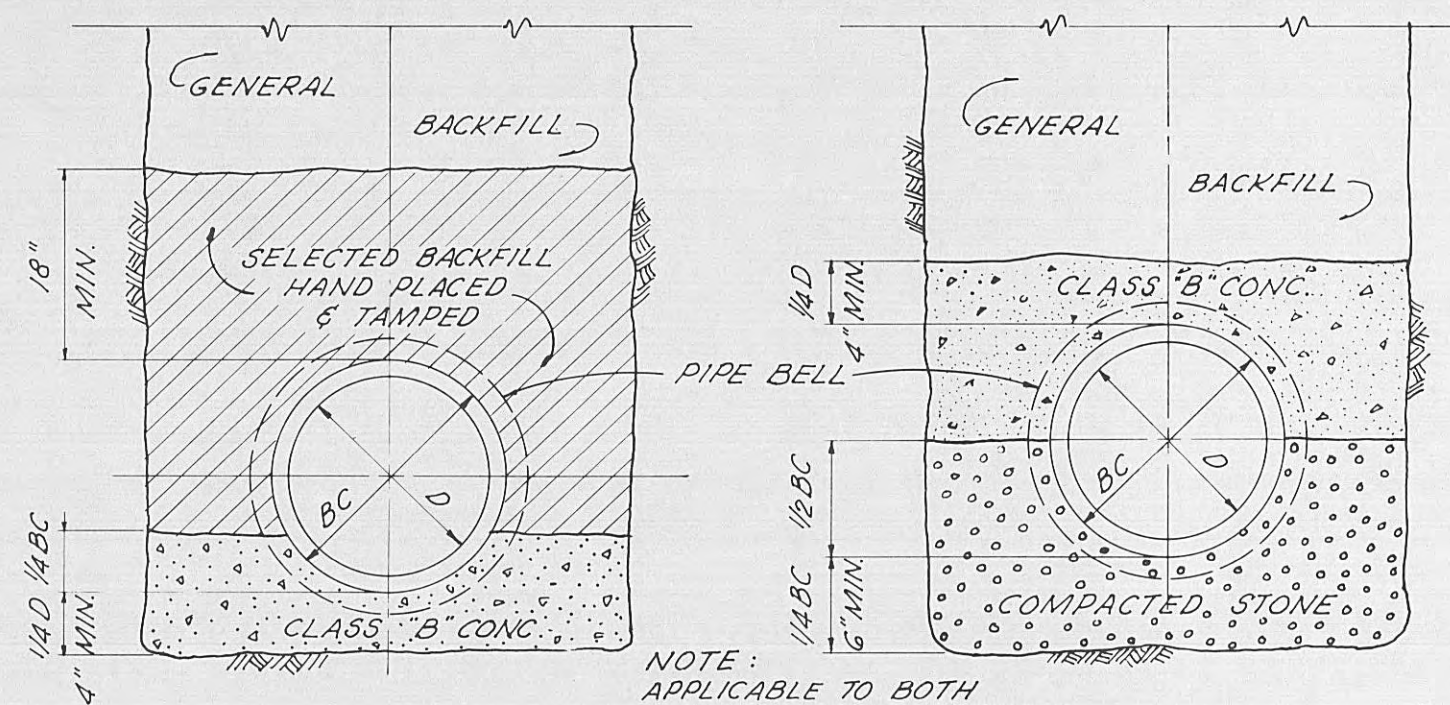
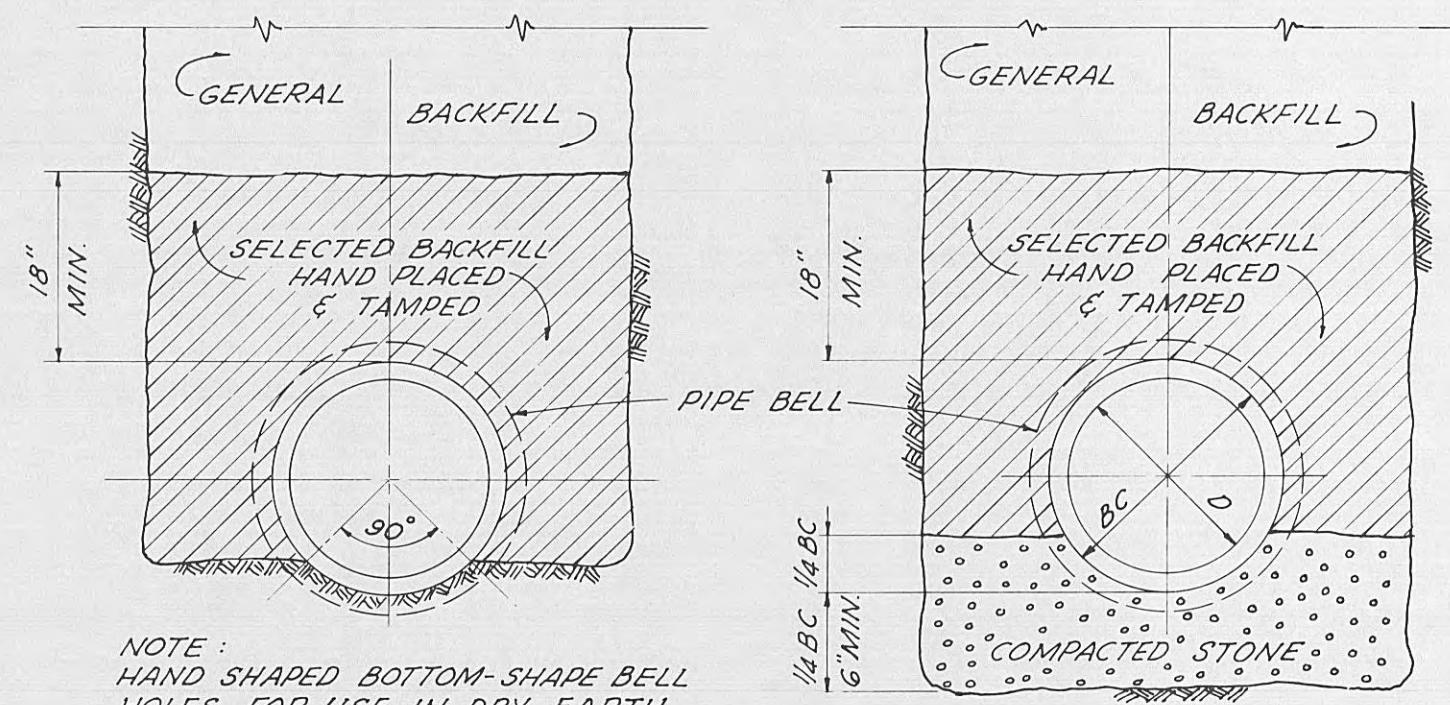
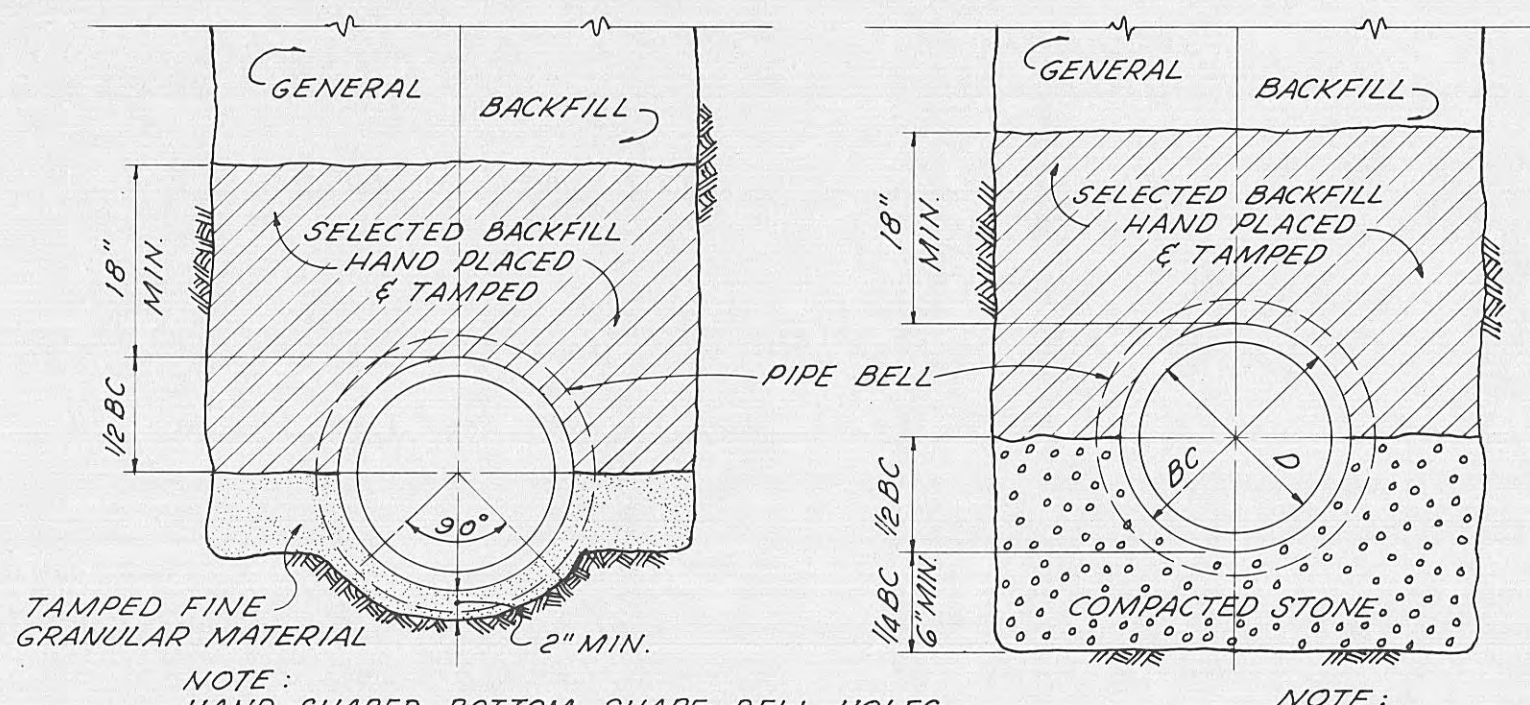




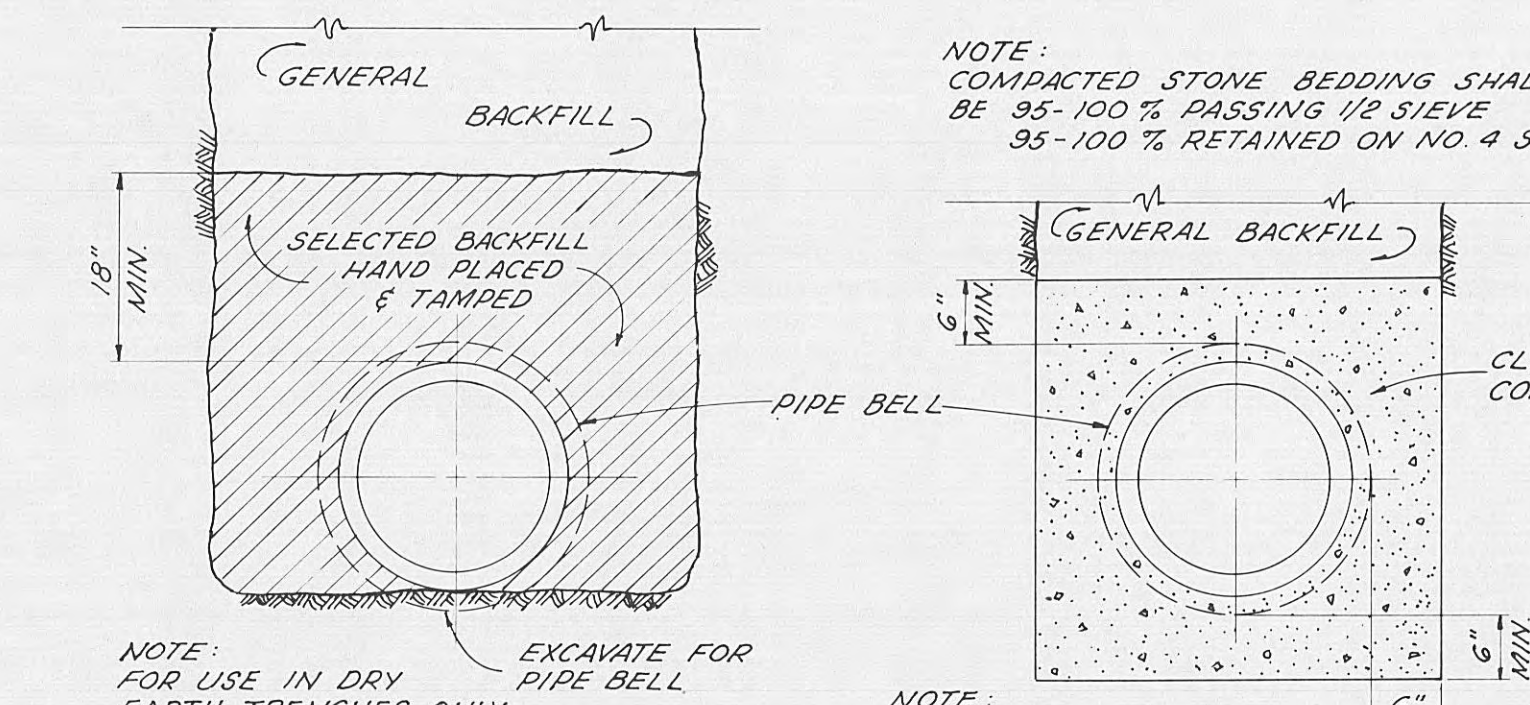
TYPE 1
CLASS "A" BEDDING
USE EITHER TYPE



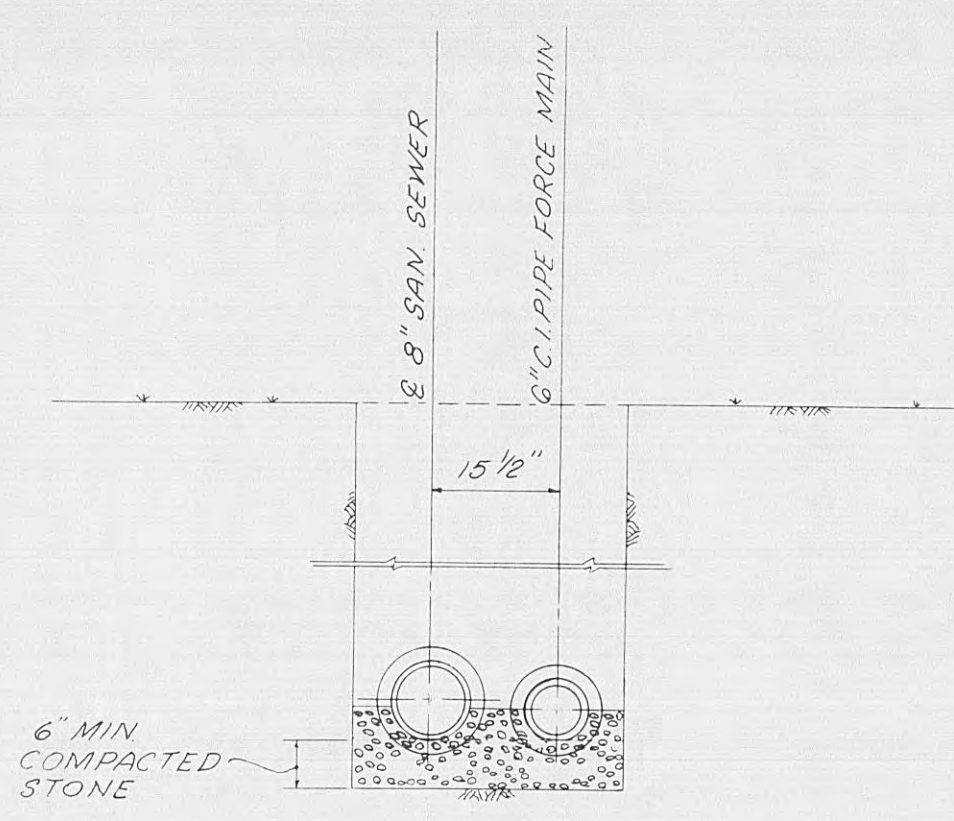
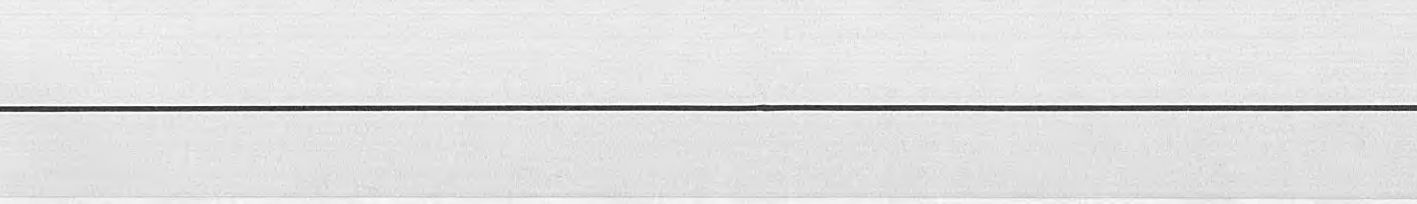
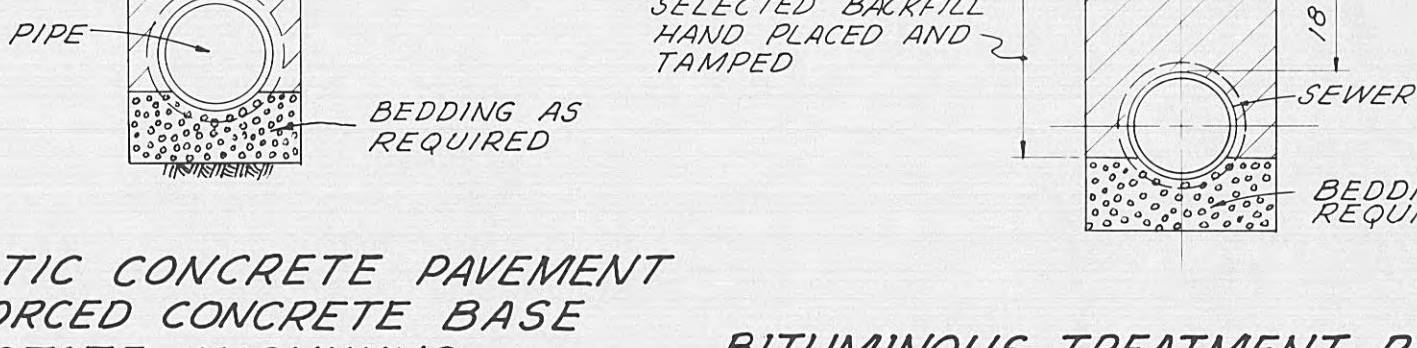
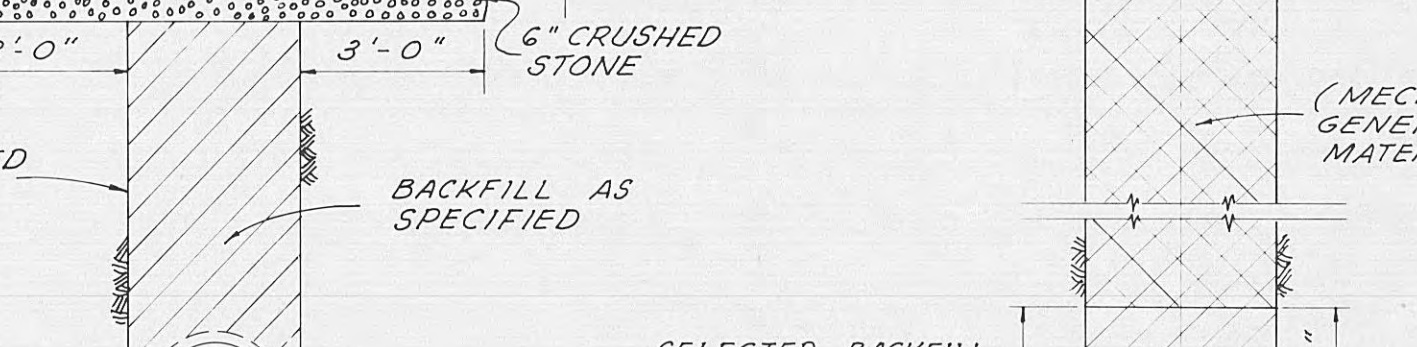
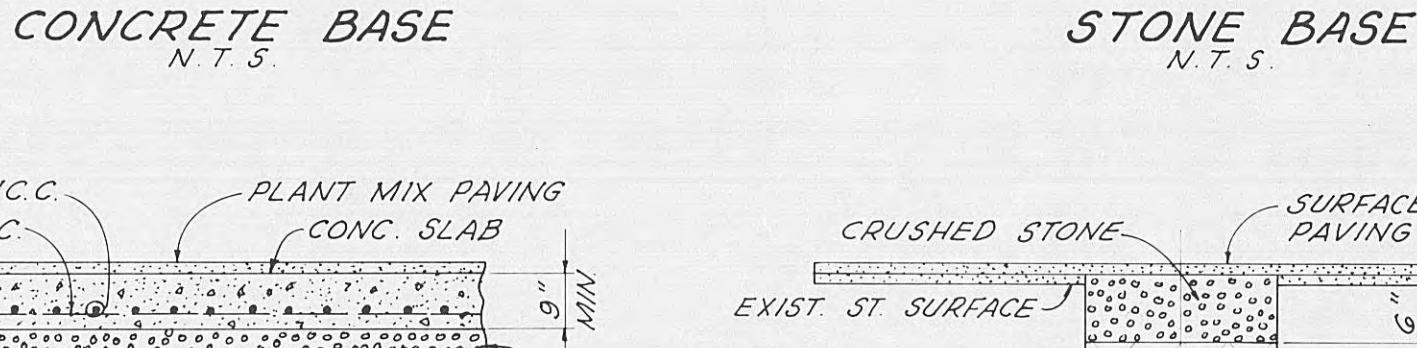
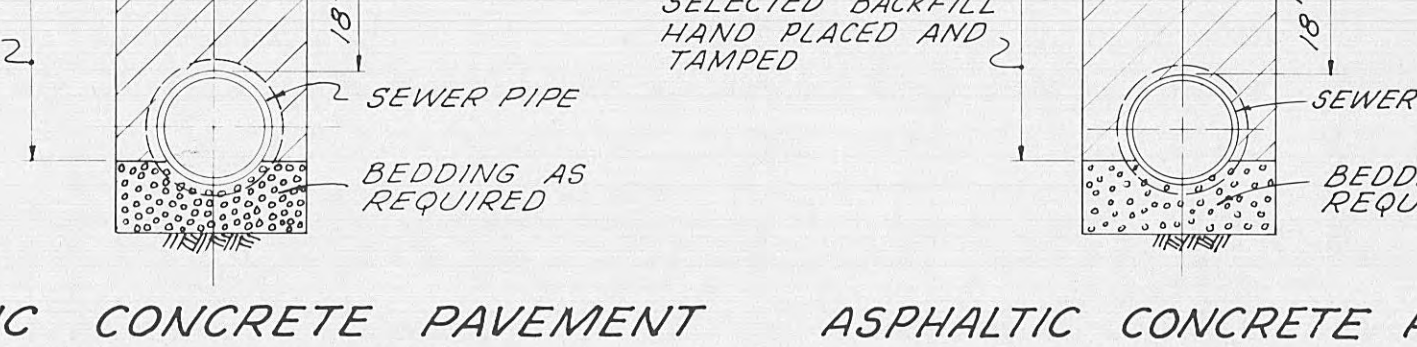
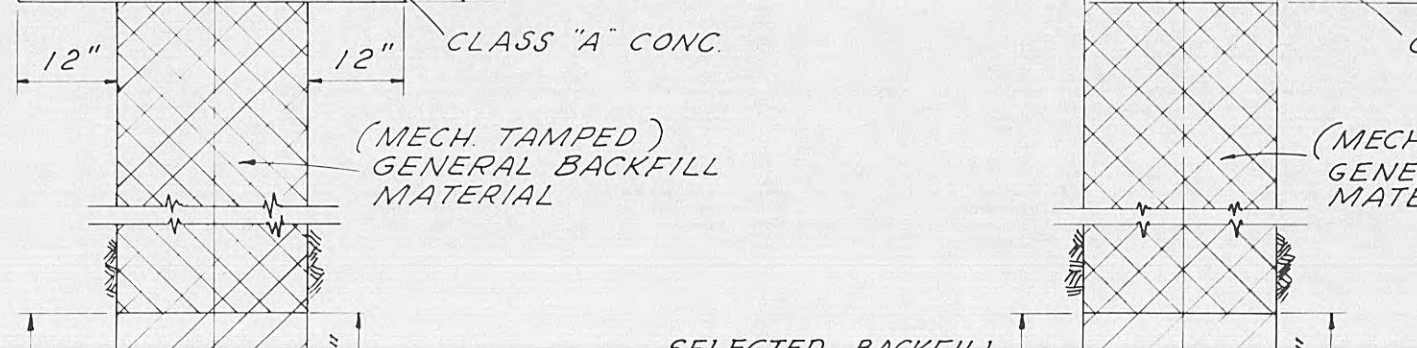
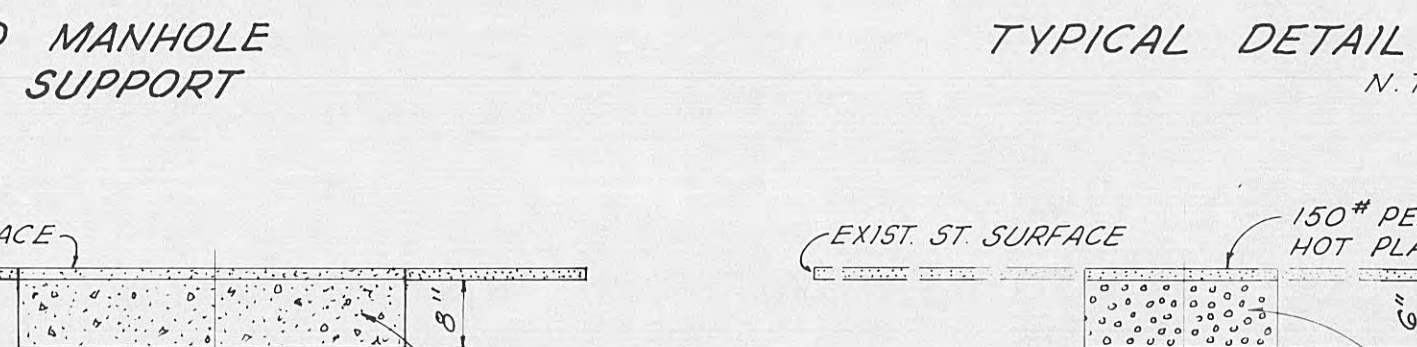
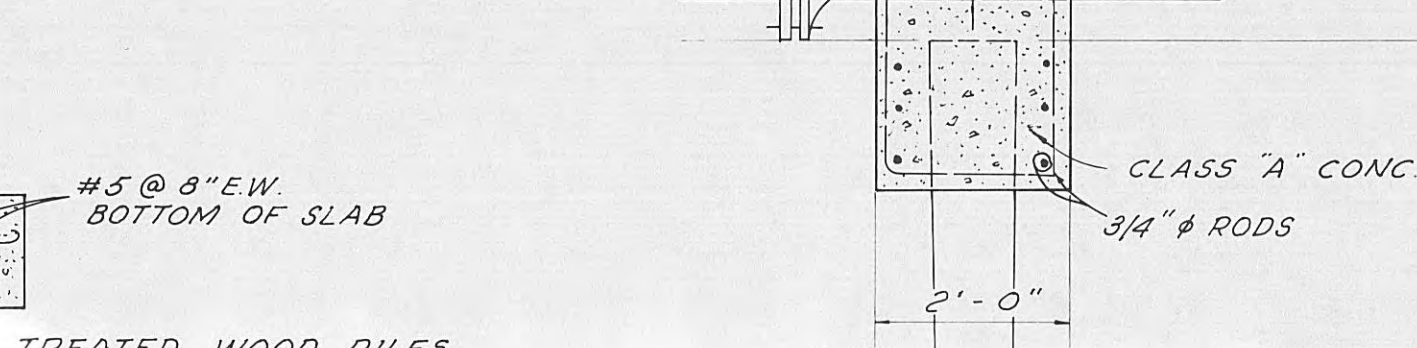
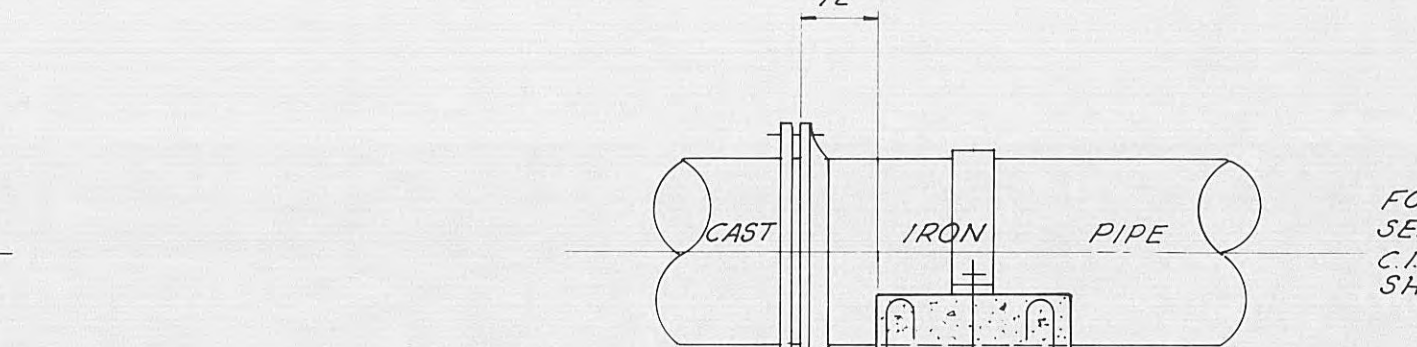
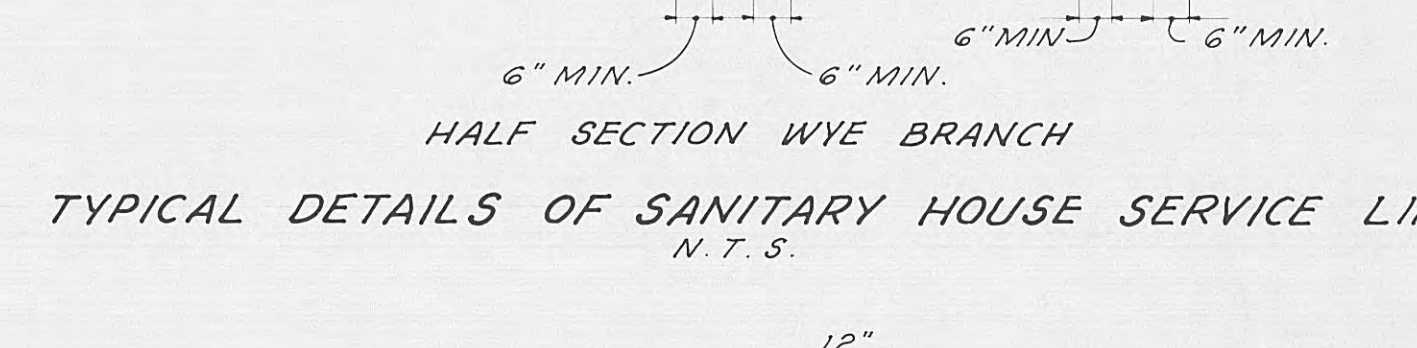
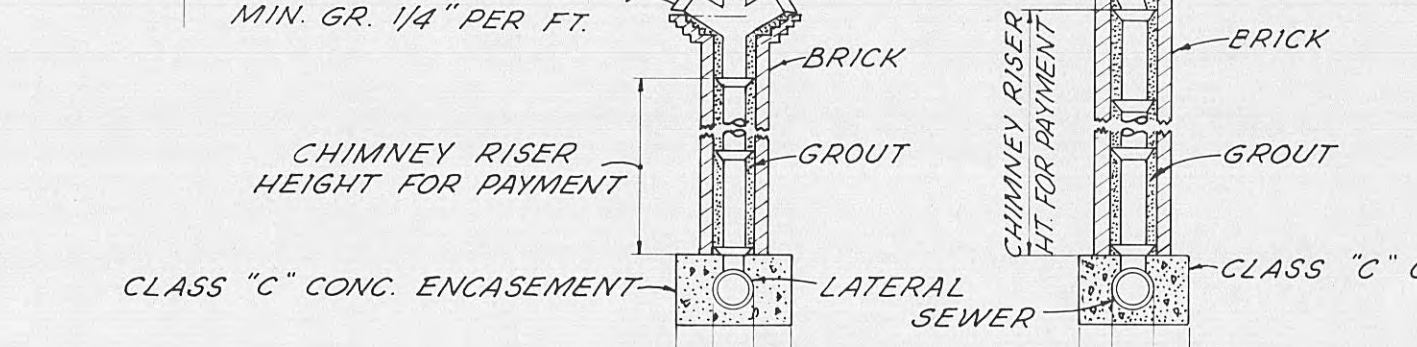
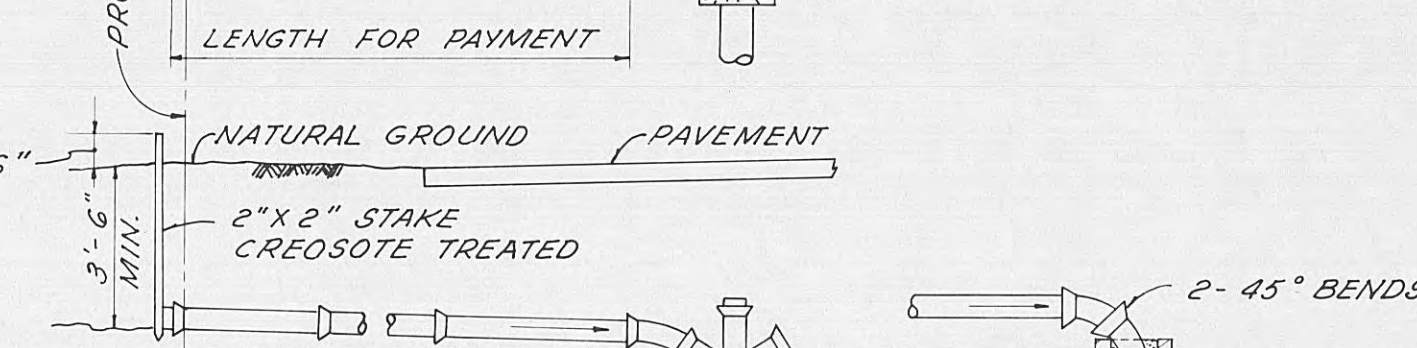
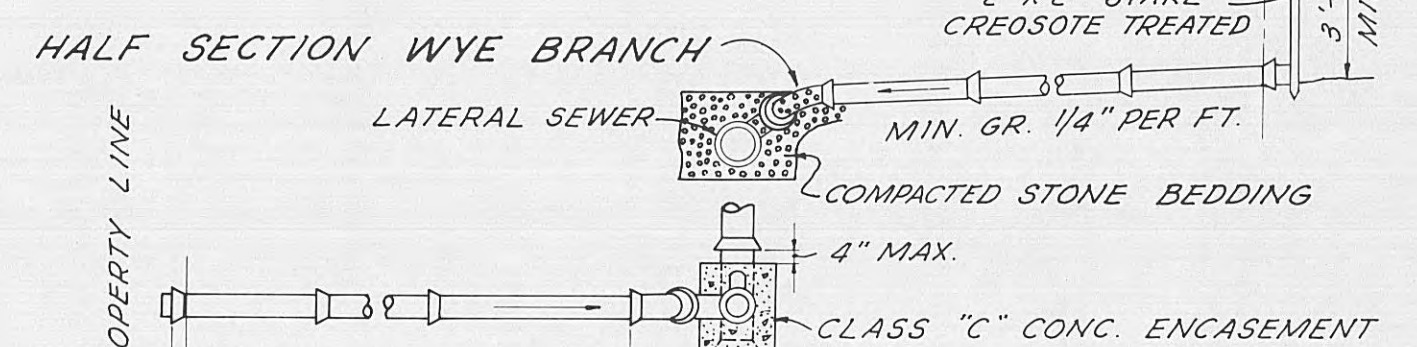
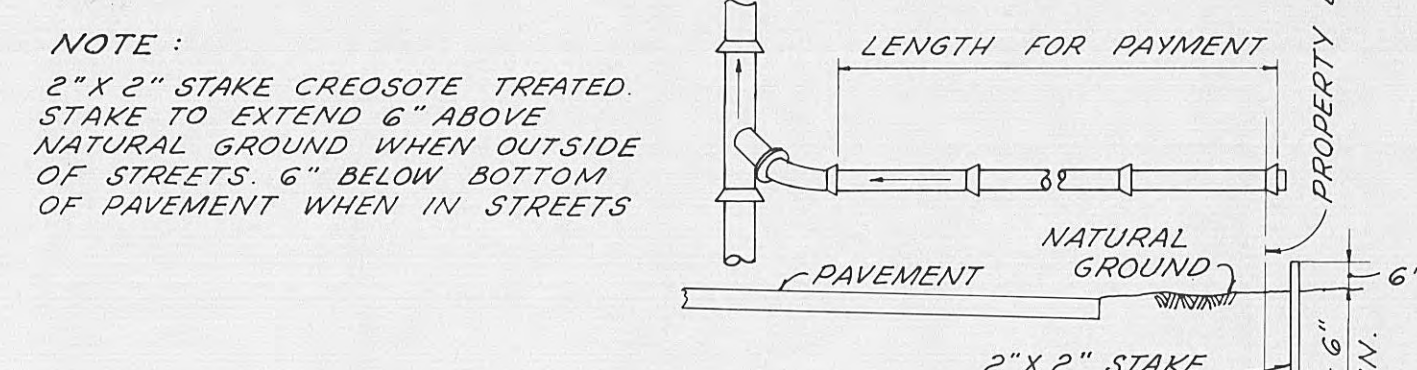
TYPE 1
CLASS "C" BEDDING
USE EITHER TYPE



