PLAN AND PROFILE FOR

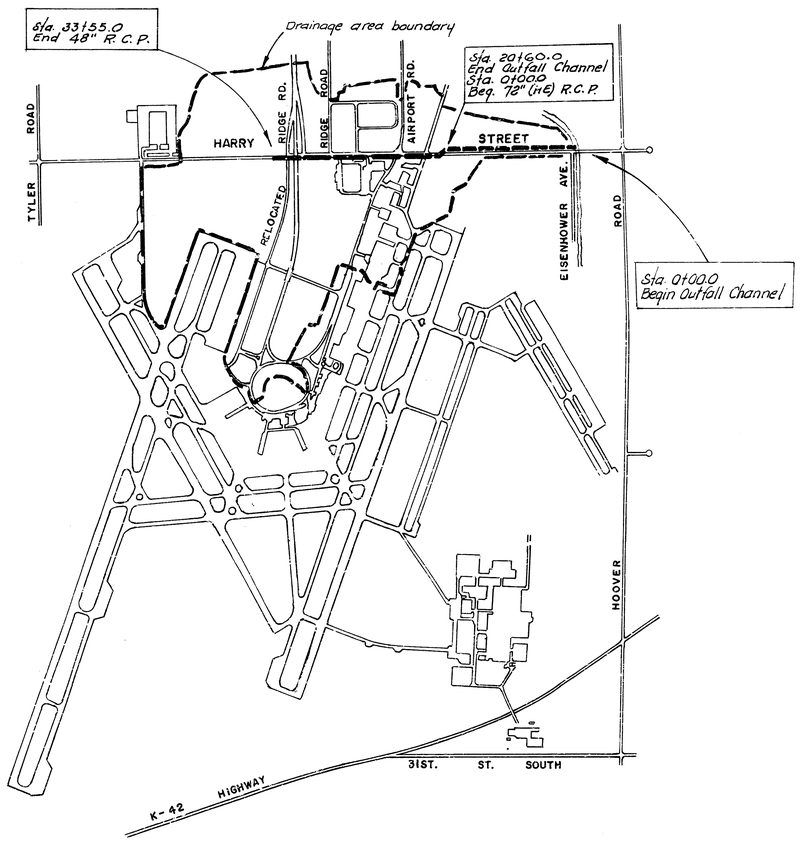
STORM WATER DRAIN NO. 25

CITY OF WICHITA, KANSAS

R. W. LINN — CITY ENGINEER

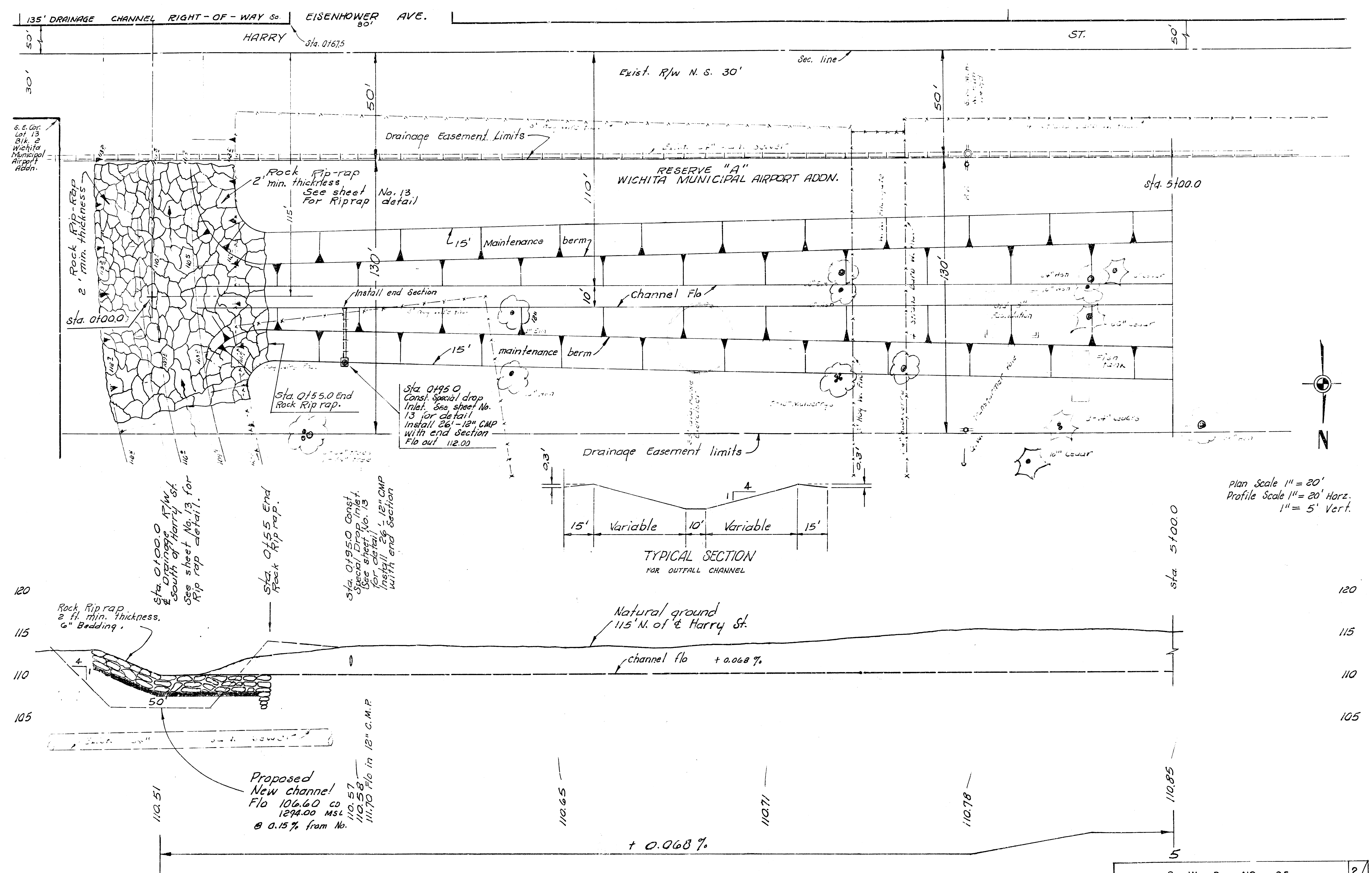
FEB. 1976, PROJECT NO. DBKD575085

INDEX

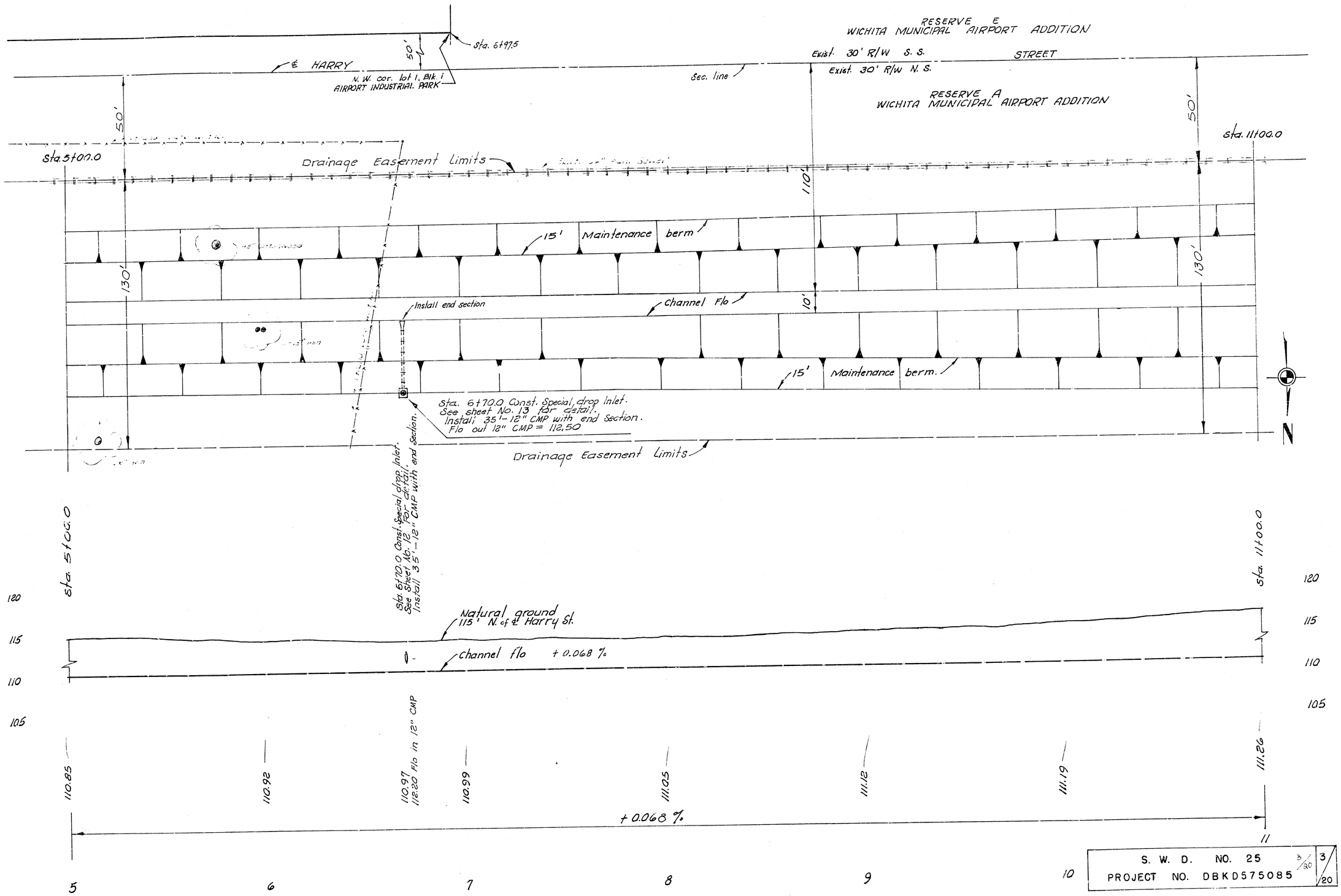


N

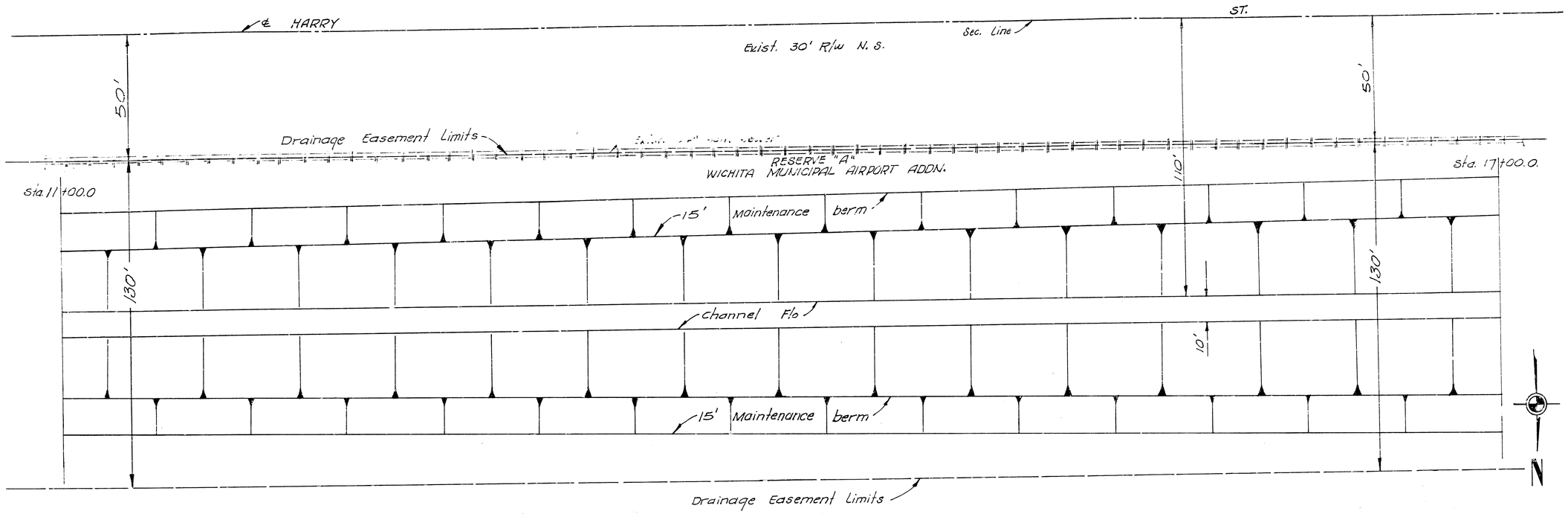
SCALE 1"=1100'

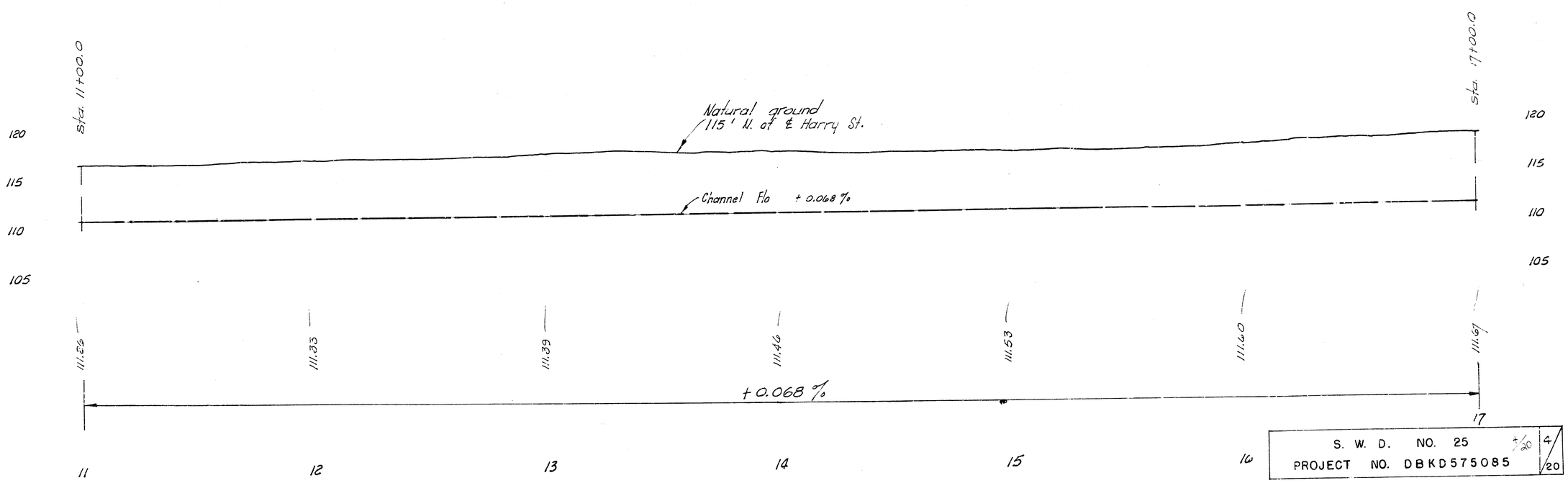


S. W. D. NO. 25	2/20
PROJECT NO. DBKD575085	



S. W. D. NO. 25	3/30 3/20
PROJECT NO. DBKD575085	





S. W. D. NO. 25	4/20
PROJECT NO. DBKD575085	

B. M. 11904 City Std. Disc. 59' E. & 43' S. of 1/4 Sec. cor. 1/2 mile West of Hoover & Harry.

39° 50'

B. M. 114.74 N.E. cor. wk. front of Bldg. Airparts Co. Inc. 5801 W. Harry

℄ HARRY STREET

Sec. Line

Iron

S.W. cor. S.E. 1/4 Sec. 27, T27S. R.1, W.

