
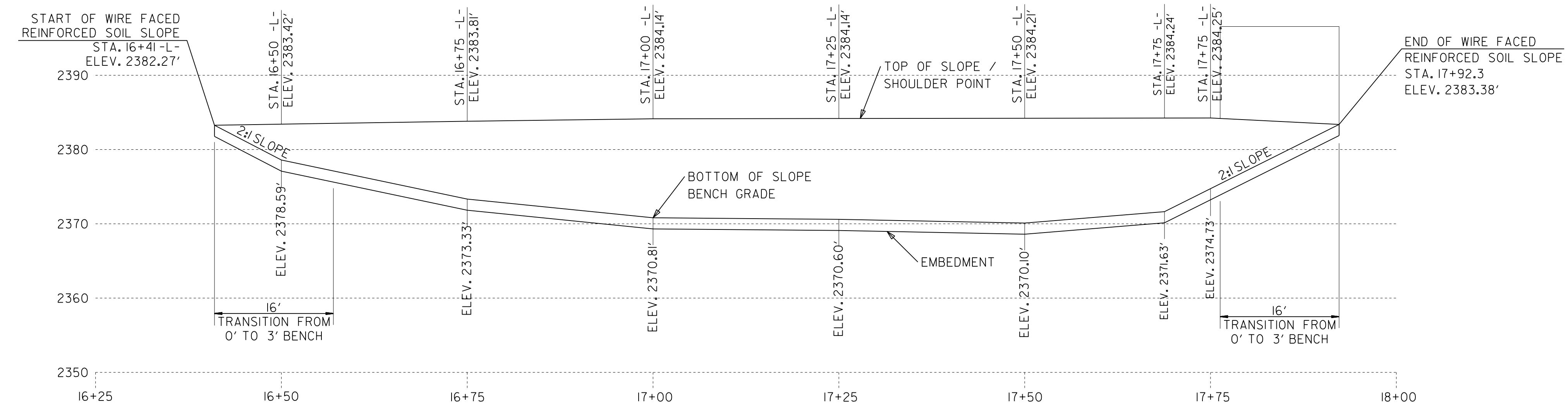
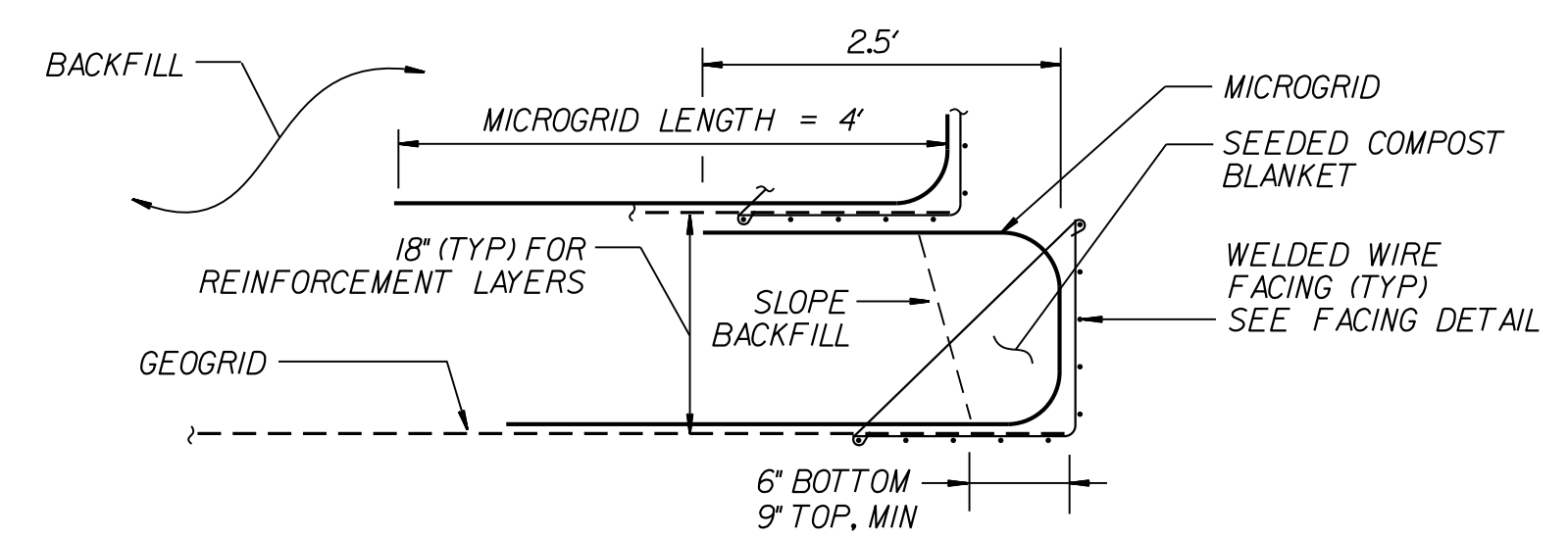


