

SECTION 905 -- PROPOSAL (CONTINUED)

I (We) further propose to execute the attached contract agreement (Section 902) as soon as the work is awarded to me (us), and to begin and complete the work within the time limit(s) provided for in the Specifications and Advertisement. I (We) also propose to execute the attached contract bond (Section 903) in an amount not less than one hundred (100) percent of the total of my (our) part, but also to guarantee the excellence of both workmanship and materials until the work is finally accepted.

I (We) enclose a certified check, cashier's check or bid bond for **five percent (5%) of total bid** and hereby agree that in case of my (our) failure to execute the contract and furnish bond within Ten (10) days after notice of award, the amount of this check (bid bond) will be forfeited to the State of Mississippi as liquidated damages arising out of my (our) failure to execute the contract as proposed. It is understood that in case I am (we are) not awarded the work, the check will be returned as provided in the Specifications.

Bidder acknowledges receipt of and has added to and made a part of the proposal and contract documents the following addendum (addenda):

ADDENDUM NO. 1 DATED 4/16/2007 ADDENDUM NO. _____ DATED _____
 ADDENDUM NO. _____ DATED _____ ADDENDUM NO. _____ DATED _____

Number	Description
1	Replace Table of Contents with same; add Supplement to Notice to Bidders No. 1339; replace bid sheets with same; replace progress schedule with same; requires a revised project diskette.

TOTAL ADDENDA: 1
 (Must agree with total addenda issued prior to opening of bids)

Respectfully Submitted,

DATE _____

 Contractor

BY _____
 Signature

TITLE _____

ADDRESS _____

CITY, STATE, ZIP _____

PHONE _____

FAX _____

E-MAIL _____

(To be filled in if a corporation)

Our corporation is chartered under the Laws of the State of _____ and the names, titles and business addresses of the executives are as follows:

_____ resident	_____ Address
_____ Secretary	_____ Address
_____ Treasurer	_____ Address

The following is my (our) itemized proposal.

STP-2175-00(011)MP / 104722301

Pike County(ies)

MISSISSIPPI DEPARTMENT OF TRANSPORTATION

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 Tanks, W/Attachments - # 2
 Final Cleanup - # 3
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SECTION 905 - PROPOSAL,
PROPOSAL SHEET NOS. 2-1 THRU 2-5,
COMBINATION BID PROPOSAL,
CERTIFICATE OF PERFORMANCE - PRIOR FEDERAL-AID CONTRACTS,
NON-COLLUSION CERTIFICATE,
SECTION 902 - CONTRACT FORM, AND SECTION 903 - CONTRACT BOND FORM,
OCR-485,
PROGRESS SCHEDULE,
HAUL PERMIT FOR BRIDGES WITH POSTED WEIGHT LIMITS.

(REVISIONS TO THE ABOVE WILL BE INDICATED ON THE SECOND SHEET
OF SECTION 905 AS ADDENDA)

MISSISSIPPI DEPARTMENT OF TRANSPORTATION

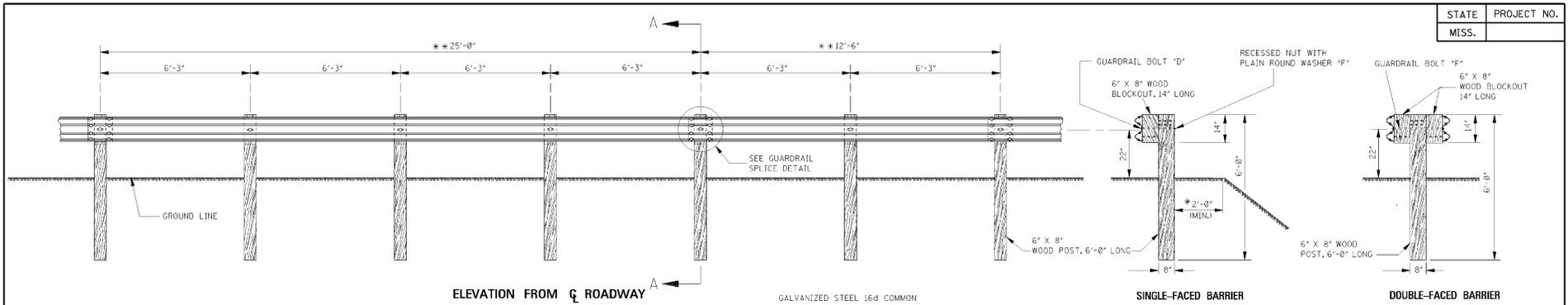
SUPPLEMENT TO NOTICE TO BIDDERS NO. 1339

DATE: 04/11/2007

PROJECT: STP-2175-00(011)MP / 104722301 -- Pike County

After the last drawing of Notice To Bidders No. 1339, add the attached drawing(s).