30'

50'

Iron

Drainage Easement Limits

20'

Iron

C.35 %

R/w 50' ℄

397.4' ±

Sta. 20+32.0 End outfall Channel Beg. Outfall Structure See sheet No. 13 for outfall Structure detail.

Sta. 20+60.0 End Outfall Structure Sta. 0+00.0 Beg. 72" (HE) R.C.P.

510'

Exist. 6" gas main

Iron

S.E. cor. lot 1. Block E Rolling Hills Mesa.

15' Maintenance berm

60'

130'

Sta 17+00.0

Channel Flo

10'

Sta. 19+80 Beg. Rock Riprap.

Drainage Easement Limits.

130' Drainage Easement

15' Maintenance berm

RESERVE WICHITA AIRPORT

"B" MUNICIPAL ADDITION

Drainage Easement Limits

0.3'

4

0.3'

15' Variable 10' Variable 15'

TYPICAL SECTION

FOR OUTFALL CHANNEL

Sta. 17+000

Sta. 19+80 Begin Rock Riprap. See sheet No. 13 for Rip-rap detail.

Sta. 20+32.0 End Outfall Channel Beg. Outfall Structure See sheet No. 13 for Outfall Structure detail

Sta. 20+60.0 End Outfall Structure Sta. 0+00.0 Beg. 72" (HE) R.C.P.

125 120 115 110 105

Natural ground 100' N. of ℄ Harry St.

El. 120.70

72" (HE) R.C.P.

+0.068 %

Channel flo

+0.068 %

111.67 111.73 111.80 111.97 111.89 Flo

112.20 Flo out 72" (HE) R.C.P.

17 18 19 20

S. W. D. NO. 25	5
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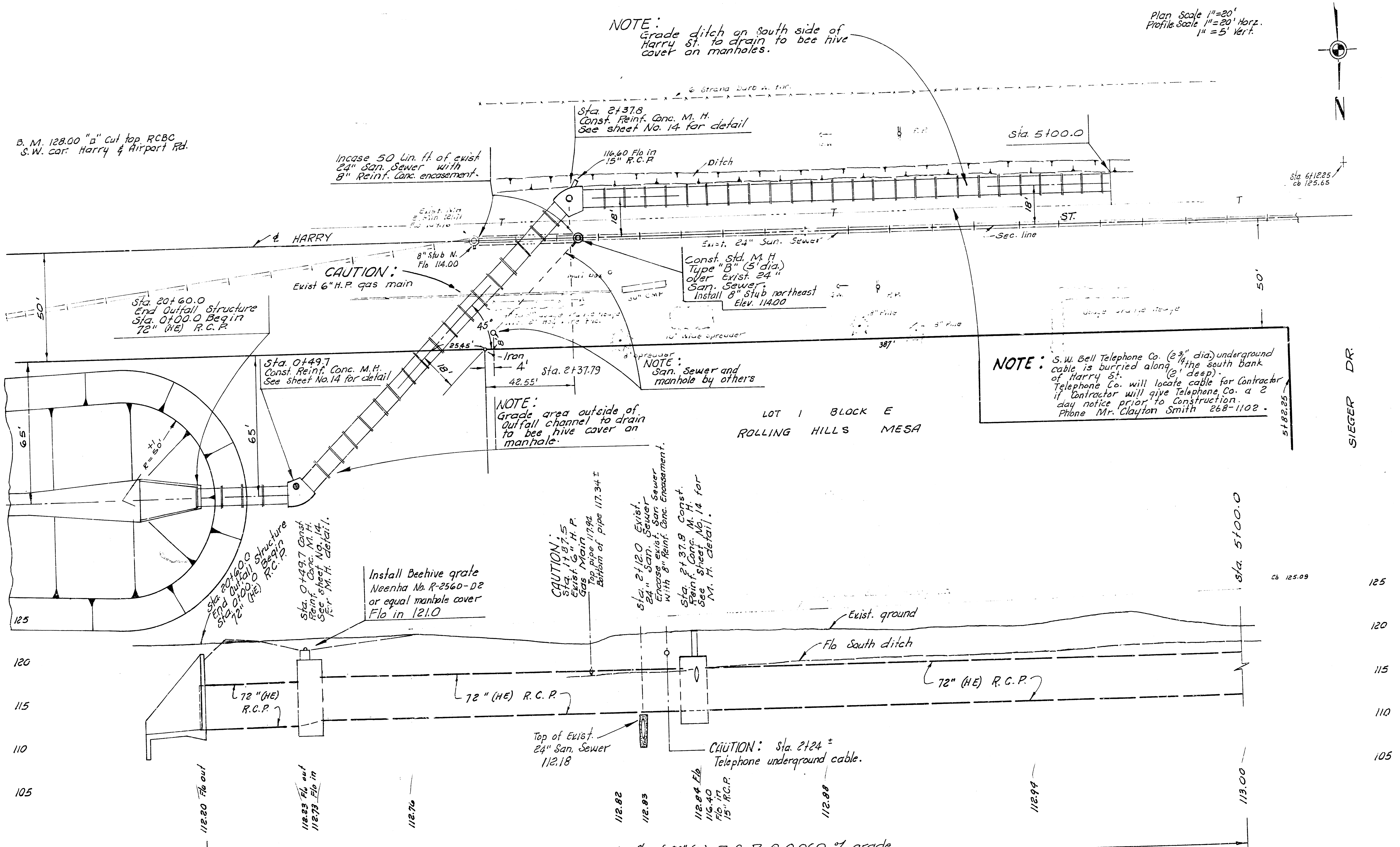

Revised 4-5-76

S. W. D. NO. 25 6/20

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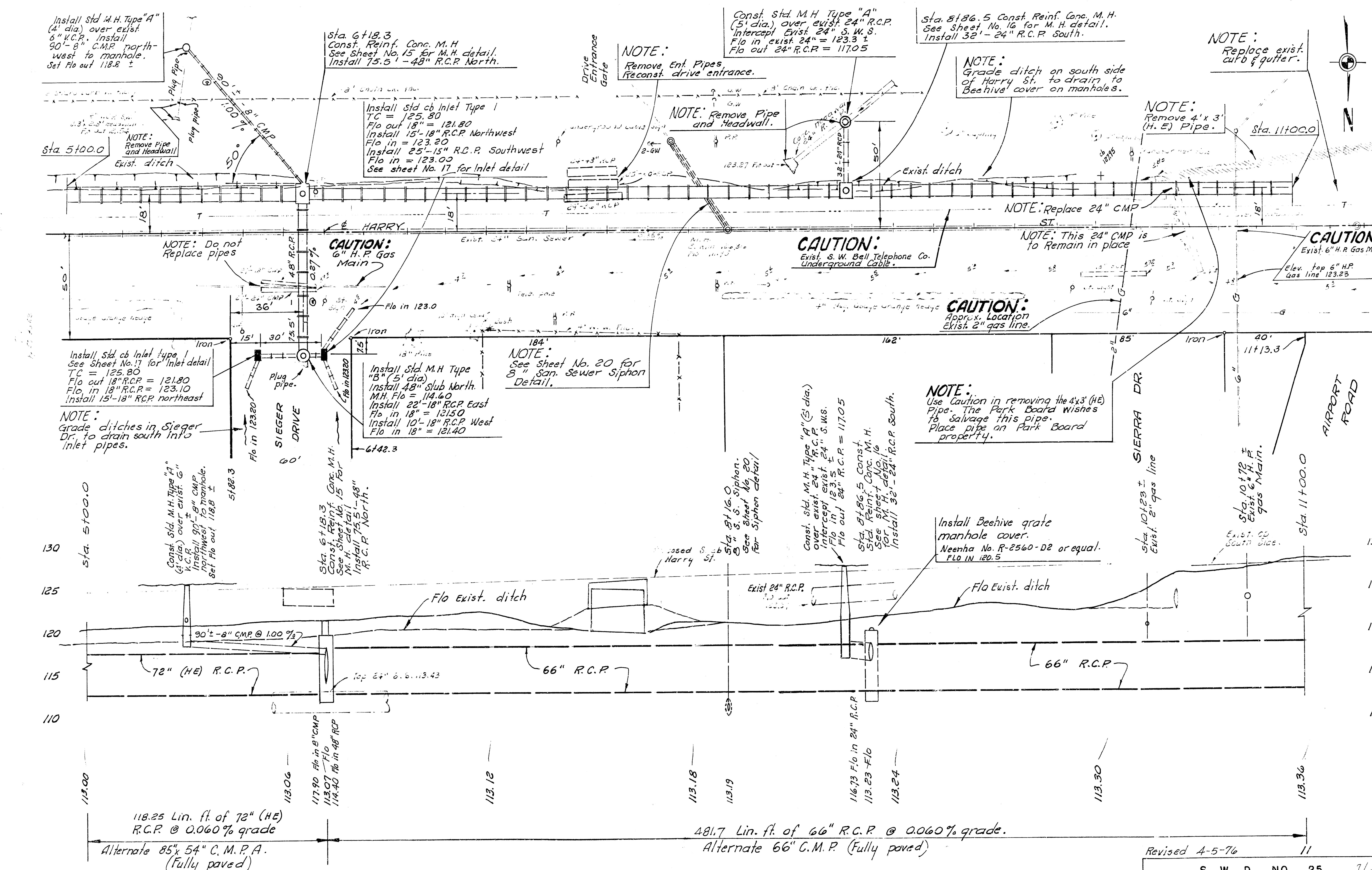
6/20



Revised 4-5-76

S. W. D. NO. 25

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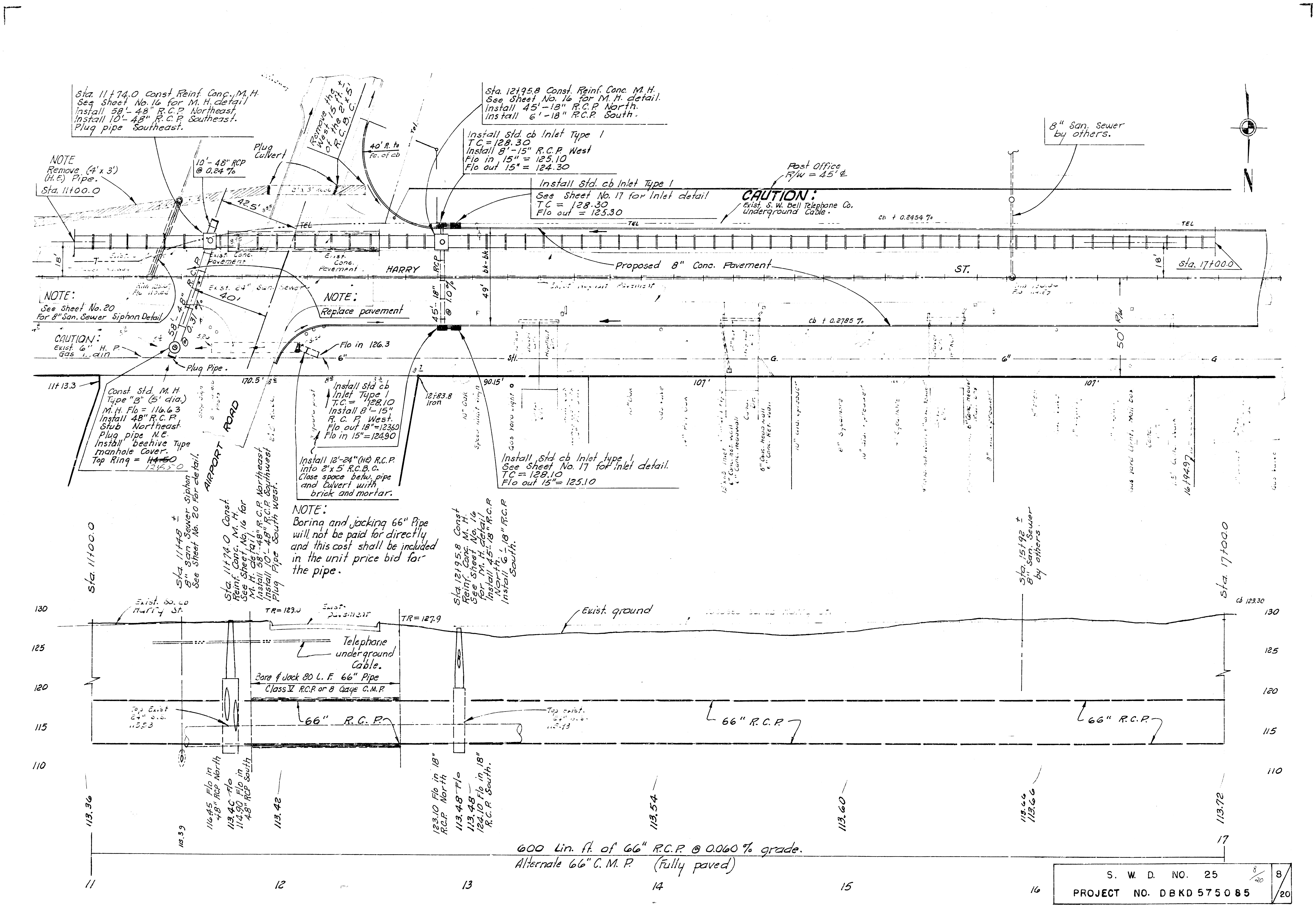
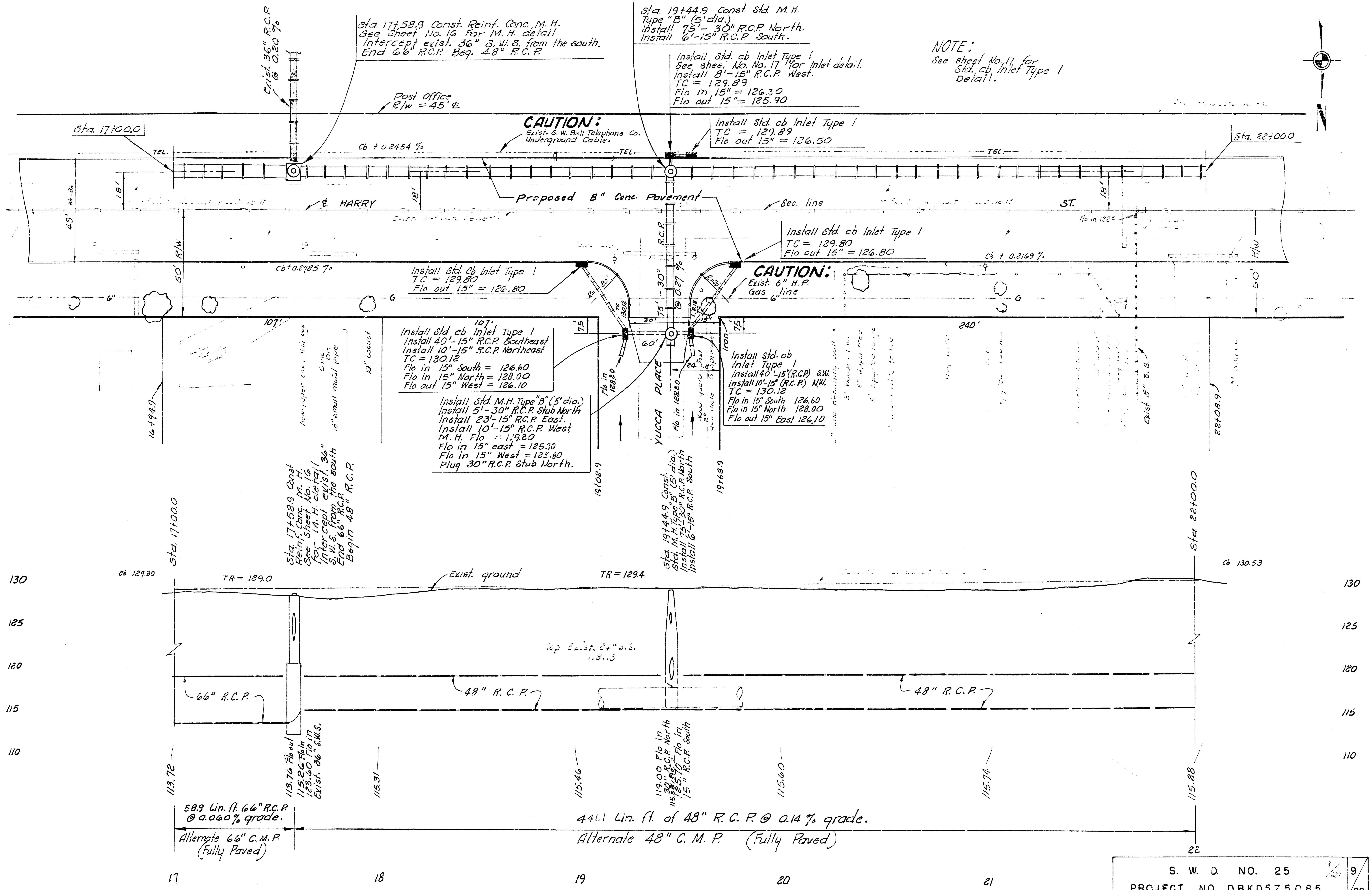
7/20



