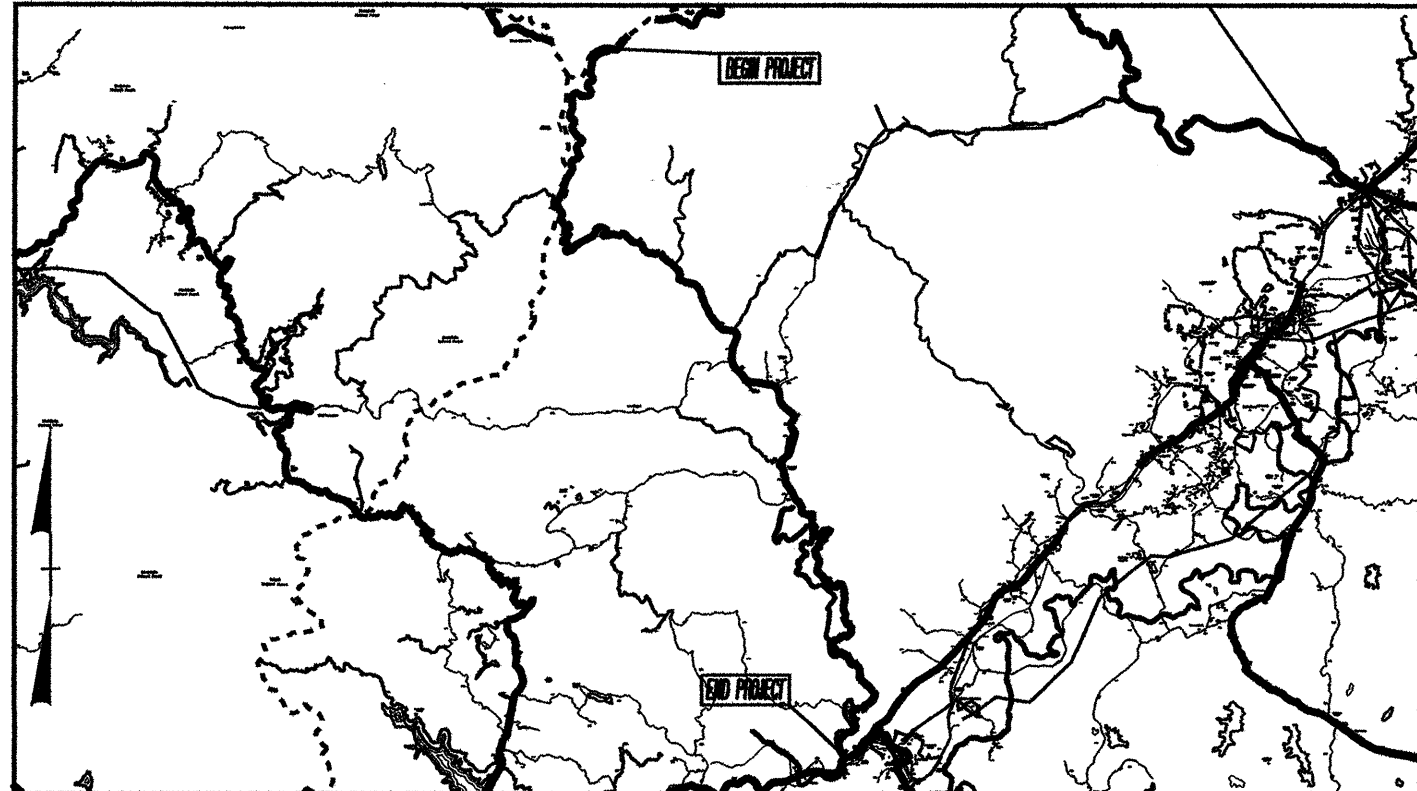


9/09/99

See Sheet 1-A For Index of Sheets

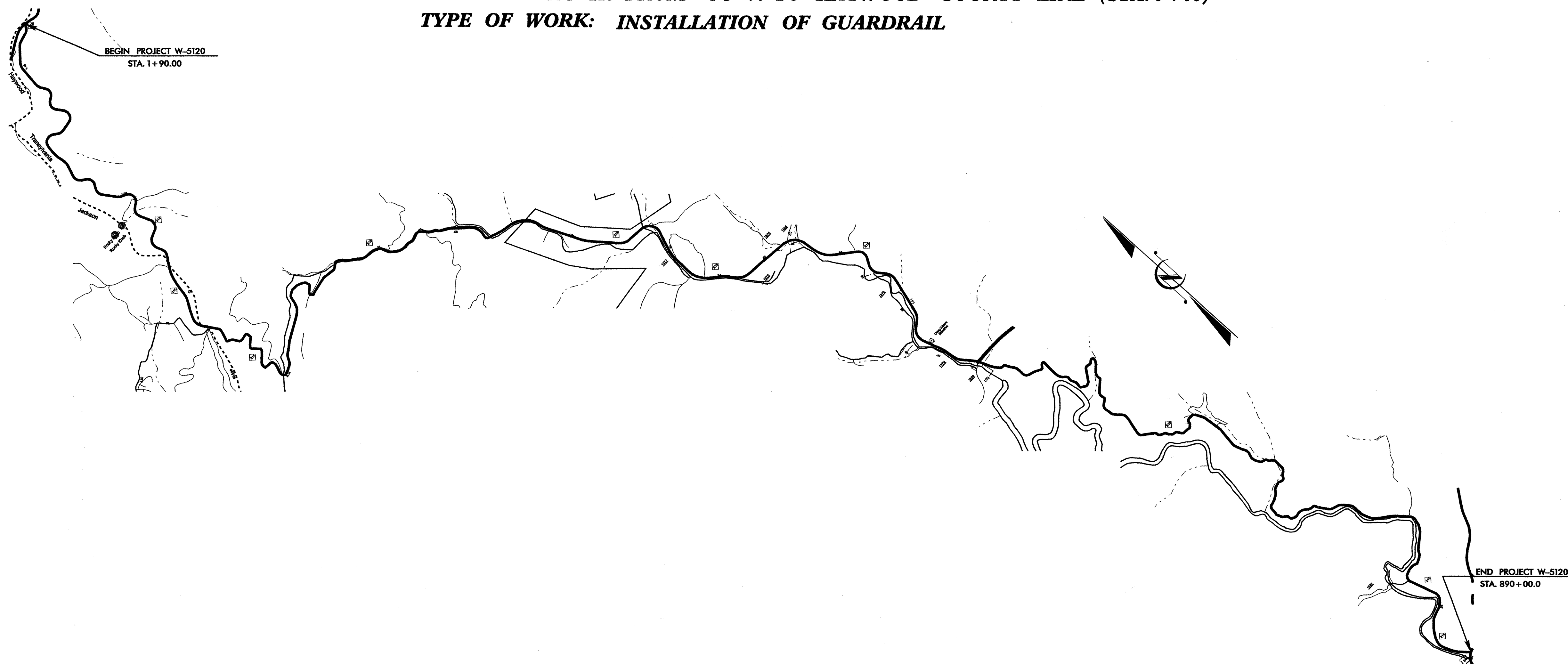
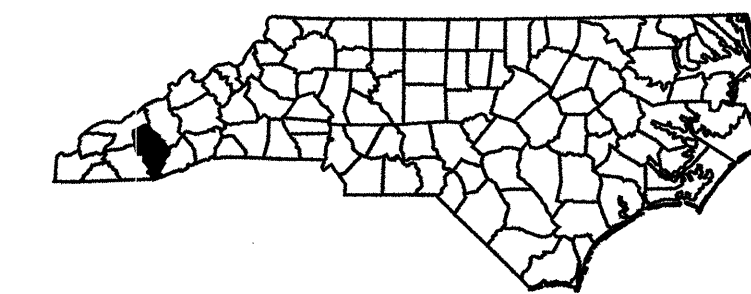


VICINITY MAP - NOT TO SCALE

STATE OF NORTH CAROLINA  
DIVISION OF HIGHWAYS  
  
**TRANSYLVANIA**  
and  
**JACKSON COUNTIES**

**LOCATION:** NC 215 FROM US 64 TO HAYWOOD COUNTY LINE (STA. 0+00)  
**TYPE OF WORK:** INSTALLATION OF GUARDRAIL

STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	W-5120; 41884.3.ST1; STM-215 (4)	1	
STATE PROJ. NO.	P.A. PROJ. NO.	DESCRIPTION	
41884.1.1	STP-0215(3)	P.E. & CONST.	
41884.2.1	STP-0215(3)	R / W	
41884.3.1		CONST.	
41884.3.ST1	STM-215(4)		



PLANS PREPARED BY: K.J. McDOWELL

\*DESIGN SPEED USED FOR GUARDRAIL LENGTHS ONLY.

NOT TO SCALE

GRAPHIC SCALES

NOT TO SCALE

DESIGN DATA

ADT 2007 = 1,100  
US 64 TO SR 1326:  
V = 40 MPH\*  
SR 1326 TO HAYWOOD  
COUNTY LINE:  
V = 50 MPH\*

PROJECT LENGTH

LENGTH ROADWAY T.I.P. PROJECT W-5120 = 16.82 MILES

Prepared In the Office of:  
**DIVISION OF HIGHWAYS**  
253 NC 116, Sylva, NC 28779

2006 STANDARD SPECIFICATIONS

**RIGHT OF WAY DATE:**  
N/A

**LETTING DATE:**  
AUGUST 18, 2009

**J.R. WILSON, P.E.**  
DIVISION CONSTRUCTION ENGINEER

**STEPHEN WILLIAMS**  
DESIGN CONSTRUCTION ENGINEER

HYDRAULICS ENGINEER

SIGNATURE: \_\_\_\_\_ P.E.

**ROADWAY DESIGN ENGINEER**

SIGNATURE: \_\_\_\_\_ P.E.



*James R. Wilson*  
6-11-09

CONTRACT: C202093

TIP PROJECT: W-5120

14-MAY-2009 14:07  
C:\w\11220\roadway\jrw\11220\_rdy\_tsh.dgn  
jwilliams

5/28/09

PROJECT REFERENCE NO.	SHEET NO.
W-5120; 41884.3.ST1;	1-A
STM-215 (4)	

STATE OF NORTH CAROLINA  
DIVISION OF HIGHWAYS

**INDEX OF SHEETS**

SHEET NUMBER

SHEET

1	TITLE SHEET
1-A	INDEX OF SHEETS
1-B	CONVENTIONAL PLAN SHEET SYMBOLS
2	DETAIL OF GUARDRAIL BURIED IN CUT
2-A	DETAIL OF GUARDRAIL BURIED IN CUT
2-B	GUARDRAIL ANCHOR UNIT TYPE III MODIFIED
3	SUMMARY OF QUANTITIES
3-A	GUARDRAIL SUMMARY
3-B	GUARDRAIL SUMMARY
4 - 15	PLAN SHEETS
TCP1 - TCP3	TRAFFIC CONTROL SHEETS

GENERAL NOTES

2006 SPECIFICATIONS  
EFFECTIVE: 07-18-06  
REVISED: 07-30-08

GUARDRAIL:

THE GUARDRAIL LOCATIONS SHOWN ON THE PLANS MAY BE ADJUSTED DURING CONSTRUCTION AS DIRECTED BY THE ENGINEER. GUARDRAIL QUANTITIES ARE APPROXIMATE ONLY. THE CONTRACTOR SHOULD CONSULT WITH THE ENGINEER PRIOR TO ORDERING GUARDRAIL MATERIAL.

SUBSURFACE PLANS:

NO SUBSURFACE PLANS ARE AVAILABLE ON THIS PROJECT. THE CONTRACTOR SHOULD MAKE HIS OWN INVESTIGATION AS TO THE SUBSURFACE CONDITIONS.

UTILITIES:

UTILITY OWNERS ON THIS PROJECT ARE HAYWOOD EMC AND CITIZEN'S TELEPHONE.

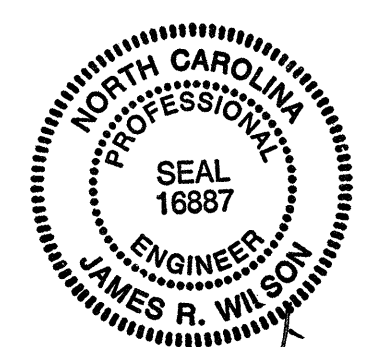
ANY RELOCATION OF EXISTING UTILITIES WILL BE ACCOMPLISHED BY OTHERS.

**ROADWAY ENGLISH STANDARD DRAWINGS**

EFF. 07-18-06  
REV. 01-02-07  
2006 ROADWAY ENGLISH STANDARD DRAWINGS

The following Roadway Standards as appear in "Roadway Standard Drawings" Highway Design Branch - N. C. Department of Transportation - Raleigh, N. C., Dated July 18, 2006 are applicable to this project and by reference hereby are considered a part of these plans:

STD.NO.	TITLE
DIVISION 8 - INCIDENTALS	
862.01	Guardrail Placement
862.02	Guardrail Installation
862.03	Structure Anchor Units



*James R. Wilson*  
6-11-09

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4408\5120\41884\3\ST1\1-  
a Williams

STATE OF NORTH CAROLINA  
DIVISION OF HIGHWAYS

CONVENTIONAL SYMBOLS

\*S.U.E = SUBSURFACE UTILITY ENGINEER

BUILDINGS & OTHER CULTURE

ROADS & RELATED ITEMS

Edge of Pavement	-----
Curb	-----
Prop. Slope Stakes Cut	----- C -----
Prop. Slope Stakes Fill	----- F -----
Prop. Woven Wire Fence	-----○-----
Prop. Chain Link Fence	-----□-----
Prop. Barbed Wire Fence	-----◇-----
Prop. Wheelchair Ramp	-----WCR-----
Exist. Guardrail	-----+-----
Prop. Guardrail	-----+-----
Equality Symbol	-----⊕-----
Pavement Removal	-----X-----

RIGHT OF WAY

Baseline Control Point	-----◆-----
Existing Right of Way Marker	-----△-----
Exist. Right of Way Line wMarker	-----△-----
Prop. Right of Way Line with Proposed RW Marker (Iron Pin & Cap)	-----▲-----
Prop. Right of Way Line with Proposed (Concrete or Granite) RW Marker	-----▲-----
Exist. Control of Access Line	-----C/A-----
Prop. Control of Access Line	-----C/A-----
Exist. Easement Line	-----E-----
Prop. Temp. Construction Easement Line	-----E-----
Prop. Temp. Drainage Easement Line	-----TDE-----
Prop. Perm. Drainage Easement Line	-----PDE-----

HYDROLOGY

Stream or Body of Water	-----
Flow Arrow	----->-----
Disappearing Stream	-----Y-----
Spring	-----○-----
Swamp Marsh	-----▽-----
Shoreline	-----
Falls, Rapids	-----
Prop Lateral, Tail, Head Ditches	-----FLOW-----