PROJECT REFERENCE NO. B-5893		SHEET NO. 2G-1	
GEOTECHNICAL ENGINEER  SEAL 028893 MICHAEL H. STEPHENS ENGINEER		ENGINEER	
DocuSigned by: <i>M. Stephens</i> 1196315837046C		06/01/2022	
SIGNATURE		DATE	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED			

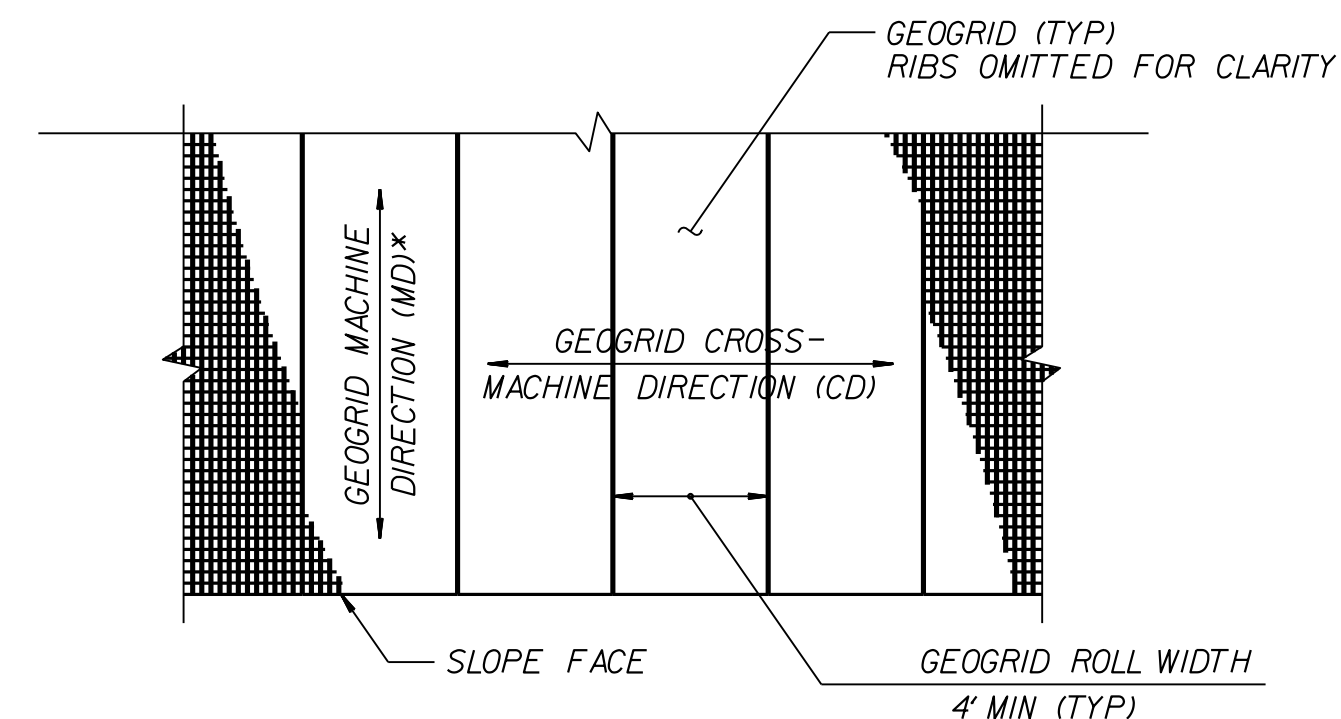
ESTIMATED WIRE FACED REINFORCED SOIL SLOPE QUANTITIES	
WIRE MESH SLOPE FROM STA. 16+41.0 TO 17+92.3 -L-	205 SY



