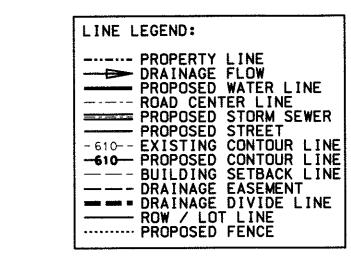
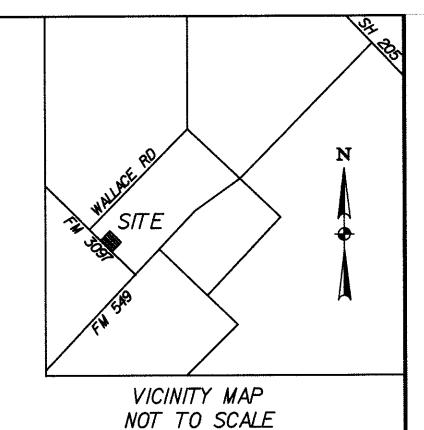


Inlet Protection - Drop Inlet





| | | Stabilize | ed Constru | ction Entra | nc | |
|--|---|---|---|---|--------------|--|
| o Tensile | Strength, AS | ist meet the following ma STM D4632 Test Methor | inimum criteria d for Grab Breaking Loai | d and Elongation of Geole | | |
| o Punctul Geome o Multen | Purcture Strength, ASTM D4833 Test Method for Index Puncture Resistance of Geolexiaes, Cedemonthares, and Reliated Prodeuts: 122-lbs. Mullern Burst Rating, ASTM D3786 Standard Test Method for Hydraulic Bursting Strength of Textille Mullern Burst Rating, ASTM D3786 Standard Test Method for Hydraulic Bursting Strength of Textille Company Strength Tester Method, 500-59; | | | | | |
| Appare | O Apparent Opening Size, ASTM 04761 Test Method for Determining Apparent Opening Size of a Cantertile U.S. Sieve Nr. 40 (max) | | | | | |
| Center | file LLS Sie | ve No 4filmax | | | | |
| Geotexi When nece streets, or p that drains i | ilie, U.S. Sie ssary, vehicl arking lots, t nto an appro | ve No. 40 (max). es must be cleaned to ti Mhon washing is require | emove sediment prior to ed, it shall be done on a ediment basio or other se | entrance onto paved road constructed wheel wash fa idimentation/filtration device | s. ciity | |
| Geotexi When necestreets, or pathet drains it | ifie, U.S. Sie ssary, vehicl erking lots, i nto an appro mensions fo | ve No. 40 (max). es must be cleaned to in When washing is require wed sediment trap or se the entrance shall be a | emove sediment prior to ed, it shall be done on a ediment basio or other se | entrance onto paved road constructed wheel wash fa | s. ciity | |
| Geotexi When necestreets, or pathet drains it | tile, U.S. Sie ssary, vehicl erking lots, t nto an appro mensions for the Area | ve No. 40 (max). es must be cleaned to h Nhen washing is require yied sediment trap or se the entrance shall be a | emove sediment prior to ed, it shall be done on a climent basic or other se as follows: Min. Width | entrance onto paved road constructed wheel wash fa idimentation/filtration device Min. Depth | s. cility | |
| Geotexi When nece streets, or p that drains i Minimum di | tile, U.S. Sie ssary, vehicl serking lots, t nto an appro mensions for ct Area | ve No. 40 (max). se must be deaned to h When washing is require eved sediment trap or se the entrance shall be a Avg. Tract Depth | emove sediment prior to ed, it shall be done on a idiment basin or other se as follows: Min. Width of Entrance | entrance onto paved road constructed wheel wash fe dimentation/filtration device Min. Depth of Entrance | s. ciity | |

ection of the construction entrance location is critical. To be effective, it must be used exclusively. SPECIFICATION
Specifications for construction of this item may be found in the Standard Specifications for Public Wor Construction — North Central Texas Council of Governments, Section 201.10 Stabilized Construction

A stiff tence consists of georextile fabric supported by wire mean netting or other backing stretched between attenues are metal posts with the lower edge of the labric securely embedded six-inches in the soil. The fence is typically located downstream of disturbed areas to intercept runoff in the form of sheet flow. A stiff tence provides both fittation and time for sediment settling by reducing the velocity of the runoff.