STRUCTURES

MAJOR	
Bridge, Tunnel, or Box Culvert	-----CONC-----
Bridge Wing Wall, Head Wall and End Wall	-----CONC WW-----

MINOR	
Head & End Wall	-----CONC HW-----
Pipe Culvert	-----
Footbridge	-----
Drainage Boxes	-----CB-----
Paved Ditch Gutter	-----

UTILITIES

Exist. Pole	-----●-----
Exist. Power Pole	-----●-----
Prop. Power Pole	-----○-----
Exist. Telephone Pole	-----●-----
Prop. Telephone Pole	-----○-----
Exist. Joint Use Pole	-----●-----
Prop. Joint Use Pole	-----○-----
Telephone Pedestal	-----T-----
Cable TV Pedestal	-----C-----
Hydrant	-----◇-----
Satellite Dish	-----
Exist. Water Valve	-----⊗-----
Sewer Clean Out	-----⊕-----
Power Manhole	-----P-----
Telephone Booth	-----B-----
Water Manhole	-----W-----
Light Pole	-----
H-Frame Pole	-----
Power Line Tower	-----
Pole with Base	-----
Gas Valve	-----◇-----
Gas Meter	-----
Telephone Manhole	-----T-----
Power Transformer	-----
Sanitary Sewer Manhole	-----
Storm Sewer Manhole	-----
Tank; Water, Gas, Oil	-----
Water Tank With Legs	-----
Traffic Signal Junction Box	-----
Fiber Optic Splice Box	-----
Television or Radio Tower	-----
Utility Power Line Connects to Traffic Signal Lines Cut Into the Pavement	-----TS-----

Recorded Water Line	-----W-----
Designated Water Line (S.U.E.*)	-----W-----
Sanitary Sewer	-----SS-----
Recorded Sanitary Sewer Force Main	-----FSS-----
Designated Sanitary Sewer Force Main(S.U.E.*)	-----FSS-----
Recorded Gas Line	-----G-----
Designated Gas Line (S.U.E.*)	-----G-----
Storm Sewer	-----S-----
Recorded Power Line	-----P-----
Designated Power Line (S.U.E.*)	-----P-----
Recorded Telephone Cable	-----T-----
Designated Telephone Cable (S.U.E.*)	-----T-----
Recorded U/G Telephone Conduit	-----TC-----
Designated U/G Telephone Conduit (S.U.E.*)	-----TC-----
Unknown Utility (S.U.E.*)	-----?UTL-----
Recorded Television Cable	-----TV-----
Designated Television Cable (S.U.E.*)	-----TV-----
Recorded Fiber Optics Cable	-----FO-----
Designated Fiber Optics Cable (S.U.E.*)	-----FO-----
Exist. Water Meter	-----
U/G Test Hole (S.U.E.*)	-----
Abandoned According to U/G Record	-----ATTUR-----
End of Information	-----E.O.I-----

BOUNDARIES & PROPERTIES

State Line	-----
County Line	-----
Township Line	-----
City Line	-----
Reservation Line	-----
Property Line	-----
Property Line Symbol	-----
Exist. Iron Pin	-----EIP-----
Property Corner	-----+-----
Property Monument	-----ECM-----
Property Number	-----123-----
Parcel Number	-----6-----
Fence Line	-----X-----
Existing Wetland Boundaries	-----WLB-----
Proposed Wetland Boundaries	-----WLB-----
Existing Endangered Animal Boundaries	-----EAB-----
Existing Endangered Plant Boundaries	-----EPB-----

Buildings	-----
Foundations	-----
Area Outline	-----
Gate	-----
Gas Pump Vent or U/G Tank Cap	-----
Church	-----
School	-----
Park	-----
Cemetery	-----
Dam	-----
Sign	-----
Well	-----
Small Mine	-----
Swimming Pool	-----

TOPOGRAPHY

Loose Surface	-----
Hard Surface	-----
Change in Road Surface	-----
Curb	-----
Right of Way Symbol	-----R/W-----
Guard Post	-----GP-----
Paved Walk	-----
Bridge	-----
Box Culvert or Tunnel	-----
Ferry	-----
Culvert	-----
Footbridge	-----
Trail, Footpath	-----
Light House	-----

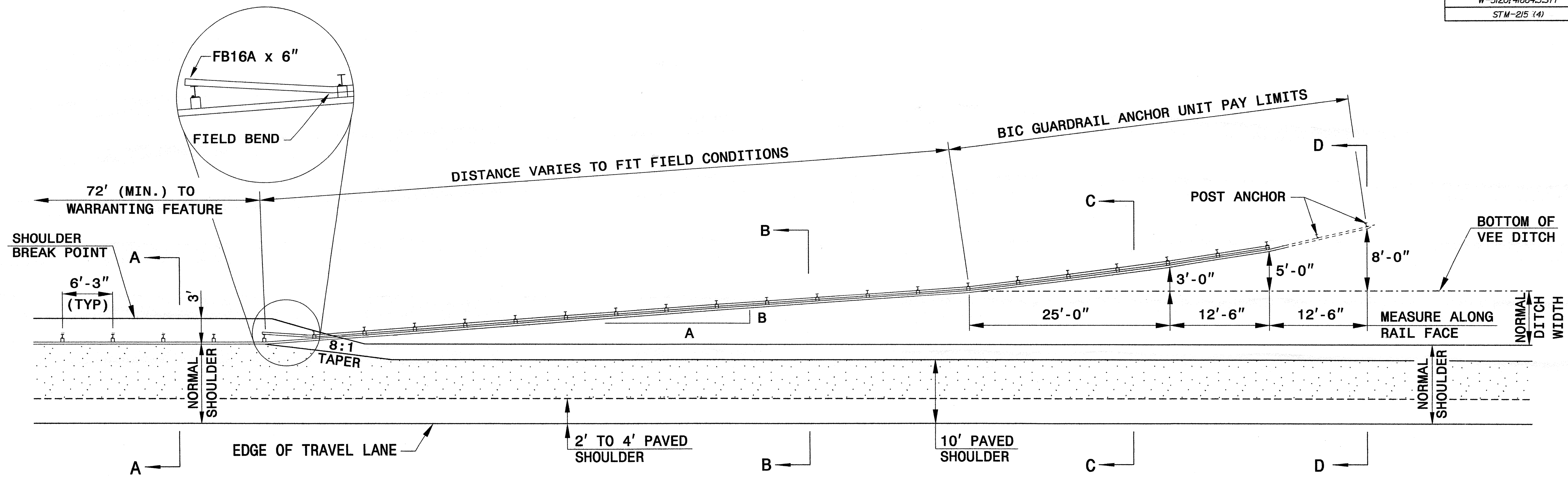
VEGETATION

Single Tree	-----
Single Shrub	-----
Hedge	-----
Woods Line	-----
Orchard	-----
Vineyard	-----VINEYARD-----

RAILROADS

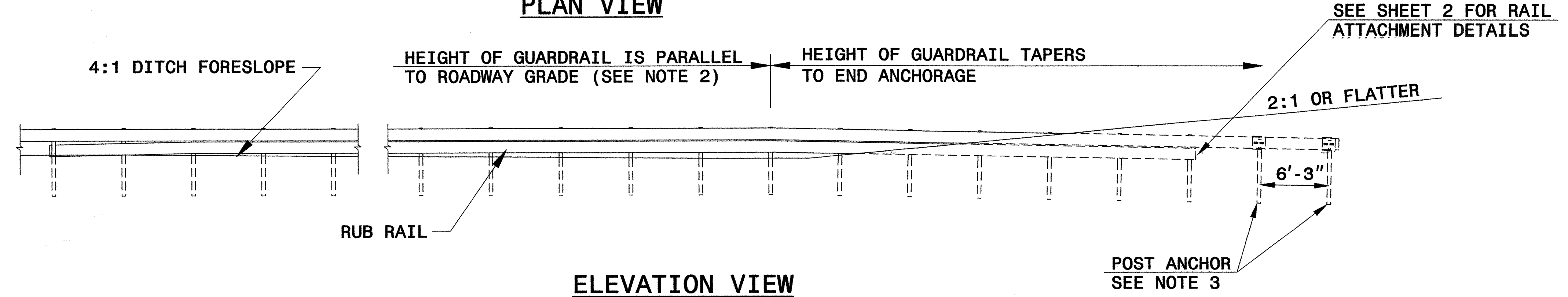
Standard Gauge	-----
RR Signal Milepost	-----
Switch	-----

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JWilliams - R:\PCAD\23692

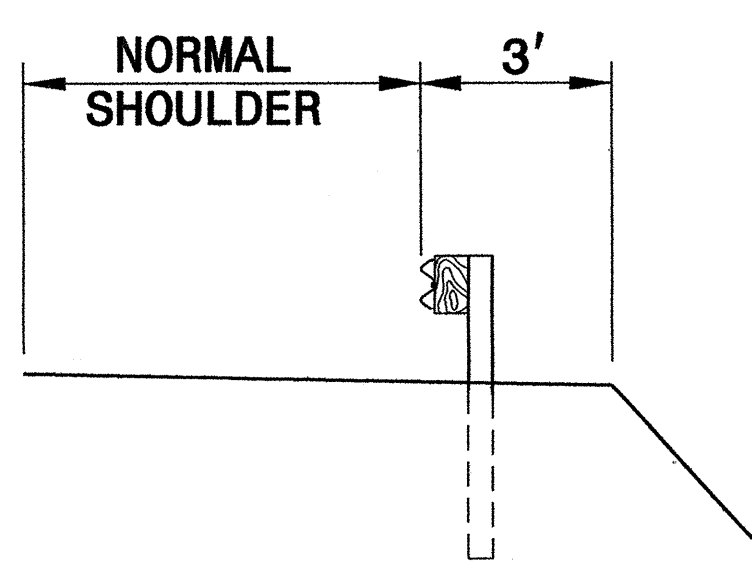


**PLAN VIEW**

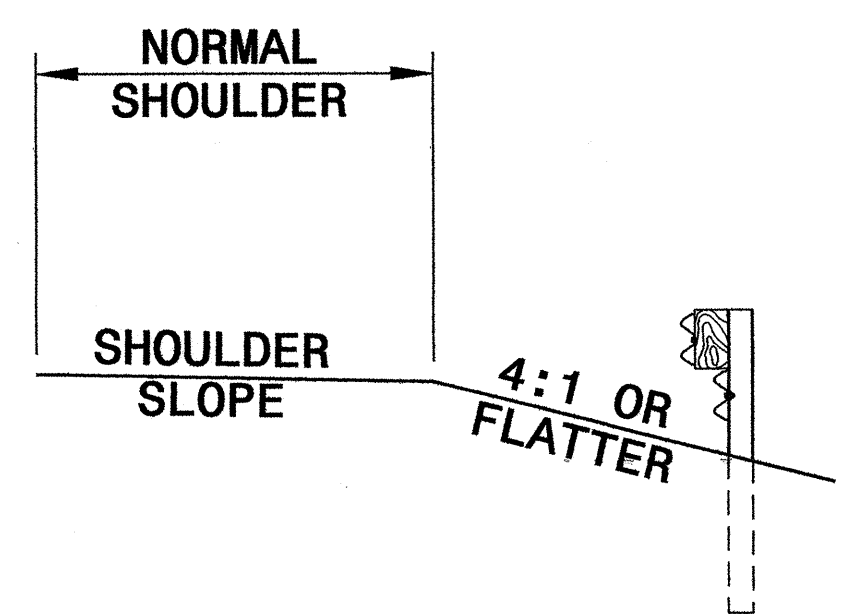
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> 60	13:1
55	12:1
50	11:1
45	10:1
40	9:1
30 or less	7:1



