



CITY OF PASADENA

BUILDING AND SAFETY DIVISION

175 North Garfield Avenue, Pasadena, CA 91101-1704
(626) 744-4200 Fax: (626) 744-3979
www.cityofpasadena.net

BEST MANAGEMENT PRACTICE

BEST MANAGEMENT PRACTICE NOTES:

1. Every effort should be made to eliminate the discharge of non-storm water from the project site at all times.
2. Eroded sediments and other pollutants must be retained on-site and may not be transported from the site via sheet flow, swales, area drains, natural drainage courses or wind.
3. Stockpiles of earth and other construction related materials must be protected from being transported from the site by the forces of wind or water.
4. Fuels, oils, solvents, and other toxic materials must be stored in accordance with their listing and are not to contaminate the soil and surface waters. All approved storage containers are to be protected from the weather. Spills must be cleaned up immediately and disposed of in a proper manner. Spills may not be washed into the drainage system.
5. Excess or waste concrete may not be washed into the public way or any other drainage system. Provisions shall be made to retain concrete wastes on-site until they can be disposed of as solid waste.
6. Trash and construction related solid wastes must be deposited into a covered receptacle to prevent contamination of rainwater and dispersal by wind.
7. Sediments and other materials may not be tracked from the site by vehicle traffic. The construction entrance roadways must be stabilized so as to inhibit sediments from being deposited into the public way. Accidental depositions must be swept up immediately and may not be washed down by rain or other means.
8. Any slopes with disturbed soils or vegetation must be stabilized so as to inhibit erosion by wind and water.

"I certify that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to ensure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system or those persons directly responsible for gathering the information, to the best of my knowledge and belief, the information submitted is true, accurate, and complete. I am aware that submitting false and/or inaccurate information, failing to update the plans to reflect current conditions, or failing to properly and/or adequately implement BMP's may result in revocation of grading and/or other permits or other sanctions provided by law."

Print Name _____
(Owner or authorized agent of the owner)

Signature _____
(Owner or authorized agent of the owner)

Date _____

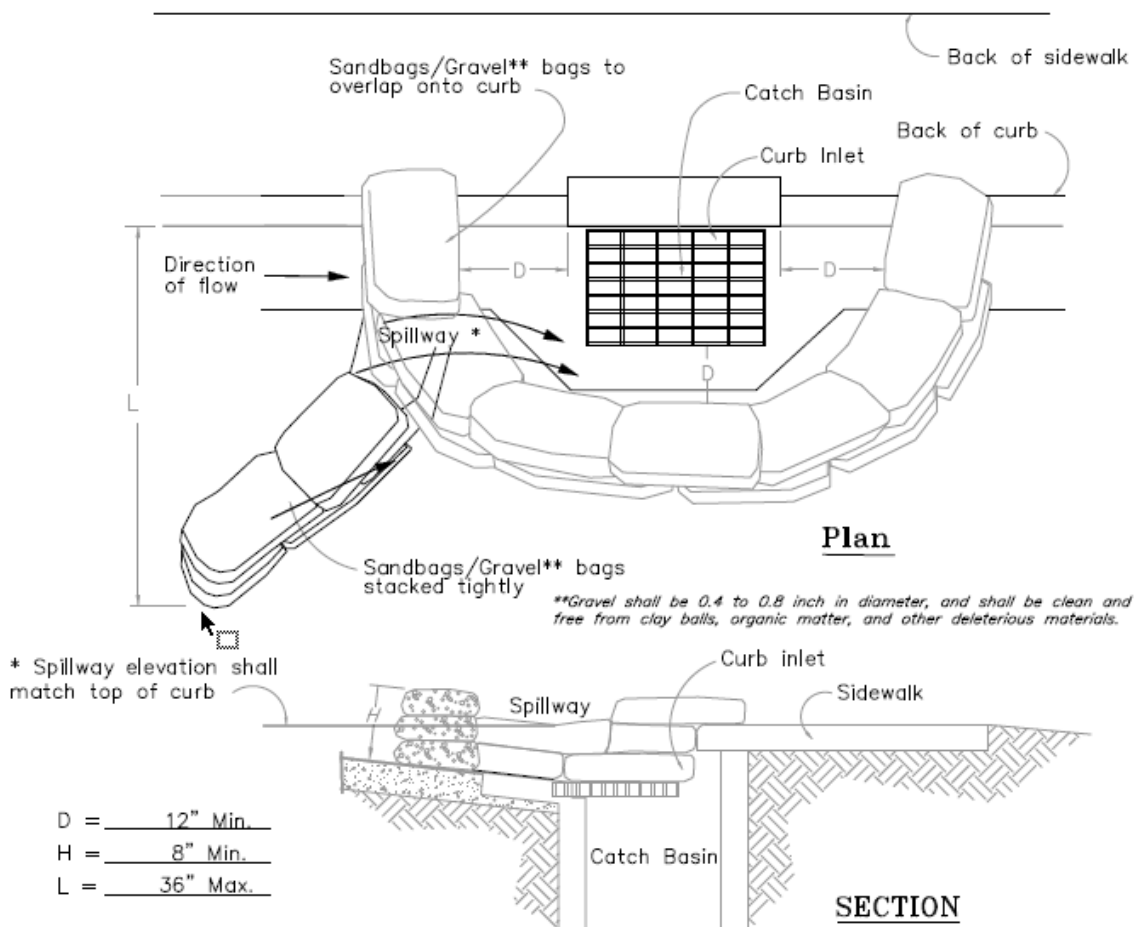


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CATCH BASIN/INLET PROTECTION

