Suppliers of Liquid Caustic Soda

The following are verified suppliers of liquid Caustic soda 20% to 25% by volume; other suppliers may exist. A ten to fifteen-day lead time may be required when placing an order.

Midwest Lubricants

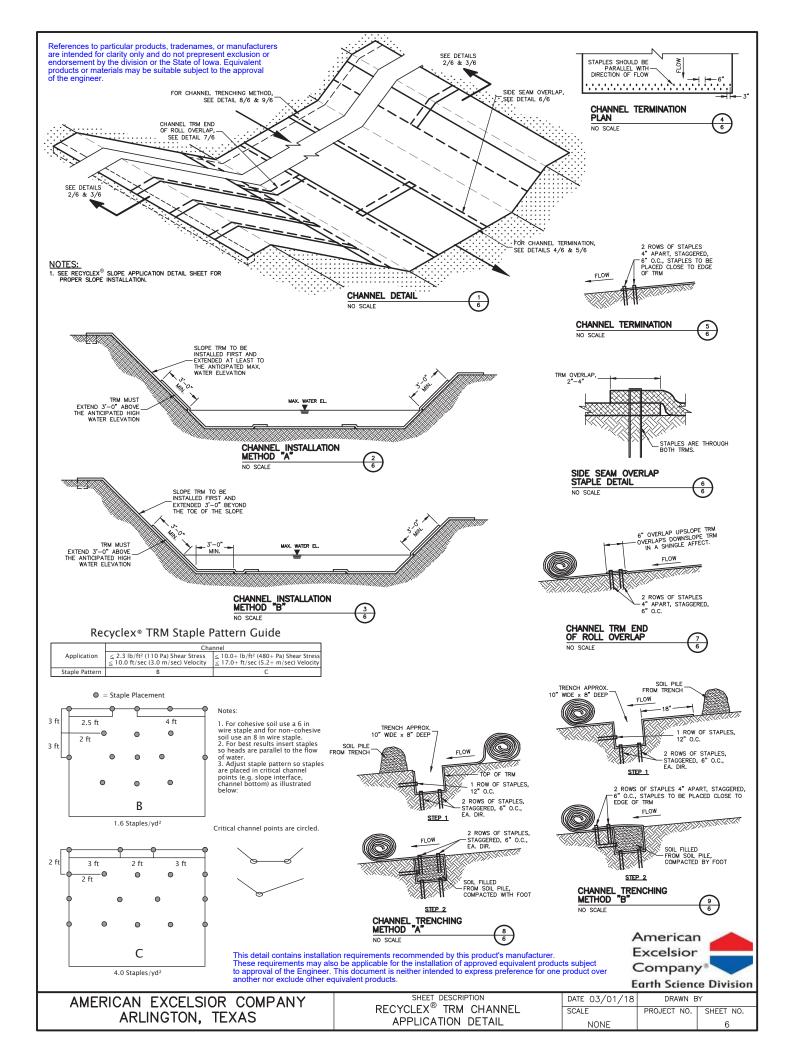
Fredericktown, MO Contact: Mark Brewington, Tel: 314-808-1192 <u>mark@midwestlubricants.com</u>

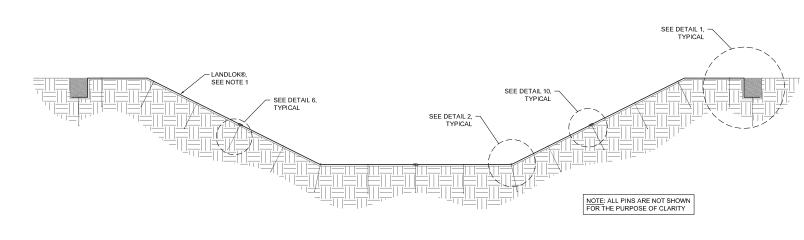
PVS Nolwood Chemicals, Inc.