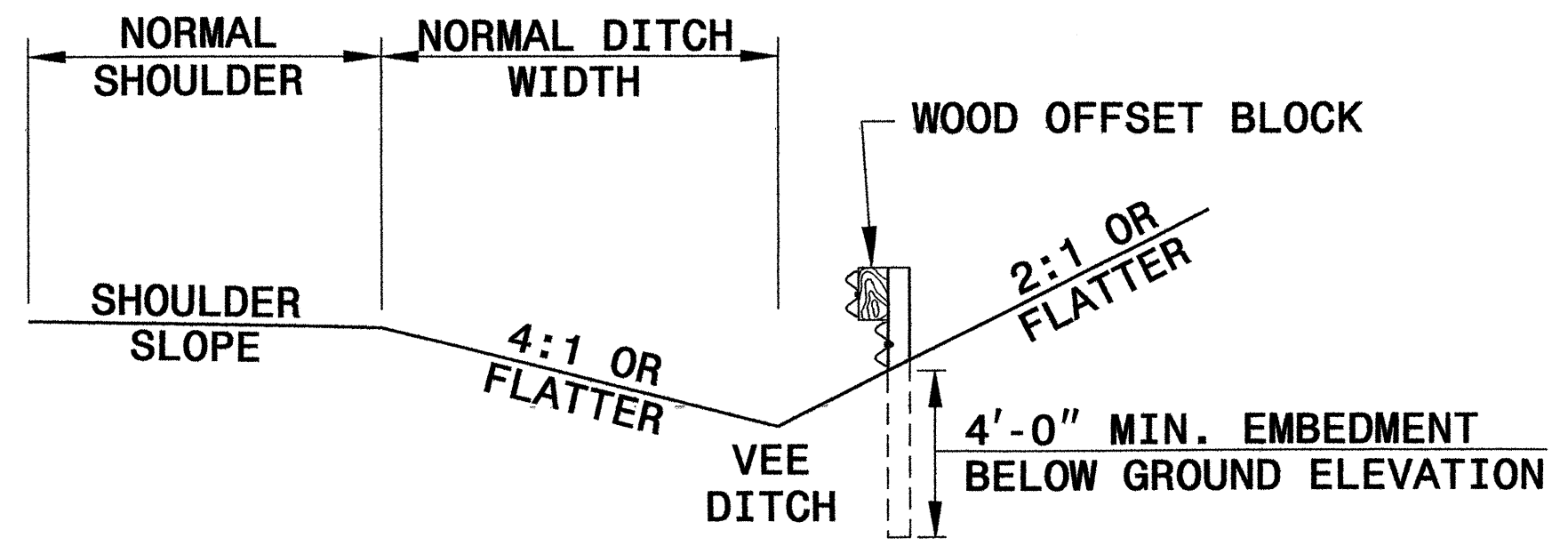
**ELEVATION VIEW**



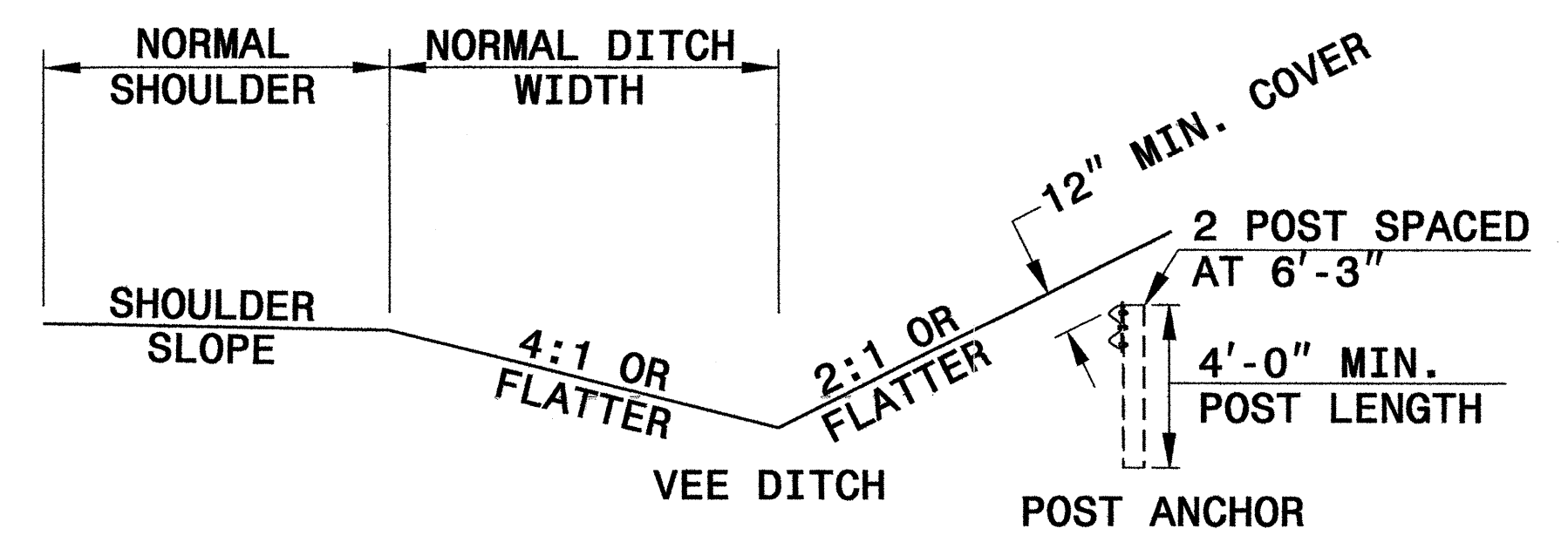
**SECTION A-A**



**SECTION B-B  
(WITH RUBRAIL)**



**SECTION C-C  
(WITH RUBRAIL)**



**SECTION D-D**

- NOTES:**
- VARIABLE DITCH OFFSETS MAY BE USED TO FIT FIELD CONDITIONS.
  - 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.

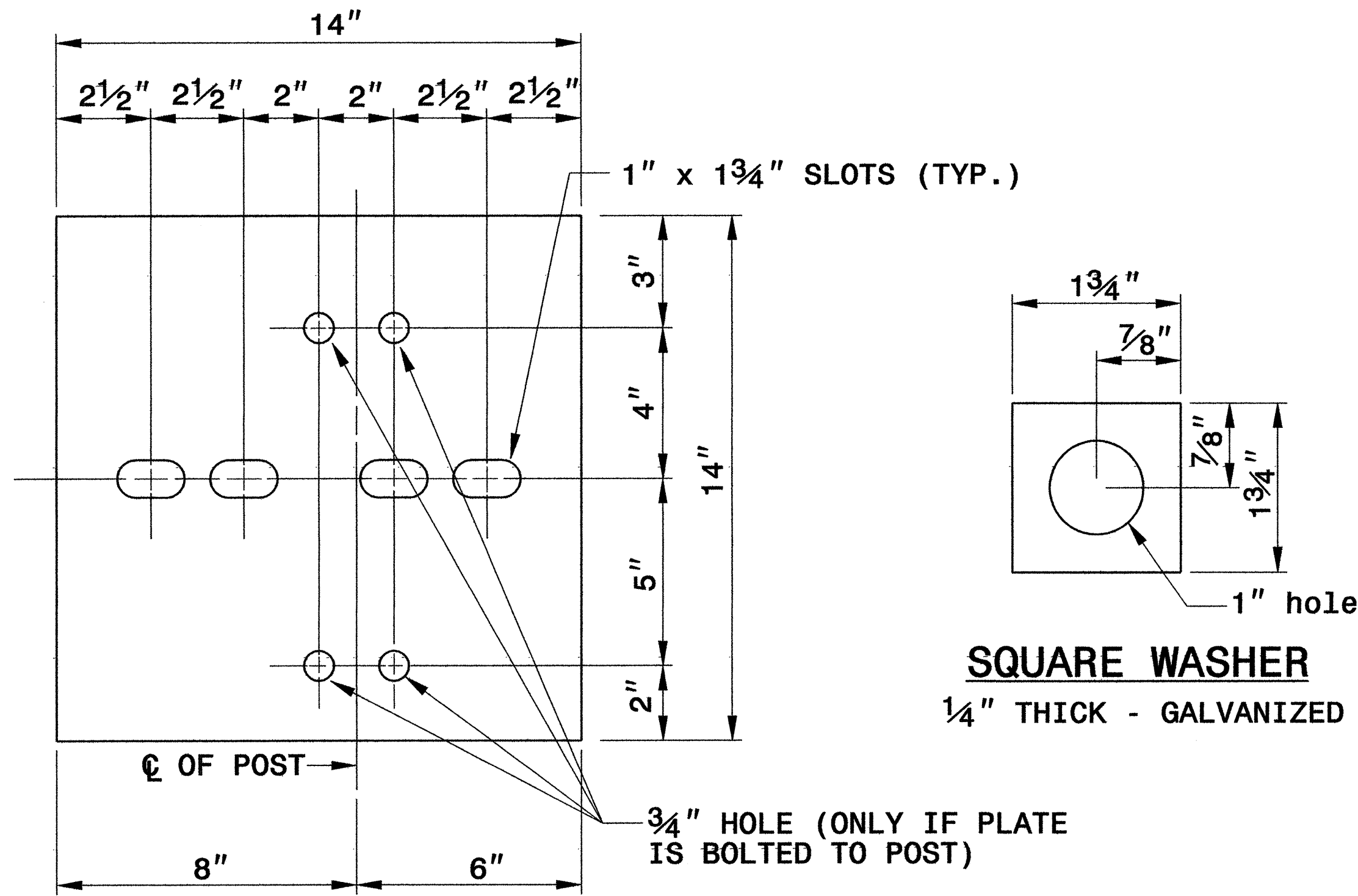


**DESIGN SERVICES UNIT  
STANDARDS AND SPECIAL DESIGN**  
Office 919-250-4128 FAX 919-250-4119

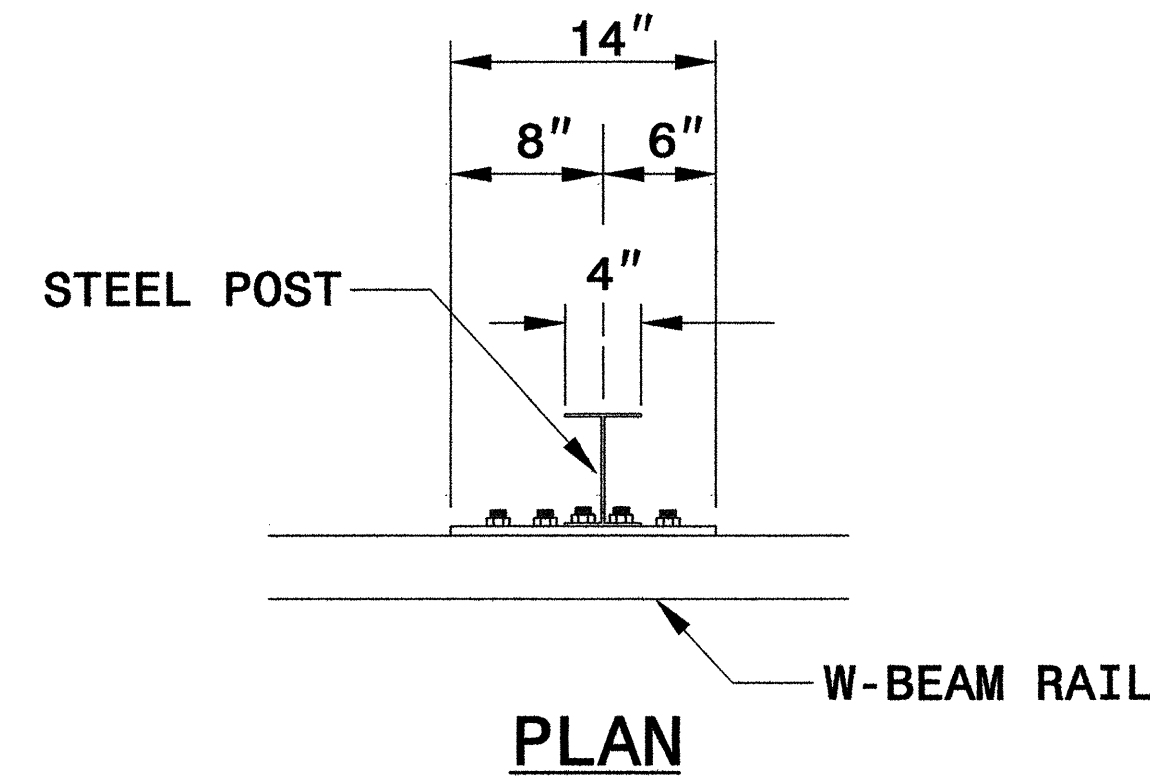
**DETAIL OF GUARDRAIL  
BURIED IN CUT (BIC)**

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

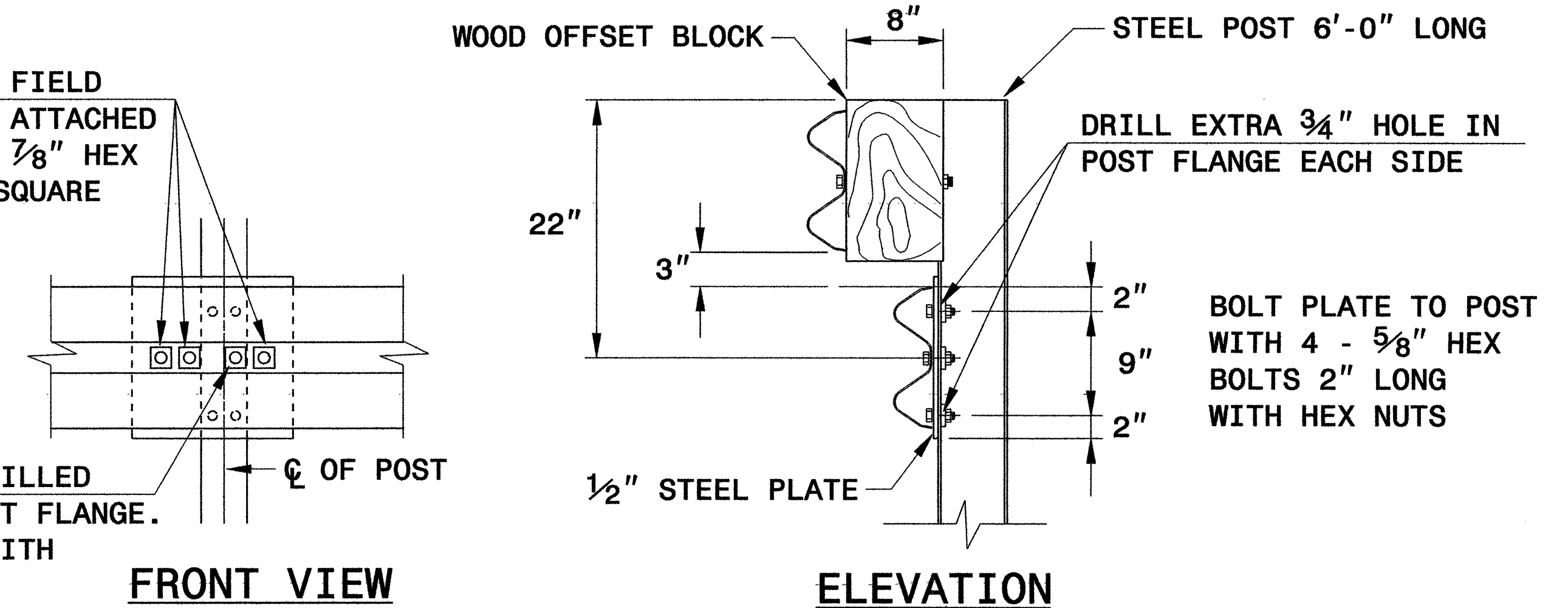
PROJECT REFERENCE NO.	SHEET NO.
W-5120, 41884.3.ST1	2-A
STM-215.14)	



