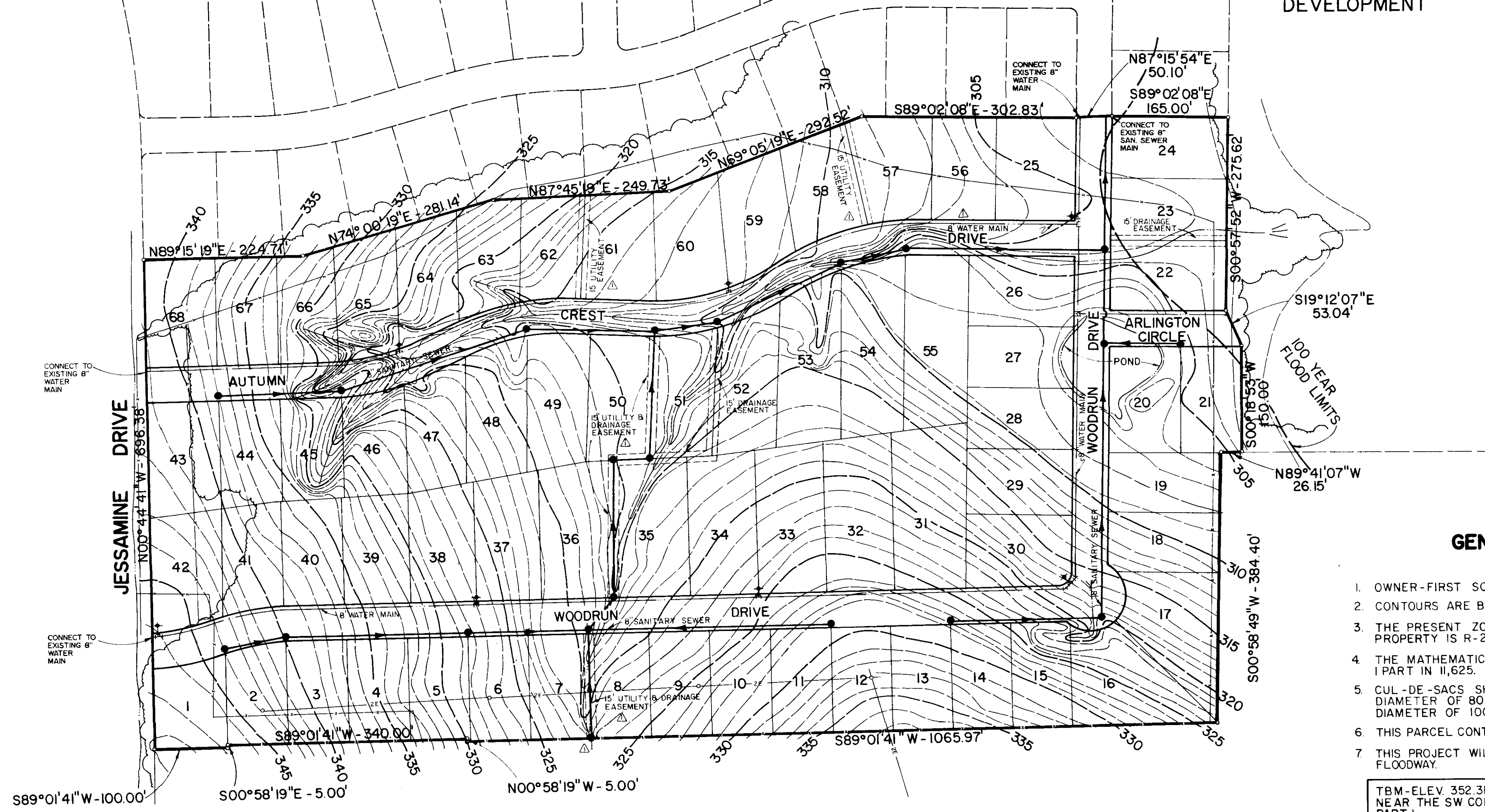
VICINITY MAP

CEMETERY

JESSAMINE

TRACE RIDGE SUBDIVISION PART 4

FUTURE DEVELOPMENT



TYPICAL STREET SECTION

GENERAL NOTES

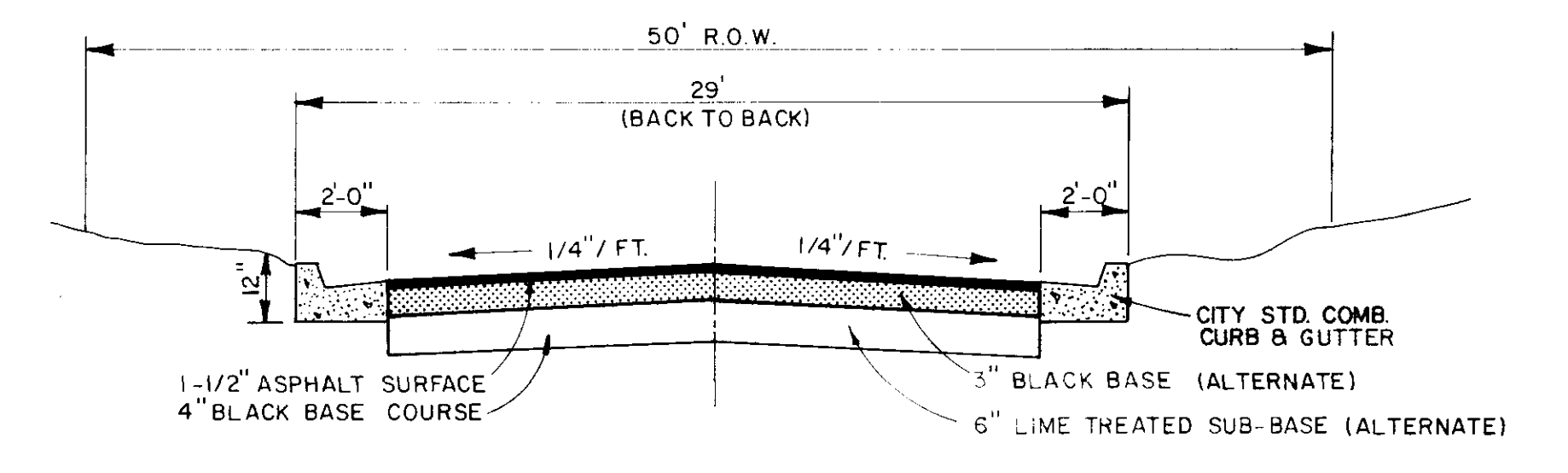
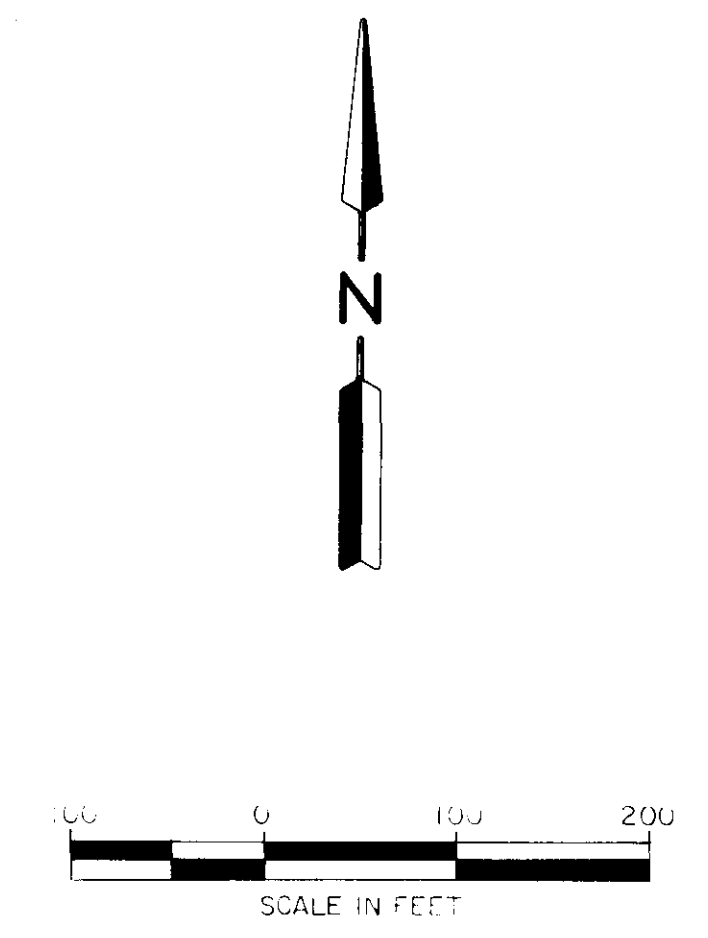
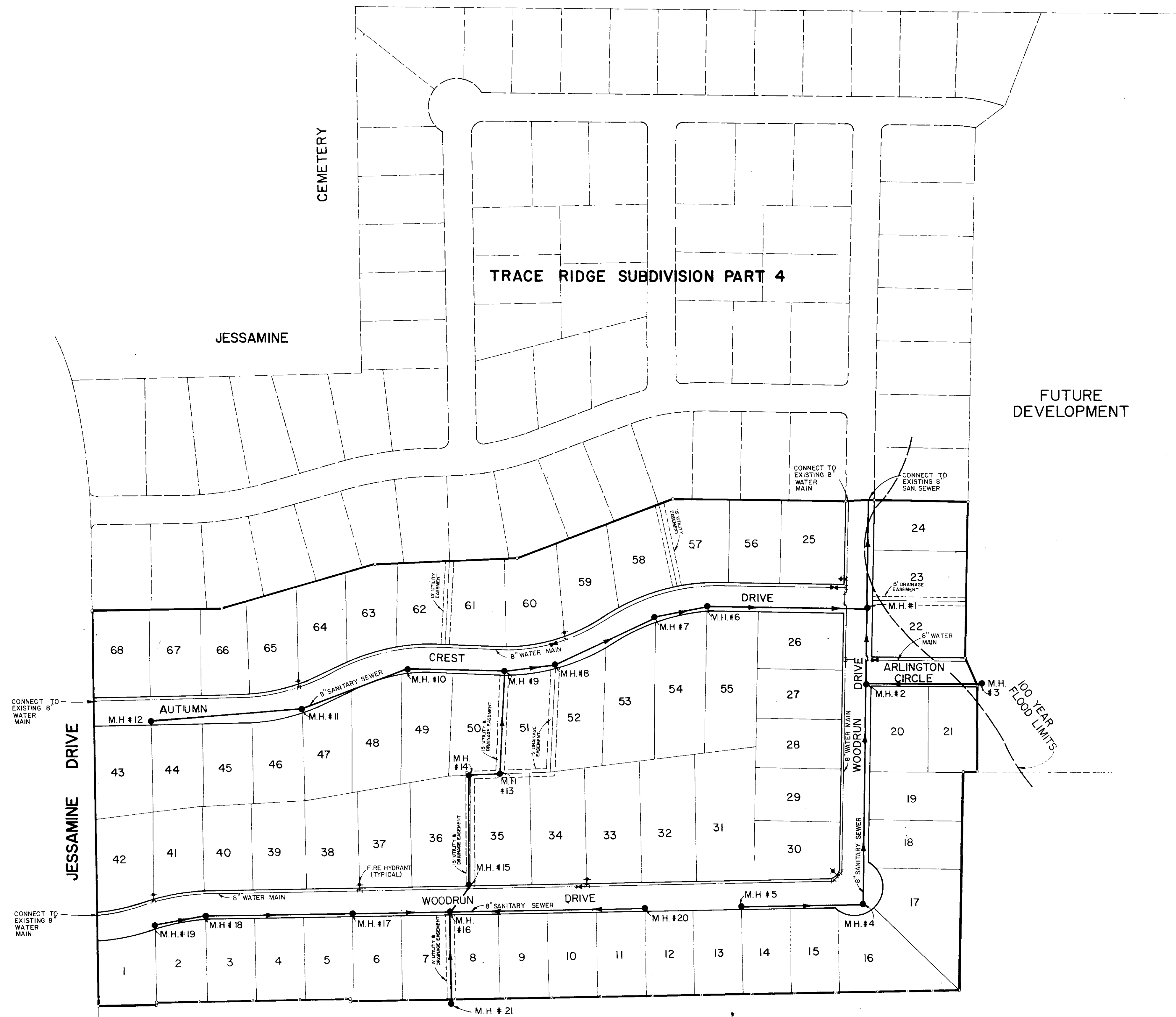
1. OWNER - FIRST SOUTHEAST CORP., MADISON, MS.
2. CONTOURS ARE BASED ON MEAN SEA LEVEL DATUM.
3. THE PRESENT ZONING CLASSIFICATION OF THE SUBJECT PROPERTY IS R-2, SINGLE-FAMILY RESIDENTIAL DISTRICT.
4. THE MATHEMATICAL CLOSURE OF SURVEY IS 1 PART IN 11,625.
5. CUL-DE-SACS SHALL HAVE A MINIMUM PAVED SURFACE DIAMETER OF 80 FEET AND A MINIMUM PROPERTY LINE DIAMETER OF 100 FEET.
6. THIS PARCEL CONTAINS 27.74 ACRES MORE OR LESS.
7. THIS PROJECT WILL NOT ENCROACH UPON A DESIGNATED FLOODWAY.

FBM - ELEV. 352.31 (M.S.L. DATUM) - TOP OF CONC. MON. NEAR THE SW CORNER OF TRACE RIDGE SUBDIVISION, PART I.

PRELIMINARY PLAT
OF
**TRACE RIDGE SUBDIVISION
PART 5**
SITUATED IN
SOUTH 1/2 OF SECTION 20
T7N - R2E
RIDLAND, MISSISSIPPI

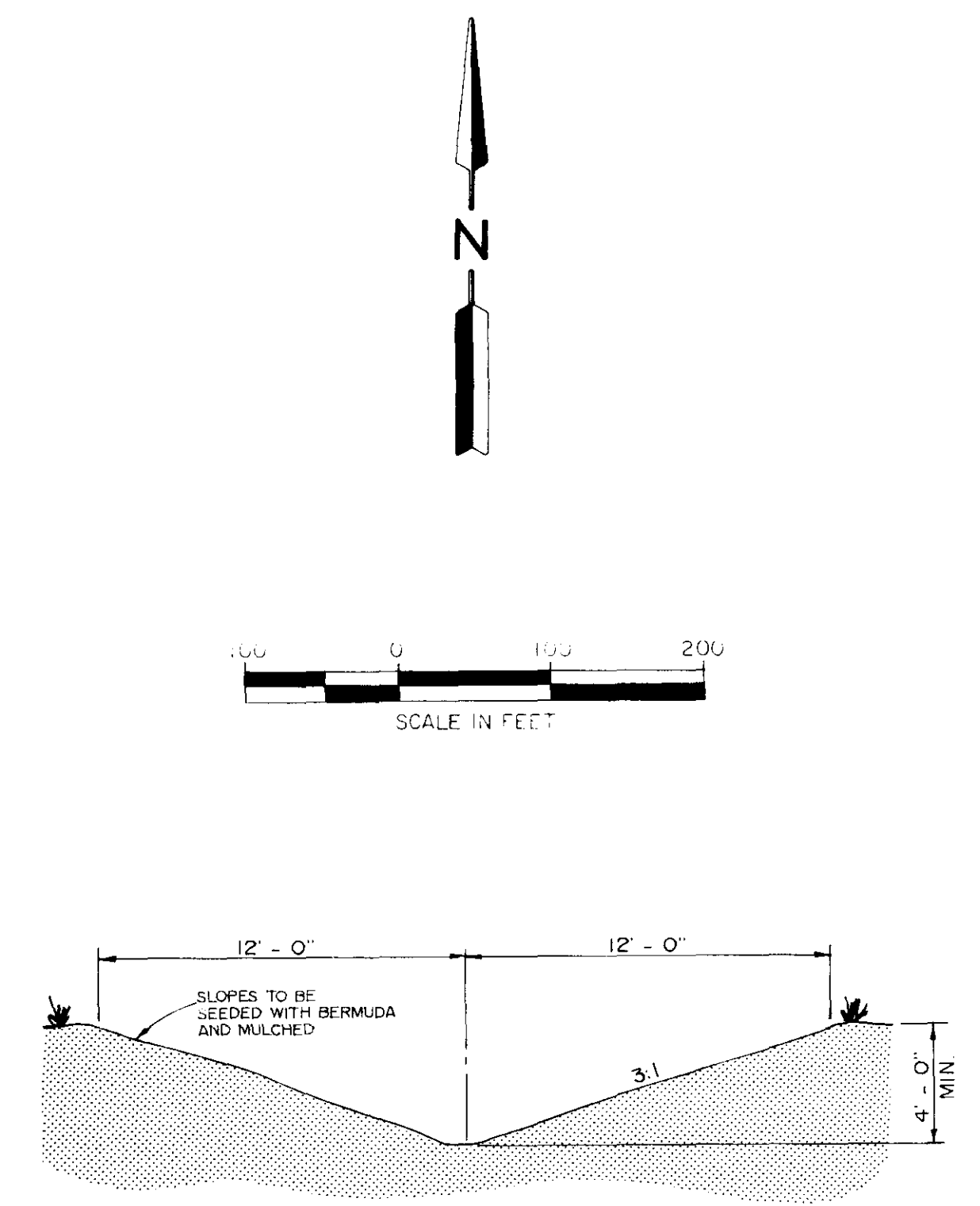
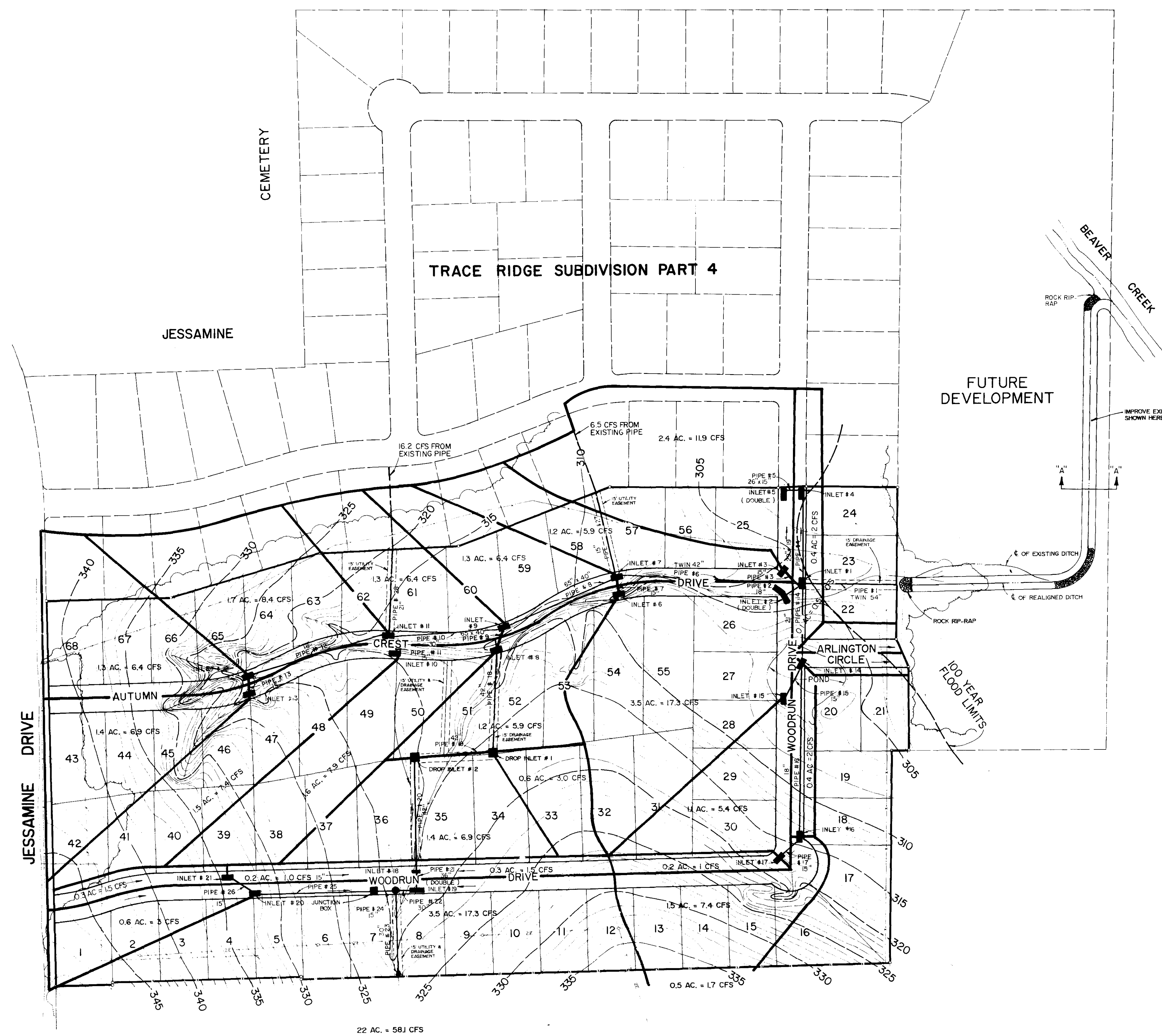
FEBRUARY, 1991

REV. FEB. 25, 1991



TYPICAL STREET SECTION

TRACE RIDGE SUBDIVISION PART 5		
GENERAL LAYOUT		
BROWNING INC. Consulting Engineers Jackson, Mississippi		
Designed By: P.L.B.	Scale: 1" = 100'	Sheet 3 of 12
Drawn By: J.F.	Date: FEB., 1991	



