

DETAILED PLANS
UTILITY RELOCATION
U.S. HIGHWAY NO. 51 WIDENING
CITY OF RIDGELAND, MISSISSIPPI

MAYOR

HITE B. WOLCOTT

BOARD OF ALDERMEN

JACK MARTIN

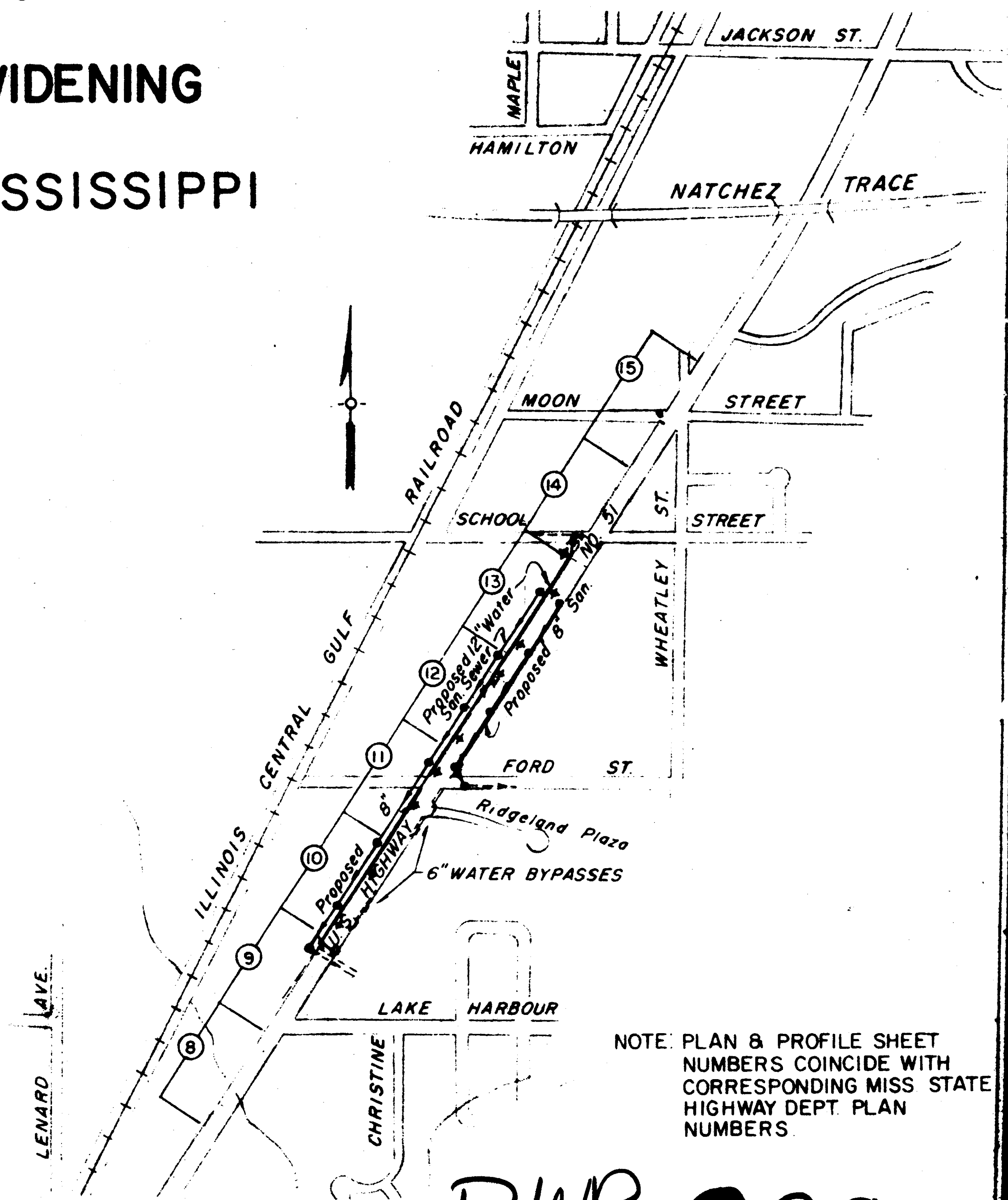
RAYMOND McCLURE

W.C. McCLELLAN

DONALD LINDSLEY

CITY ATTORNEY

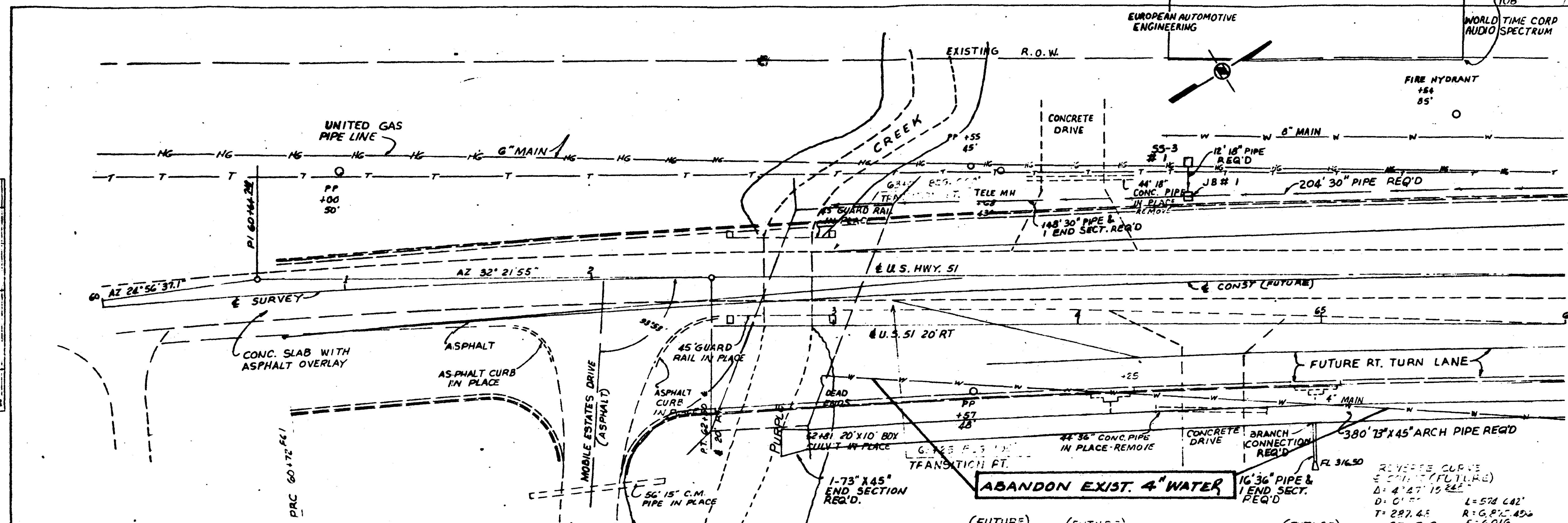
BOB MONTGOMERY



NOTE: PLAN & PROFILE SHEET NUMBERS COINCIDE WITH CORRESPONDING MISS STATE HIGHWAY DEPT. PLAN NUMBERS.

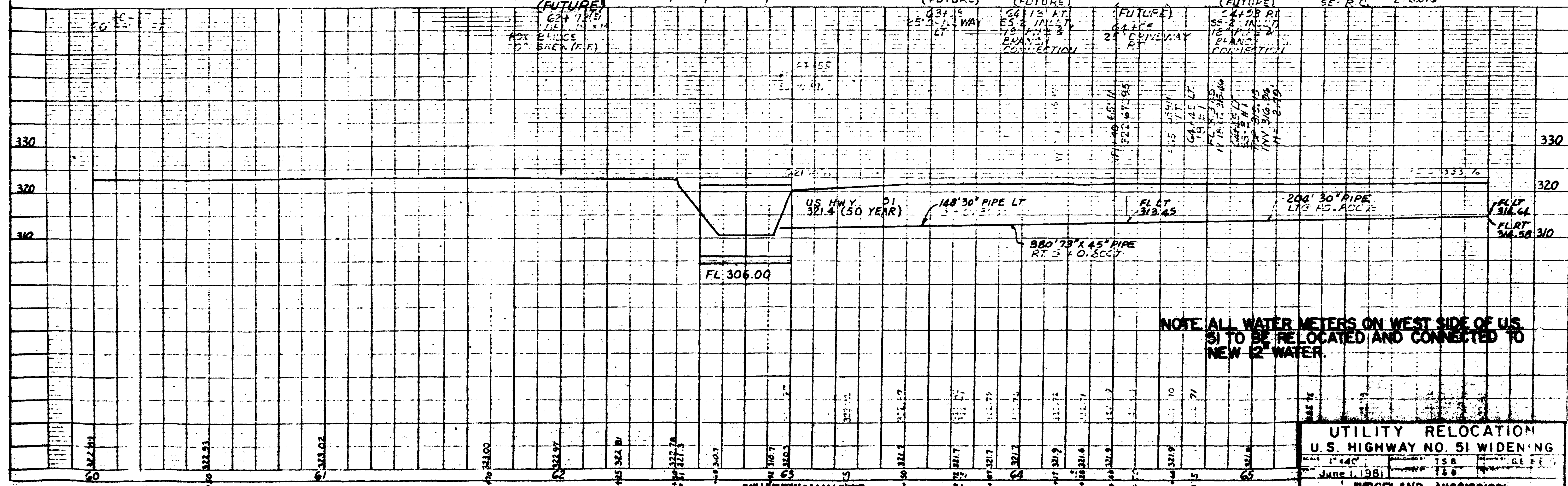
INDEX & LOCATION MAP

PWP-00807



PLAN
DATE
BY
CHECKED
APPROVED

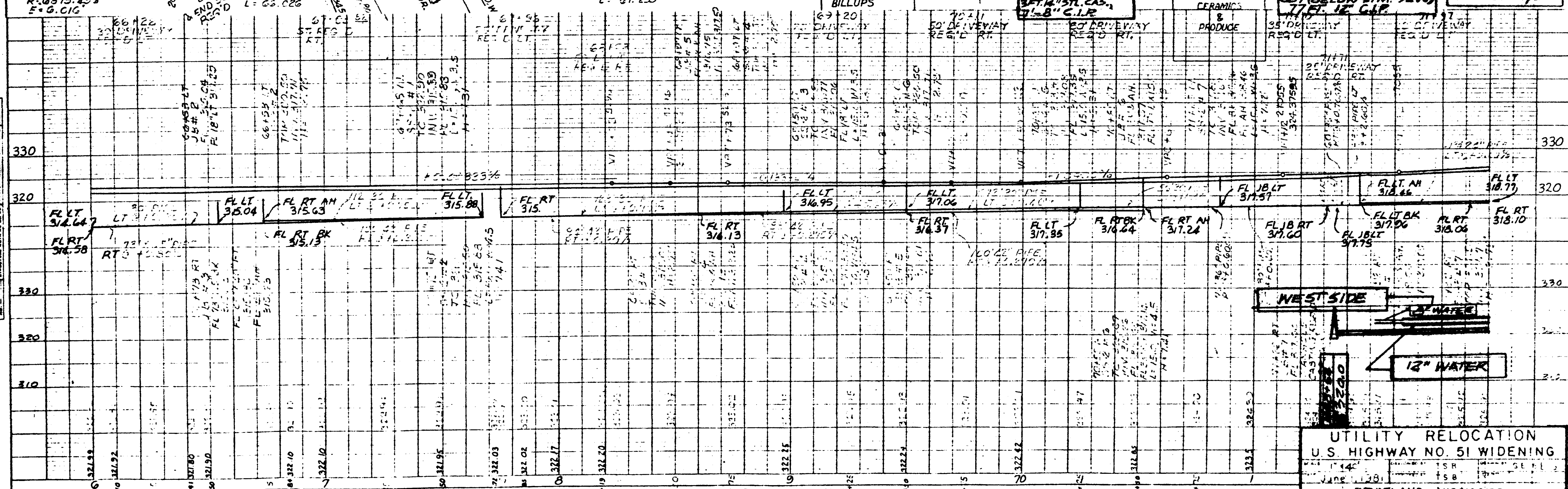
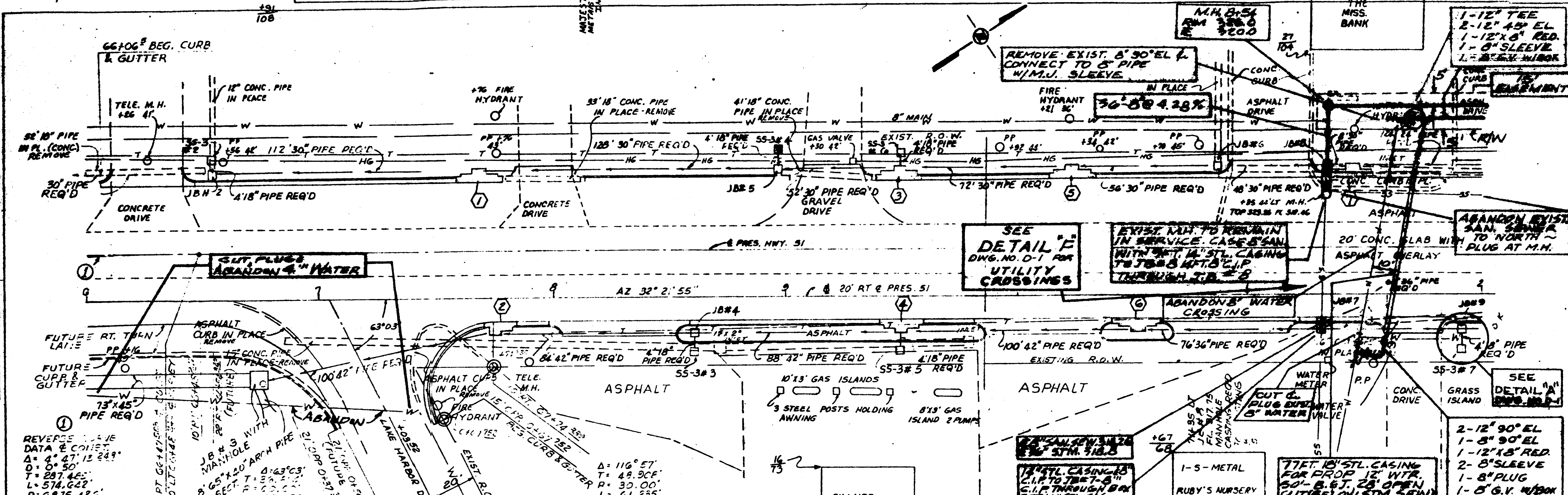
PROFILE
DATE
BY
CHECKED
APPROVED



NOTE: ALL WATER METERS ON WEST SIDE OF U.S. 51 TO BE RELOCATED AND CONNECTED TO NEW 12\"/>

UTILITY RELOCATION
U.S. HIGHWAY NO. 51 WIDENING
 SCALE: 1"=40'
 DATE: June 1, 1981
 RIDGELAND, MISSISSIPPI
BARTH & ASSOCIATES, INC.
 CONSULTING ENGINEERS
 JACKSON, MISSISSIPPI

PARTS COUNTRY



PLAN

DATE: _____

BY: _____

CHECKED BY: _____

SCALE: _____

PROFILE

DATE: _____

BY: _____

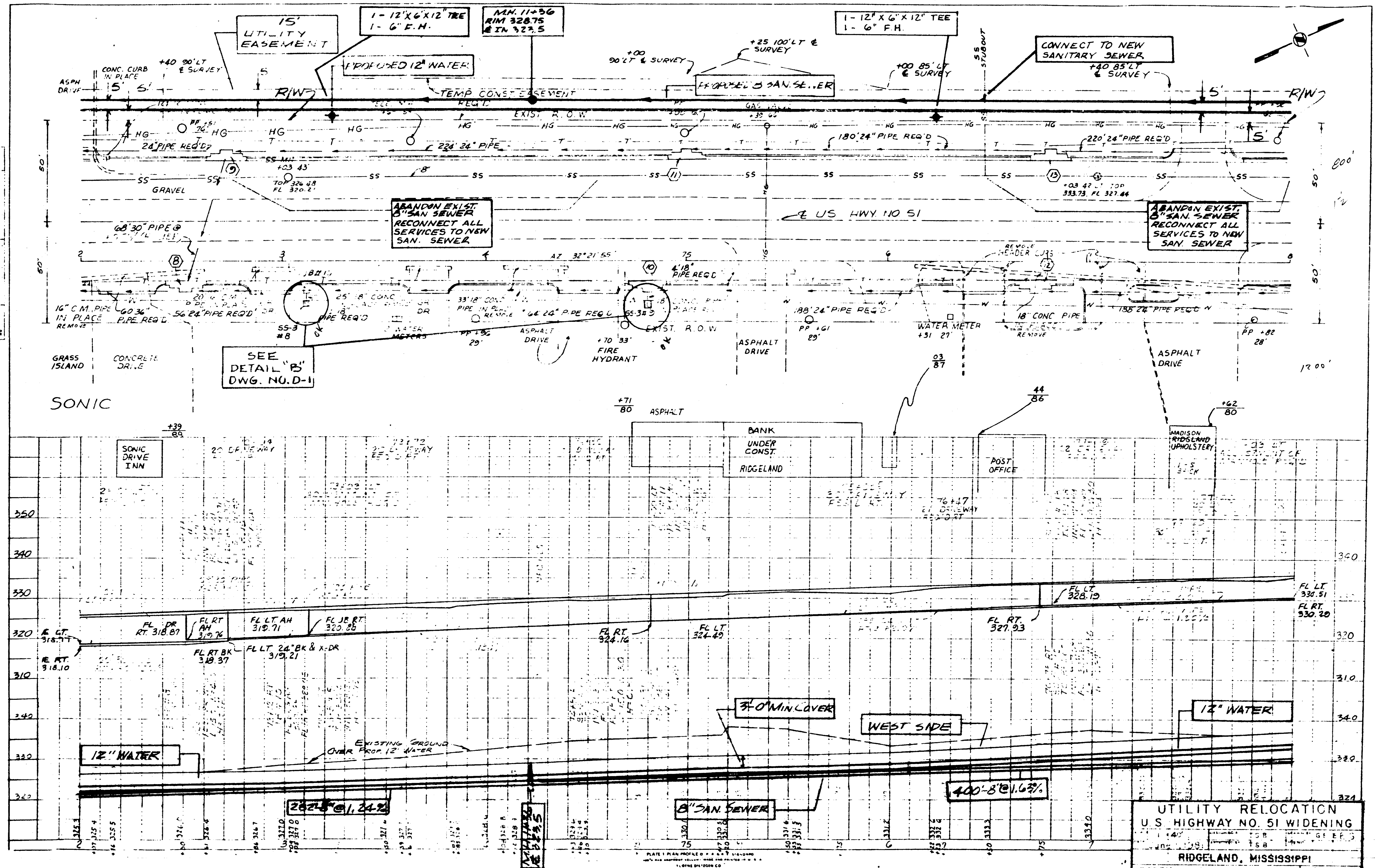
CHECKED BY: _____

SCALE: _____

UTILITY RELOCATION
U.S. HIGHWAY NO. 51 WIDENING
 RIDGELAND, MISSISSIPPI
BARTH & ASSOCIATES, INC.
 CONSULTING ENGINEERS
 9

PLAN
 DATE BOOK
 SHEET NO. 10

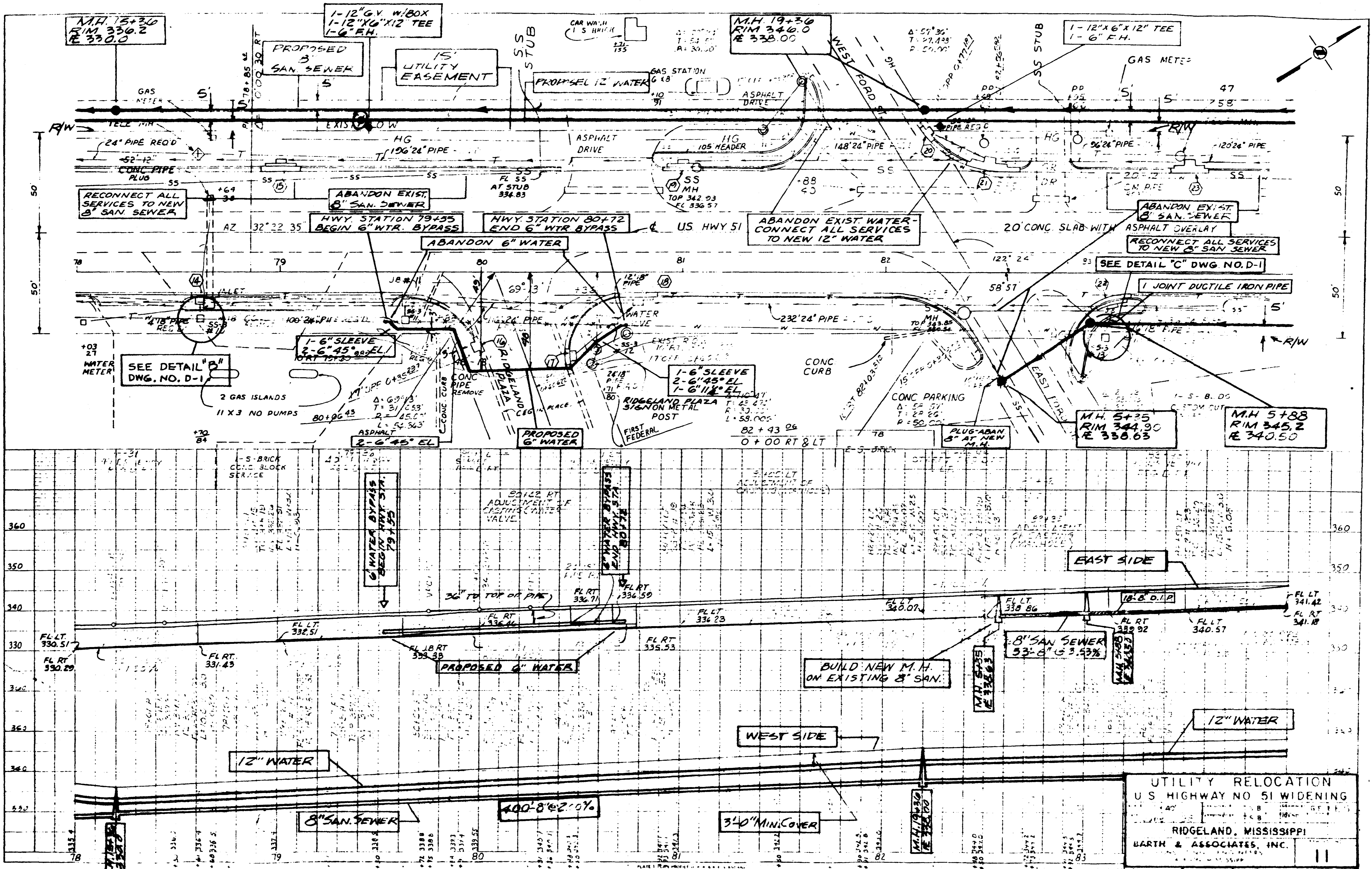
PROFILE
 DATE BOOK
 SHEET NO. 10



UTILITY RELOCATION
 U.S. HIGHWAY NO. 51 WIDENING
 RIDGELAND, MISSISSIPPI
 BARTH & ASSOCIATES, INC.
 ENGINEERS
 RIDGELAND, MISSISSIPPI

