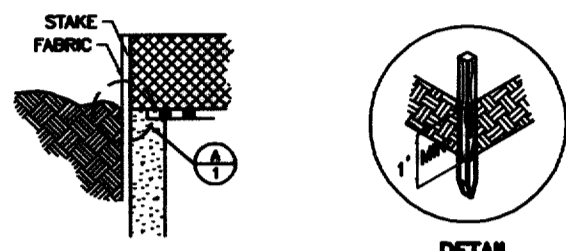


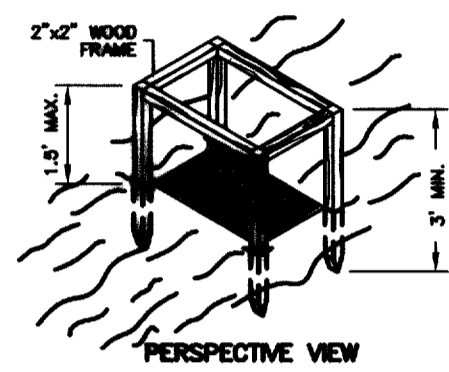
CROSS SECTION
N.T.S.

SECOND APPLICATION
THIS METHOD OF INLET PROTECTION IS APPLICABLE WHERE HEAVY CONCENTRATION FLOWS ARE EXPECTED, BUT NOT WHERE PERMANENT STRUCTURE MIGHT CAUSE EXCESSIVE AND UNEXPECTED AREA.

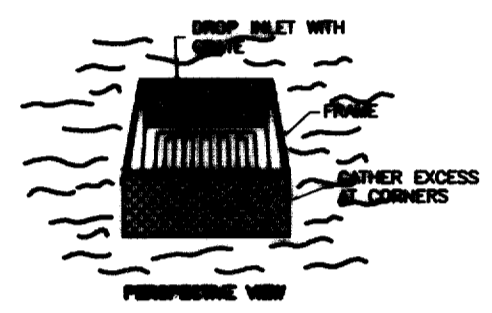
**INLET PROTECTION
WIRE MESH AND GRAVEL**
N.T.S.



ELEVATION OF STAKE AND FABRIC ORIENTATION
DETAIL



PERSPECTIVE VIEW



**ALTERNATIVE INSTALLATION
FILTER FABRIC PROTECTION**
N.T.S.

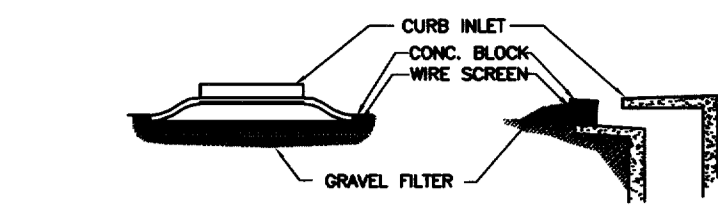
SECOND APPLICATION
THIS METHOD OF INLET PROTECTION IS APPLICABLE WHERE THE INLET DRAINS A RELATIVELY FLAT AREA (SLOPE NO GREATER THAN 10 PERCENT). THE WIRE MESH OR OVERLAND FLOWERS ARE TO EXCEED 1 C.F.S. ARE TYPICAL. THIS METHOD SHOULD NOT BE USED IN AREAS WITH CONCENTRATED FLOWS, SUCH AS IN STREETS OR HIGHWAY MEDANS.

