

| ESTIMA | TED SMSE WALL | QUANTITIES |
|------------|--------------------|---------------|
| SHORED MSE | RETAINING WALL #28 | 2,310 SQ. FT. |
| SHORED MSE | RETAINING WALL #29 | 2,370 SQ. FT. |

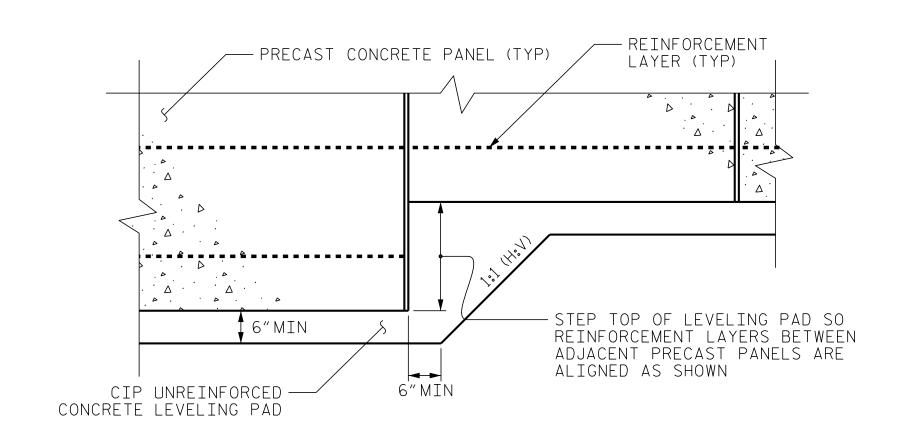
| ESTIMATED SOIL NAIL WALL QUANTITIES | | | | | | | |
|-------------------------------------|---|---------------------------------|--------------------------|--|--|--|--|
| RETAINING WALL # | SOIL NAIL RETAINING WALLS (SQUARE FEET) | SOIL NAIL VERIFICATION TESTS | SOIL NAIL PROOF TESTS | | | | |
| 28 | 1 , 960 * | 2 | 7 | | | | |
| 29 | 2 , 110 * | 2 | 7 | | | | |

^{*}INCLUDES RETAINING WALL EMBEDMENT

| FROI | NT SLOPE WALL EMBE | DMENT | |
|-----------------|-------------------------|-------|--|
| SLOPE IN FRO | MINIMUM EMBEDMENT DEPTH | | |
| | FOR WALLS | H/2Ø | |
| HORIZONTAL | FOR ABUTMENTS | H/1Ø | |
| 3.ØH:1.ØV | WALLS | H/10 | |
| 2.5H:1.ØV | WALLS | H/8.5 | |
| 2.ØH:1.ØV WALLS | | H/7 | |
| 1.5H:1.0V | 1.5H:1.ØV WALLS | | |
| 1.25H:1.ØV | WALLS | H/4 | |
| 1.0H:1.0V WALLS | | H/3 | |

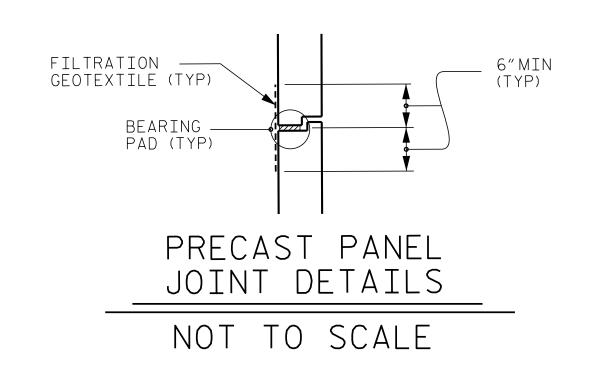
NOTE:

- 1) MAINTAIN A MINIMUM BENCH WIDTH OF 4 FT IN FRONT OF THE WALL FOR ITS ENTIRE LENGTH.
- 2) MINIMUM EMBEDMENT DEPTH OF 2 FT, UNLESS LARGER DEPTHS DICTATED BY ABOVE TABLE.
- 3) MAXIMUM SLOPE OF 1H:1V WILL BE MAINTAINED ON FRONT SLOPES FOR THE ENTIRE LENGTH OF THE WALL.
- 4) SUBMIT WITH THE WALL DESIGN INTERNAL, EXTERNAL, AND GLOBAL STABILITY ANALYSES.
- REFERENCE SPECIAL PROVISION GT-7 FOR SMSE WALL.



PRECAST PANELS LEVELING PAD STEP DETAIL

NOT TO SCALE



PROJECT NO.: A-0009CB

GRAHAM COUNTY

RETAINING WALL #28 STATION: -L-389+25, 47' RT TO 392+00, 39' RT

RETAINING WALL #29 STATION: -L- 393+90, 40' RT TO 395+90, 37' RT SHEET 3 OF 10





NORTH CAROLINA DEPARTMENT OF TRANSPORTATION DIVISION OF HIGHWAYS

GEOTECHNICAL ENGINEERING UNIT

RETAINING WALL #28 AND #29 SHORED MECHANICALLY STABILIZED EARTH (SMSE) WALL

| REVISIONS | | | | | | SHEET |
|-----------|----|------|-----|----|------|--------|
| NO. | BY | DATE | NO. | BY | DATE | NO. |
| 1 | | | 3 | | | W28_29 |
| 2 | | | 4 | | | -3 |

DATE: 7/14/2022 PREPARED BY: DMB DATE: 7/14/2022 REVIEWED BY: REK