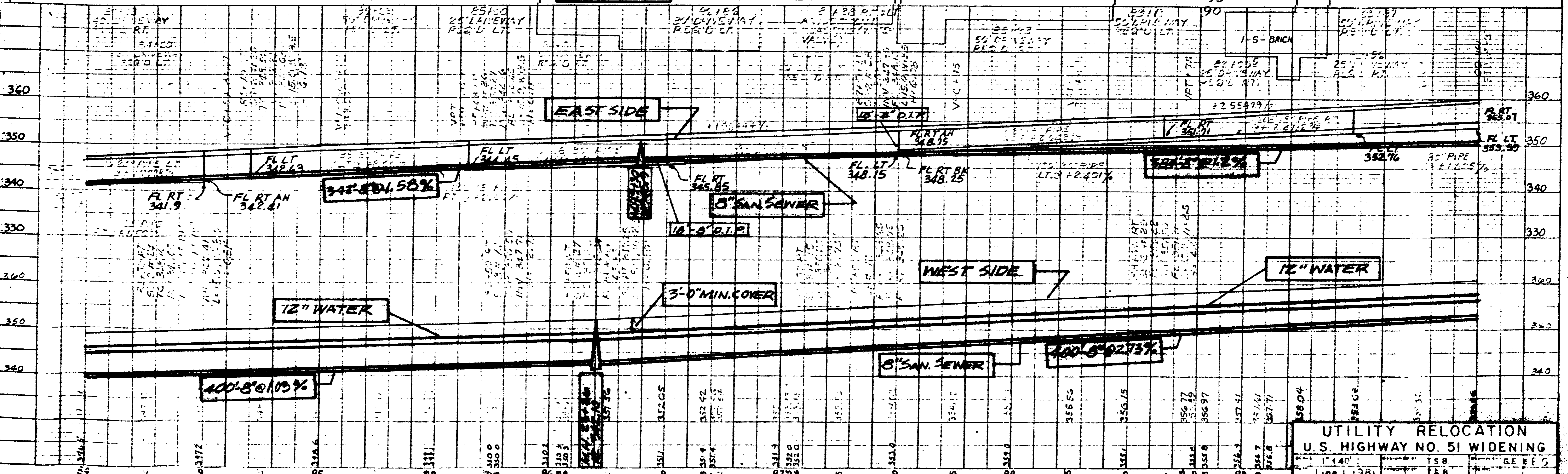
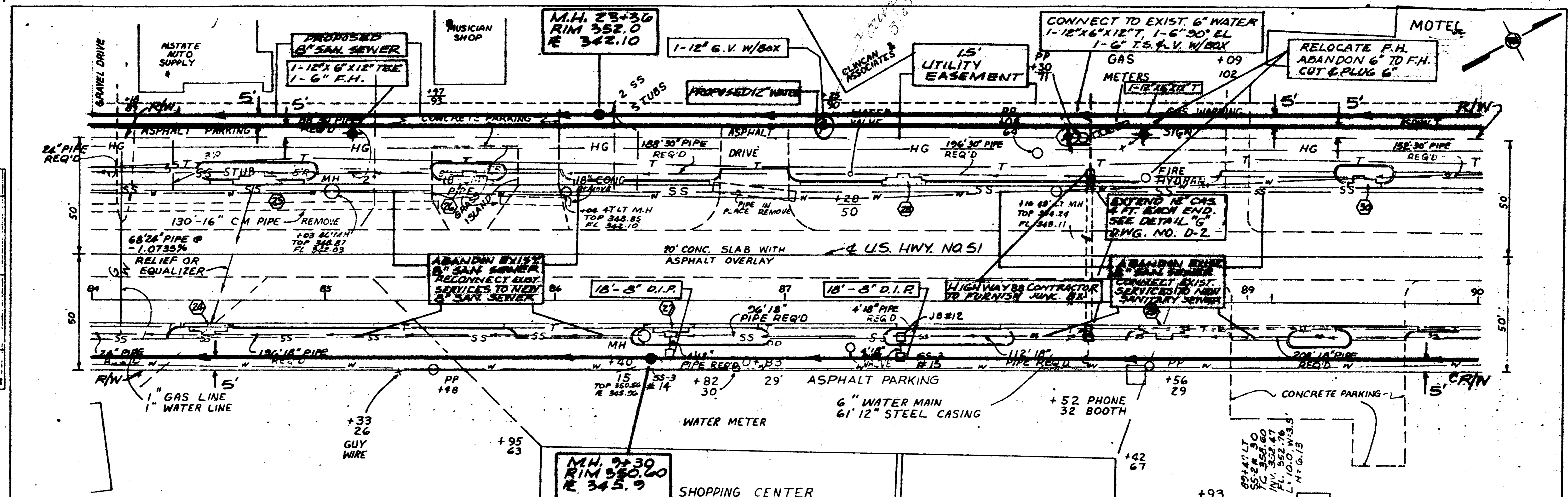
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BY	
CHECKED	
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PROJECT	
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DATE	
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PROJECT	
DATE	
BY	
CHECKED	
APPROVED	



UTILITY RELOCATION
 U.S. HIGHWAY NO 51 WIDENING
 RIDGELAND, MISSISSIPPI
 BARTH & ASSOCIATES, INC.
 17-1542-00 102 10
 MADISON COUNTY

PLAN	DATE	BY
NO. 1		



UTILITY RELOCATION
U.S. HIGHWAY NO. 51 WIDENING

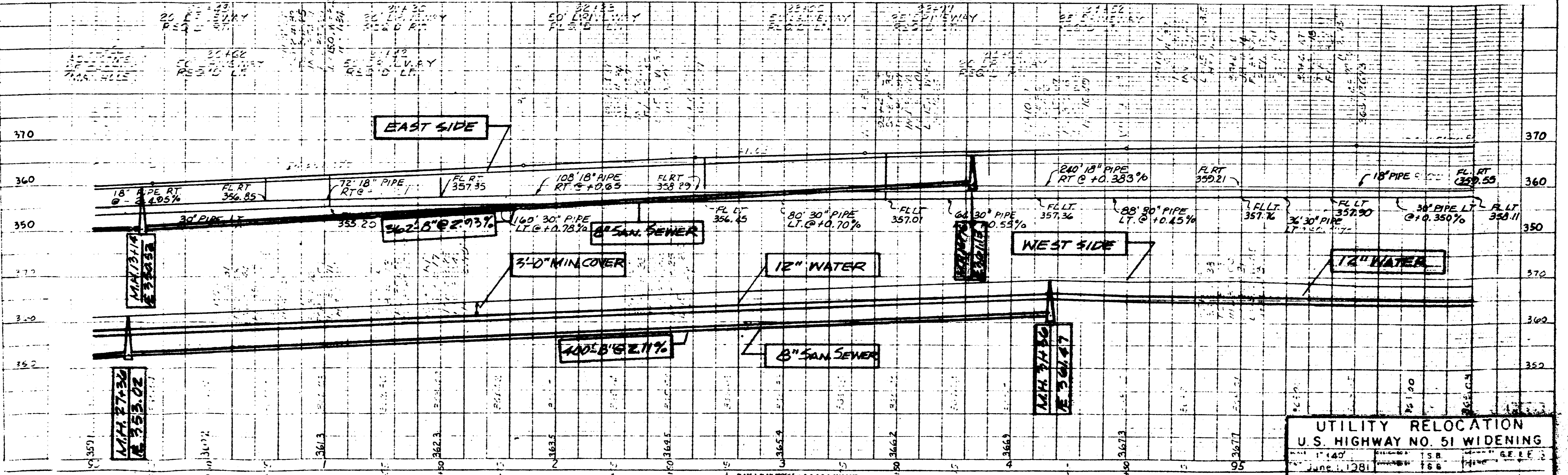
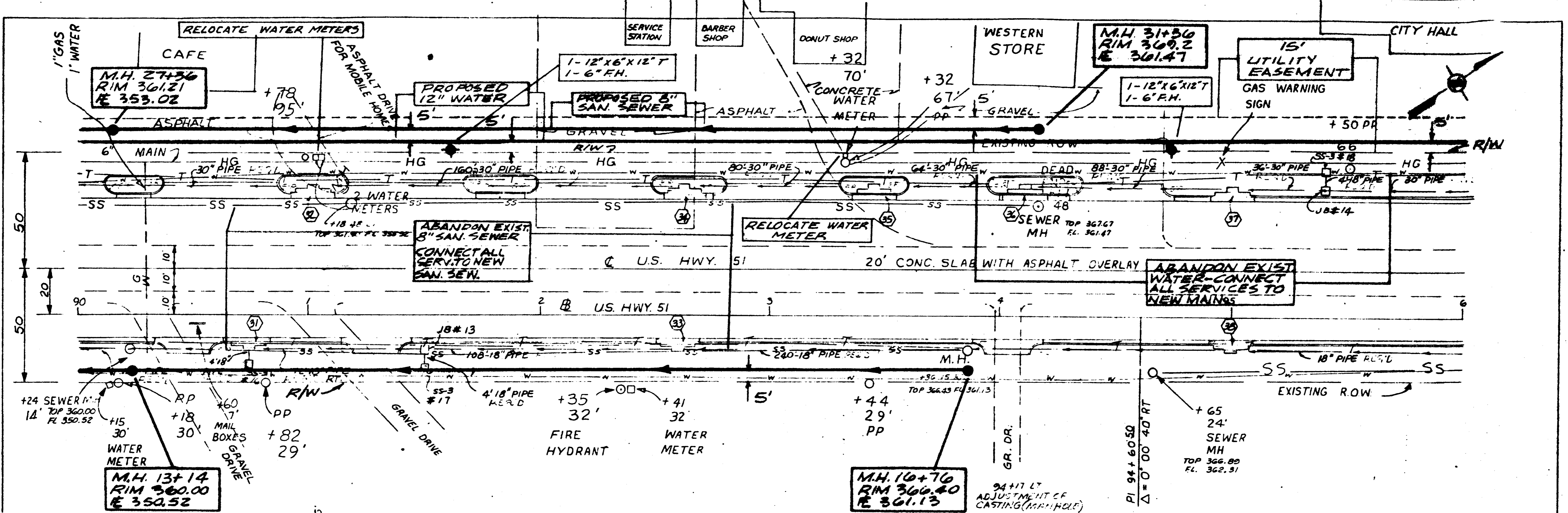
SCALE: 1"=40' DATE: JUNE 1, 1981

RIDGELAND, MISSISSIPPI

BARTH & ASSOCIATES, INC.
CONSULTING ENGINEERS
JACKSON, MISSISSIPPI

12

DATE	
BY	
REVISION	
NO.	
DATE	
BY	
REVISION	
NO.	
DATE	
BY	
REVISION	
NO.	

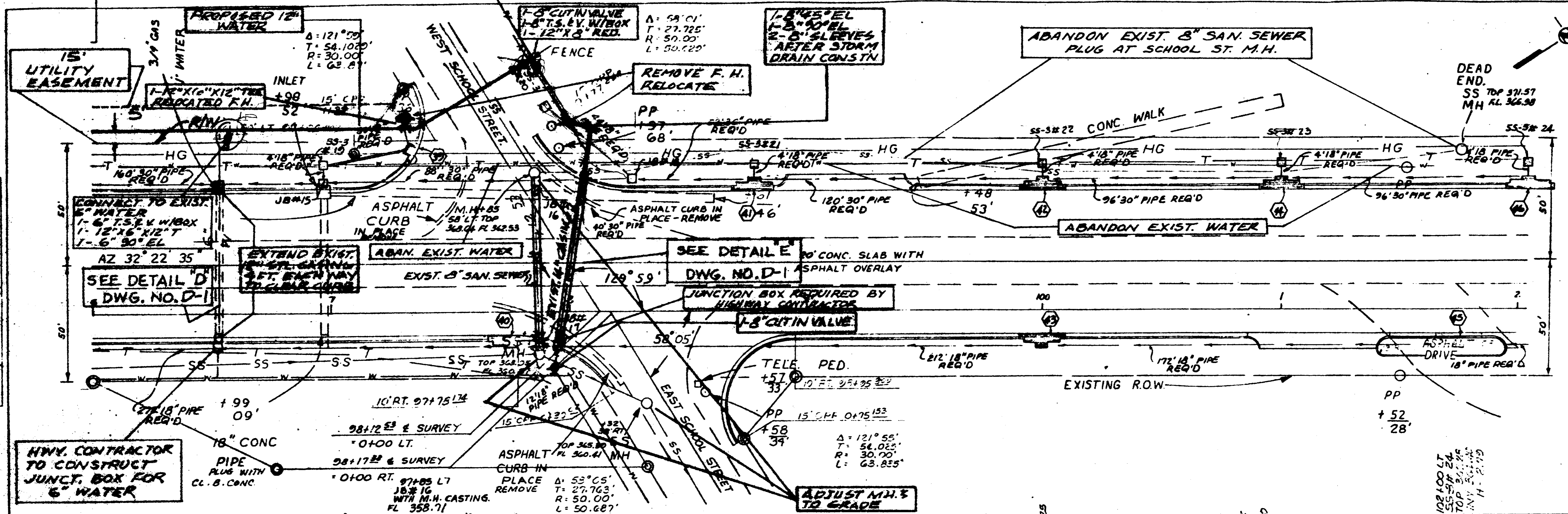


UTILITY RELOCATION
U.S. HIGHWAY NO. 51 WIDENING
 DATE: 1-14-67
 DRAWN BY: TSB
 CHECKED BY: GEE
 DATE: June 1, 1981
 DATE: 1988

RIDGELAND, MISSISSIPPI
BARTH & ASSOCIATES, INC.
 CONSULTING ENGINEERS
 JACKSON, MISSISSIPPI

13

CITY HALL

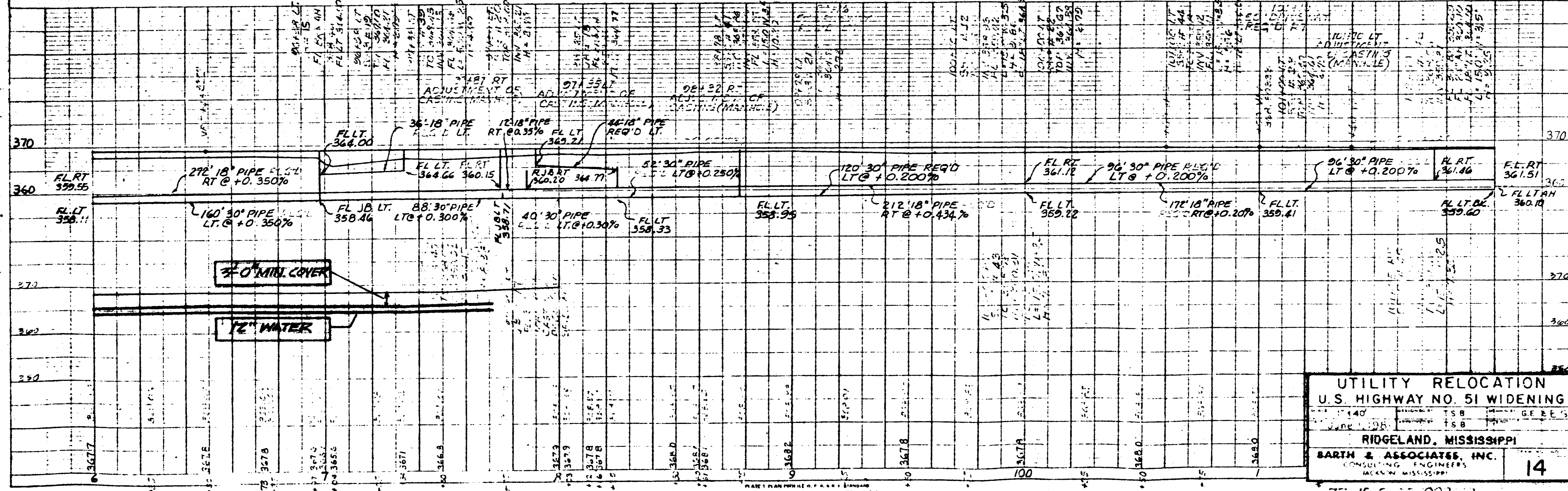


PLAN

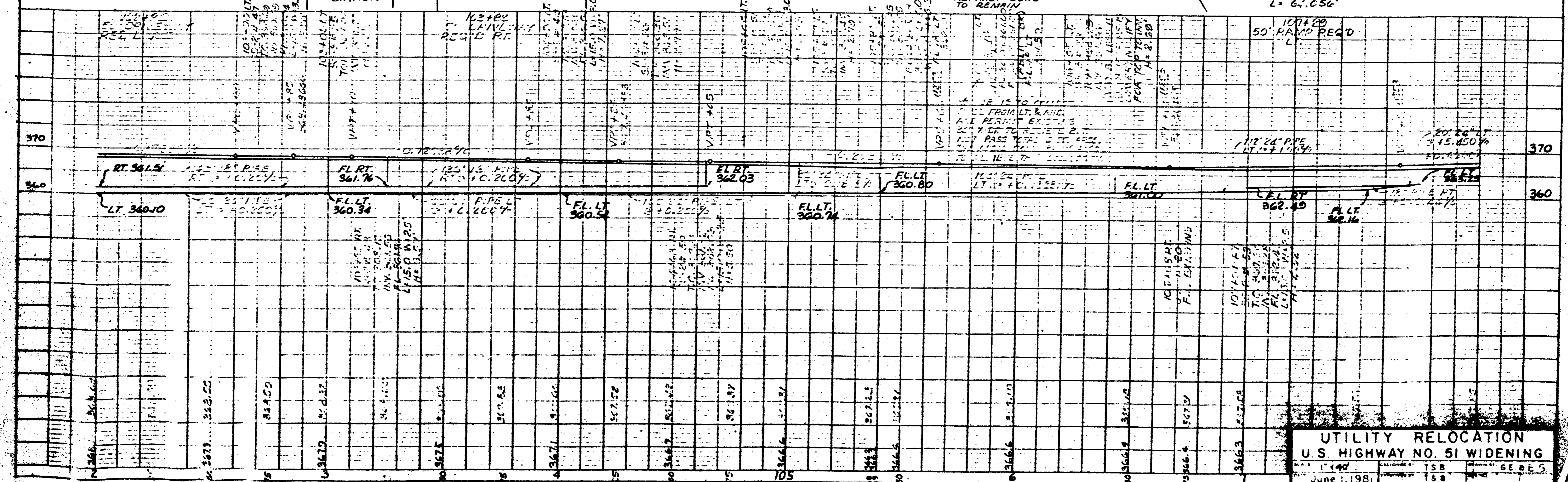
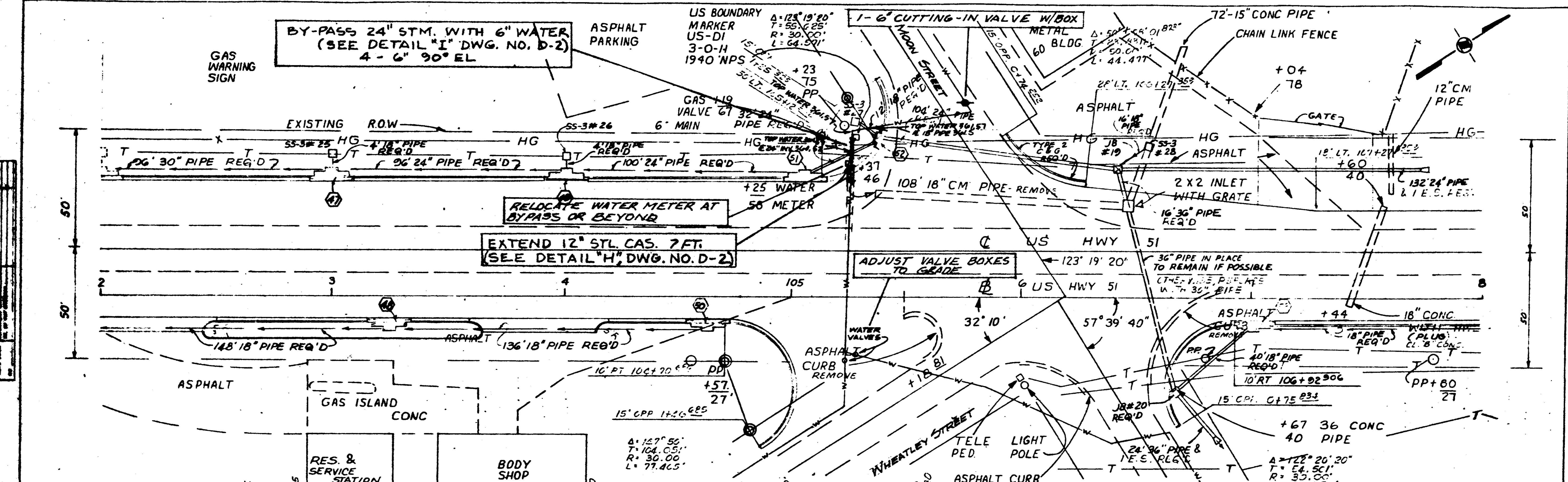
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SCALE	AS SHOWN
PROJECT	UTILITY RELOCATION
DRAWN BY	J.M.
CHECKED BY	J.M.
DATE	NOV 1988

