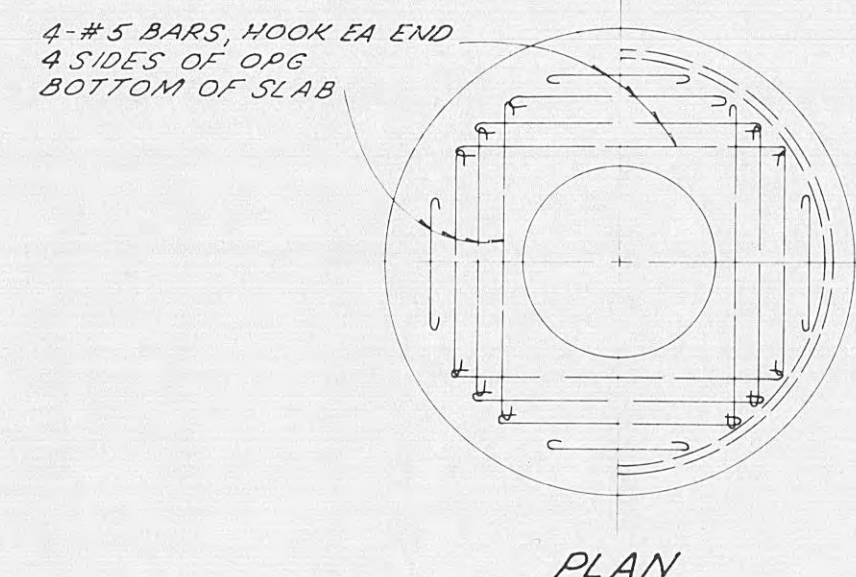
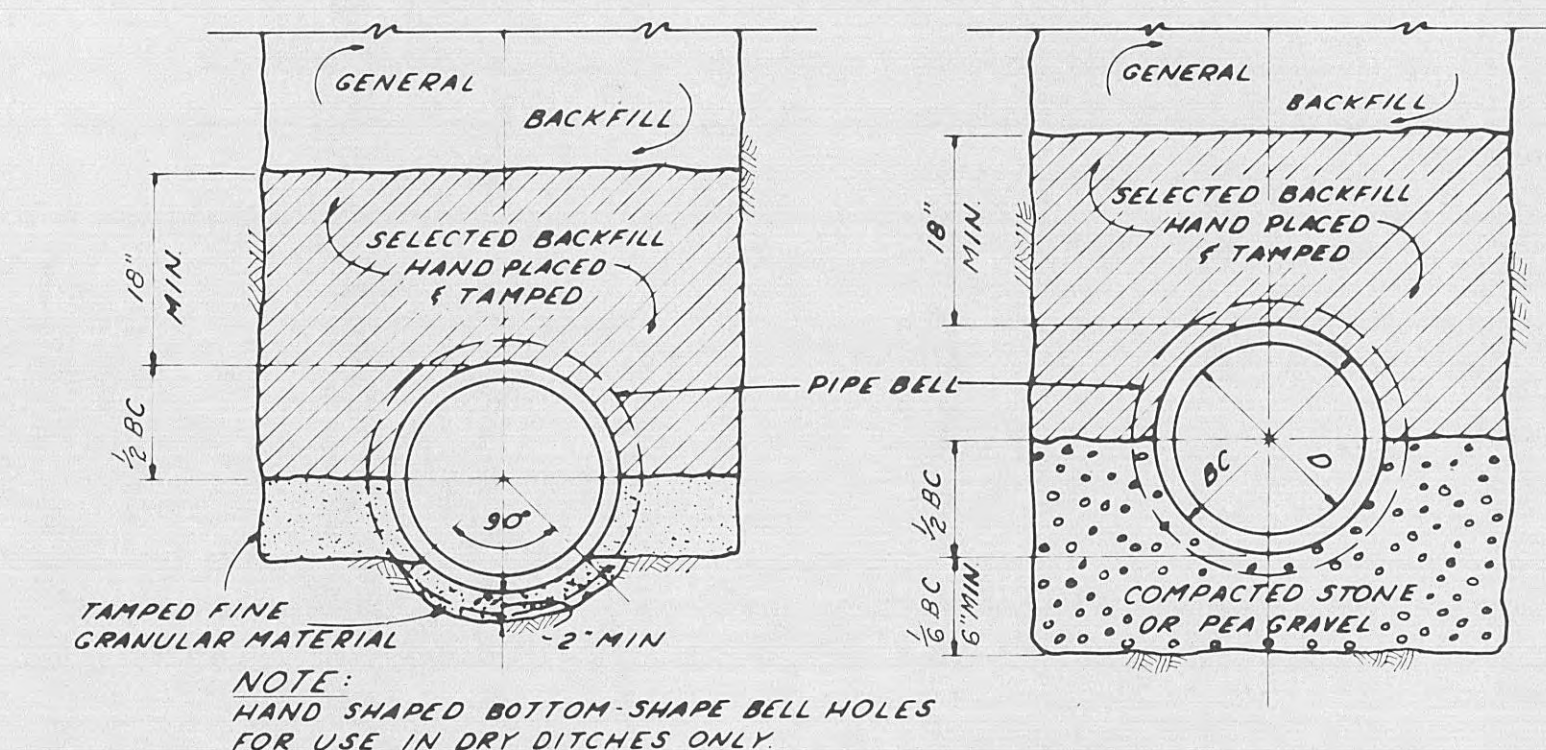
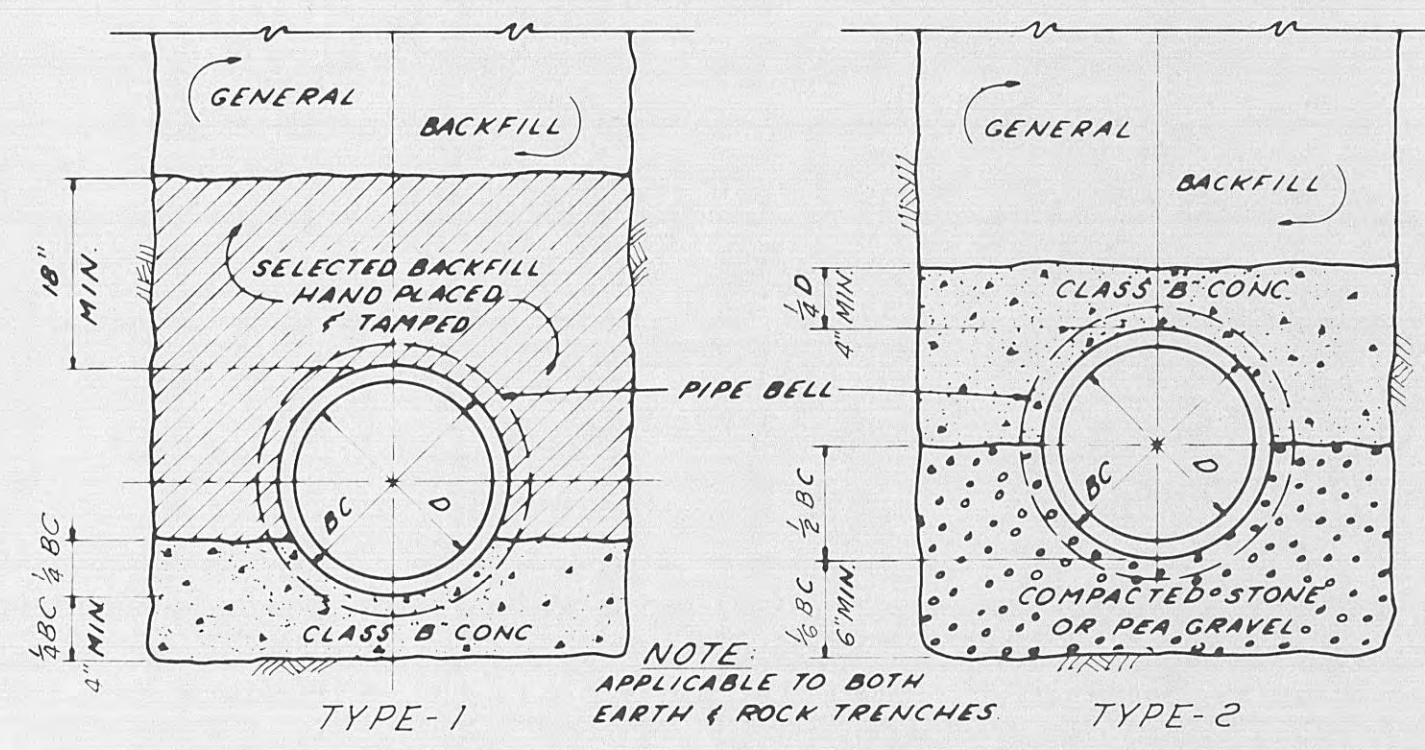
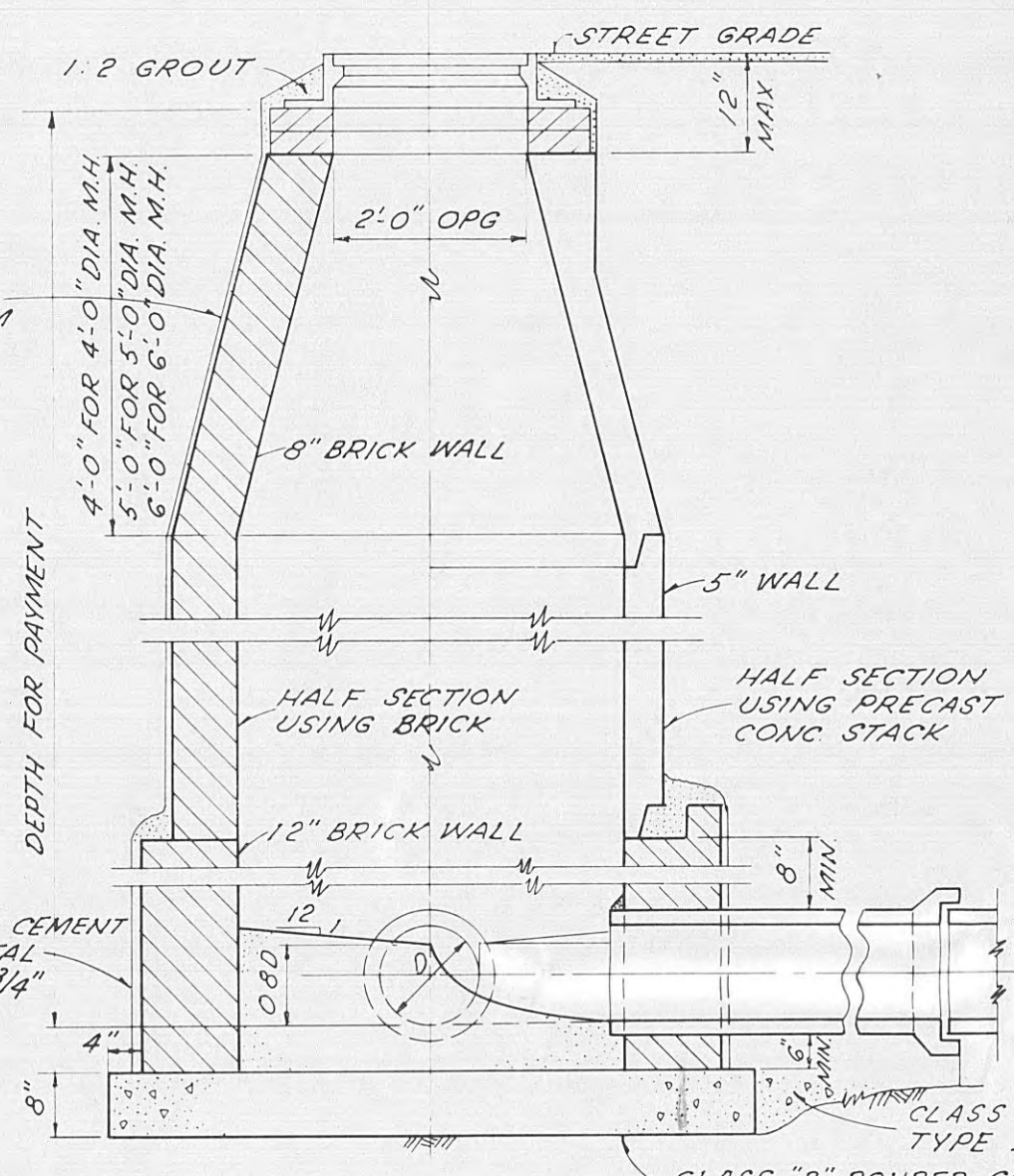


GOVERNING DIMENSIONS FOR CIRCULAR MANHOLES			
PIPE SIZE	DEFLECTION	M.H. DIA.	"X"
8" & 15"	0" - 90"	4' - 0"	1' - 10"



WATERPROOFING - 1 COAT OF INERTOL STANDARD THICK AT THE RATE OF 1 GALLON PER 125 SQ. FT. WATERPROOF WALLS FROM 18" BELOW FINISH GRADE DOWN TO AND OVER FOOTINGS

