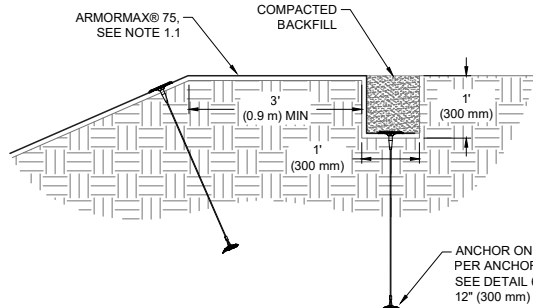
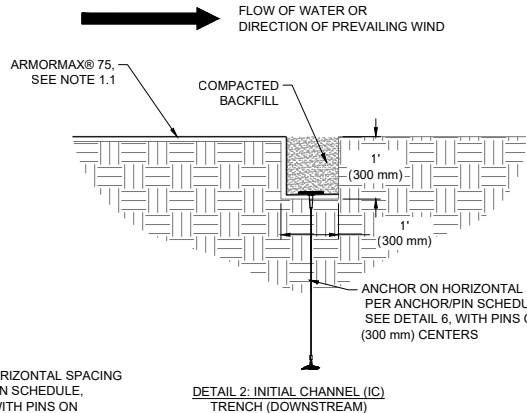


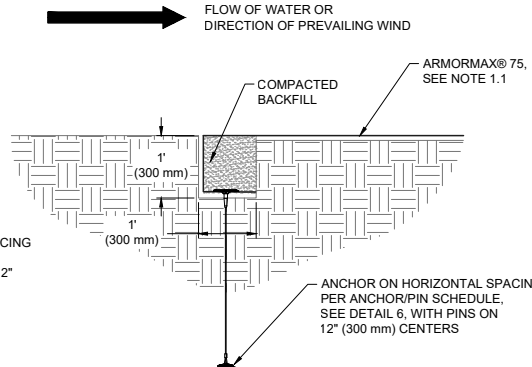
ELEVATION 1: PERPENDICULAR INSTALLATION OF ARMORMAX® 75 IN A CHANNEL



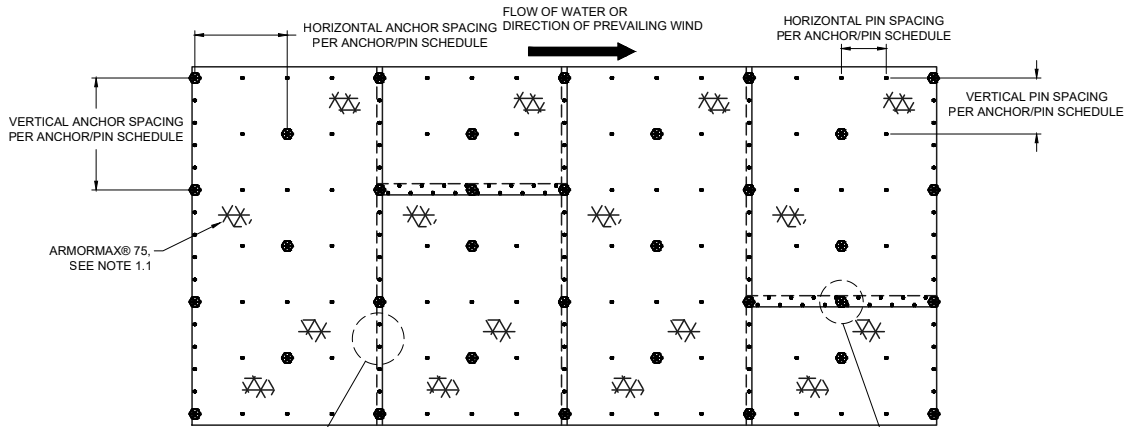
DETAIL 1: CREST OF SLOPE (COS) TRENCH



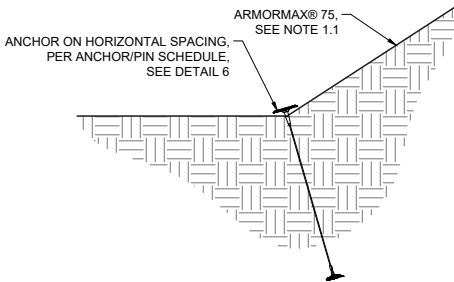
DETAIL 2: INITIAL CHANNEL (IC) TRENCH (DOWNSTREAM)



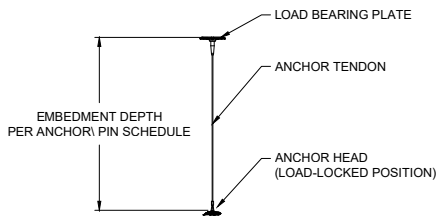
DETAIL 3: TERMINAL CHANNEL (TC) TRENCH (UPSTREAM)



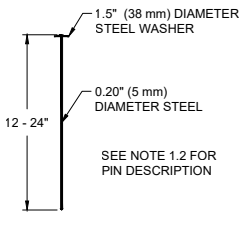
DETAIL 4: PIN PATTERN AND OVERLAPS



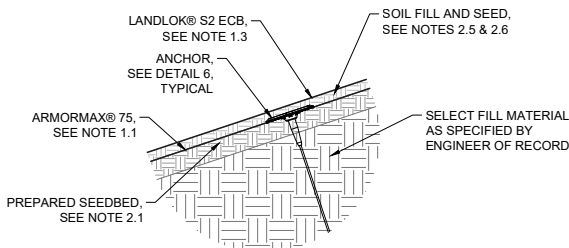
DETAIL 5: BREAK IN SLOPE INTERFACE



DETAIL 6: ENGINEERED EARTH ANCHOR



DETAIL 7: PIN



DETAIL 8: VEGETATION ESTABLISHMENT

| ANCHOR/PIN SCHEDULE | | |
|---------------------------|---------------------------|---------------------------|
| SECURING DEVICE | ANCHOR | PIN |
| HORIZONTAL ANCHOR SPACING | PER MANUFACTURER'S DESIGN | PER MANUFACTURER'S DESIGN |
| VERTICAL ANCHOR SPACING | PER MANUFACTURER'S DESIGN | PER MANUFACTURER'S DESIGN |
| EMBEDMENT DEPTH | PER MANUFACTURER'S DESIGN | PER MANUFACTURER'S DESIGN |



