

**B-4631****Project Special Provisions  
Erosion Control****Rutherford County****SEEDING AND MULCHING:****(WestEd)**

The kinds of seed and fertilizer, and the rates of application of seed, fertilizer, and limestone, shall be as stated below. During periods of overlapping dates, the kind of seed to be used shall be determined. All rates are in pounds per acre.

**Shoulder and Median Areas****August 1 - June 1**

|       |                    |
|-------|--------------------|
| 20#   | Kentucky Bluegrass |
| 75#   | Hard Fescue        |
| 25#   | Rye Grain          |
| 500#  | Fertilizer         |
| 4000# | Limestone          |

**May 1 - September 1**

|       |                           |
|-------|---------------------------|
| 20#   | Kentucky Bluegrass        |
| 75#   | Hard Fescue               |
| 10#   | German or Browntop Millet |
| 500#  | Fertilizer                |
| 4000# | Limestone                 |

**Areas Beyond the Mowing Pattern, Waste and Borrow Areas:****August 1 - June 1**

|       |                    |
|-------|--------------------|
| 100#  | Tall Fescue        |
| 15#   | Kentucky Bluegrass |
| 30#   | Hard Fescue        |
| 25#   | Rye Grain          |
| 500#  | Fertilizer         |
| 4000# | Limestone          |

**May 1 - September 1**

|       |                           |
|-------|---------------------------|
| 100#  | Tall Fescue               |
| 15#   | Kentucky Bluegrass        |
| 30#   | Hard Fescue               |
| 10#   | German or Browntop Millet |
| 500#  | Fertilizer                |
| 4000# | Limestone                 |

**Approved Tall Fescue Cultivars**

|                            |                        |              |                    |
|----------------------------|------------------------|--------------|--------------------|
| 2 <sup>nd</sup> Millennium | Duster                 | Magellan     | Rendition          |
| Avenger                    | Endeavor               | Masterpiece  | Scorpion           |
| Barlexas                   | Escalade               | Matador      | Shelby             |
| Barlexas II                | Falcon II, III, IV & V | Matador GT   | Signia             |
| Barrera                    | Fidelity               | Millennium   | Silverstar         |
| Barrington                 | Finesse II             | Montauk      | Southern Choice II |
| Biltmore                   | Firebird               | Mustang 3    | Stetson            |
| Bingo                      | Focus                  | Olympic Gold | Tarheel            |
| Bravo                      | Grande II              | Padre        | Titan Ltd          |
| Cayenne                    | Greenkeeper            | Paraiso      | Titanium           |
| Chapel Hill                | Greystone              | Picasso      | Tomahawk           |
| Chesapeake                 | Inferno                | Piedmont     | Tacer              |
| Constitution               | Justice                | Pure Gold    | Trooper            |
| Chipper                    | Jaguar 3               | Prospect     | Turbo              |
| Coronado                   | Kalahari               | Quest        | Ultimate           |
| Coyote                     | Kentucky 31            | Rebel Exeda  | Watchdog           |

|          |                 |              |          |
|----------|-----------------|--------------|----------|
| Davinci  | Kitty Hawk      | Rebel Sentry | Wolfpack |
| Dynasty  | Kitty Hawk 2000 | Regiment II  |          |
| Dominion | Lexington       | Rembrandt    |          |

Approved Kentucky Bluegrass Cultivars:

|         |            |             |          |
|---------|------------|-------------|----------|
| Alpine  | Bariris    | Envicta     | Rugby II |
| Apollo  | Bedazzled  | Impact      | Showcase |
| Arcadia | Bordeaux   | Midnight    | Sonoma   |
| Arrow   | Champagne  | Midnight II |          |
| Award   | Chicago II | Rugby       |          |

Approved Hard Fescue Cultivars:

|         |            |            |            |
|---------|------------|------------|------------|
| Chariot | Minotaur   | Reliant IV | Stonehenge |
| Firefly | Nordic     | Rhino      | Warwick    |
| Heron   | Oxford     | Scaldis II |            |
| Kenblue | Reliant II | Spartan II |            |

On cut and fill slopes 2:1 or steeper add 20# Sericea Lespedeza and 15# Crown Vetch January 1 - December 31.

