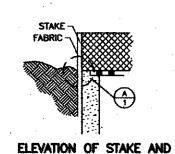
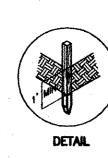


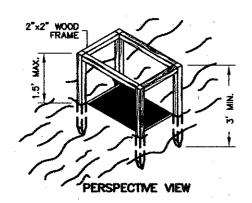
THIS METHOD OF INLET PROTECTION IS APPLICABLE WHERE HEAVY CONCENTRATION FLOWS ARE EXPECTED, BUT NOT WHERE PONDING AROUND THE STRUCTURE MIGHT CAUSE EXCESSIVE AND UNPROTECTED AREAS

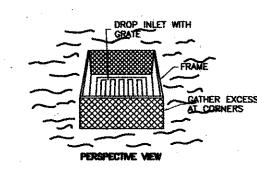
INLET PROTECTION WIRE MESH AND GRAVEL

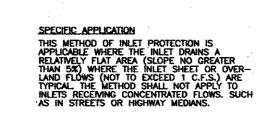


FABRIC ORIENTATION

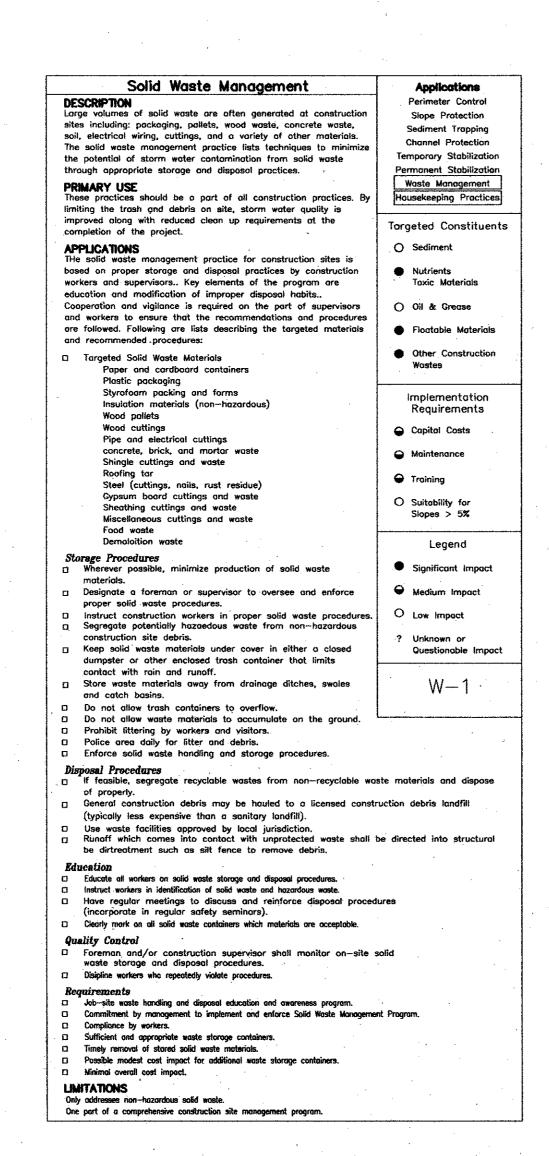








II. ALTERNATIVE INSTALLATION FILTER FABRIC PROTECTION



Hazardous Waste Management Perimeter Control DESCRIPTION
The hazardous waste management BMP addresses the problem of Slope Protection storm water poliuted with hazardous waste through spills or other Sediment Trapping forms of contact. The objective of the Management Program is to minimize the potential of stormwater contamination from common construction site hazardous wastes through appropriate recognition, handling, storage and disposal practices. It is not the intent of this Management Program to supersede or replace normal site assesment and remediation procedures. Significant spills and/or contamination warrant immediate response by trained professionals. Suspected job-site contaminants should be immediately reported to regulatory Sediment authorities and protective actions taken. The General Permit requires reporting of significant spills to the National Response Nutrients Center (NRC) at (800) 424-8802. Toxic Materials PRIMARY USE
These management practices along with applicable OSHA and EPA quidelines should be incorporated at all construction sites which use or generate hazardous wastes. Many wastes such as fuel, oil, grease, fertilizer and pesticide are present at most Other Construction INSTALLATION, APPLICATION AND DISPOSAL CRITERIA Implementation based on proper recognition, handling, and disposal practices by Requirements construction workers and supervisors. Key elements of the management program are education, proper disposal practices, as Capital Costs well as provisions for safe storage and disposal. Following are lists describing the targeted materials and recommended Maintenance Targeted Solid Waste Materials Training O Suitability for Stoins Slopes > 5% Wood preservatives Cutting oils Greases Legend Roofing tor Significant Impact Fuels and lube oils Lead based paints (Demolition) ● Medium Impact Storage Procedures Wherever possible, minimize use of hazardous materials, O Low Impact Minimize generation of hazardous wastes on the job-site. Segregate patentially hazaedous waste from non-hazardous Unknown or construction site debris. Designate a foreman or supervisor to oversee hazardous materials handling procedures. ☐ Keep liquid or semi-liquid hazardous waste in appropriate containers (closed drums or similar) and under cover. Store waste materials away from drainage ditches, swales and catch basins. Use containment berms in fueling and maintenance areas and where the potential for spills is high. Ensure that adequate hazardous waste storage volume is ovailable. Ensure tht hazardous waste collection containers are conveniently located. Do not allow potentially hazardous waste materials to accumulate on the ground. Enforce hazardous waste handling and disposal procedures. Clearly mark on all hazardous waste containers which materials are acceptable for the container. Disposal Procedures
☐ Regularly schedule hazardous removal to minimize on-site storage. Use only reputable, licensed hazardous waste haulers. Instruct workers in identification of hazardous waste. Educate workers of potential dangers to humans and the environment from hazardous wastes. instruct workers on safety procedures for common construction site hazardous wastes. Educate all workers on hazardous waste storage and disposal procedures. Have regular meetings to discuss and reinforce identification, handling and disposa procedures (incorporate in regular safety seminars). D Establish a continuing education program to indoctrinate new employees. Quality Assurance D Foreman and/or construction supervisor shall monitor on-site Educate and if necessary, discipline workers who violate procedures. □ Ensure that the hazardous waste disposal contractor is reputable and licensed. Job-site hazardous waste handling and disposal education and awareness program. Commitment by management to implement hazardous waste management practices. □ Compliance by workers.
