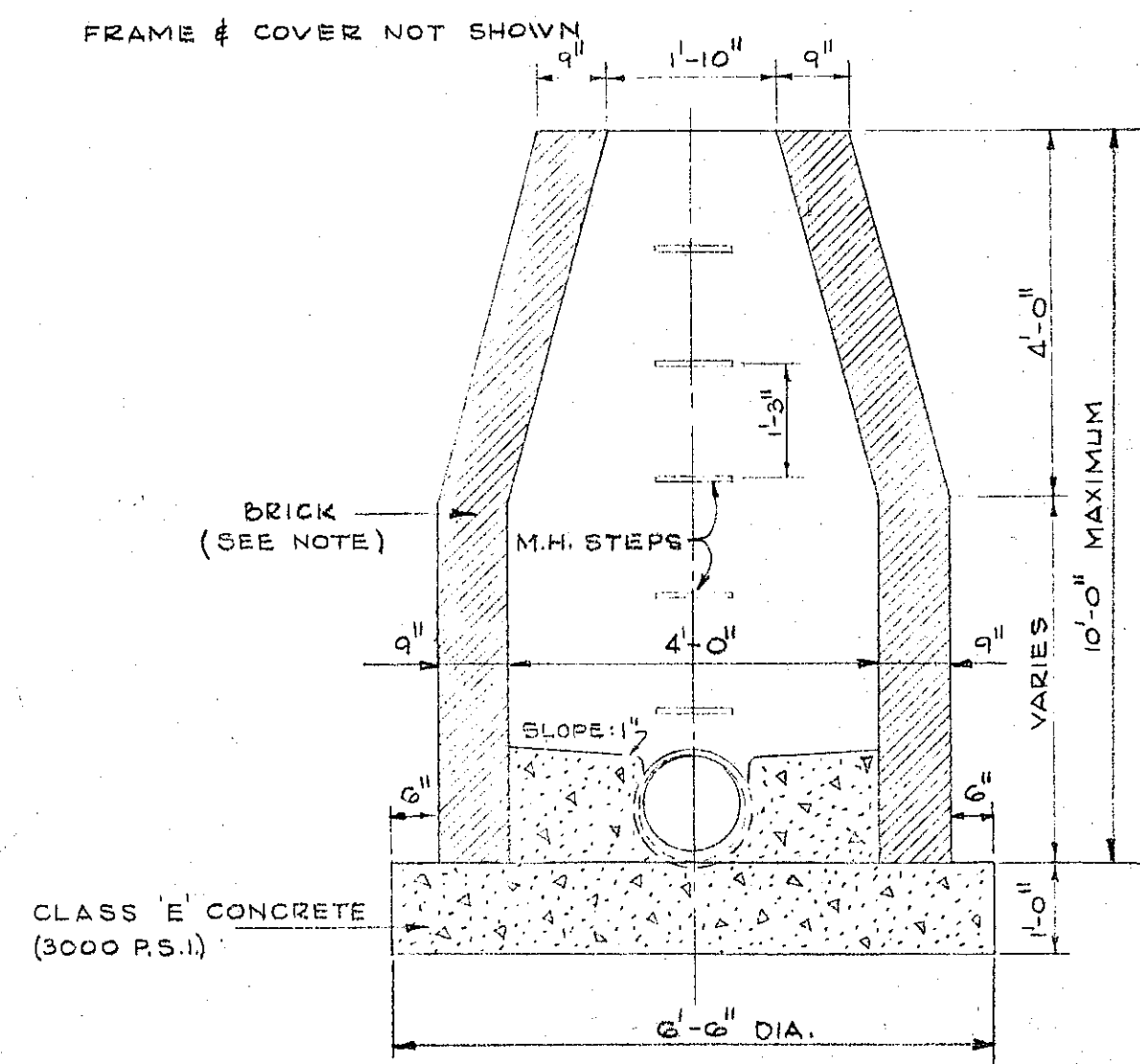
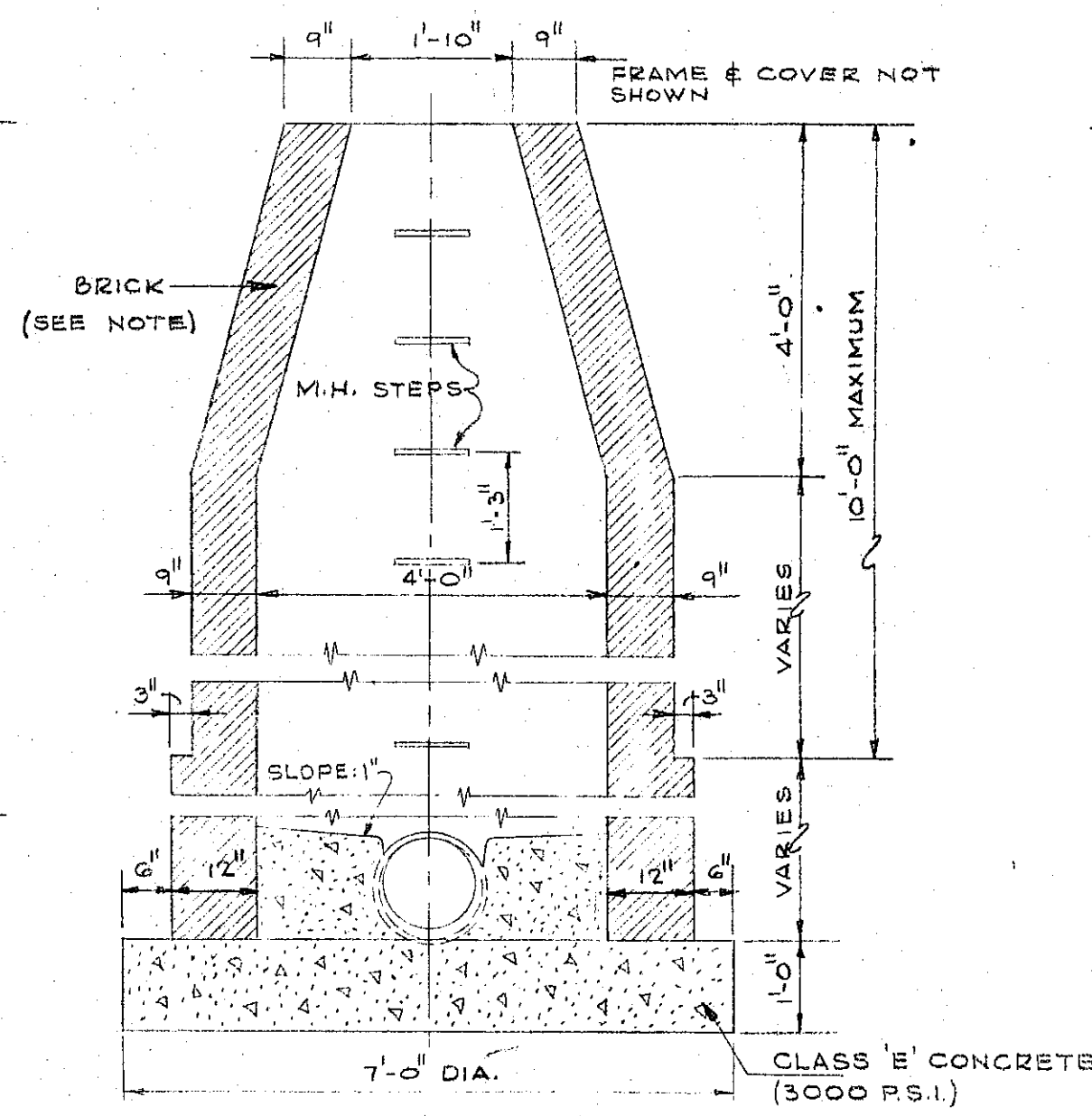