The Crown Vetch Seed should be double inoculated if applied with a hand seeder. Four times the normal rate of inoculant should be used if applied with a hydroseeder. If a fertilizer-seed slurry is used, the required limestone should also be included to prevent fertilizer acidity from killing the inoculant bacteria. Caution should be used to keep the inoculant below 80° F to prevent harm to the bacteria. The rates and grades of fertilizer and limestone shall be the same as specified for *Seeding and Mulching*.

Fertilizer shall be 10-20-20 analysis. A different analysis of fertilizer may be used provided the 1-2-2 ratio is maintained and the rate of application adjusted to provide the same amount of plant food as a 10-20-20 analysis and as directed.

### Native Grass Seeding And Mulching

### Bluegrass

Native Grass Seeding and Mulching shall be performed on the disturbed areas of wetlands, and adjacent to Stream Relocation and/or trout stream construction within a 50 foot zone on both sides of the stream or depression, measured from top of stream bank or center of depression. The stream bank of the stream relocation shall be seeded by a method that does not alter the typical cross section of the stream bank. Native Grass Seeding and Mulching shall also be performed in the permanent soil reinforcement mat section of preformed scour holes, and in other areas as directed.

The kinds of seed and fertilizer, and the rates of application of seed, fertilizer, and limestone, shall be as stated below. During periods of overlapping dates, the kind of seed to be used shall be determined. All rates are in pounds per acre.

**August 1 - June 1**

25# Kentucky Bluegrass  
 8# Big Bluestem  
 6# Indiangrass  
 4# Switchgrass  
 35# Rye Grain  
  
 500# Fertilizer  
 4000# Limestone

**May 1 – September 1**

25# Kentucky Bluegrass  
 8# Big Bluestem  
 6# Indiangrass  
 4# Switchgrass  
 25# German or Browntop  
 Millet  
 500# Fertilizer  
 4000# Limestone

**Approved Kentucky Bluegrass Cultivars:**

|         |            |             |          |
|---------|------------|-------------|----------|
| Alpine  | Bariris    | Envicta     | Rugby II |
| Apollo  | Bedazzled  | Impact      | Showcase |
| Arcadia | Bordeaux   | Midnight    | Sonoma   |
| Arrow   | Champagne  | Midnight II |          |
| Award   | Chicago II | Rugby       |          |

Fertilizer shall be 10-20-20 analysis. A different analysis of fertilizer may be used provided the 1-2-2 ratio is maintained and the rate of application adjusted to provide the same amount of plant food as a 10-20-20 analysis and as directed.

Native Grass Seeding and Mulching shall be performed in accordance with Section 1660 of the *Standard Specifications* and vegetative cover sufficient to restrain erosion shall be installed immediately following grade establishment.

**Measurement and Payment**

Native Grass *Seeding and Mulching* will be measured and paid for in accordance with Article 1660-8 of the *Standard Specifications*.

**TEMPORARY SEEDING:**

Fertilizer shall be the same analysis as specified for *Seeding and Mulching* and applied at the rate of 400 pounds and seeded at the rate of 50 pounds per acre. German Millet, or Browntop Millet shall be used in summer months and rye grain during the remainder of the year. The Engineer will determine the exact dates for using each kind of seed.

**FERTILIZER TOPDRESSING:**

Fertilizer used for topdressing shall be 16-8-8 grade and shall be applied at the rate of 500 pounds per acre. A different analysis of fertilizer may be used provided the 2-1-1 ratio is maintained and the rate of application adjusted to provide the same amount of plant food as 16-8-8 analysis and as directed.

**SUPPLEMENTAL SEEDING:**

The kinds of seed and proportions shall be the same as specified for *Seeding and Mulching*, and the rate of application may vary from 25# to 75# per acre. The actual rate per acre will be determined prior to the time of topdressing and the Contractor will be notified in writing of the rate per acre, total quantity needed, and areas on which to apply the supplemental seed. Minimum tillage equipment, consisting of a sod seeder shall be used for incorporating seed into the soil as to prevent disturbance of existing vegetation. A clodbuster (ball and chain) may be used where degree of slope prevents the use of a sod seeder.

**MOWING:**

The minimum mowing height on this project shall be six inches.

**SPECIALIZED HAND MOWING:****Description**

This work consists of specialized hand mowing around or under fixed objects, including but not limited to guardrails, signs, barriers and slopes in a method acceptable to the Engineer.

Specialized hand mowing shall be completed with mechanically powered trimmers, string trimmers, hand operated rotary mowers, or self-propelled mowers of sufficient size and quality to perform the work timely and efficiently.

