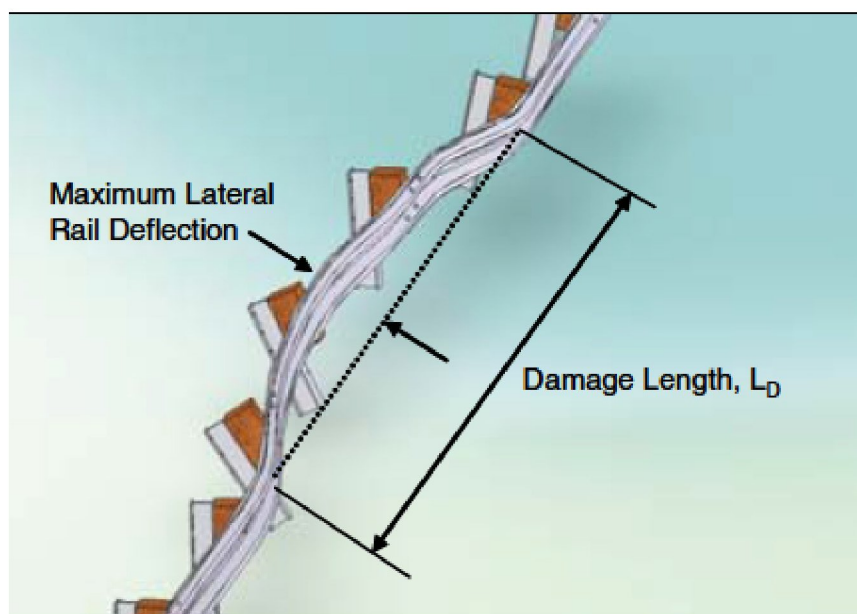
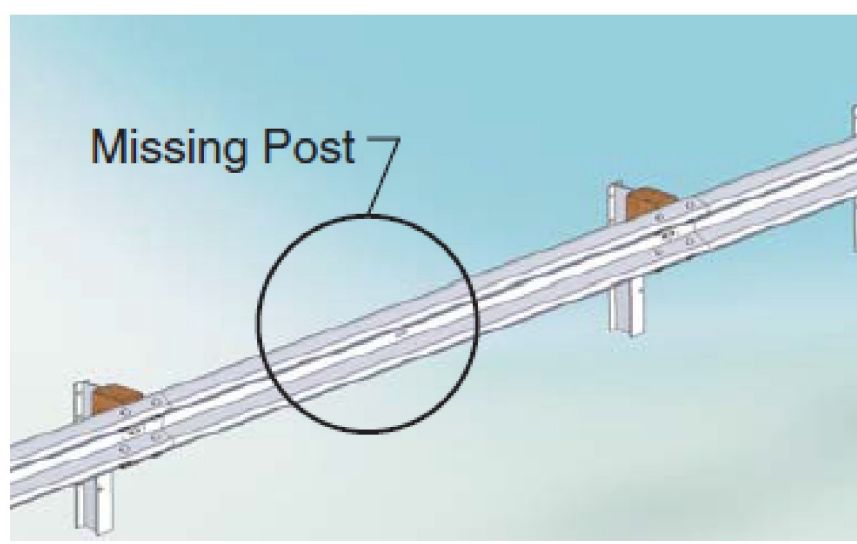
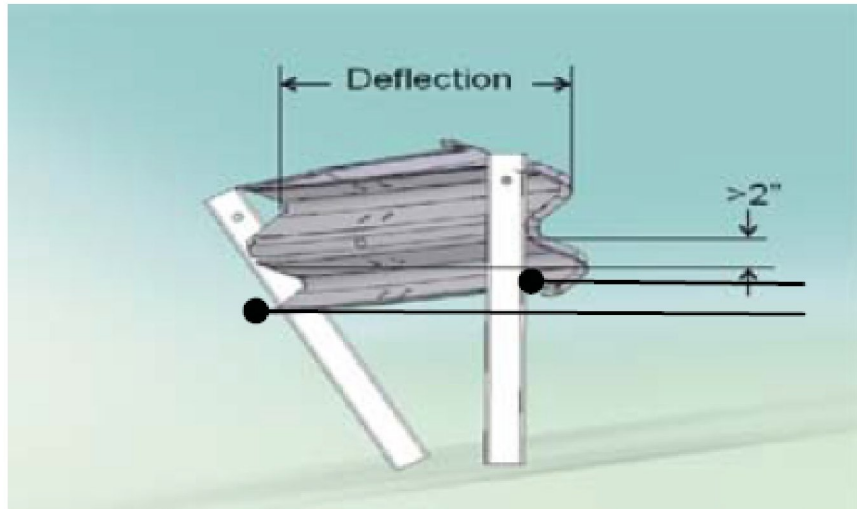
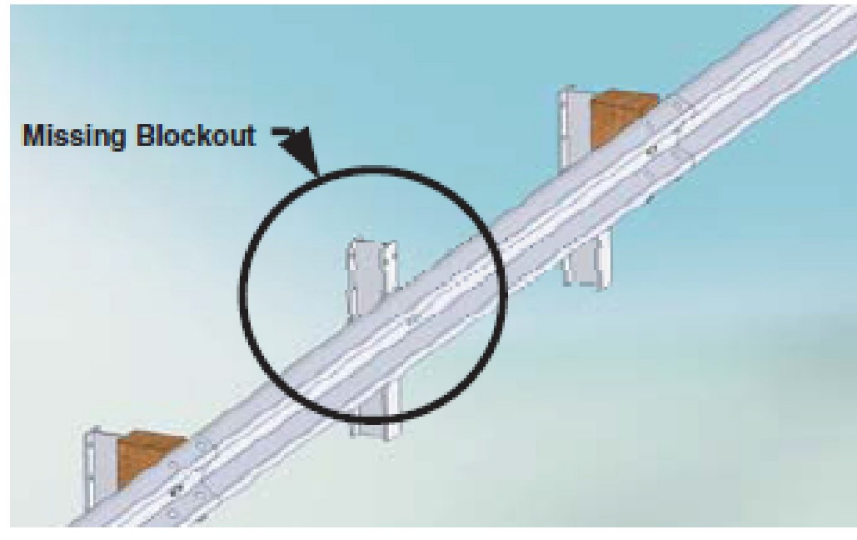
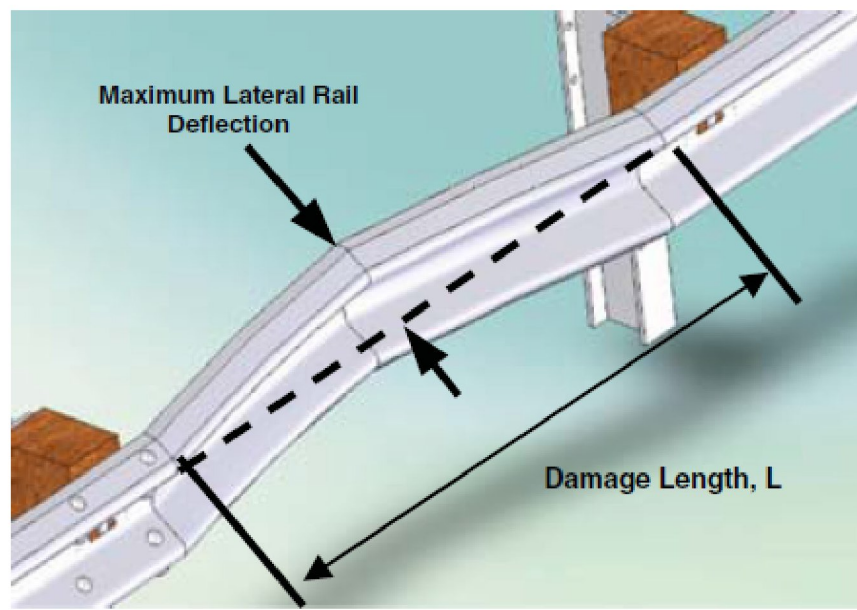
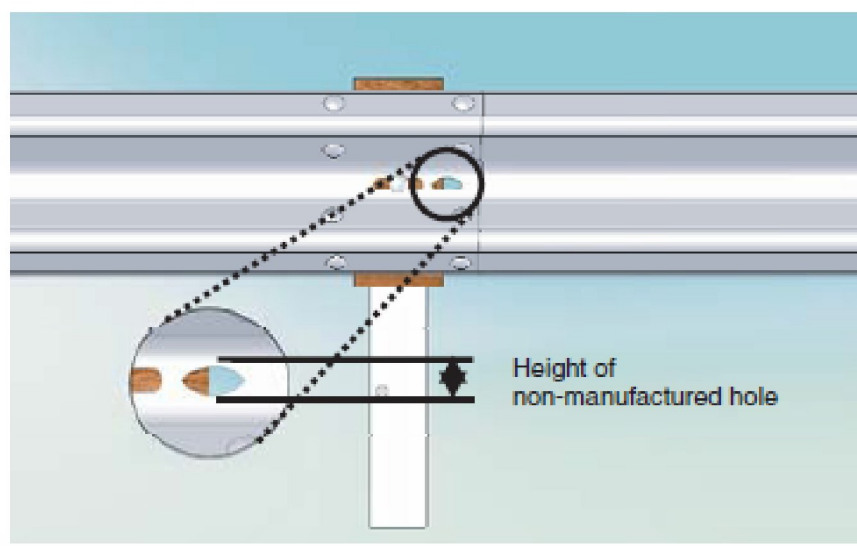
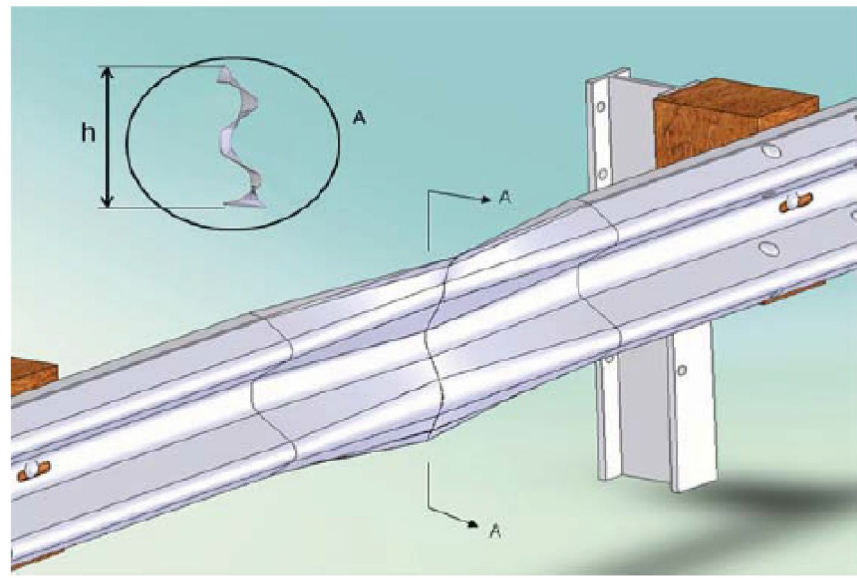
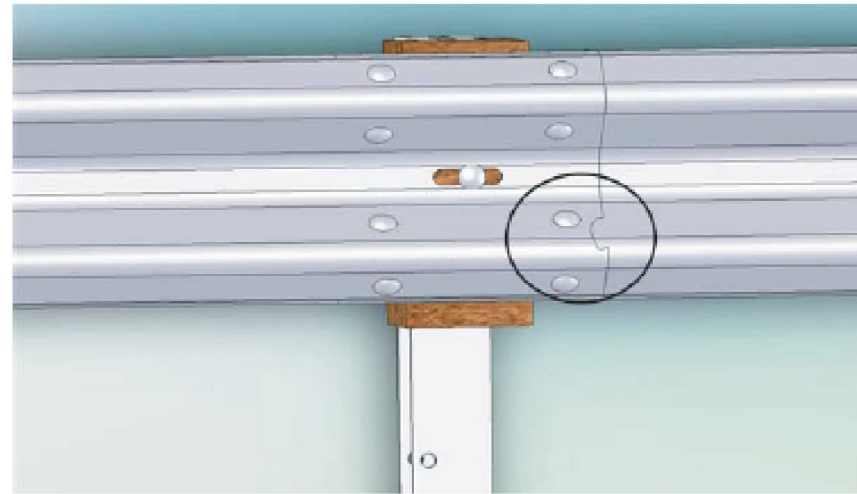
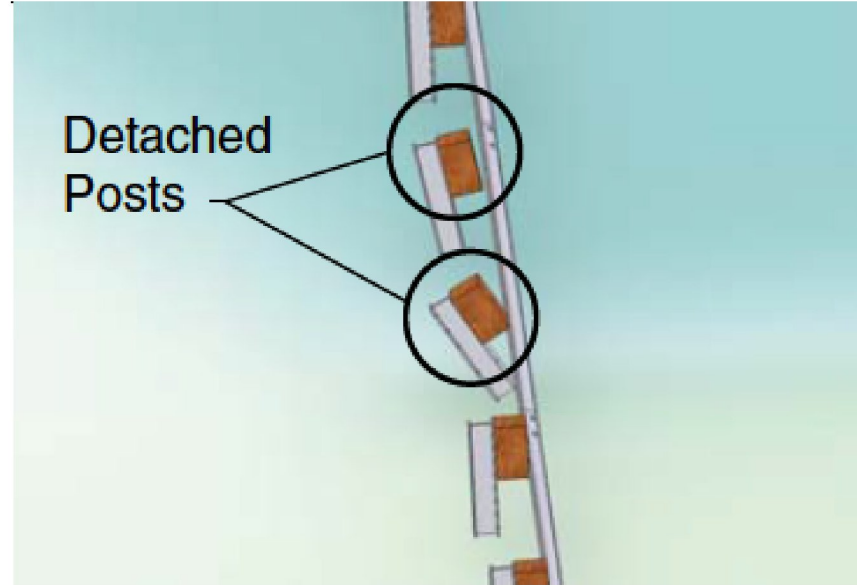


GUARDRAIL REPLACEMENT GUIDELINES

DAMAGE TYPE	REPAIR THRESHOLD	RELATIVE PRIORITY	MEASUREMENT	DAMAGE TYPE	REPAIR THRESHOLD	RELATIVE PRIORITY	MEASUREMENT	
POST AND RAIL DEFLECTION	ONE OR MORE OF THE FOLLOWING THRESHOLDS: <ul style="list-style-type: none"> MORE THAN 9 IN. LATERAL DEFLECTION ANYWHERE OVER A 25 FT LENGTH OF RAILTOP OF RAIL HEIGHT 2 OR MORE INCHES