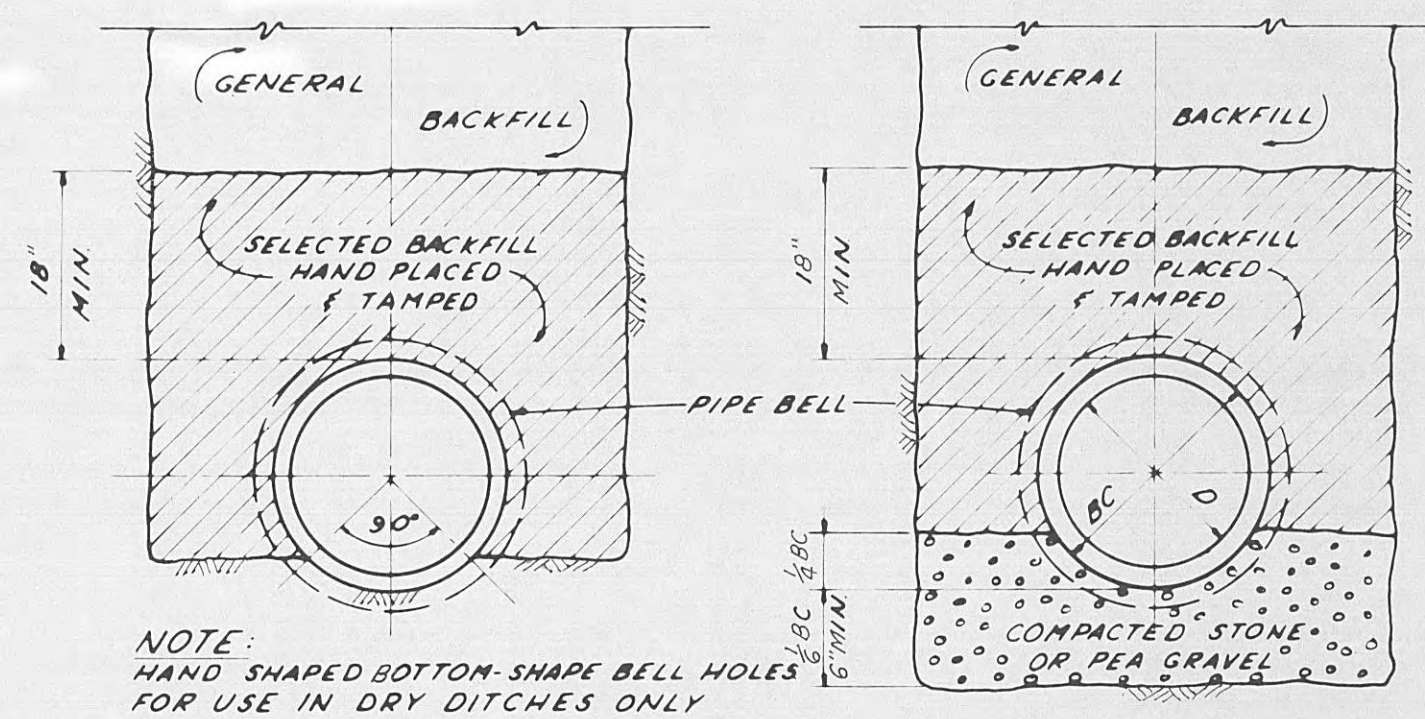


CLASS "A" BEDDING USE EITHER TYPE

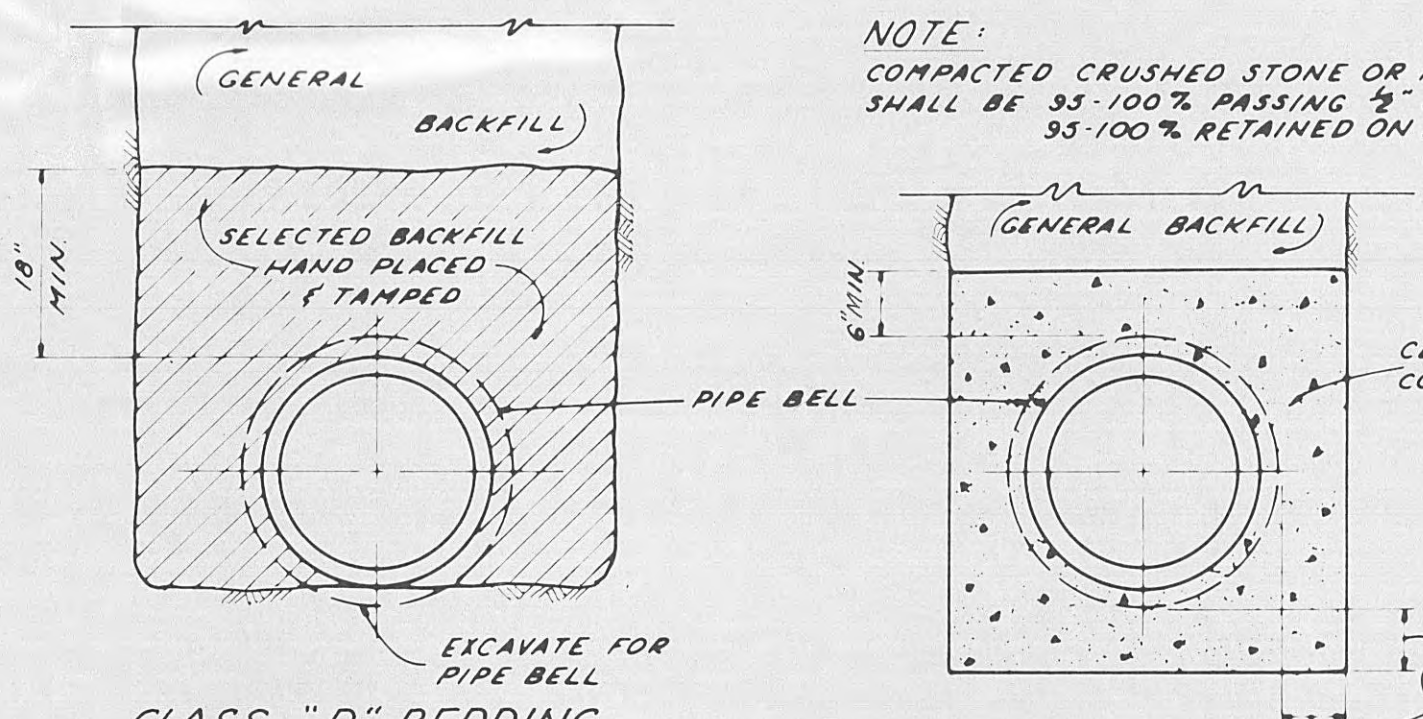
NOTE: BG = BREADTH OF CONDUIT

CLASS "B" BEDDING USE EITHER TYPE

NOTE: COMPACTED CRUSHED STONE OR PEA GRAVEL SHALL BE 95-100% PASSING 2" SIEVE 95-100% RETAINED ON NO. 4 SIEVE

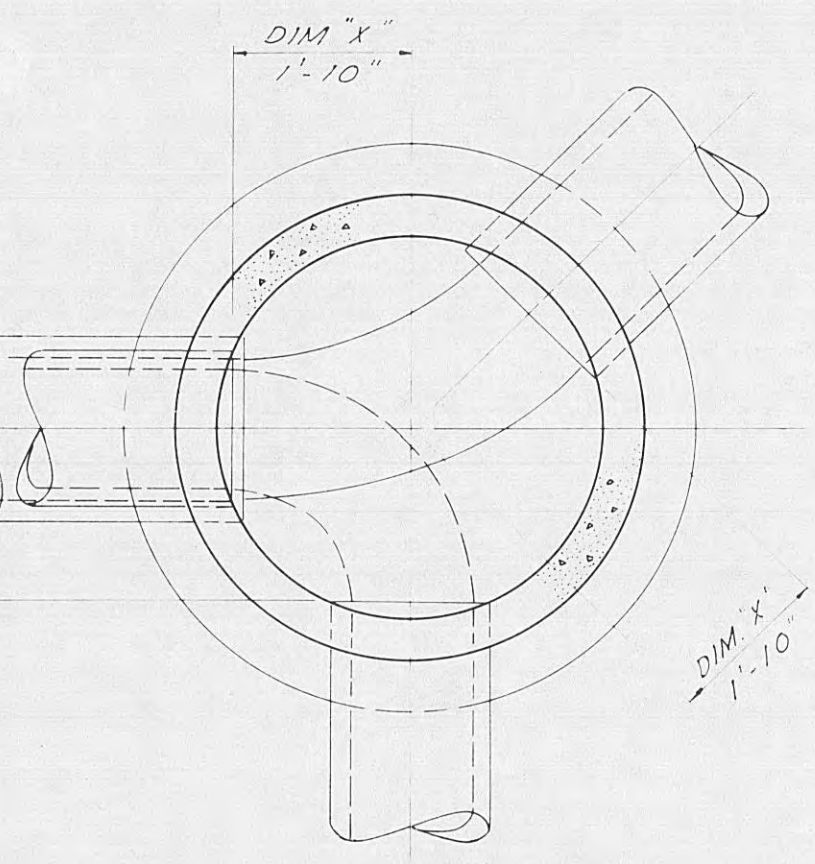


CLASS "C" BEDDING USE EITHER TYPE



CLASS "D" BEDDING

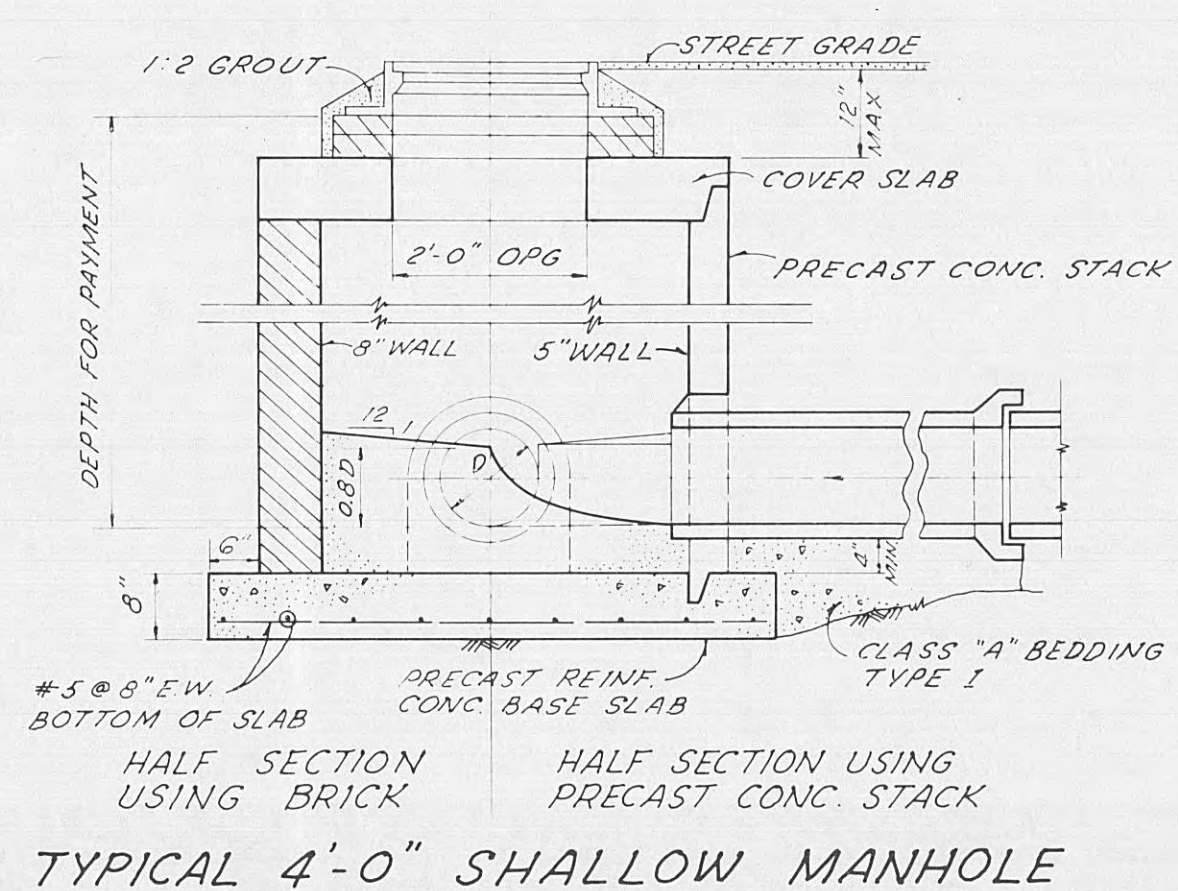
CONCRETE ENCASEMENT



TYPICAL INVERT PLAN (ALL SIZES) SCALE: 1/2" = 1'-0"

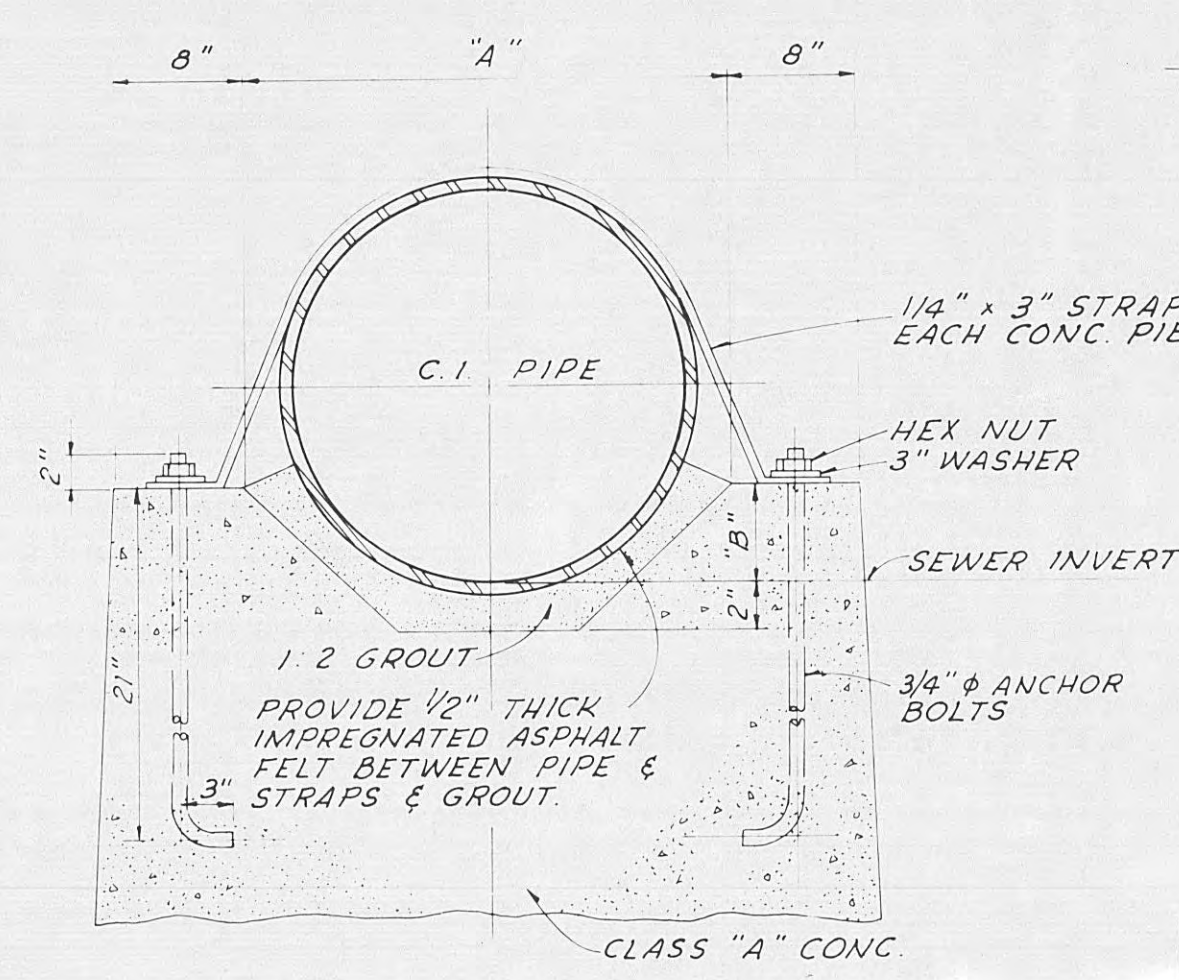
SECTION 4'-0" COVER SLAB SCALE: 1/2" = 1'-0"

SECTION 4', 5' OR 6' DIA. MANHOLE (ALTERNATE CONSTRUCTION) SCALE: 1/2" = 1'-0"