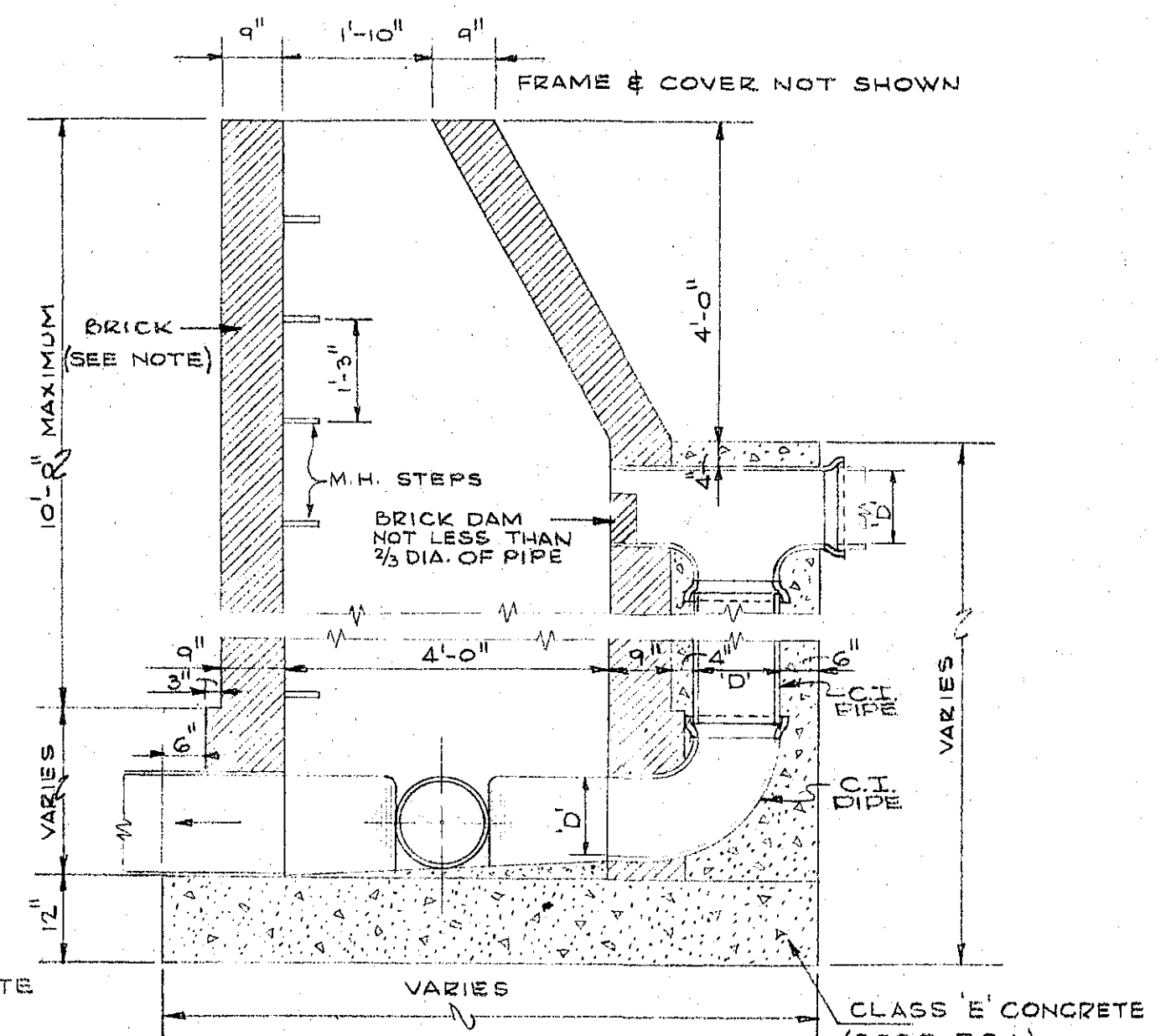
LONGITUDINAL SECTION
MANHOLE 0 TO 10' DEEP
SCALE 1/2"=1'-0"