The quantity of mowing to be performed will be affected by the actual conditions that occur during the construction of the project. The quantity of mowing may be increased, decreased or eliminated entirely as directed. Such variations in quantity will not be considered as alterations in the details of construction or a change in the character of the work.

**Measurement and Payment**

*Specialized Hand Mowing* will be measured and paid for as the actual number of hours worked while hand mowing along the surface of the ground, as directed. Where an area has been mowed more than once, as directed, separate measurement will be made each time the area is mowed.

Payment will be made under:

| <b>Pay Item</b>         | <b>Pay Unit</b> |
|-------------------------|-----------------|
| Specialized Hand Mowing | Hour            |

**REFORESTATION:****Description**

*Reforestation* will be planted within interchanges and along the outside borders of the road, and in other areas as directed. *Reforestation* is not shown on the plan sheets. See the Reforestation Detail Sheet.

All non-maintained riparian buffers impacted by the placement of temporary fill or clearing activities shall be restored to the preconstruction contours and revegetated with native woody species.

The entire *Reforestation* operation shall comply with the requirements of Section 1670 of the *Standard Specifications*.

**Materials**

*Reforestation* shall be bare root seedlings 12"-18" tall.

**Construction Methods**

*Reforestation* shall be planted as soon as practical following permanent *Seeding and Mulching*. The seedlings shall be planted in a 16-foot wide swath adjacent to mowing pattern line, or as directed.

Root dip: The roots of reforestation seedlings shall be coated with a slurry of water, and either a fine clay (kaolin) or a superabsorbent that is designated as a bare root dip. The type, mixture ratio, method of application, and the time of application shall be submitted to the Engineer for approval.

With the approval of the Engineer, seedlings may be coated before delivery to the job or at the time of planting, but at no time shall the roots of the seedlings be allowed to dry out. The roots shall be moistened immediately prior to planting.

Seasonal Limitations: *Reforestation* shall be planted from November 15 through March 15.

**Measurement and Payment**

*Reforestation* will be measured and paid for in accordance with Article 1670-17 of the *Standard Specifications*.

**RESPONSE FOR EROSION CONTROL:**

**Description**

Furnish the labor, materials, tools and equipment necessary to move personnel, equipment, and supplies to the project necessary for the pursuit of any or all of the following work as shown herein, by an approved subcontractor.

- (A) Seeding and Mulching
- (B) Temporary Seeding and Mulching
- (C) Temporary Mulching
- (D) Fertilizer Topdressing
- (E) Repair Seeding
- (F) Supplemental Seeding
- (G) Silt Fence Installation or Repair
- (H) Installation of Matting for Erosion Control

**Construction Methods**

Provide an approved subcontractor who performs an erosion control action as described in Form 1675. Each erosion control action may include one or more of the above work items.

**Measurement and Payment**

*Response for Erosion Control* will be measured and paid for by counting the actual number of times the subcontractor moves onto the project, including borrow and waste sites, and satisfactorily completes an erosion control action described in Form 1675. The provisions of Article 104-5 of the *Standard Specifications* will not apply to this item of work.

Payment will be made under:

| <b>Pay Item</b>              | <b>Pay Unit</b> |
|------------------------------|-----------------|
| Response for Erosion Control | Each            |

**MINIMIZE REMOVAL OF VEGETATION:**

The Contractor shall minimize removal of vegetation at stream banks and disturbed areas within the project limits as directed.

**STOCKPILE AREAS:**

The Contractor shall install and maintain erosion control devices sufficient to contain sediment around any erodible material stockpile areas as directed.

**ACCESS AND HAUL ROADS:**

At the end of each working day, the Contractor shall install or re-establish temporary diversions or earth berms across access/haul roads to direct runoff into sediment devices. Silt fence sections that are temporarily removed shall be reinstalled across access/haul roads at the end of each working day.

**WASTE AND BORROW SOURCES:**

Payment for temporary erosion control measures, except those made necessary by the Contractor's own negligence or for his own convenience, will be paid for at the appropriate contract unit price for the devices or measures utilized in borrow sources and waste areas.

No additional payment will be made for erosion control devices or permanent seeding and mulching in any commercial borrow or waste pit. All erosion and sediment control practices that may be required on a commercial borrow or waste site will be done at the Contractor's expense.