PROFILE

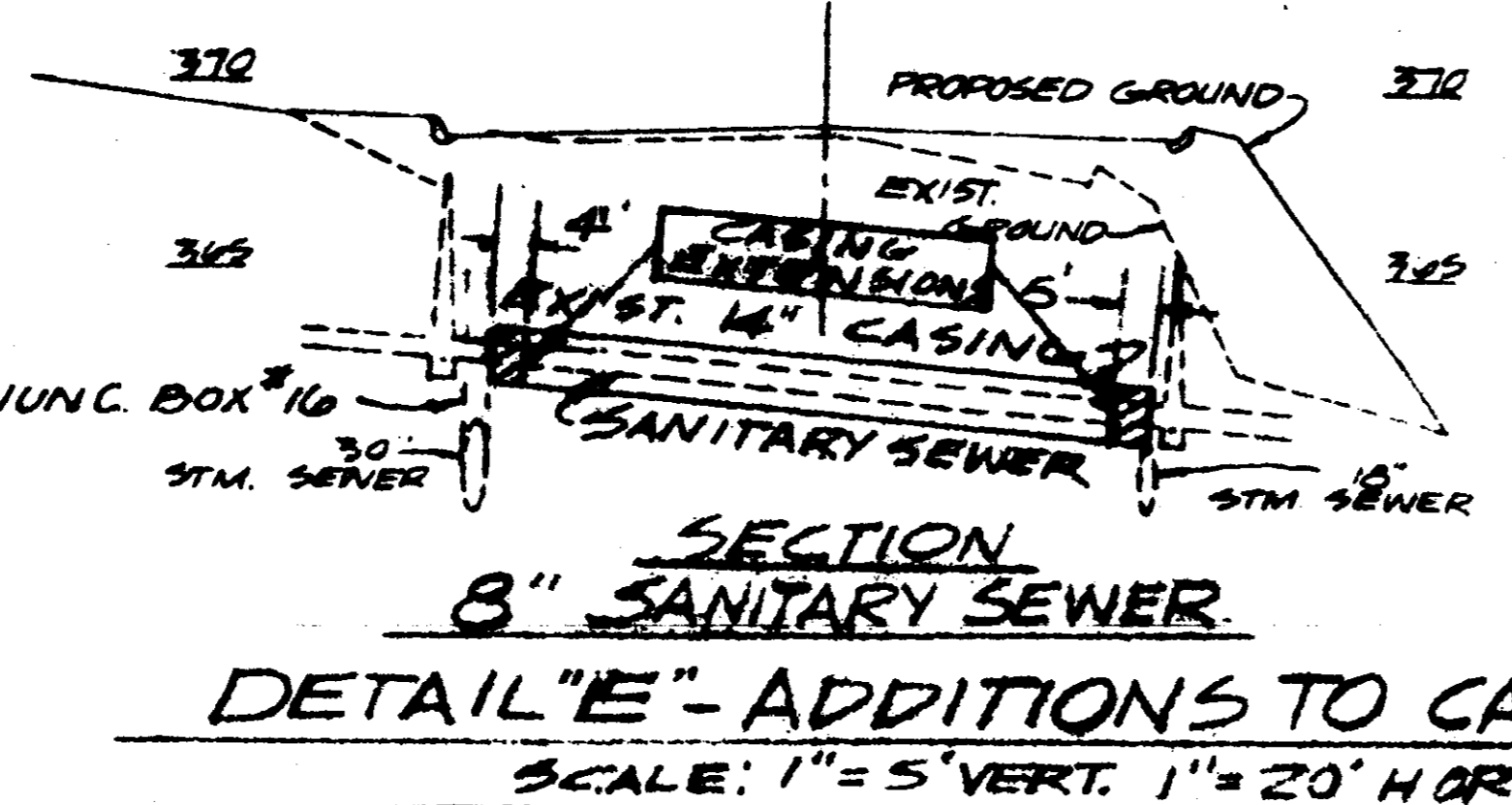
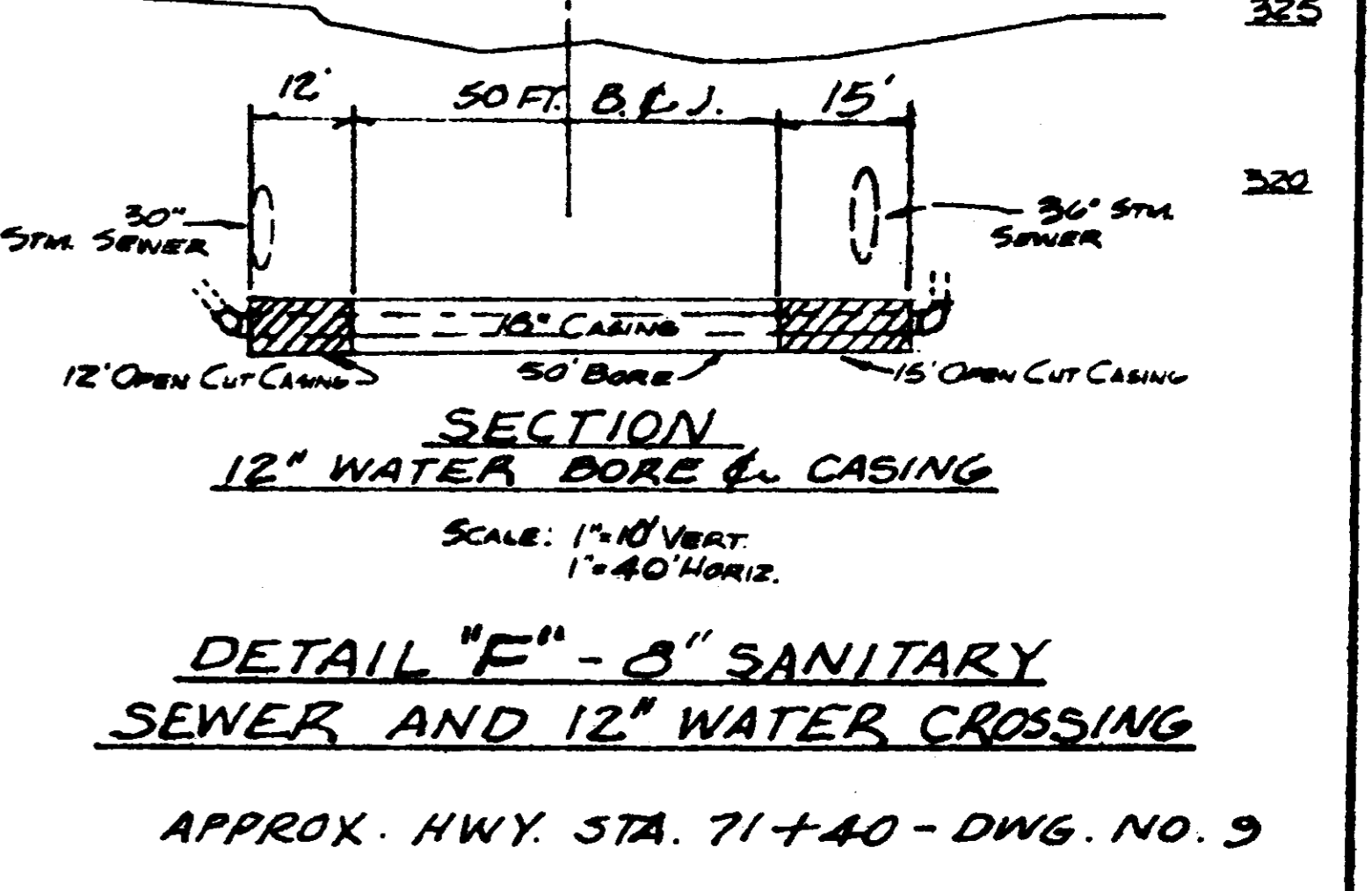
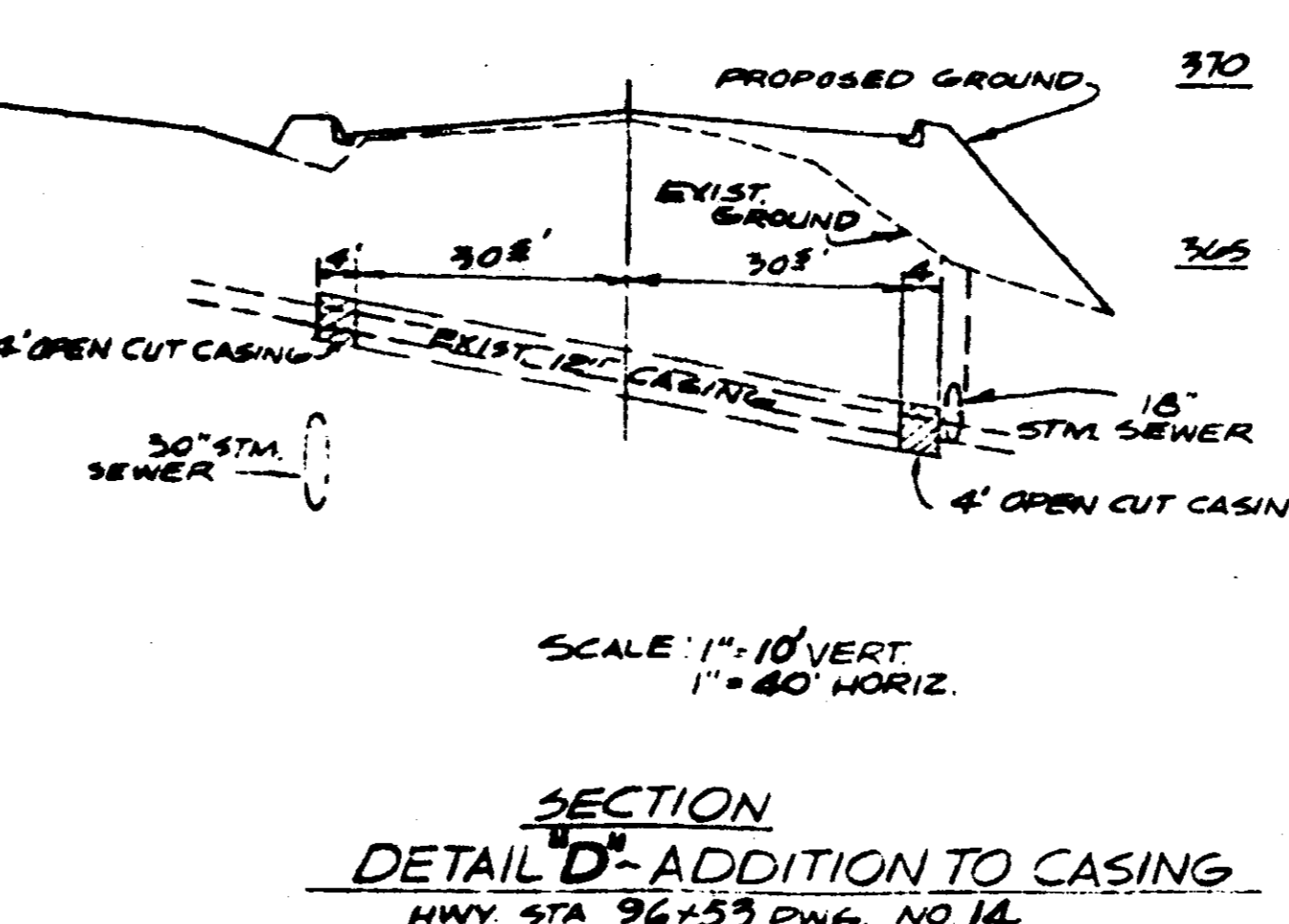
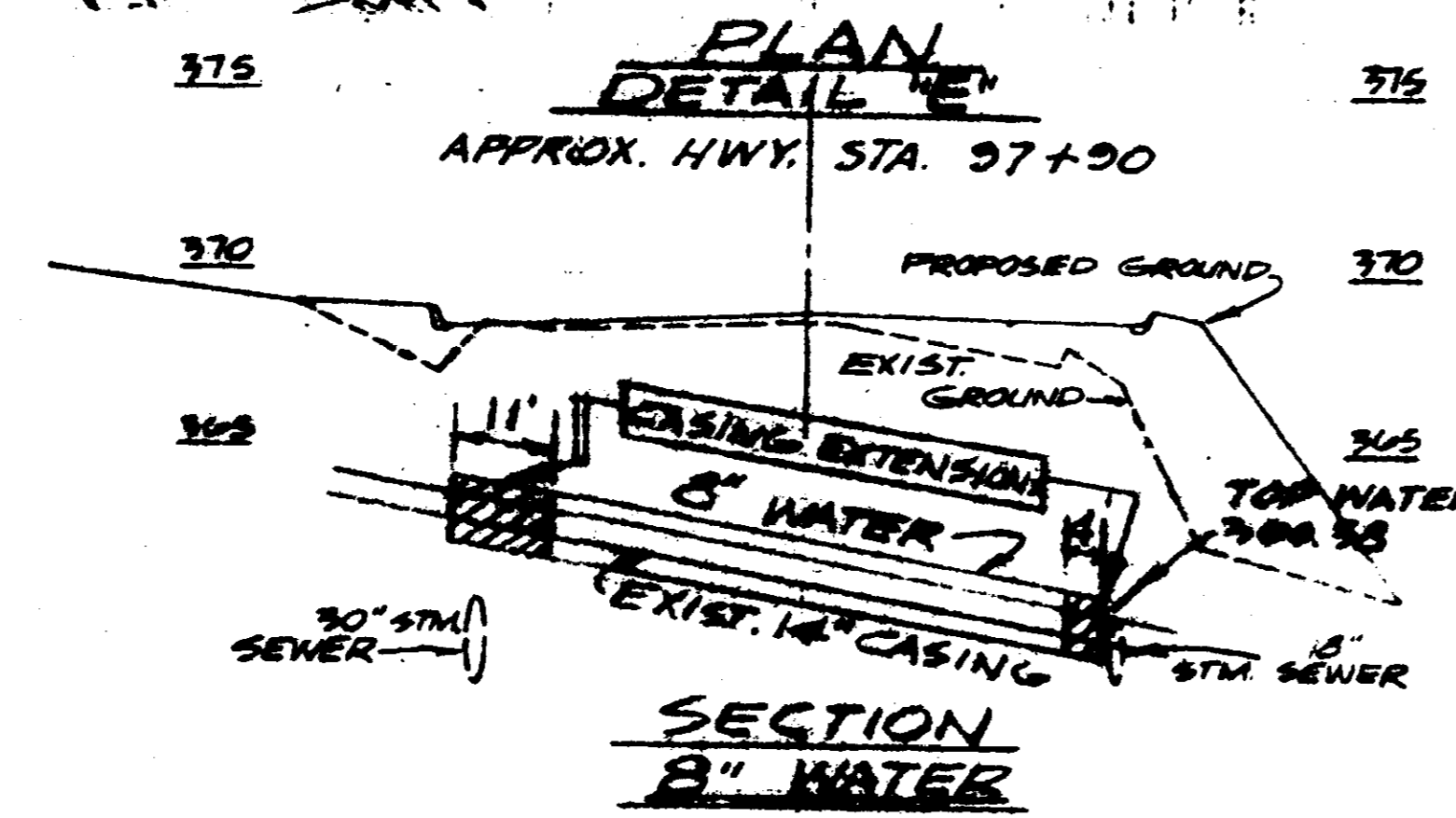
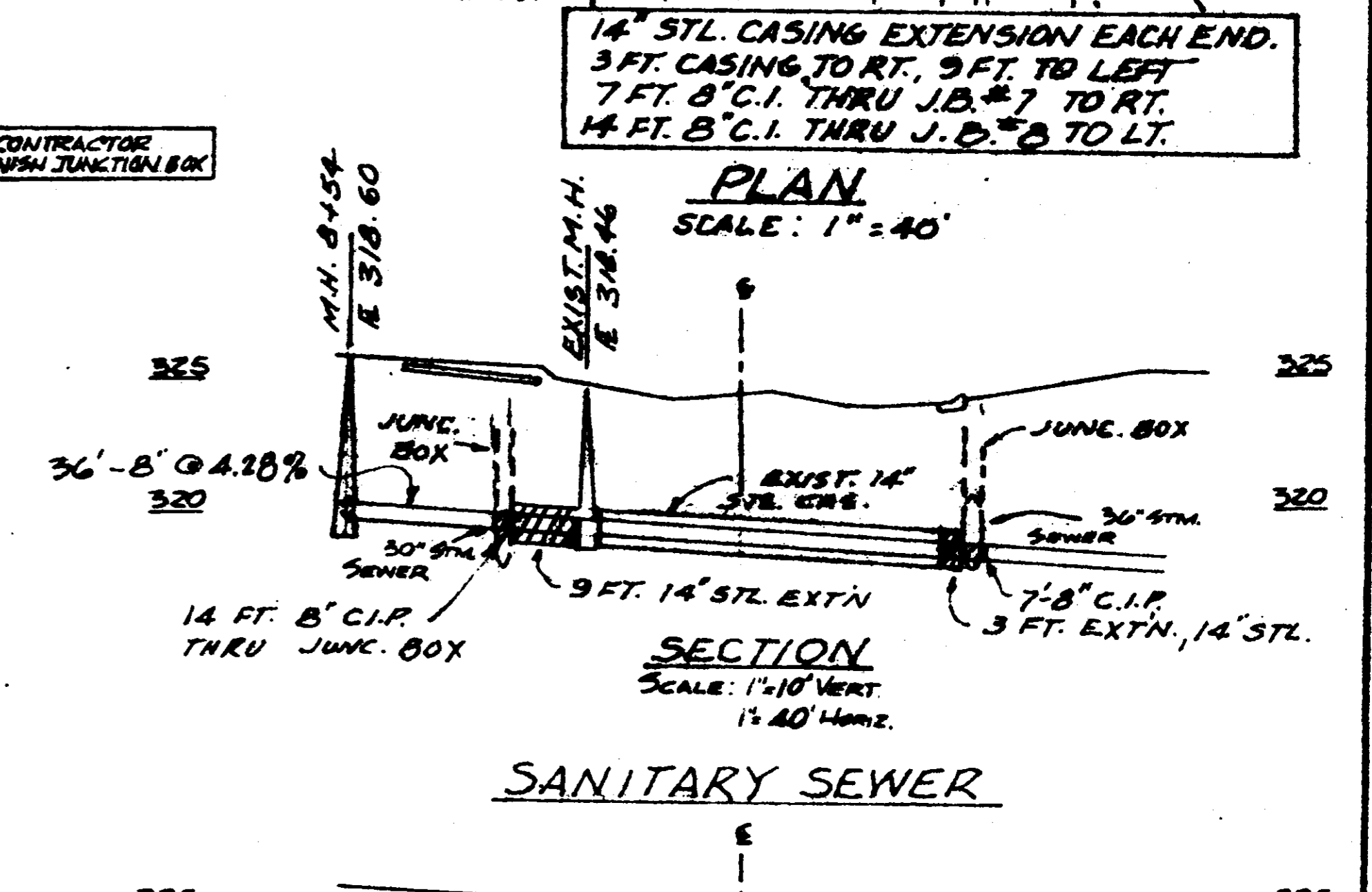
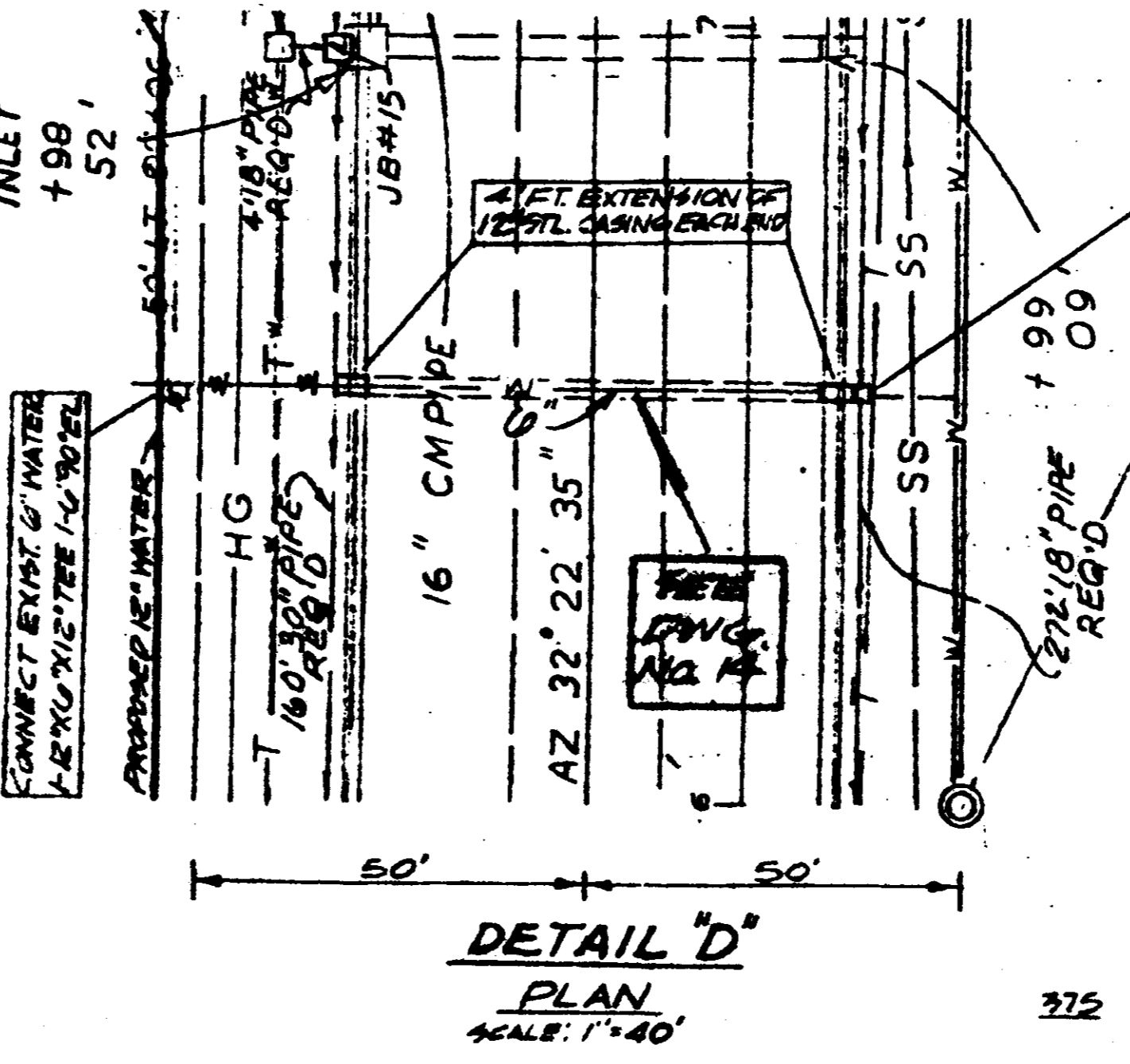
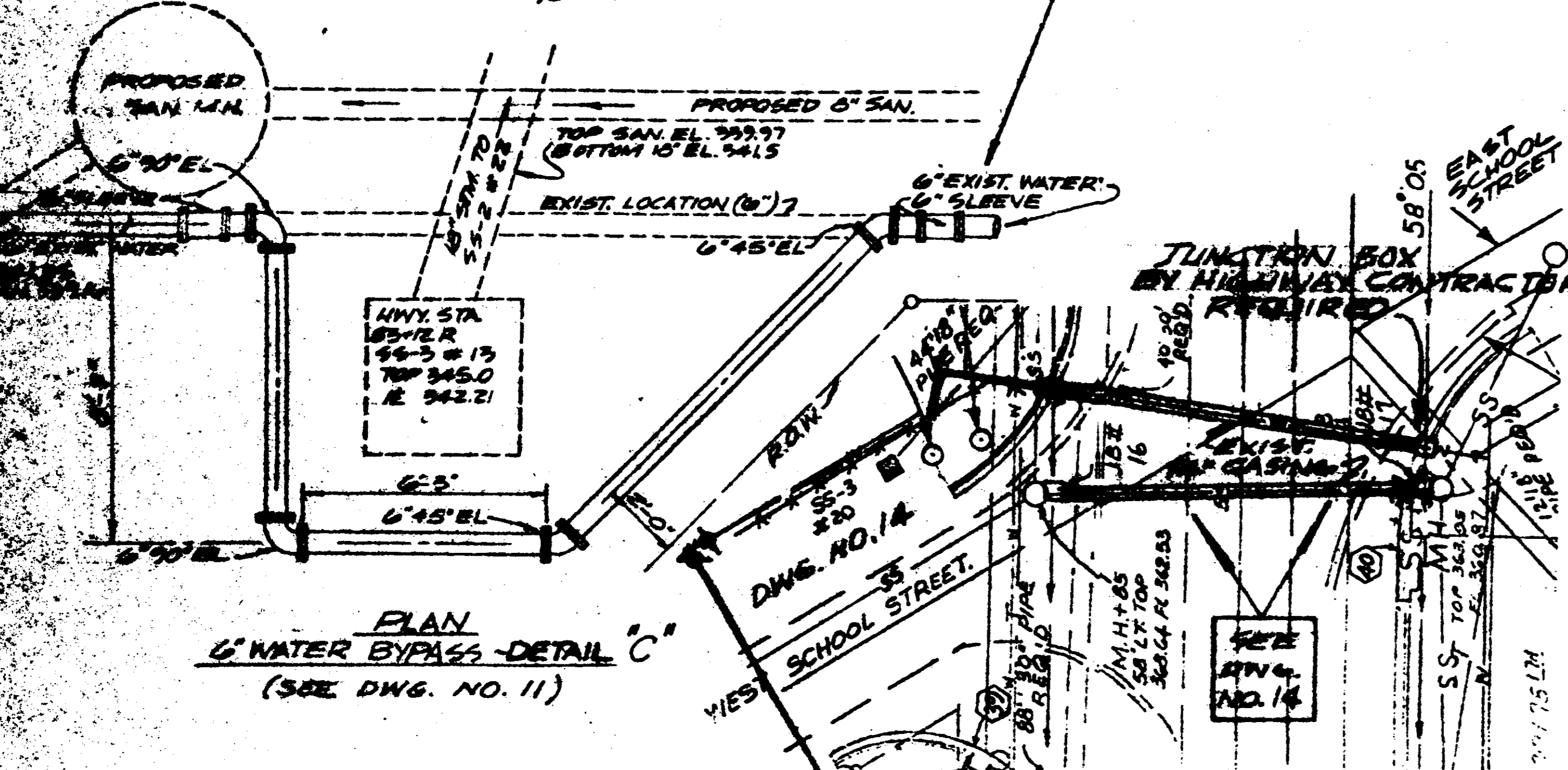
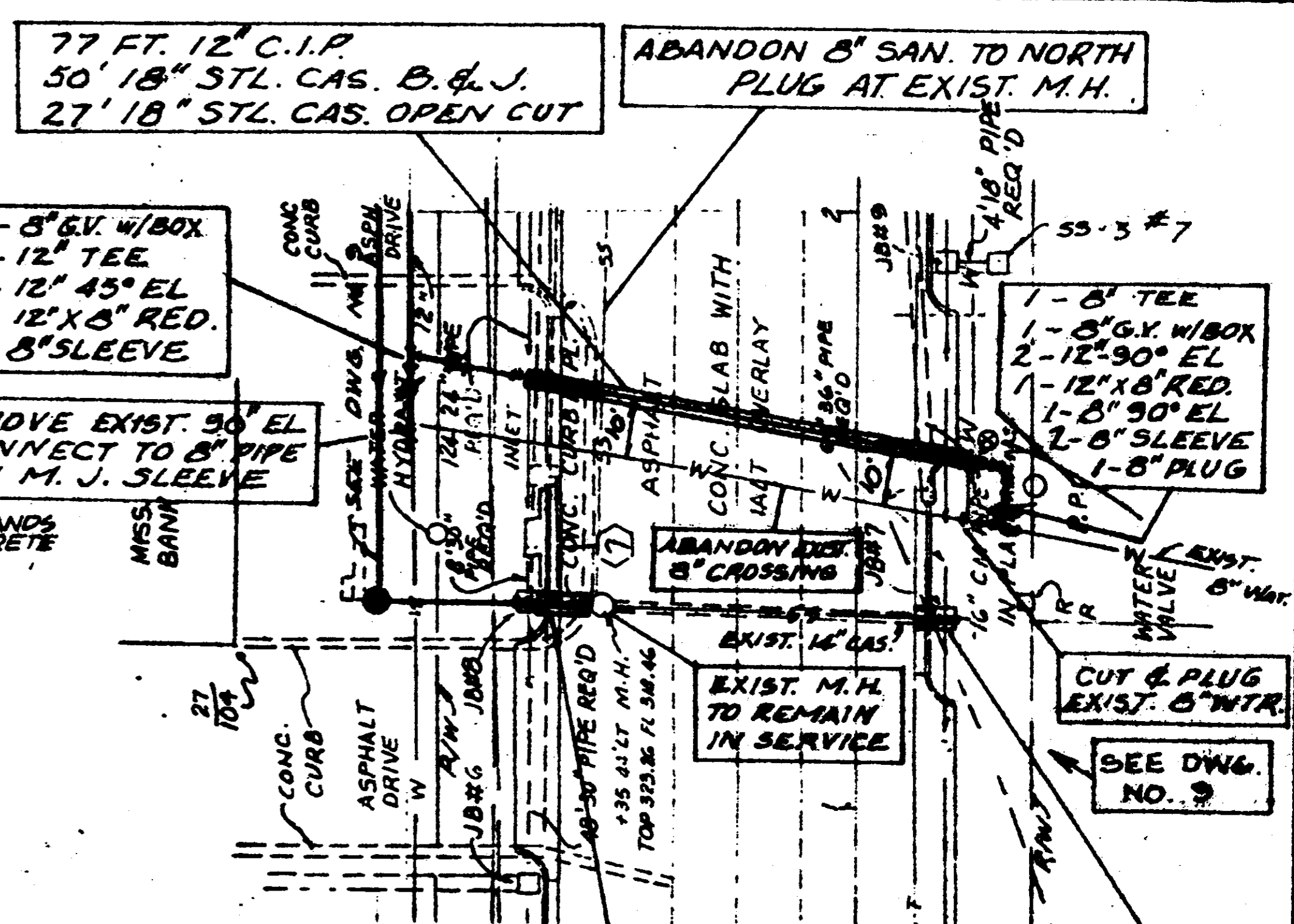
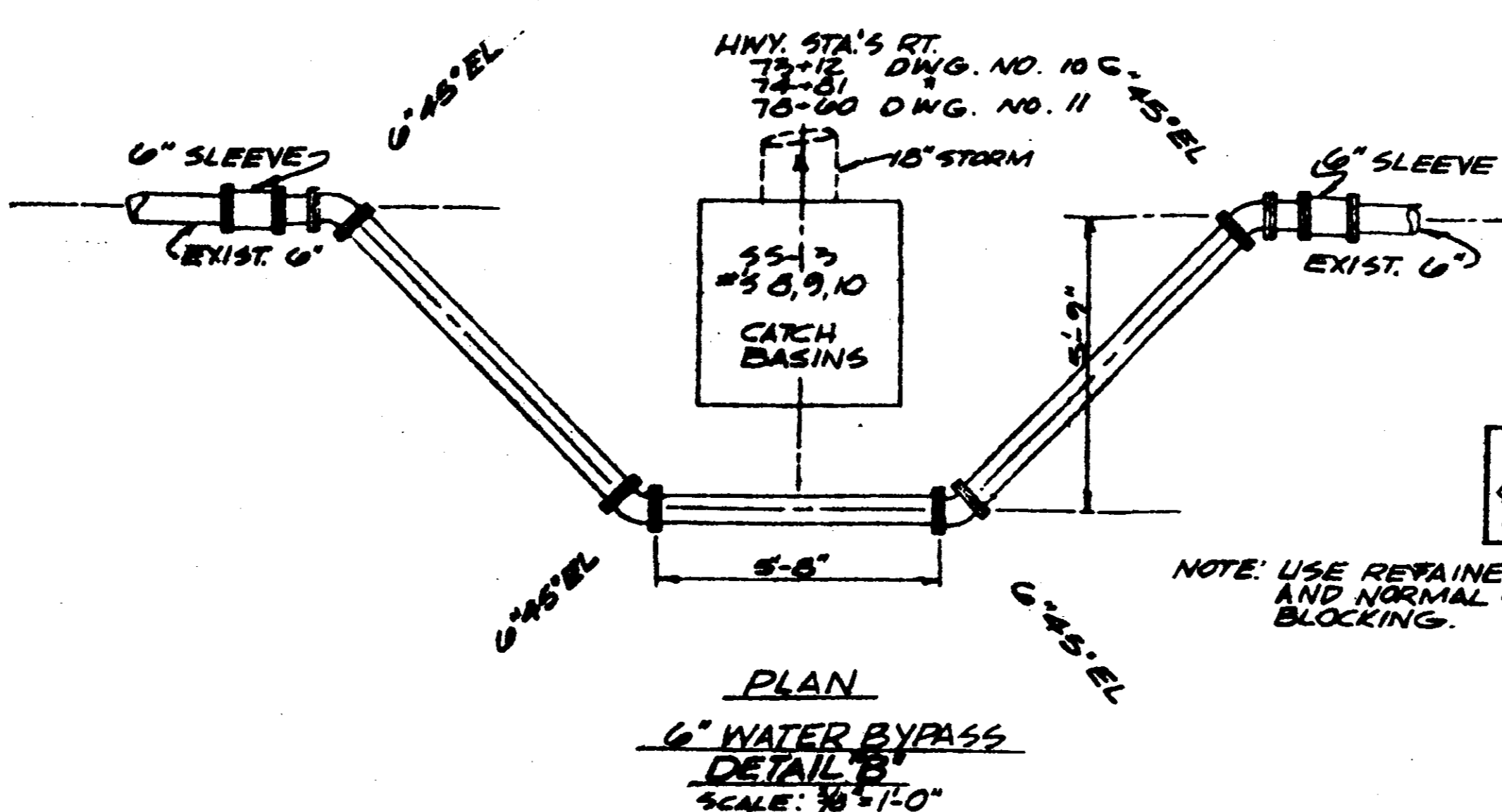
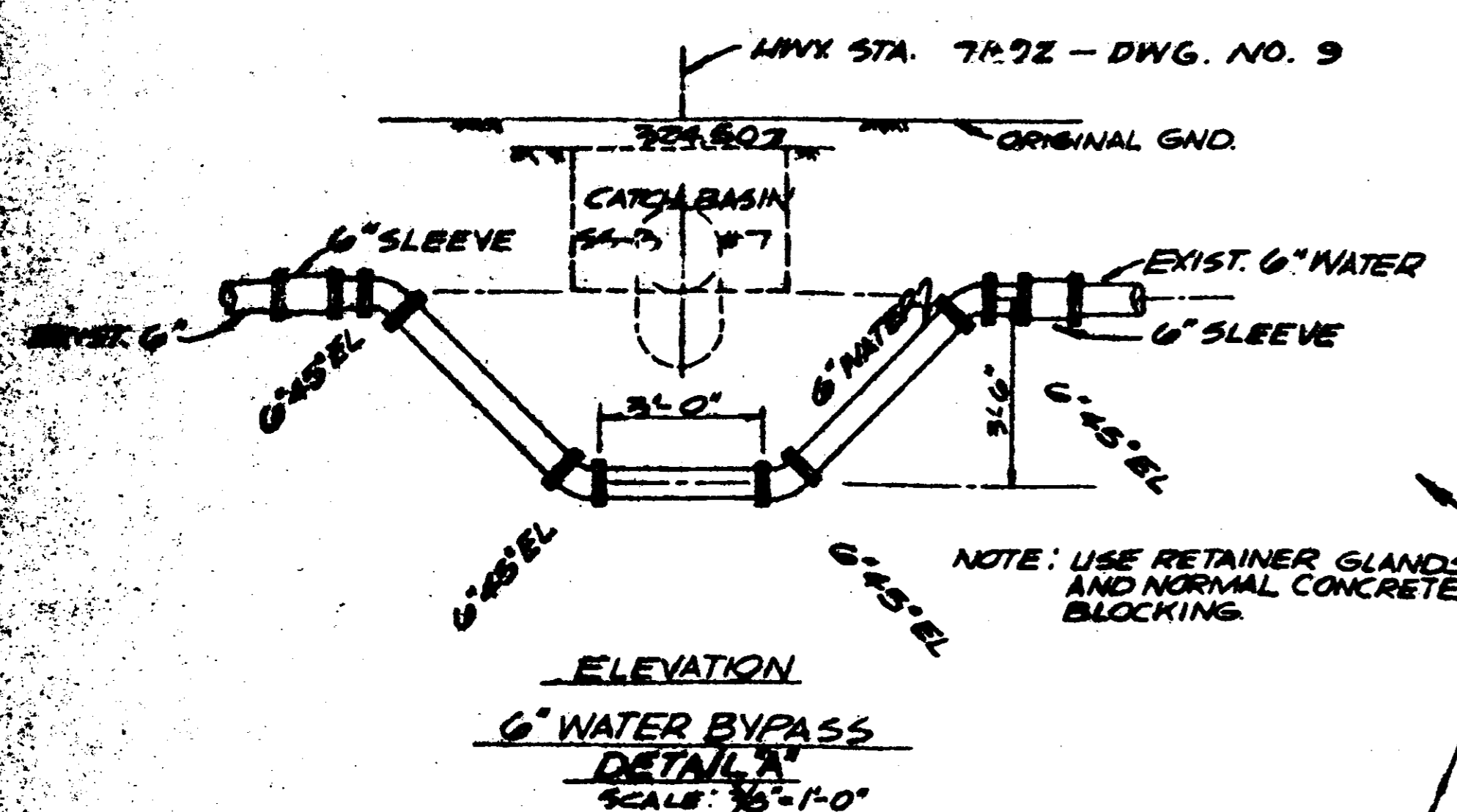
DATE	NOV 1988
SCALE	AS SHOWN
PROJECT	UTILITY RELOCATION
DRAWN BY	J.M.
CHECKED BY	J.M.
DATE	NOV 1988