DITCH SECTION "A - A"
DITCH SLOPE = .35 %

TABULATION OF FLOW DATA

% DEPTH	Q (CFS)	V (FPS)
100	238	4.4
80	132	2.5
60	61	1.3
40	21	2.7
20	3	1.7

**TRACE RIDGE SUBDIVISION
PART 5**

DRAINAGE LAYOUT

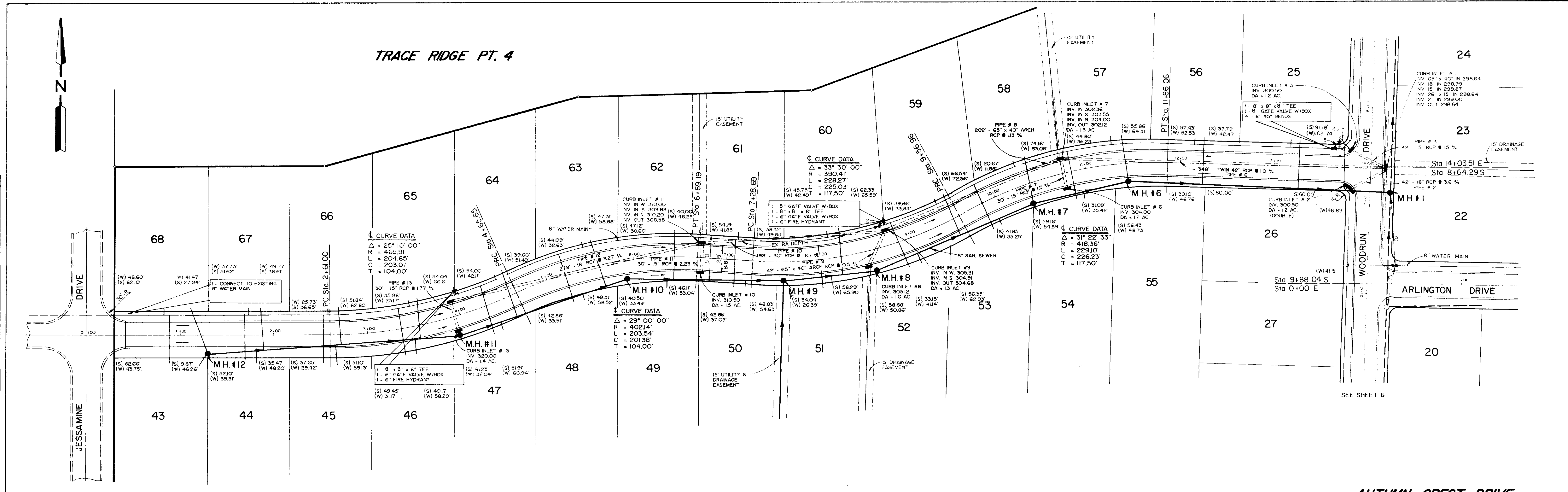
BROWNING INC.
Consulting Engineers Jackson, Mississippi

Designed By: P.L.B.	Scale: 1" = 100'	Sheet 4 of 12
Drawn By: J.F.	Date: FEB, 1991	

TRACE RIDGE PT. 4

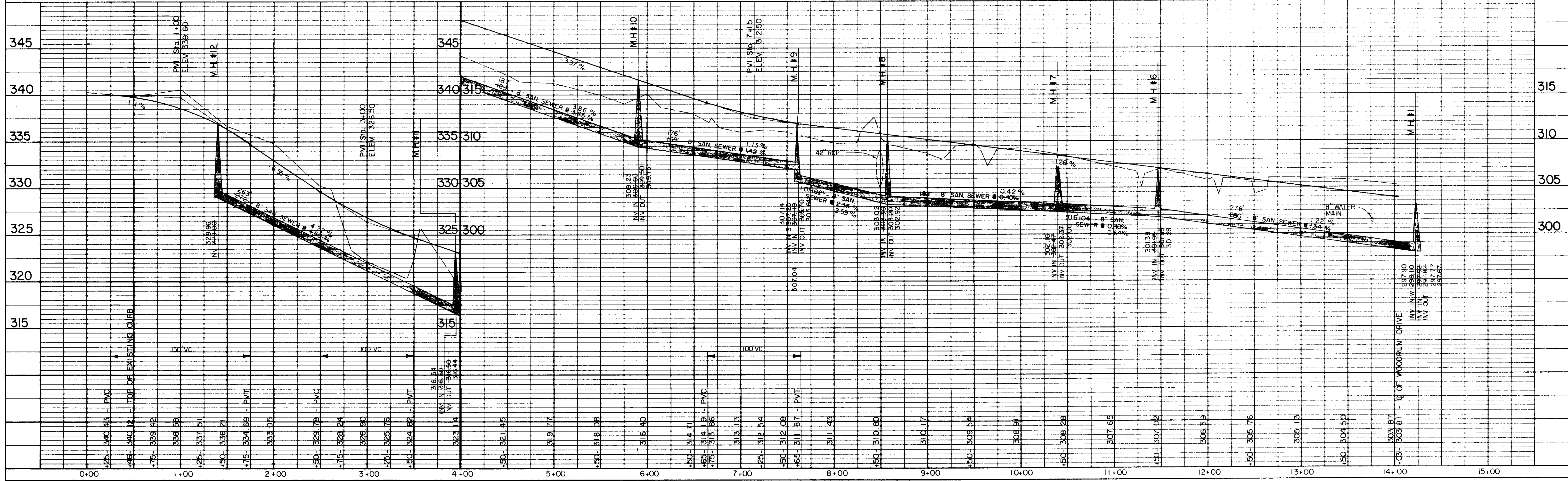


PLAN	SURVEYED	DATE
NOTE BOOK PLOTTED	BY	
ALIGNMENT CHECKED		
NO. OF PLY CHECKED		



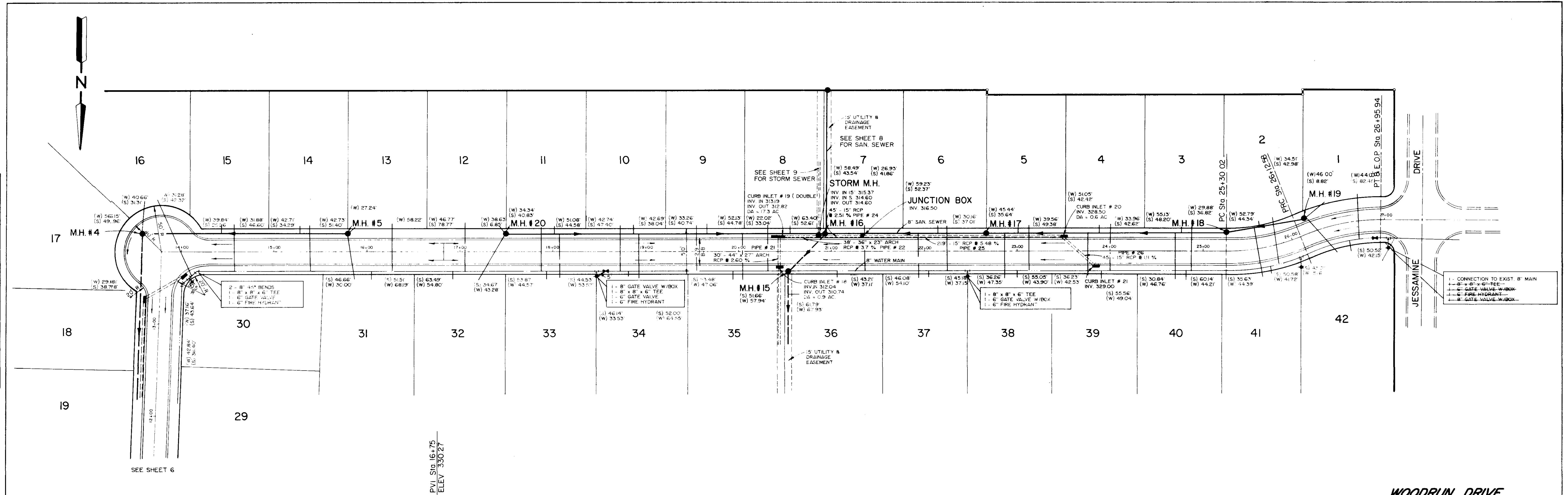
AUTUMN CREST DRIVE

PROFILE	DATE
NOTE BOOK PLOTTED	BY
GRADES CHECKED	
NO. OF PLY CHECKED	

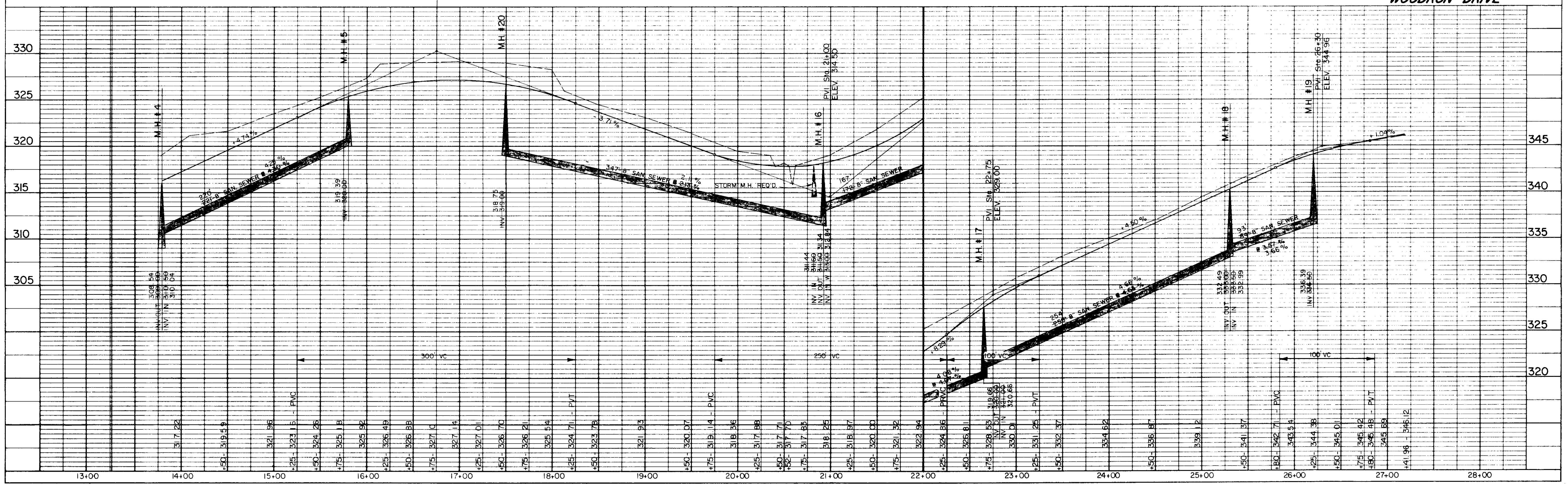




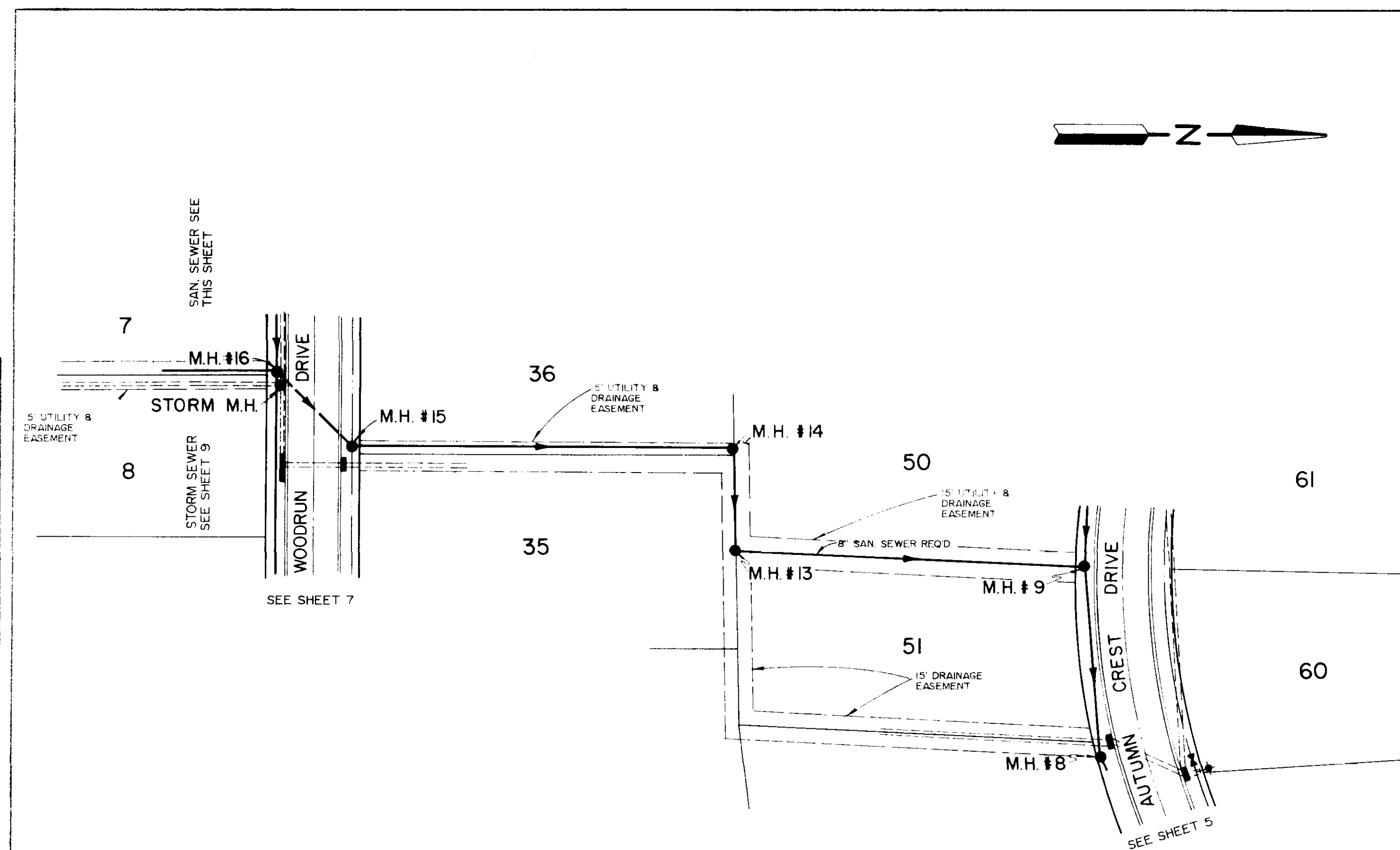
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NOTE BOOK	PLOTTED	
NO.	ALIGNED	CHECKED
	BY	BY
	DATE	DATE



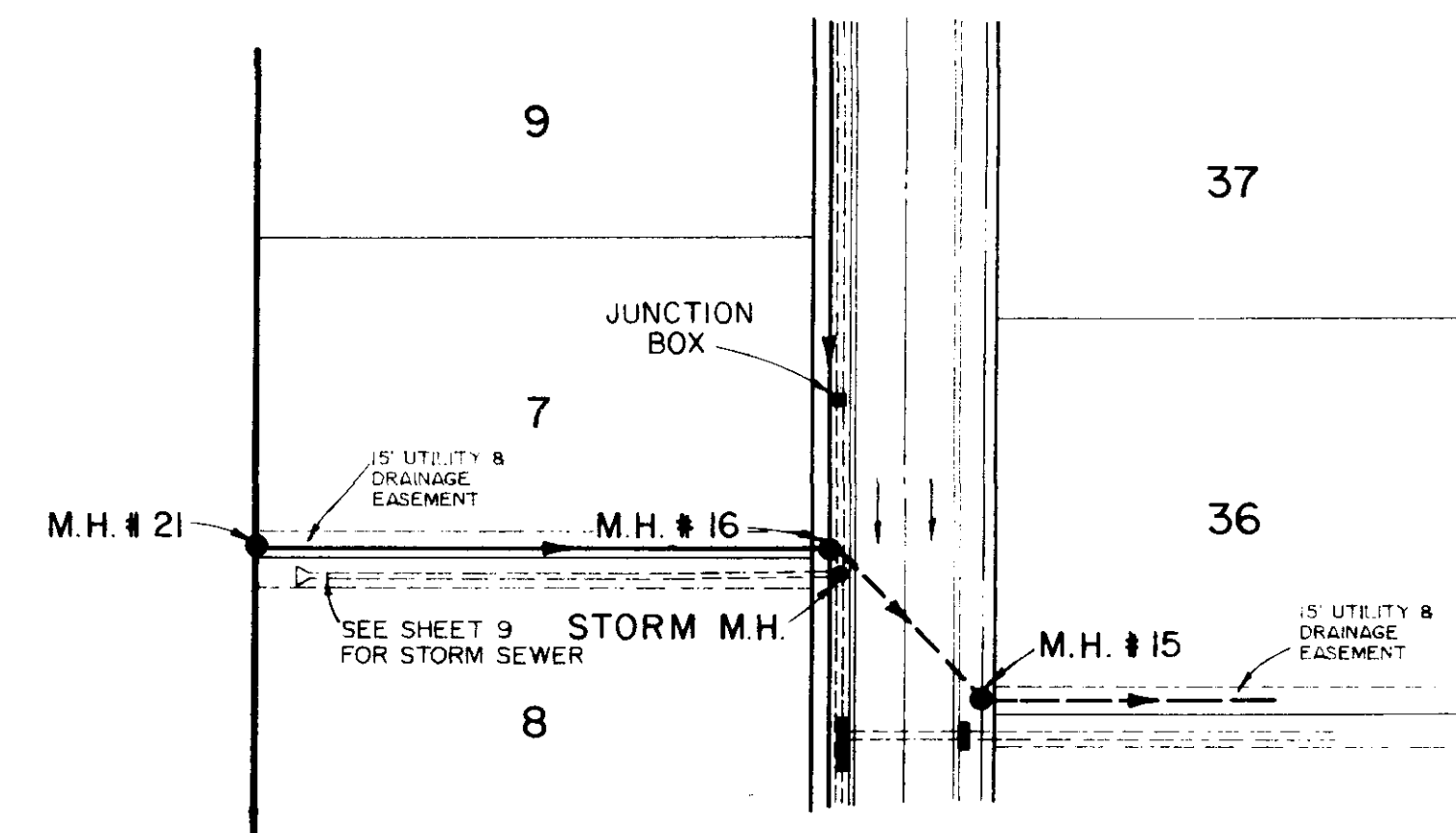
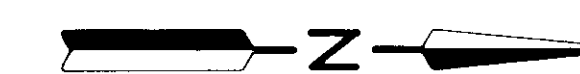
PROFILE	SURVEYED	DATE
NOTE BOOK	PLOTTED	
NO.	ALIGNED	CHECKED
	BY	BY
	DATE	DATE



