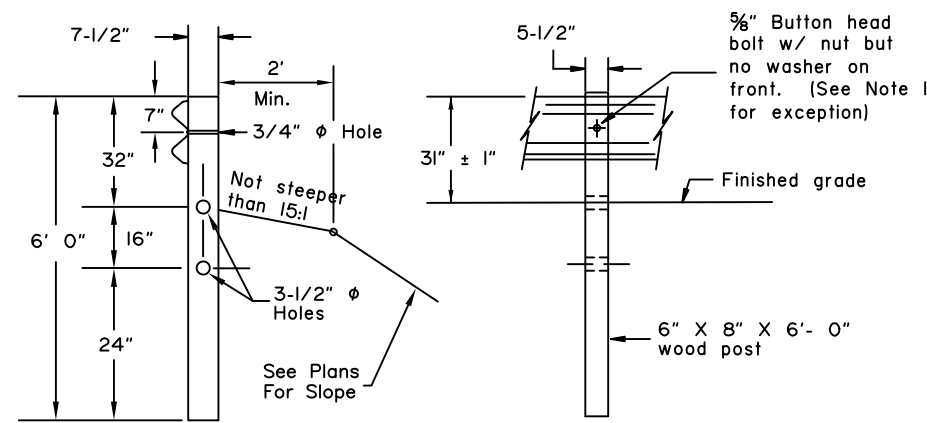
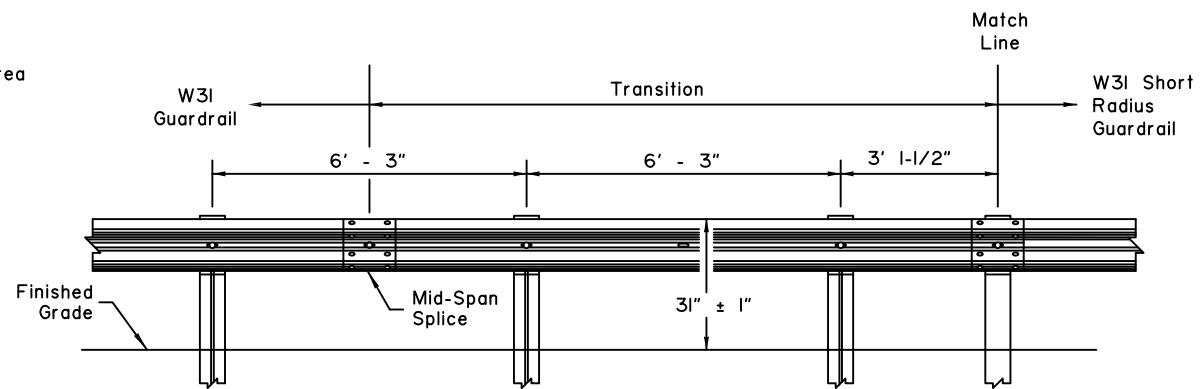


SHORT RADIUS GUARDRAIL PLAN

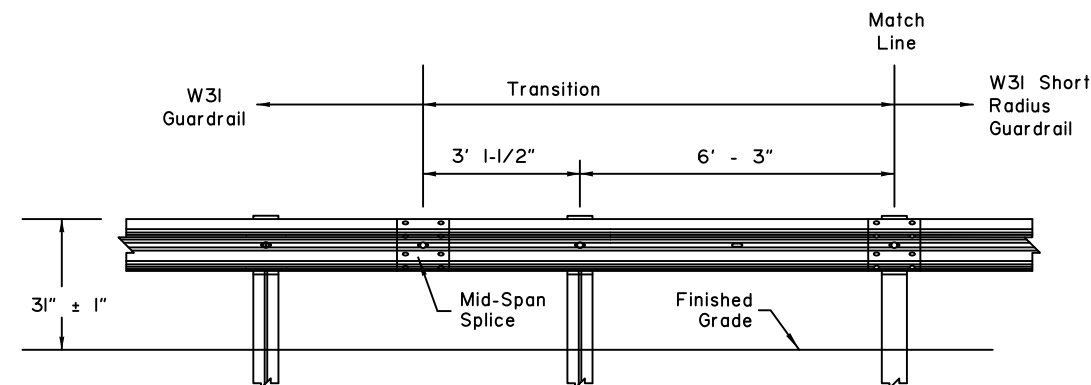


CONTROLLED RELEASE TERMINAL (CRT) POST



TRANSITION TO W31 GUARDRAIL - TYPE I

(As viewed from Main Highway)
(See Construction Note 2)