LOWER THAN ORIGINAL TOP OF RAIL HEIGHT 	HIGH		POST AND RAIL DEFLECTION	ONE OR MORE POSTS <ul style="list-style-type: none"> MISSING CRACKED ACROSS THE GRAIN BROKEN ROTTED WITH METAL TEARS 	HIGH		
	6-9 IN. LATERAL DEFLECTION ANYWHERE OVER A 25-FT LENGTH OF RAIL	MEDIUM			MISSING BLOCKOUT	ANY BLOCKOUTS <ul style="list-style-type: none"> MISSING CRACKED ACROSS THE GRAIN CRACKED FROM TOP OR BOTTOM OF BLOCK OUT ROTTED 	MEDIUM	
	LESS THAN 6 IN. OF LATERAL DEFLECTION OVER A 25-FT LENGTH OF RAIL	LOW	(WEAK POST W-BEAM SHOWN ONLY FOR CLARITY. EACH MEASUREMENT TAKE AT THE RAIL'S MIDDLE FOLD)			TWISTED BLOCKOUTS	ANY MISALIGNED BLOCKOUTS, TOP EDGE OF BLOCK 6 IN. OR MORE FROM BOTTOM EDGE NOTE: REPAIRS OF TWISTED BLOCKOUT ARE RELATIVELY QUICK AND INEXPENSIVE	LOW
