

Na.	Bag Station	End Station	Length (f1)	Side of Road	End Treatment Location	
1	1819+50	1823+00	350	Right	1819+00 - 1819+50	1823+00 - 1823+50
2	1827+50	1831+00	350	Left	1827+00 - 1827+50	1831+00 - 1831+50
3	1857+50	1864+00	650	Right	1850+00 - 1857+50	1864+00 - 1864+50

Guardrail Schedule

General Notes:

- I. All hardware, posts and fasteners shall be hot-dip zinc coated galvanized after fabrication. No punching, drilling or cutting will be permitted after galvanizing.
- 2. Where conditions require, special post lengths in increments of 6 inches may be specified.
- 3. All fasteners, posts, and rail elements (i.e. FBB03, PWE01, RWM02b, etc.) shall conform to the latest edition and amendments of "A Guide to Standardized Highway Barrier Rail Hardware," a report prepared and approved by the AASHTO-AGC-ARTBA Joint Cooperative Committee, Subcommittee On New Highway Materials, Task Force 13 Report. Dimensions of fasteners, posts and rail elements have been converted from metric units into their present form.
- 4. The Recycled Plastic Block or Offset Block shall be approved by the CO.
- 5. After the guardrall posts are installed in the paved area, the Contractor shall grout around the guardrall post and seal all cracks in the paved area that was caused during the guardrall post installation. If required by the CO. The Contractor shall tamper the paved area around the guardrall post prior to grouting. The cost for this work shall not be paid for separately, but shall be considered incidental to the various guardrall items.
- When standards for the fill slope area cannot be met, a site specific, CO approved design may be used.
- 7. No section of incomplete guardrall footing and/or excavation shall be left unshielded at the end of each work day.
- Where full embedment of guardrail post is not possible, the contractor shall nest the beam(s). This work shall be incidental to the various contract items.

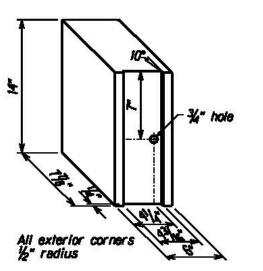


U.B DEPARTMENT OF TRANSPORTATION FEDERAL HIGHWAY ADMINISTRATION CENTRAL FEDERAL LANDS HIGHWAY DIVISION

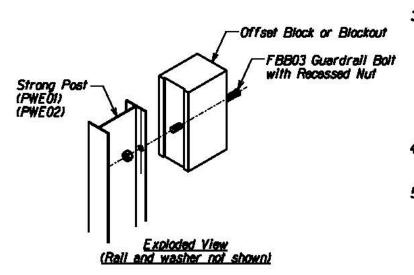


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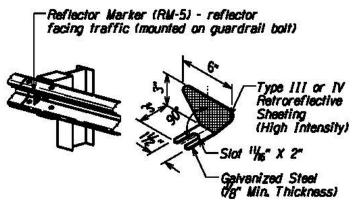
SHEET No. 1 OF 3



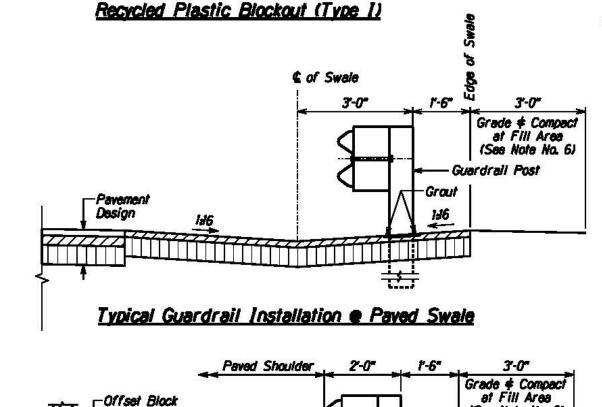
Recycled Polyethelyne Offset Block (Type II)



Steel Post and Block Detail



Reflector Marker (RM-5) Detail and Typical Installation



(See Note No. 6)

1:50

Guardrail Post

Grout

compaction.

Prior to installing HACP

level # remove vegetation and

compact existing ground to 95%

Slope Cont.