TRANSITION TO W31 GUARDRAIL TYPE II

(As viewed from Main Highway)
(See Construction Note 2)

DATA TABLE *					
Curve Radius, Ft. (Rounded)	Curve Length	Number of Rail Sections	Clear Area		** No. of Posts
			Length (L)	Width (W)	
8'	12.50'	1.0	25	15	5
12'	18.75'	1.5	25	15	6
16'	25.00'	2.0	30	15	7
20'	31.25'	2.5	33	15	8
24'	37.50'	3.0	37	20	9
28'	43.75'	3.5	40	20	10
32'	50.00'	4.0	45	20	11
36'	56.25'	4.5	50	20	12

* The table applies only to 90° approaches or driveways.
 * 36 feet is the maximum allowable radius for this system.
 ** Number of CRT posts includes one for the In-Line Anchor.

CONSTRUCTION NOTES:

1. Do not bolt rail to central post on 8' radius CRT.
2. Steel posts are shown in the transition. Wood post may be substituted when allowed by the Specifications.

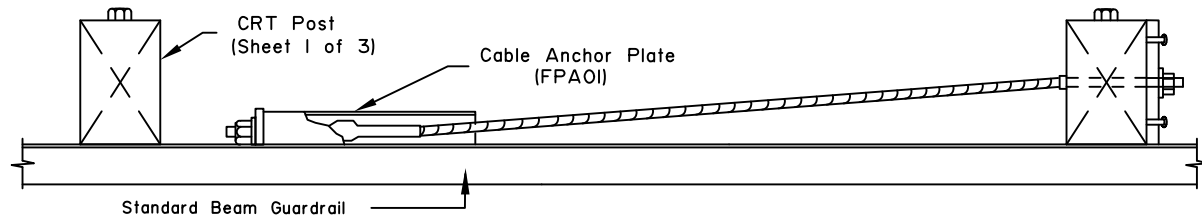
DESIGN NOTES:

1. Use the W31 short radius guardrail system to shield hazards at the intersection of a main highway with a minor road or driveway. Typical application include interruptions in guardrail runs caused by intersecting roadways
2. The short radius guardrail Terminal Anchor shown is for use on low speed (<45 mph) approach roads or driveways where motorists are required to stop or yield. Do not use this Terminal Anchor for high speed approach roads or driveways when a MASH approved end treatment is required.
3. The Clear Area shall be free of fixed object hazards. Any signs or other highway appurtenances in the clear area must be mounted on MASH compliant breakaway supports.
4. Connections to other guardrail systems (e.g. bridge rails and end treatments) and not provided on this drawing. Other details may be needed for this.
5. Short Radius Guardrail on 60 to 90 degree approaches are allowed provided they are constructed with posts at the P.C. and P.T. and the posts are placed on a uniform 6'-3" spacing.
6. When Short Radius Guardrail transitions to guardrail not at 31" ± 1" top-of-rail height, transition height over a 25 foot length.