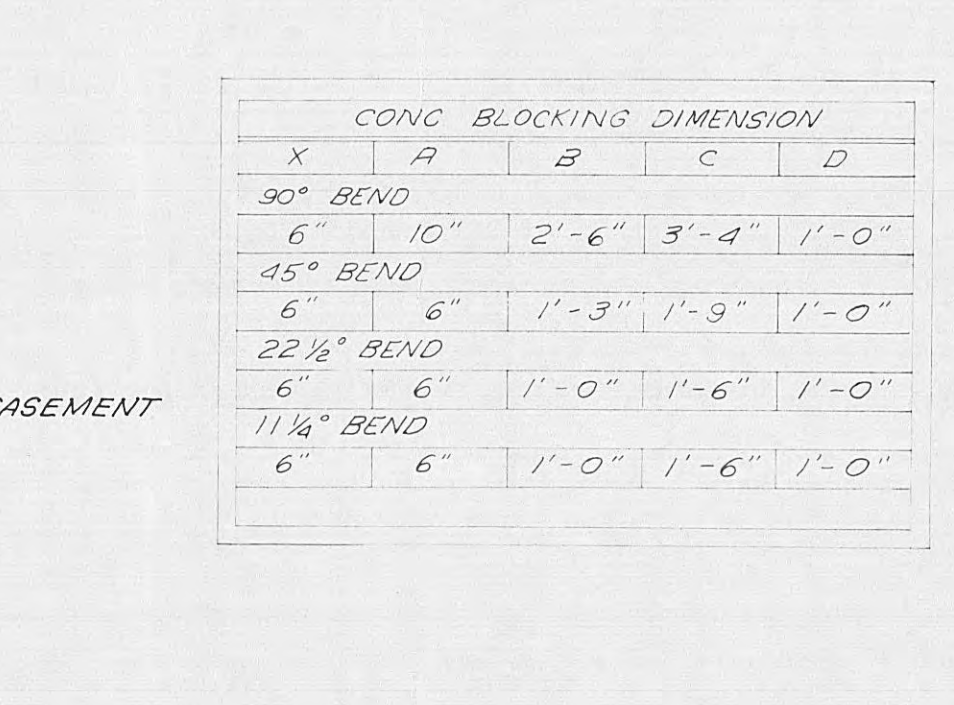
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USE EITHER TYPE



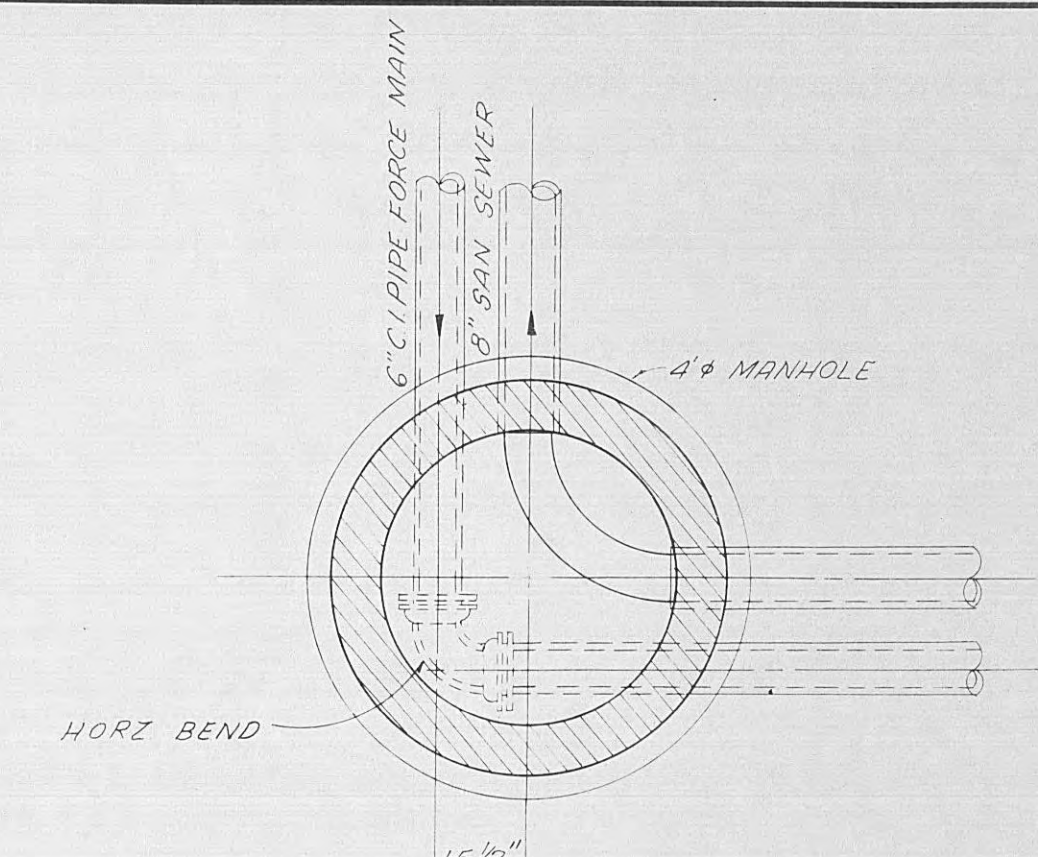
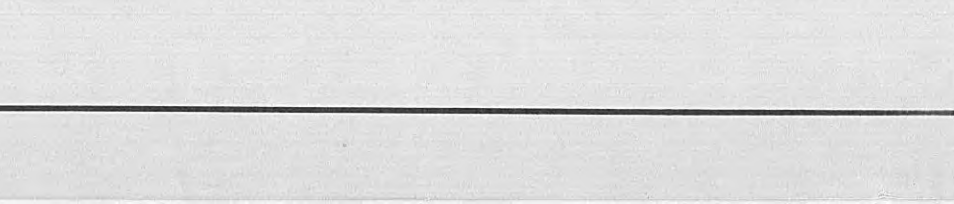
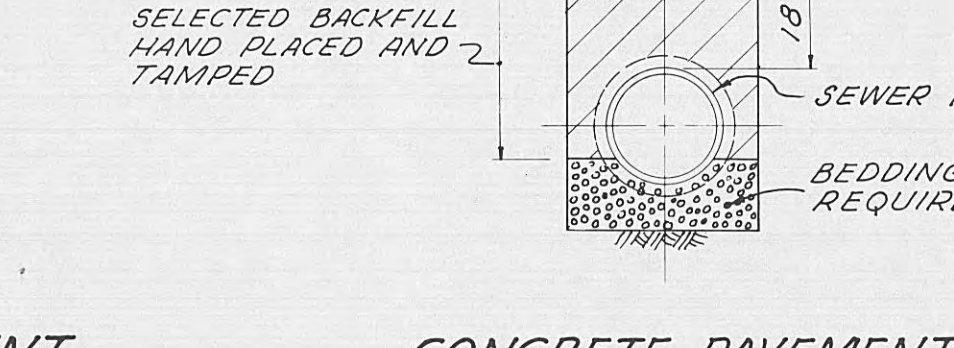
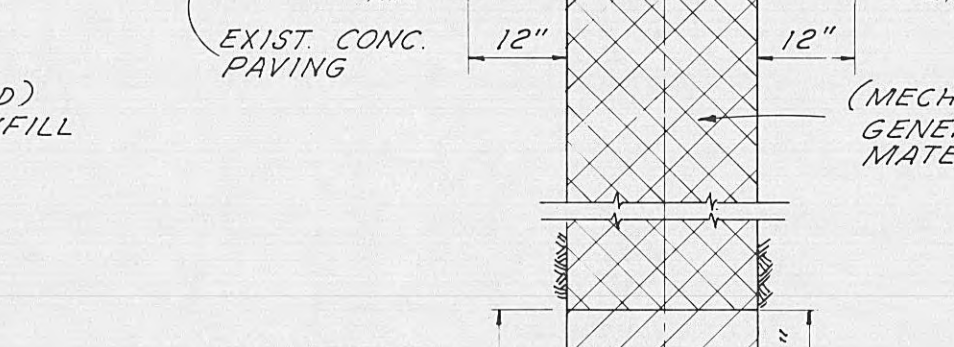
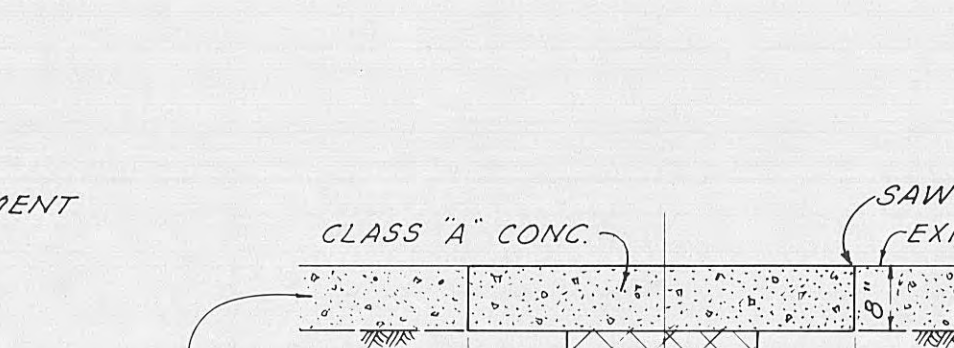
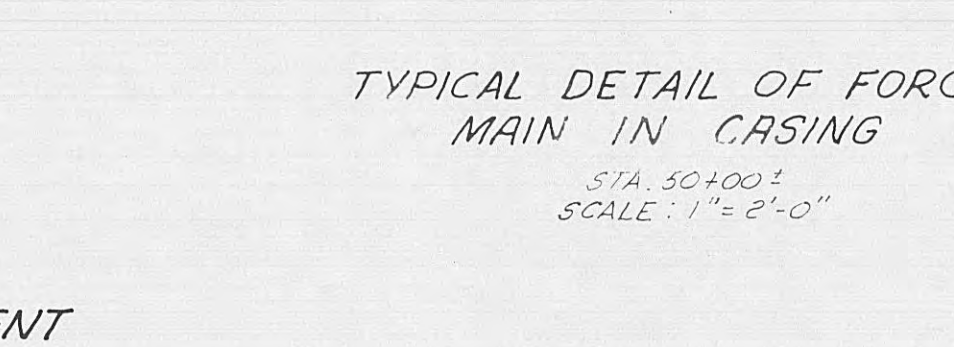
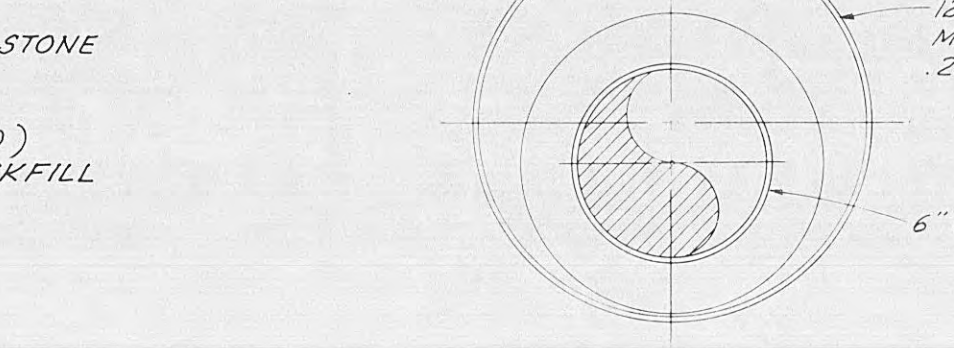
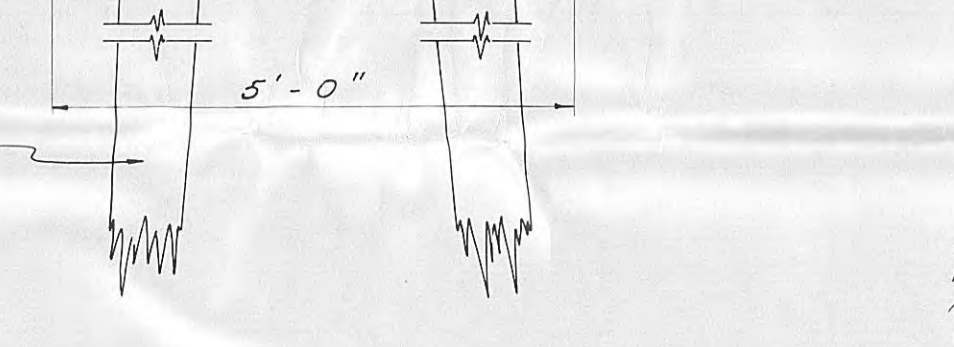
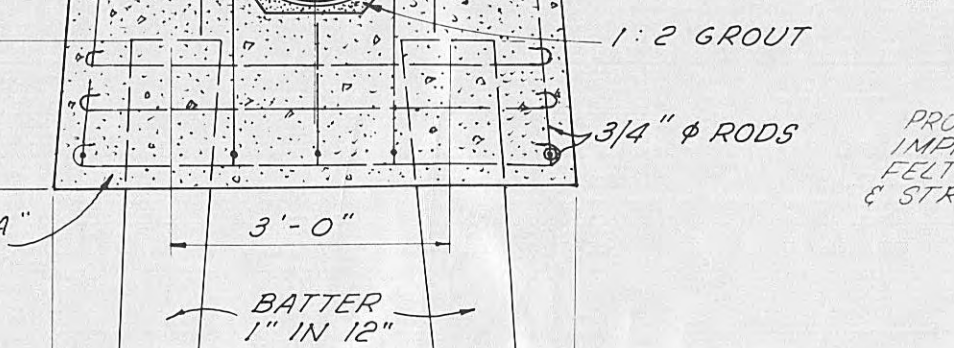
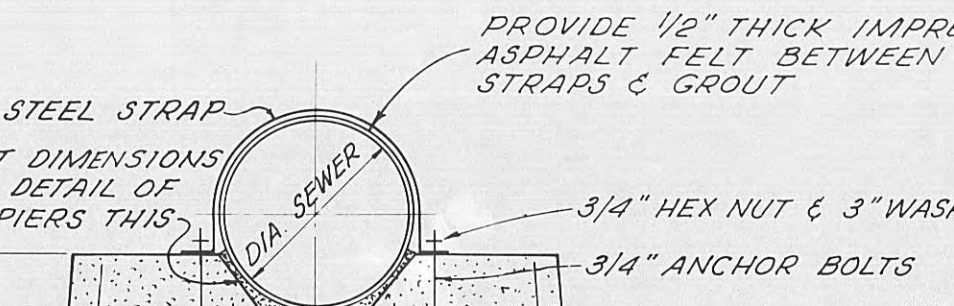
TYPE 1
CLASS "D" BEDDING
CONCRETE ENCASEMENT



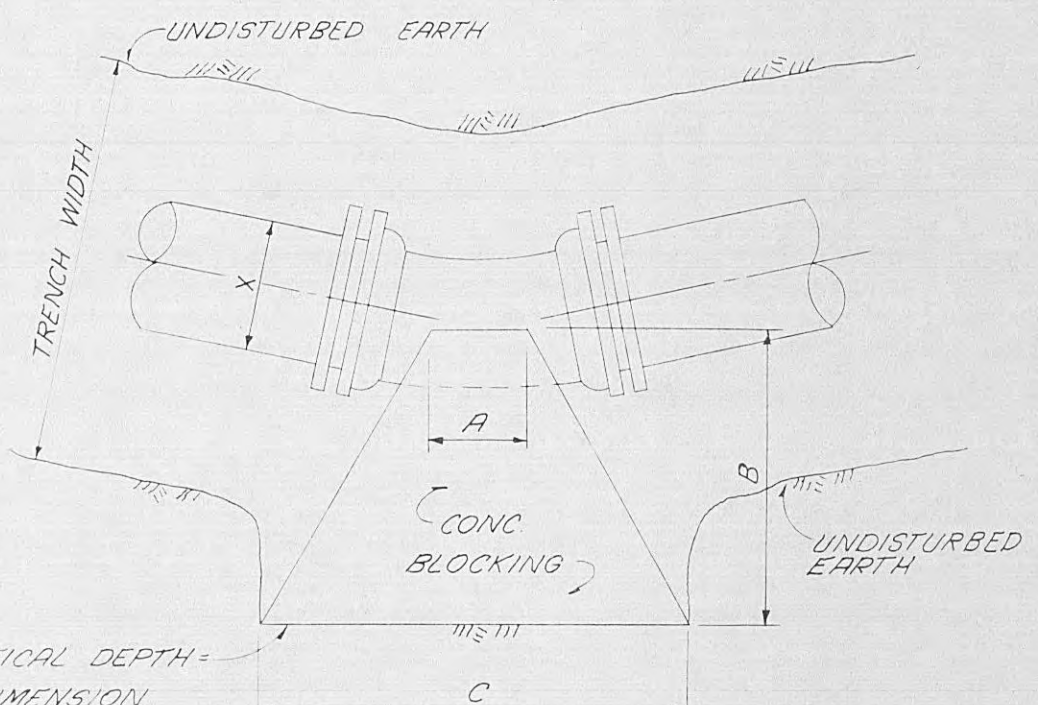
TYPE 1
CLASS "A" BEDDING
USE EITHER TYPE