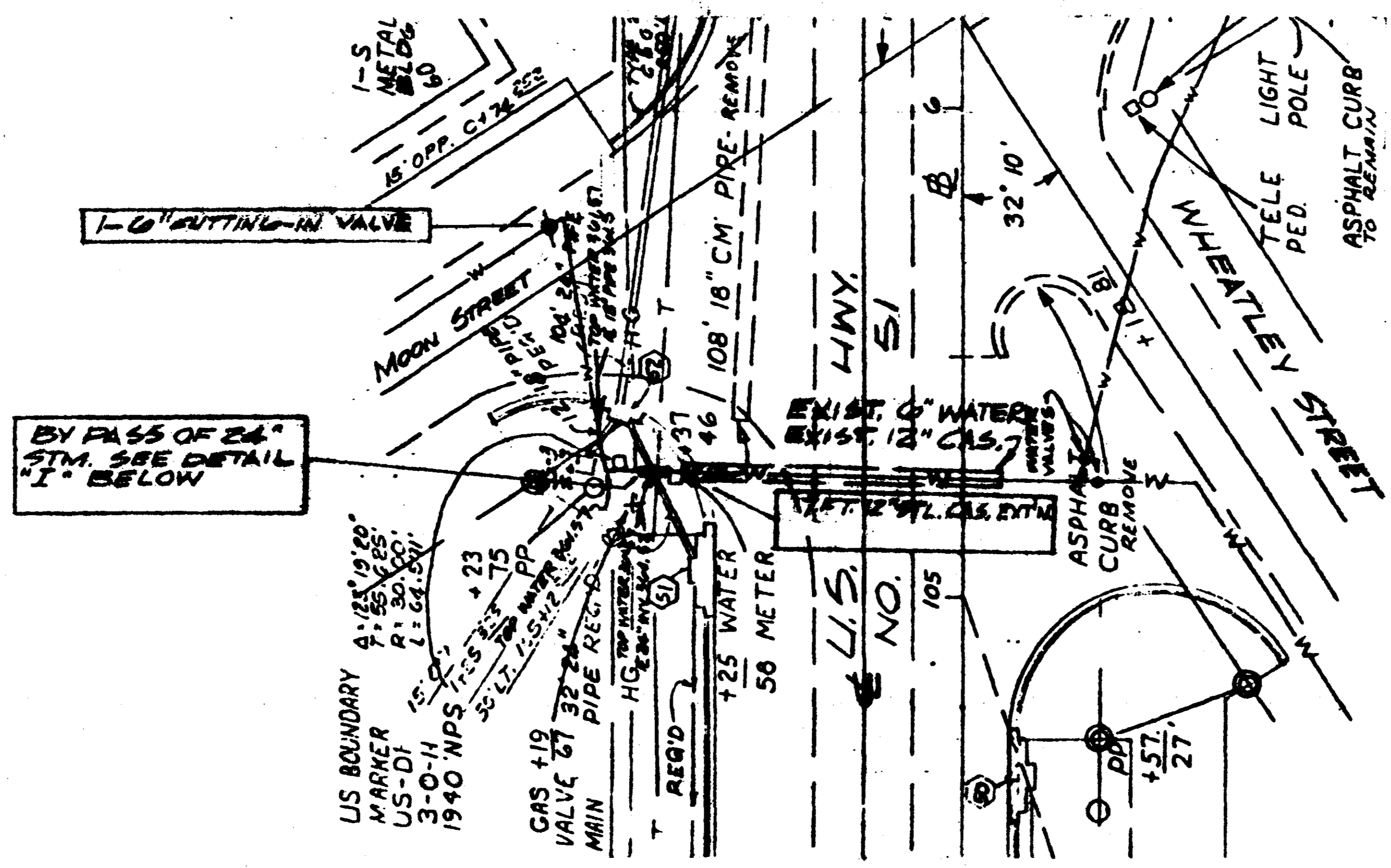
UTILITY RELOCATION
U.S. HIGHWAY NO. 51 WIDENING
 DATE: 11/14/88 DRAWN BY: TSB CHECKED BY: G.E.E.S.
 RIDGLAND, MISSISSIPPI
BARTH & ASSOCIATES, INC.
 CONSULTING ENGINEERS
 JACKSON, MISSISSIPPI



UTILITY RELOCATION
 U.S. HIGHWAY NO. 51 WIDENING
 June 1981
RIDGELAND, MISSISSIPPI
BARTH & ASSOCIATES, INC.
 CONSULTING ENGINEERS
 JACKSON, MISSISSIPPI



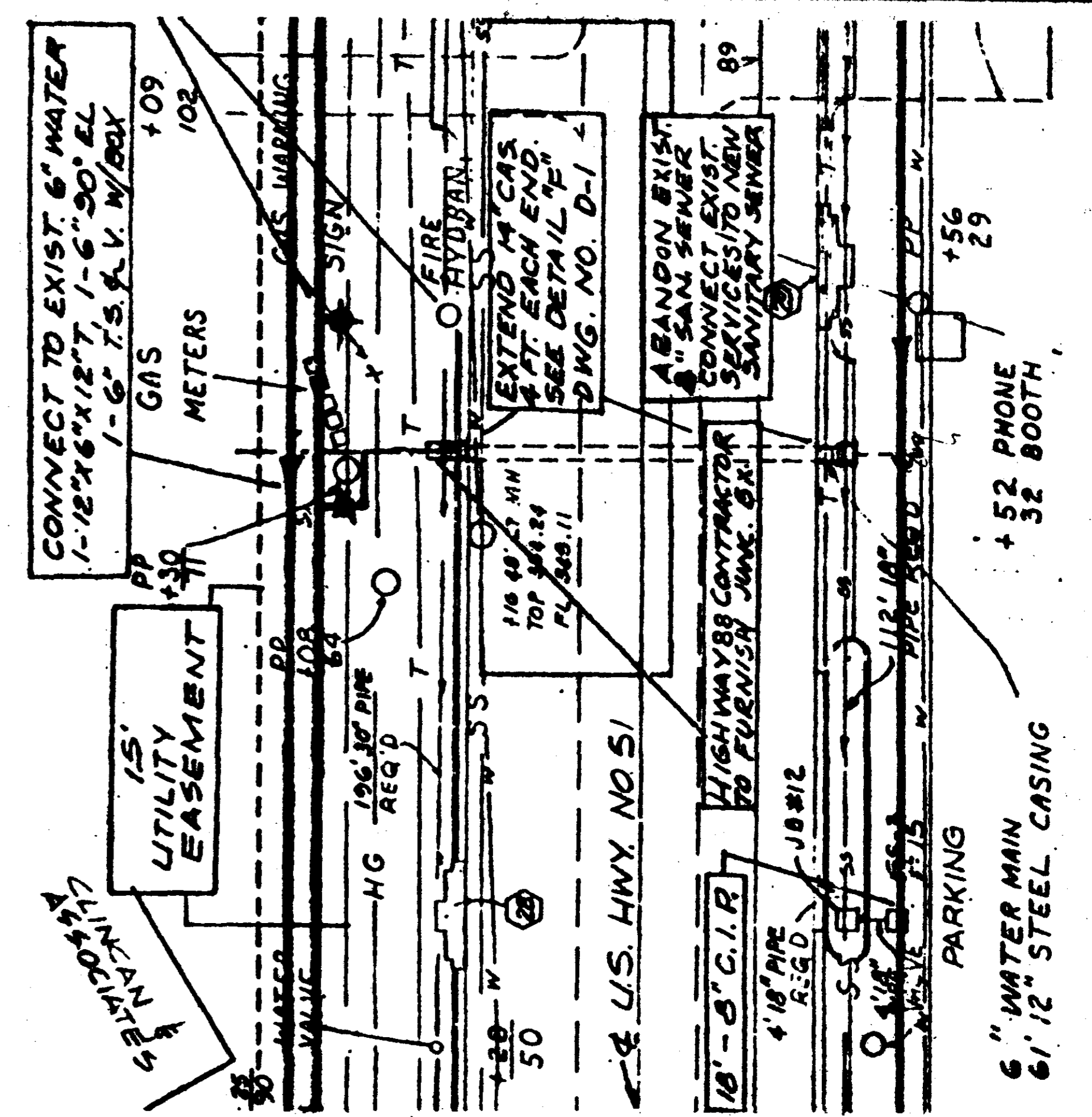
UTILITY RELOCATION		
U.S. HIGHWAY NO. 51 WIDENING		
SCALE AS SHOWN	DESIGNED BY T.S.B.	DRAWN BY E.G.
DATE JUNE 13, 1981	APPROVED BY T.S.B.	JOB NO.
RIDGELAND, MISSISSIPPI		
BARTH & ASSOCIATES, INC. CONSULTING ENGINEERS JACKSON, MISSISSIPPI		DRAWING NO. D-1



