

## INSTRUCTIONS FOR USE

### Construction Specification 12 – Relief Wells

#### 1. Applicability

Construction Specification 12 is applicable to the construction of pressure relief wells in foundations of structures.

#### 2. Material Specification

Material Specification 521, Aggregates for Drainfill and Filters, and 554, Steel Pipe, complement Construction Specification 12.

#### 3. Included Items

Items to be included in contract specifications and drawings follow:

- a. Plan location of each well
- b. Profile along the line of wells showing the spacing and estimated depths of the wells
- c. Sectional elevation of typical wells showing:
  - 1) Location of the well screens, if required
  - 2) Diameter and vertical extent of the filter
  - 3) Details of the outlet at the upper end of the filter
  - 4) Details of couplings and special fittings and appurtenances, such as tees, check valves, caps, and appurtenant housings
- d. Special limits on time of installation. For example, relief wells must be installed before any structural load is placed on the foundation or before a specific phase of construction.
- e. The type and size of pipe
- f. The type and size of well screens including the size and pattern of screen openings or slots
- g. The grading requirements of the filter material
- h. Section 7, note in Section 13 when well development is required
- i. Acceptable methods of plugging abandoned wells in Section 13. Requirements placed on the contractor must be in conformance with State and local regulations for this activity.

#### **4. Methods**

Two methods are included in Section 11, Measurement, and three methods in Section 12, Payment. These methods are self-explanatory, but it must be noted that Methods 1 and 2 of Section 11 are, respectively, complementary to Methods 1 and 2 of Section 12.

When specifications are prepared using electronic procedures and all methods but one are deleted for use in the contract specification, delete from the last paragraph, "*All Methods – The following provisions apply to all methods of measurement and payment.*" Left justify the remaining text.

#### **5. Items of Work and Construction Details**

Starting at the top of page 12–5, prepare and outline job specific "Items of Work and Construction Details" (IWCD) in accordance with these instructions. For ease of utilization, the use of recyclable color paper for the IWCD should be considered.