

SEAN ACKLEY LICENSE # PE-2009018679

Civil Engineer

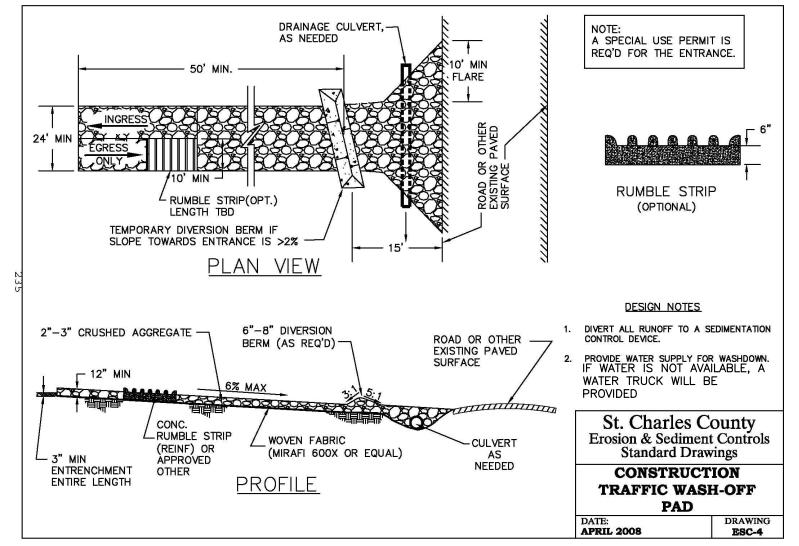
SWPPP

P+Z No. 17-005894

City No. 17-008288 01/11/18 **Job No.** 17-02-041

Page No.

STEEL FENCE POSTS OR 2x4 WOOD FRAME MIN LENGTH 3' MAX LENGTH 3½' TEMPORARY BERM -1% MAX SLOPE 1' HIGHER THAN SILT 1.5' MAX WITHIN 3' OF FENCE TO PREVENT DESIGN CRITERIA <u>PERSPECTIVE</u> 1. MAXIMUM DRAINAGE AREA - 1 ACRE. 2. PEAK RUNOFF SHALL NOT EXCEED 2 CFS BASED ON A 6-MONTH STORM EVENT. 3. OTHER SEDIMENT PROTECTION PRODUCTS MAY BE USED, SUCH AS FIITR FENCETM. BACKFILLED AND - WOVEN FABRIC **FABRIC** 6" MIN DEPTH St. Charles County - GATHER EXCESS FABRIC AT CORNERS, OVERLAP TO THE NEXT STAKE **Erosion & Sediment Controls** Standard Drawings FOR JOINTS **AREA INLET** PROJECT SPECIFIC DETAIL **PROTECTION** FABRIC DROP **ELEVATION**







Installation Made Easy

We are the industry leader when it comes to providing comprehensive erosion and sediment control and turf reinforcement solutions. We have developed integrated systems and products with the sole objective to ensure absolute customer satisfaction. Our products are backed by the most thorough quality assurance practices in the industry. In addition, we provide comprehensive design assistance for every North American Green system.

For additional installation assistance with the RollMax System, please visit www.tensarnagreen.com, e-mail customerservice-nag@nagreen.com, or call 800-772-2040 and we will be happy to put you in touch with an erosion control specialist who can assist you.

EXPERIENCE YOU CAN RELY ON



RollMax" Installation Guidelines:

North American Green is the world's leading provider of

than 25 years, our line of erosion and sediment control

products has kept our customers on solid ground. Our

ahead of just about any erosion challenge.

installation of the RollMax System.

performance-guaranteed erosion control solutions. For more

short-term and long-term Erosion Control Blankets (ECBs)

North American Green provides everything you need to know

for quick, accurate erosion control installation tailored to your

System™ product installation instructions are based on

extensive research and field-proven techniques to ensure

project success. The following pages offerinstructions and

guidelines for several scenarios you may encounter during the

site. From start to finish, the North American Green® RollMax

and Turf Reinforcement Mats (TRMs) keep you one step



When under the pressure of severe conditions, even the best erosion control products can't function to their full potential without proper installation and anchoring. North American Green supplies a wide variety of fastener options for nearly every application and soil type.

means to fasten RollMax?" System Rolled Erosion Control Products (RECPs). Available in 6 in., 8 in., 10 in. and 12 in. lengths, our U-shaped staples reach various depths to ensure adequate pull-out resistance. For installation using our handy Pin Pounder installation tool, 6 in. V-top staples or 6 in. circle top pins are available.

