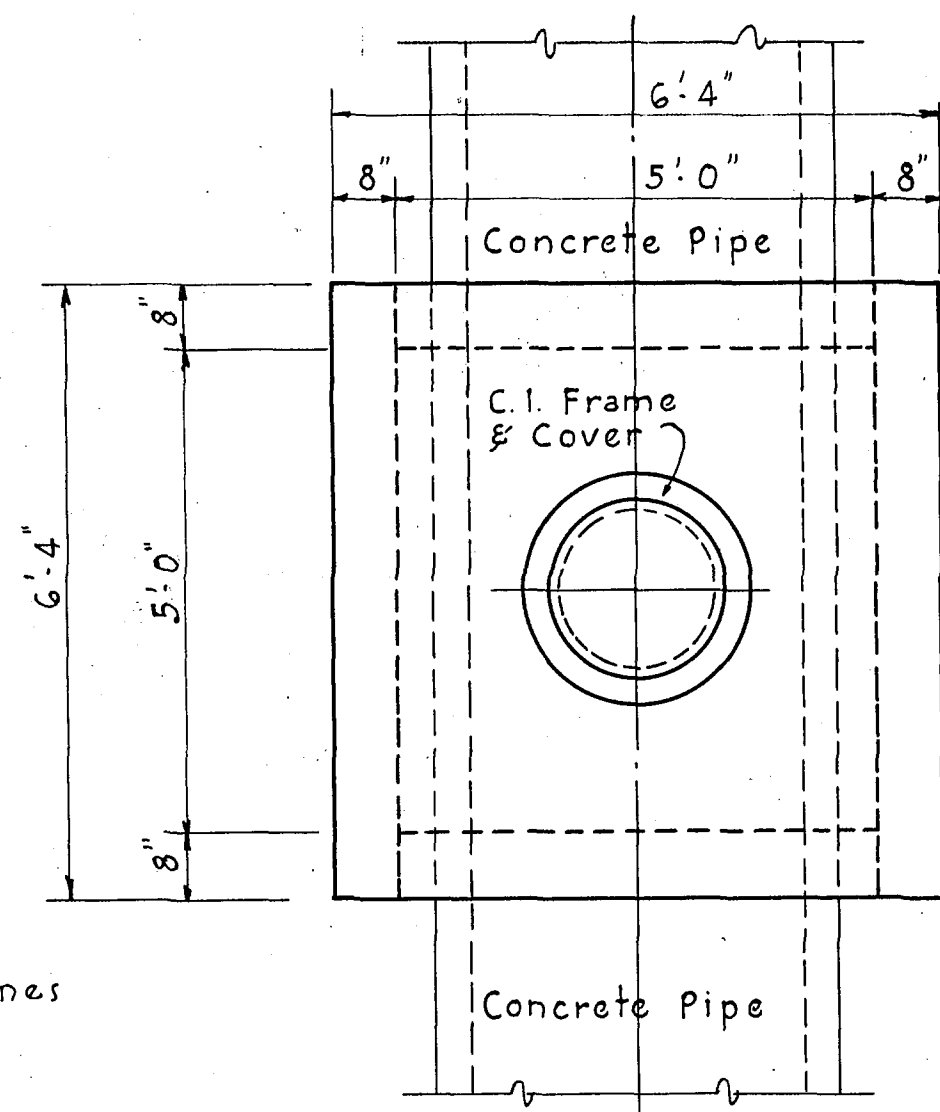
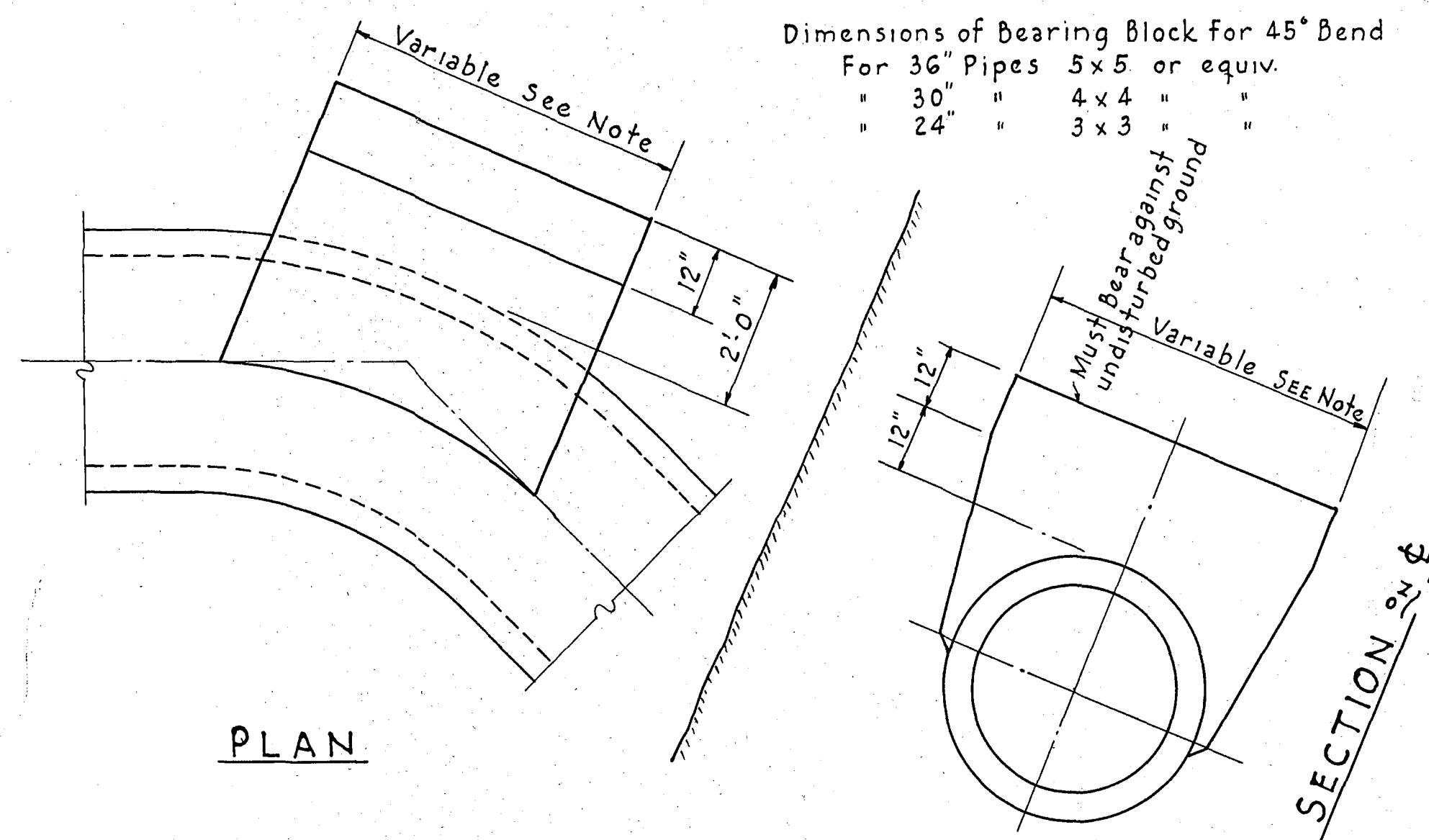


