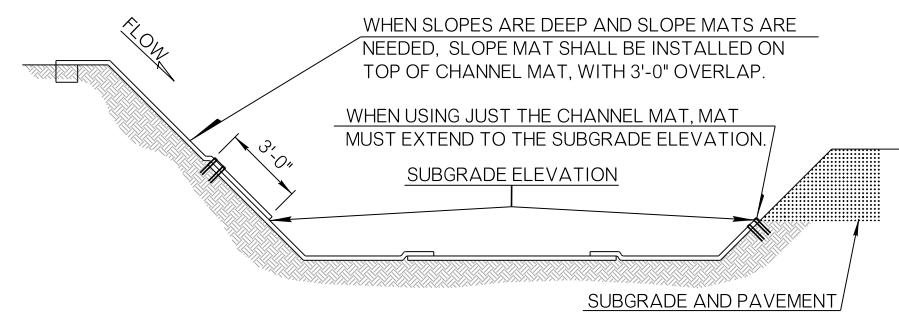
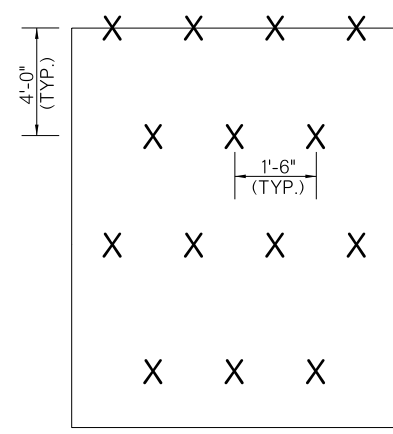


