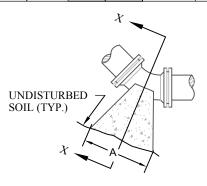
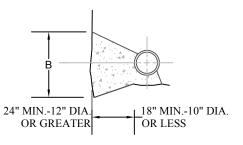
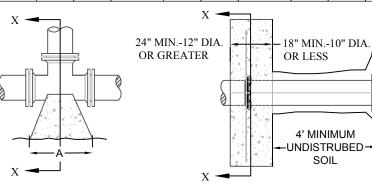
THRUST BLOCK SPECIFICATIONS AND DIMENSIONS																
FITTING	AREA (IN^2)	TEEC		AREA OF THRUST BLOCK (FT^2)	90° BENDS AND DEAD MAN (FT)		AREA OF THRUST BLOCK (FT^2)	45° BENDS AND "Y"'S (FT)		AREA OF THRUST BLOCK (FT^2)			AREA OF THRUST BLOCK (FT^2)			AREA OF THRUST BLOCK (FT^2)
SIZES (IN)		A (FT)	B (FT)		A (FT)	B (FT)		A (FT)	B (FT)		A (FT)	B (FT)		A (FT)	B (FT)	
6	28.3	2.1	1.0	2.1	2.4	1.2	3.0	1.8	0.9	1.6	1.3	0.6	0.8	1.3	0.6	0.8
8	50.3	2.7	1.4	3.8	3.3	1.6	5.3	2.4	1.2	2.9	1.7	0.9	1.5	1.7	0.9	1.5
10	78.5	3.4	1.7	5.9	4.1	2.0	8.3	3.0	1.5	4.5	2.1	1.1	2.3	2.1	1.1	2.3
12	113.1	4.1	2.1	8.5	4.9	2.4	12.0	3.6	1.8	6.5	2.6	1.3	3.3	2.6	1.3	3.3
14	153.9	4.8	2.4	11.5	5.7	2.9	16.3	4.2	2.1	8.8	3.0	1.5	4.5	3.0	1.5	4.5
16	201.1	5.5	2.7	15.1	7.1	3.0	21.3	4.8	2.4	11.5	3.4	1.7	5.9	3.4	1.7	5.9
18	254.5	6.4	3.0	19.1	18.0	CY	27.0	5.4	2.7	14.6	3.9	1.9	7.4	3.9	1.9	7.4
20	314.2	7.9	3.0	23.6	22.2	CY	33.3	6.0	3.0	18.0	4.3	2.1	9.2	4.3	2.1	9.2
24	452.4	22	CY	33.9	32.0	CY	48.0	17.3	CY	26.0	5.1	2.6	13.2	5.1	2.6	13.2



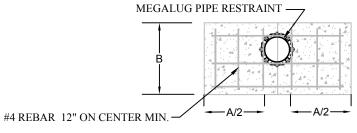




SECTION X-X BENDS & TEES







SECTION X-X
DEAD MAN
BLOCKING

## NOTES:

- 1. BASED ON 200 PSI STATIC PRESSURE PLUS AWWA WATER HAMMER ALLOWANCE ASSUMING 4000 PSF BEARING CAPACITY OF SOIL
- 2. ALL BEARING SURFACES TO BE CARRIED TO UNDISTURBED GROUND.
- 3. THRUST BLOCKS TO BE USED AT ALL LINES OPERATING UNDER PRESSURE.
- 4. THESE DETAILS IN NO WAY LIMIT THE SIZE OR LOCATION OF ADDITIONAL BLOCKING WHEN REQUESTED BY THE COUNTY ENGINEER.
- 5. DEPTH FROM GROUND SURFACE TO TOP OF BLOCKING SHALL BE GREATER THAN HEIGHT OF BLOCKING
- 6. ALL FITTINGS, VALVES, ETC. SHALL BE WRAPPED WITH VISQUEEN OR POLYWRAP BEFORE CONCRETE IS PLACED, TO PREVENT CORROSION OR BONDING OF THE CONCRETE TO THE BOLTS, FITTINGS, OR PIPE.
- 7. WIDTH OF THE THRUST BLOCK SHOULD BE AT LEAST TWO TIMES THE HEIGHT OF THE THRUST BLOCK.
- 8. CUBIC YARDS OF CONCRETE IS SPECIFIED TO OPPOSE THE THRUST FORCE WHEN DIMENSION "A" EXCEEDS 8 FEET
- 9. ALTHOUGH THE BEARING
  STRENGTHS USED IN THIS TABLE
  HAVE BEEN USED SUCCESSFULLY IN
  THE DESIGN OF THRUST BLOCKS AND
  ARE CONSIDERED TO BE
  CONSERVATIVE, THEIR ACCURACY IS
  TOTALLY DEPENDANT ON
  ACCURATE SOIL IDENTIFICATION
  AND EVALUATION. THE ULTIMATE
  RESPONSIBILITY FOR SELECTING THE
  PROPER BEARING STRENGTH OF A
  PARTICULAR SOIL TYPE RESTS WITH
  THE DESIGN ENGINEER.



## LINCOLN COUNTY PUBLIC WORKS

115 W. MAIN STREET LINCOLNTON, NC 28092 Phone (704) 736-8497 Fax (704) 736-8499

## THRUST BLOCKING DETAIL

APPROVED:	MCN	12/31/2	2013	DRAW	JDH
SCALE:		FIGURE :		WS	5-01