S. W. D. NO. 25 8/20

PROJECT NO. DBKD 575085



S. W. D. NO. 25 9/20

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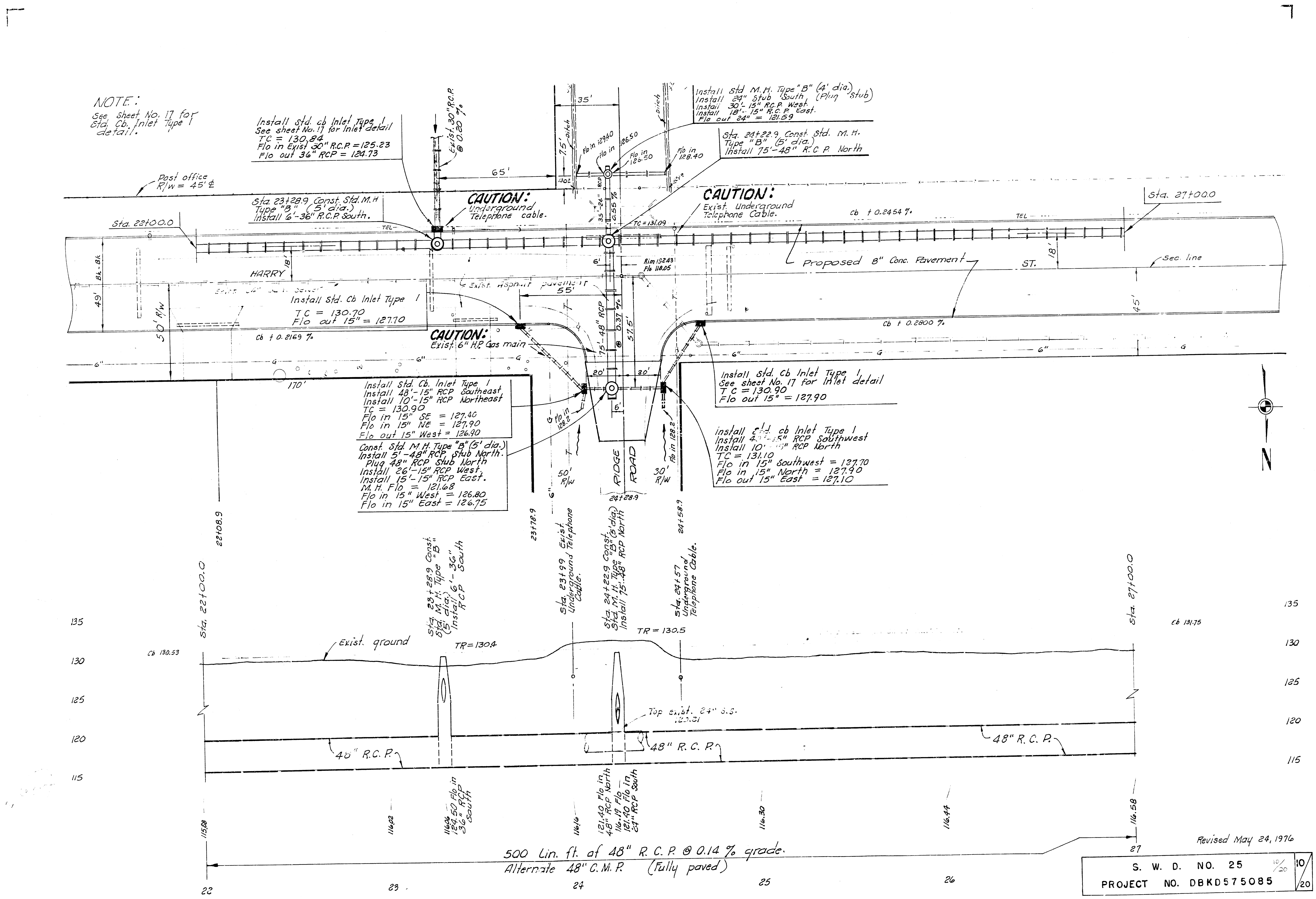
9/20



Revised May 24, 1976

S. W. D. NO. 25 10/20

PROJECT NO. DBKD575085

10/20

Sta. 28+75.3 Const. Std. M. H. Type "B" (5' dia.) Install 60'-30" RCP North Install 6'-15" RCP South

Install Std. Cb Inlet Type I See sheet No. 17 for inlet detail T.C. = 132.17 Flo out 15" = 128.10

CAUTION: Exist. S. W. Bell Telephone Underground Conduit.

Sta. 27+00.0

Cb +0.24% 7%

TEL.

TEL

TC 133.20

Sta. 32+00.0

18'

HARRY

60'-30" RCP @ 0.36 %

ROAD

RELOCATED

ST.

18'

Proposed Ramp by others

NOTE: Install temporary Pipe plug.

Cb +0.25% 7%

Elev. 128.46 P.O. 125.37

TC 133.20

Exist. 24" cum. sewer

6"

G

6"

G

Flo in ~~126.82~~ 126.22

45° ℄

133°

CAUTION: Exist. 6" H. P. Gas main

Install Std. Cb Inlet Type I See sheet No. 17 for inlet detail T.C. = 132.02 Flo 30" RCP = 126.75

281+70.3

Proposed Ramp by others

℄ RIDGE

Proposed Elevated Roadway by others.

30+76.3

Proposed Ramp by others

N

32+00.0

Sta. 27+00.0

Sta. 28+75.3 Const. Std. M.H. Type "B" (5' dia.) Install 60'-30" R.C.P. North Install 6'-15" R.C.P. South

Sta. 29+45 ± 129.95 Top 6" Gas line

Sta. 31+25 ± 120.71 Top 6" Gas line

Sta. 32+00.0

Cb 131.75

TR = 131.7

Cb 132.98

135

130

125

120

115

110

Flo in 126.22

48" R. C. P.

48" R. C. P.

116.58

116.72

125.00 ~~124.50~~ Flo in 30" RCP North 114.83 Flo —

127.90 Flo in 15" RCP South

116.86

117.00

117.14

117.28

500 Lin. ft. of 48" R.C.P. @ 0.14 % grade

Alternate 48" C.M.P. (Fully paved)

Revised 3-1-76

27 28 29 30 31 32

S. W. D. NO. 25 11/20 | 11/20

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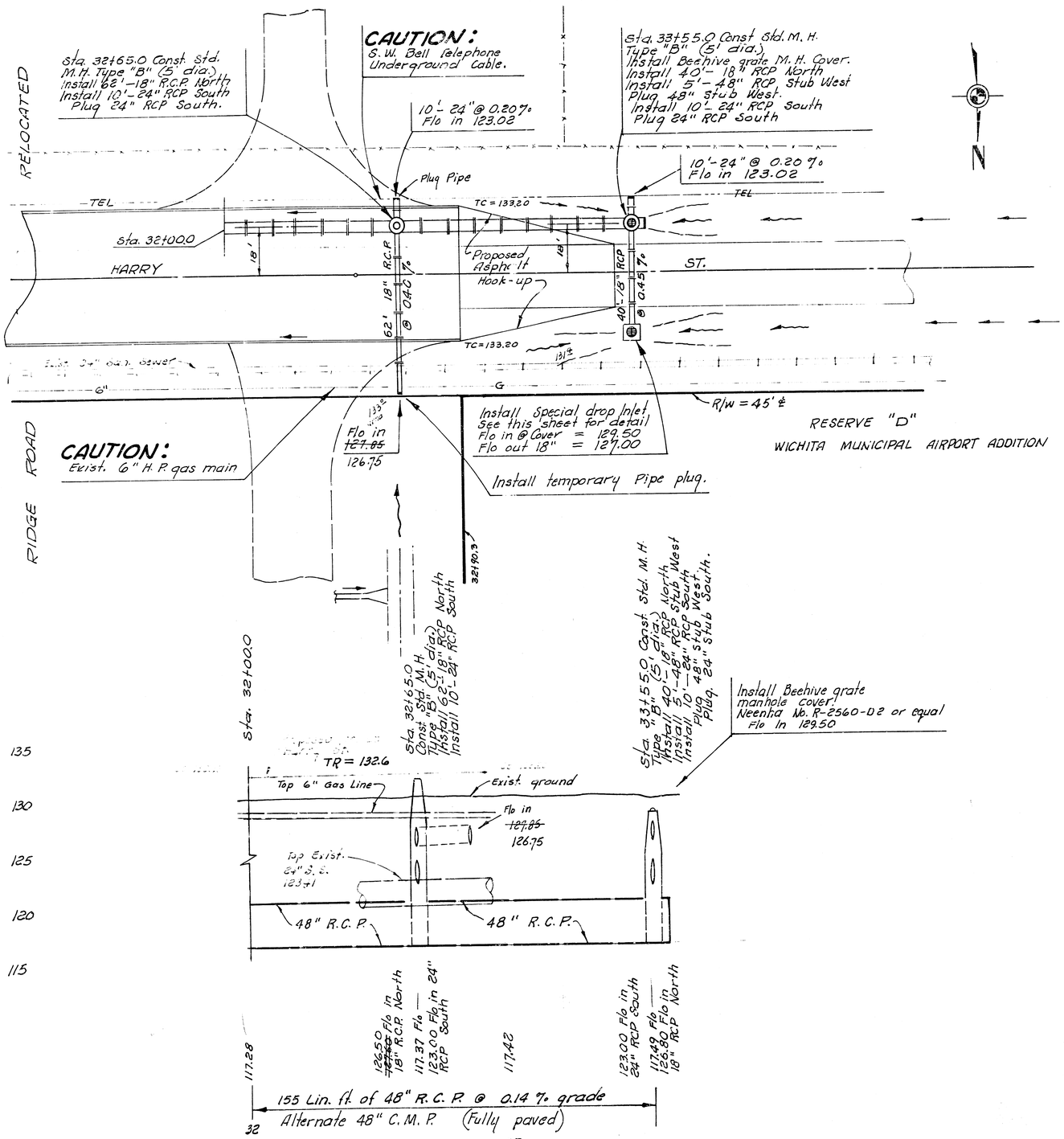

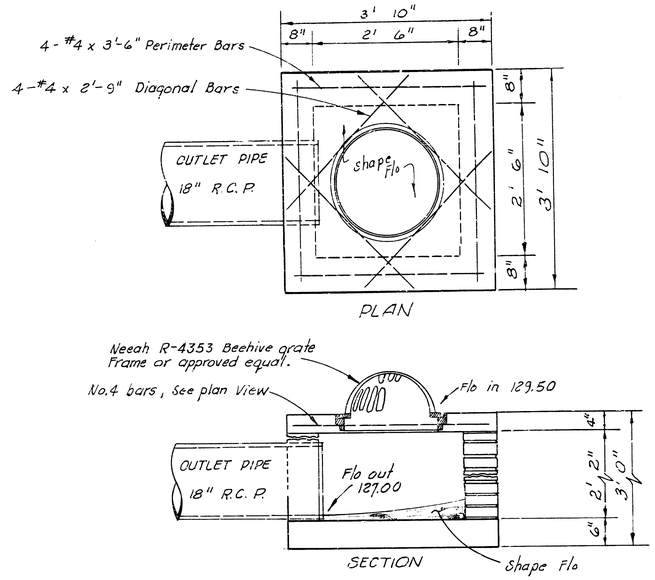

SPECIAL DROP INLET
Sta. 33+55.0

Revised 3-1-76

S. W. D. NC. 25	12/20
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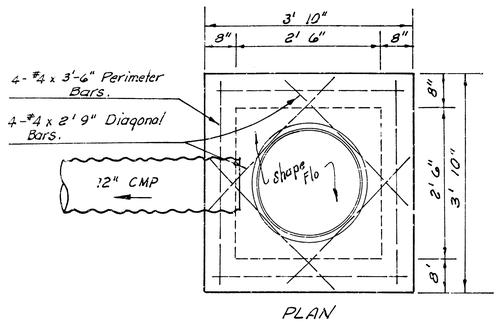
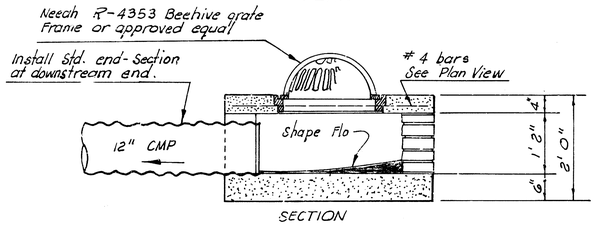
14-7-2-2
14-7-3-5