Reducers required in 36" and 30" lines
Valves in 36" line to be 30"
" " 30" " " 24"
Valves in lines under 30" to be
same size as pipe except as
otherwise shown.



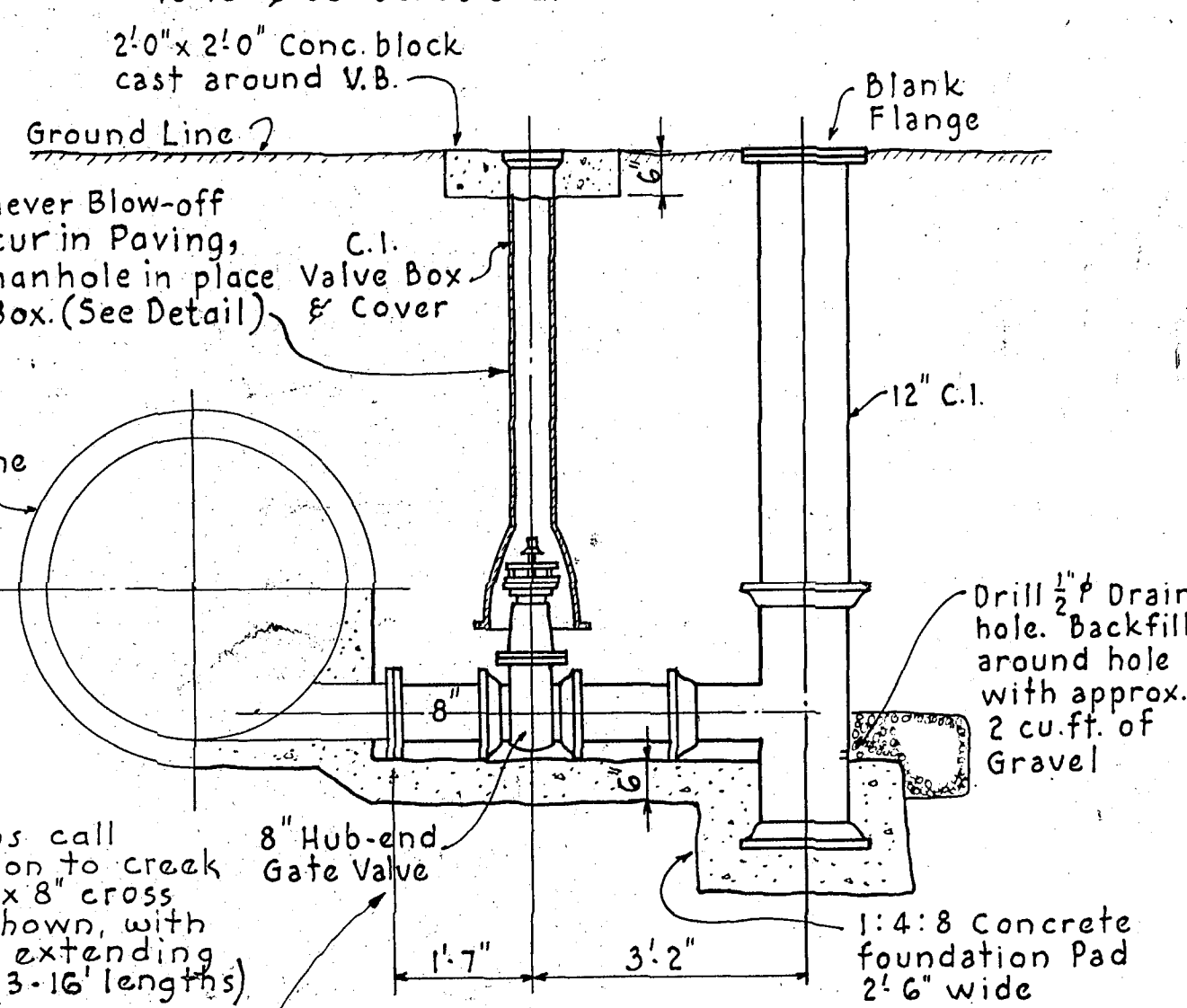
