

## SECTION 1000 SITE PREPARATION

1001 SCOPE. This section governs the furnishing of all labor, equipment, tools and materials and the performance of all clearing, grubbing and demolition within the limits of work as defined in Section 1003(A) of this specification, in the Special Provisions or as shown on the plans.

### 1002 DEFINITIONS.

- A. **Clearing.** shall consist of removing all vegetable matter such as trees, brush, down timber and other objectionable materials found on or above the surface of the site. It shall include removing buildings, fences, lumber, waste dumps and trash and the salvaging of such materials as may be specified and disposing of the debris. The Contractor and/or developer shall scalp all excavation and embankment areas. Scalping shall include the removal of material such as sod, grass, residue or agricultural crops and decayed vegetable matter from the surface of the ground without removing more earth than is necessary.
- B. **Grubbing.** shall consist of removing and disposing of all vegetable matter such as stumps, roots, buried trees and brush encountered below the surface of the ground or sub-grade, whichever is lower, which have not been included in Section 1002(A) entitled "Clearing".

In all cases of grubbing, the vegetable matter shall be removed to a minimum depth of 12 inches below ground line or subgrade, whichever is lower, except as provided in Section 1003(C).

When deleterious materials are encountered below ground line which may be detrimental to the proposed improvement, these shall be removed to a depth necessary to provide adequate support for the proposed improvement.

- C. **Demolition and Removal.** This work shall consist of demolishing, removing and disposing of all structures and improvements within the construction limits unless included in other items of work as shown on the plans or Special Provisions. This work shall apply to all structures and improvements, whether on, above or below the surface of the ground or sub-grade.

Demolition and removal shall include but not be limited to items such as buildings, drainage structures, pipes, pavements, fences, retaining walls, guardrails and signs.

Items such as fences and guardrails shall be salvaged and relinquished to the appropriate owner or relocated, where indicated on the plans.

Relocation of signs, fences, guardrails, etc. shall be considered incidental to removal work except where such relocation is listed separately in the itemized Proposal.

All pipes which are to be abandoned shall be removed unless otherwise shown on the plans or approved by the Engineer.

In removing items such as portland cement concrete pavement, base courses, curbs, curb and gutters, sidewalks, and similar objects where portions of said objects are to be left in place, they shall be removed to an existing joint or to a new joint sawed to a minimum depth of two (2) inches or 1/4 the slab thickness, whichever is greater, with a true line and vertical face. Sufficient portions of these objects shall be removed to provide for the proper grade and connection to the new work.

- D. Trees. Vegetable growth 6 inches in diameter, measured 3 feet above ground shall be classified as a tree.
- E. Brush. Vegetable growth less than 6 inches in diameter, measured 3 feet above ground shall be classified as brush.

### 1003 CONSTRUCTION DETAILS.

- A. Limits of Work. The limits for clearing, grubbing and demolition shall extend to the construction limits unless otherwise shown on the plans.

In the event construction limits have not been indicated on the plans, the limits for clearing, grubbing, and demolition shall not extend beyond the limits of the right-of-way, County property lines, or easements.

- B. Erosion Control. All erosion control will be placed before any ground breaking will occur. Erosion control will consist of silt fence and or silt straw bales. These will be located on the construction plans at places such as:

1. Behind curbs.
2. In front of curb inlets.
3. Low lying areas.
4. All slopes
5. To protect local properties.

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Contractor and/or developer will be required to maintain all erosion control measures until project is completely accepted. Once project is accepted all erosion control will be removed by contractor and/or developer.

- C. Silt Fence Construction Specifications:

1. Post which supports the silt fence shall be installed on a slight angle toward the anticipated runoff source and spaced at a maximum eight (8) feet apart or to silt fence manufacturers specifications, whichever is stricter.
2. Silt fence shall be trenched in with a spade or a mechanical trencher so that the downslope face of the trench is flat and perpendicular to the line of flow.
3. The trench should be a minimum of six (6) inches deep and three to four (3-4) inches wide to allow the silt fence to be laid in the in the ground and backfilled.

4. Silt fence should be securely fastened to each support post.
5. Inspection shall be frequent and repair or replacement shall be made as promptly as needed.
6. Silt fence shall be removed when it has served its usefulness.
7. Sediment trapped by this practice shall be uniformly distributed on the source area prior to topsoiling.
8. Silt fence shall be (MIRAFI-100X) filter fabric or an approved equal.

D. Baled Straw or Hay Construction Specifications.

1. Bales shall be placed in a row with ends tightly abutting the adjacent bales.
2. Each bale shall be embedded in the soil a minimum of four (4) inches.
3. Bales shall be securely anchored in place by stakes or re-bars driven through the bales. The first stake in each bale shall be angled toward the previous laid bale to force the bales together. Stakes should be driven flush with the bales.
4. Inspection shall be frequent and repaired and replaced when needed.
5. Bales shall be removed when they have served their usefulness.