 □ Sufficient and appropriate hazardous waste storage containers. Timely removal of stored hazardous waste materials. Possible modest cost impact for additional hazardous storage containers. Commitment by management to implement hazardous waste management practices. Small cost impact for training and monitoring. Potential cost impact for hazardous waste collection and disposal by licensed hauler — actual cost depends on type of material and volume. This practice is not intended to address site-assessments and pre-existing contamination. Major contamination, large spills and other serious hazardous waste incidents require

mmediate response from specialists.

nated soils are not addressed.

Demolition activities and potential pre—existing materials, such as asbestos, are not addressed by this program. Site specific information on plans is necessary.

One part of a comprehensive construction site waste management program.

Concrete Waste Management Perimeter Control DESCRIPTION Concrete waste at construction sites comes in two forms; Slope Protection 1)excess fresh concrete mix including truck and equipment Sediment Trapping Channel Protection washing, and 2) concrete dust and concrete debris resulting from Channel Protection demolition. Both forms have the potential to impact water quality Temporary Stabilization Temporary Stabilization through storm water runoff contact with the waste. Permanent Stabilization Permonent Stabilization PRIMARY USE
Concrete waste is present at most construction sites. This BMP Waste Management Waste Management Housekeeping Practices Housekeeping Practices should be utilized at sites in which concrete waste is present. APPLICATIONS Targeted Constituents A number of water quality parameters can be affected by Targeted Constituents introduction of concrete - especially fresh concrete. Concrete affects the pH of runoff, causing significant chemical changes i O Sediment water bodies and harming aquatic life. Suspended solids in the form of both cement and aggregate dust are also generated Nutrients from both fresh and demolished concrete waste. Toxic Materials Current Unacceptable Waste Concrete Disposal Practices O Oil & Grease D Dumping in vacant areas on the job-site. ☐ Illicit dumping off-site. Floatable Materials Dumping into ditches or drainage facilities. Recommended Disposal Practices Other Construction Avoid unacceptable disposal practices listed above. Develop pre-determined, safe concrete disposal areas. Provide a washout area with a minimum of 6 cubic feet of containment area volume for every 10 cubic yards of Implementation concrete poured. Requirements Never dump waste concret illicitly or without property Capital Costs owners knowledge and consent. Treat runoff from storage areas through the use of structural controls as required. → Maintenance Training Drivers and equipment operators should be instructed on proper disposal and equipment washing practices (see above). Supervisors must be made aware of the potential O Suitability for enviornmental consequences of improperly handled concrete Slopes > 5% Enforcement ☐ The construction site manager or foreman must ensure that employees and pre-mix companies follow proper procedures Significant Impact for concrete disposal and equipment washing. Employees violating disposal or equipment cleaning → Medium Impact directives must be re-educated or disciplined if necessary. O Low Impact Demolition Practices □ Monitor weather and wind direction to ensure concrete dust in not entering drainage structures and surface waters. Where Unknown or Questionable Impact appropriate, construct sediment traps or other types of Questionable Impact sediment detention devices downstream of demolition activities. Use pre-determined disposal sites for waste concrete. Prohibit dumping waste concrete anywhere but pre-determined ☐ Assign pre-determined truck and equipment washing areas D Educate drivers and operators on proper disposal and equipment cleaning procedures. Minimal cost impact for training and monitoring.
 Concrete disposal cost depends on availability and distance to suitable disposal areas. Additional costs involved in equipment washing could be significant. This concrete waste management program is one part of a comprehensive construction site

GENERAL NOTES:

CRUSHED PORTLAND CEMENT CONCRETE.