TYPE 'A'



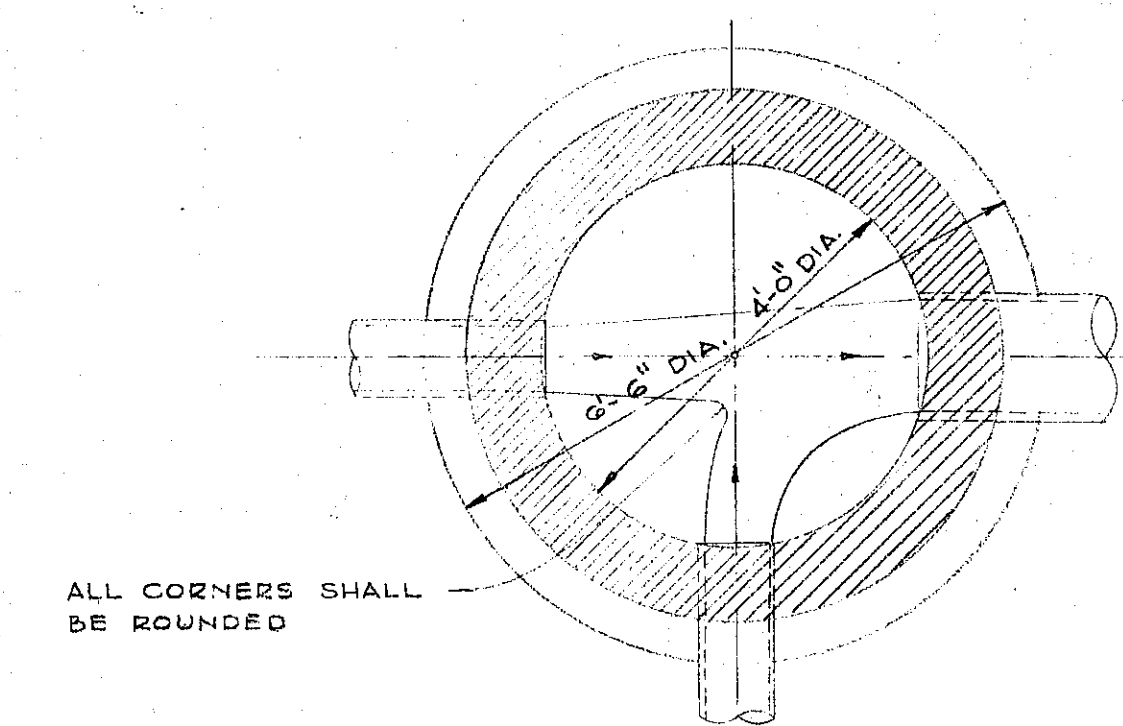
LONGITUDINAL SECTION
MANHOLE OVER 10' DEEP
SCALE 1/2"=1'-0"

TYPE 'A'

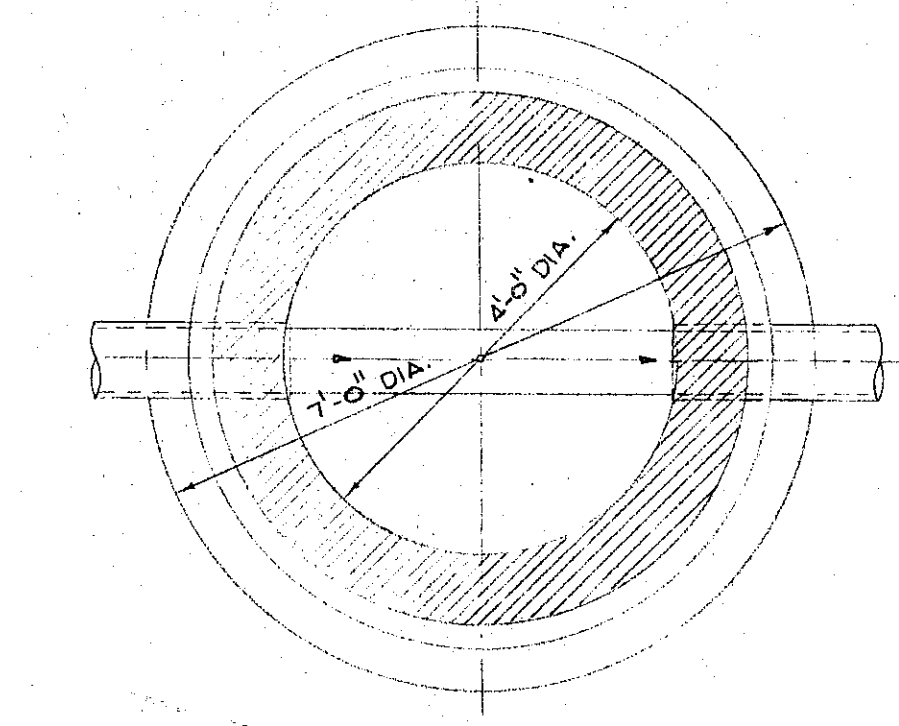


SECTION E-E
SCALE 1/2"=1'-0"

TYPE 'B'