PLAN

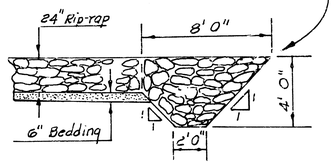


SECTION

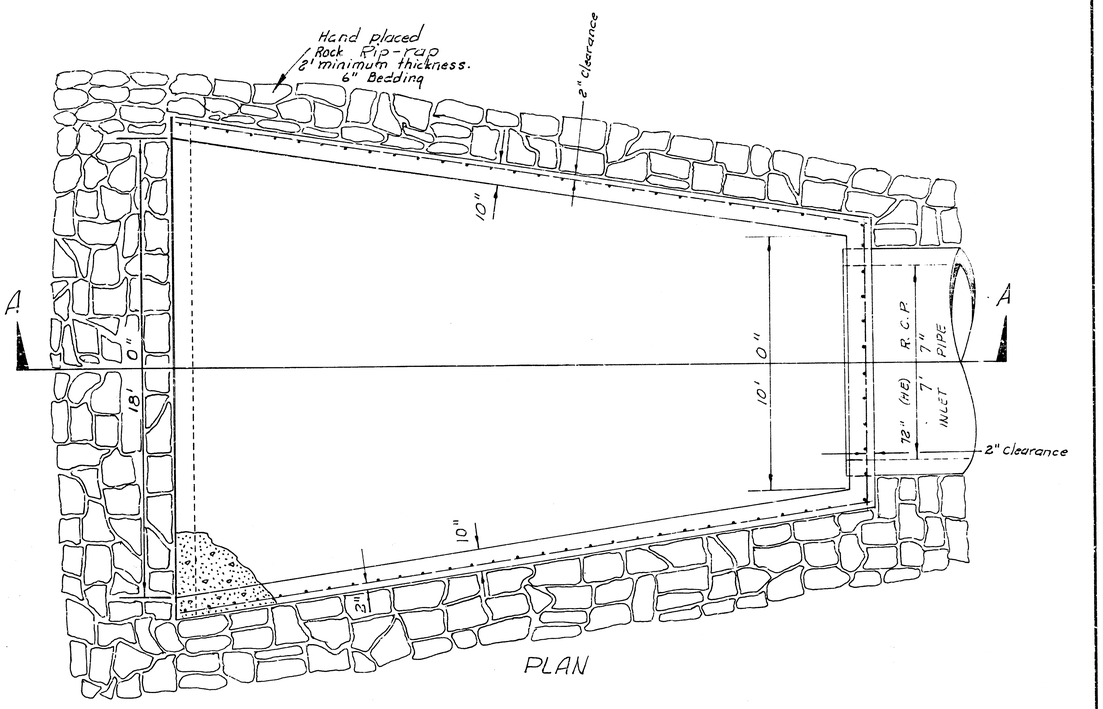
SPECIAL DROP INLET
NOT TO SCALE
Sta. 0+95 and Sta. 6+70
along Outfall Channel

Sheet No. 2 of 3

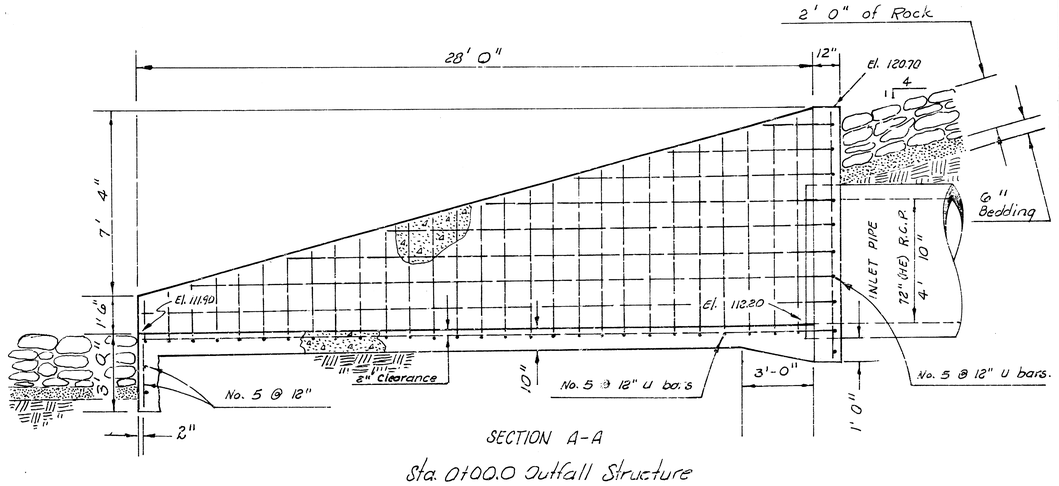
Rock Toe to be constructed on upstream and downstream ends of Riprap. Rock toe will not be paid for directly and shall be considered as subsidiary to the price bid per sq. yd. of Rock Riprap.



RIP-RAP DETAIL



PLAN

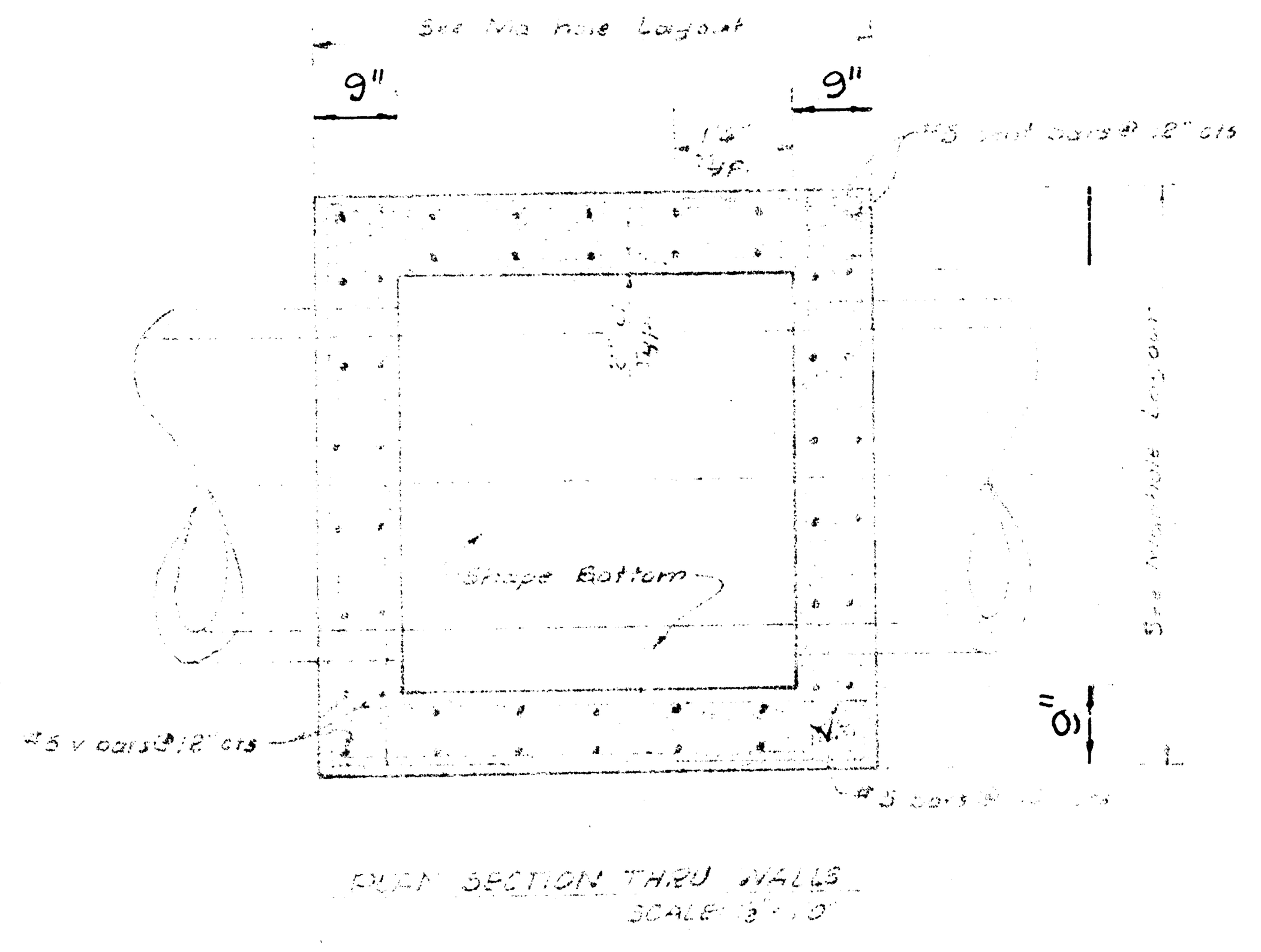


SECTION A-A

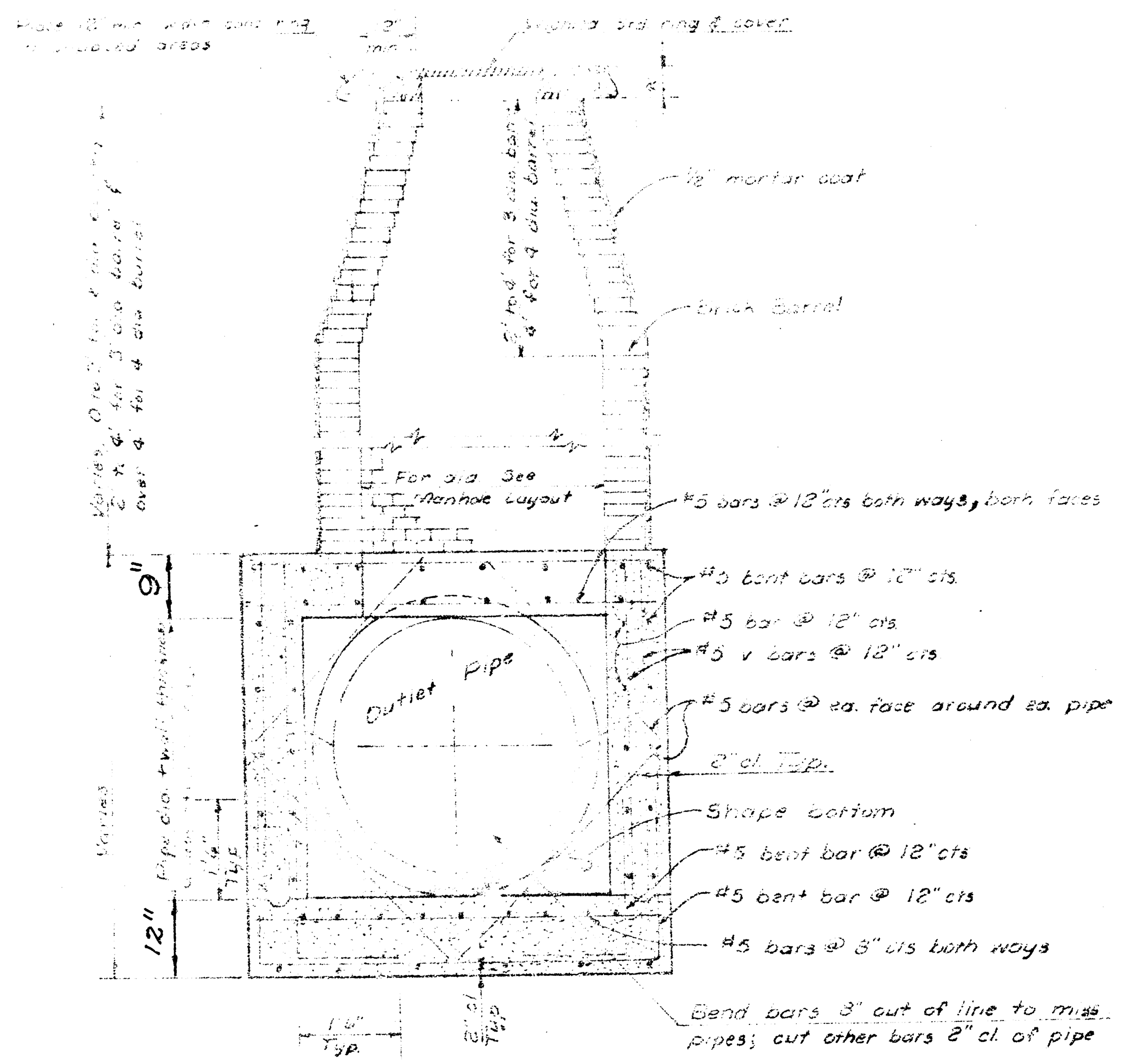
Sta. 0+00.0 Outfall Structure
Sta. 20+60.0 Outfall Channel

Scale 1" = 3/8"