DEPTH IN ALL OTHER CASES SHALL BE 50 FEET.

3. THE THICKNESS SHALL NOT BE LESS THAN 6 INCHES. THE WIDTH SHALL BE NO LESS THAN THE FULL WIDTH OF ALL POINTS OF NGRESS OR EGRESS. WHEN NECESSARY, VEHICLES SHALL BE CLEANED TO REMOVE SEDIMENT PRIOR O ENTRANCE ONTO A PUBLIC ROADWAY. WHEN WASHING IS REQUIRED, IT SHALL BE DONE ON AN AREA STABILIZED WITH CRUSHED STONE WITH DRAINAGE FLOWING AWAY FROM BOTH THE STREET AND THE STABILIZED ENTRANCE. ALL SEDIMENT SHALL BE PREVENTED FROM ENTERING ANY STORM DRAIN, DITCH OR WATERCOURSE USING . THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PAVED SURFACES. THIS MAY REQUIRE PERIODIC TOP DRESSING WITH ADDITIONAL STONE AS CONDITIONS DEMAND. ALL SEDIMENT SPILLED, DROPPED, WASHED OR TRACKED ONTO PAVED SURFACES, MUST BE REMOVED IMMEDIATELY. 7. THE ENTRANCE MUST BE PROPERLY GRADED ON INCORPORATE A DRAINAGE SWALE TO PREVENT RUNOFF FROM LEAVING THE CONSTRUCTION SITE. LENGTH AS SHOWN ON PLANS GRADE TO PREVENT RUNOF FROM LEAVING SITE FILTER FABRIC PAVED SURFACE PROFILE VIEW N.T.S. LENGTH AS SHOWN ON PLANS GRADE TO DRAIN AWAY FROM STABILIZATION AND STREET PAVED SURFACE TRANSITION TO PAVED SURFACE R.O.W. PLAN VIEW

STABILIZED CONSTRUCTION ENTRANCE

LENGTH SHALL BE SHOWN ON PLANS, WITH A MINIMUM LENGTH OF 30 FEET FOR

STONE SHALL BE 3 TO 5 INCH DIAMETER CRUSHED ROCK OR ACCEPTABLE

LOTS WHICH ARE LESS THAN 150 FEET FROM EDGE OF PAVEMENT. THE MINIMUM

FIGURE 4.3.B EROSION CONTROL PLAN STANDARD GENERAL NOTES

1. EROSION CONTROL DEVICES AS SHOWN ON THE EROSION CONTROL PLAN FOR THE PROJECT SHALL BE INSTALLED PRIOR TO THE START OF LAND DISTURBING ACTIVITIES ON

2. ALL EROSION CONTROL DEVICES ARE TO BE INSTALLED IN ACCORDANCE WITH APPROVED PLANS AND SPECIFICATIONS FOR THE PROJECT. CHANGES ARE TO BE APPROVED BEFORE CONSTRUCTION BY THE DESIGN ENGINEER AND THE CITY OF PLANO

3. IF THE EROSION CONTROL PLAN AS APPROVED CANNOT CONTROL EROSION AND OFF-SITE SEDIMENTATION FROM THE PROJECT THE EROSION CONTROL PLAN WILL BE REQUIRED TO BE REVISED AND/OR ADDITIONAL EROSION CONTROL DEVICES WILL BE

4. IF OFF-SITE SOIL BORROW OR SPOIL SITES ARE USED IN CONJUNCTION WITH THIS PROJECT, THIS INFORMATION SHALL BE DISCLOSED AND SHOWN ON THE EROSION CONTROL PLAN. OFF-SITE BORROW AND SPOIL AREAS ARE CONSIDERED A PART OF THE PROJECT SITE AND THEREFORE SHALL COMPLY WITH THE CITY OF PLANO EROSION CONTROL PLAN REQUIREMENTS. THESE AREAS SHALL BE STABILIZED WITH PERMANENT GROUND COVER PRIOR TO FINAL APPROVAL OF THE PROJECT.