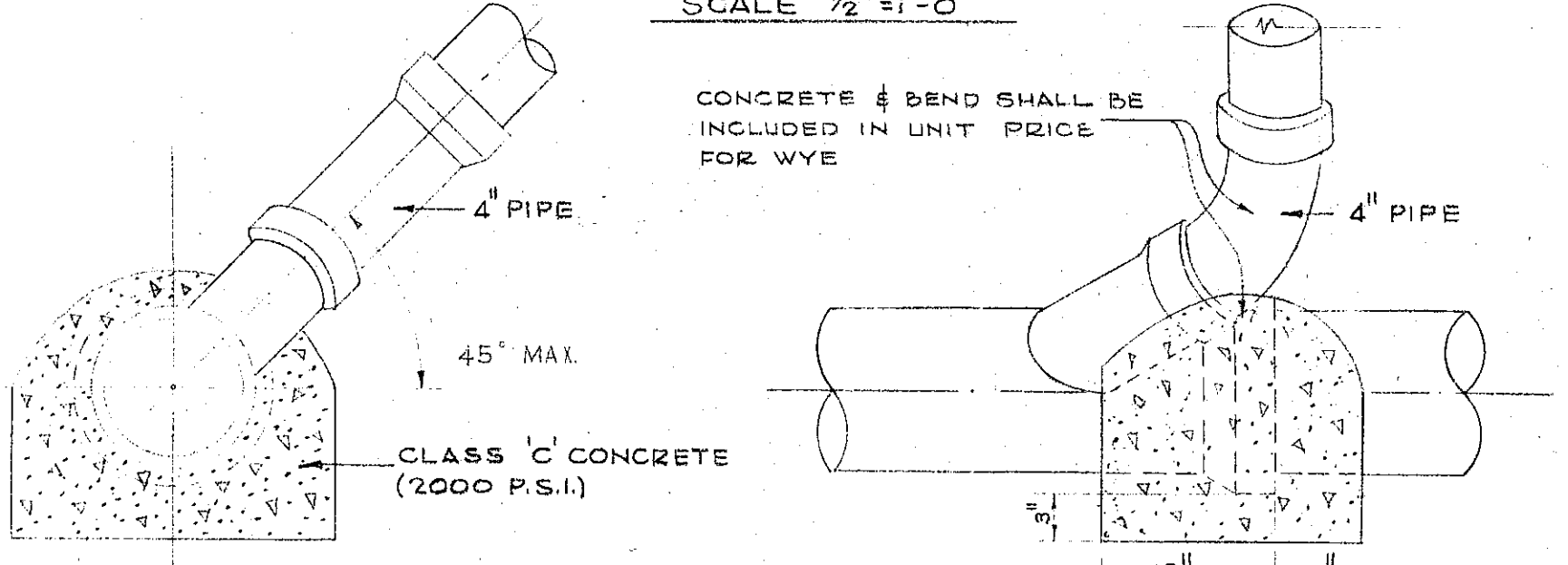


MANHOLE 0 TO 10' DEEP

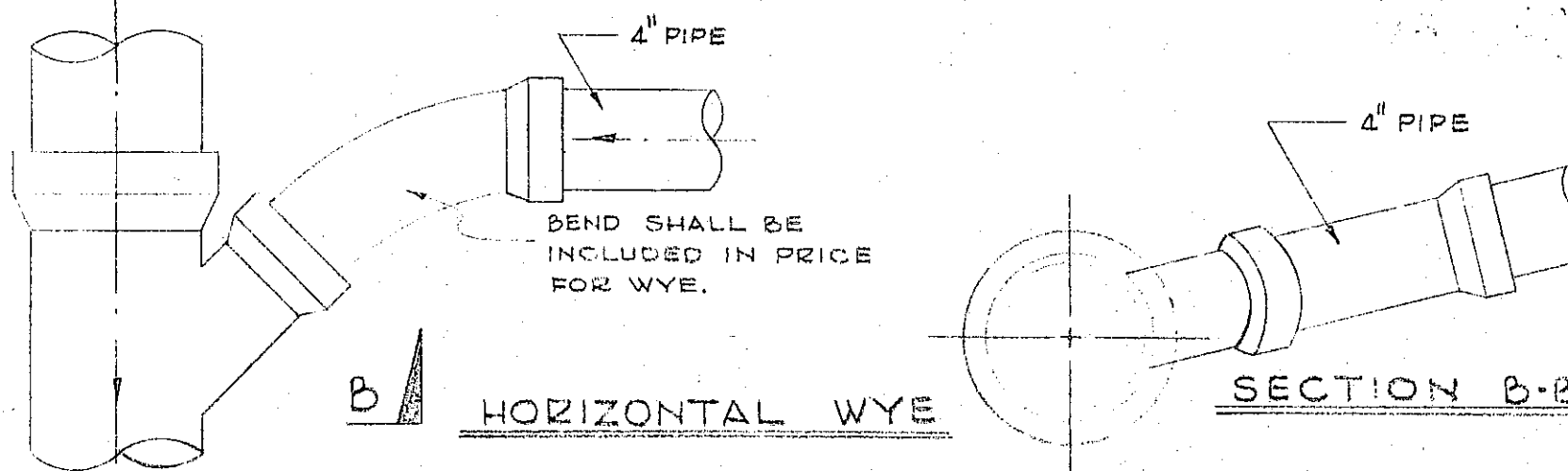


MANHOLE OVER 10' DEEP

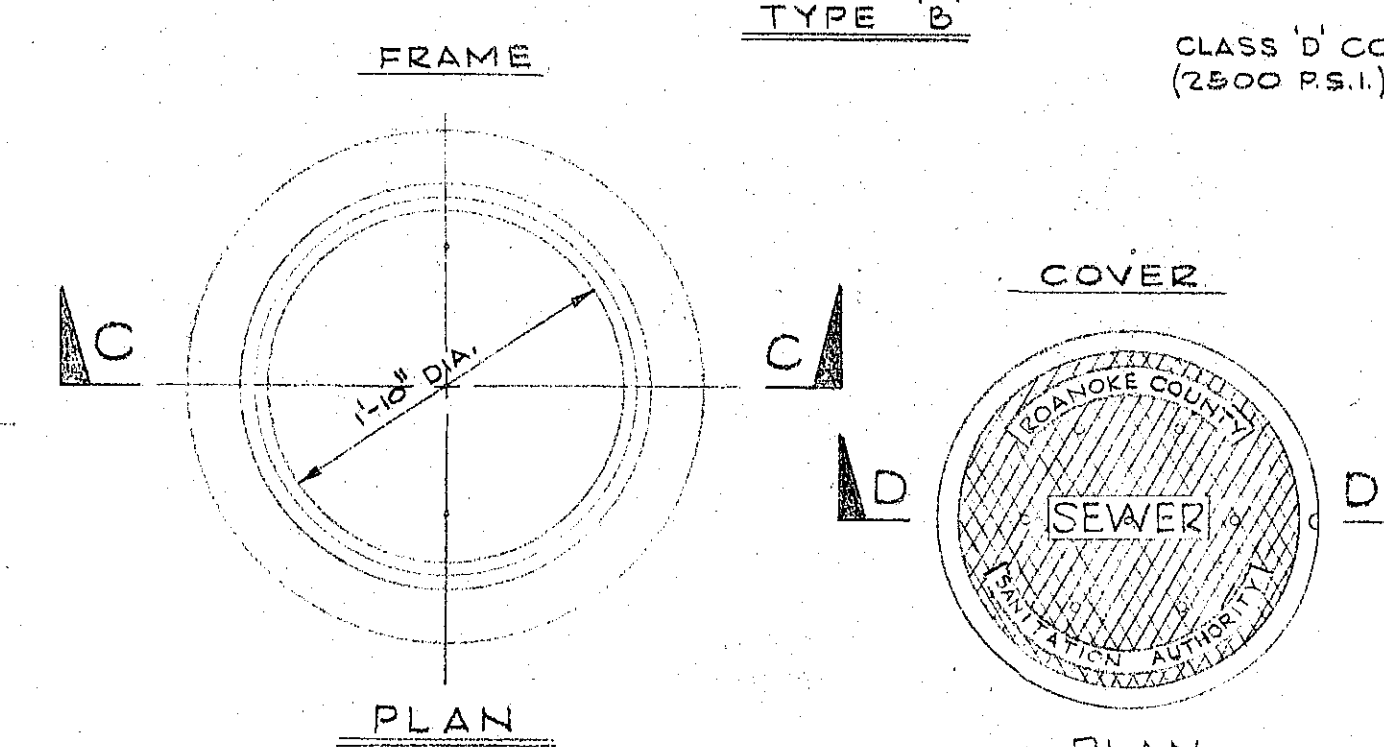
TYPICAL CHANNEL DIAGRAMS
SCALE 1/2"=1'-0"