Notes:

1. Catch Basin/Inlet protection shall be installed wherever there is a potential of storm water or non-storm water being discharged into it.
2. Inlet protection is required along with other pollution prevention measures, such as erosion control, soil stabilization, and measures to prevent tracking onto paved surfaces.
3. Modify inlet protection as needed to avoid creating traffic hazards.
4. Include inlet protection measures at hillside v-ditches and misc. drainage swales.
5. Inlet protection shall be inspected and accumulated sediments removed. Sediment shall be disposed of properly and in a manner than assures that the sediment does not enter the storm drain system.
6. Damage bags shall be replaced immediately.
7. Additional sandbag sediment traps shall be placed at intervals as indicated on site plan.

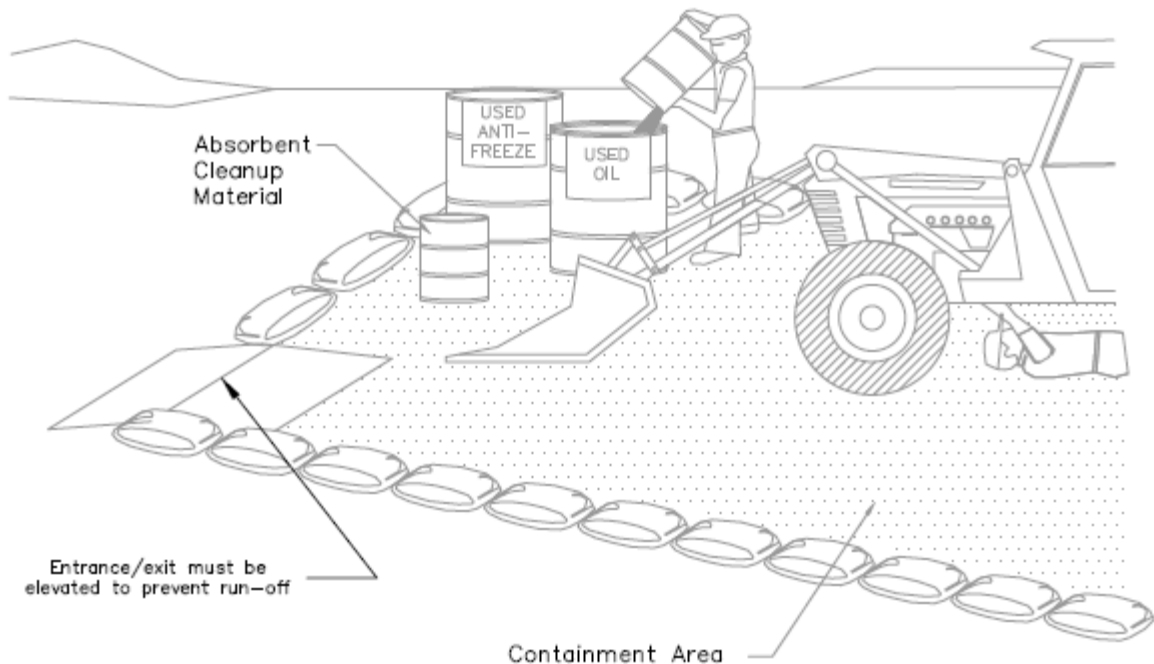


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BEST MANAGEMENT PRACTICE



EQUIPMENT MAINTENANCE AREAS

Notes:

1. Leaking vehicles and equipment shall not be allowed on site. Equipment and vehicles shall be inspected frequently for leaks and shall be repaired immediately. Clean up spills and leaks promptly with absorbent materials. Do not flush with water.
2. Vehicles and equipment shall be maintained and repaired on site only in designated areas. Prevent run-on and run-off from designated areas. Containment devices shall be provided and areas shall be covered if necessary.
3. Designate onsite vehicle and equipment maintenance areas, away from storm drain inlets and water courses.
4. Always use secondary containment, such as a drain pan or drop cloth, to catch spills and leaks when removing or changing fluids.
5. Legally dispose of used oils, fluids, lubricants, and batteries.
6. Provide spill containment dikes or secondary containment around stored oil, fuel, and chemical drums.
7. Maintain an adequate supply of absorbent spill cleanup materials in designated area.
8. It is the contractor's responsibility to regularly inspect the vehicle and equipment maintenance area(s).



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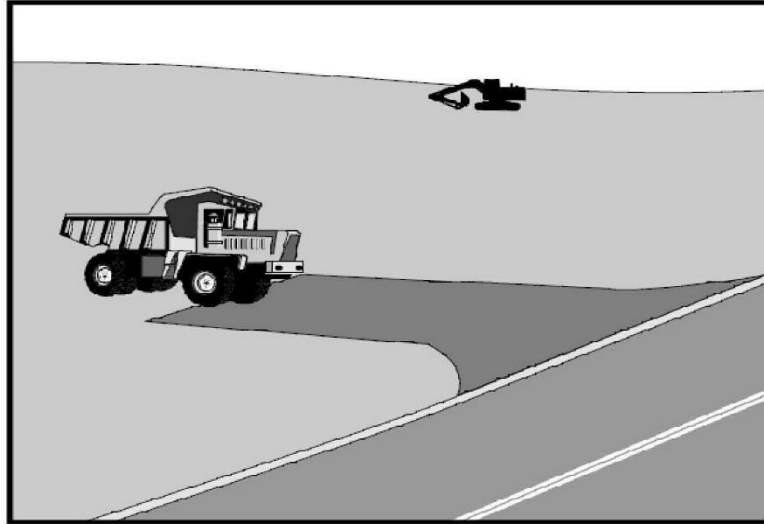
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BEST MANAGEMENT PRACTICE