Elevation

Side

1/4"# Hole

2%

Top

or Blockout

Guardrail Post

(See Note No. 5)

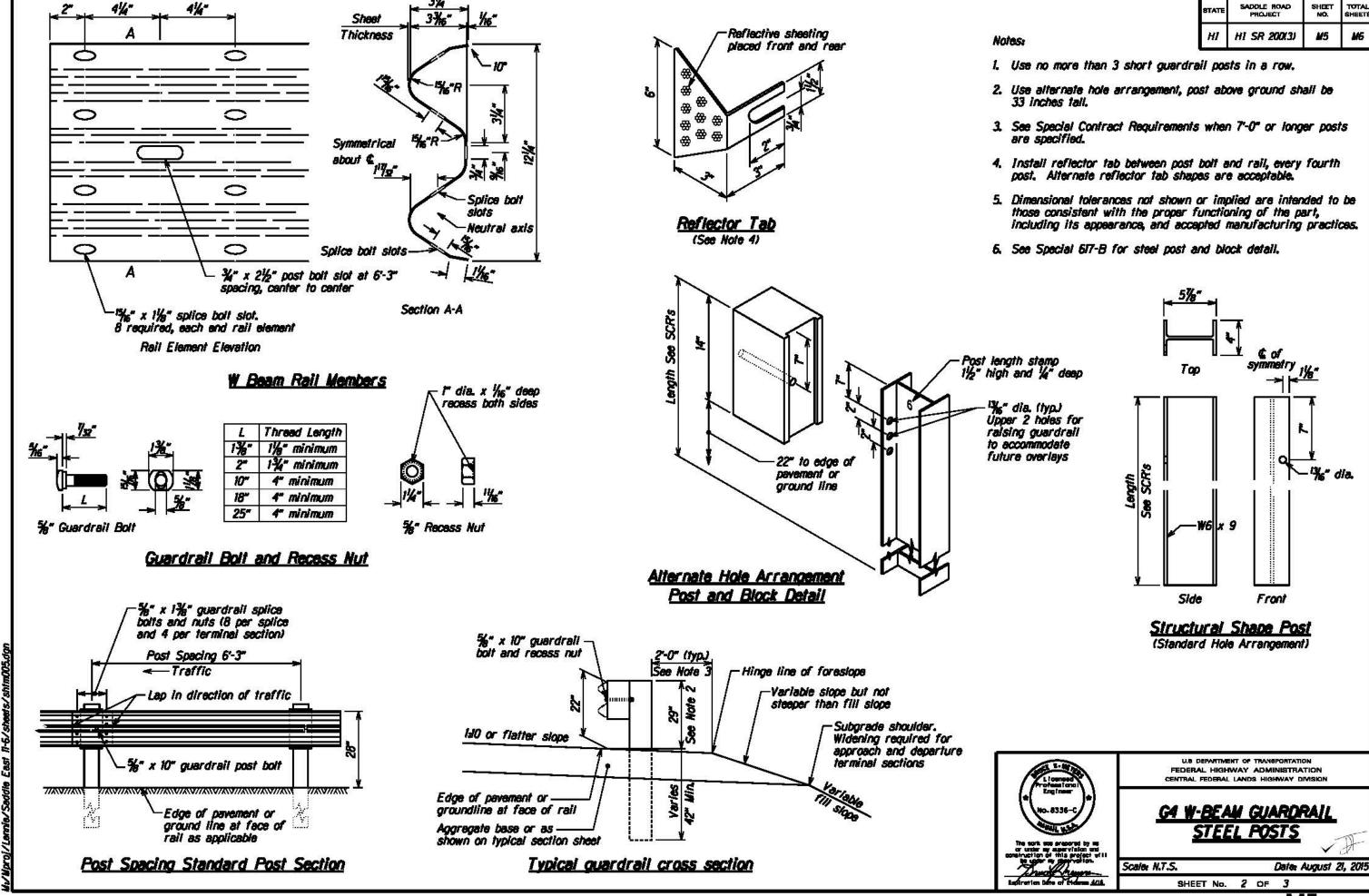
Plan

Graut Around Post -

Guardrail -

Pavement

Design



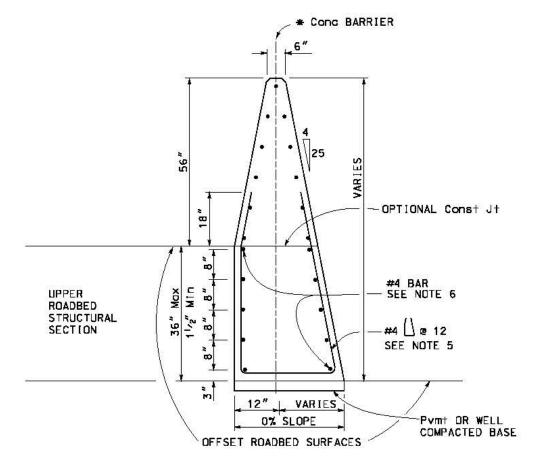
SHEET NO. M6 HI HI SR 200(3) 16 Notes: Details shown are to be used as a general guide since manufacturer's details may vary. Install a tangent G4 W-beam guardrall terminal that meets NCHRP-350 or MASH requirements per manufacturer's recommendations. Ensure that terminal meets appropriate test level for the project. 2. Install terminal at a 1/25 taper or flatter, to position the end farther away from the edge of the shoulder, or use a taper per manufacturer's recommendations. 3. See manufacturer's drawings for other details. Standard 10" (min.) Taper Length post section Edge of widened embankment Length of Need **~**]∉ 6 flatter Tangent line projected from the face of the last two post blocks in Plan the standard post section. Pay limits Pay limits terminal section type tangent Guardrall system G4 Install a reflectorized object marker according to manufacturer's recommendations Elevation Test Level (ft) U.S DEPARTMENT OF TRANSPORTATION FEDERAL HIGHWAY ADMINISTRATION 2 (< 45 mph) 25 CENTRAL FEDERAL LANDS HIGHWAY DIVISION 3 (> 45 mph) 37.5

SHEET No. 3 OF 3

Date: August 21, 2015

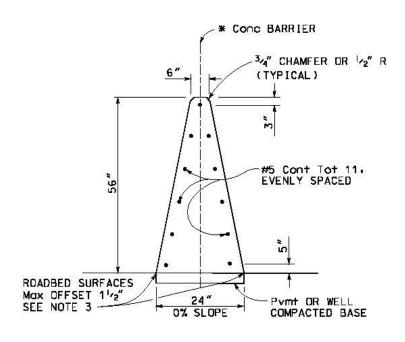
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STATE	SADDLE ROAD PROJECT	SHEET NO.	TOTAL SHEETS
нІ	HI SR 200(3)	M7	MIO



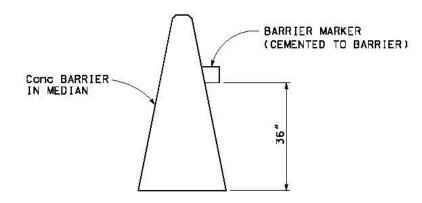