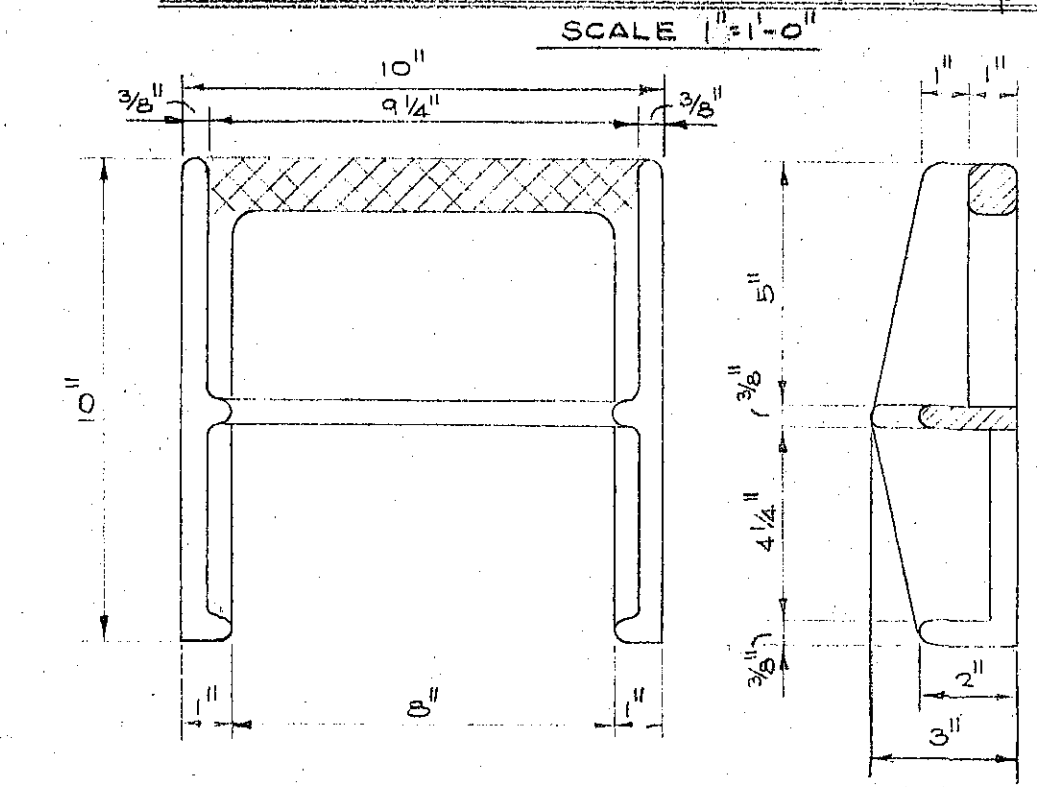
VERTICAL RISER



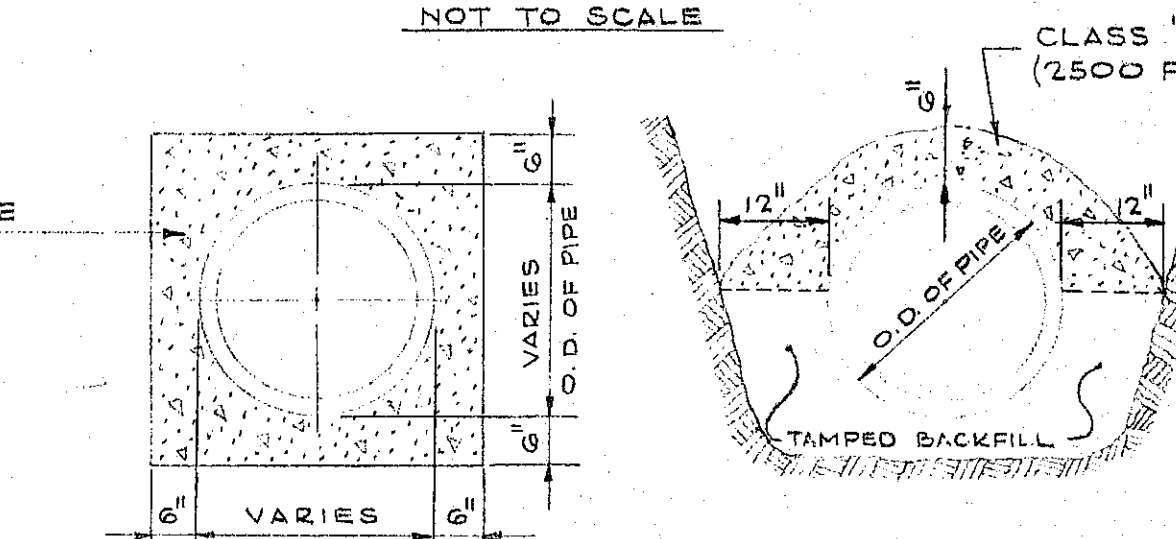
HORIZONTAL WYE
SANITARY SEWER SERVICE CONNECTION
NOT TO SCALE



