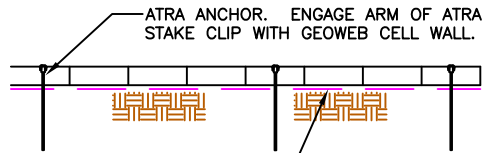
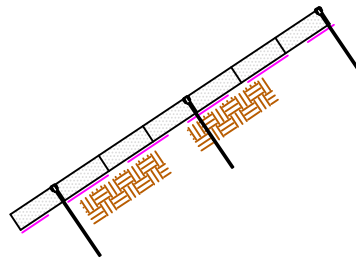


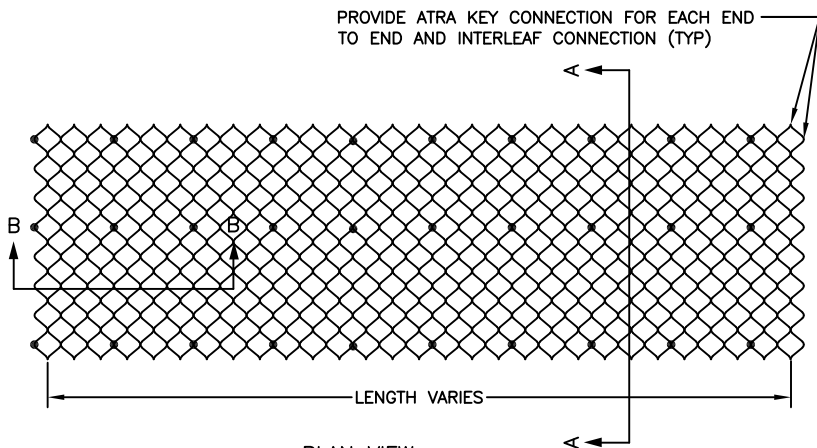
TYPICAL ATRA ANCHOR SYSTEM



SECTION A - A



SECTION B - B




PLAN VIEW

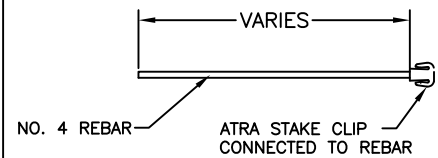
NOTES:

1. ATRA ANCHORS SHALL CONSIST OF NO. 4 REBAR WITH AN ATRA STAKE CLIP INSERTED INTO THE END OF THE REBAR. LENGTH OF THE ATRA ANCHORS SHALL BE AS SPECIFIED.
2. PRE-ASSEMBLED ATRA GFRP (POLYMER) ARE AVAILABLE FROM PRESTO GEOSYSTEMS.
3. THE GEOWEB SHALL BE FILLED WITH THE SPECIFIED MATERIAL (TOPSOIL, STONE, OR CONCRETE) AND SHALL BE SUITABLE TO WITHSTAND THE APPLICABLE HYDRAULIC CONDITIONS.
4. THE GEOWEB SECTIONS SHALL BE ANCHORED TO RESIST SLIDING DUE DRIVING AND HYDRAULIC FORCES.
5. IF VEGETATION IS DESIRED, PROVIDE AN EROSION CONTROL BLANKET OR TURF REINFORCEMENT MAT IF THERE IS A POTENTIAL FOR EROSION PRIOR TO ESTABLISHING VEGETATION.
6. THE GEOWEB PANELS SHALL BE CONNECTED WITH ATRA KEYS AT EACH INTERLEAF AND END TO END CONNECTION.
7. REFER TO THE GENERAL DETAIL DRAWINGS FOR ANCHOR DETAILS.

STAKE ANCHOR INSTALLATION

- 
1. POSITION THE ATRA ANCHOR NEXT TO THE UP-SLOPE CELL WALL.
  2. DRIVE ATRA ANCHOR INTO THE GROUND UNTIL ARM OF ATRA ANCHOR IS LOCATED ABOVE GEOWEB CELL WALL.
  3. ENGAGE ARM OF ATRA ANCHOR TO CELL WALL AND DRIVE UNTIL TIGHT.