CONCRETE BARRIER TYPE 60GC

Details similar to Type 60G except as noted. 36" roadbed surfaces offset shown.



CONCRETE BARRIER TYPE 60G

(Monolithic concrete glare screen/barrier)



CONCRETE BARRIER TYPE 60G DELINEATION

See Note 4

BRIDGE DECK

Typ

#5

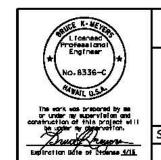
DOWELS @ 24

CONCRETE BARRIER TYPE 60GA

Details similar to Type 60G except as noted.

NOTES:

- See Standard Plan A76E for details of Concrete Barrier Type 60G end anchors, connection to structures and transitions to Concrete Barrier Type 60.
- See Standard Plan A76F for Concrete Barrier Type 60G transitions at bridge column and sign pedestals.
- 3. Where roadbed offset is greater than $1^{1}/_{2}$ ", see Concrete Barrier Type 60GC.
- Barrier delineation to be used when required by the Special Provisions.
- 5. Reinforcing stirrup not required for offsets less than 1'-0".
- 6. For roadbed surfaces offset greater than 1½" and less than or equal to 3", no reinforcement required. For roadbed surfaces offset greater than 3" and less than or equal to 8", use two #4 Reinf at 3" above the lower roadbed surface. For roadbed surfaces offset greater than 8" and less than or equal to 12", use two #4 Reinf at 3" above the lower roadbed surface and two #4 Reinf at 8" above the lower roadbed surface. For roadbed surfaces offset greater than 12" and less than or equal to 36", use two #4 Reinf at 3" above the lower roadbed surface and two #4 Reinf at every 8" increment vertical spacing above the first two #4 Reinf.