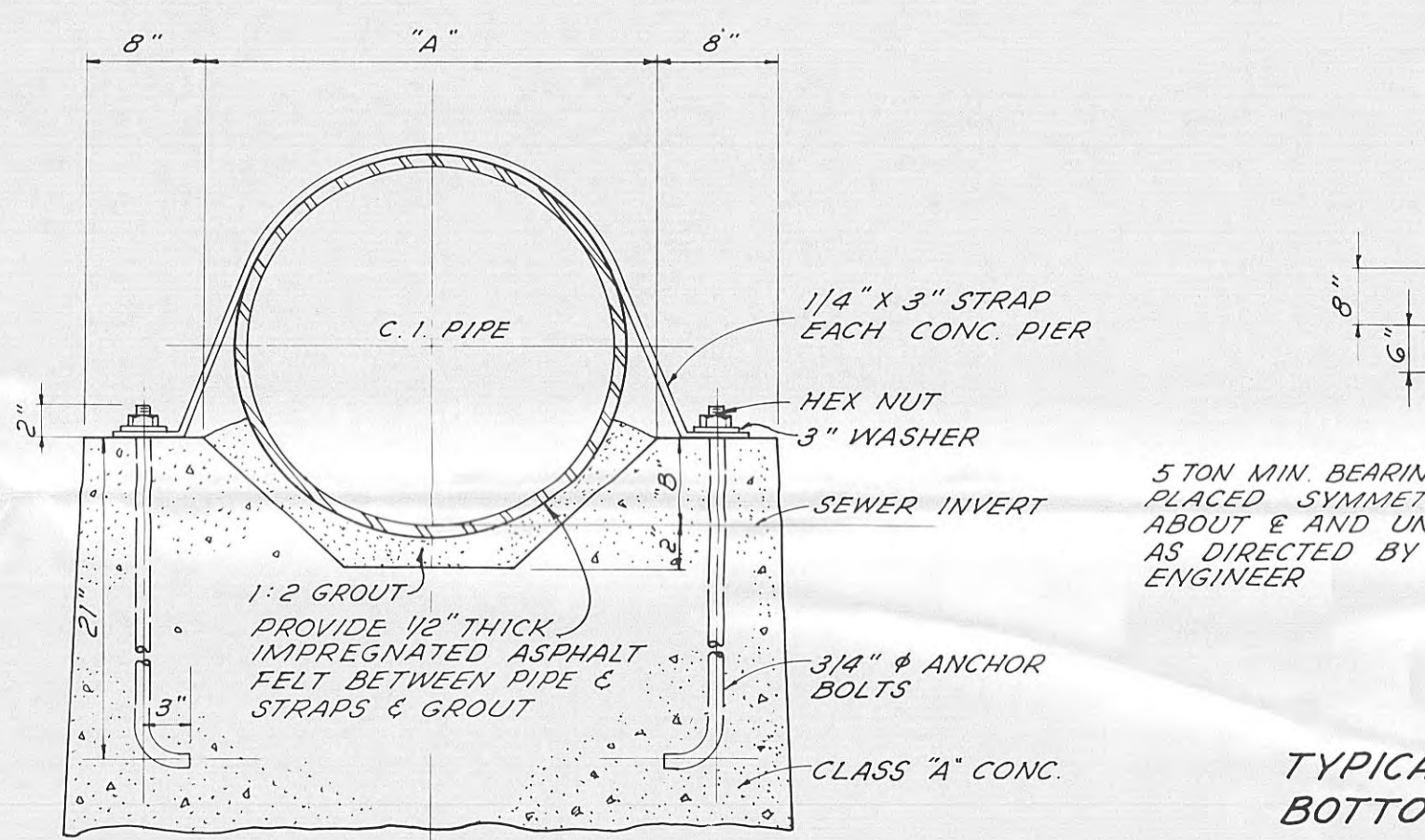
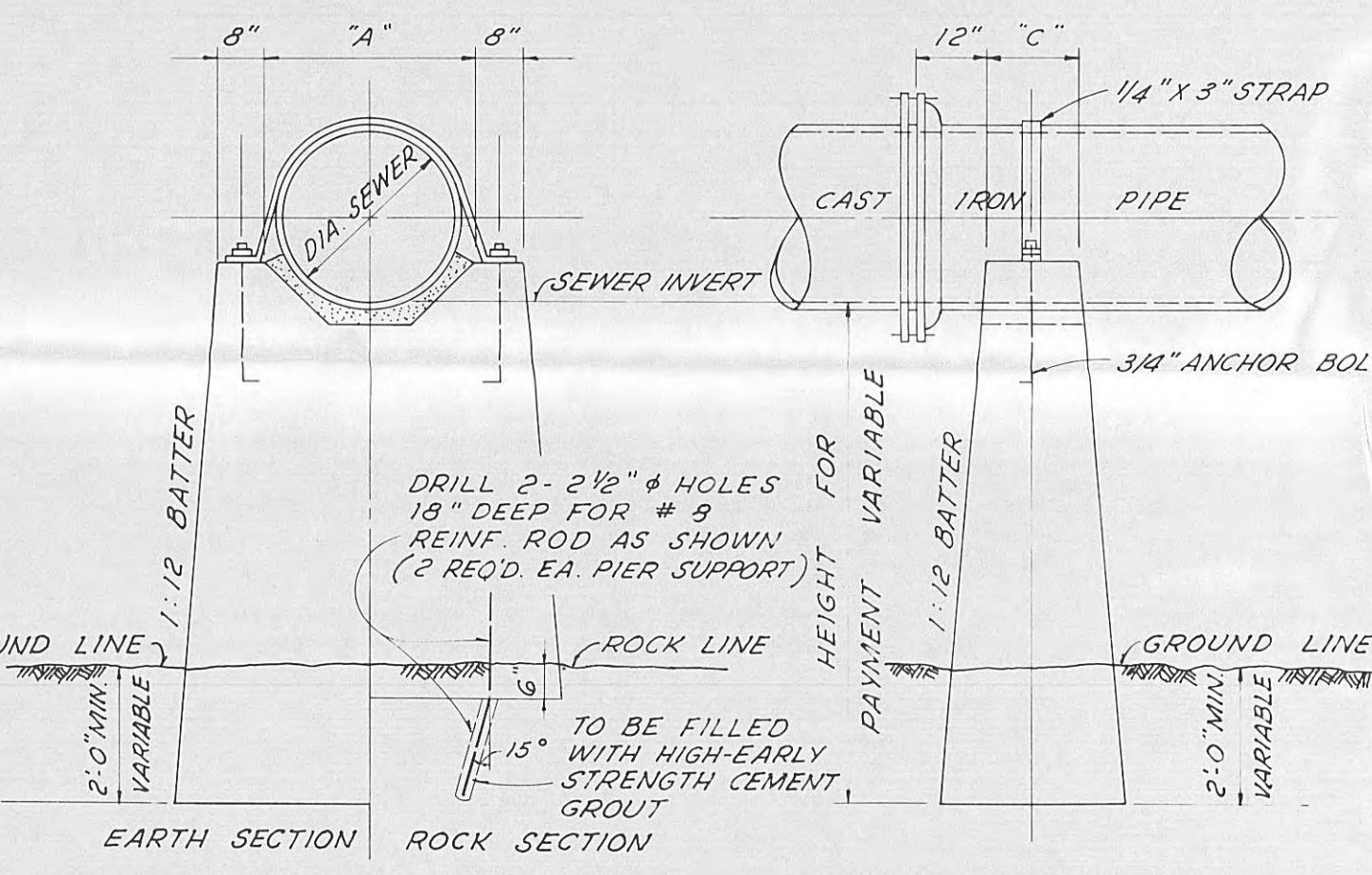
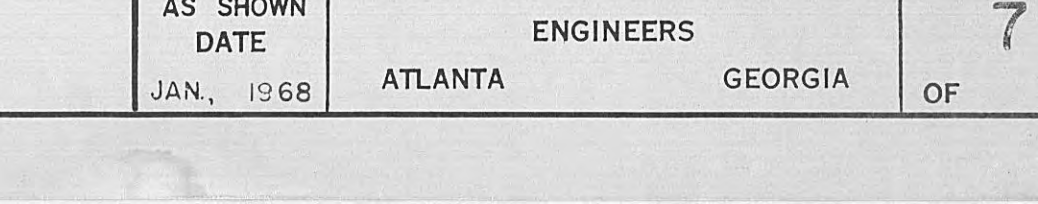
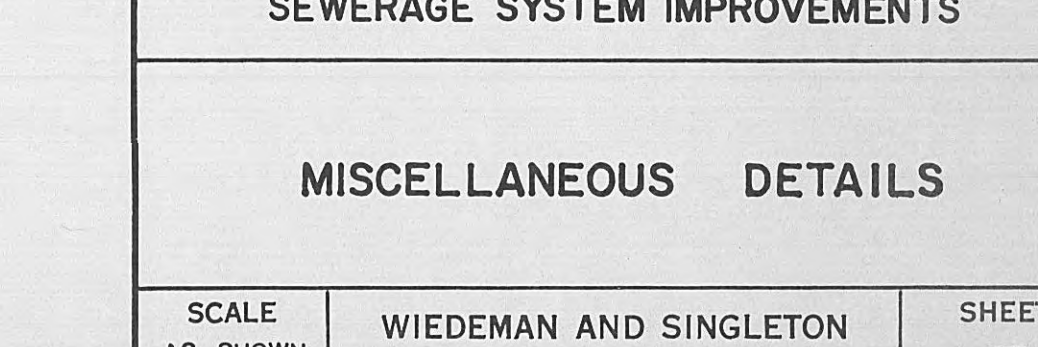
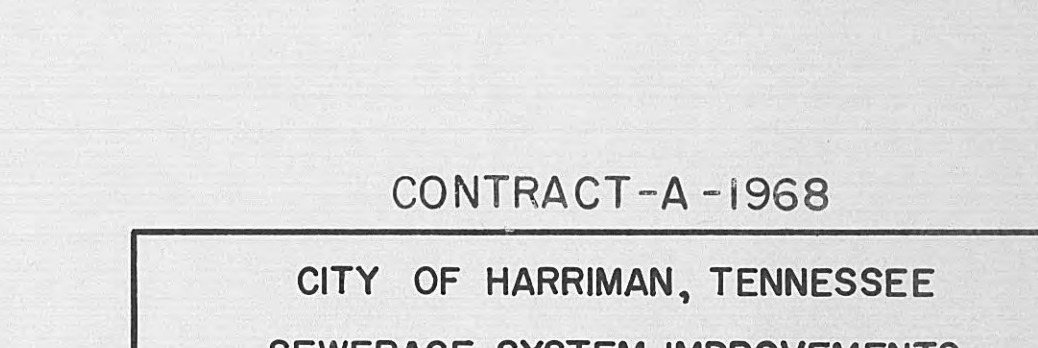
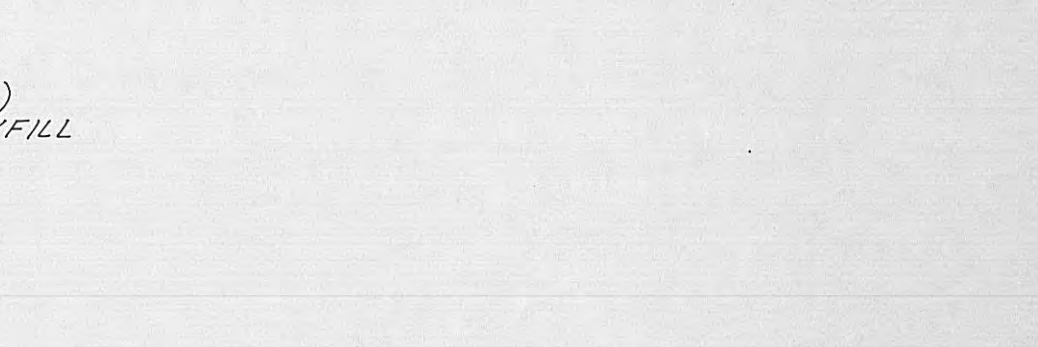
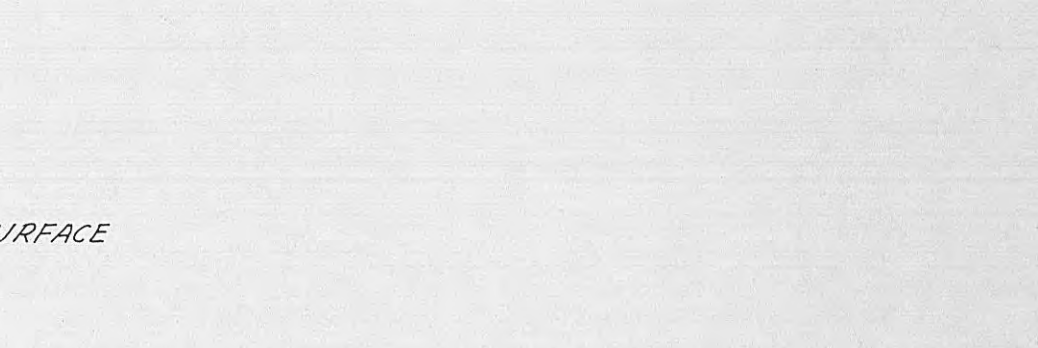
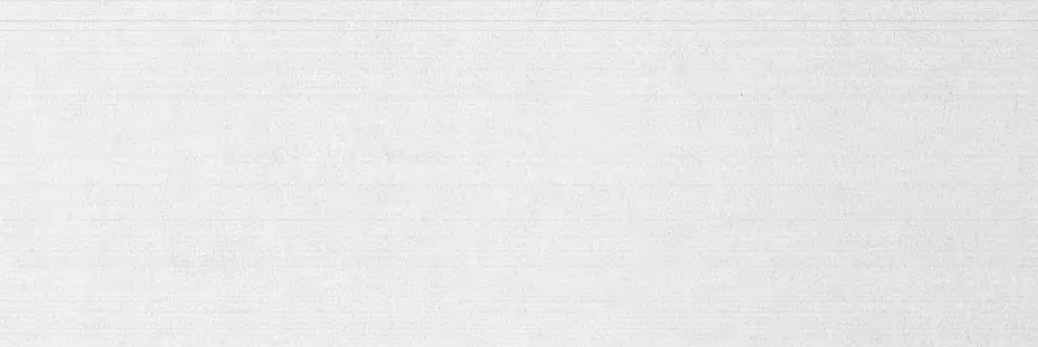
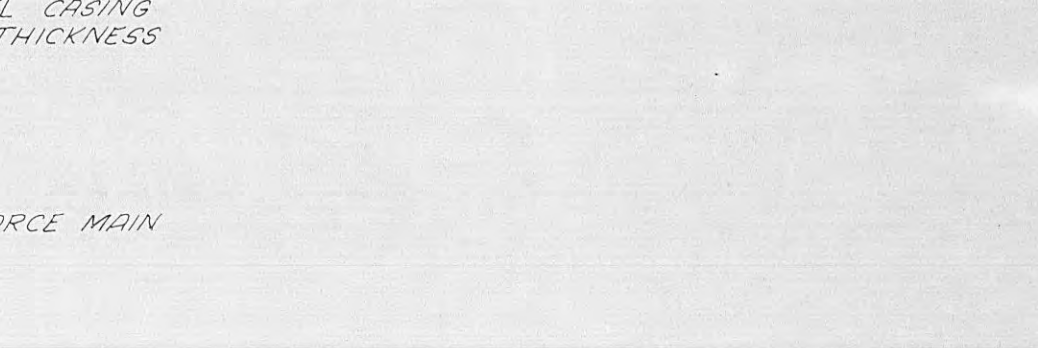
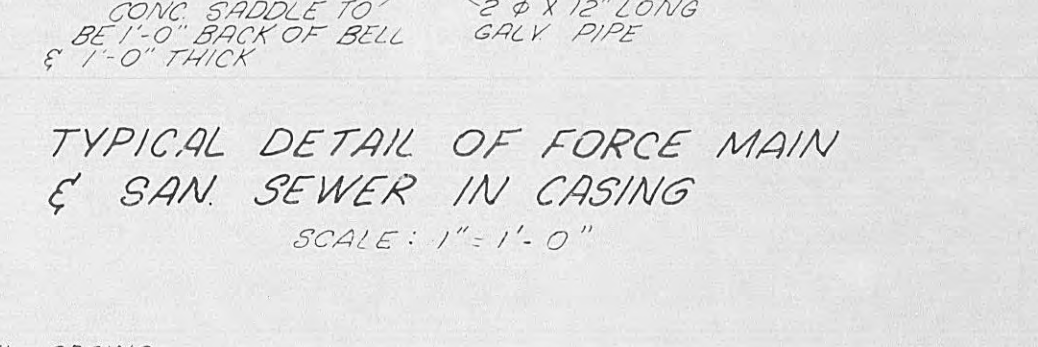
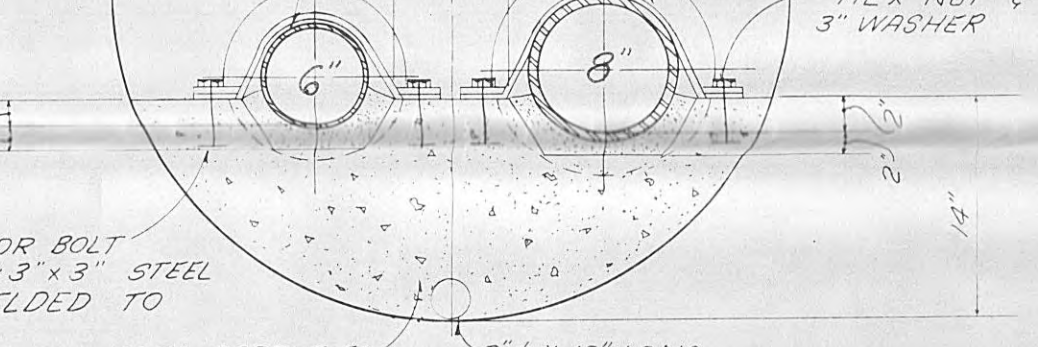
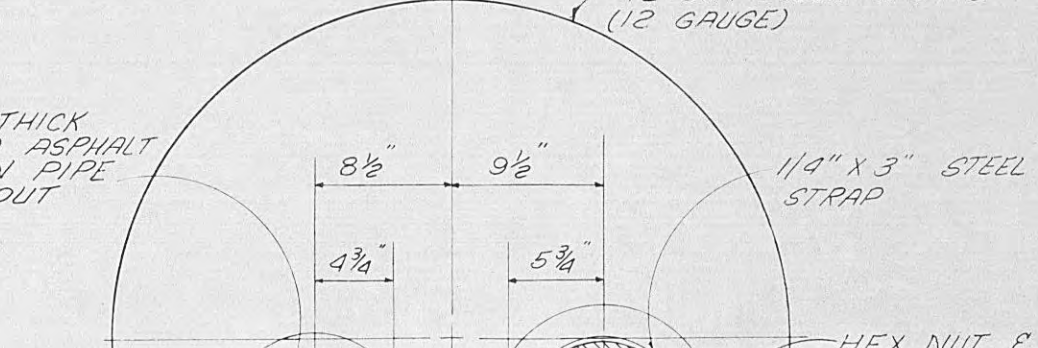
TYPE 1
CLASS "C" BEDDING
USE EITHER TYPE



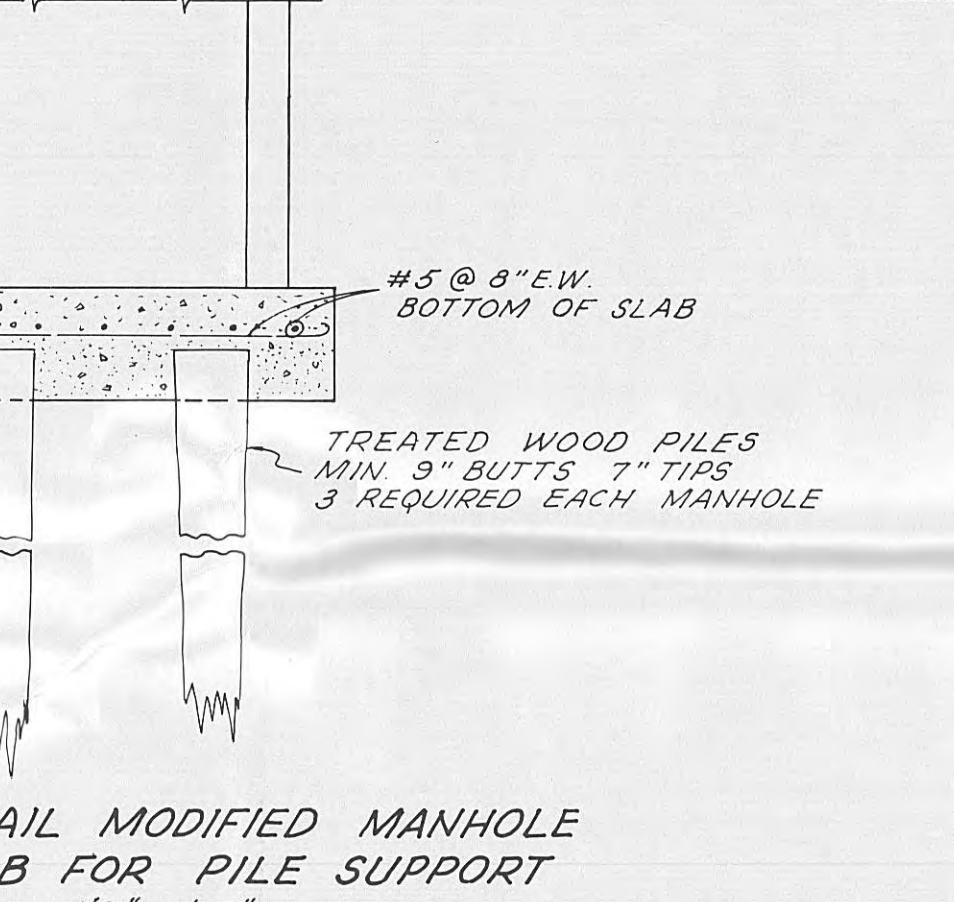
TYPE 1
CLASS "A" BEDDING
USE EITHER TYPE



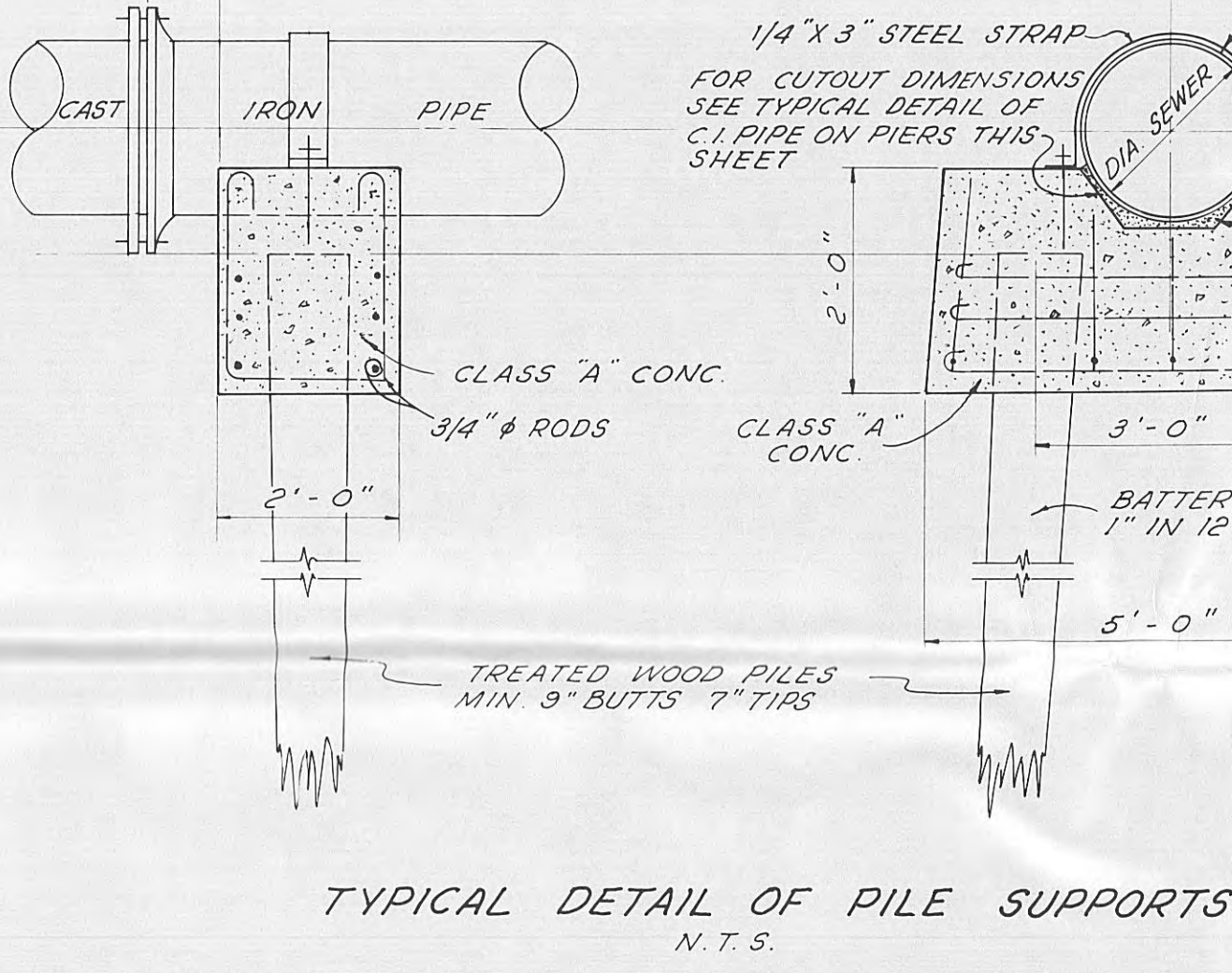
TYPE 1
CLASS "C" BEDDING
USE EITHER TYPE