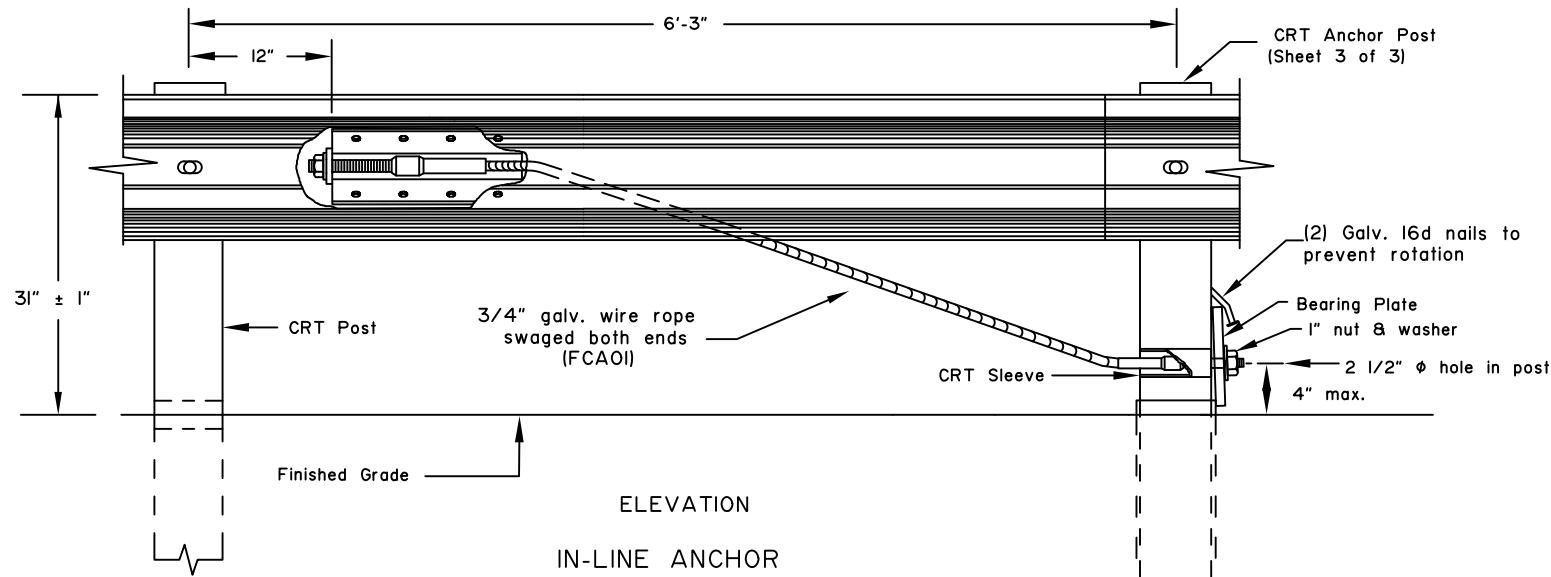
State of Alaska DOT&PF
 ALASKA STANDARD PLAN
W31 SHORT RADIUS GUARDRAIL
 Adopted as an Alaska Standard Plan by: *Kenneth J. Fisher*
 Kenneth J. Fisher, P.E.
 Chief Engineer
 Adoption Date: 02/08/2019
 Last Code and Stds. Review By: Date:
 Next Code and Standards Review date: 02/08/2029

CONSTRUCTION NOTES

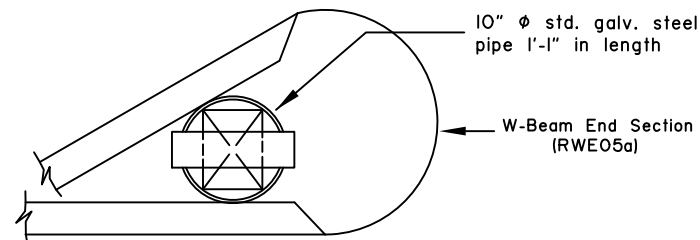
1. See Standard Drawings G-00 and G-05 for details not shown here.
2. All covered hardware must comply with the AASHTO/AGC/ARTBA "A Guide to Standardized Highway Barrier Hardware", latest edition. Designators are given in parenthesis, when possible.



