

PLAN AND PROFILE FOR
STORM WATER SEWER NO. 109

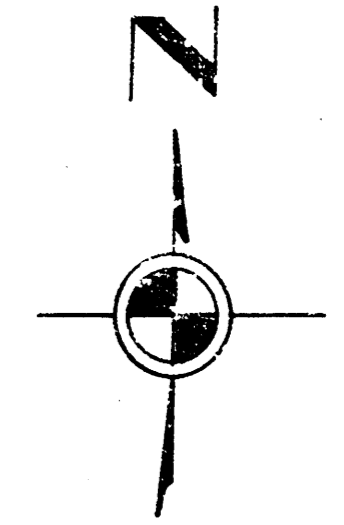
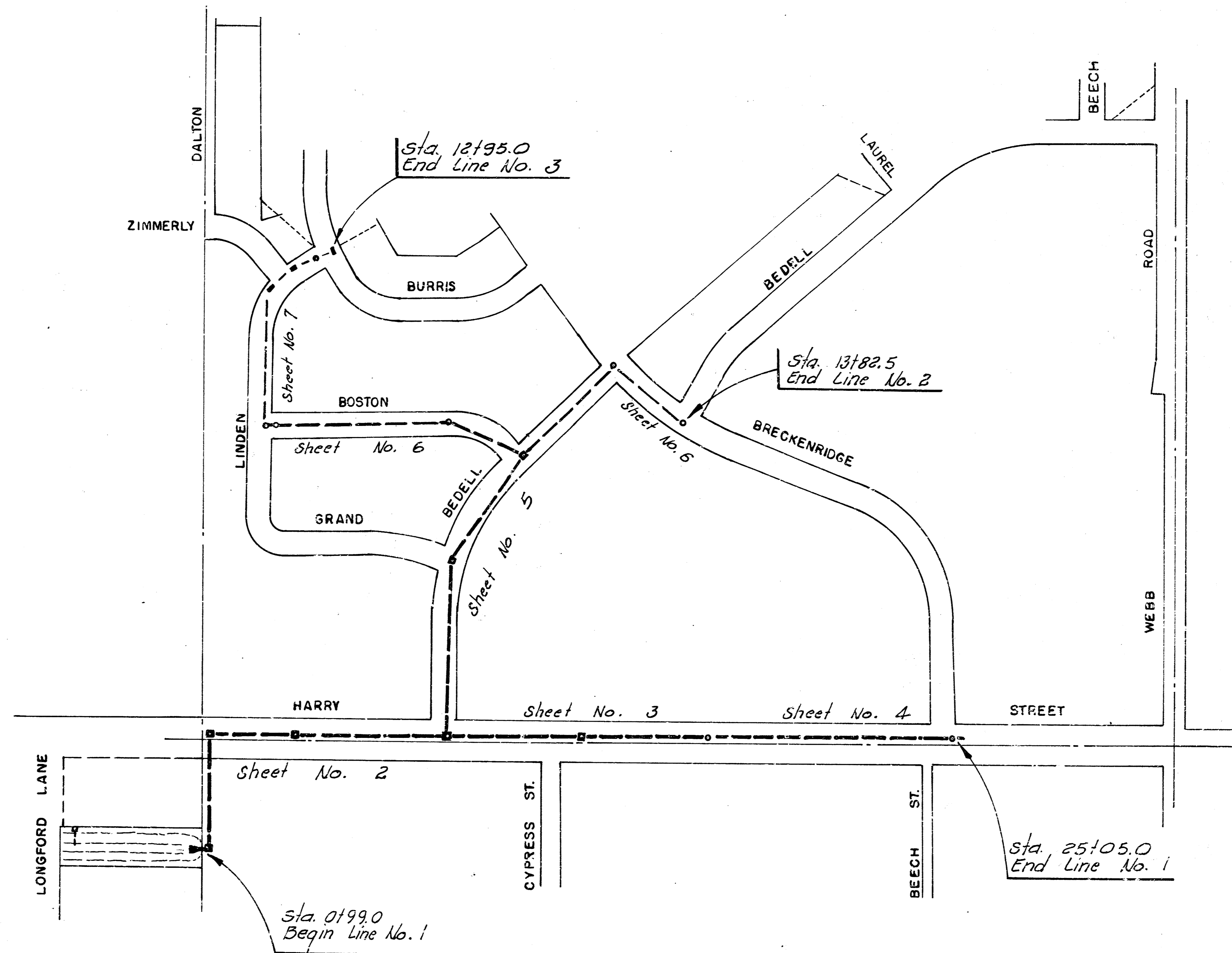
CITY OF WICHITA, KANSAS

R. W. LINN — CITY ENGINEER

MARCH 1976, PROJECT NO. DBKA 574052

— INDEX —

SHEET NO.	TITLE
1	TITLE, LOCATION MAP, BENEFIT DISTRICT
2-7	STORM WATER SEWER PLAN & PROFILE
8	OUTFALL STRUCTURE DETAIL
8	SPECIAL DROP INLET DETAIL
8	RIPRAP DETAIL
9-10	REINF. CONC. M. H. DETAIL
10	INLET LOCATIONS
11	INLET DETAIL
12	X-SECTION ON OUTFALL CHANNEL
13	REINF. CONC. M. H. DETAIL
13	INLET LOCATIONS
14	REINF. CONC. M. H. DETAIL

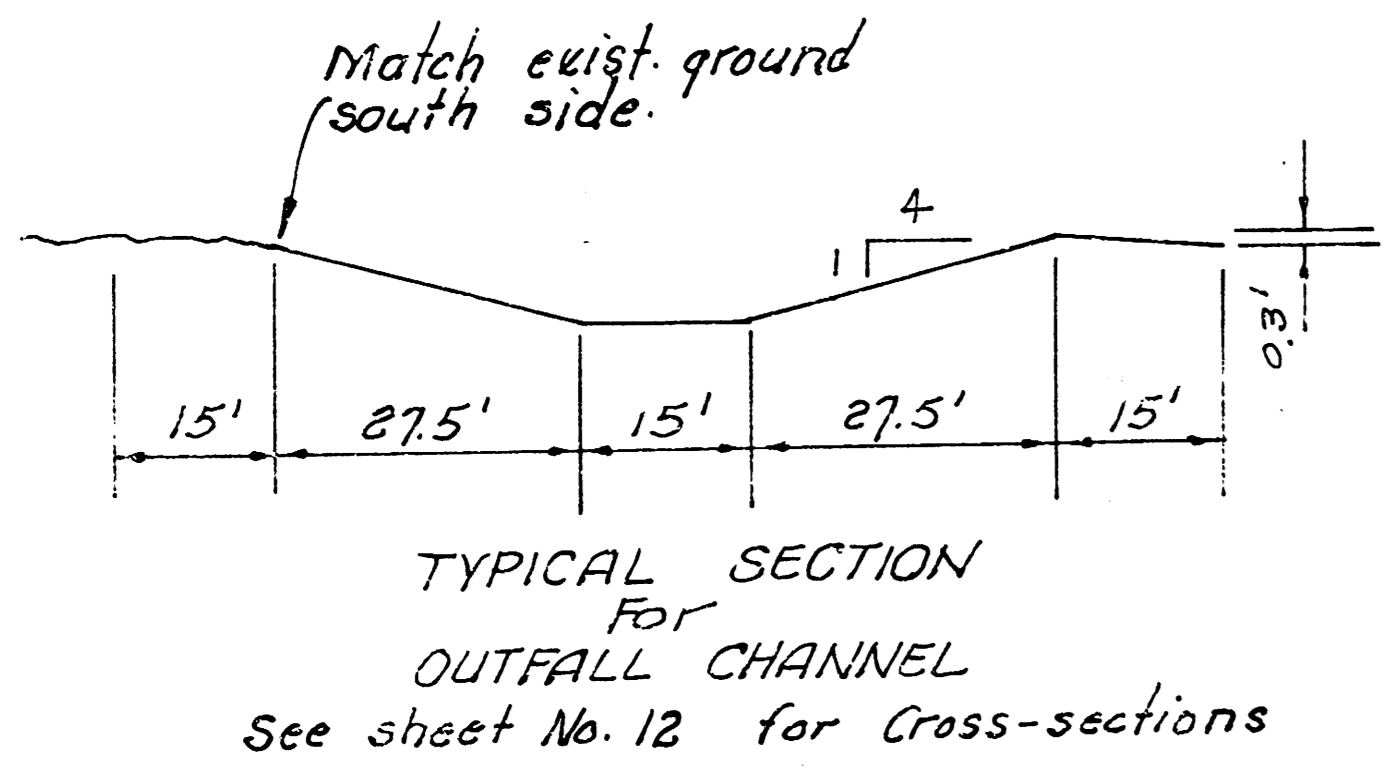


SCALE 1" = 200'

GENERAL NOTES

- REMOVAL AND REPLACEMENT OF ASPHALT PAVEMENT WILL BE PAID FOR AT THE UNIT PRICE BID PER LIN. FT. OF ASPHALT PAVEMENT REMOVED AND REPLACED. LIMITS OF PAVEMENT REMOVAL AND REPLACEMENT WILL DEPEND LARGELY ON CONTRACTOR'S CONSTRUCTION OPERATION. LIMITS OF PAVEMENT REMOVAL AND REPLACEMENT SHALL BE APPROVED BY THE FIELD ENGINEER. ANY DAMAGE TO PAVEMENT UN-NECESSARILY CAUSED BY CONTRACTOR'S OPERATIONS SHALL BE REPAIRED BY THE CONTRACTOR AT HIS OWN EXPENSE.
- CHANNEL AND MAINTENANCE BERM BETWEEN BOX CULVERT ON LONGFORD LANE AND BEGINNING OF STORM SEWER SHALL BE SEDED AND MULCHED.
- PART OF THE EXCESS EXCAVATED MATERIAL FROM CHANNEL EXCAVATION AND TRENCH EXCAVATION SHALL BE USED TO FILL DITCHES IN BEDELL RIGHT-OF-WAY FROM HARRY STREET TO BRECKENRIDGE. FILL IN DITCHES SHALL BE COMPACTED TO A DENSITY OF 90% OF STANDARD DENSITY. CONTRACTOR SHALL AREA GRADE THE RIGHT-OF-WAY ON BEDELL, GRAND, BOSTON, BRECKENRIDGE, AND LINDEN SUCH THAT THE STORM WATER WILL DRAIN TO INLETS CONSTRUCTED. THIS WORK WILL NOT BE PAID FOR DIRECTLY AND THE COST OF FILLING DITCHES AND AREA GRADING THE RIGHT-OF-WAY AS PREVIOUSLY DESCRIBED SHALL BE CONSIDERED AS SUBSIDIARY TO THE OTHER ITEMS OF WORK.

B. M. 161.82 City Std. west Parkway
 & Harry 1/4 mile east of Rock Road
 42' W. & 48' S. of 1/4 Sec. cor.



NOTE: Riprap to be grouted Rock riprap.

Sta. 2+50 Install Special Drop Inlet and 38"-12" C.M.P. South with end Section. See sheet No. 8 for Inlet detail. Backfill to be excavated material compacted to original density.

NOTE: Do not disturb Hedge.

Sta. 0+25 to Sta. 1+00 Rock Riprap area as shown. Install toe all around Riprap Area. See sheet No. 8 for Riprap detail.

CAUTION: Exist. 20" A.C. Water main.

Sta. 6+88.0 Remove R.C. Culvert Const. Reinf. Conc. M. H. See sheet No. 10 for M.H. detail. Install 50'-24" R.C.P. South Install 20'-24" R.C.P. North
 Alternate 24" C.M.P. Fully Paved.

Sta. 11+44 Const. Reinf. Conc. M. H. See sheet No. 10 for M.H. detail. Sta. 0+00.0 For Line No. 2 No. Install 15" R.C.P. Stub E. NE. Plug Stub.
 Alternate 15" C.M.P.

Install 3 Special Drop Inlets with 3'-18" R.C.P. betw. Inlets. See sheet No. 3 for Inlet detail. Ctr. Inlet Flo in 2'-18" = 157.30 Flo out 24" = 156.20 Outside Inlets Flo out 18" = 157.50
 Alternate 18" C.M.P. Alternate 24" C.M.P. Fully paved.

Sta. 1+20.0 Const. Reinf. Conc. M. H. See sheet No. 9 for M.H. detail.

Sta. 0+99.0 Beg. 66" R.C.P.

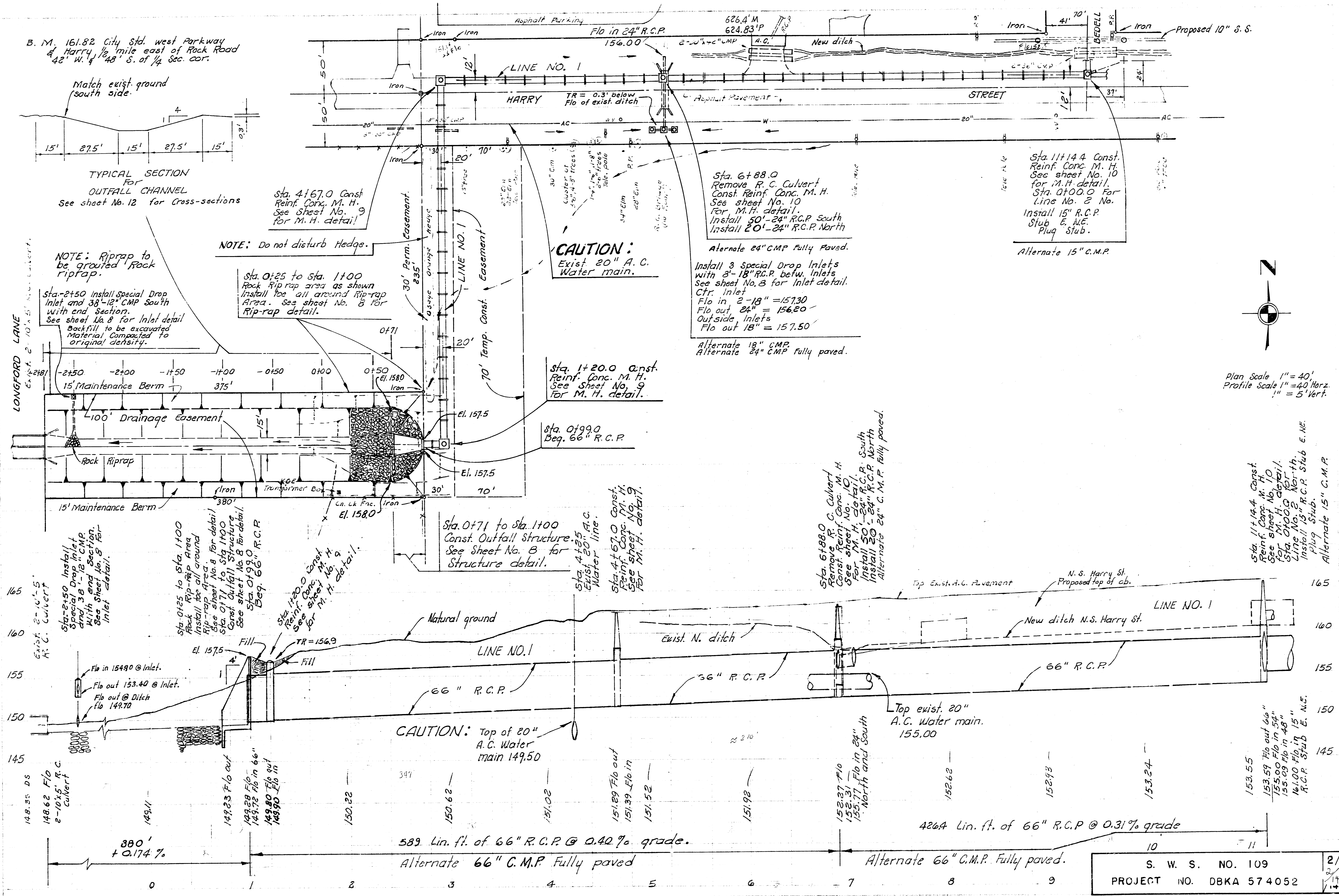
Sta. 0+71 to Sta. 1+00 Const. Outfall structure See sheet No. 8 for Structure detail.

Sta. 4+85 Exist. 20" A.C. Water line.
 Sta. 4+67.0 Const. Reinf. Conc. M. H. See sheet No. 9 for M.H. detail.

Sta. 6+88.0 C. Culvert Remove R.C. Culvert Const. Reinf. Conc. M. H. See sheet No. 10 for M.H. detail. Install 50'-24" R.C.P. South Install 20'-24" R.C.P. North Alternate 24" C.M.P. Fully paved.

Plan Scale 1" = 40'
 Profile Scale 1" = 5' Vert.

Sta. 11+44 Const. Reinf. Conc. M. H. See sheet No. 10 for M.H. detail. Sta. 0+00.0 For Line No. 2 No. Install 15" R.C.P. Stub E. NE. Plug Stub. Alternate 15" C.M.P.



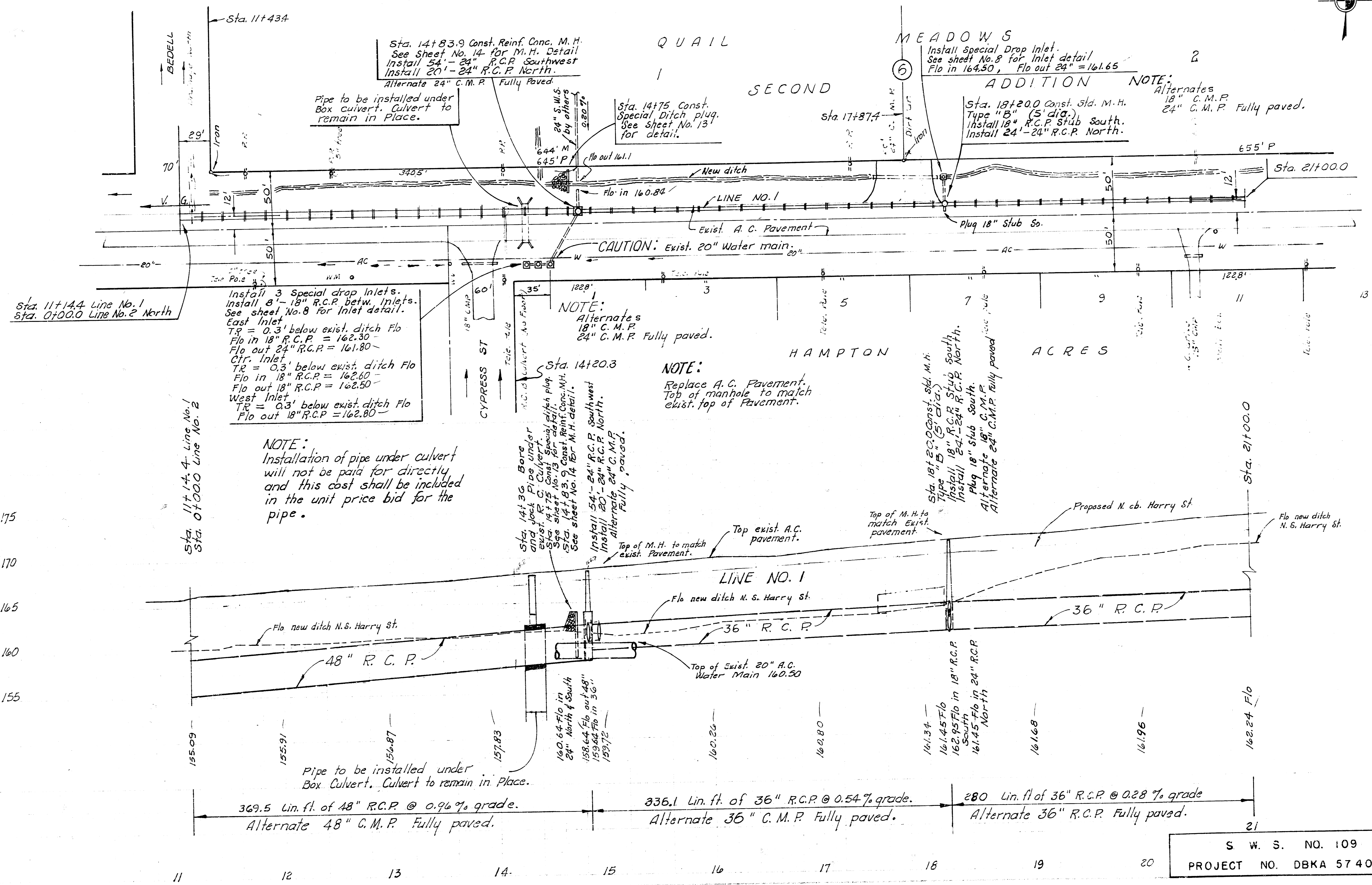
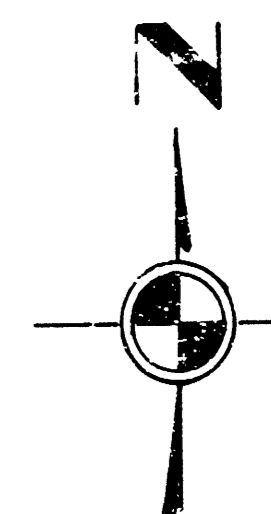
CAUTION: Top of 20" A.C. Water main 149.50

Top exist. 20" A.C. water main. 155.00

380' + 0.174%
 589 Lin. ft. of 66" R.C.P. @ 0.40% grade.
 Alternate 66" C.M.P. Fully paved

4264 Lin. ft. of 66" R.C.P. @ 0.31% grade
 Alternate 66" C.M.P. Fully paved.

S. W. S. NO. 109	2/
PROJECT NO. DBKA 574052	1/



Sta. 11+14.4 Line No. 1
Sta. 0+00.0 Line No. 2 North

Sta. 11+14.4 Line No. 1
Sta. 0+00.0 Line No. 2

Install 3 Special drop Inlets.
Install 8'-18" R.C.P. betw. Inlets.
See sheet No. 8 for Inlet detail.
East Inlet
TR = 0.3' below exist. ditch Flo
Flo in 18" R.C.P. = 162.30 -
Flo out 24" R.C.P. = 161.80 -
Ctr. Inlet
TR = 0.3' below exist. ditch Flo
Flo in 18" R.C.P. = 162.60 -
Flo out 18" R.C.P. = 162.50 -
West Inlet
TR = 0.3' below exist. ditch Flo
Flo out 18" R.C.P. = 162.80 -

NOTE:
Installation of pipe under culvert
will not be paid for directly
and this cost shall be included
in the unit price bid for the
pipe.