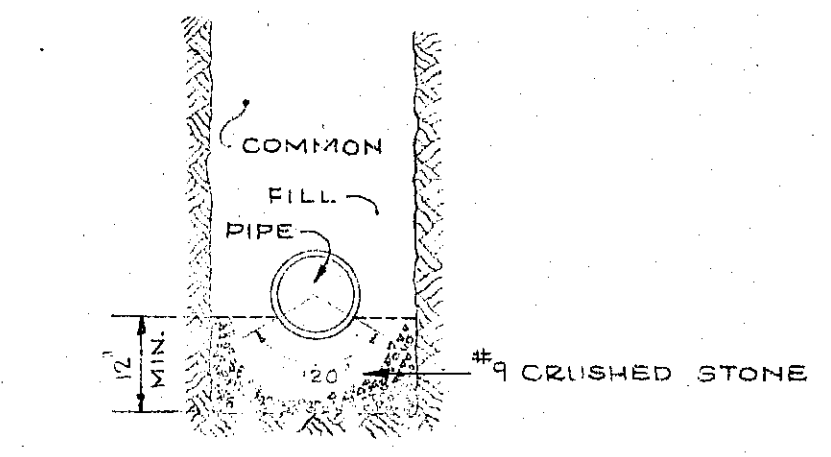
SECTION C-C
STANDARD MANHOLE FRAME & COVER
SCALE 1/2"=1'-0"



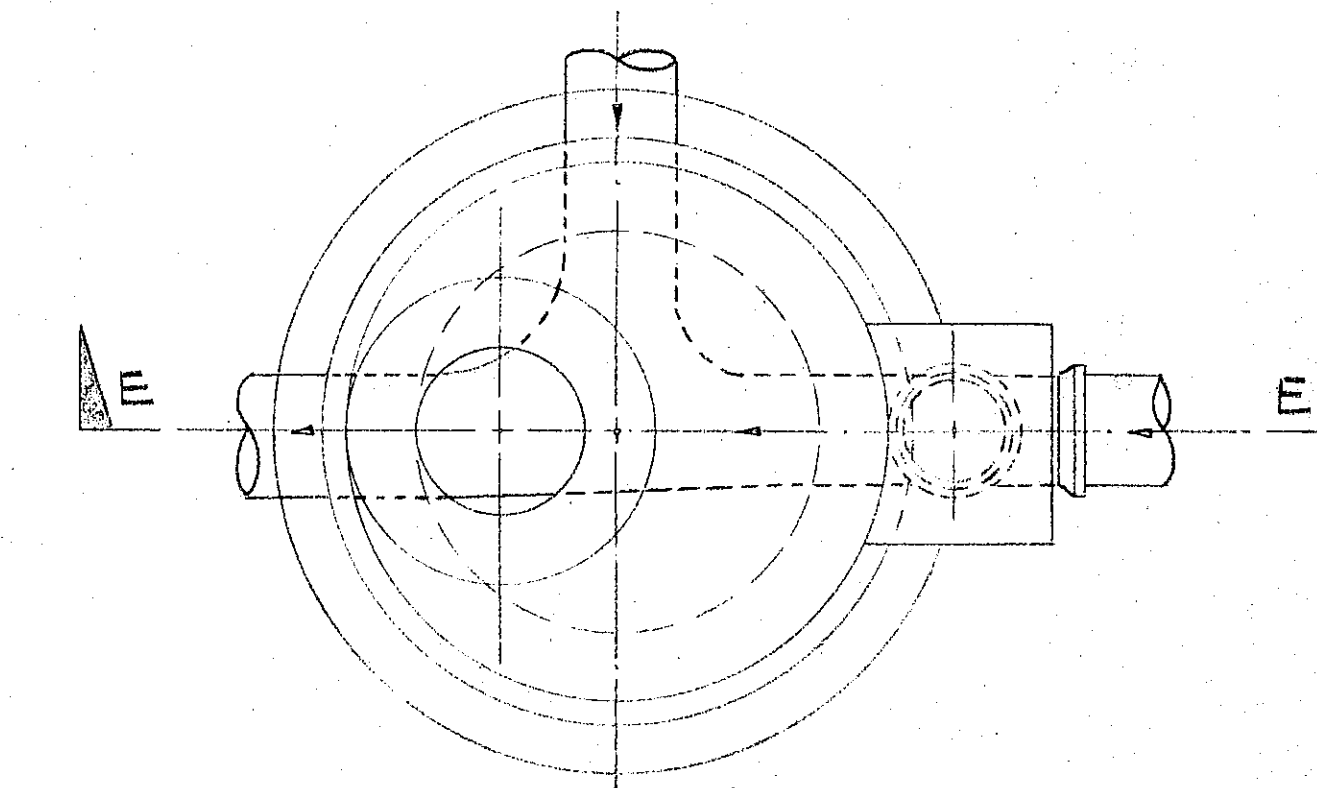
CAST IRON MANHOLE STEPS
SCALE 3/8"=1'-0"



