FOSTER Geotechnical claims a strict proprietary right in all drawings, specification and calculations ("information") set forth on this sheet. The use of such information in whole or in part, or any reproduction thereof, is restricted to the site for which it was prepared and to the material and/or service provided by FOSTER Georecholcal Any other use is strictly prohibited, and FOSTER GEOTECHNICAL DISCLAMS ANY LIABILITY THEREFOR

GENERAL NOTES

DESIGN CRITERIA

I DESIGN IS BASED ON THE ASSUMPTION THAT THE MATERIAL WITHIN THE REINFORCED EARTH VOLUME. METHODS OF CONSTRUCTION AND QUALITY OF PREFABRICATED MATERIALS SHALL CONFORM TO THE CONTRACTING AGENCY'S TECHNICAL SPECIFICATIONS FOR RETAINED FARTH WALLS.

2 FACTORS OF SAFETY

BEARING 2.5

OVERTURNING 2.0 INTERNAL PULLOUT 1.5 (ALLOW DEFORMATION 3/47) OVERALL STABILITY 1.5 SLIDING 1.5

SOIL REINFORCEMENT WESH OAT FY AT END OF DESIGN LIFE

3. SOIL CHARACTERISTICS ASSUMED FOR DESIGN-

SOIL PARAMETERS

SEE WALL CONTROL DRAWINGS FOR SQU CHARACTERISTICS OF FOUNDATION WATERIAL TO BE USED IN THE DESIGN OF THE WALL SYSTEM. THE CONTRACTOR SHALL PROVIDE SOIL DESIGN PARAMETERS FOR BACKELLI MATERIAL BASED ON THE ACTUAL SOU CHARACTERISTICS UTILIZED AT THE SITE, THE VALUES OF Q. C AND K SHALL BE PROVIDED IN THE SHOP DRAWINGS.

- 4. THE MAXIMUM APPLIED BEARING PRESSURE AT THE FOUNDATION LEVEL IS AS SHOWN ON THE WALL ELEVATIONS FOR EACH DESIGN CASE. IT IS THE RESPONSIBILITY OF OTHERS TO DETERMINE THAT THIS APPLIED BEARING PRESSURE IS ALLOWABLE FOR THAT LOCATION.
- 5. ANY UNSUITABLE FOUNDATION WATERIAL BELOW THE REINFORCED EARTH VOLUME. AS DETERMINED BY THE ENGINEER. SHALL BE EXCAVATED AND REPLACED WITH SUITABLE MATERIAL OR OTHERWISE STABILIZED AS DIRECTED BY THE ENGINEER.

REINFORCING ELEMENTS

6. REINFORCING WESH ELEMENTS SHALL BE SHOP FABRICATED FROM COLD DRAWN STEEL ROD CONFORMING TO THE MINIMUM REQUIREMENTS OF ASTN A-82 AND SHALL BE WELDED AT THE JUNCTIONS BETWEEN LONGITUDINAL AND TRANSVERSE WIRES IN ACCORDANCE WITH ASTM A-185. GALVANIZATION SHALL BE APPLIED AFTER WESH FABRICATION AND SHALL CONFORM TO THE MINIMUM REQUIREMENTS OF ASTM A-123.

LOOP ENBEDS SHALL BE FABRICATED FROM COLD DRAWN STEEL ROD COMFORMING TO ASTM A-510 OR ASTM A-82, LOOP EMBEDS SHALL BE WELDED IN ACCORDANCE WITH ASTN A-185, LOOP ENBEDS SHALL BE GALVANIZED IN ACCORDANCE WITH ASTM B-633.

A Division of L. B. Foster Company

6455 OLD PEACHTREE ROAD MORCROSS, CA 3007/ Telephone (770) 446 - 3000 Fax:(770) 242-7493

DESIGNA

7. THE DESIGN CONTAINED ON THESE DRAWINGS IS BASED ON INFORMATION BROWNER BY STHERE OF THE BASIS OF THIS HESBRATION. THE WALL COMPANY IS RESPONSIBLE FOR INTERNAL STABILITY OF THE STRUCTURE ONLY EXTERNAL STABILITY DESIGN INCLUDING EQUIDATION AND SLOPE STABILITY IS THE RESPONSIBILITY OF OTHERS.