S. W. D. NO. 25	13/20 | 13/20
PROJECT NO. DBKD 575085	

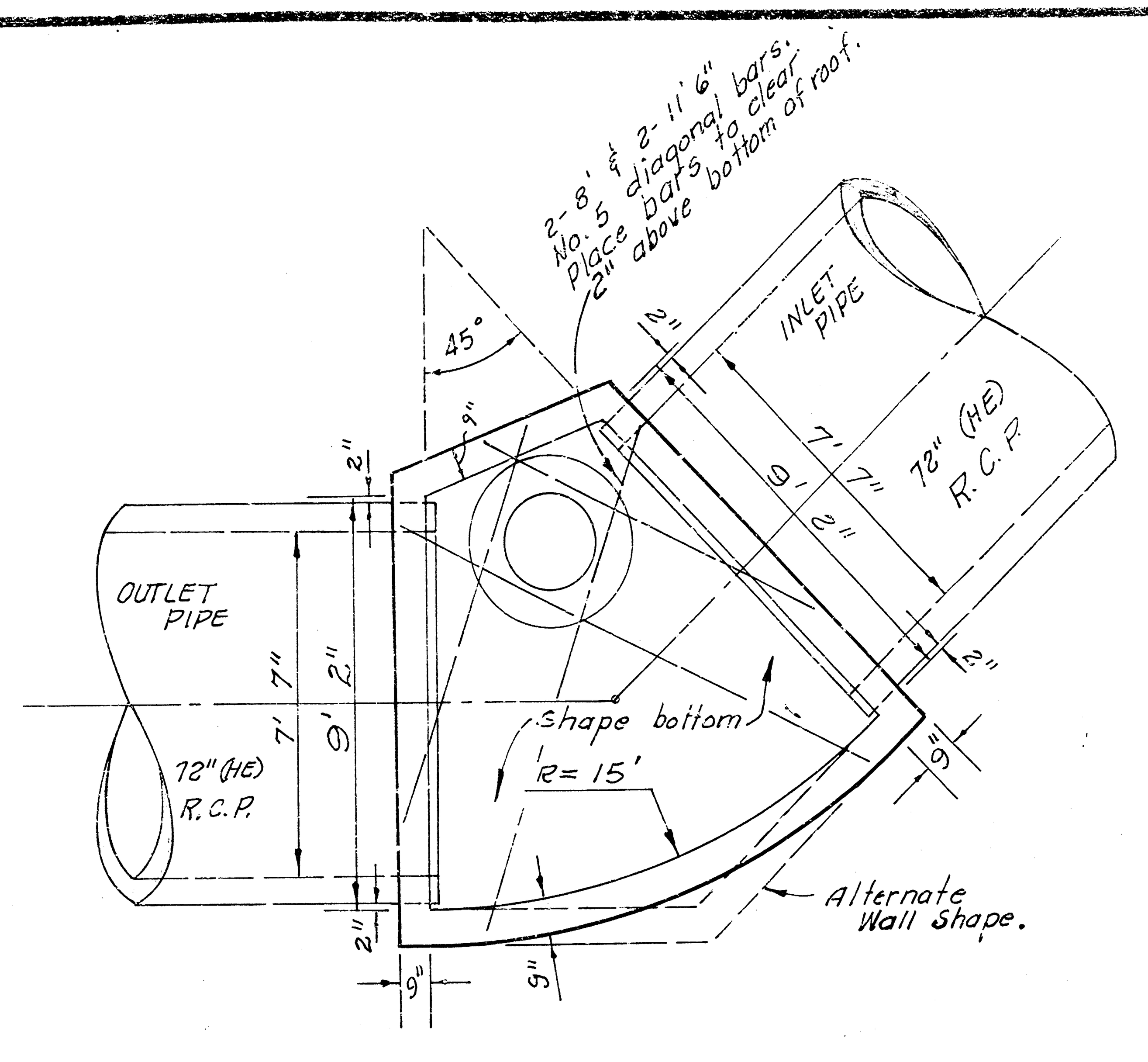


PLAN SECTION THRU WALLS



TYPICAL ELEVATION SECTION
SCALE: ½" = 1'0"

S. D. REINF. CONC. MANHOLE DETAILS



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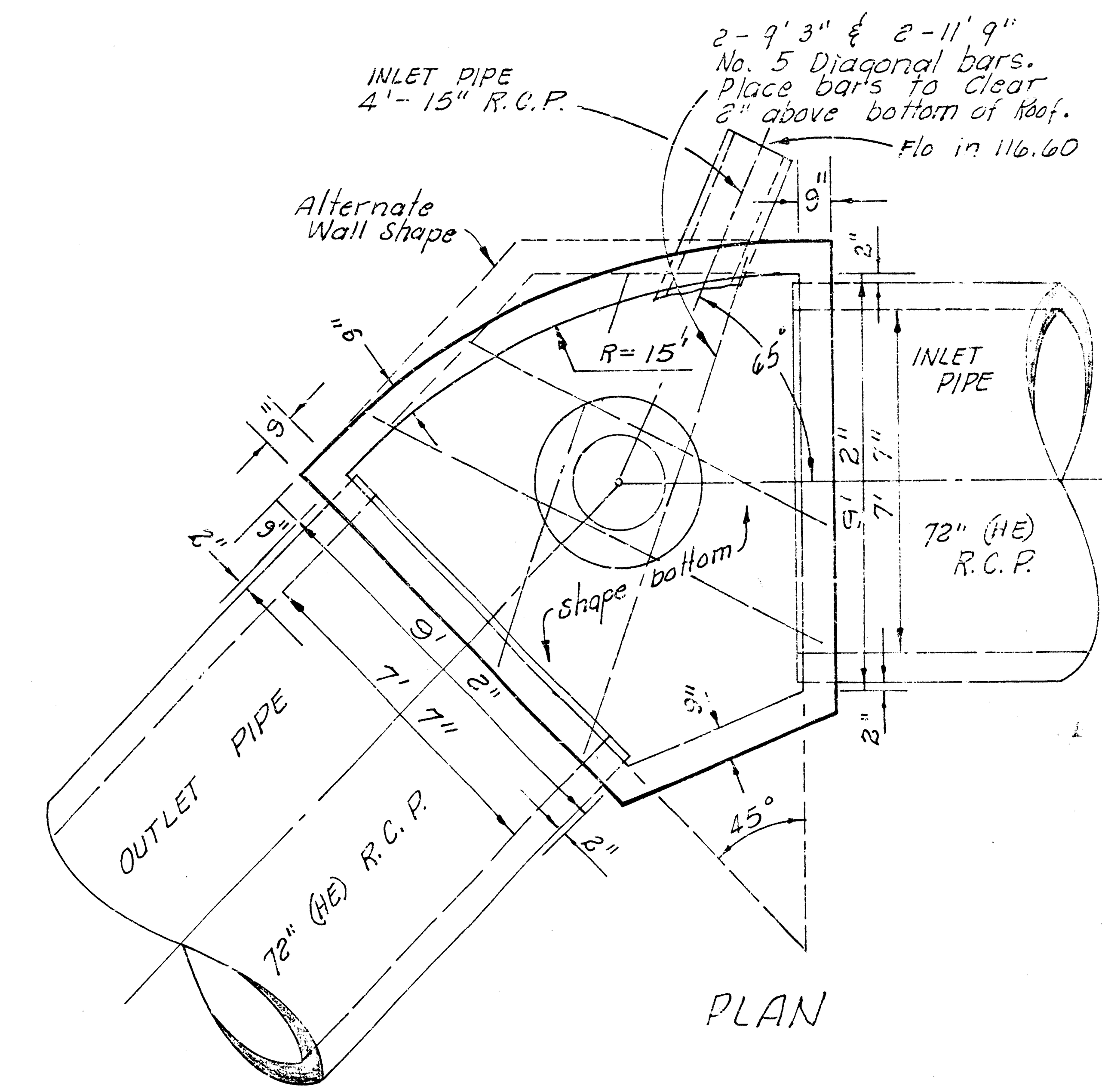

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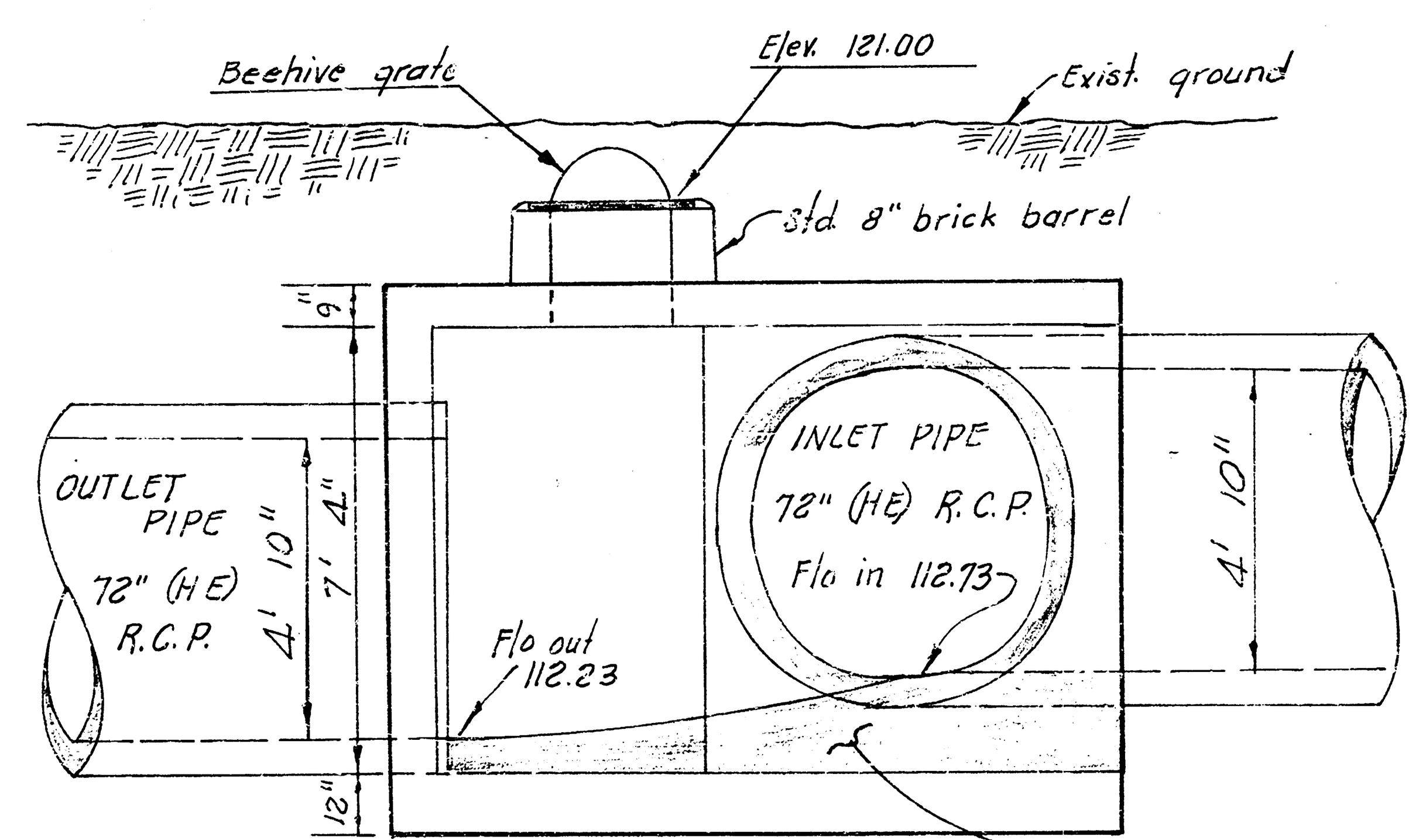
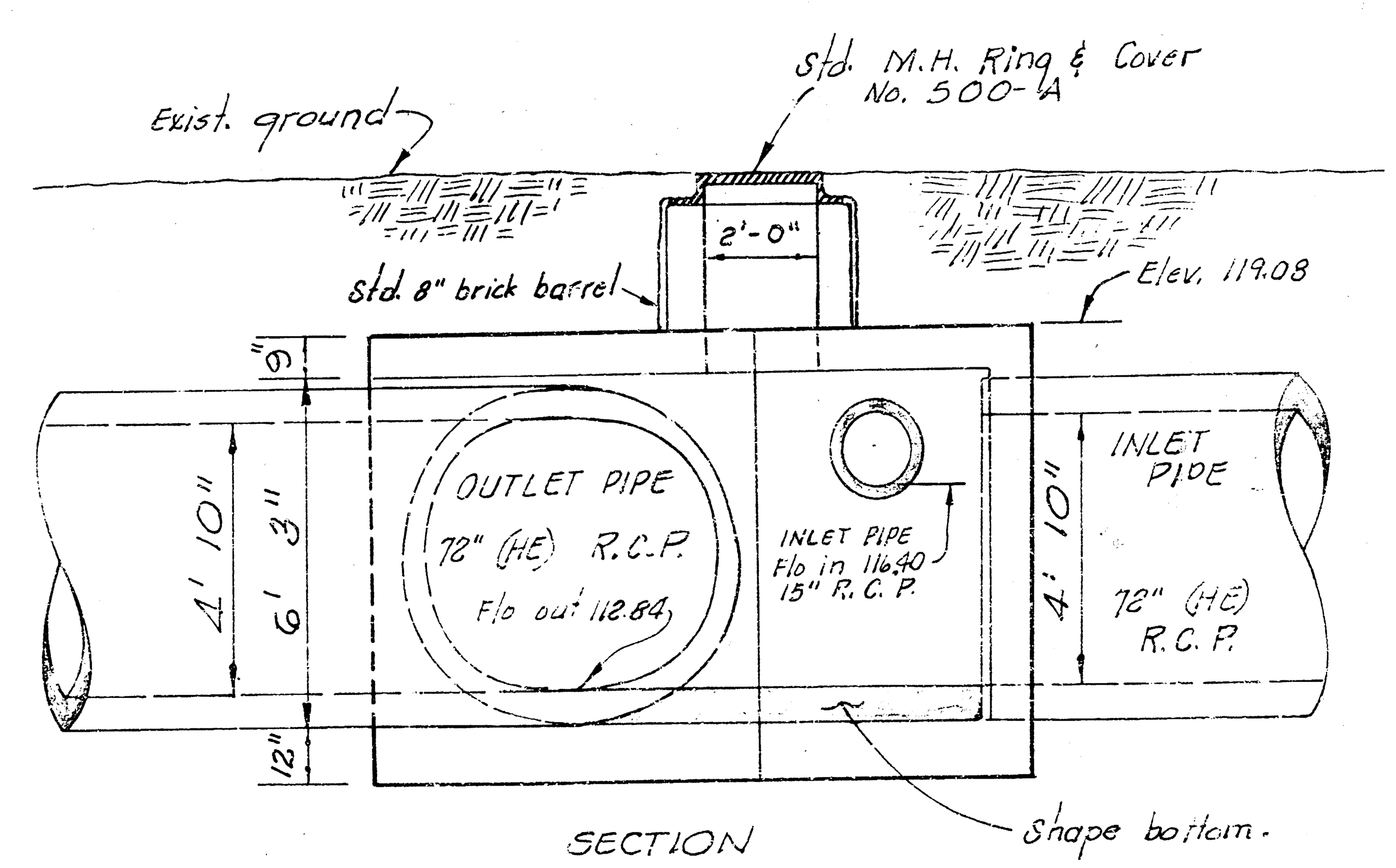


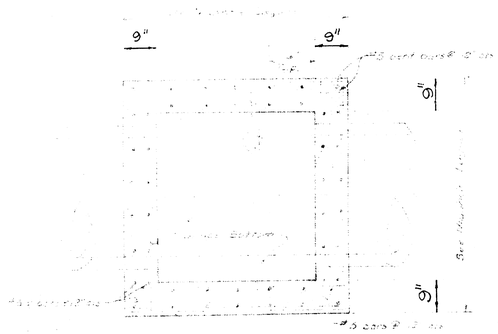
SECTION
REINF. CONC. MANHOLE
Sta 0+49.7
Sheet No. 6
Scale 3/8" = 1'0"