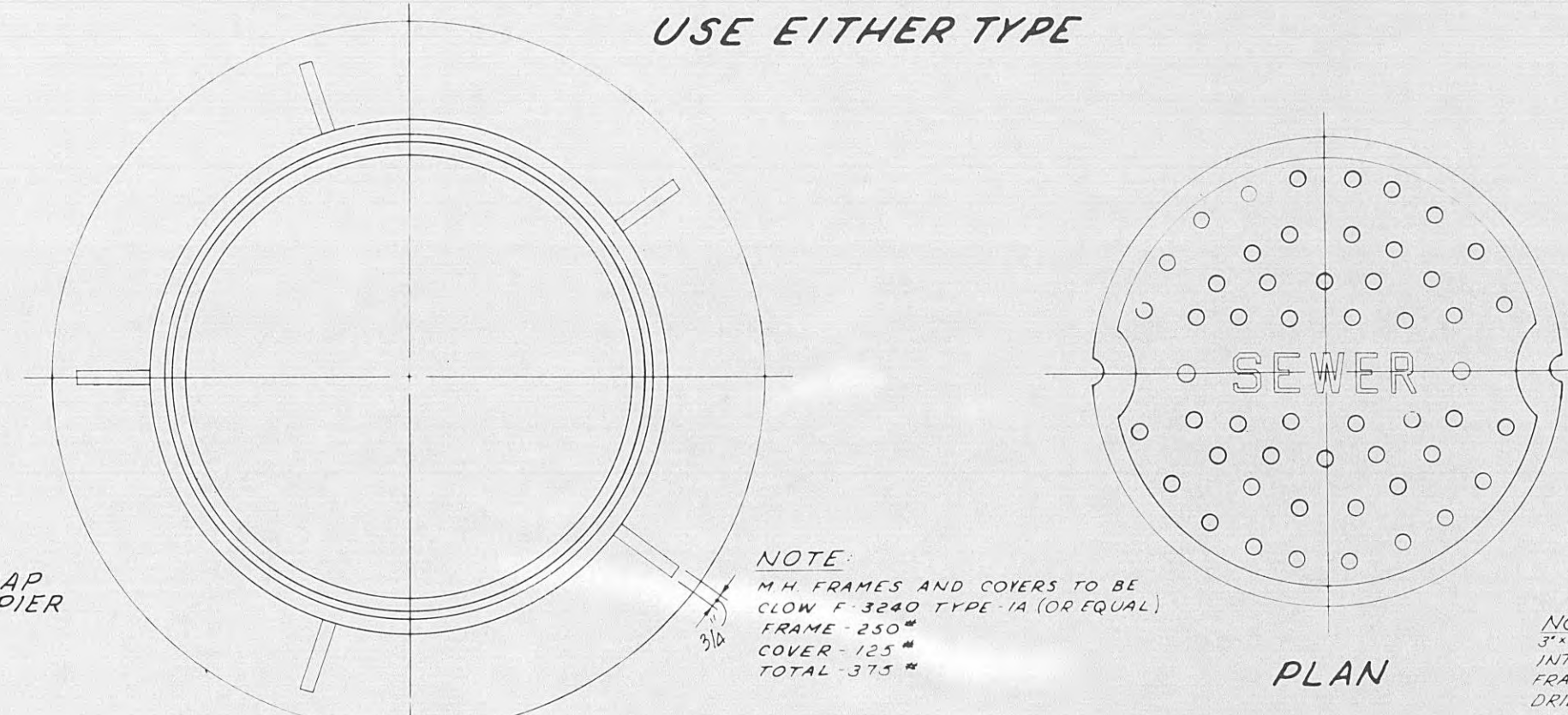


TYPICAL 4'-0" SHALLOW MANHOLE

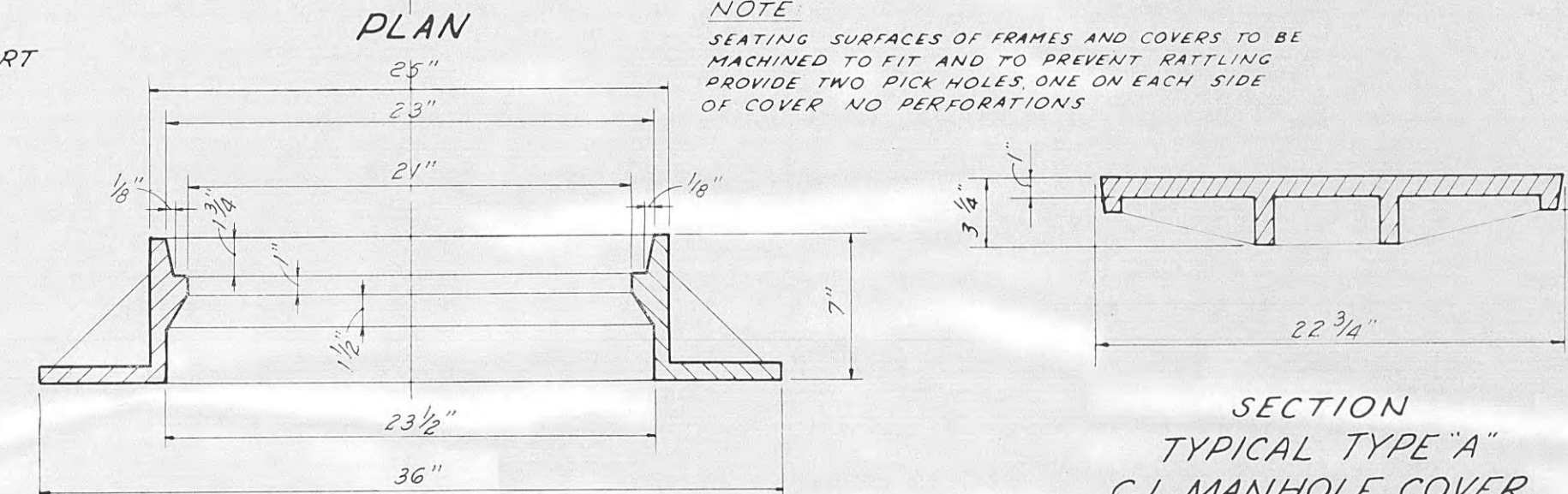
C.I. MANHOLE STEP DETAIL N.T.S.



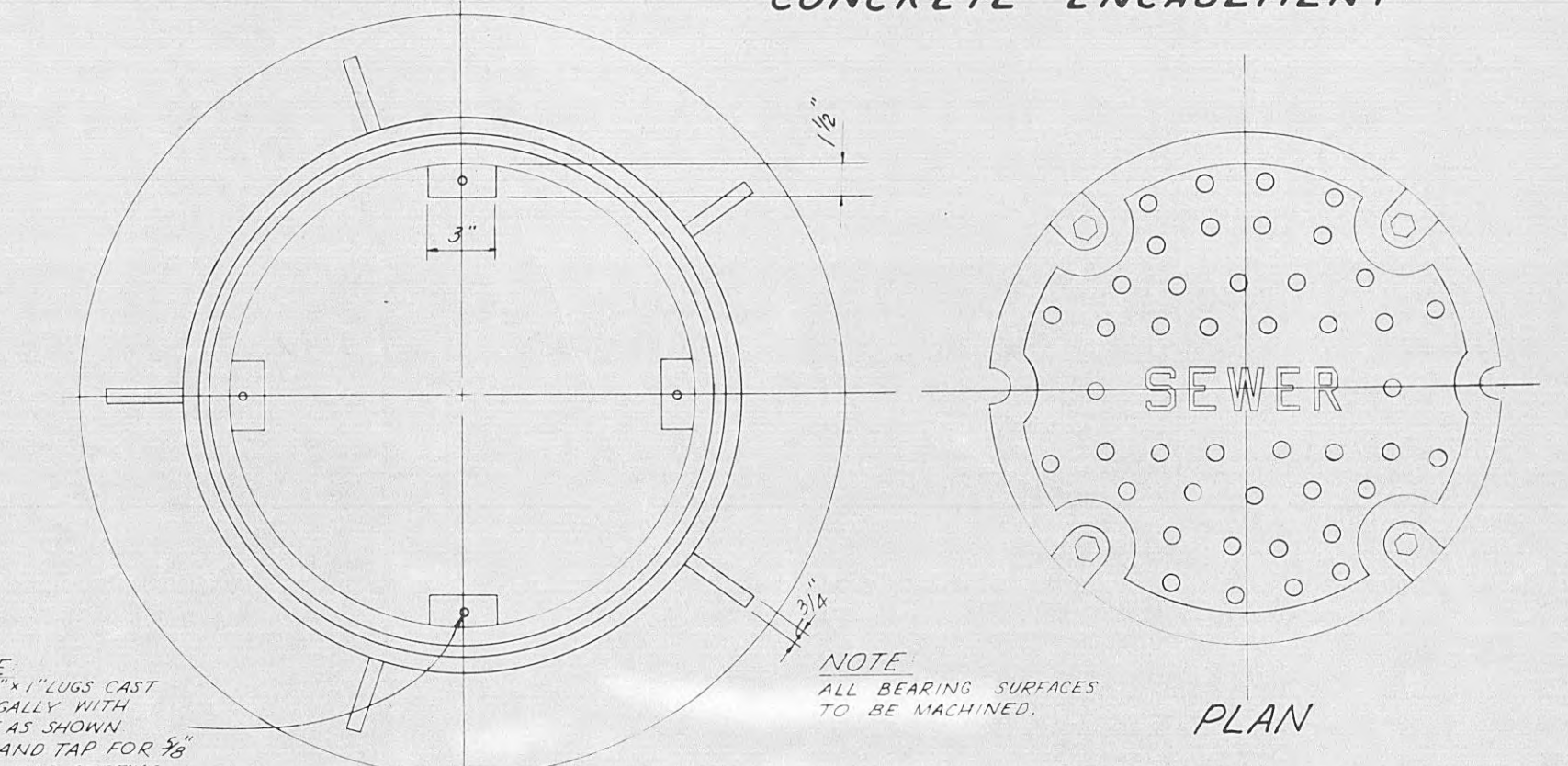
ENLARGED SECTION SCALE: 1" = 1'-0"



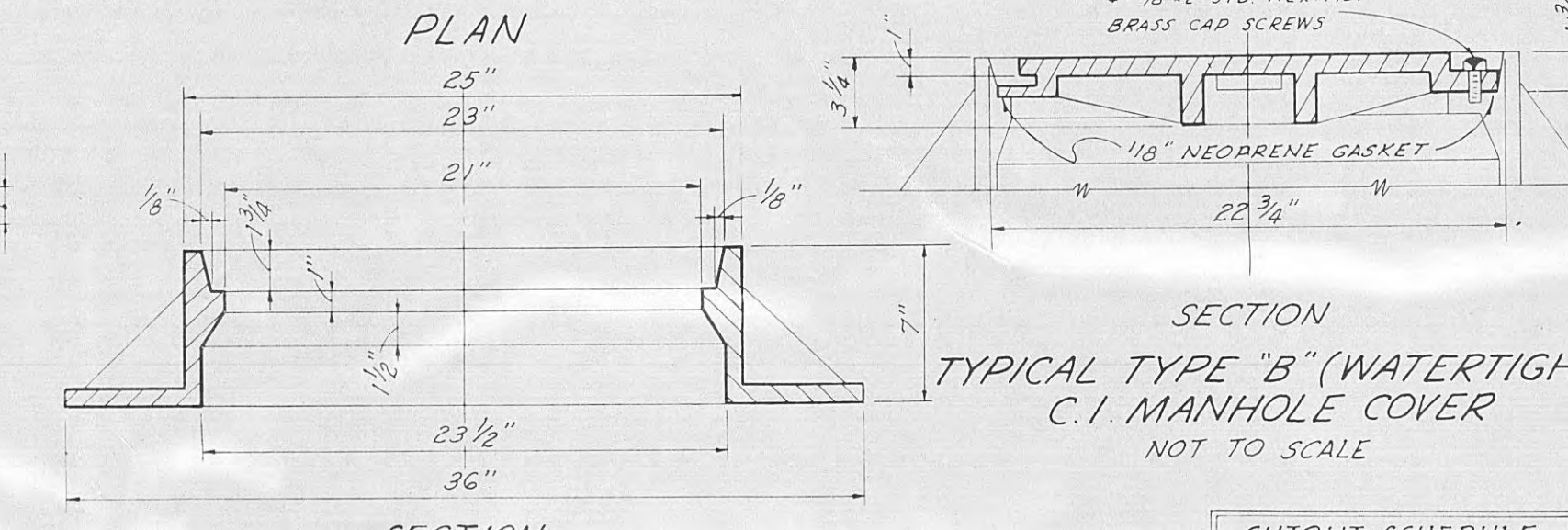
PLAN



SECTION TYPICAL TYPE "A" C.I. MANHOLE COVER NOT TO SCALE

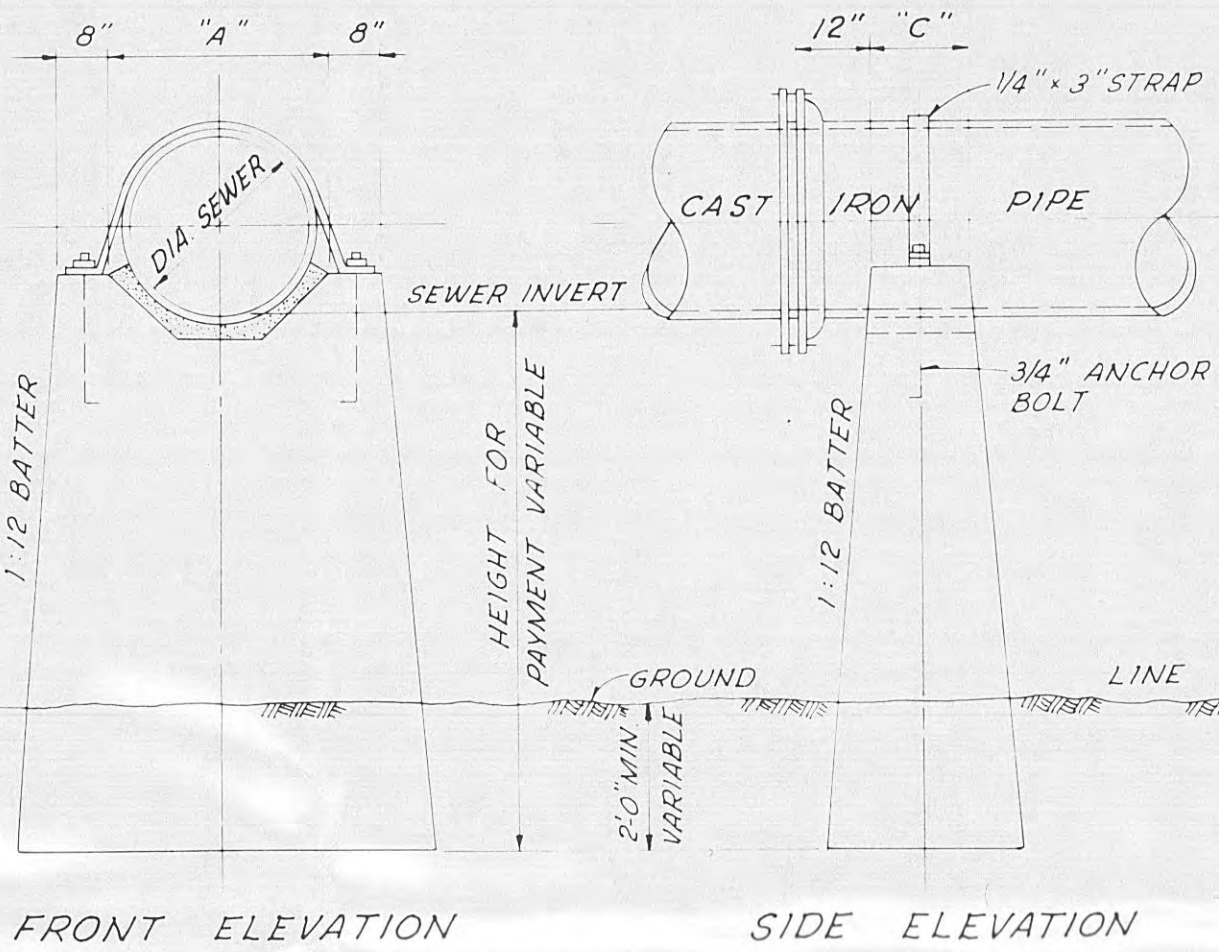


PLAN



SECTION TYPICAL TYPE "B" (WATERTIGHT) C.I. MANHOLE COVER NOT TO SCALE

CUTOUT SCHEDULE	PIPE SIZE	MIN. DIA.
8"	14"	
10"	16"	
12"	20"	
15"	24"	