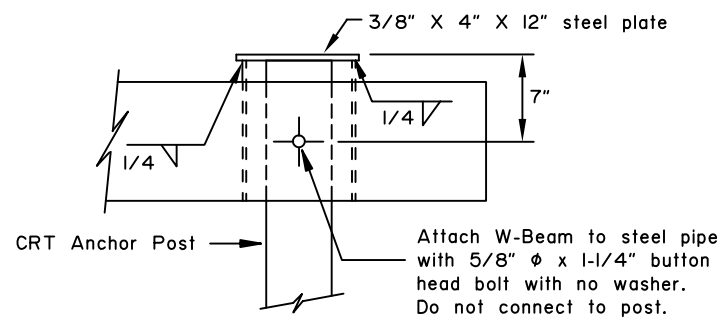
PLAN



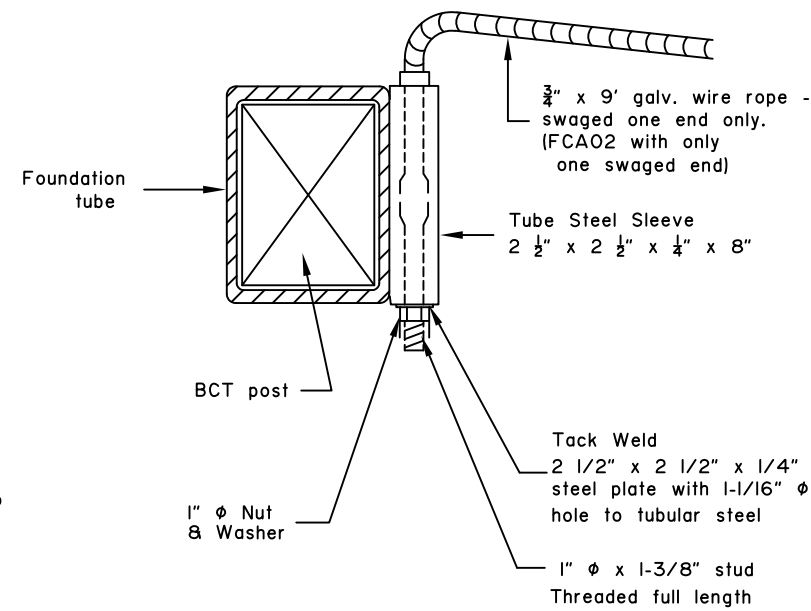
ELEVATION
IN-LINE ANCHOR



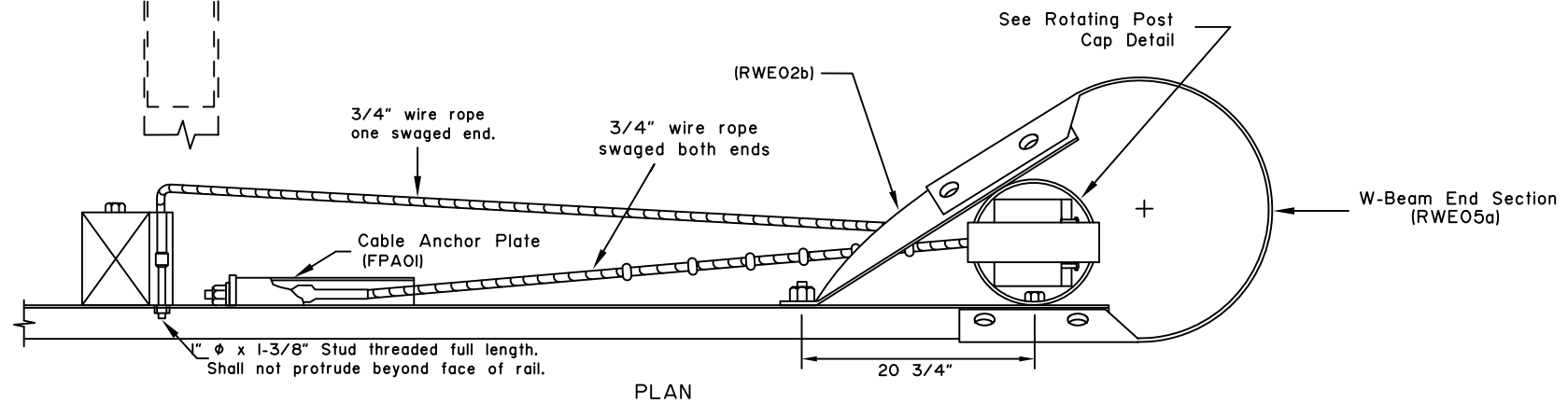
W-Beam End Section (RWE05a)