Sta. 14+83.9 Const. Reinf. Conc. M.H.
See Sheet No. 14 for M.H. Detail
Install 54'-24" R.C.P. Southwest
Install 20'-24" R.C.P. North.
Alternate 24" C.M.P. Fully Paved.

Pipe to be installed under
Box culvert. Culvert to remain
in Place.

NOTE:
Alternates
18" C.M.P.
24" C.M.P. Fully paved.

NOTE:
Replace A.C. Pavement.
Top of manhole to match
exist. top of Pavement.

Install Special Drop Inlet.
See sheet No. 8 for Inlet detail
Flo in 164.50, Flo out 24" = 161.65

NOTE:
Alternates
18" C.M.P.
24" C.M.P. Fully paved.

Sta. 18+20.0 Const. Std. M.H.
Type "B" (5' dia.)
Install 18" R.C.P. Stub South.
Install 24'-24" R.C.P. North.

Sta. 18+20.0 Const. Std. M.H.
Type "B" (5' dia.)
Install 18" R.C.P. Stub South.
Install 24'-24" R.C.P. North.
Plug 18" Stub South.
Alternate 24" C.M.P. Fully paved

Sta. 14+20.3
Install 54'-24" R.C.P. southwest
Install 20'-24" R.C.P. North.
Alternate 24" C.M.P.
Fully paved.

Sta. 14+36.0 Bore
and Jack Pipe under
exist. R.C. Culvert.
See sheet No. 13 for detail.
Sta. 14+33.9 Const. Reinf. Conc. M.H.
See sheet No. 14 for M.H. detail.
Alternate 24" C.M.P.
Fully paved.

369.5 Lin. ft. of 48" R.C.P. @ 0.96% grade.
Alternate 48" C.M.P. Fully paved.

336.1 Lin. ft. of 36" R.C.P. @ 0.54% grade.
Alternate 36" C.M.P. Fully paved.

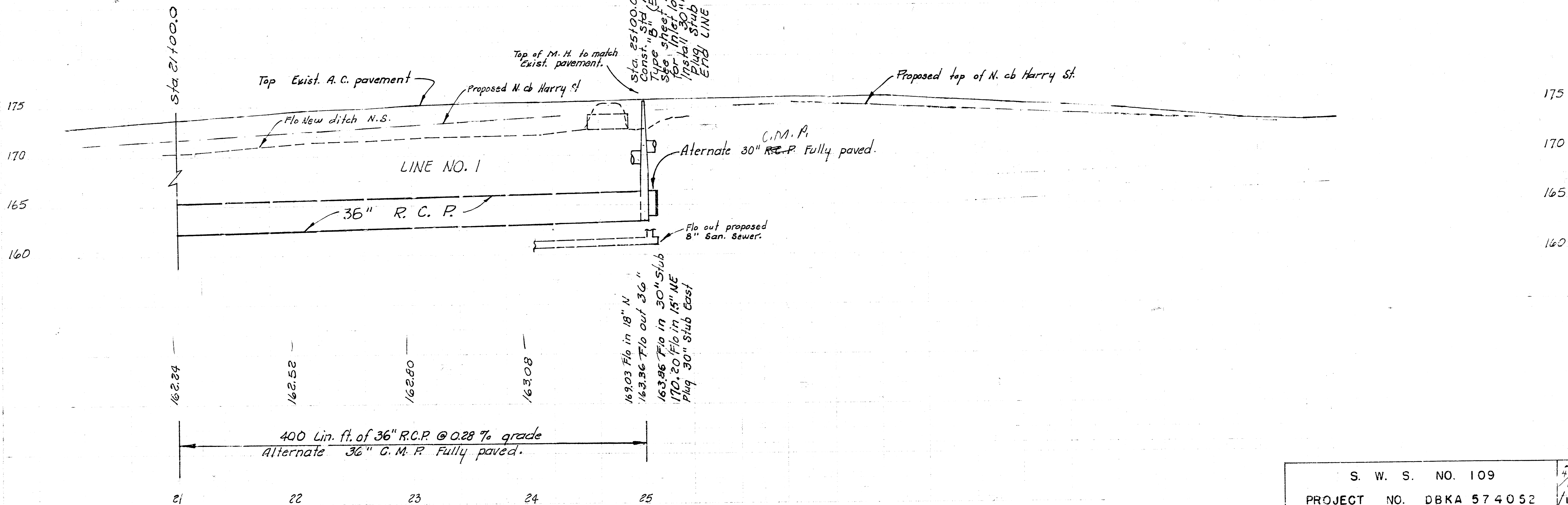
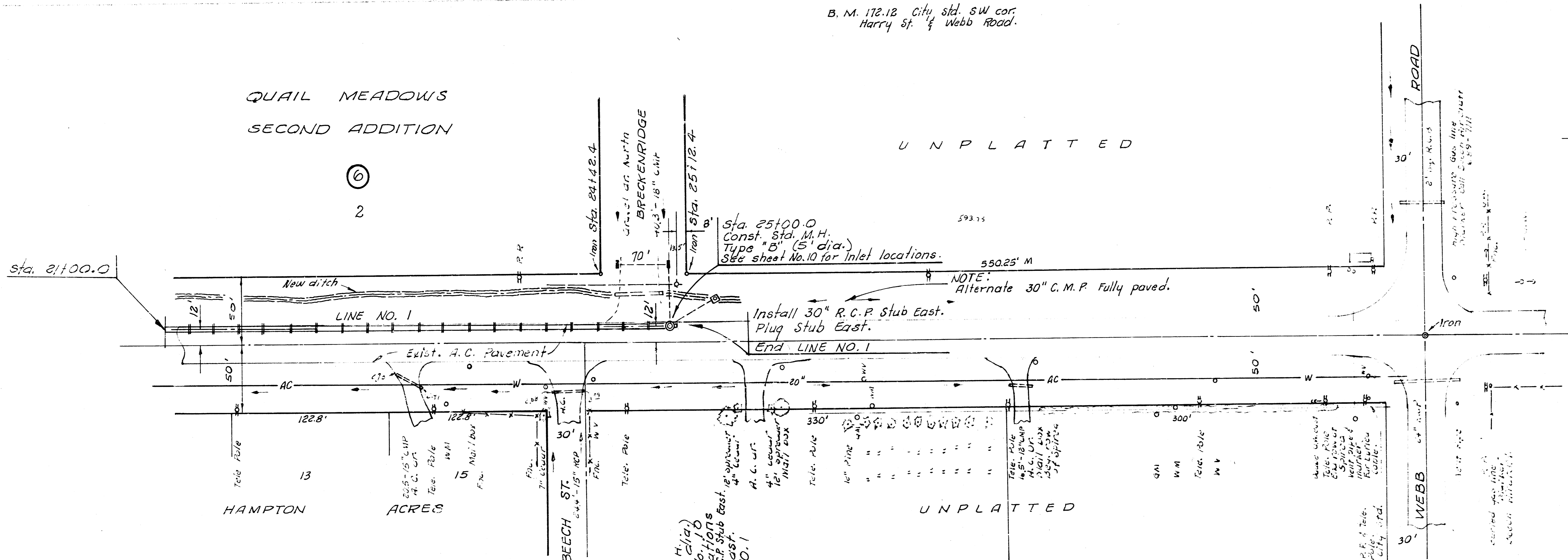
280 Lin. ft. of 36" R.C.P. @ 0.28% grade.
Alternate 36" R.C.P. Fully paved.

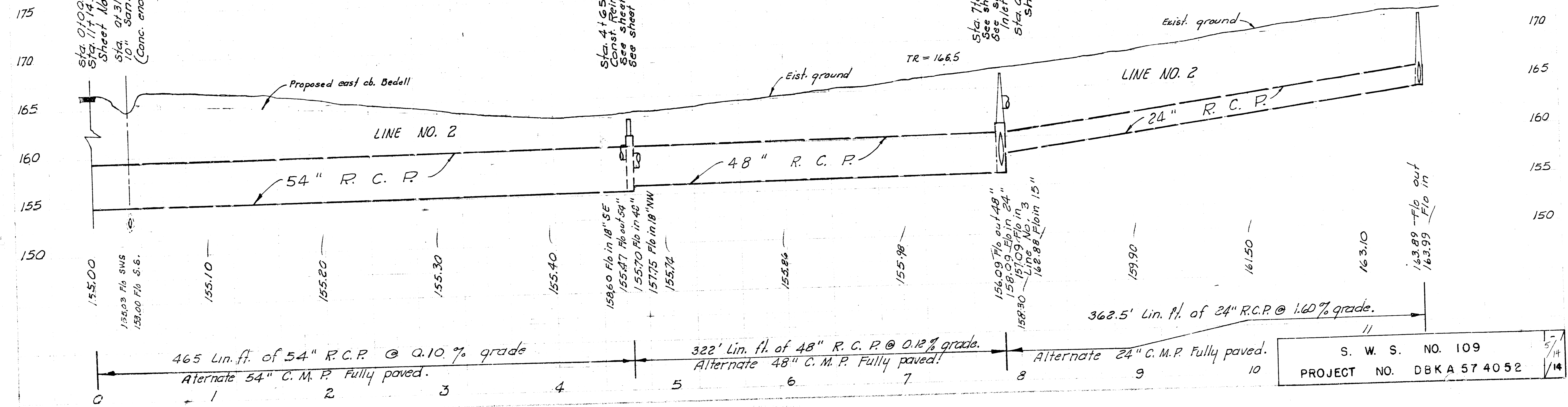
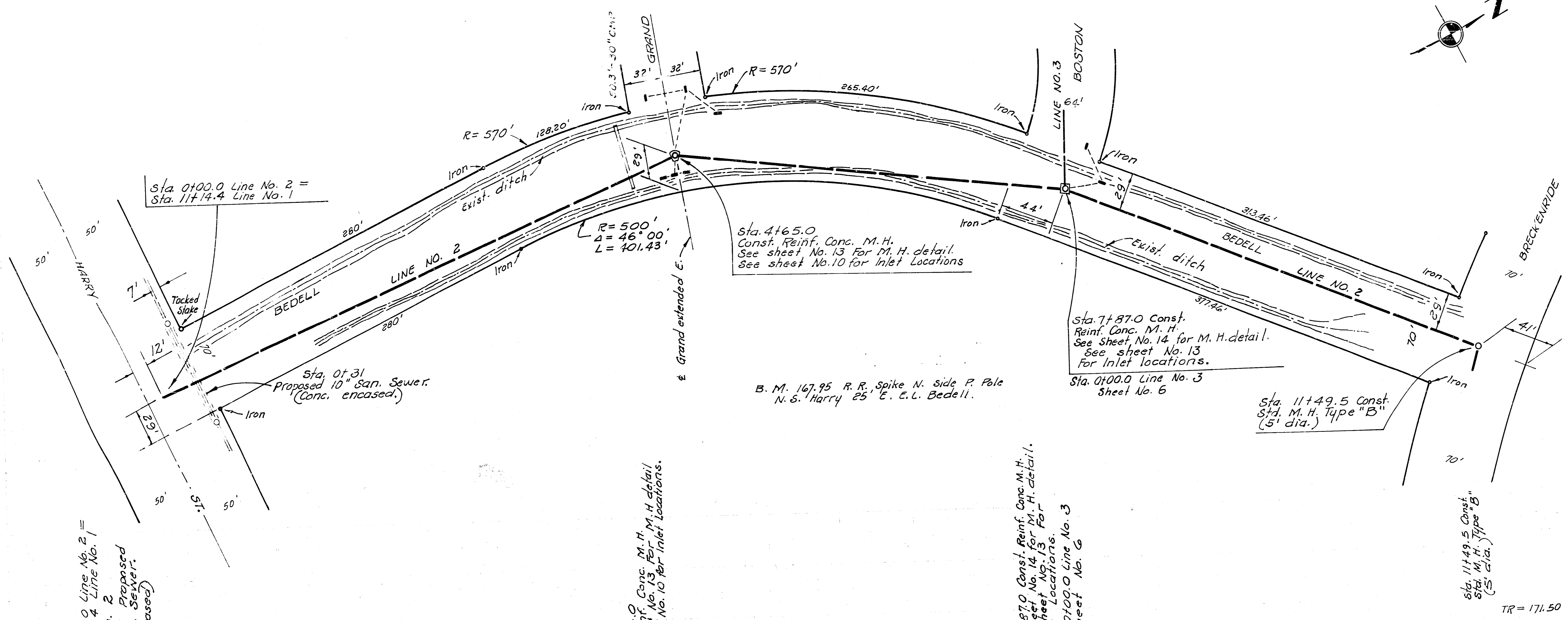
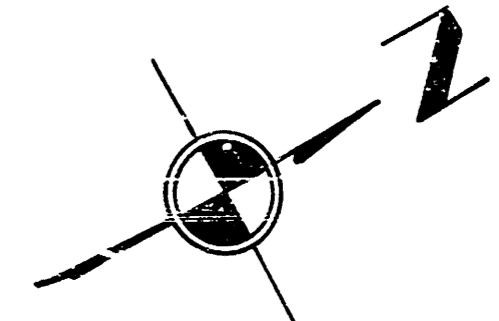
QUAIL MEADOWS
SECOND ADDITION

⑥
2

B. M. 172.12 City Std. SW cor.
Harry St. & Webb Road.

UNPLATTED



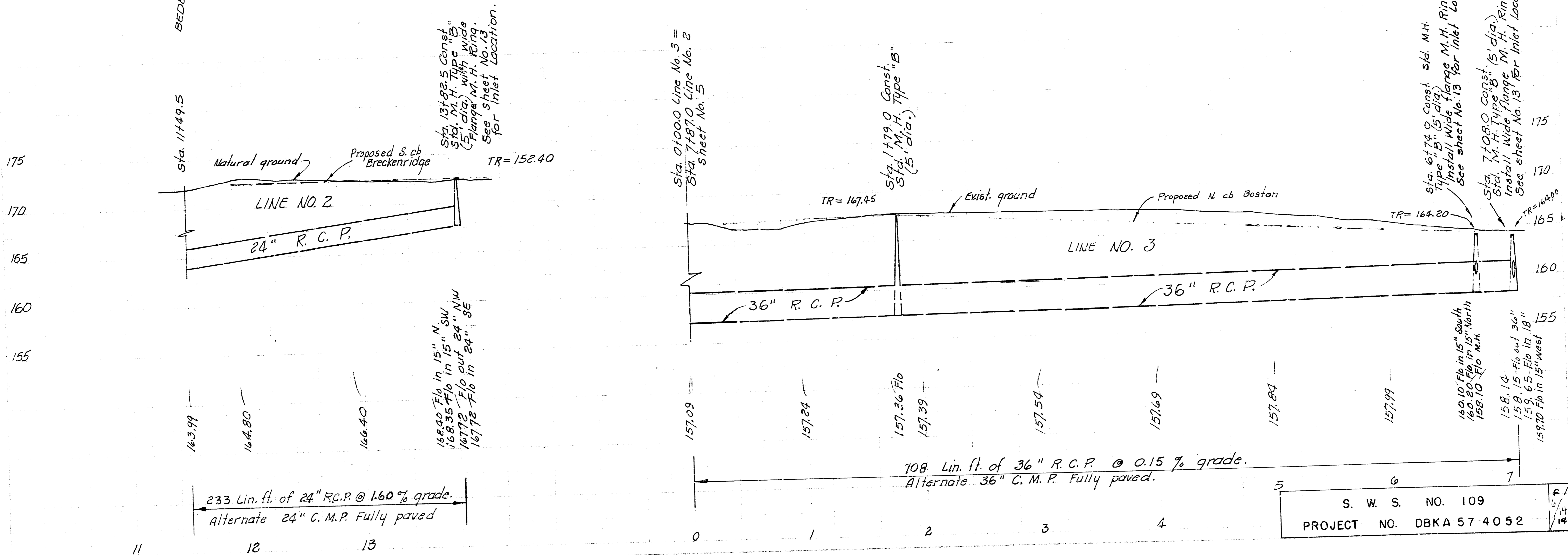
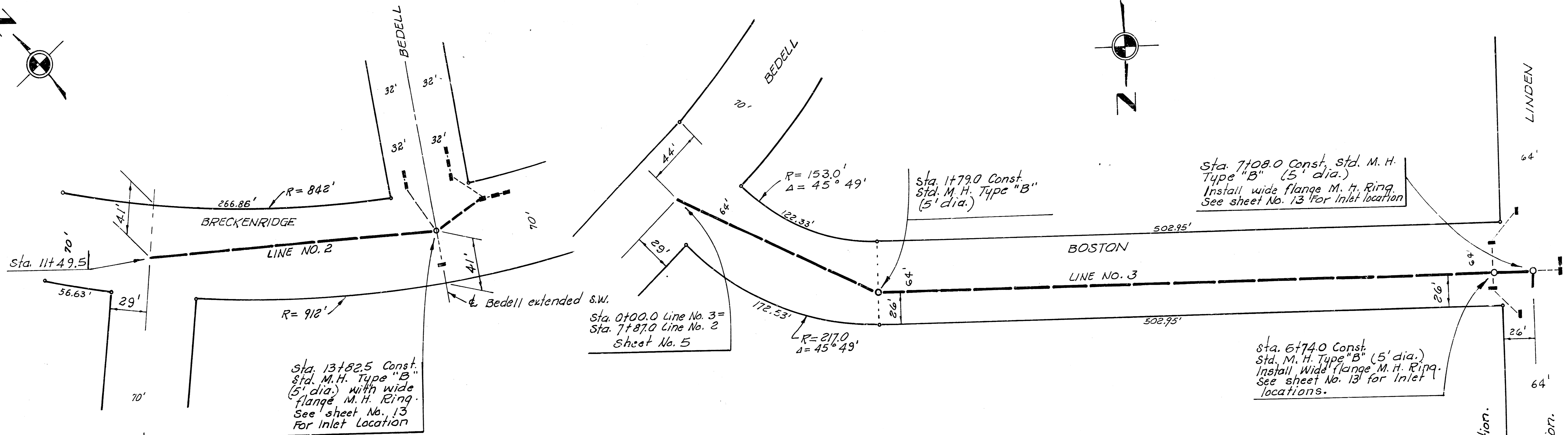
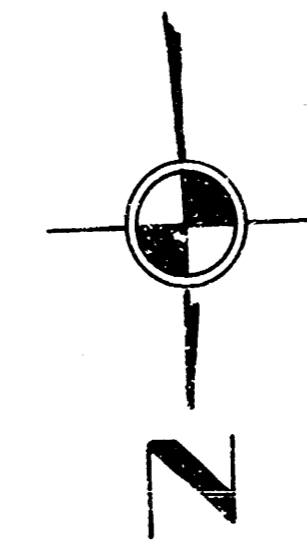
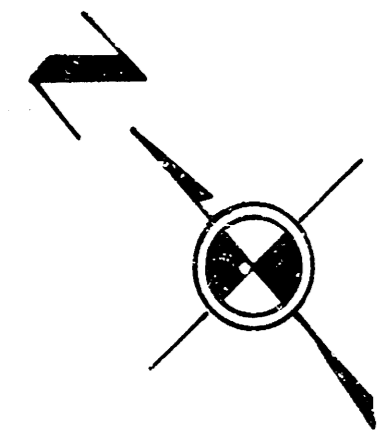