**GRAVEL CONSTRUCTION ENTRANCE:****Description**

This work consists of furnishing, installing, and maintaining and removing any and all material required for the construction of a *Gravel Construction Entrance*.

**Materials**

Refer to Division 10

| <b>Item</b>                        | <b>Section</b> |
|------------------------------------|----------------|
| Filter Fabric for Drainage, Type 2 | 1056           |
| Stone for Erosion Control, Class A | 1042           |

**Construction Methods**

The Contractor shall install a Gravel Construction Entrance in accordance with Standard Drawing No. 1607.01 and at locations as directed.

**Measurement and Payment**

*Filter Fabric for Drainage* will be measured and paid for in accordance with Article 876-4 of the *Standard Specifications*.

*Stone for Erosion Control, Class \_\_* will be measured and paid for in accordance with Article 1610-4 of the *Standard Specifications*.

Such price and payment shall be considered full compensation for all work covered by this section including all materials, construction, maintenance, and removal of Gravel Construction Entrance.

### **TEMPORARY DIVERSION:**

This work consists of installation, maintenance, and cleanout of *Temporary Diversions* in accordance with Section 1630 of the *Standard Specifications*. The quantity of excavation for installation and cleanout will be measured and paid for as *Silt Excavation* in accordance with Article 1630-4 of the *Standard Specifications*.

### **SAFETY FENCE:**

#### **Description**

*Safety Fence* shall consist of furnishing, installing and maintaining polyethylene or polypropylene fence along the outside riparian buffer, wetland, or water boundary located within the construction corridor to mark the areas that have been approved to infringe within the buffer, wetland or water. The fence shall be installed prior to any land disturbing activities.

#### **Materials**

Polyethylene or polypropylene fence shall be a highly visible preconstructed safety fence approved by the Engineer.

Either wood posts or steel posts may be used. Wood posts shall be nominal 2" x 4" or 4" x 4" lengths as required, structural light framing, grade No. 2, Southern Pine. Steel posts shall be at least 5 ft. in length, approximately 1 3/8" wide measured parallel to the fence, and have a minimum weight of 1.25 lb./ft. of length. The steel post shall be equipped with an anchor plate having a minimum area of 14 square inches.

#### **Construction Methods**

No additional clearing and grubbing is anticipated for the installation of this fence; however, if any clearing and grubbing is required, it will be the minimum required for the installation of the safety fence. Such clearing shall include satisfactory removal and disposal of all trees, brush, stumps and other objectionable material.

The fence shall be erected to conform to the general contour of the ground. When determined necessary, minor grading along the fence line shall be performed to meet this requirement provided no obstructions to proper drainage are created.

Posts shall be set and maintained in a vertical position and may be hand set or set with a post driver. If hand set, all backfill material shall be thoroughly tamped. Wood posts may be sharpened to a dull point if power driven. Posts damaged by power driving shall be removed and replaced prior to final acceptance. The tops of all wood posts shall be cut at a 30-degree angle.

The wood posts may, at the option of the Contractor, be cut at this angle either before or after the posts are erected.

The fence fabric shall be attached to the wood posts with one 2" galvanized wire staple across each cable or to the steel posts with wire or other acceptable means.

The Contractor shall be required to maintain the safety fence in a satisfactory condition for the duration of the project as determined by the Engineer.

**Measurement and Payment**

*Safety Fence* will be measured and paid for as the actual number of linear feet installed in place and accepted. Such payment will be full compensation including but not limited to clearing and grading, furnishing and installing fence fabric with necessary posts and post bracing, staples, tie wires, tools, equipment and incidentals necessary to complete this work.

Payment will be made under:

|                 |                 |
|-----------------|-----------------|
| <b>Pay Item</b> | <b>Pay Unit</b> |
| Safety Fence    | Linear Foot     |

**PERMANENT SOIL REINFORCEMENT MAT:**

**Description**

This work consists of furnishing and placing *Permanent Soil Reinforcement Mat*, of the type specified, over previously prepared areas as directed.