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

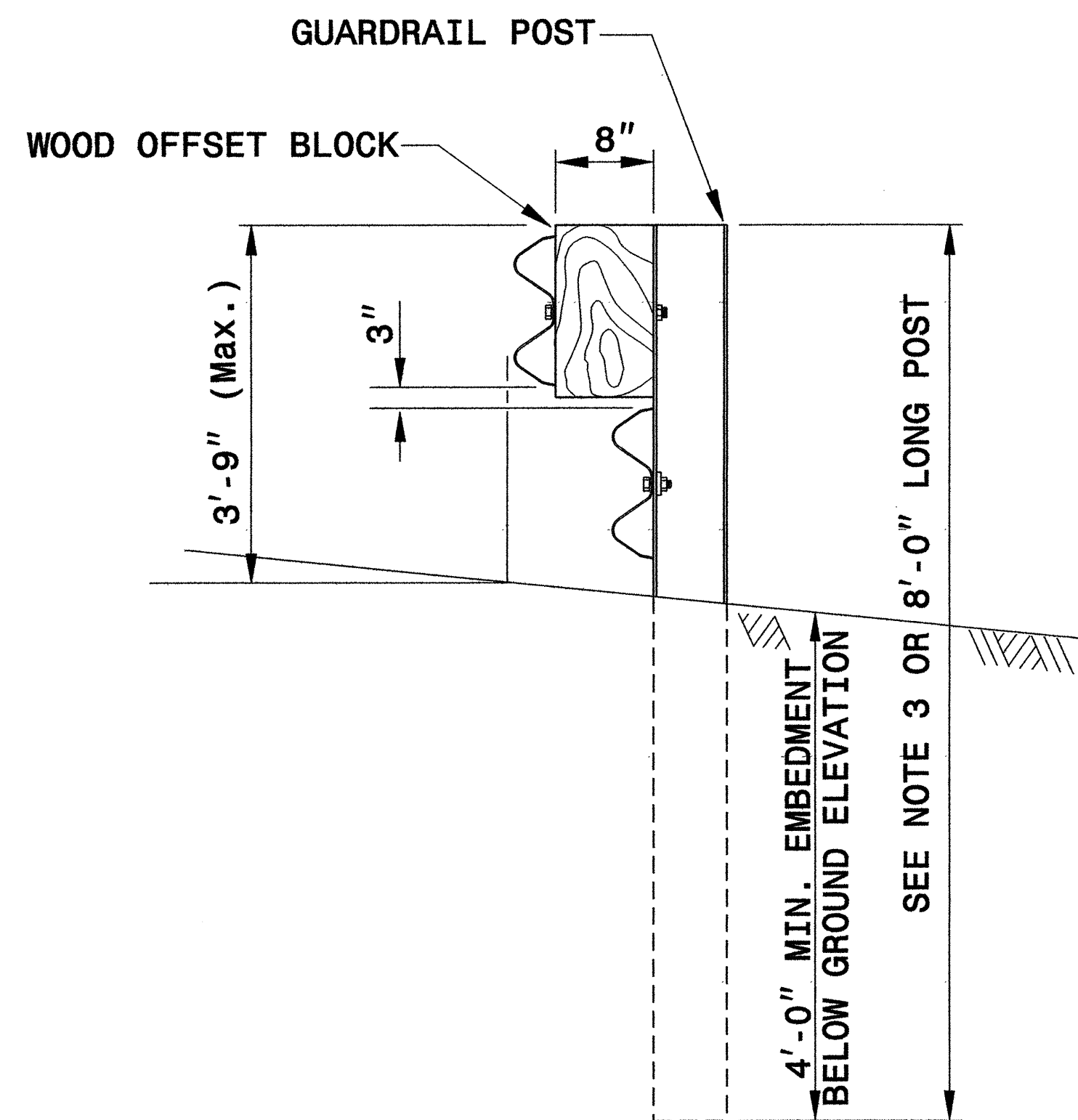


3 - 7/8" HOLES TO BE FIELD DRILLED IN RAIL AND ATTACHED TO STEEL PLATE WITH 7/8" HEX BOLTS 2" LONG WITH SQUARE WASHER

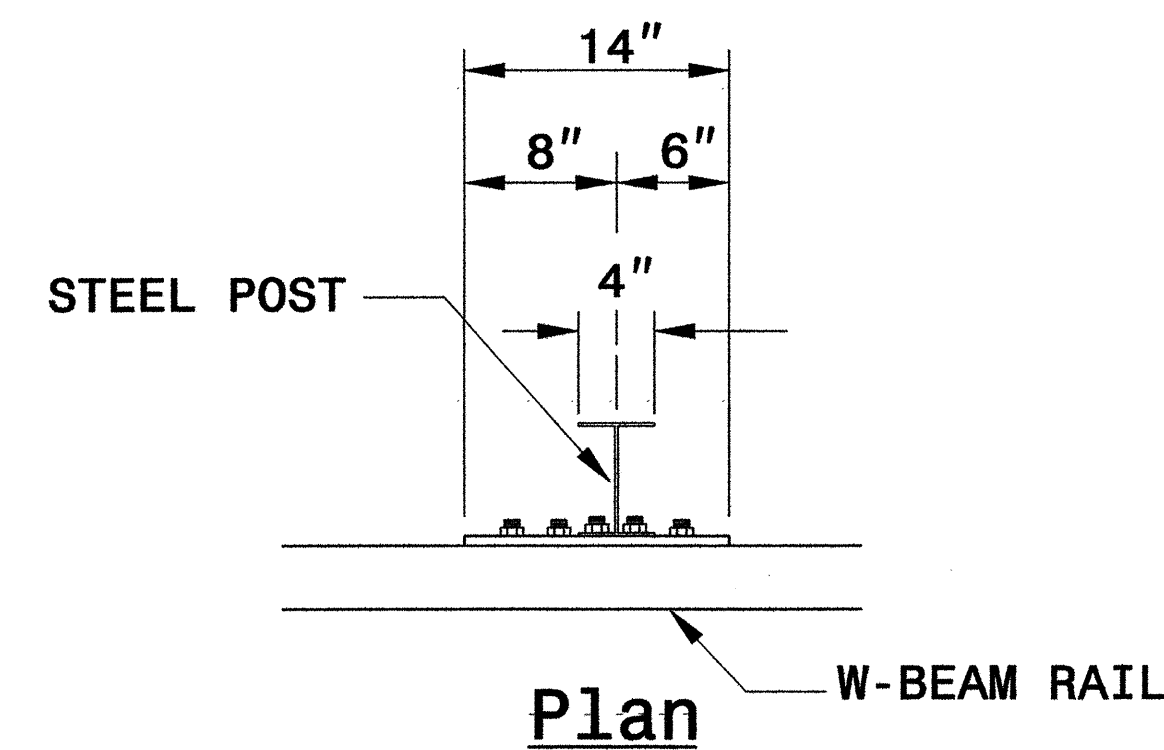


1" HOLES TO BE FIELD DRILLED IN RAIL AND THROUGH POST FLANGE. ATTACH TO STEEL PLATE WITH 7/8" HEX BOLTS 2" LONG WITH SQUARE WASHER

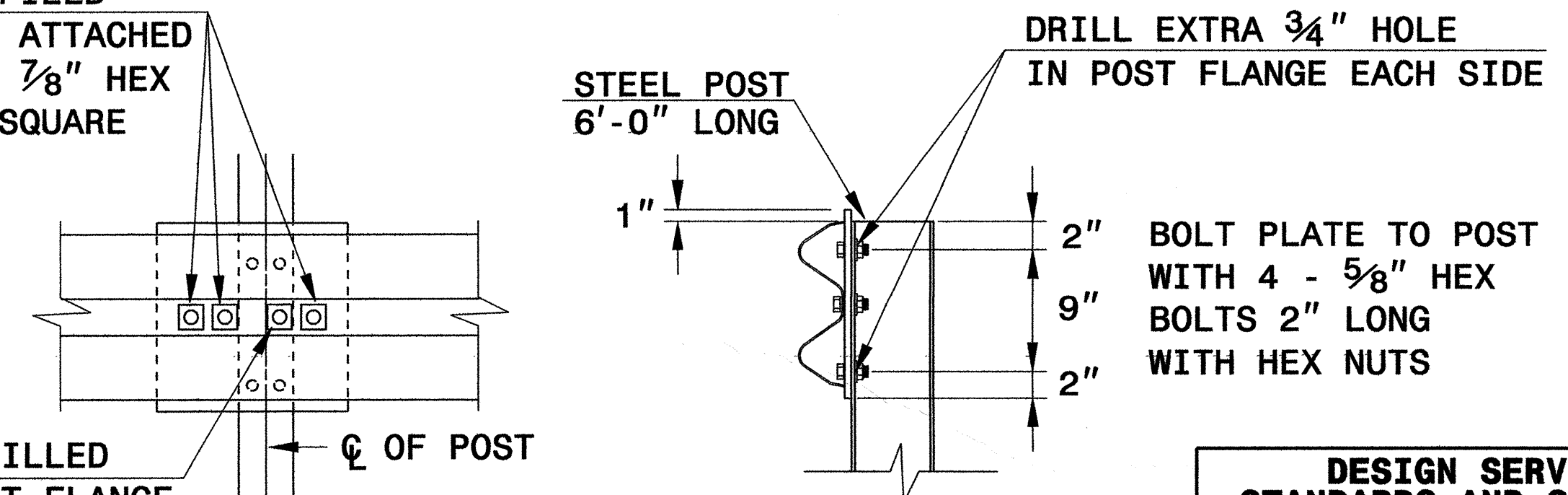
**RUBRAIL ANCHOR DETAILS**



**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

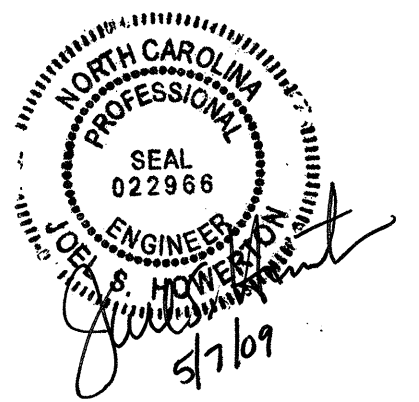


1" HOLES TO BE FIELD DRILLED IN RAIL AND THROUGH POST FLANGE. ATTACH TO STEEL PLATE WITH 7/8" HEX BOLTS 2" LONG WITH SQUARE WASHER.

**FRONT VIEW**

**ELEVATION**

**POST ANCHOR DETAILS**

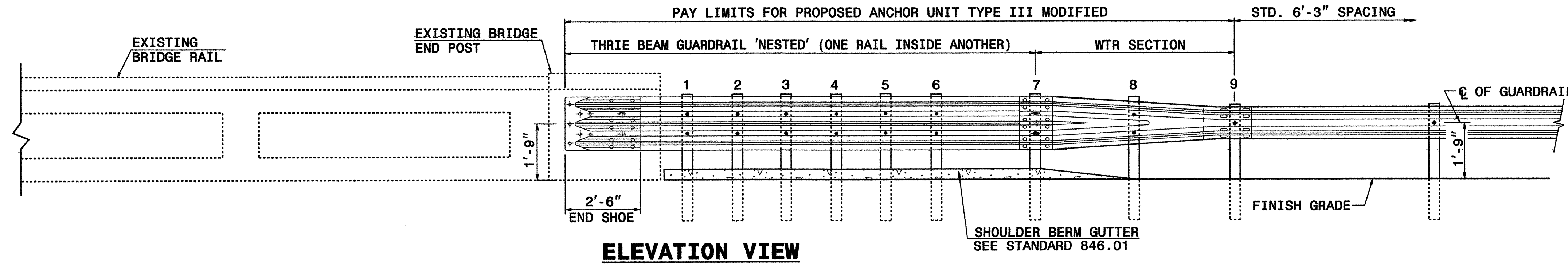


**DESIGN SERVICES UNIT**  
STANDARDS AND SPECIAL DESIGN  
Office 919-250-4128 FAX 919-250-4119

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

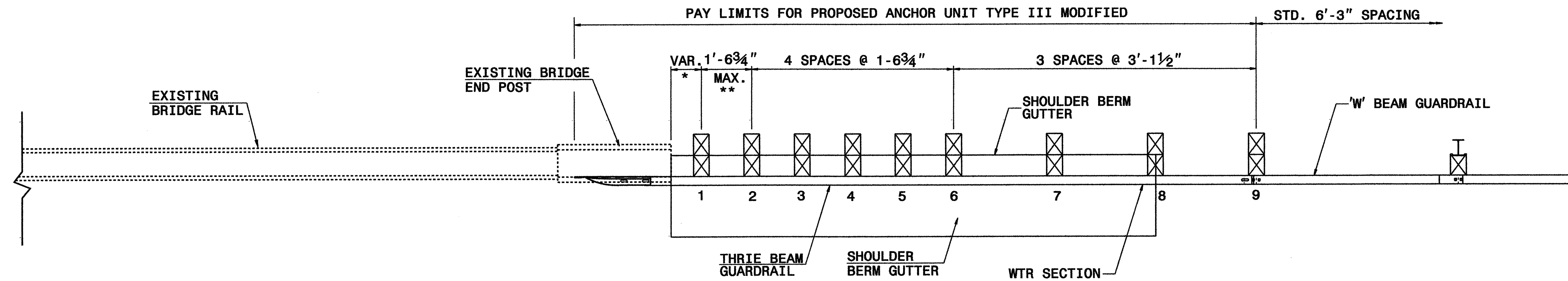
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MODIFIED BY: E.E. WARD DATE: 12-7-01  
CHECKED BY: DATE:  
FILE SPEC.: ericward/misc. guardrail/BIC.dgn

5/14/99  
05-MAY-2009 08:46  
j.williams At D:\4CAD\234642  
supicgals\bice.dgn



**ELEVATION VIEW**

\*THE DISTANCE FROM END OF BRIDGE RAIL TO CENTER LINE OF THE FIRST POST SHOULD BE 11½" IF CONCRETE BACKWALL IS NOT PRESENT.  
 \*\*POST NOT REQUIRED FOR SKEW ANGLES GREATER THAN 150° OR LESS THAN 30° UNLESS OTHERWISE DIRECTED BY THE ENGINEER.