465 Lin. ft. of 54" R.C.P. @ 0.10% grade
 Alternate 54" C.M.P. Fully paved.

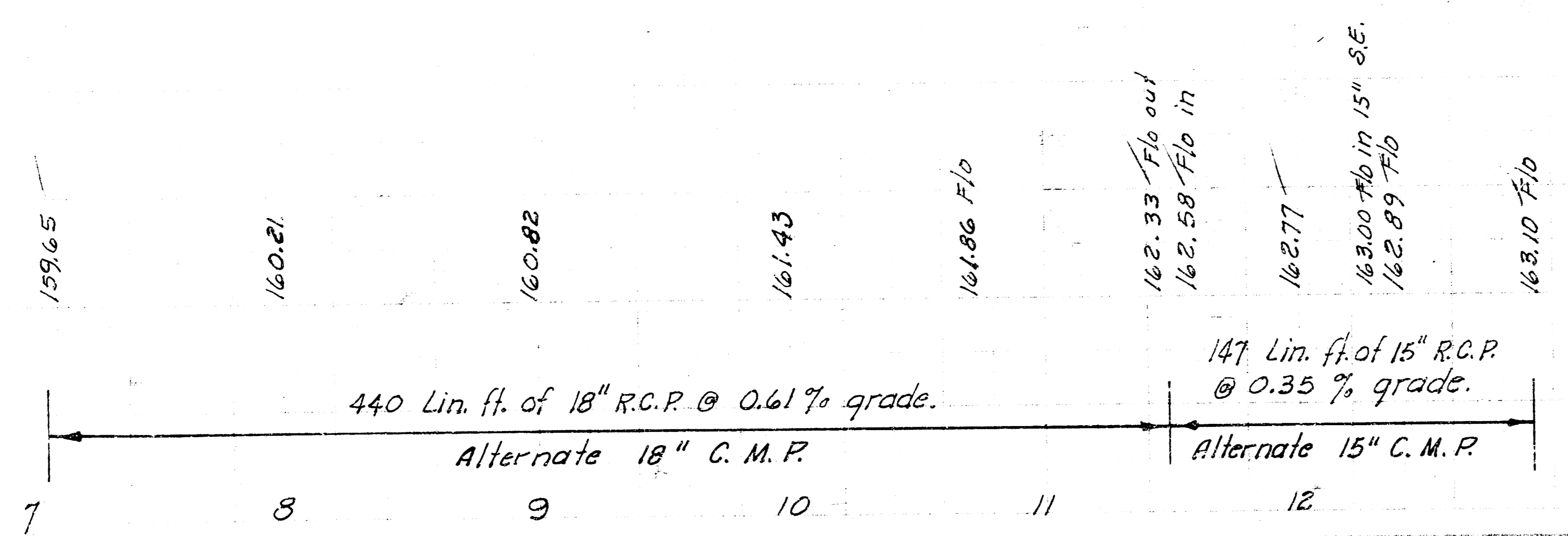
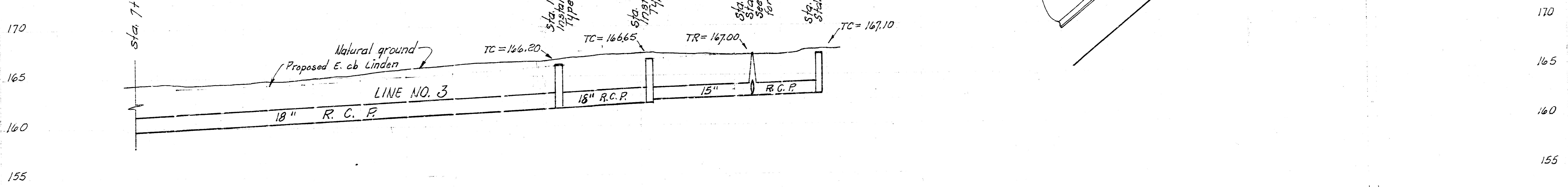
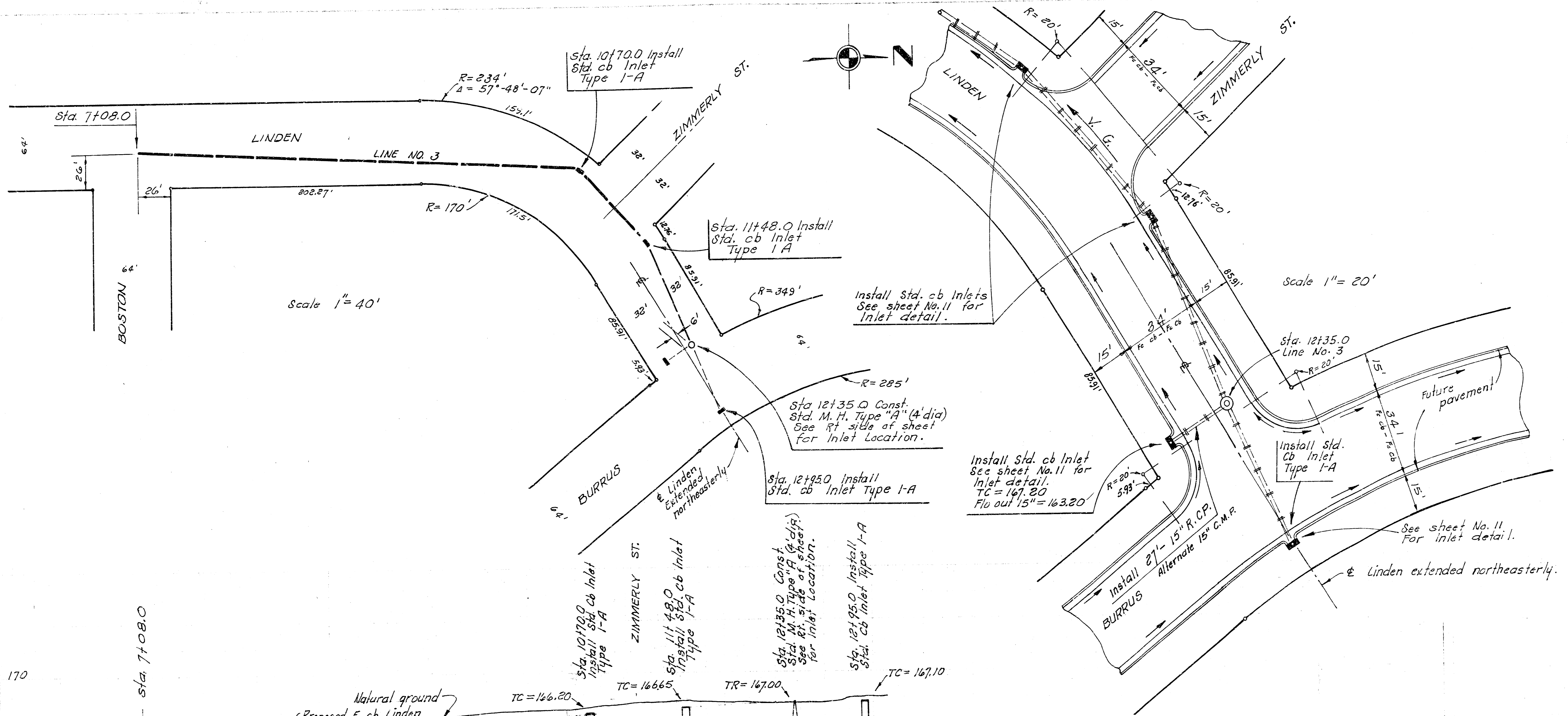
322' Lin. ft. of 48" R.C.P. @ 0.12% grade.
 Alternate 48" C.M.P. Fully paved!

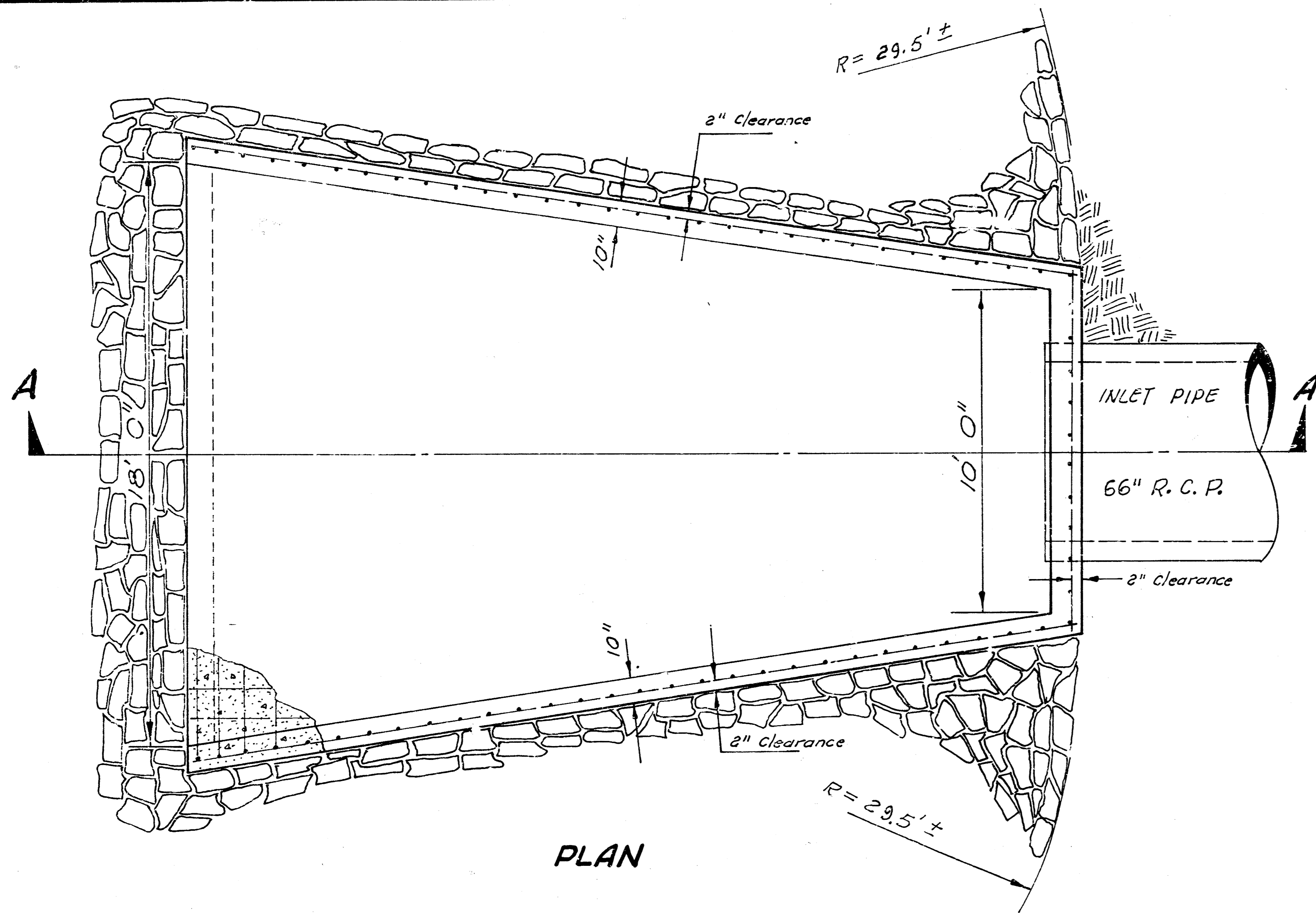
Alternate 24" C.M.P. Fully paved.

S. W. S. NO. 109	5/14
PROJECT NO. DBKA 574052	14

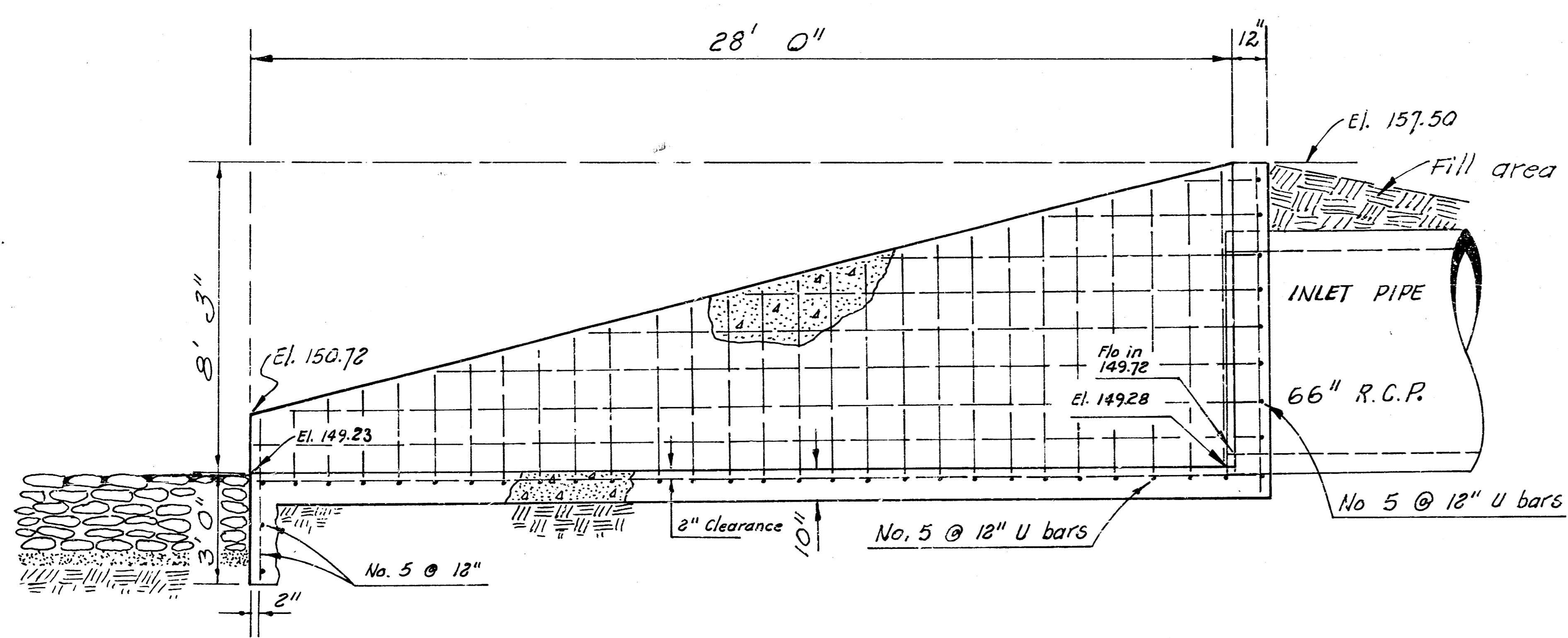


S. W. S. NO. 109
PROJECT NO. DBKA 57 4052





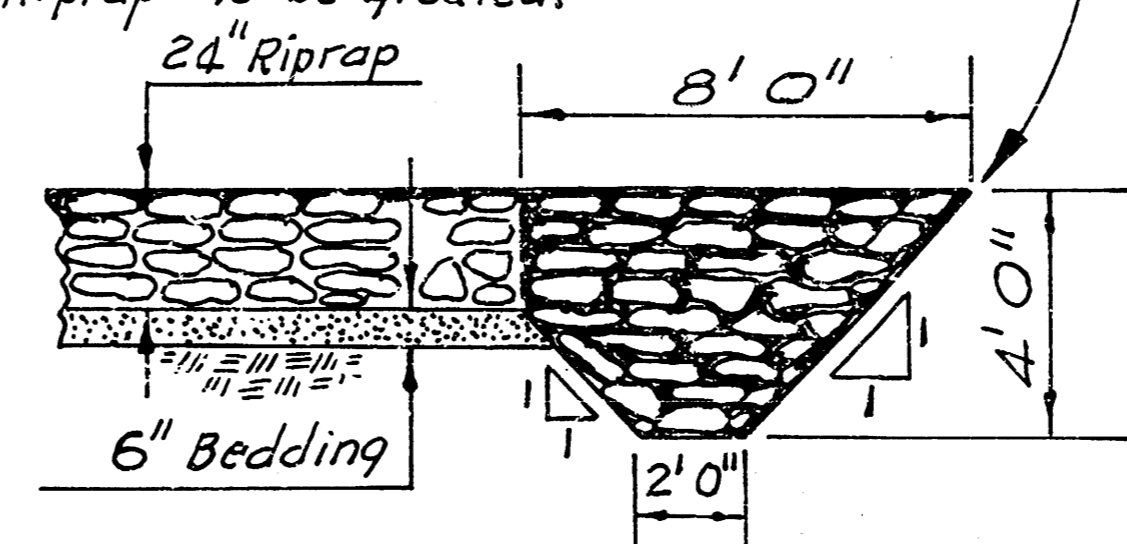
PLAN



**SECTION A-A
OUTFALL STRUCTURE**

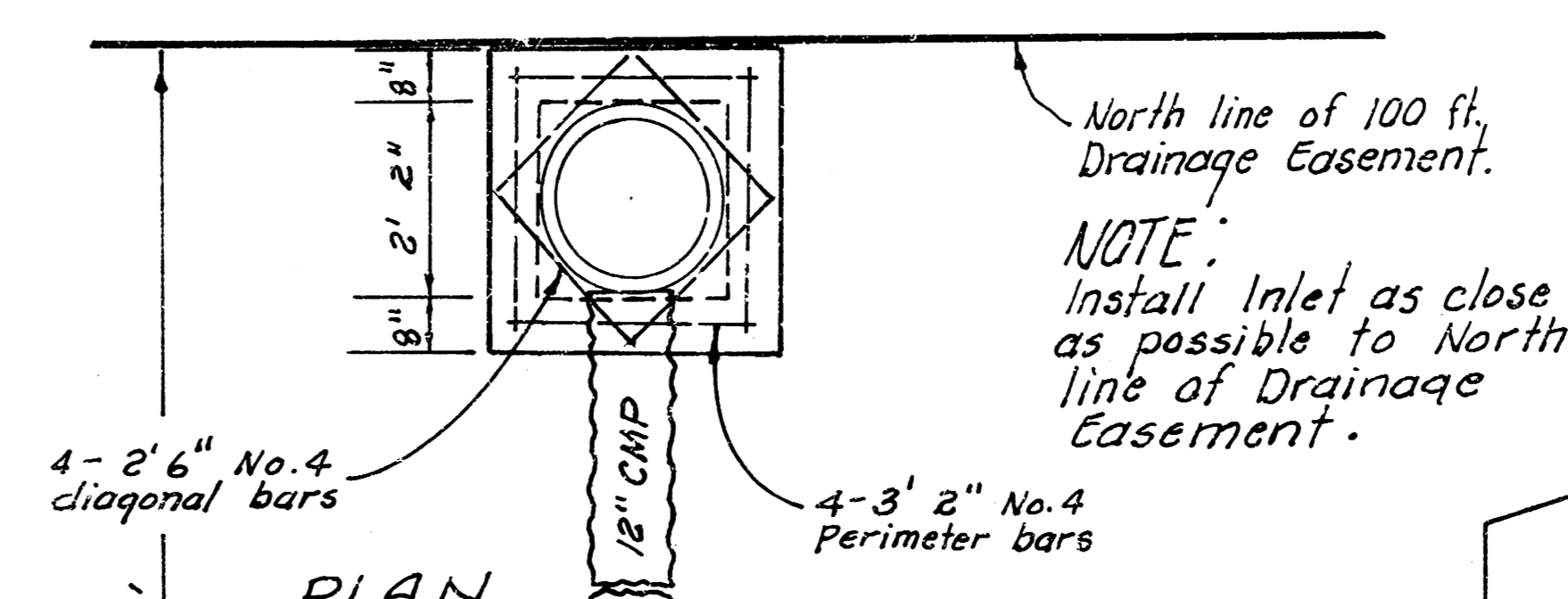
Sta. 0+71 to Sta. 1+00
Line No. 1 Sheet No. 2
Scale 3/8" = 1' 0"

Rock toe to be constructed all around the area to be rock riprapped. Rock toe will not be paid for directly and shall be considered as subsidiary to the price bid per Sq. yard of Rock riprap.
Rock toe to be grouted full depth from bottom to surface. Surface of all remaining Rock Riprap to be grouted.