**Materials**

The product shall be a permanent erosion control reinforcement mat and shall be constructed of synthetic fibers evenly distributed throughout the mat between a bottom UV stabilized netting and a heavy duty UV stabilized top net. The matting shall be stitched together with UV stabilized polypropylene thread to form a permanent three-dimensional structure. The mat shall have the following minimum physical properties:

| <b>Property</b>          | <b>Test Method</b> | <b>Value</b> | <b>Unit</b> |
|--------------------------|--------------------|--------------|-------------|
| Light Penetration        | ASTM D6567         | 15           | %           |
| Thickness                | ASTM D6525         | 0.50         | in          |
| Mass Per Unit Area       | ASTM D6566         | 0.625        | lb/sy       |
| Tensile Strength         | ASTM D6818         | 385          | lb/ft       |
| Elongation (Maximum)     | ASTM D6818         | 49           | %           |
| Resiliency               | ASTM D6524         | >70          | %           |
| UV Stability *           | ASTM D4355         | ≥80          | %           |
| Porosity (Permanent Net) | Calculated         | ≥85          | %           |
| Minimum Filament         | Measured           | 0.03         | in          |

|  |                  |                         |
|--|------------------|-------------------------|
| Maximum Permissible Shear Stress (Vegetated) | Performance Test | ≥8.0 lb/ft <sup>2</sup> |
| Maximum Allowable Velocity                   | Performance Test | ≥16.0 ft/s              |

\*ASTM D1682 Tensile Strength and % strength retention of material after 1000 hours of exposure.

Submit a certification from the manufacturer showing:

- (A) the chemical and physical properties of the mat used, and
- (B) conformance of the mat with this specification.

**Construction Methods**

Matting shall be installed in accordance with Subarticle 1631-3(B) of the *Standard Specifications*.

All areas to be protected with the mat shall be brought to final grade and seeded in accordance with Section 1660 of the *Standard Specifications*. The surface of the soil shall be smooth, firm, stable and free of rocks, clods, roots or other obstructions that would prevent the mat from lying in direct contact with the soil surface. Areas where the mat is to be placed will not need to be mulched.

**Measurement and Payment**

*Permanent Soil Reinforcement Mat* will be measured and paid for as the actual number of square yards measured along the surface of the ground over which Permanent Soil Reinforcement Mat is installed and accepted. Overlaps will not be included in the measurement, and will be considered as incidental to the work. Such payment shall be full compensation for furnishing and installing the mat, including overlaps, and for all required maintenance.

Payment will be made under:

|                                  |                 |
|----------------------------------|-----------------|
| <b>Pay Item</b>                  | <b>Pay Unit</b> |
| Permanent Soil Reinforcement Mat | Square Yard     |

**COIR FIBER BAFFLE:**

**Description**

Furnish material, install and maintain coir fiber baffles according to the details in the plans or in locations as directed. Coir Fiber Baffles shall be installed in silt basins and sediment dams at drainage outlets. Work includes providing all materials, placing, securing, excavating and backfilling of *Coir Fiber Baffles*.

## Materials

### (A) Coir Fiber Mat

Matting: Provide matting to meet the following requirements:

|   |                          |
|---|--------------------------|
| 100% coconut fiber (coir) twine woven into high strength matrix |                          |
| Thickness -   | 0.30 in. minimum         |
| Tensile Strength  | 1348 x 626 lb/ft minimum |
| Elongation  | 34% x 38% maximum        |
| Flexibility (mg-cm)   | 65030 x 29590            |
| Flow Velocity   | Observed 11 ft/sec       |
| Weight  | 20 oz/SY                 |
| Size  | 6.6 x 164 ft (120 SY)    |
| "C" Factor  | 0.002                    |
| Open Area (measured)  | 50%                      |

### (B) Staples

Provide staples made of 0.125 in. diameter new steel wire formed into a *u* shape not less than 12" in length with a throat of 1" in width.

### (C) Posts

Steel posts shall be at least 5 ft. in length, approximately 1 3/8" wide measured parallel to the fence, and have a minimum weight of 1.25 lb/ft of length. The post shall be equipped with an anchor plate having a minimum area of 14.0 square inches, and shall be of the self-fastener angle steel type to have a means of retaining wire and coir fiber mat in the desired position without displacement.

### (D) Wire

Provide 9-gauge high tension wire strand of variable lengths.

## Construction Methods

Place the coir fiber baffles immediately upon excavation of basins. Install three (3) baffles in basins with a spacing of one fourth (1/4) the basin length and according to the detail sheets. Two (2) coir fiber baffles shall be installed in basins less than 20 ft. in length with a spacing of one third (1/3) the basin length.