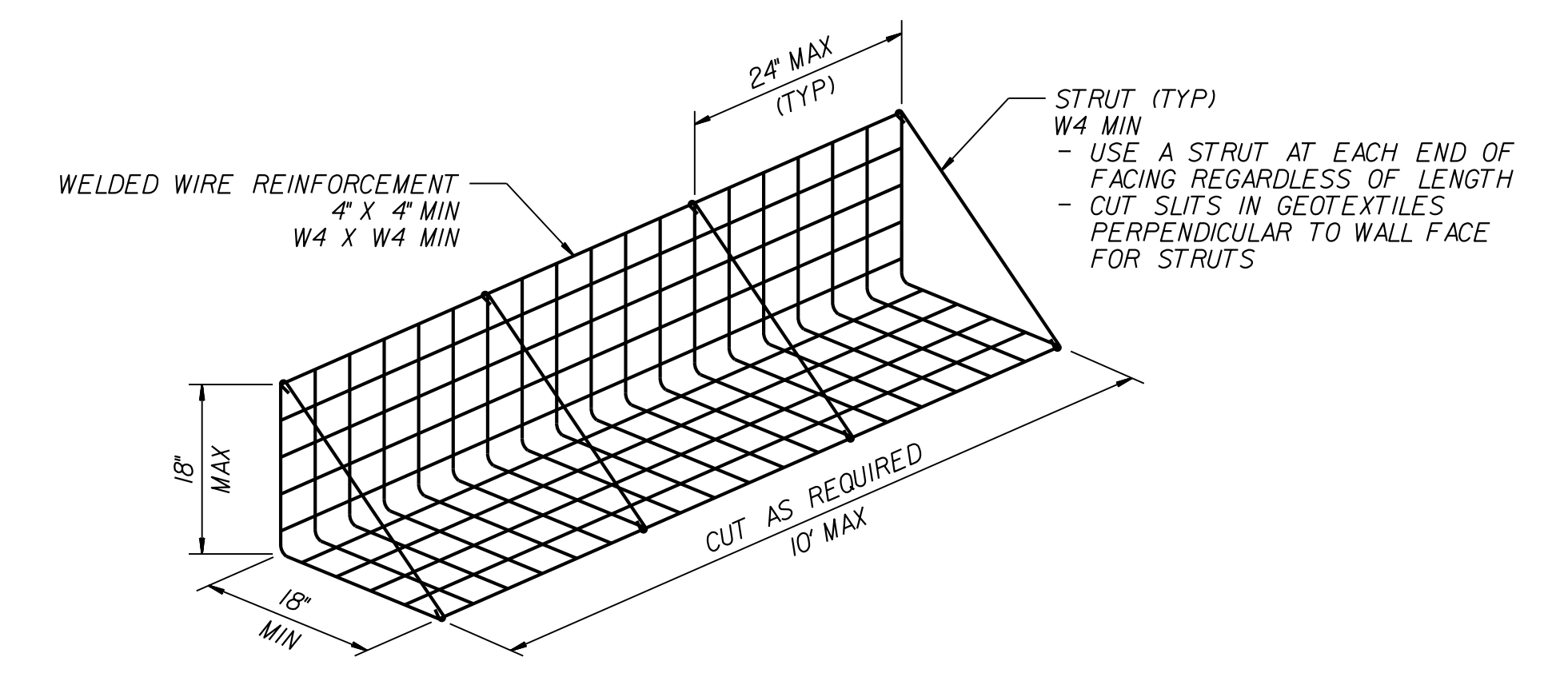
WIRE FACED REINFORCED SOIL SLOPE ENVELOPE