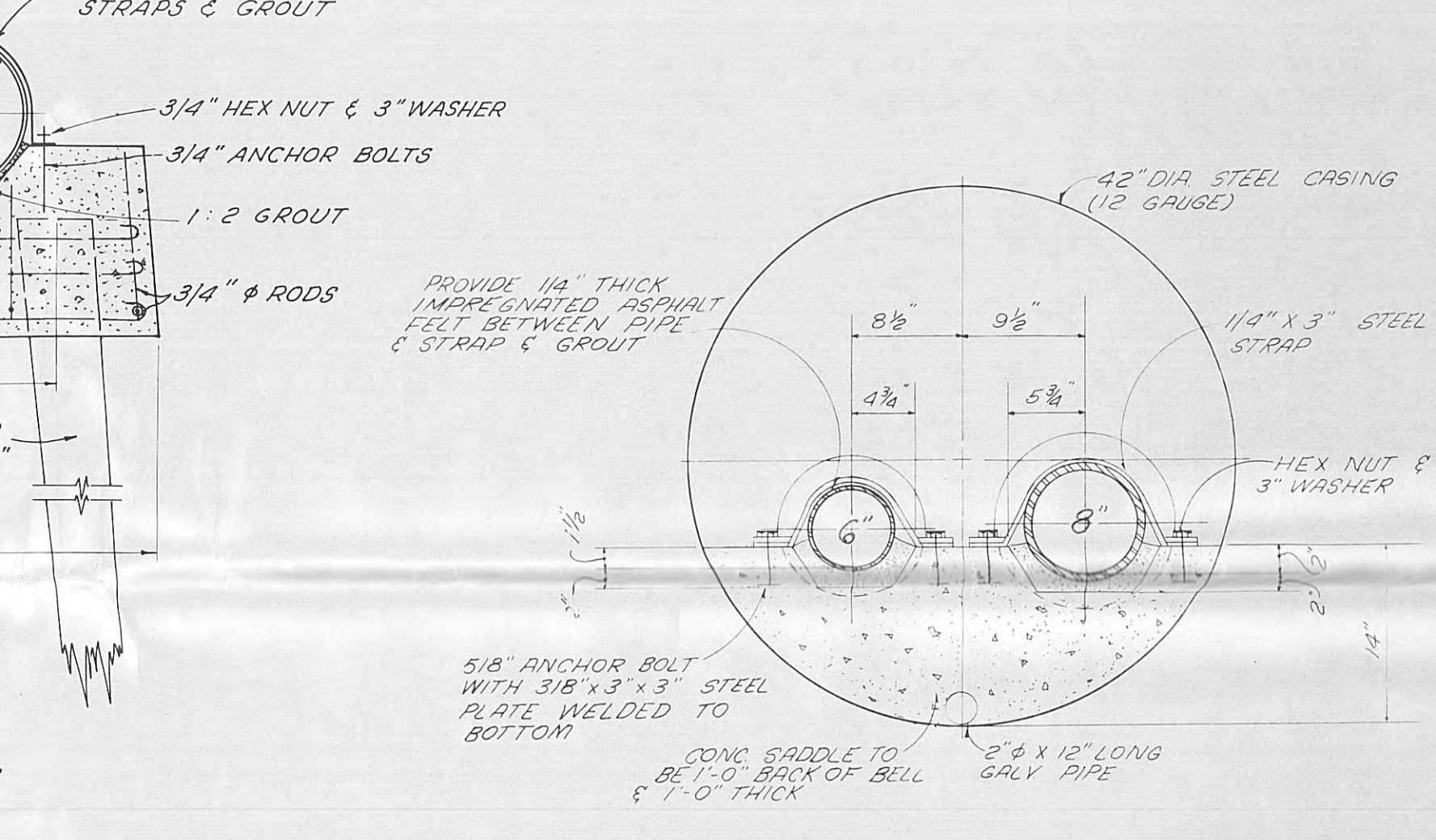
TYPE 1
CLASS "A" BEDDING
USE EITHER TYPE



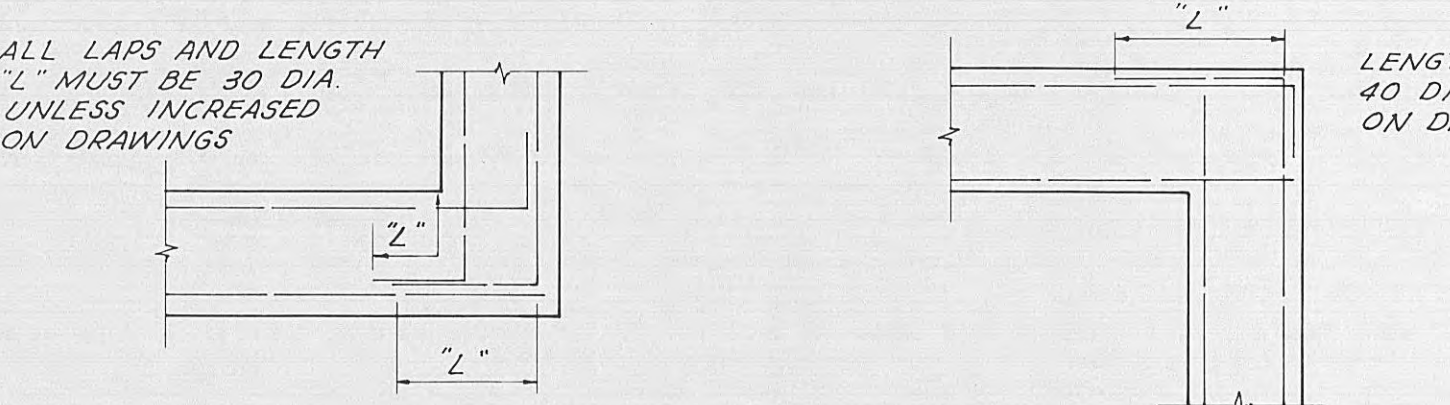
TYPE 1
CLASS "C" BEDDING
USE EITHER TYPE



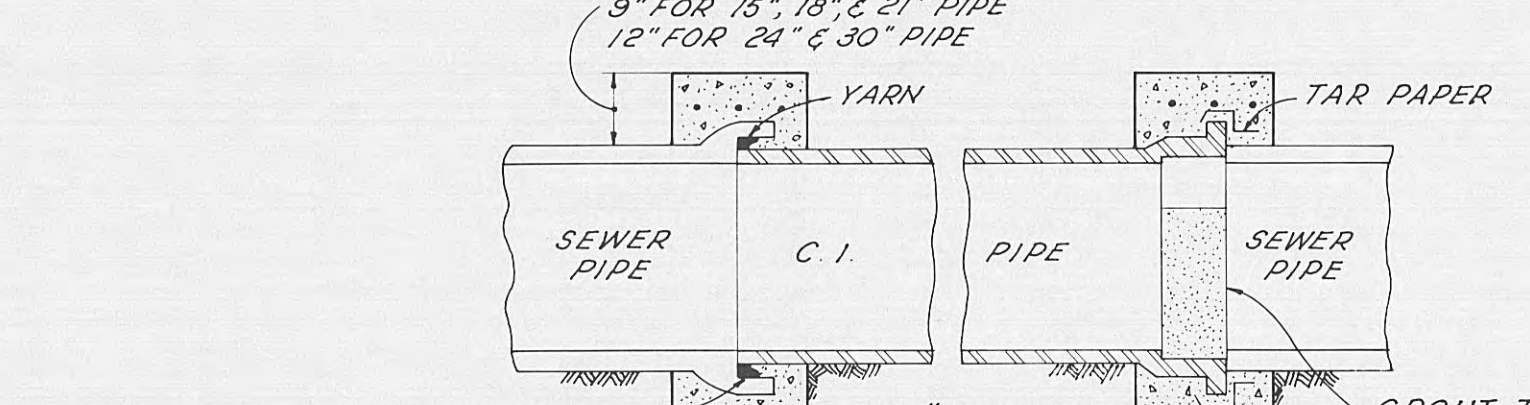
TYPE 1
CLASS "D" BEDDING
CONCRETE ENCASEMENT



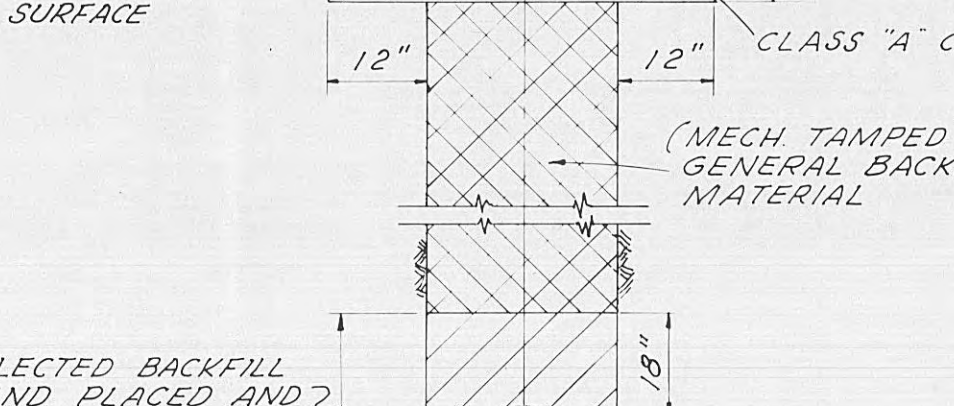
TYPE 1
CLASS "A" BEDDING
USE EITHER TYPE



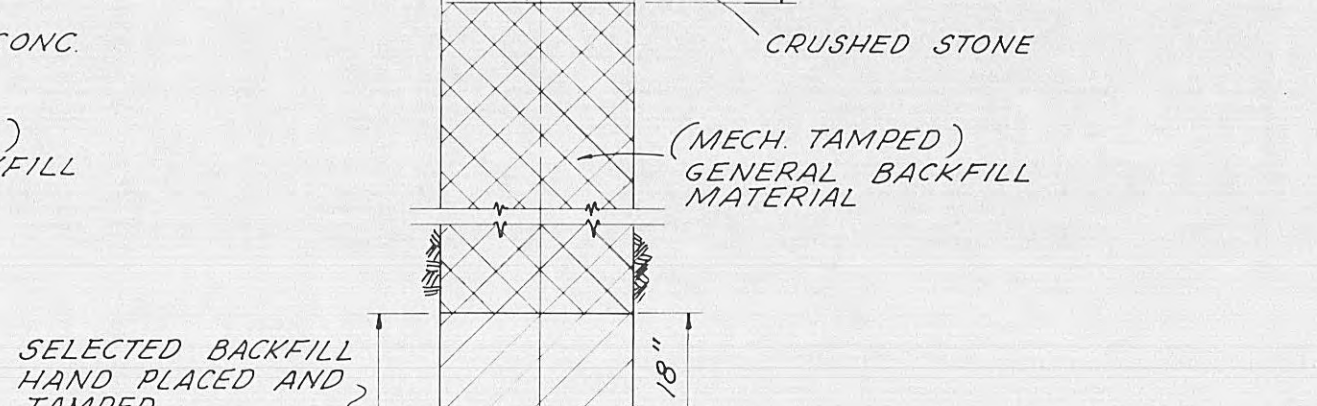
1" DIA. PIPE	A	B	C
8"	11 1/2"	2"	5"
10"	13 1/2"	2 1/2"	10"
12"	15 1/2"	3"	10"
14"	17 1/2"	3 1/2"	11"
16"	19 1/2"	4"	12"
18"	21 1/2"	4 1/2"	12"
20"	23 1/2"	5"	12"
24"	26 1/2"	6"	16"



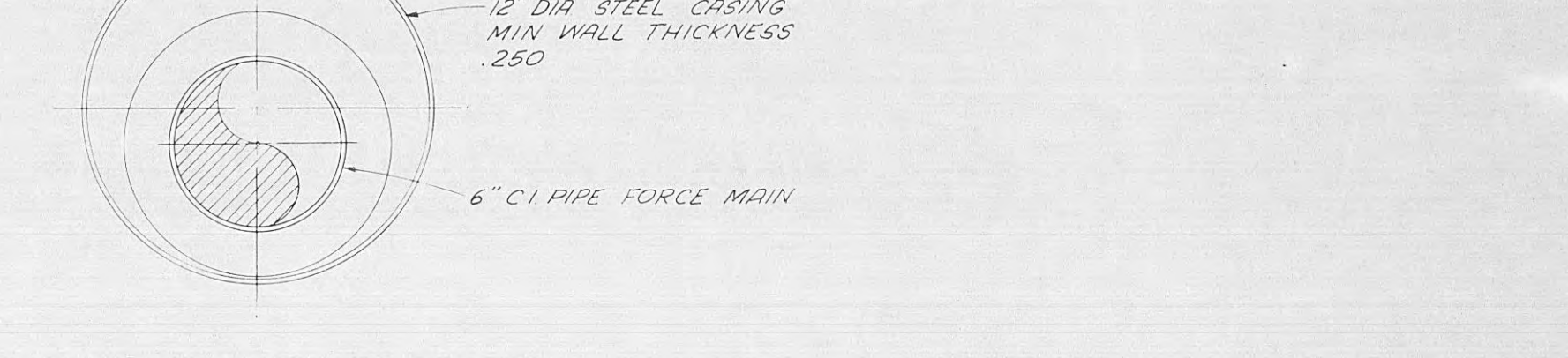
TYPE 1
CLASS "A" BEDDING
USE EITHER TYPE



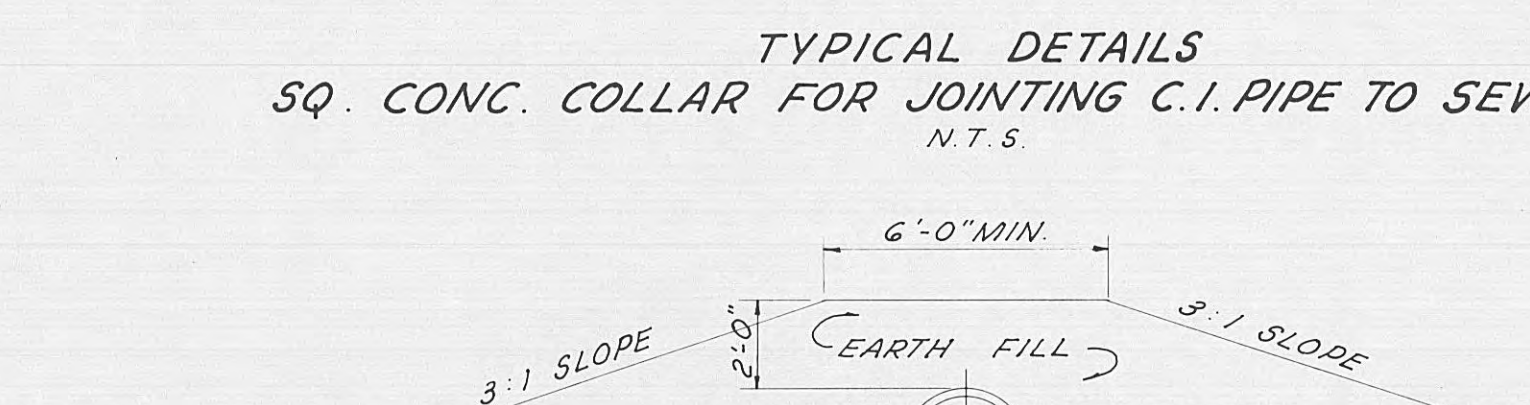
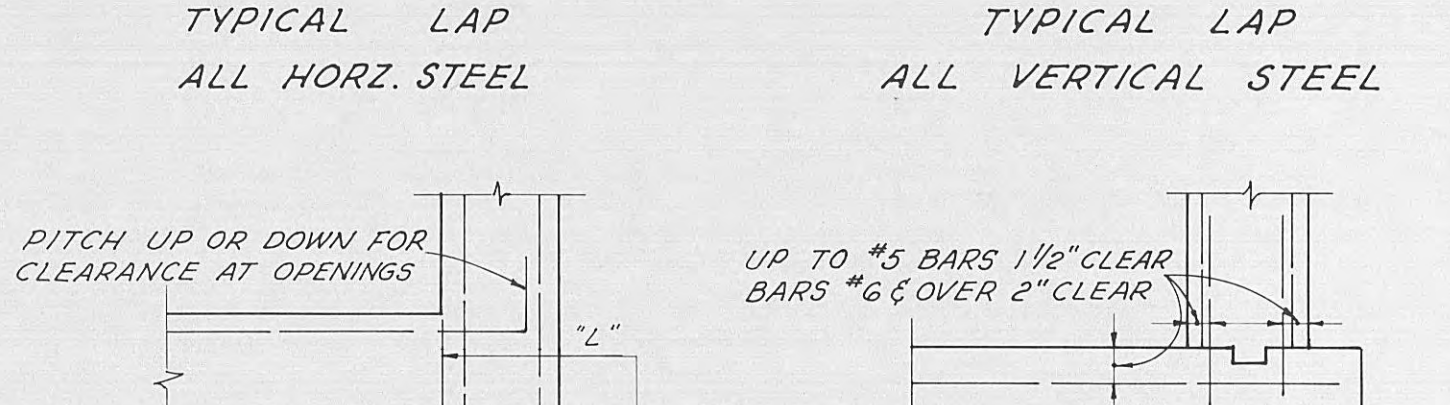
TYPE 1
CLASS "C" BEDDING
USE EITHER TYPE



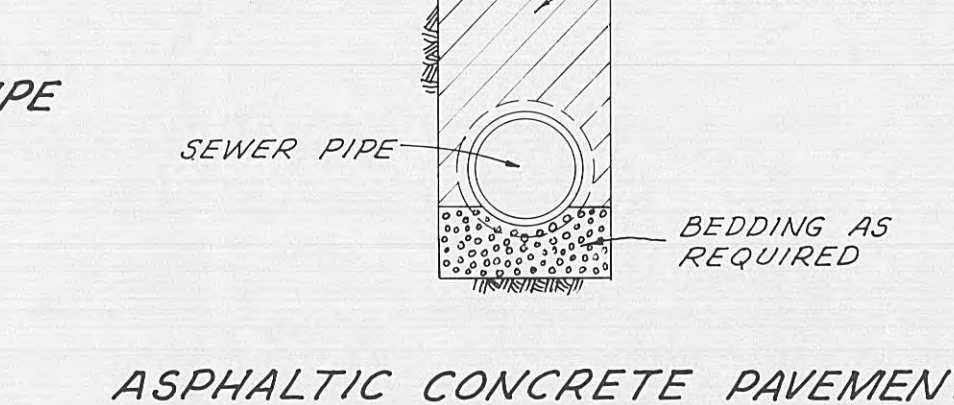
TYPE 1
CLASS "D" BEDDING
CONCRETE ENCASEMENT



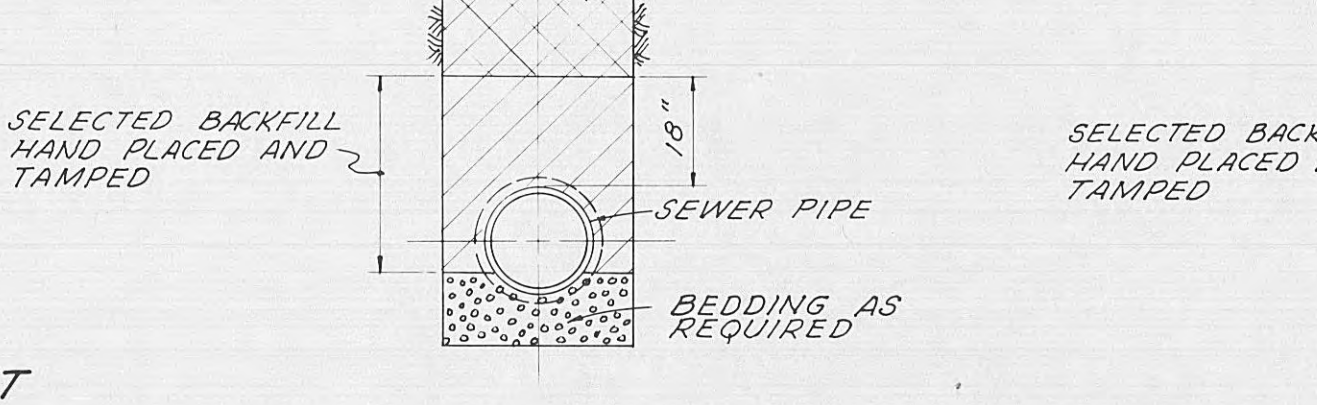
TYPE 1
CLASS "A" BEDDING
USE EITHER TYPE



TYPE 1
CLASS "A" BEDDING
USE EITHER TYPE



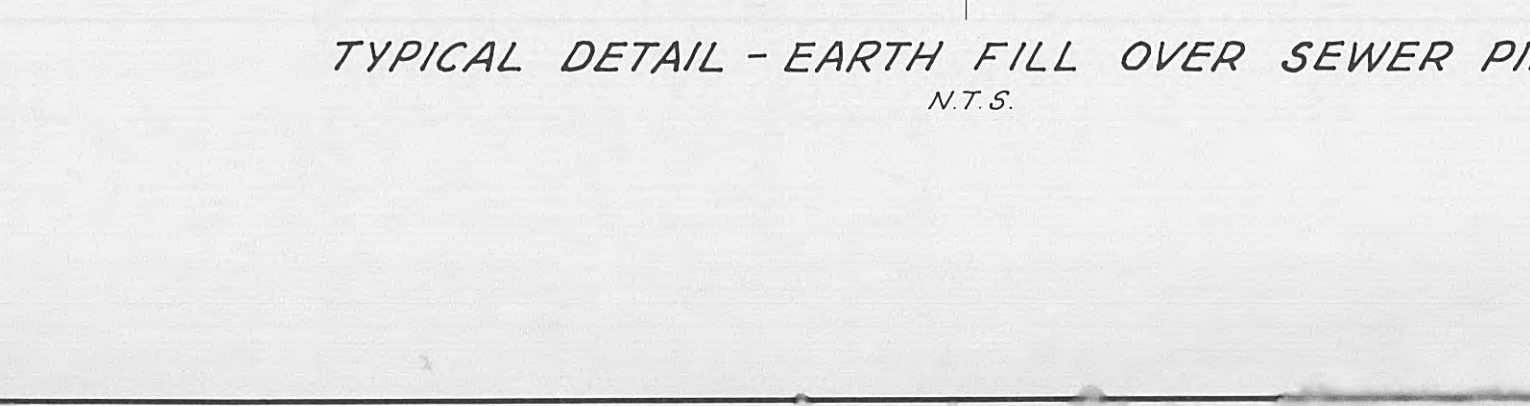
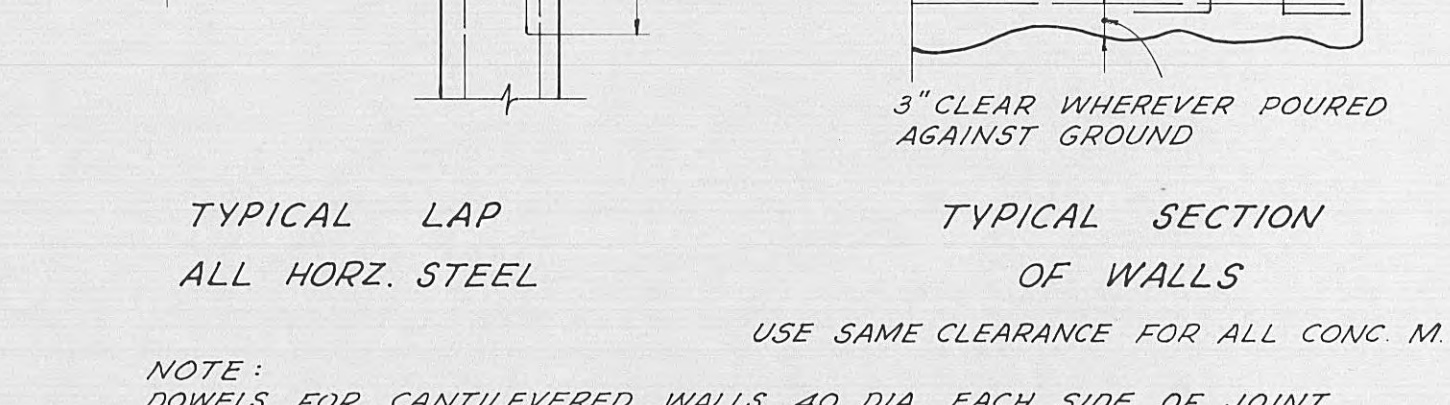
TYPE 1
CLASS "C" BEDDING
USE EITHER TYPE



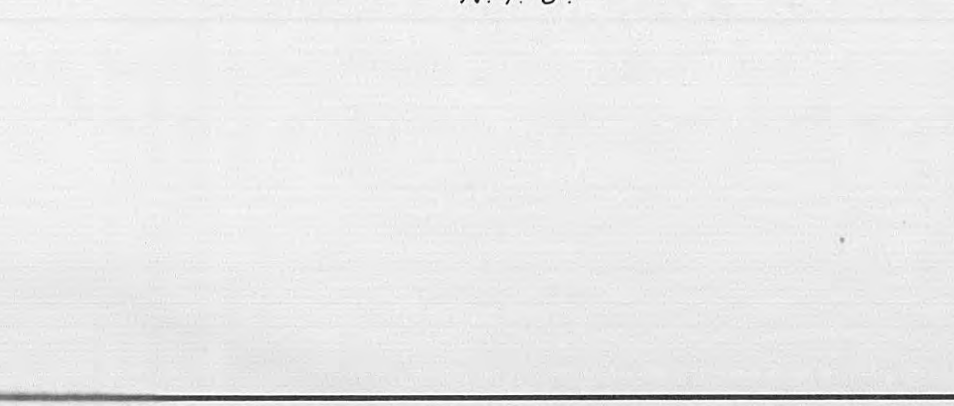
TYPE 1
CLASS "D" BEDDING
CONCRETE ENCASEMENT



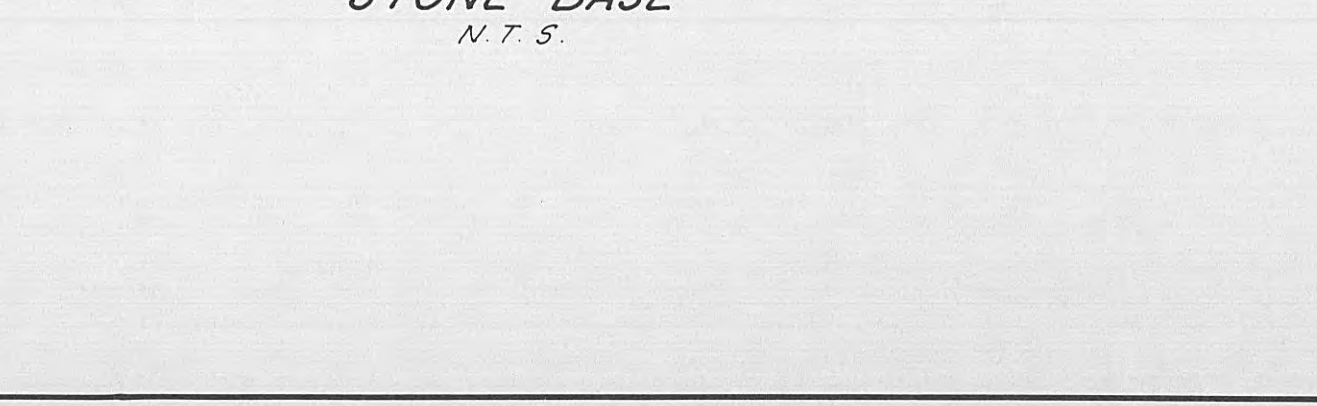
TYPE 1
CLASS "A" BEDDING
USE EITHER TYPE