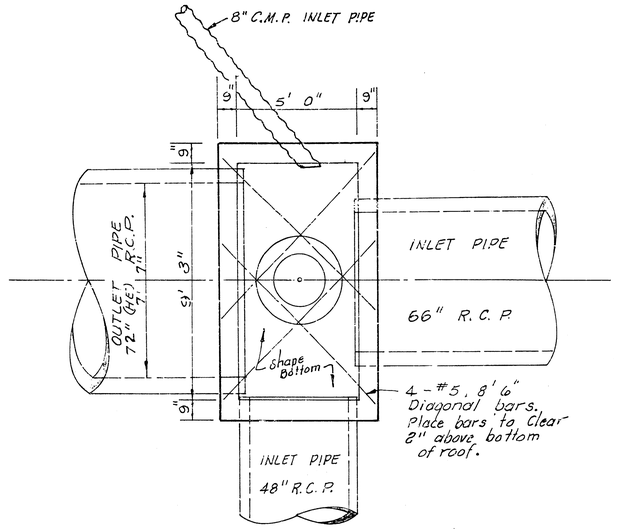


SECTION
REINF. CONC. MANHOLE
Sta. 2+37.8
Sheet No. 6
Scale 3/8" = 1'0"

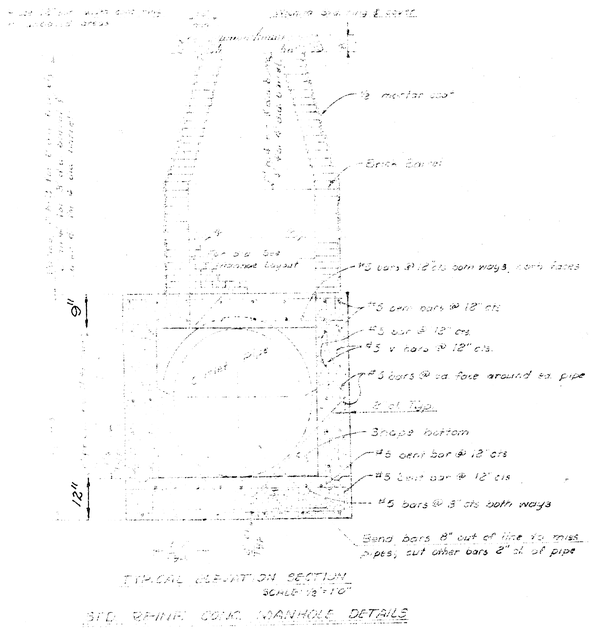
Revised 4-5-76

S. W. D. NO. 25	14/20
PROJECT NO DDKD575085	



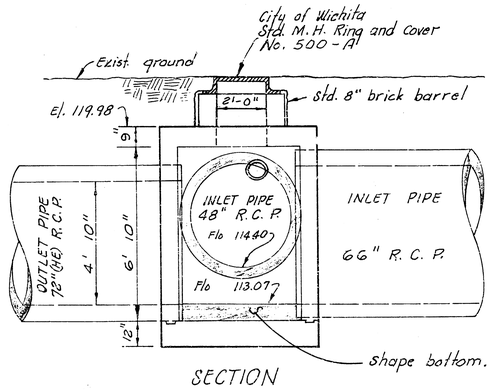


PLAN



TYPICAL CLEANOUT SECTION
SCALE: 3/4" = 1'0"

STD. REINF. CONC. MANHOLE DETAILS



SECTION

REINF. CONC. MANHOLE

Sta. 6+18.3
Sheet No. 7
Scale 3/8" = 1'0"

Revised April 5, 1976

S. W. D. NO. 25	15/20
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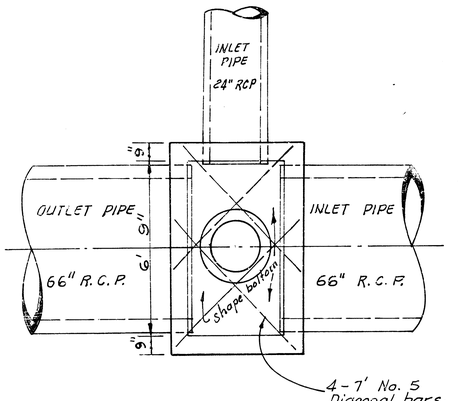
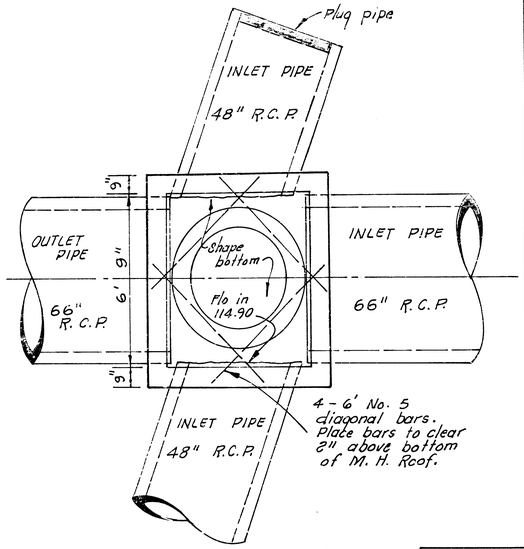
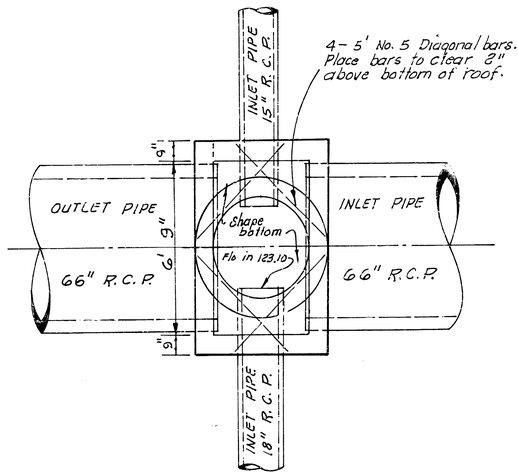


PLAN



PLAN



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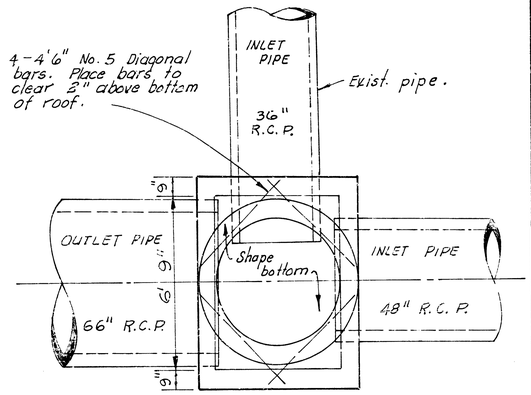
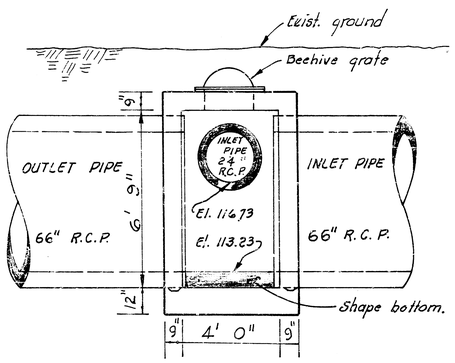


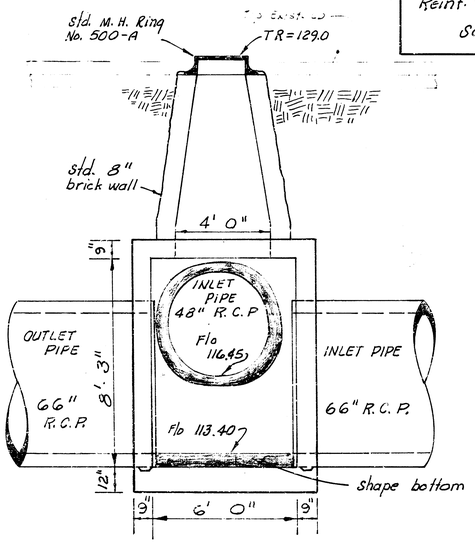
PLAN

NOTE:
See sheet No. 15 for Steel pattern for Typical Reinf. Conc. Manhole.

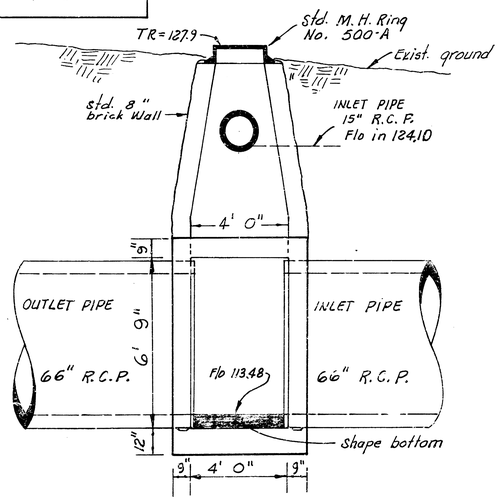
Scale 3/8" = 1' 0"



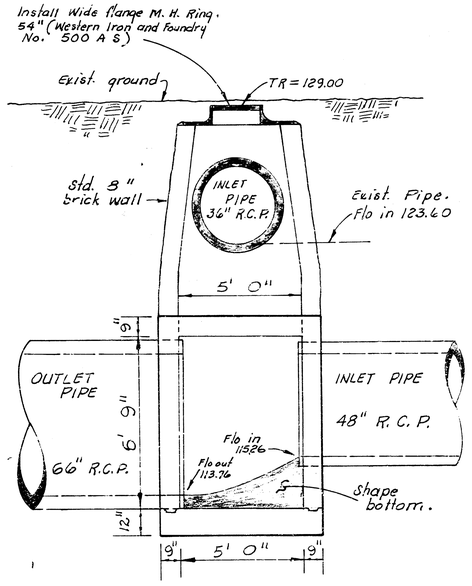
SECTION
REINF. CONC. MANHOLE
Sta. 8186.5
Sheet No. 7



SECTION
REINF. CONC. MANHOLE
Sta. 11+74.0
Sheet No. 8



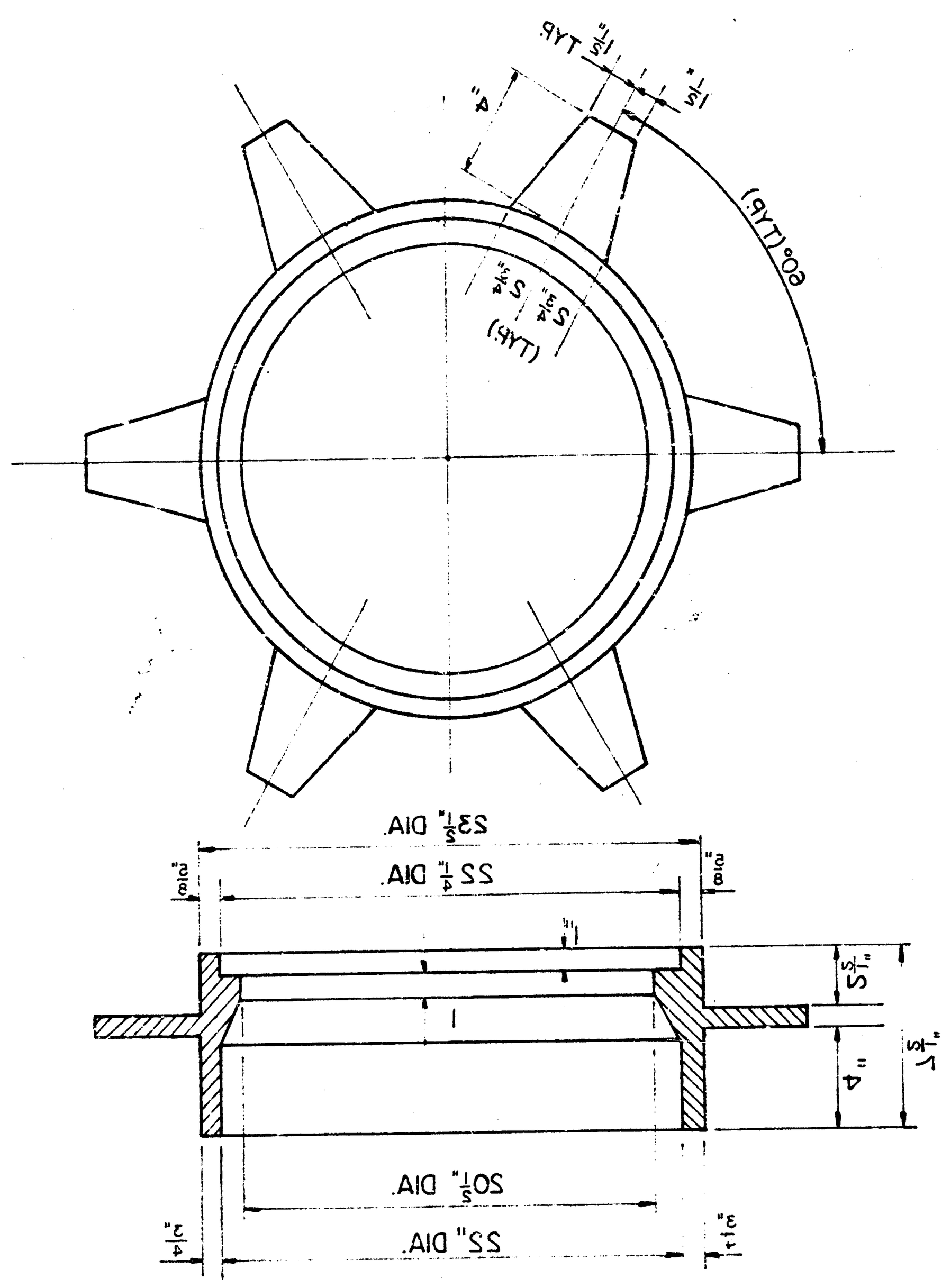
SECTION
REINF. CONC. MANHOLE
Sta. 12+95.8
Sheet No. 8