CHANNEL INSTALLATION

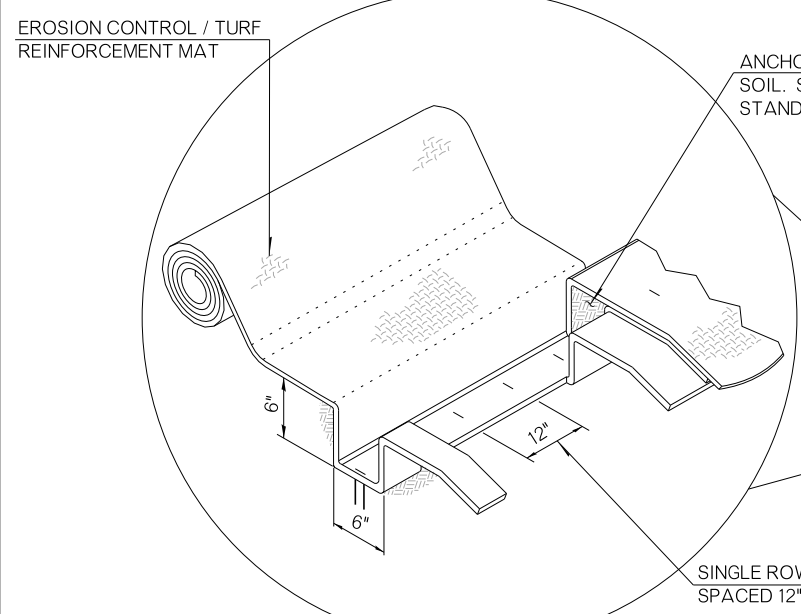


CHANNEL ELEVATION DETAIL

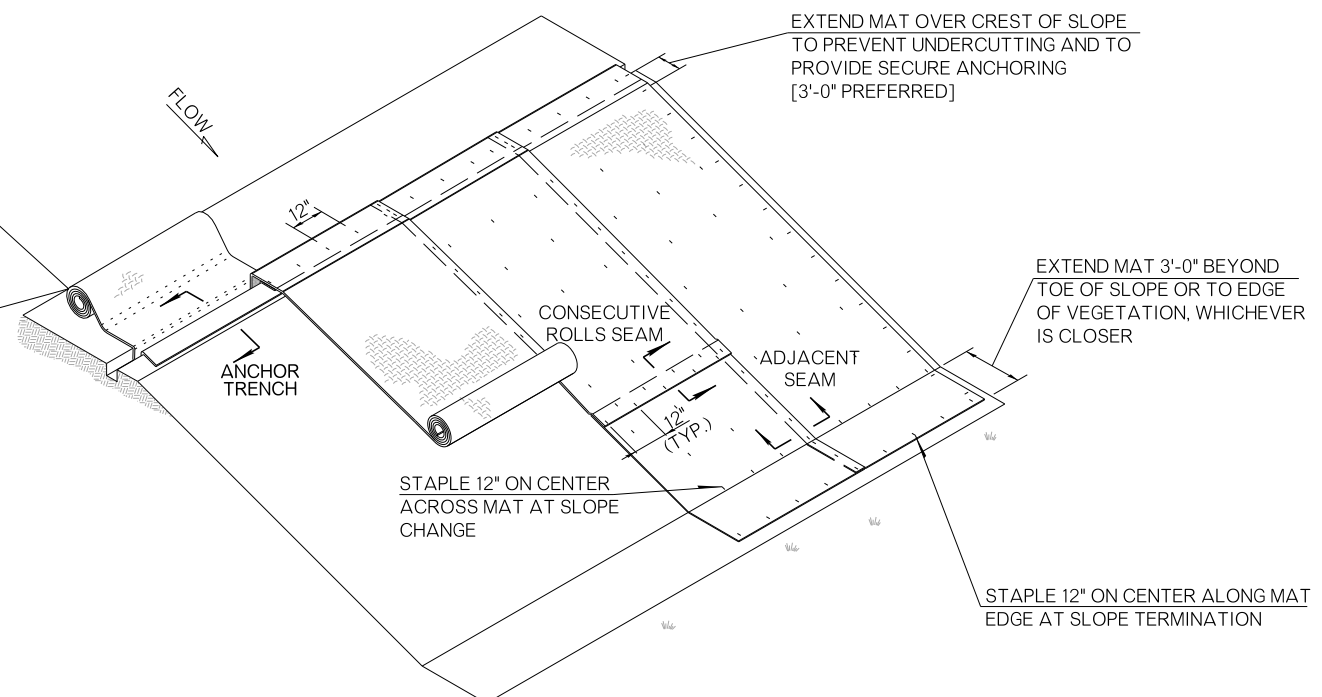


STAPLE PATTERN

NOTE: FOR DETAILS OF EACH SECTION SHOWN SEE ROADWAY STANDARD EROSION CONTROL / TURF REINFORCEMENT MAT INSTALLATION DETAILS (2 OF 2 SHEETS)



ANCHOR TRENCH DETAIL



SLOPE INSTALLATION

NOTE: IF SHEET FLOW WILL BE ENCOUNTERED AT THE MATTING'S EDGE, WITHOUT AN ADJACENT OR CONSECUTIVE MAT, AN ANCHOR TRENCH SHALL BE INSTALLED TO PREVENT UNDERMINING AND ERODING UNDER MAT.

INSTALLATION STEPS

INSTALL AND MAINTAIN THE MAT IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS.

- PREPARE SLOPE BY REMOVING LARGE ROCKS, VEGETATION, FIXING SURFACE RILLS AND COMPACTING SOIL SO THAT SURFACE IS RELATIVELY SMOOTH.
- IF INSTALLING EROSION CONTROL MAT, FERTILIZER AND SEED SHALL BE APPLIED BEFORE INSTALLING MAT ON TOP. IF INSTALLING TURF REINFORCEMENT MAT, SEED AND TOPSOIL MAY BE APPLIED ON TOP OF MAT.
- DIG INITIAL ANCHOR TRENCH. SET ASIDE NATIVE SOIL REMOVED FROM TRENCH. INITIAL ANCHOR TRENCHES ARE NOT NEEDED IF SITE ALLOWS FOR THE TRENCH INSTALLATION OF MORE THAN 3 FEET BEYOND THE TOP OF THE SLOPE.
- PLACE MAT PARALLEL WITH DIRECTION OF FLOW, AND SECURE MAT IN INITIAL ANCHOR TRENCH, STAPLING MAT AS SHOWN.
- REPLACE NATIVE SOIL PREVIOUSLY REMOVED FROM TRENCH.
- ROLL MAT PARALLEL TO THE SLOPE IN A CONTROLLED MANNER, TAKING CARE TO REMOVE EXCESS SLACK, AND TAKING CARE NOT TO STRETCH MAT. WOOD EXCELSIOR FIBER MATS MAY BE ABUTTED INSTEAD OF OVERLAPPED ON SIDE-BY-SIDE SEAMS ON SLOPES BECAUSE THE FIBERS EXPAND TOGETHER. ALL OTHER FIBER-TYPE MATS SHALL BE OVERLAPPED ON SIDE-BY-SIDE SEAMS.
- STAPLE MAT AS SHOWN OR PER MANUFACTURER'S STAPLE PATTERN GUIDE, SO THERE ARE NO GAPS BETWEEN THE MAT AND THE SOIL, AND MAT MAINTAINS DIRECT CONTACT WITH SOIL. STAPLE WHILE UNROLLING MAT DOWNSTREAM, TO MINIMIZE WALKING ON MAT. ENSURE MAT COVERS ENTIRE SITE, LEAVING NO BARE AREAS.