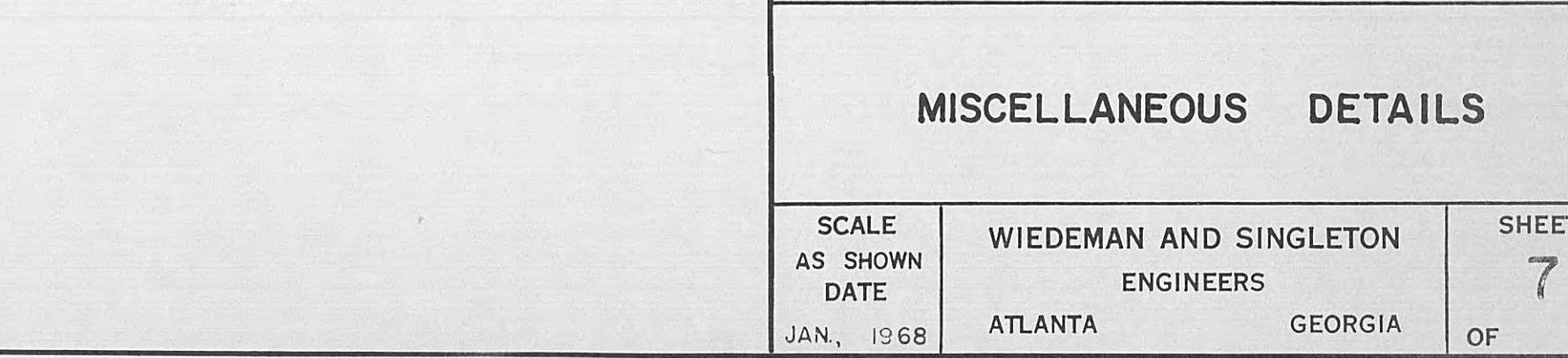
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CLASS "A" BEDDING
USE EITHER TYPE



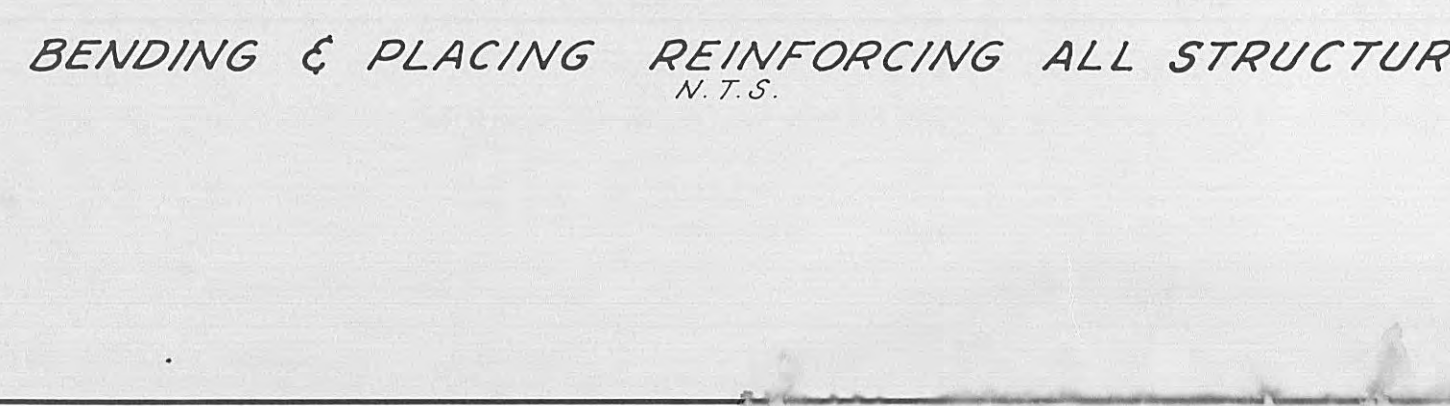
TYPE 1
CLASS "C" BEDDING
USE EITHER TYPE



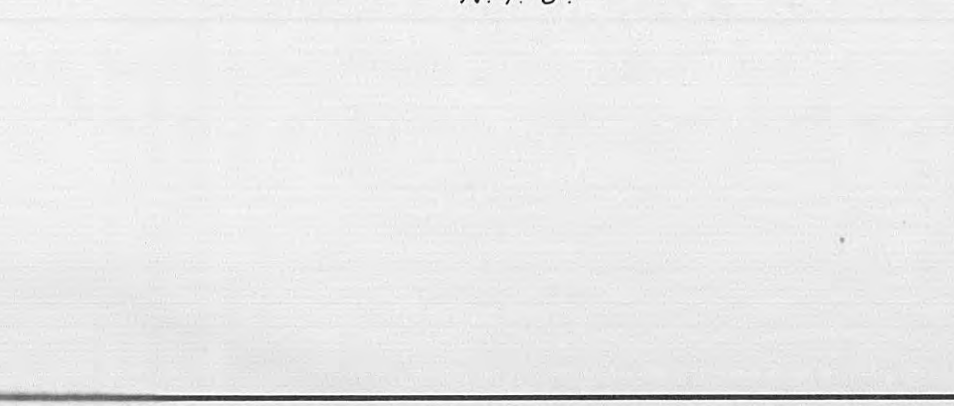
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CONCRETE ENCASEMENT



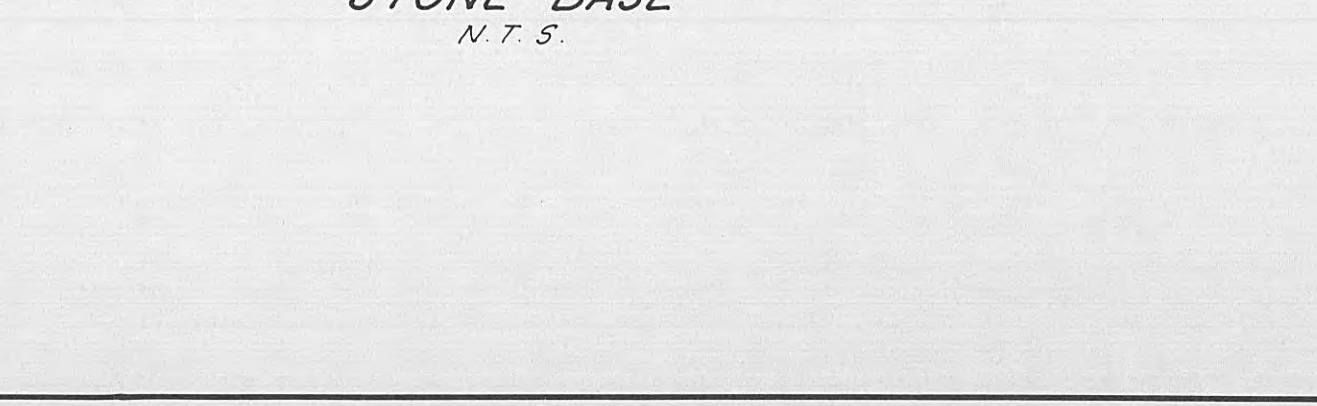
TYPE 1
CLASS "A" BEDDING
USE EITHER TYPE



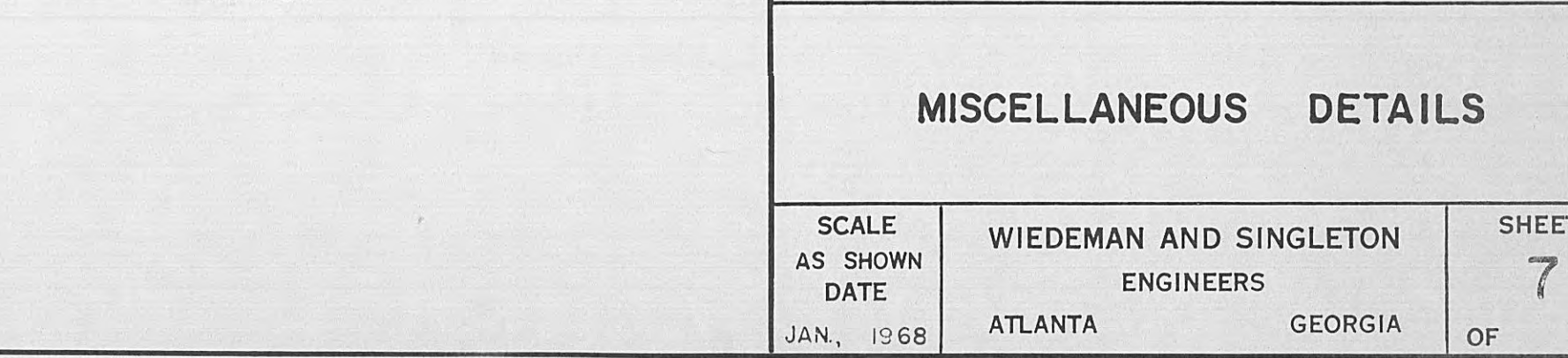
TYPE 1
CLASS "A" BEDDING
USE EITHER TYPE



TYPE 1
CLASS "C" BEDDING
USE EITHER TYPE



TYPE 1
CLASS "D" BEDDING
CONCRETE ENCASEMENT



TYPE 1
CLASS "A" BEDDING
USE EITHER TYPE



TYPE 1
CLASS "A" BEDDING
USE EITHER TYPE



TYPE 1
CLASS "C" BEDDING
USE EITHER TYPE



TYPE 1
CLASS "D" BEDDING
CONCRETE ENCASEMENT



TYPE 1
CLASS "A" BEDDING
USE EITHER TYPE

CONTRACT-A-1968

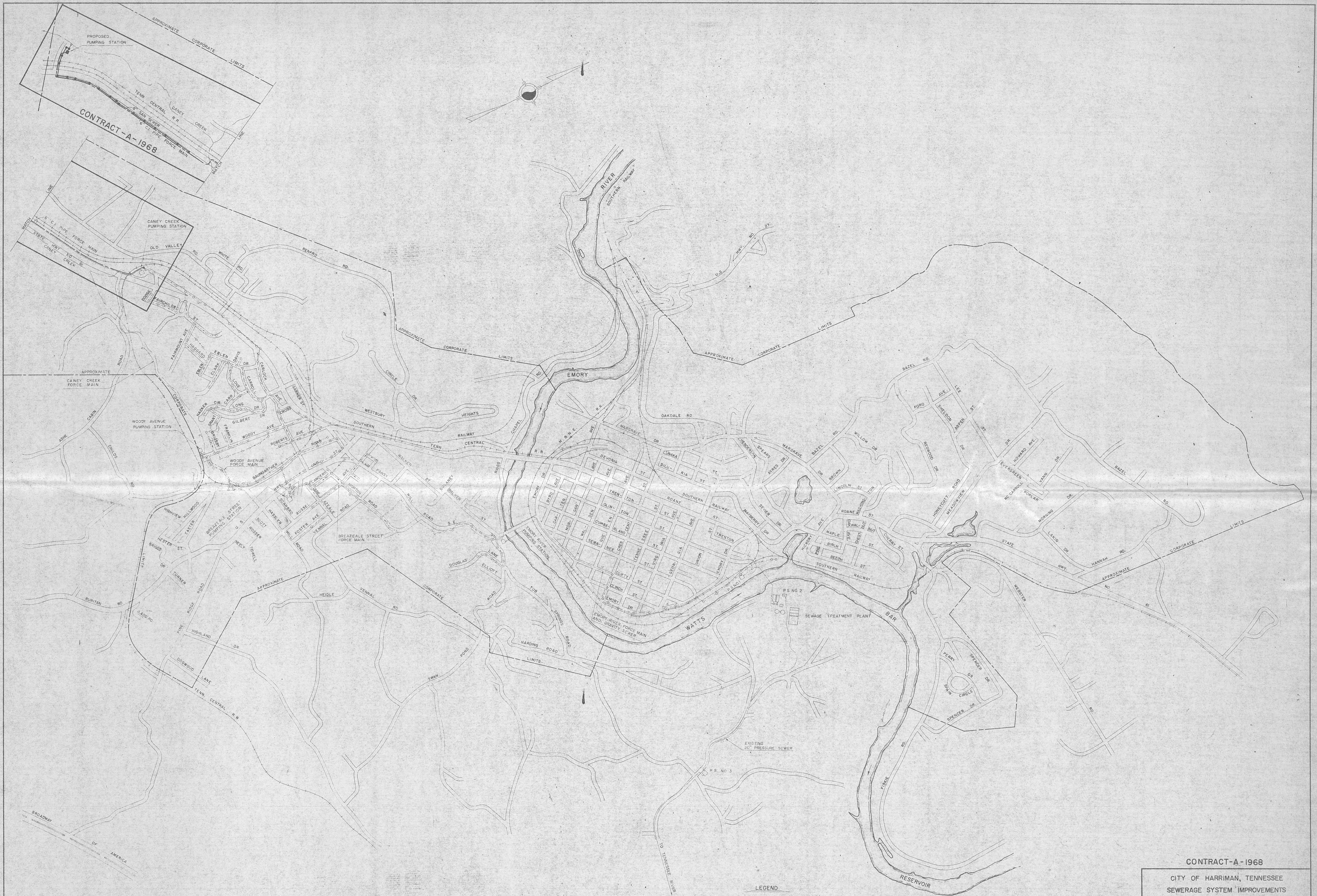
CITY OF HARRIMAN, TENNESSEE
SEWERAGE SYSTEM IMPROVEMENTS

MISCELLANEOUS DETAILS

SCALE
AS SHOWN
DATE
JAN., 1968

WIEDEMAN AND SINGLETON
ENGINEERS
ATLANTA
GEORGIA

SHEET
7
OF
7

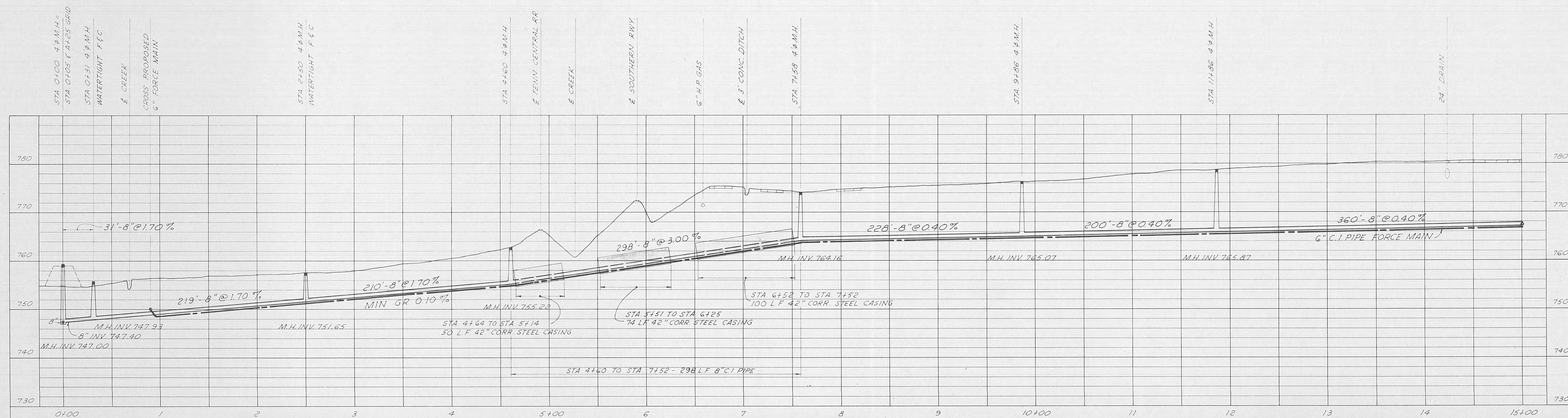


LEGEND

ROADS	---
RAILROADS	—+—+—+—
RIVERS	~~~~~
CREEKS	~~~~~
APPROXIMATE CORPORATE LIMITS	- - - - -
EXISTING SEWERS	—+—+—+—
PROPOSED SEWERS	—+—+—+—

NOTE:
ALL SEWERS 8" UNLESS OTHERWISE SHOWN

CONTRACT-A-1968		
CITY OF HARRIMAN, TENNESSEE SEWERAGE SYSTEM IMPROVEMENTS		
LOCATION MAP		
SCALE 1" = 800' DATE JAN. 1968	WIEDEMAN AND SINGLETON ENGINEERS ATLANTA GEORGIA	SHEPHERD OF



CONTRACT-A-1968

CITY OF HARRIMAN, TENNESSEE
SEWERAGE SYSTEM IMPROVEMENTS

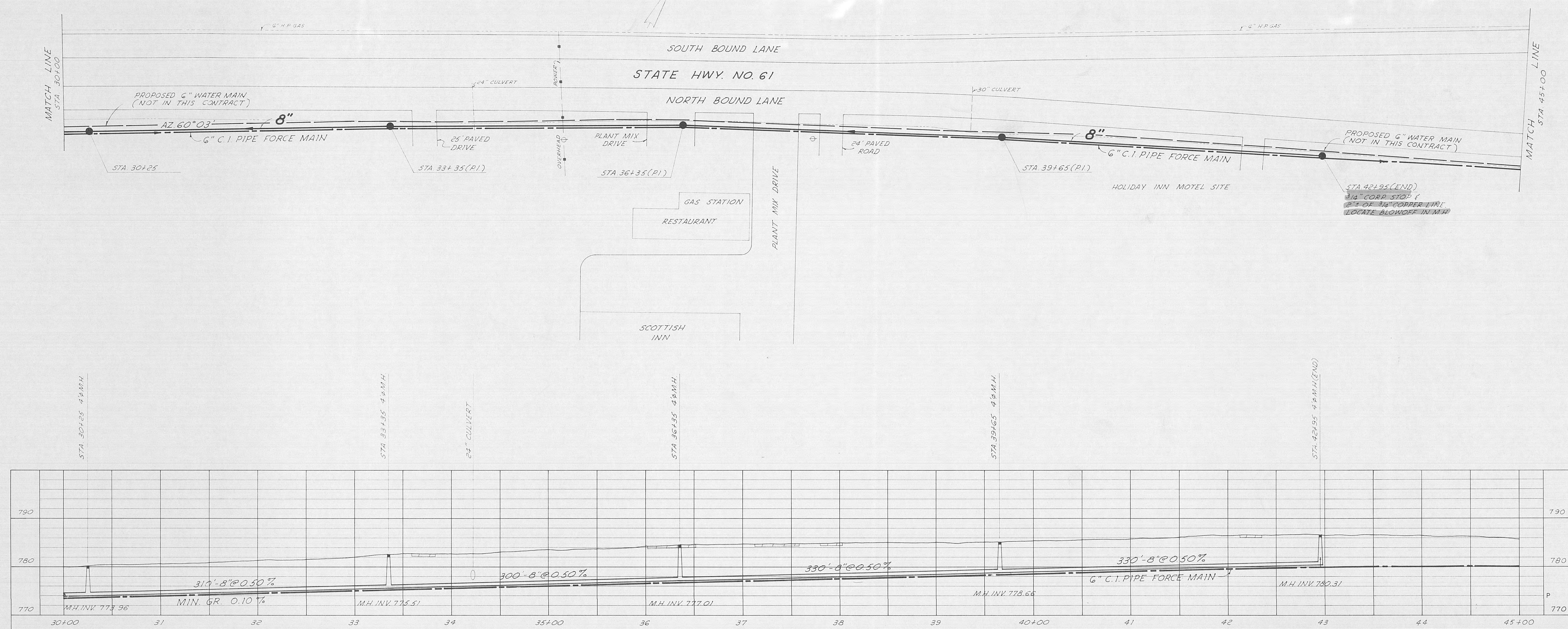
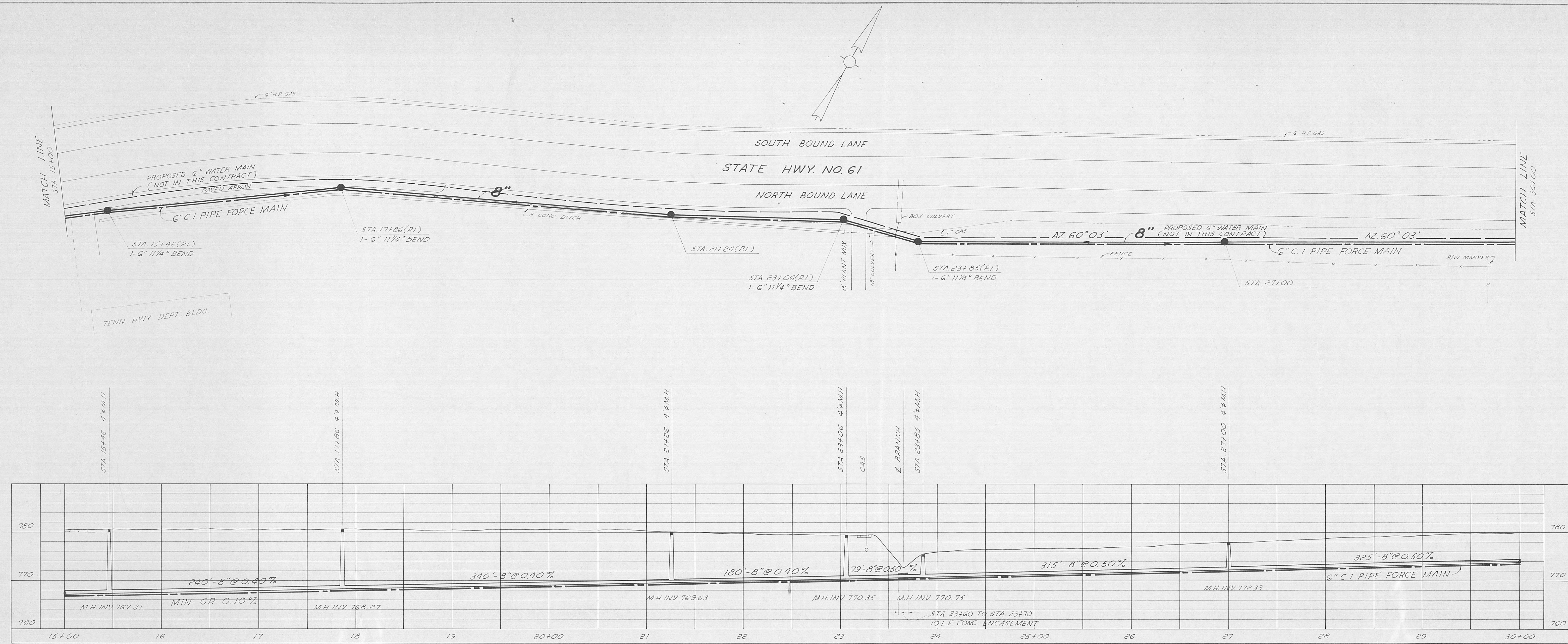
PLAN & PROFILE

8" SANITARY SEWER STA. 0+00 TO STA. 15+00
6" FORCE MAIN (BEGIN) STA. 0+30 TO STA. 15+00

SCALE
1"=50' HORIZ
1"=10' VERT
DATE
JAN., 1968

WIEDEMAN AND SINGLETON
ENGINEERS
ATLANTA GEORGIA

SHEET
2
OF 7



CONTRACT-A-1968

CITY OF HARRIMAN, TENNESSEE

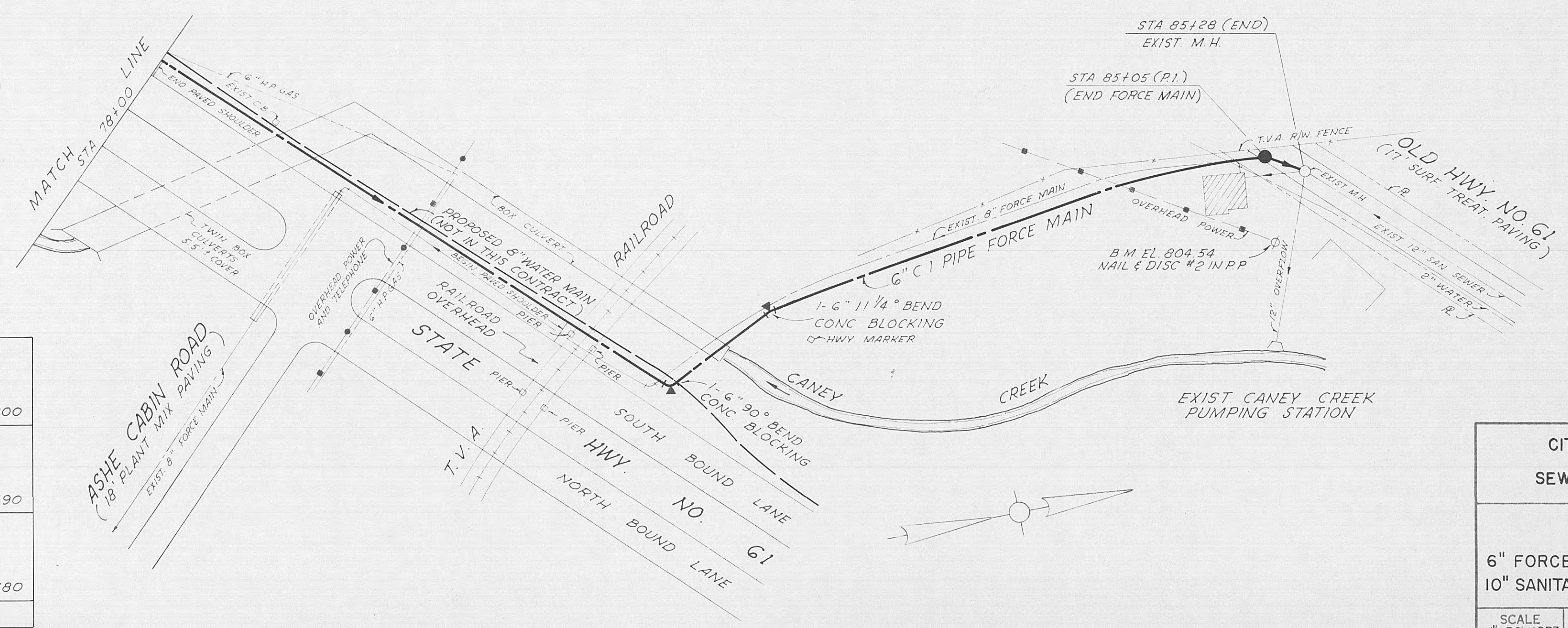
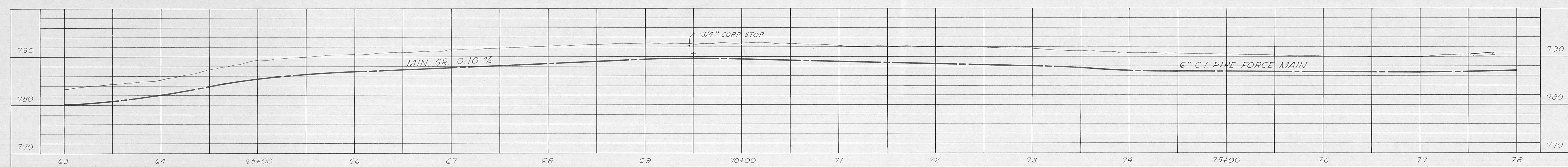
SEWERAGE SYSTEM IMPROVEMENTS

