REVISION DATE 01/05/17

26-JAN-2017 09:09

Sample Plan

TRAFFIC BARRIER DETAILS --------- NARRATIVE

References:

Design Scene: Chapter 14 - Guardrail and Barriers

Technical Memorandum: No. 01-24-TS-09:
W-Beam Bull Nose

No. 15-08-TS-04:
Design Guidelines for High-Tension Cable Barriers (HTCB)

No. 16-09-TS-04:
Implementation of MnDOT Single Slope Median Barrier design
and MnDOT Type 31 Guardrail Design

Road Design Manual: Chapter 10-7 and 10-8

Standard Plates: 8300 series

Standard Plans:
5-297.601 Guardrail Installations at Medians and End Treatments (3 Sheets)
5-297.603 W-Beam Transition to Concrete F-Shape Safety Rail
with Approach Curb (Steel Post)
5-297.605 W-Beam Transition to Concrete F-Shape Safety Rail
With Approach Curb (Wood Post)
5-297.606 Upgraded W-Beam Transition to Concrete J-Shape Safety Rail
with Approach Curb (Wood Post)
5-297.607 W-Beam Transition to Concrete J-Shape Safety Rail
with Approach Curb (Wood Post)
5-297.609 W-Beam Transition to Concrete End Post
With or Without Approach Curb (Wood Post)(2 Sheets)
5-297.611 Thrie Beam Bullnose Guardrail for Medians (3 Sheets)
5-297.614 W-Beam to Thrie Beam Transition
5-297.618 W-Beam Transition to Concrete J-Shape Safety Rail
with Approach Curb (Steel Post)
5-297.619 W-Beam Transition to Concrete End Post
With or Without Approach Curb (Steel Post)(2 Sheets)
5-297.682 Upgraded W-Beam Transition to Pier Columns Without Approach Curb
Without Approach Curb (Wood Post)
5-297.684 W-Beam Transition to Pier Columns Without Approach Curb
(Steel Post)(2 Sheets)
5-297.686 Box Beam Transition to Concrete F-Shape Barrier (3 Sheets)
5-297.688 High Tension Cable Barrier Median Placement and Overlap
5-297.690 Traffic Barrier Type 31 Assembly Details (2 Sheets)
5-297.692 Traffic Barrier Type 31 End Anchorage Assembly Details (2 Sheets)
5-297.694 Approach Guardrail Transition (AGT) Type 31 (5 Sheets)
5-297.695 Steel Plate Beam Guardrail Details Asymmetrical
W-Beam/Thrie Beam Transition
5-297.696 Traffic Barrier Type 31 Low Fill/Long Span - Omitted Post Details

Spec. Book: 2554

Miscellaneous: Roadside Design Guide, latest version

pw: \\Documents\OTS\DesignStandards\Design Details\
Standards Office Details

pw: \\Documents\Projects\DM_ROS\Non_project\Design\DesignCoordinator\Details\
Metro Approved End Treatments

General Information:

Examples of Traffic Barrier Details include: guardrail post seat locations, guardrail radii, removal of special inplace guardrail, transition of guardrail types, etc.

Traffic Barrier Details should be developed only for non-standard applications.

