



REQUIRED INSTALLATION PRACTICES FOR PIPE IN CASINGS ARE:

1. MINIMUM SIZE OF CASING SHALL BE 12 IN. LARGER THAN THE NOMINAL PIPE DIAMETER.
2. BELL MUST MAINTAIN A MINIMUM OF 1 IN. CLEARANCE FROM CASING WALL.
3. THE PIPE MUST BE BRACED AND ANCHORED IN A MANNER THAT PREVENTS MOVEMENT IN ANY DIRECTION.
4. THE PIPE MUST BE INSTALLED IN A MANNER THAT WILL PERMIT ITS REMOVAL WITH REASONABLE EASE, SHOULD THIS BE NECESSARY AT A LATER DATE.
5. PLACE SPACERS AT NO MORE THAN 2 FT. FROM EACH JOINT AND A MAXIMUM SPACING OF 5 FT. OR LESS AS PER MANUFACTURER'S RECOMMENDATION.
6. SPACERS MUST BE A MAXIMUM OF 1 IN. FROM CASING WALL.
7. CASING SHALL BE STEEL WITH A MINIMUM WALL THICKNESS OF:
 - 1/4 IN. FOR CASINGS UP TO AND INCLUDING 18 IN.
 - 3/8 IN. FOR CASINGS LARGER THAN 18 IN., UP TO AND INCLUDING 24 IN.
 - 1/2 IN. FOR CASINGS GREATER THAN 24 IN., UP TO AND INCLUDING 42 IN.
7. THE MINIMUM THICKNESS FOR ALL CASINGS GREATER THAN 42 IN. DIA. SHALL BE DETERMINED BY THE ENGINEER OF RECORD, AND SUBMITTED FOR REVIEW AND APPROVED BY THE CITY OF WACO PUBLIC WORKS DEPARTMENT, ENGINEERING DIVISION.
8. ALL CASINGS EXPOSED TO THE ATMOSPHERE SHALL BE PAINTED PER STANDARD SPECIFICATIONS AND SHALL BE COATED WITH TNEMEC PERMA-SHIELD SERIES 46H-413 COAL TAR EPOXY.
9. CASING SPACERS SHALL BE UTILIZED AND INSTALLED IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.

PIPE THROUGH CASING DETAIL
(NO SCALE)

DISCLAIMER: THE USE OF THIS STANDARD IS GOVERNED BY THE "TEXAS ENGINEERING PRACTICE ACT". NO WARRANTY OF ANY KIND IS MADE BY THE CITY OF WACO FOR ANY PURPOSE WHATSOEVER. THE CITY OF WACO ASSUMES NO RESPONSIBILITY FOR THE CONVERSION OF THIS STANDARD TO OTHER FORMATS OR FOR INCORRECT RESULTS OR DAMAGES RESULTING FROM ITS USE.



**ENGINEERING
DIVISION**



REVISIONS			
NO.	COMMENTS	BY	DATE
1	MODIFY NOTE 7	MZ	01/25/2023
##	DESCRIPTION	FL	MM/DD/YYYY

DATE
8/25/2021

W-32