RAIL DEFLECTION ONLY	6-9 IN. OF LATERAL DEFLECTION BETWEEN ANY TWO ADJACENT POSTS. NOTE: FOR DEFLECTION OVER 9 IN., USE POST/RAIL DEFLECTION GUIDELINES	MEDIUM		DAMAGE AT A RAIL SPLICE	MORE THAN 1 SPLICE BOLT: <ul style="list-style-type: none"> MISSING DAMAGED VISIBLY MISSING ANY UNDERLYING RAIL TORN THROUGH RAIL 		HIGH	
	LESS THAN 6 IN. OF LATERAL DEFLECTION BETWEEN ANY TWO ADJACENT POSTS	LOW			1 SPLICE BOLT: <ul style="list-style-type: none"> MISSING DAMAGED VISIBLY MISSING ANY UNDERLYING RAIL TORN THROUGH RAIL 	MEDIUM		
RAIL FLATTENING	ONE OR MORE OF THE FOLLOWING THRESHOLDS: <ul style="list-style-type: none"> RAIL CROSS SECTION HEIGHT MORE THAN 17 IN. (SUCH AS MAY OCCUR IF RAIL IS FLATTENED) RAIL CROSS SECTION HEIGHT LESS THAN 9 IN. (SUCH AS A DENT TO TOP EDGE) 	MEDIUM			<ul style="list-style-type: none"> MORE THAN 2 HOLES LESS THAN 1 IN. HEIGHT IN A 12.5-FT LENGTH OF RAIL ANY HOLES GREATER THAN 1 IN. IN HEIGHT ANY HOLE WHICH INTERSECTS EITHER THE TOP OR BOTTOM EDGE OF THE RAIL. 	HIGH		
	RAIL CROSS SECTION HEIGHT BETWEEN 9 AND 17 IN.	LOW						MEDIUM
POSTS SEPARATED FROM RAIL	<ul style="list-style-type: none"> 2 OR MORE POSTS WITH BLOCKOUT ATTACHED WITH POST/RAIL SEPARATION LESS THAN 3 IN. 1 OR MORE POSTS WITH POST/RAIL SEPARATION WICH EXCEEDS 3 IN. 	MEDIUM			1-2 HOLES LESS TH AN 1 IN. IN HEIGHT IN A 12.5-FT LENGTH OF RAIL	MEDIUM		
	<ul style="list-style-type: none"> 1 POST, WITH BLOCKOUT ATTACHED, WIT POST/RAIL SEPARATION LESS THAN 3 IN. 	LOW						

NOTES:

- THESE ARE GUIDELINES FOR THE EVALUATION OF EXISTING GUARDRAIL. THESE ARE GUIDELINES ONLY AND THE CONTRACTOR SHALL REPLACE GUARDAIL AS DIRECTED BY THE ENGINEER.
- GUIDELINES ARE FROM THE NATIONAL COOPERATIVE HIGHWAY RESEARCH PROGRAM (NCHRP) REPORT 656, "CRITERIA FOR RESTORATION OF LONGITUDINAL BARRIERS", COPYRIGHT 2010.

PROJECT NAME:	READING-WINDSOR, WEATHERSFIELD-READING & WEATHERSFIELD-WINDSOR
PROJECT NUMBER:	STP FPAV(II), STP FPAV(12) & STP FPAV(13)
FILE NAME: COMP. STP FPAV(II),(12) & (13).dgn	PLOT DATE: 04-APR-2018
PROJECT LEADER: B. KIPP	DRAWN BY: N. PAPPAS
DESIGNED BY: L. BULLOCK/N. PAPPAS	CHECKED BY: B. KIPP
COMPOSITE GUARDRAIL DETAIL SHEET 1	SHEET 6 OF 53