Sample Plan

TRAFFIC BARRIER DETAILS --------- CHECKLIST

____1. Note any incidental work applying to the details

____2. Bar Scale

____3. Roadways Labeled

____4. North Arrow, Stationing, if applicable

____5. Cross references to other sheets (as applicable)

____6. Drawn by: and Checked by: Initials and Engineer's signature

TRAFFIC BARRIER DETAILS NARRATIVE AND CHECKLIST

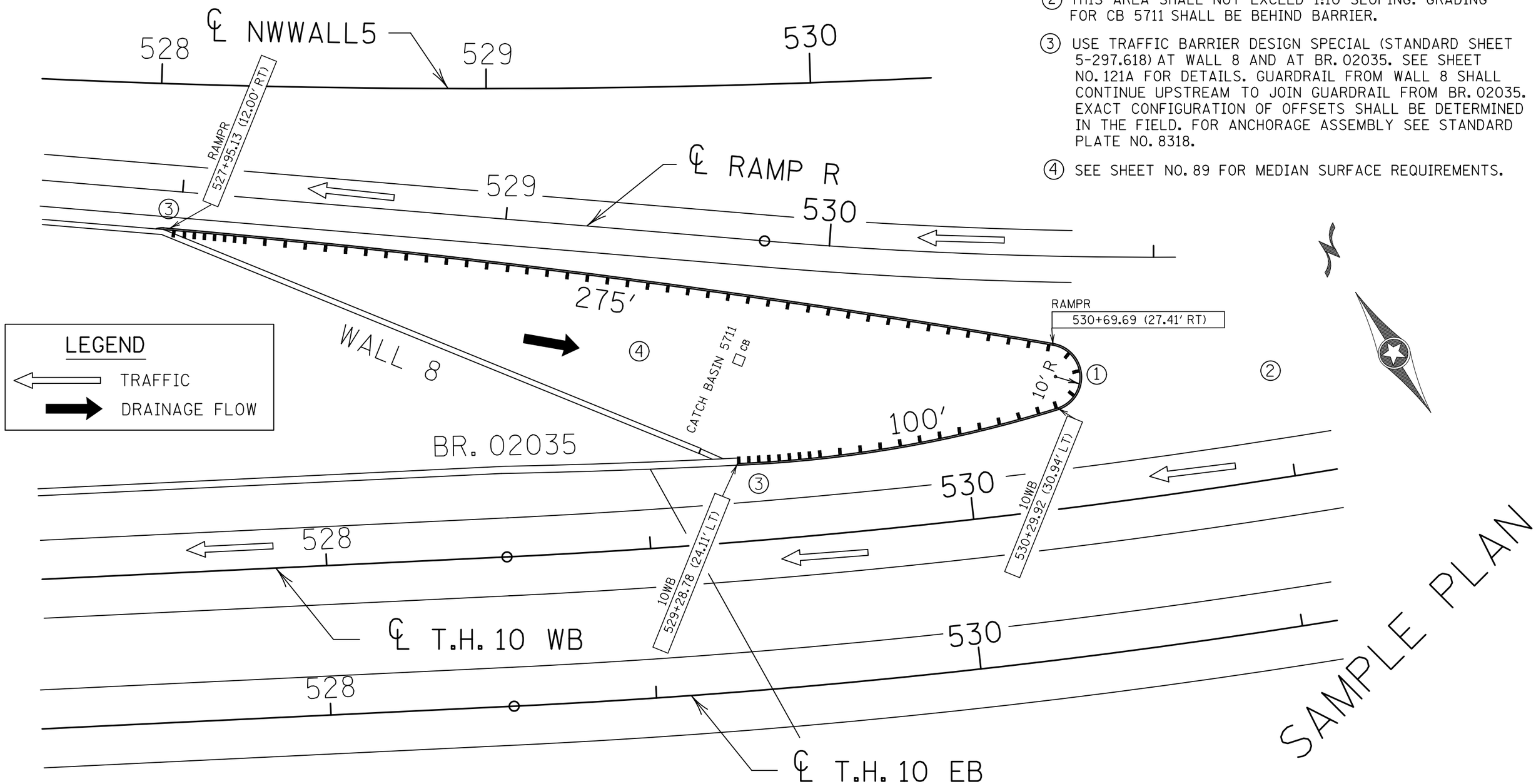
GUARDRAIL DETAIL

SCALE 30'

THIS PLAN IS TO SHOW CONNECTION OF GUARDRAIL PROTECTION FROM WALL 8 AND FROM BR. 02035. GUARDRAIL ALSO PROTECTS SLOPES THAT WILL BE REQUIRED FOR CB 5711.

FOR GUARDRAIL GENERAL NOTES SEE SHEET NO. 439.

1. SEE BULLNOSE DETAIL ON SHEET NO. 25 (STANDARD PLAN SHEET 5-297.611).
2. THIS AREA SHALL NOT EXCEED 1:10 SLOPING. GRADING FOR CB 5711 SHALL BE BEHIND BARRIER.
3. USE TRAFFIC BARRIER DESIGN SPECIAL (STANDARD SHEET 5-297.618) AT WALL 8 AND AT BR. 02035. SEE SHEET NO. 121A FOR DETAILS. GUARDRAIL FROM WALL 8 SHALL CONTINUE UPSTREAM TO JOIN GUARDRAIL FROM BR. 02035. EXACT CONFIGURATION OF OFFSETS SHALL BE DETERMINED IN THE FIELD. FOR ANCHORAGE ASSEMBLY SEE STANDARD PLATE NO. 8318.
4. SEE SHEET NO. 89 FOR MEDIAN SURFACE REQUIREMENTS.



LEGEND

- TRAFFIC
- DRAINAGE FLOW

REVISION DATE 01/05/17
PLOTTED/REVISED: 26-JAN-2017 09:0
DISTRICT *: METRO
IPLOT NAME: sptrfbard1
FILENAME: Projects/DM_ROS/Non_Project/Design/SamplePlan/English/trfbard1.dgn

DRAWN BY: NJS	CHECKED BY: VKR	CERTIFIED BY Will D. Zine LICENSED PROFESSIONAL ENGINEER LIC. NO. 00000 DATE 05/10/12	TRAFFIC BARRIER DETAILS
			STATE PROJ. NO. 0000-00 (T.H. 00) SHEET NO. 82 OF 84 SHEETS