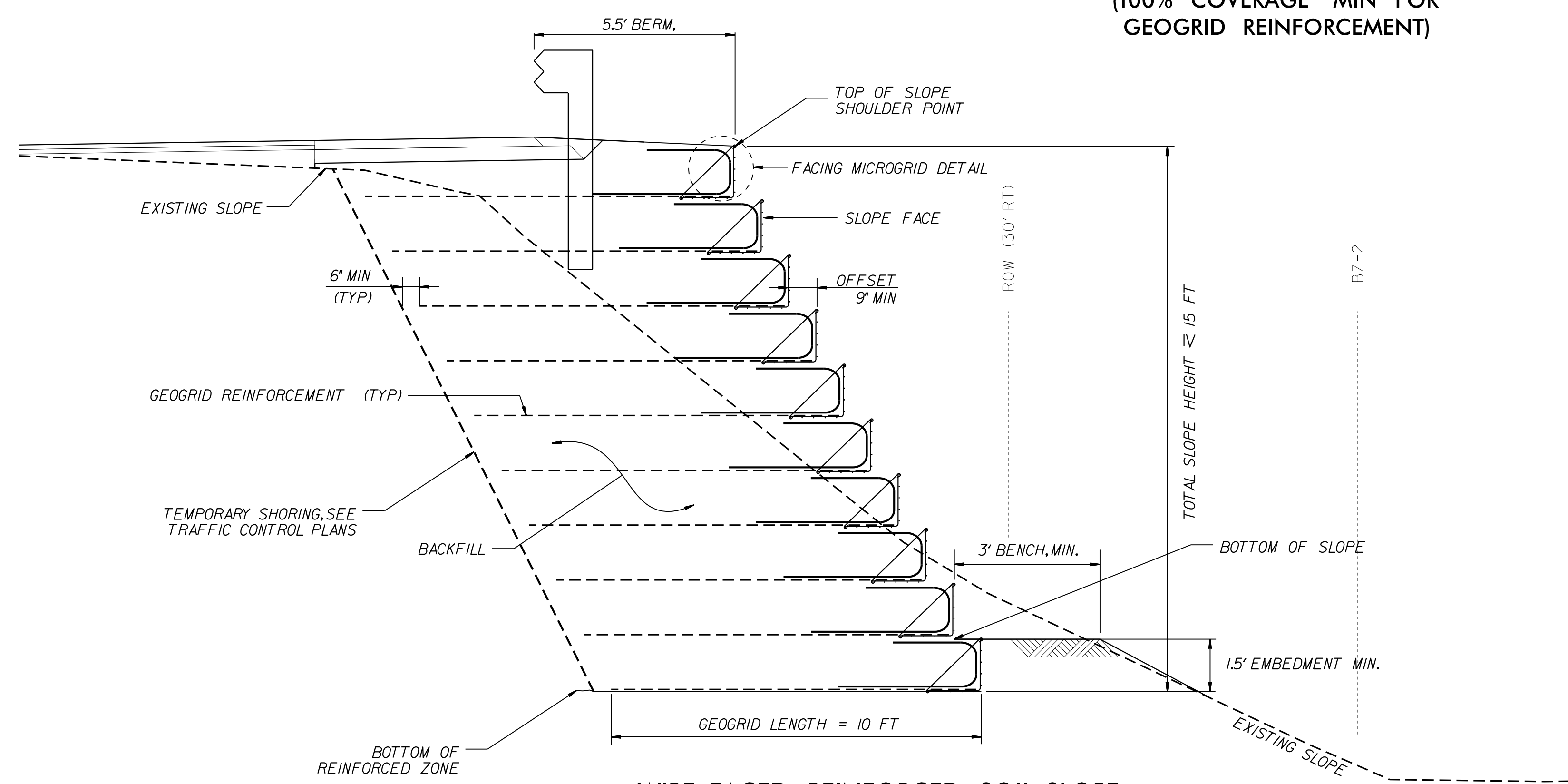
FACING MICROGRID DETAIL



**GEOGRID PLACEMENT
(100% COVERAGE MIN FOR GEOGRID REINFORCEMENT)**



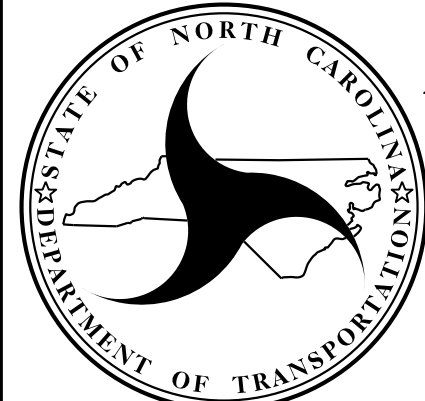
WIRE MESH FACING DETAIL



**WIRE FACED REINFORCED SOIL SLOPE
TYPICAL SECTION @ STA 17+50 -L-**

- NOTES**
- BEFORE BEGINNING WIRE FACED REINFORCED SOIL SLOPE CONSTRUCTION, SURVEY WIRE FACED REINFORCED SOIL SLOPE LOCATION AND SUBMIT A REVISED WIRE FACED REINFORCED SOIL SLOPE PROFILE VIEW (ENVELOPE) FOR REVIEW. DO NOT START WIRE FACED REINFORCED SOIL SLOPE CONSTRUCTION UNTIL THE REVISED WIRE FACED REINFORCED SOIL SLOPE ENVELOPE IS ACCEPTED.
 - USE MICROGRID WITH SEEDED COMPOST BLANKET FOR FACE VEGETATION.
 - FOR COMPOST BLANKET, SEE PROVISION.
 - FOR WIRE FACED REINFORCED SOIL SLOPE, SEE PROVISION.
 - DESIGN IS BASED ON THE FOLLOWING IN-SITU ASSUMED SOIL PARAMETERS:
 UNIT WEIGHT, $\gamma = 120$ LB/CF
 FRICTION ANGLE, $\phi = 30$ DEGREES
 COHESION, $c = 0$ LB/SF
 - UNDERCUT AND REPLACE VERY LOOSE OR SOFT SOIL OR MUCK LOCATED BELOW SLOPE.