GENERAL NOTES

- ALL CONSTRUCTION AND MATERIAL REQUIREMENTS SHALL BE IN ACCORDANCE WITH THE 2019 ODOT STANDARD SPECIFICATIONS.
- EROSION CONTROL MATS SHALL BE CONSTRUCTED OF COCONUT FIBER, ASPEN EXCELSIOR, OR SYNTHETIC MATERIAL WITH BIODEGRADABLE OR PHOTODEGRADABLE NETTING. THEIR TEMPORARY FUNCTIONAL LONGEVITY RANGES FROM 3 MONTHS TO 36 MONTHS.
- TURF REINFORCEMENT MATS ARE PERMANENT DEVICES MADE OF UV-STABILIZED, SYNTHETIC FIBERS, FILAMENTS, NETS, WIRE MESH AND/OR OTHER ELEMENTS PROCESSED INTO A THREE-DIMENSIONAL MATRIX WHICH MAY BE SUPPLEMENTED WITH DEGRADABLE COMPONENTS. THEY ARE USUALLY INSTALLED FIRST FOLLOWED BY A LAYER OF TOPSOIL AND SEEDING. THEY ARE INSTALLED TO STABILIZE AN OTHERWISE ERODIBLE AREA.
- MAT SHALL BE MEASURED FOR PAYMENT OF VISIBLE SURFACE COVERED. OVERLAPS, OVERWIDTHS, AND TRENCHING WILL NOT BE MEASURED FOR PAYMENT. COST OF MAT (ALL TYPES OF EROSION CONTROL AND TURF REINFORCEMENT) SHALL INCLUDE ALL LABOR AND MATERIALS INCLUDING STAPLING AND FILLING OF TRENCHED ENDS.
- INSTALLATION IS NOT SUITABLE ON ROCKY SITES.
- STAPLES SHALL BE MADE OF 11 GAUGE STEEL WIRE. TYPICALLY SHAPED AS A "U", DIMENSIONS ARE 1 INCH BY 6 INCHES FOR THE EROSION CONTROL MATS AND 1 INCH BY 12 INCHES FOR THE TURF REINFORCEMENT MATS. FOR BEST RESULTS INSERT STAPLES SO THE HEADS ARE PARALLEL TO THE FLOW OF WATER. OTHER TYPES OF STAPLES MAY BE USED AS RECOMMENDED BY THE MANUFACTURER AND APPROVED BY THE ENGINEER.
- INSTALLATION AS SHOWN ON THIS STANDARD AND ON ROADWAY STANDARD ECTRM2 IS TYPICAL IN NATURE AND DOES NOT REPRESENT A SPECIFIC MANUFACTURER. CHECK WITH THE MANUFACTURER'S INSTALLATION GUIDELINES BEFORE PLACING MATS.

BASIS OF PAYMENT		
ITEM NO.	ITEM	UNIT
228	EROSION CONTROL MAT ●	SY
227	(SP) TURF REINFORCEMENT MAT ■	SY

● SPECIFY TYPE: 1, 2, 3 OR 4 ■ SPECIFY TYPE: 1, 2, 3 OR 4

APPROVED BY ROADWAY ENGINEER: *R. G. W. S.* DATE: 6/24/22

ROADWAY DESIGN DIVISION STANDARD
EROSION CONTROL / TURF REINFORCEMENT MAT
INSTALLATION DETAILS (1 OF 2 SHEETS)



2019 SPECIFICATIONS

ECTRM1	0
	R-3