

Highway Design Manual (Volume I)

List of Major Revisions to Chapter 11

1. Introduction

- a. Moved all special plan elements to a new heading, “Special Plan Elements”, see below.

2. Safety

- a. Section removed.

3. Special Plan Elements

- a. New section, broken out from the previous “Introduction” and expanded.

4. ADA Compliance and Accessible Features

- a. New section, broken out from “Pedestrian, bicycle and non-highway user facilities” and updated to reflect most up to date guidance.

5. Active Transportation and Non-Highway Users

- a. New section, broken out from “Roadside Improvements” and expanded.
- b. Introduced the term “Active Transportation”
- c. Includes subcategories for:
 - i. Sidewalk Surfacing Materials
 - ii. Crosswalks
 - iii. Detectable Warning Surfaces
 - iv. Recreational Trails

6. Roadside Barrier

- a. Renamed from “Barriers”.
- b. Updated to reflect most up to date crash tests, and terminal units.
- c. Now includes subcategories for:
 - i. Clear Zone
 - ii. Zone of Intrusion
 - iii. Roadway Design Considerations
 - iv. Test Levels and Performance Standards
 - v. FHWA Requirements on the NHS (MASH compliant Hardware)
 - vi. Guardrail and Cable Rail (renamed from “Guardrail”)
 - vii. Terminal Units (End Treatment Sections)

- viii. Platforms
 - ix. Transition Sections
 - x. Bridge Rail
 - xi. Concrete Barrier
 - xii. Median Barrier
 - xiii. Impact Attenuation Devices/ Crash Cushions (renamed from “Impact Attenuators”)
 - xiv. Redirective, Non-Redirective, Gating and Non-Gating
 - xv. Temporary Traffic Control Barrier with a new subcategory of Portable Concrete Barrier
 - xvi. Guardrail Note Format with samples
- d. Glare Screens moved to “Roadway Improvements” section, see below.

7. Roadway Improvements

- a. New section.
- b. Glare Screens section moved from “Barrier” section.
- c. Added a section for Rumble Strips/Rumble Stripes and Transverse Rumble Strips.

8. Traffic Operations

- a. Added subcategories for:
 - i. Street Lighting (renamed from “Lighting”)
 - ii. Traffic Control Devices
 - iii. Signs and Pavement Markings (renamed from “Signs”)
 - iv. Signals
 - v. Intelligent Transportation systems (ITS)
 - vi. Road Weather Information System (RWIS)

9. Maintenance of Traffic

- a. Added subcategories for:
 - i. Traffic Control Committee Review and Level of Significance
 - ii. Transportation Management Plan (TMP)
 - iii. Traffic Control Plan (TCP)
 - iv. Incident Management Plan (IMP)
 - v. Active Transportation and Non-Highway User Facilities During Construction
 - vi. Oversize, Overweight, Overlength or Overheight Vehicles

- vii. New England Transportation Consortium (NETC) Route
- viii. Speed Limits
- ix. Construction Signs and Warning Devices (CSWD) (renamed from Construction Signs)
- x. Smart Work Zones/ITS
- xi. Haul Roads and Temporary Roads (renamed from “Haul Roads”)
- xii. Median Crossover Use
- xiii. Interstate and Turnpike Access Points
- xiv. Detours
- xv. Diversions

10. Agreements

- a. New section.
- b. Includes subcategories for:
 - i. Municipal Work Zone Agreement (MWZA)
 - ii. Memorandum of Understanding (MOU) and Memorandum of Agreement (MOA)

11. Roadside Improvements

- a. Moved all pedestrian, bicycle and non-highway user facilities to a new heading, “Active Transportation and Non-Highway Users”, see above.
- b. Added subcategories for:
 - i. Mailboxes
 - ii. Rest Areas and Scenic Overlooks (renamed from “Rest Areas”)
 - iii. Commuter Parking Lots (Park-and-Rides) renamed from Commuter Parking Lots
 - iv. Fencing

12. Environmental Elements

- a. Renamed the subcategory “Noise Barriers” to “Noise Impact and Abatement Assessment”
 - i. Includes reference to most up to date noise policy
- b. Added subcategories for:
 - i. Invasive Plants
 - ii. Stone Wall Policy
 - iii. Municipal Separate Storm Sewer Systems (MS4)
 - iv. Limited Reuse Soils (LRS)

- v. Per- and Polyfluoroalkyl Substances (PFAS)
- vi. Floodplain and Regulatory Floodway

13. References

- a. References added to the end of the chapter.

14. Appendices

- a. All new appendices.