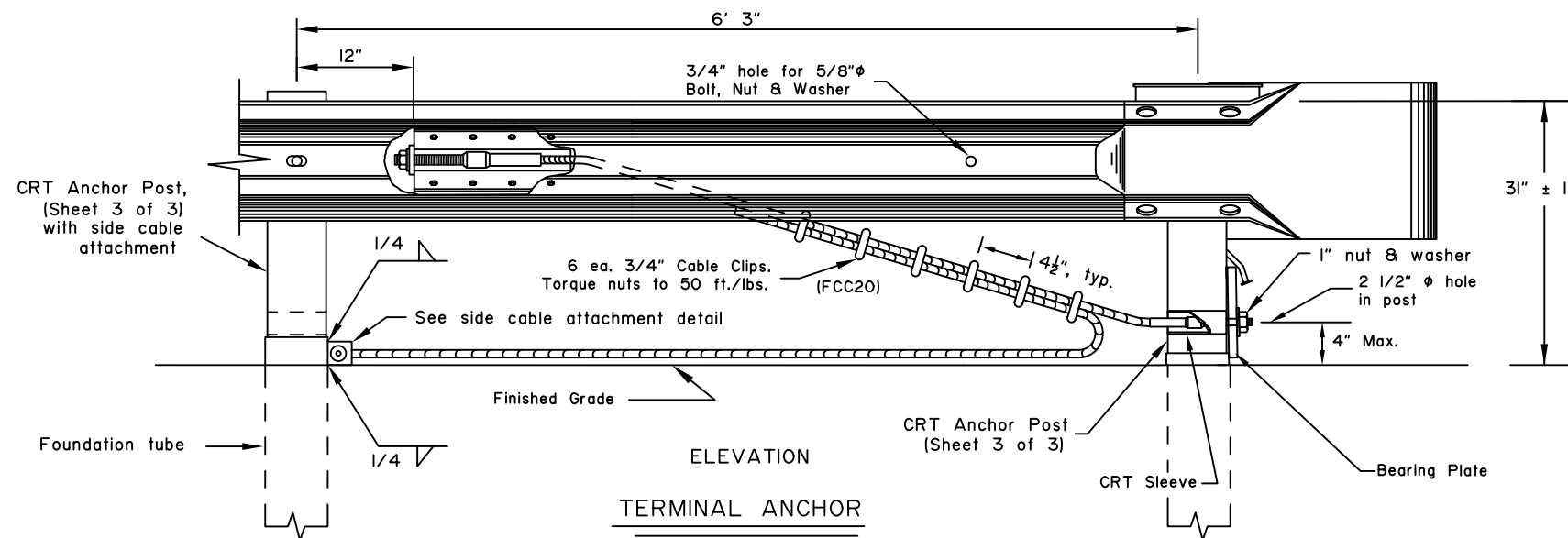
ROTATING POST CAP



SIDE CABLE ATTACHMENT



PLAN



ELEVATION

TERMINAL ANCHOR

State of Alaska DOT&PF
ALASKA STANDARD PLAN

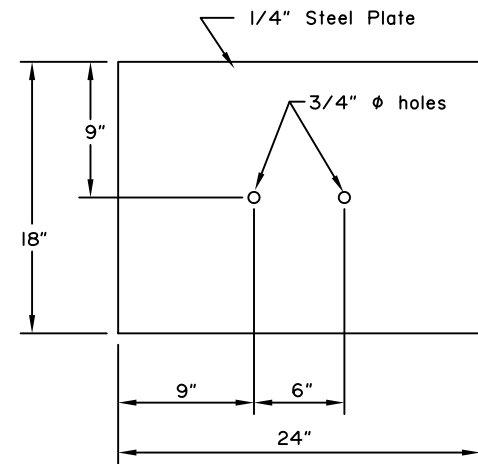
W31 SHORT
RADIUS GUARDRAIL

Adopted as an Alaska
Standard Plan by: *Kenneth J. Fisher*
Kenneth J. Fisher, P.E.
Chief Engineer