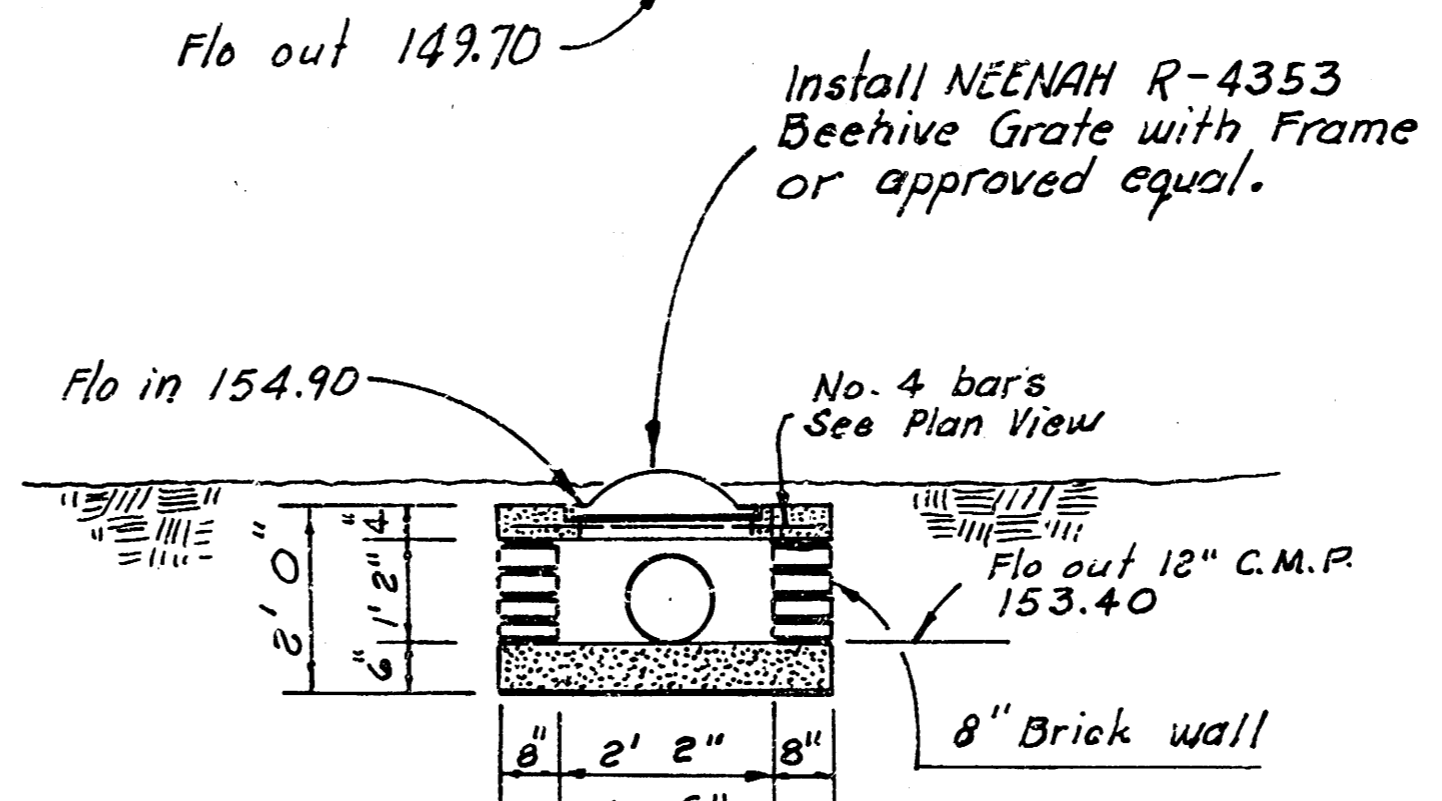


RIPRAP DETAIL

No Scale



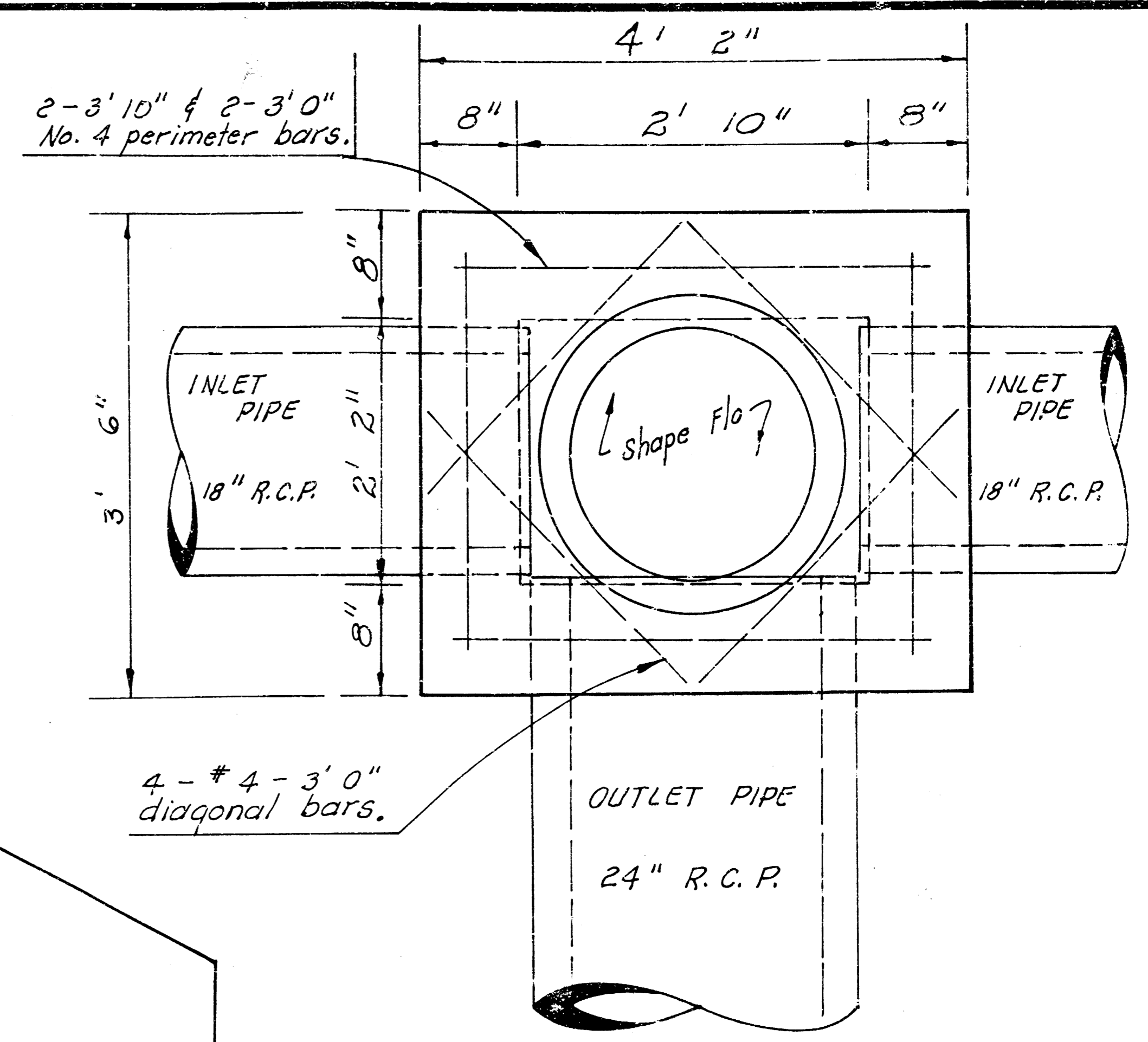
PLAN



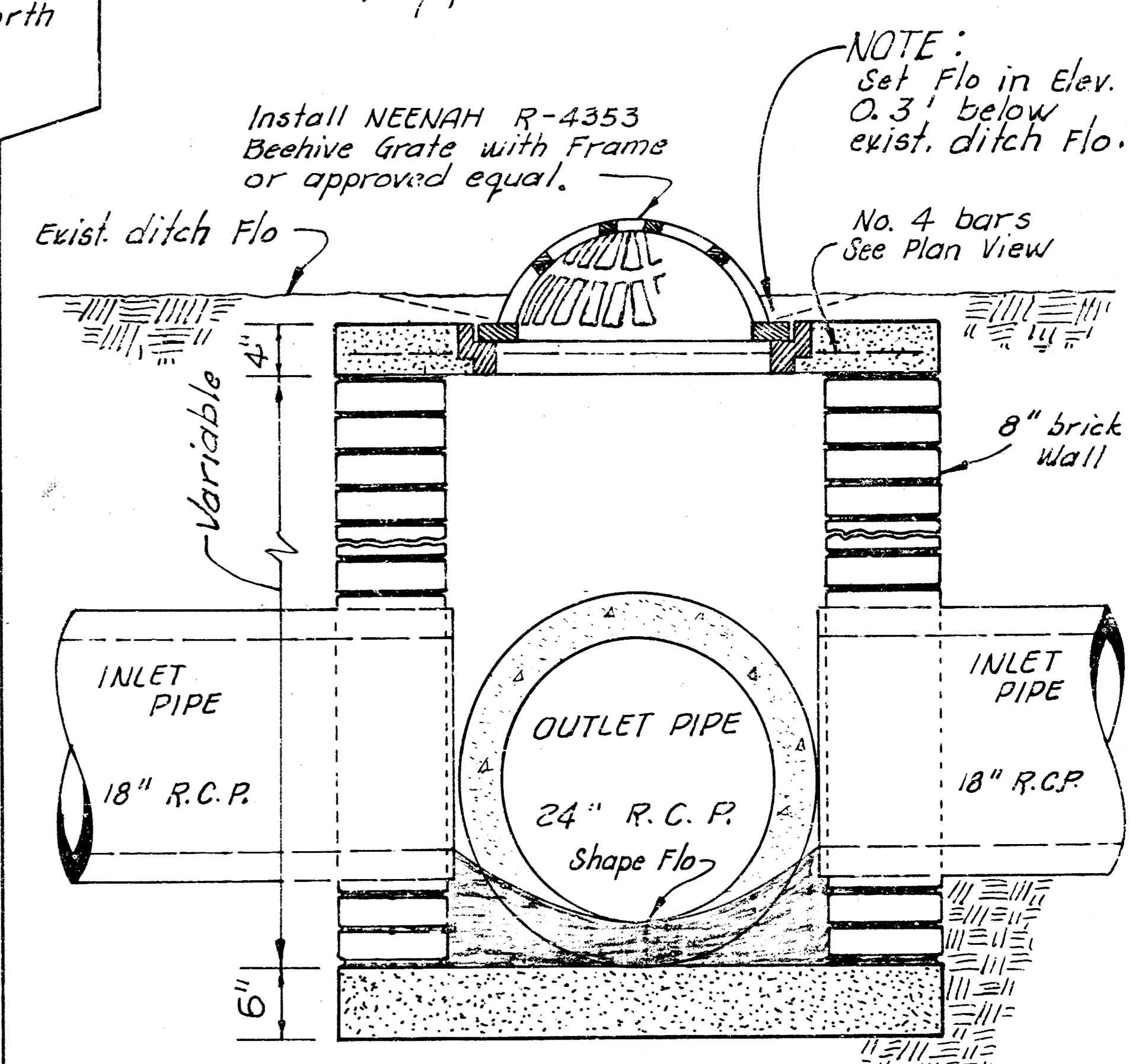
SECTION

SPECIAL DROP INLET

Sta. - 2+50
Sheet No. 2
See Sheet No. 12 For X-Sections
Scale 3/8" = 1' 0"



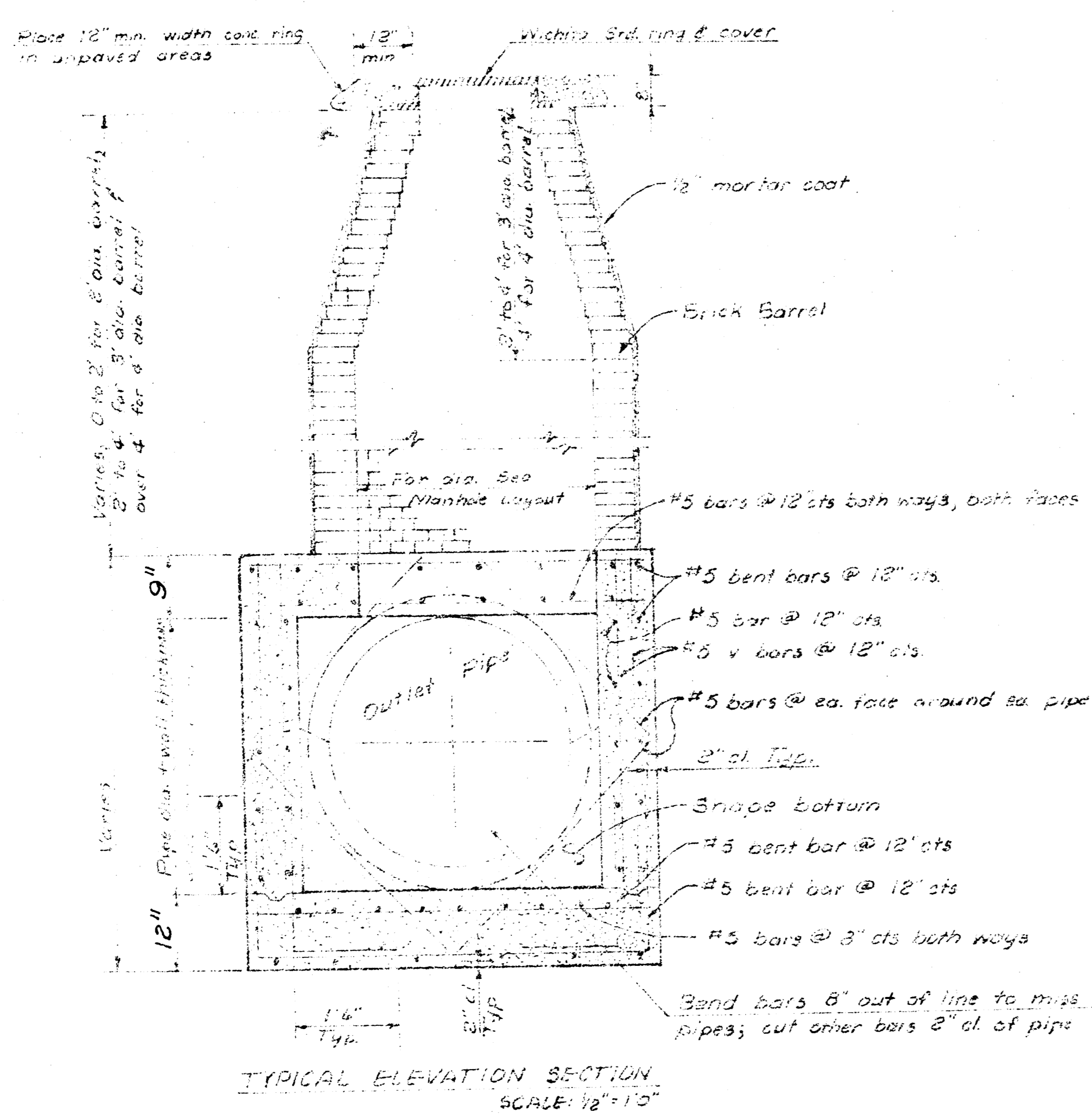
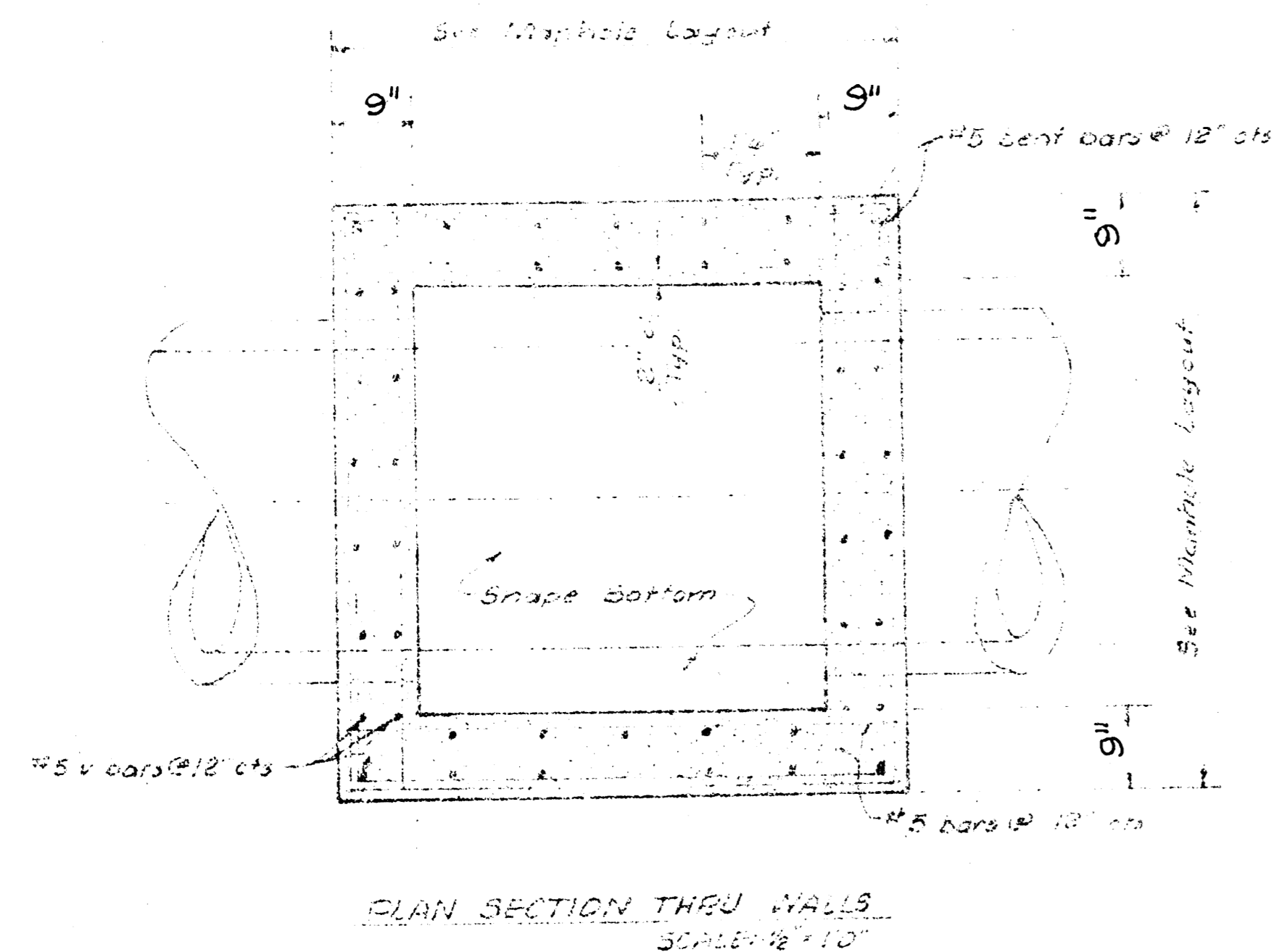
PLAN



