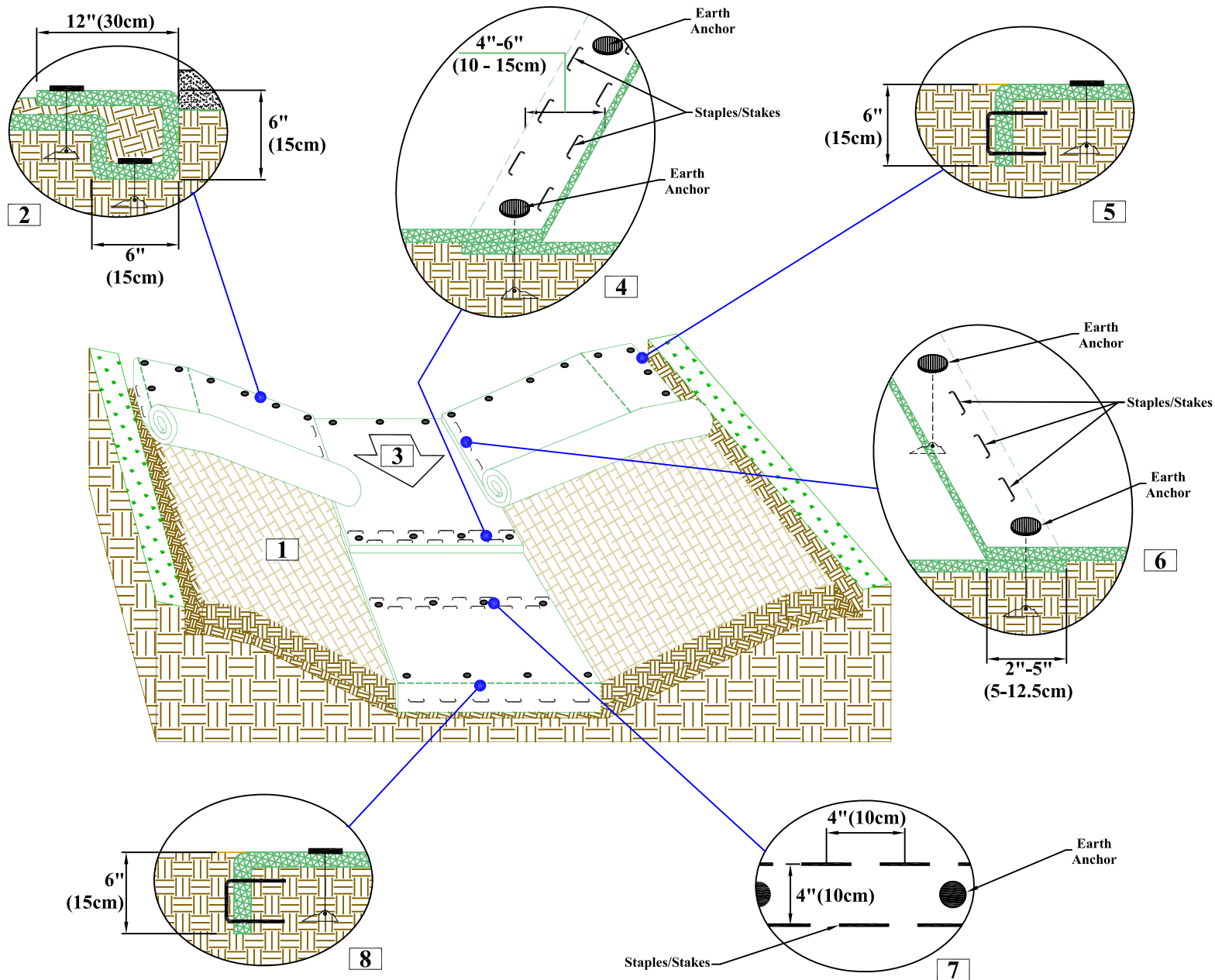


# CHANNEL INSTALLATION EARTH ANCHOR (EA) DETAIL



Drawing Not To Scale

**Tensar**
**NORTH  
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GREEN®**

 5401 St. Wendel - Cynthiana Rd.  
Poseyville, IN 47633

 PH: 800-722-2040  
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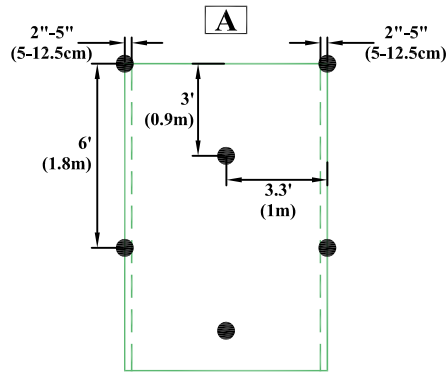
**Disclaimer:**

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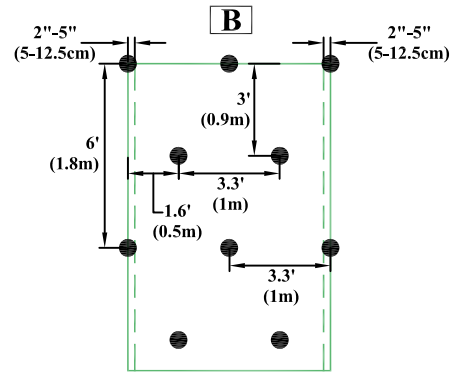
Drawn on: 03-07-11