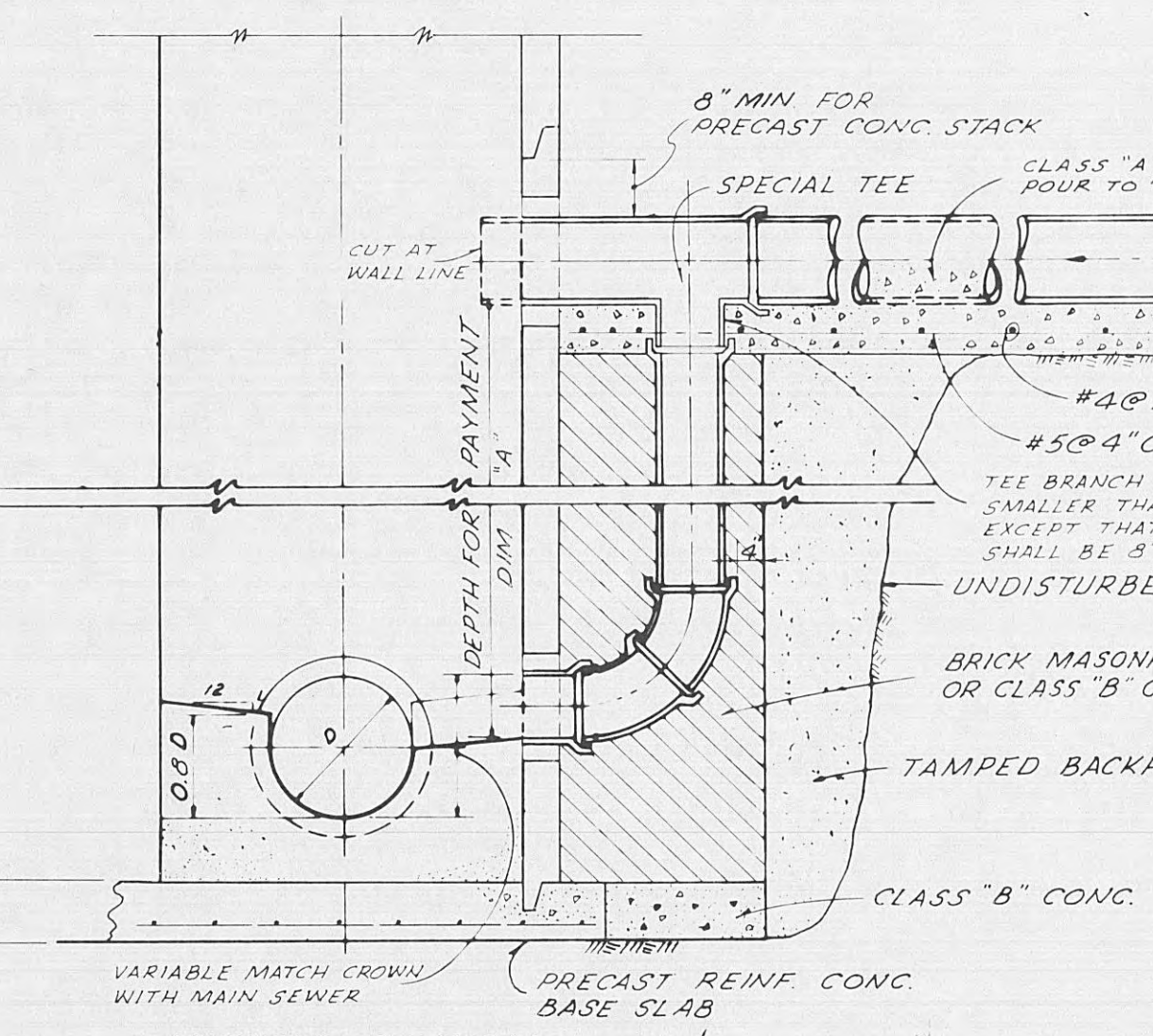


TYPICAL DETAIL OF C.I. PIPE ON PIERS N.T.S.

SCHEDULE FOR DROP CONNECTIONS DIM. A			
SEWER SIZE	DROP SIZE	MINIMUM INV. TO INV.	
8"	8"	24"	
10"	8"	24"	

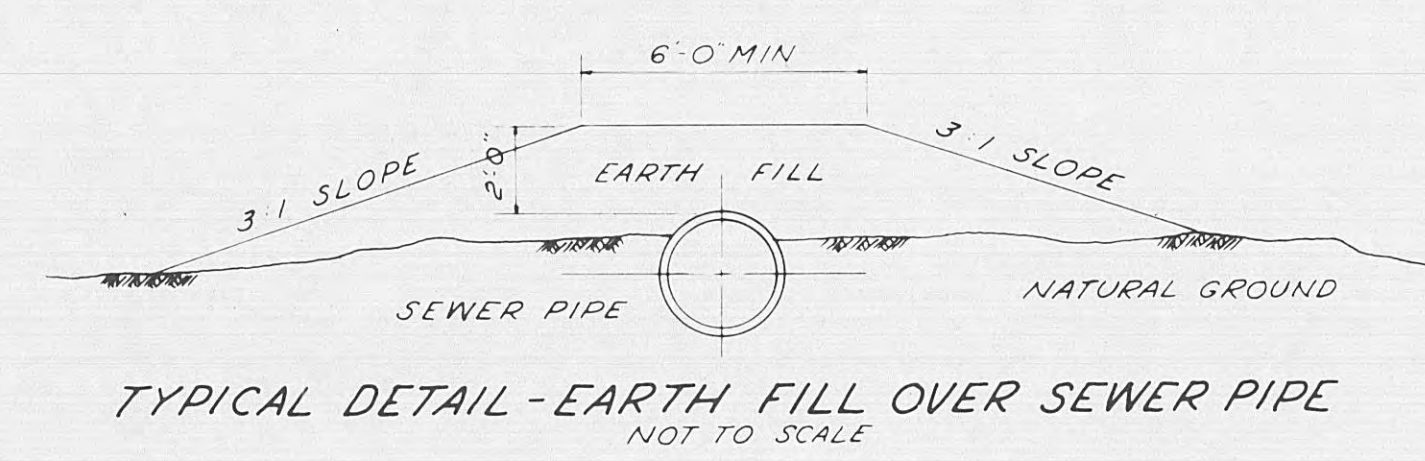
GOVERNING DIMENSIONS FOR CONCRETE PIERS			
I.D. PIPE	A	B	C
8"	11 1/2"	2"	8"
10"	13 1/2"	2 1/2"	10"
12"	15 1/2"	3"	10"
15"	19"	4"	11"

SECTION 4' DIA. MANHOLE PRECAST CONC. SCALE: 1/2" = 1'-0"

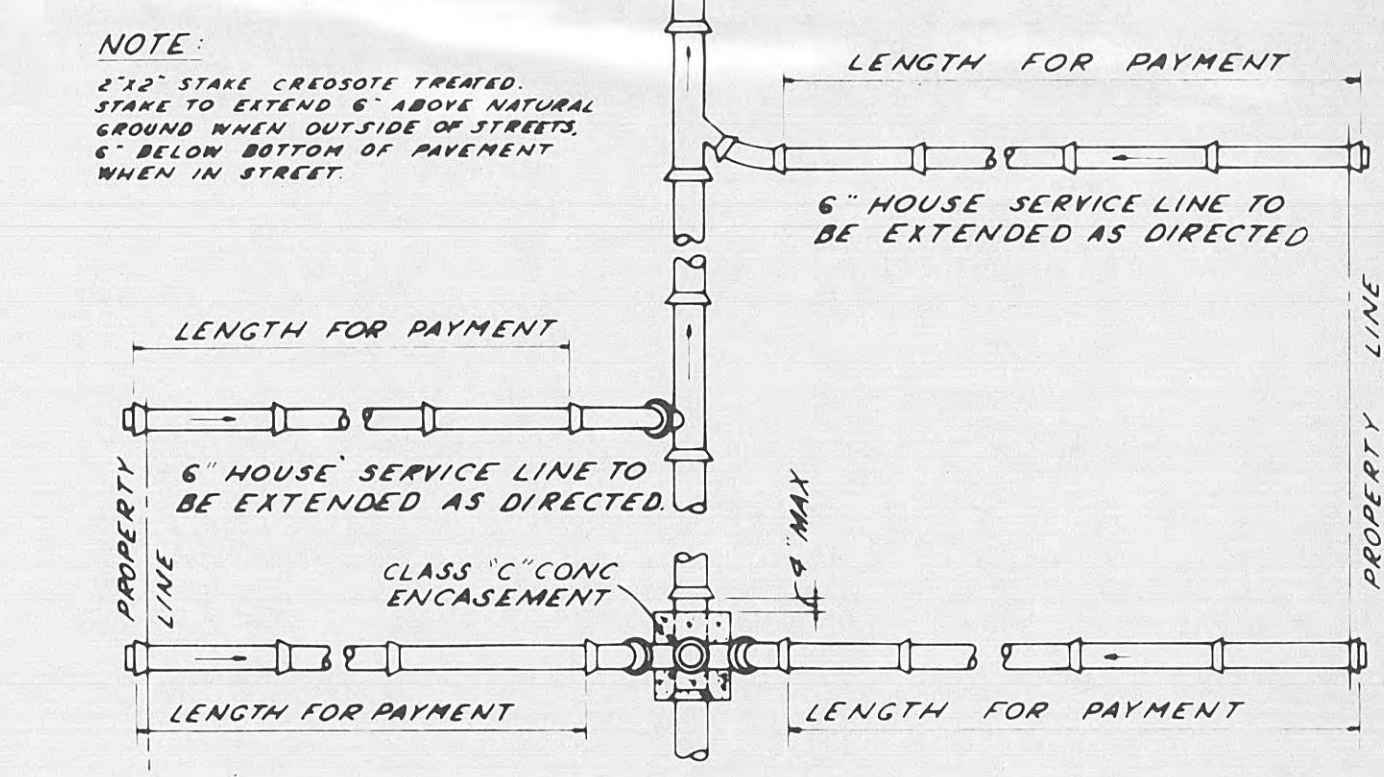


TYPICAL SECTION MANHOLE DROP CONNECTION SCALE: 1/2" = 1'-0"

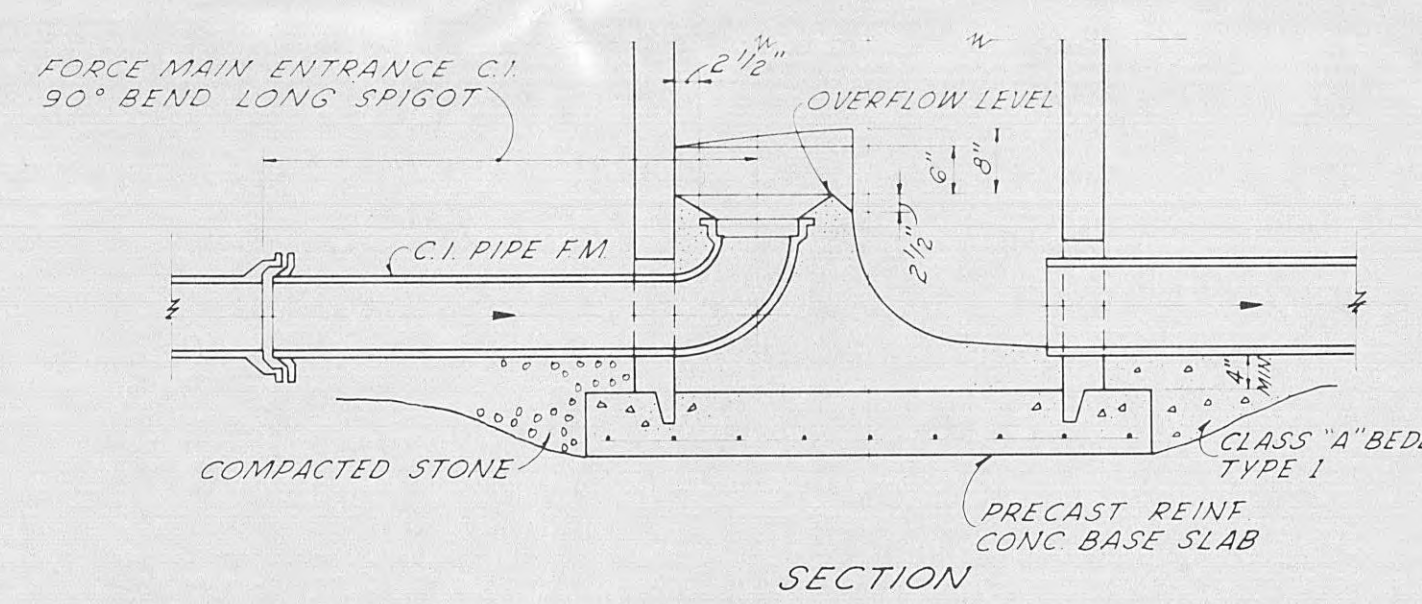
TYPICAL DETAILS SQ. CONC. COLLAR FOR JOINTING C.I. PIPE TO SEWER PIPE NOT TO SCALE



