8614 WESTWOOD CENTER DRIVE SUITE 1100, VIENNA, VIRGINIA 22182 (703) 821-1175

## DESIGN CRITERIA

 DESIGN IS BASED ON THE ASSUMPTION THAT THE MATERIAL BEHIND THE PRECAST TECHNALL, METHODS OF CONSTRUCTION AND QUALITY OF PREFABRICATED MATERIALS SHALL CONFORM TO THE SPECIFICATIONS FOR TECHNALL

## 2. SOIL PARAMETERS:

SEE WALL CONTROL DRAWNOS FOR SOL CHARACTERISTICS OF FOUNDATION WATERIAL TO BE USED IN THE DESIGN OF THE WALL SYSTEM THE CONTRACTOR SHALL PROVIDE SOL DESIGN PARAMETERS FOR BACKFUL WATERIAL BASED ON THE ACTUAL SOL CHARACTERISTICS UTLIZED AT THE SITE. THE VALUES OF Ø, C AND Y SHALL BE PROVIDED IN THE SHOP DRAWNOG.

- 3. THE MAXIMUM APPLIED BEARING PRESSURE AT THE TOE OF THE TECHNALL IS AS SHOWN ON THE WALL ELEVATIONS FOR EACH DESIGN CASE. IT IS THE RESPONSIBILITY OF THE OWNER TO DETERMINE THAT THIS APPLIED BEARING PRESSURE IS ALLOWABLE FOR THAT LOCATION.
- 4. ANY UNSUITABLE FOUNDATION MATERIAL BELOW THE CAST-IN-PLACE FOOTING, AS DETERMINED BY THE ENGINEER, SHALL BE EXCAVATED AND REPLACED WITH SUITABLE MATERIAL OR OTHERWISE STABILIZED AS DIRECTED BY THE ENGINEER.
- 5. THE MINIMUM FACTORS OF SAFETY REQUIRED FOR DESIGN OVERTURNING = 2.0 SUDING = 1.5

BEARING CAPACITY = 2.5 OVERALL STABILITY = 1.5

REINFORCING STEEL DESIGN SHALL BE IN ACCORDANCE WITH AASHTO STANDARD SPECIFICATIONS FOR HIGHWAY BRIDGES AND FDOT DESIGN GUIDELINES NO. 625-020-150B.

## WALL CONSTRUCTION

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- 6. FOR LOCATION AND ALIGMENT OF TECHWALL, SEE RETAINING WALL CONTROL PLANS
- TECHWALLS IN CURVES WILL FORM A SERIES OF SHORT CHORDS OF 8.00' EACH TO MATCH DESIRED WALL ALIGNMENT.
- 8. IF MANHOLES AND DROP INLETS ARE PRESENT, THEY SHALL BE LOCATED AS SHOWN ON WALL ELEVATIONS.
- IF PILES ARE LOCATED WITHIN THE TECHNALL RETAINED VOLUME, THEY SHALL BE DRIVEN PROR TO CONSTRUCTION OF THE TECHNALL MILESS A METHOD IS USED TO PROTECT THE STRUCTURE, WHICH IS ACCEPTABLE TO THE ENGINEER AND THE REINFORCED EARTH COMPANY, AND IS PROPOSED AND APPROVED IN WRITING.

- IO. BACKFILL MATERIAL SHALL BE COMPACTED IN ACCORDANCE WITH SECTION 548 OF THE FLORIDA DOT SPECIFICATIONS.
- II. IF STRUCTURES IN EXCESS OF 20' IN HEIGHT OCCUR, THE FINISHED GRADE IN FRONT OF THE WALL SHALL BE PLACED AND COMPACTED BEFORE WALL CONSTRUCTION EXCEEDS A HEIGHT OF 20', FINISHED BANDE BACKFLU SHALL BE COMPACTED TO 95% OF ASSHTO T-IBO, UNLESS OTHERWISE DIRECTED BY THE ENGINEER.
- 12. TECHWALL PANELS TO BE FINISHED WITH COPING SHALL HAVE \*4 DOWELS PROTRIDING FROM THEIR TOP FOGE
- 13. FOR OTHER INFORMATION PERTAINING TO WALL CONSTRUCTION PLEASE
  REFER TO THE REINFORCED EARTH CONSTRUCTION MANUAL FOR TECHNALL.
- IF UNDERDRAIN IS SHOWN, THE FLOWLINE AND OUTLETS SHALL BE AS PER THE CONTRACT PLANS.

## **MATERIALS NOTES**

- 15. PANEL FINISH
  - THE PRECAST PANELS FOR THIS PROJECT SHALL HAVE A PLAIN STEEL FORM FINISH UNLESS OTHERWISE SPECIFIED IN THE CONTROL PLANS.
- 16. ONLY THE FOLLOWING MATERIALS ARE SUPPLIED BY THE REINFORCED EARTH COMPANY:
  - PRECAST CONCRETE FACING PANELS
  - GEOCOMPOSITE TERRADRAIN IOLOR EQUIVALENT (FOR PANEL JOINTS ONLY)
  - LIFTING HARDWARE FOR HANDLING PRECAST PANELS.(ON LOAN BASIS)
     PANEL LEVELLING BOLTS AND PLATES.

