



GENERAL NOTES:

1. SEE W-1 AND W-4 FOR ADDITIONAL GENERAL NOTES.
2. ALL CALCULATIONS ARE BASED ON INTERNAL PRESSURE OF 200 PSI FOR 24 IN. I.D. PIPE AND SMALLER AND 150 PSI ON 30 IN. AND LARGER.
3. VOLUMES OF VERTICAL BEND THRUST BLOCKS ARE NET VOLUMES OF CONCRETE TO BE FURNISHED. THE CORRESPONDING WEIGHT OF THE CONCRETE (4000 LB/C.Y.) IS EQUAL TO OR GREATER THAN THE VERTICAL COMPONENT OF THRUST ON THE VERTICAL BEND.
4. CONCRETE FOR ALL BEARING SURFACES OF THRUST BLOCKS SHALL BE PLACED AGAINST UNDISTURBED EARTH OR ROCK.
5. WALL THICKNESS (T) ASSUMED HERE FOR ESTIMATING PURPOSES ONLY.
6. CONCRETE FOR BLOCKING SHALL BE 2000 PSI CONCRETE.
7. DIMENSIONS MAY BE VARIED AS REQUIRED BY FIELD CONDITIONS WHERE AND AS DIRECTED BY THE ENGINEER. THE VOLUME OF CONCRETE BLOCKING SHALL NOT BE LESS THAN SHOWN HERE.
8. PRIOR TO CONSTRUCTION, CONTRACTOR SHALL SUBMIT TO THE PUBLIC WORKS DEPARTMENT A LISTING OF ALL MATERIALS TO BE USED. NO WORK SHALL BE UNDERTAKEN PRIOR TO WRITTEN APPROVAL OF THE MATERIAL LIST BY THE CITY PUBLIC WORKS DEPARTMENT.
9. CONCRETE SHALL NOT EXTEND BEYOND JOINTS.
10. USE 6 MIL POLYETHYLENE WRAP OR EQUAL BETWEEN CONCRETE AND BENDS TO PREVENT CONCRETE FROM STICKING TO BENDS.
11. PRE-PACKAGED CONCRETE MIX OR EQUIVALENT WILL ONLY BE APPROVED ON LINES 12 IN. AND SMALLER DIAMETER WITH JOINT RESTRAINTS.
 - VOLUMETRIC CONCRETE MIXER TRUCK CONCRETE WILL BE PERMITTED FOR THRUST BLOCKS.
 - SUBMITTALS OF MIX OR PRODUCT MUST BE PROVIDED.
 - FOR NON-PLANT BATCHED CONCRETE FOR THRUST BLOCK LOCATIONS OF 2 CY OR LESS, MATERIAL SAMPLING AND TESTING FOR COMPRESSIVE STRENGTH WILL BE REQUIRED AT COST OF DEVELOPER'S CONTRACTOR. A MINIMUM OF ONCE PER FIRST USE ON PROJECT AND AS REQUIRED BY THE ENGINEERING INSPECTOR.
 - LOCATIONS WITH QUANTITIES GREATER THAN 2 CY SHALL BE PLACED WITH EITHER PLANT BATCHED CONCRETE DELIVERED BY CONCRETE MIXING TRUCK(S) OR VOLUMETRIC CONCRETE MIXER TRUCK CONCRETE.

GENERAL NOTES: THRUST BLOCKS

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				DATE
			NO.	COMMENTS	BY	DATE	8/25/2021
			##	DESCRIPTION	FL	MO/DY/YEAR	
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