WALL CONCERNICTION

- BA. (SQUARE PANELS) RETAINED EARTH WALLS IN CURVES WILL FORM A SERIES OF SHORT CHORDS OF 5.0 FACH TO MATCH DESIRED WALL ALIGNMENT.
- BO THEY DANFIELDETAINED EADTH WALLS IN CHOICS WILL EDOM A SERVES DE SHORT CHORDS OF 4.35 FACH TO MATCH DESIRED WALL ALIGNMENT.
- 9. FOR LOCATION AND ALIGNMENT OF RETAINED EARTH WALLS. SEE RETAINING WALL CONTROL PLANS.
- IO. IF MANHOLES AND DROP INLETS ARE PRESENT. THEY SHALL BE LOCATED AS SHOWN ON WALL FLEVATIONS
- N. IF PILES ARE LOCATED WITHIN REINFORCED SOIL VOLUME. THEY SHALL BE DRIVEN PRIOR TO CONSTRUCTION OF THE REINFORCED EARTH WALL DILESS A METHOD TO PROTECT THE STRUCTURE WHICH IS ACCEPTABLE TO THE ENGINEER AND POSTER GEOTECHICAL COMPANY AND IS PROPOSED AND APPROVED IN WRITING
- 12. BACKFILL MATERIAL SHALL BE COMPACTED IN ACCORDANCE WITH SECTION 548 TO A LEVEL OF 2'(+/-) ABOVE THE TIE MESH EMBEDDED IN THE PANELS. INSTALL DE PERMITTED ONLY ATTER PLACEMENT AND COMPACTION OF THE BACKFILL MITERIAL. HAS REACHED THE REQUIRED LEVEL.

13. WALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH SECTION 548.

- IA IT IS THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE THE LOCATION OF ANY GUARDRAU POSTS REHIND RETAINED FARTH PANELS PRICE TO PLACEMENT OF THE TOP LAYER OF REINFORCING MESH. INDIVIDUAL REINFORCING MESH MAY BE SKEWED TO MOUD THE POST LOCATIONS IF AUTHORIZED BY THE ENGINEER IND CUTTING OF SOIL REINFORCEMENT GRIDS ALLOWED UNLESS SHOWN ON SHOP DRAWINGS AND APPROVED. BY THE ENGINEER). ANY DAMAGE DONE TO THE REINFORCING MESH DUE TO THE INSTALLATION OF THE GUARDRAIL SHALL BE REPAIRED BY THE CONTRACTOR AT THE CONTRACTOR'S FYPENSE.
- 15. IF EXISTING OR FUTURE STRUCTURES. PIPES. FOUNDATIONS OR GUARDRAIL POSTS WHICH ARE WITHIN REINFORCED SOIL VOLUME INTERFERE WITH THE NORMAL PLACEMENT OF REINFORCING MESH AND SPECIFIC DIRECTION HAS NOT BEEN PROVIDED ON THE PLANS, THE CONTRACTOR SHALL NOTIFY THE ENGINEER TO DETERMINE WHAT COURSE OF ACTION SHOULD BE TAKEN.
- 16. TOP PANELS BENEATH CAST-IN-PLACE COPING SHALL HAVE " BARS PROTRUDING FROM THEIR TOP FOGE
- IT. FOR OTHER INFORMATION PERTAINING TO WALL CONSTRUCTION PLEASE REFER TO FOSTER GEOTECHNICAL CONSTRUCTION MANUAL.
- IB. THE CONTRACTOR IS RESPONSIBLE FOR GRADUALLY DEFLECTING UPPER REINFORCING MESH DOWNWARD TO AVOID CONFLICTS WITH PAYING AND SUBGRADE PREPARATION, THE CONTRACTOR'S ATTENTION IS DIRECTED ESPECIALLY TO SITUATIONS WHERE ROADWAY SUPER ELEVATION AND/OR SOIL WIXING ARE ANTICIPATED.