PRIMARY USE

Sit fence is normally used as perimeter control located downstream of disturbed areas. It is only feasible for non-concentrated, sheet flow conditions. If it becomes necessary to place a slit fence where concentrated hows may be experienced (e.g. where two sit fences join at an angle, or across minor channels or guilles), it will be necessary to reinforce the slit fence at that area by a rock bern or sand bag berm, or other structural measures that will support the slit fence at the control of the structural measures that will support the slit fence at the control of the structural measures that will support the slit fence at the control of the structural measures that will support the slit fence at the control of the structural measures that will support the slit fence.

APPLICATIONS
Silf tence is an economical means to treat overland, non-concentrated flows for all types of projects. Silf tences are used as perimeter control devices for both the developers and linear (roadway) type projects. They are most effective with to coarse to sithy soil types. Due to the potential of dogging and limited effectiveness, silf tences should be used with counton in areas that have predominantly clay soil types. In this latter instance a soils engineer or soil successful soil of the project of the soils engineer or soil seguing the project of the soil of th

DESIGN CRITERIA

Fences are to be constructed along a line of constant elevation (along a control rise) where possible.

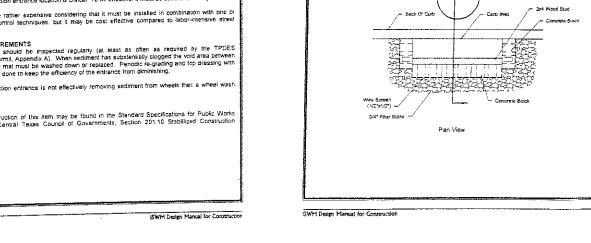
Maximum drainings area shall be 0.25 are per 100 linear feet of silt fence.

Maximum flow to any 20 foot section of silt fence shall be 10.5 feet.

Maximum distance of flow to silt fence shall be 100 feet of iess. If the slope steeds 10 percent the flow distance shall be less than 55 feet.

Maximum slope adjacent to the fance shall be 12.5 standard sieve No. 200; If 85% or less soil, by weight, passes the U.S. Standard sieve No. 200; If 85% or more of soil by weight, passes the U.S. Standard sieve No. 200; all tences shall not be used unless the soil mass its evaluated and deemed suitable by a soil scientist or geotechnical engineer concerning the ercebibity of the soil mass, dispersive characteristics, and the potential grain-size characteristics and the potential grain-size characteristics and the potential grain-size characteristics.