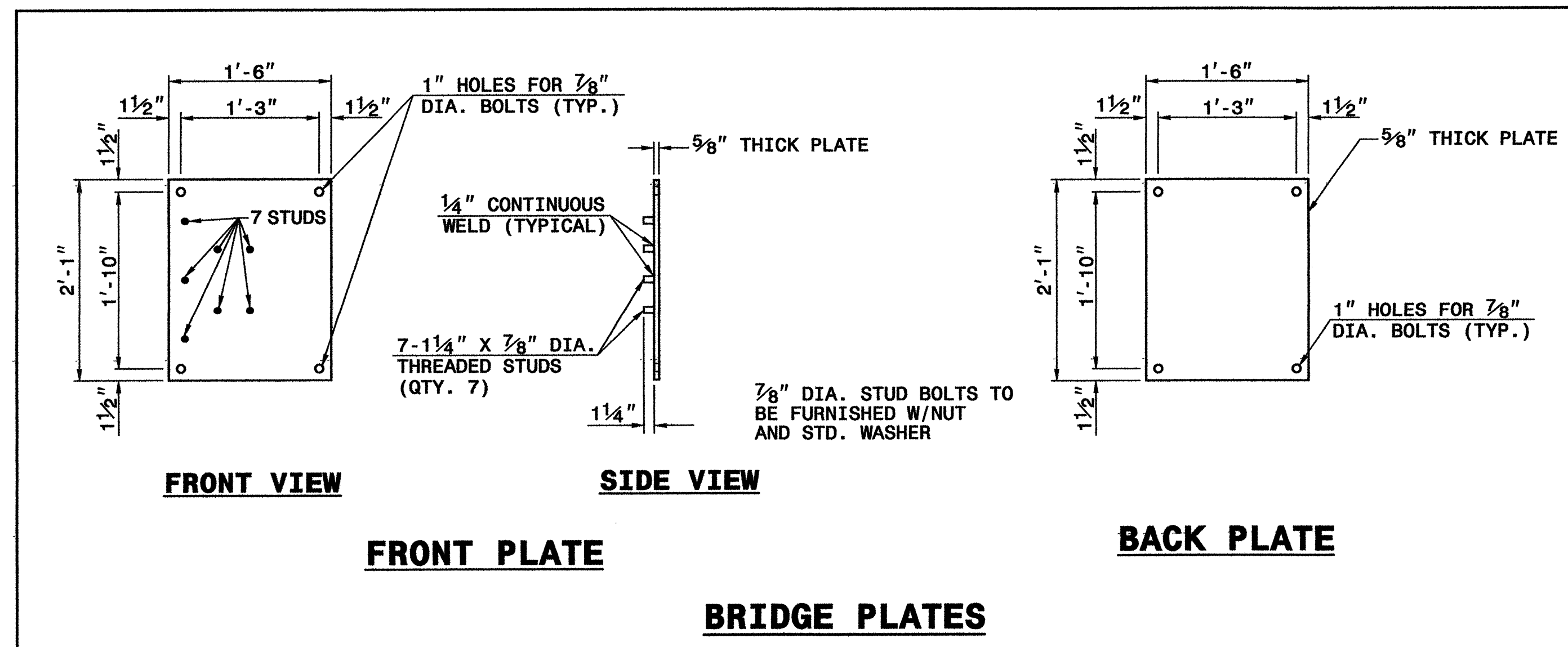
**PLAN VIEW**

**NOTES FOR ANCHORING END OF GUARDRAIL WITH BRIDGE PLATES:**

1. USE NUTS, BOLTS, AND WASHERS CONFORMING TO THE REQUIREMENTS OF A.S.T.M. A-307 AND GALVANIZED IN ACCORDANCE WITH SECTION 1076 OF STAND. SPECS.
  2. TAP NUTS FOR THE 7/8" DIA. STUDS AND BOLTS AFTER GALVANIZING SEE A.S.T.M. A-563.
  3. USE PLATES CONFORMING TO THE REQUIREMENTS OF A.S.T.M. A-36 AND GALVANIZED AFTER FABRICATION IN ACCORDANCE WITH SECTION 1076 OF STAND. SPECS.
  4. ADDITIONAL FIELD HOLES MAY BE DRILLED IN STEEL RAIL AS DIRECTED BY THE ENGINEER.
  5. ATTACH THREADED STUDS TO PLATE WITH 1/4" WELDS ALL AROUND.
  6. AFTER INSTALLATION, THE EXPOSED THREAD OF THE BOLT SHALL BE BURRED WITH A SHARP POINTED TOOL.
  7. THE 1" DIA. HOLES SHALL BE DRILLED WITH A CORE BIT. IMPACT TOOLS WILL NOT BE PERMITTED.
- ANY CONCRETE DAMAGED BY THIS WORK SHALL BE REPAIRED TO THE SATISFACTION OF THE ENGINEER.

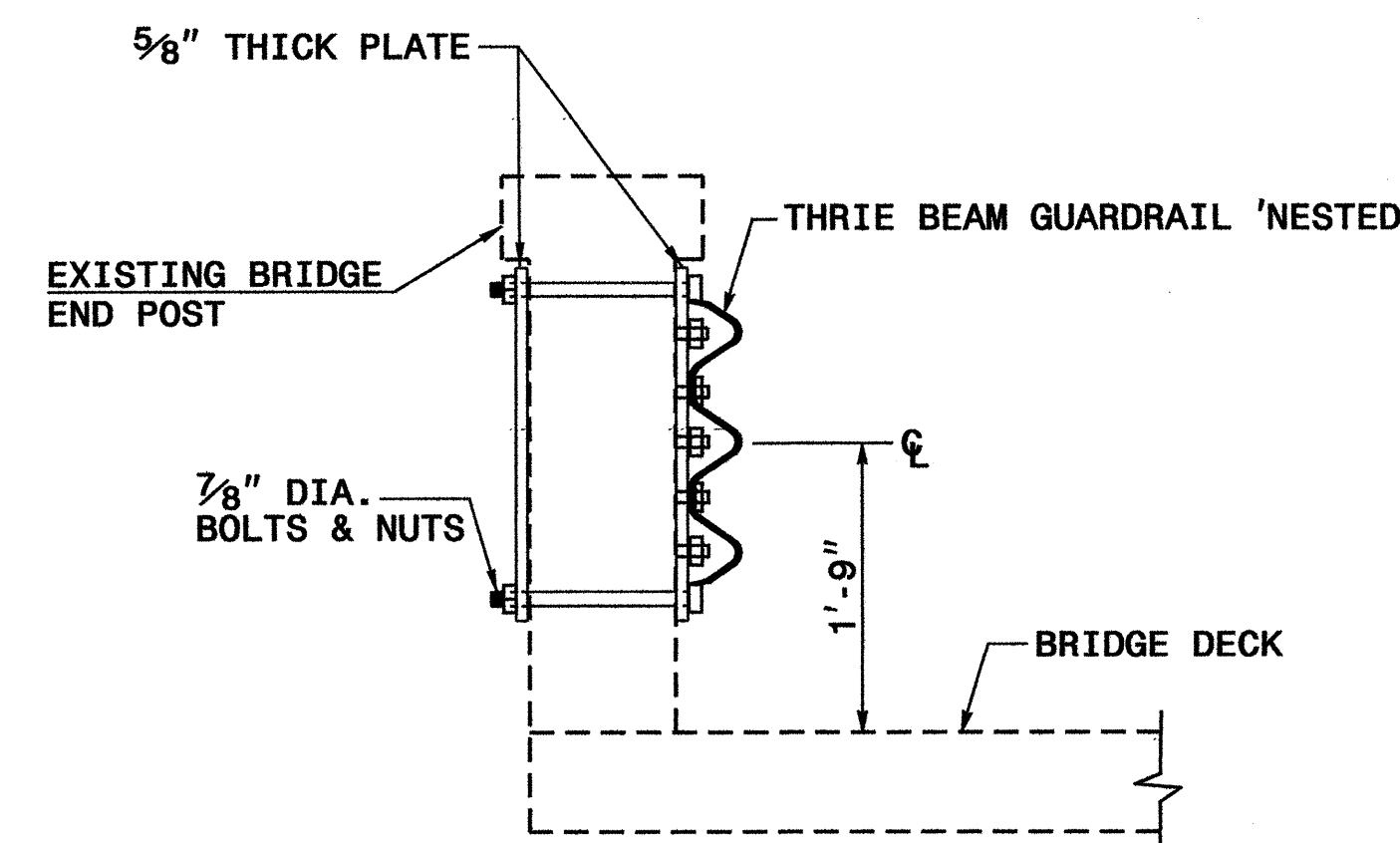
**GENERAL NOTES:**

1. SEE ROADWAY STANDARD 862.03 SHEET 4 FOR ADDITIONAL INFORMATION ON THE TYPE III ANCHOR UNIT
2. MEASURE GUARDRAIL HEIGHT FROM THE TOP OF ADJACENT SURFACE (SHOULDER, BERM, OR GUTTER).
3. USE NO STEEL POSTS WITHIN THE GUARDRAIL ANCHOR UNIT LIMITS.
4. LAP JOINTS IN THE DIRECTION OF TRAFFIC FLOW.
5. REFER TO STANDARD SPECIFICATION SECTION 862 FOR GUARDRAIL.
6. ALL WORK AND MATERIALS USED SHALL MEET THE APPROVAL OF THE ENGINEER.

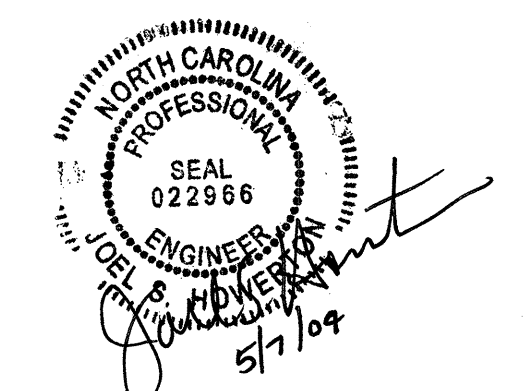


**FRONT PLATE**

**BRIDGE PLATES**



**SECTION VIEW**



<b>PROJECT SERVICES UNIT STANDARDS AND SPECIAL DESIGN</b>	
Office 919-250-4128	FAX 919-250-4119
<b>GUARDRAIL ANCHOR UNIT TYPE III MODIFIED FOR CLASSIC BRIDGE RAIL</b>	
ORIGINAL BY: E.E. WARD	DATE: 2-24-03
MODIFIED BY: E.E. WARD	DATE: 2-17-04
CHECKED BY:	DATE:
FILE SPEC.: \usr\detail\stand\bp iii original.dgn	

05-MAY-2009 08:48  
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 sjwilliams At 01:40:25 05/05/09

STATE OF NORTH CAROLINA  
DIVISION OF HIGHWAYS  
**SUMMARY OF QUANTITIES**

STATE OF NORTH CAROLINA  
DIVISION OF HIGHWAYS  
ROADWAY SUMMARY OF QUANTITIES FOR CONTRACT - C202093

ItemNumber	Sec #	Quantity	Unit	Description
0000100000-N	800	Lump Sum		MOBILIZATION
0255000000-E	SP	1,500	TON	GENERIC GRADING ITEM SHOULDER REPAIR
3360000000-E	863	39,050	LF	REMOVE EXISTING GUARDRAIL
3420000000-E	SP	73,000	LF	GENERIC GUARDRAIL ITEM WEATHERING STEEL BM GUARDRAIL WITH PAINTED LAPS
3420000000-E	SP	5,100	LF	GENERIC GUARDRAIL ITEM WEATHERING STEEL BM GUARDRAIL WITH PAINTED LAPS, SHOP CURVED
3435000000-N	SP	20	EA	GENERIC GUARDRAIL ITEM PAINTED ADDITIONAL GUARDRAIL POSTS
3435000000-N	SP	50	EA	GENERIC GUARDRAIL ITEM PAINTED EXTRA LENGTH GUARDRAIL POSTS
3435000000-N	SP	83	EA	GENERIC GUARDRAIL ITEM PAINTED GUARDRAIL ANCHOR UNITS, TYPE 350
3435000000-N	SP	33	EA	GENERIC GUARDRAIL ITEM PAINTED GUARDRAIL ANCHOR UNITS, TYPE AT-1
3435000000-N	SP	42	EA	GENERIC GUARDRAIL ITEM PAINTED GUARDRAIL ANCHOR UNITS, TYPE BIC
3435000000-N	SP	5	EA	GENERIC GUARDRAIL ITEM PAINTED GUARDRAIL ANCHOR UNITS, TYPE III MODIFIED
4405000000-E	1110	296	SF	WORK ZONE SIGNS (PORTABLE)
4415000000-N	1115	1	EA	FLASHING ARROW PANELS, TYPE C
4420000000-N	1120	2	EA	CHANGEABLE MESSAGE SIGN
4430000000-N	1130	50	EA	DRUMS
4435000000-N	1135	50	EA	CONES
4455000000-N	1150	660	MD	FLAGGER
4480000000-N	1165	1	EA	TMIA

5/28/99

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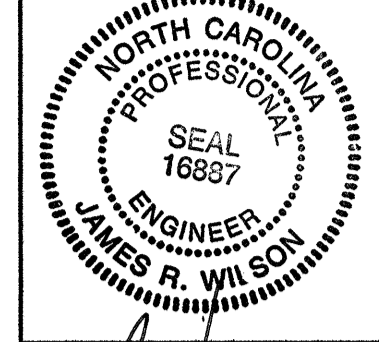




8/17/99

NOTE: ACTUAL GUARDRAIL LOCATIONS TO BE STAKED IN THE FIELD USING CURRENT DESIGN GUIDELINES.  
BEGINNING AND ENDING STATIONS IN THE GUARDRAIL SUMMARY ARE APPROXIMATE AND ARE FOR BIDDING PURPOSES ONLY.

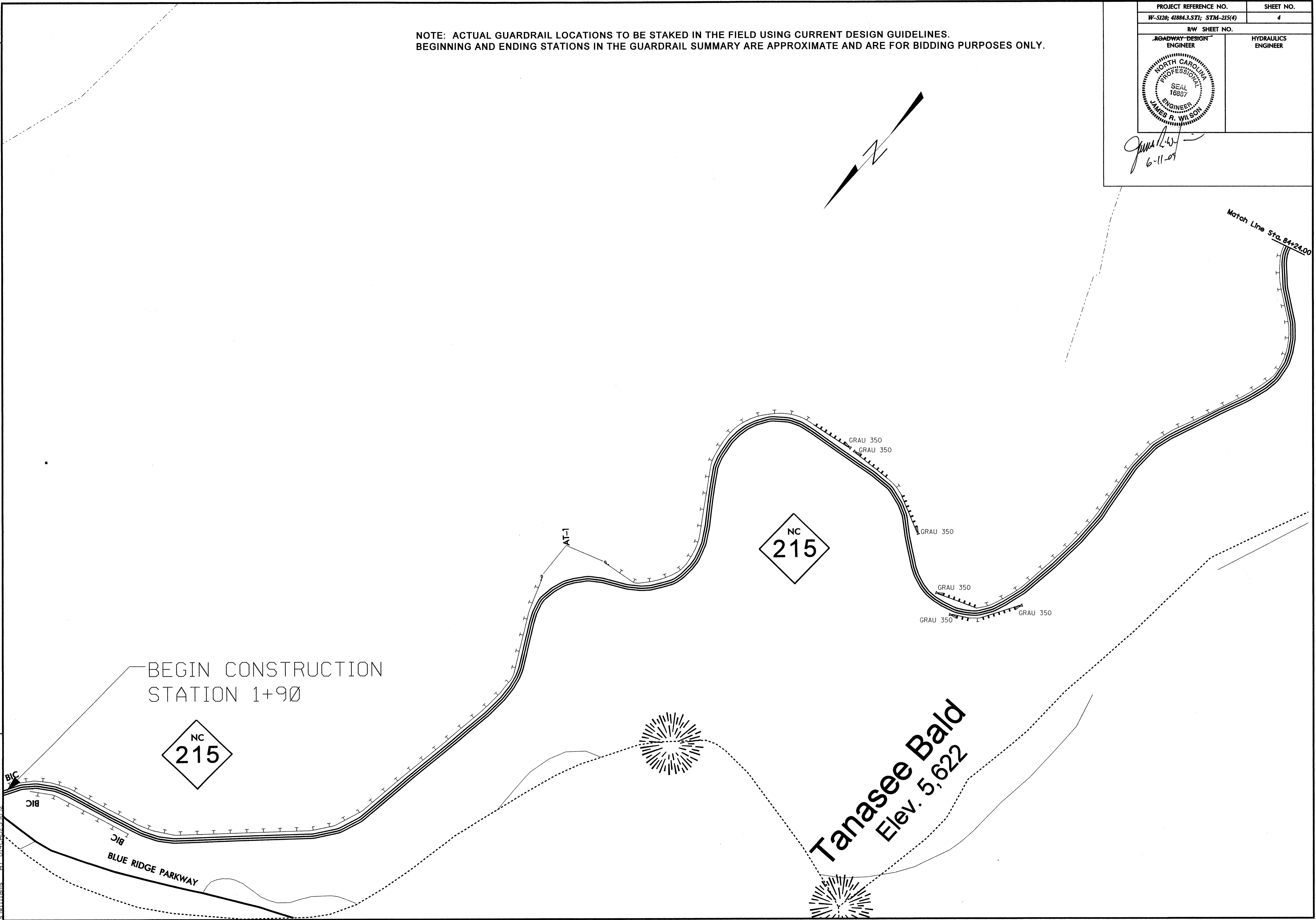
PROJECT REFERENCE NO. W-5120; 41884.3.ST1; STM-215(4)	SHEET NO. 4
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER



*James R. Wilson*  
6-11-09

REVISIONS

14-MAY-2009 11:45  
 us:\w-5120\maps\w-5120-rdly-esh-sheet4.dgn  
 s.williams AT 1460235653



**Tanasee Bald**  
 Elev. 5,622

BLUE RIDGE PARKWAY

BEGIN CONSTRUCTION  
 STATION 1+90

NC  
 215

NC  
 215

Match Line Sta. 84+24.00

GRAU 350  
 GRAU 350

GRAU 350

GRAU 350

GRAU 350

GRAU 350

AT-1

B/C

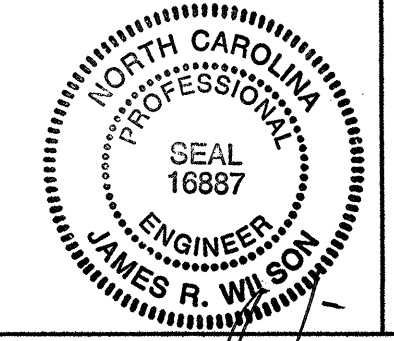
B/C

B/C

8/17/99

NOTE: ACTUAL GUARDRAIL LOCATIONS TO BE STAKED IN THE FIELD USING CURRENT DESIGN GUIDELINES.  
BEGINNING AND ENDING STATIONS IN THE GUARDRAIL SUMMARY ARE APPROXIMATE AND ARE FOR BIDDING PURPOSES ONLY.