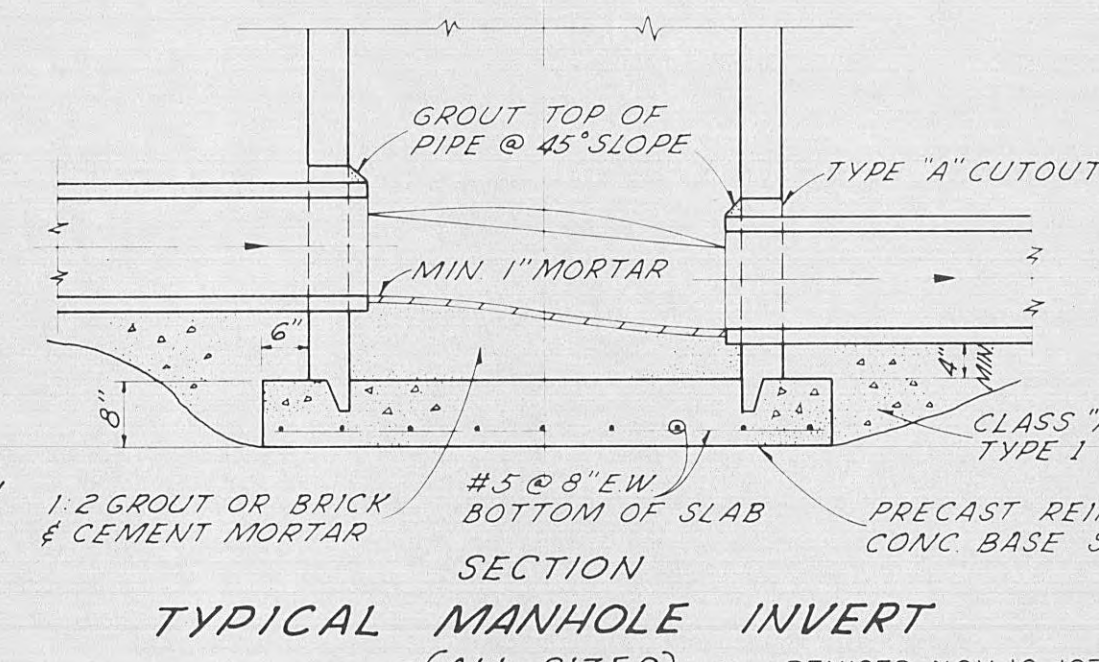
TYPICAL DETAIL - EARTH FILL OVER SEWER PIPE NOT TO SCALE



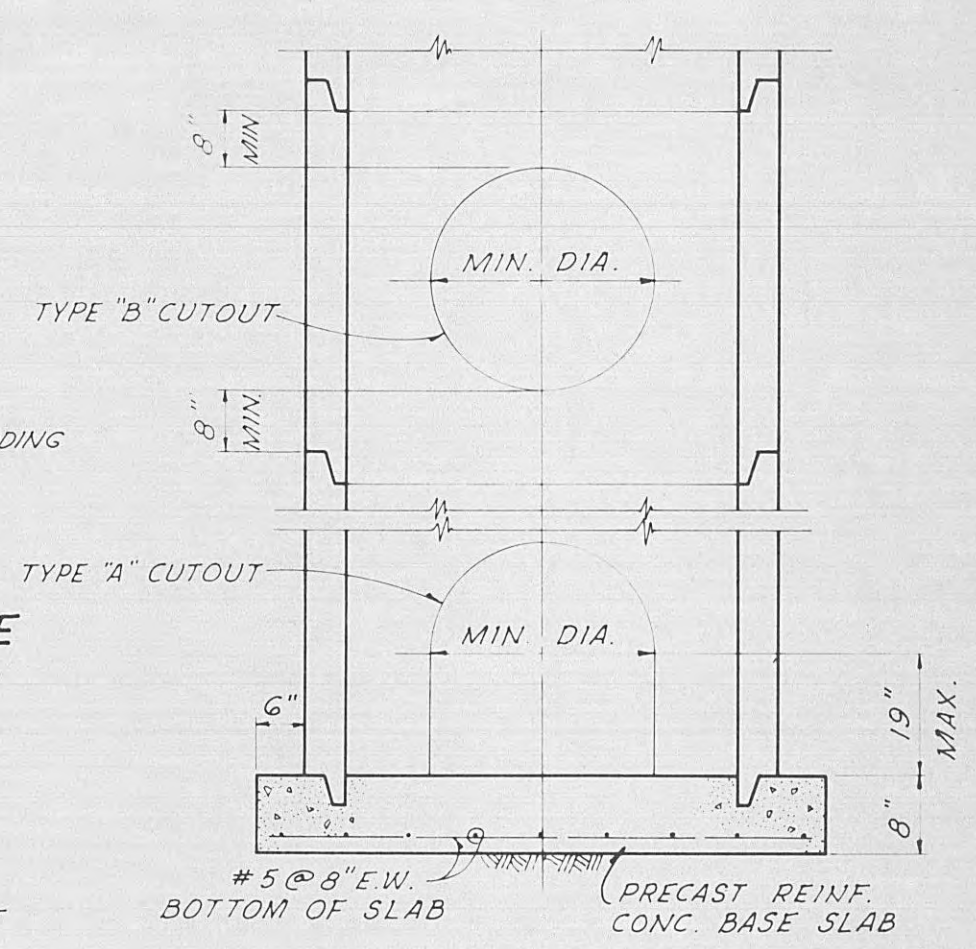
TYPICAL DETAILS OF SANITARY HOUSE SERVICE LINE NOT TO SCALE



TYPICAL FORCE MAIN CONN. TO MANHOLE SCALE: 1/2" = 1'-0"



TYPICAL MANHOLE INVERT (ALL SIZES) SCALE: 1/2" = 1'-0"



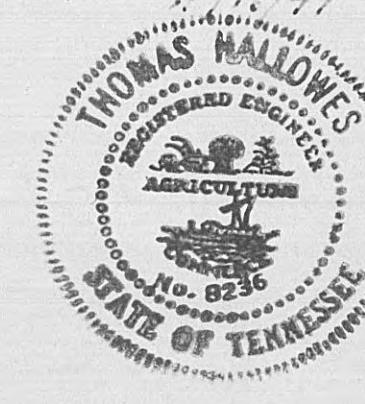
SECTION CUTOUT DETAIL SCALE: 1/2" = 1'-0"

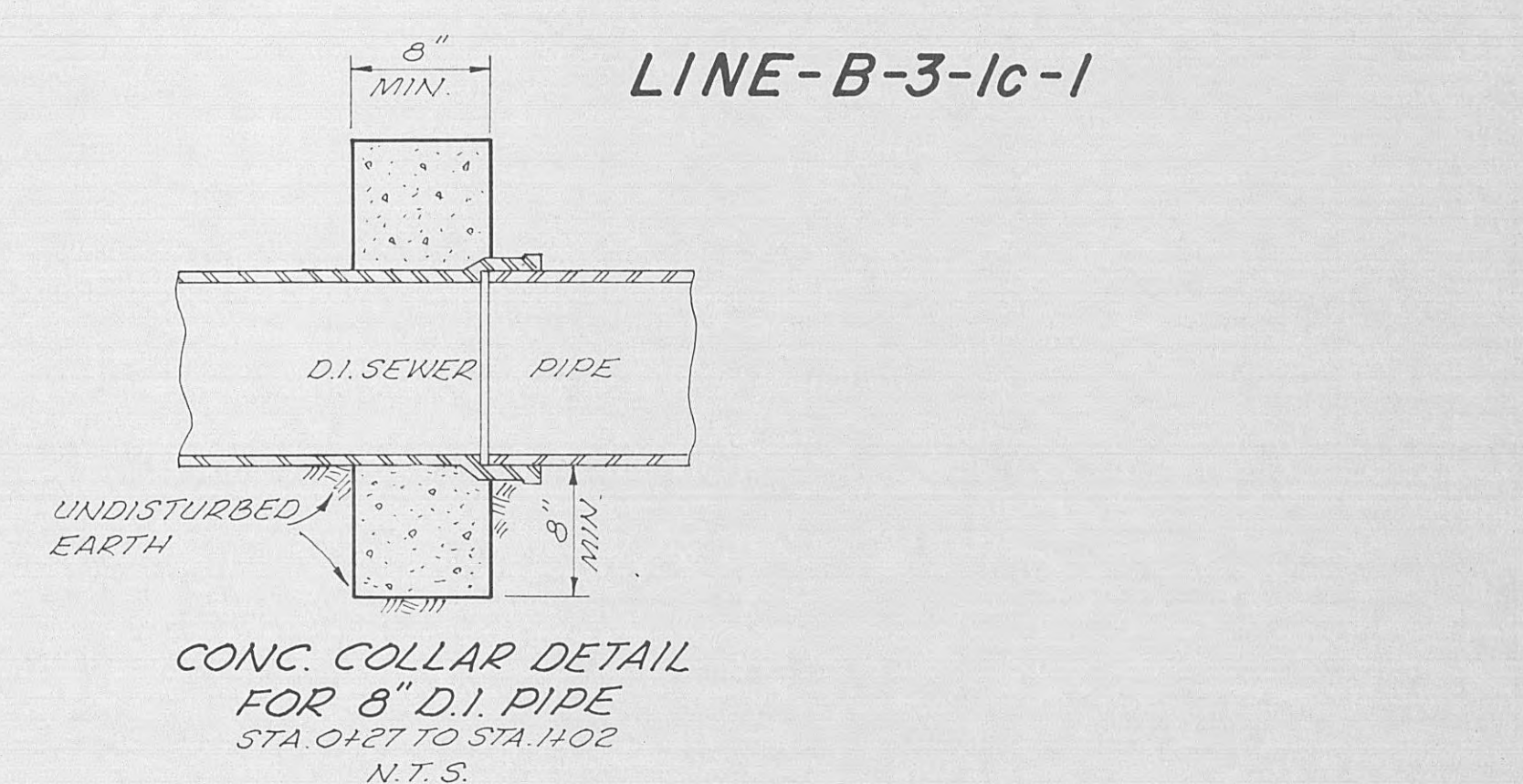
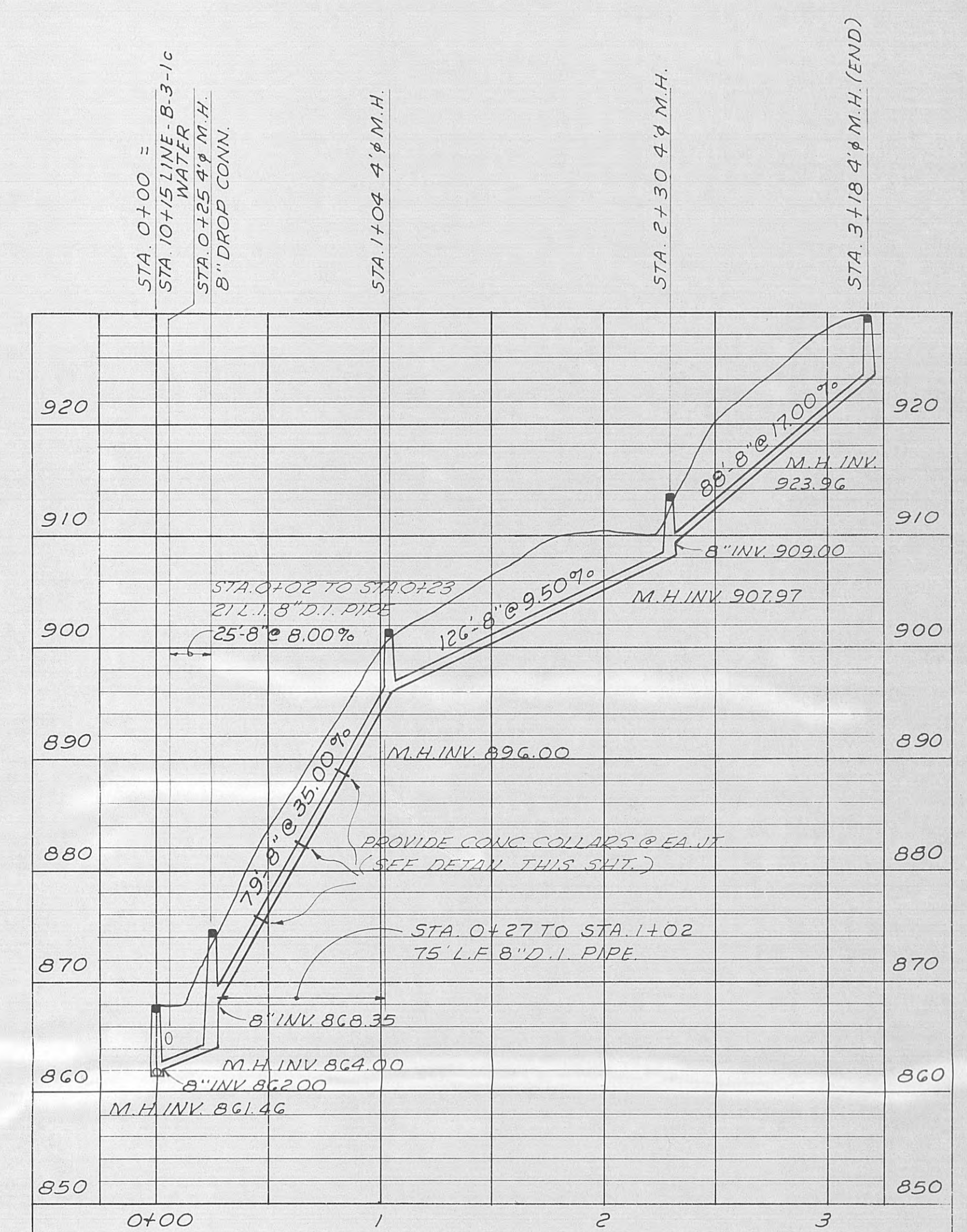
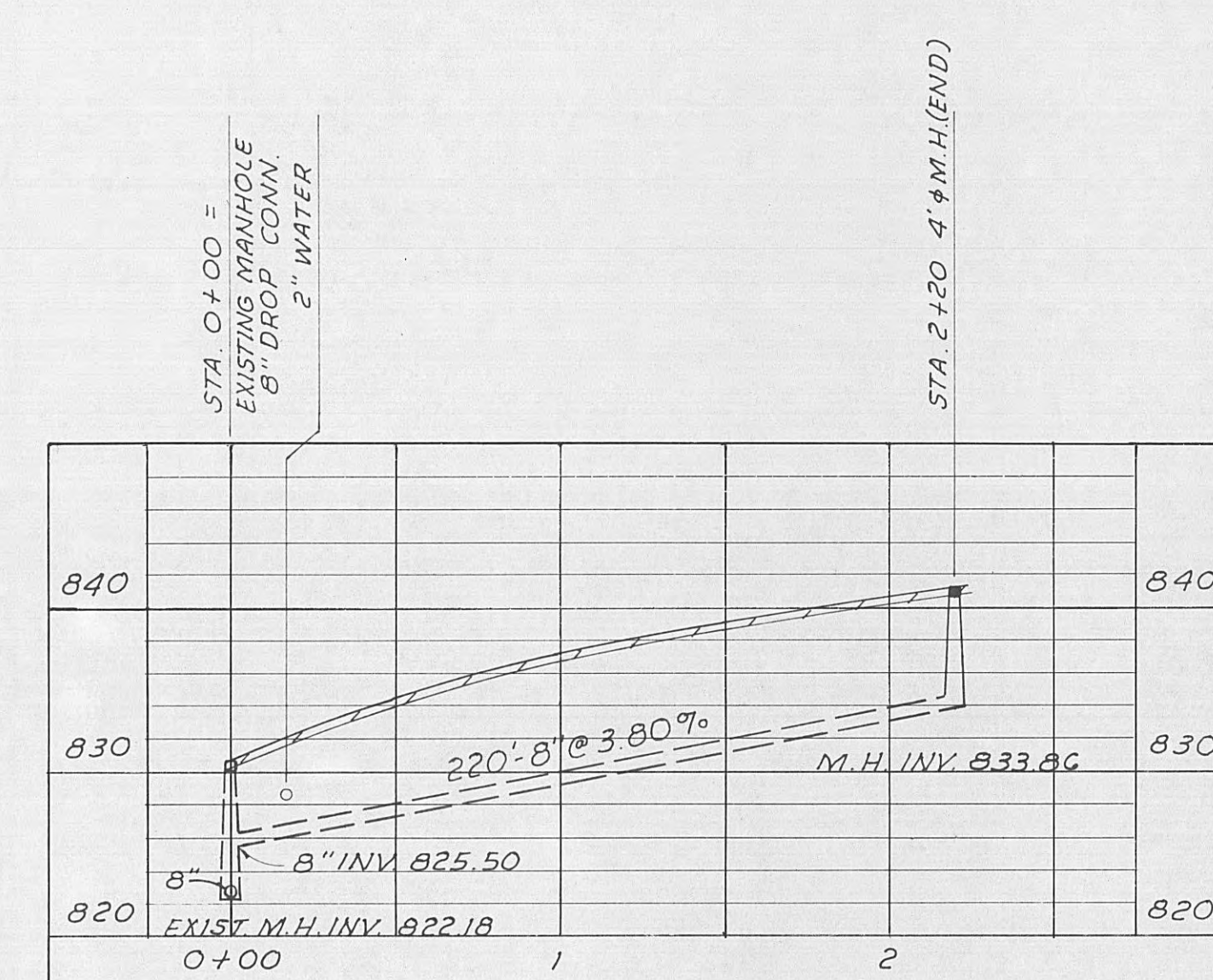
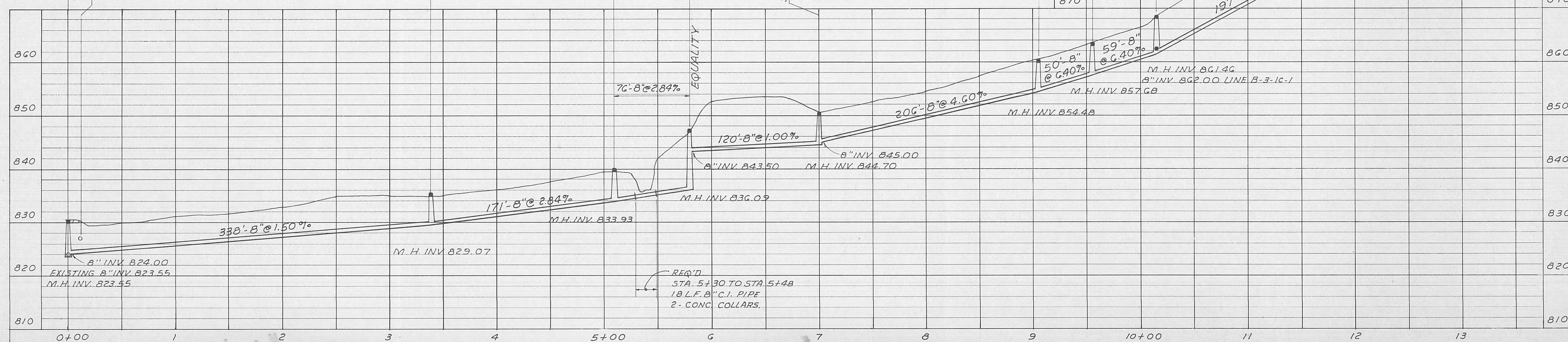
EDA PROJECT NO. TN-0200-0