SECTION
REINF. CONC. MANHOLE
Sta. 17+58.9
Sheet No. 9

S. W. D. NO. 25 116/20
PROJECT NO. DBKD 5750 85

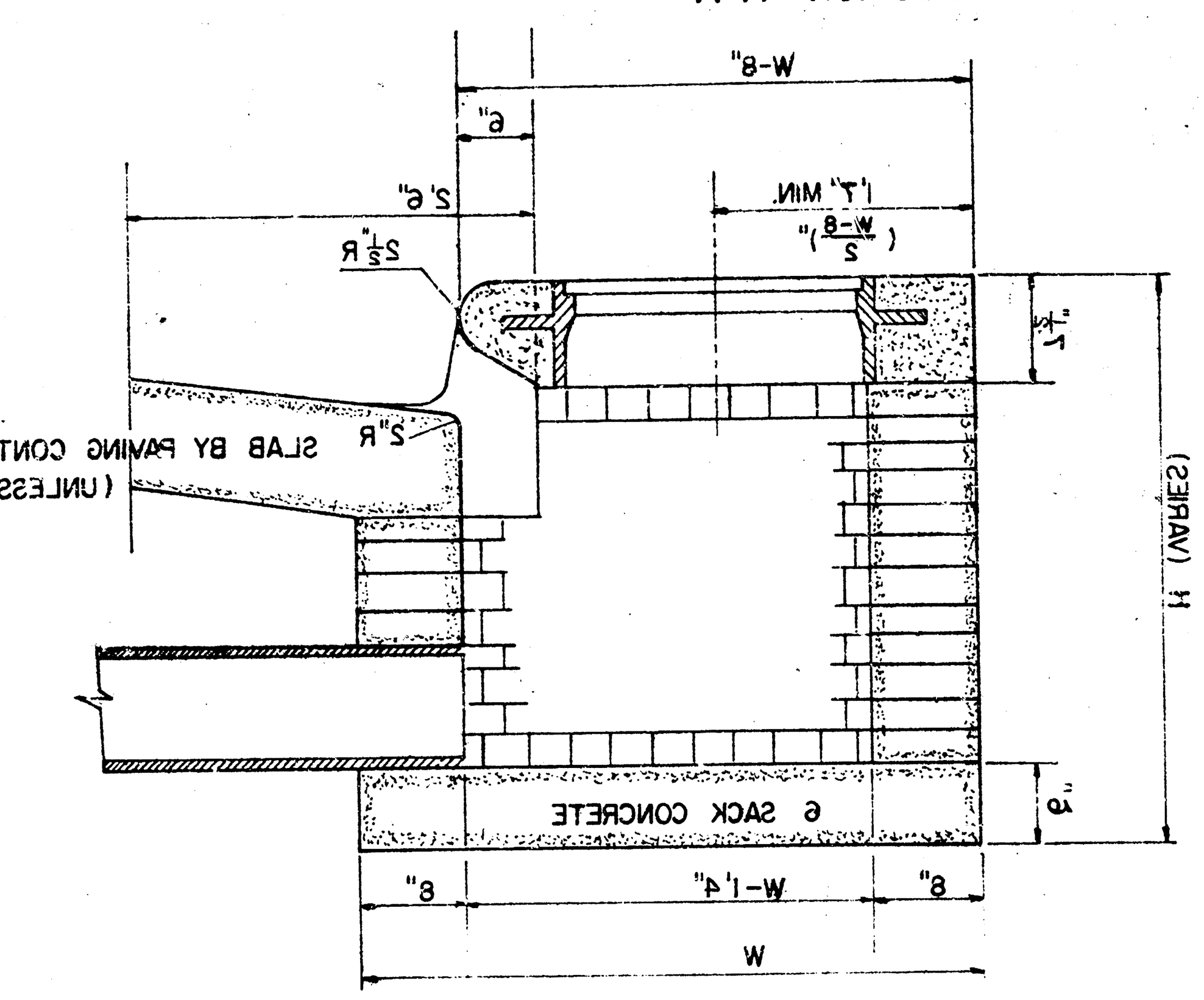
16/20



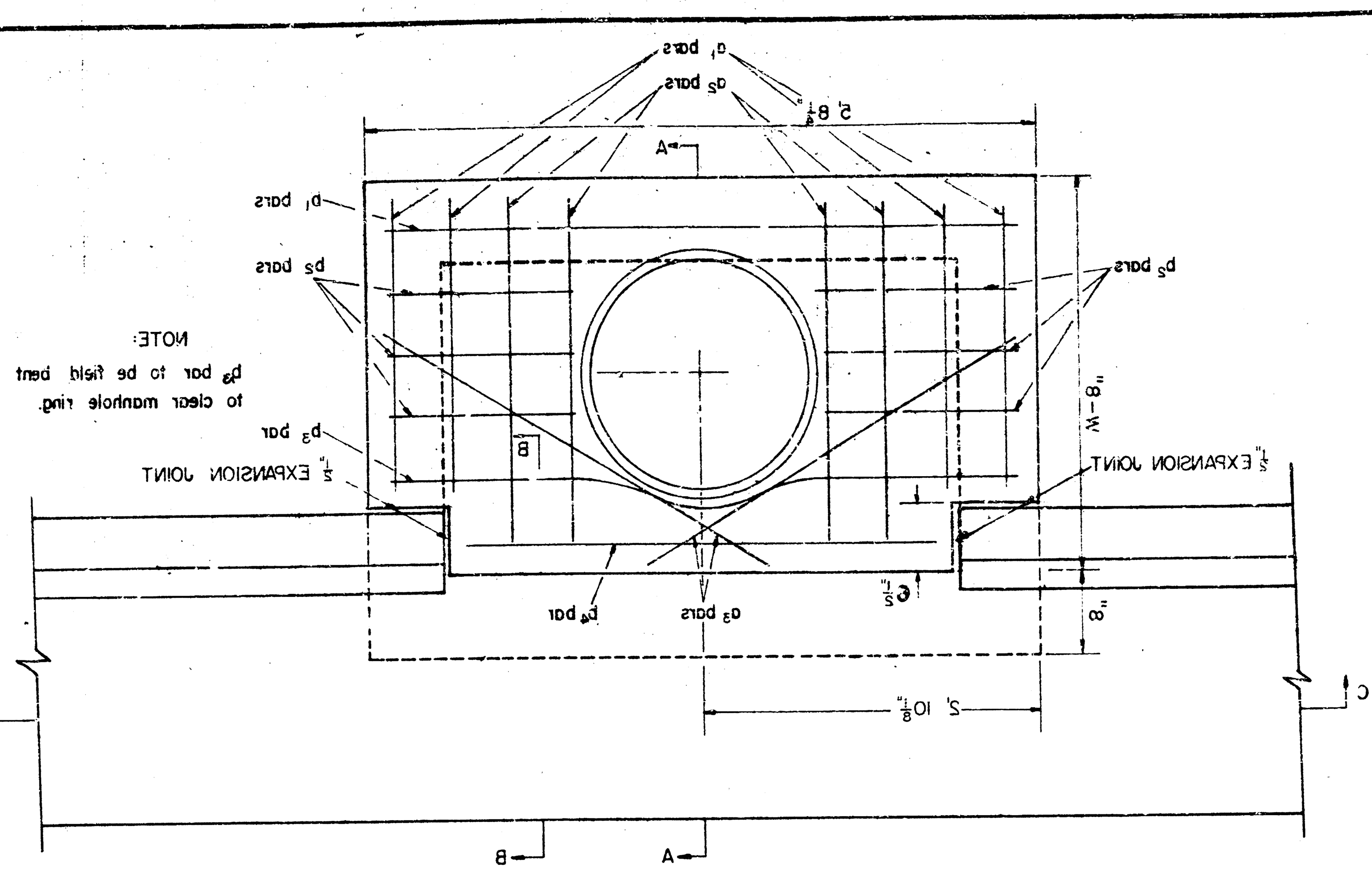
MANHOLE RING

SEE SEWER APPURTENANCES DETAIL SHEET FOR MANHOLE COVER

SECTION A-A

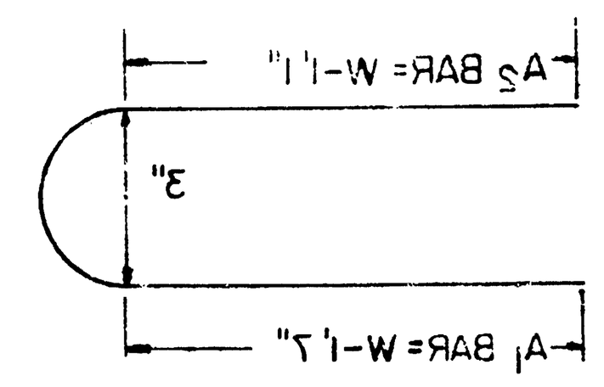


SECTION A-A
SCALE: 1" = 1'0"



PLAN
SCALE: 1" = 1'0"

REINF. STEEL TO BE PLACED ON 6" CTR'S.



SHAPE CURB AND/OR GUTTER AT INLET OPENING WITH SMOOTH CURVES

STD. CURB INLET CONCRETE TOP

W	SIZE	PIPE SIZE	CU.YD. CONC.
3'10"	3'2"x5'8¼"x7½"	24" & SMALLER	0.42*
4'10"	4'2"x5'8¼"x7½"	30" & 36"	0.55*
5'10"	5'2"x5'8¼"x7½"	42" & 48"	0.68*

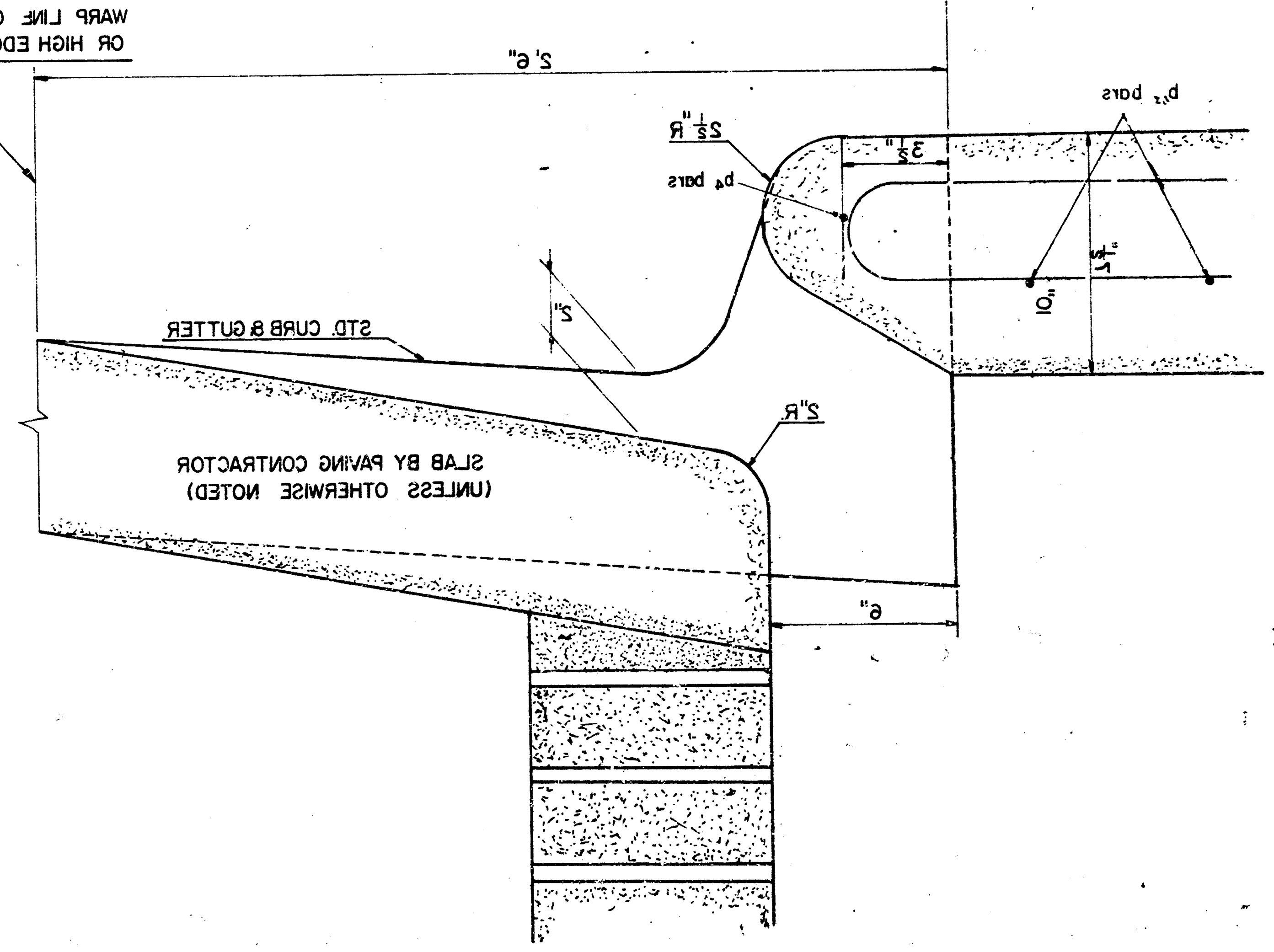
* GROSS VOLUME

CONCRETE TOPS TO BE INSTALLED ON THIN MORTAR CUSHION TO INSURE FULL SUPPORT ALONG BRICK WALLS. CONCRETE TOPS MAY BE CAST IN PLACE OR PRECAST. CONCRETE FOR INLET TOPS AND FLOORS SHALL BE 6 SACK PAVING MIX.

