MATERIALS

GEOGRID REINFORCING SHALL BE TENSAR UNIAXIAL GEOGRID AND BIAXIAL GEOGRIDS MANUFACTURED BY THE TENSAR CORPORATION, MORROW, GEORGIA.

BOOKIN BARS SHALL BE 1/6"x1/4" HOPE BARS MANUFACTURED BY THE TENSAR CORPORATION. MORROW. GEORGIA.

CENTENTILE ELLTED EXPRIC TORON SHALL BE MANUFACTURED BY EVERGREEN TECHNOLOGIES. INC. EVERGREEN. ALABAMA OR EQUIVALENT AS APPROVED BY THE ENGINEER.

1.4 WALL FACING

I.A.J. FACING SHALL BE PRE-FABRICATED BLACK STEEL WELDED WIRE FORMS (WWF) 4" x 4" - W4.0 x W4.0 AND GEOTEXTILE FABRIC, WIRE FORM GEOMETRY SHALL BE AS DETAILED IN THE CONSTRUCTION DRAWINGS.

20 TECHNICAL DECNIDEMENTS

- 2.1 FILL WATERIALS SHALL BE PLACED FROM THE BACK OF THE WELDED WIRE FACING FORMS TOWARDS THE ENDS OF THE GEOGRID TO ENSURE FURTHER TENSIONING.
- WELDED WIRE FACING SHALL BE MONITORED DURING FILL PLACEMENT AND COMPACTION, COMPACTION EQUIPMENT AND OPERATION PROCEDURES WAY HAVE TO BE MODIFIED TO PREVENT EXCESSIVE DEFORMATION OF THE FLEXIBLE WELDED WIRE FACING.
- TIE WIRES OR HOG RINGS WAY BE REQUIRED IF WWF MOVES DURING BACKFILL OPERATIONS.

TENSAR GEOGRID PLACEMENT

- 3J TENSAR GEOGRID SHALL BE PLACED AT THE SAME LOCATIONS AND ELEVATIONS SHOWN ON THE SHOP DRAWINGS
- TENSAR GEOGRID REINFORCEMENT SHALL BE CONTINUOUS THROUGHOUT THEIR EMBEDMENT LENGTH(S). THE BODKIN CONNECTION SHALL NOT BE UTILIZED UNLESS PRE-APPROVED BY THE ENGINEER PRIOR TO CONSTRUCTION.
- 3.2.1 IF PRE-APPROVED. TENSAR UNIAXIAL GEOGRIDS MAY BE SPLICED UTILIZING THE BODKIN CONNECTION OFTAIL. NO MORE THAN ONE SPLICE SHALL BE ALLOWED IN ANY ONE LENGTH OF REINFORCING AND NO SPLICES SHALL BE ALLOWED FOR GEOGRIDS LESS THAN 6 feet IN LENGTH (EACH), THE BODKIN CONNECTION SHALL NOT BE PLACED LESS THAN 6 feet BELOW PLANNED FINISHED GRADE. NOR HORIZONTALLY NOR VERTICALLY ADJACENT TO ANOTHER BODKIN CONNECTION.

THIS DESIGN IS BASED UPON SPECIFIC PROPERTIES OF TENSAR PRODUCTS IGEOGRADS, DRAWAGE COMPOSITES AND EROSION MEDIAL, WHICH ARE PROPRIETARY TO THE TENSAR CORPORATION 1210 CITIZENS PARKWAY. MORROW GA. 30260. ANY SUBSTITUTION OF THE SPECIFIED PRODUCTS WILL INVALIDATE THIS DESIGN.

THIS DRAWING. DESIGN NOTES AND ASSOCIATED CALCULATIONS HAVE BEEN PREPARED BY TENSAR EARTH TECHNOLOGIES. INC. FOR PRELIMINARY DESIGN PURPOSES AND SHALL NOT BE USED FOR FINAL DESIGN OR CONSTRUCTION.

3.3 PRIOR TO PLACING FILL. THE GEOGRID MATERIALS SHALL BE PLACED TO LAY FLAT AND PULLED TAUT TO REMOVE ANY SLACK IN THE GEOGRIDS. 3.4 TRACKED CONSTRUCTION FOURMENT SHALL NOT BE

OPERATED DIRECTLY ON THE GEOGRID, A MINIMUM FILL THICKNESS OF 6 Inches IS REQUIRED FOR OPERATION OF TRACKED VEHICLES OVER THE GEOGRID. TURNING OF TRACKED VEHICLES SHOULD BE KEPT TO A MINIMUM TO PREVENT TRACKS FROM DISPLACING THE FILL AND/OR THE GEOGRID.