PLAN



BUTTRESS FOR 45° BEND

Scale $\frac{1}{2}'' = 1'-0''$

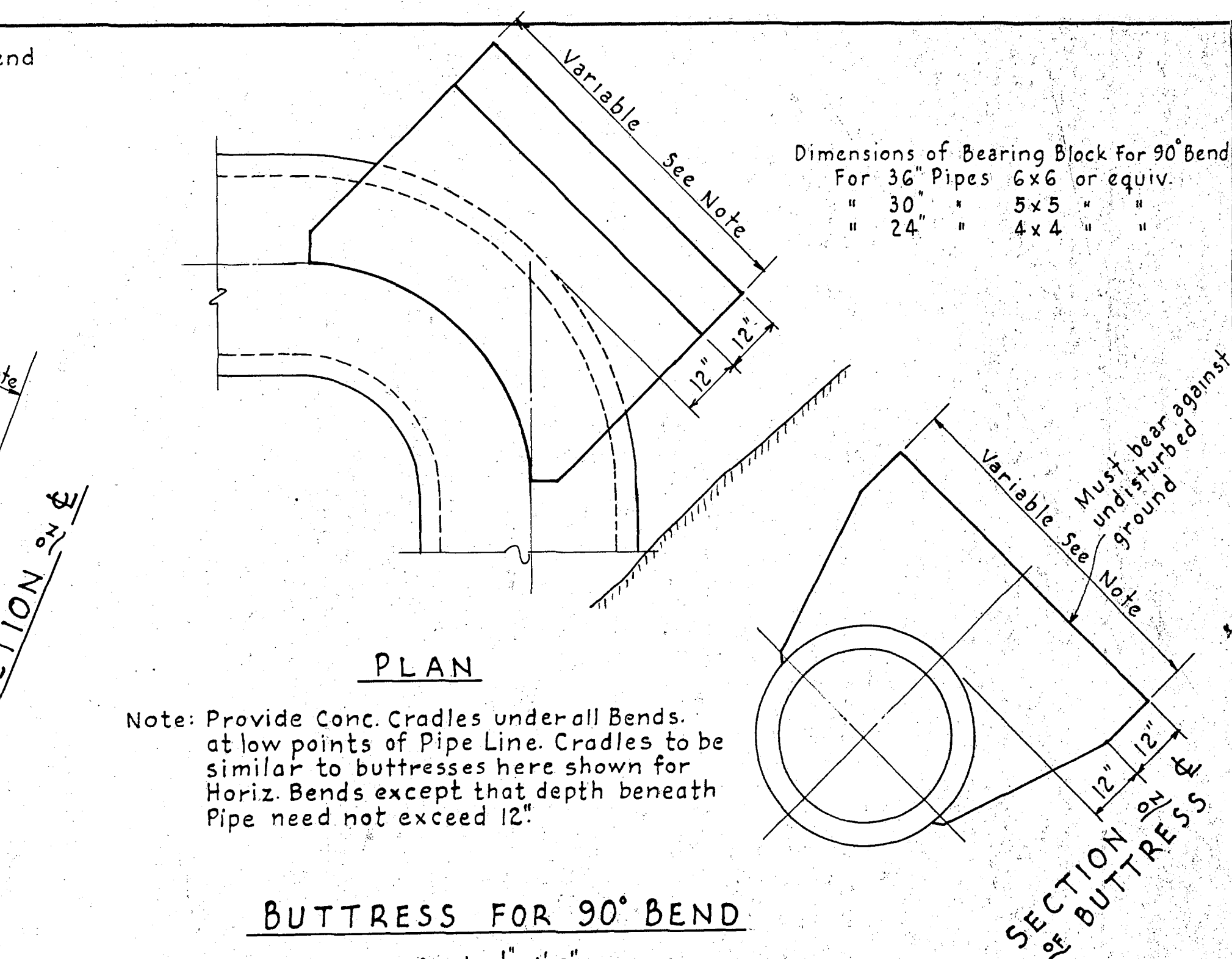
Note: Buttresses to be provided for all bends of variable degrees in proportion to 45° & 90° bends shown.