ATRA ANCHOR DETAIL



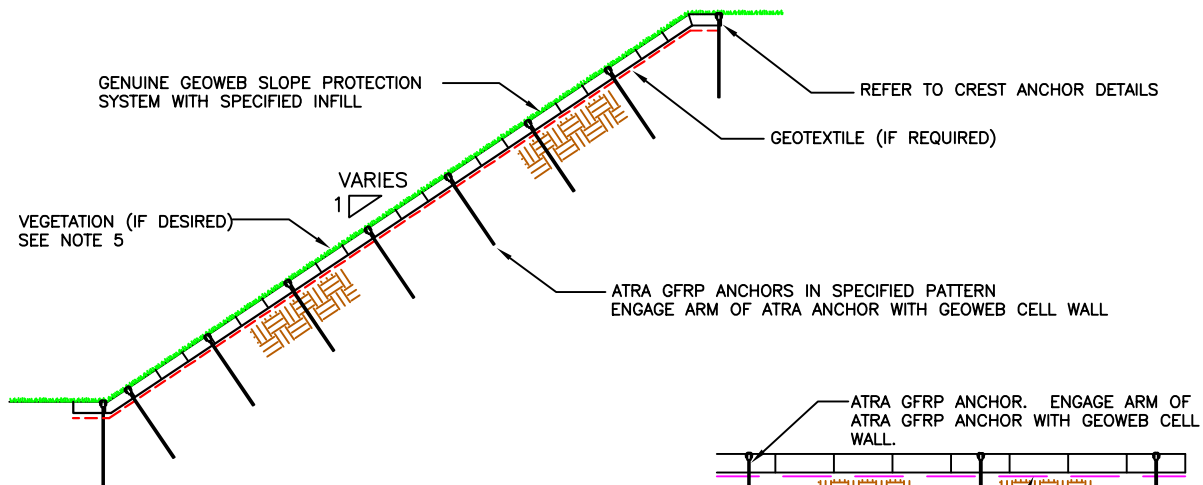
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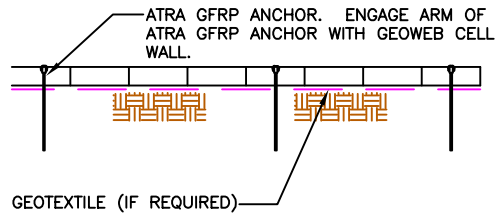
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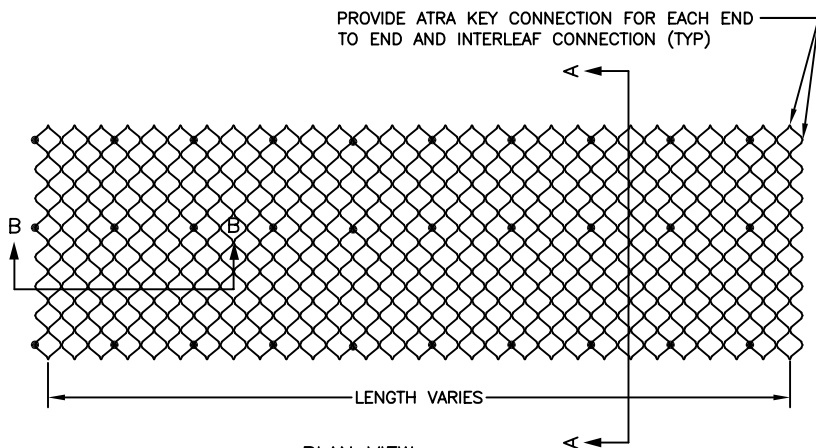
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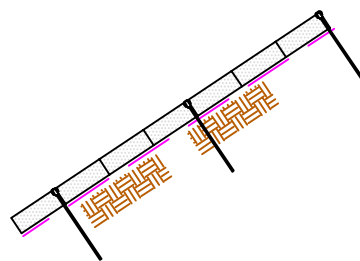
TYPICAL ATRA GFRP ANCHOR SYSTEM



SECTION A - A



PLAN VIEW



SECTION B - B

NOTES:

1. ATRA GFRP ANCHORS SHALL CONSIST OF MOLDED GFRP (POLYMER) WITH AN ATRA STAKE CLIP INSERTED INTO THE END OF THE REBAR.
2. ATRA GFRP ANCHORS ARE PRE-ASSEMBLED.
3. LENGTH OF THE ATRA GFRP ANCHORS SHALL BE AS SPECIFIED.
4. THE GEOWEB CELLS SHALL BE FILLED WITH THE SPECIFIED MATERIAL (TOPSOIL, STONE, OR CONCRETE) AND SHALL BE SUITABLE TO WITHSTAND THE APPLICABLE HYDRAULIC CONDITIONS.
5. THE GEOWEB SECTIONS SHALL BE ANCHORED TO RESIST SLIDING DUE TO DRIVING AND HYDRAULIC FORCES.
6. IF VEGETATION IS DESIRED, PROVIDE AN EROSION CONTROL BLANKET, HYDROSEED, OR A TURF REINFORCEMENT MAT IF THERE IS A POTENTIAL FOR EROSION PRIOR TO ESTABLISHING VEGETATION. THE GEOWEB PANELS SHALL BE CONNECTED WITH ATRA KEYS AT EACH INTERLEAF AND END TO END CONNECTION.
7. REFER TO THE GENERAL DETAIL DRAWINGS FOR ANCHOR DETAILS.

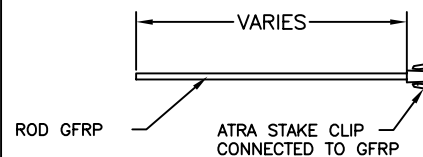
ATRA GFRP ANCHOR INSTALLATION

STEPS:

1. POSITION THE ATRA GFRP ANCHOR NEXT TO THE UP-SLOPE CELL WALL.
2. DRIVE ATRA GFRP ANCHOR INTO THE GROUND UNTIL ARM OF ATRA GFRP ANCHOR IS LOCATED ABOVE GEOWEB CELL WALL.
3. ENGAGE ARM OF ATRA GFRP ANCHOR TO CELL WALL AND DRIVE UNTIL TIGHT.



ATRA GFRP ANCHOR DETAIL



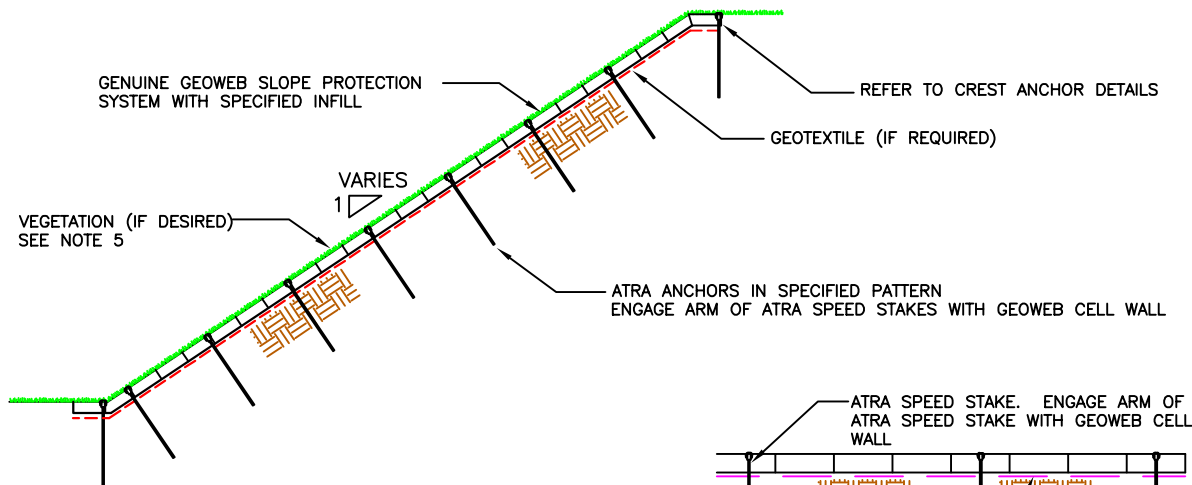
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SLOPE WITH ATRA GFRP ANCHORS

