

# U.S. 276 Guardrail Installation/Replacement Project

(from Waynesville Town Limits to NC 110 / NC 215)

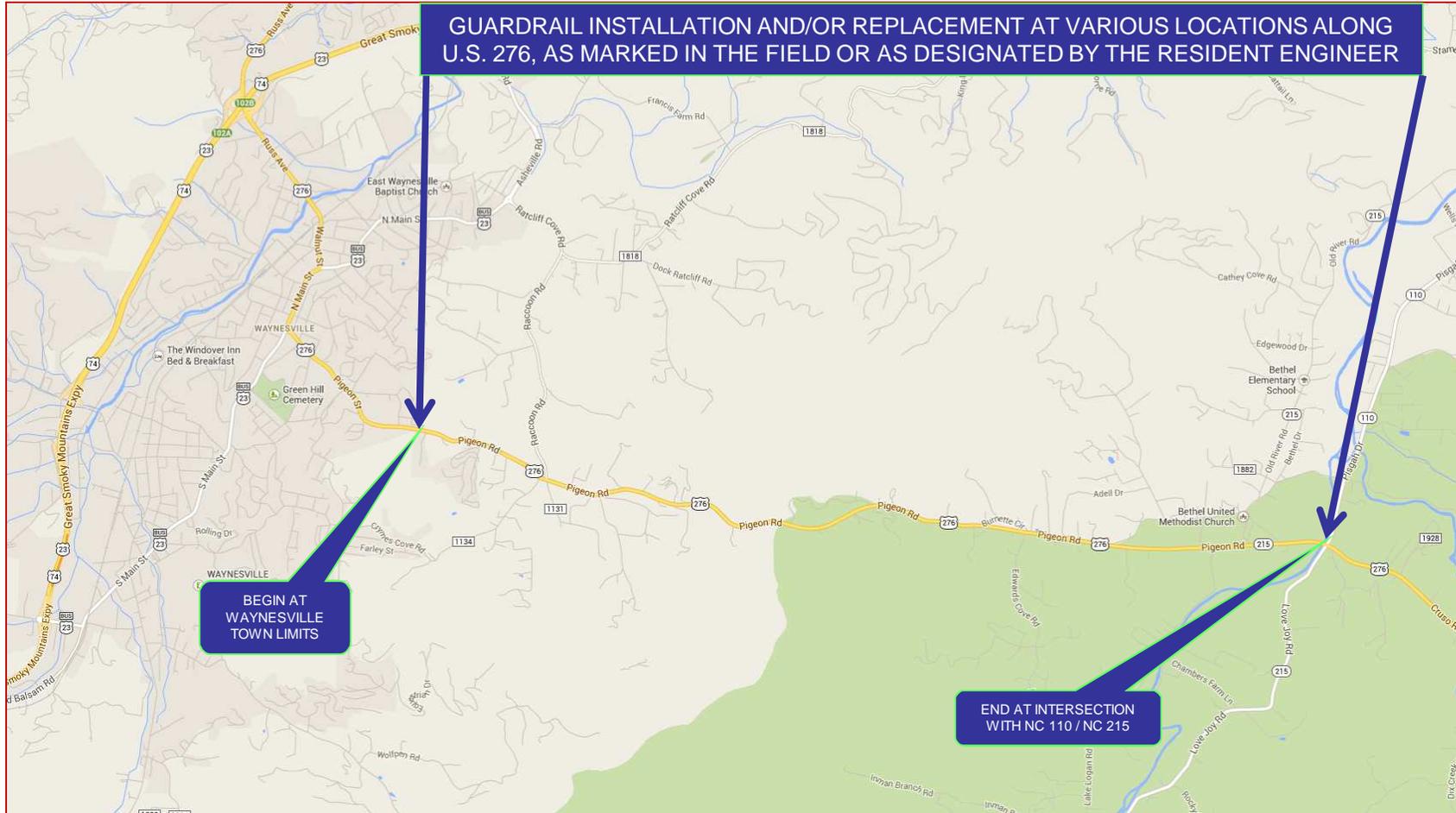
Haywood County

Vicinity Map

N

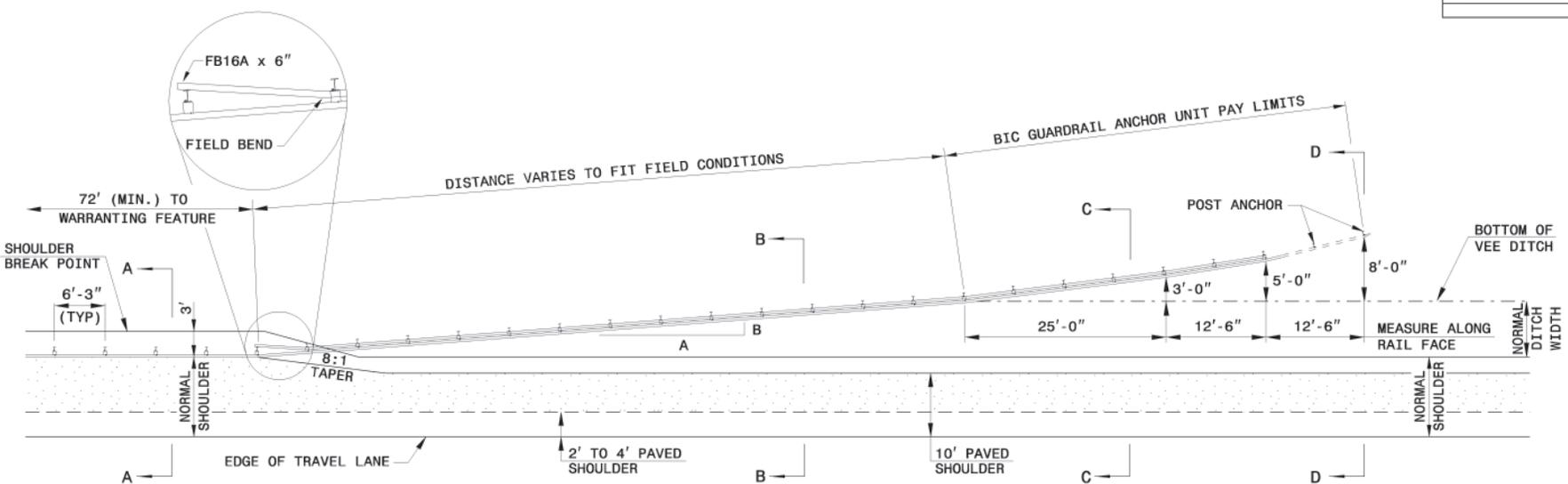


N.T.S.