E. Protection of Greenery, Existing Structures and Private Facilities. The plans will designate trees, shrubs or other plants that are to be saved and the Contractor and/or developer will take necessary steps to protect this greenery. Trees may be pruned, upon prior approval of the Engineer, but only in accordance with the best practices of arboriculture in respect to the individual species with due regard to their natural form and growth characteristics.

Existing structures within or adjacent to the construction limits that are not to be removed or demolished shall be protected by the Contractor and/or developer during construction. Any private facilities such as house sewer laterals which are disturbed or damaged by the Contractor and/or developer's work, shall be repaired by the contractor and/or developer prior to the close of the workday. This repair shall be made in a manner sufficient to restore utility service to that property.

F. Embankment Area. When undisturbed stumps and roots are encountered where the fill depth will exceed three (3) feet, the stumps and roots may be left in place provided they do not extend more than three (3) inches above the original ground line.

G. Borrow Areas. All stumps, roots and other objectionable matter shall be removed from the borrow material used for embankment or fill. The borrow area shall be left in a well drained and smooth condition.

- H. Backfilling the Site. All trenches, holes, pits and basement areas resulting from the operations of clearing, grubbing, demolition and removal on the site, shall be backfilled with suitable material placed and compacted in conformance with Section 1106 entitled "Embankment".
- I. Disposal of Materials. All materials, with the exception of those which are designated for salvage or which are used in the embankment in conformance with this specification, shall become the Contractor and/or developer's property and shall be disposed of by him outside of the project limits, unless otherwise indicated on the plans.

#### 1004 PROGRESS OF CONSTRUCTION.

- A. Clearing. shall proceed well in advance of the construction operations so as not to delay the progress of the work. The refuse resulting from clearing may be hauled to a waste site secured by the Contractor and/or developer or shall be burned, buried or mulched in such a manner as to meet all laws, regulations, and requirements of any governing authority regarding health, safety, and public welfare. When authorized by the Fire Department, the Contractor and/or developer may dispose of such refuse by burning on the site of the project, provided all requirements as determined by the Fire Department are met. Under no circumstances will the authorization to burn on the site relieve the Contractor and/or developer in any way from damages which may result from his operations. In no case shall any materials be left on the project site, shoved into abutting properties, or buried in embankments or trenches on the site.

- B. Grubbing. shall parallel the clearing as nearly as the sequence of operations will permit.

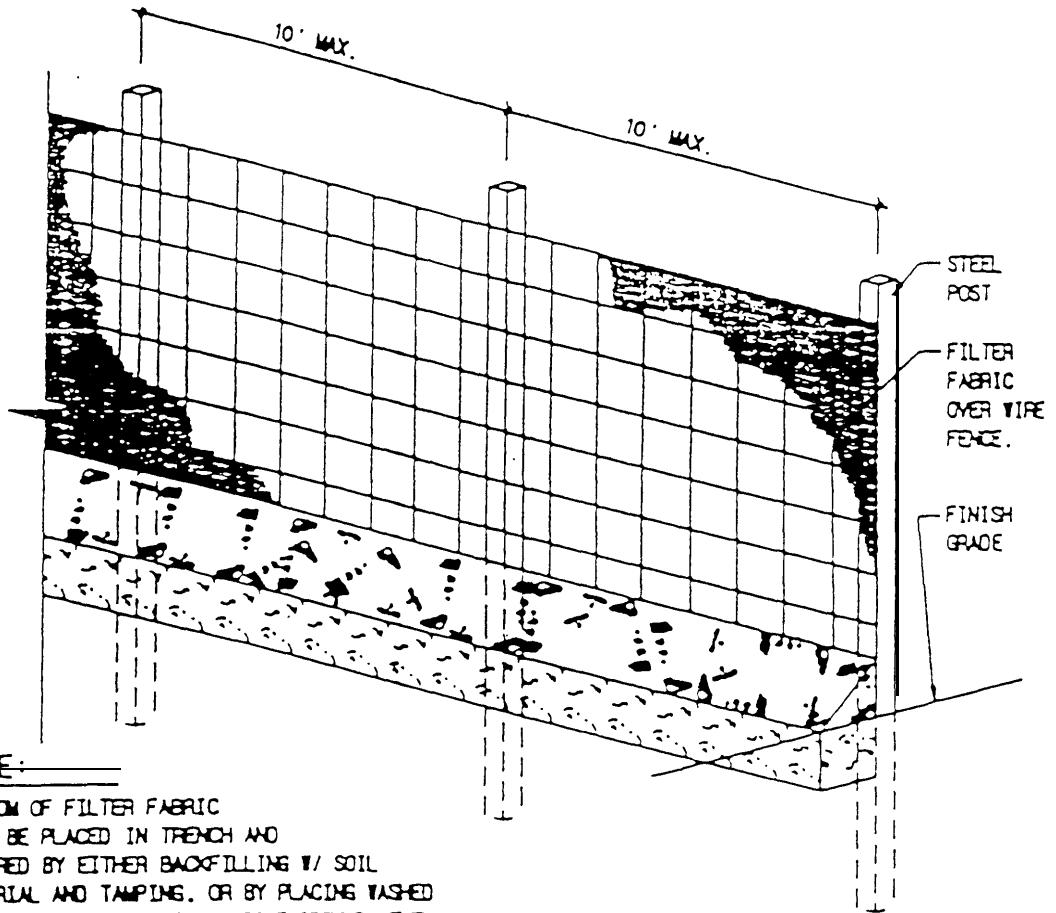
Piling and butts of utility poles within the limits shall be removed to a minimum depth of two (2) feet below the subgrade or the original ground, whichever is lower.