TS BURBER-TIRED VEHICLES MAY PASS OVER THE GEOGRID REINFORCEMENT AT SLOW SPEEDS. LESS THAN 10 MPH. SUDDEN REAKING AND SHARE TURNING SHALL BE AVOIDED

3.6 TENSAR UNIAYIAI GEOGRIDS SHALL RE ROLLED OUT WITH THE LONG AXIS OF THE APERTURES IMACHINE DIRECTION) PERPENDICULAR TO THE WELDED WIRE FORM FACE, TENSAR BIAXIAL GEOGRIDS SHALL BE ROLLED OUT WITH THE MACHINE DIRECTION BAR PARALLEL TO THE WELDED WIRE FORM FACE.

3.6.1 UNIAXIAL (UX) GEOGRIDS SHALL BE CUT NEXT TO THE CROSS MACHINE DIRECTION BAR, UX GEOGRIDS SHALL BE UNROLLED PERPENDICULAR TO THE WALL FACE.

3.6.2 BIAXIAL GEOGRIDS SHALL BE CUT NEXT TO THE MACHINE DIRECTION BAR, BX GEOGRIDS SHALL BE UNROLLED PARALEL TO THE WALL FACE

GEOGRIDS SHALL BE CUT AND PLACED SO THAT A TRANSVERSE BAR IS EXTENDED TO THE BACK FACE OF THE WELDED WIRE FORM

A MINIMUM OF 3 Inches OF FILL MATERIAL SHALL BE REQUIRED BETWEEN LAYERS OF BIAXIAL UNIAXIAL AND FILTER FARRIC, UNLESS OTHERWISE SHOWN

CHANGES TO GEOGRID LAYOUT OR PLACEMENT

NO CHANGES TO THE TENSAR GEOGRID LAYOUT. INCLUDING. BUT NOT LIMITED TO, LENGTH, GEOGRID TYPE, OR ELEVATION, SHALL BE WADE WITHOUT THE EXPRESSED PRIOR WRITTEN CONSENT OF TENSAR FARTH TECHNOLOGIES, INC.

DRAINAGE

5J THE TENSAR REINFORCED WALL HAS BEEN DESIGNED ON THE ASSUMPTION THAT THE REINFORCED BACKFILL WATERIAL SHALL BE FREE OF SUBSURFACE DRAINAGE OF WATER (SEEPAGE).

DESIGN PARAMETERS

SOU PARAMETERS

SEE WALL CONTROL DRAWINGS FOR SOIL CHARACTERISTICS OF FOUNDATION MATERIAL TO BE USED IN THE DESIGN OF THE WALL SYSTEM. THE CONTRACTOR SHALL PROVIDE SOIL DESIGN PARAMETERS FOR BACKFILL MATERIAL BASED ON THE ACTUAL SOIL CHARACTERISTICS UTILIZED AT THE SITE. THE VALUES OF FRICTION ANGLE. APPARENT COHESION AND UNIT WEIGHT SHALL RE PROVIDED IN THE SHOP DRAWINGS.

611 DESIGN

THE DESIGN CONTAINED ON THESE DRAWINGS IS BASED ON INFORMATION PROVIDED BY OTHERS ON THE BASIS OF THIS INFORMATION. THE TENSAR CORPORATION IS RESPONSIBLE FOR INTERNAL STABILITY OF THE STRUCTURE ONLY, EXTERNAL STABILITY DESIGN INCLUDING FOUNDATION AND SLOPE STABILITY IS THE RESPONSIBILITY OF OTHERS.

FACTORS OF SAFETY

- INTERNAL STABILITY: MAXIMUM GEOGRID DESIGN STRENGTH = 0.29 ULT MINIMUM FACTOR OF SAFETY FOR = 15 GEOGRID PULLOUT MINIMUM FACTOR OF SAFETY FOR SLIDING = 15 AT LOWEST GEOGRID GEOGRID-SOIL INTERACTION COFFEIGIENT = O.8 PERCENT COVERAGE OF GEOGRIO = VARIES
- 6.2.2 FXTERNAL STABILITY MINIMUM FACTOR OF SAFETY FOR SLIDING = 1.5 MINIMUM FACTOR FOR SAFETY FOR OVERTURNING = 2.0 EXTERNAL STABILITY IS THE RESPONSIBILITY OF OTHERS TENSAR EARTH TECHNOLOGIES. INC. ACCEPTS NO LIABILITY OR RESPONSIBILITY FOR GLOBAL STABILITY. (SEE SECTION 7.5)
- 6.2.3 GLOBAL STABILITY: GLOBAL STABILITY IS THE RESPONSIBILITY OF OTHERS. TENSAR EARTH TECHNOLOGIES. INC. ACCEPTS NO LIABILITY OR RESPONSIBILITY FOR GLOBAL STABILITY, (SEE SECTION 7.5)

