



SCALE: 1" = 1' - 0"

Technical drawing of a soil nail wall cross-section. The drawing illustrates the following components and dimensions:

- SHOTCRETE**: The outer wall material.
- SHOTCRETE COVER FOR ANCHORAGE SYSTEM**: Indicated by a dimension of  $2\frac{3}{4}$ ".
- WWF4x4 - W4.0xW4.0 GRADE 60 CONTINUOUS (6" MIN. SPLICE LENGTH)**: The main vertical reinforcement.
- 8" x 8" x  $\frac{3}{4}$ " GALV. STEEL PLATE**: Located at the top of the wall.
- 4 -  $\frac{1}{2}$ " x 3" HEADED GALV. CONCRETE ANCHOR STUDS**: Used for the steel plate.
- GALV. ANCHOR NUT** and **GALV. SPHERICAL SEAT WASHER**: Components of the anchorage system.
- POST GROUT TO SEAL SEE SPECIAL PROVISIONS**: Indicated at the top of the wall.
- PVC BAR CENTRALIZER SPACED @ 10'-0" o.c. MAX. AND PROVIDE CENTRALIZERS WITHIN 1'-0" FROM THE TOP AND BOTTOM OF DRILLHOLE**: Components for the soil nail.
- GROUT**: Material filling the hole around the soil nail.
- 6" DIA. MIN. DRILLHOLE**: The hole for the soil nail, shown at a  $15^\circ$  angle.
- #8 GRADE 60 ENCAPSULATED SOIL NAIL**: The horizontal reinforcement nail.
- 2 - #4 BARS HORIZ. & VERT. SPACED 12" o.c. CONTINUOUS; ONE EACH SIDE OF SOIL NAIL (13" MIN. SPLICE LENGTH)**: Reinforcement for the soil nail.
- Dimensions**:
  - 6" MIN. (vertical distance from steel plate to anchor studs)
  - 4" MAX. (horizontal distance from wall face to soil nail)

SCALE: 1 1/2" = 1'-0"

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| PROJECT LEADER: R. R. WHITCOMB           | DRAWN BY: G. ROY       |
| DESIGNED BY: C. ALLEN                    | CHECKED BY: C. ALLEN   |
| BRIDGE SHEET BR313                       | SHEET 144A OF 243      |