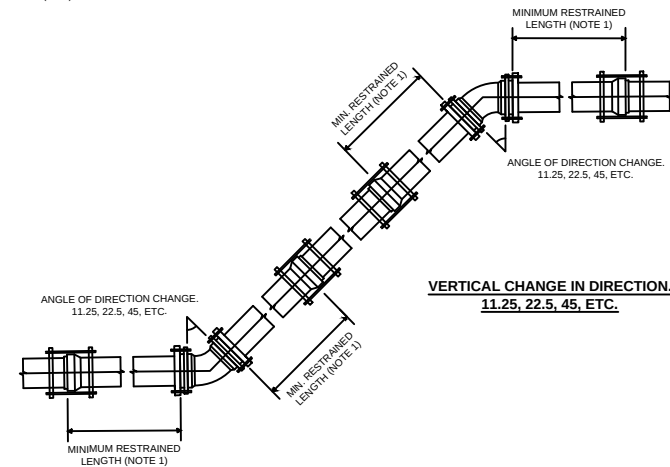
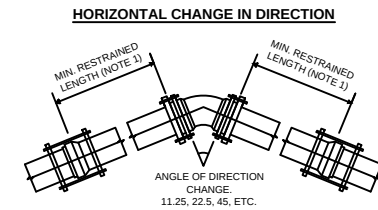
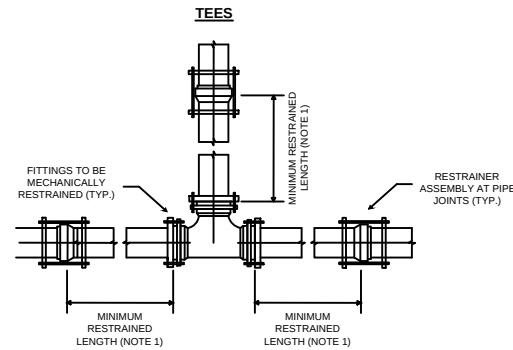
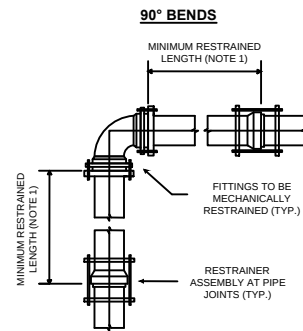
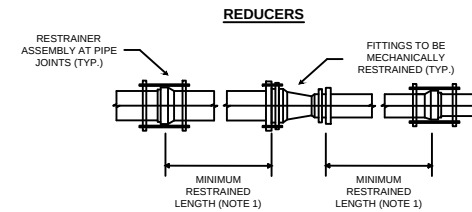
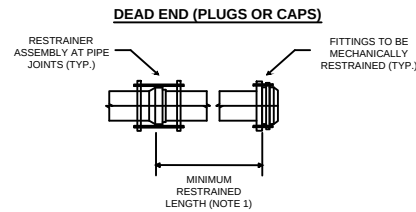
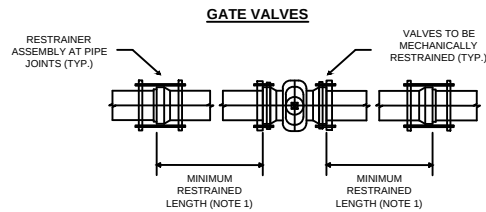




NOTES:

1. THE MINIMUM RESTRAINED LENGTHS ARE TO BE CALCULATED BASED ON THE MANUFACTURER'S RECOMMENDATIONS AND TO THE SATISFACTION OF THE TOWN.
2. IN ADDITION TO NOTE 1, A MINIMUM OF ONE (1) PIPE JOINT SHALL BE RESTRAINED ON EACH SIDE OF THE FOLLOWING:
 - a) ALL HORIZONTAL BENDS
 - b) ALL VERTICAL BENDS
 - c) ALL DEAD ENDS (PLUGS & CAPS)
 - d) EVERY PIPE JOINT WITHIN A HYDRANT LEAD
 - e) ALL VALVES
 - f) ALL REDUCERS
 - g) ALL SLEEVES
3. 90 DEGREE BENDS SHOULD BE AVOIDED WHERE POSSIBLE.
4. FOR ADDITIONAL WATERMAIN SPECIFICATIONS, REFERENCE THE TOWN OF INNISFIL ENGINEERING DESIGN STANDARDS AND SPECIFICATIONS MANUAL SECTION NO. 6.
5. TYPES AND MANUFACTURERS OF RESTRAINT DEVICES SHALL BE AS PER APPENDIX "B5" OF THE TOWN OF INNISFIL ENGINEERING DESIGN STANDARDS AND SPECIFICATIONS MANUAL.
6. REFERENCE OPSD 1103.010 & OPSD 1103.020 FOR THRUST BLOCK SPECIFICATIONS.



**TYPICAL RESTRAINER
INSTALLATION**

DRAWN: A&A

APR'D:

SCALE: N.T.S.

DATE: JUNE 2011

3.	2019 STANDARDS UPDATE	TOI	MAY 2019
2.	TO REFLECT TOWN STANDARDS	TOI	APRIL 2018
1.	REVISED TOWN LOGO	TOI	APRIL 2015
NO.	REVISIONS	APR'D	DATE

METRIC
ALL DIMENSIONS IN MM
UNLESS OTHERWISE NOTED

**TOISD
710**