

Add "NCHRP 350" before Test Level in this paragraph (5 places) or add a sentence stating that all were tested to 350.

INTENDED USE

Strong-post W-beam guardrails should be used in locations where a maximum dynamic deflection of 36 inches [900 mm] or less is acceptable. W-beam guardrails should be anchored and terminated using a suitable end treatment. SGLOD a (steel posts) with steel blockouts is a Test Level 2 barrier. SGR-04b (wood posts) with wood, steel or plastic blockouts is a Test Level 3 barrier; SGR-04c (steel posts) with wood or plastic blockouts is a Test Level 3 barrier; SGR-04d (round wood posts) with wood blockouts is a Test Level 3 barrier; SGR-04e (round wood posts) with wood blockouts is a Test Level 3 barrier.

COMPONENTS

Unit length = 150 inches [3810 mm]

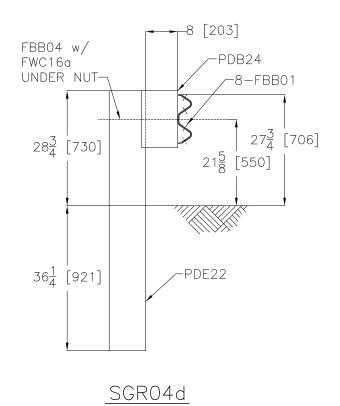
	Designator	Component	System	Number
	FBB01	Splice bolt and nut	a-e	8
	FBB02	Guardrail-post bolt and nut	a	2
	FBB03	Guardrail-post bolt and nut	c	2
	FBB04	Guardrail-post bolt and nut	b,d,e	2
	FBX16a	Post blockout bolt (1.5 inches [40 mm]) and nut	a	4
	FWC16a	Round washer	b-e	2
	PDB01a	Timber post blockout	b	2
	PDB01b	Timber post blockout	c	2
	PDB23	Round timber post blockout	e	2
	PDB24	Round timber post blockout	d	2
	PDE02	Timber post	b	2
or	PDE13	Timber post	b	2
	PDE21	Round timber post	e	2
	PDE22	Round timber post	d	2
	PWB01	Steel post blockout	a	2
	PWE01	Steel post	a,b	2
or	PWE02	Steel post	a,b	2
	RWB01a	W-beam backup plate	a	1
	RWM02a	W-beam rail	a-e	1

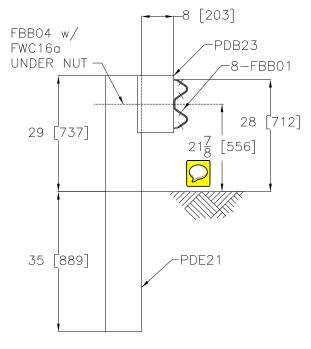
APPROVALS

FHWA Acceptant etter B-64, 2/14/00.

STRONG-POST W-BEAM GUARDRAIL

SGR04a-e		
SHEET NO.	DATE	
2 of 4	12/23/2014	





SGR04e

STRONG-POST W-BEAM GUARDRAIL

SGR04a-e

SHEET NO.	DATE:
3 of 4	12/23/2014

REFERENCES

M.E. Bronstad, J.E. Michie and J.D. Mayer, Jr., *Performance of Longitudinal Traffic Barriers*, National Cooperative Highway Research Program Report Number 289, Transportation Research Board, June, 1987.

C.E. Buth, W.L. Campise, L.I. Griffin, M.L. Love, and D.L. Sicking, *Performance Limits of Longitudinal Barriers*, Federal Highway Administration, Report No. FHWA-RD-86-153 (vol. 1), Washington, D.C., May 1986.

R.L. Stoughton, R.L. Stoker, E.F. Nordlin, *Dynamic Tests of Metal Beam Guardrail*, Transportation Research Record, Transportation Research Board, Washington, D.C., 1975.

Price, C.W., Faller, R.K., Rosenbaugh, S.K., Lechtenberg, K.A., and Winkelbauer, B.J. *Phase I Ponderosa Pine Round-Post Equivalency Study*, Final Report to Forest Products Laboratory U.S. Department of Agriculture – Forest Service and Arizona Log & Timberworks, Transportation Research Report No. TRP-03-287-13, Project No. 12-DG-11111169-033, Midwest Roadside Safety Facility, University of Nebraska-Lincoln, November 22, 2013.

Rosenbaugh, S.K., Faller, R.K., Winkelbauer, B.J., and Schmidt, T.L. *Phase II Ponderosa Pine Round-Post Equivalency Study*, Final Report to Forest Products Laboratory U.S. Department of Agriculture – Forest Service and Arizona Log & Timberworks, Transportation Research Report No. TRP-03-315-14, Project No. 13-JV-11111133-035, Midwest Roadside Safety Facility, University of Nebraska-Lincoln, In Progress.

CONTACT INFORMATION

Federal Highway Administration Office of Safety 400 Seventh Street, SW Washington, DC 20590 202-366-2288



STRONG-POST W-BEAM GUARDRAIL

SGR04a-e	
SHEET NO.	DATE
SHEET NO.	DATE
4 of 4	12/23/2014