BLOW-OFF DETAIL

Scale : $\frac{1}{2}'' = 1' 0''$

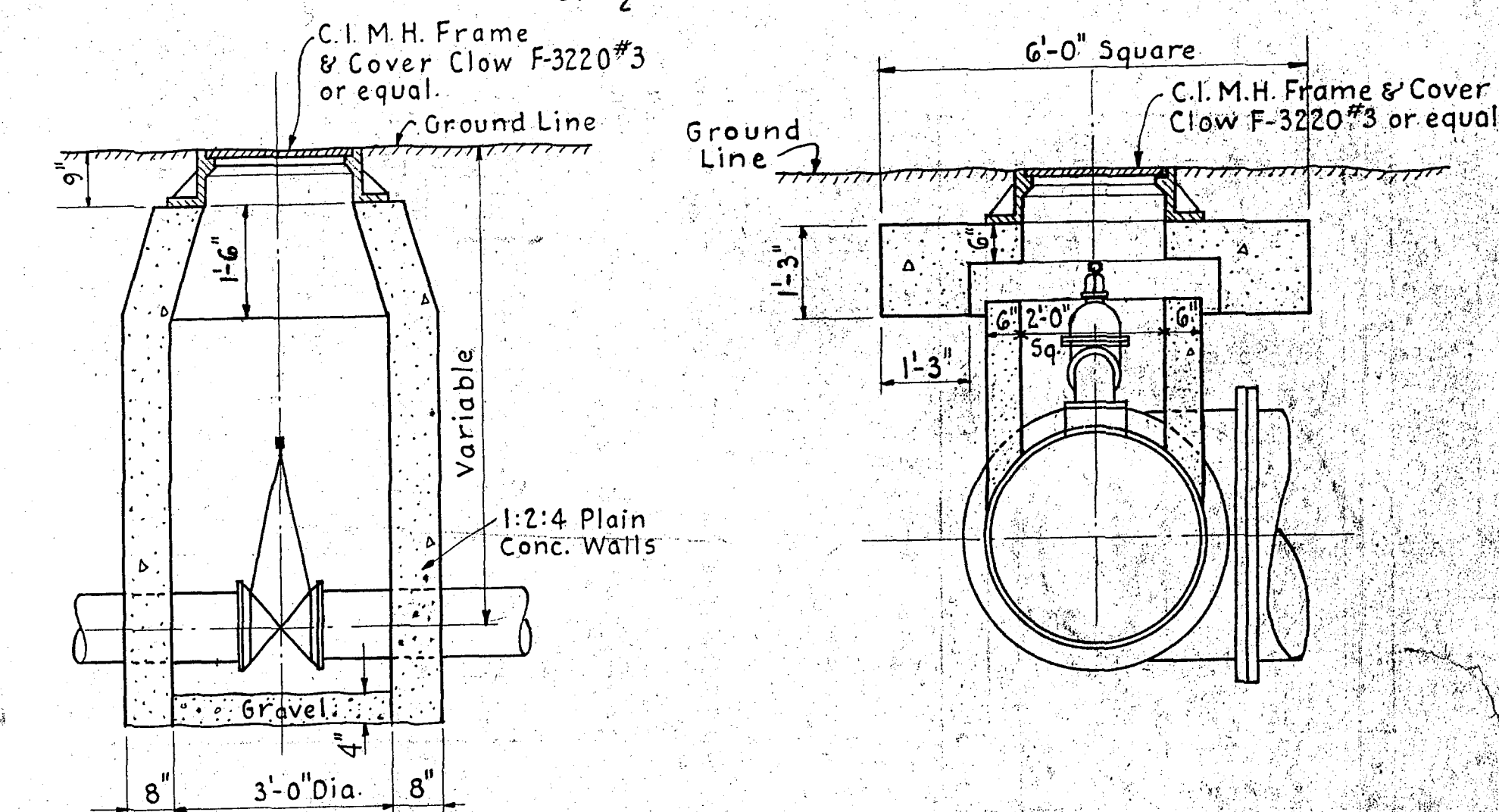
Use 12" pipe & valve
in Locations where
so indicated.



BUTTRESS FOR 90° BEND

Scale: $\frac{1}{2}'' = 1'-0''$

Note: Provide Conc. Cradles under all Bends.