Adoption Date: 02/08/2019

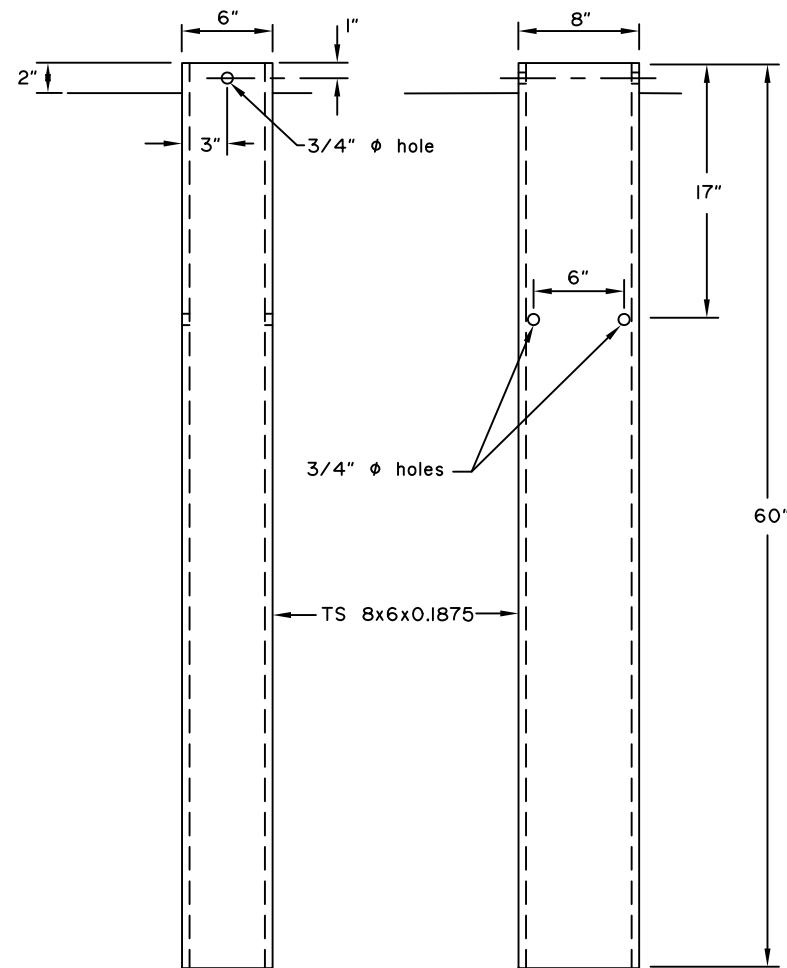
Last Code and Stds. Review
By: Date:

Next Code and Standards Review date: 02/08/2029



FOUNDATION TUBE SOIL PLATE

(PLS03)