ANY OTHER MATERIALS CALLED FOR IN THE CONTRACT PLANS OR SPECIFICATIONS ARE TO BE SUPPLIED BY THE CONTRACTOR, ANY JOINT MATERIALS SHOWN AT THE INTERFACE OF PRECAST PANELS AND CARE "PHYLOC CONCRETE STRUCTURES AND TO BE SUPPLIED BY THE ERECTION CONTRACTOR, ALL SANDBLASTING, PAINTING, SEALERS OR OTHER SPECIAL PARTICLE FOR THE ANY AND ANY ALL SANDBLAST PRECAMENTAL BY THE CONTRACTOR ANY ALL SANDBLAST AND ANY ALL SANDBLAST PRECAMENTAL BY THE CONTRACTOR ANY ALL SANDBLAST PRECAMENTAL BY THE PROPERTY OF THE

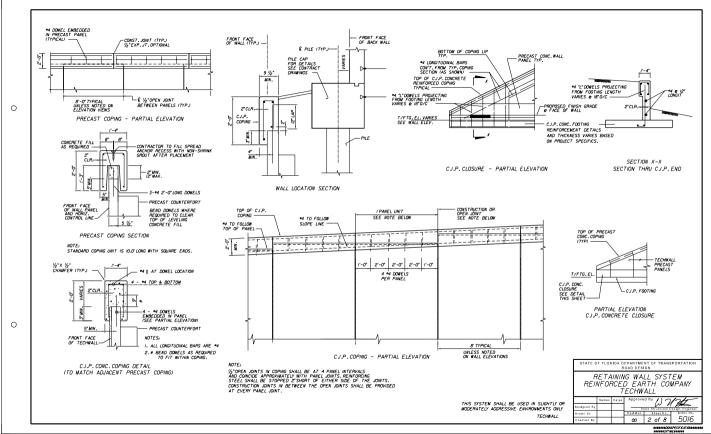
- 18. CONCRETE COVER
  - CAST-IN-PLACE
  - 4" CLEAR ON REBAR FOR CONCRETE CAST AGAINST EARTH. 3" CLEAR ON REBAR FOR ALL OTHER C.J.P. CONCRETE UNLESS NOTED OTHERWISE
  - PRECAST CONCRETE
  - ALL REBARS IN PRECAST CONCRETE SHALL HAVE 2" MINIMUM CONCRETE COVER.
- CONCRETE FOR PRECAST PANELS WILL BE PROVIDED BY THE REINFORCED EARTH COMPANY'S MANUFACTURING PLANT IN ACCORDANCE WITH SECTION 346 OF THE FLORIDA DOT SPECIFICATIONS.
- 20. THE REINFORCED EARTH COMPANY IS RESPONSIBLE FOR INTERNAL STABIUTY OF THE STRUCTURE ONLY. EXTERNAL STABIUTY DESIGN INCLUDING FOUNDATION AND SLOPE STABIUTY IS THE RESPONSIBILITY OF OTHERS.
- 21. THESE DRAWINGS ARE CERTIFIED WITH RESPECT TO THE INTERNAL STABILITY OF REINFORCED EARTH STRUCTURES ONLY
- 22. THIS DRAWING CONTAINS INFORMATION PROPRIETARY TO THE REINFORCED EARTH COMPANY, AND IS BEING FUNDHENDE FOR THE USE HIS COMECTION WITH FOOT PROJECTS COMITY AND THE WORDHATON CONTAINED HEREN IS NOT TO BE TRANSWITTED TO AND OTHER DRAWN FOR THE PROPRIET OF THE PROPRIET O