Hazardous Waste Management	
DESCRIPTION The hazardous waste management BMP addresses the problem of storm water polluted with hazardous waste through spills or other forms of contact. The objective of the Management Program is to minimize the potential of stormwater contamination from construction activities hazardous waste through appropriate recognition, handling, storage and disposal practices.	Applications Perimeter Control Slope Protection Sediment Trapping Channel Protection Temporary Stabilization Permanent Stabilization Waste Management Housekeeping Practices
PRIMARY USE It is not the intent of this Management Program to supersede or replace normal site assessment and remediation procedures. Significant spills and/or contamination warrant immediate response by trained professionals. Suspected job-site contaminants should be immediately reported to regulatory authorities and protective actions taken. The General Permit requires reporting of significant spills to the National Response Center (NRC) at (800) 424-8802.	Targeted Constituents ○ Sediment ● Nutrients ● Toxic Materials ● Oil & Grease ● Floccable Materials ● Other Construction Wastes
INSTALLATION, APPLICATION AND DISPOSAL CRITERIA The hazardous waste management techniques presented here are based on proper recognition, handling, and disposal practices by construction workers and supervisors. Key elements of the management program are education, proper disposal practices, as well as provisions for safe storage and disposal. Following are site describing the targeted materials and recommended procedures: ● Targeted Solid Waste Materials Paints Solvents Stains Wood preservatives Cutting oils Greases Roofing tar Pesticides Fuels and lube oils Lead-based paints (Demolition)	Implementation Requirements ● Capital Costs ● Maintenance ● Training ○ Suitability for Slopes > 5%
Storage Procedures ○ Whenever possible, minimize use of hazardous materials. ○ Minimize generation of hazardous wastes on the job-site. ○ Segregate potentially hazardous waste from non-hazardous 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 available. ○ Ensure that hazardous waste collection containers are conveniently located. ○ Do not allow potentially hazardous waste materials to accumulate on the ground. ○ Enhance hazardous waste handling and disposal procedures. ○ Clearly mark on all hazardous waste containers which materials are acceptable for the container.	Legend ● Significant Impact ● Medium Impact ○ Low Impact ? Unknown or Questionable Impact
Disposal Procedures ○ Regularly schedule hazardous removal to minimize on-site storage. ○ Use only reputable, licensed hazardous waste haulers. Education ○ 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 disposal procedures (incorporate in regular safety seminars). ○ Establish a continuing education program to indoctrinate new employees.	W-2
Quality Assurance ○ Foreman and/or construction supervisor shall monitor on-site hazardous waste storage and disposal procedures. ○ Educate and if necessary, discipline workers who violate procedures. ○ Ensure that the hazardous waste disposal contractor is reputable and licensed.	
Requirements ○ Job-site hazardous waste handling and disposal education and awareness program. ○ Compliance by workers. ○ Sufficient and appropriate waste storage containers. ○ Timely removal of stored hazardous waste materials.	
Costs ○ Possible modest cost impact for additional hazardous waste management practices. ○ Compliance 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.	
LIMITATIONS This practice is not intended to address site assessments and pre-existing contamination. Major contamination, large spills and other serious hazardous waste incidents require immediate response from specialists. Demolition activities and potential pre-existing materials, such as asbestos, are not addressed by this program. Site specific information on plans is necessary. Contaminated soils are not addressed. One part of a comprehensive construction site waste management program.	

Concrete Waste Management	
DESCRIPTION Concrete waste at construction sites comes in two forms: 1) excess fresh concrete including truck and equipment washing, and 2) concrete dust and concrete debris resulting from demolition. Both forms have the potential to impact water quality through storm water runoff contact with the waste.	Applications Perimeter Control Slope Protection Sediment Trapping Channel Protection Temporary Stabilization Permanent Stabilization Waste Management Housekeeping Practices
PRIMARY USE Concrete waste is present at most construction sites. This BMP should be utilized at sites in which concrete waste is present.	Targeted Constituents ○ Sediment ● Nutrients ● Toxic Materials ● Oil & Grease ● Floccable Materials ● Other Construction Wastes
INSTALLATION, APPLICATION AND DISPOSAL CRITERIA The concrete waste management techniques presented here are based on proper recognition, handling, and disposal practices by construction workers and supervisors. Key elements of the management program are education, proper disposal practices, as well as provisions for safe storage and disposal. Following are site describing the targeted materials and recommended procedures: ● Targeted Solid Waste Materials Paints Solvents Stains Wood preservatives Cutting oils Greases Roofing tar Pesticides Fuels and lube oils Lead-based paints (Demolition)	Implementation Requirements ● Capital Costs ● Maintenance ● Training ○ Suitability for Slopes > 5%
Storage Procedures ○ Whenever possible, minimize use of hazardous materials. ○ Minimize generation of hazardous wastes on the job-site. ○ Segregate potentially hazardous waste from non-hazardous 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 available. ○ Ensure that hazardous waste collection containers are conveniently located. ○ Do not allow potentially hazardous waste materials to accumulate on the ground. ○ Enhance hazardous waste handling and disposal procedures. ○ Clearly mark on all hazardous waste containers which materials are acceptable for the container.	Legend ● Significant Impact ● Medium Impact ○ Low Impact ? Unknown or Questionable Impact
Disposal Procedures ○ Regularly schedule hazardous removal to minimize on-site storage. ○ Use only reputable, licensed hazardous waste haulers. Education ○ 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 disposal procedures (incorporate in regular safety seminars). ○ Establish a continuing education program to indoctrinate new employees.	W-3
Quality Assurance ○ Foreman and/or construction supervisor shall monitor on-site hazardous waste storage and disposal procedures. ○ Educate and if necessary, discipline workers who violate procedures. ○ Ensure that the hazardous waste disposal contractor is reputable and licensed.	
Requirements ○ Job-site hazardous waste handling and disposal education and awareness program. ○ Compliance by workers. ○ Sufficient and appropriate waste storage containers. ○ Timely removal of stored hazardous waste materials.	
Costs ○ Possible modest cost impact for additional hazardous waste management practices. ○ Compliance 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.	
LIMITATIONS This practice is not intended to address site assessments and pre-existing contamination. Major contamination, large spills and other serious hazardous waste incidents require immediate response from specialists. Demolition activities and potential pre-existing materials, such as asbestos, are not addressed by this program. Site specific information on plans is necessary. Contaminated soils are not addressed. One part of a comprehensive construction site waste management program.	