PLAN

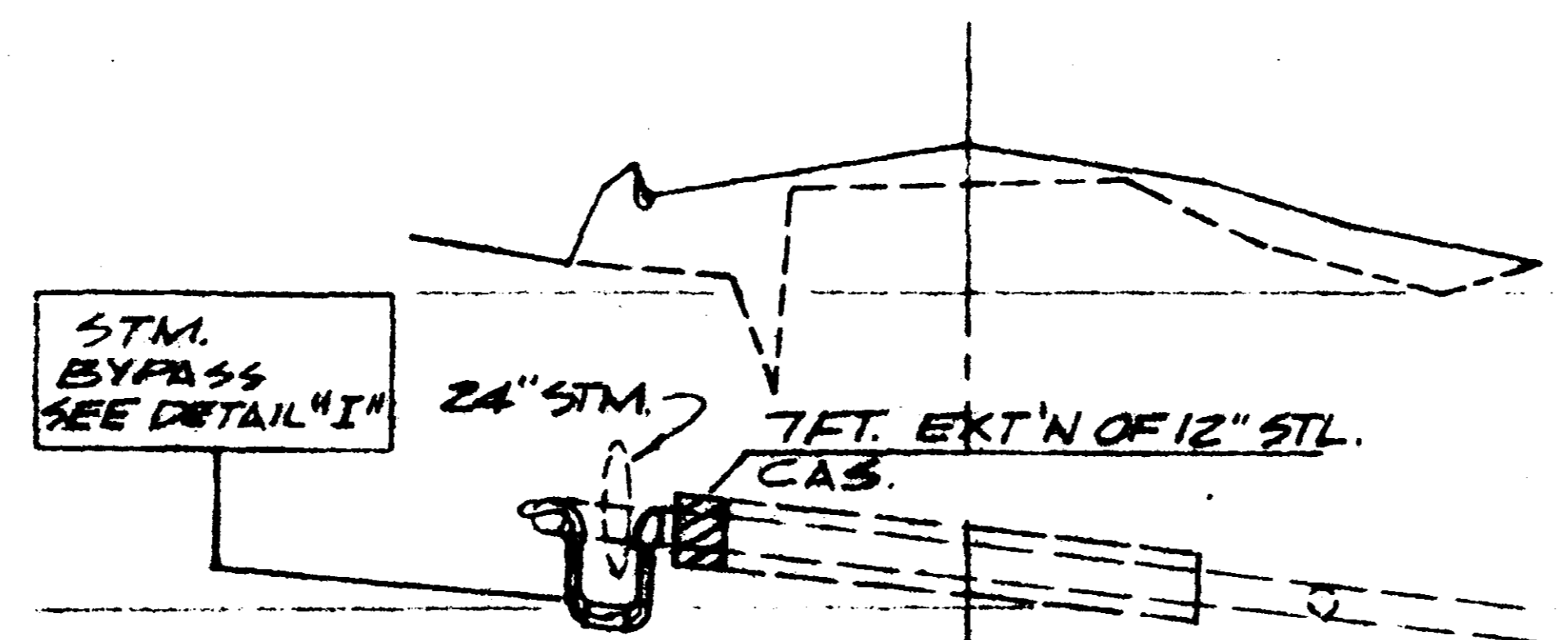
DETAIL "H" - CASING EXT'N & 6" BYPASS OF 24" STM.

(HWY. STA. 105+26 SEE DWG. NO. 15)
SCALE: 1" = 40' HOR. 1" = 5' VERT.

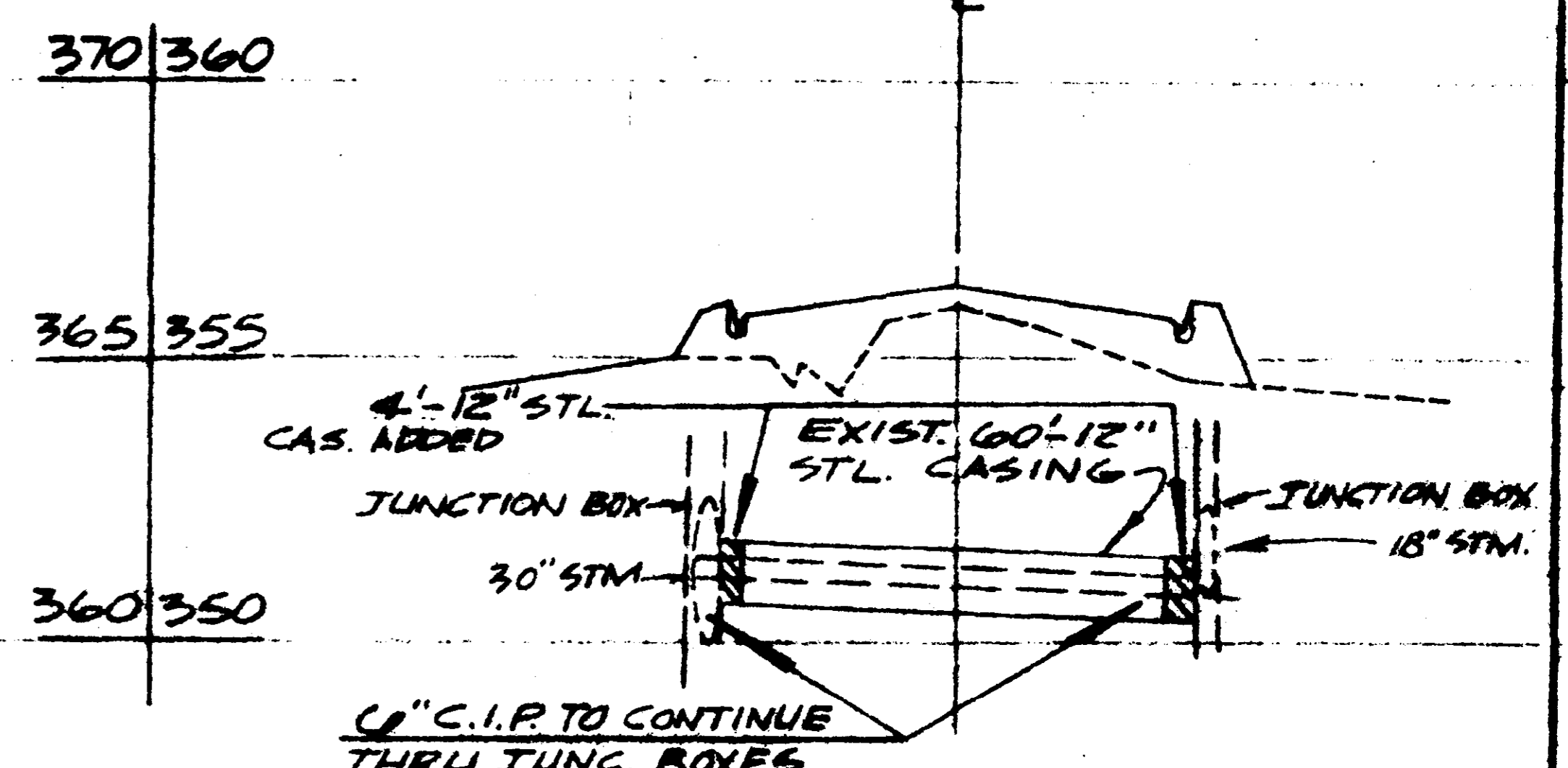


PLAN

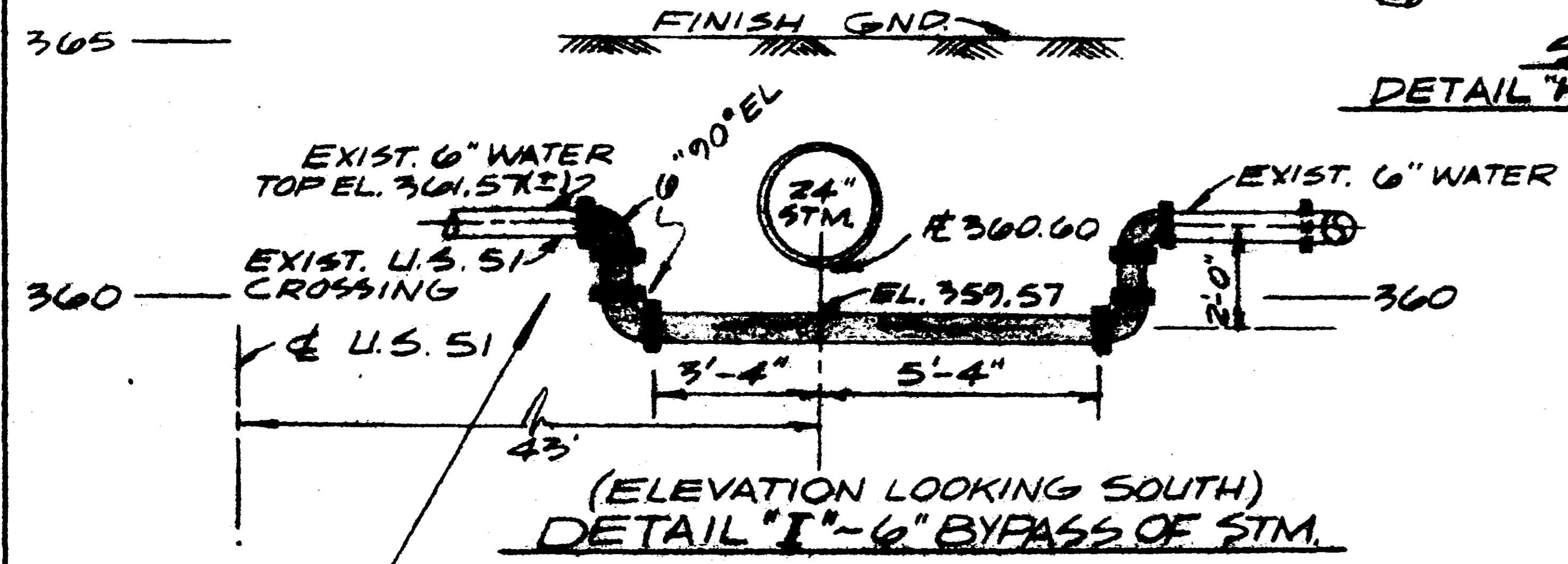
SCALE: 1" = 40'



SECTION
DETAIL "H" CASING EXT'N & BYPASS



SECTION
DETAIL "G"
12" STL. CASING EXTENSIONS
HWY. STATION 88+51 - DWG. NO. 12
SCALE: 1" = 40' HOR. 1" = 5' VERT.

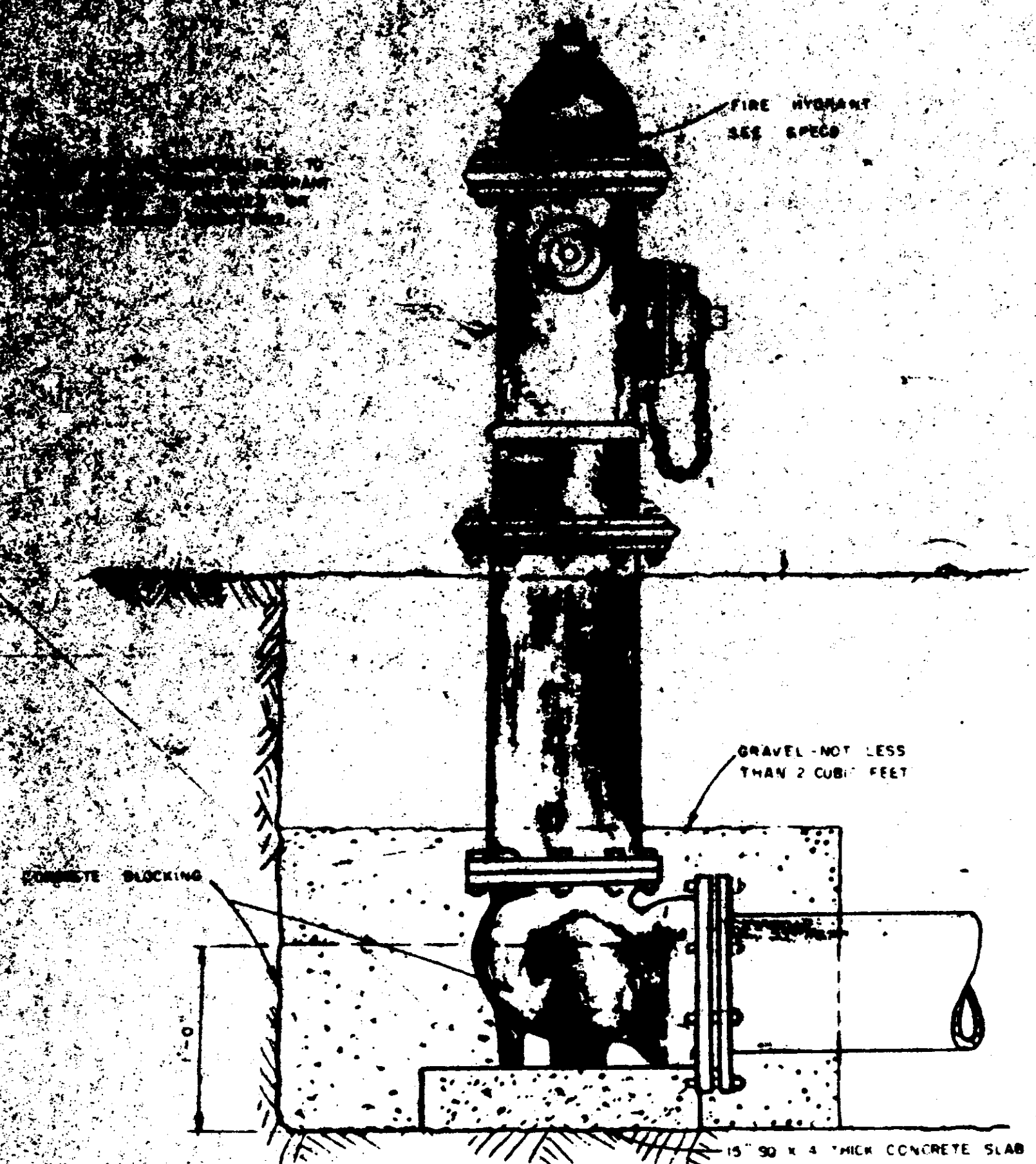


(ELEVATION LOOKING SOUTH)
DETAIL "I" - 6" BYPASS OF STM.

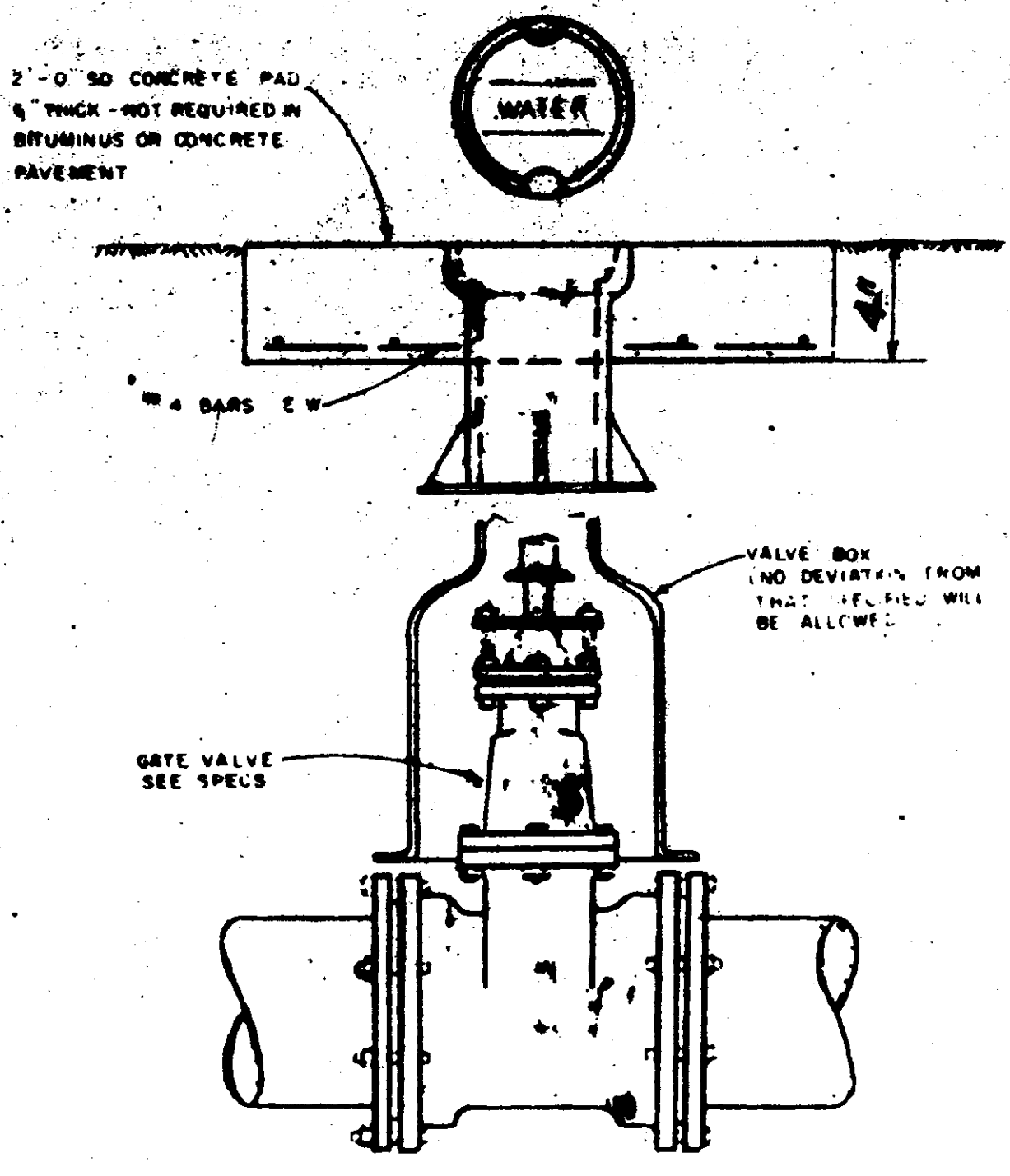
HWY. STA. 105+26 LT.
(SEE DRAWING NO. 15)
SCALE: 1/4" = 1'-0"

NOTE: USE RETAINER GLANDS AND NORMAL CONCRETE BLOCKING.