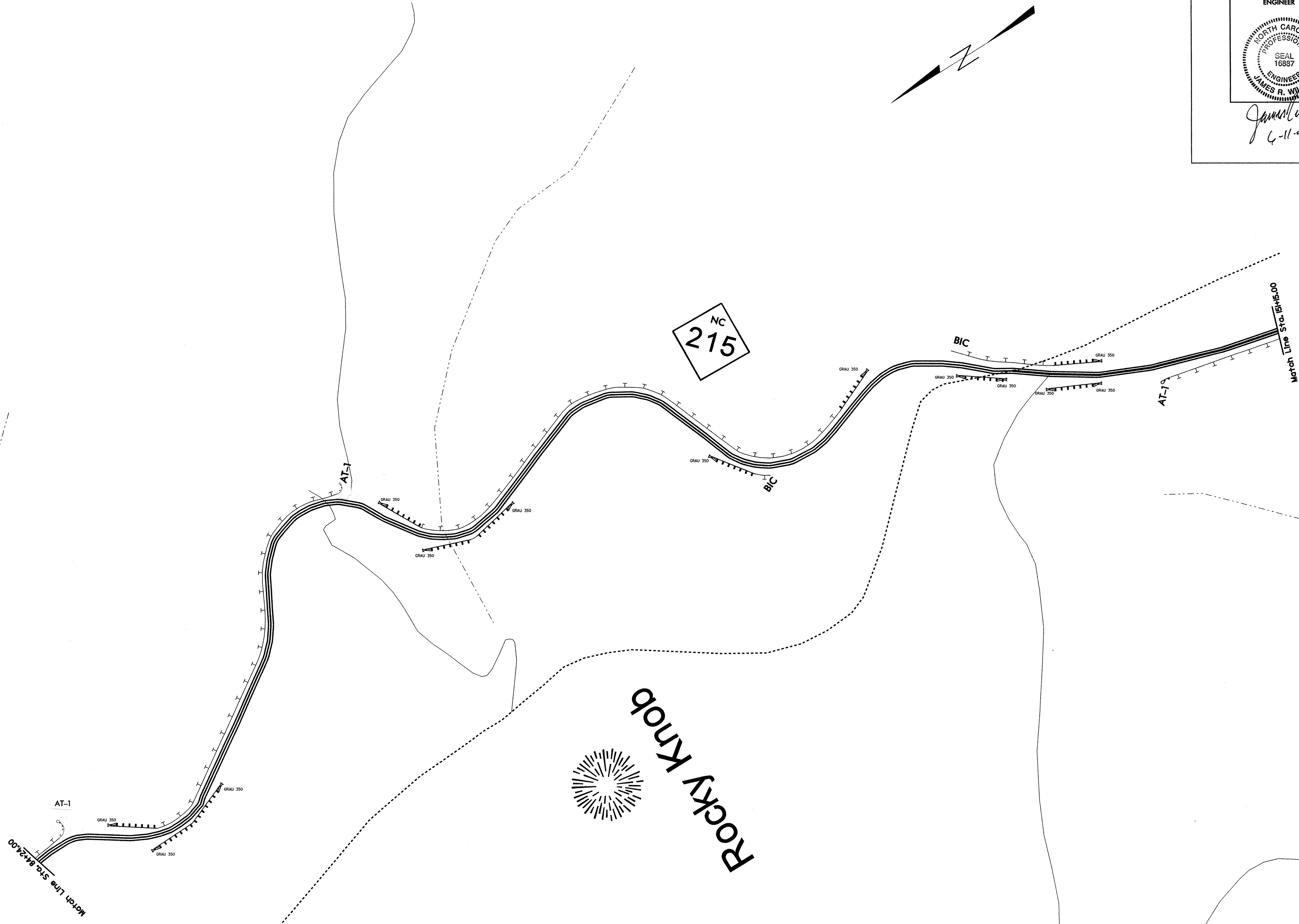
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RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER



*James R. Wilson*  
4-11-09

REVISIONS

14-MAY-2009 11:42  
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8/17/99

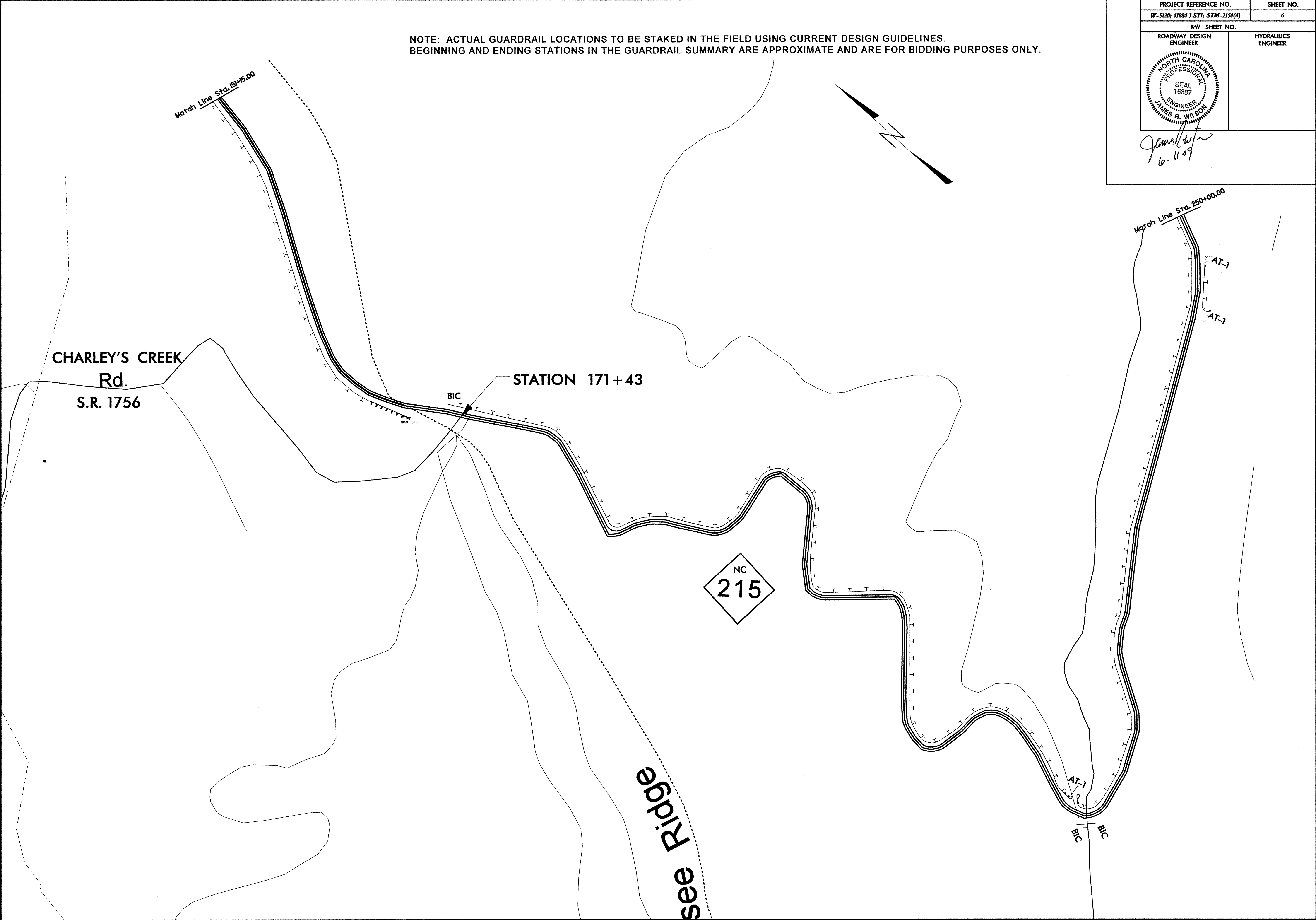
PROJECT REFERENCE NO. W-5120; 41884.3.ST1; STM-2154(4)	SHEET NO. 6
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

*James R. Wilson*  
6.11.09

NOTE: ACTUAL GUARDRAIL LOCATIONS TO BE STAKED IN THE FIELD USING CURRENT DESIGN GUIDELINES. BEGINNING AND ENDING STATIONS IN THE GUARDRAIL SUMMARY ARE APPROXIMATE AND ARE FOR BIDDING PURPOSES ONLY.

REVISIONS

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a.williams AT 11/11/09



see Ridge

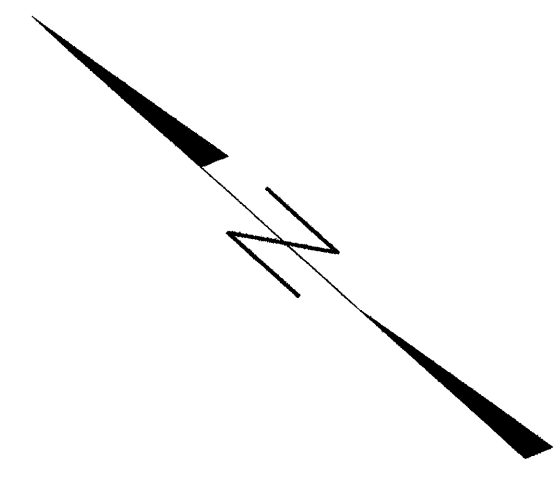
CHARLEY'S CREEK  
Rd.  
S.R. 1756

STATION 171+43

NC  
215

Match Line Sta. 19+15.00

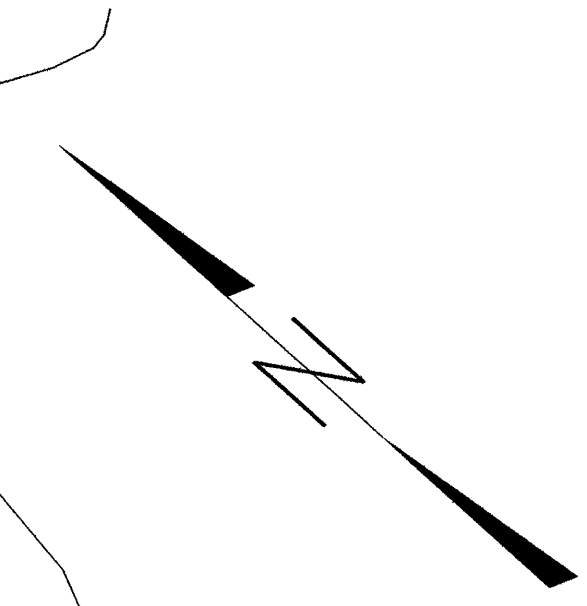
Match Line Sta. 250+00.00



PROJECT REFERENCE NO.	SHEET NO.
W-5120; 41884.3, ST1; STM-215 (4)	7
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

*James R. Wilson*  
6-11-09

NOTE: ACTUAL GUARDRAIL LOCATIONS TO BE STAKED IN THE FIELD USING CURRENT DESIGN GUIDELINES.  
BEGINNING AND ENDING STATIONS IN THE GUARDRAIL SUMMARY ARE APPROXIMATE AND ARE FOR BIDDING PURPOSES ONLY.



ATTACH TO EX. G.R.  
III MOD

ATTACH TO EXISTING GRAU 350

BRIDGE NO. 73  
STA 283+50

ATTACH TO EXISTING

ATTACH TO EX. G.R.

Match Line Sta. 329+59.00

Match Line Sta. 250+00.00

B/C  
B/C

AT-1  
AT-1

8/17/99

REVISIONS

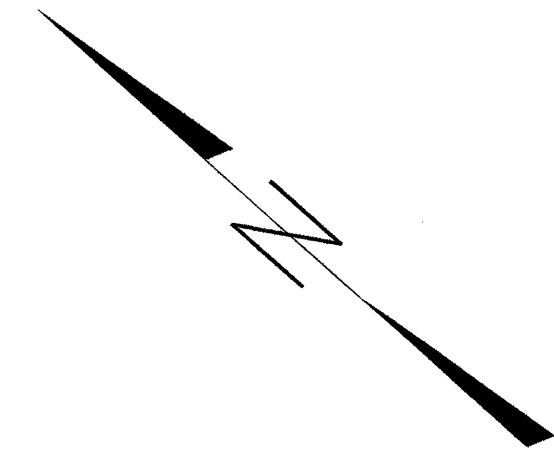
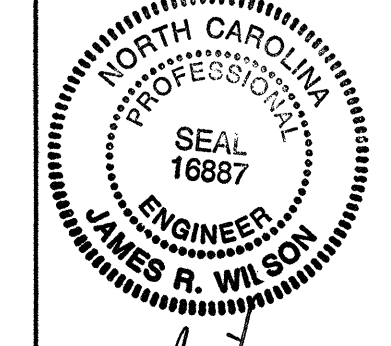
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8/17/09

NOTE: ACTUAL GUARDRAIL LOCATIONS TO BE STAKED IN THE FIELD USING CURRENT DESIGN GUIDELINES.  
BEGINNING AND ENDING STATIONS IN THE GUARDRAIL SUMMARY ARE APPROXIMATE AND ARE FOR BIDDING PURPOSES ONLY.