PLAN	NO.	DATE
NOTE (B)		
ADJUSTMENT CHECKED		
BY		
DATE		

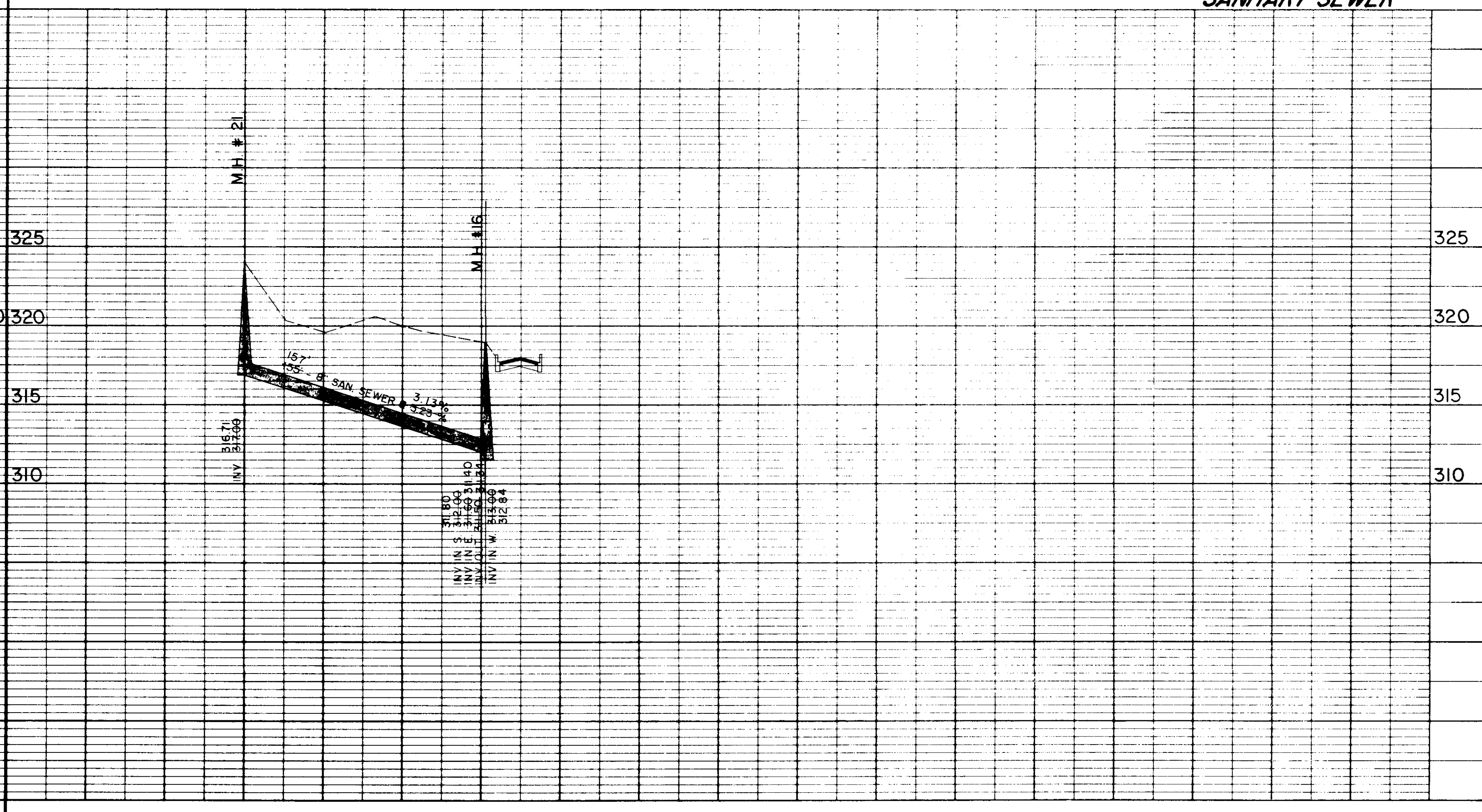
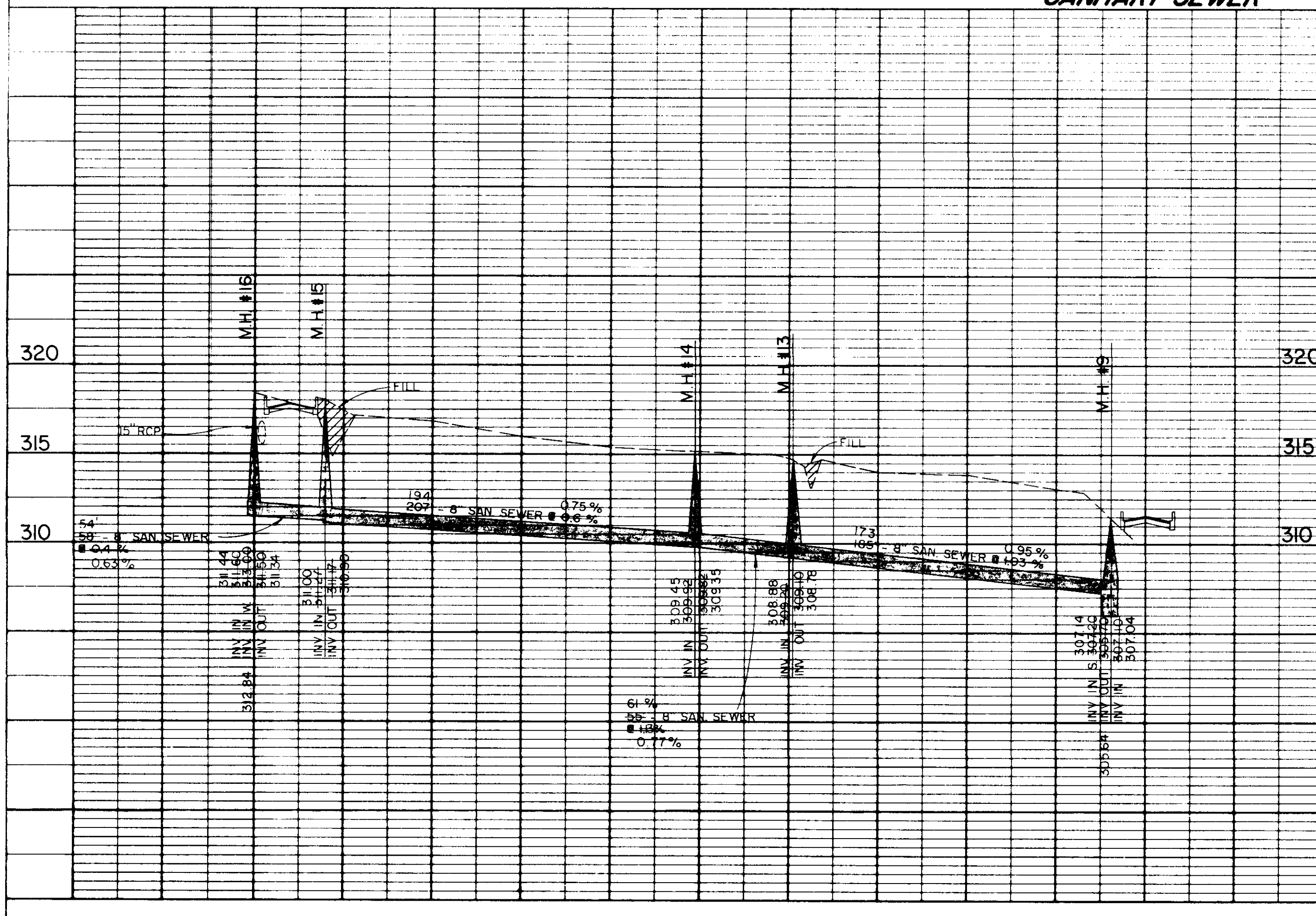


SANITARY SEWER



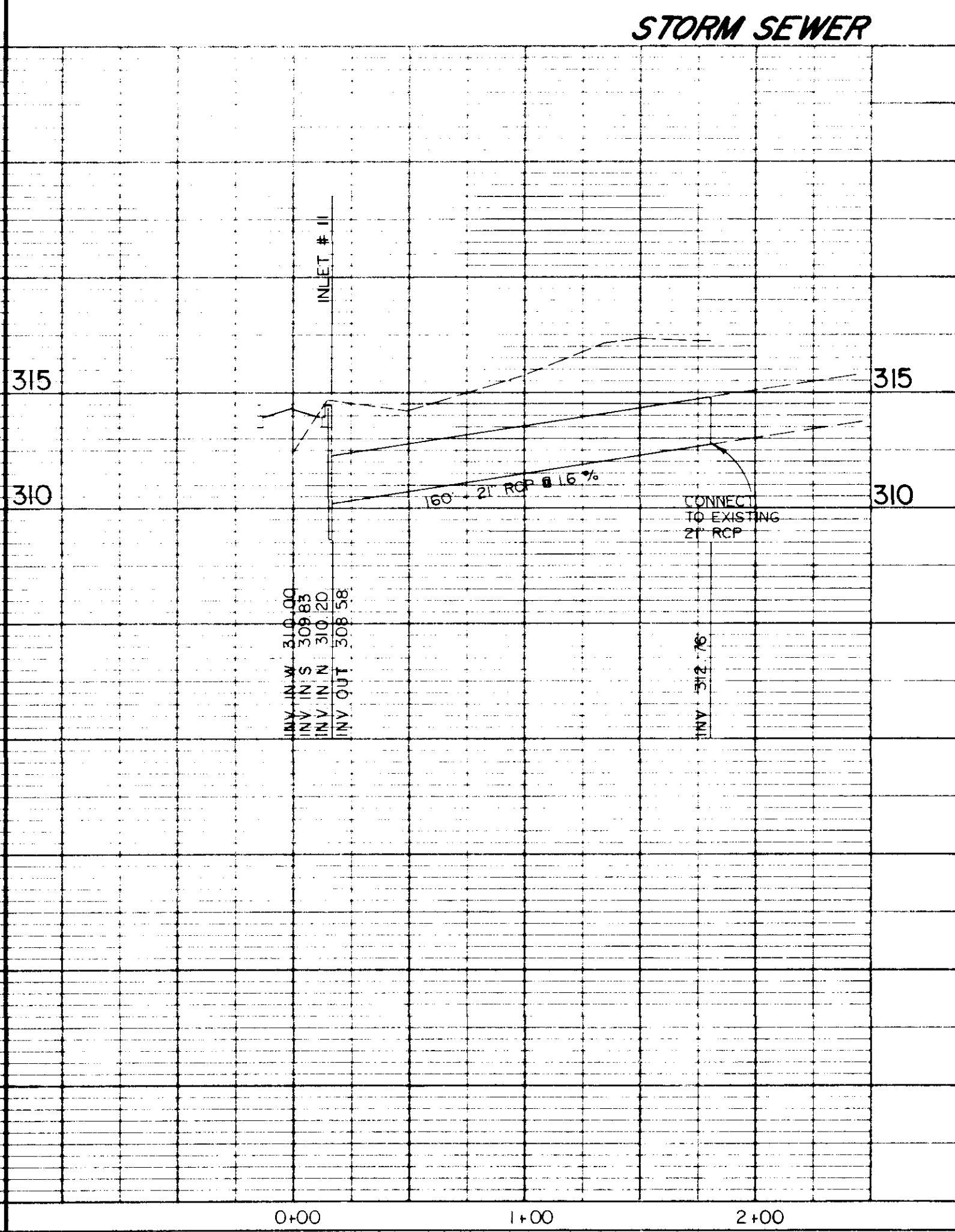
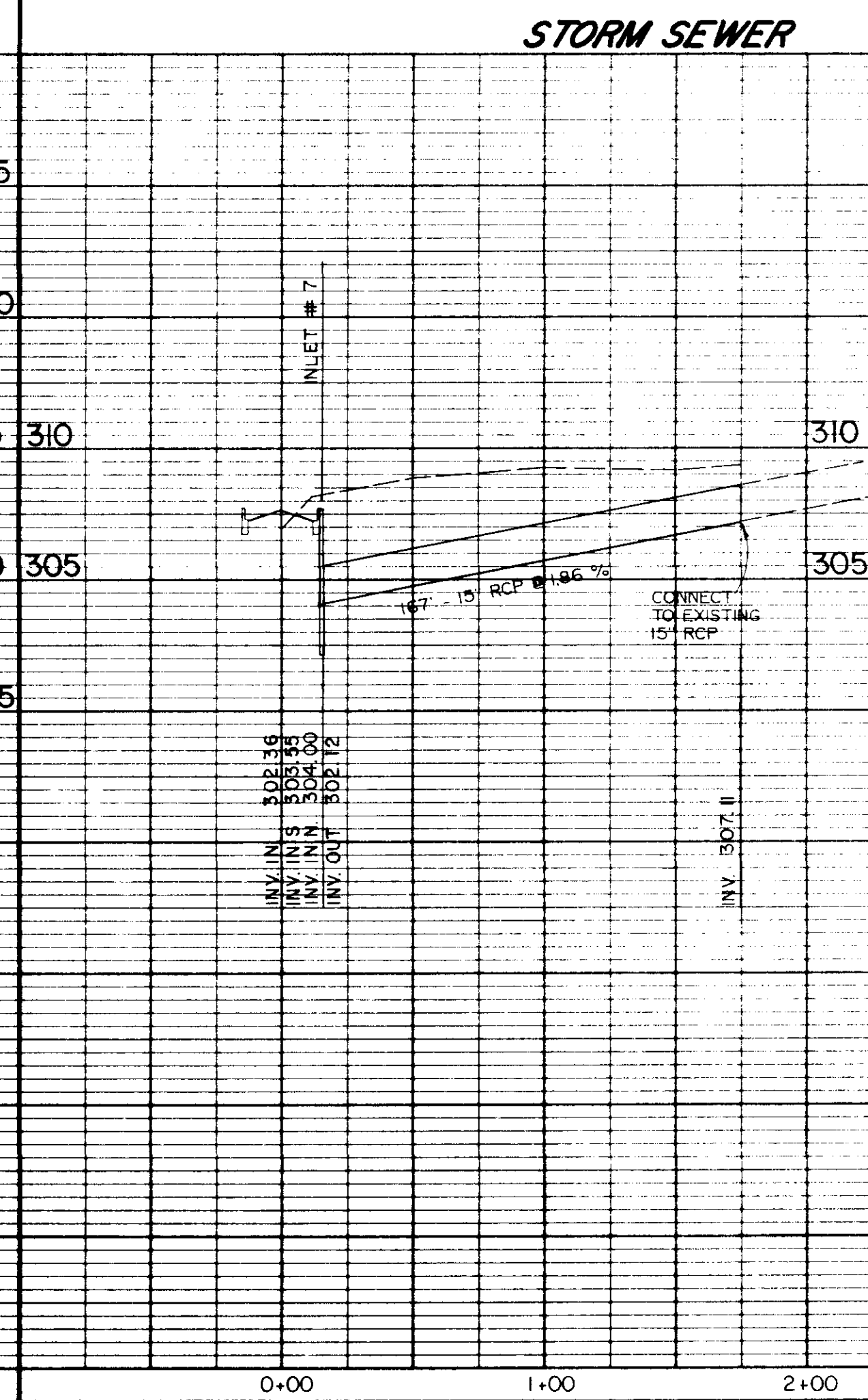
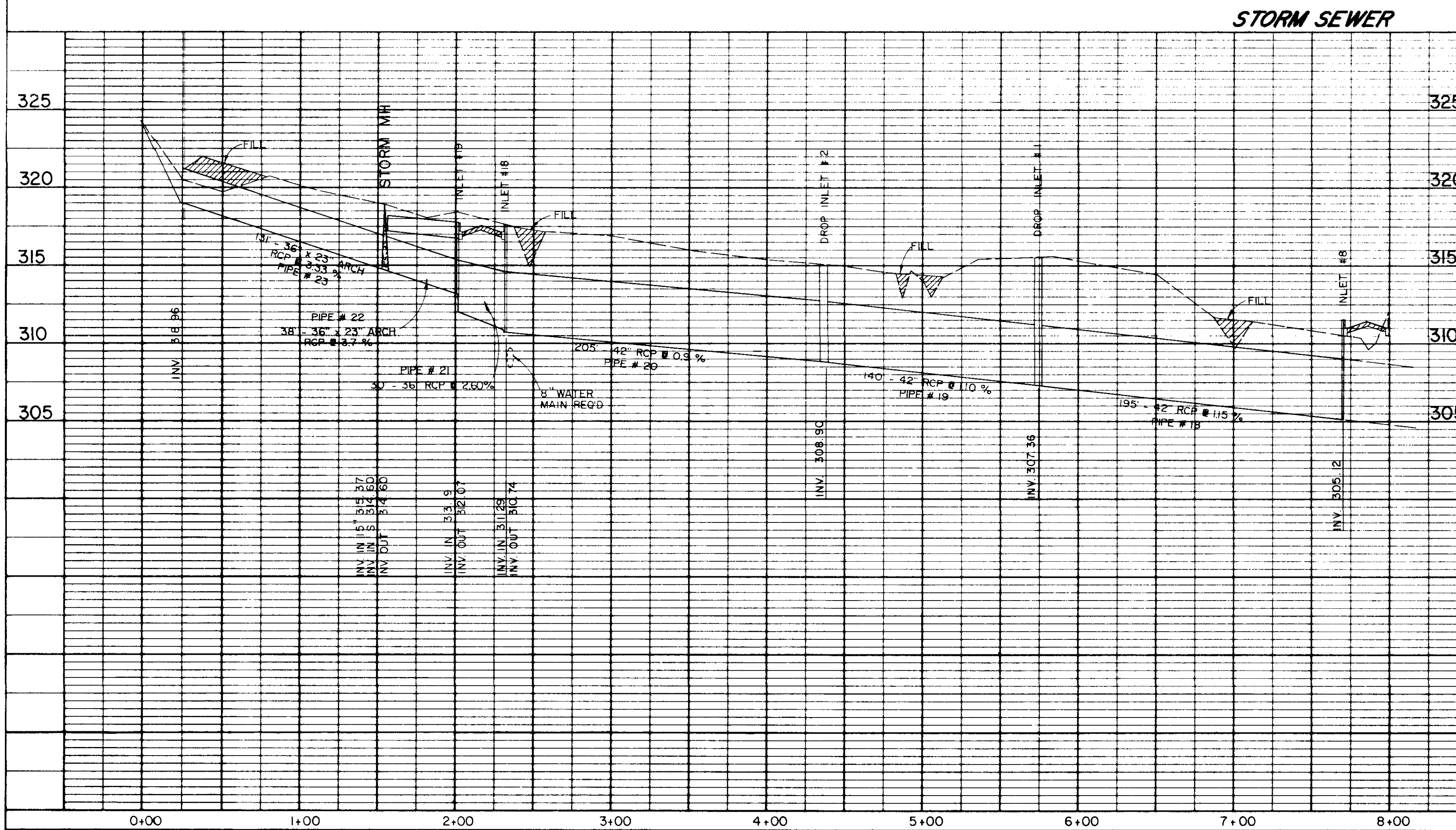
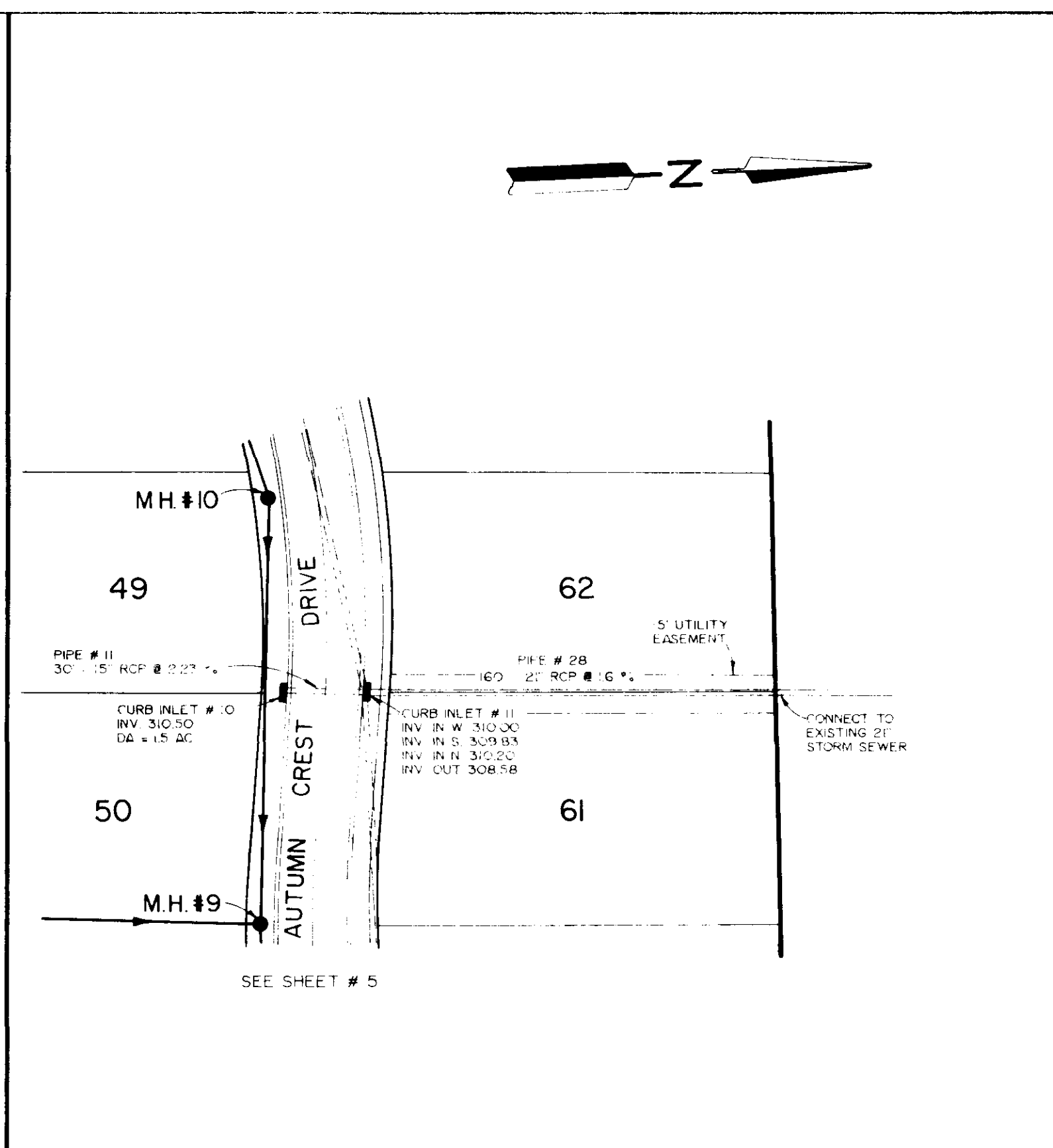
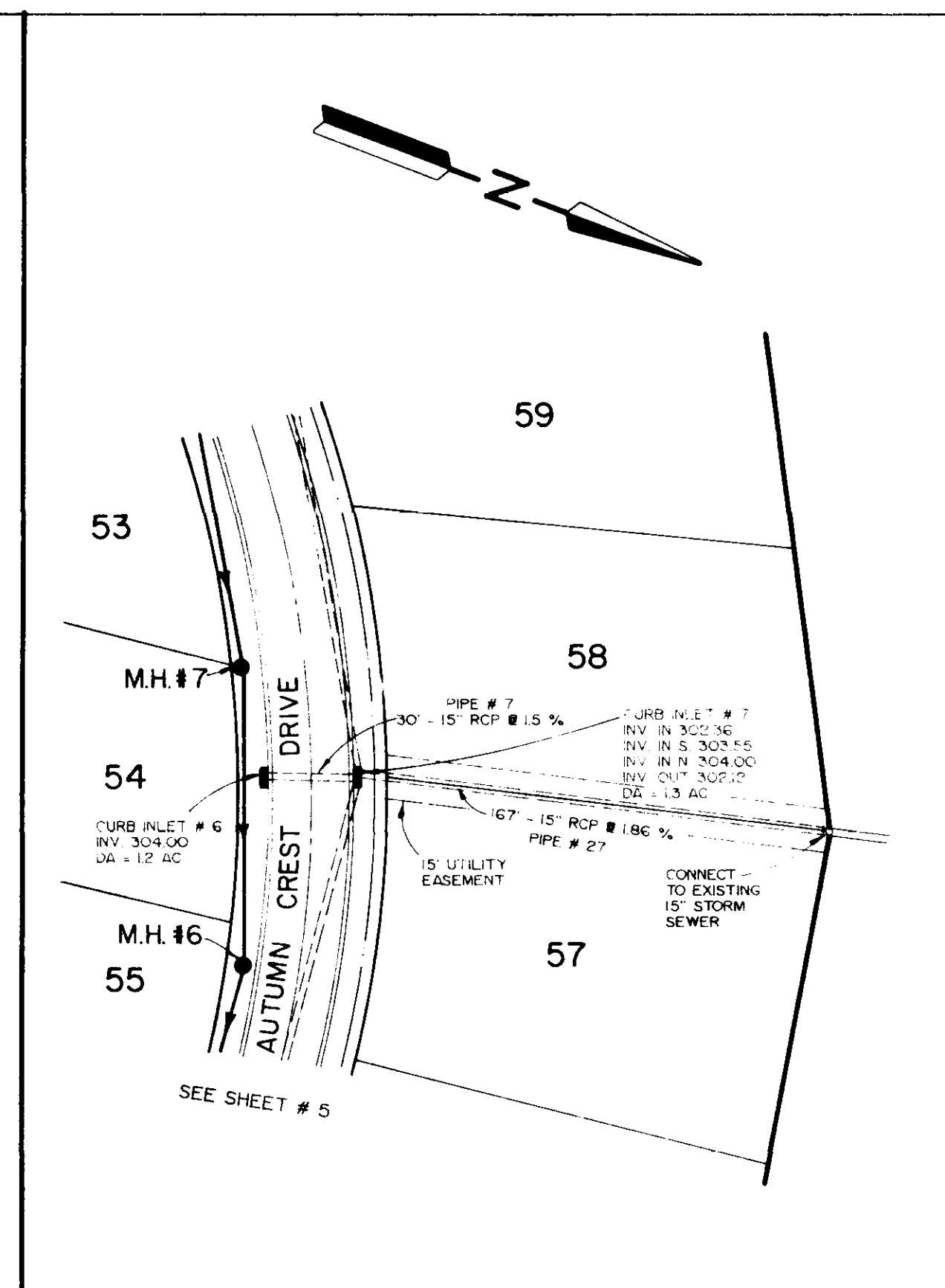
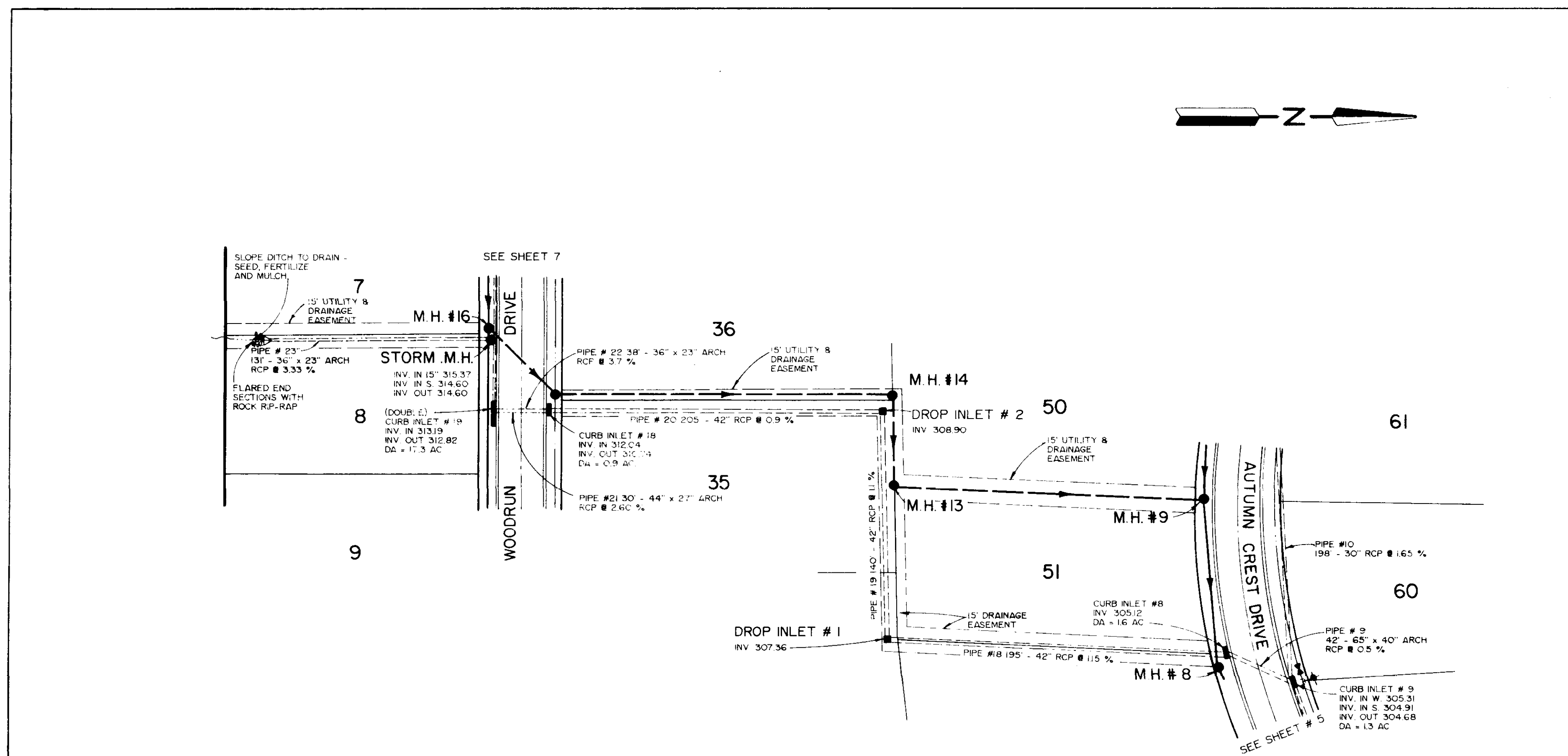
SANITARY SEWER