1. Prepare soil before installing TRM, including any necessary application of lime, fertilizer, and seed.
2. Begin at the top of the channel by anchoring the TRM in a 6" (15 cm) deep x 6" (15cm) wide trench with approximately 12" (30 cm) of TRM extended beyond the up-slope portion of the trench. Use ShoreMax mat at the channel/culvert outlet as supplemental scour protection as needed. Anchor the TRM with a row of staples and anchors approximately 12" (30 cm) apart in the bottom of the trench. Backfill and compact the trench after stapling. Apply seed to compacted soil and fold remaining 12" (30 cm) portion of TRM back over seed and compacted soil. Secure TRM over soil with a row of staples and anchors spaced approximately 12" (30 cm) across the width of the TRM.
3. Roll center TRM in direction of water flow in bottom of channel. TRM will unroll with appropriate side against the soil surface. All TRM must be securely fastened to soil surface by placing staples and anchors in appropriate locations as shown in the fastener pattern guide.
4. Place consecutive TRM end-over-end (shingle style) with a 4" - 6" (10 cm - 15 cm) overlap. Use a double row of staples staggered 4" (10 cm) apart and 4" (10 cm) on center to secure TRM.
5. Full length edge of TRM at top of side slopes must be anchored with a row of staples and anchors approximately 12" (30 cm) apart in a 6" (15 cm) deep x 6" (15cm) wide trench. Backfill and compact the trench after stapling.
6. Adjacent TRM must be overlapped approximately 2" - 5" (5 cm - 12.5 cm) (depending on TRM type) and fastened.
7. In high flow channel applications, a staple check slot is recommended at 30 to 40 foot (9 m - 12 m) intervals. Use a double row of staples staggered 4" (10 cm) apart and 4" (10cm) on center over entire width of the channel.
8. The terminal end of the TRM must be anchored with a row of stakes and anchors approximately 12" (30 cm) apart in a 6" (15 cm) deep x 6" (15 cm) wide trench. Backfill and compact the trench after stapling.

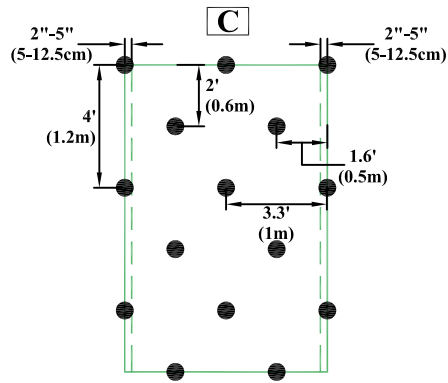
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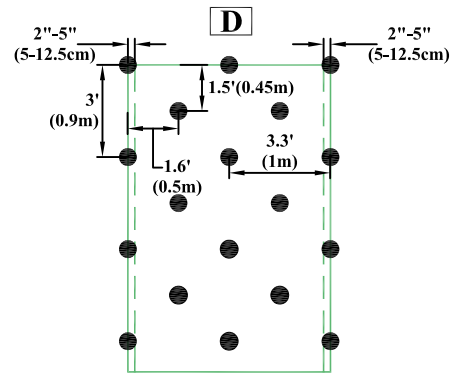
0.7 Anchors per SQ. YD.  
(0.8 Anchors per SQ. M.)



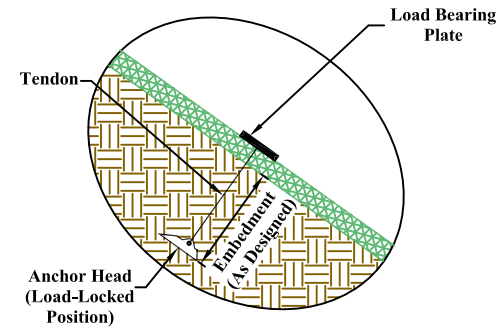
1.15 Anchors per SQ. YD.  
(1.35 Anchors per SQ. M.)



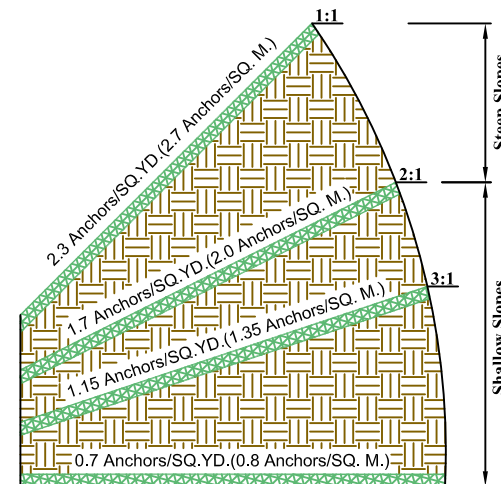
1.7 Anchors per SQ. YD.  
(2.0 Anchors per SQ. M.)



2.3 Anchors per SQ. YD.  
(2.7 Anchors per SQ. M.)



Earth Anchor  
Detail



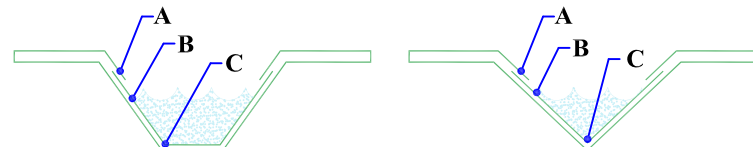
Slope Gradient  
Detail

## NOTES:

- \* The performance of ground anchoring devices is highly dependent on numerous site/project specific variables. It is the sole responsibility of the project engineer and/or contractor to select the appropriate anchor type and length. Anchoring shall be selected to hold the mat in intimate contact with the soil subgrade and resist pullout in accordance with the project's design intent.
- \* Anchor Pattern Guide can vary based on earth anchor and blanket selection.
- \* If desired, the system can be soil-filled and sodded after TRM installation. Sod should be staples/staked according to plan specifications.

## CRITICAL POINTS

- A. Overlaps and Seams
- B. Projected Water Line
- C. Channel Bottom/Side Slope Vertices



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