STABILIZED CONSTRUCTION ENTRANCE/EXIT

Notes:

1. Sediments and other materials shall not be tracked from the site by vehicle traffic. The construction entrance roadways shall be stabilized so as to prevent sediments from being deposited into the public roads. Sediment deposited on the roadway must be swept up immediately and may not be washed down by rain or other means into the storm drain system. See Type 1 and Type 2 details.
2. Stabilized construction entrance shall be:
 - a. Located at any point where traffic will be entering or leaving a construction site to or from a public right of way, street, alley, and sidewalk or parking area.
 - b. A series of steel plates with "rumble strips" and/or min >3" to <6" crushed aggregate with length, width & thickness as needed to adequately prevent any tracking onto paved surfaces.
3. Adding a wash rack with a sediment trap large enough to collect all wash water can greatly improve efficiency.
4. All vehicles accessing the construction site shall utilize the stabilized construction entrance sites.
 - a. Remove all sediment deposited on paved roadways immediately.
 - b. Sweep paved areas that receive construction traffic whenever sediment becomes visible.
 - c. Pavement washing with water is prohibited if it results in a discharge to the storm drain system.



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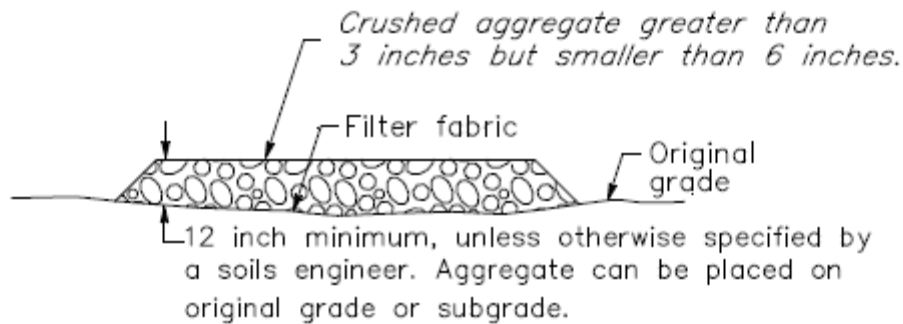
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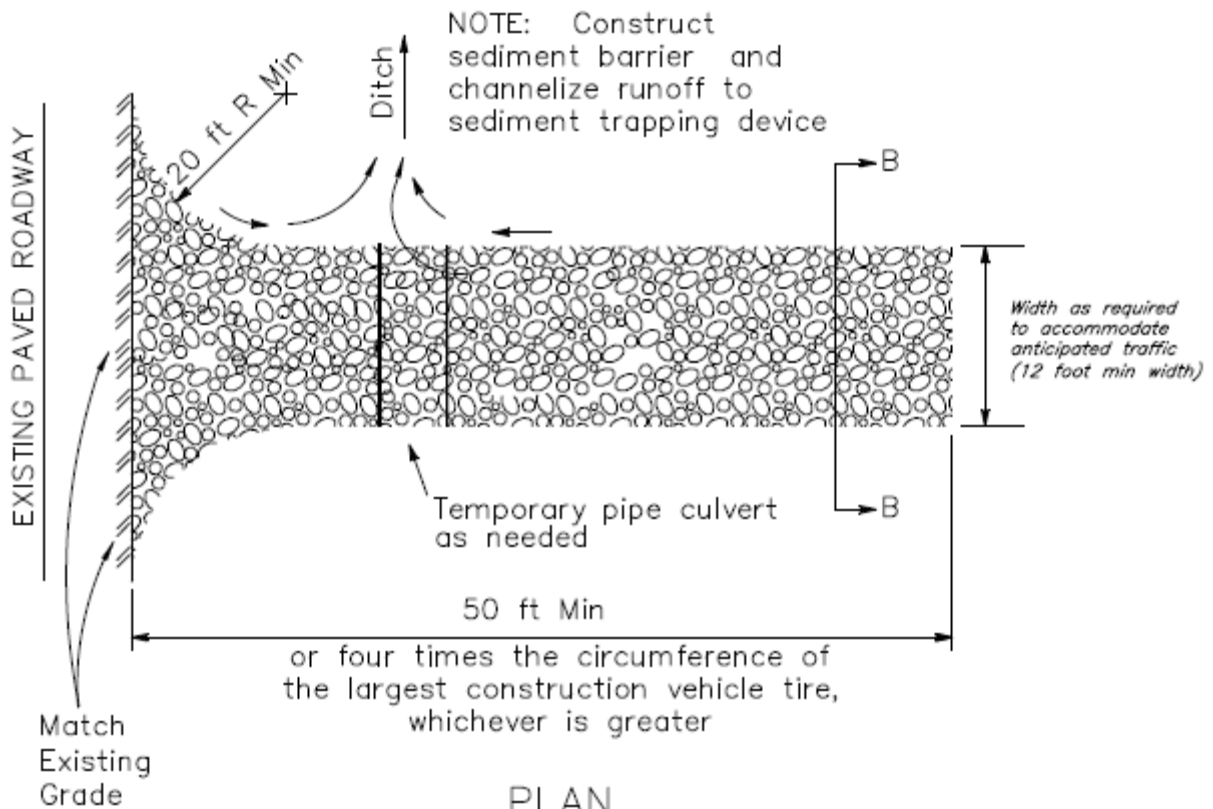
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BEST MANAGEMENT PRACTICE