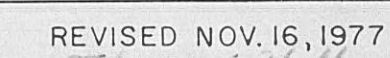
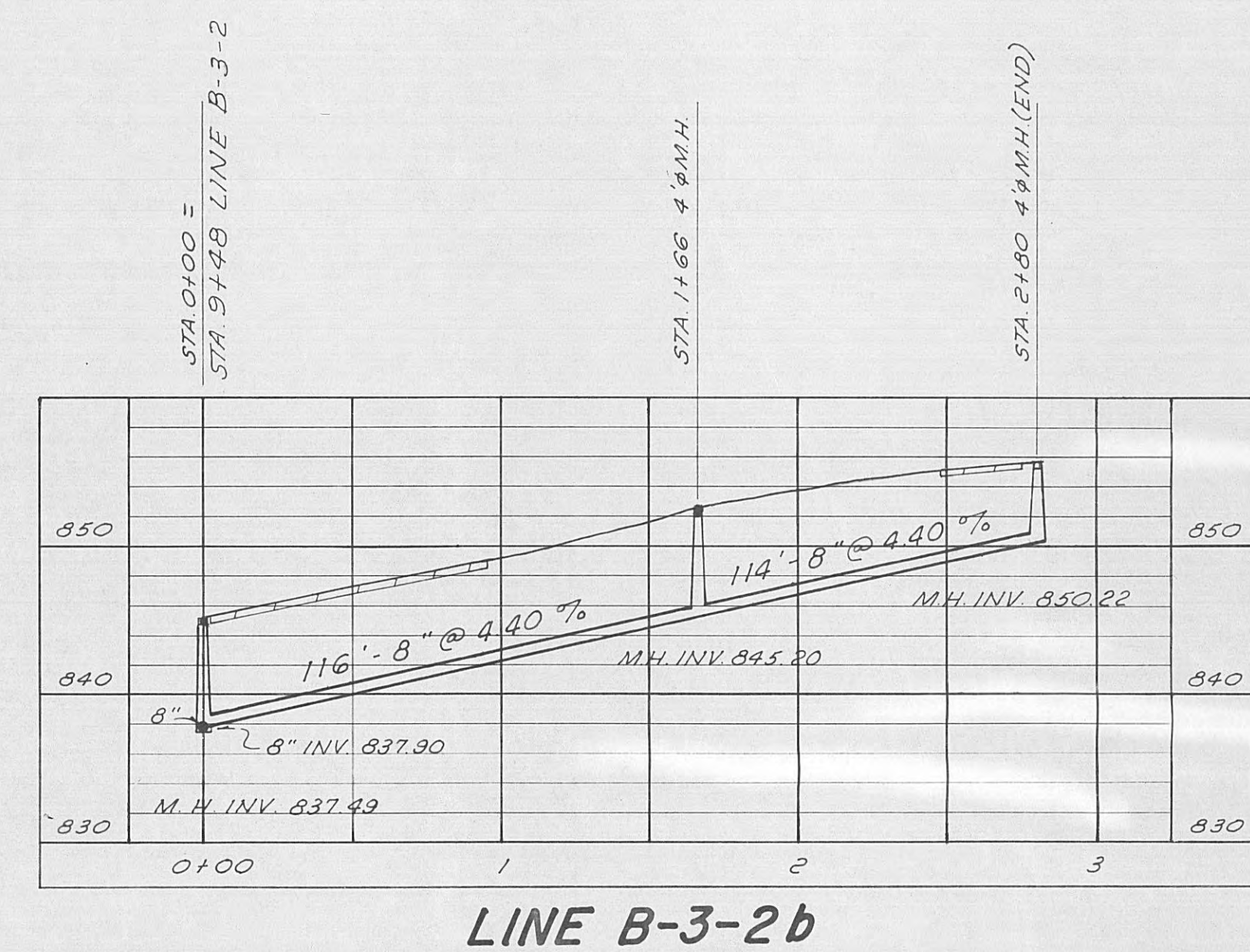
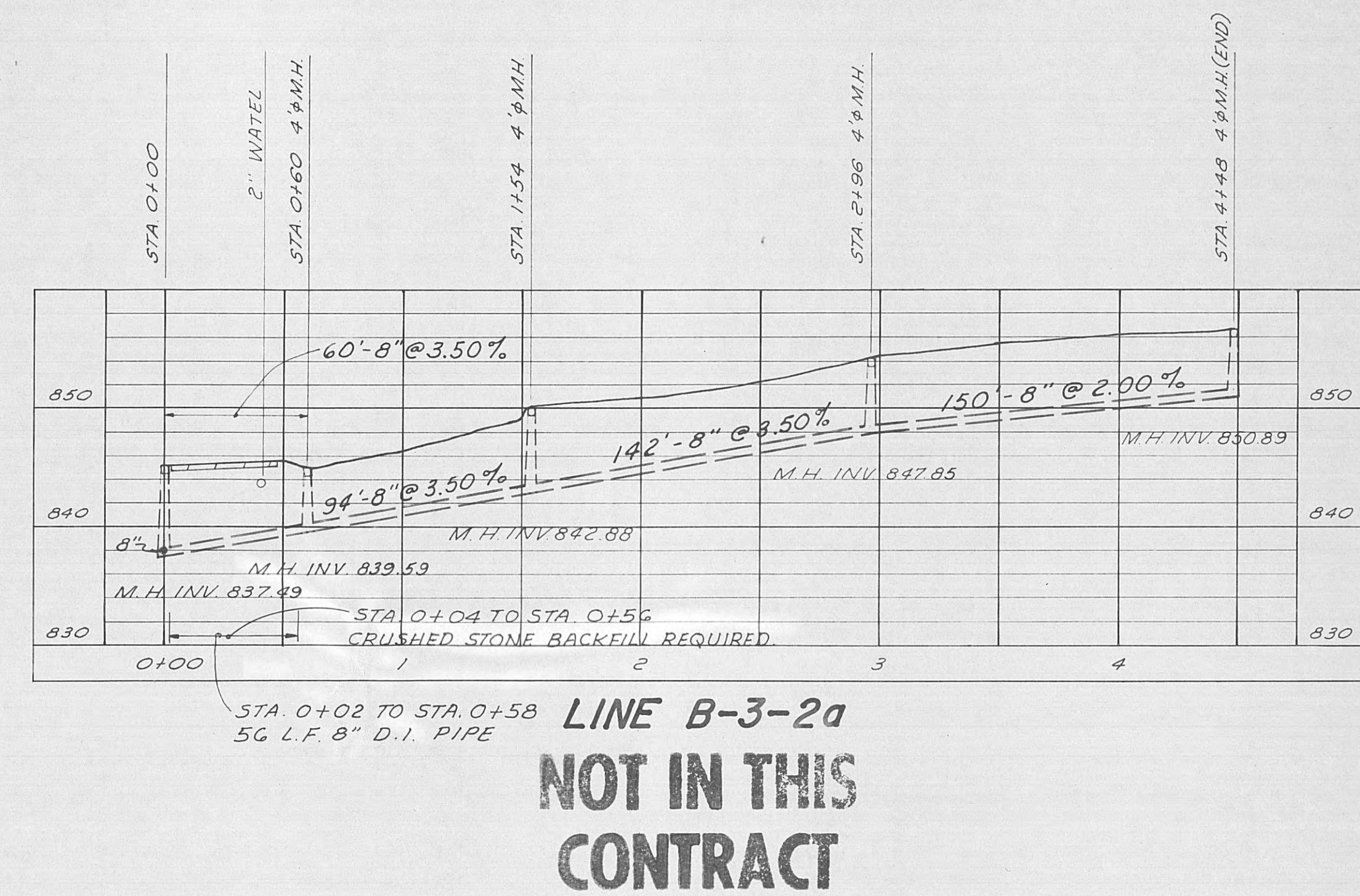
CITY OF HARRISMAN, TENNESSEE
SANITARY SEWERAGE SYSTEM IMPROVEMENTS

