25'-0" Span Nested Guardrail for Large Drainage Structure

**Plan**
- Limits of cable terminal anchor
- Limits of nested guardrail (100'-0") centered over structure
- Standard W-beam guardrail as required for length of need in advance of area of concern
- GRET Type OS or Type II as required
- 6'-3" GPA @ 6'-3" = 37'-4"
- 6.5pa @ 6'-3" = 37'-4"
- 24'-3" (max.)
- Structure width: out to out
- Structure: 61'-0" (max.)
- Structure width: out to out
- Traffic
- Two standard nested W-beam rail (12 ga.)
- Standard W-beam rail element
- 6'-0" length steel posts w/ routed wood blockouts
- 6'-0" Length CBT Posts w/ Two Wood Blockouts
- 6'-0" length steel posts w/ routed wood blockouts

**Elevation**
- Guardrail sections (typ.)
- Guardrail post

**Lap Detail for Nested W-Beam Railing Section**
- Traffic

**Notes:**
1. For two-lane two-way operation, use GRET type OS. For structure width > 24'-3", provide three additional spans of standard W-beam guardrail at 6'-3" each before attaching the GRET.
2. For multi-lane divided operation, use cable terminal anchor. See Standard Drawing E 601-GCTA-01 through E 601-GCTA-06 for GRET Type II details.
5. Maximum structure width shall be 24'-3" out to out of structure(s) parallel to road centerline for skewed or perpendicular structure. In this case posts are not located over portion of structure.
6. Maximum structure width shall be 61'-0" out to out of structure(s) parallel to roadway centerline for skewed or perpendicular structure. Modified posts (5 through 10) over the structure where required, see Standard Drawing E 601-NWGA-03. The remaining wood posts shall be shown on Standard Drawing E 601-NWGA-02.
7. Post clear outer structure side by 4" min.
8. This dimension is 25'-0" between posts 7 and 8. The dimension is 12'-6" or 25'-0" elsewhere.
9. For grading requirements see Standard Drawings E 601-GRET-06 through 09 and E 601-GRET-12.
NESTED GUARDRAIL ASSEMBLY.

(Pole 5 to 10)

6" x 8" x 1'-2'
blockouts

10d nails

6" x 6" CRT wood post

2 nested W-beam elements

5/8" dia. button head
guardrail bolt with
heavy hex nut recessed
both sides. \( L = 2'-1" \),
thread length \( T \) (min.) = 4"

3 1/4" dia. hole (typ)

6" x 8" x 1'-2'
blockouts

5/8" dia. button head
guardrail bolt with
heavy hex nut recessed
both sides. \( L = 10" \),
thread length \( T \) (min.) = 4"

NESTED GUARDRAIL ASSEMBLY

(STEEL POST AND BLOCK FOR USE WITH
NESTED GUARDRAIL ASSEMBLY)

(Pole 1 to 4 and 11 to 14)
NESTED W-BEAM GUARDRAIL
ASSY. WITH MODIFIED POSTS
OVER STRUCTURE WIDTH
(POSTS 5 TO 10)
GUARDRAIL ASSEMBLY FOR COVER ≥ 4'-1 1/4"
FOR ANY STRUCTURE WIDTH

NOTES:
1. This drawing shall be used for any structure width provided cover over structure ≥ 4'-1 1/4".
2. The 6'-0" length guardrail post shall be used if 4'-1 1/4" ≤ cover ≤ 5'-1 1/4".
3. The 7'-0" long guardrail post shall be used if cover > 5'-1 1/4".
4. 3'-7 1/4" for 6'-0" length post and 4'-7 1/4" for 7'-0" length post.
5. A = 2'-6" for 6'-0" length post.
   A = 0 (min.) for 7'-0" length post.