

CHARLOTTE WATER
ACITY OF CHARLOTTE DEPARTMENT
STANDARD DETAILS
WATER

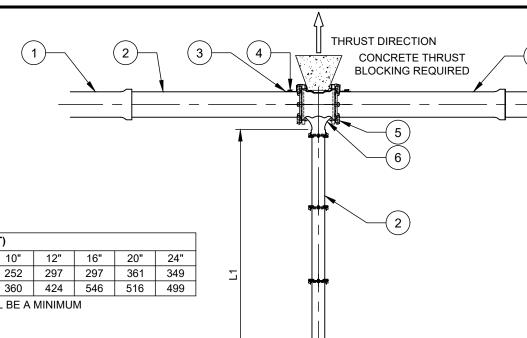
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NO SCALE VERSION 1.0 DATE

04/2024

DETAIL 10.14.1



TEE - L1 (FEET) DIAMETER OF BRANCH (INCHES) 6" 10" DIP 158 207 252

296

FIRST JOINT ON EACH SIDE OF TEE ON RUN SHALL BE A MINIMUM OF 10' FROM THE TEE.

226

POLYWRAPPED DIP OR PVC

SLIP JOINT PIPE.

- RESTRAINED JOINT PIPE.
- 3. HDPE WRAPPED AROUND FITTING AND WEDGE ACTION RESTRAINT GLAND.
- 2 EACH x 2" CIRCUMFERENTIAL DUCT TAPE OR HDPE ZIP TIES.
- MECHANICAL JOINT DUCTILE IRON COMPACT FITTING.
- ALL FLANGE DUCTILE IRON TEE.

DESIGN BASIS:

DIPRA "THRUST RESTRAINT DESIGN FOR DIP" LAYING CONDITION: TYPE 2 SOIL DESIGNATION: SILT 1 DEPTH OF COVER: 3' MINIMUM (SEE NOTE c.) **DESIGN PRESSURE: 200 PSI** SAFETY FACTOR: 2.0

NOTES:

- 12" AND SMALLER DIP MAY BE SLIP JOINT PIPE WITH GRIP RESTRAINT GASKETS
- 16" AND LARGER DIP SHALL BE FACTORY RESTRAINT JOINT PIPE AND FITTINGS.
- DEPTH OF COVER FOR 16" AND 20" PIPE IS 4' AND FOR 24" PIPE IS 5'.
- DESIGN ENGINEER CAN SUBMIT ALTERNATIVE DESIGN BASIS FOR RESTRAINED JOINT LENGTH CALCULATIONS FOR OWNER REVIEW.