SILT FENCE

. STEEL POSTS WHICH SUPPORT THE SILT FENCE SHALL BE INSTALLED ON A SLIGHT

2. THE TOE OF THE SILT FENCE SHALL BE TRENCHED IN WITH A SPADE OR MECHANICAL TRENCHER, SO THAT THE DOWNSLOPE FACE OF THE TRENCH IS FLAT AND

(e.g. PAVEMENT), WEIGHT FABRIC FLAP WITH ROCK ON UPHILL SIDE TO PREVENT FLOW

PERPENDICULAR TO THE LINE OF FLOW. WHERE FENCE CANNOT BE TRENCHED IN

3. THE TRENCH MUST BE A MINIMUM OF 6 INCHES DEEP AND 6 INCHES WIDE TO ALLOW FOR THE SILT FENCE FABRIC TO BE LAID IN THE GROUND AND BACKFILLED

4. SILT FENCE SHOULD BE SECURELY FASTENED TO EACH STEEL SUPPORT POST OR

TO WOVEN WIRE, WHICH IS IN TURN ATTACHED TO THE STEEL FENCE POST. THERE

SHALL BE A 3 FOOT OVERLAP, SECURELY FASTENED WHERE ENDS OF FABRIC MEET.

5. INSPECTION SHALL BE MADE WEEKLY AND AFTER EACH RAINFALL. REPAIR OR

6. SILT FENCE SHALL BE REMOVED WHEN THE SITE IS COMPLETELY STABILIZED SO AS

. ACCUMULATED SILT SHALL BE REMOVED WHEN IT REACHES A DEPTH OF HALF THE

- STEEL POST

INSTALL TEMPORARY EROSION CONTROL FENCE AROUND EACH CONSTRUCTION SITE. PROTECT ALL ADJACENT PROPERTY FROM SEDIMENTATION FROM THIS CONSTRU

HEIGHT OF THE FENCE. THE SILT SHALL BE DISPOSED OF AT AN APPROVED SITE AND IN SUCH A MANNER AS NOT TO CONTRIBUTE TO ADDITIONAL SILTATION.

REPLACEMENT SHALL BE MADE PROMPTLY AS NEEDED.

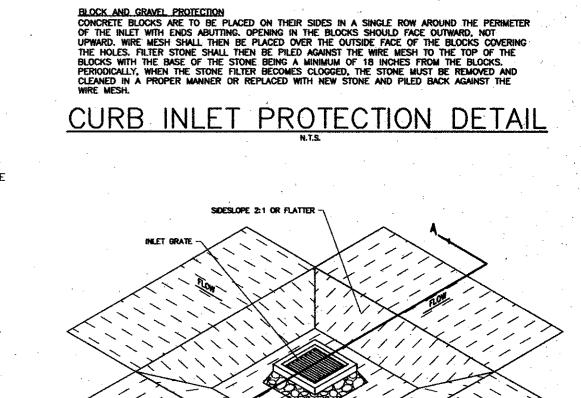
NOT TO BLOCK OR IMPEDE STORM FLOW OR DRAINAGE.

SILT FENCE FABRIC

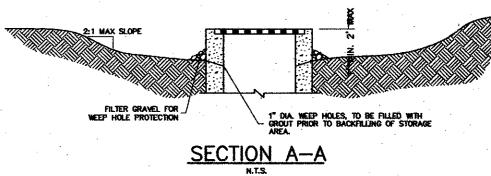
ANGLE TOWARD THE ANTICIPATED RUNOFF SOURCE. POST MUST BE EMBEDDED A

GENERAL NOTES

FROM SEEPING UNDER FENCE.



ISOMETRIC PLAN VIEW



INLET PROTECTION EXCAVATED IMPOUNDMENT

TRUCKS LEAVING THE SITE SHALL HAVE ALL EXCESS MUD AND MATERIAL REMOVED FROM TIRES. ALL DEBRIS TRACKED OFFSITE SHALL BE CLEANED IMMEDIATELY AT THE CONTRACTORS EXPENSE. THE CONTRACTOR SHALL KEEP FENCE IN GOOD **PROFILE VIEW** -STEEL FENCE POST MAX. 6' SPACING, MIN. (MIN. HEIGH EMBEDMENT = 1 WIRE MESH BACKING SUPPORT 4X4---W1.4XW1.4 MINIMUM ALLOWABLE, TYP, CHAIN OR ROCK BACKFILL LINK FENCE FABRIC IS ACCEPTABLE ISOMETRIC PLAN VIEW

RECORD DRAWING THIS DRAWING REFLECTS FIELD REVISIONS JAY E. MARSH

EROSION CONTROL DETAILS SPRINGHILL SUITES

TOWN OF ADDISON, TEXAS DRAWN DESIGN DATE NOTES SCALE FILE NUMBER JEM 05/03/01 AS N.T.S. MARADEC3 JPS

PATE S ENGINEERS

8150 BROOKRIVER DRIVE SUITE S-700 DALLAS, TEXAS. 75247 TEL (214) 357-2981 FAX (214) 357-2985 JOB NO. 083100900

BY DATE REVISION EAE 0/11/02 RECORD DRAWING