MATERIALS NOTES

19. NOMINAL MESH LENGTHS

THE REINFORCING WESH LENGTH SHOWN ON THE PLANS, WEASURED FROM BACK FACE OF PANEL ARE THE NOMINAL LENGTHS REQUIRED BY CALCULATION, THE ACTUAL FABRICATED WESH LENGTHS ARE OFTEN ES CALLULATION. THE NATIONAL PROMOTICE MESTI LEGISTIC AND LONGER (UP TO 67 DUE TO MANUFACTURING TOLERANCES. THE REQUIRED HORIZONTAL UNIT OF GRANULAR BACKFILL IS EQUAL TO THE ROUNNAL MESH LENGTH. ADDITIONAL GRANULAR BACKFILL BEYOND THE NOMINAL MESH LENGTH IS NOT REQUIRED BY CALCULATION.

20. REINFORCED BACKEILL QUANTITY

THE REINFORCED RACKELL QUANTITY INDICATED BY FOSTER GEOTECHNICAL THE HOMOTOLE BEAUTY AND THE MOMINAL MESH LENGTHS
SHOWN ON THE PLANS BY THEIR TRIBUTARY WALL SURFACE AREA AND
CONVERTING THE RESULT TO A NEATER CUSE METER QUANTITY. CONVEYTING THE RESULT OF MEATINE CORD WELF MODIANTION THIS INFORMATION IS FURNISHED FOR THE CONTRACTOR'S INFORMATION ONLY AND IS NOT INTERIDED TO PRESENT THE ACTUAL QUANTITIES REQUIRED TO COMPLETE THE WORK, THE CONTRACTOR MUST CALCULATE HIS OWN EXCAVATION AND BACKFILL QUANTITIES BASED UPON THE SPECIFIC CONDITIONS OF THE PROJECT.

21. PANEL FINISH

THE PRECAST PANELS FOR THIS PROJECT SHALL BE A PLAIN STEEL FORM FINISH UNLESS OTHERWISE SPECIFIED ON THE RETAINED EARTH CONTROL

22. NOTE TO CONTRACTORS

ONLY THE FOLLOWING MATERIALS ARE SUPPLIED BY FOSTER GEOTECHNICAL

- PRECAST PANELS
- REINFORCING MESH - IOOP EMBED
- LOUP EMBED HOPE BEARING PAD (NOMINAL 4.0 MELT / .950 DENSITY) NON-WOVEN FILTER CLOTH AND ADHESIVE (FOR PANEL JOINTS ONLY) WERTECH-TERRATEX NO. 4 OR FOUND

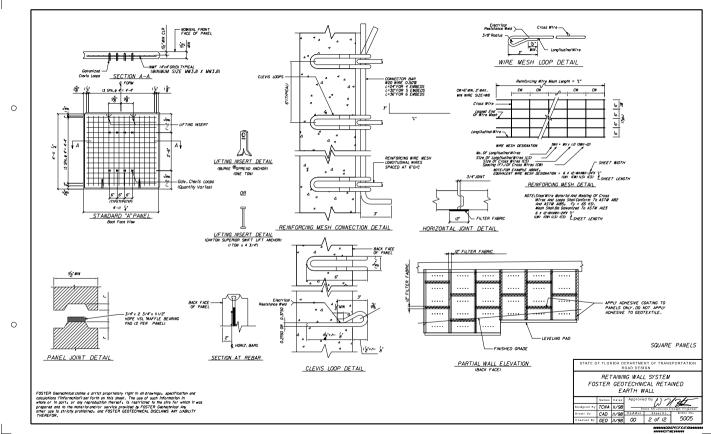
AMY OTHER MATERIALS CALLED FOR IN THE CONTRACT PLANS OR SPECIFICATIONS ARE TO BE SUPPLIED BY THE CONTRACTOR, AMY JUNEAU MATERIALS SHOWN AT THE INTERFACE OF PRECAST PAMELS AND CAST-IM-PLACE CONCRETE STRUCTURES ARE TO BE SUPPLIED BY THE ERECTION CONTRACTOR, ALL SANDBLASTING, PAINTING, SEALERS OR OTHER SPECIAL APPLIED COATINGS ARE ALSO SUPPLIED / INSTALLED BY THE CONTRACTOR IN THE FIELD FOLLOWING PANEL ERECTION.