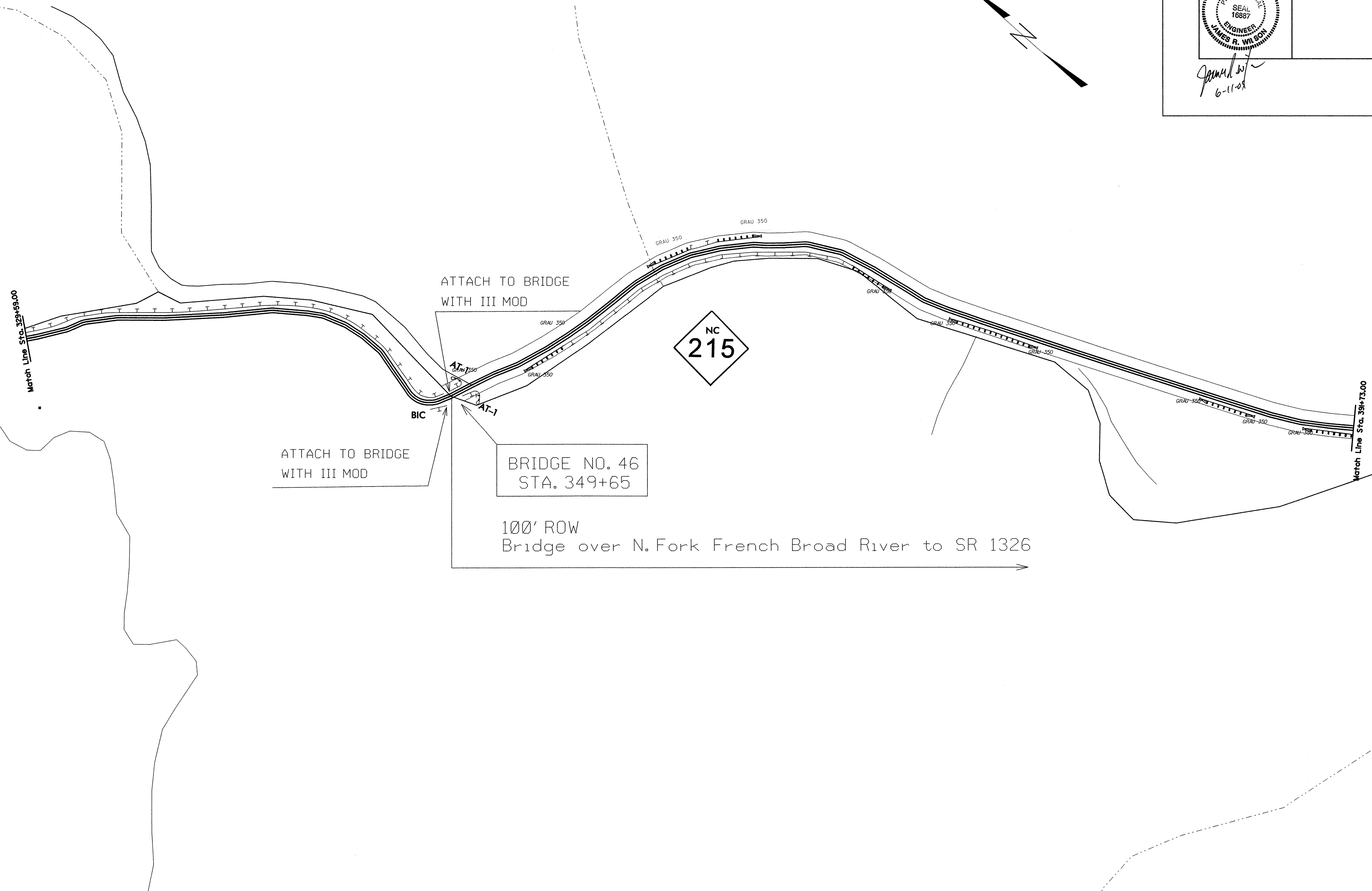
PROJECT REFERENCE NO. W-5120; 41884.3.STI; STM-215(4)	SHEET NO. 8
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

*James A. Wilson*  
6-11-08



REVISIONS

Match Line Sta. 329+59.00



ATTACH TO BRIDGE WITH III MOD

ATTACH TO BRIDGE WITH III MOD

BRIDGE NO. 46  
STA. 349+65

100' ROW  
Bridge over N. Fork French Broad River to SR 1326

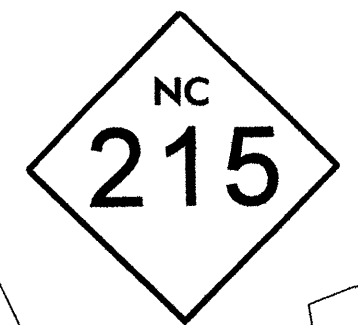
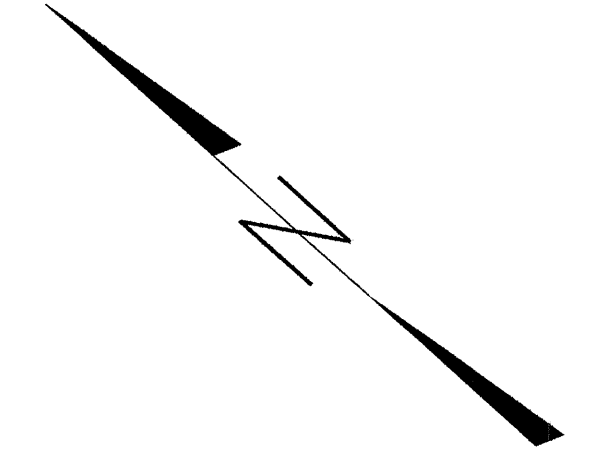
Match Line Sta. 391+73.00

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AT-1

PROJECT REFERENCE NO. W-5120; 41884.3.ST1; STM-215 '4)	SHEET NO. 9
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

*James R. Wilson*  
6-11-09

NOTE: ACTUAL GUARDRAIL LOCATIONS TO BE STAKED IN THE FIELD USING CURRENT DESIGN GUIDELINES. BEGINNING AND ENDING STATIONS IN THE GUARDRAIL SUMMARY ARE APPROXIMATE AND ARE FOR BIDDING PURPOSES ONLY.



STA. 413+30

INDIAN CREEK RD  
SR 1321

Match Line Sta. 391+73.00

AT-1

BIC

STA. 442+00

STA. 459+90

Match Line Sta. 460+50.00

AT-1

TANASEE GAP RD.  
SR 1324

100' ROW  
Bridge over N. Fork French Broad River to SR 1326

REVISIONS

8/17/99

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s.williams AT D:\41884\3\5120

8/17/99

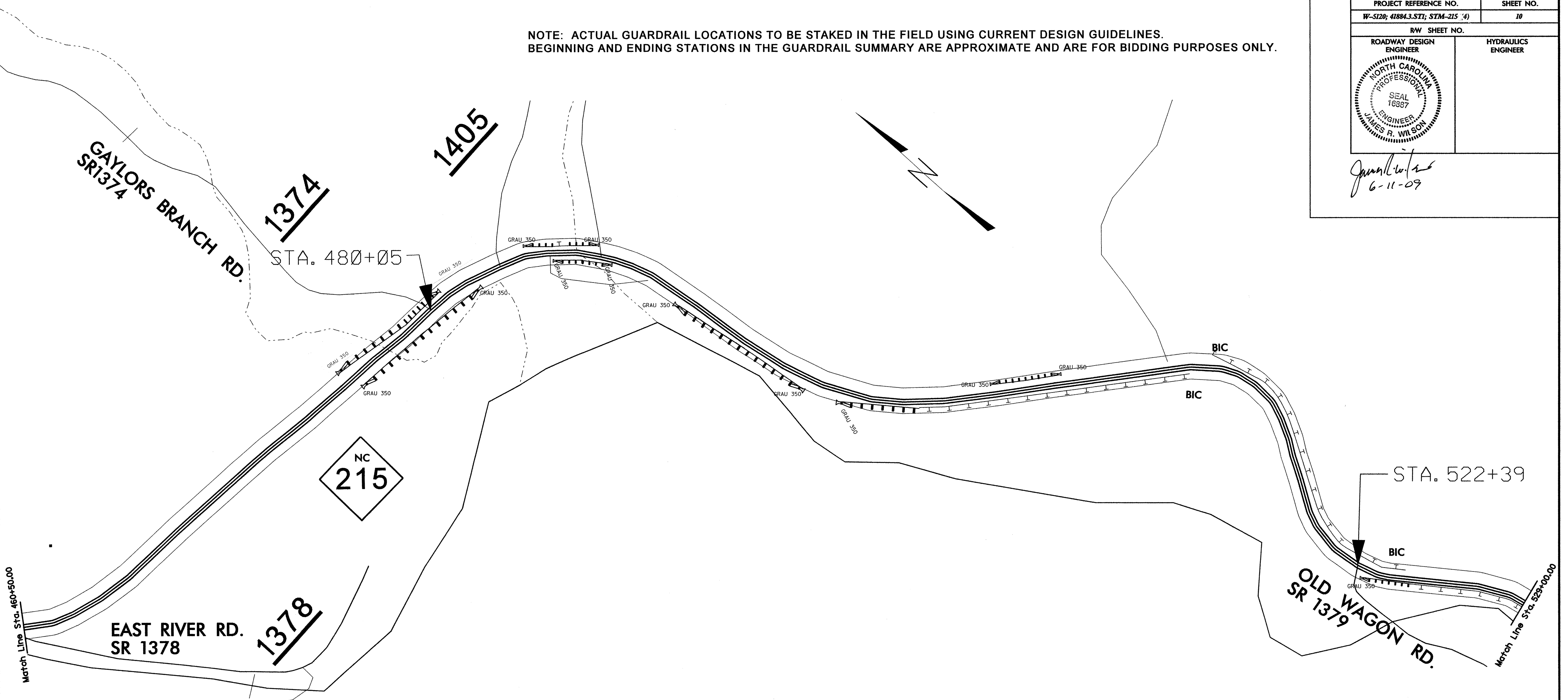
NOTE: ACTUAL GUARDRAIL LOCATIONS TO BE STAKED IN THE FIELD USING CURRENT DESIGN GUIDELINES. BEGINNING AND ENDING STATIONS IN THE GUARDRAIL SUMMARY ARE APPROXIMATE AND ARE FOR BIDDING PURPOSES ONLY.

PROJECT REFERENCE NO. W-S126; 41884.3-ST1; STA-215 'A)	SHEET NO. 10
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

*James R. Wilson*  
6-11-09



REVISIONS




100' ROW  
 Bridge over N. Fork French Broad River to SR 1326

14-MAY-2009 11:14  
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 15126.dwg

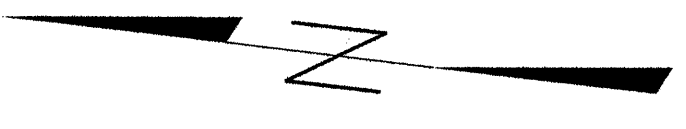


8/17/99

PROJECT REFERENCE NO.		SHEET NO.	
W-5126; 41884.3.ST1; STM-215 (4)		II	
RW SHEET NO.			
ROADWAY DESIGN ENGINEER		HYDRAULICS ENGINEER	
			

*James R. Wilson*  
6-11-09

NOTE: ACTUAL GUARDRAIL LOCATIONS TO BE STAKED IN THE FIELD USING CURRENT DESIGN GUIDELINES. BEGINNING AND ENDING STATIONS IN THE GUARDRAIL SUMMARY ARE APPROXIMATE AND ARE FOR BIDDING PURPOSES



PROPOSED R-2594  
NEW ROUTE

100' ROW  
Bridge over N. Fork French Broad River to SR 1326



STA. 581+17

OLD WAGON RD.  
SR 1379

SR 1326  
MACEDONIA CHURCH RD.