MISCELLANEOUS DETAILS

SCALE AS SHOWN	WIEDEMAN AND SINGLETON ENGINEERS	SHEET 6
DATE SEPT. 1977	ATLANTA GEORGIA	OF 6







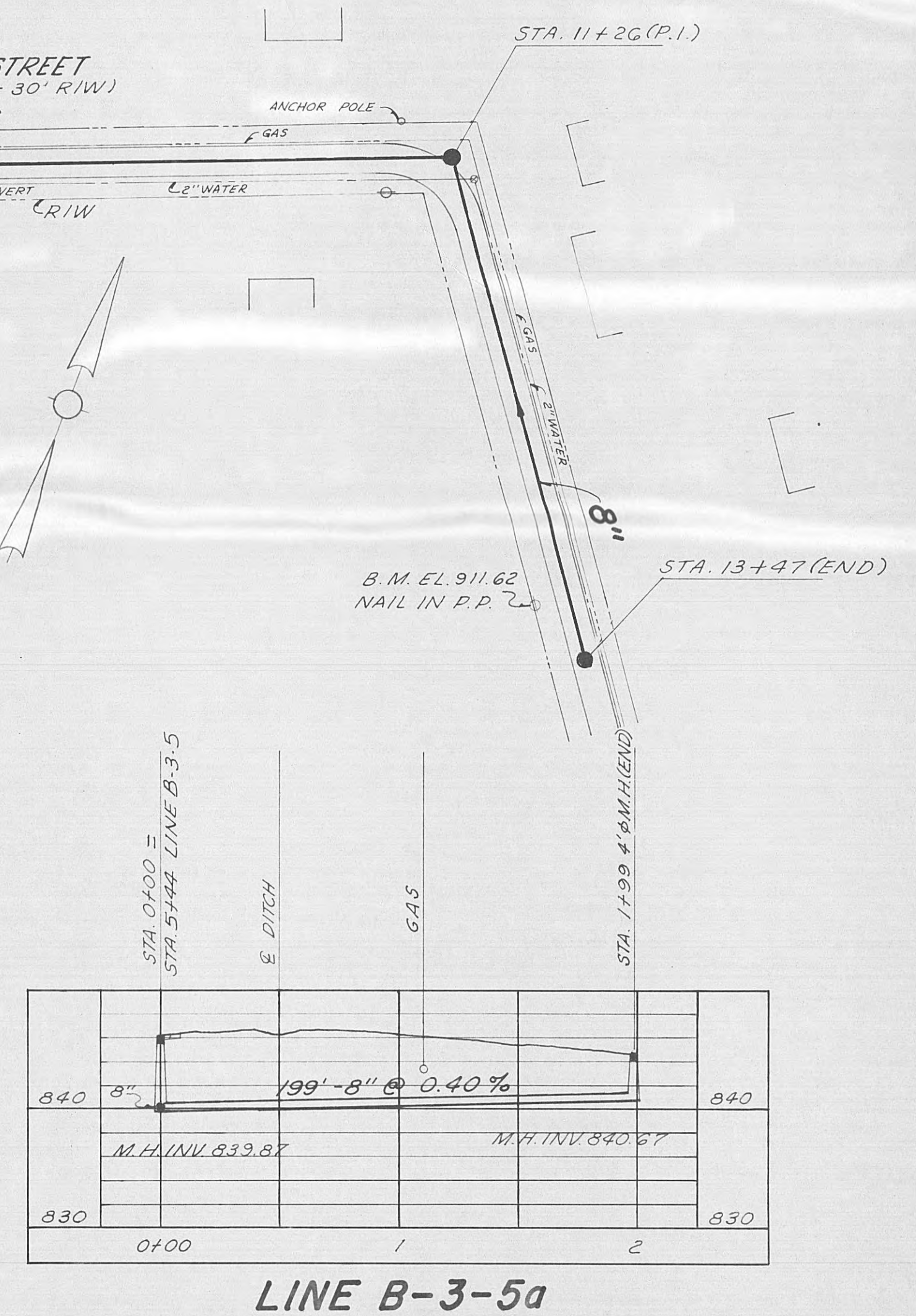
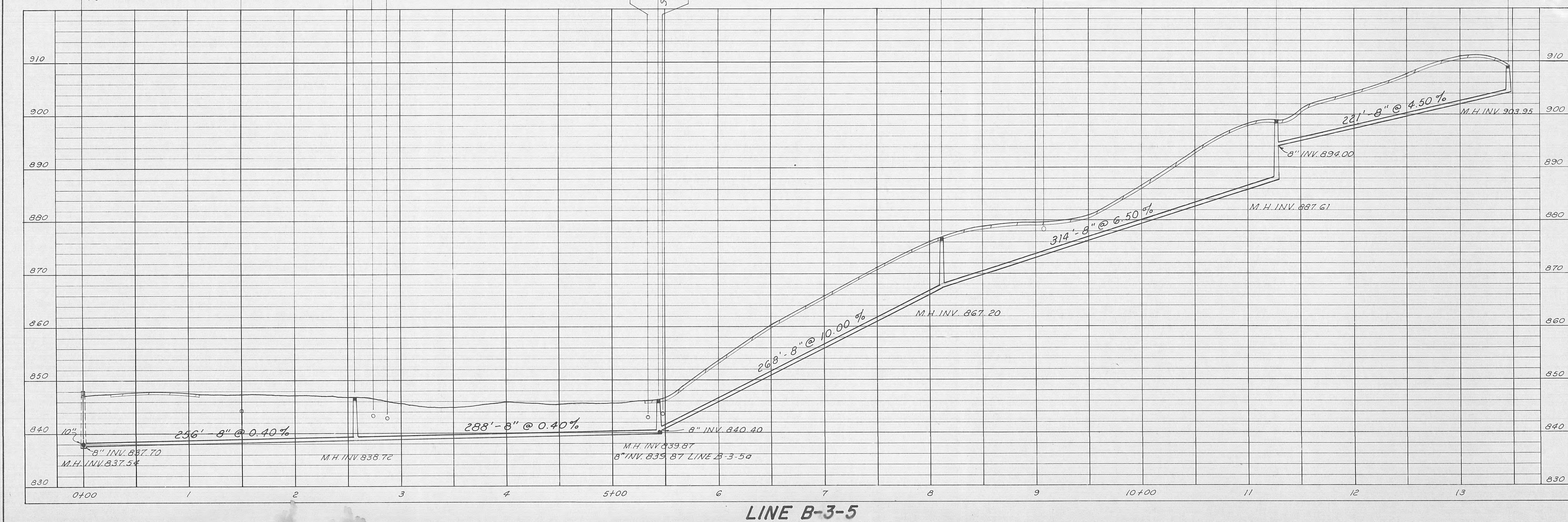
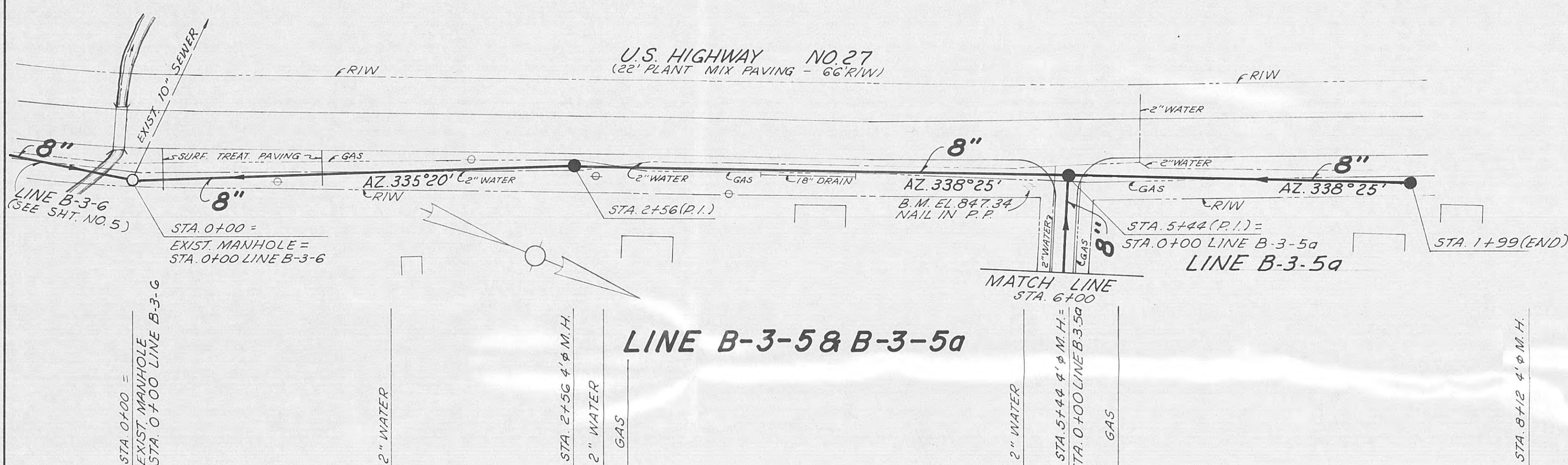
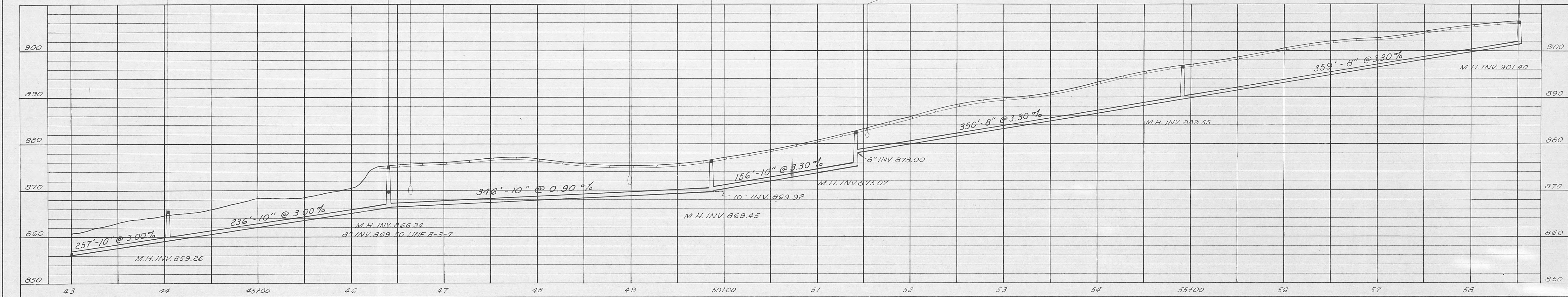
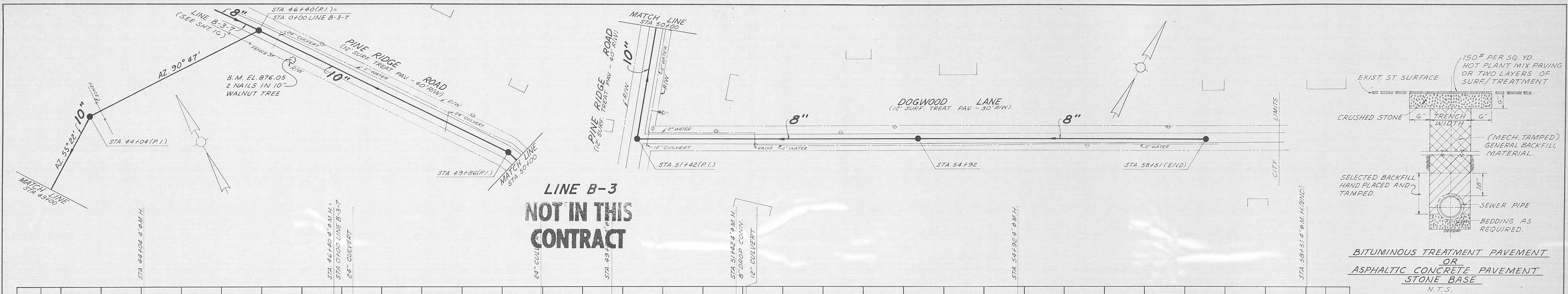
EDA PROJECT NO. TN-0200-0

CITY OF HARRIMAN, TENNESSEE
SANITARY SEWERAGE SYSTEM IMPROVEMENTS

LINE B-3-2 STA. 0+00 TO STA. 28+02(EN

LINE B-3-2b STA. 0+00 TO STA. 2+80 (END)

SCALE 1"=50' HORZ. 1"=10' VERT. DATE SEPT. 1977	WIEDEMAN AND SINGLETON ENGINEERS ATLANTA GEORGIA	SHEET 3 OF 6
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EDA PROJECT NO. TN-0200-0

CITY OF HARRIMAN, TENNESSEE
SANITARY SEWERAGE SYSTEM IMPROVEMENTS

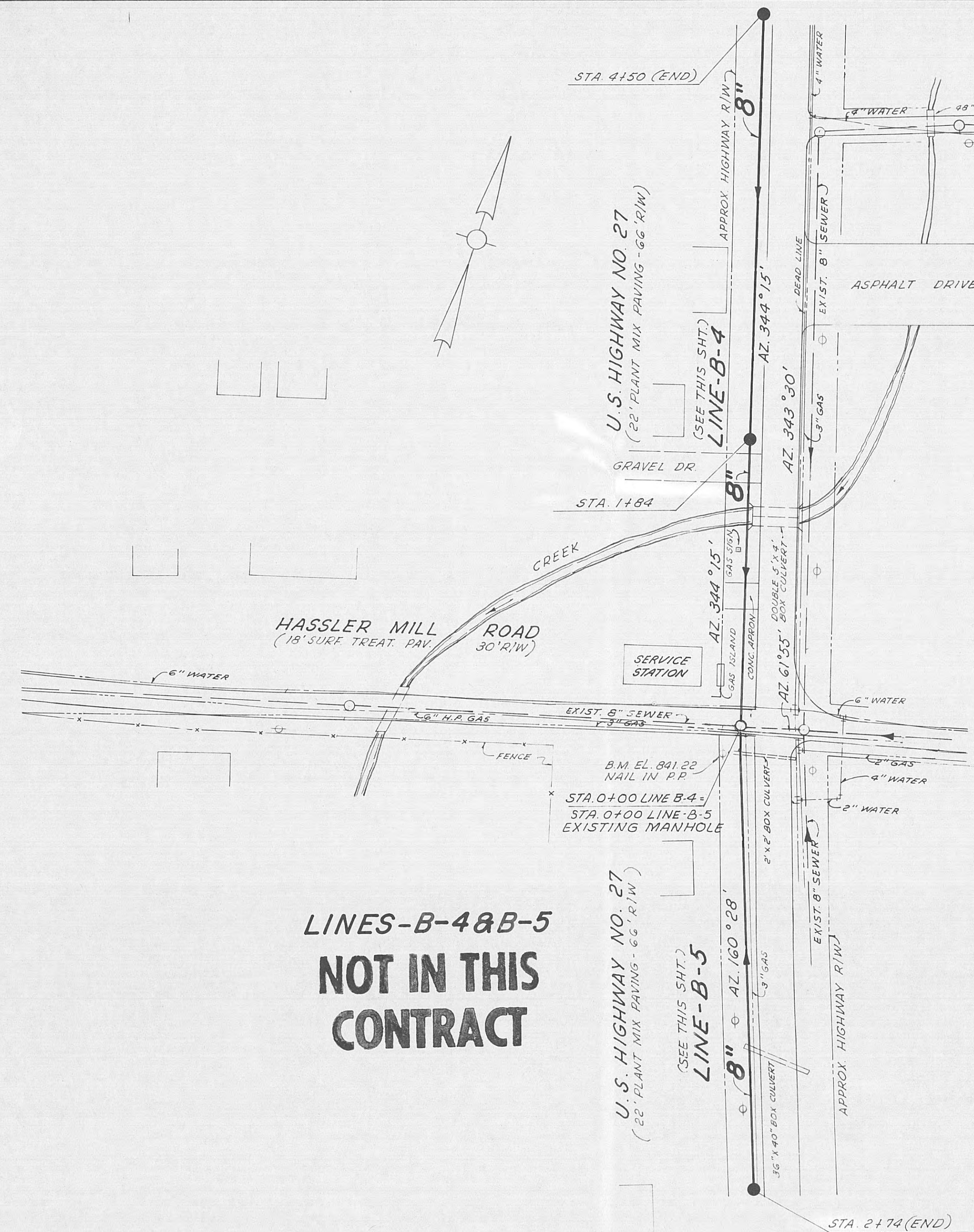
LINE B-3 NOT IN THIS CONTRACT
LINE B-3-5 STA. 0+00 TO STA. 13+47 (END)
LINE B-3-5a STA. 0+00 TO STA. 1+99 (END)

SCALE
1"=50' HORZ.
1"=10' VERT.
DATE
SEPT. 1977

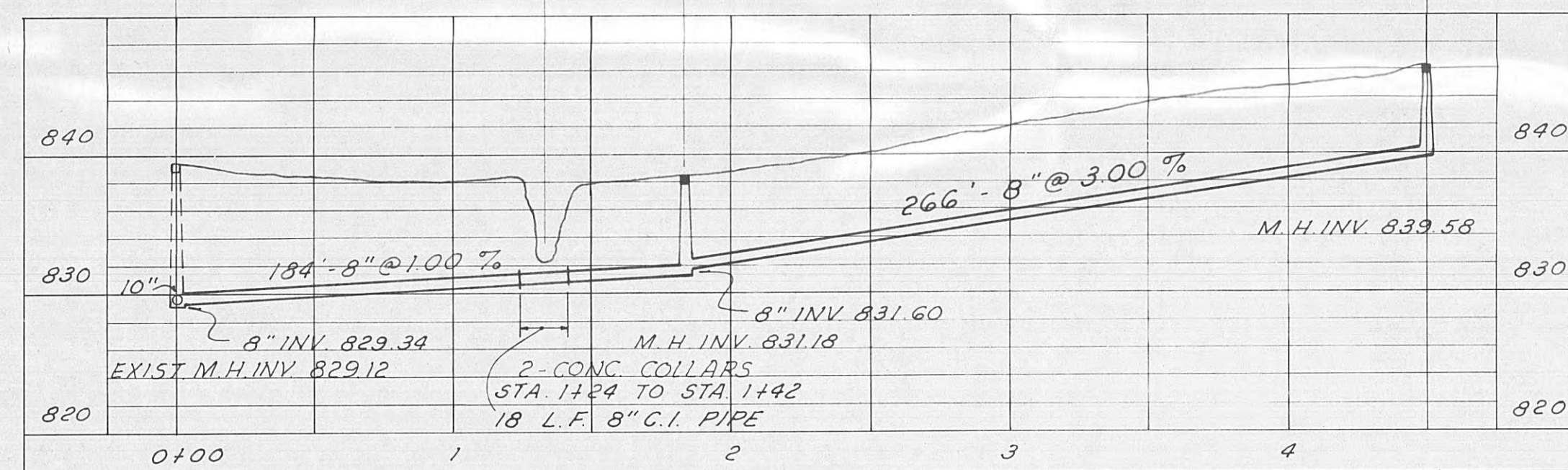
WIEDEMAN AND SINGLETON
ENGINEERS
ATLANTA GEORGIA