All stumps, roots, and other objectionable matter found within borrow material to be used for embankment or fill material shall be removed.

- C. Demolition. Demolition work shall occur well in advance of the construction operations. Masonry and concrete walls, miscellaneous foundations, or other objects extending below ground shall be removed to a depth of at least twelve (12) inches below the original ground or subgrade, whichever is lower.

When explosives are used in demolition, the Contractor and/or developer shall comply with the provisions of Specification Section 7000 entitled "Blasting".

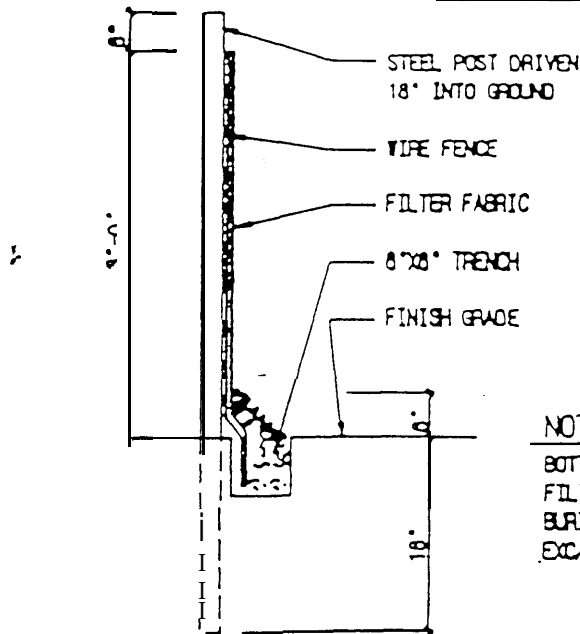
1005 UTILITY COORDINATION. The Contractor and/or developer shall be responsible for protecting any improvement of any agency, public or private, in the vicinity of clearing, grubbing or demolition operations. When necessary, the Contractor and/or developer shall enlist the assistance of the affected agencies in the location of their utilities. The Contractor and/or developer will be responsible for the cost to any agency for assistance in the location of its facilities and for the cost of all damage to such facilities arising from his carelessness or negligence.



NOTE:

BOTTOM OF FILTER FABRIC MUST BE PLACED IN TRENCH AND SECURED BY EITHER BACKFILLING W/ SOIL MATERIAL AND TAMPING, OR BY PLACING WASHED STONE TO A HEIGHT OF 6" ABOVE GROUND LEVEL.

ELEVATION



NOTE:

BOTTOM OF WIRE FENCE & FILTER FABRIC ARE TO BE BURIED IN A 6"x8" EXCAVATED TRENCH.