PLAN & PROFILE

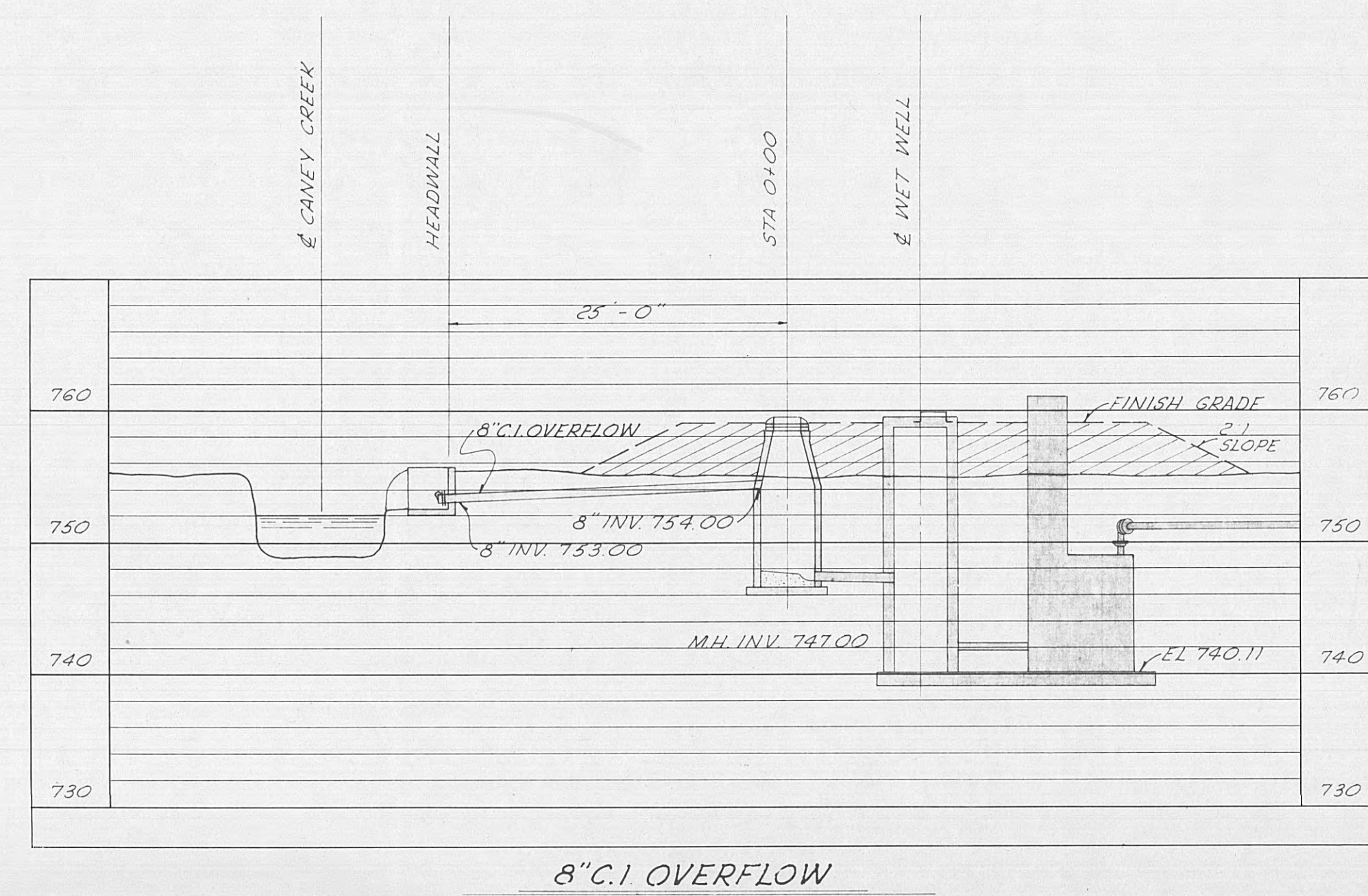
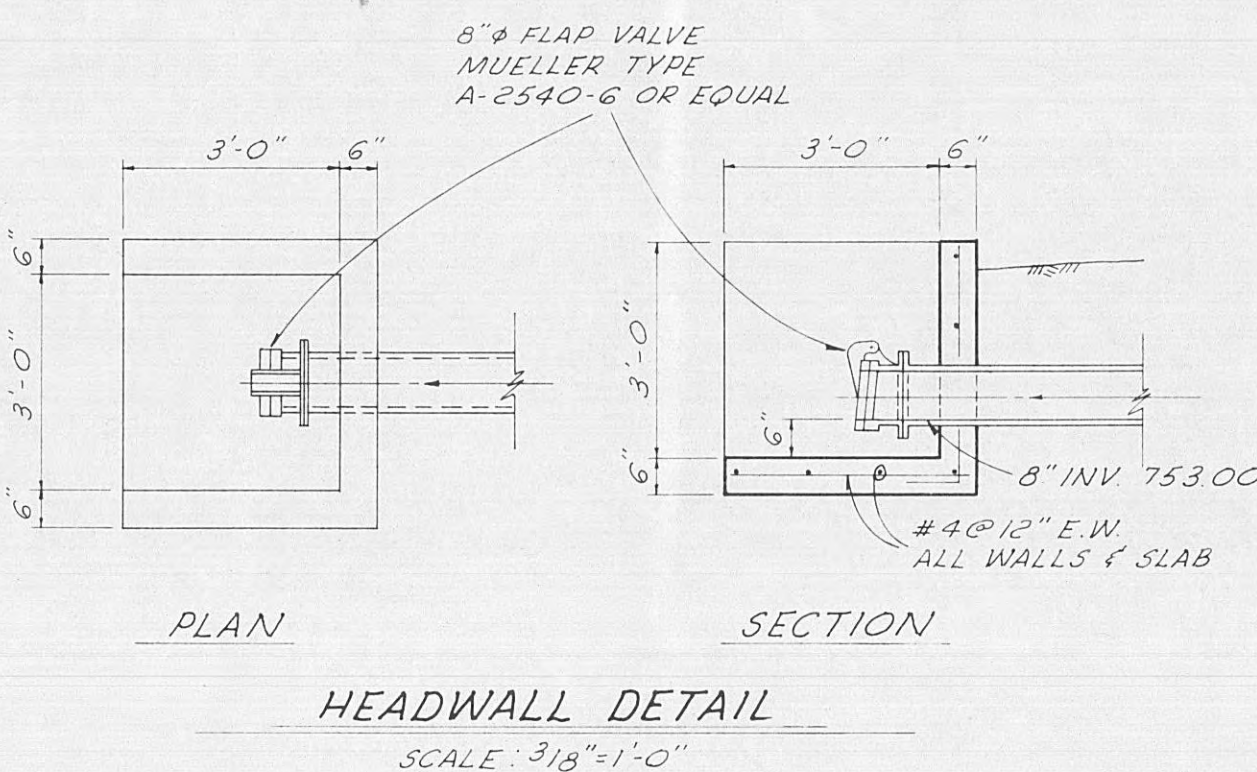
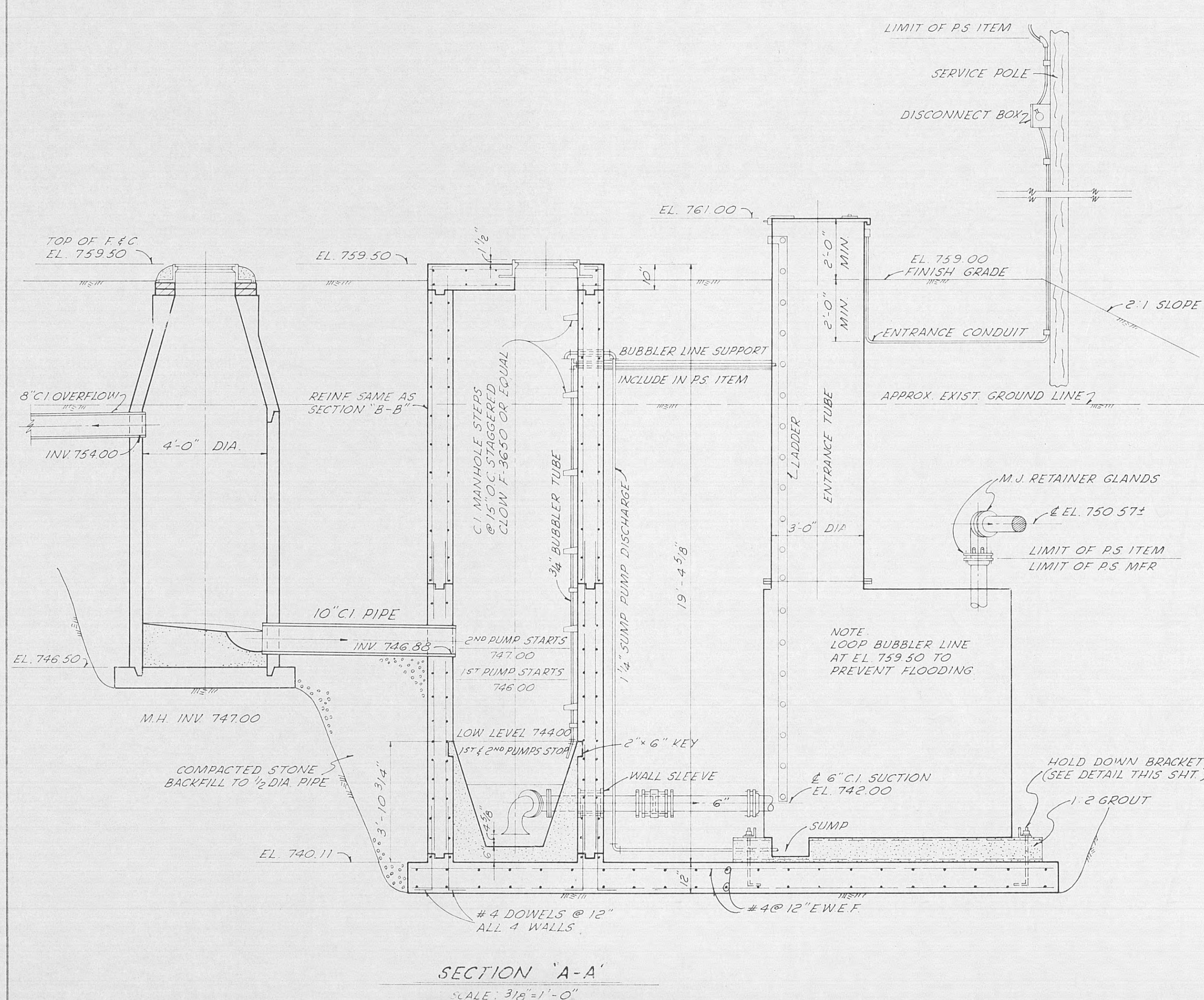
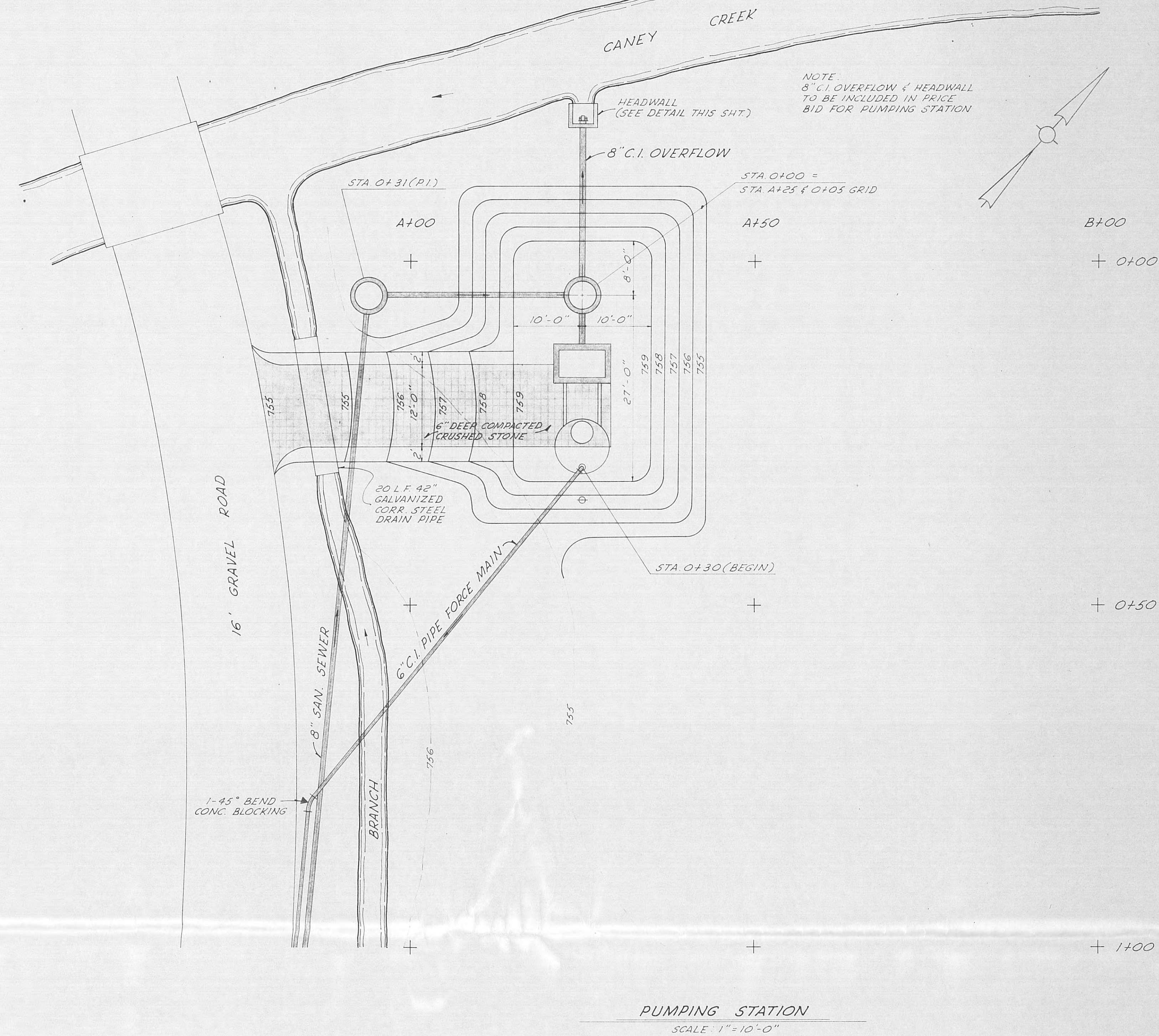
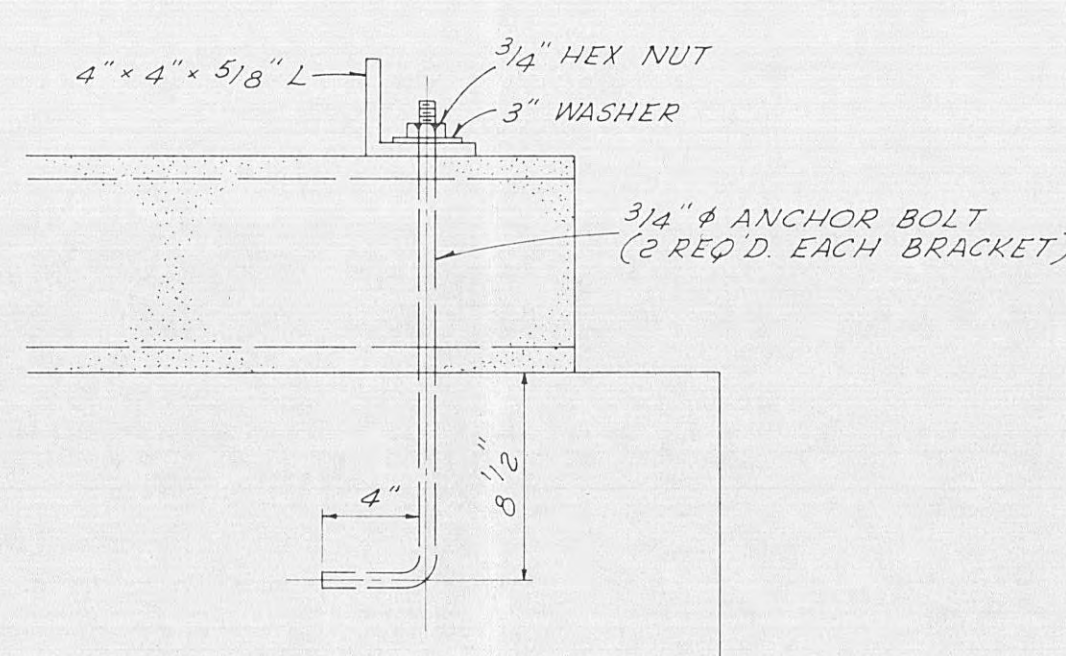
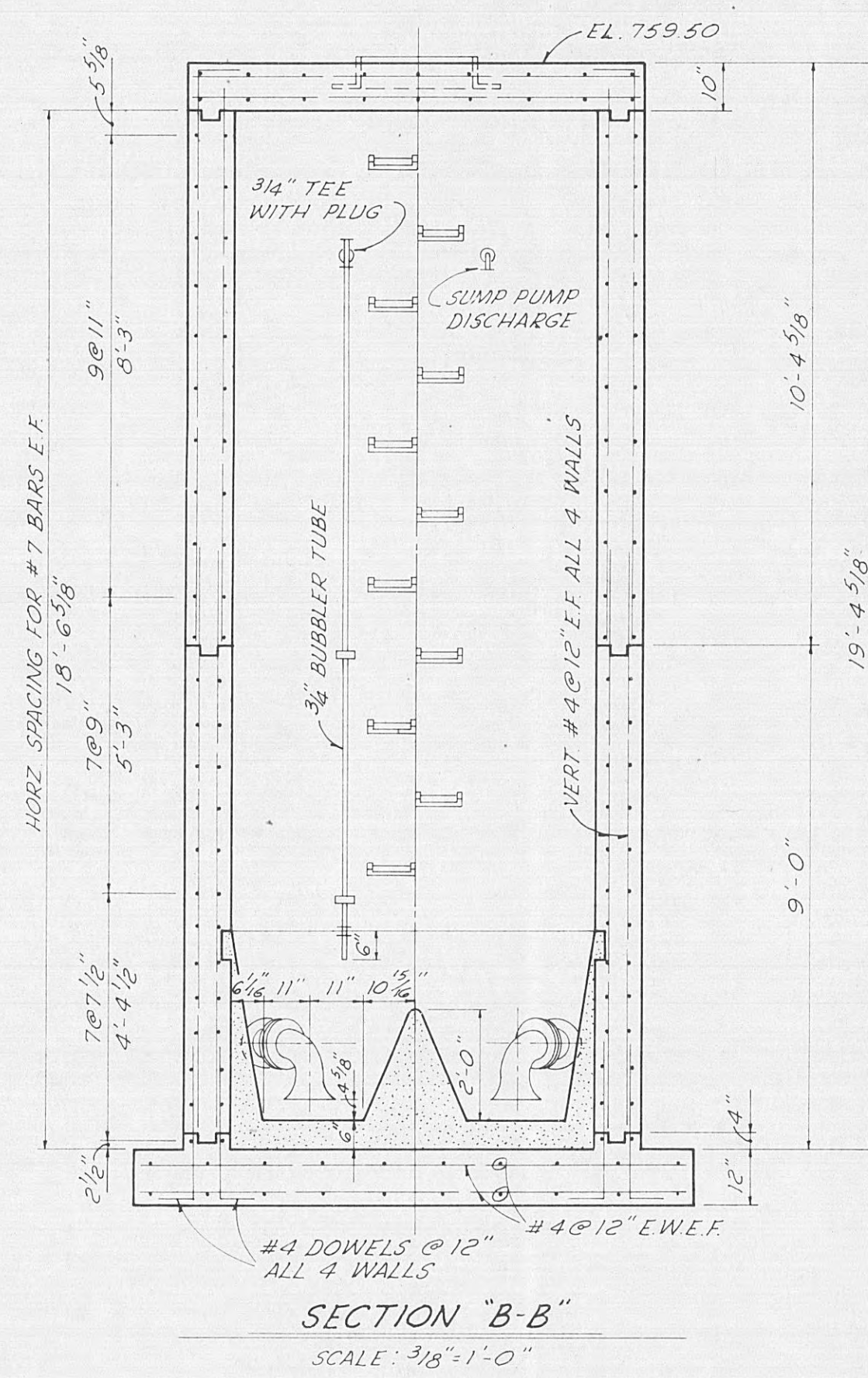
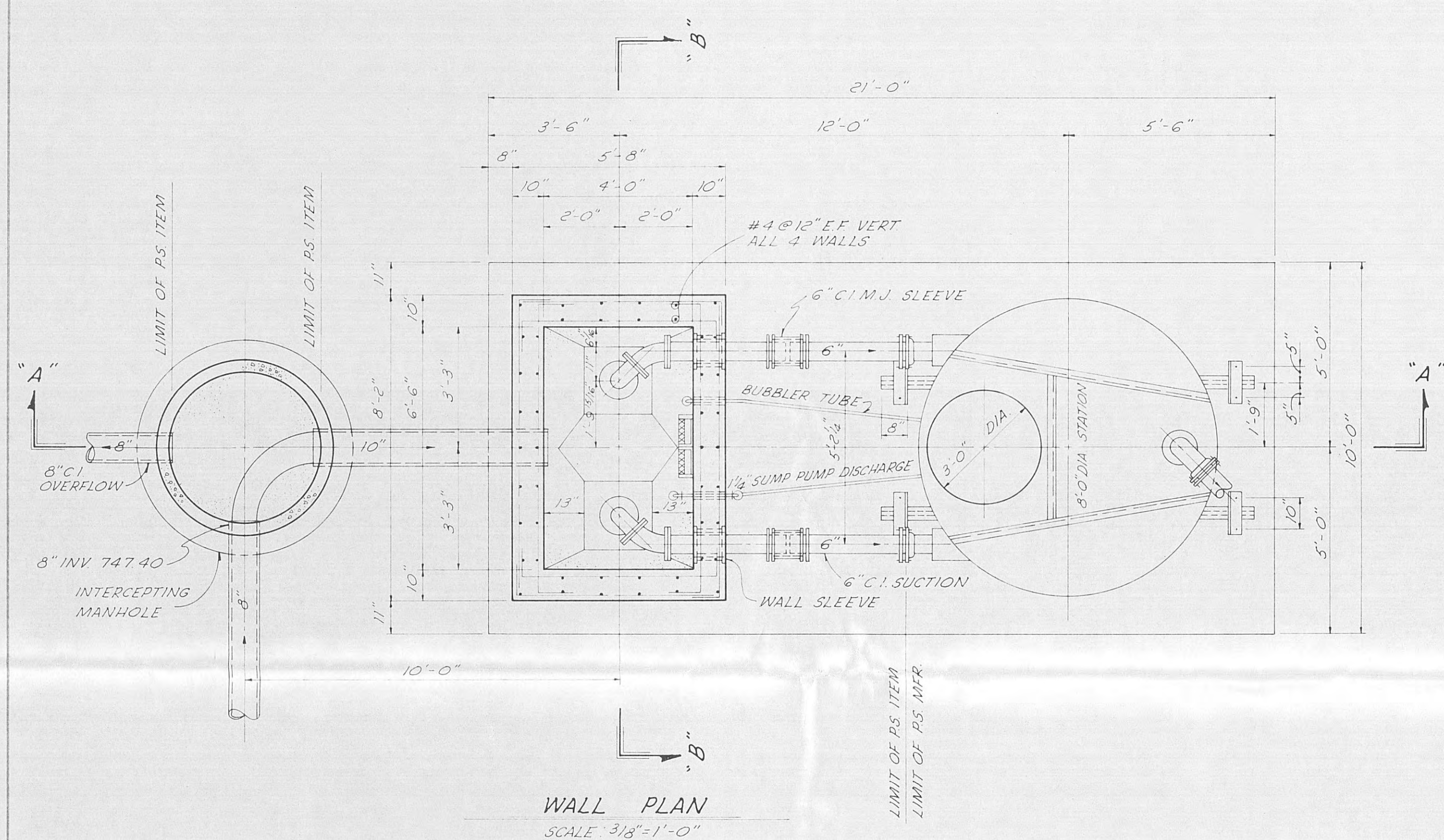
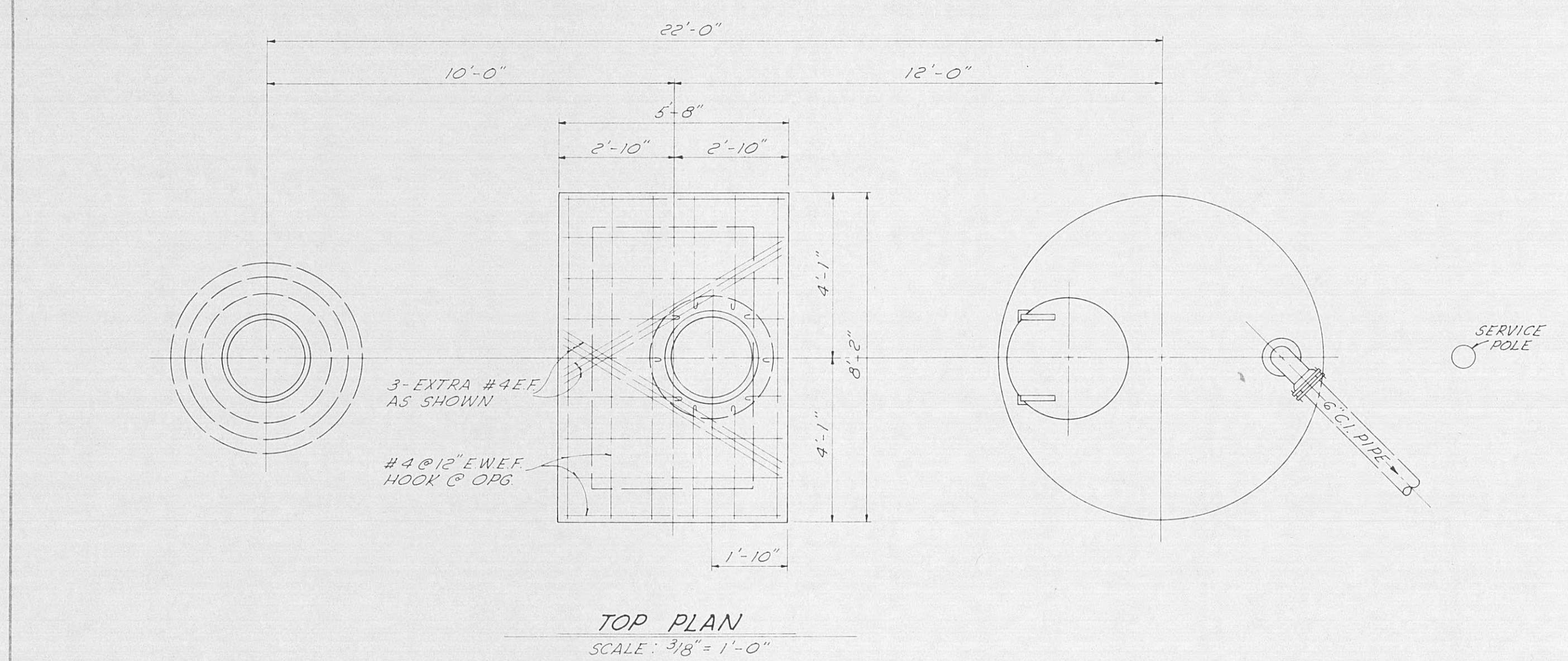
8" SANITARY SEWER STA. 15+00 TO STA. 42+95 (END)