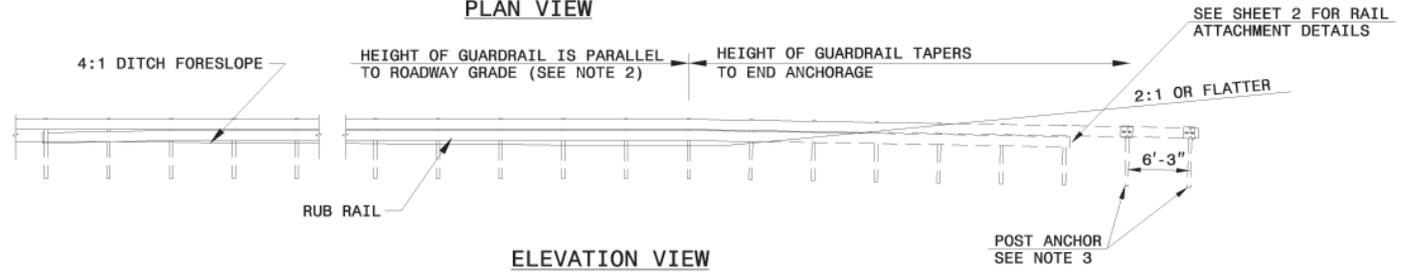


5/14/98

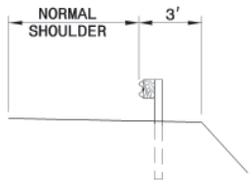


PLAN VIEW

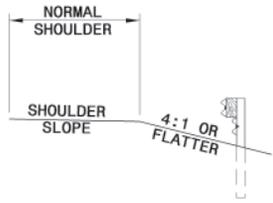
DESIGN SPEED mph	A:B
> 60	13:1
55	12:1
50	11:1
45	10:1
40	9:1
30 or less	7:1