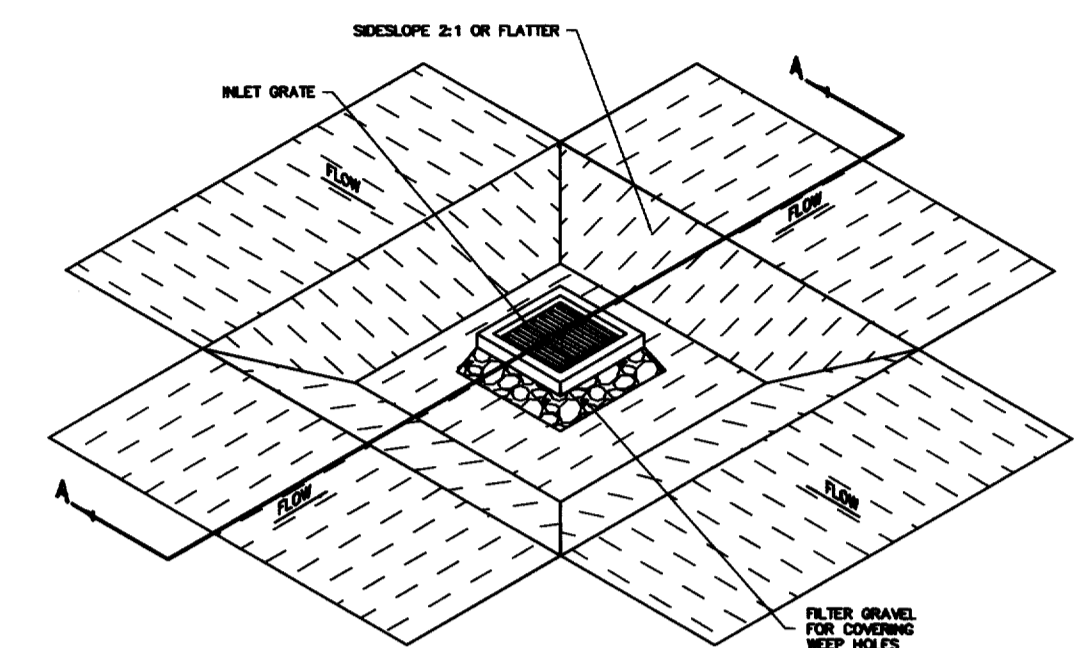
FIGURE 4.3.B
EROSION CONTROL PLAN
STANDARD GENERAL NOTES

- 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 THE PROJECT.
- 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 ENGINEERING DIVISION.
- 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 REQUIRED ON SITE.
- 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.

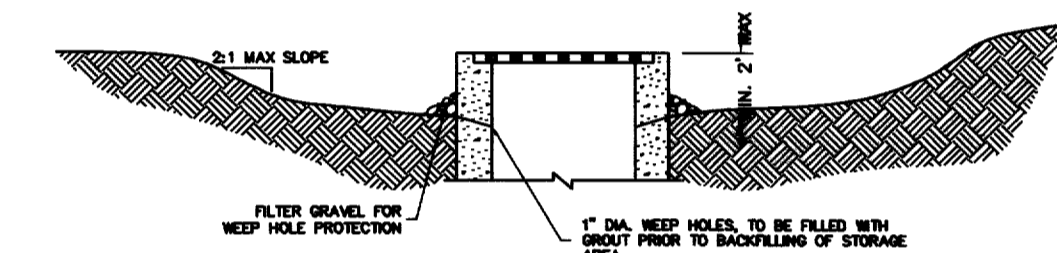


BLOCK AND GRAVEL PROTECTION
CONCRETE BLOCKS ARE TO BE PLACED ON THEIR SIDES IN A SINGLE ROW AROUND THE PERIMETER OF THE INLET WITH ENDS ADJUTING. OPENING IN THE BLOCKS SHOULD FACE OUTWARD. NO UPWARD. WIRE MESH SHALL THEN BE PLACED OVER THE OUTSIDE FACE OF THE BLOCKS COVERING THE HOLES. FILTER STONE SHALL THEN BE PILED AGAINST THE WIRE MESH TO THE TOP OF THE BLOCKS WITH THE BASE OF THE STONE BEING A MINIMUM OF 18 INCHES FROM THE BLOCKS. PERIODICALLY, WHEN THE STONE FILTER BECOMES CLOGGED, THE STONE MUST BE REMOVED AND CLEANED IN A PROPER MANNER OR REPLACED WITH NEW STONE AND PILED BACK AGAINST THE WIRE MESH.

