

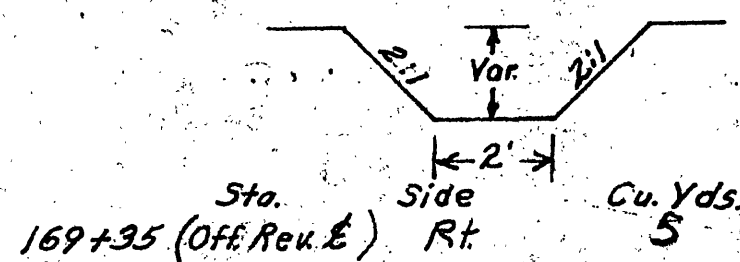
PLAN	BY	DATE
SURVEYED		
PLOTTED		
CHECKED		
REVISIONS		
NO.		

PROFILE	BY	DATE
SURVEYED		
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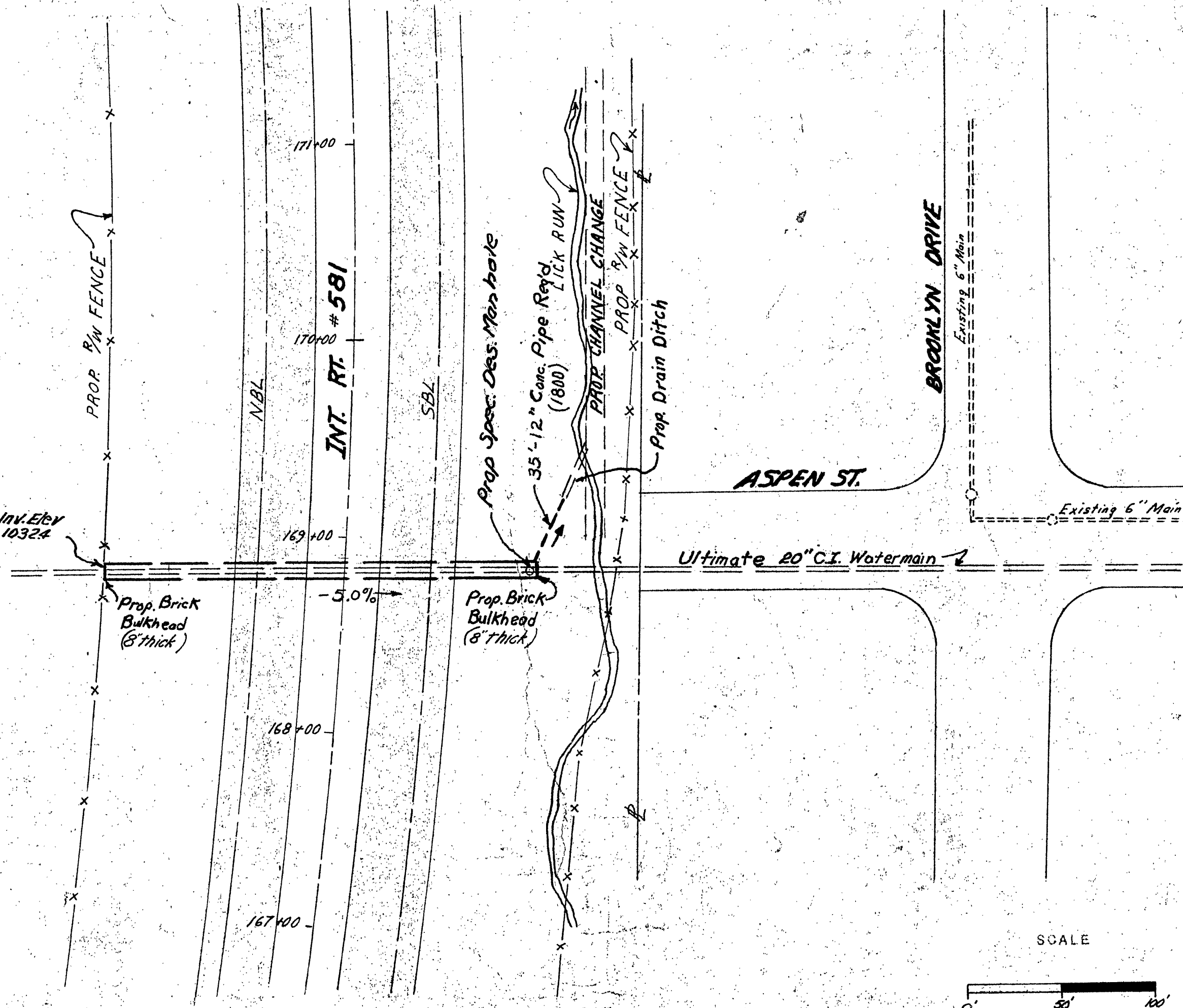
P.C. HUFF
(Estate)