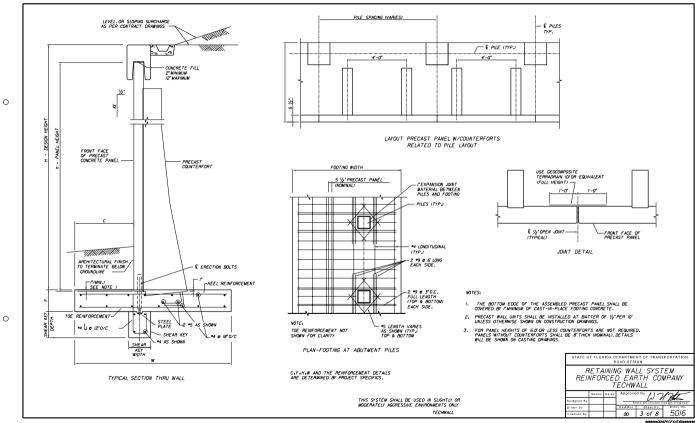
THIS SYSTEM SHALL NOT BE USED IN ACUTE ANGLE SMALLER THAN 60°

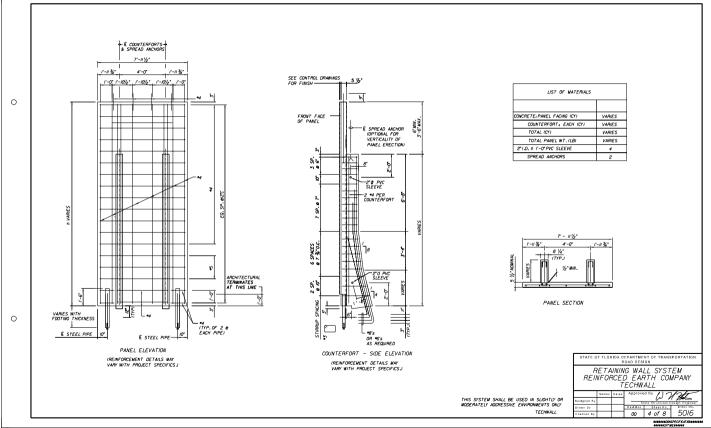
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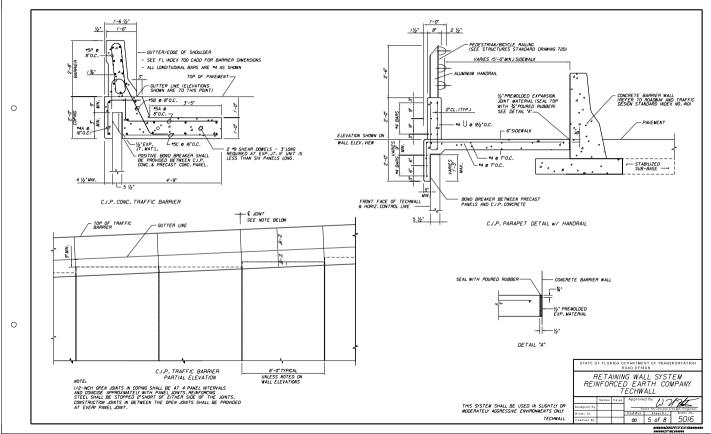
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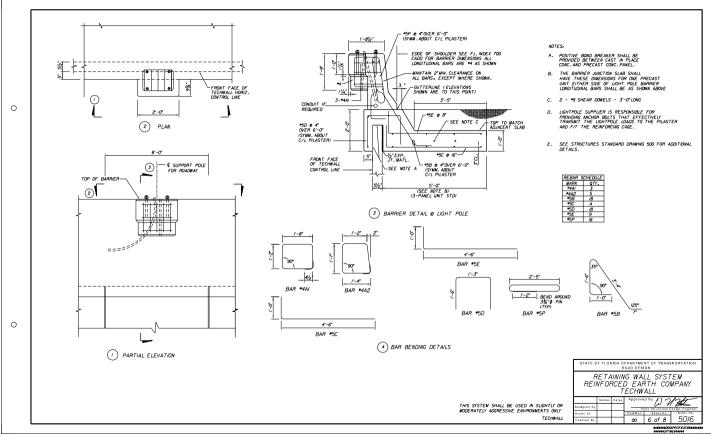
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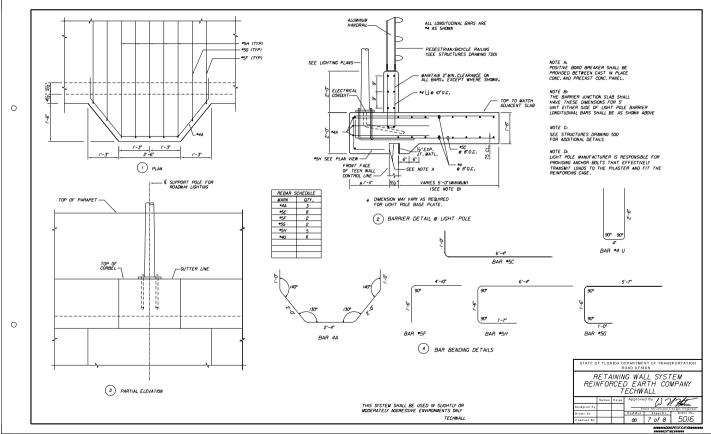


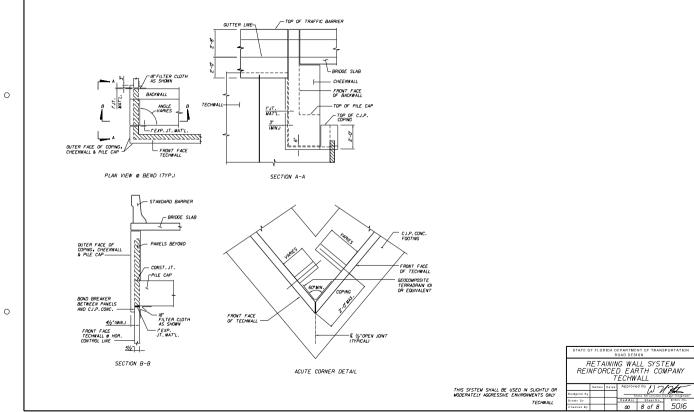












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