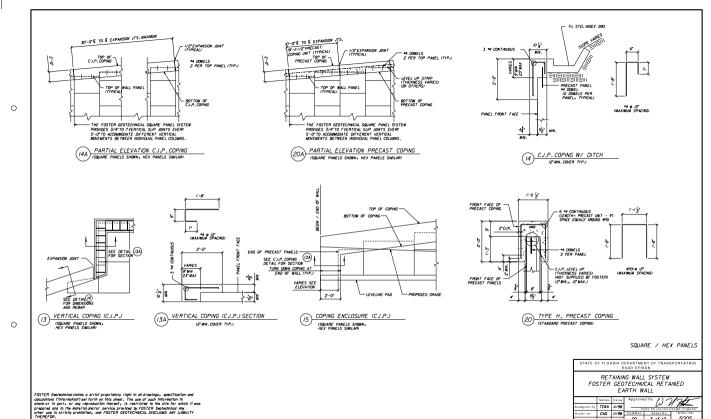
23. FOSTER GEOTECHNICAL SUPPLIES PRECAST CONCRETE FACING PANELS AND ACCESSIONES TO BE USED IN CONJUNCTION WITH OTHER MATERIALS IN THE CONSTRUCTION OF RETAINED EARTH WALLS DETAILED HEREIN THE CONSTRUCTION AND QUALITY CONTROL PROCEDURES WANNAL FURNISHED BY FOSTER GEOTECHNICAL IS INTENDED TO PROVIDE A FURNISHED BY FOSTE GEOTECHNICAL IS INTENDED TO PROJUDE A GENERAL EXPLANTION OF THE STITCH IT IS THE CONTRACTOR'S GENERAL EXPLANTION OF THE STITCH IS THE CONTRACTOR'S GEORGE. PAREL UNIQUOUS FORMATION AND OPPOSITS STITCH AND FALL PROTECTION STSTEM. THE BRANKIN STITCH SHOWN IN THE CONSTRUCTION AND QUALITY CONTROL PROCEDURES MANUAL IS GENERAL IN ANTIME AND DOES NOT ACCOUNT FOR PROJECT SECUR-GENERAL IN NATURE AND DOES NOT ACCOUNT FOR PROJECT SPECIFIC CRITERIA COMPUANCE WITH THE GUIDELINES IN THIS MANUAL DOES NOT RELIEVE THE CONTRACTOR OF ITS RESPONSIBILITY TO ADHERE TO THE PROJECT PLANS, SPECIFICATIONS AND CONTRACT DOCUMENTS OR COMPLIANCE WITH ALL FALL PROTECTION, SAFETY, LAWS, STANDARDS AND PROCEDURES AT THE JOSSITE. CONTRACTORS SHOULD TAKE SPECIAL PRECAUTIONS TO PREVENT THE PAMELS FROM SHIFTING OR FALLING DURING THE ERECTION PROCESS.

SQUARE / HEX PANELS

STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION RETAINING WALL SYSTEM FOSTER GEOTECHNICAL RETAINED **EARTH WALL** Names Dates Approved By esigned by TCNA II/98 rawn By CAD N/98 Resiston Sheet No. hecked By GEO 11/98 CO 1 of 12

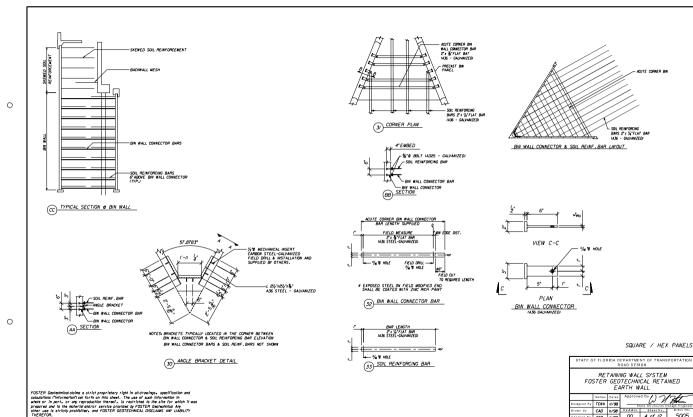
THIS SYSTEM SHALL BE USED IN MODERATELY OR SLIGHTLY AGRESSIVE ENVIRONMENTS ONLY.





