The selection and use of this Standard Drawing, while designed in accordance with generally accepted engineering principles and practices, is the sole responsibility of the user.

Casing Spacers & End Seals

Notes:
1. Provide a spacer within 6" of each casing end. Provide intermediate spacers as required, not to exceed the maximum distance specified by the manufacturer.
2. Install casing seal per manufacturer requirements to prevent tensing seal during backfill.

SLEEVED AND CASED PIPE

Note:
All material and workmanship shall be in accordance with City of Portland Standard Construction Specifications.

Effective Date: Dec 13, 2004
Calc. Book No.: PwB-1
Baseline Report Date: 12/19/2009
Standard Drawing No.: P-770