 - INSTALL AN APPROVED BIAXIAL GEOGRID WITH A MINIMUM LONG-TERM DESIGN STRENGTH OF 1700 LB/FT FOR A 75-YEAR DESIGN LIFE.
 - DO NOT PLACE ANY GEOGRIDS UNTIL EXCAVATION DIMENSIONS AND IN-SITU MATERIAL ARE APPROVED.
 - INSTALL GEOGRIDS WITH 100% COVERAGE.
 - FUTURE OBSTRUCTIONS SUCH AS GUARDRAIL POSTS WILL INTERFERE WITH REINFORCEMENT FOR WIRE FACED REINFORCED SOIL SLOPE. GUARDRAIL LOCATIONS SHOULD BE LOCATED IN THE FIELD DURING THE CONSTRUCTION OF THE UPPER TWO LAYERS. CUT A HOLE, NO LARGER THAN 16" IN DIAMETER AT ANTICIPATED POST LOCATIONS.
 - TEMPORARY SHORING IS REQUIRED FOR THE CONSTRUCTION OF THE WIRE FACED REINFORCED SOIL SLOPE. THE BEGIN/END OF THE TEMPORARY SHORING WILL BE THE SAME AS THE WIRE FACED REINFORCED SOIL SLOPE AND LOCATED AT AN OFFSET OF 11.5 FT (RIGHT). FOR TEMPORARY SHORING LOCATION AND INFORMATION, SEE TRAFFIC CONTROL PLANS.

PREPARED BY: MHS	DATE: 06/01/2022
REVIEWED BY: SCC	DATE: 06/01/2022



**NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS**

**GEOTECHNICAL
ENGINEERING UNIT**

WIRE FACED REINFORCED SOIL SLOPE STA. 16+41.0 TO 17+92.3 -L-					
REVISIONS					
NO.	BY	DATE	NO.	BY	DATE
1			3		
2			4		