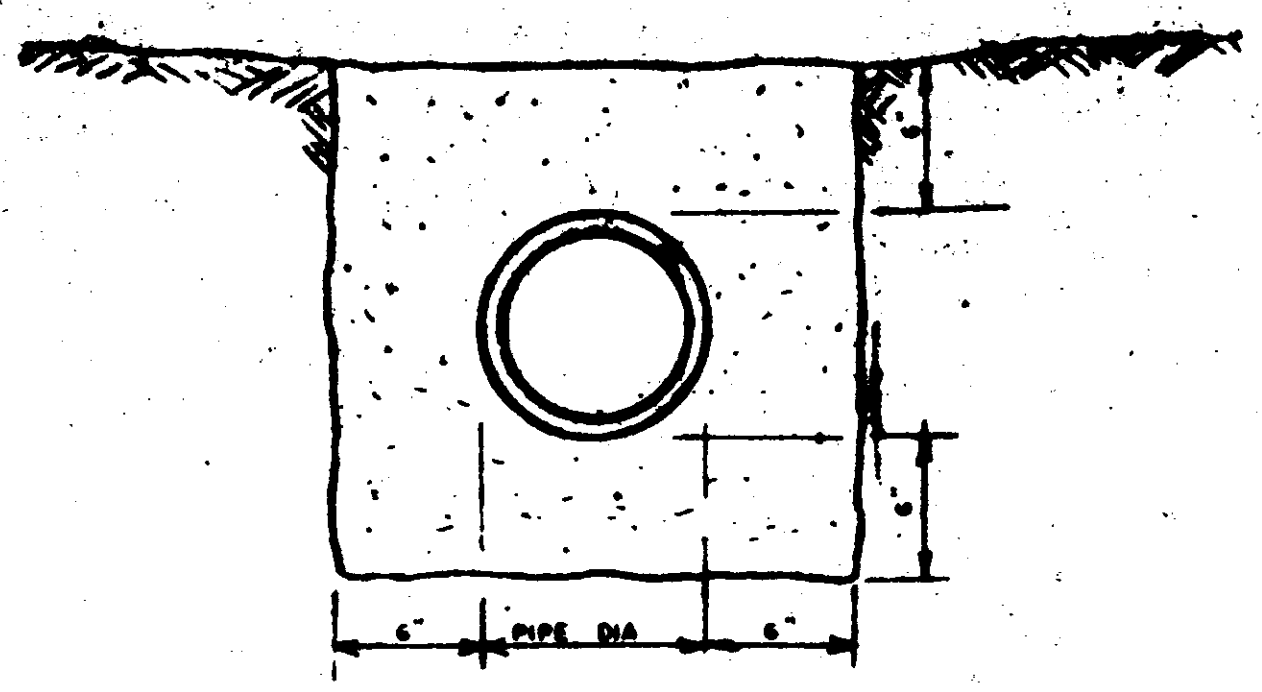
UTILITY RELOCATION		
U.S. HIGHWAY NO. 51 WIDENING		
As Shown	TSR	GEEEG
June 1, 1981	168	
BIDGELAND, MISSISSIPPI		
BARTH & ASSOCIATES, INC.		
CONSULTING ENGINEERS		
JACKSON, MISSISSIPPI		



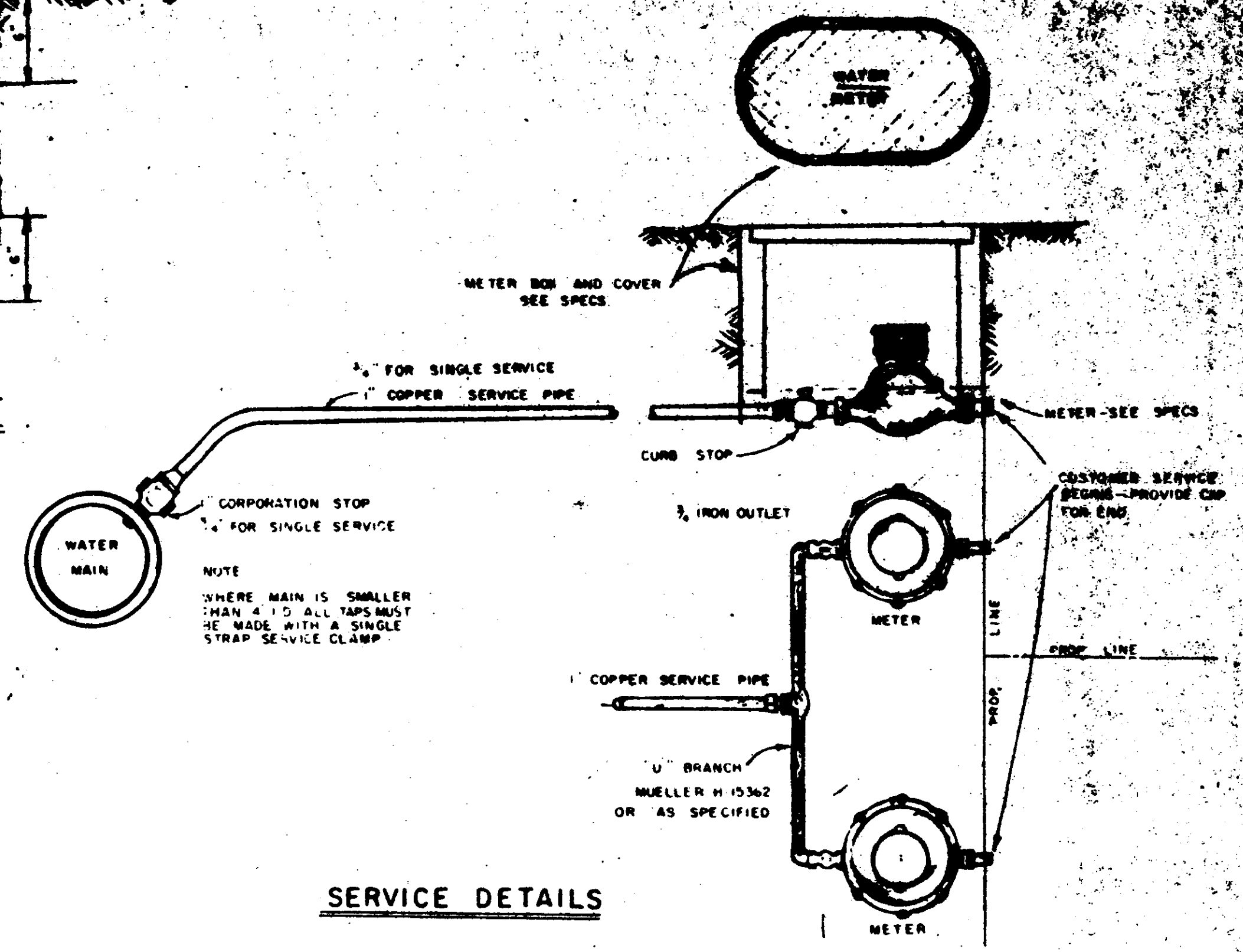
FIRE HYDRANT DETAIL



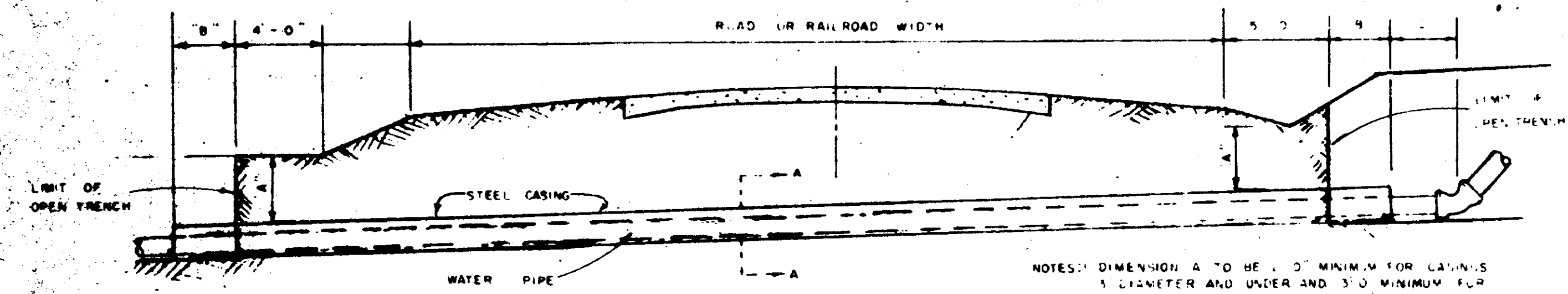
VALVE & BOX DETAIL



PIPE ENCASEMENT

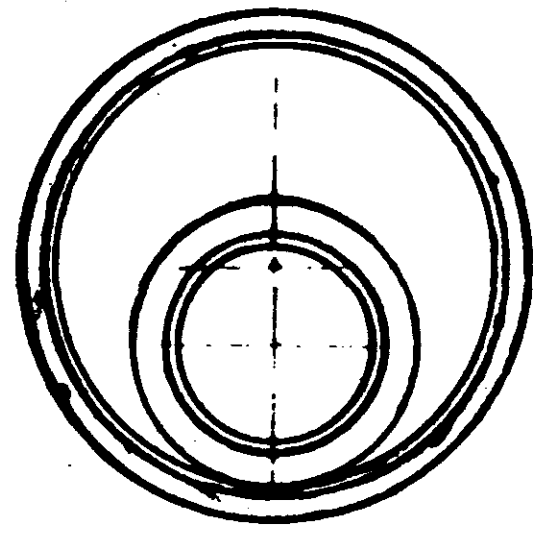


SERVICE DETAILS



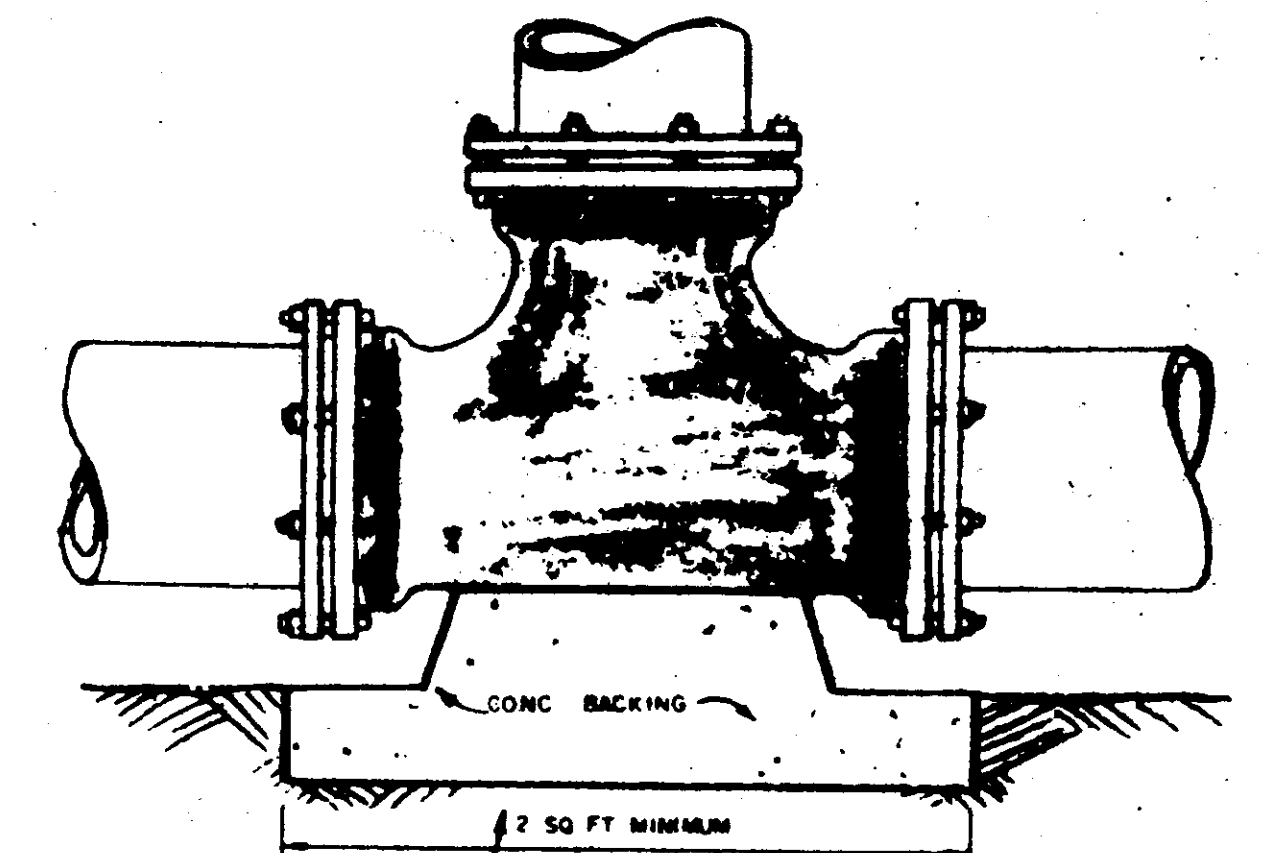
CROSSING DETAIL

NOTES:
 1. DIMENSION A TO BE 1'-0" MINIMUM FOR LINES 1/2" DIAMETER AND UNDER AND 3'-0" MINIMUM FOR LINES OVER 3" DIAMETER. B AND C TO BE 2'-0" MINIMUM FOR LINES 3" DIAMETER AND UNDER AND 4'-0" MINIMUM FOR LINES OVER 3".
 2. ENCASEMENTS TO BE INSTALLED UNDER THE ROAD BY MEANS OF JACKING THROUGH EXISTING CURBS. A HOLE THAT WILL HOLD THE CASING WITH INSUFFICIENT SUPPORT SHALL BE REJECTED.
 3. CORRUGATED METAL PIPE SHALL BE AN EXCEPTIONAL CASE FOR RAILROAD CROSSINGS. HIGHWAY CROSSINGS SHALL BE PIPE ONLY.
 4. B' DIMENSION WILL BE PAID FOR AS PIPE IN CASING.
 5. SURFACE OR JACKER CASING TO BE PAID FOR TO LIMIT OF OPEN TRENCH ONLY.
 6. WHERE THERE IS CONFLICT WITH THE PLANS AND HIGHWAY AND RAILROAD CROSSING PERMITS THE APPROVED PERMITS WILL GOVERN.



SECTION A-A

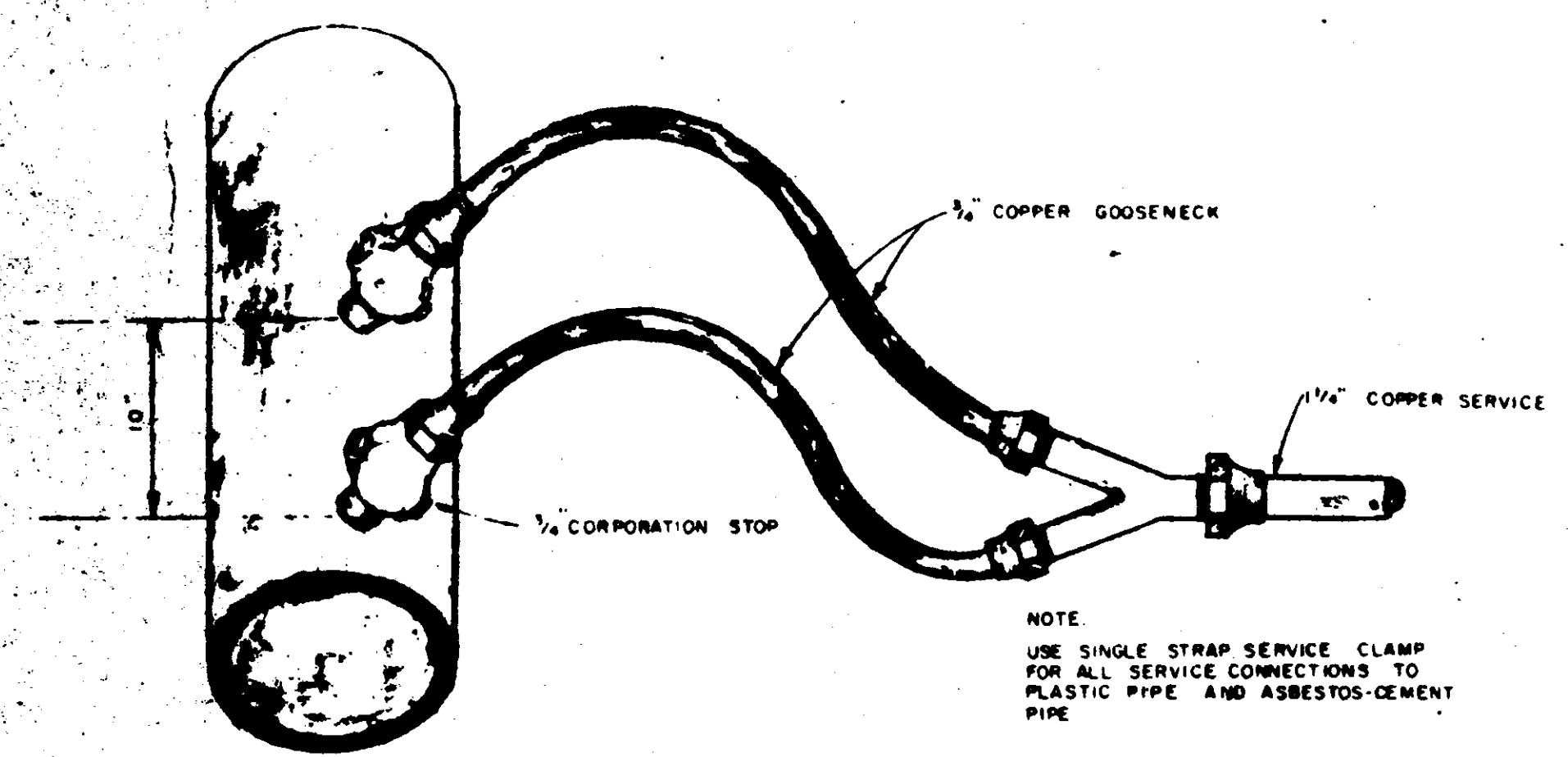
API SCHEDULE 40 STEEL PIPE ENCASEMENT FOR 10" PIPE



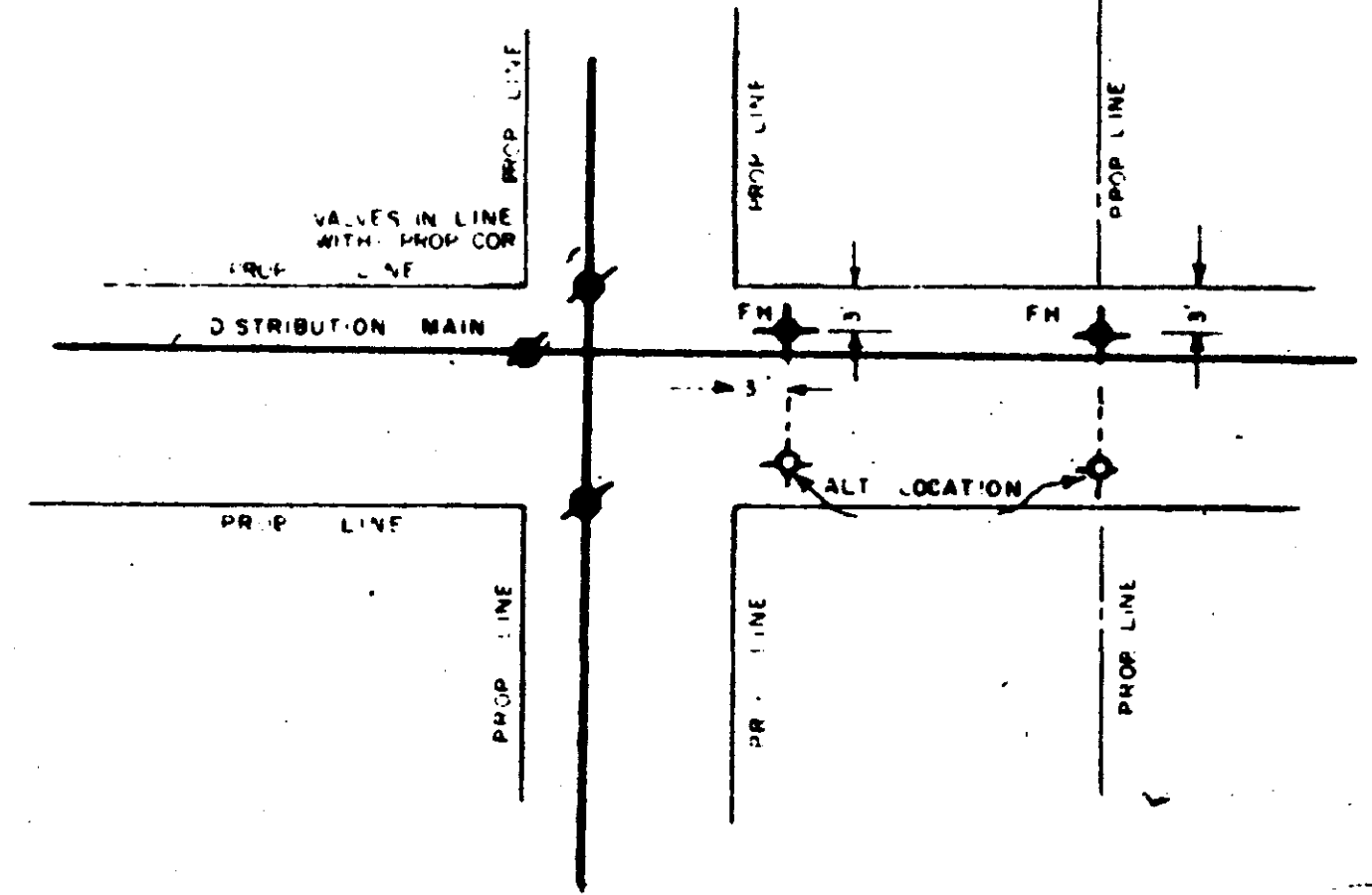
BEND & TEE DETAILS

NOTE:
 2.50 SQ. FT. MINIMUM AREA IN CONTACT WITH UNDISTURBED EARTH - LEAVE FITTINGS AND JOINTS ACCESSIBLE

GENERAL NOTES:
 1. NO ADDITIONAL COMPENSATION WILL BE ALLOWED FOR USE OF ADDITIONAL FITTINGS, WHERE UNDERGROUND OBSTACLES ARE ENCOUNTERED, WITHOUT WRITTEN APPROVAL OF THE ENGINEER.
 2. ALL WATER LINES WITHIN ROW LIMITS OF HIGHWAYS AND RAILROADS ARE TO BE INSTALLED IN STRICT ACCORDANCE WITH THE APPROVED PERMITS.
 3. CONTRACTOR WILL COORDINATE THE LOCATION OF EXISTING UTILITIES WITH THE PROPER AUTHORITIES.