STATE	PROJECT NO.
MISS.	



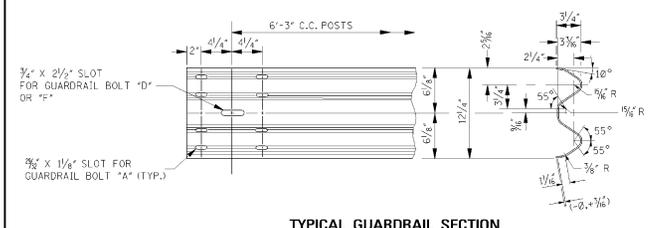
ELEVATION FROM ROADWAY
 ** NOTE: OPTIONAL BEAM LENGTHS.

SINGLE-FACED BARRIER

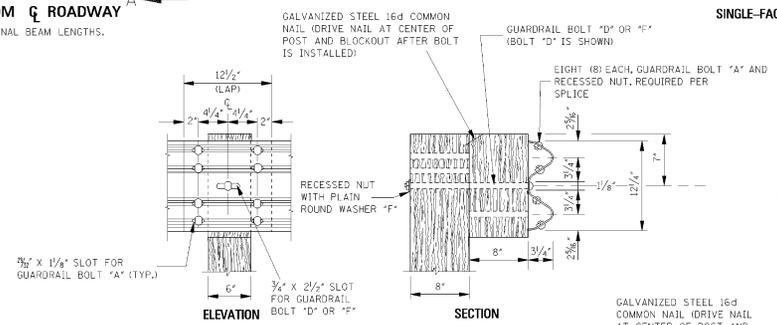
DOUBLE-FACED BARRIER

SECTION A-A

* NOTE: UNLESS SPECIFIED OTHERWISE ON THE PLANS.



TYPICAL GUARDRAIL SECTION



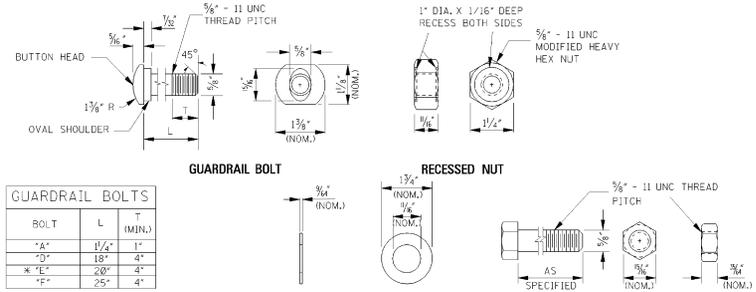
ELEVATION

SECTION

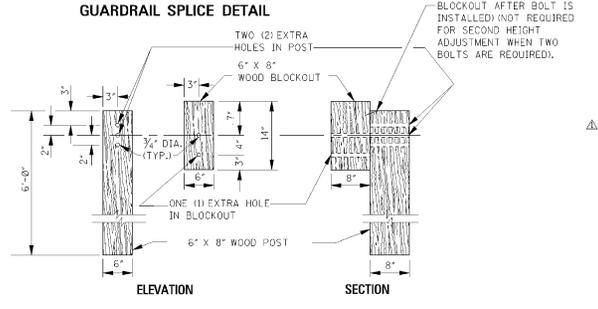
GUARDRAIL SPLICE DETAIL

GENERAL NOTES:

- GUARDRAIL SHALL MEET THE REQUIREMENTS OF AASHTO M 180, CLASS A, TYPE 1 UNLESS OTHERWISE DESIGNATED.
- GUARDRAIL SHALL BE SINGLE FACED UNLESS OTHERWISE DESIGNATED.
- GUARDRAIL SECTIONS SHALL BE LAPPED IN THE DIRECTION OF TRAFFIC FLOW FOR THE LANE NEAREST THE GUARDRAIL. THE ONLY EXCEPTION NOTED IS THAT GUARDRAIL IS TO BE LAPPED FOR APPROACHING TRAFFIC ON A BRIDGE WITH 2-WAY TRAFFIC.
- ALL WOOD POSTS AND BLOCKOUTS SHALL BE TREATED TIMBER IN ACCORDANCE WITH MISSISSIPPI DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS.
- FOR OTHER DETAILS OF POSTS, POST ACCESSORIES, FASTENERS & RAIL ELEMENTS, SEE AASHTO-AGC-ARTBA JOINT TASK FORCE NO.13, TITLED "A-GUIDE TO STANDARDIZED HIGHWAY BARRIER HARDWARE," LATEST EDITION.
- OTHER POSTS AND/OR BLOCKOUTS THAT HAVE MET THE REQUIREMENTS OF THE LATEST INDUSTRY GUIDELINES AND HAVE RECEIVED LETTERS OF APPROVAL FROM THE FEDERAL HIGHWAY ADMINISTRATION AND MISSISSIPPI DEPARTMENT OF TRANSPORTATION MAY BE USED IN LIEU OF THE POST AND BLOCKOUT SHOWN ON THIS STANDARD.