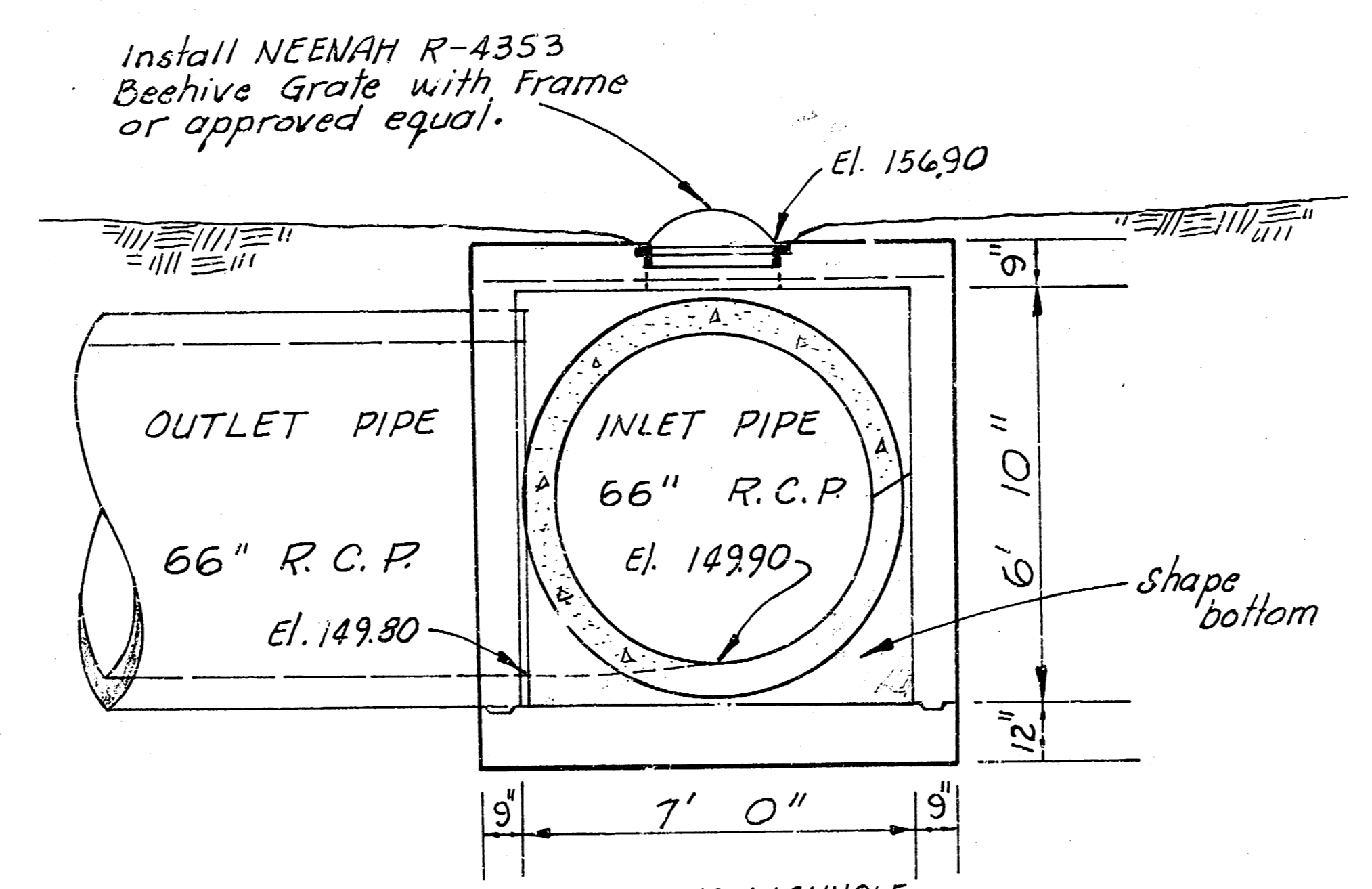
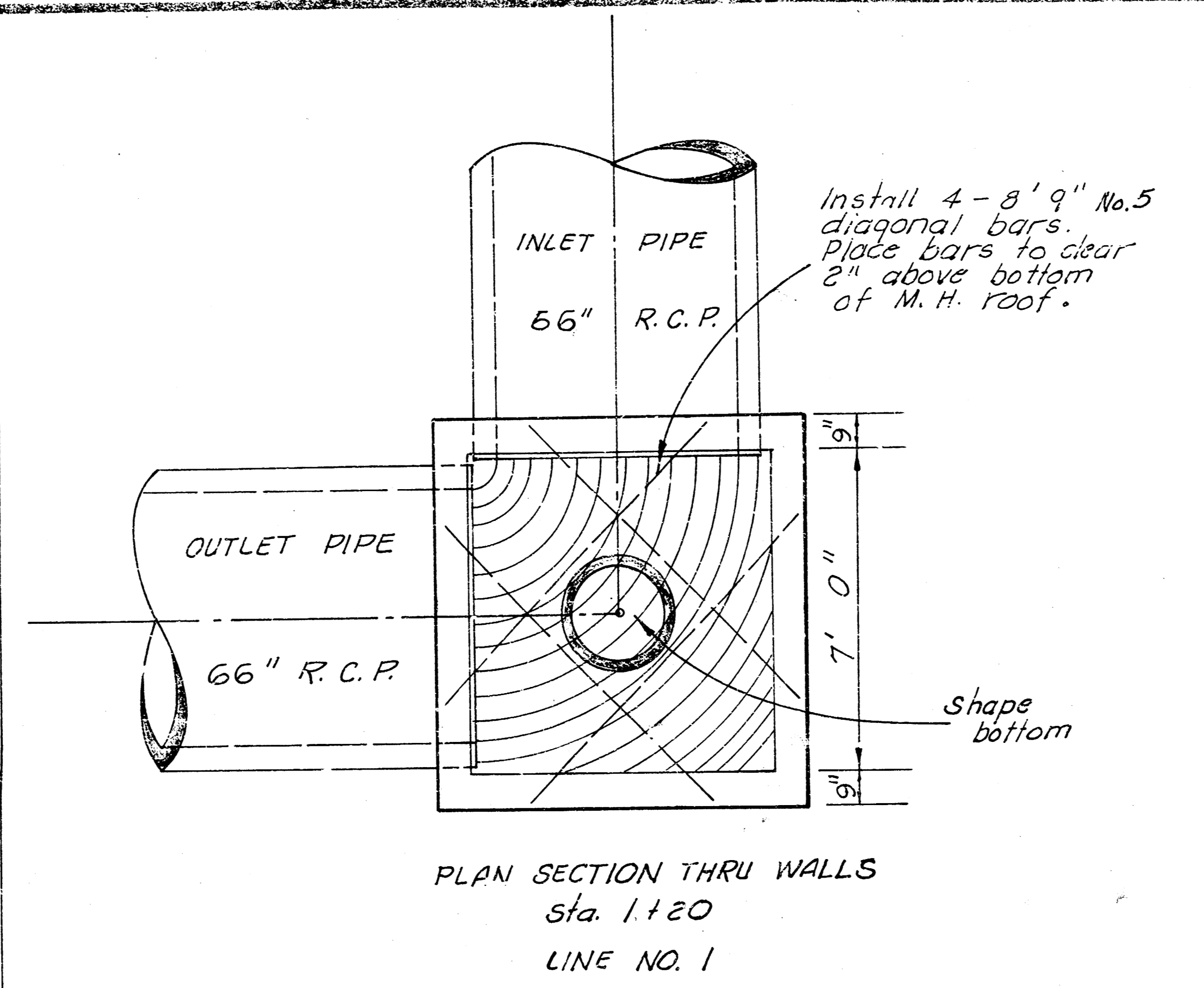
SECTION

SPECIAL DROP INLET

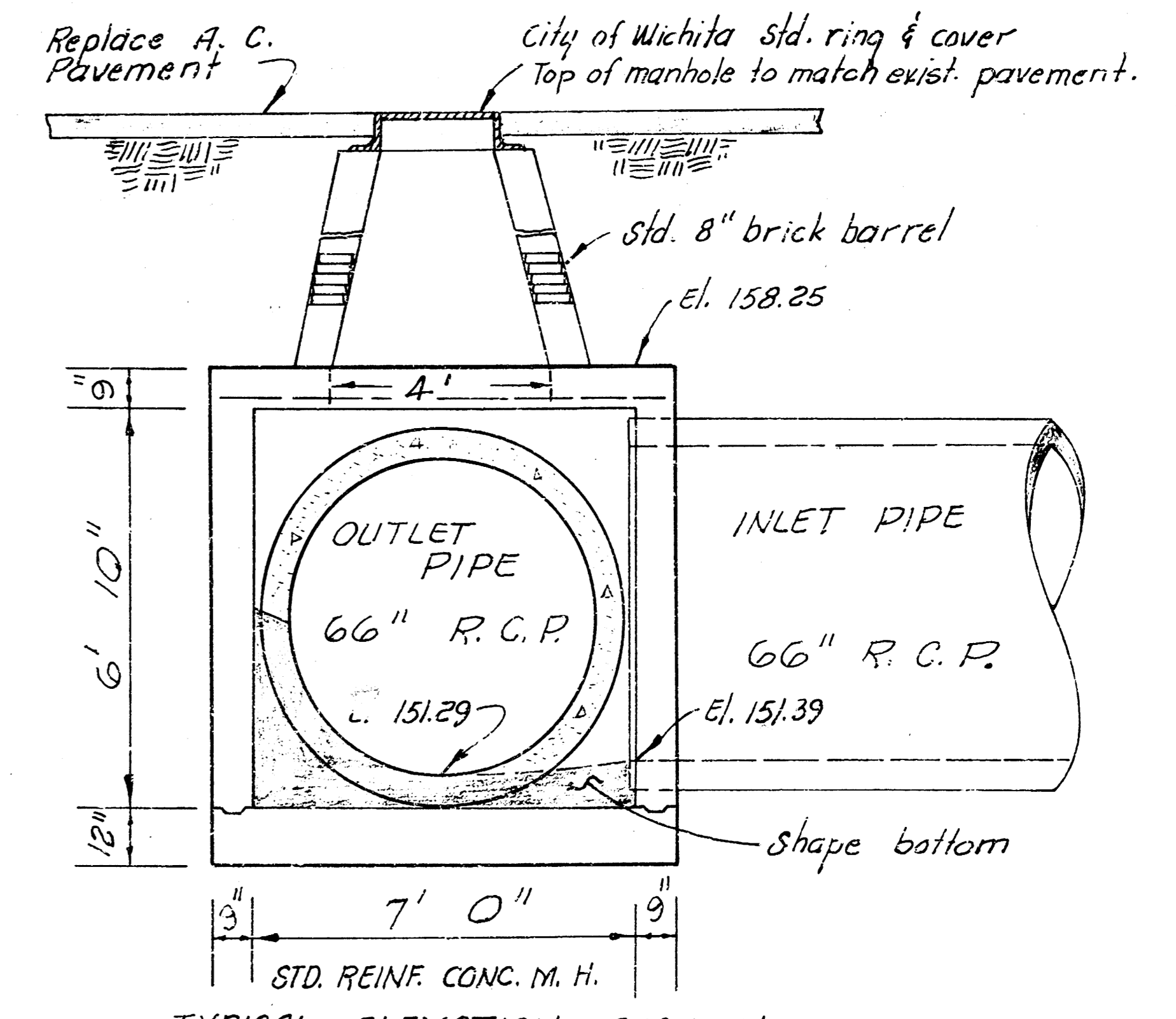
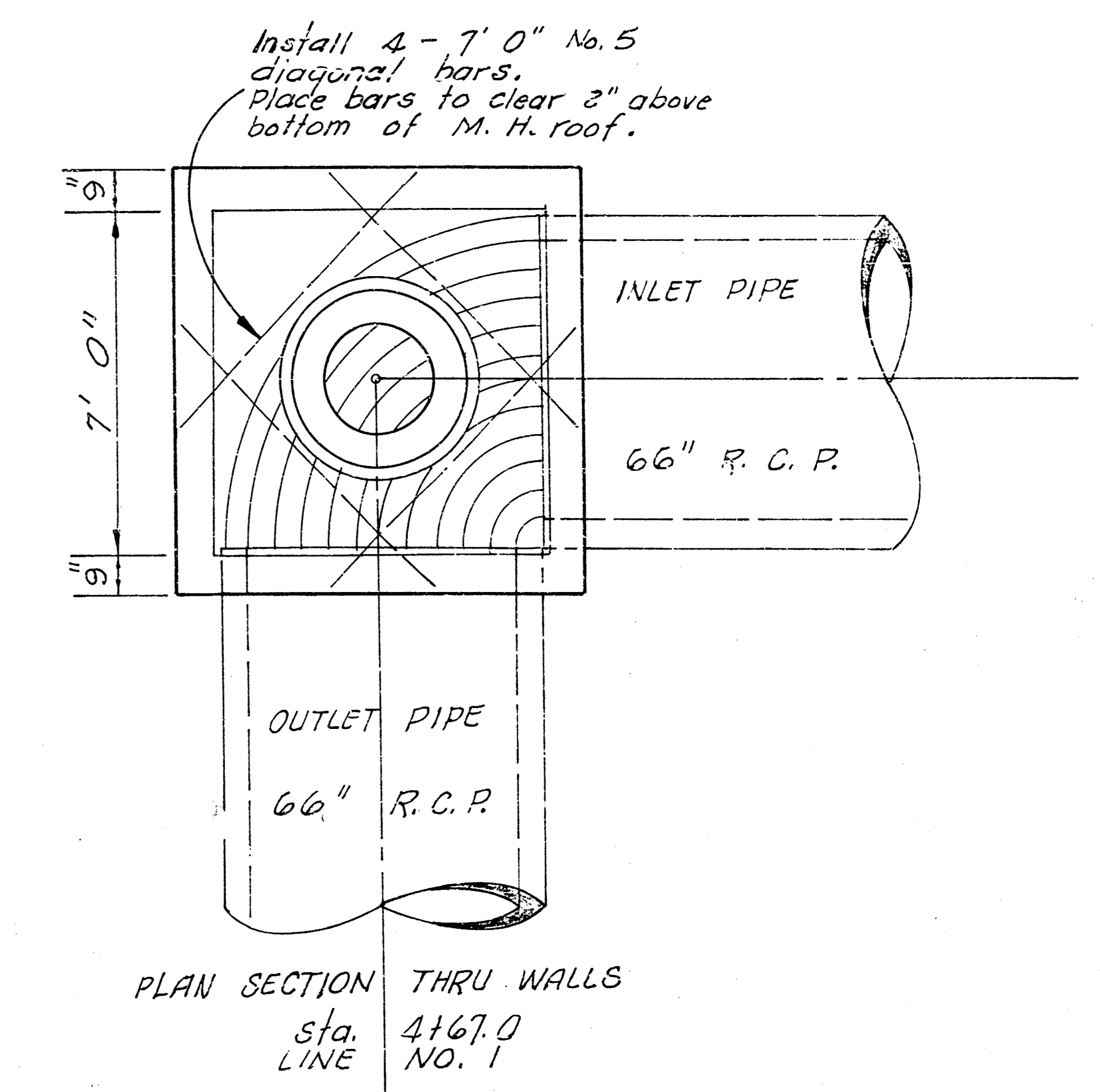
Sta. 6+88.0 Line No. 1 Sheet No. 3
Sta. 14+83.9 Line No. 1 Sheet No. 3
Sta. 18+20.0 Line No. 1 Sheet No. 3
Sta. 23+05.0 Line No. 1 Sheet No. 4
Scale 1" = 1' 0"



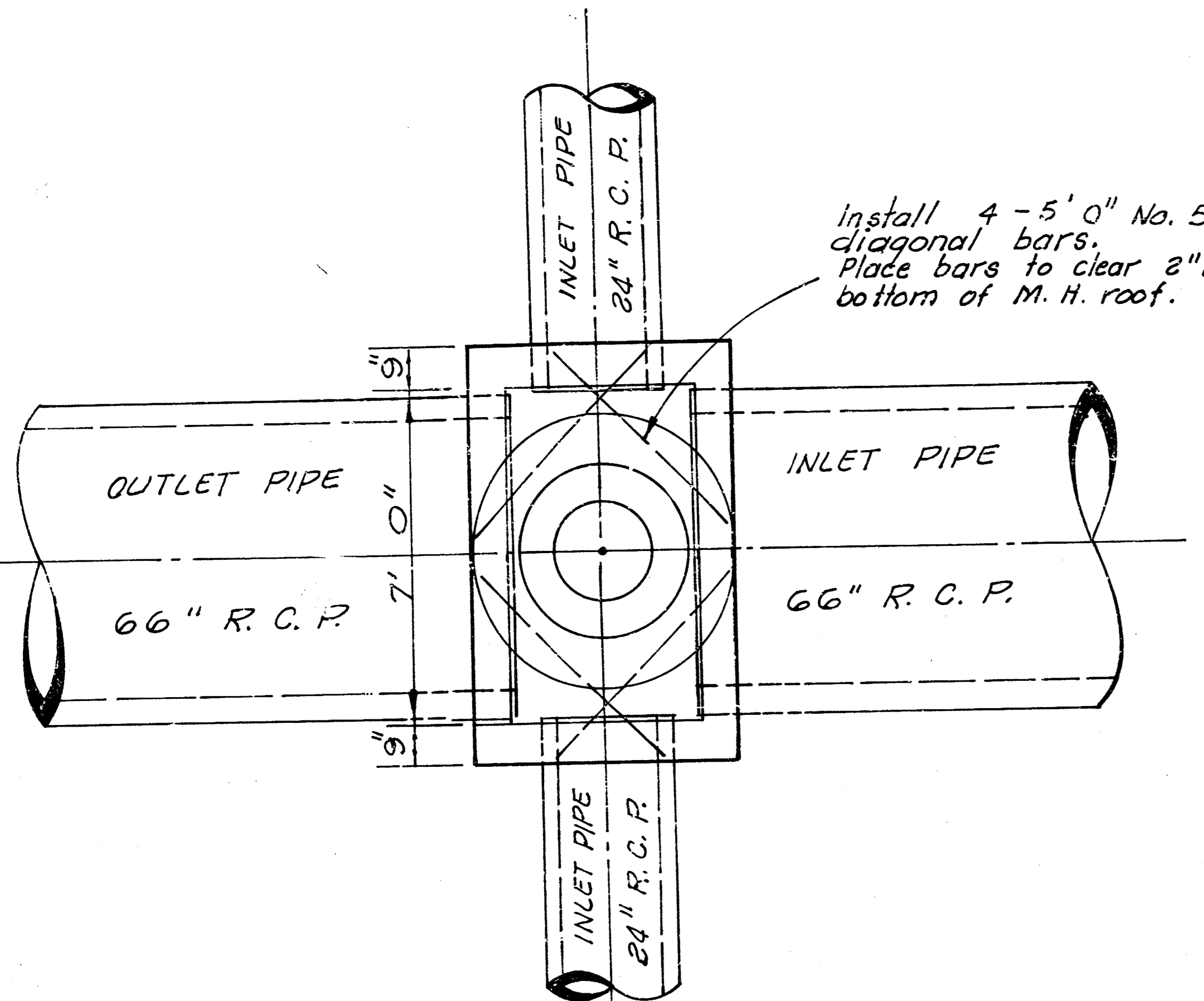
STD. REINF. CONC. MANHOLE DETAILS



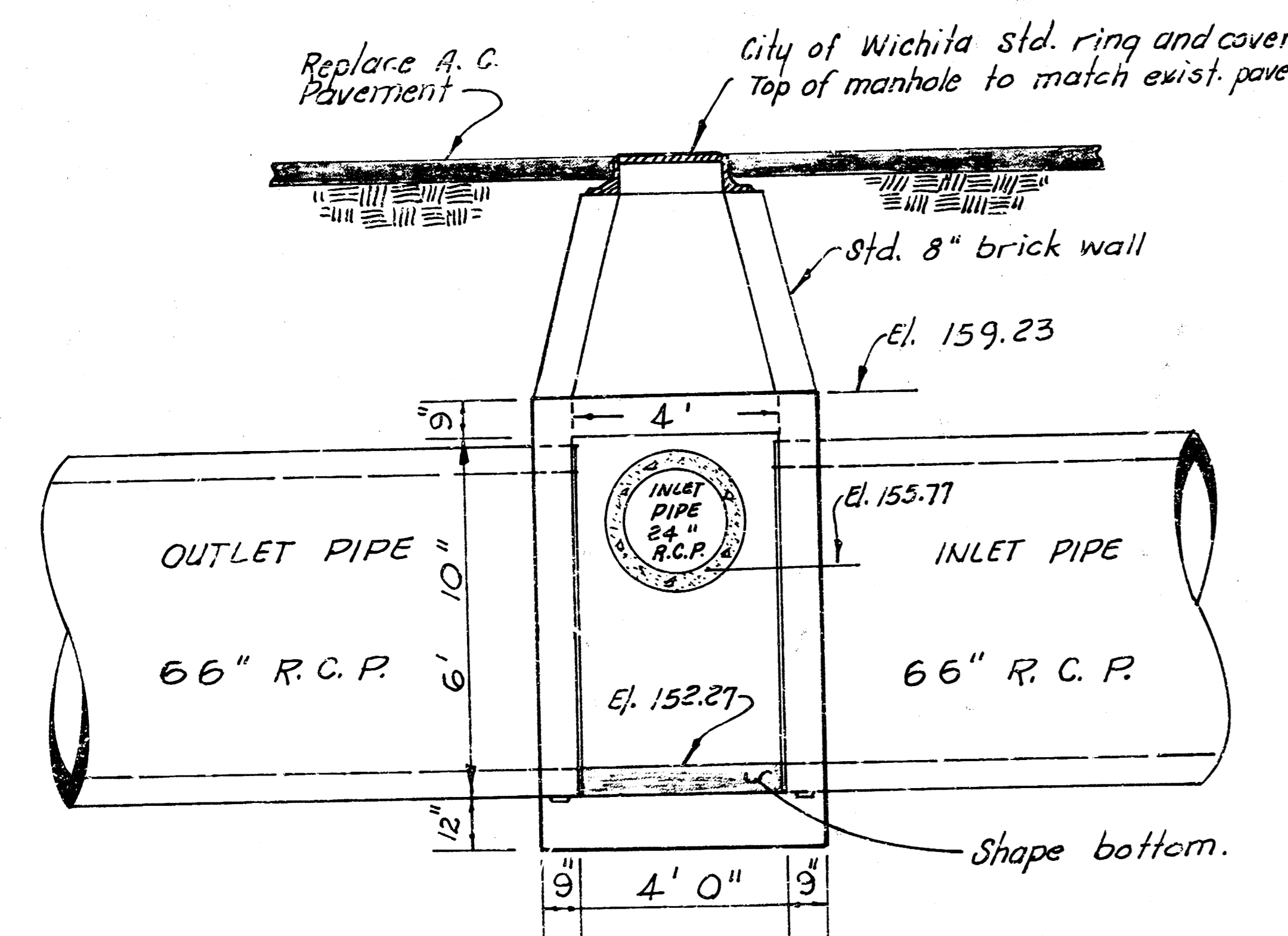
STD. REINF. CONC. MANHOLE
TYPICAL ELEVATION SECTION
Sta. 1+20
LINE NO. 1
Sheet No. 2
Scale 3/8" = 1'-0"