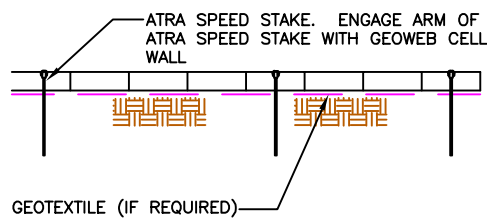
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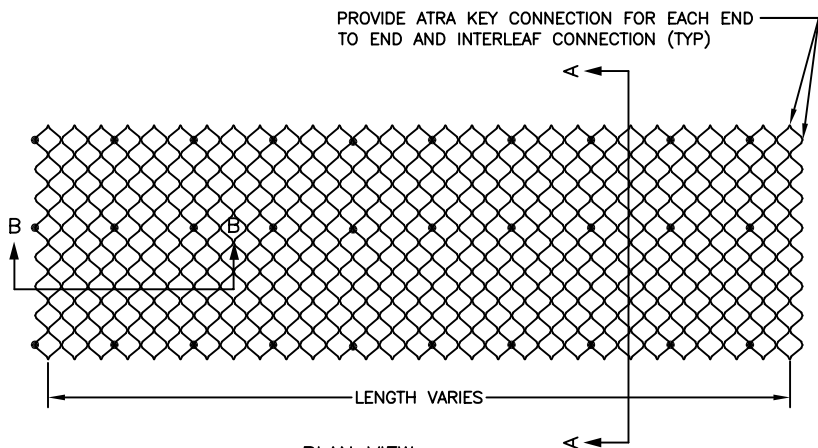
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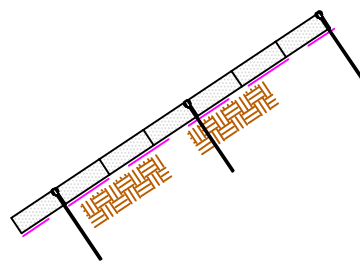
TYPICAL ATRA SPEED STAKE SYSTEM



SECTION A - A



PLAN VIEW



SECTION B - B

NOTES:

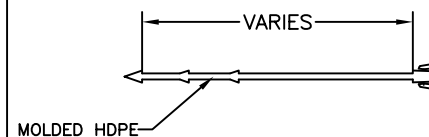
1. ATRA SPEED STAKES SHALL CONSIST OF SINGLE PICE MOLDED HDPE POLYMER WITH THREE SETS OF BARBS.
2. LENGTH OF THE ATRA SPEED STAKES SHALL BE AS SPECIFIED.
3. THE GEOWEB CELLS SHALL BE FILLED WITH THE SPECIFIED MATERIAL (TOPSOIL, STONE, OR CONCRETE) AND SHALL BE SUITABLE TO WITHSTAND THE APPLICABLE HYDRAULIC CONDITIONS.
4. THE GEOWEB SECTIONS SHALL BE ANCHORED TO RESIST SLIDING DUE TO DRIVING AND HYDRAULIC FORCES.
5. IF VEGETATION IS DESIRED, PROVIDE AN EROSION CONTROL BLANKET, HYDROSEED, OR A TURF REINFORCEMENT MAT IF THERE IS A POTENTIAL FOR EROSION PRIOR TO ESTABLISHING VEGETATION.
6. THE GEOWEB PANELS SHALL BE CONNECTED WITH ATRA KEYS AT EACH INTERLEAF AND END TO END CONNECTION.
7. REFER TO THE GENERAL DETAIL DRAWINGS FOR ANCHOR DETAILS.

ATRA SPEED STAKE INSTALLATION

STEPS:

1. POSITION THE ATRA SPEED STAKE NEXT TO THE UP-SLOPE CELL WALL.
2. DRIVE ATRA SPEED STAKE INTO THE GROUND UNTIL ARM OF ATRA SPEED STAKE IS LOCATED ABOVE GEOWEB CELL WALL.
3. ENGAGE ARM OF ATRA SPEED STAKE TO CELL WALL AND DRIVE UNTIL TIGHT.

