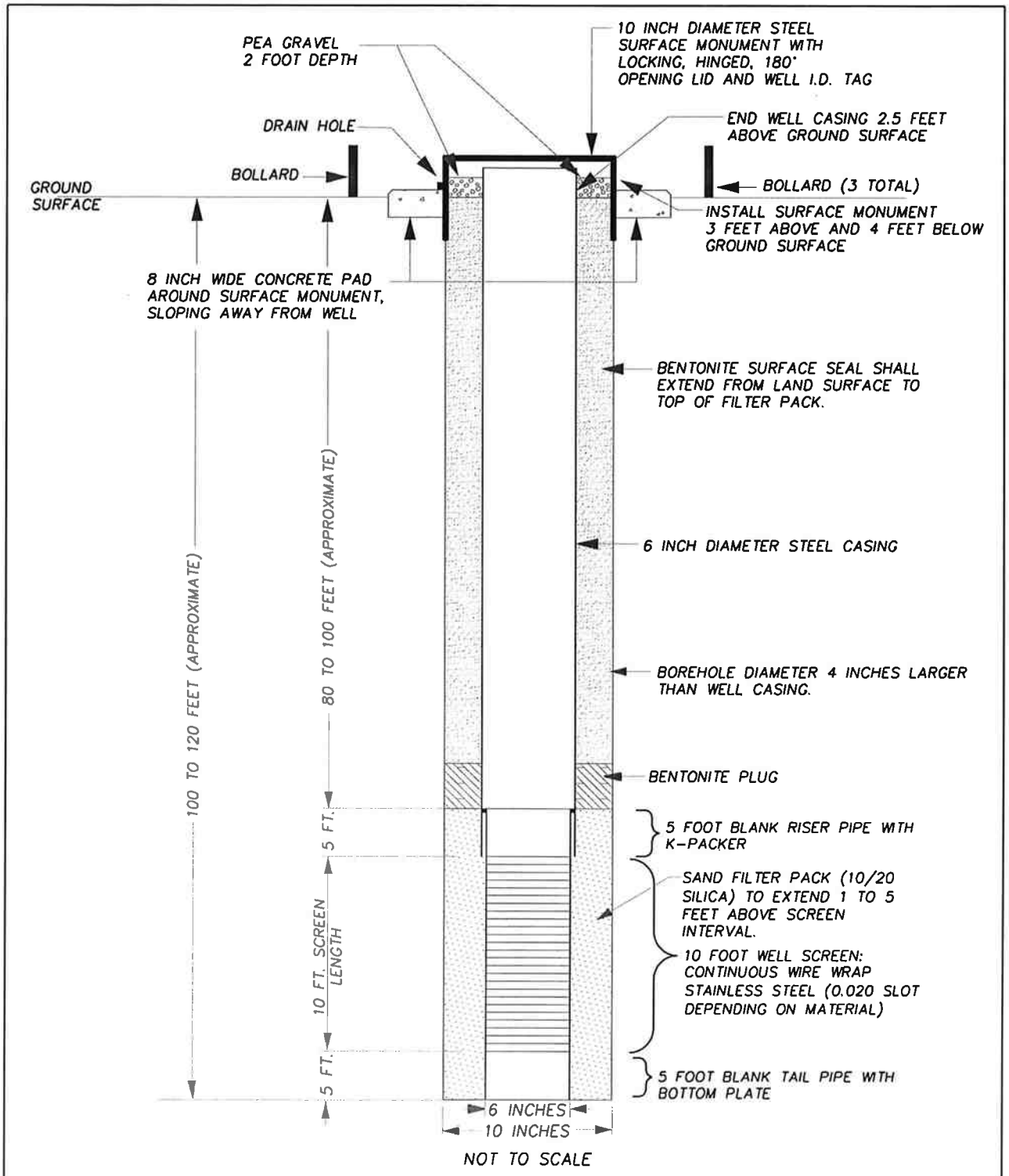
6.300 Groundwater Monitoring Wells

Requirements for installing a long-term groundwater monitoring well will be determined by Community Planning and Development in coordination with the Public Works Groundwater Protection Program during plan review stage. The installation shall be performed by a state-licensed contractor and overseen by a state-licensed hydrogeologist. City of Olympia Groundwater Protection Program staff must be consulted on well site location and City of Olympia Water Quality Program staff must be on site for well installation.

The well should be completed in compliance with WAC 173-160, Resource Protection Wells, using a 6-inch-diameter, steel casing. The location of the well shall be surveyed after installation. Elevations at the top of the well casing, and the ground surface shall also be surveyed. Survey information shall be provided to the Water Quality Program or the Groundwater Protection Program.

Depth and location of the monitoring well will be determined based on the site specific conditions. Screening should be continuous wire wrap stainless steel. The length of the screened section and the slot size should be determined based on the nature of the soils encountered during drilling. Similarly, the sand filter pack should be selected based on the soils and well screen. The well should be developed after construction. This should involve using a combination of surging and bailing until the water is clear.

See Standard Drawing No. DG6-27 for detailed requirements.



NOTES:

1. THIS WELL DESIGN IS FOR GUIDANCE PURPOSES ONLY. THE DEVELOPER/DRILLER SHALL ENSURE THE FINAL DESIGN MEETS REQUIREMENTS AS PER WAC 173-160.
2. INSTALL A GRUNDFOS 2-INCH SUBMERSIBLE PUMP DEDICATOR SYSTEM INSIDE WELL CASING.
3. INSTALL A 6-INCH CAMPBELL WELL SEAL WITH A 1.5-INCH PVC DROP PIPE AND TWO ADDITIONAL ACCESS PORTS INSIDE WELL CASING.

APPROVED BY	REVISED DATE	CITY OF OLYMPIA	STD. PLAN NO.
CITY ENGINEER	9/09/2008	RESOURCE PROTECTION MONITORING WELL DESIGN	DG6-27

DG6-27.DWG