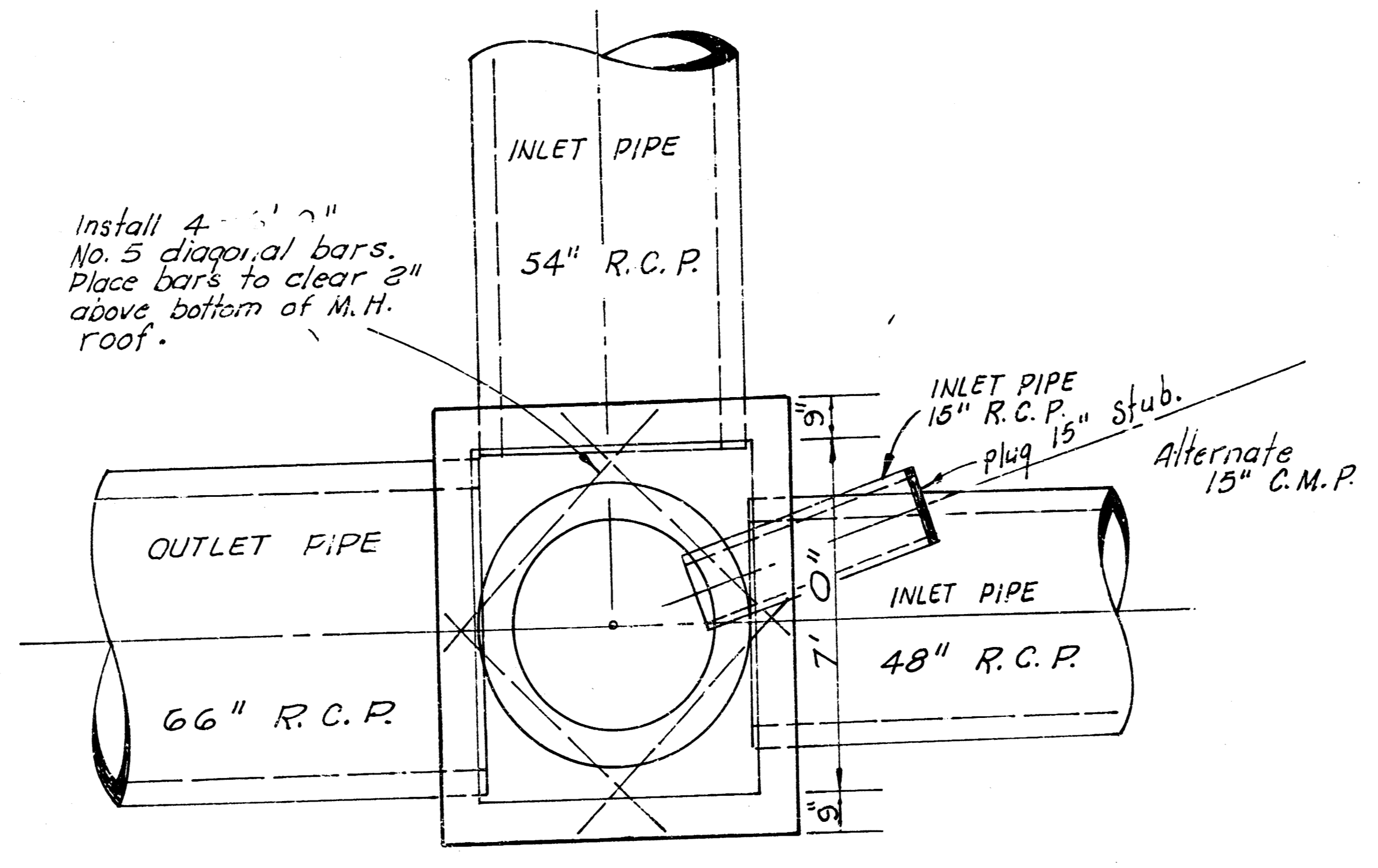
STD. REINF. CONC. M. H.
TYPICAL ELEVATION SECTION
Sta. 4+67.0
LINE NO. 1
SHEET No. 2
Scale 3/8" = 1'-0"



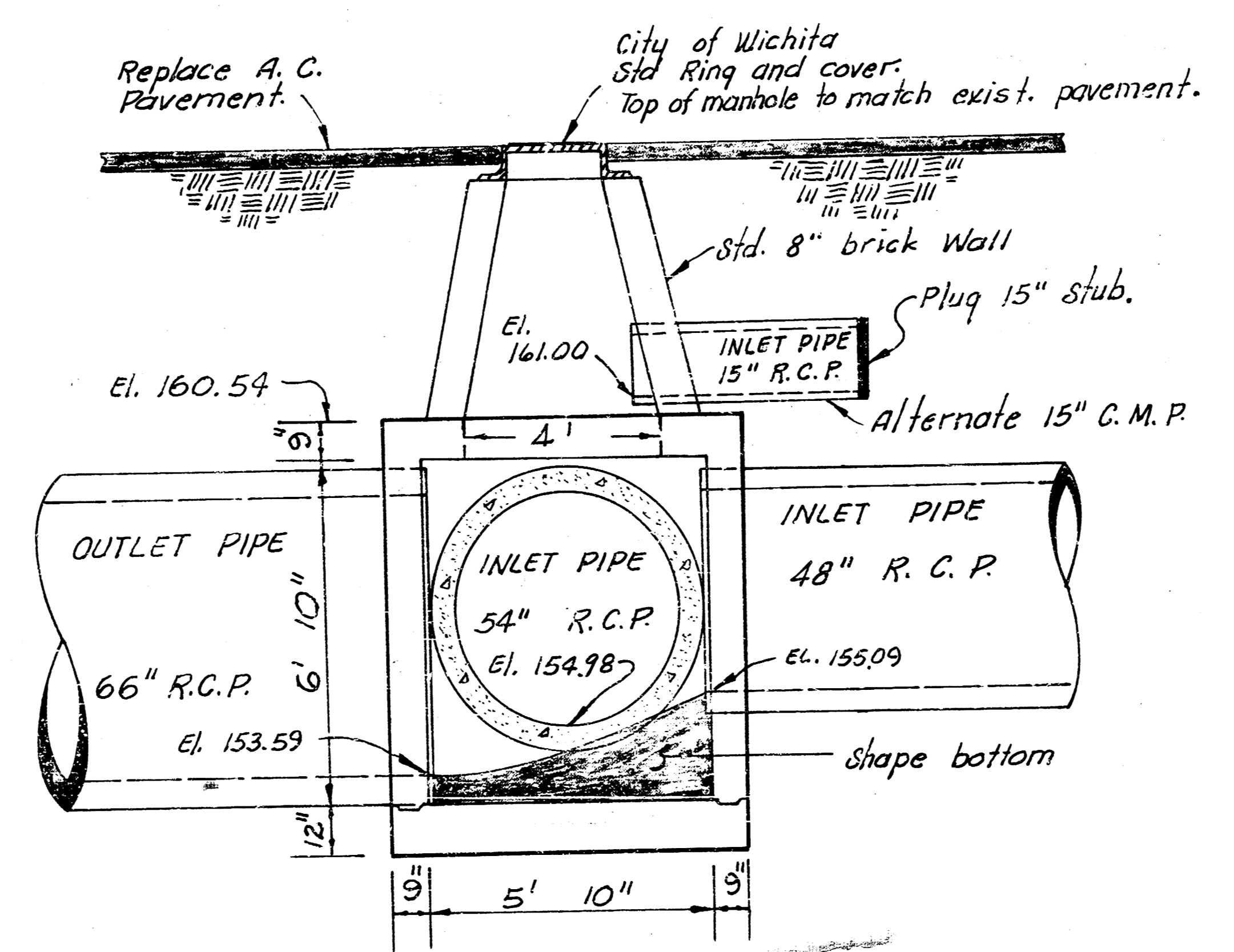
PLAN SECTION THRU WALLS
Sta. 6+88.0
LINE NO. 1
Sheet No. 2



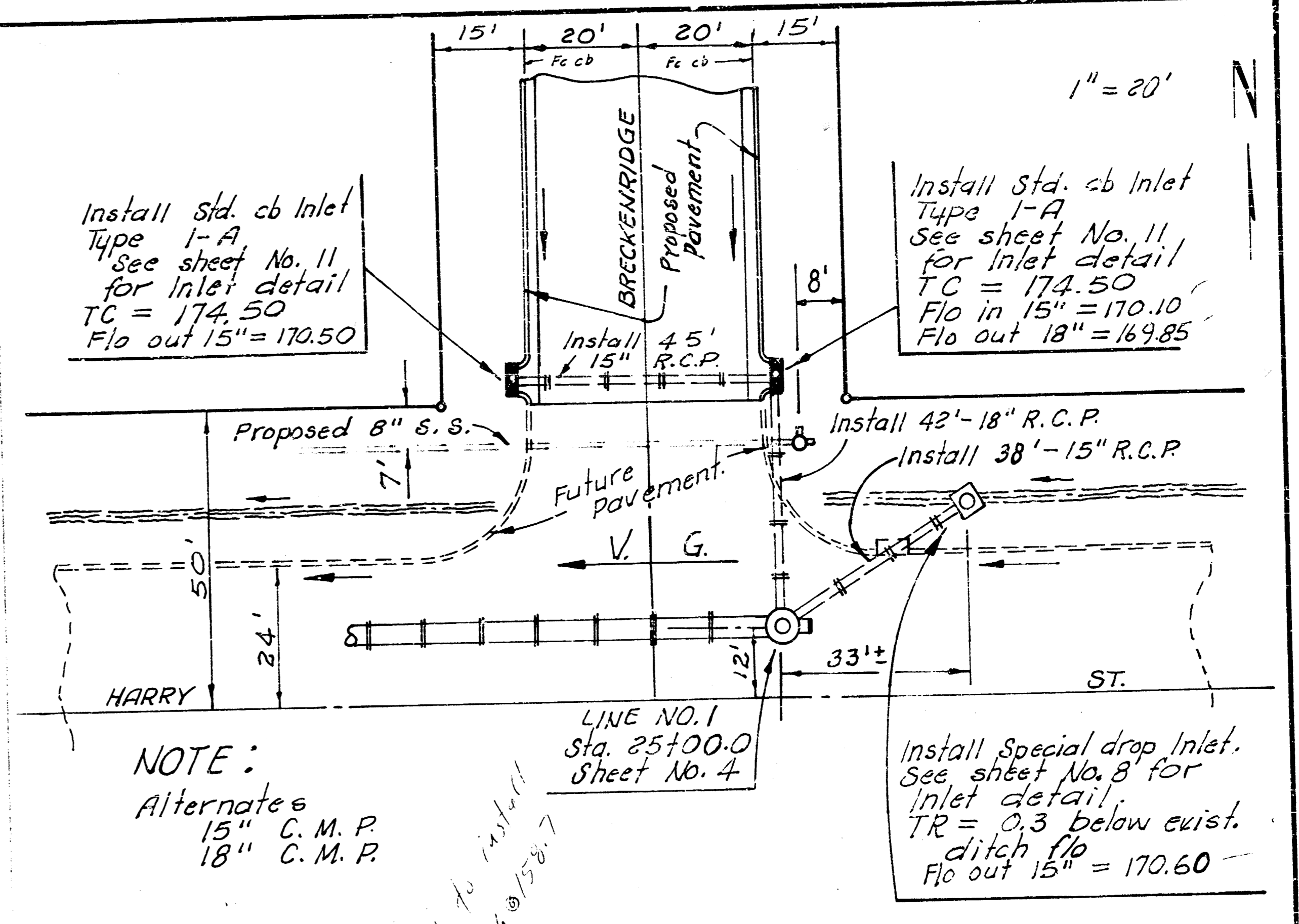
STD. REINF. CONC. M. H.
TYPICAL ELEVATION SECTION
Sta. 6+88.0
LINE NO. 1
Scale 3/8" = 1'0"
NOTE: See sheet No. 9 for typical steel pattern.



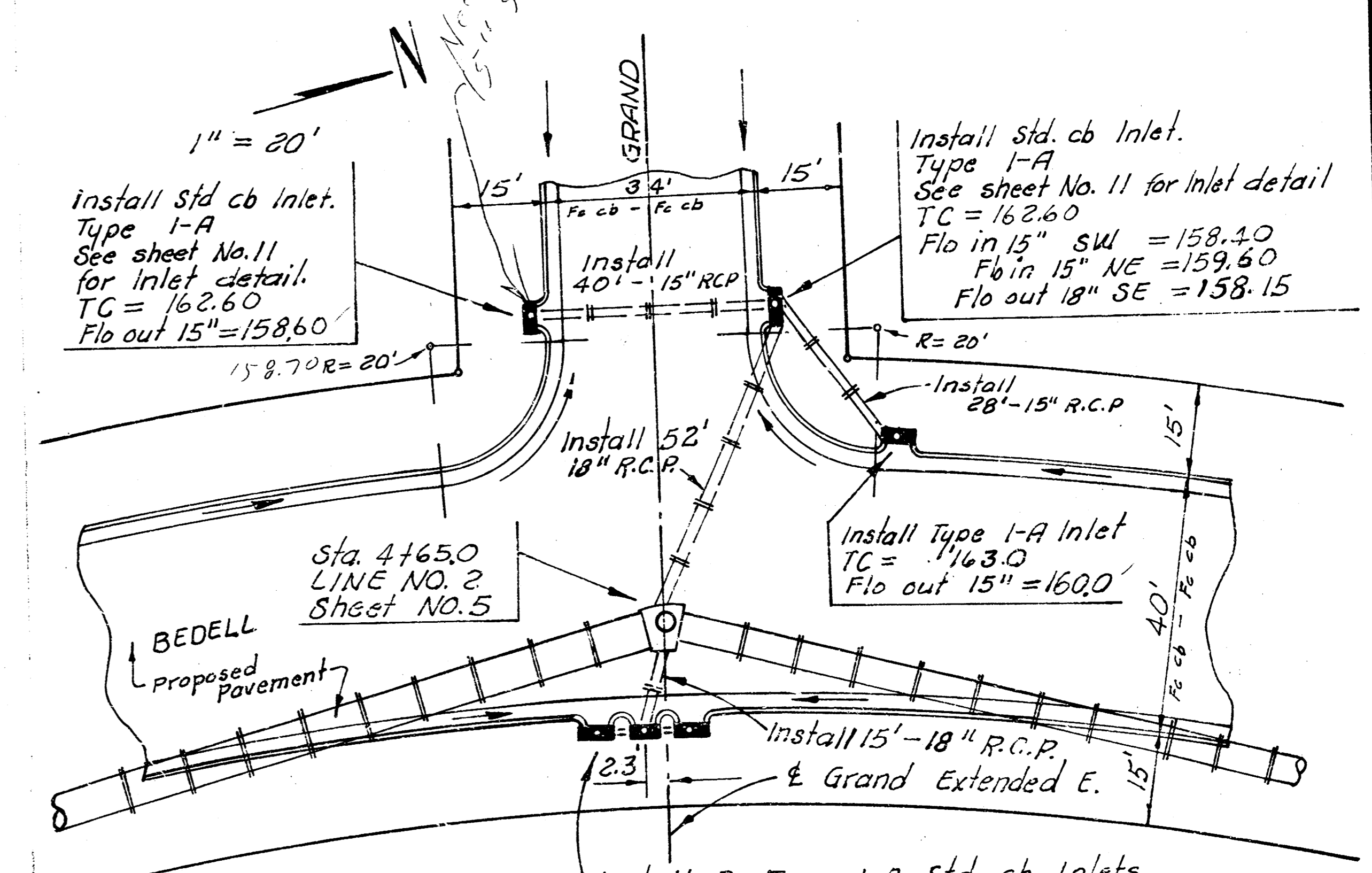
PLAN SECTION THRU WALLS
Sta. 11+14.4
LINE NO. 1
Sheet No. 2



STD. REINF. CONC. M. H.
TYPICAL ELEVATION SECTION
Sta. 11+14.4
LINE NO. 1
Scale 3/8" = 1'0"
NOTE: See sheet No. 9 for typical steel pattern.



NOTE:
Alternates
15" C.M.P.
18" C.M.P.



NOTE:
Alternates
15" C.M.P.
18" C.M.P.

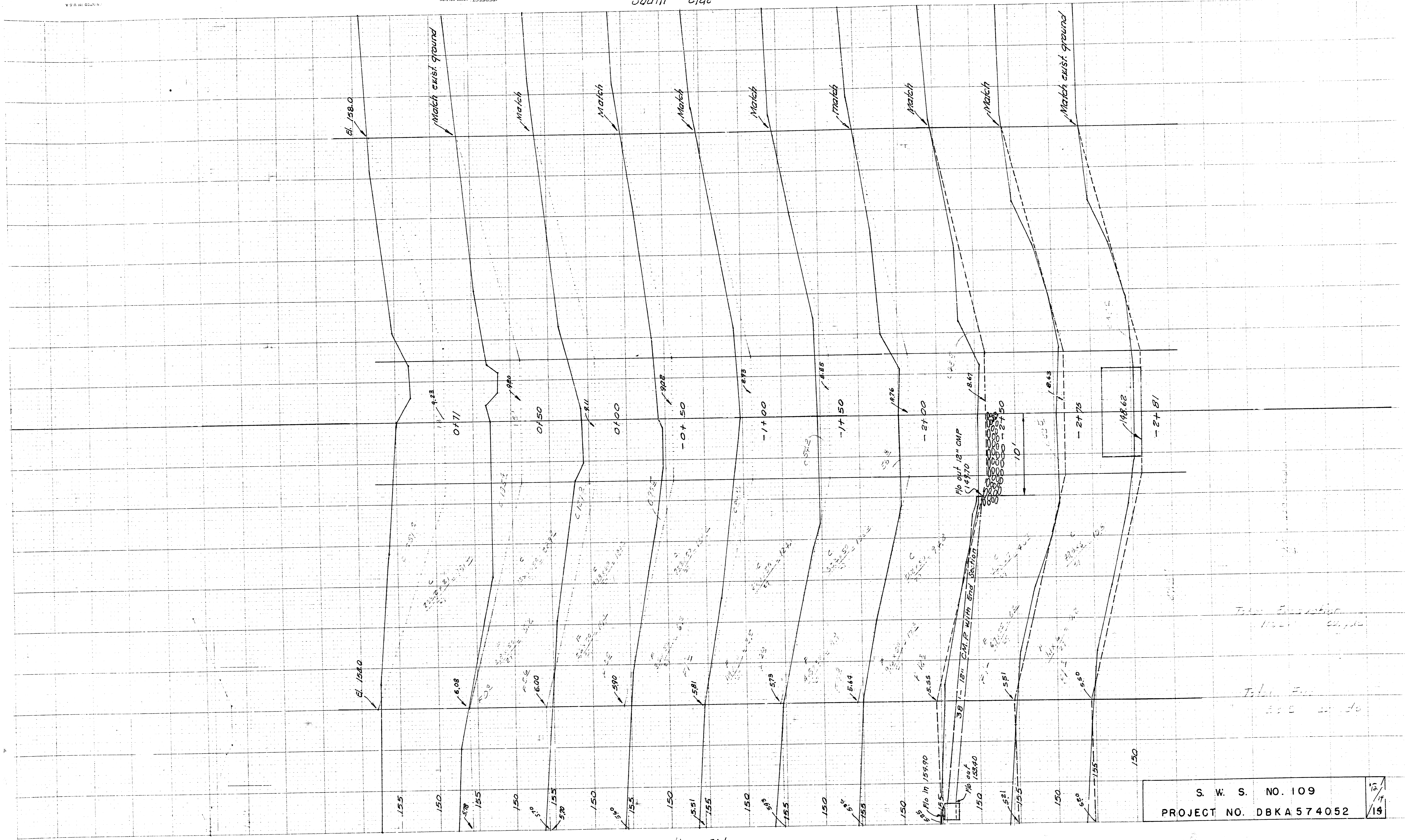
Install 3 - Type 1-A std. cb Inlets. See sheet No. 11 for Inlet detail. Install 8'-15" R.C.P. betw. Inlets.
South Inlet
T.C. = 162.94
Flo out 15" = 159.90
Center Inlet
T.C. = 162.90
Flo in 15" North & South = 159.70
Flo out 18" = 158.90
North Inlet
T.C. = 163.00
Flo out 15" = 159.90

PROJECT: SAN ANTONIO
10 X 10 - ONE INCH
EUGENE DIEZON CO.