ATRA SPEED STAKE DETAIL



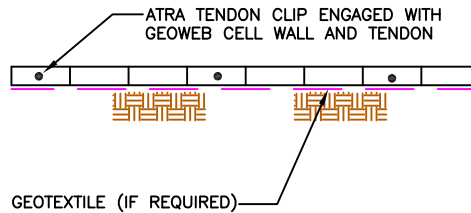
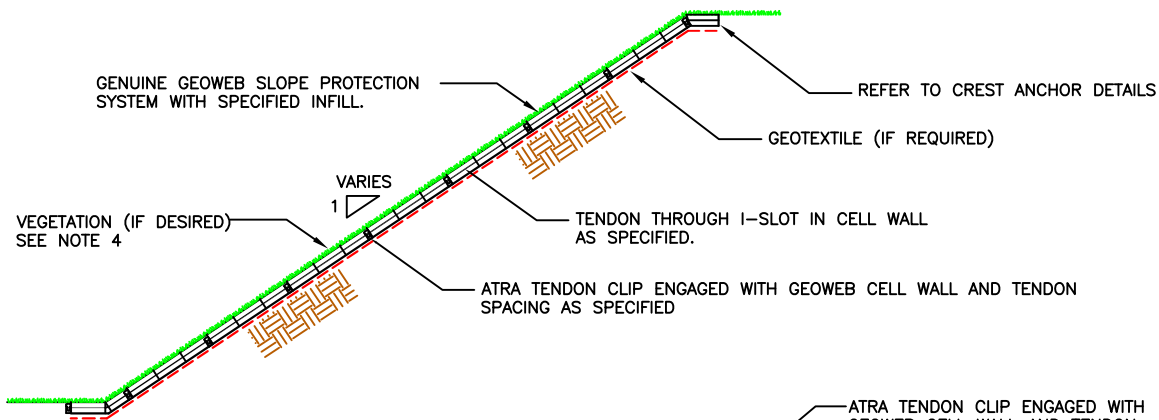
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SLOPE WITH ATRA SPEED STAKES

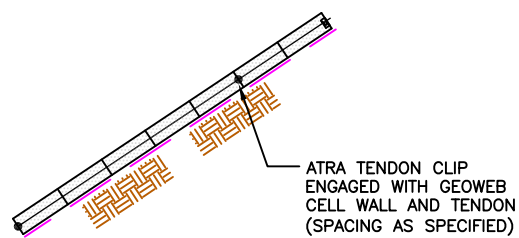
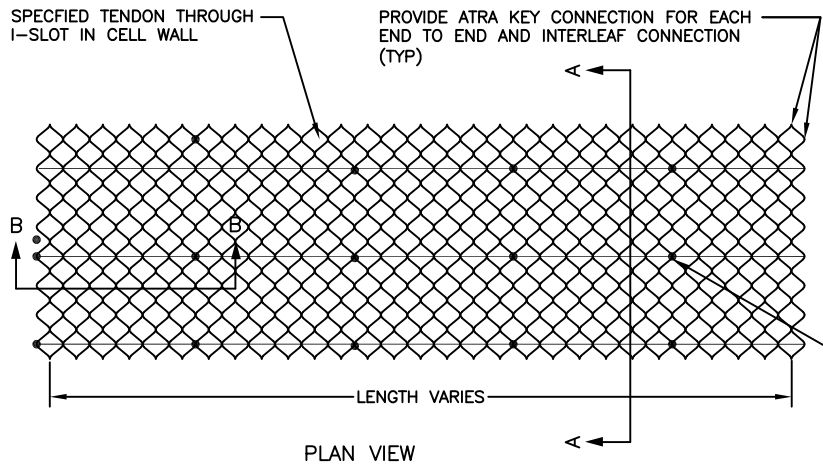
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TYPICAL TENDON ANCHOR SYSTEM



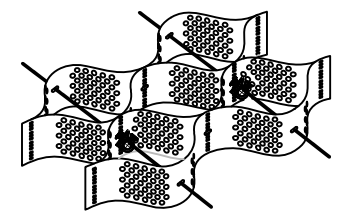
SECTION B - B

NOTES:

1. THE TYPE AND QUANTITY OF TENDONS AND ATRA TENDON CLIPS SHALL BE AS SPECIFIED.
3. THE GEOWEB CELLS SHALL BE FILLED WITH THE SPECIFIED MATERIAL (TOPSOIL, STONE, OR CONCRETE) AND SHALL BE SUITABLE TO WITHSTAND THE APPLICABLE HYDRAULIC CONDITIONS.
4. THE GEOWEB SECTIONS SHALL BE ANCHORED AT THE CREST TO RESIST SLIDING DUE TO DRIVING AND HYDRAULIC FORCES.
5. IF VEGETATION IS DESIRED, PROVIDE AN EROSION CONTROL BLANKET, HYDROSEED, OR A TURF REINFORCEMENT MAT IF THERE IS A POTENTIAL FOR EROSION PRIOR TO ESTABLISHING VEGETATION.
6. THE GEOWEB PANELS SHALL BE CONNECTED WITH ATRA KEYS AT EACH INTERLEAF AND END TO END CONNECTION.
7. REFER TO THE GENERAL DETAIL DRAWINGS FOR ANCHOR DETAILS.