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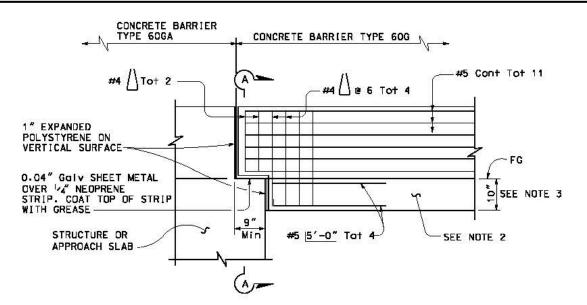
SPECIAL A76D CONCRETE BARRIER TYPE 60G

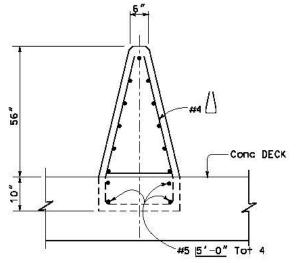
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Date: May 18, 2017

SHEET No. 1 OF 1

STATE	SADDLE ROAD PROJECT	SHEET NO.	TOTAL SHEETS
нІ	HI SR 200(3)	MB	MIO





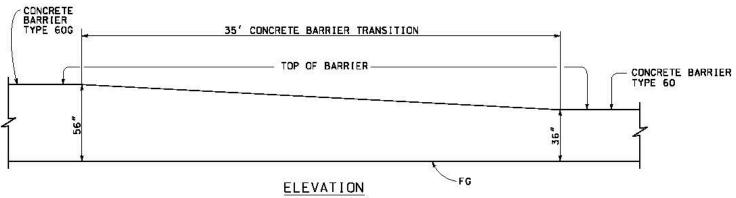
SECTION A-A

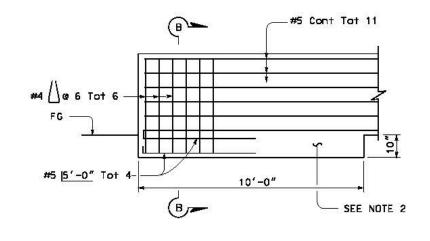
NOTES:

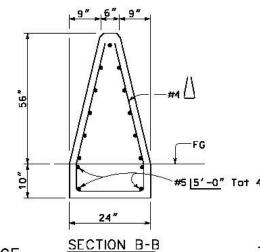
- 1. See Standard Plan A76D for Concrete Barrier Type 60G and Type 60GA.
- 2. Footing monolithic or doweled with 2-#8 x 6" @ 2'-0". The footing is required at concrete barrier ends and at interruptions in concrete barrier.
- 3. 10" concrete barrier footing extends 10" back from structure.
- 4. See Standard Plan A781 for transition to Thrie Beam Barrier.

CONCRETE BARRIER TYPE 60G CONNECTION TO STRUCTURE







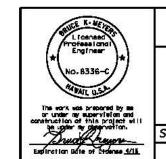


TRANSITION CONCRETE BARRIER TYPE 60G TO CONCRETE BARRIER TYPE 60 CONCRETE BARRIER TYPE 60G 42' CONCRETE BARRIER TRANSITION CONCRETE BARRIER TOP OF BARRIER TYPE 60S

ELEVATION

TRANSITION CONCRETE BARRIER TYPE 60G TO CONCRETE BARRIER TYPE 60S

CONCRETE BARRIER TYPE 60G END ANCHORAGE



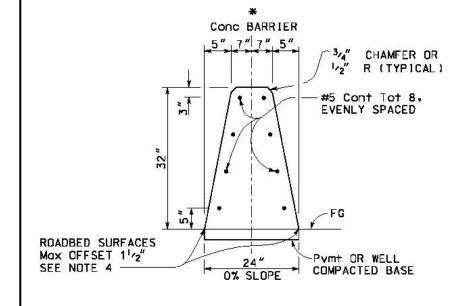
FEDERAL HIGHWAY ADMINISTRATION CENTRAL FEDERAL LANDS HIGHWAY DIVISION

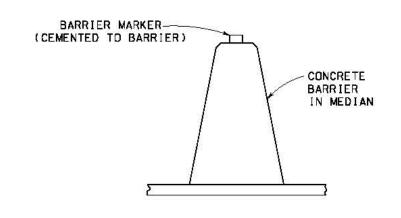
SPECIAL A76E CONCRETE BARRIER TYPE 60G (TRANSITION)

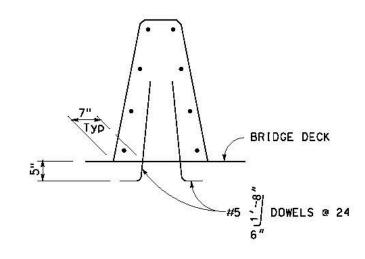
Scale: N.T.S. Date: May 18, 2017

SHEET No. 1 OF 1

STATE	SADDLE ROAD PROJECT	SHEET NO.	TOTAL SHEETS
нІ	HI SR 200(3)	M9	MIO







CONCRETE BARRIER TYPE 60S

CONCRETE BARRIER TYPE 60S DELINEATION
See Note 5

CONCRETE BARRIER TYPE 60SA

Details similar to Type 60S except as noted.