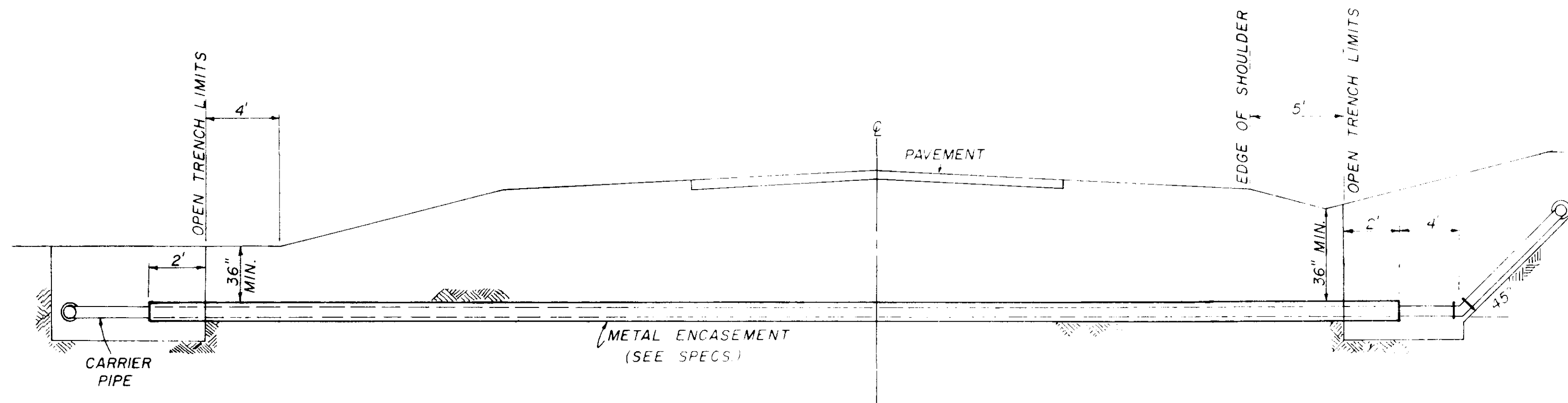
PROFILE	NO.	DATE
NOTE (B)		
ADJUSTMENT CHECKED		
BY		
DATE		



DATE	
BY	
DESIGNED	
CHECKED	
IN CHARGE	
NO.	

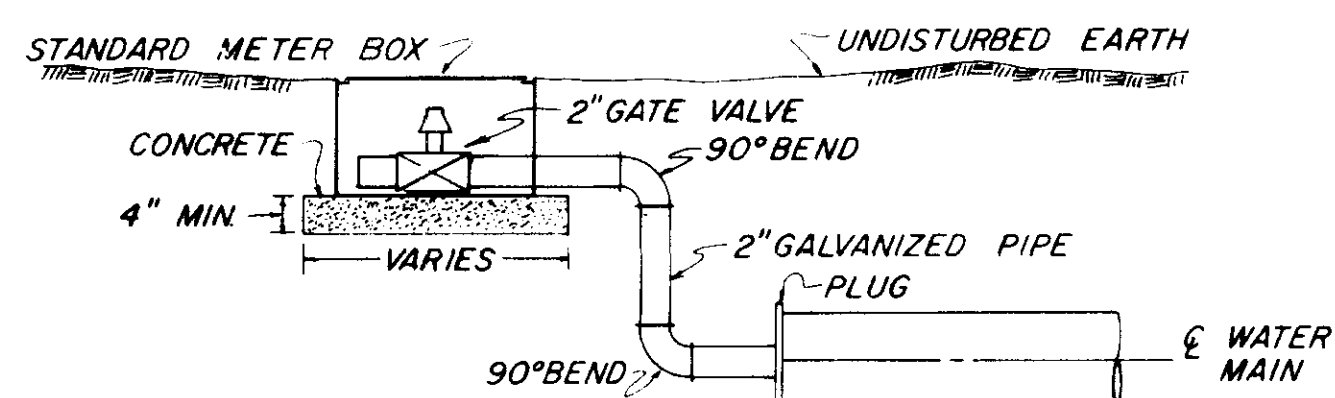
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BY	
DESIGNED	
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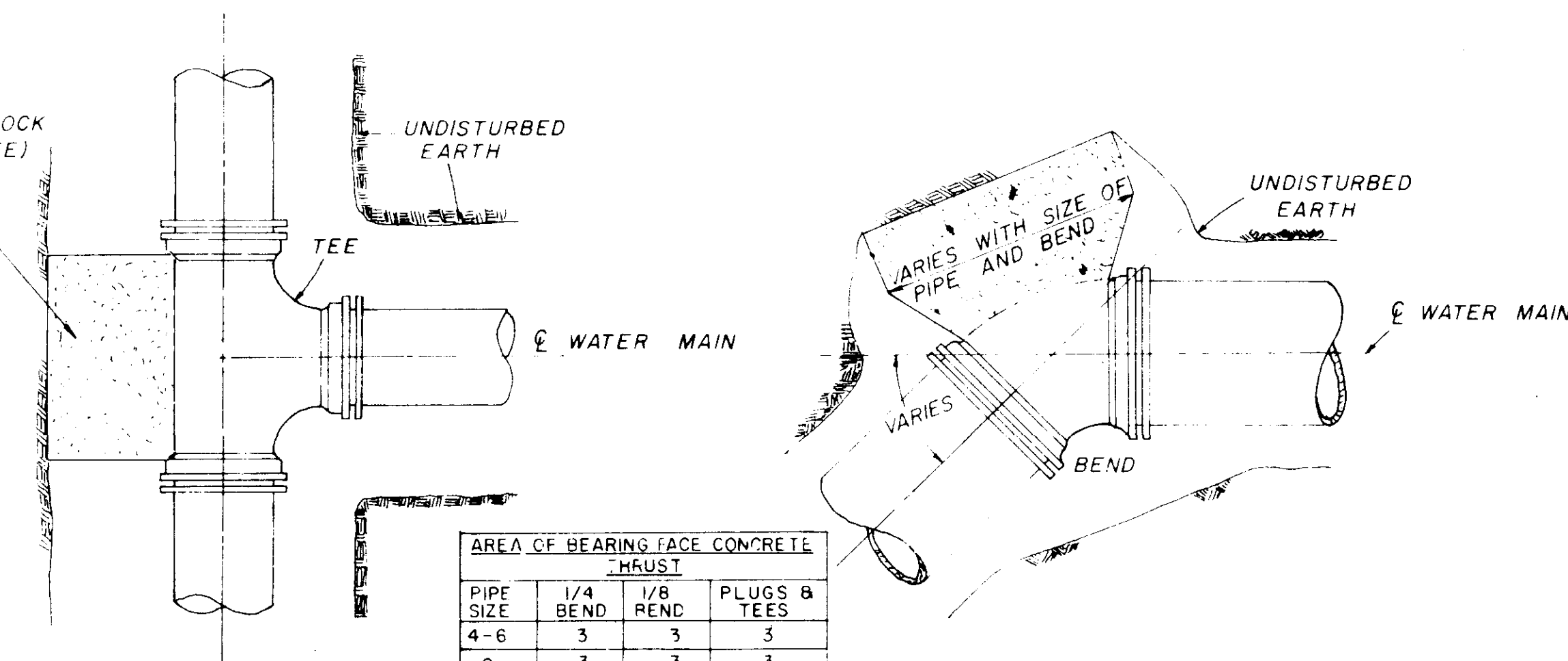


TYPICAL CASED CROSSING

NOTE: COMPENSATION FOR CONCRETE THRUST BLOCKS SHALL BE INCLUDED IN THE UNIT PRICE B/D FOR VALVES, FIRE HYDRANTS AND FITTINGS.



TYPICAL 2" BLOW-OFF DETAIL

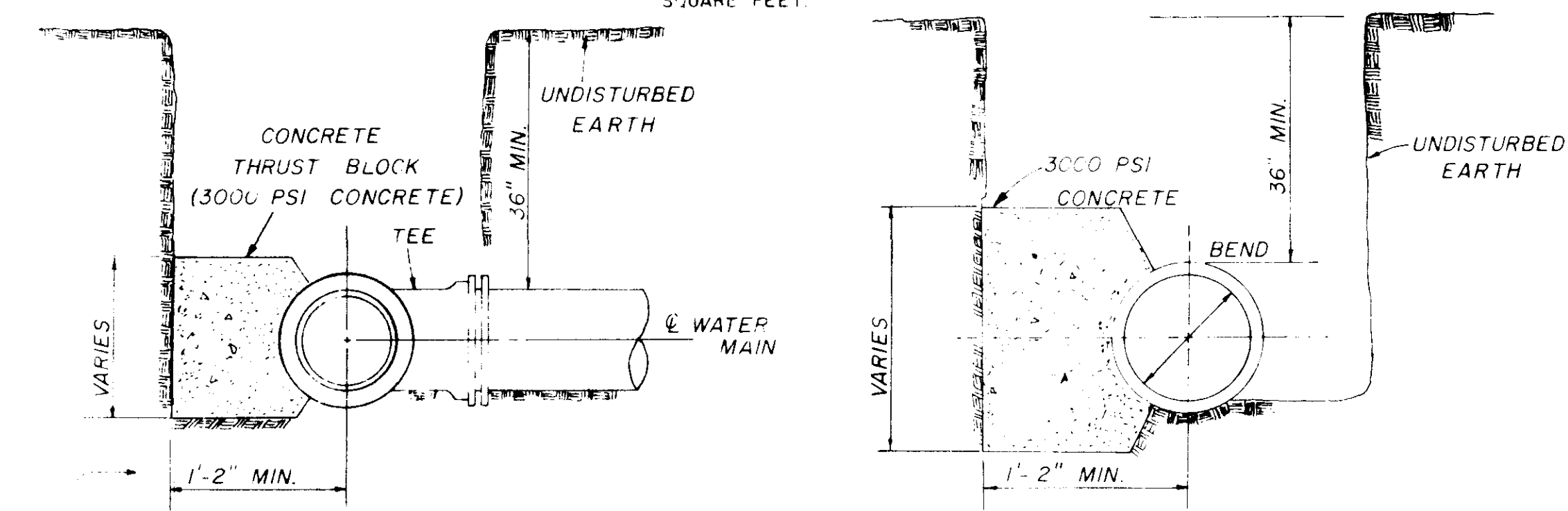


PLAN

PLAN

PIPE SIZE	1/4" BEND	1/8" BEND	PLUGS & TEES
4-6	3	3	3
8	3	3	3
10	4	3	7
12	6	3	4
16	11	4	7

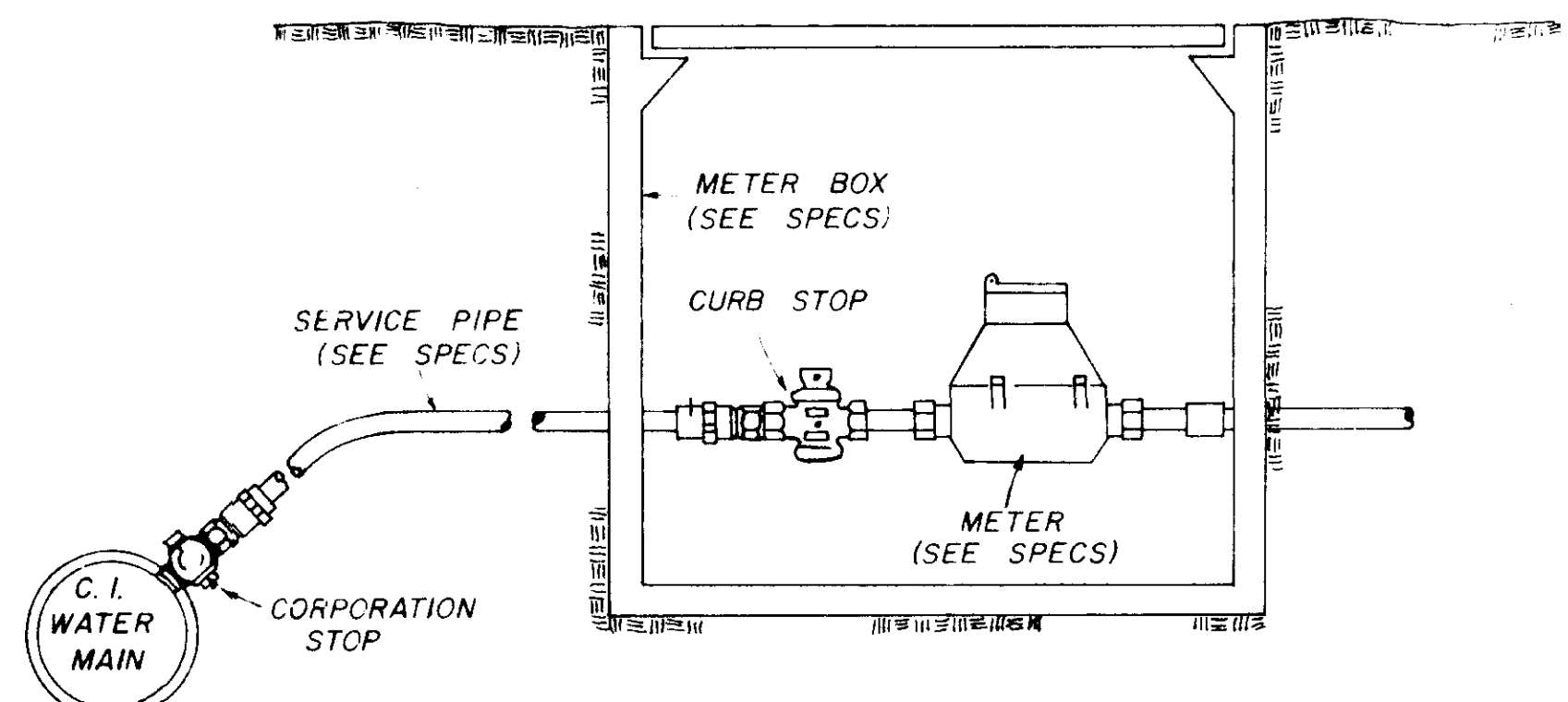
NOTE: AREA OF BEARING FACE IN SQUARE FEET



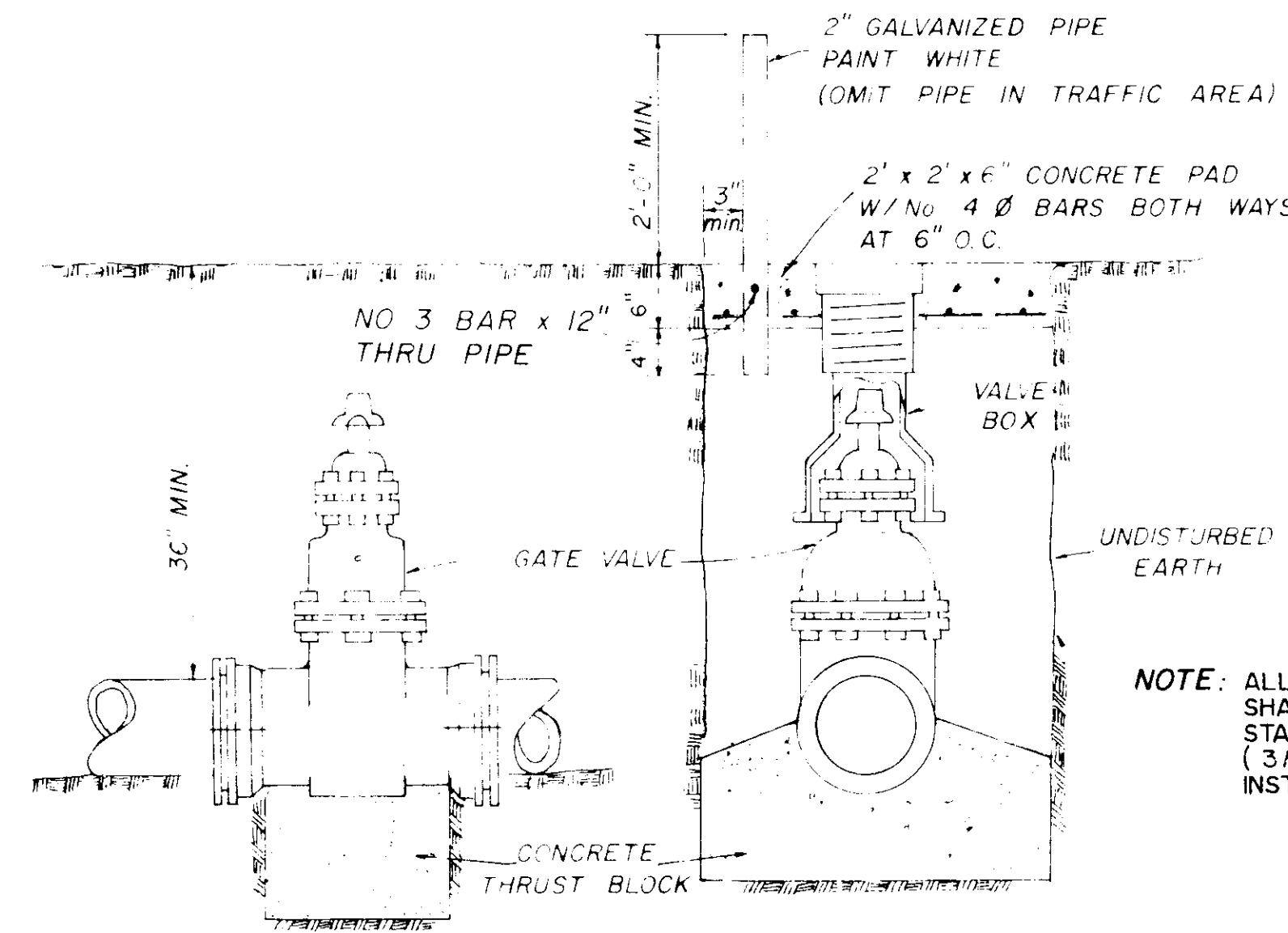
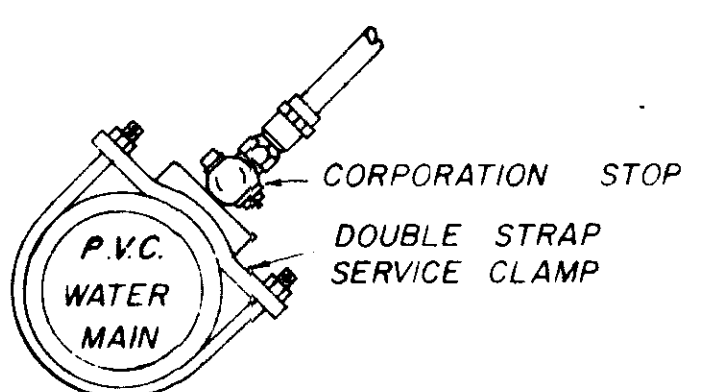
SECTION