TENDON DATA

TENDON TYPE	WIDTH, IN (MM)	BREAK STRENGTH, LBF (KN)
<b>POLYESTER</b>		
TP-67	0.75 (19)	1506 (6.70)
TP-93	0.75 (19)	2090 (9.30)
TP-225	1.25 (32)	5100 (22.7)
<b>WOVEN POLYPROPYLENE</b>		
TPP-55	.25 (6)	1250 (5.56)
<b>KEVLAR</b>		
TK-178	0.75 (19)	4000 (17.8)



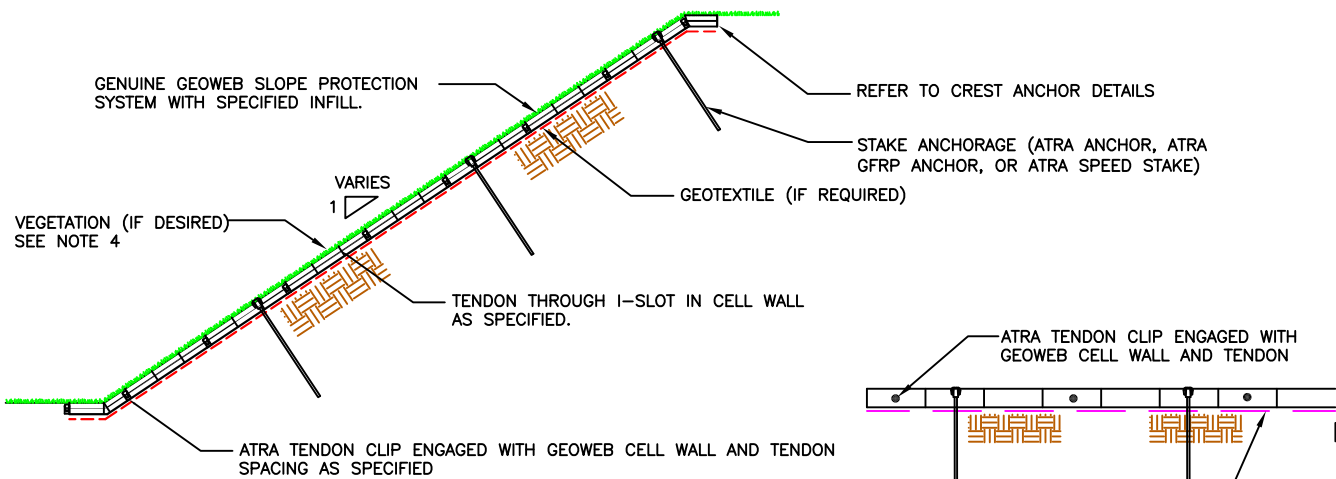
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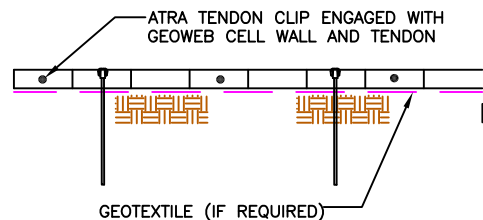
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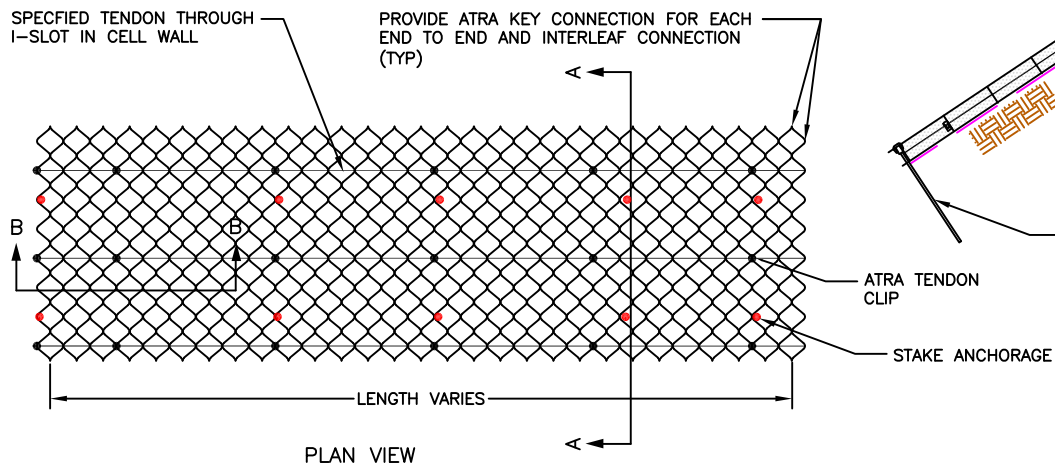
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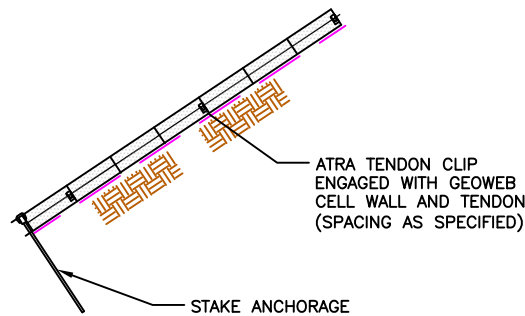
TYPICAL TENDON AND STAKE ANCHOR SYSTEM