For use in cohesive soils, wire staples are a cost-effective

Our biodegradable BioStalœs® are available in 4 in. and 6 in. lengths and provide an environmentally friendly alternative to metal staples. For an even more durable, deeper reaching yet all-natural anchoring option, our wood EcoStalœs® are available in 6 in., 12 in., 18 in. and 24 in. lengths.

FIGURE 1

under extreme hydraulic stresses and adverse soil conditions. STAPLE PATTERNS Proper staple patterns must be used to achieve optimal results in RECP installation. We recommend the following general stapling patterns as guidance for use with our RECPs as seen in (Figure 1). Site-specific staple pattern recommendations based on soil type and severity of application may be acquired through our Erosion Control Materials Design

Software (ECMDS®), www.ecmds.com.

For severe applications needing the ultimate, long-lasting

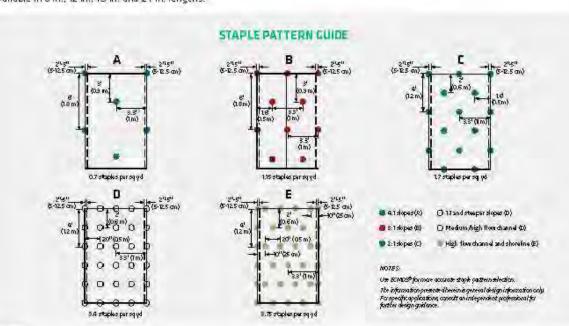
hold, try our 12 in. and 18 in. rebar staples, our 12 in. plastic

ShoreMax® stakes, or our complete line of percussion earth

anchors. The earth anchors reach deep into the soil strata to

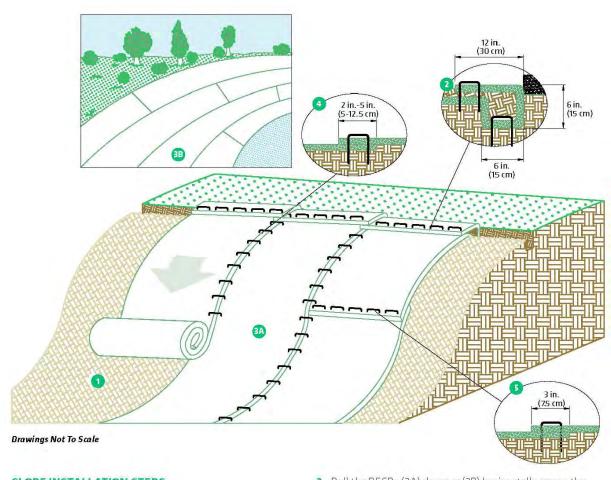
earth anchors are designed for durability and holding power

offer enhanced anchoring in the worst conditions. Our variety of



Slope Installation

The following slope guide outlines general recommendations for installing RollMax™ System temporary and/or permanent RECPs on sloping applications. Consult the staple pattern guide (Figure 1) for fastener spacing recommendations based on the slope severity.



SLOPE INSTALLATION STEPS

1. Prepare soil before installing RECPs, including any necessary application of lime, fertilizer and seed.

2. Begin at the top of the slope by anchoring the RECPs in a 6 in. (15 cm) deep x 6 in. (15 cm) wide trench with approximately 12 in. (30 cm) of RECPs extended beyond the upslope portion of the trench. Anchor the RECPs with a row of staples/stakes approximately 12 in. (30 cm) apart in the bottom of the trench. Backfill and compact the trench after stapling. Apply seed to the compacted soil and fold the remaining 12 in. (30 cm) portion of RECPs back over the seed and compacted soil. Secure RECPs over compacted soil with a row of staples/stakes spaced approximately 12 in. (30 cm) apart across the width of the RECPs.