- * Prop. 14'-5"x4' Box Culvert (5° Skew) Inv. Elev. 10322
- * Std. BC-1 (Fills 0' to 12')
- * Prop. 81'-5"x4' Box Culvert (5° Skew) Std. BC-1 (Fills 12' to 25')
- Note: Box Culverts to be constructed without headwalls & wingwalls.
- Note: Dimension of Fillets to be increased to 0.7'.
- Foundation: Brown, reddish brown clay & Reddish yellow silty soil.
- Undercut 12" and backfill with Aggregate Type I, Grading "B" or "C"
- 1 Spec. Des. Manhole Req'd

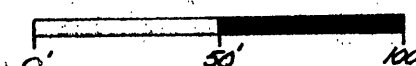
PROP. DRAIN DITCH



* Note: To be installed by Contractor & to be paid for by City of Roanoke (NON-PARTICIPATING)



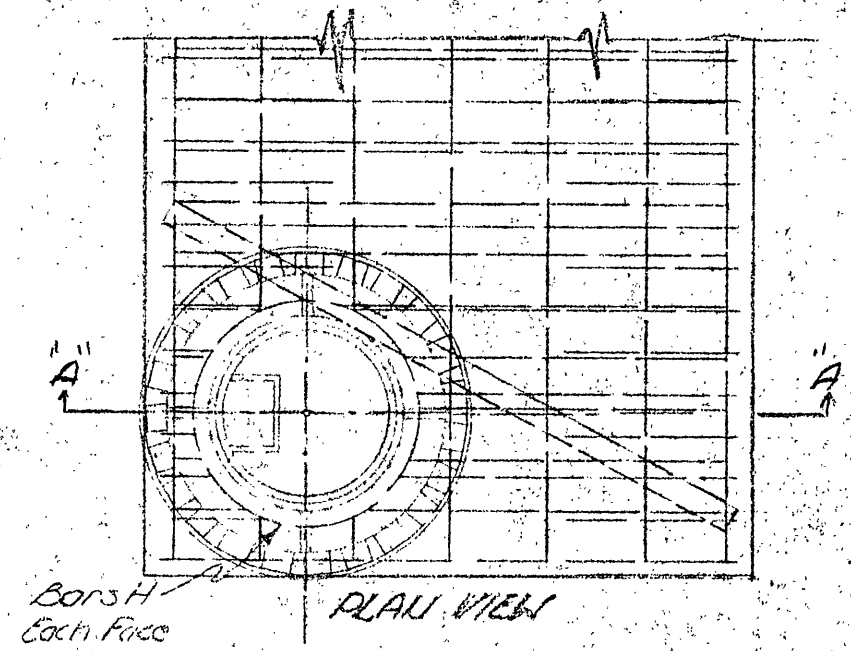
SCALE



Added 6-11-62
Revised 7-2-62
8-1-62

PUB. ROAD REGION	STATE	FEDERAL AID PROJECT ROUTE	STATE PROJECT ROUTE	SHEET NO.	TOTAL SHEETS
2	VA.	I 581-581/146	581	0581-128-006301	65

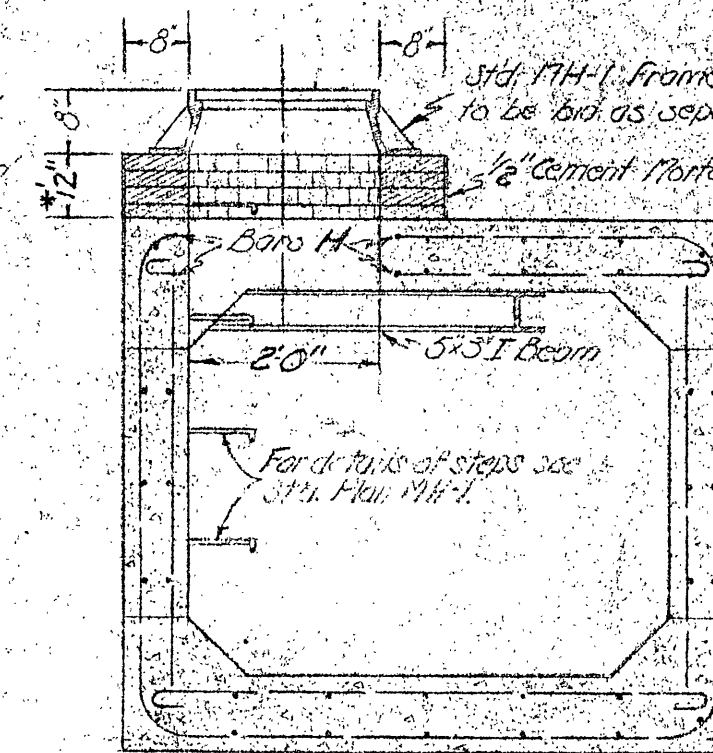
DETAIL OF SPECIAL DESIGN MANHOLE FOR BOX CULVERT



PLAN VIEW

* This dimension may be varied to suit frame & cover to ground line.