SHEET
4
OF 6

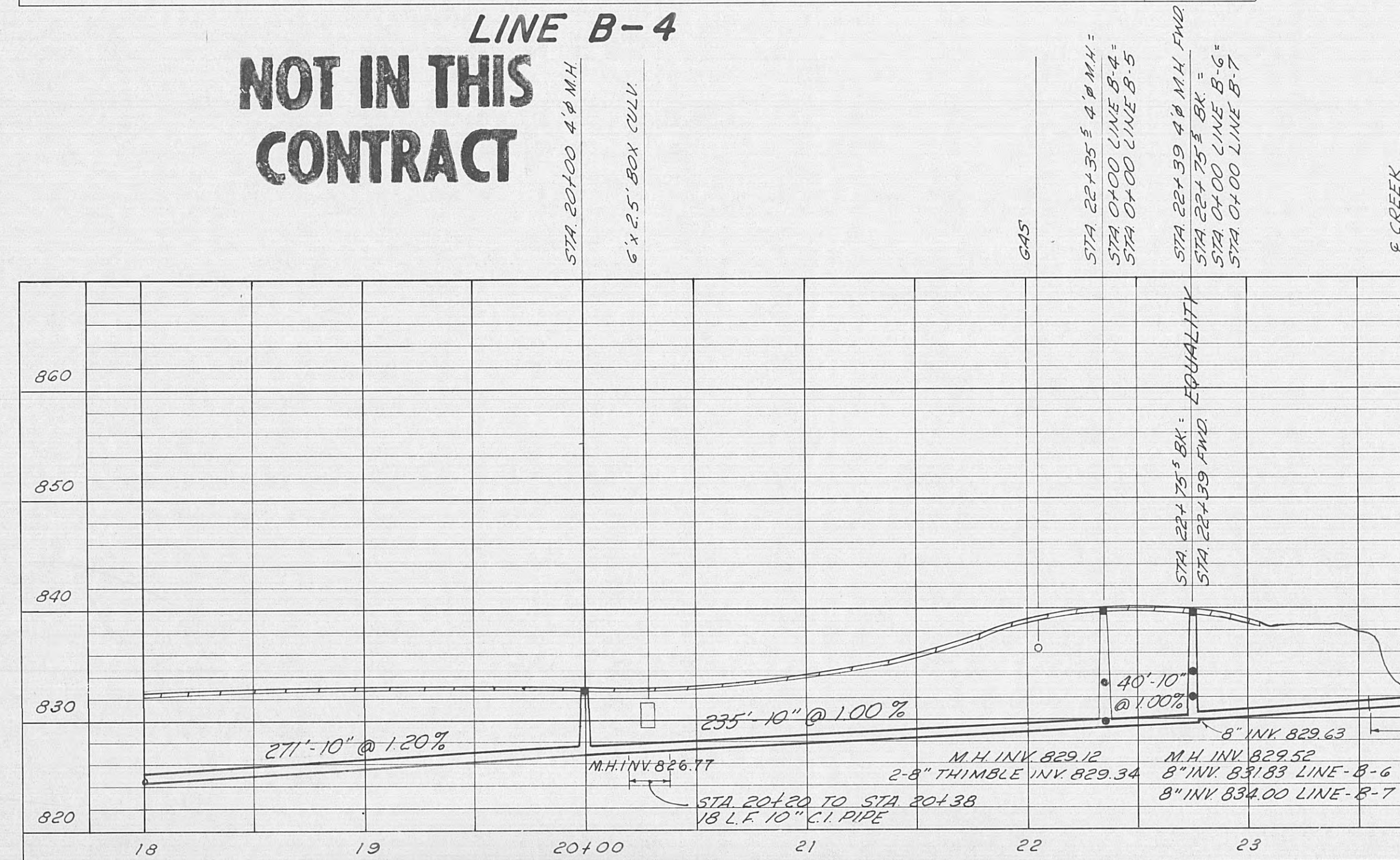




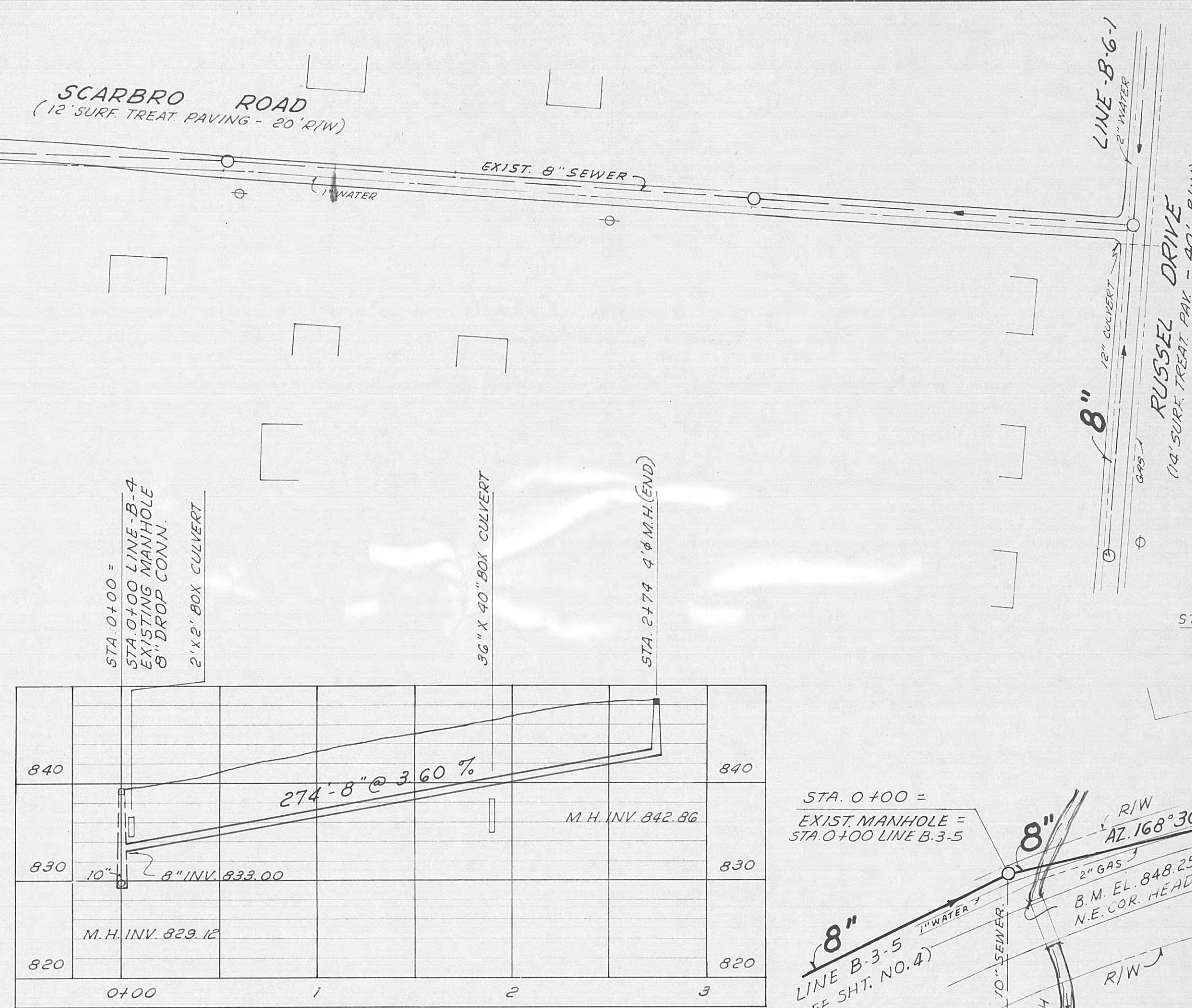
**LINES-B-4&B-5
NOT IN THIS
CONTRACT**



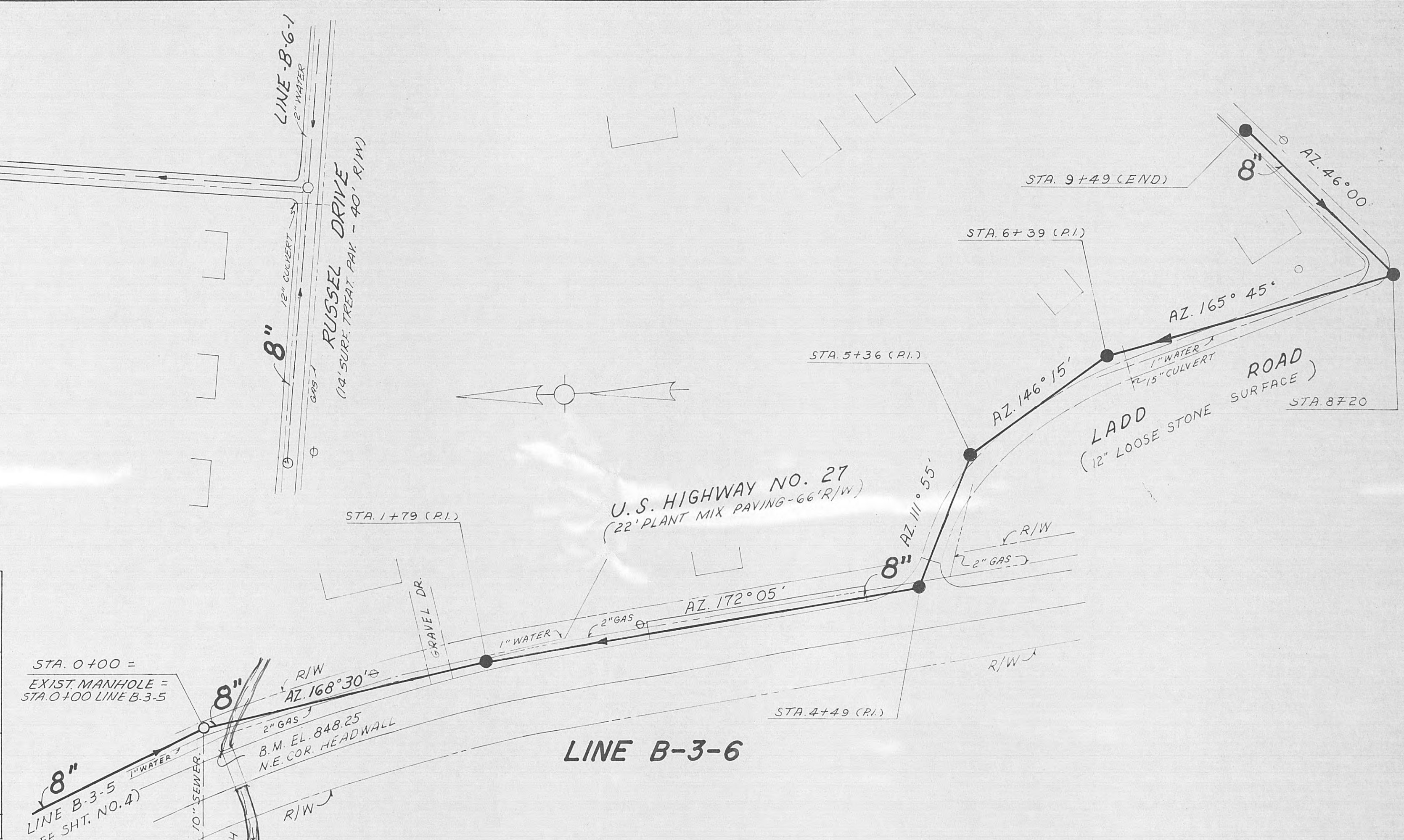
**LINE B-4
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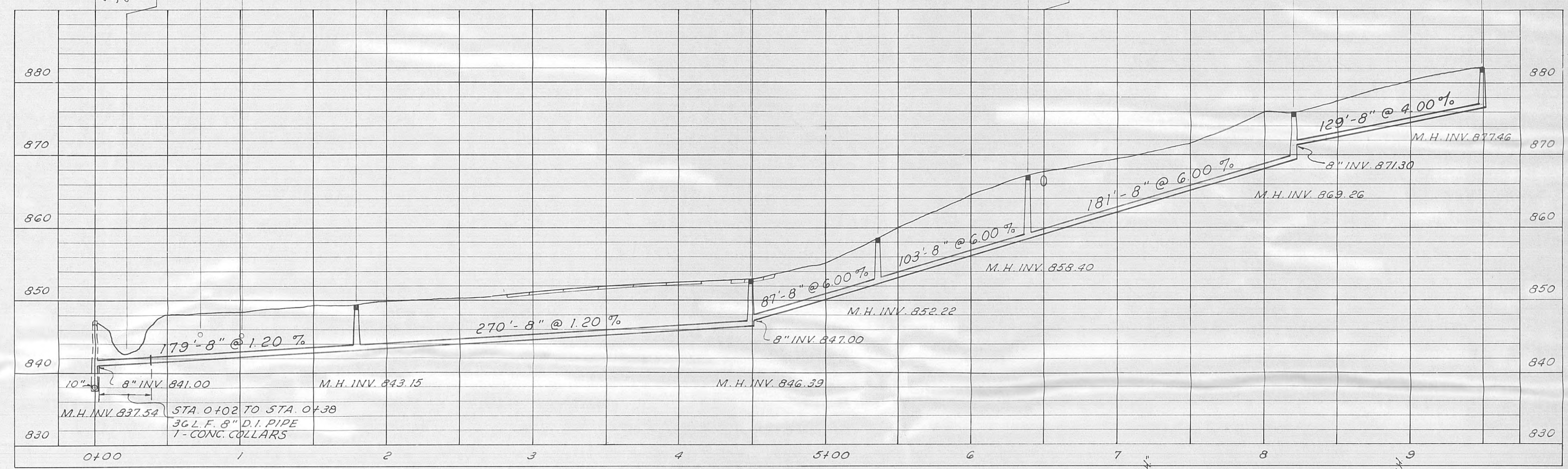
**LINE-B-5
NOT IN THIS
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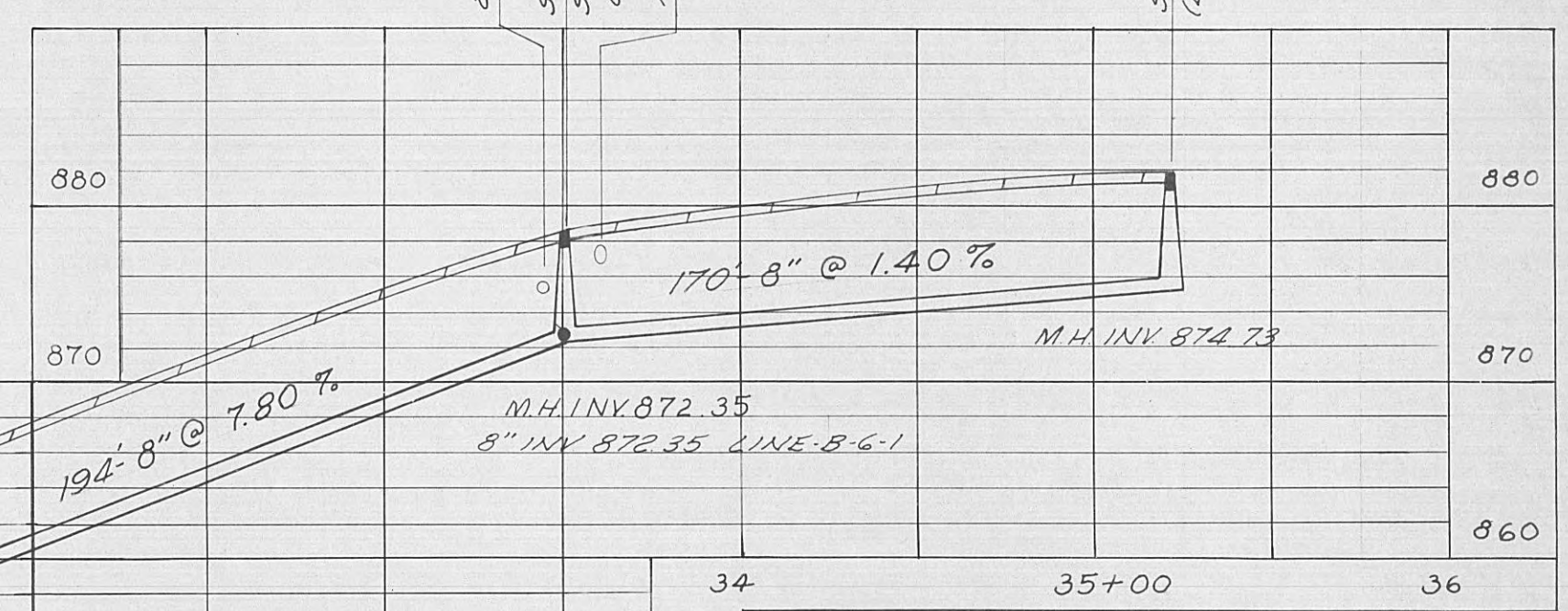
**LINE B-5
NOT IN THIS
CONTRACT**



LINE B-3-6



LINE B-3-6



EDA PROJECT NO. TN-0200-0

CITY OF HARRIMAN, TENNESSEE
SANITARY SEWERAGE SYSTEM IMPROVEMENTS

LINE-B EXISTING
LINE B-4 NOT IN THIS CONTRACT.
LINE B-5 NOT IN THIS CONTRACT.
LINE B-3-6 STA. 0+00 TO STA. 9+49 (END)

SCALE: 1"=50' HORIZ.
1"=10' VERT.
DATE: SEPT. 1977
WIEDEMAN AND SINGLETON
ENGINEERS
ATLANTA GEORGIA
SHEET
5
OF 6



LINE-B EXISTING