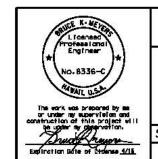
Conc BARRIER OPTIONAL Const Jt #4 BAR Max M. M. M. UPPER SEE NOTE 7 ROADBED STRUCTURAL SECTION #4 L @ 12 SEE NOTE 6 12" VARIES Pymt OR WELL 0% SLOPE COMPACTED BASE OFFSET ROADBED SURFACES

CONCRETE BARRIER TYPE 60SC

Details similar to Type 60S except as noted. Use concrete barrier end anchor when necessary. 36" roadbed surfaces offset shown.

NOTES:

- See Standard Plan A76H for details of Concrete Barrier Type 60S end anchors, connection to structures and transitions to Concrete Barrier Type 50.
- 2. See Standard Plan A76I for Concrete Barrier Type 60S transitions at bridge column and sign pedestals.
- Where glare screen is required on top of concrete barrier, use Concrete Barrier Type 60G.
- 4. Where roadbed offset is greater than 11/2" see Concrete Barrier Type 60SC.
- 5. Barrier delineation to be used when required by the Special Provisions.
- 6. Reinforcing stirrup not required for roadbed offsets less than 1'-0".
- 7. For roadbed surfaces offset greater than $1\frac{1}{2}$ " and less than or equal to 3", no reinforcement required. For roadbed surfaces offset greater than 3" and less than or equal to 8", use two #4 Reinf at 3" above the lower roadbed surface. For roadbed surfaces offset greater than 8" and less than or equal to 12", use two #4 Reinf at 3" above the lower roadbed surface and two #4 Reinf at 8" above the lower roadbed surface. For roadbed surfaces offset greater than 12" and less than or equal to 36", use two #4 Reinf at 3" above the lower roadbed surface and two #4 Reinf at every 8" increment vertical spacing above the first two #4 Reinf.



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SPECIAL A76G CONCRETE BARRIER TYPE 60S

Scale: N.T.S.

Date: May 18, 2017

SHEET No. 1 OF

M9

Intol/I movie/Sandle Fact 11-6/sheets/shtm009.du

CM0009 Page 10 of 13 SADDLE ROAD PROJECT 15'-0" CONCRETE BARRIER TRANSITION MIO MIO HI SR 200(3) CONCRETE BARRIER CONCRETE BARRIER TOP OF BARRIER TYPE 60S TYPE 50 NOTES: ELEVATION 1. See Standard Plan A76G for Concrete Barrier Type 605 and Type 60SA. 2. Footing monolithic or doweled with 2-#8 x 8" @ 2'-0". The footing is Const Jt required at concrete barrier ends and at interruptions in concrete barrier. 15'-0" CONCRETE BARRIER TRANSITION 3. 10" concrete barrier footing extends 10'-0" back from structure. CONCRETE BARRIER 4. See Standard Plan A781 for transition to Thrie Beam Barrier. CONCRETE BARRIER TYPE 60S EDGE OF BARRIER BASE TYPE 50 * BARRIER #5 Cont Tot 8 PLAN TRANSITION TYPE 60S CONCRETE BARRIER TO TYPE 50 CONCRETE BARRIER #4 L@ 6 Tot 6 #5 5'-0" Tot 4 101 5'-0" Tot 4 - SEE NOTE 2 24" CONCRETE BARRIER TYPE 60SA SECTION B-B CONCRETE BARRIER TYPE 60S CONCRETE BARRIER TYPE 60S END ANCHORAGE #4 십 To+ 2 -#5 Cont Tot 8 1" EXPANDED POLYSTYRENE ON VERTICAL SURFACE -0.04" GOLV SHEET METAL OVER 14" NEOPRENE STRIP. SEE NOTE 3 COAT TOP OF STRIP WITH Conc DECK GREASE -U.S DEPARTMENT OF TRANSPORTATION FEDERAL HIGHWAY ADMINISTRATION STRUCTURE OR Min #5 [5'-0" Tot 4 CENTRAL FEDERAL LANDS HIGHWAY DIVISION SEE NOTE 2 APPROACH SLAB SPECIAL A76H CONCRETE BARRIERY TYPE 60S (TRANSITION) CONCRETE BARRIER TYPE 60S CONNECTION TO STRUCTURE #5 [5'-0" Tot 4 SECTION A-A Scale: N.T.S. Date: May 18, 2017

SHEET No. 1 OF 1