SECTION B-B
NTS



PLAN
NTS

TYPE 1 GRAVEL ENTRANCE/EXIT

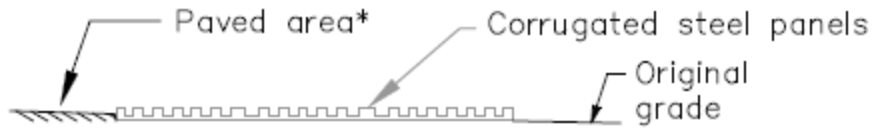


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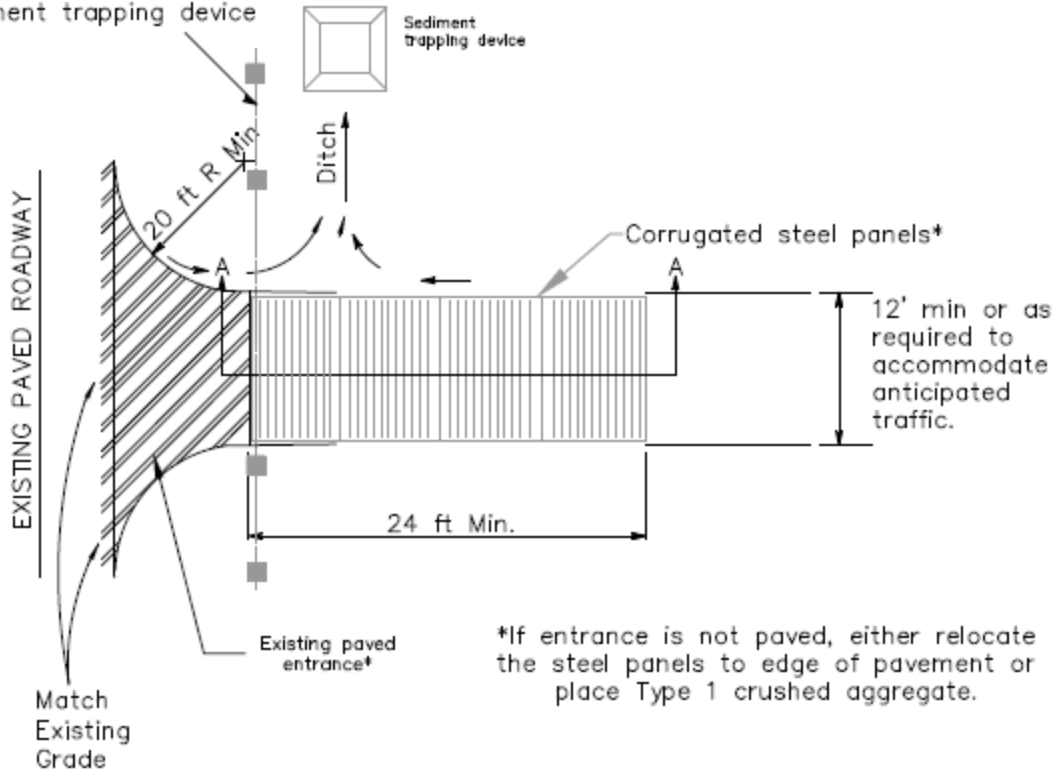
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BEST MANAGEMENT PRACTICE



SECTION A-A
NOT TO SCALE

NOTE:
Construct sediment barrier
and channelize runoff to
sediment trapping device



*If entrance is not paved, either relocate the steel panels to edge of pavement or place Type 1 crushed aggregate.

PLAN
NTS

TYPE 2 ALTERNATIVE ENTRANCE/EXIT

use of corrugated steel plates, shaker plates, rumble plates, etc.

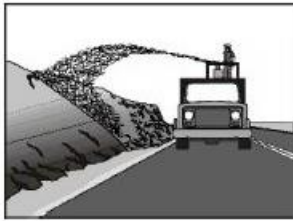


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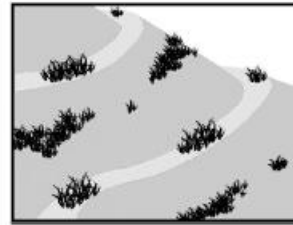
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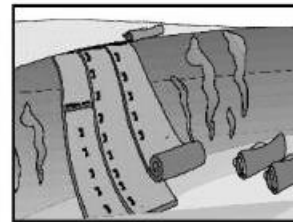
Straw Mulch



Hydroseeding



Hydraulic Mulch



Geotextiles, Mats, Plastic Covers and Erosion Control Blankets

Notes:

EROSION CONTROL

1. Soil/Slope stabilization practices shall be designed to preserve existing vegetation where feasible and to re-vegetate open areas as soon as feasible after grading. These control practices shall include temporary seeding, permanent seeding, mulching, sod stabilization, vegetative bugger strips, protection of trees, or other soil stabilization practices.
2. Soil stabilization shall be implemented on all inactive disturbed areas from October 1 thru May 30 and on all disturbed areas during a rain event or potential rain.
3. Soil stabilization practices shall control/prevent erosion from the forces of wind and water.
4. Stabilization practices shall be implemented in conjunction with sediment trapping/filtering practices and practices to reduce the tracking of sediment onto paved roads.
5. When using straw mulching, the minimum application shall be 2 tons/acre. Mulch must be anchored immediately to minimize loss by wind or water.
6. When using hydroseeding/mulching, the minimum application of wood fiber shall be 1,500 lbs/acre, that does not contain more than 50 percent newsprint.
7. For seeding recommendations, contact: USDA, Natural Resource Conversation Service at 44811 Date Ave, Lancaster, CA 93534-3136. Phone: (661) 945-2604
8. When using hydraulic mulch, the application shall be between 1 to 2 tons per acre.
9. Geotextiles, mates, plastic covers, and erosion control blankets should be considered when disturbed soils may be particularly difficult to stabilize.
10. For geotextiles, mats, and erosion control blankets, installation should be in accordance with manufacture's recommendations. Typically, overlap of geotextiles/mats edge is 2 to 3 inch end-over-end (shingle style) with 6 inch overlap and staple through overlapped area, approximately 12 inch apart.

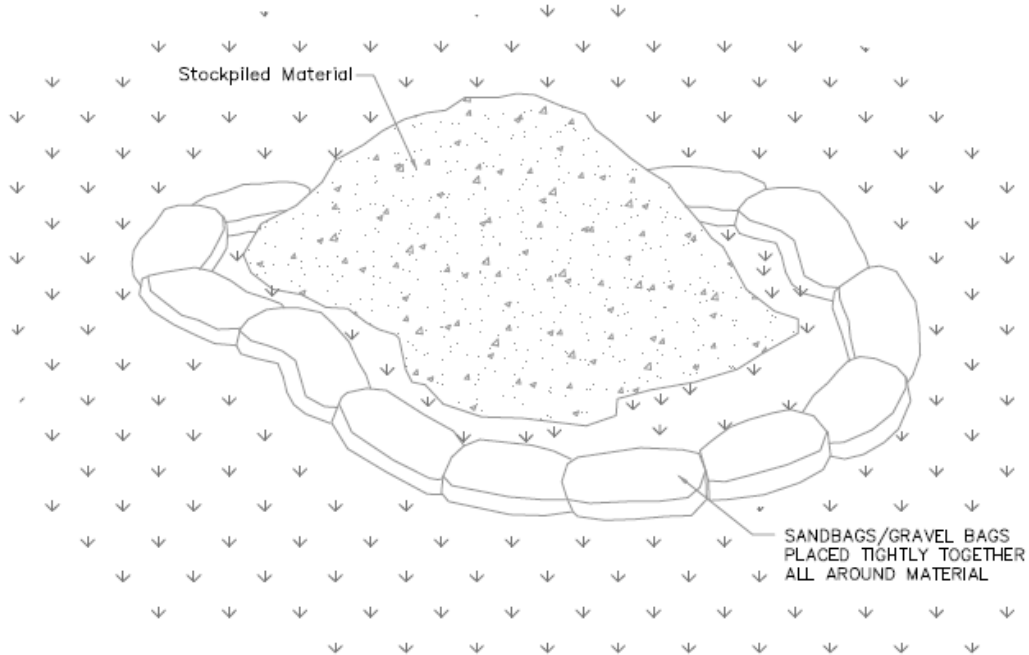


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MATERIAL STORAGE

Notes:

Stockpile management procedures and practices are designated to reduce or eliminate air and storm water pollution from stockpiles of soil, and paving materials such as Portland cement concrete (PCC) rubble, asphalt concrete (AC), asphalt concrete rubble, aggregate base, aggregate sub-base or pre-mixed aggregate, asphalt binder and pressure treated wood.

1. Protection of stockpile is a year-round requirement.
2. Locate stockpiles a minimum of 50 feet away from concentrated flows of storm water, drainage course, and drain inlets.
3. Implement wind erosion/transport control practices as appropriate.
4. All stockpiles shall be covered, stabilized, or protected with a temporary linear barrier (i.e. sandbags, etc.) prior to the onset of precipitation.