Detroit, MI Contact: Michael McGuire, Tel: 800-284-9735 or 313-580-7692 <u>MMcGuire@pvschemicals.com</u>

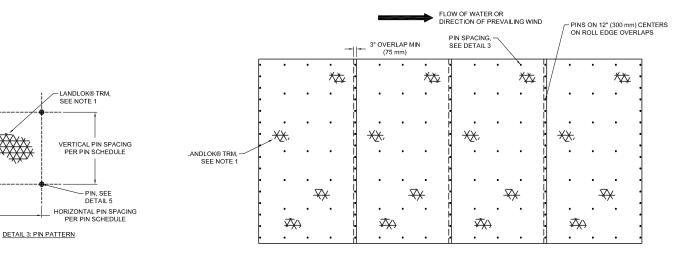
Barton Solvents

Des Moines, IA Contact: Dustin Penick, Tel: 515-729-2970 <u>dustinp@barsol.com</u>

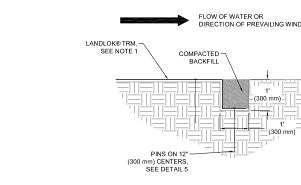












DETAIL 9: INITIAL CHANNEL (IC) TRENCH (DOWNSTREAM)



- SOIL FILL AND SEED, SEE NOTE 5

SELECT FILL MATERIAL

ENGINEER OF RECORD

AS SPECIFIED BY

LANDLOK® S2 ECB, SEE NOTE 3

TYPICA

DETAIL 8: VEGETATION ESTABLISHMENT

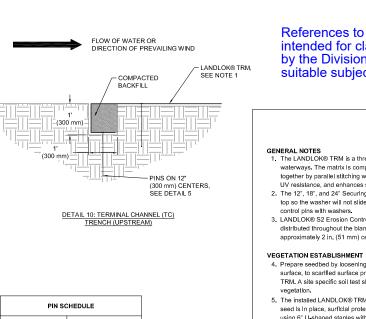
SEE DETAIL 5.

LANDLOK® TRM

PREPARED SEEDBED

SEE NOTE 1

SEE NOTE 4



BEFORE INSTALLATION BEGINS

by the contractor with at least a two week notice.

8. Gather the Tools Needed: Tools that you will need to Install the LANDLOK® TRM Include a pair of Industrial shears to cut the LANDLOK® TRM and tape measure 9. Determine how to Establish Vegetation: The method of vegetation establishment should be determined prior to the start of installation. Different vegetation establish require different orders of installation. Refer to Establish Vegetation for further guidance. 10. Please consult the Propex Website for the most up to date installation guidelines.

another nor exclude other equivalent products.

COMPACTED

LANDLOK® TRM

- 1.5" (38 mm) DIAMETER

STEEL WASHER

DIAMETER STEEL

SEE NOTE 2 FOR

PIN DESCRIPTION

- 0.20" (5 mm)

12 - 24

DETAIL 5: PIN

SECURING DEVICE

HORIZONTAL PIN SPACING

VERTICAL PIN SPACING

MBEDMENT DEPTH

PIN

2' (0.60 m)

2.5' (0.75 m)