at low points of Pipe Line. Cradles to be
similar to buttresses here shown for
Horiz. Bends except that depth beneath
Pipe need not exceed 12".



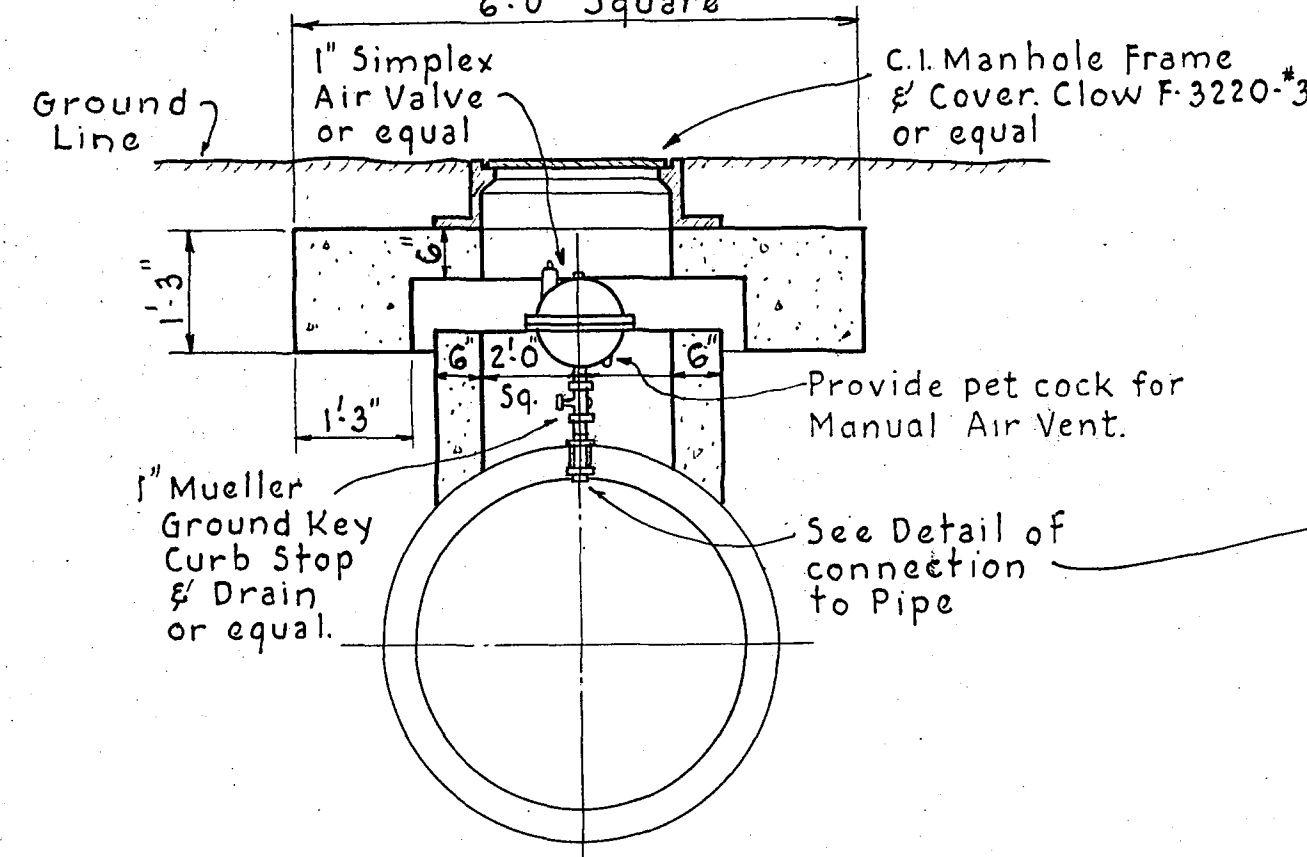
DETAIL OF VALVE MANHOLE
FOR ALL VALVES 12" & UNDER
IN PAVING.

