

MINIMUM CUBIC YARDS OF CONCRETE

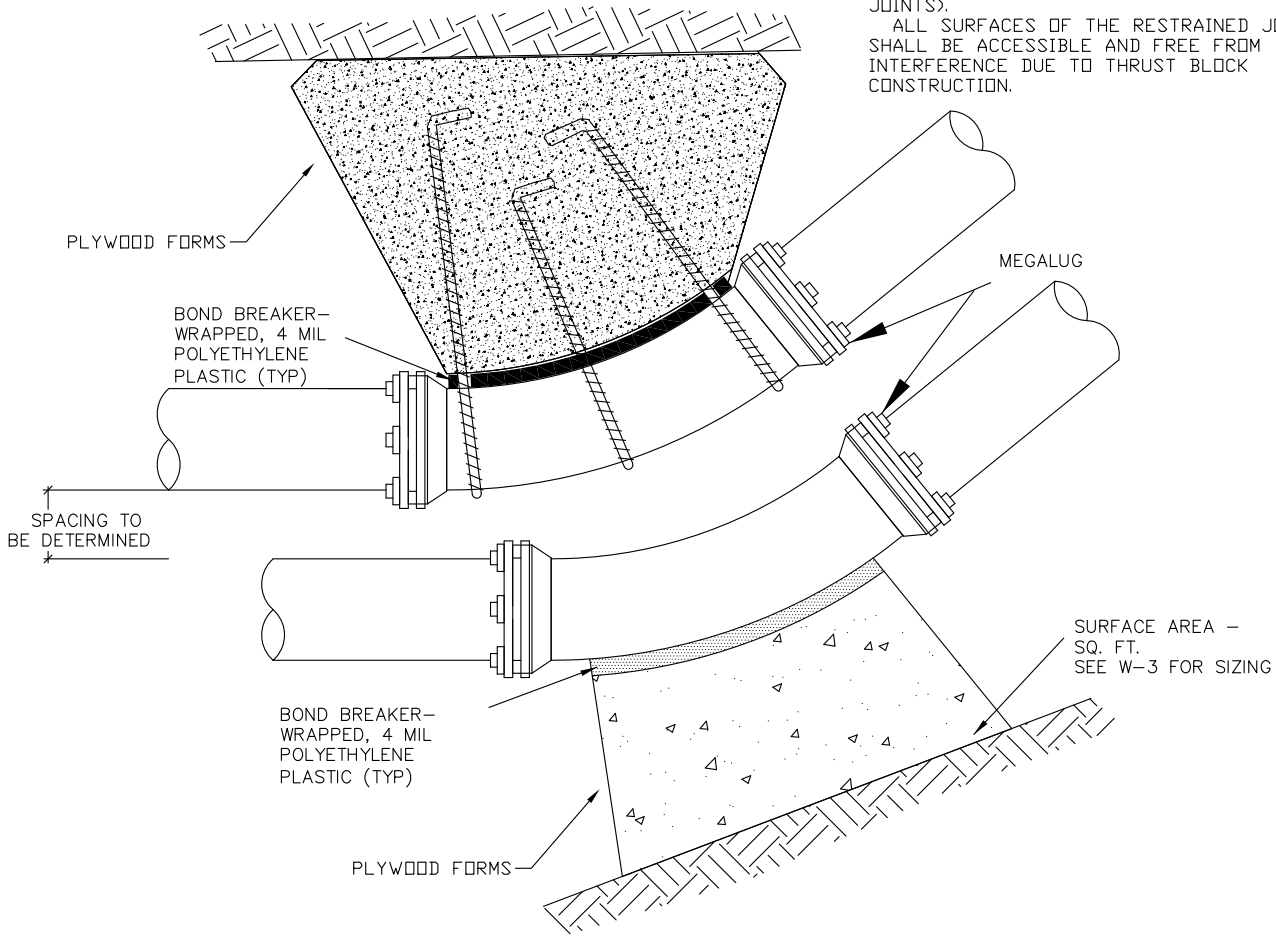
SIZE OF PIPE	BENDS			
	11-1/4°	22-1/2°	45°	90°
4"	0.2	0.4	1.3	N/A
6"	0.2	0.5	1.8	N/A
8"	0.2	0.5	1.8	N/A
10"	0.2	0.8	2.7	N/A
12"	0.3	1.0	3.8	N/A

NA = NOT ALLOWED

NOTE: LARGER THAN 12" TO BE SPECIFICALLY DESIGNED BY ENGINEER. FORMS SHALL BE 3/8" PLYWOOD OR DISTRICT APPROVED EQUIVALENT

USE MEGALUG JOINT RESTRAINT DEVICES OR SIMILAR UPON PRIOR DISTRICT APPROVAL - POLY-WRAPPED PIPE TO SERVE AS BOND BREAKER (NOT TO INTERFERE WITH RESTRAINED JOINTS).


ALL SURFACES OF THE RESTRAINED JOINTS SHALL BE ACCESSIBLE AND FREE FROM INTERFERENCE DUE TO THRUST BLOCK CONSTRUCTION.



HORIZONTAL PARALLEL BENDS  
TOP VIEW

GENERAL NOTES

1. USE MEGALUG JOINT RESTRAINT DEVICES OR SIMILAR UPON PRIOR DISTRICT APPROVAL - POLY-WRAPPED PIPE TO SERVE AS BOND BREAKER (NOT TO INTERFERE WITH RESTRAINED JOINTS). ALL SURFACES OF THE RESTRAINED JOINTS SHALL BE ACCESSIBLE AND FREE FROM INTERFERENCE DUE TO THRUST BLOCK CONSTRUCTION.
2. MINIMUM AREA REQUIRED WILL BE THAT OF AN 8-INCH MAIN.
3. ALL THRUST BLOCKS SHALL BE FORMED. THE MINIMUM THICKNESS FORM MATERIAL SHALL BE 3/8" PLYWOOD OR DISTRICT APPROVED EQUIVALENT.
4. BEARING AREA BASED ON SOIL BEARING PRESSURE OF 2000 lb/sf.
5. EMBED THREE(3) NO. 4 EPOXY-COATED REBAR 18" INTO CONCRETE W/ ENDS BENT 90 DEGREES AS SHOWN.

 EAGLE RIVER WATER & SANITATION DISTRICT	
PARALLEL BENDS W/THRUST BLOCKS	
SCALE: NONE	DATE: 01-01-09
LAST REVISED: 12-31-02	
APPROVED FOR YEAR 2009	
W-04	