SECTION A - A



PLAN VIEW



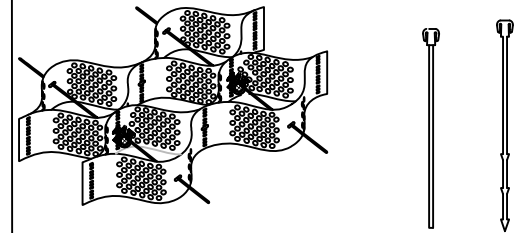
SECTION B - B

NOTES:

1. THE TYPE AND QUANTITY OF TENDONS, ATRA TENDON CLIPS AND STAKE ANCHORS SHALL BE AS SPECIFIED.
3. THE GEOWEB CELLS SHALL BE FILLED WITH THE SPECIFIED MATERIAL (TOPSOIL, STONE, OR CONCRETE) AND SHALL BE SUITABLE TO WITHSTAND THE APPLICABLE HYDRAULIC CONDITIONS.
4. THE GEOWEB SECTIONS SHALL BE ANCHORED AT THE CREST TO RESIST SLIDING DUE TO DRIVING AND HYDRAULIC FORCES.
5. IF VEGETATION IS DESIRED, PROVIDE AN EROSION CONTROL BLANKET, HYDROSEED, OR A TURF REINFORCEMENT MAT IF THERE IS A POTENTIAL FOR EROSION PRIOR TO ESTABLISHING VEGETATION.
6. THE GEOWEB PANELS SHALL BE CONNECTED WITH ATRA KEYS AT EACH INTERLEAF AND END TO END CONNECTION.
7. REFER TO THE GENERAL DETAIL DRAWINGS FOR ANCHOR DETAILS.

TENDON DATA

TENDON TYPE	WIDTH, IN (MM)	BREAK STRENGTH, LBF (KN)
POLYESTER		
TP-67	0.75 (19)	1506 (6.70)
TP-93	0.75 (19)	2090 (9.30)
TP-225	1.25 (32)	5100 (22.7)
WOVEN POLYPROPYLENE		
TPP-55	.25 (6)	1250 (5.56)
KEVLAR		
TK-178	0.75 (19)	4000 (17.8)