3. Roll the RECPs (3A) down or (3B) horizontally across the slope. RECPs will unroll with appropriate side against the soil surface. All RECPs must be securely fastened to soil surface by placing staples/stakes in appropriate locations as shown in the staple pattern guide.

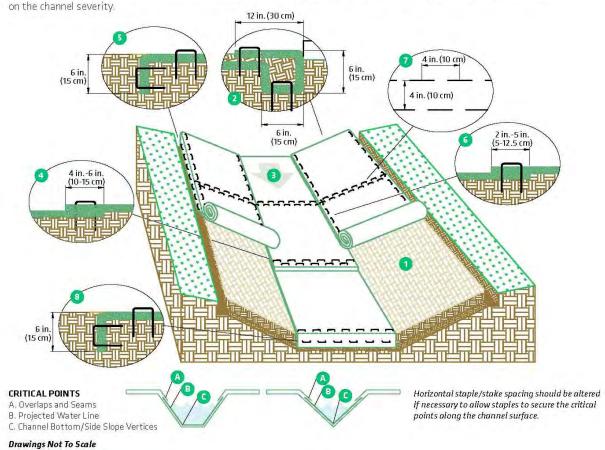
4. The edges of parallel RECPs must be stapled with an approximately 2 in.-5 in. (5-12.5 cm) overlap depending on the RECP type.

5. Consecutive RECPs spliced down the slope must be endover-end (shingle style) with an approximate 3 in. (7.5 cm) overlap. Staple through overlapped area, approximately 12 in. (30 cm) apart across entire RECPs width.*

*NOTE: In adverse soil conditions longer staples/stakes or earth anchors may be necessary to properly secure the RECPs.

Channel Installation

The following channel guide outlines general recommendations for installing RollMax System temporary and/or permanent RECPs in concentrated flow applications. Consult the staple pattern guide (Figure 1) for fastener spacing recommendations based



CHANNEL INSTALLATION STEPS

1. Prepare soil before installing RECPs, including any necessary application of lime, fertilizer and seed.

2. Begin at the top of the channel by anchoring the RECPs in a 6 in. (15 cm) deep x 6 in. (15 cm) wide trench with approximately 12 in. (30 cm) of RECPs extended beyond the upslope portion of the trench. For supplemental scour protection, use RevetMax™ System ShoreMax® Mat at the channel/ culvert outlet as needed. Anchor the RECPs with a row of staples/stakes approximately 12 in. (30 cm) apart in the bottom of the trench, Backfill and compact the trench after stapling. Apply seed to the compacted soil and fold the remaining 12 in. (30 cm) portion of RECPs back over the seed and compacted soil. Secure RECPs over compacted soil with a row of staples/stakes spaced approximately 12 in. (30 cm) apart across the width of the RECPs.

3. Roll center RECPs in direction of water flow in bottom of channel. RECPs will unroll with appropriate side against the soil surface. All RECPs must be securely fastened to soil surface by placing staples/stakes in appropriate locations as shown in the staple pattern guide.

- 4. Place consecutive RECPs end-over-end (shingle style) with a 4 in.-6 in. (10-15 cm) overlap. Use a double row of staples staggered 4 in. (10 cm) apart and 4 in. (10 cm) on center to secure RECPs.
- 5. Full-length edge of RECPs at top of side slopes must be anchored with a row of staples/stakes approximately 12 in. (30 cm) apart in a 6 in. (15 cm) deep x 6 in. (15 cm) wide trench. Backfill and compact the trench after stapling.
- 6. Adjacent RECPs must be overlapped approximately 2 in.-5 in. (5-12.5 cm) (depending on RECP type) and stapled.* 7. In high flow channel applications a staple check slot is recommended at 30 to 40 ft (9-12 m) intervals. Use a double row of staples staggered 4 in. (10 cm) apart and
- 4 in. (10 cm) on center over entire width of the channel. 8. The terminal end of the RECPs must be anchored with a row of staples/stakes approximately 12 in. (30 cm) apart in a 6 in. (15 cm) deep x 6 in. (15 cm) wide trench. Backfill and compact the trench after stapling.

*NOTE: In adverse soil conditions longer staples/stakes or earth anchors may be necessary to properly secure the RECPs.

NA GREEN SC150BN ECB INSTALLATION CUIDELINES PROJECT SPECIFIC DETAIL