South Side

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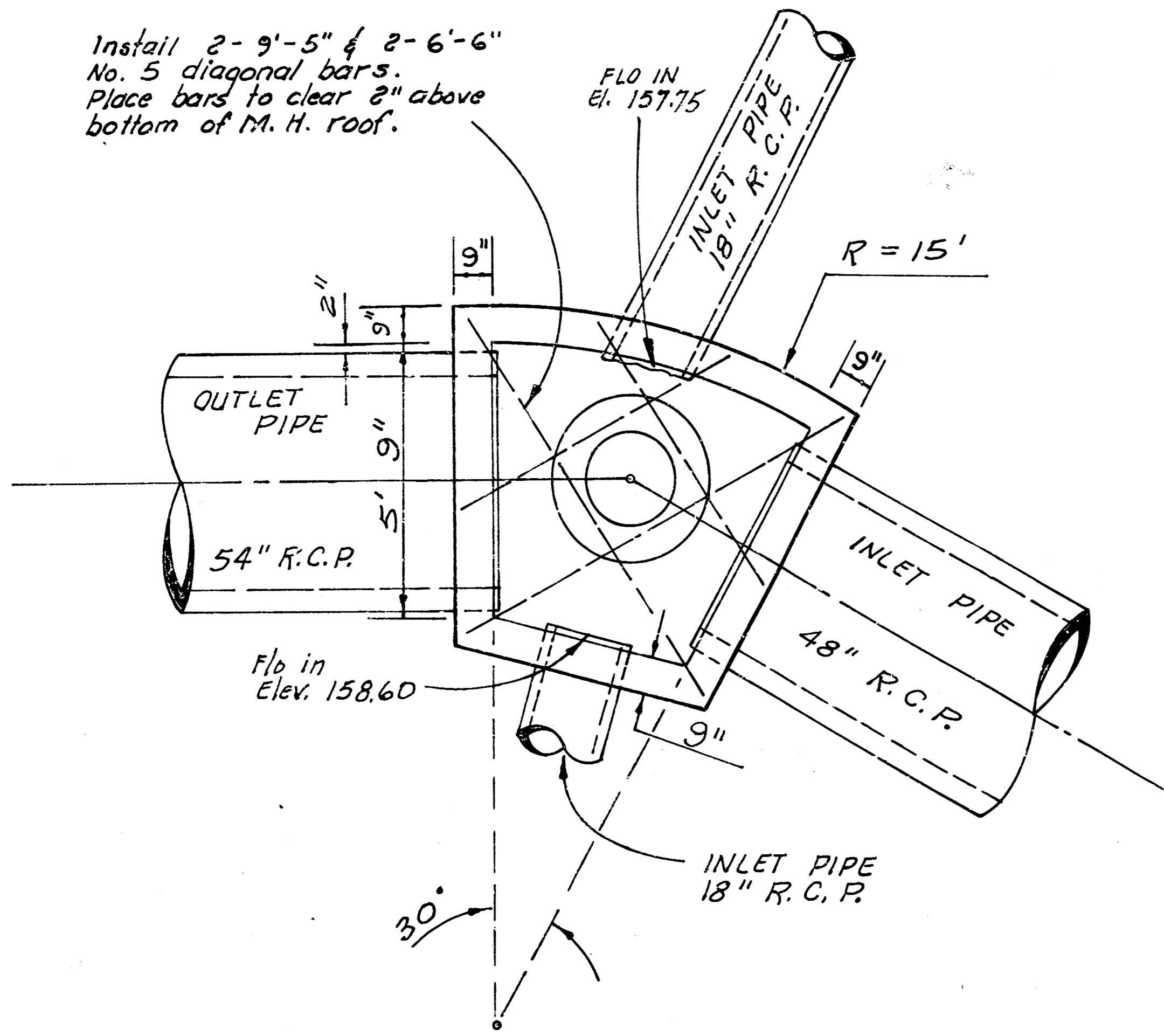
PROJECT: SAN ANTONIO
10 X 10 - ONE INCH
EUGENE DIEZON CO.



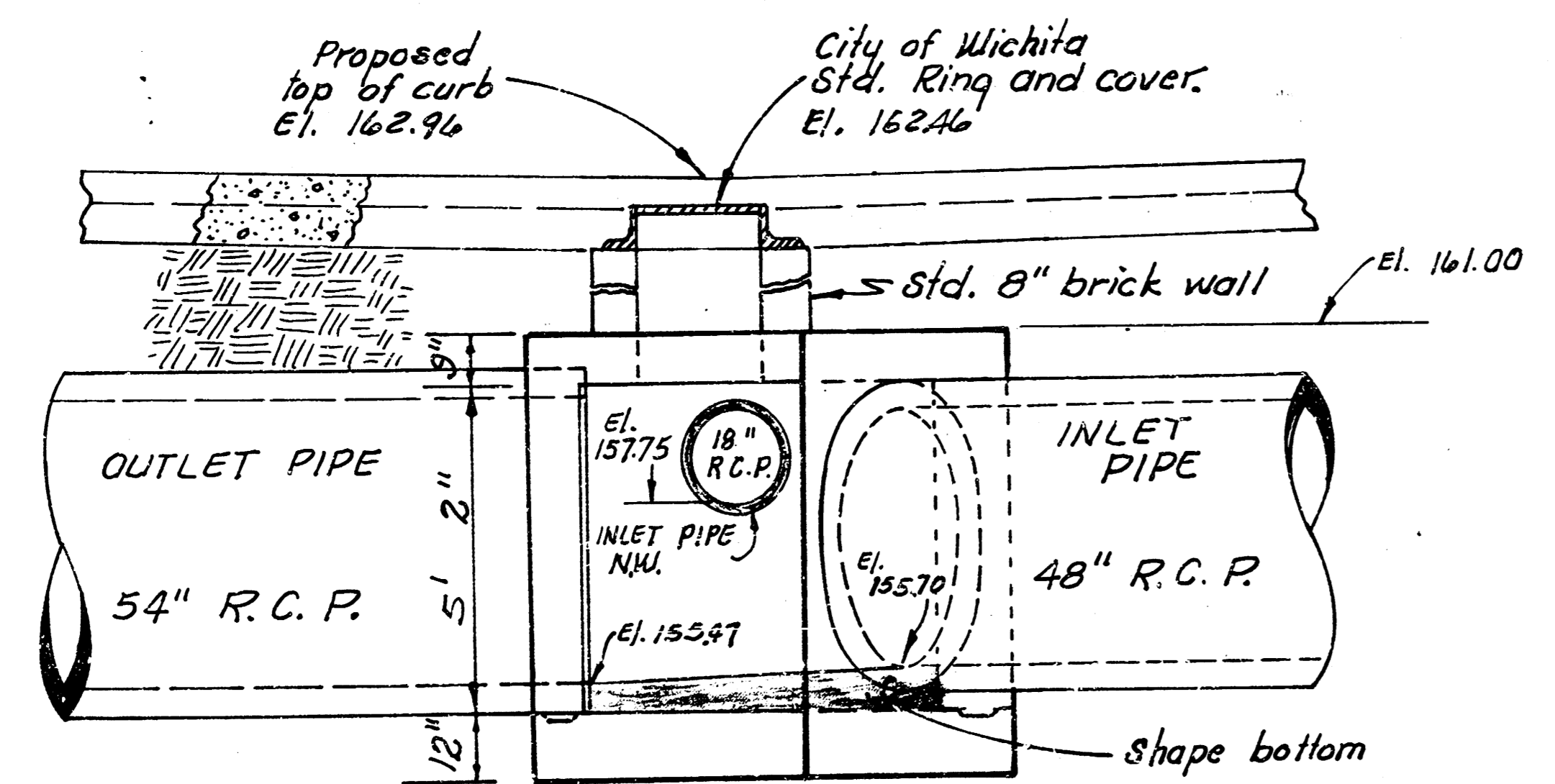
North Side

S. W. S. NO. 109
PROJECT NO. DBKA 574052

12/14

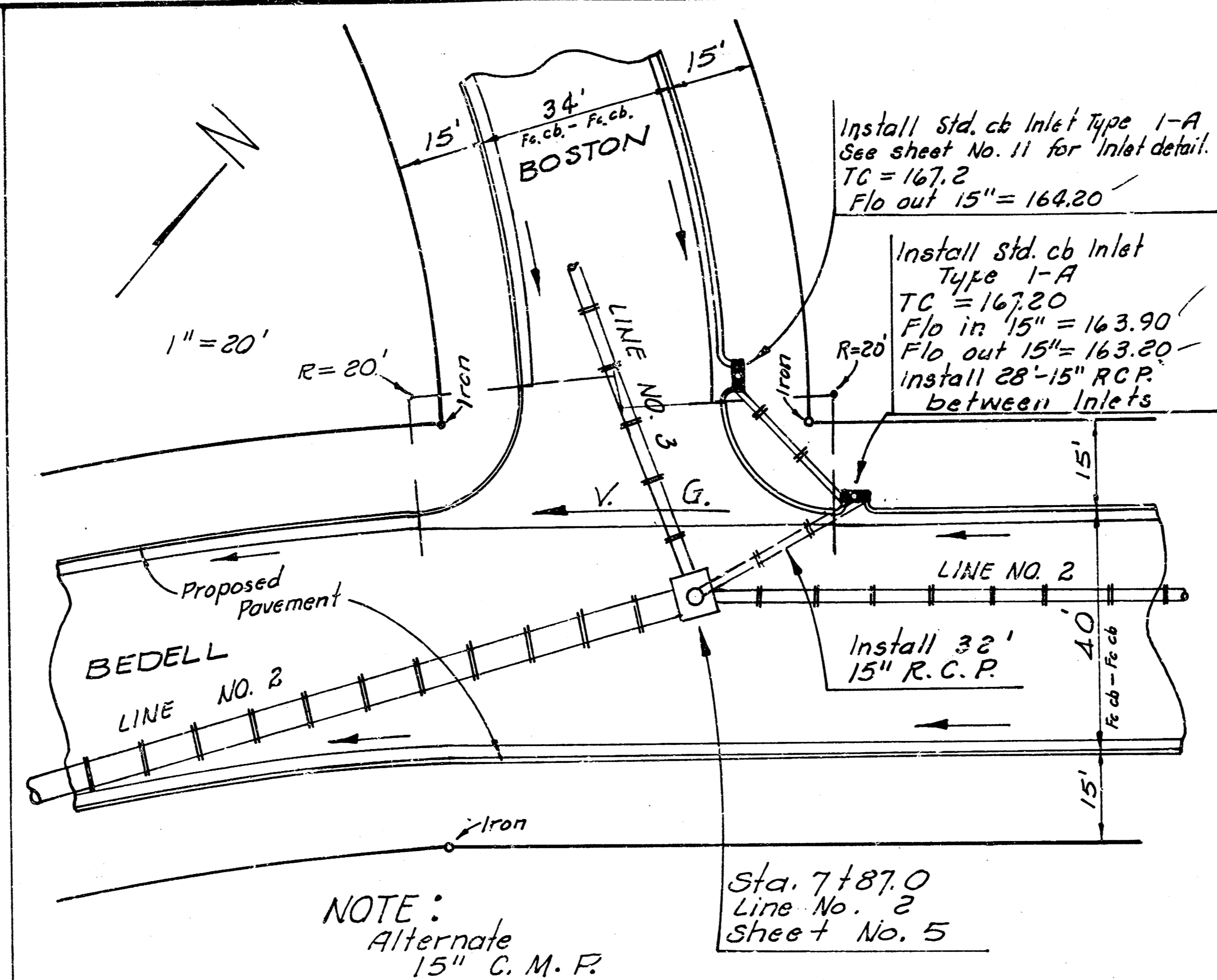


PLAN SECTION THRU WALLS
Sta. 4+65.0
LINE NO. 2
Sheet No. 5
Sheet No. 10

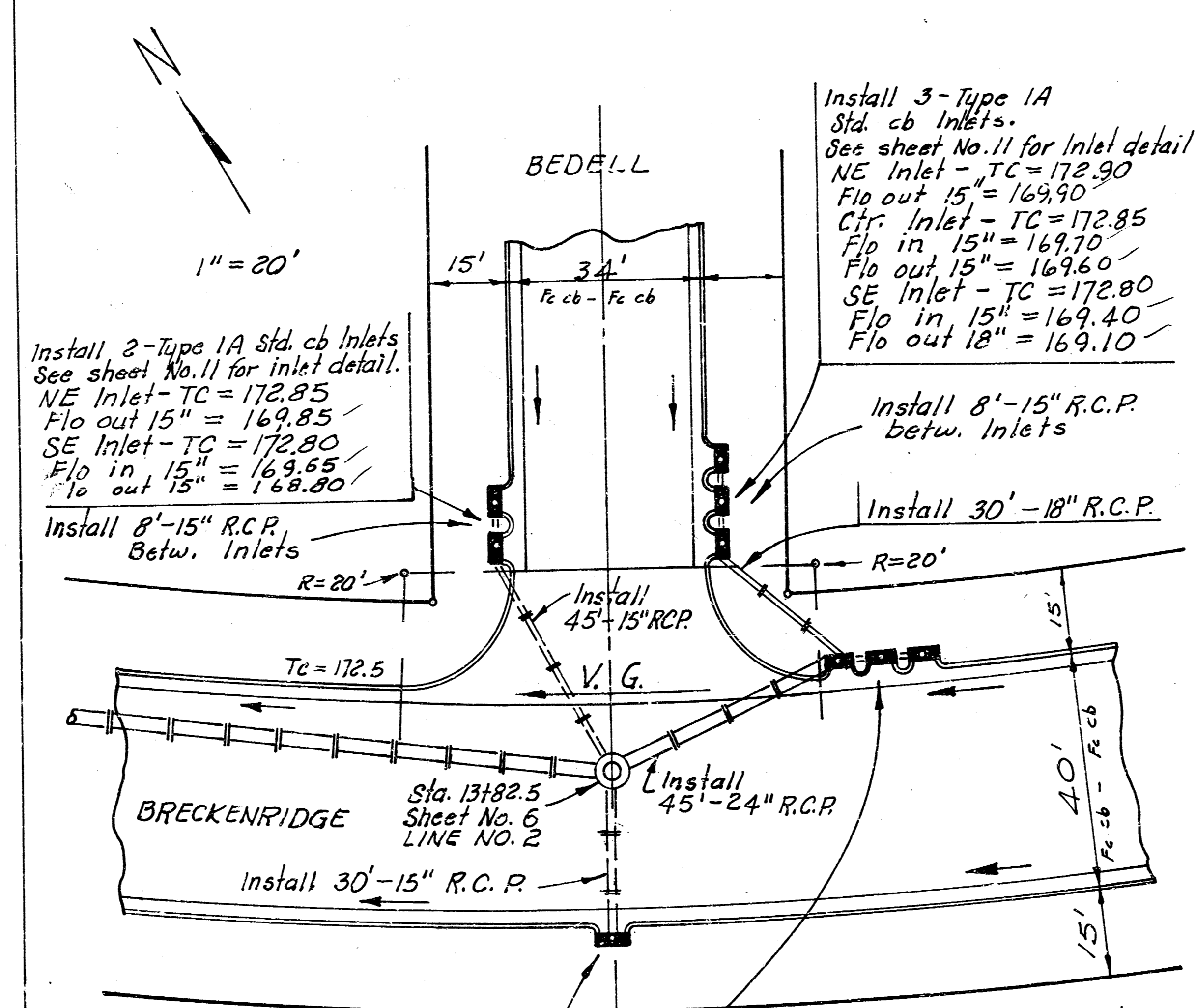


STD. REINF. CONC. MANHOLE
TYPICAL ELEVATION SECTION
Sta. 4+65.0
LINE NO. 2
Sheet No. 5
Sheet No. 10
Scale 3/8" = 1' 0"

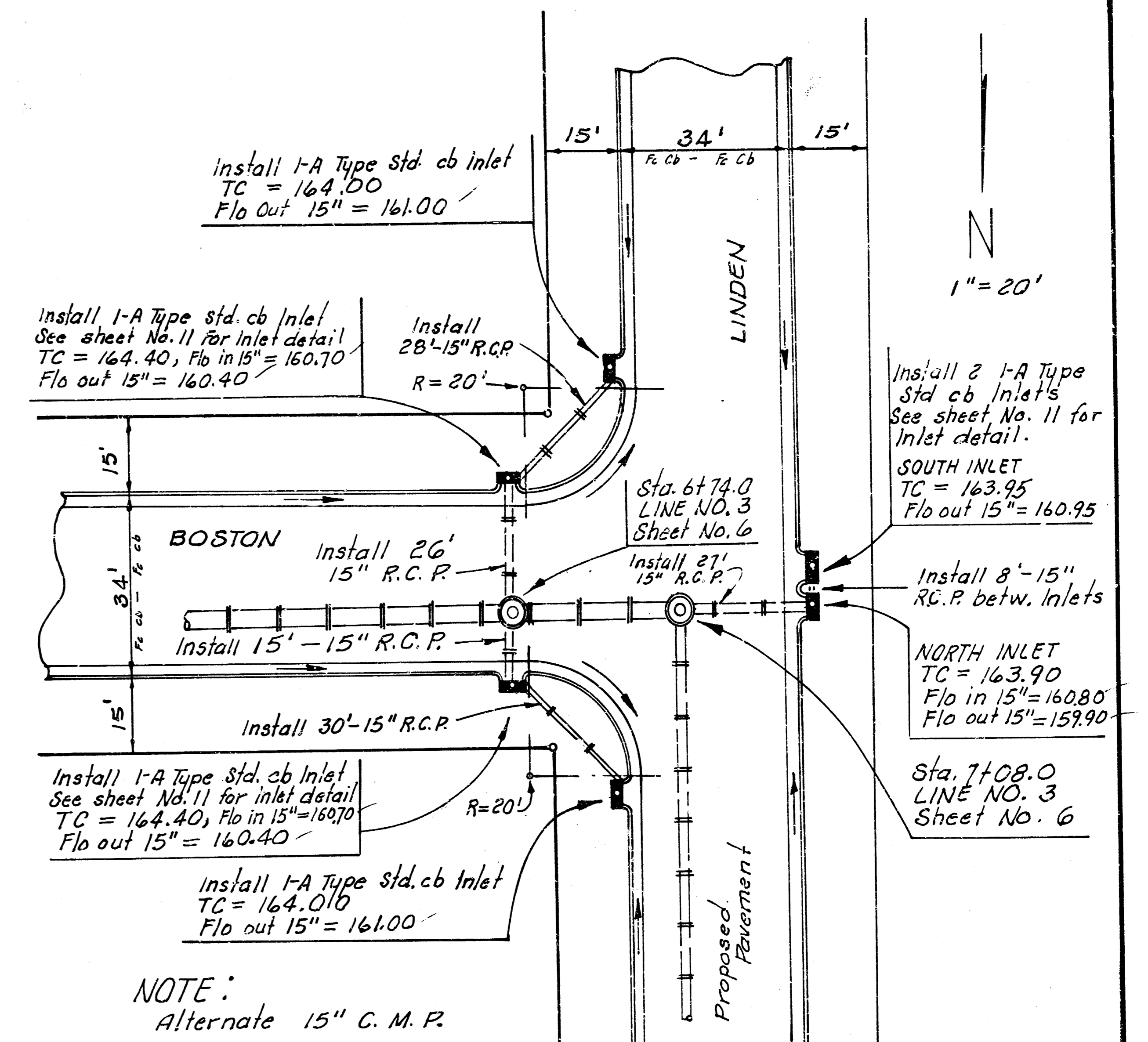
NOTE: See sheet No. 9 for
Typical Steel pattern.