Scale: $\frac{1}{2}" = 1'-0"$

DETAIL OF BYPASS VALVE M.H.
IN PAVING

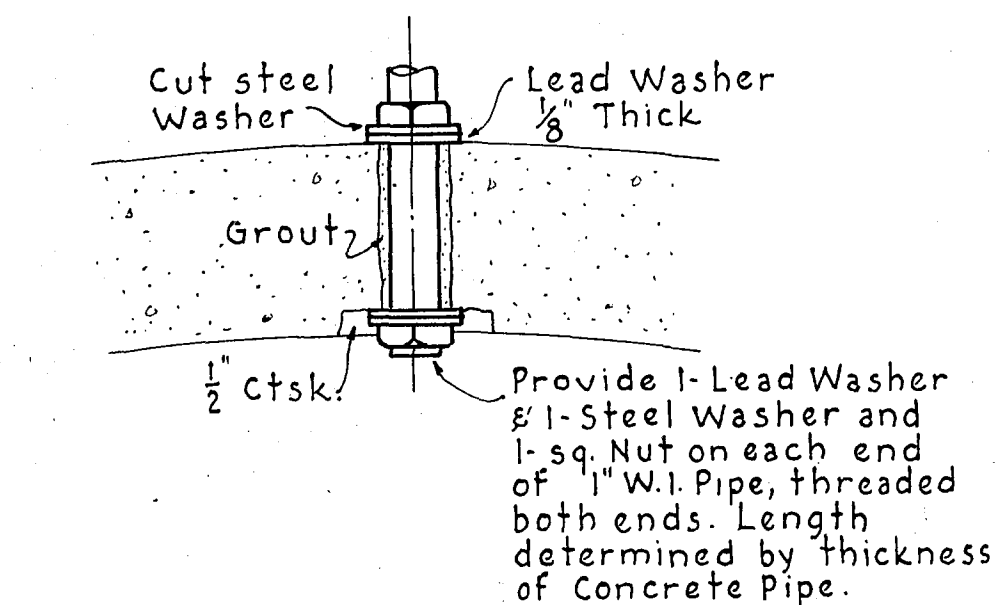
IN PAVING

Note: The above M.H. detail applies to 16" Valves and larger. 12" and smaller have no bypass or gearing and shall be set vertical and equipped with C.I. Valve Box & Cover set in 2'-0" x 2'-0" Conc. block. Where 12" & smaller valves occur in Paving, provide Manhole in place of Valve Box. (See Detail.)