FASTENER DETAILS

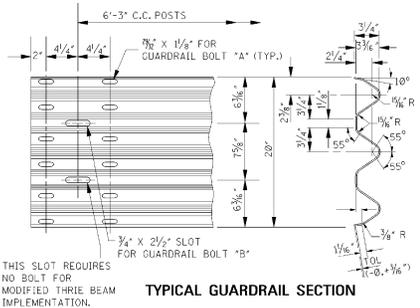
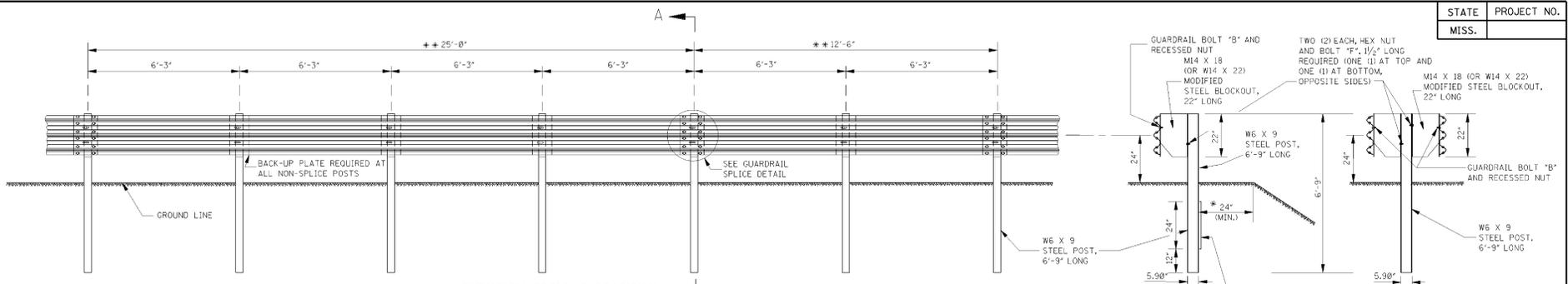


DETAILS OF ADJUSTABLE HEIGHT BLOCKOUT ASSEMBLY

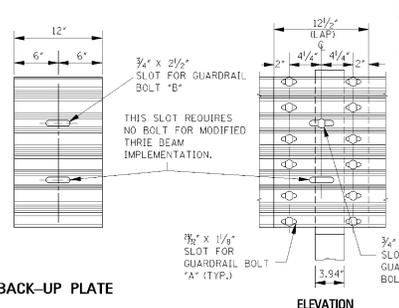
- NOTES:
- ON INITIAL INSTALLATION, THE BLOCKOUT SHALL BE ATTACHED TO THE BOTTOM HOLE IN THE POST, OTHER HOLES IN THE POST AND BLOCKOUT ARE FOR FUTURE 2" HEIGHT ADJUSTMENT WHEN THE ROADWAY IS RESURFACED.
 - FOR THE SECOND HEIGHT ADJUSTMENT, ONE (1) HEX NUT AND BOLT "F", 18" LONG FOR SINGLE-FACED BARRIER OR 25" LONG FOR DOUBLE-FACED BARRIER, WITH TWO (2) PLAIN ROUND WASHERS "F", ONE (1) UNDER HEAD AND ONE (1) UNDER NUT, ARE REQUIRED PER POST IN ADDITION TO THE STANDARD GUARDRAIL BOLT AND RECESSED NUT.
 - HOLE DETAILS ARE REQUIRED ON ALL WOOD POSTS AND BLOCKOUTS.
 - WOOD POSTS AND BLOCKOUTS ARE FABRICATED FROM 6" X 8" TREATED TIMBER UNLESS SPECIFIED OTHERWISE ON THE PLANS.
 - ALL HOLES IN BOTH POSTS AND BLOCKOUTS ARE 3/4" IN DIAMETER.