6" FORCE MAIN STA. 15+00 TO STA. 45+00

SCALE 1"=50' HORZ. 1"=10' VERT. DATE JAN. 1968	WIEDEMAN AND SINGLETON ENGINEERS ATLANTA GEORGIA	SHEET 3 OF 7
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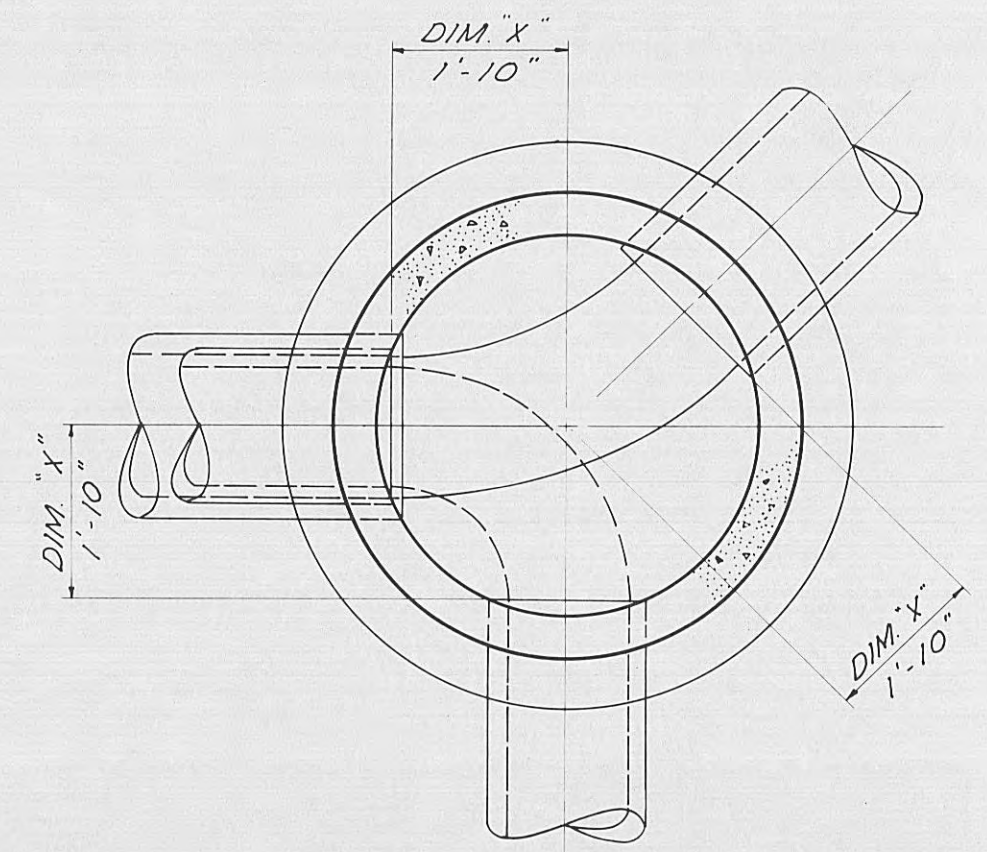


4	
OF	7

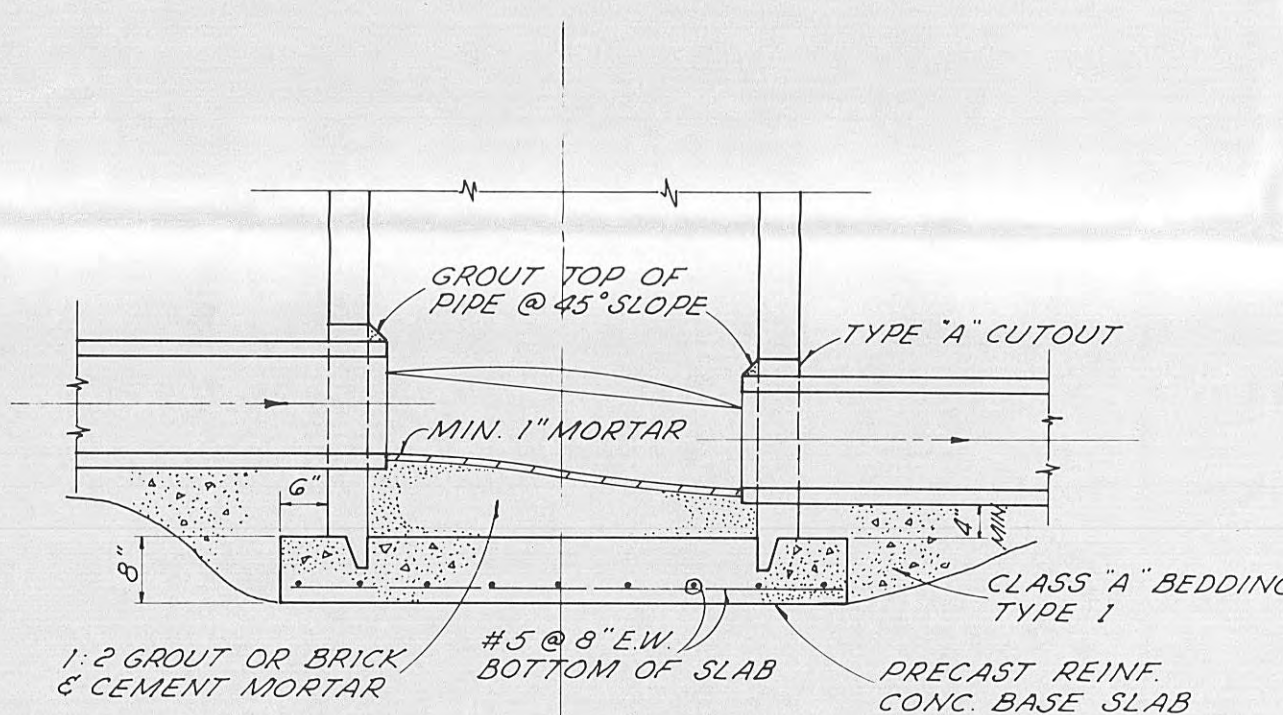


CONTRACT-A-1968		
CITY OF HARRIMAN, TENNESSEE		
SEWERAGE SYSTEM IMPROVEMENTS		
PUMPING STATION AND DETAILS		
SCALE AS SHOWN DATE JAN. 1968	WIEDEMAN AND SINGLETON ENGINEERS ATLANTA GEORGIA	SHEET 5 OF 7

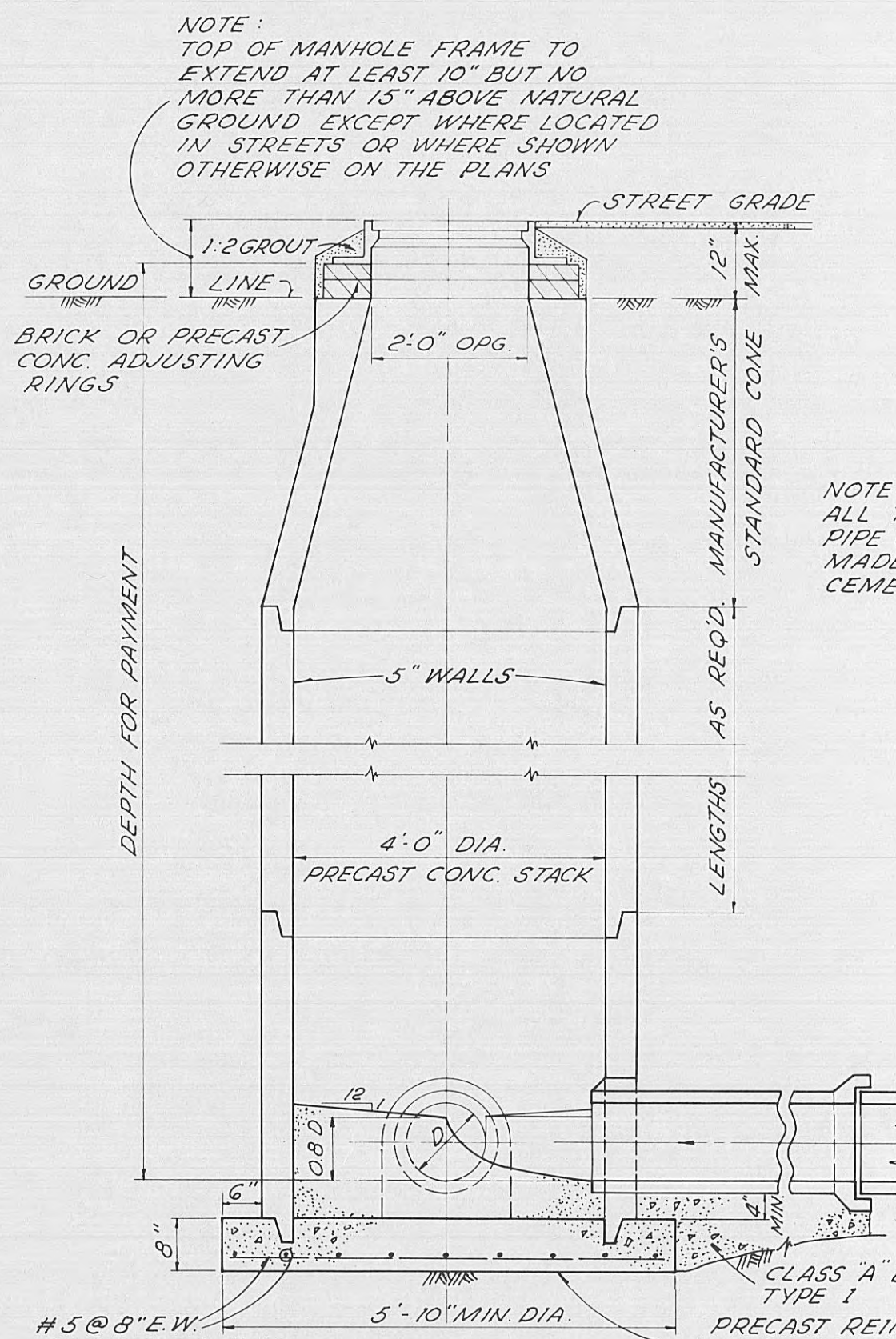
GOVERNING DIMENSIONS FOR CIRCULAR MANHOLES			
PIPE SIZE	DEFLECTION	M.H. DIA.	"X"
8" & 15"	0°-90°	4'-0"	1'-10"
18"	0°-60°	4'-0"	1'-8"
18"	60°-90°	5'-0"	2'-3"
21" & 24"	0°-60°	5'-0"	2'-2"
30"	0°-45°	5'-0"	1'-11"
21" & 24"	60°-90°	6'-0"	2'-8"
30"	45°-60°	6'-0"	2'-6"
36"	0°-45°	6'-0"	2'-4"



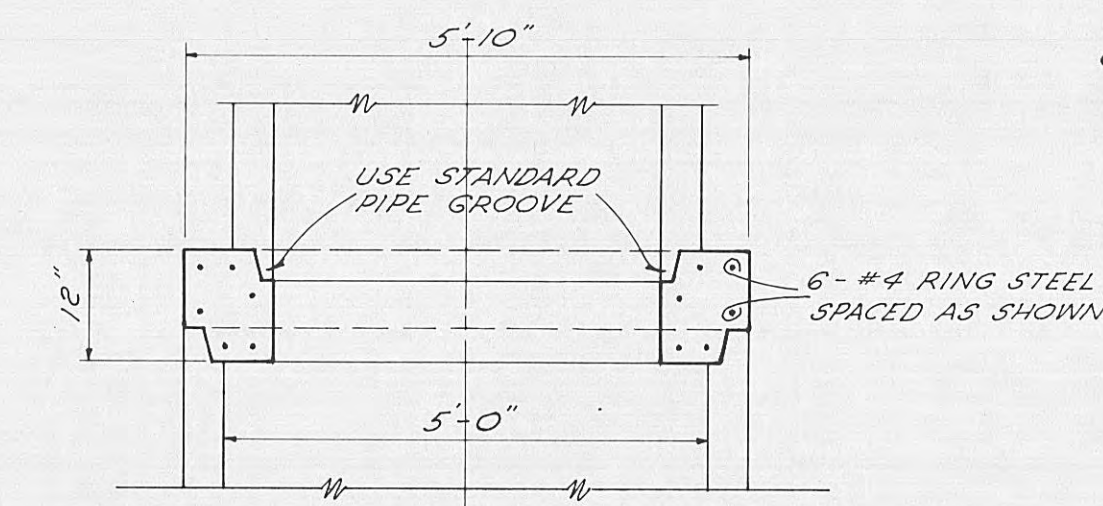
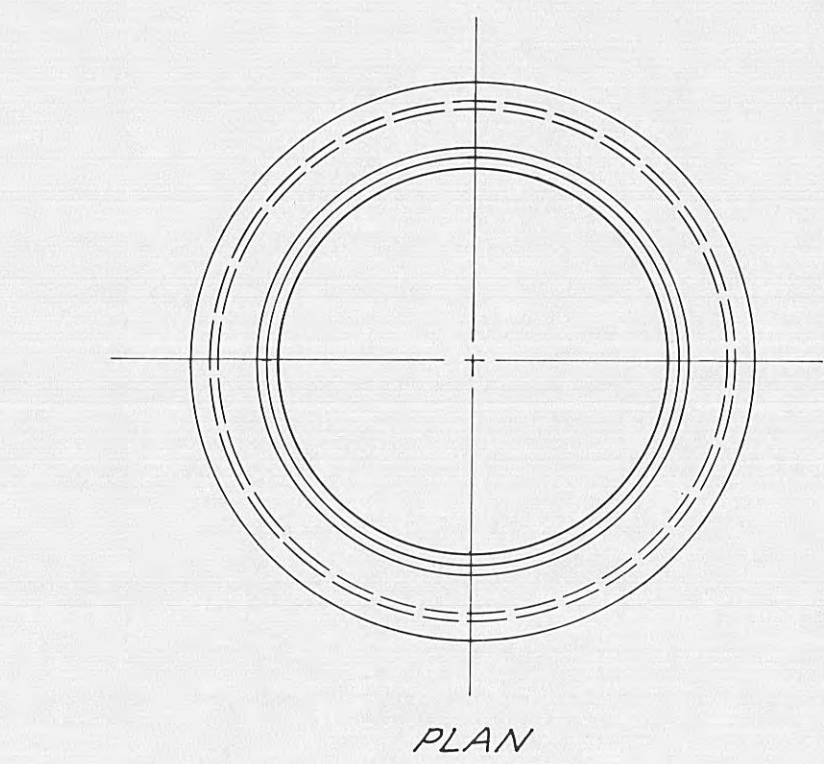
TYPICAL INVERT PLAN
(ALL SIZES)
SCALE: 1/2"=1'-0"



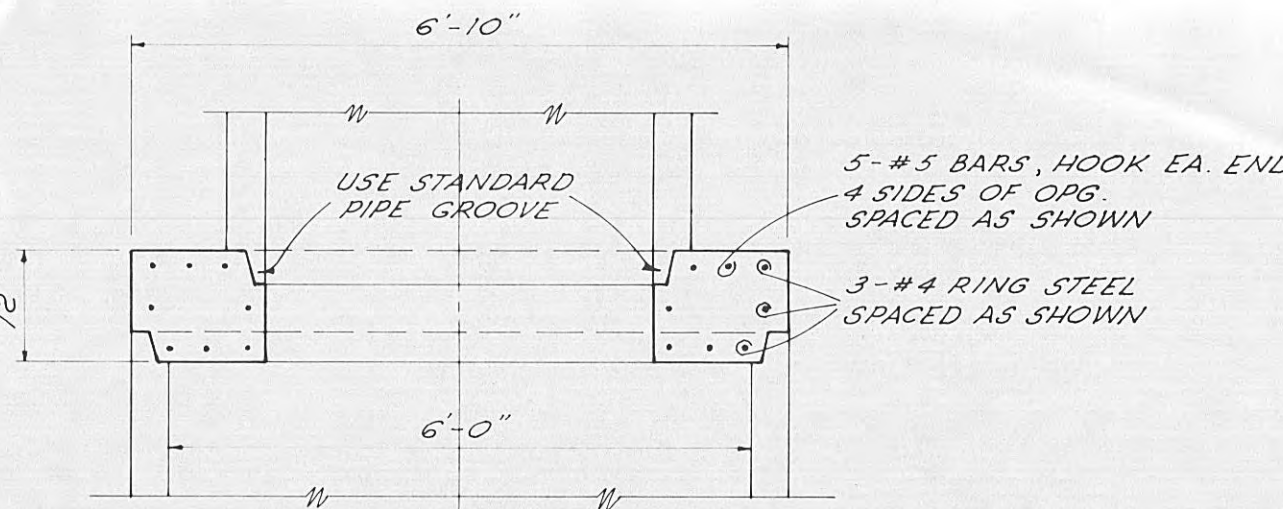
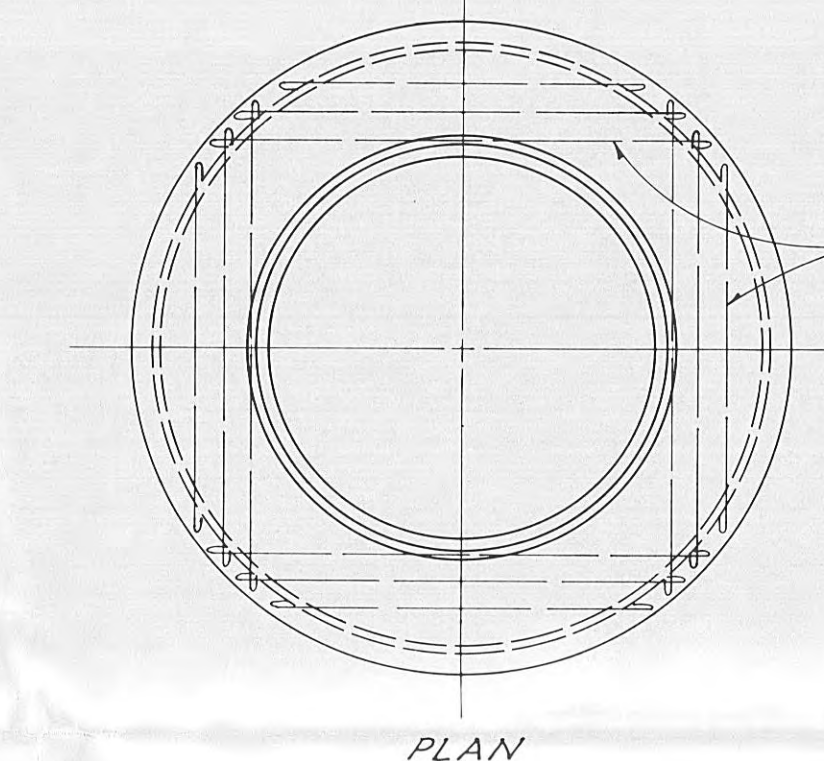
TYPICAL INVERT SECTION
(ALL SIZES)
SCALE: 1/2"=1'-0"



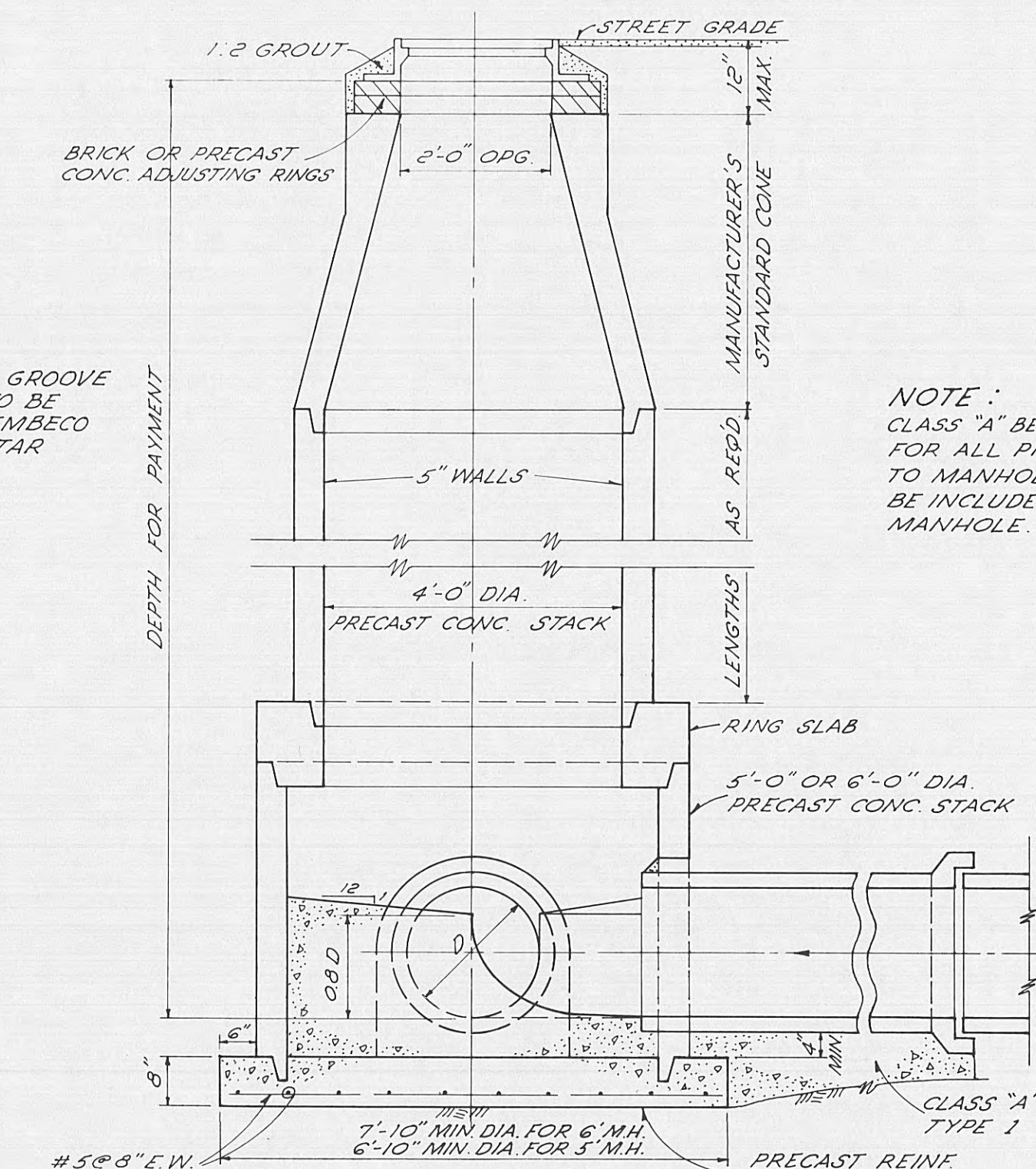
4' DIA. MANHOLE
PRECAST CONC.
SCALE: 1/2"=1'-0"



5'-0" RING SLAB
SCALE: 1/2"=1'-0"



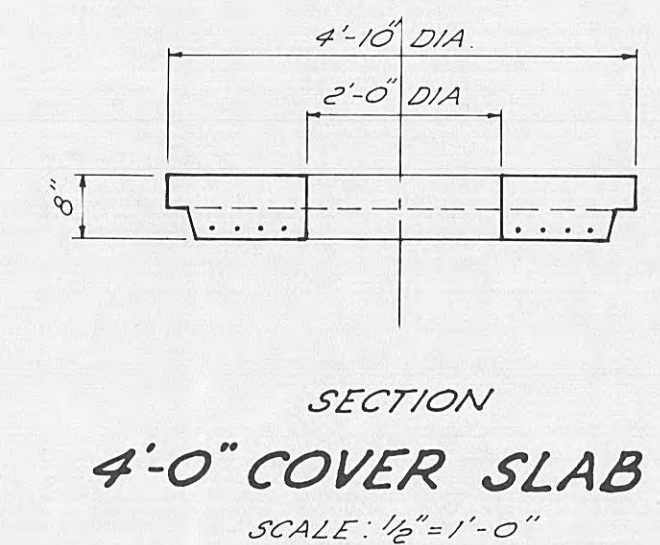
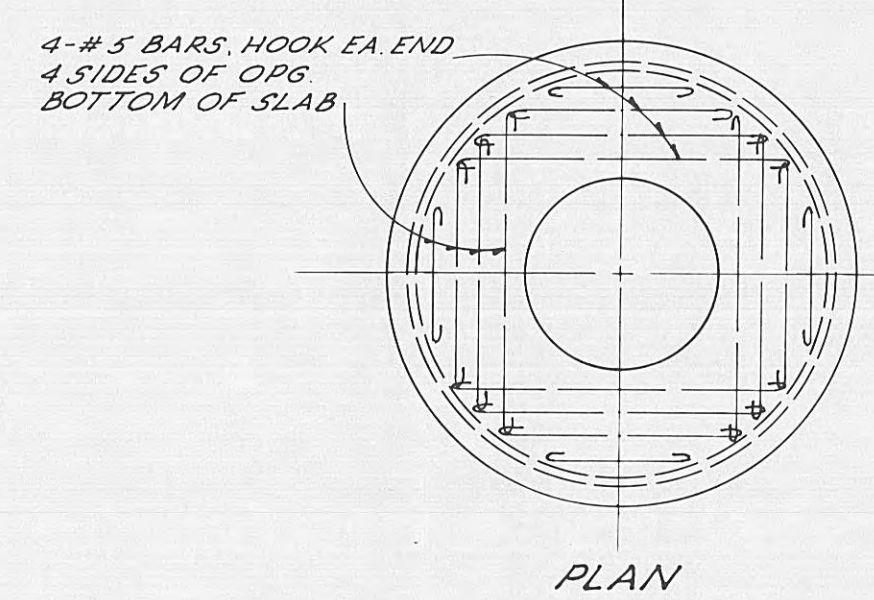
6'-0" RING SLAB
SCALE: 1/2"=1'-0"



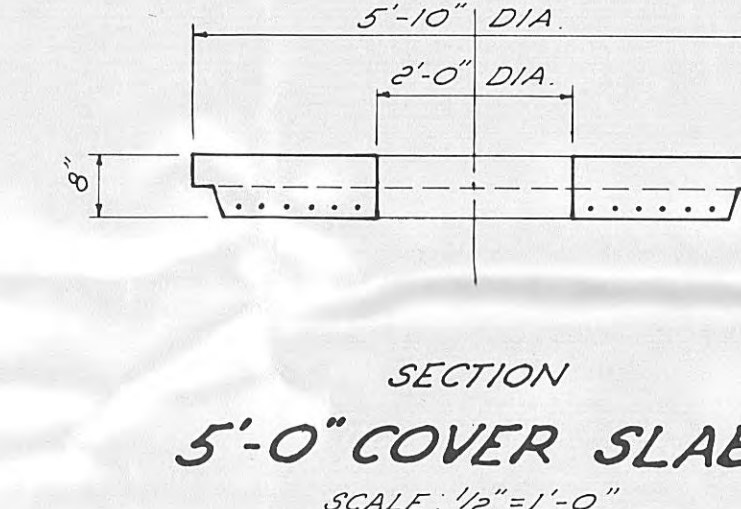
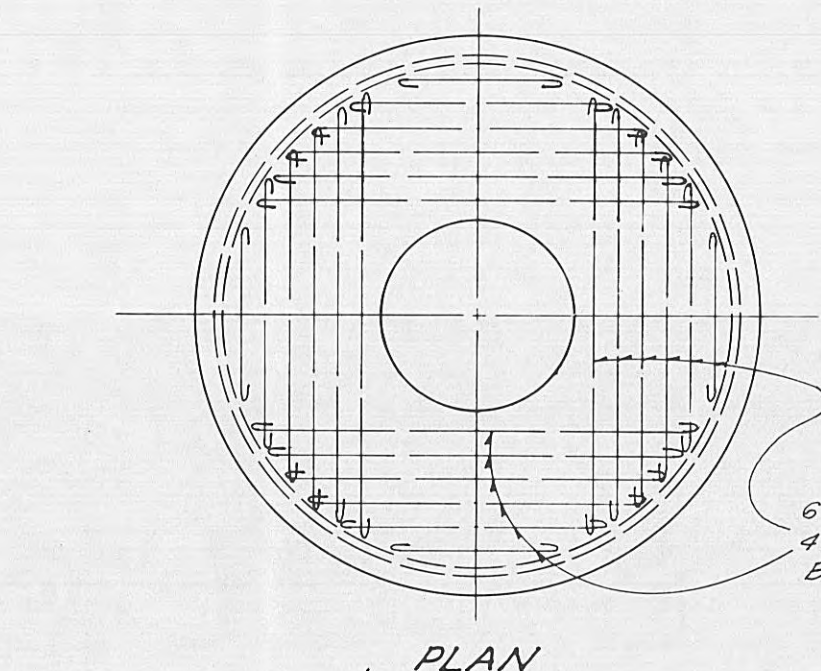
5' OR 6' DIA. MANHOLE
PRECAST CONC.
SCALE: 1/2"=1'-0"