SECTION

BLOCKING DETAILS FOR TEES & BENDS



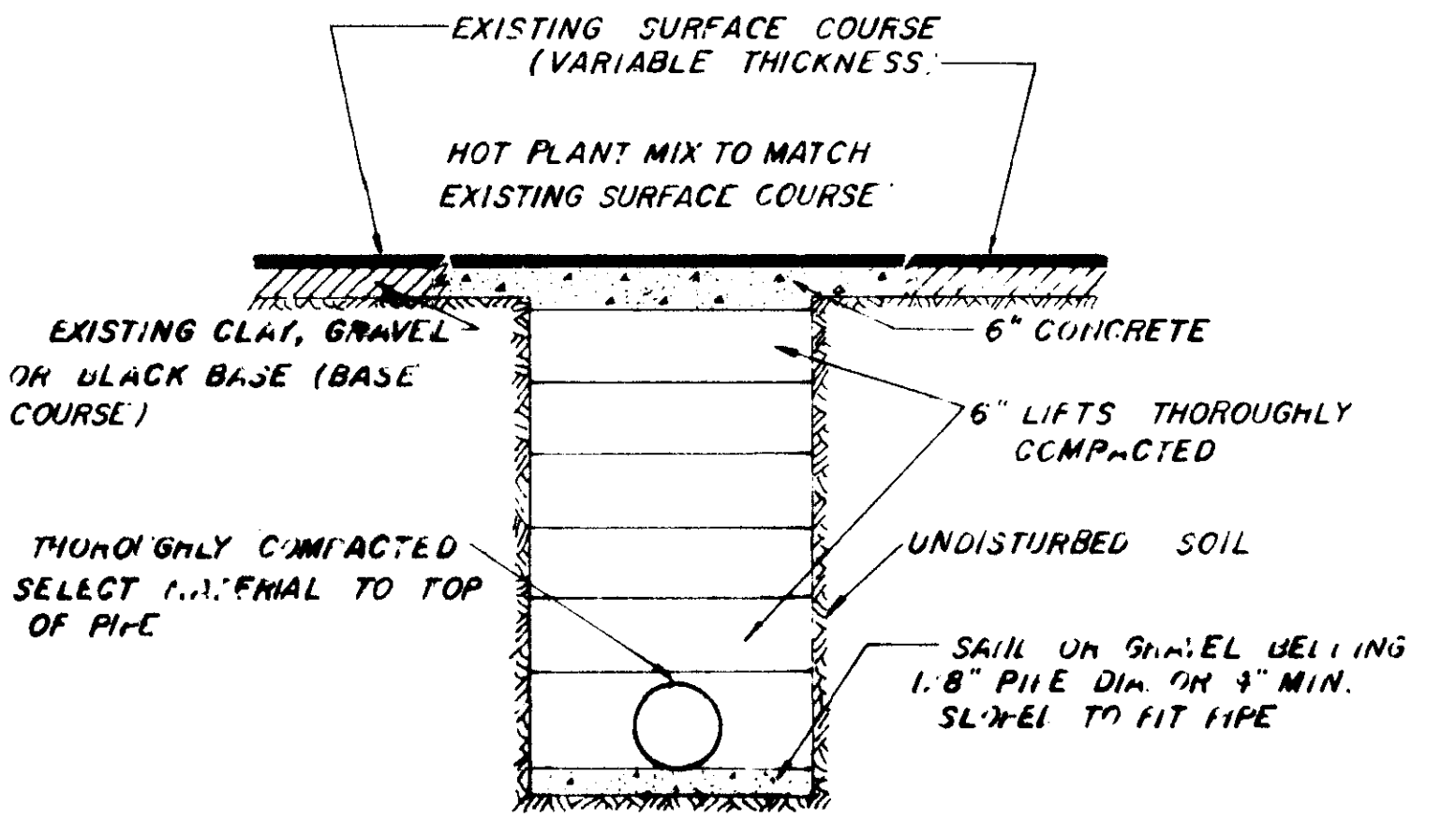
TYPICAL SERVICE ASSEMBLY



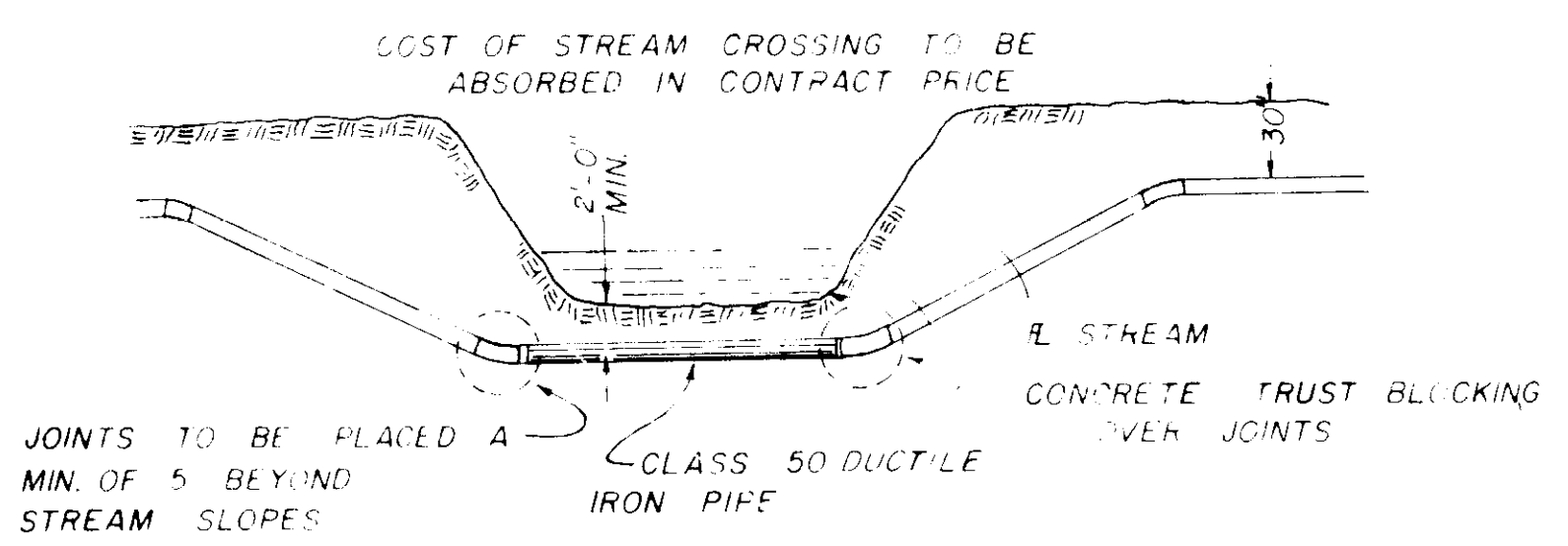
ELEVATION SECTION

TYPICAL VALVE & BOX

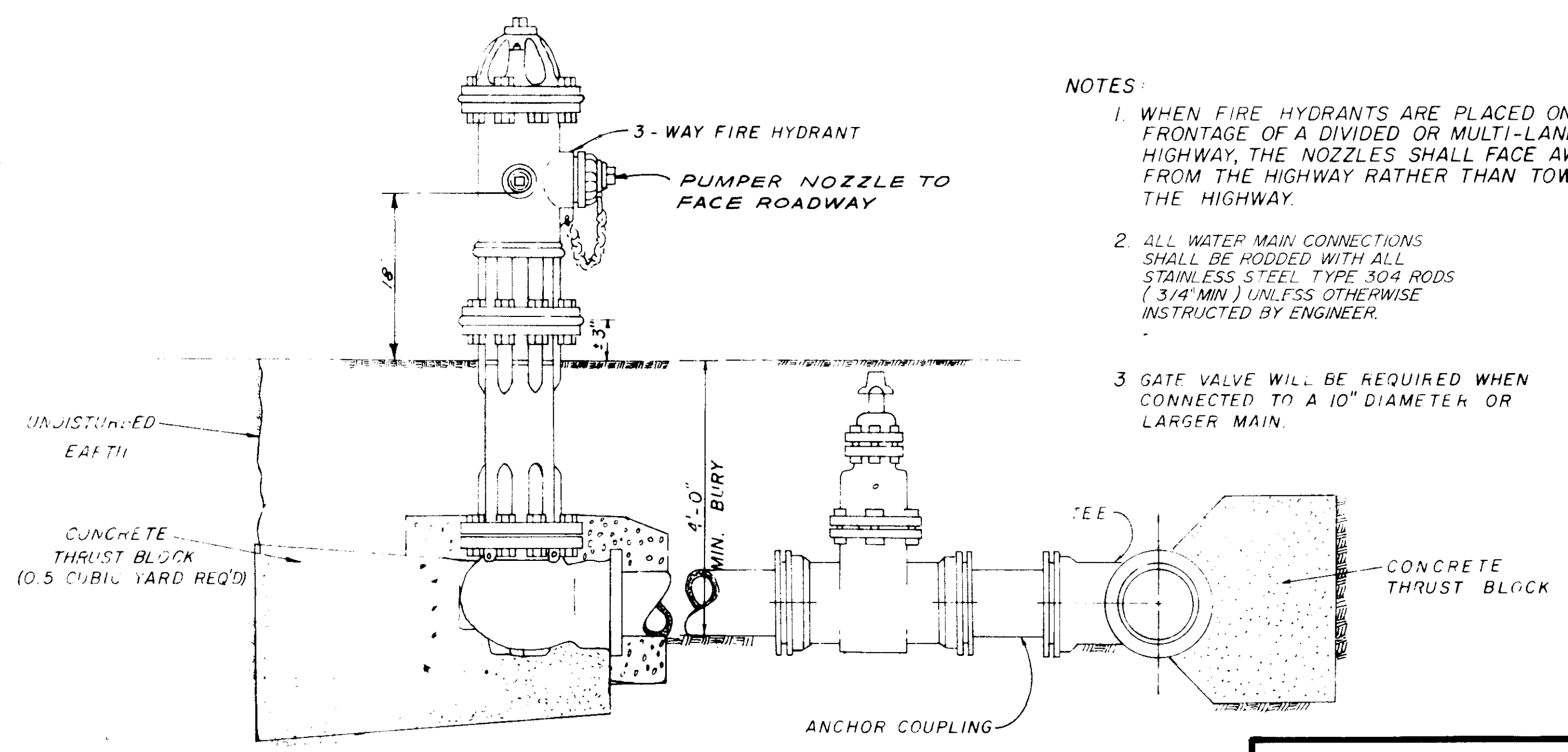
NOTE: ALL WATER MAIN CONNECTIONS SHALL BE RODDED WITH ALL STAINLESS STEEL TYPE 304 RODS (3/4" MIN) UNLESS OTHERWISE INSTRUCTED BY ENGINEER.



STREET REPAIR OF OPEN CUT



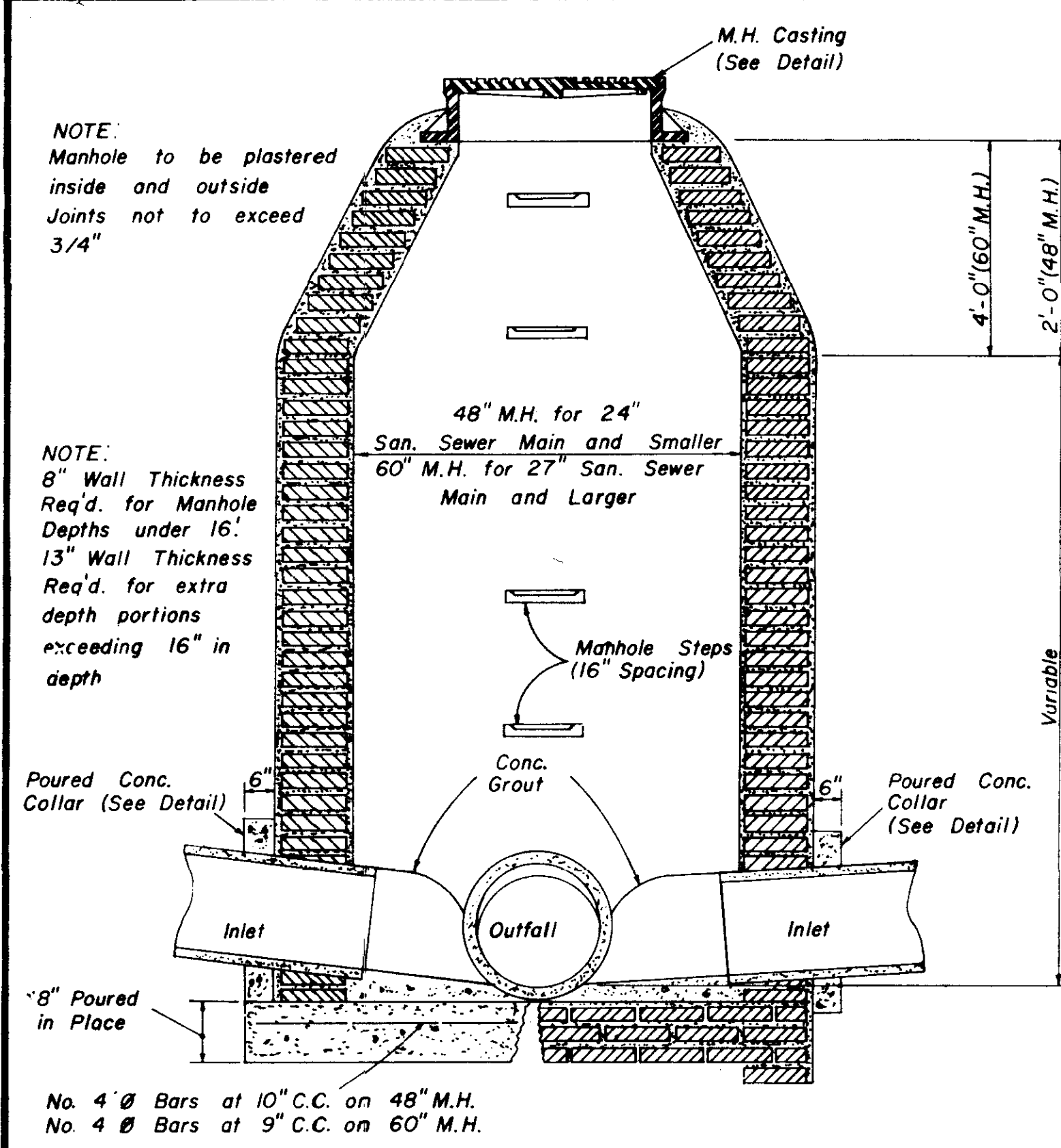
TYPICAL STREAM CROSSING



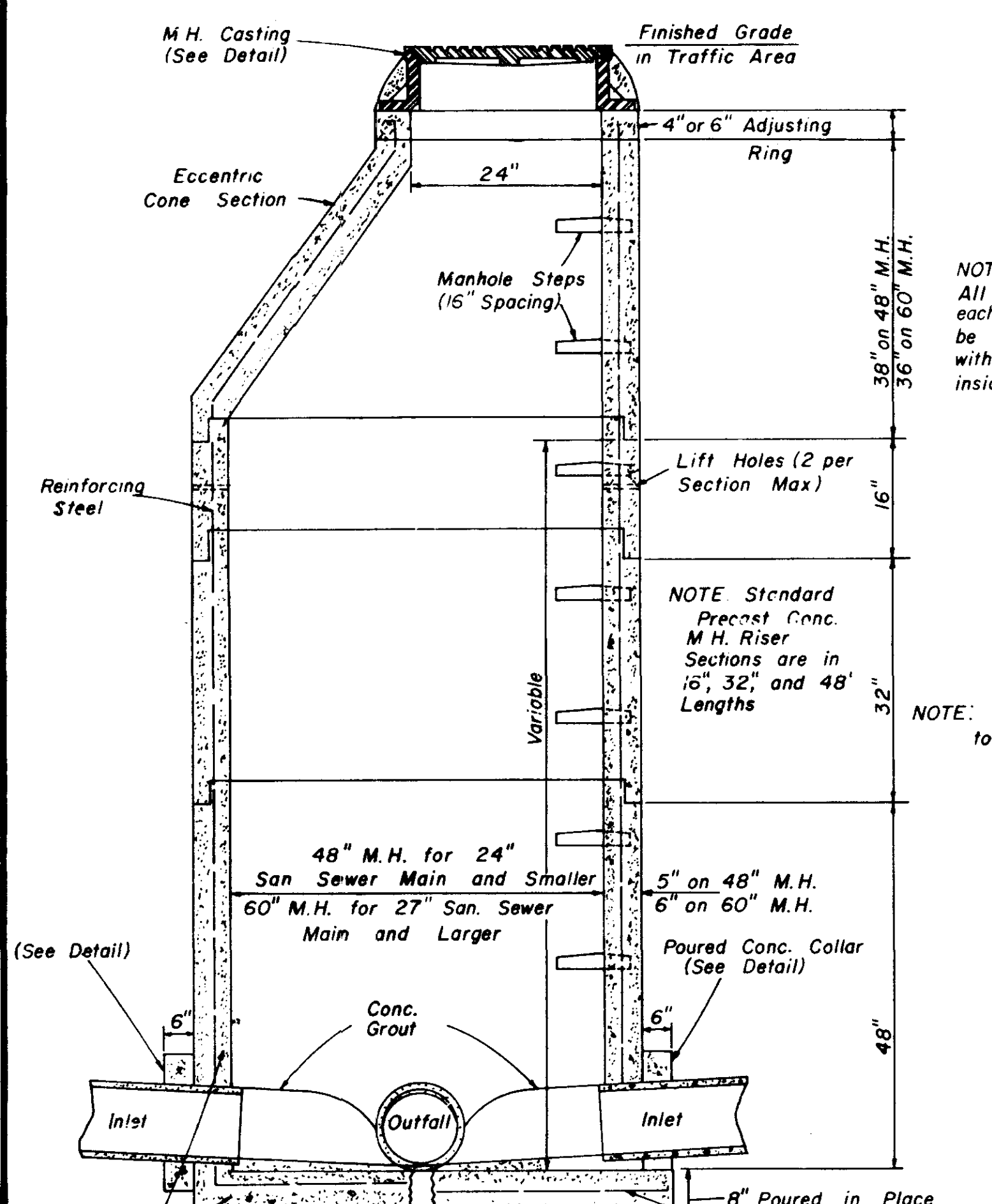
TYPICAL FIRE HYDRANT

- NOTES:
1. WHEN FIRE HYDRANTS ARE PLACED ON THE FRONTAGE OF A DIVIDED OR MULTI-LANE HIGHWAY, THE NOZZLES SHALL FACE AWAY FROM THE HIGHWAY RATHER THAN TOWARD THE HIGHWAY.
 2. ALL WATER MAIN CONNECTIONS SHALL BE RODDED WITH ALL STAINLESS STEEL TYPE 304 RODS (3/4" MIN) UNLESS OTHERWISE INSTRUCTED BY ENGINEER.
 3. GATE VALVE WILL BE REQUIRED WHEN CONNECTED TO A 10" DIAMETER OR LARGER MAIN.