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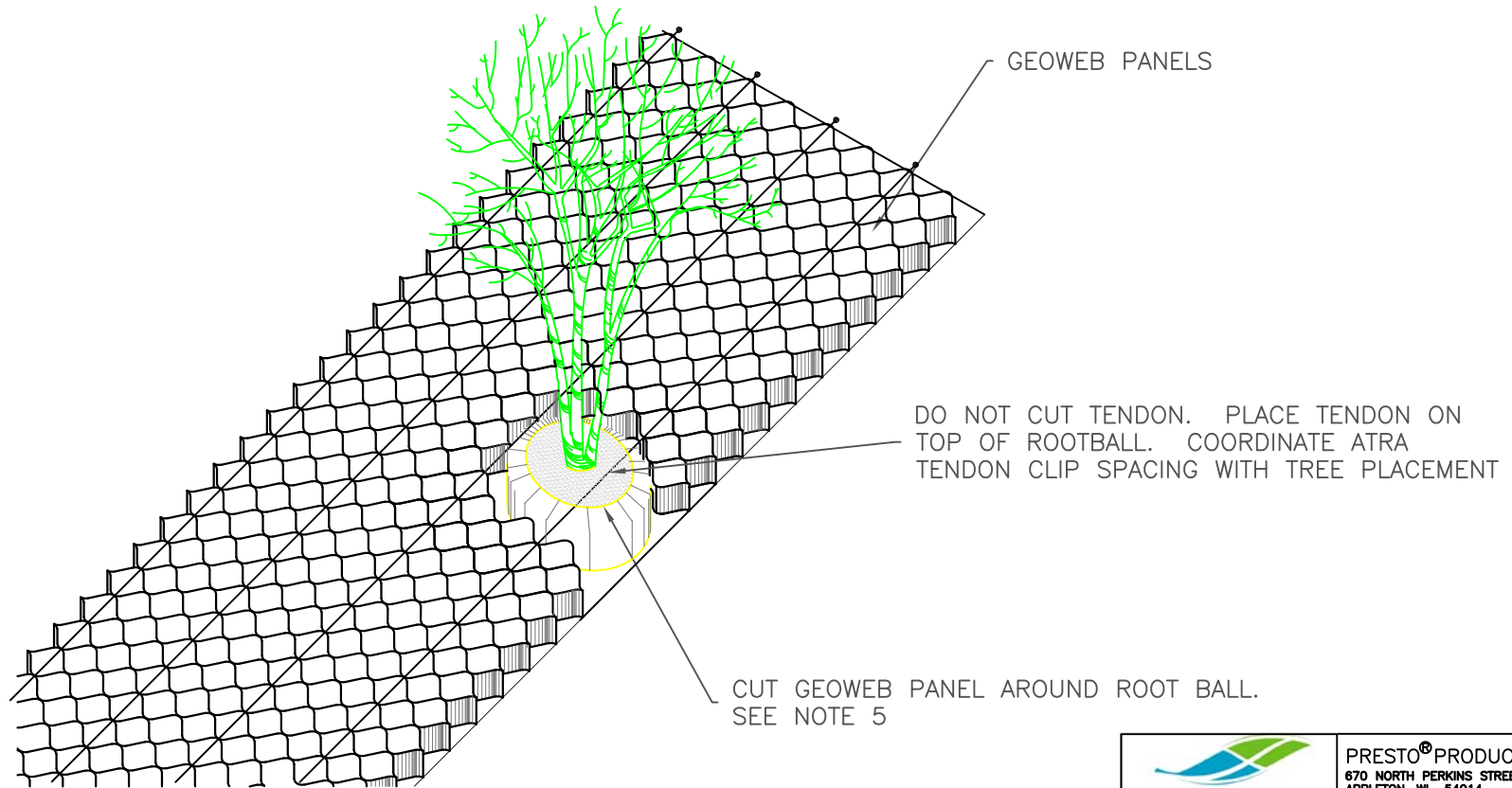
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Notes:

1. THE GEOWEB CELLS SHALL BE FILLED WITH THE SPECIFIED MATERIAL (TOPSOIL, STONE, OR CONCRETE) AND SHALL BE SUITABLE TO WITHSTAND THE APPLICABLE HYDRAULIC CONDITIONS.
2. IF FULL SURFACE VEGETATION IS DESIRED, PROVIDE AN EROSION CONTROL BLANKET, HYDROSEED, OR A TURF REINFORCEMENT MAT IF THERE IS A POTENTIAL FOR EROSION PRIOR TO ESTABLISHING VEGETATION.
3. THE GEOWEB SECTIONS SHALL BE ANCHORED AT THE CREST TO RESIST SLIDING DUE TO DRIVING AND HYDRAULIC FORCES.
4. THE GEOWEB PANELS SHALL BE CONNECTED WITH ATRA KEYS AT EACH INTERLEAF AND END TO END CONNECTION.
5. CUT THE GEOWEB PANELS TO FIT CLOSELY TO THE ROOT BALL. CONNECT THE CUT PANELS TO THE ADJACENT PANELS WITH ATRA KEYS.
6. LIMIT THE DROP OF THE INFILL TO PREVENT PANEL DISTORTION.



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		DATE NOVEMBER 2019	FILE NAME GWSL7F.DWG
SCALE NTS	SHEET 1	© 2010 PRESTO GEOSYSTEMS	