CROSS-SECTION

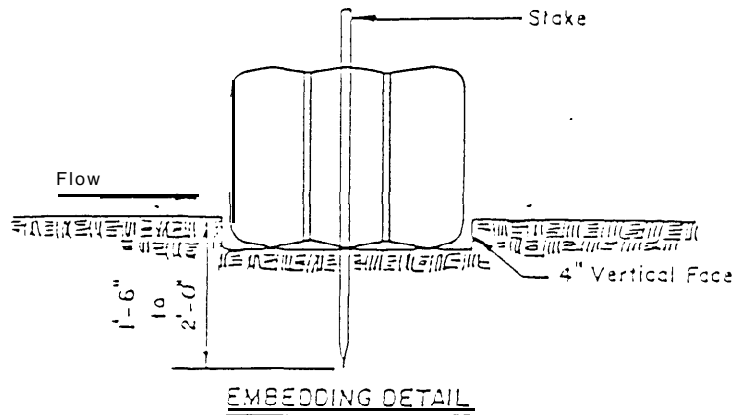
SILT FENCE



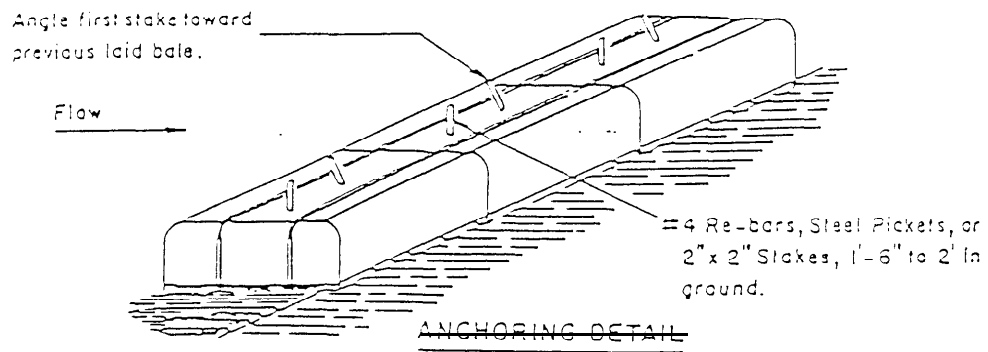
County of Clay  
HIGHWAY  
DEPARTMENT/PWD

SILT FENCE DETAIL

D10-1



EMBEDDING DETAIL



ANCHORING DETAIL

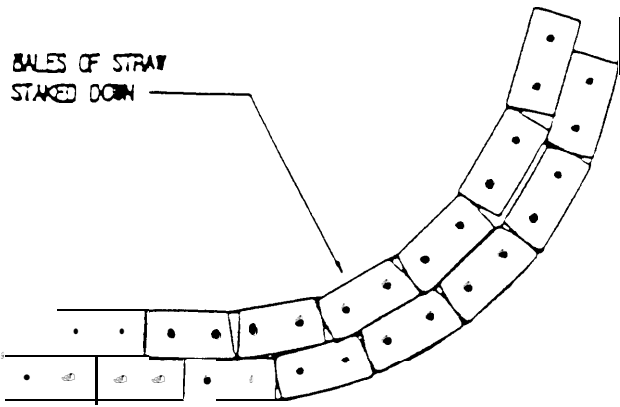
STRAW BALE DIKE DETAIL



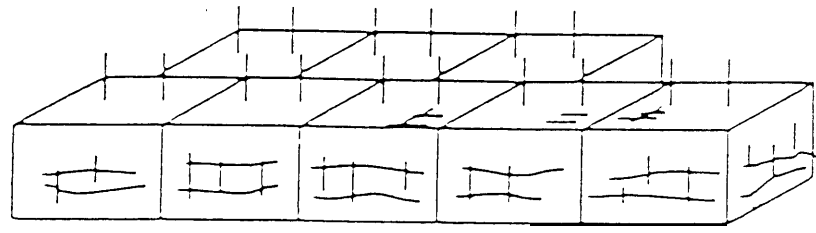
County of Clay  
 HIGHWAY  
 DEPARTMENT/PWD

STRAW BALE  
 DIKE DETAIL

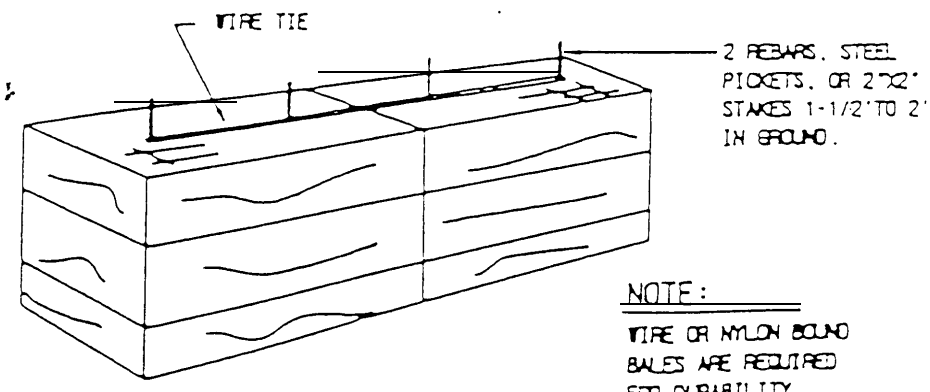
DIO-2



DOUBLE ROW OF BALES OF STRAW TO BE PLACED PRIOR TO THE START OF ROUGH GRADING. BALES ARE TO BE PLACED AS CLOSELY TOGETHER AS POSSIBLE IN ORDER TO PROVIDE MAXIMUM PROTECTION.



FRONT VIEW



NOTE:  
WIRE OR NYLON BOUND BALES ARE REQUIRED FOR DURABILITY.

ANCHORING BALES

STRAW BALE BARRIER



County of Clay  
HIGHWAY  
DEPARTMENT/PWD

STRAW BALE  
BARRIER DETAIL

DIO-3