NOTE: THE STANDARD DETAILS ILLUSTRATED IN THESE DRAWINGS ARE FOR INFORMATION AND EVALUATION PURPOSES ONLY AND ARE NOT FOR CONSTRUCTION. PROJECT SPECIFIC CALCULATIONS, SHOP DRAWINGS AND SPECIFICATIONS, SIGNED AND SEALED BY A REGISTERED LICENSED ENGINEER, ARE REQUIRED FOR CONSTRUCTION.

CONCEPTUAL INSTALLATION DETAILS

ARMORMAX® 75 FOR CHANNELS

| | | | | | | | |
|-------|------------|--------|-----|-------|---|----|---|
| DATE: | 07/01/2024 | SCALE: | NTS | SHEET | 1 | OF | 1 |
|-------|------------|--------|-----|-------|---|----|---|

ARMORMAX® 75 IN A CHANNEL FOR EROSION CONTROL GENERAL INSTALLATION GUIDELINES

1. GENERAL NOTES

- ARMORMAX® 75 is an engineered solution used for permanent erosion protection or surficial slope stability in vegetated and unvegetated applications. It is composed of two components: PYRAMAT® 75 High Performance Turf Reinforcement Mat (HPTRM) and Engineered Earth Anchors. ARMORMAX® 75 is available in green or tan to provide for an aesthetically pleasing solution with proven performance.
 - PYRAMAT® 75 HPTRM is a three-dimensional, lofty, woven polypropylene geotextile that is available in green or tan which is specially designed for erosion control applications on steep slopes and vegetated waterways. The matrix is composed of polypropylene monofilament yarns featuring X3® technology woven into a uniform configuration of resilient pyramid-like projections. The material exhibits very high interlock and reinforcement capacity with both soil and root systems, demonstrates superior UV resistance, and enhances seedling emergence.
 - The B1 Anchor model is used for permanent erosion protection applications and has a working load of up to 500 lbs. The B1 Anchor consists of an aluminum anchor head, galvanized steel cable, aluminum ferrules, aluminum load-locking mechanism, and an aluminum top plate. The bullet nose design of the anchor head allows the anchor to penetrate HPTRM resulting in minimal installation damage. The B1 Anchor is also designed with a recessed cavity so the top of the cable can be cut below the surface being protected.
- 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 swaged 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 control pins with washers.
- LANDLOK® S2 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 on approximately 2 in. (51 mm) centers with photodegradable polypropylene thread. This product is NTPEP approved for AASHTO standards.

2. VEGETATION ESTABLISHMENT

- Prepare seedbed by loosening/scarifying top 2 to 3 in. (50 to 75 mm) of the soil surface.
- Apply any necessary soil amendments needed to promote healthy vegetation.
- Sow 25-35% of the total permanent seed mixture to the prepared seedbed. Note this seed mixture amount is in addition to the 100% total seed mixture being applied in further steps.
- Install ARMORMAX® 75 per guidelines and specifications.
- Soil-fill the ARMORMAX® 75 with 1 to 2 in. (25 to 50 mm) of amended topsoil or fill with a biotic soil media. Do not place excessive soil above the ARMORMAX® 75 material.
- Apply 100% of the total permanent seed mixture onto the topsoil/biotic soil media by broadcasting. Sown seed may need to be raked into place to ensure good contact between seed and soil.
- Install surficial protection with LANDLOK® S2 Erosion Control Blanket (ECB). LANDLOK® S2 ECB is to be secured using 6" U-shaped staples with a frequency of 1.7 staples per square yard (2.0 staples per square meter).
- Water and/or irrigate seeded areas as needed to establish and maintain vegetation until the desired vegetative density has been achieved. Frequent, light irrigation will need to be applied to seeded areas if natural rain events have not occurred within two weeks of seeding.
- Rubber-tired or rubber-tracked vehicles shall be used, and sharp turns avoided. No heavy and/or metal tracked equipment or sharp turns shall be permitted on the installed ARMORMAX® 75. Foot traffic and construction equipment shall be avoided over the ARMORMAX® 75 if loose or wet soil conditions exist.

BEFORE INSTALLATION BEGINS

- 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 by the contractor with at least a two week notice.
- Gather the Tools Needed: Tools that you will need to install ARMORMAX® 75 include a pair of industrial shears to cut PYRAMAT® 75, tape measure, percussion hammer (sized appropriately for the anchors), ground rod driver compatible with the percussion hammer, drive steel compatible with the anchor, setting tool to set and load-lock the anchor, and wire cutters to cut the cable tendon of the anchor. If anchors will be load tested during construction, additional testing equipment may be necessary. Consult the "Anchor Load Test Manual" from Propex for further guidance. Available for purchase from Propex are drive steel, setting tools, and wire cutters.
- Determine how to Establish Vegetation: The method of vegetation establishment should be determined prior to the start of installation. Different vegetation establishment methods require different orders of installation. Refer to Establish Vegetation for further guidance.
- A site specific soil test should be conducted to determine the recommended soil amendments required to establish permanent vegetation.
- Please consult the Propex Website for the most up to date installation guidelines.