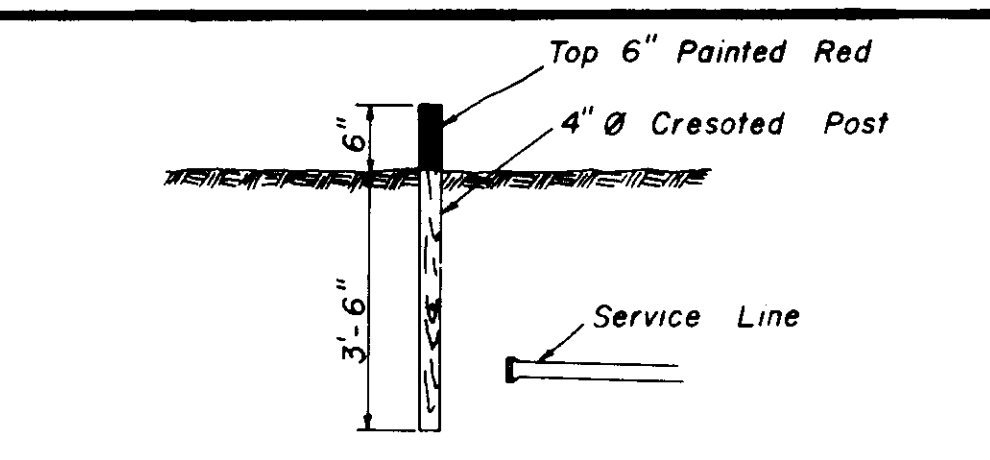
WATER SYSTEM STANDARD DETAILS



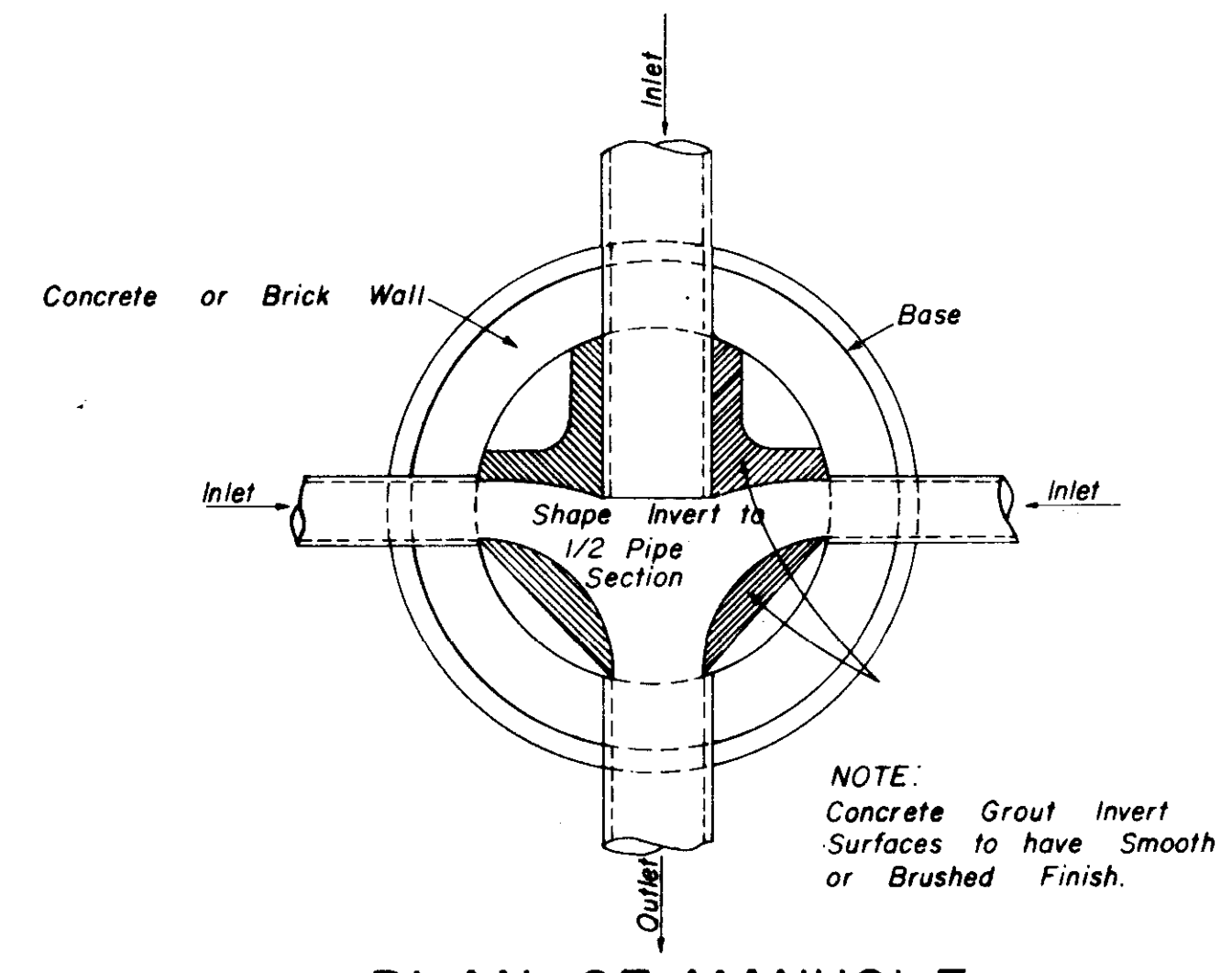
**SECTION
STANDARD BRICK MANHOLE**



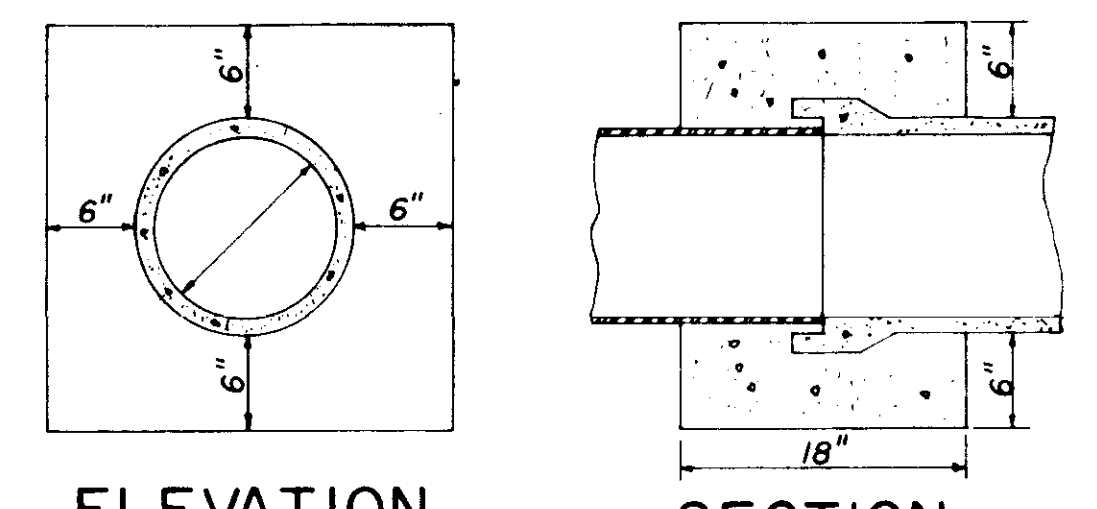
**SECTION
PRECAST CONCRETE MANHOLE**



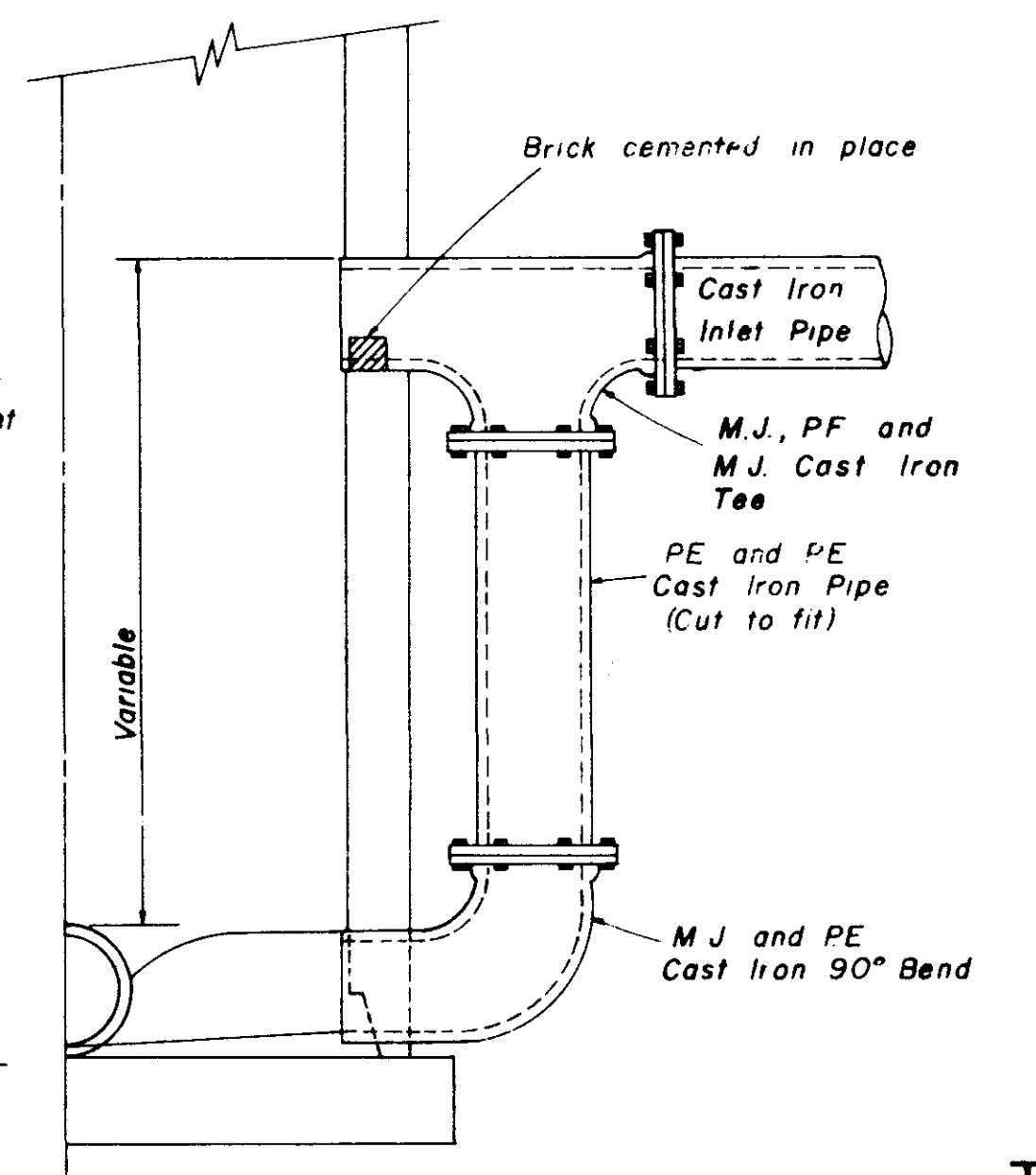
SEWER SERVICE MARKER



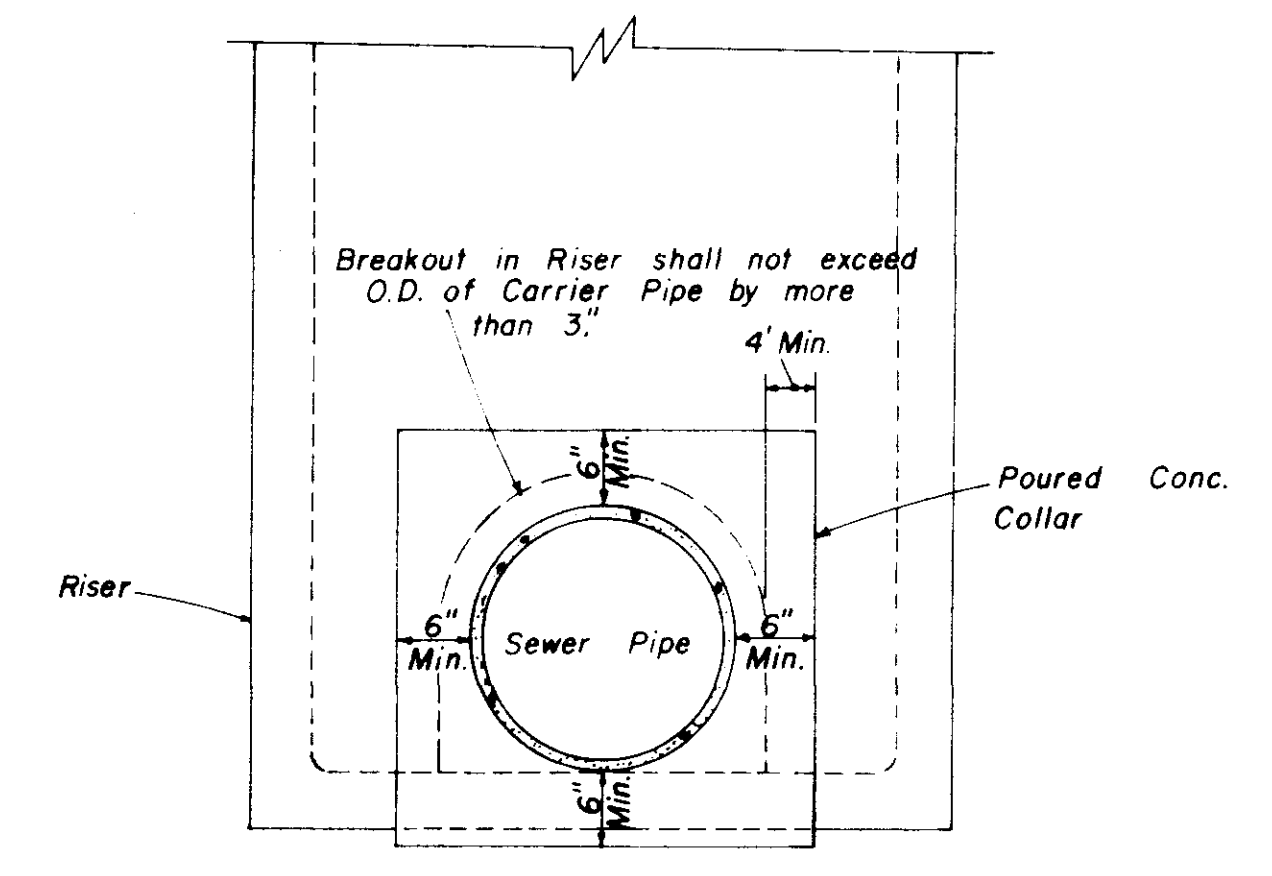
**PLAN OF MANHOLE
FLOW CHANNELS**



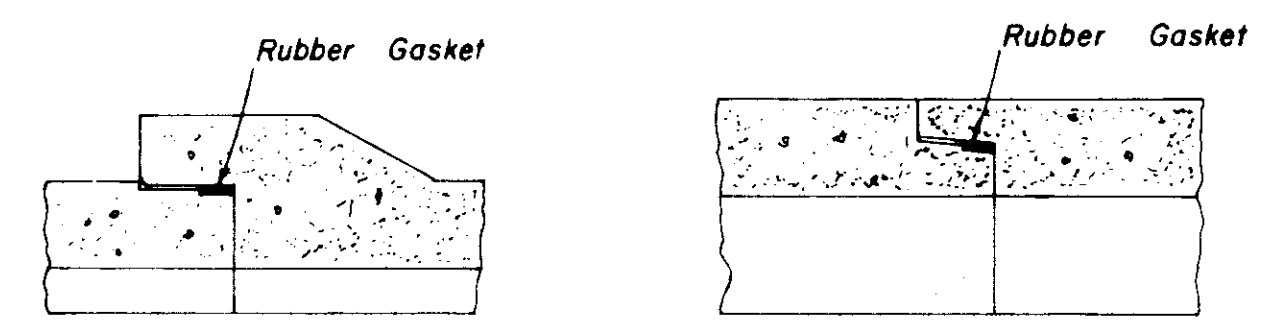
**ELEVATION SECTION
CONCRETE COLLAR DETAILS**



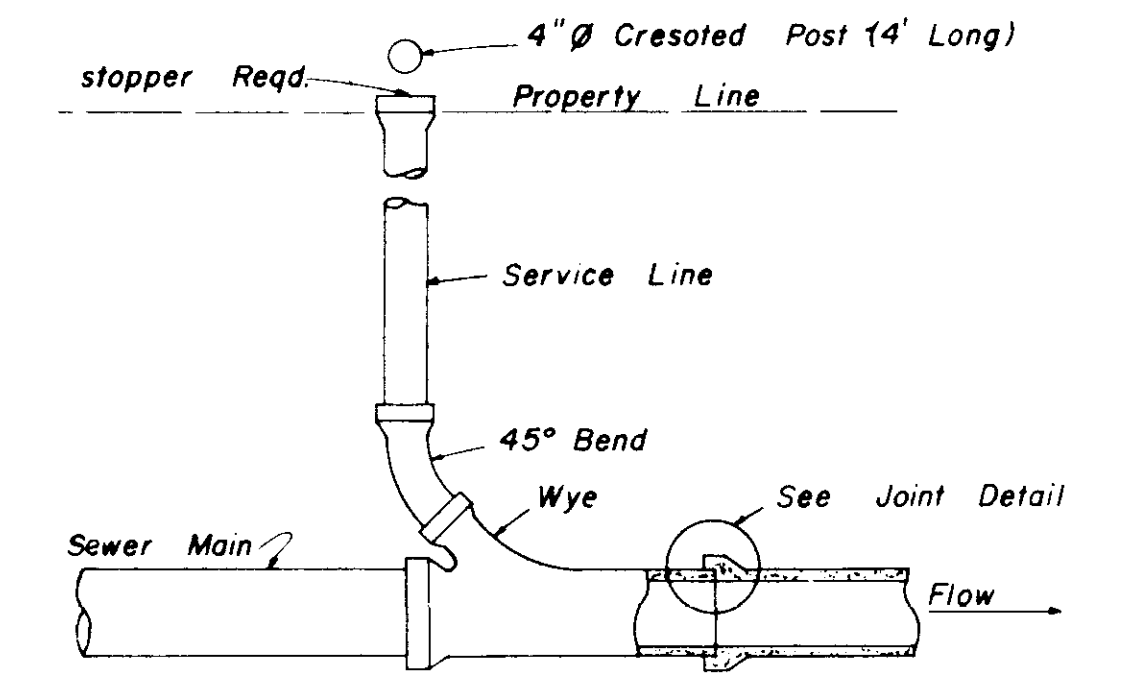
**HALF SECTION
MANHOLE WITH DROP CONNECTION**



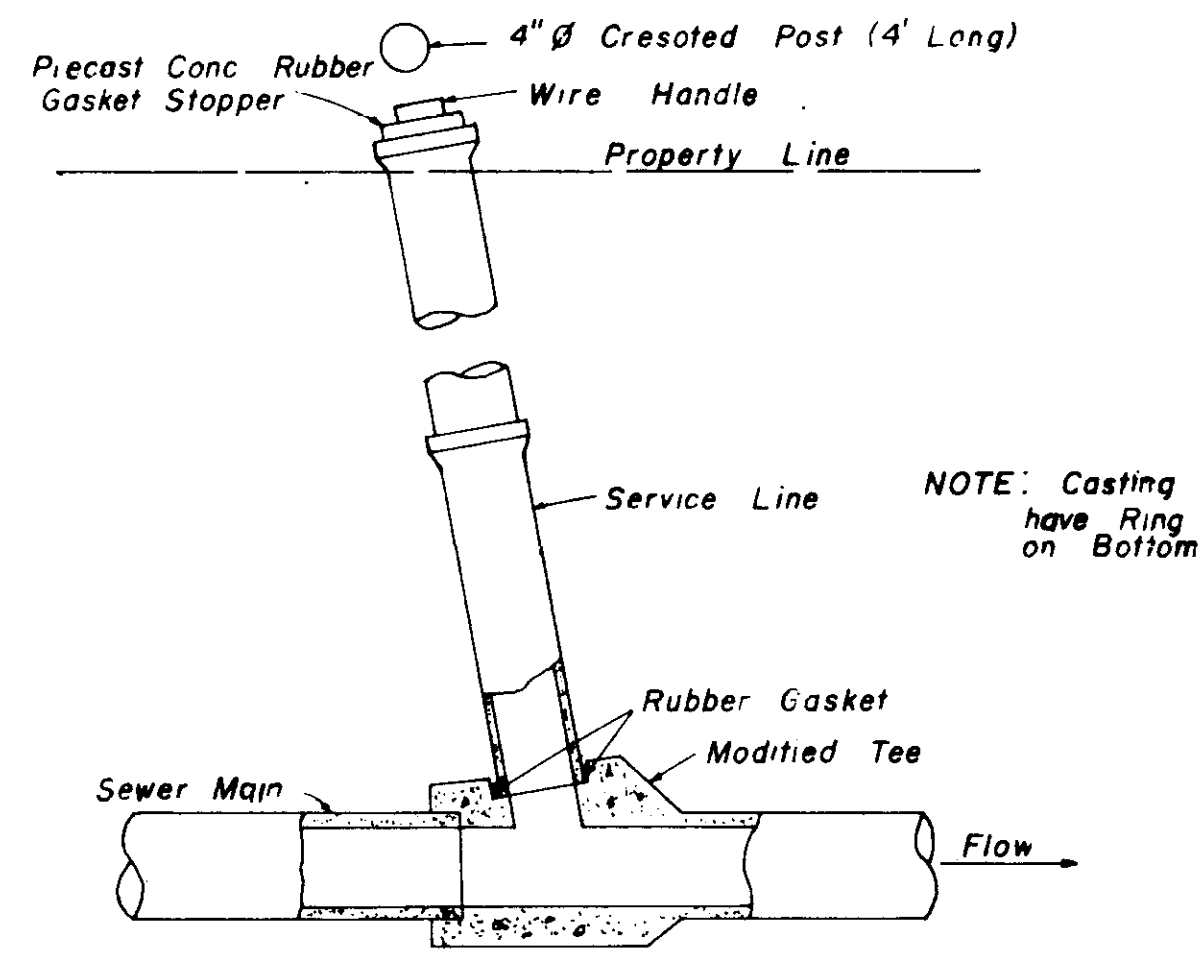
**ELEVATION
CONCRETE COLLAR AT
MANHOLE CONNECTION**



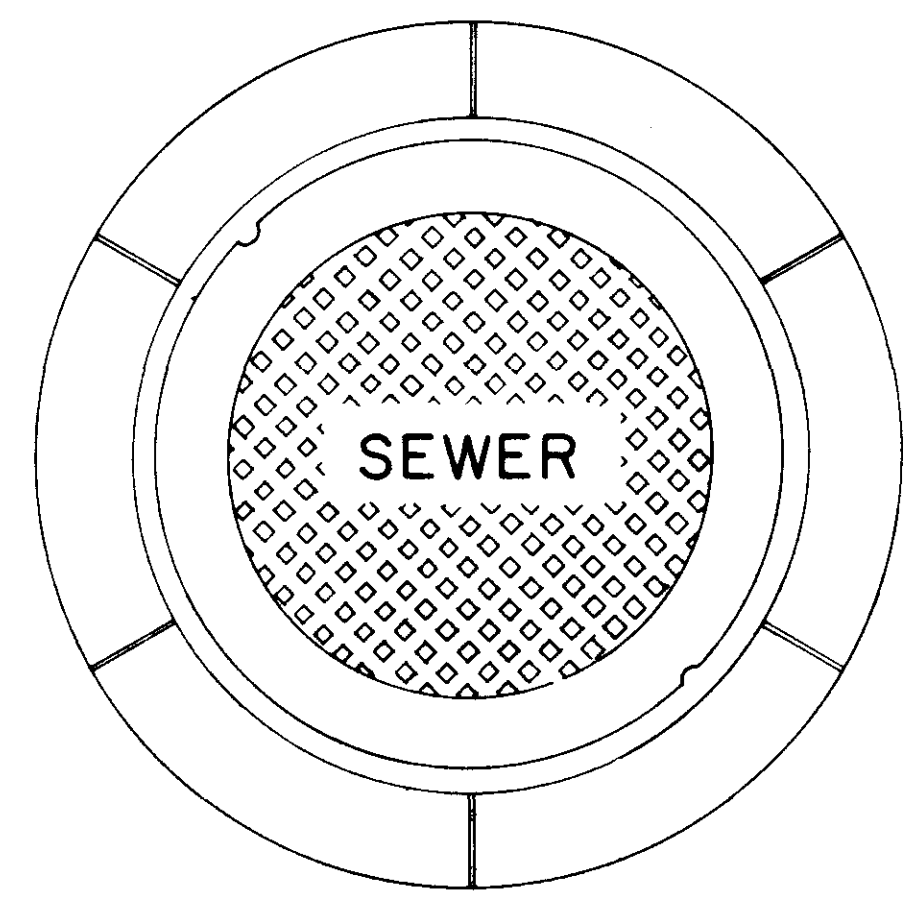
**BELL & SPIGOT TONGUE & GROOVE
JOINT DETAILS**