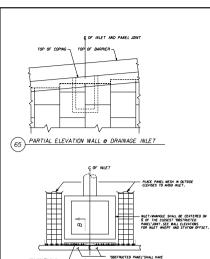
BEBERROOKSPECIFICATION BEBERROOM

CAD 11/98 Resiston Sheet No. Checked By GEO 11/98 00 3 of 12



5005 BRESSESSORSPECIFICATIONSSESSES BRESSESSTANE BRESSES

rawn By CAD N/98 Resiston Sheet No. Checked By GEO #/98 00 4 of 12

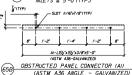


0

0

U% 3% 455-0 -EIGHTIBICLEVISES PER FOR. (ASTM A36-GALVANIZED) œ

A ONE "AFPER DESTRUCTED CLEVIS ROW OBSTRUCTION DETAIL (VERTICAL) $INIFTS \leq 5'-0"(TYP.)$ Z*(TYP)

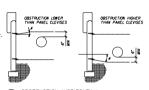


FOSTER Geotechnical claims a strict proprietary right in all drawings, specification and calculations ("information") set forth on this sheet. The use of such information in whole or in part, or any reproduction thereof, is restricted to the site for which it was prepared and to the material and/or service provided by FOSTER Geotechnical Any other use is strictly prohibited, and FOSTER GEOTECHNICAL DISCLAIMS ANY LIABILITY THEREFOR.

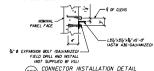
VERTICAL OBSTRUCTION NOTES

ORSTRUCTION SHALL BE CONSTRUCTED REFORE WALL INSTALLATION. FIELD CUT AND SKEW WESH AROUND OBSTRUCTION AS REQUIRED. THESE AREAS WILL BE CLEARLY INDICATEDON THE RETAINED EARTH SHOP DRAWINGS AND APPROVED BY THE ENGINEER OF RECORD.

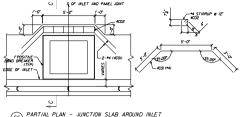
CUT MESH/DAMAGED GALV. SHALL BE COATED WITH ZINC RICH PAINT. NO CUTTING OF SOU REINFORCEMENT GRIDS ALLOWED UNLESS SHOWN ON SHOP DRAWINGS AND APPROVED BY THE ENGINEER



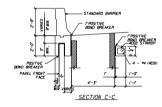
OBSTRUCTION (HORIZONTAL) * IS DEGREES MAX REND



(SECTION B-B)



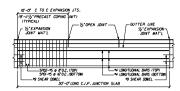
(REBAR NOT SUPPLIED BY FOSTER GEOTECHNICAL)



SQUARE / HEX PANELS

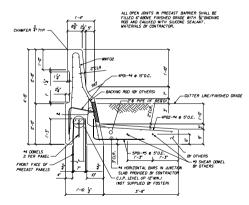
RETAINING WALL SYSTEM FOSTER GEOTECHNICAL RETAINED EARTH WALL Names Dates Approved By Designed by TCNA II/98 rawn By CAD II/98 Resiston 5005 Checked By GEO 11/98 00 5 of 12

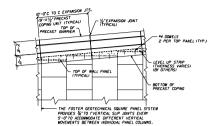
BEBERROOKSPECIFICATION BEBERROOM

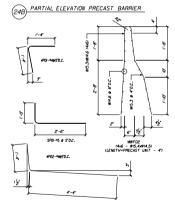


PLAN VIEW - PRECAST TRAFFIC BARRIER

(HORIZONTAL BARS IN JUNCTION SLAB & 19 SHEAR DOWELS, NOT BY VSL)







SQUARE / HEX PANELS

RETAINING WALL SYSTEM
FOSTER GEOTECHNICAL RETAINED

24 TYPE HTB_ PRECAST BARRIER W/COPING & JUNCTION SLAB

U.S. PATENT NO. 4,494,892

FOSTER Gestechnical claims a strict proprietary right in all stemings, specification and colorabless (Timentation) self orth on this steet. The use of such information in while or in parts or any reproduction thereofs, is restricted to the site for which it was prepared and to the material andres service provided by FOSTER Generalization and other use is strictly prohibited, and FOSTER GEOTECHNICAL DISCLAMS ANY LABULTY THEREFOR.

0

0