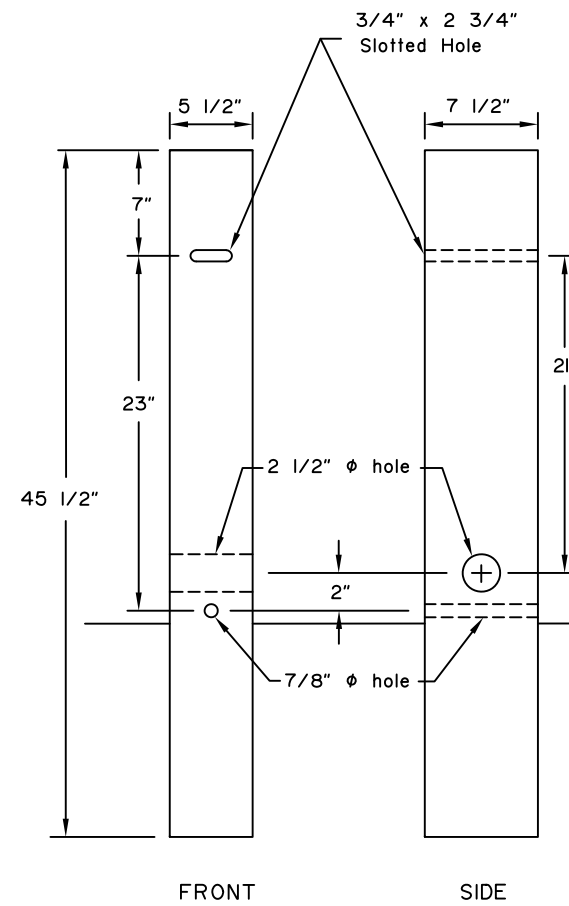


FRONT

SIDE

FOUNDATION TUBE

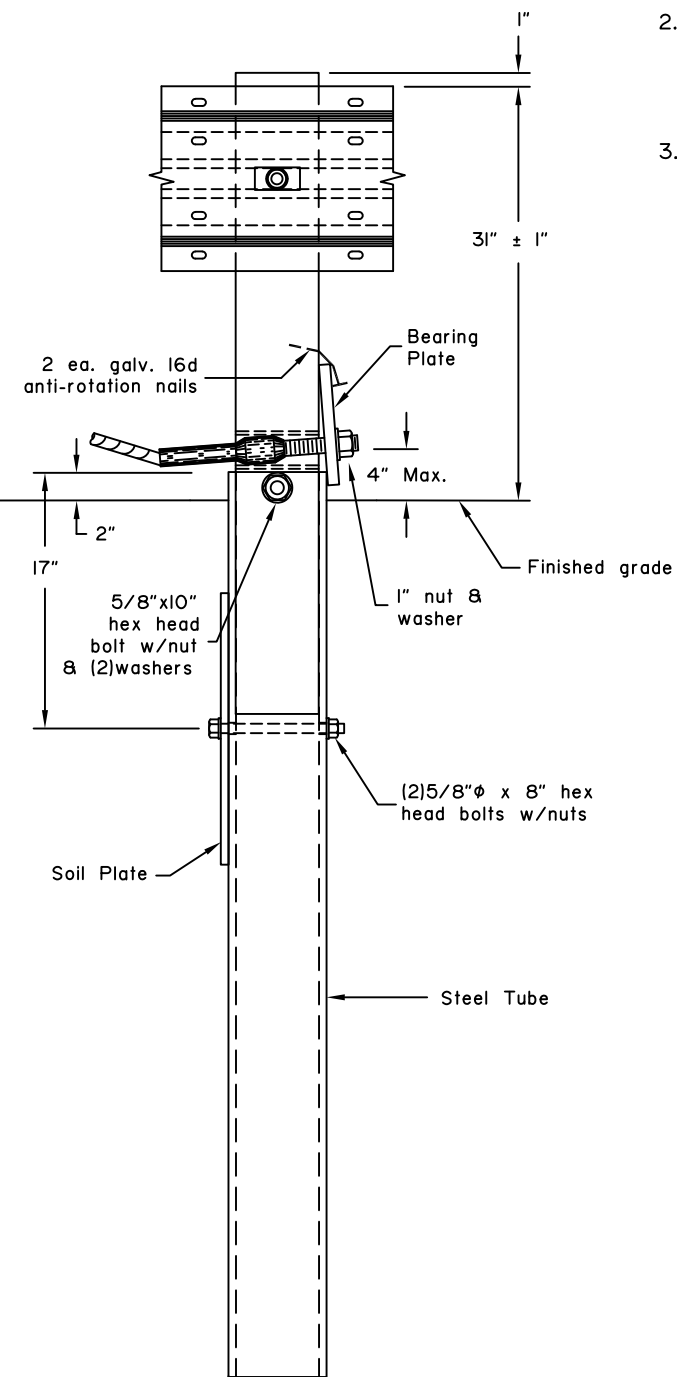
(PTE05)



FRONT

SIDE

WOOD POST



ASSEMBLY

GENERAL NOTES:

1. Hardware details not shown here shall conform to drawings G-05W and G-00.
2. Comply with the AASHTO/AGC/ARTBA "A Guide to Standardized Highway Barrier Hardware", latest edition, for all covered guardrail hardware.
3. Not all bolt and nuts are shown for clarity purposes.

State of Alaska DOT&PF
ALASKA STANDARD PLAN

W31 SHORT
RADIUS GUARDRAIL

Adopted as an Alaska
Standard Plan by: *Kenneth J. Fisher*
Kenneth J. Fisher, P.E.
Chief Engineer

Adoption Date: 02/08/2019

Last Code and Stds. Review
By: Date:

Next Code and Standards Review date: 02/08/2029