

LOCATION OF GUARDRAIL WITH ASPHALT SHOULDER
 LOCATION OF GUARDRAIL WITH CONCRETE SHOULDER
STANDARD GUARDRAIL & SLOPE TREATMENT - TYPE A INSTALLATION

SLOPE REQUIREMENTS (MINIMUM)	
* a	PAVEMENT STRUCTURE SLOPE SAME AS FORESLOPE BUT NOT STEEPER THAN 2:1.
* b	4'-8" MIN. IN DIFFICULT TERRAIN.
* c	1'-0" MIN. FROM BACK OF POST TO FORESLOPE HINGE LINE IN DIFFICULT TERRAIN.
* d	BLOCKOUT TYPE, SEE STD. DWG. G-1-A-3
USE OF CURB	
* e	SEE NOTE NO. 5 (REFER TO STD. DWG. G-1-A-2)

NOTES

1. THE 6'-0" STANDARD POST DESIGN (TYPE A INSTALLATION) SHALL BE INSTALLED UNLESS THE 7'-4" POST ALTERNATE DESIGN (TYPE B INSTALLATION) IS SPECIFIED ON THE PLANS. TYPE B INSTALLATION SHALL ONLY BE USED WHEN ALL OTHER REMEDIES HAVE BEEN ELIMINATED BECAUSE OF ENVIRONMENTAL CONSIDERATIONS OR DIFFICULT ROADSIDE CONDITIONS. WHEN USED THE FOLLOWING CONDITIONS MUST BE MET:

- I. APPROVAL OF USE IN CONCEPT REVIEW PROCESS. THE BALLAST AND FORESLOPE SHALL BE 2:1 OR FLATTER BEGINNING AT THE BACK OF THE GUARDRAIL POST.
- II. THE SOIL FOUNDATION OF EACH POST SHALL BE COMPACTED TO A MINIMUM OF 95% OF STANDARD DENSITY.
- III. SURFACING SHALL CONTINUE BEHIND THE POST AND IF DISTURBED DURING INSTALLATION IT SHALL BE REPAIRED OR REPLACED.
- IV. ON ROADS SURFACED WITH A BST, A 0.2' MIN. THICKNESS OF ASPHALT SURFACING SHALL BE PLACED AROUND EACH POST AND A V. 2'-0" MINIMUM PLACED LONGITUDINALLY WITH GUARDRAIL.