DATE	ISSUE DATE:	OCTOBER 1, 1998
BY	MISSISSIPPI DEPARTMENT OF TRANSPORTATION ROADWAY DESIGN DIVISION STANDARD PLAN	
REVISION	GUARDRAIL: "W" BEAM (WOOD POSTS)	
NUMBER	WORKING NUMBER: GR-1	
DATE	SHEET NUMBER: 180	

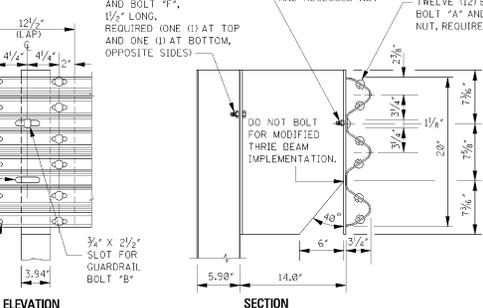
STATE	PROJECT NO.
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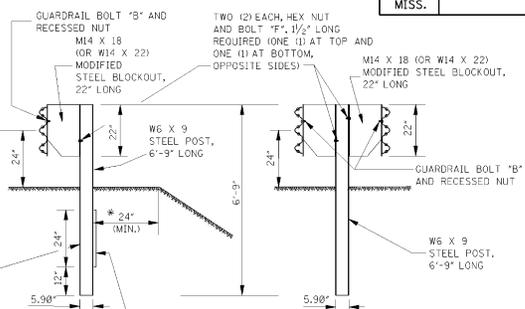
TYPICAL GUARDRAIL SECTION



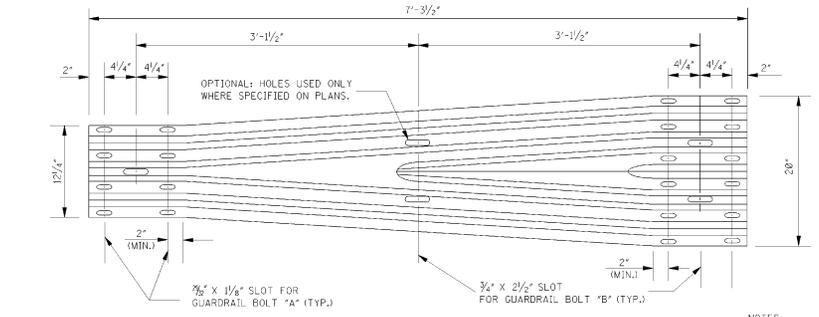
BACK-UP PLATE



GUARDRAIL SPLICE DETAIL

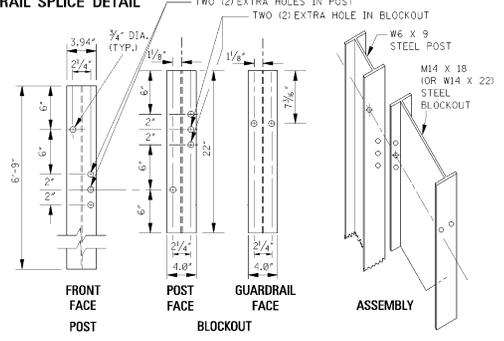


SECTION A-A



"W" THRIE-BEAM TRANSITION SECTION

NOTE: THE CROSS-SECTIONAL DIMENSIONS FOR THE "W" AND THRIE BEAM ENDS OF THE TRANSITION SECTION ARE THE SAME AS THEIR RESPECTIVE TYPICAL GUARDRAIL SECTIONS.



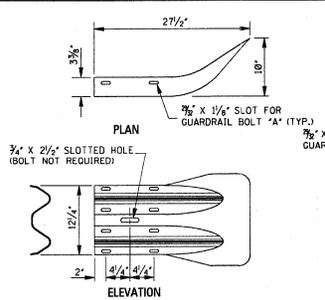
DETAILS OF ADJUSTABLE HEIGHT BLOCKOUT ASSEMBLY

- NOTES:
- ON INITIAL INSTALLATION, THE TOP HOLE IN THE BLOCKOUT SHALL BE FASTENED TO THE TOP HOLE IN THE POST. OTHER HOLES IN THE POST AND BLOCKOUT ARE FOR FUTURE 2" HEIGHT ADJUSTMENTS WHEN THE ROADWAY IS RESURFACED.
 - HOLE DETAILS ARE REQUIRED ON ALL STEEL POSTS AND BLOCKOUTS.
 - STEEL POSTS AND BLOCKOUTS ARE FABRICATED FROM W6 X 9 AND M14 X 18 (OR W14 X 22) STRUCTURAL STEEL SHAPES, RESPECTIVELY.
 - ALL HOLES IN BOTH POSTS AND BLOCKOUTS ARE 3/4" IN DIAMETER.