Silt Fence



Applications

Temporary Stabilizati

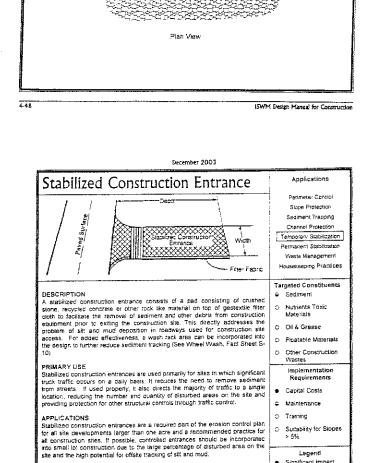
Waste Managemei Housekeeping Practic

Maintenance

Significant Impact

| | December 2003 | • |
|--|---|--|
| | Silt Fence | St |
| ם סם | Stone overflow structures or other outlet control devices shall be installed at all low points along the fence or spaced at approximately 300 feet if there is no apparent low point. Plate stone for overflow structure shall be 1-1/2" wasned stone containing no fines. Angular shaped stone is preferable to rounded shapes. Sit fence factor must, meet the following minimum interfal: Tensile Strength, ASTM D4532 Test Method for Grab Breaking Load and Elongation of Geotextiles, 96-bs. Puncture Rating, ASTM D4533 Test Method for Index Puncture Resistance of Geotextiles. Geomembranes, and Related Products, 60-bs. Mullien Burst Rating, ASTM D4535 Standard Test Method for Hydraulic Bursting Strength of Textile Fabrics-Diaphragm Bursting Strength Tester Method 260-psi. Apparent Opening Size, ASTM D4537 Test Method for Determining Apparent Opening Size of a Geotextile, U.S. Sieve No. 70 (max) lo No. 100 (min) Ultraviolet Resistance, ASTM D4535 Inimimum 70 percent. Fence posts shalf be galvanized steel and may be T-section or L-section. 1.3 pounds per linear fool minimum. | DES A st |
| o o | Six fence shall be supported by galvanized steel wire fence fabric as follows: 3. 4" x 4" mesh size. W1.4.7.4, minimum: 14-gauge wire fence fabric. 4" x 4" mesh size. W1.4.7.4, minimum: 14-gauge wire fence fabric. 5. Hop wire, 12 gauge wire, small openings installed at bottom of six fence; 5. Standard 2" x 2" chain link tence fabric, or 6. Other welder or woven steel fabrics consisting of equal or smaller spacing as that listed herein and appropriate gauge wire to provide support. 4.6-in-th wide treman is to be out 6 inches deep at the toe of the fence to allow the fabric to be laid below the surface and backfilled with combacted earth or gravef to prevent bypass of runoff under the fence. Fabric shall be retriate at abutting ends a minimum of 3 feet and shall be joined such that no leakage or bypass cocurs. Sufficient room for the operation of sediment removal equipment shall be provided between the sit fence and other obstructions in order to properly maintain the fence. The ends of the fence shall be turned upstream to prevent bypass of storm water. | cicith equal; prob acce the c (10) PRIM Stab truck from locat prov APP |
| Mino flood flow insta | TATIONS To prodring will likely occur at the upstream side of the sist fence, which could result in minor localized to prodring will likely occur at the upstream side of the sist fences are not intended for use as check dams in swales or low areas subject to concentrated Sht tences shall not be used where soil conditions prevent a minimum toe-in depth of 6 inches or illation of support posts to a depth of 12 inches. | for a all or into site a |
| critial the s MAII Silt I Perm be r sour cam | fence can interfere with construction operations; therefore planning of access routes onto the site is ref. Still fence can fail structurally under heavy storm flows, creating maintenance problems and reducing flictiveness of the system. NTENANCE REQUIREMENTS lence should be inspected regularly (at least as often as required by the TPDES Construction General int, Appendix A) for building of excess sediment, undercutting, sags, and other failures. Sediment should embyed when it reaches approximately one-half the height of the fence. In addition, determine the text of excess sediment and implement appropriate BMPs to control the erosion. If the father becomes aged or clogged, it should be repaired or replaced as necessary. CIFICATION CIFICATION Iffications for construction of this item may be found in the Standard Specifications for Public Works struction – North Central Texas Council of Governments, Section 201.5 Still Fence. | |

Inlet Protection - Cur



AS-BUILT DRAWING 2-15-16

THIS DOCUMENT IS SUBMITTED AS AN "AS-BUILT DRAWING" FOR RECORD PURPOSES ONLY. ANY MODIFICATION OR CHANGES THAT HAVE BEEN MADE DURING CONSTRUCTION AND NOTED ON THIS DRAWING HAVE BEEN SUPPLIED BY THE OWNER, HIS REPRESENTATIVE OR

THE CONTRACTOR. FIELD INSPECTION/CONTRACT SUPERVISION OF THE CONSTRUCTION WAS PERFORMED BY OTHERS. IT IS NOT GUARANTEED BY HELMBERGER ASSOCIATES, INC. THAT

THIS DOCUMENT REPRESENTS "AS-BUILT" CONDITIONS. TBPE FIRM NO. 000756

Significant impact Stabilized construction entrances are to be constructed such that drainage across the entrance is directed to a controlled, stabilized outlet on sile with provisions for storage, proper filtration, and removal of wash water. The entrance must be sloped away from the peved surface so that storm water is not allowed to leave it have from the peved surface so that storm water is not allowed to leave it have into roadways. Minimum width of entrance shall be 15 feet Store shall be placed in a tayer of at least 12-inches thickpess. The stone shall be a minimum of accesse aggregate. Fee N/A Prevent shortcutting of the full length of the constitution entrance by installing barriers as necessary.