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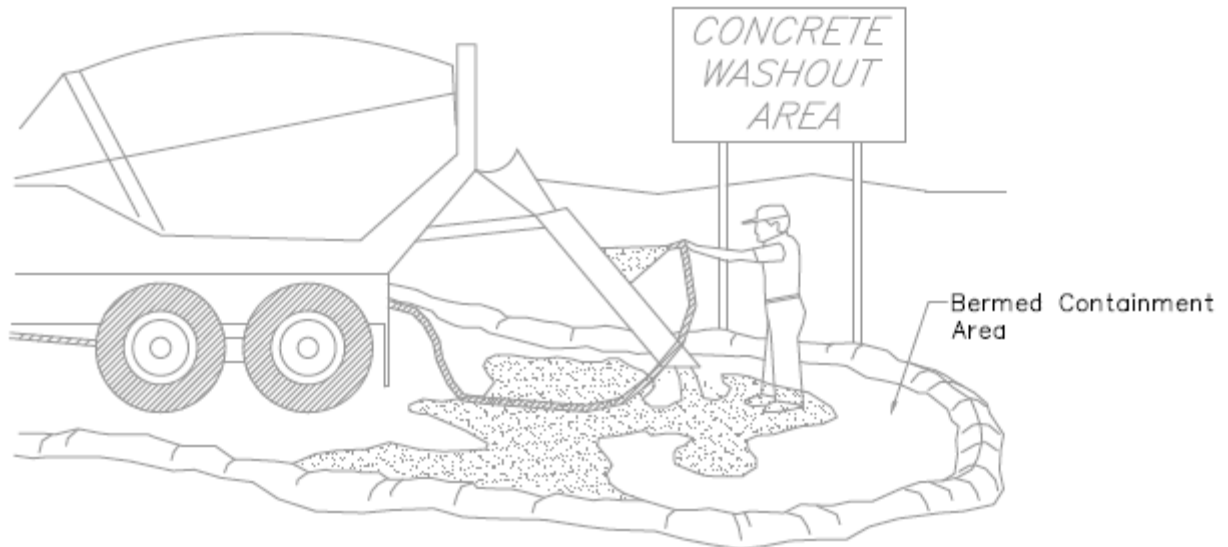
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CONCRETE WASTE MANAGEMENT

Notes:

1. Excess and waste concrete shall not be washed into the street or into a drainage system.
2. For washout of concrete and mortar products, a designated containment facility of sufficient capacity to retain liquid and solid waste shall be provided on site and disposed of properly off site.
3. Slurry from concrete and asphalt saw cutting shall be vacuumed or contained, dried, picked up, and disposed of properly.

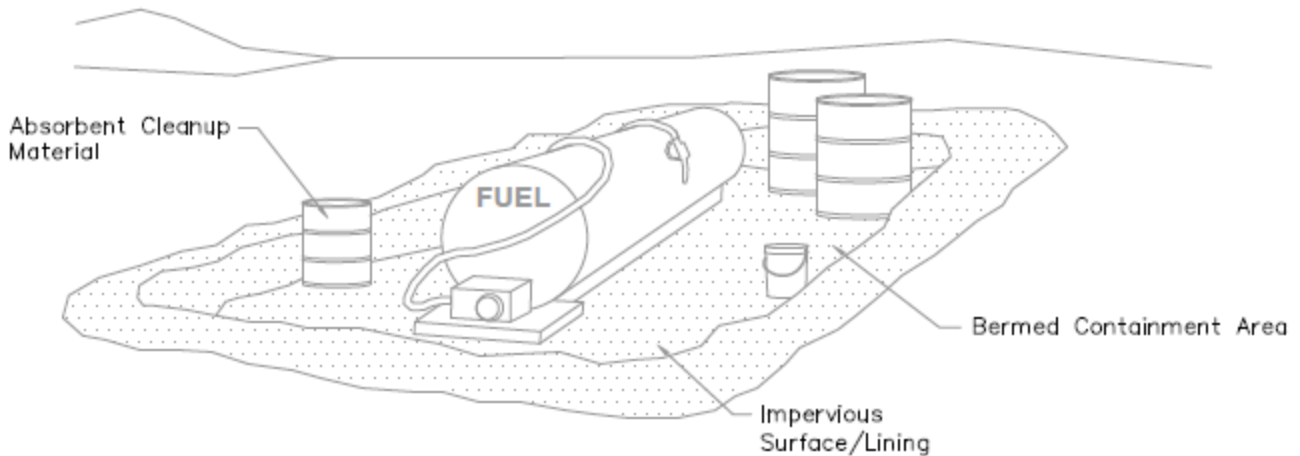


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VEHICLE/ EQUIPMENT FUELING

Notes:

1. Fueling shall be performed in a designated area and away from drainage courses.
2. Absorbent cleanup material shall be on site and used immediately in the event of a spill.
3. Drip pans or absorbent pads shall be used during vehicle and equipment fueling, unless the fueling is performed over an impermeable surface in a dedicated fueling area.
4. Dedicated fueling areas shall be protected from storm water run-on and runoff, and shall be located at least 50 feet from downstream drainage facilities and water courses. Fueling must be performed on level-grade areas.
5. Protect fueling areas with berms and/or dikes to prevent run-on, runoff, and to contain spills.