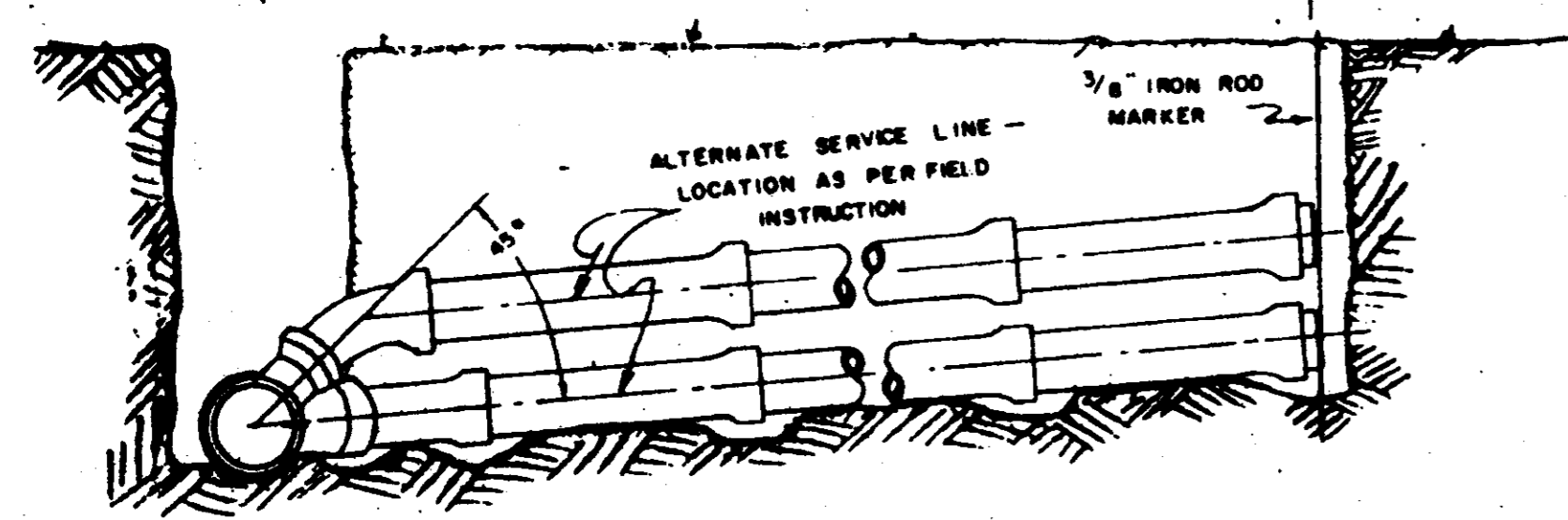
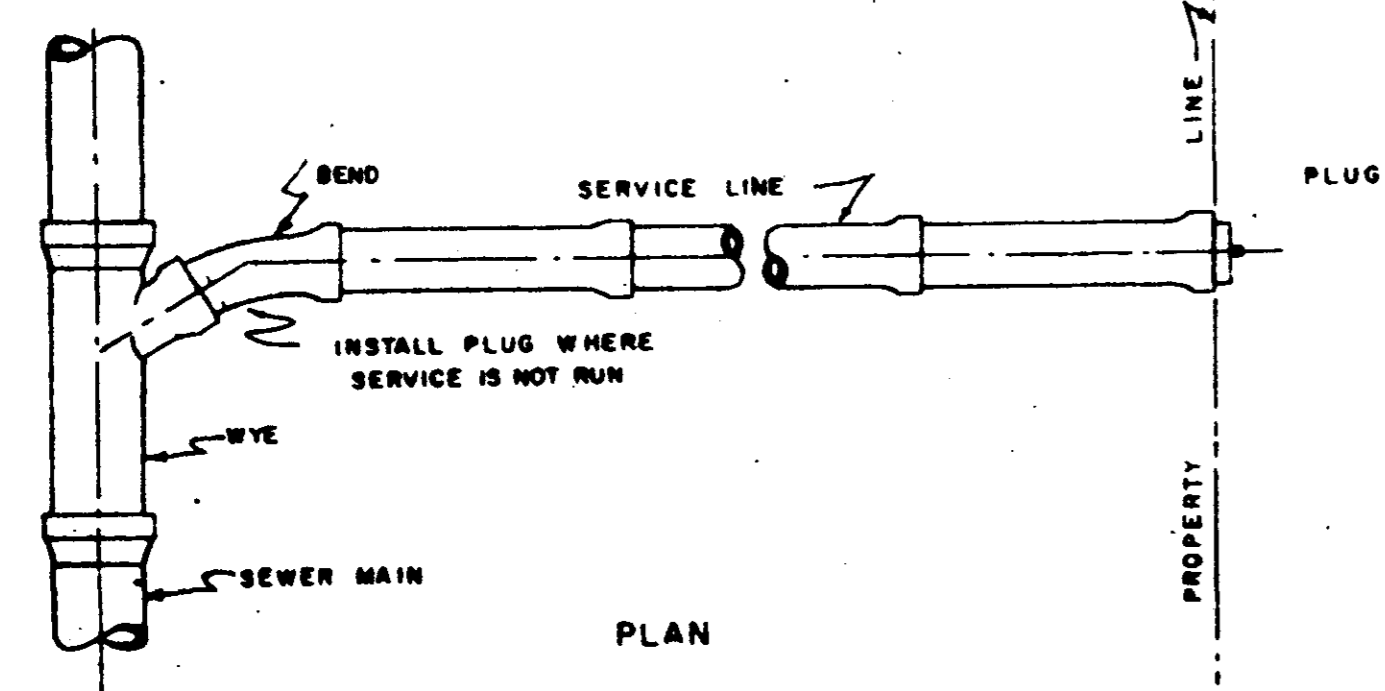


SERVICE CONNECTIONS

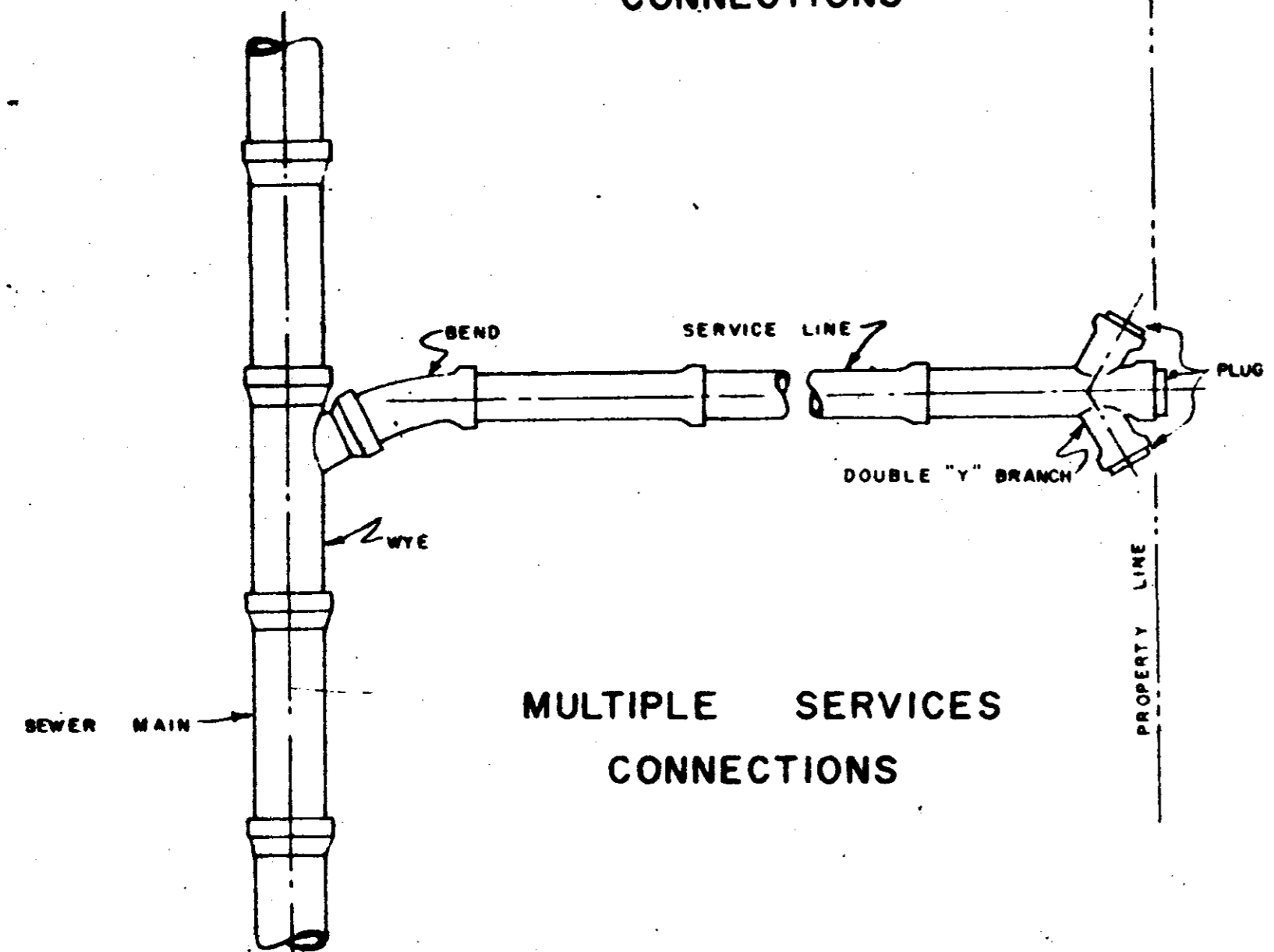


TYPICAL DETAIL OF VALVE AND HYDRANT LOCATIONS

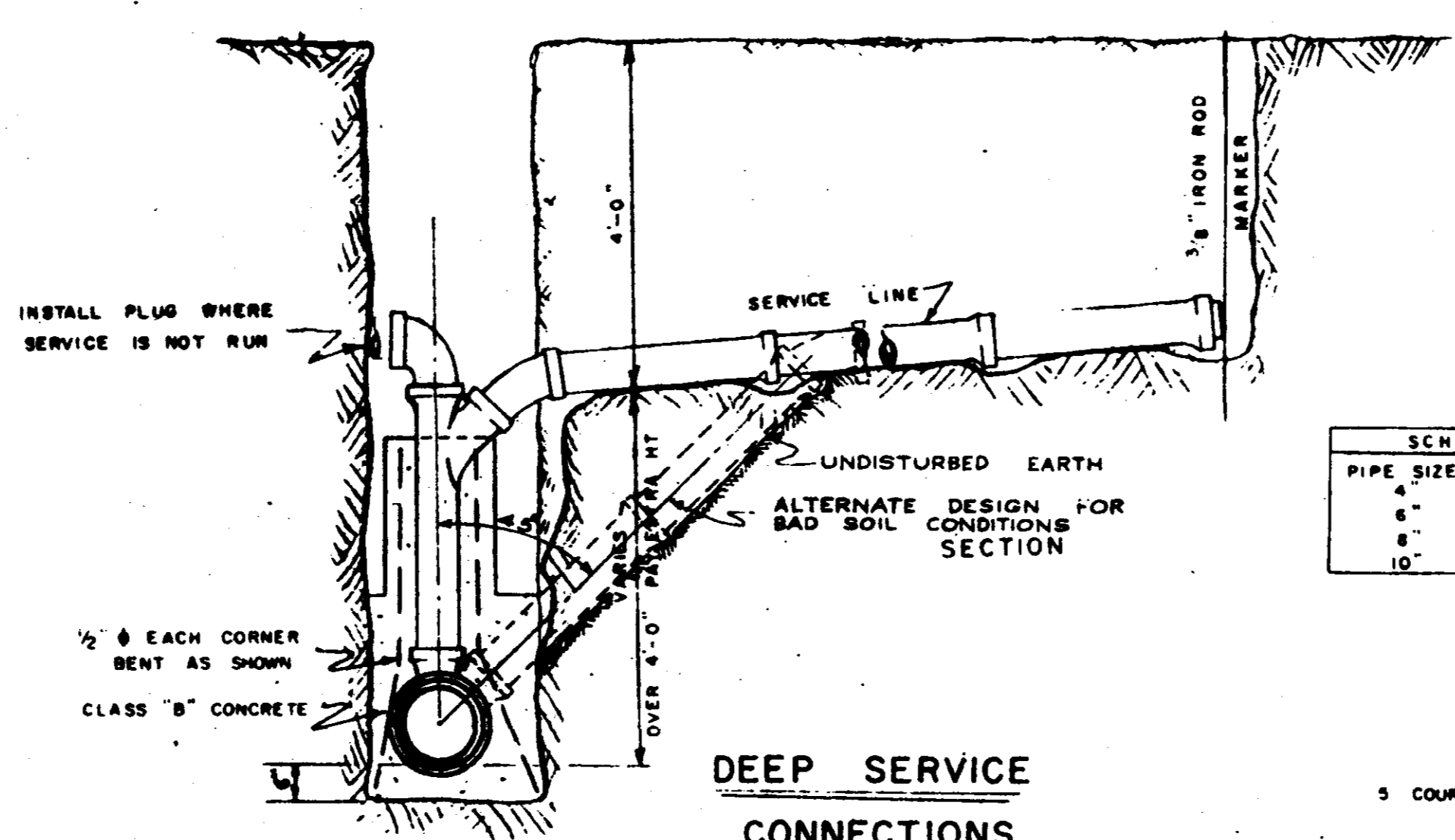
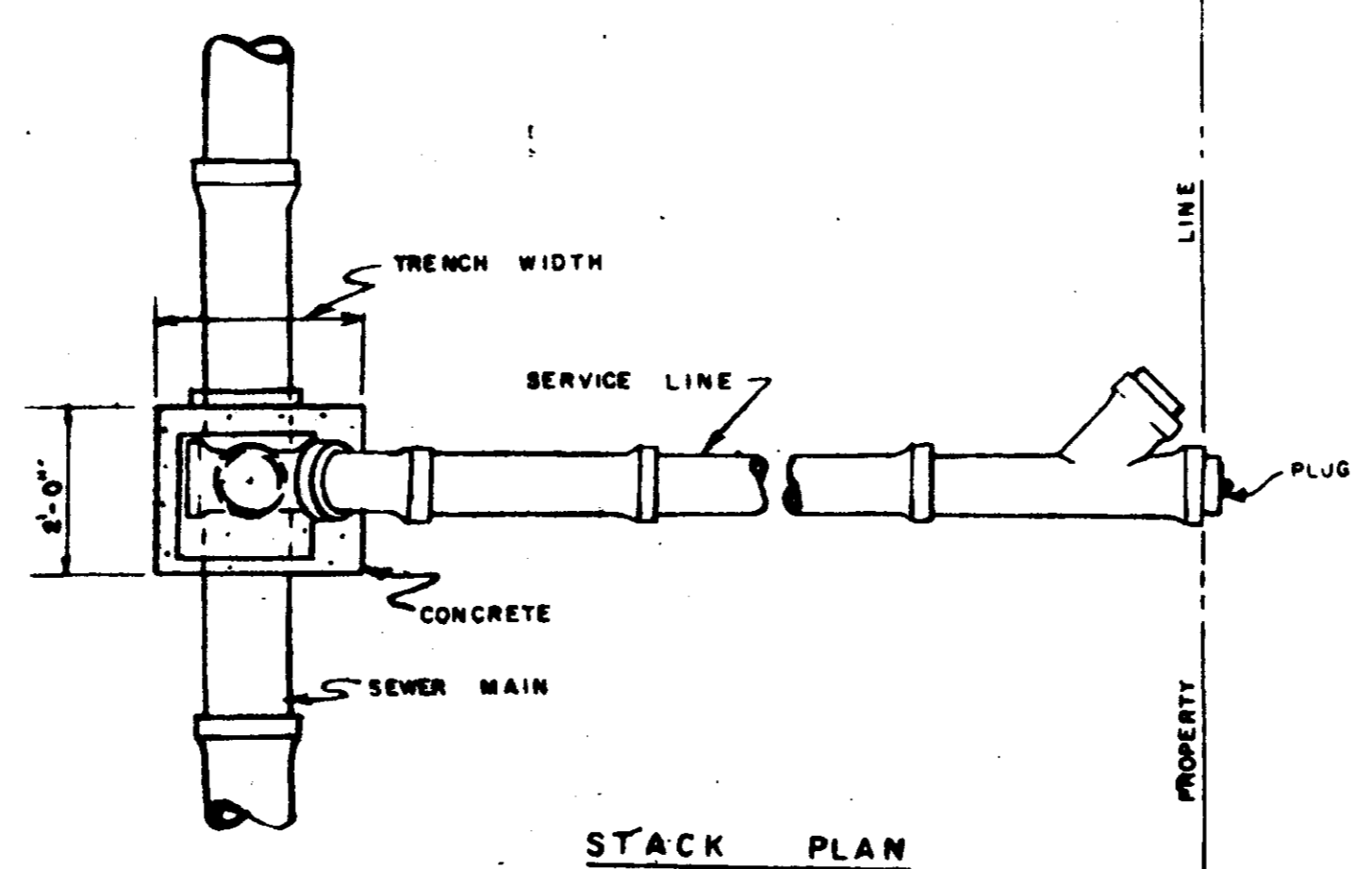
STANDARD DETAIL SHEET	
WATER	
SCALE: NO SCALE	DESIGNED BY: T.S.B.
DATE: APR 1981	APPROVED BY: T.S.B.
RIDGELAND, MISSISSIPPI	
BARTH & ASSOCIATES, INC.	
CONSULTING ENGINEERS	
JACKSON, MISSISSIPPI	
	SD-1



SHALLOW SERVICES CONNECTIONS

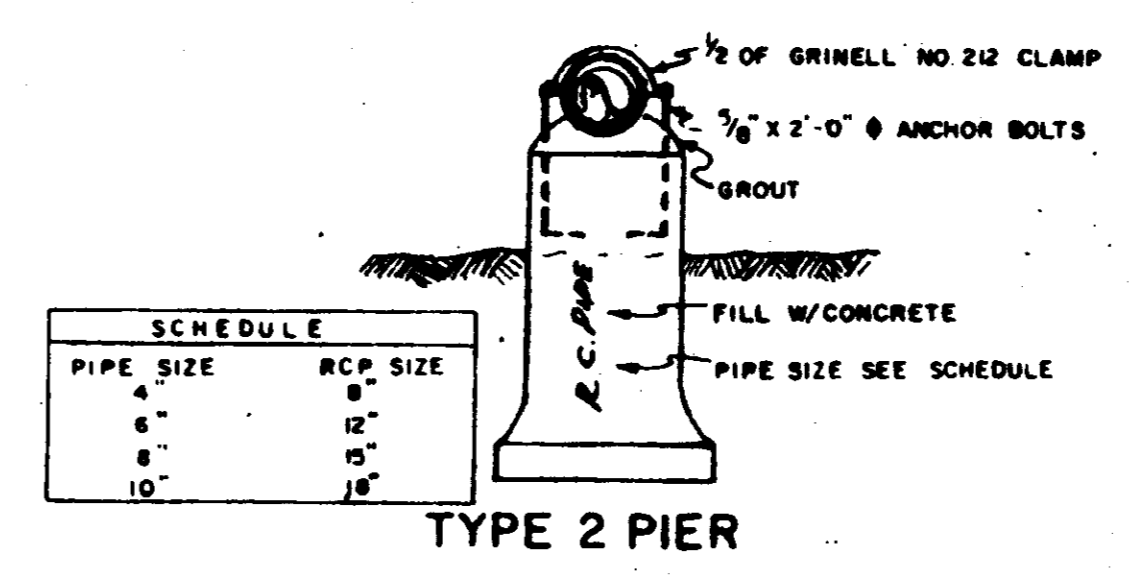
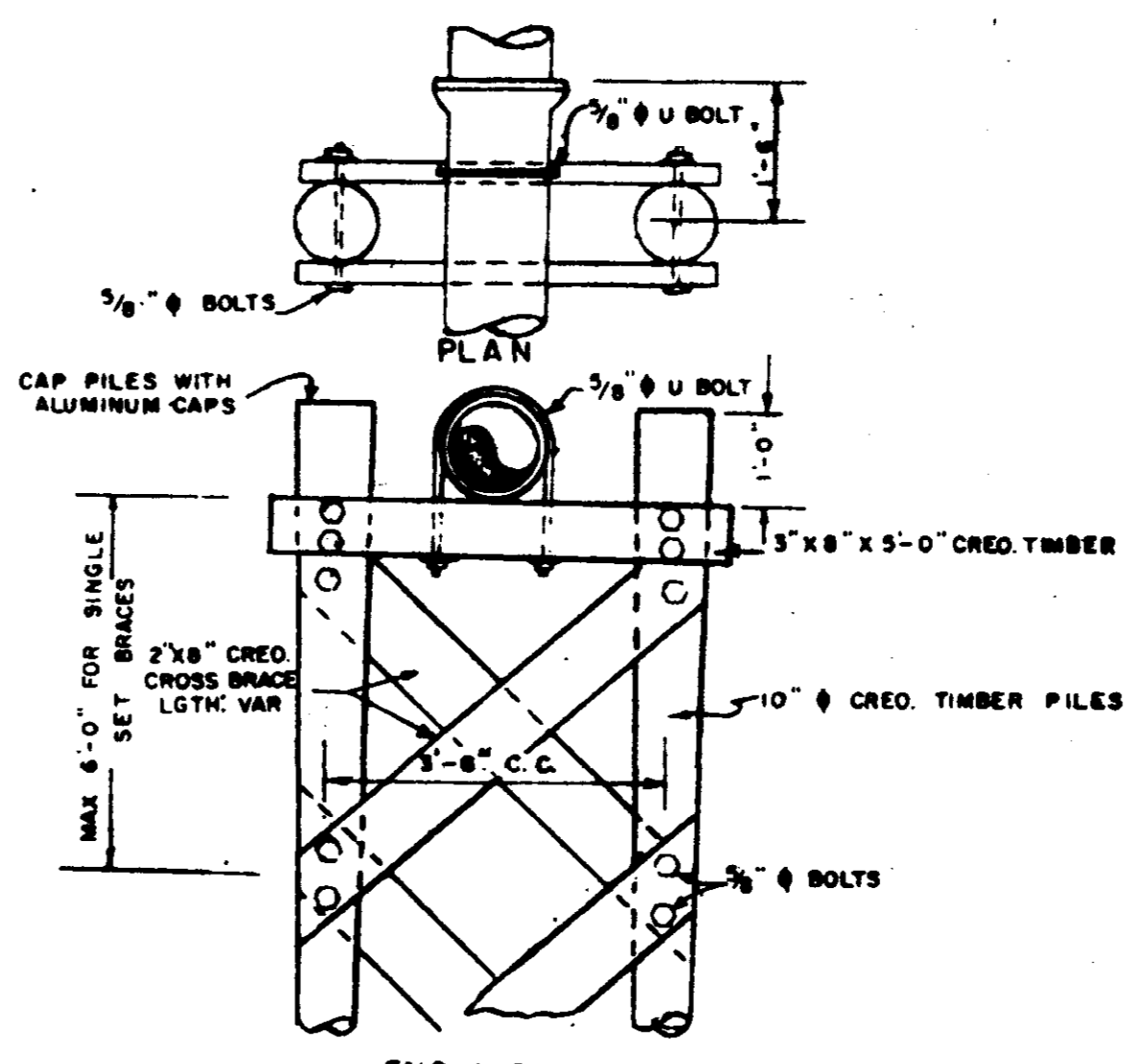