Steel posts shall be placed at a depth of 2 ft. below the basin surface, with a maximum spacing of 4 ft. Attach a 9-gauge high-tension wire strand to the steel posts at a height of 3 ft. with plastic ties or wire fasteners. Install a steel post into side of the basin at a variable depth and a height of 3 ft. from the bottom of the basin to anchor coir fiber mat. Secure anchor post to the upright steel post in basin with wire fasteners.

The coir fiber mat shall be draped over the wire strand to a minimum of 3 ft. of material on each side of the strand. Secure the coir fiber mat to the wire strand with plastic ties or wire fasteners. Place staples across the matting at ends and junctions approximately 1 ft. apart at the bottom and side slopes of basin. Overlap matting at least 6" where 2 or more widths of matting are installed side by side. Refer to details in the plan sheets. The Engineer may require adjustments in the stapling requirements to fit individual site conditions.

### **Measurement and Payment**

*Coir Fiber Baffles* will be measured and paid for by the actual number of linear feet of coir fiber baffles which are installed and accepted. Such price and payment will be full compensation for all work covered by this section, including, but not limited to, furnishing all materials, labor, equipment and incidentals necessary to install the coir fiber baffles.

Payment will be made under:

| <b>Pay Item</b>   | <b>Pay Unit</b> |
|-------------------|-----------------|
| Coir Fiber Baffle | Linear Foot     |

### **CULVERT DIVERSION CHANNEL:**

#### **Description**

This work consists of providing a *Culvert Diversion Channel* to detour the existing stream around the culvert construction site at locations shown on the plans. Work includes constructing the diversion channel, disposing of excess materials, providing and placing filter fabric liner, maintaining the diversion area in an acceptable condition, removing filter fabric liner, backfilling diversion channel area with suitable material, and providing proper drainage when diversion channel area is abandoned.

#### **Materials**

Refer to Division 10

| <b>Item</b>                        | <b>Section</b> |
|------------------------------------|----------------|
| Filter Fabric for Drainage, Type 2 | 1056           |

#### **Construction Methods**

Grade channel according to the plans with channel surface free of obstructions, debris, and pockets of low-density material. Utilize suitable material and provide disposal area for unsuitable material.

Line channel with fabric unrolled in the direction of flow and lay smoothly but loosely on soil surface without creases. Bury top of slope fabric edge in a trench at least 5" deep and tamp

securely. Make vertical overlaps a minimum of 18" with upstream fabric overlapping the downstream fabric.

Secure fabric with eleven gauge wire staples shaped into a *u* shape with a length of not less than 6" and a throat not less than 1" in width. Place staples along outer edges and throughout the fabric a maximum of 3 ft. horizontally and vertically.

### **Measurement and Payment**

*Culvert Diversion Channel* will be measured and paid for as the actual number of cubic yards excavated, as calculated from the typical section throughout the length of the diversion channel as shown on the final approved plans.

*Filter Fabric for Drainage* will be measured and paid for in accordance with Article 876-4 of the *Standard Specifications*.

Such price and payment shall be considered full compensation for all work covered by this section including all materials, construction, maintenance, and removal of *Culvert Diversion Channel*.

Payment will be made under:

| <b>Pay Item</b>           | <b>Pay Unit</b> |
|---------------------------|-----------------|
| Culvert Diversion Channel | Cubic Yard      |

### **IMPERVIOUS DIKE:**

#### **Description**

This work consists of furnishing, installing, maintaining, and removing an *Impervious Dike* for the purpose of diverting normal stream flow around the construction site. The Contractor shall construct an impervious dike in such a manner approved by the Engineer. The impervious dike shall not permit seepage of water into the construction site or contribute to siltation of the stream. The impervious dike shall be constructed of an acceptable material in the locations noted on the plans or as directed.

#### **Materials**

Acceptable materials shall include but not be limited to sheet piles, sandbags, and/or the placement of an acceptable size stone lined with polypropylene or other impervious fabric.

Earth material shall not be used to construct an impervious dike when it is in direct contact with the stream unless vegetation can be established before contact with the stream takes place.

**Measurement and Payment**

57

*Impervious Dike* will be measured and paid as the actual number of linear feet of impervious dike(s) constructed, measured in place from end to end of each separate installation that has been completed and accepted. Such price and payment will be full compensation for all work including but not limited to furnishing materials, construction, maintenance, and removal of the impervious dike.

Payment will be made under:

| <b>Pay Item</b> | <b>Pay Unit</b> |
|-----------------|-----------------|
| Impervious Dike | Linear Foot     |