



**NOTES:**

1. VERTICAL BENDS SHALL HAVE MEGALUG FITTINGS ON EACH SIDE.
2. SEE STANDARD DETAILS W-3A TO W-3E FOR BLOCKING DETAILS AND TABLES.
3. PROJECT ENGINEER SHALL PROVIDE RESTRAINT LENGTH. RESTRAINT LENGTH MINIMUM IS 25 FT. FROM BEND.

**VERTICAL BEND 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	REPLACE REF TO STD DETAIL WITH NOTE	MZ	01/25/2023
##	DESCRIPTION	FL	MM/DD/YYYY

DATE  
8/25/2021

**W-4**