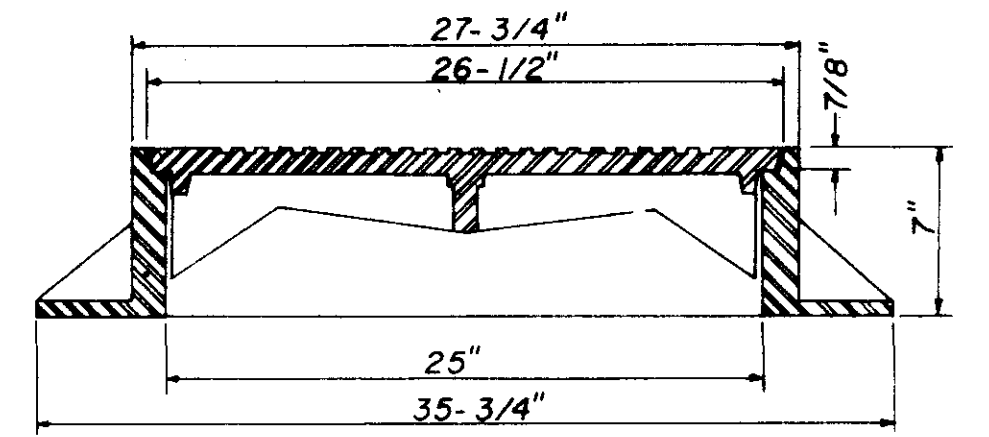
**TYPICAL SERVICE TO PROPERTY LINE
WITH WYE JOINT**



**TYPICAL SERVICE TO PROPERTY LINE
WITH MODIFIED TEE JOINT**

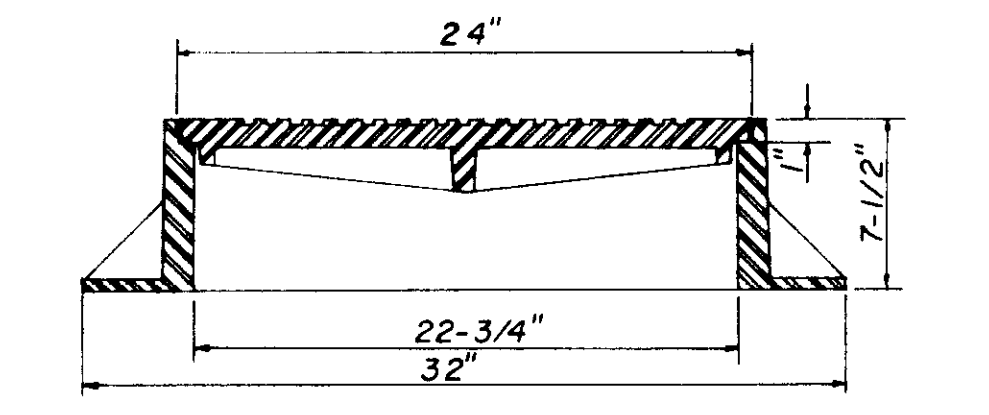


**PLAN
MANHOLE CASTING**



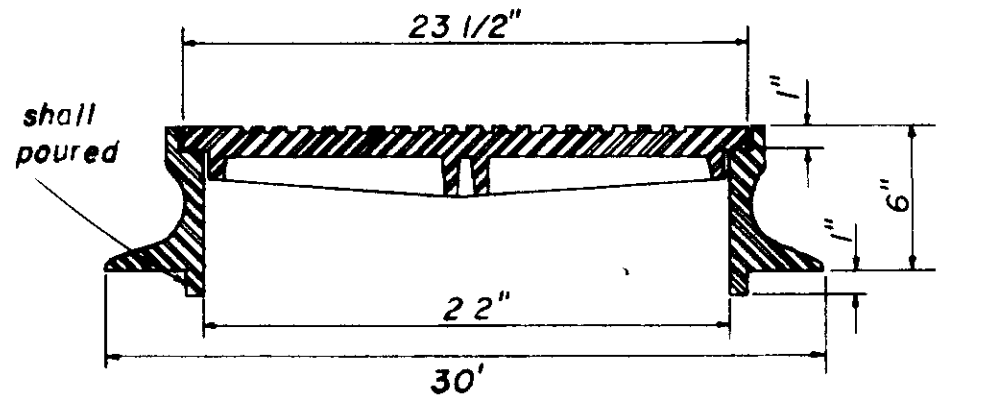
**SECTION
TYPE \"/>**

NOTE: 1. Use Type "A" Manhole Casting in Street R.O.W.
2. Use Harper No. 2, City of Jackson Standard (420 lbs.) or Vulcan No. VM-15, City of Jackson Standard (420 lbs.)



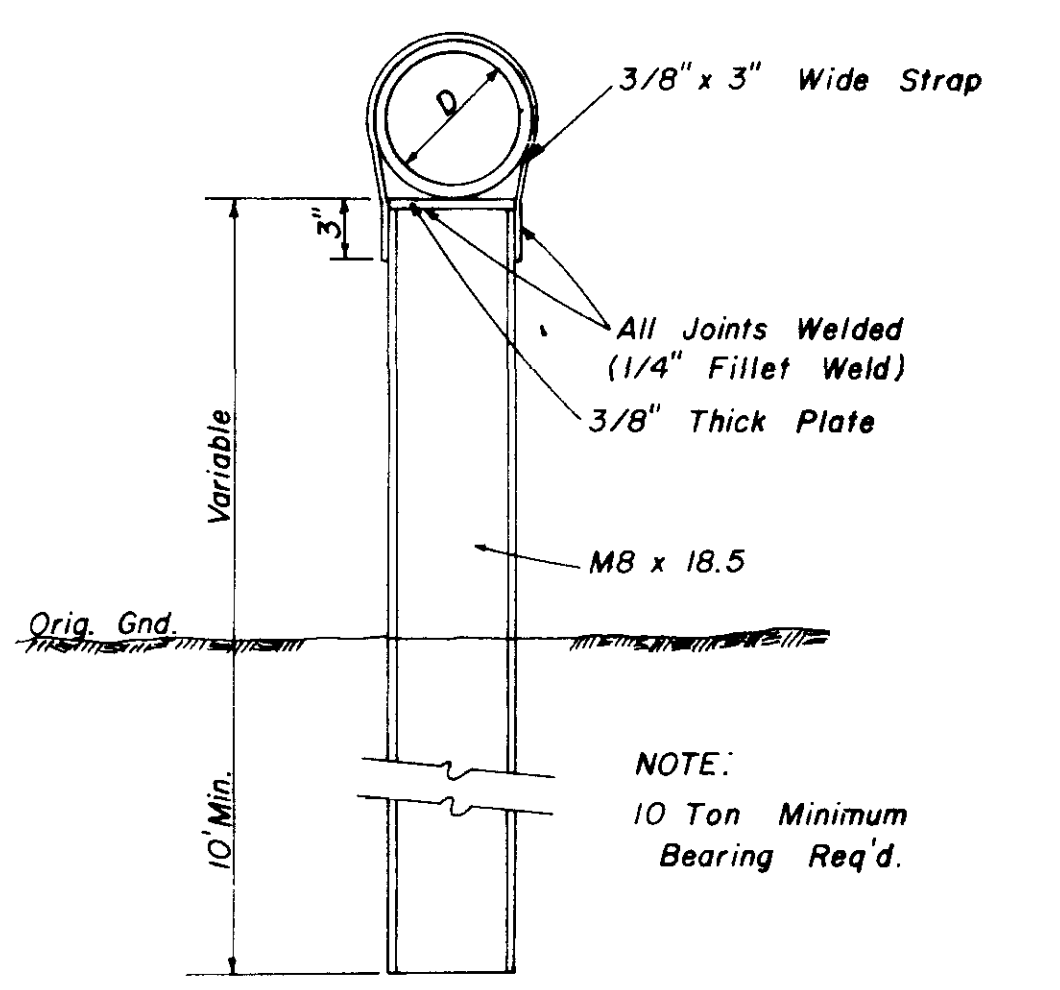
**SECTION
TYPE \"/>**

NOTE: 1. Use Type "B" Manhole Casting for any Manhole not in a Street R.O.W.
2. Use Harper No. 1 (M.S.R.E. Standard) Light Weight (330 lbs.) or Vulcan No. VM-17 (300 lbs.) or Opelika Foundry No. C-2-1 (325 lbs.)

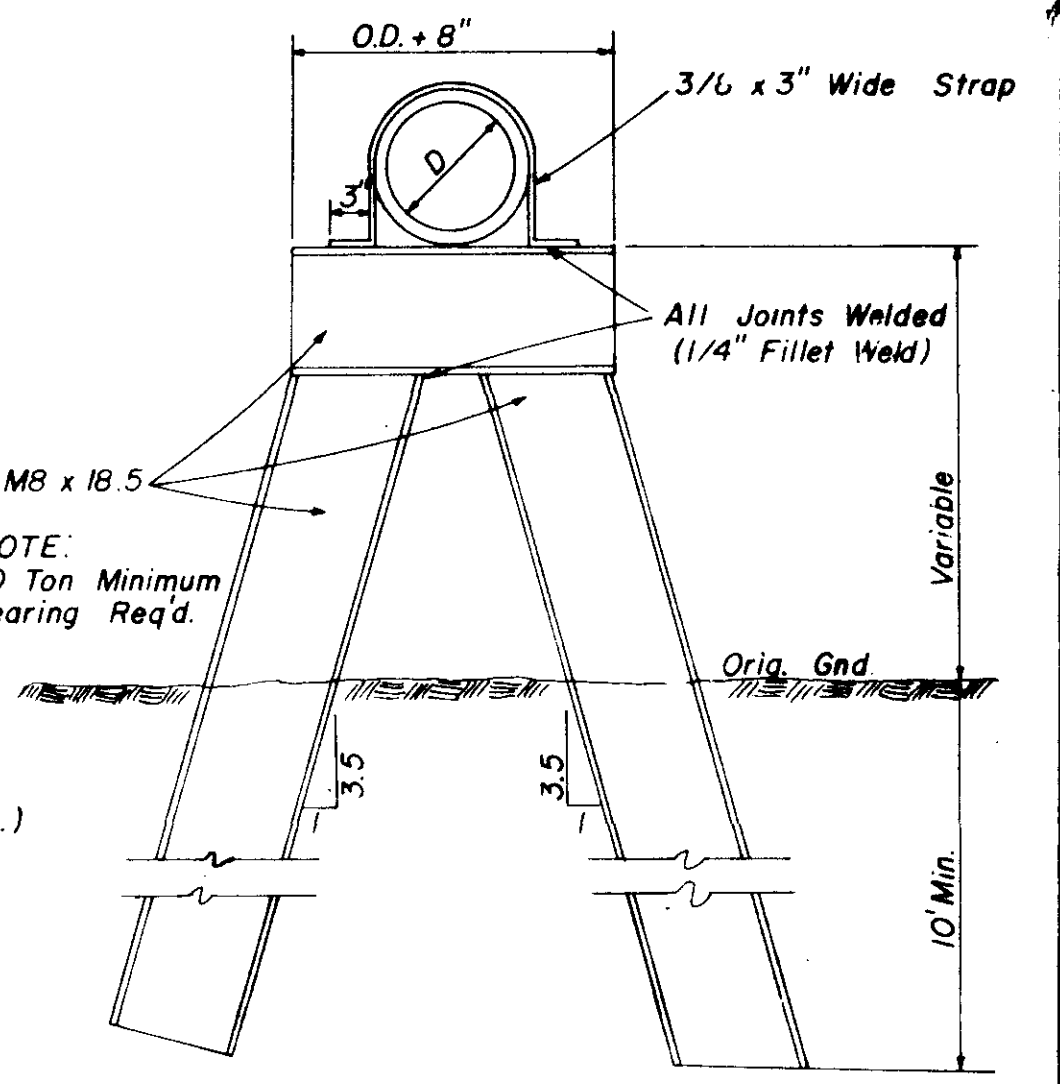


**SECTION
TYPE \"/>**

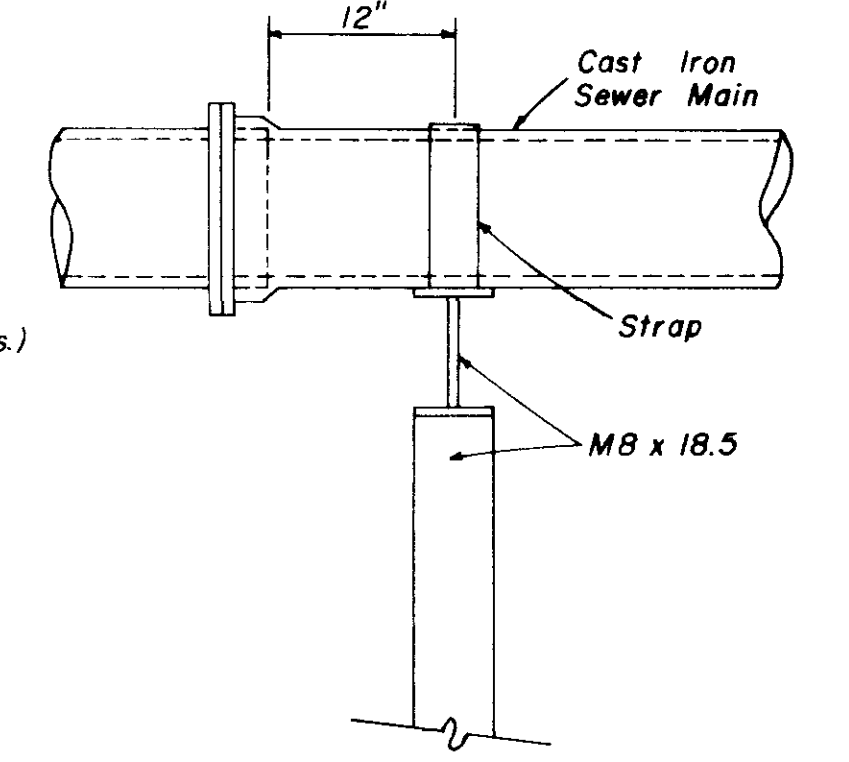
NOTE: 1. Use Type "C" Manhole Casting for Precast Manhole not in a Street R.O.W.
2. Use Harper No. 8 (330 lbs.) or Neenah No. R-1779 (300 lbs.) or Vulcan No. VM-7 (330 lbs.)