62944

REVISION

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 THE PROJECT.

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

 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 REQUIRED ON SITE.

 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 EROSION CONTROL REQUIREMENTS. THESE AREAS SHALL BE STABILIZED WITH PERMANENT GROUND COVER PRIOR TO FINAL APPROVAL OF THE PROJECT.

 TOTAL PROJECT AREA = 0.57 ACRES

 DISTURBED AREA = 0.57 ACRES

 SEE CITY EROSION AND SEDIMENT CONTROL MANUAL FOR LATEST
- 6. SEE CITY EROSION AND SEDIMENT CONTROL MANUAL FOR LATEST BMP DEVICE STANDARDS AND SPECIFICATIONS.
- 75% TO 80% OF ALL DISTURBED AREAS TO HAVE A MINIMUM OF 1" STAND OF GRASS PRIOR TO ENGINEERING ACCEPTANCE.

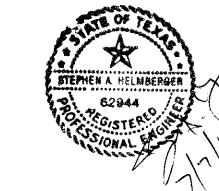
LEGEND:

--- SILT FENCE (NO WOODEN STAKES)

TEMPORARY STONE CONSTRUCTION ENTRANCE/EXIT

----- INLET PROTECTION

| ВМР | MAINTENANCE SCHED | ULE |
|---------------------------|-----------------------|------------|
| ВМР | MAINTENANCE FREQUENCY | BY: |
| SILT FENCE/STONE OVERFLOW | WEEKLY/AFTER RAINS | CONTRACTOR |
| CONST ENTRANCE | WEEKLY/AFTER RAINS | CONTRACTOR |
| INLET PROTECTION | WEEKLY/AFTER RAINS | CONTRACTOR |
| ····· | | |



RANDALL NOE ENTERPRISES INC. P.O. BOX 369
ROCKWALL, TEXAS 75087
MR. ROB WHITTLE (972) 771-5253

HELMBERGER ASSOCIATES, INC. 1525 BOZMAN ROAD WYLIE, TEXAS 75098 MR. STEPHEN A. HELMBERGER, P.E. (972) 442-7459

| <u> </u> | | | |
|----------|------|------|--|
| | | | |
| | | | |
| | | | |

EROSION CONTROL CONSTRUCTION PLAN

REV. BY:

INSTALLATION: REMOVAL: PHASE 1 - TOP SOIL REMOVAL AND ROUGH GRADING CONSTRUCTION ENTRANCE PRIOR TO PRIOR TO PAVEMENT PLACEMENT STARTING AFTER ESTABLISHING PRIOR TO STARTING STONE OVERFLOW STRUCTURE GRASS COVER INLET PROTECTION AFTER ESTABLISHING GRASS COVER PRIOR TO STARTING

| EROSION | CONTROL | PLA |
|----------------|---------|-----|
| | | |

LOT 11 BLOCK 2 - ALLIANCE ADDITION PH 2 RANDALL NOE ENTERPRISES INC.

MAY 2015

CADD

HELM.

CITY OF ROCKWALL, TEXAS

HELMBERGER ASSOCIATES, INC. TBPE REGISTRATION NO. 000756 CIVIL AND ENVIRONMENTAL ENGINEERS 1525 BOZMAN ROAD, WYLIE TEXAS 75098 (972) 442-7459 DESIGN DRAWN DATE SCALE NOTES

1"-30"

ERA

1507

EROSION CONTROL CONSTRUCTION PHASING:

PHASE 5 - LANDSCAPE AND IRRIGATION

PHASE 2 - UTILITY INSTALLATION

PHASE 3 - BUILDING CONSTRUCTION

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PHASE 4 - PAVING