PER MANUFACTURE

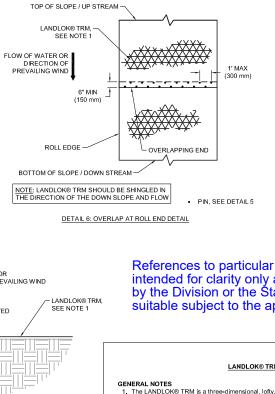
DESIGN

SEE NOTE 1

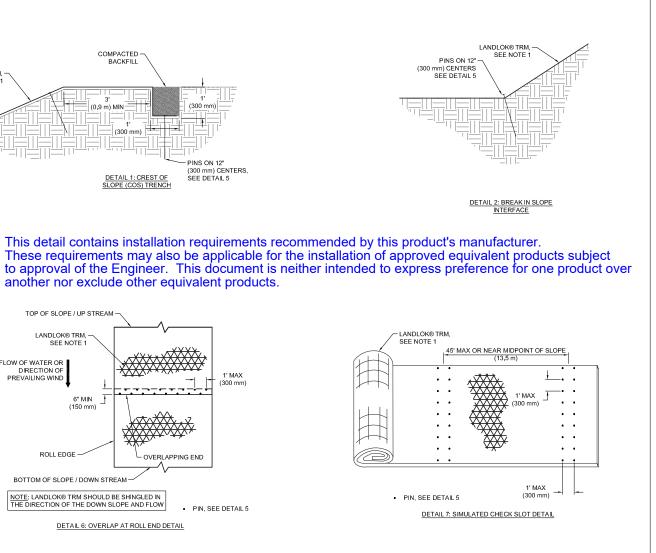
BACKFILL

(300

PINS ON 12" (300 mm) CENTERS, SEE DETAIL 5



- - UV resistance, and enhances seedling emergence.



References to particular products, tradenames, or manufacturers are intended for clarity only and do not prepresent exclusion or endorsement by the Division or the State of Iowa. Equivalent products or materials may be suitable subject to the approval of the engineer.

LANDLOK® TRM IN A CHANNEL FOR EROSION CONTROL GENERAL INSTALLATION GUIDELINES

1. The LANDLOR® TRM is a three-dimensional, lofty, stitch-bonded polypropylene geotextile which is specially designed for erosion control applications on steep slopes and vegetated waterways. The matrix is composed of a dense web of crimped, interlocking fibers featuring X3® technology positioned between two biaxially oriented nets and mechanically bound ether by parallel stitching with polypropylene thread. The material exhibits very high interlock and reinfo

2. The 12", 18", and 24" Securing Pins are composed of a wire, mushroomed at the top. A washer is then placed on the wire and the wire is crimped or swedged about 3-1/2" below the top so the washer will not slide off. The end of the wire is cut at a 45 degree angle for easy penetration of the soil. These Pins with washers conform to industry standards for erosion

3. LANDLOK® 52 Erosion Control Blankets consist of 100% wheat straw mechanically bound and covered on both sides by netting. The straw is homogeneously blended and evenly distributed throughout the blanket. The netting is photodegradable polypropylene with mesh openings of approximately 3/8 in. by 3/8 in. (11 mm by 11 mm). The blanket is sewn or approximately 2 in. (51 mm) centers with photodegradable polypropylene thread. This product is NTPEP approved for AASHTO standards.

4. Prepare seedbed by loosening 50 to 75 mm (2 to 3 in) of soil above final grade. Apply seed in an amount equivalent to 60% of the total mixture required to be installed on the soil surface, to scarified surface or lor to Installation of the LANDLOK® TRM. Select and apoly soil amendments and fertilizer, to scarified surface prior to Installation of the LANDLOK® TRM. A site specific soil test should be performed to help determine what soil amendments, such as lime and fertilizer, need to be incorporated into the soil to promote healthy

5. The installed LANDLOK® TRM shall be soil filled and seeded with the remaining 40% of the seed mixture. Do not place excessive soil above material. Once soil fill and additional seed is in place, surficial protection should be accomplished by installing LANDLOK® S2 Erosion Control Blanket (ECB) atop the seed layer. LANDLOK® S2 ECB is to be secured using 6" U-shaped staples with a frequency of 2.0 staples per square meter (1.7 staples per square yard).

6. Irrigate as necessary to establish and maintain vegetation until 75% of vegetation has established and has reached a height of 2 inches. Frequent, light irrigation will need to be applied to seeded areas if natural rain events have not occurred within two weeks of seeding.

7. Coordinate with a Propex Representative: A pre-construction meeting is suggested with the construction team and a representative from Propex. This meeting should be scheduled