**DETAIL
TYPE \"/>**

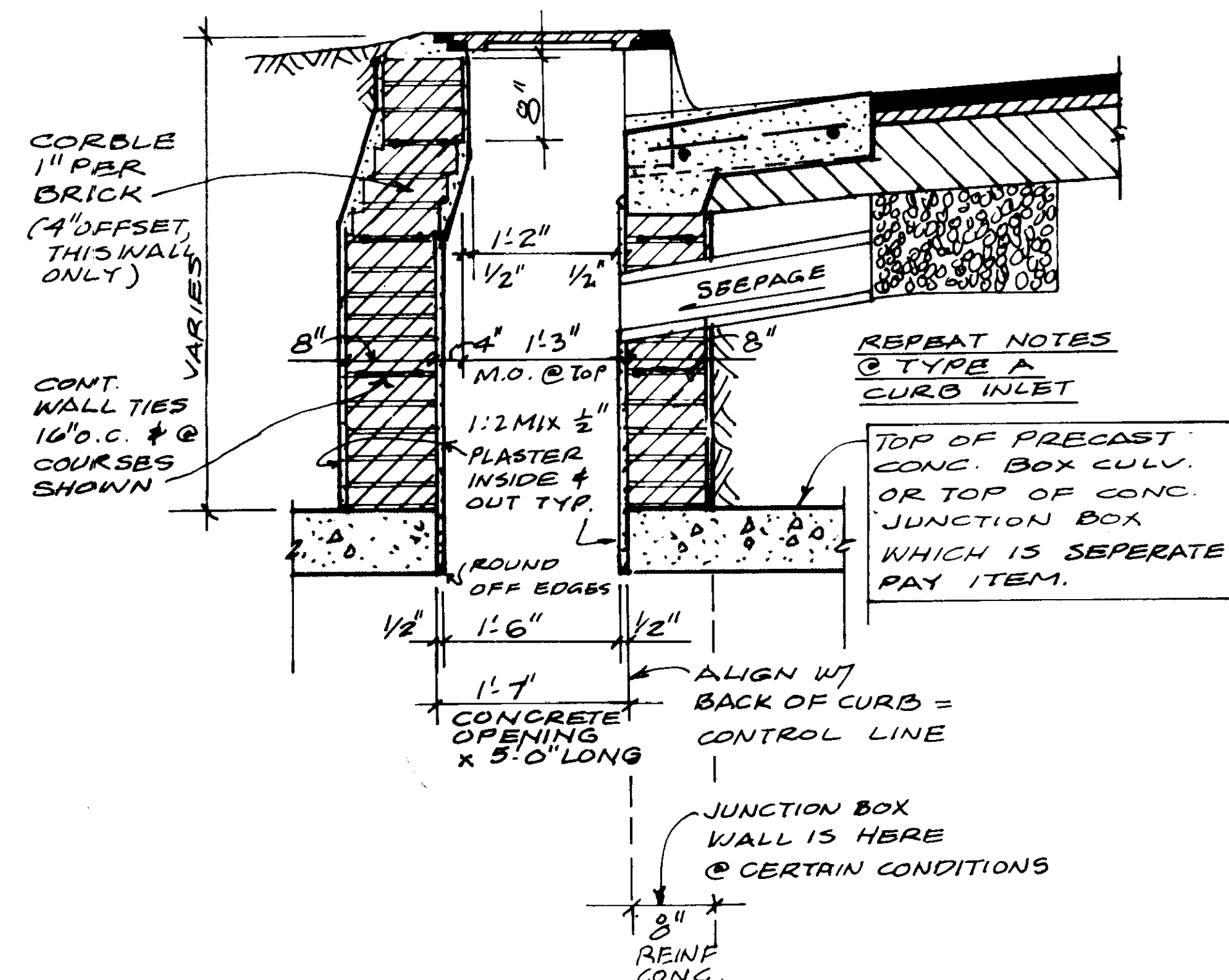


**DETAIL
TYPE \"/>**

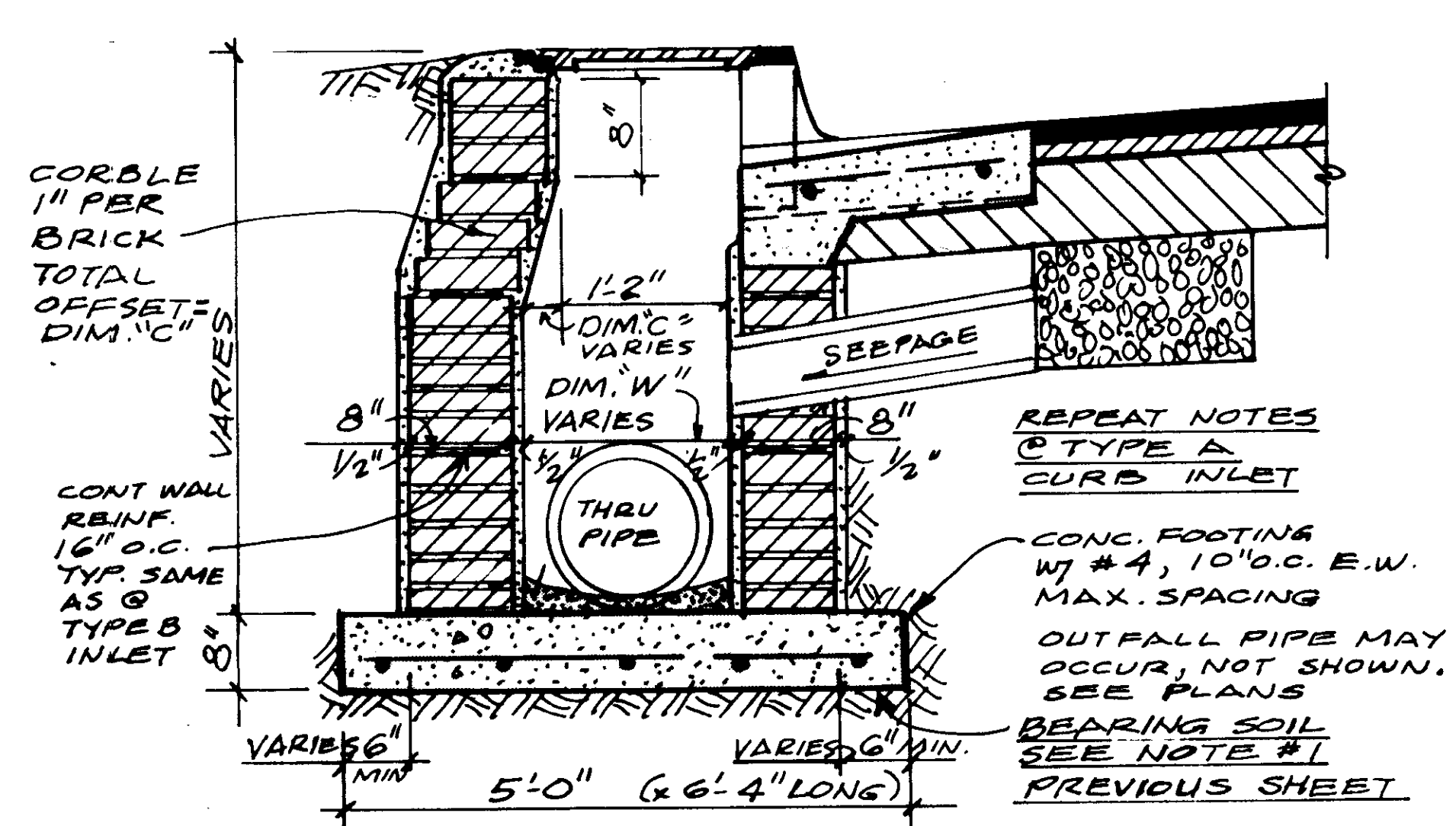


**SIDE ELEVATION
TYPE \"/>**

**SANITARY SEWER
STANDARD DETAILS**



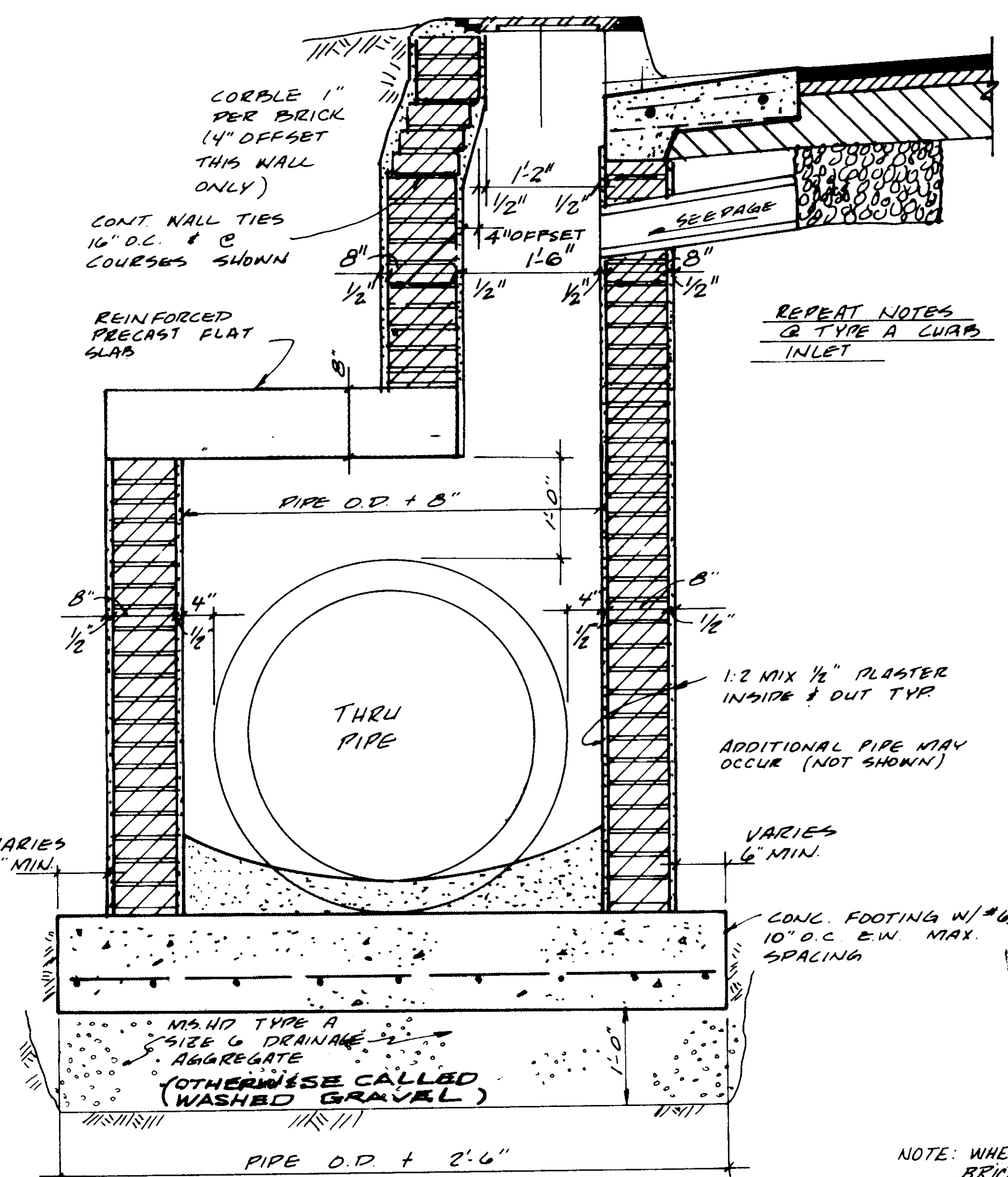
CURB INLET TYPE B
SCALE: 1" = 1'-0"



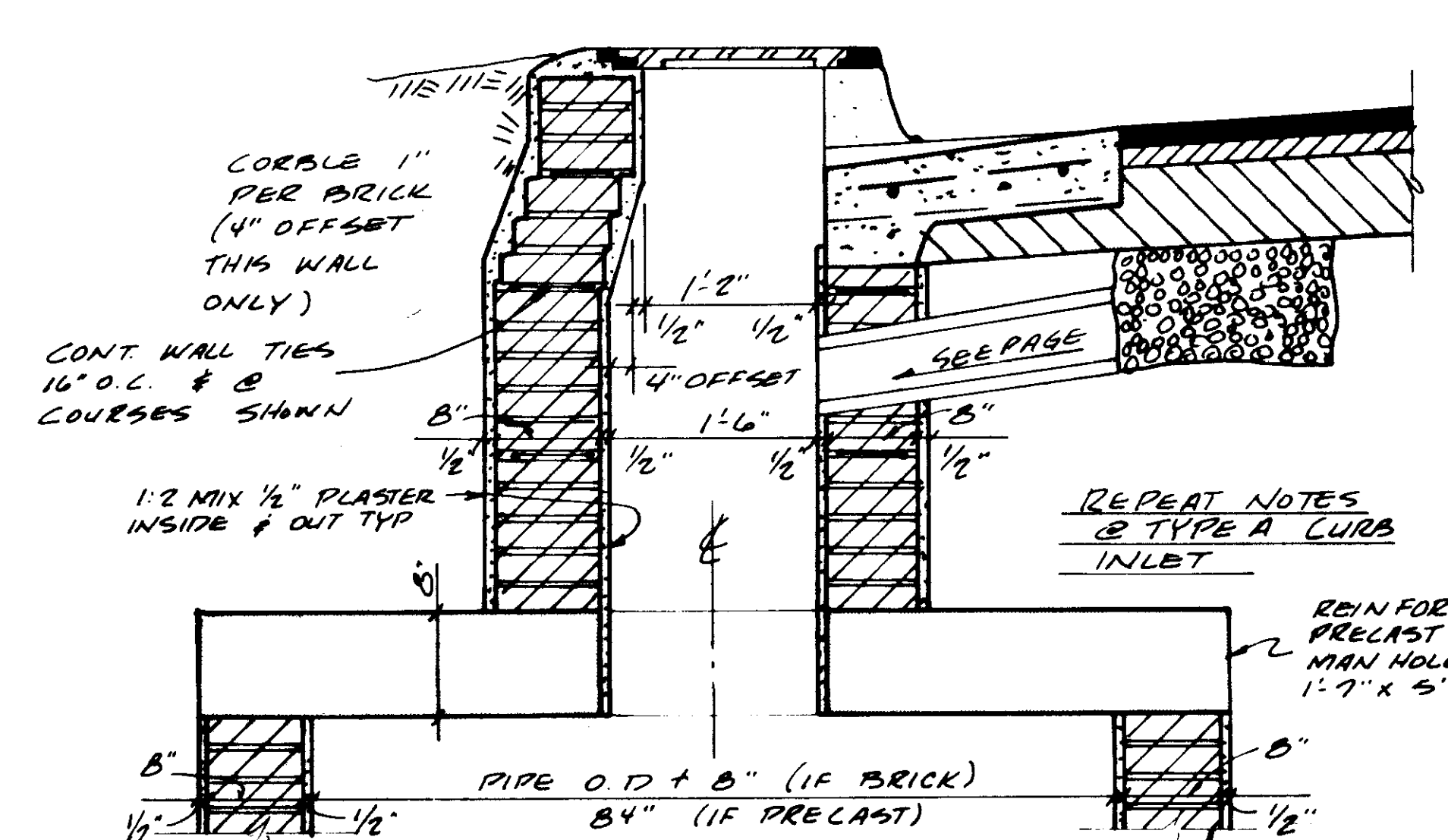
PIPE I.D. *	DIM. "W" PLASTER TO PLAST. FINISHED WIDTH	DIM. "C" CORBEL OFFSET	NOTES FOR CORBELS
15"	2'-1"	1 1/2"	11 BRICK @ 1" CORBEL EA.
18"	2'-5"	1'-2"	14 BRICK @ 1" CORBEL EACH
21"	2'-7"	1'-5"	17 BRICK @ 1" CORBEL EACH

* LARGEST PIPE @ INLET

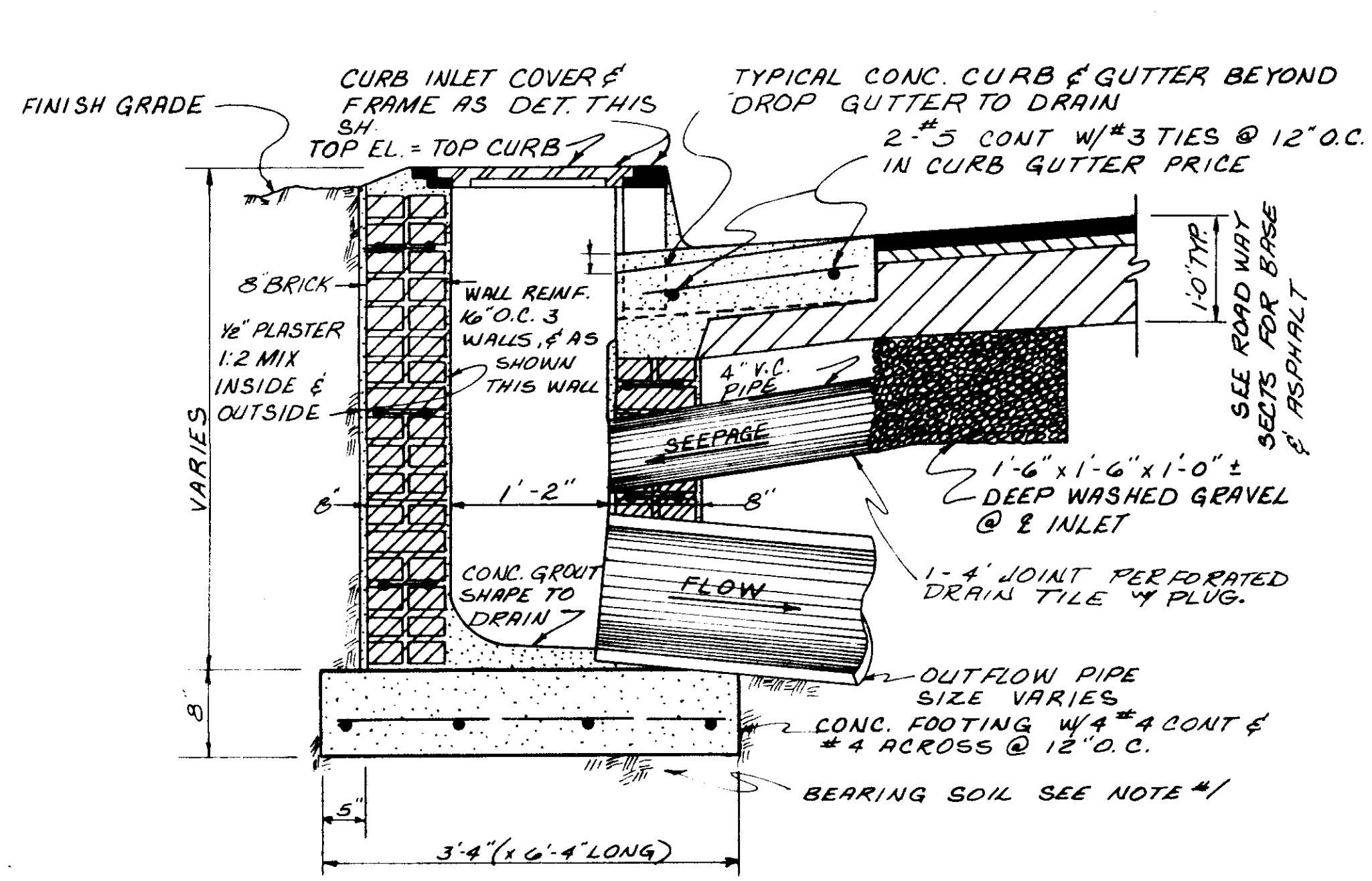
CURB INLET TYPE C
SCALE: 1" = 1'-0" (FOR THRU PIPES 15", 18" OR 21" DIA.)



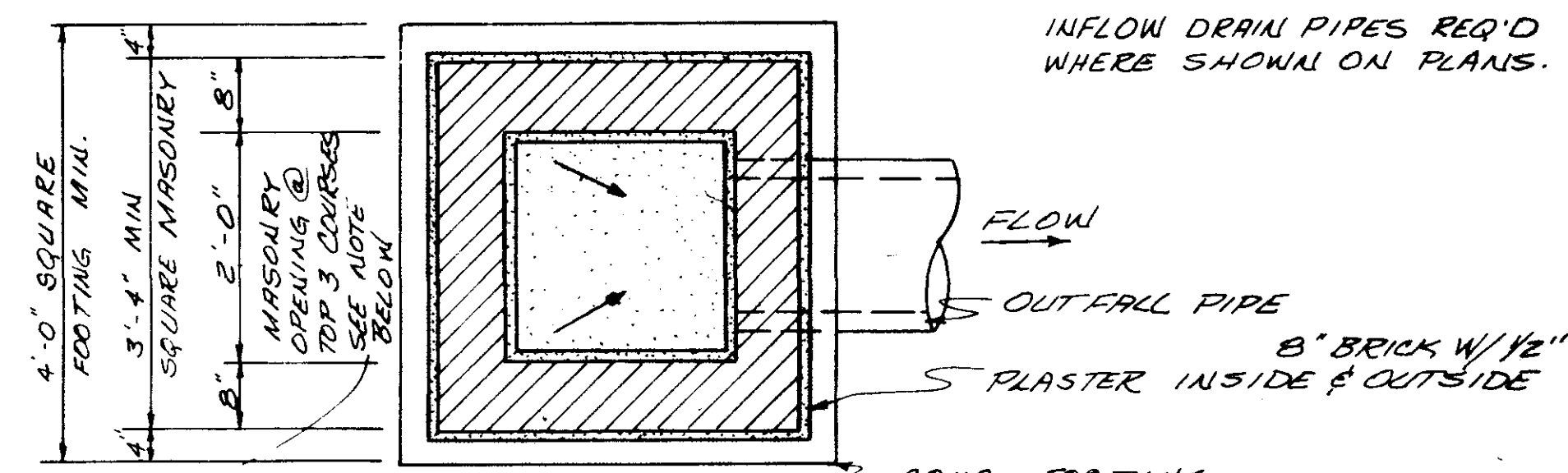
CURB INLET TYPE D
SCALE: 1" = 1'-0" (FOR THRU PIPES 24" & TO 36" &)



CURB INLET TYPE E
SCALE: 1" = 1'-0" (FOR THRU PIPES 42" & AND UP)

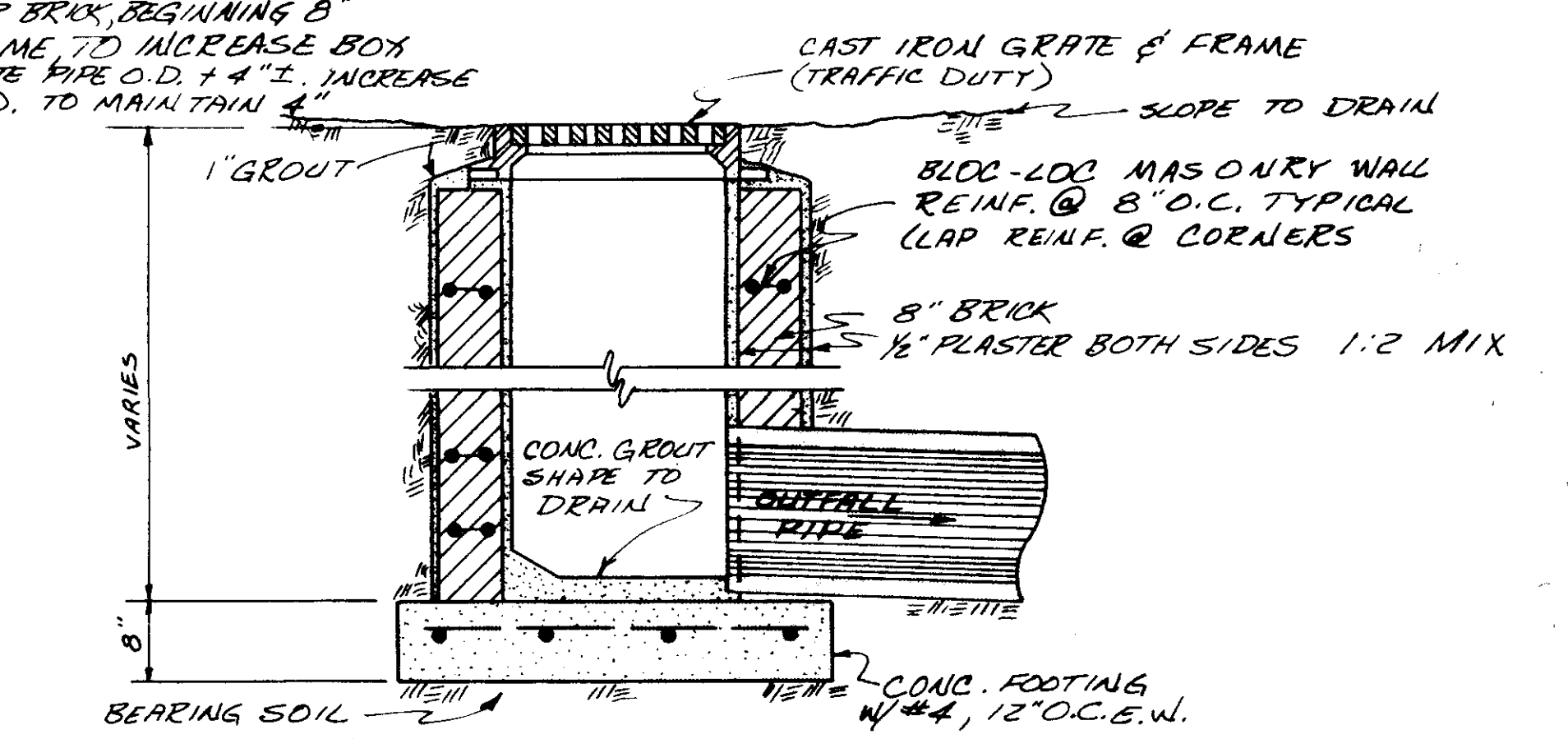


CURB INLET TYPE A
SCALE: 1" = 1'-0"
NOTE: 4" DIA X 4'-0" LONG PIPE AND WASHED GRAVEL INCLUDED W/ COST OF INLET.



PLAN SECTION

NOTE: WHERE 24" DIA. PIPE OCCURS, CORBEL BRICKS BACK 1" PER BRICK, BEGINNING 8" BELOW GRATE FRAME TO INCREASE BOX SIZE TO ACCOMMODATE PIPE O.D. + 4" ±. INCREASE FOOTING AS REQ'D. TO MAINTAIN 4"



GRATE INLET
NTS.

TYPICAL INLET DETAILS

BROWNING INC.
Consulting Engineers Jackson, Mississippi

DRAWN BY: J.F. DATE: FEB., 1991 SHEET NO. 12 OF 12
CHECKED BY: P.L.B. SCALE: AS NOTED