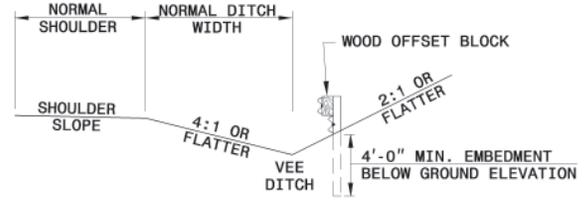
ELEVATION VIEW



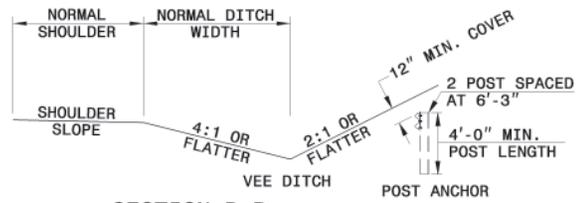
SECTION A-A



SECTION B-B  
(WITH RUBRAIL)



SECTION C-C  
(WITH RUBRAIL)



SECTION D-D

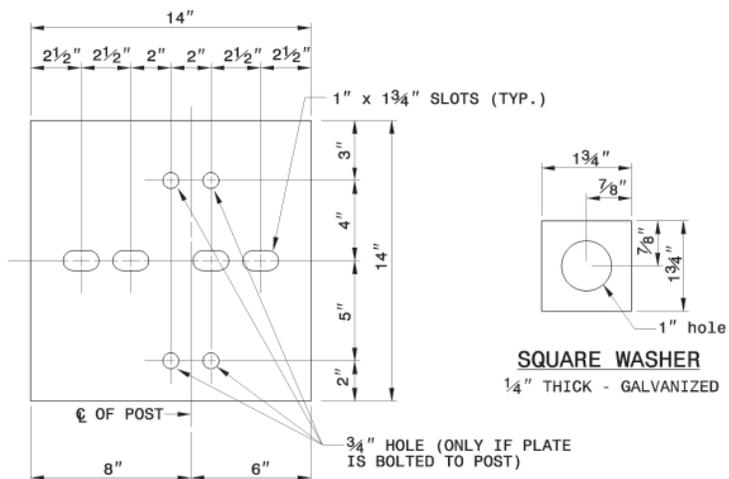
- NOTES:
- VARIABLE DITCH OFFSETS MAY BE USED TO FIT FIELD CONDITINS.
  - HEIGHT OF GUARDRAIL MAY BE TAPERED DOWN IN ELEVATION TO MAINTAIN 3'-9" MAXIMUM HEIGHT.
  - ALL POSTS ARE 8'-0" IN LENGTH FROM WHERE THE GUARDRAIL FLARES AWAY FROM THE SHOULDER BACK TO THE DITCH FLOW LINE. GUARDRAIL POSTS BEYOND THE DITCH FLOW LINE MAY BE SHORTENED AS LONG AS A MINIMUM OF 4 FT. EMBEDMENT REMAINS BELOW THE EXISTING GROUND LINE. POST FOR POST ANCHOR MAY BE REDUCED TO 4 FT., ALL OF WHICH WILL BE BELOW GROUND.
  - REFER TO NCDOT STANDARD DRAWINGS 862.02 FOR GUARDRAIL INSTALLATION NOT COVERED IN THIS DETAIL.
  - INSTALL GUARDRAIL IN ACCORDANCE NCDOT STANDARD SPECIFICATION 862
  - PAYMENT FOR ANY RUBRAIL INSTALLATION BEYOND BIC GUARDRAIL ANCHOR UNIT PAY LIMITS WILL BE INCIDENTAL TO PAYMENT FOR BIC ANCHOR UNIT.