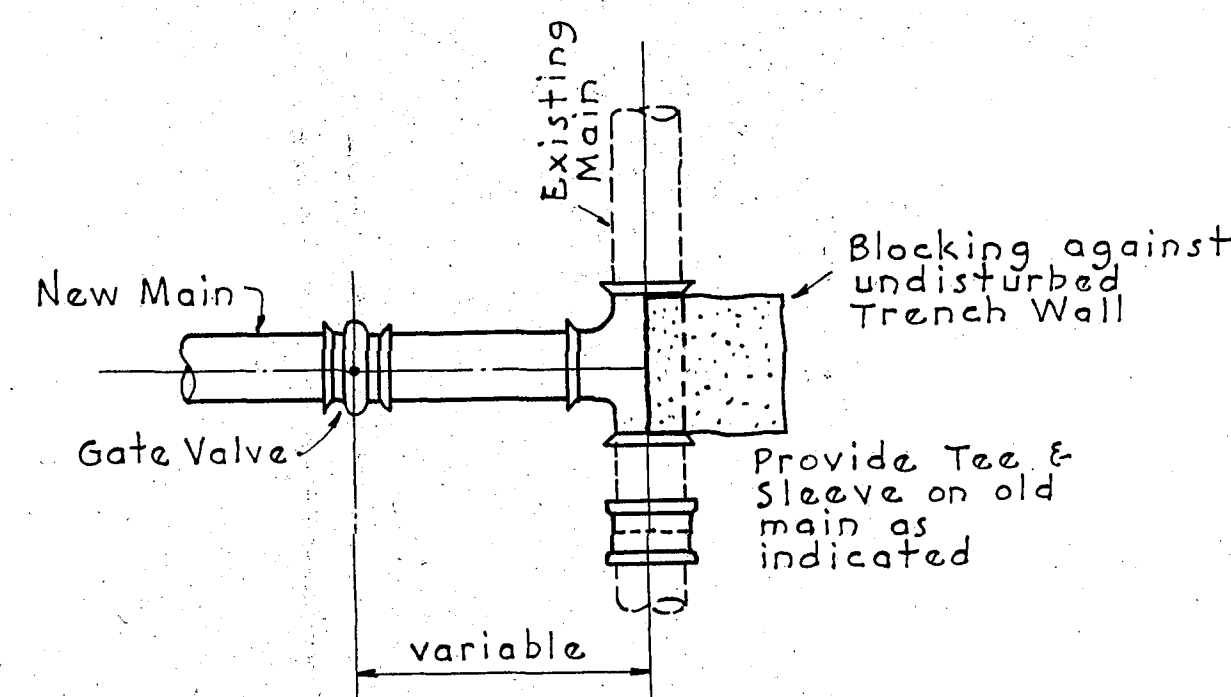
DETAIL OF
AIR VALVE
MANHOLE

Scale: $\frac{1''}{2} = 1:0''$



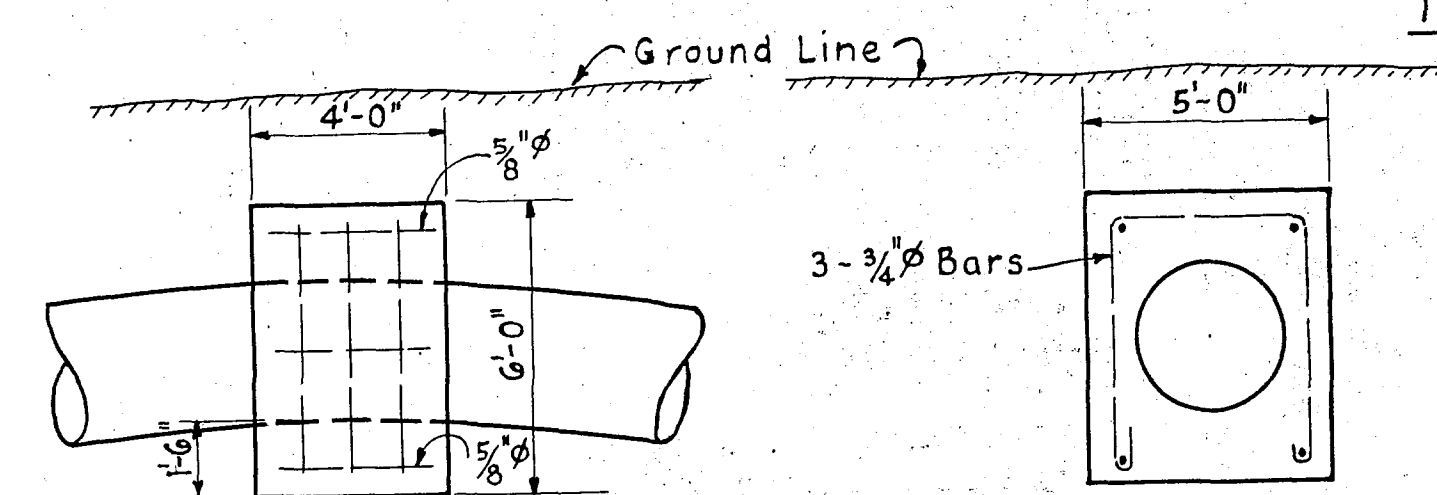
DETAIL OF
AIR VALVE CONNECTION
TO CONCRETE PIPE

Scale: 3" = 1'-0"



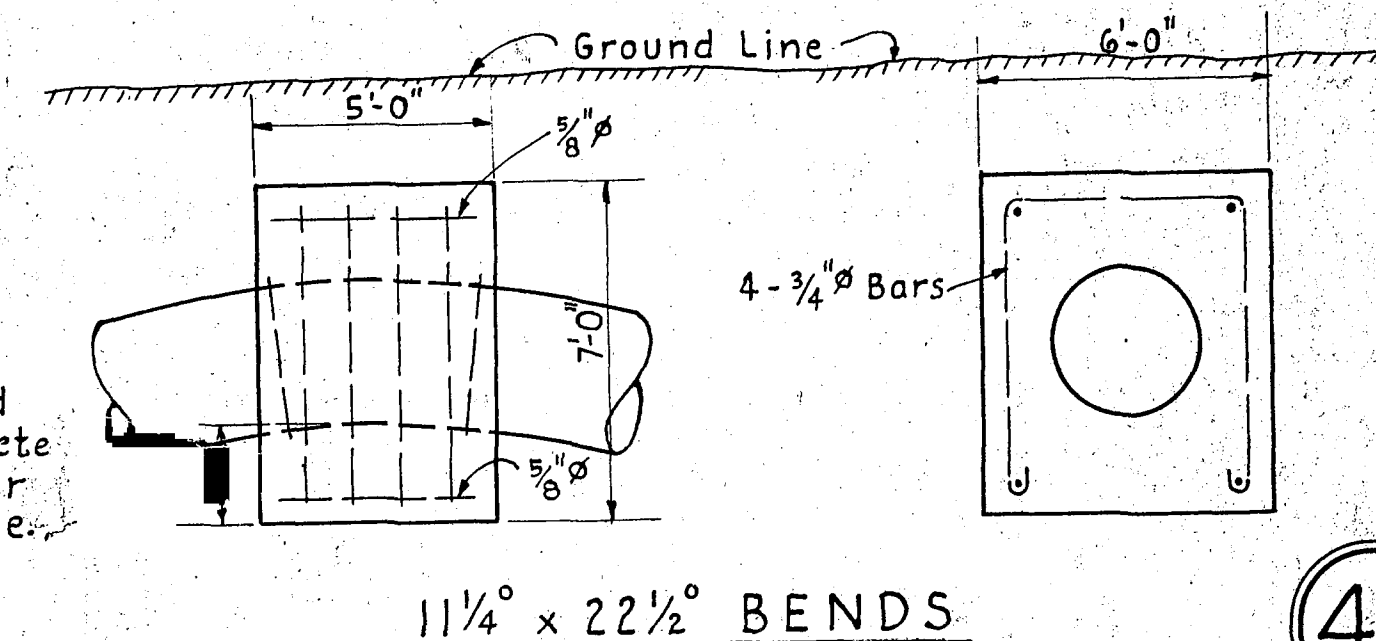
TYPICAL DETAIL OF
CONNECTION WITH EXISTING
MAIN AT 90° ANGLE

Note: All bends at summits in Pipe Line to be anchored as here detailed. No Anchorage required for 12" or 16" Pipe Lines. If Concrete pipe is used $\frac{1}{64}$ " Bends and under may be made by deflecting Pipe.



DETAILS OF BEND ANCHORAGE AT SUMMITS IN PIPE LINE

Scale: $\frac{1}{4}'' = 1'-0''$



11 $\frac{1}{4}$ ° x 22 $\frac{1}{2}$ ° BENDS.