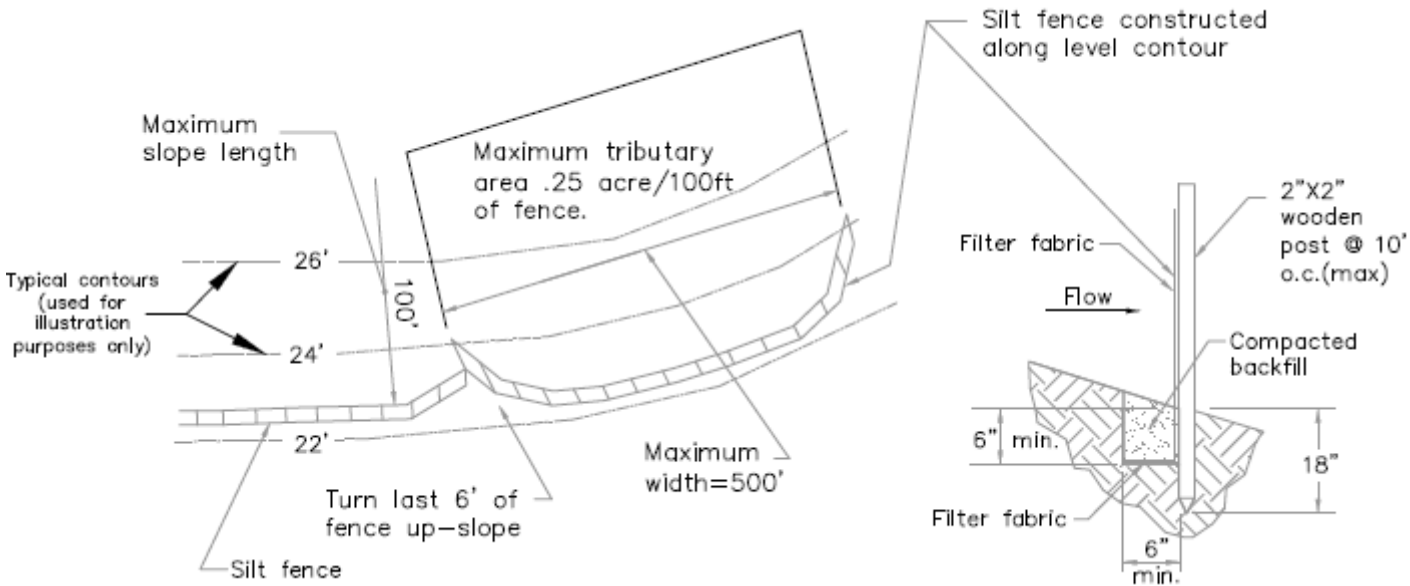


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SILT FENCE

Notes:

1. Construct the silt fence along a level contour.
2. Silt fences shall remain in place until the disturbed area is permanently stabilized.
3. Provide sufficient room for runoff to pond behind the fence and allow sediment removal equipment to pass between the silt fence and toe of slope or other obstructions. About 1,200 sq.-ft. of ponding area shall be provided for every acre draining to the fence.
4. Turn the ends of the filter fence uphill to prevent storm water from flowing around the fence.
5. Leave an undisturbed or stabilized area immediately downslope from the fence.
6. Do not place in live stream or intermittently flowing channels.
7. When standard filter fabric is used, a wire mesh support fence shall be fastened securely to the upslope side of the post using heavy-duty (0.6 inch) wire staples at least 1.75 inches long, tie wires or hog rings.
8. Filter fabric shall be woven polypropylene geotextile with a minimum width of 36 inches and a minimum tensile strength of 100 lb force.
9. Wood stakes shall be commercial quality lumber no less than 2 inch by 2 inch. Wood stakes shall be driven to a depth of no less than 18 inches from surface.

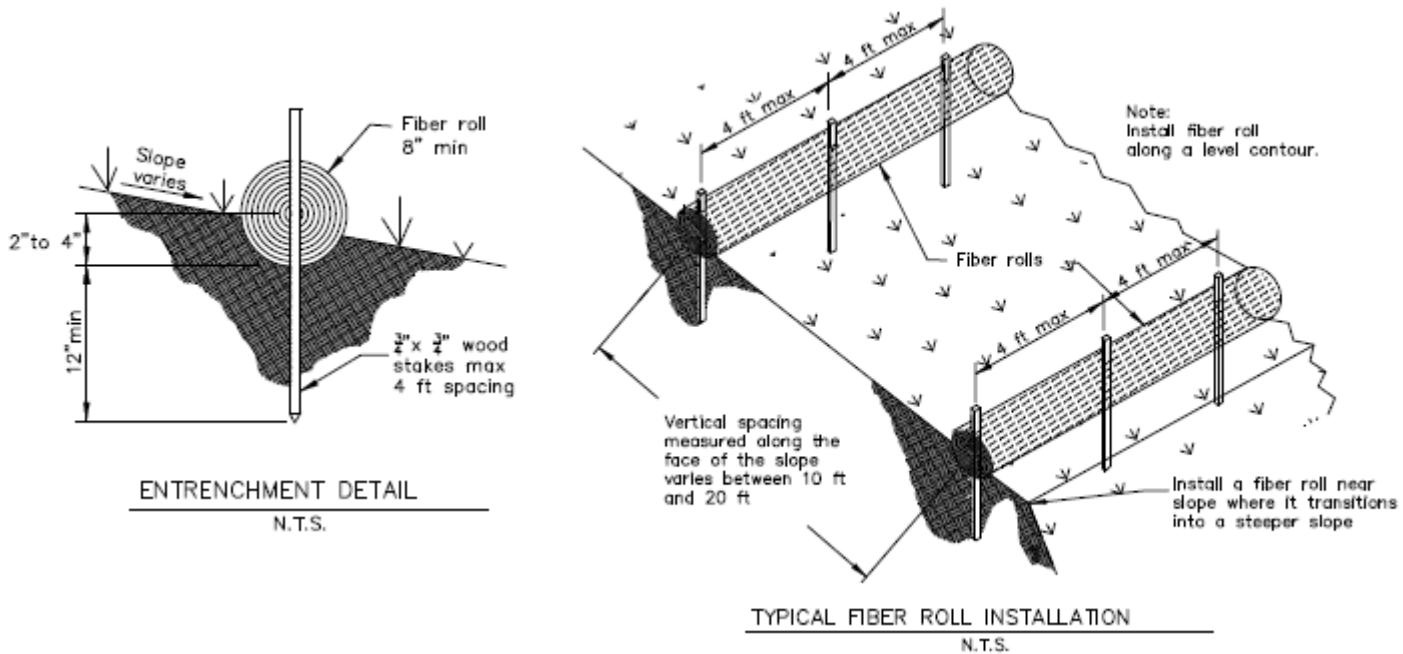


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FIBER ROLL

Notes:

1. Place along the toe, top, face, and at grade breaks of exposed and erodible slopes.
2. Place on the down-slope of exposed soil areas.
3. Place around temporary stockpiles.
4. Place along the perimeter of a project.
5. Slopes greater than 1:5 may require the use of 20 inch diameter fiber rolls at the top of slopes.
6. Fiber rolls shall be either prefabricated or rolled tubes of erosion control blankets with a minimum 8 inch diameter.
7. Slopes 1:4 or flatter require fiber rolls to be placed no more than 20 feet apart.
8. Slopes 1:4 to 1:2 require fiber rolls to be placed no more than 15 feet apart.
9. Slopes 1:2 or greater require fiber rolls to be placed no more than 10 feet apart.
10. Fiber rolls shall be placed in a 2 to 4 inch deep trench.
11. Wooden commercial grade stakes, $\frac{3}{4}$ " x $\frac{3}{4}$ ", shall be used to secure the fiber roll to the ground surface. Stakes shall be a minimum length of 24 inches and driven a minim 12 inches.
12. A single-stake installation required the stakes to be placed no more than 2 feet apart.
13. If more than one fiber roll is placed in a row, the rolls shall be overlapped, not abutted a minimum of 1 foot.

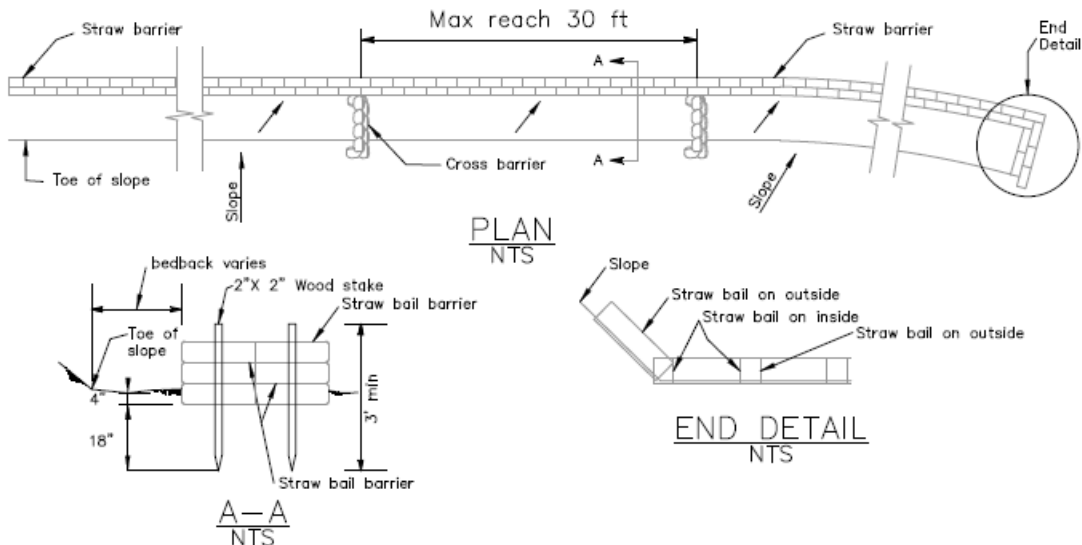


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STRAW BALE BARRIER

A straw bale border is a temporary linear sediment barrier consisting of straw bales, designed to intercept and slow sediment laden sheet flow runoff. Straw bale barriers allow sediment to settle from runoff before water leaves the construction site.

Notes:

1. Place along the perimeter of a site, streams and channels, and/or around stockpiles.
2. Place below the toe of exposed and erodible slopes.
3. Place downslope of exposed soil areas.
4. Place parallel to roadway to keep sediment off paved areas.
5. Do not use for drain inlet protection or in areas of concentrated flows.
6. Straw bale to be minimum of 14 inches wide, 18 inches in height, and 36 inches in length.
7. Shall be composed entirely of vegetative material, except for the binding material.
8. Bale bindings shall be either steel wire, nylon or polypropylene string placed horizontally.
9. Commercial quality lumber shall be used for 2 inch by 2 inch wood stakes of adequate length.
10. Limit the drainage area upstream of the border to 0.25 ac/100 ft.
11. Limit the slope length draining to the straw bale barrier to 100 ft.
12. Slopes of 2 percent or flatter area preferred.
13. If slope exceeds 10 percent, the length of the slope upstream of the barrier must be less than 50 ft.
14. Install straw barrier along a level contour, in a trench and tightly abut adjacent bales.
15. Last straw bale on end needs to be turned up slope.
16. Inspect straw bale barriers before and after each rain event.
17. Inspect straw bale barriers for sediment accumulations and remove sediment when depth reaches 1/3 of barrier height.
18. Replace or repair damaged bales as needed.