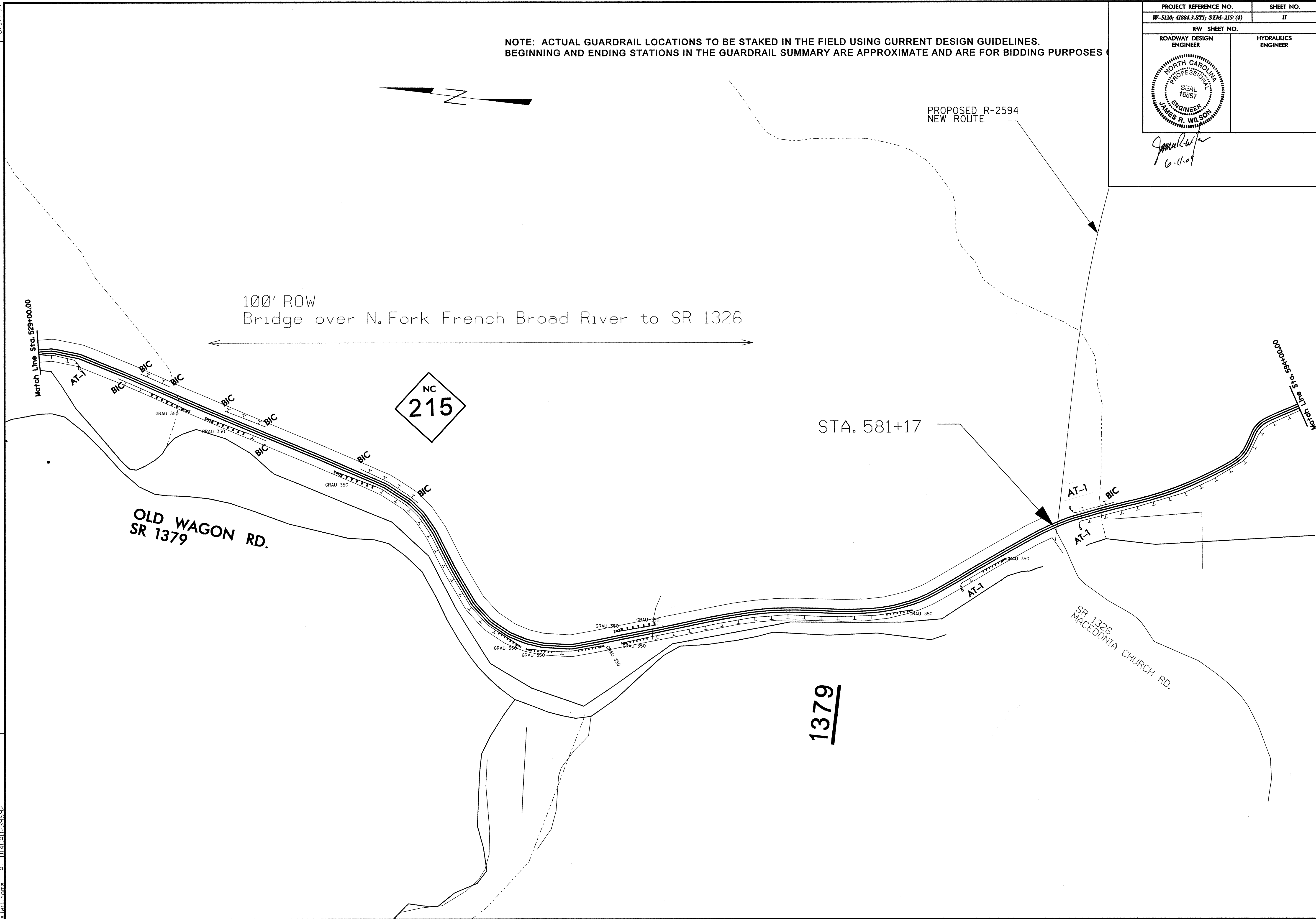
1379

Match Line Sta. 529+00.00

Match Line Sta. 584+00.00

REVISIONS

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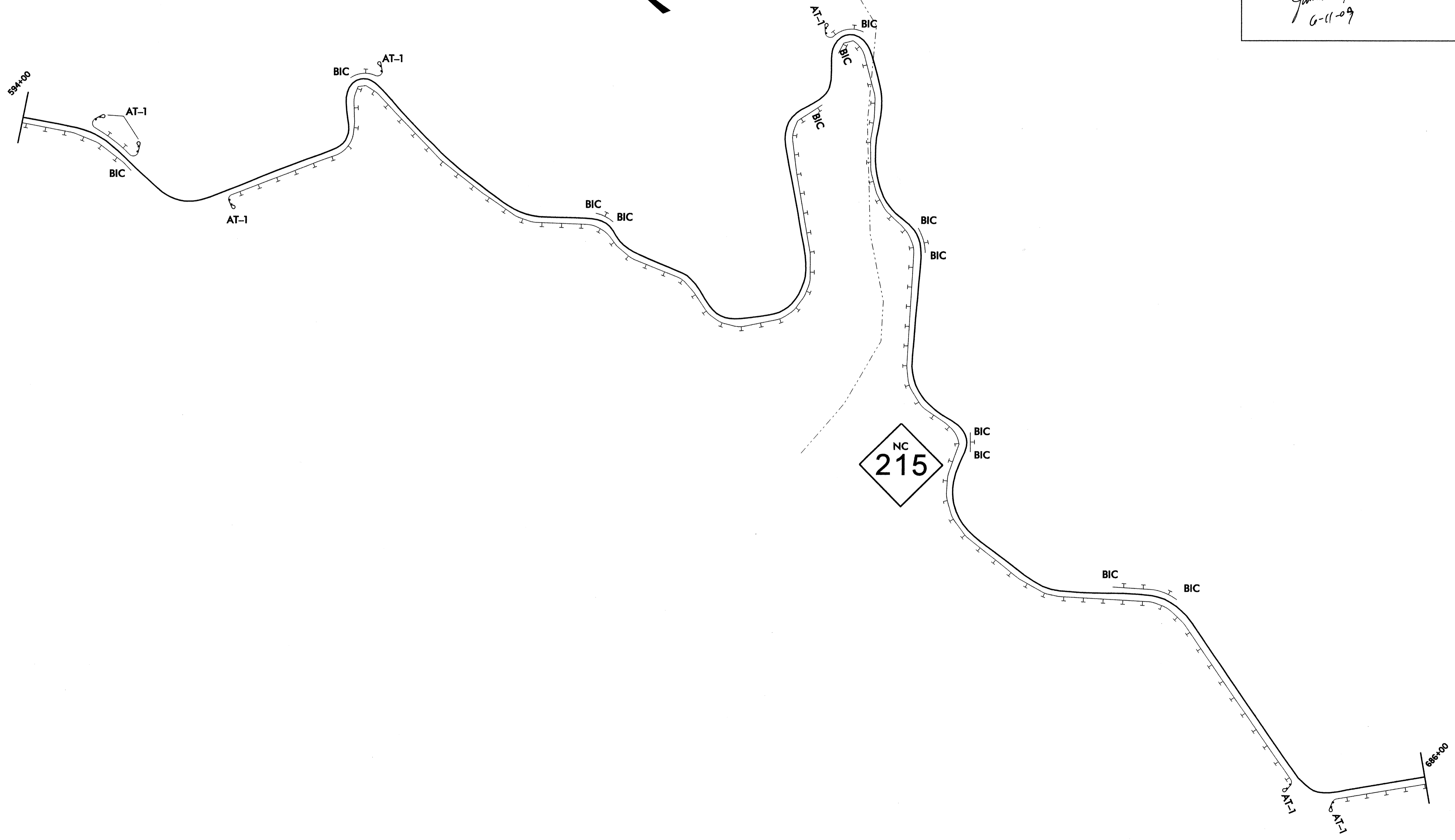
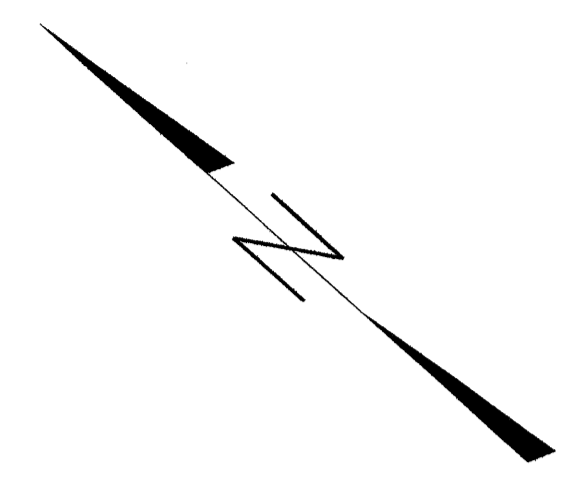


8/17/99

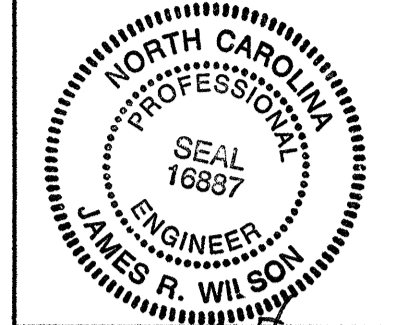
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s.williams AT-D14CAD2385P

REVISIONS

NOTE: ACTUAL GUARDRAIL LOCATIONS TO BE STAKED IN THE FIELD USING CURRENT DESIGN GUIDELINES.  
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PROJECT REFERENCE NO.		SHEET NO.	
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RW SHEET NO.			
ROADWAY DESIGN ENGINEER		HYDRAULICS ENGINEER	



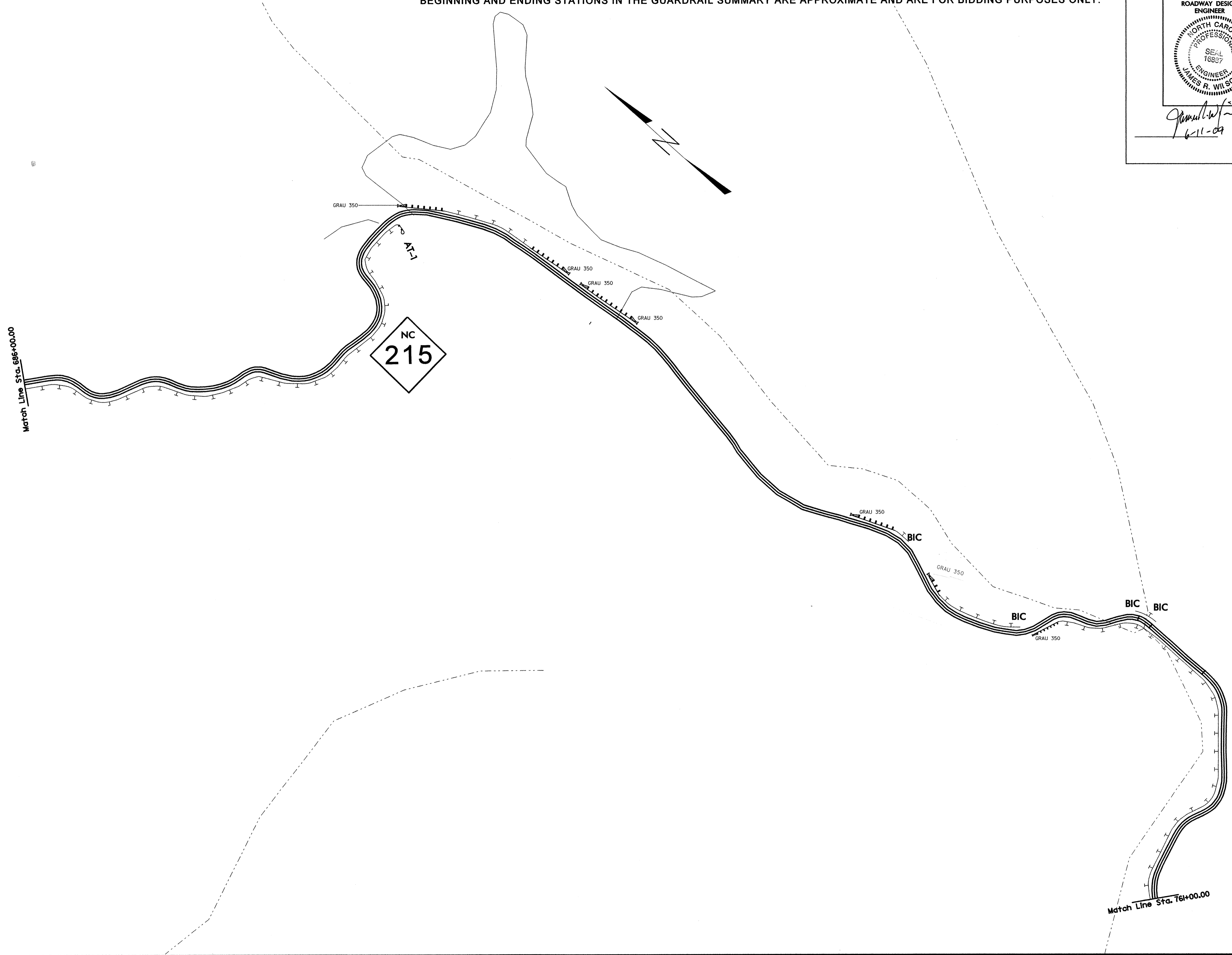
*James R. Wilson*  
6-11-09

8/17/99

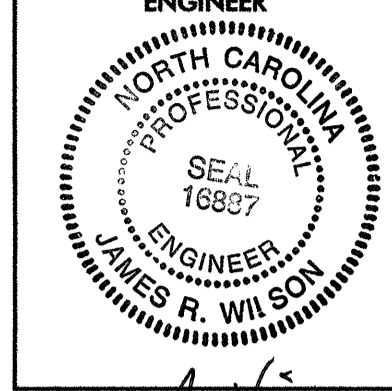
REVISIONS

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NOTE: ACTUAL GUARDRAIL LOCATIONS TO BE STAKED IN THE FIELD USING CURRENT DESIGN GUIDELINES.  
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PROJECT REFERENCE NO. W-5126; 41884.3 ST1; STM-215 (4)	SHEET NO. 13
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

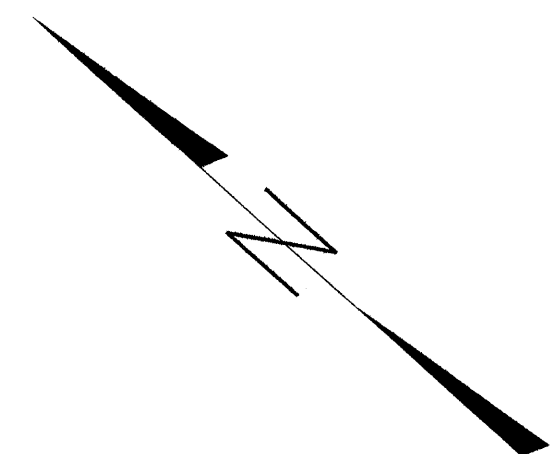


*J. Wilson*  
6-11-09

NOTE: ACTUAL GUARDRAIL LOCATIONS TO BE STAKED IN THE FIELD USING CURRENT DESIGN GUIDELINES.  
BEGINNING AND ENDING STATIONS IN THE GUARDRAIL SUMMARY ARE APPROXIMATE AND ARE FOR BIDDING PURPOSES ONLY.

PROJECT REFERENCE NO. W-5120; 41884.3.ST1; STM-215 (4)		SHEET NO. 4
RW SHEET NO.		HYDRAULICS ENGINEER
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER	

  
 [Signature]  
 6-11-09



Match Line Sta. 761+00.00



ATTACH TO EX. G.R.

GRAU 350

AT-1

Match Line Sta. 827+00.00

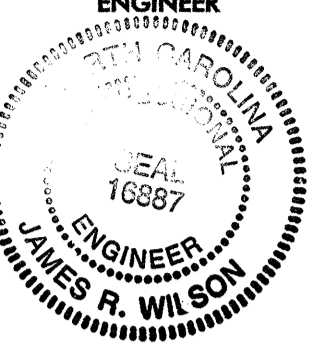
REVISIONS

8/17/99

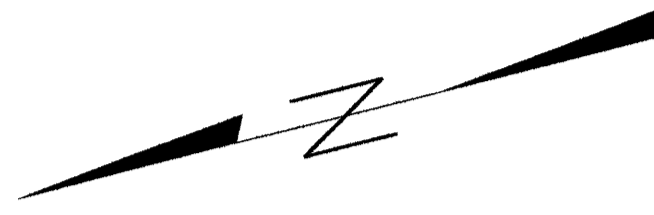
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8/17/99

NOTE: ACTUAL GUARDRAIL LOCATIONS TO BE STAKED IN THE FIELD USING CURRENT DESIGN GUIDELINES.  
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PROJECT REFERENCE NO.	SHEET NO.
W-5120; 41884.3.ST1; STM-215 (4)	15
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
	

*James R. Wilson*  
6-11-07



Match Line to 87+00.00

GRAU 350

GRAU 350



STA 854+74

B/C

GRAU 350

GRAU 350

GRAU 350

A-1

A-1

END CONSTRUCTION  
890+00

GRAU 350

GRAU 350

GRAU 350



REVISIONS

14-MAY-2009 14:05  
11:51:20  
s:\williams