NOTE:
IF M.H. STEPS ARE USED
THEY SHALL BE INSTALLED
8" DIA. STAGGERED
CLOW F-3850 OR EQUAL

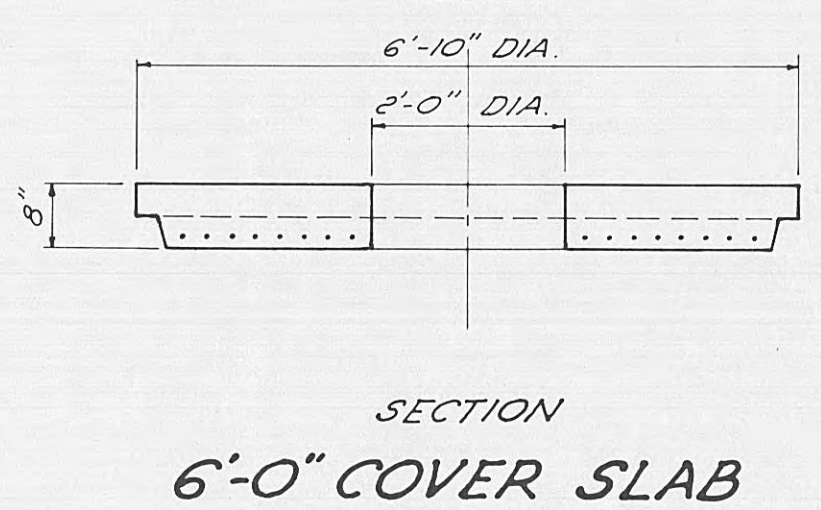
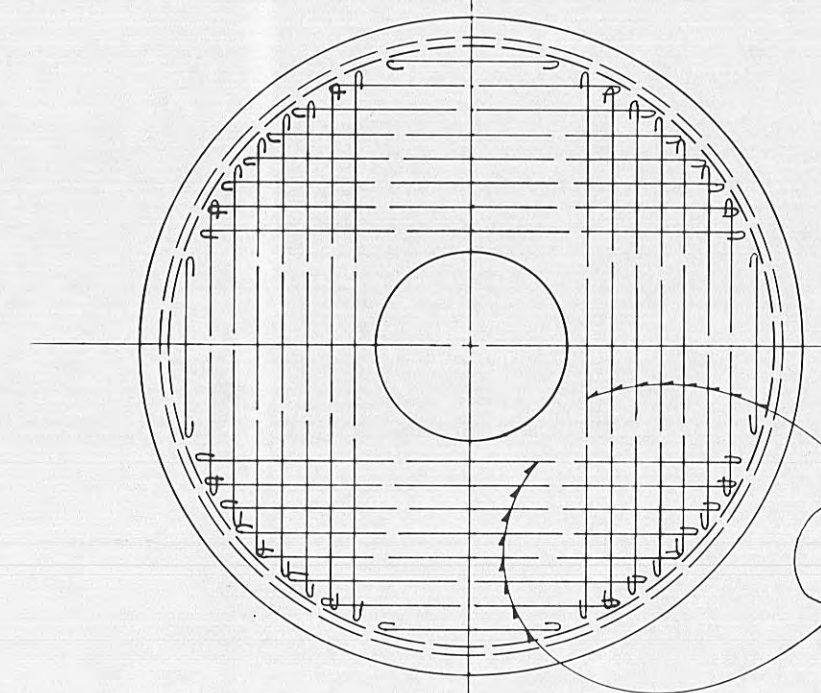
C.I. MANHOLE
STEP DETAIL
N.T.S.



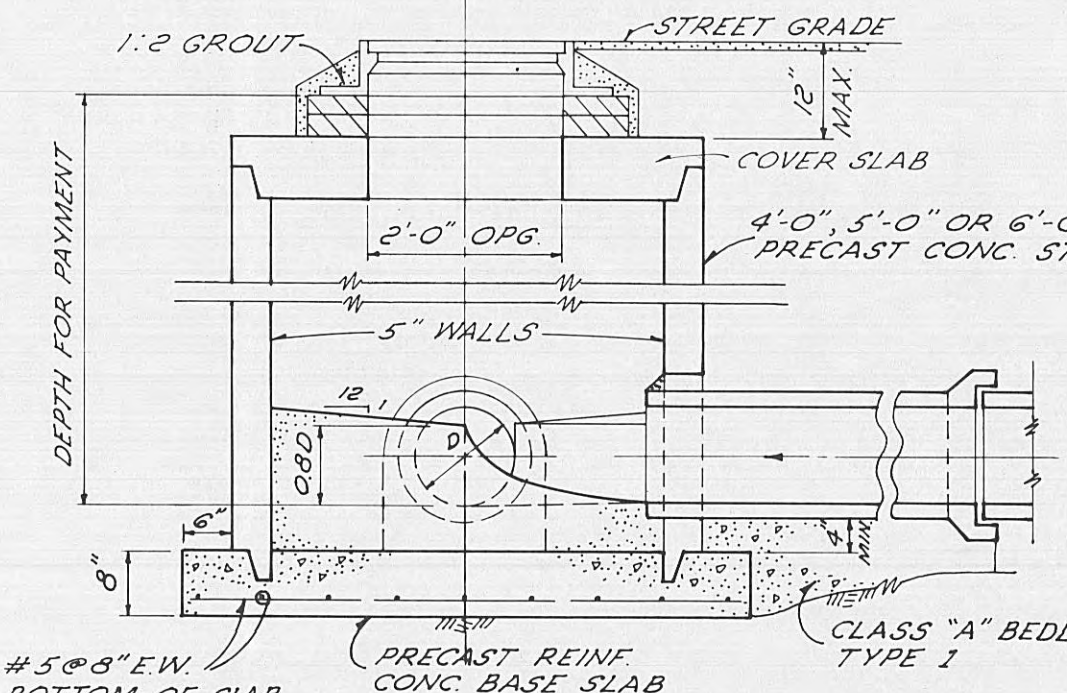
4'-0" COVER SLAB
SCALE: 1/2"=1'-0"



5'-0" COVER SLAB
SCALE: 1/2"=1'-0"

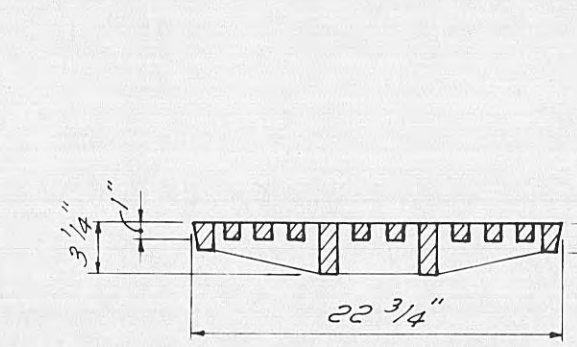
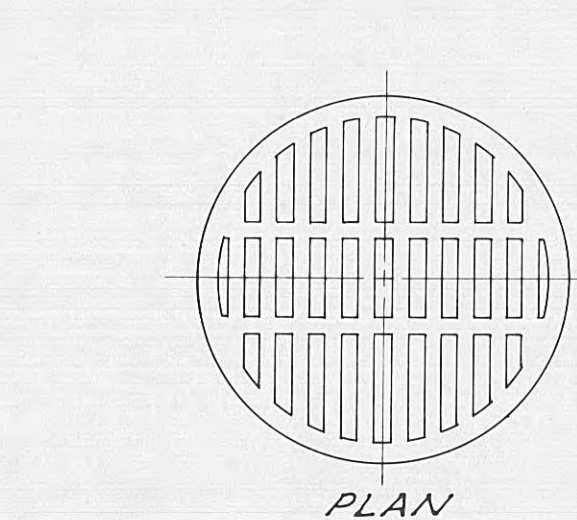


6'-0" COVER SLAB
SCALE: 1/2"=1'-0"

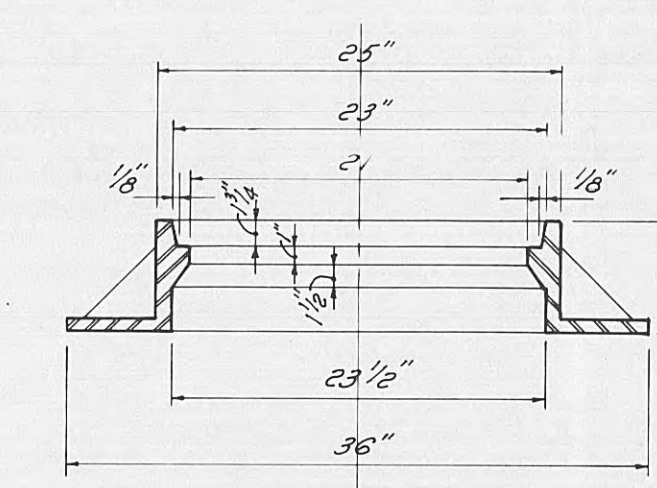
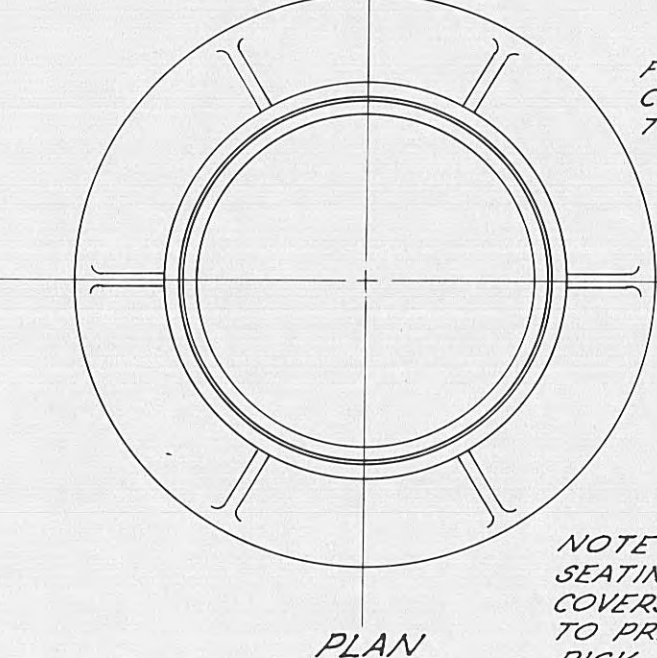


TYPICAL SHALLOW MANHOLE
PRECAST CONC.
SCALE: 1/2"=1'-0"

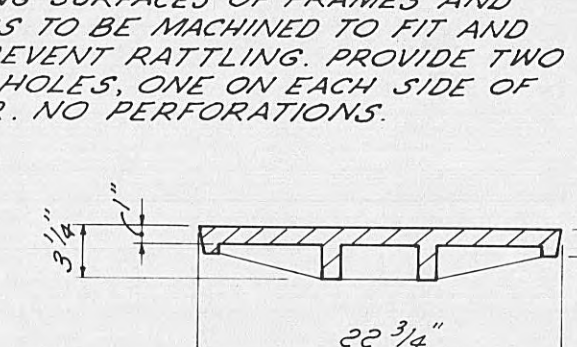
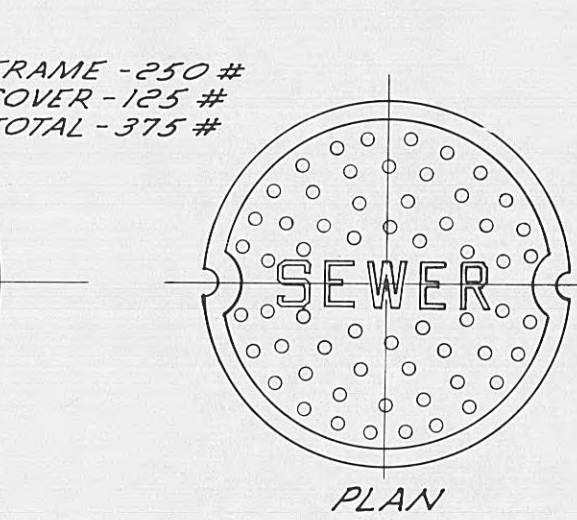
WATERPROOFING - 1 COAT
OF INERTOL STANDARD
THICK AT THE RATE OF
1 GALLON PER 125 SQ. FT.
WATERPROOF WALLS FROM
18" BELOW FINISH GRADE
DOWN TO AND OVER
FOOTINGS



TYPICAL TYPE "A"
VENTED COVER
SCALE: 1"=1'-0"

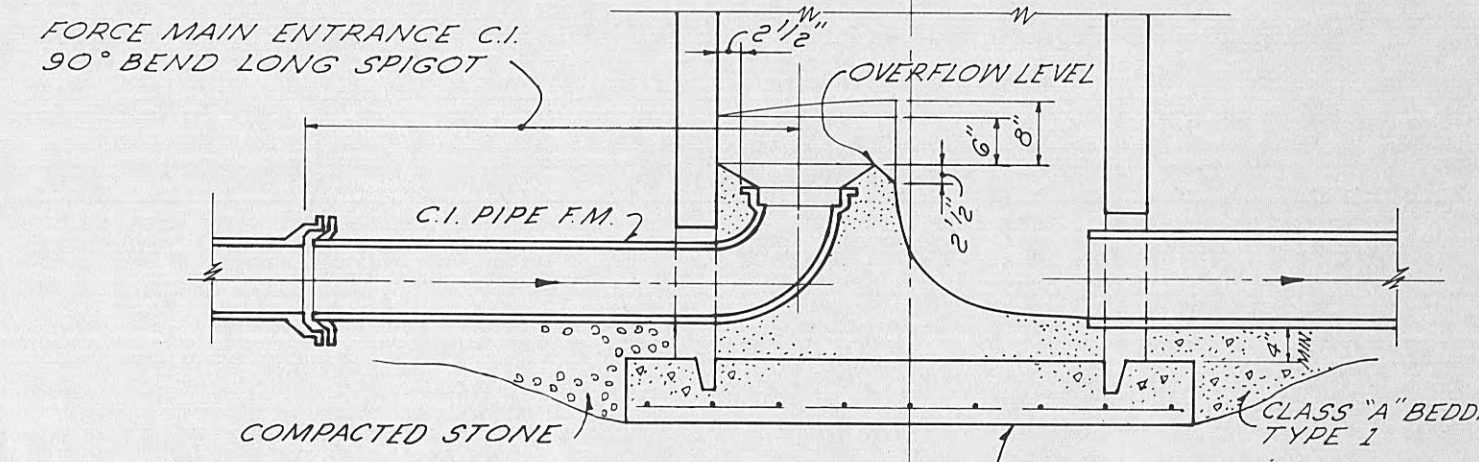


TYPICAL TYPE "A" C.I. MANHOLE
FRAME & COVER
SCALE: 1"=1'-0"

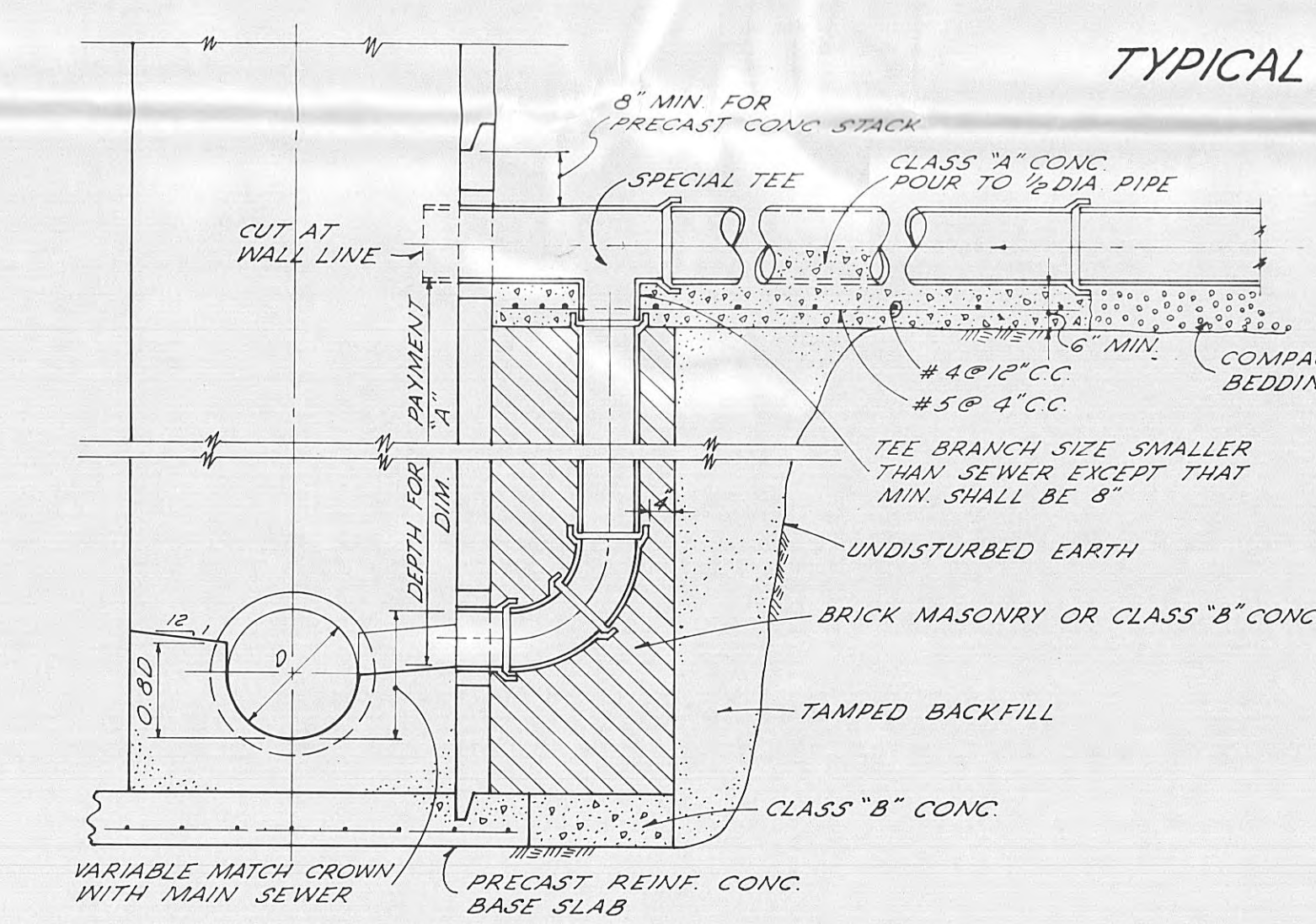


TYPICAL TYPE "B" (WATERTIGHT)
C.I. MANHOLE FRAME & COVER
SCALE: 1"=1'-0"

SCHEDULE FOR DROP CONNECTIONS DIM. A		
SEWER SIZE	DROP SIZE	MINIMUM INV. TO INV.
6"	6"	24"
8"	8"	24"
10"	8"	24"
12"	10"	35"
15"	12"	37"
18"	15"	39"
21"	18"	41"
24"	21"	43"

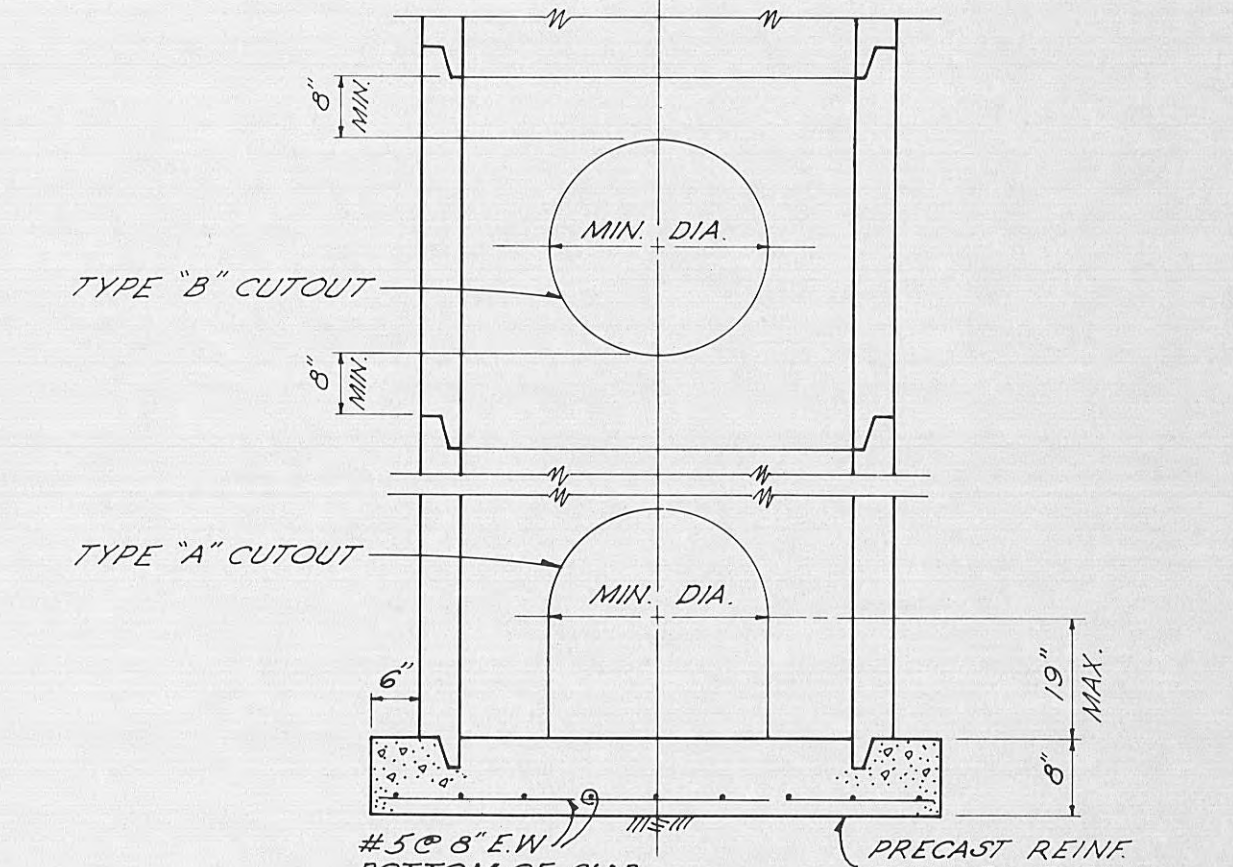


TYPICAL FORCE MAIN CONV. TO M.H.
SCALE: 1/2"=1'-0"

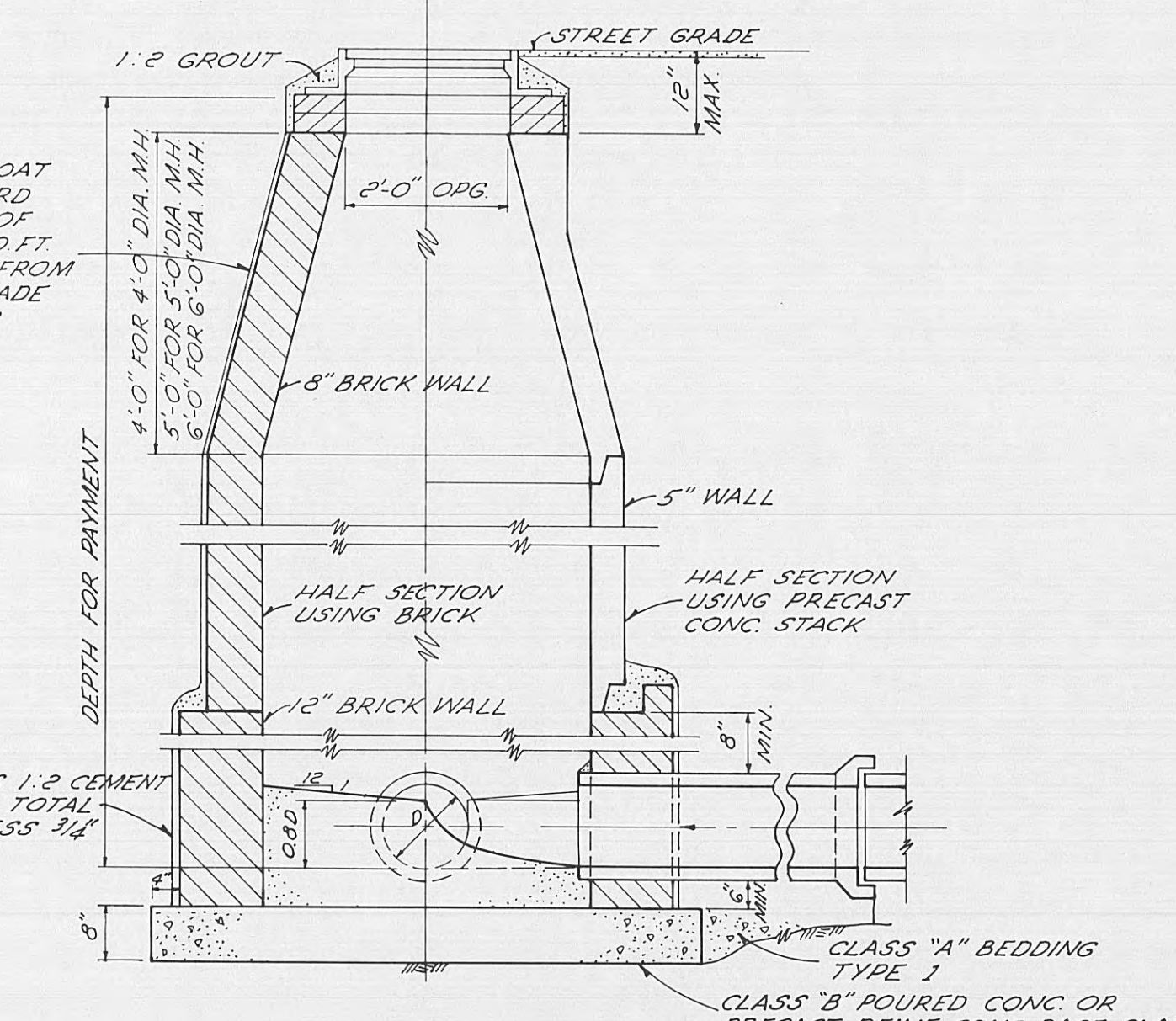


TYPICAL SECTION
MANHOLE DROP CONNECTION
SCALE: 1/2"=1'-0"

CUTOUT SCHEDULE	
PIPE SIZE	MINIMUM DIA.
8"	14"
10"	16"
12"	20"
15"	24"
18"	27"
21"	30"
24"	34"



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



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

CONTRACT-A-1968

CITY OF HARRIMAN, TENNESSEE
SEWERAGE SYSTEM IMPROVEMENTS

MANHOLE DETAILS

SCALE AS SHOWN DATE	WIEDEMAN AND SINGLETON ENGINEERS ATLANTA	SHEET 6 OF 7
JAN., 1968	GEORGIA	