5/4 Single Box Culvert Std. BC-1 (Fills 0-25)



SECTION A-A

APPROXIMATE QUANTITIES OF MATERIALS

Reinforcing Steel	11 Lbs.
Structural Steel	67 Lbs.
Thousands of Yds.	0.08

Notes:
Standard reinforcing for single 5/4 Box Culvert (Std. BC-1 for all 1255) is to be cut a minimum of 6' from proposed opening for manhole and gate walling to Bars H as shown in plan view.
5/4 I Beam @ 10' lbs./ft. to be placed under the side and extended into side walls to within 6" of outside edge.
Price bid for brick masonry is to include 3" thickness of 1:2 cement mortar coating.

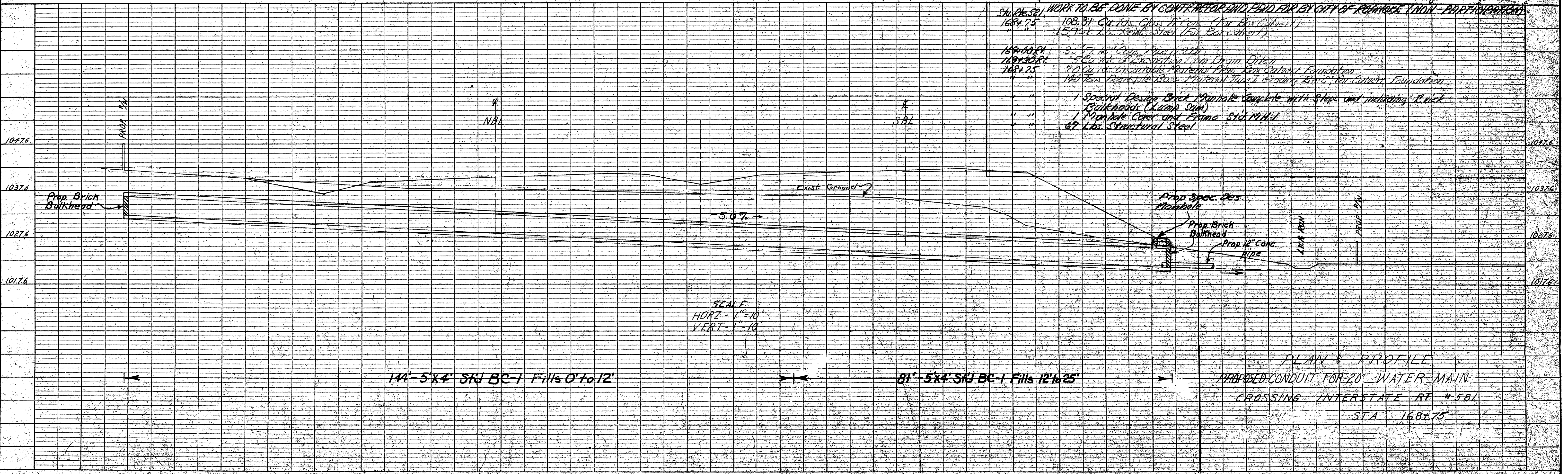
Mark	Size	No. Req'd	Length
Bars H	4"	2	8' 0"

BUILDING DIMENSION

SCALE

WORK TO BE DONE BY CONTRACTOR AND PAID FOR BY CITY OF ROANOKE (NON-PARTICIPATING)

- 108.31 Cu. Yds. Class A Fills (For Box Culvert)
- 15,961 Lbs. Reinf. Steel (For Box Culvert)
- 3.551 M. Conc. Pipe (1800)
- 5 Cu. Yds. of Excavation from Drain Ditch
- 7.0 Cu. Yds. of Excavation from Box Culvert Foundation
- 144 Lbs. Reinforcing Steel Material from 1:2 cement mortar coating
- 1 Special Design Brick Manhole Complete with Steps and including Brick Bulkheads (Lump Sum)
- 1 Manhole Cover and Frame Std. 14" x 14"
- 67 Lbs. Structural Steel



SCALE
HORIZ. 1"=10'
VERT. 1"=10'

14'-5"x4' STD BC-1 Fills 0' to 12'

81'-5"x4' STD BC-1 Fills 12' to 25'

PLAN & PROFILE
PROPOSED CONDUIT FOR 20" WATER MAIN
CROSSING INTERSTATE RT. #581
STA. 168+75