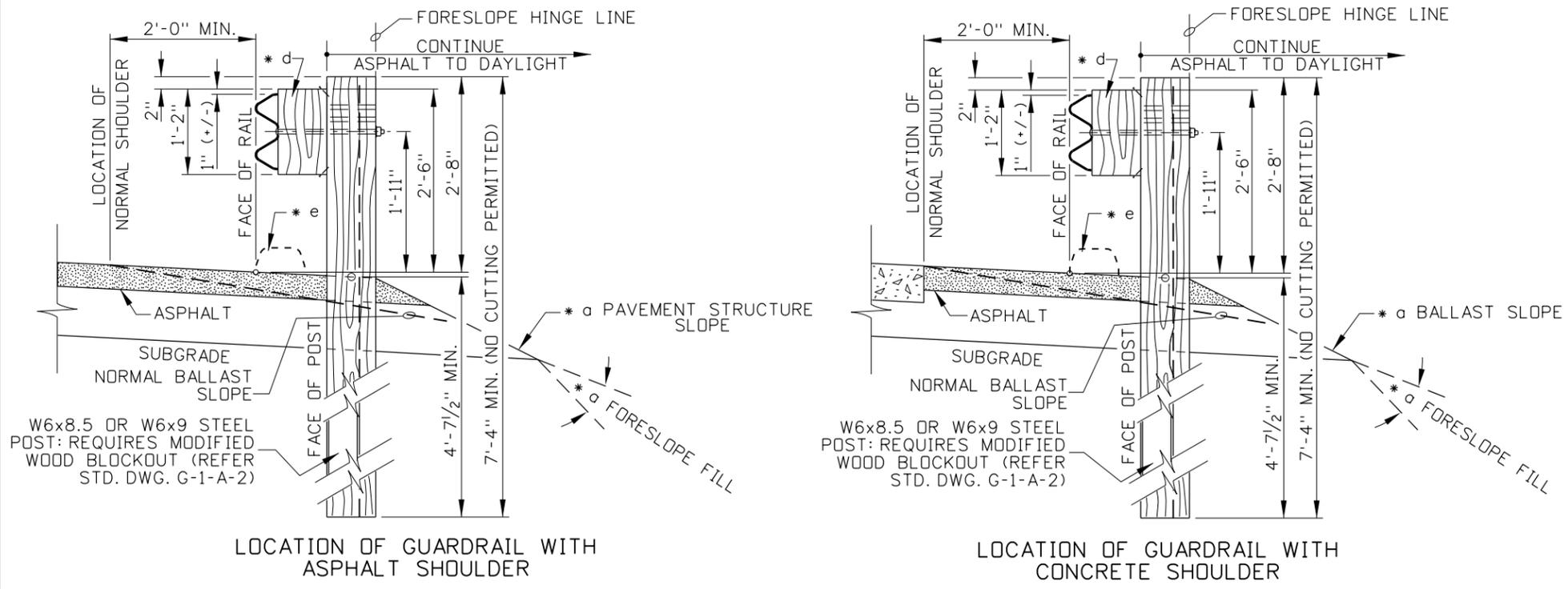
2. THE SLOPE OF THE SURFACE BETWEEN THE EDGE OF THE SHOULDER AND THE HINGE LINE SHOULD BE THE SAME AS THE ADJACENT ROADWAY SLOPE.

3. THE GUARDRAIL POSTS SHALL BE PLUMBED AND SET VERTICALLY. REFER TO SECTION 612 - GUARDRAIL, OF THE ITD STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION.

4. GUARDRAIL POST SPACING SHALL BE 6'-3" C.T.C. UNLESS OTHERWISE SHOWN.

5. WHEN CURB IS CALLED FOR THE CURB FACE SHALL BE LOCATED ALONG THE FACE OF RAIL. REFER TO STANDARD DRAWING G-1-A-2 FOR CURB INSTALLATION DETAILS AND STANDARD DRAWING H-1 FOR CURB TYPES.

6. NOT TO SCALE.



LOCATION OF GUARDRAIL WITH ASPHALT SHOULDER
 LOCATION OF GUARDRAIL WITH CONCRETE SHOULDER
7'-4" POST ALTERNATE & SLOPE TREATMENTS - TYPE B INSTALLATION

REVISIONS								
NO.	DATE	BY	NO.	DATE	BY	NO.	DATE	BY
3	07-92	MSM	8	02-00	MSM	13	12-03	MSM
4	02-96	MSM	9	06-00	MSM	14	10-04	MSM
5	01-97	WC	10	08-00	MSM	15	04-06	MSM
6	06-97	MSM	11	06-01	MSM	15	08-10	MGL
7	07-98	RG	12	10-02	MSM	16	08-11	RSC

SCALES SHOWN ARE FOR 11" X 17" PRINTS ONLY
 CADD FILE NAME: g1a1_0811.dgn
 DRAWING DATE: MAY, 1989

IDAHO TRANSPORTATION DEPARTMENT



BOISE IDAHO

ORIGINAL SIGNED BY: LOREN THOMAS
 HIGHWAYS PROGRAM OVERSIGHT ENGINEER

ORIGINAL SIGNED BY: TOM COLE
 CHIEF ENGINEER

STANDARD DRAWING
GUARDRAIL SLOPE TREATMENT TYPES A & B

English
 STANDARD DRAWING NO.
G-1-A-1
 SHEET 1 OF 1

ORIGINAL STORED AT: ITD, Headquarters 3311 West State Boise, Idaho

ORIGINAL SIGNED BY:
 RYAN SCOTT CARNIE
 DATE ORIGINAL SIGNED:
 AUGUST 26, 2011