MULTIPLE SERVICES CONNECTIONS

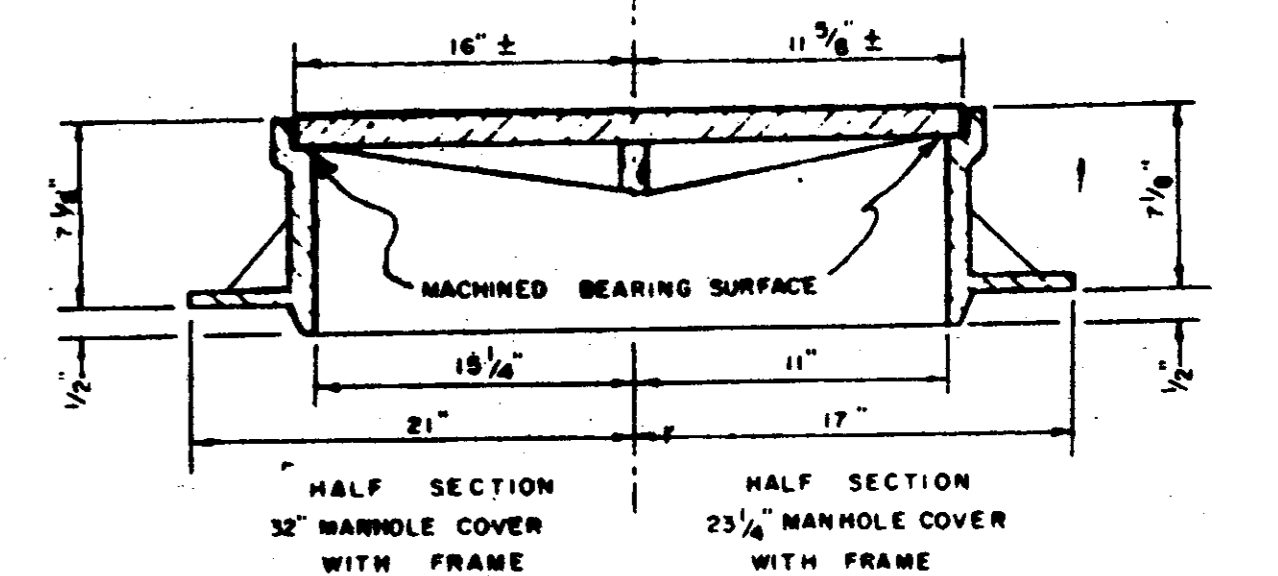
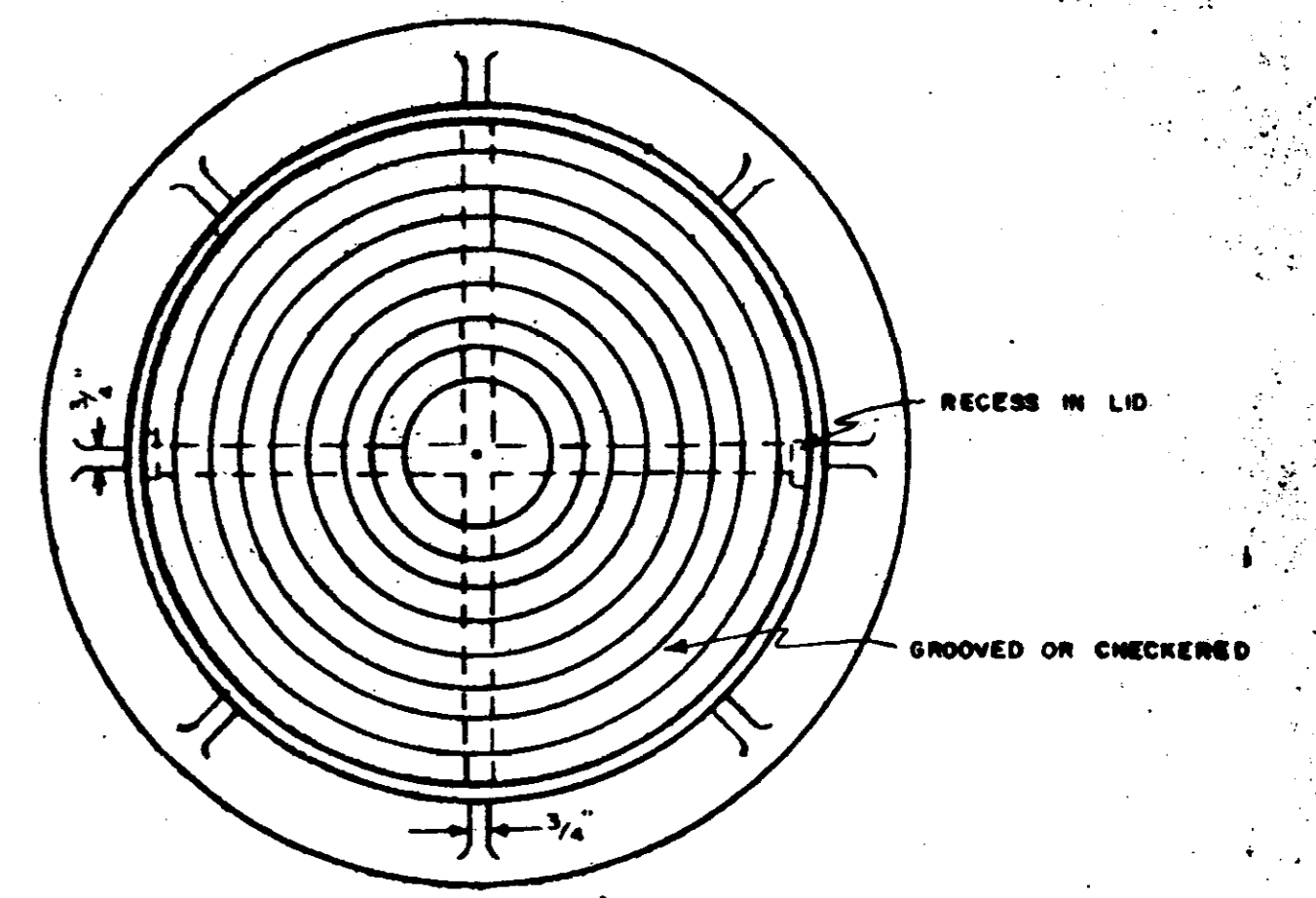


DEEP SERVICE CONNECTIONS

NOTE APPLIES TO CUTS OVER 8'-0"

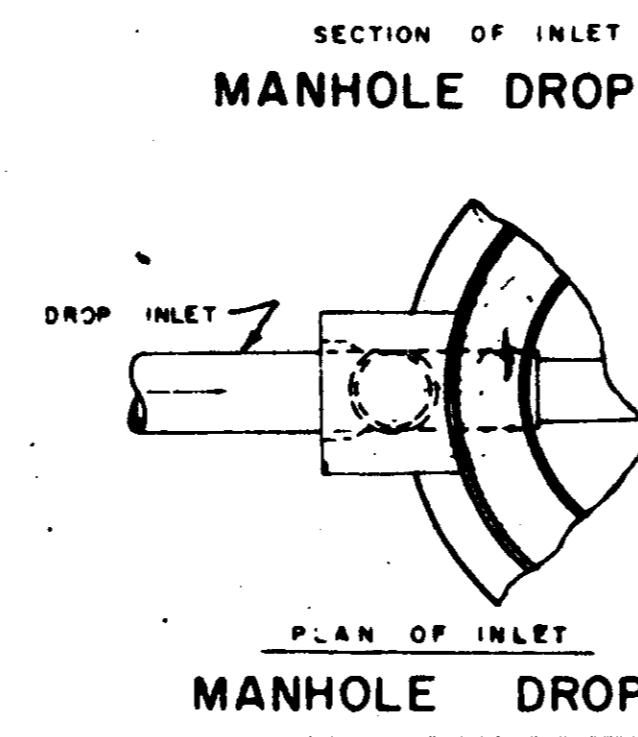
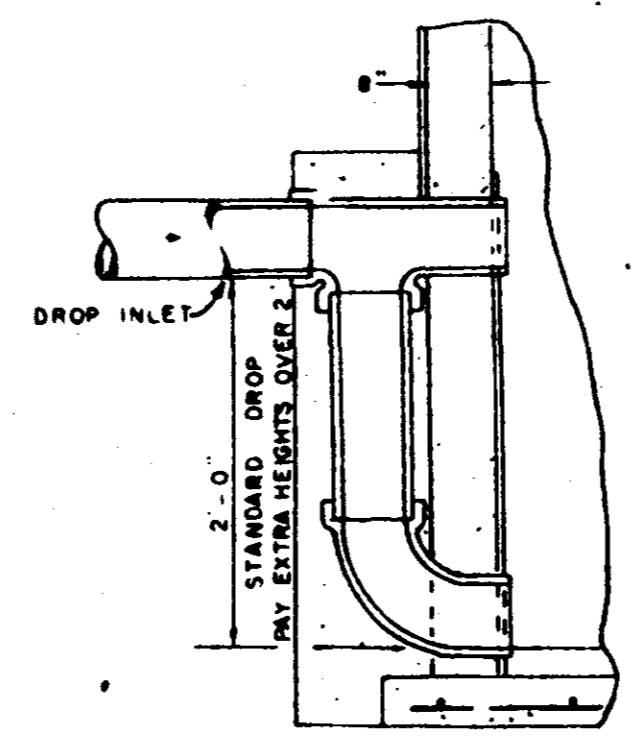
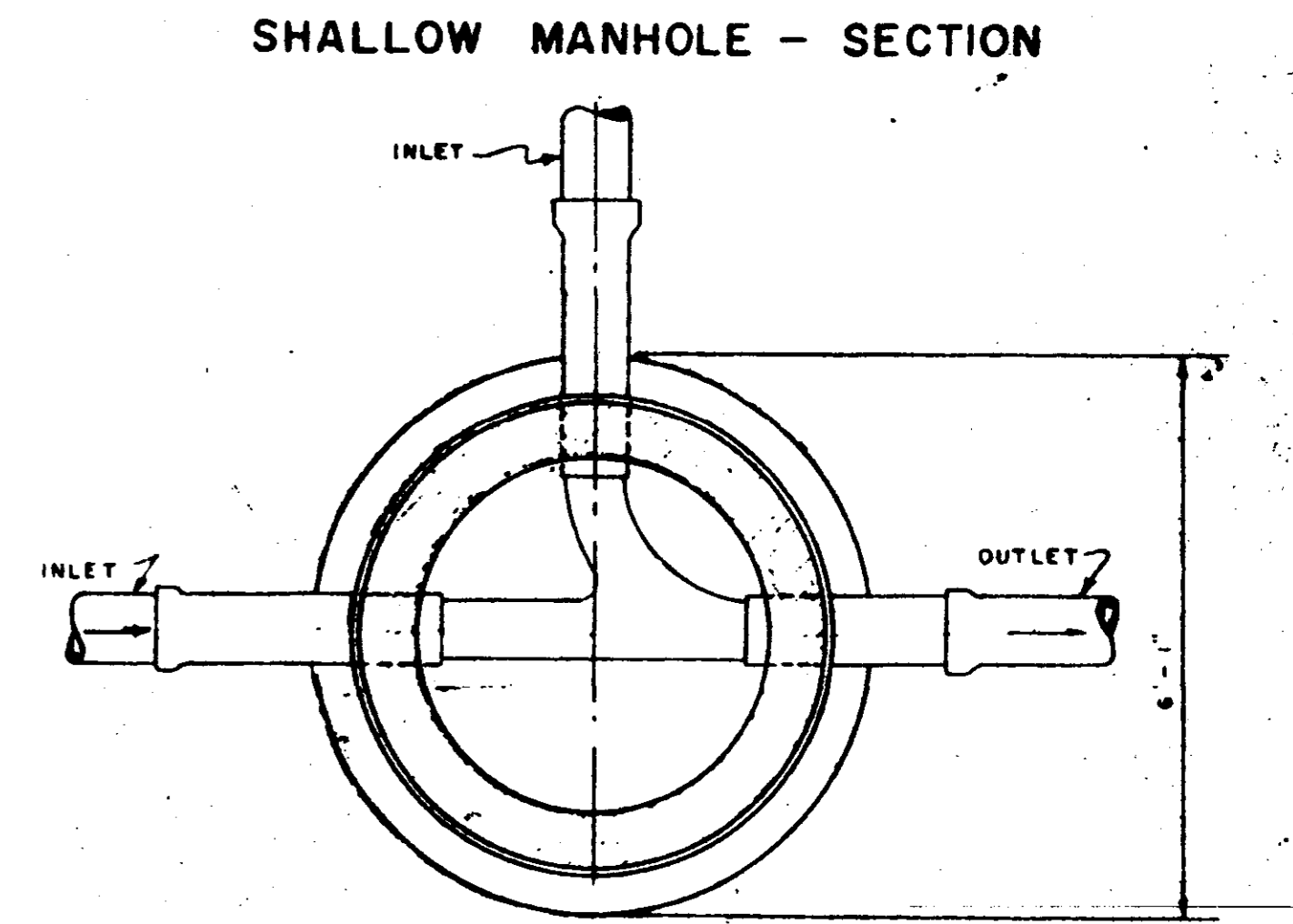
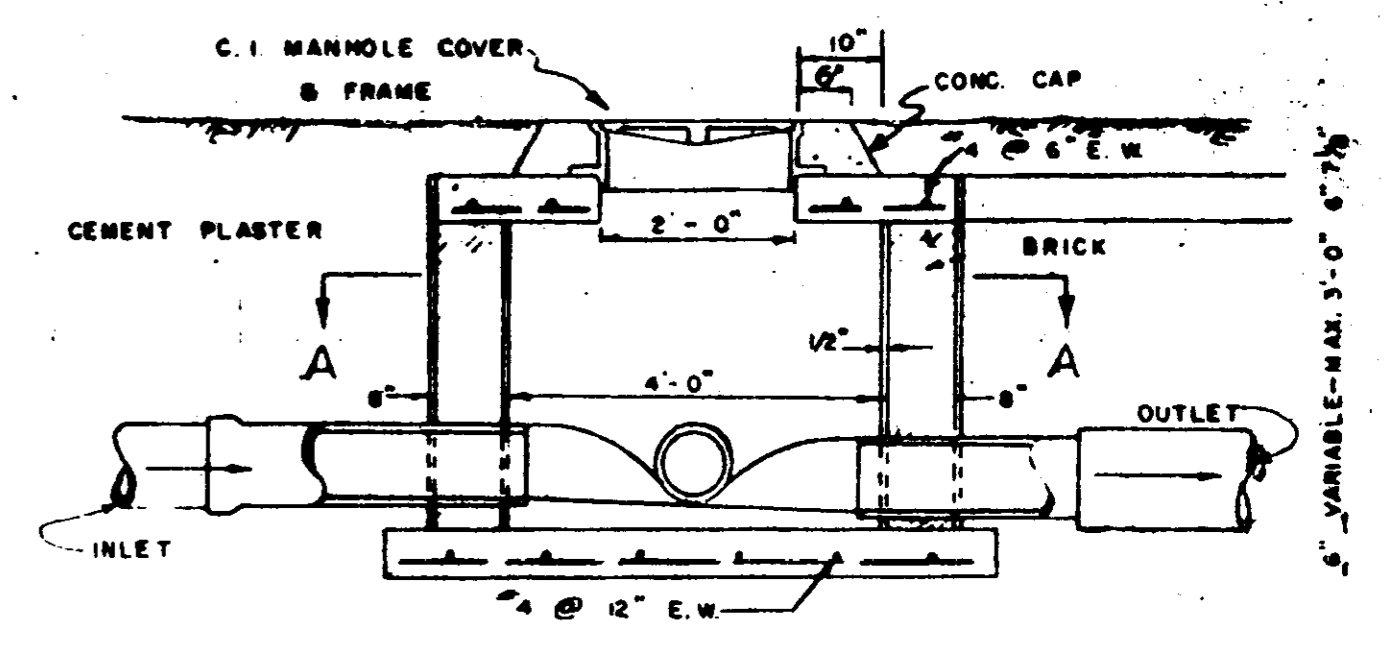
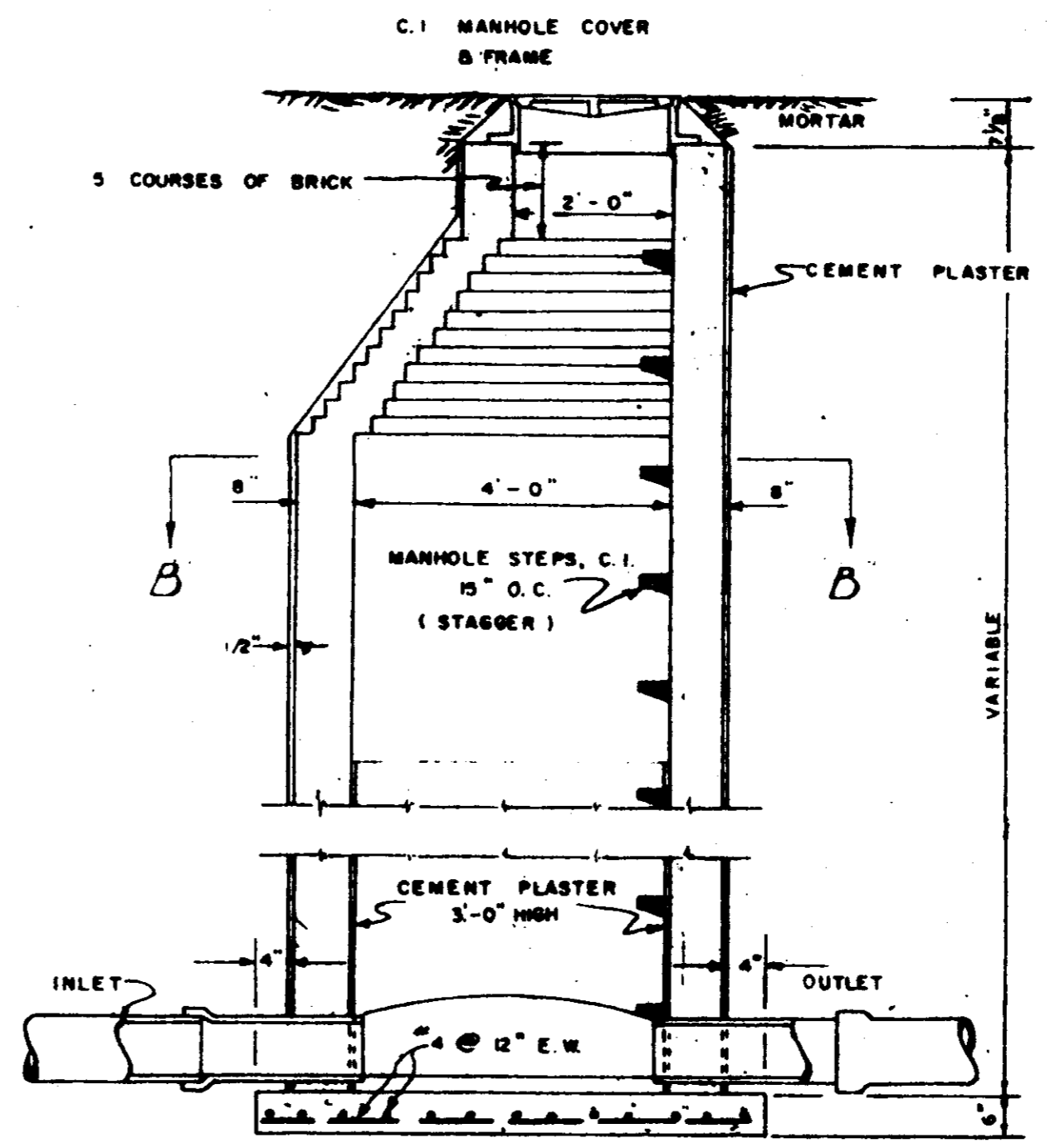


PIPE SIZE	RCP SIZE
4"	8"
6"	12"
8"	15"
10"	18"

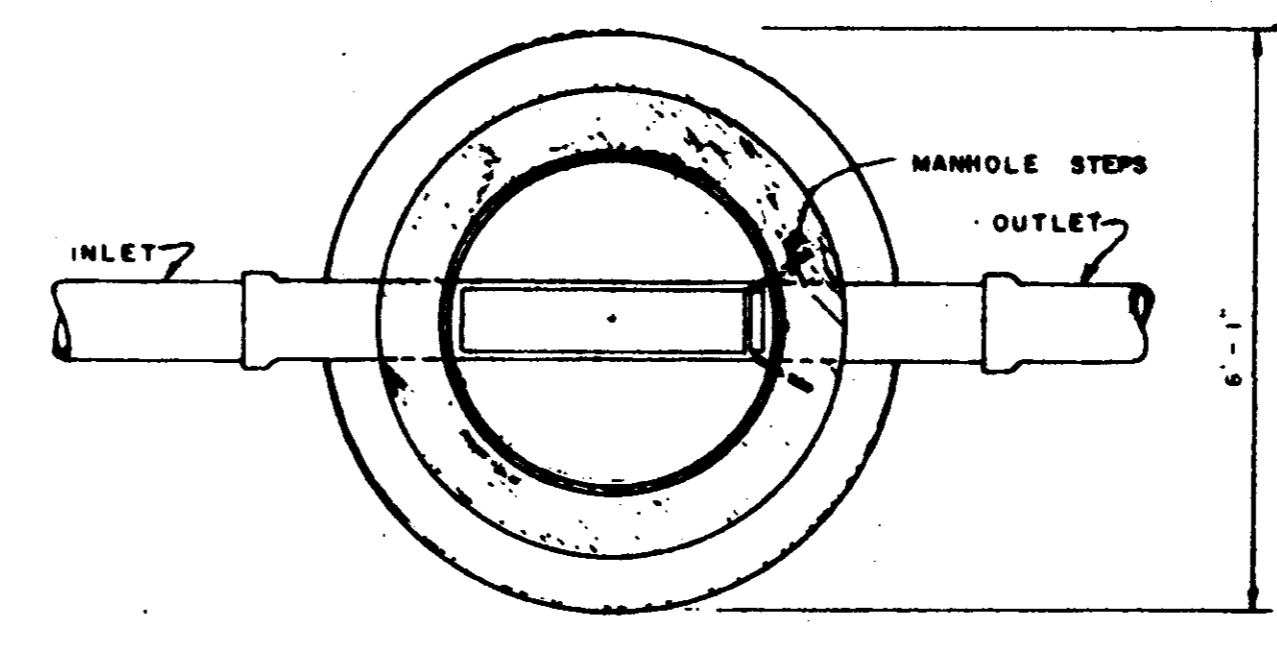


STANDARD MANHOLE FRAME & COVER

- NOTE:
- 25 1/4" M.H. FRAME AND COVER SHALL WEIGH NOT LESS THAN 360 LBS.
 - 32" M.H. FRAME AND COVER SHALL WEIGH NOT LESS THAN 750 LBS.
 - MATERIAL: CAST IRON A.S.T.M. A-48, CLASS #20



PIPE	GRAVEL	CONCRETE CRADLE	CONCRETE ENCASEMENT	SHELL
6"	0.060	0.030	0.075	0.060
8"	0.068	0.034	0.085	0.068
10"	0.076	0.038	0.100	0.076
12"	0.082	0.043	0.115	0.082
14"	0.088	0.048	0.130	0.088
16"	0.124	0.062	0.180	0.124
18"	0.132	0.071	0.210	0.132
24"	0.155	0.090	0.260	0.155



NOTE: WHERE CONTRACTOR OPTIONS TO USE PRECAST CONCRETE MANHOLES, THEY SHALL BE MANUFACTURED IN ACCORDANCE WITH ASTM C-478. JOINTS SHALL BE GASKETED OR AN APPROVED MASTIC SHALL BE USED.

STANDARD DETAIL SHEET
SEWERAGE

SCALE: NONE
DATE: JUNE 1981
DESIGNED BY: T.S.B.
APPROVED BY: T.S.B.
DRAWN BY:
JOB NO:

RIDGELAND, MISSISSIPPI
BARTH & ASSOCIATES, INC.
CONSULTING ENGINEERS
JACKSON, MISSISSIPPI

SD-2