DESIGN SERVICES UNIT  
STANDARDS AND SPECIAL DESIGN  
Office 919-250-4128 FAX 919-250-4119

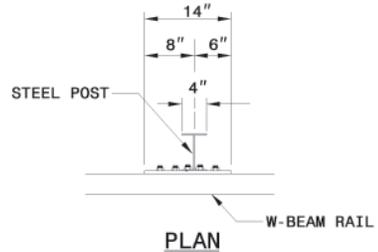
**DETAIL OF GUARDRAIL  
BURIED IN CUT (BIC)**

ORIGINAL BY: FHWA-G4 SYSTEM DATE: 8-13-98  
MODIFIED BY: E.E. WARD DATE: 12-7-01  
CHECKED BY: DATE:  
FILE SPEC: ericward/misc. guardrail/BIC.dgn

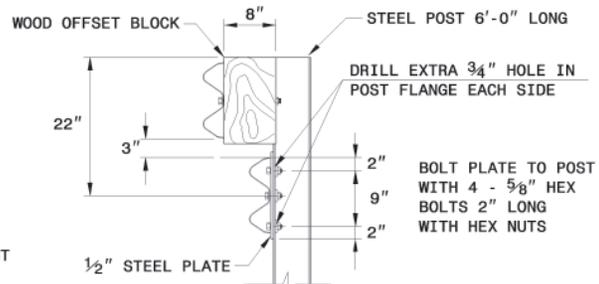
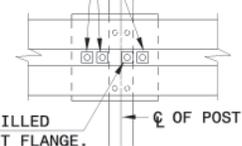
25 JAN 2006 10:33 51 Cont'd Sectional Details Ver: ericward/misc. guardrail/BIC.dgn



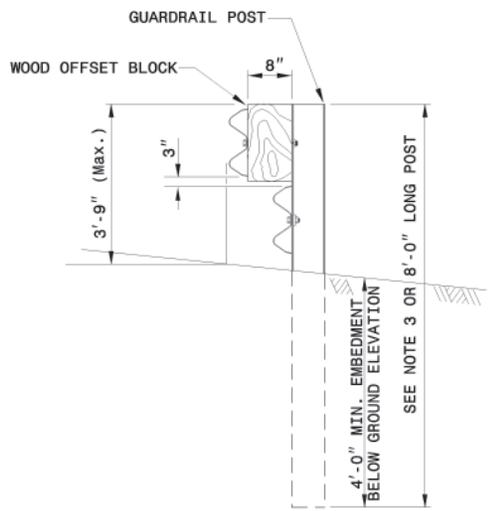
**STEEL PLATE - 1/2"**  
GALVANIZED  
WELDED OR BOLTED TO POST



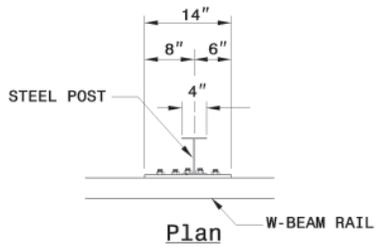
3 - 7/8" HOLES TO BE FIELD DRILLED IN RAIL AND ATTACHED TO STEEL PLATE WITH 7/8" HEX BOLTS 2" LONG WITH SQUARE WASHER



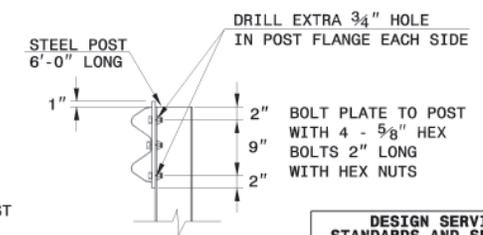
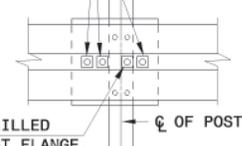
**RUBRAIL ANCHOR DETAILS**



**RAIL ATTACHMENT DETAIL**



3 - 1" HOLES TO BE FIELD DRILLED IN RAIL AND ATTACHED TO STEEL PLATE WITH 7/8" HEX BOLTS 2" LONG WITH SQUARE WASHER



**POST ANCHOR DETAILS**

DESIGN SERVICES UNIT  
STANDARDS AND SPECIAL DESIGN  
Office 919-250-4128 FAX 919-250-4119

**DETAIL OF GUARDRAIL BURIED IN CUT (BIC)**

ORIGINAL BY: FHWA-04 SYSTEM DATE: 8-13-98  
MODIFIED BY: E.E. WARD DATE: 12-7-01  
CHECKED BY: DATE:  
FILE SPEC.: ericward/misc. guardrail/BIC.dgn

5/04/99  
25: JAN 2006 (0433)  
S:\Contractors\11552533\Special\_Details\ericward\misc\_guardrail1\BIC\BIC.dgn  
ericward AN 10/22/03