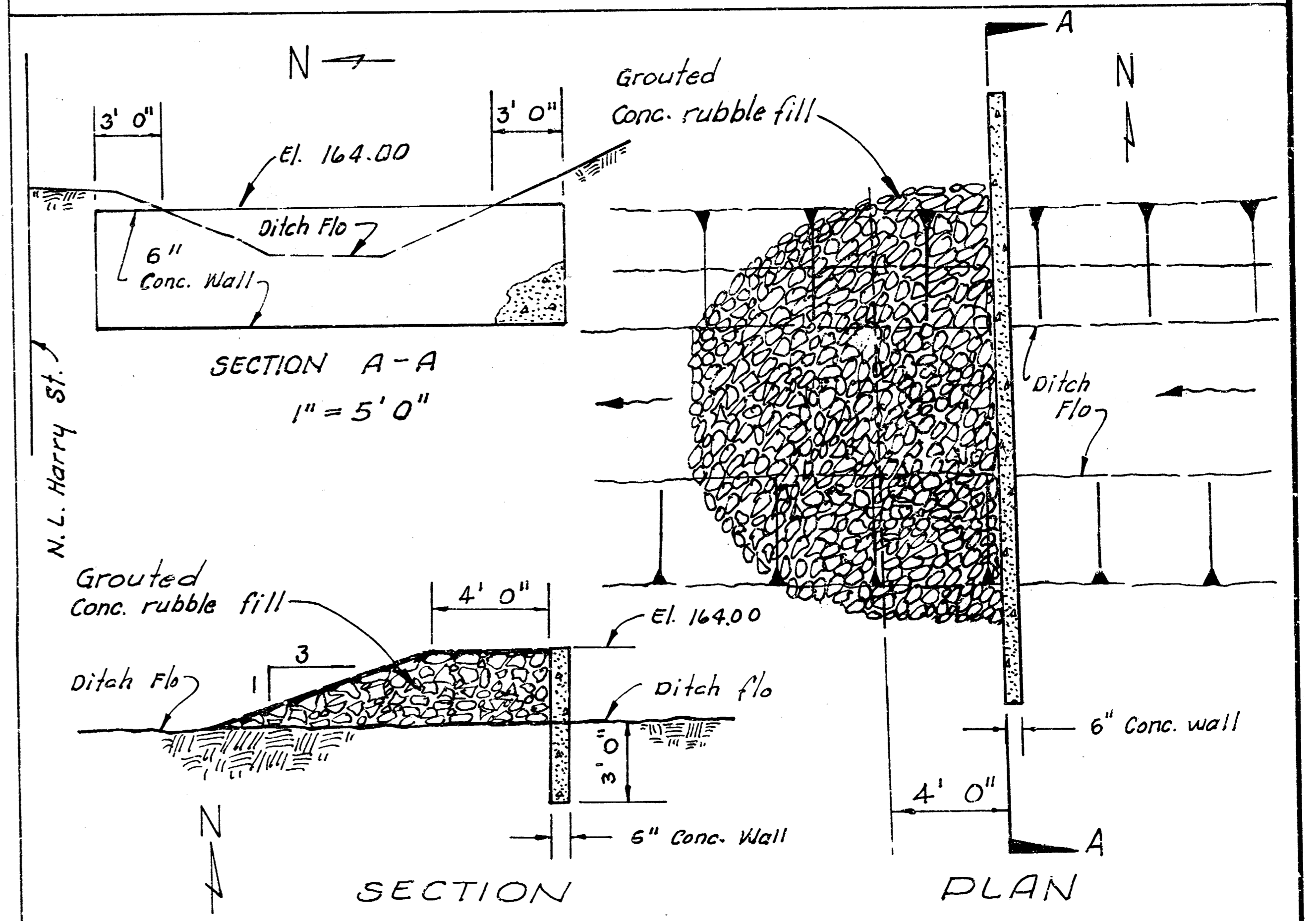
NOTE:
Alternate
15" C.M.P.



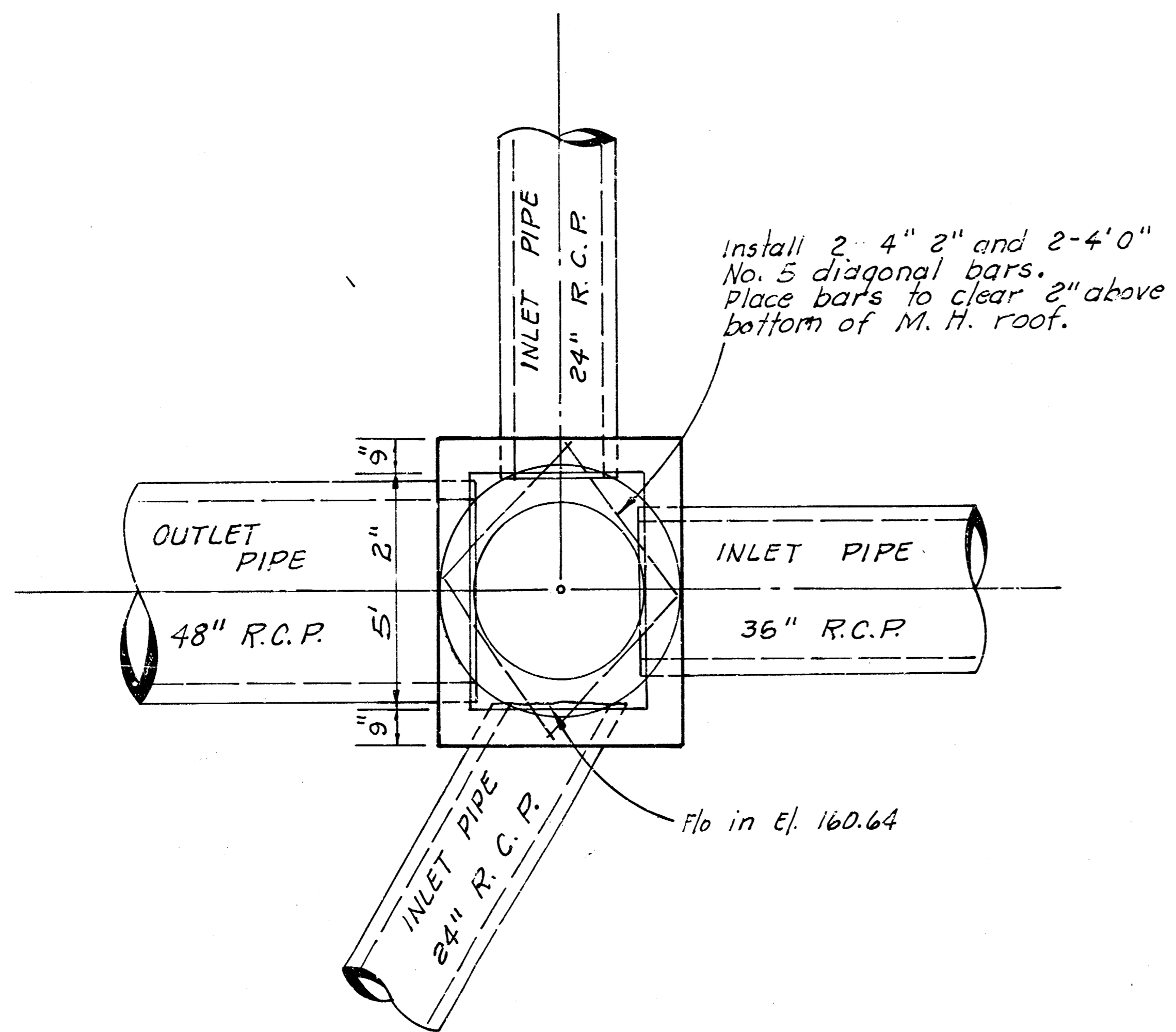
NOTE:
Alternates
15" C.M.P.
18" C.M.P.
24" C.M.P. Fully paved.



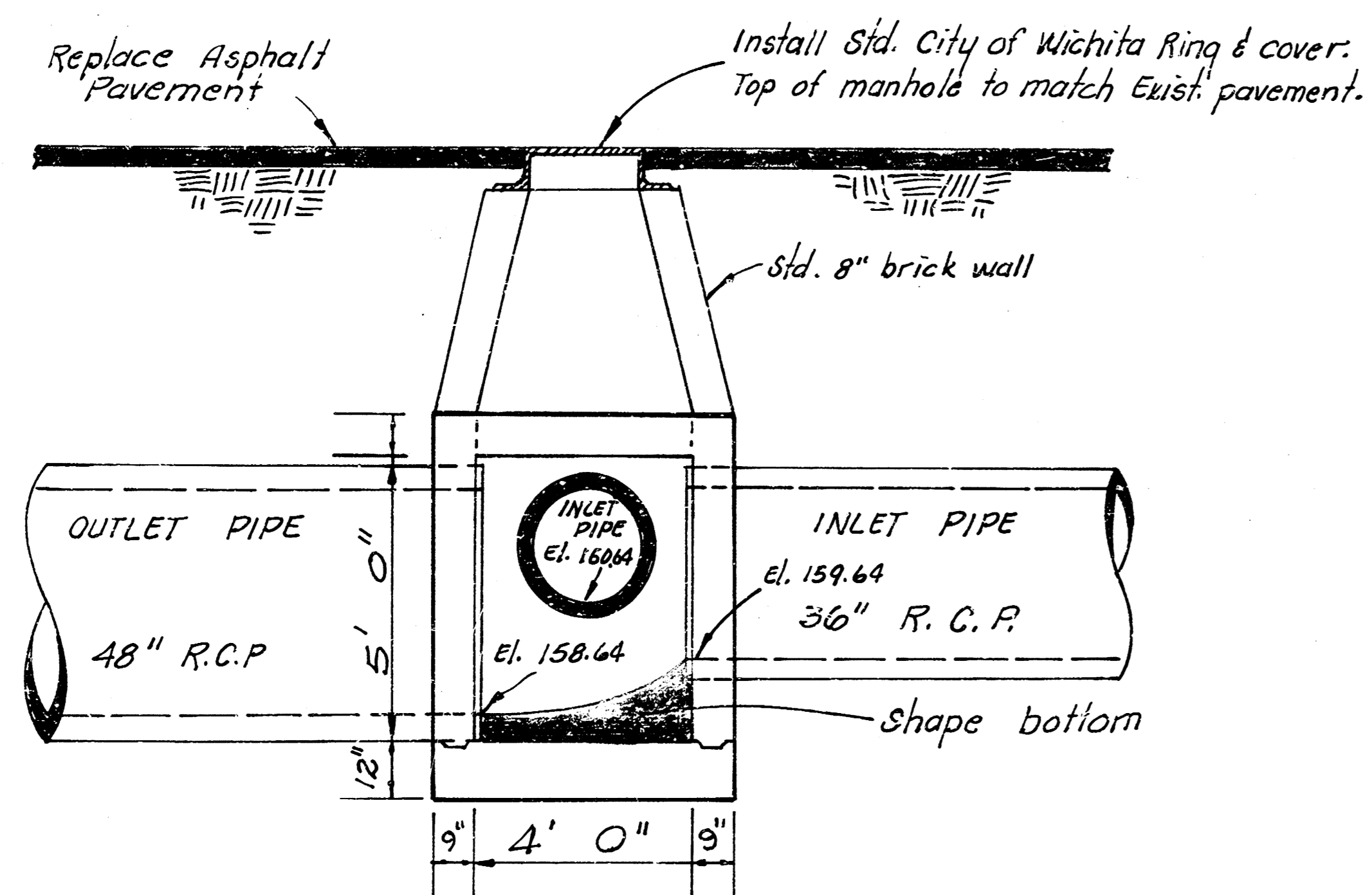
NOTE:
Alternate 15" C.M.P.



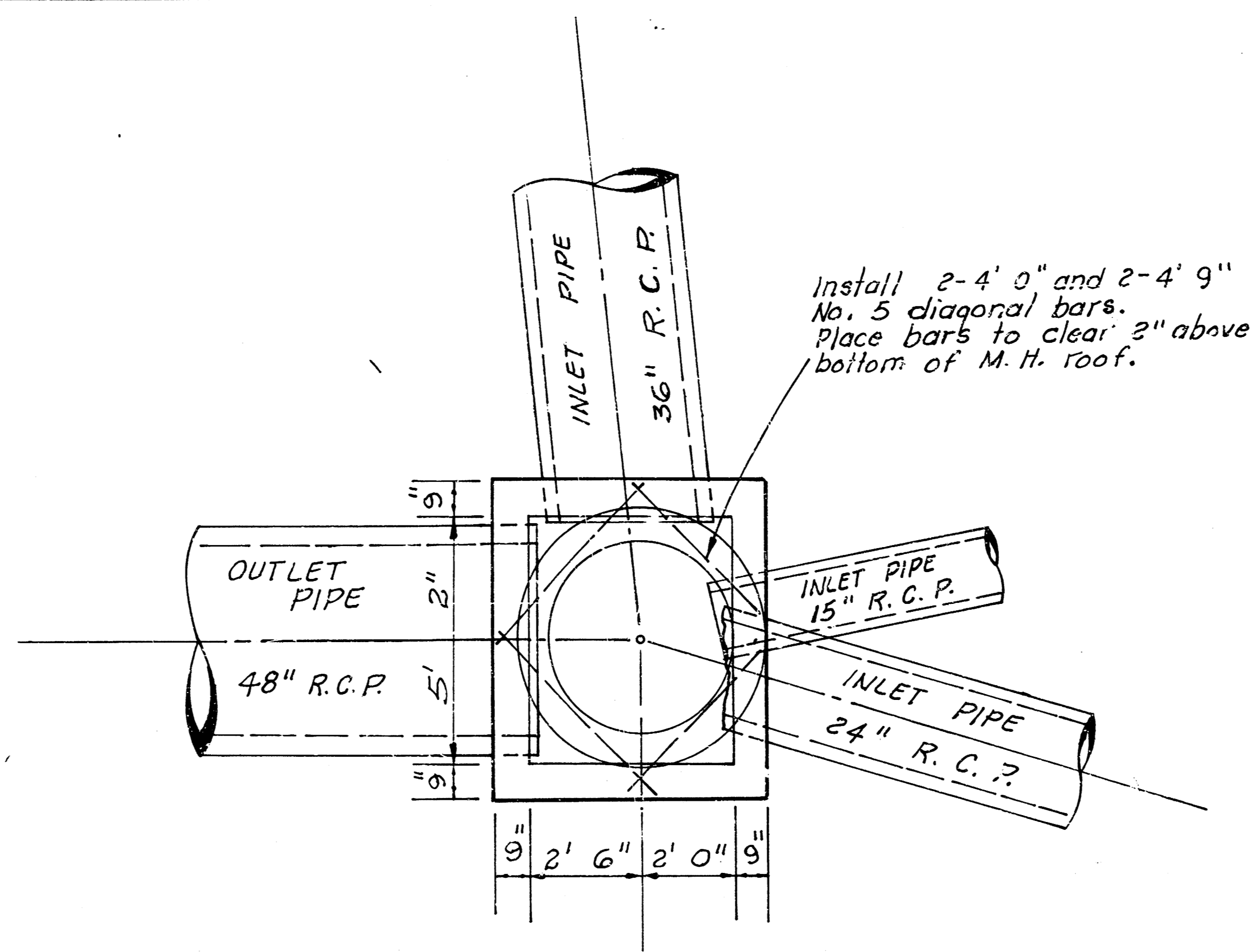
SPECIAL DITCH PLUG
Sta. 14+75.0
LINE NO. 1
Sheet No. 3
Scale 1/4" = 1' 0"



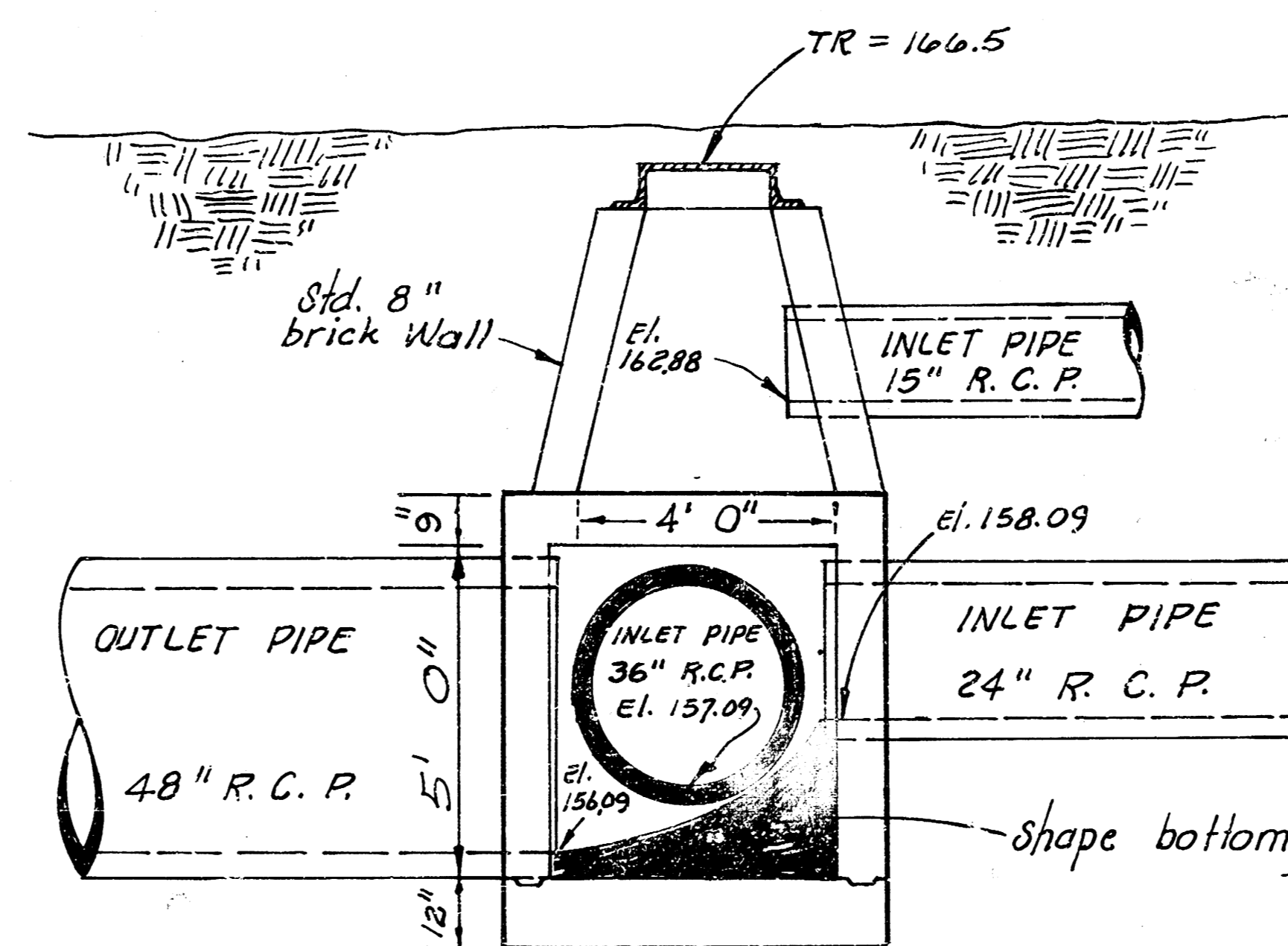
PLAN SECTION THRU WALLS
Sta. 14+83.9
LINE NO. 1
Sheet No. 3



STD. REINF. CONC. M. H.
TYPICAL ELEVATION SECTION
Sta. 14+83.9
LINE NO. 1
Sheet No. 3
Scale $\frac{3}{8}'' = 1' 0''$



PLAN SECTION THRU WALLS
Sta. 7+87.0
LINE NO. 2
Sheet No. 5



STD. REINF. CONC. M. H.
TYPICAL ELEVATION SECTION
Sta. 7+87.0
LINE NO. 2
Sheet No. 5
Scale $\frac{3}{8}'' = 1' 0''$

NOTE: See sheet No. 9 for
Typical Steel pattern.