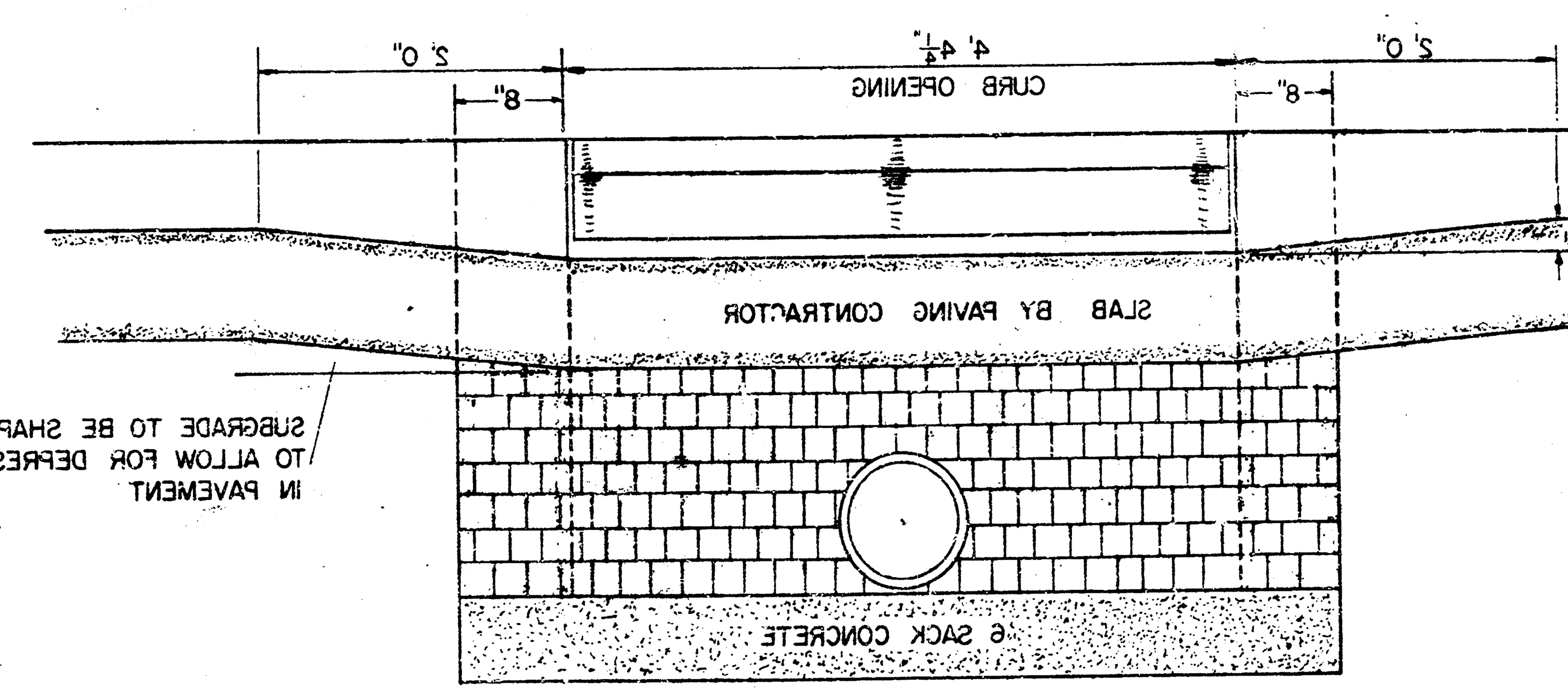
BAR		a_1	a_2	a_3*	b_1 W=3'10"	b_1 W=4'10"	b_1 W=5'10"	b_2	b_3	b_4	Wt. Lbs.
SIZE		#4	#4	#4	#4	#4	#4	#4	#4	#6	
NUMBER		4	4	2	1	3	5	6	1	1	
LENGTH	W=3'10"	4'9"	5'9"	3'7"	5'5"	--	-	1'7"	5'6"	4'0"	53
LENGTH	W=4'10"	6'9"	7'9"	4'7"	-	5'5"	-	1'7"	5'6"	4'0"	72
LENGTH	W=5'10"	8'9"	9'9"	5'7"	-	-	5'5"	1'7"	5'6"	4'0"	91

* NOTE: A_3 BARS TO BE PLACED APPROXIMATELY 2" BELOW TOP OF INLET COVER

SECTION B-B
SCALE: 3" = 1'0"



THIS TYPE INLET TO BE USED WHEN PAVEMENT IS ASPHALT PAVEMENT WITH CONCRETE BASE AND/OR WHEN PAVEMENTS HAVE FULL HEIGHT STANDARD CURBS.



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

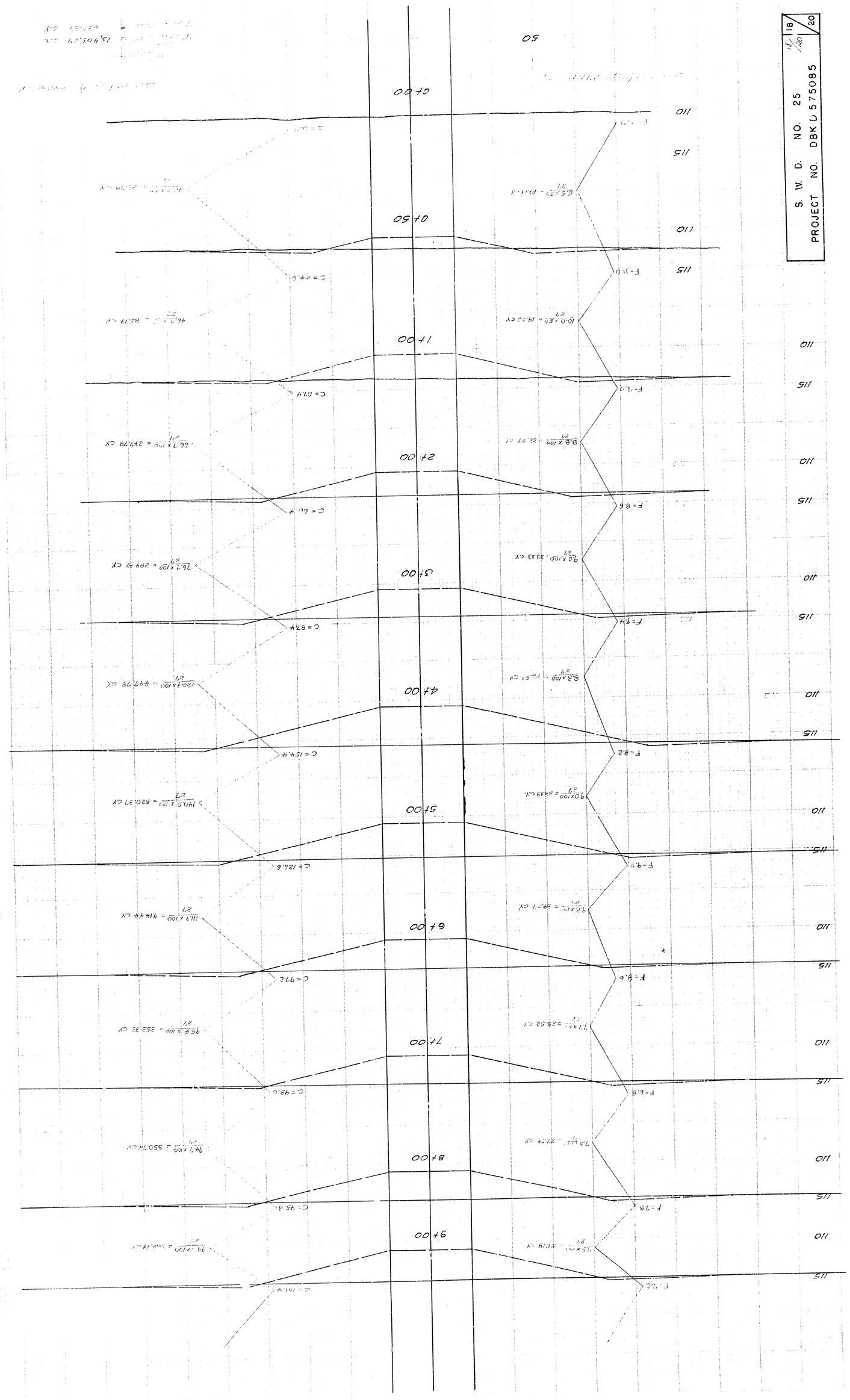
BRICK FOR INLET CONSTRUCTION SHALL CONFORM WITH THE LATEST REVISION OF THE AMERICAN SOCIETY FOR TESTING AND MATERIALS DESIGNATION C32 FOR MANHOLE BRICK GRADE MS.

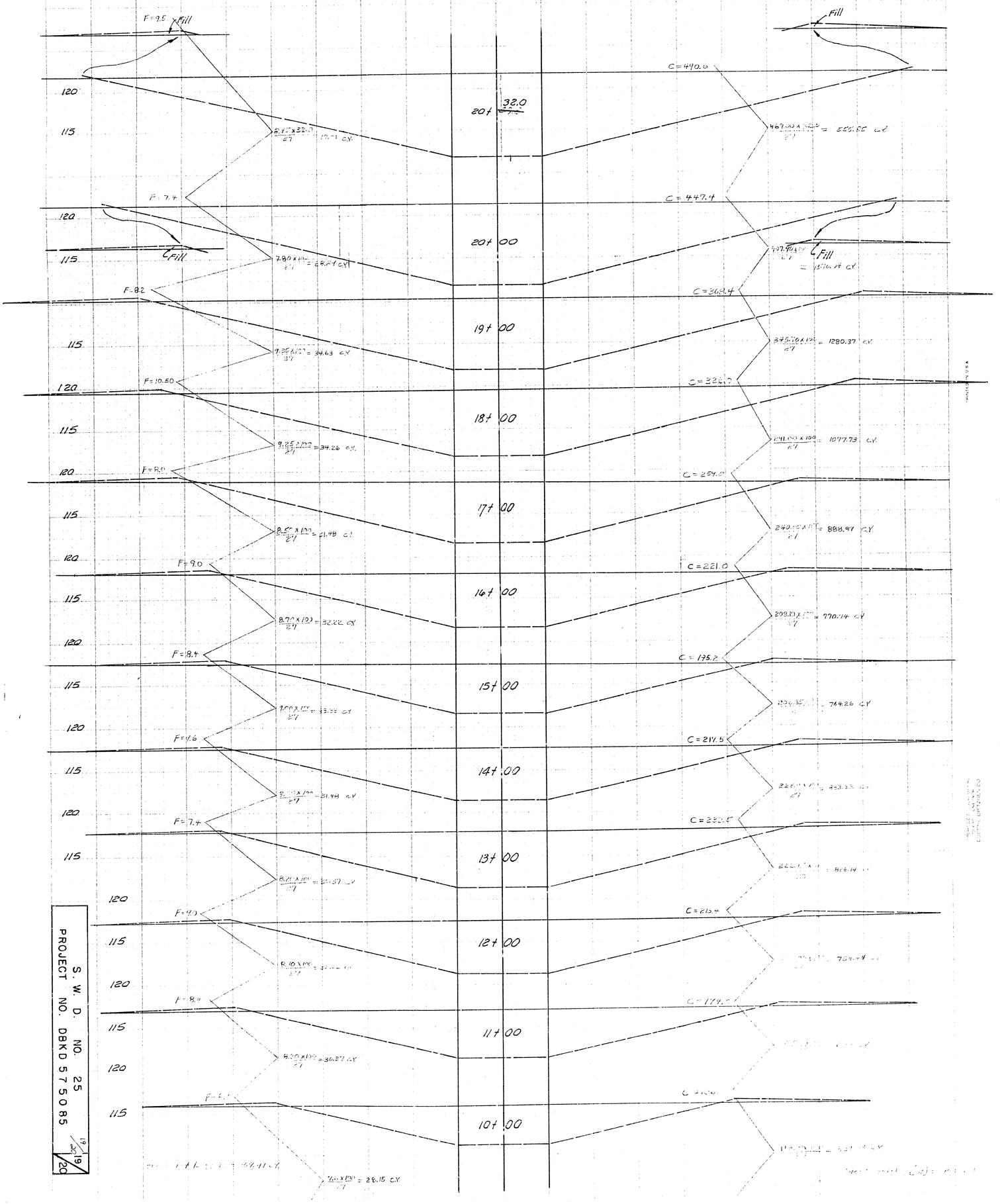
DETAIL
STANDARD CURB INLET-TYPE I
CITY OF WICHITA, KANSAS
R.W. LINN-CITY ENGINEER
FEBRUARY, 1975

S W P NO. 28
PROJECT NO. [illegible]

S. W. D. NO. 25
PROJECT NO. DBK D 575085

18/20





S. W. D. NO. 25
PROJECT NO. DBKD 5750 85
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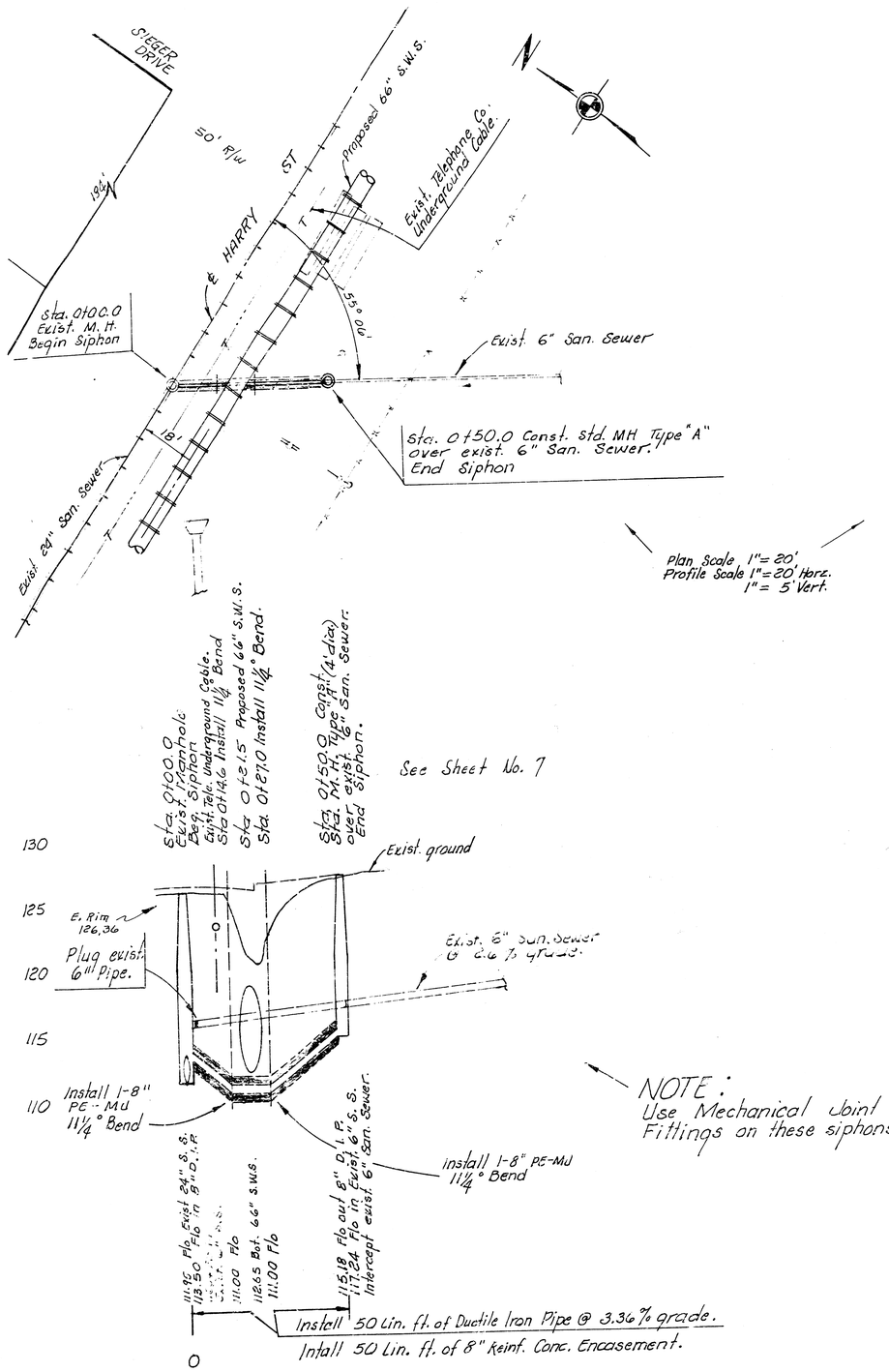

NOTE:
Use Mechanical Joint Fittings on these siphons.

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