SPECIAL PROVISIONS

7.J WALL ELEVATION VIEWS AND LOCATIONS AND GEOMETRY OF EXISTING STRUCTURES MUST BE VERIFIED BY THE CONTRACTOR BEFORE COMMENCEMENT OF SHOP DRAWINGS.

TENSAR EARTH TECHNOLOGIES, INC. ASSUMES NO LIABILITY FOR INTERPRETATION OR VERIFICATION OF SUBSURFACE CONDITIONS. SUITABILITY OF SOIL DESIGN PARAMETERS AND INTERPRETATION OF SUBSURFACE GROUNDWATER CONDITIONS.

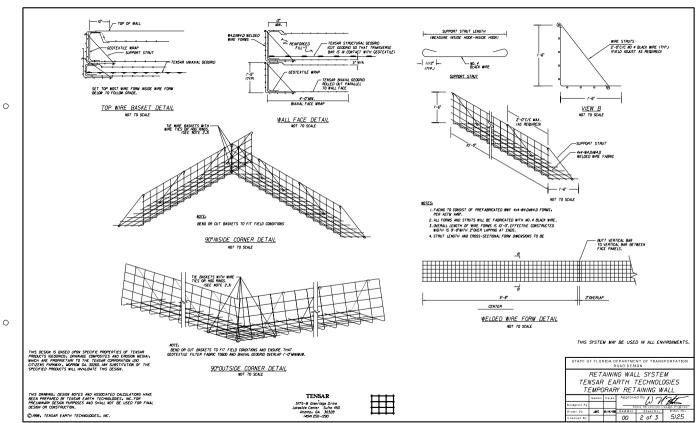
- 7.3 ANY REVISIONS TO DESIGN PARAMETERS STATED ON CONTROL DRAWINGS OR STRUCTURE GEOMETRY SHALL REQUIRE DESIGN MODIFICATIONS PRIOR TO PROCEEDING WITH CONSTRUCTION.
- THIS DESIGN IS ONLY VALID FOR THE INTERNAL STABILITY OF THE PROPOSED TENSAR REINFORCED RETAINING WALLS AS SHOWN HEREIN
- 7.5 BEARING CAPACITY TOTAL SETTLEMENT. DIFFERENTIAL SETTLEMENT. AND THEIR EFFECTS ON THE TENSAR REINFORCED RETAINING WALL SYSTEM SHALL BE THE RESPONSIBILITY OF OTHERS

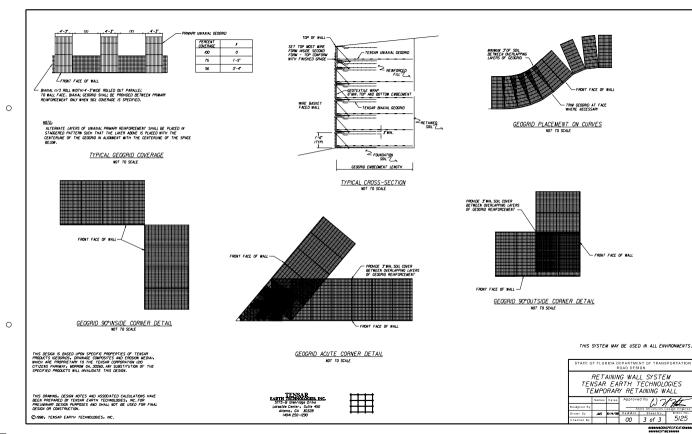
THIS SYSTEM WAY BE USED IN ALL ENVIRONMENTS.

ROAD DESIGN RETAINING WALL SYSTEM TENSAR FARTH TECHNOLOGIES TEMPORARY RETAINING WALL Names Dates Approved By Designed By JAS 8/M/98 Resiston Sheet No. 5125 nn l Lof 3

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