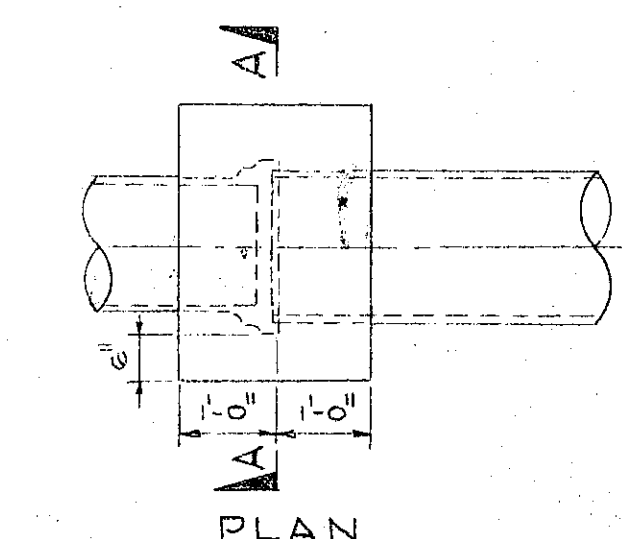
CONCRETE ENCASUREMENT
NOT TO SCALE



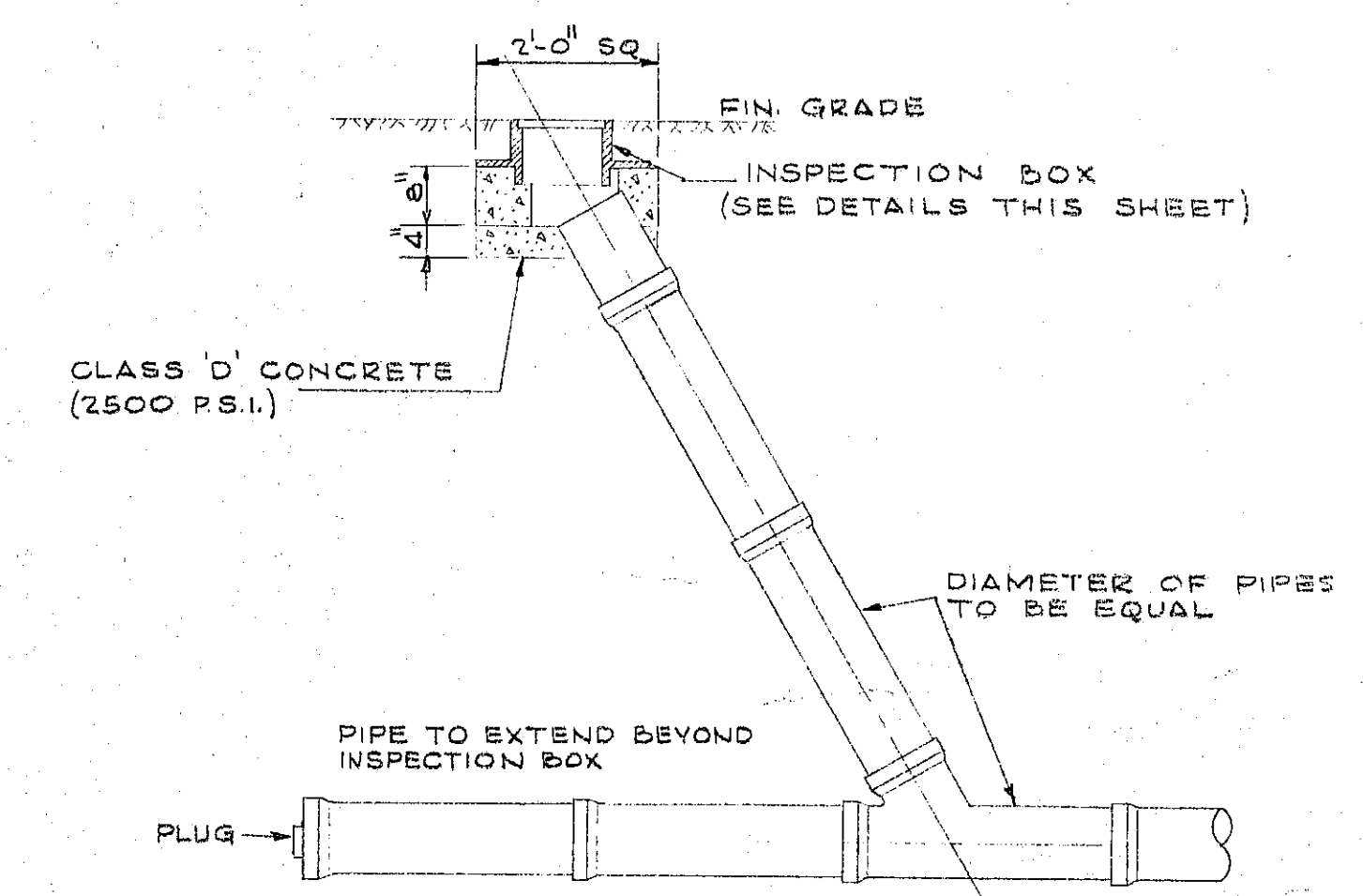
STONE CRADLE DETAIL
NOT TO SCALE



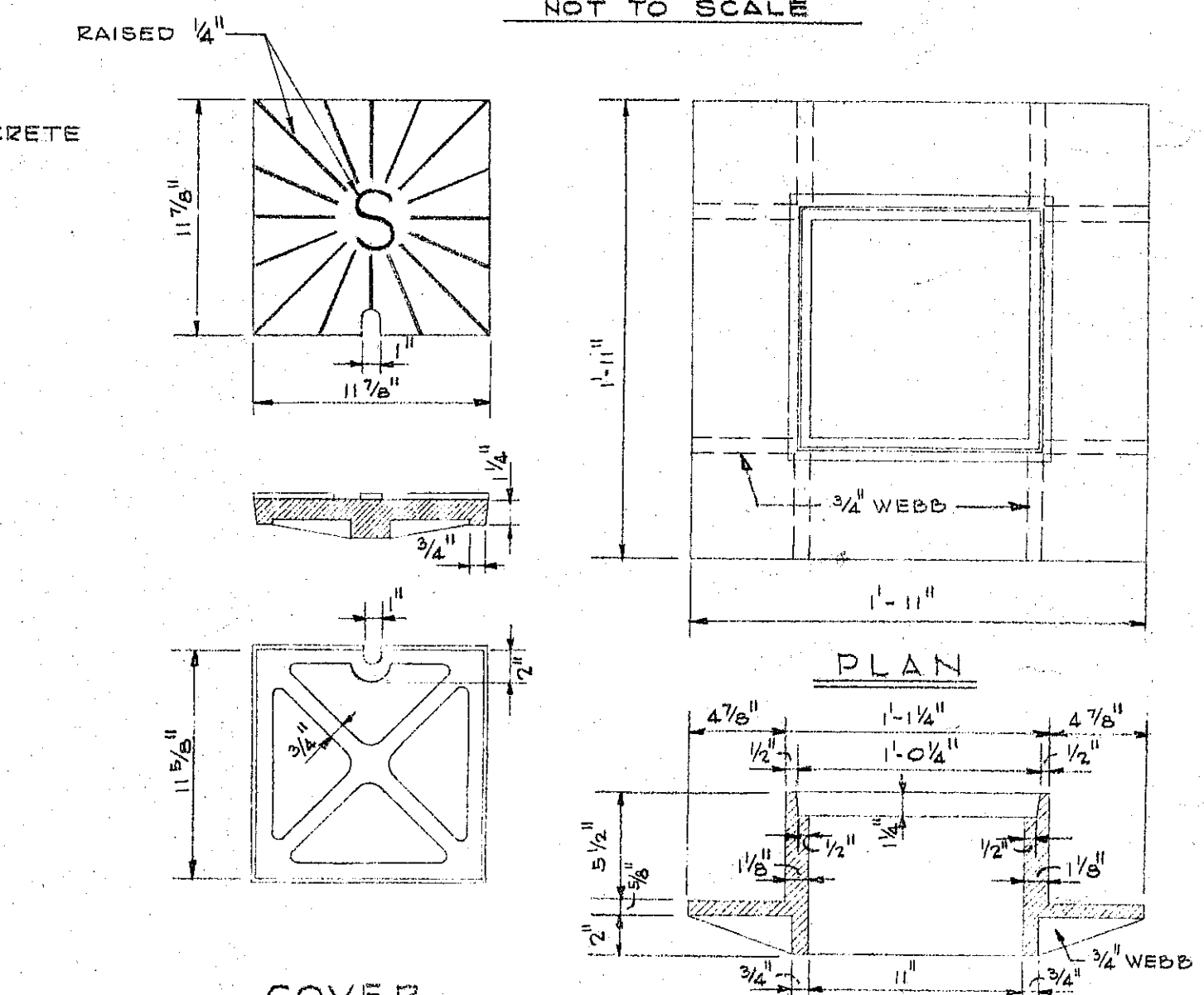
PLAN - DROP MANHOLE
SCALE 1/2"=1'-0"



SECTION A-A
CONCRETE ENCASUREMENT
FOR JOINING DIFFERENT TYPES OF PIPE
NOT TO SCALE



CLEANOUT CONNECTION DETAIL
NOT TO SCALE



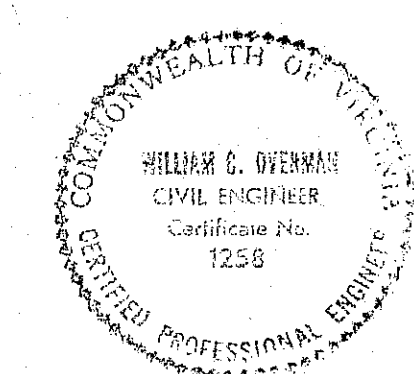
CONCRETE CAP
NOT TO SCALE



COVER

INSPECTION BOX FRAME & COVER
SCALE 1/2"=1'-0"

NOTE: REFER TO SPECIFICATIONS FOR MANHOLES CONSTRUCTED OF CONCRETE MANHOLE BLOCK AND PRECAST CONCRETE MANHOLES.



ROANOKE COUNTY SANITATION AUTHORITY ROANOKE COUNTY, VIRGINIA		
SANITARY	SEWERAGE	SYSTEM
PROJECT NO. 63-4		
DETAILS		
DESIGNED: WCO	LANGLEY & McDONALD	SCALE: AS SHOWN
PLOTTED: J.E.N.	CONSULTING ENGINEERS	DATE: JULY 1, 1963
DRAWN: H.L.S.	NORFOLK, VA.	SHEET: 24 OF 24
CHECKED: WCO		DWG. NO. 616115