

WV ENGINEERING GENERAL SPECIFICATIONS

_____ Land Owner _____ Field Office

_____ County _____ Date

All loose rock, sediment, logs, and vegetation that obstruct the free discharge of the spring shall be removed and disposed of so that they will not endanger the spring development.

Collection trenches, drain tiles, perforated pipelines, sumps, and spring boxes shall be constructed to the elevations and grades shown on the plans.

Crushed rock or gravel for collection systems and sand-gravel material for filters shall be composed of clean, hard particles.

Concrete used in construction of cutoff walls, spring box bases, covers and caps shall be ready-mixed concrete (3000 psi - 6 bags/CY mix), pre-bagged commercially available concrete mix, or hand-mixed on-site. Cement will be Type I or Type IA meeting requirements of ASTM C150 and aggregates will meet the requirements of ASTM C33. Coarse aggregate will be Size No. 57 or No. 67 for ready-mix and hand-mixed concrete.

Hand-mixed concrete shall be mixed at a ratio of 1 part cement, 2 parts sand, and 3 parts coarse aggregate. Pre-bagged concrete mix will be mixed according to the manufacturers' recommendation. Mixing water shall be clean and free of substances that would affect the strength or durability of the concrete. Concrete will be mixed to a consistency that will allow proper consolidation in the forms, but not so wet that aggregates will separate from the mortar (approximately 3"-6" slump).

Concrete will be mixed and placed in the forms in a timely manner so that it does not begin to set prior to placement, or cold joints are not formed between successive layers. Forms shall be mortar-tight and unyielding as concrete is placed.

Reinforcing steel shall be placed as shown on the drawings and held securely in place while concrete is placed.

All materials used will be in good condition and meet requirements of the applicable ASTM specifications or commercial standards as shown on the drawings.

Upon completion of construction, all disturbed areas will be graded smooth and blend with the surrounding ground. Vegetation will be established by applying seeding and mulching materials as described on the drawings.

Construction operations will be carried out in such a manner that erosion, air and water pollution will be minimized and held within legal limits.
All state and federal requirements and permits shall be followed and secured prior to construction.

ADDITIONAL CONDITIONS WHICH APPLY TO THIS PROJECT ARE:

___ ANY DEVIATION OF THE CONSERVATION STANDARD REQUIRES APPROVAL BY THE STATE CONSERVATION ENGINEER.