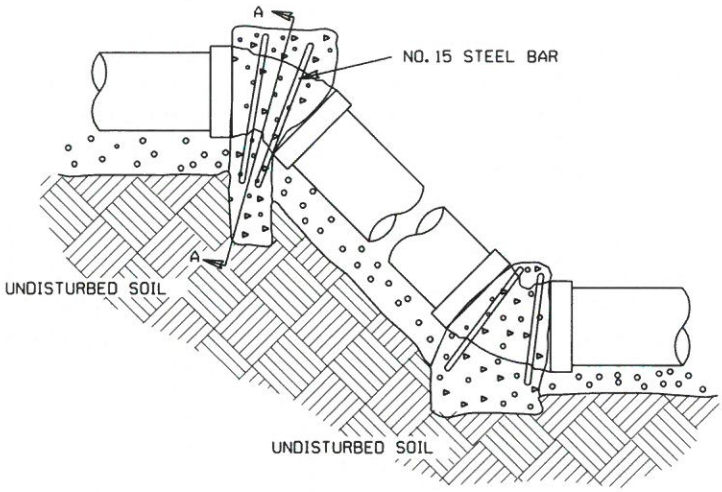
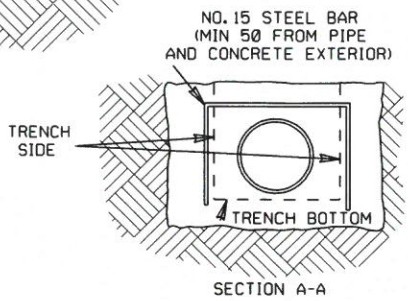


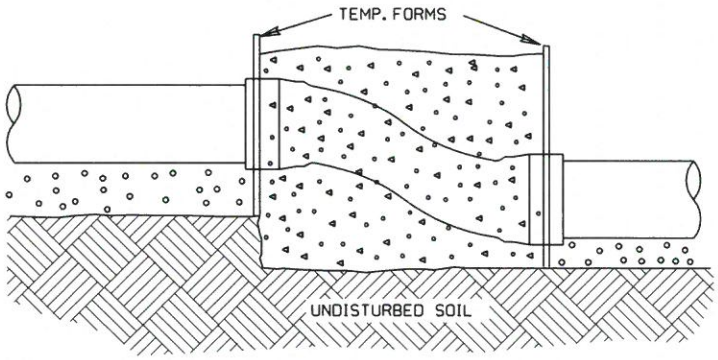
VERTICAL BEND



SECTION A-A

REQUIRED BEARING AREA

	45° BEND									
DIA (mm)	100	150	200	250	300	350	400	450	500	600
AREA(m^2)	0.101	0.208	0.360	0.540	0.762	1.101	1.431	1.797	2.204	3.142
	22.5 BEND									
DIA (mm)	100	150	200	250	300	350	400	450	500	600
AREA(m^2)	0.051	0.106	0.183	0.275	0.389	0.561	0.730	0.916	1.123	1.602
	11.25 BEND									
DIA (mm)	100	150	200	250	300	350	400	450	500	600
AREA(m^2)	0.026	0.053	0.092	0.138	0.195	0.282	0.367	0.460	0.564	0.805



VERTICAL OFFSET

NOTES:

1. ALL DIMENSIONS ARE IN MILLIMETRES UNLESS OTHERWISE SPECIFIED.
2. DESIGN BASIS:
   a. HYDRAULIC PRESSURE 1035kPa (150 psi)
   b. SOIL BEARING CAPACITY 72kPa (1500 lb/sq.ft) (MEDIUM SOFT CLAY)
3. TEMPORARY BLOCKING MUST BE APPROVED BY THE ENGINEER.
4. CONCRETE STRENGTH SHALL BE 25MPa AT 28 DAYS.
5. CONCRETE TO BE SULPHATE RESISTANT ACCORDING TO CSA-A3000-13.
6. CONCRETE TO BE CLEAR OF BELLS AND PIPE.
7. CONCRETE TO BE PLACED UNDER ALL FITTINGS.
8. CONCRETE THRUST BLOCK REQUIRED FOR ALL FITTINGS.
9. BEARING SURFACE MUST BE ON UNDISTURBED SOIL.

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EPCOR

VERTICAL BEND AND OFFSET THRUST BLOCK DETAIL

APPROVED	DRAWN BY	APPROVED	DRAWING NUMBER
MARCH 2017	DV/CW	DIRECTOR, WATER DISTRIBUTION AND TRANSMISSION	2511-04
SCALE	CHECKED BY		REVISION 0
N T S	David M.		