CURB INLET PROTECTION DETAIL
N.T.S.



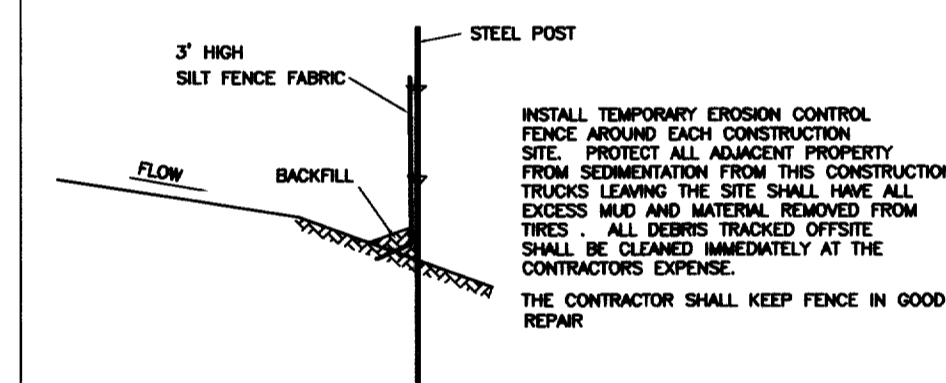
ISOMETRIC PLAN VIEW
N.T.S.



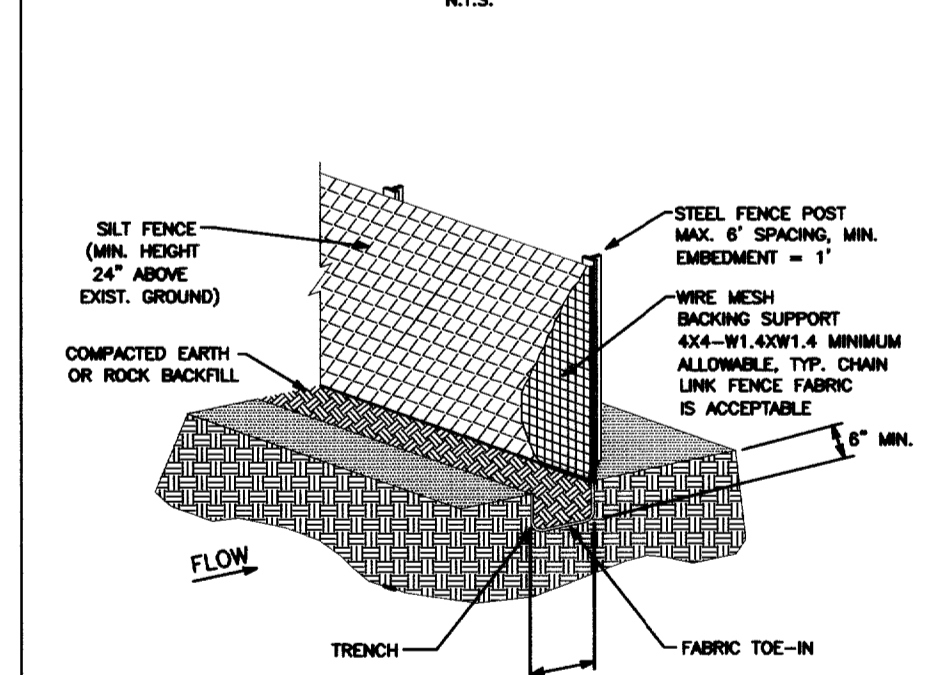
SECTION A-A
N.T.S.

**INLET PROTECTION
EXCAVATED IMPOUNDMENT**

- SILT FENCE**
- GENERAL NOTES
- SILT POSTS WHICH SUPPORT THE SILT FENCE SHALL BE INSTALLED ON A SLIGHT ANGLE TOWARD THE ANTICIPATED RUNOFF SOURCE. POST MUST BE EMBEDDED A MINIMUM OF ONE FOOT.
 - THE TOP 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 PERPENDICULAR TO THE LINE OF FLOW. WHERE FENCE CANNOT BE TRENCHED IN (E.G. PAVEMENT), WEIGHT FABRIC FLAP WITH ROCK ON UPHILL SIDE TO PREVENT FLOW FROM SEEPING UNDER FENCE.
 - 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 WITH COMPACTED MATERIAL.
 - 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.
 - INSPECTION SHALL BE MADE WEEKLY AND AFTER EACH RAINFALL. REPAIR OR REPLACEMENT SHALL BE MADE PROMPTLY AS NEEDED.
 - SILT FENCE SHALL BE REMOVED WHEN THE SITE IS COMPLETELY STABILIZED SO AS NOT TO BLOCK OR IMPEDE STORM FLOW OR DRAINAGE.
 - ACCUMULATED SILT SHALL BE REMOVED WHEN IT REACHES A DEPTH OF HALF THE 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.



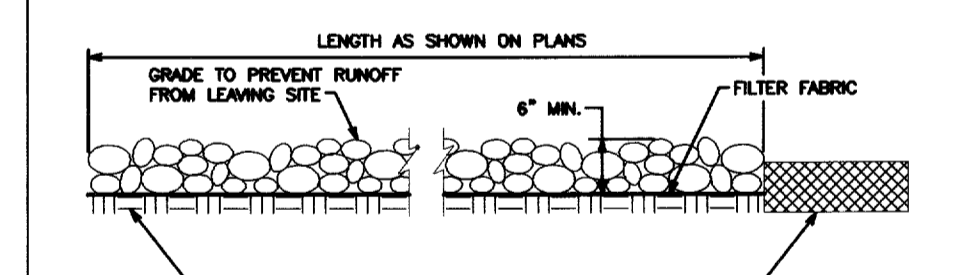
PROFILE VIEW
N.T.S.



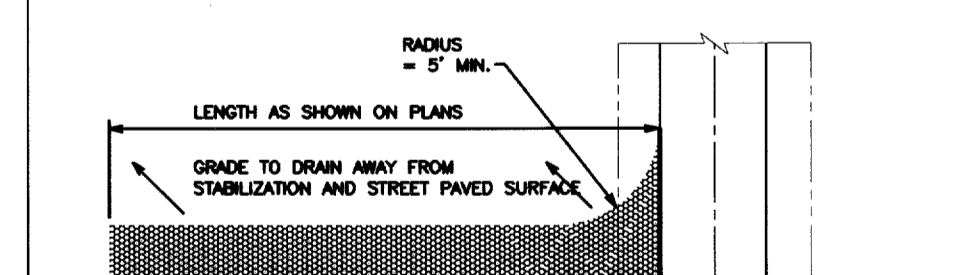
ISOMETRIC PLAN VIEW
N.T.S.

STABILIZED CONSTRUCTION ENTRANCE

- GENERAL NOTES:
- STONE SHALL BE 3 TO 5 INCH DIAMETER CRUSHED ROCK OR ACCEPTABLE CRUSHED PORTLAND CEMENT CONCRETE.
 - LENGTH SHALL BE SHOWN ON PLANS, WITH A MINIMUM LENGTH OF 30 FEET FOR LOTS WHICH ARE LESS THAN 150 FEET FROM EDGE OF PAVEMENT. THE MINIMUM DEPTH IN ALL OTHER CASES SHALL BE 50 FEET.
 - THE THICKNESS SHALL NOT BE LESS THAN 6 INCHES.
 - THE WIDTH SHALL BE NO LESS THAN THE FULL WIDTH OF ALL POINTS OF INGRESS OR EGRESS.
 - WHEN NECESSARY, VEHICLES SHALL BE CLEANED TO REMOVE SEDIMENT PRIOR TO 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 APPROVED METHODS.
 - 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.
 - THE ENTRANCE MUST BE PROPERLY GRADED OR INCORPORATE A DRAINAGE SWALE TO PREVENT RUNOFF FROM LEAVING THE CONSTRUCTION SITE.



PROFILE VIEW
N.T.S.



PLAN VIEW
N.T.S.

RECORD DRAWING
THIS DRAWING REFLECTS FIELD REVISIONS AS PROVIDED BY THE CONTRACTOR

EROSION CONTROL DETAILS

SPRINGHILL SUITES

TOWN OF ADDISON, TEXAS

DRAWN	DESIGN	DATE	NOTES	SCALE	FILE	NUMBER
JPS	JEM	05/03/01	AS	N.T.S.	MARADECS	D3

NO.	BY	DATE	REVISION
1	EAE	10/11/02	RECORD DRAWING

PATE ENGINEERS

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JOB NO. 083100900