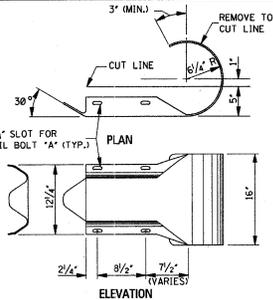
- GENERAL NOTES:
- GUARDRAIL SHALL MEET THE REQUIREMENTS OF AASHTO M 180, CLASS A, TYPE I UNLESS OTHERWISE DESIGNATED.
 - GUARDRAIL SHALL BE SINGLE FACED UNLESS OTHERWISE DESIGNATED.
 - GUARDRAIL SECTIONS SHALL BE LAPPED IN THE DIRECTION OF TRAFFIC FLOW FOR THE LANE NEAREST THE GUARDRAIL. THE ONLY EXCEPTION NOTED IS THAT GUARDRAIL IS TO BE LAPPED FOR APPROACHING TRAFFIC ON A BRIDGE WITH 2-WAY TRAFFIC.
 - POSTS AND BLOCKOUTS SHALL CONFORM TO AASHTO M 183/M 183 OR ASTM A 769/A 769M (EXCEPT ULTRASONIC TESTING). THEY SHALL BE GALVANIZED IN ACCORDANCE WITH AASHTO M 311 EXCEPT WHEN CORROSION RESISTANT STEEL POSTS ARE REQUIRED IN WHICH CASE BOTH POSTS AND BLOCKOUTS SHALL CONFORM TO AASHTO M 222/M 222M AND SHALL NOT BE PAINTED OR GALVANIZED. NO PUNCHING DRILLING OR CUTTING WILL BE PERMITTED AFTER GALVANIZING EXCEPT FOR HOLES TO MOUNT GUARDRAIL DELINEATORS.
 - BACK-UP PLATE REQUIRED AT ALL NON-SPLICE POSTS.
 - FOR FASTENER DETAILS NOT FOUND ON THIS SHEET, SEE SHEET GR-18.
 - FOR OTHER DETAILS OF POSTS, POST ACCESSORIES, FASTENERS & RAIL ELEMENTS, SEE AASHTO-ACC-ARTBA JOINT TASK FORCE NO. 13, TITLED "A GUIDE TO STANDARDIZED HIGHWAY BARRIER HARDWARE," LATEST EDITION.
 - OTHER POSTS AND/OR BLOCKOUTS THAT HAVE MET THE REQUIREMENTS OF THE LATEST INDUSTRY GUIDELINES AND HAVE RECEIVED LETTERS OF APPROVAL FROM THE FEDERAL HIGHWAY ADMINISTRATION AND MISSISSIPPI DEPARTMENT OF TRANSPORTATION MAY BE USED IN LIEU OF THE POST AND BLOCKOUT SHOWN ON THIS STANDARD.

DATE	ISSUED	REVISION	MISSISSIPPI DEPARTMENT OF TRANSPORTATION ROADWAY DESIGN DIVISION STANDARD PLAN GUARDRAIL: MODIFIED THRIE BEAM (STEEL POSTS)	 WORKING NUMBER GR-1C SHEET NUMBER 183
	DATE	REVISION		
ISSUE DATE: OCTOBER 1, 1998				

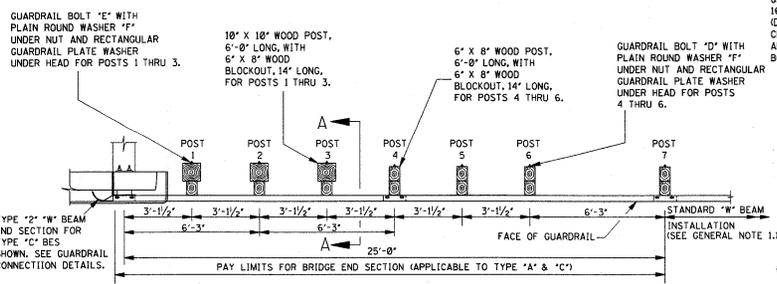
STATE PROJECT NO.
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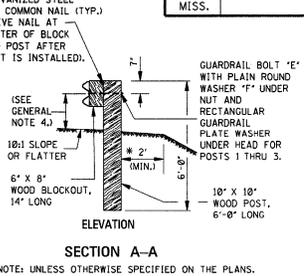
TYPE "1" "W" BEAM END SECTION
NOTE: THE TYPE "1" END SECTION IS THE STANDARD FLARED "W" BEAM END SECTION AND IS USED WITH THE TYPE "A" AND TYPE "E" BRIDGE END SECTIONS. THE CROSS-SECTIONAL DIMENSIONS OF THIS PART ARE IDENTICAL TO THOSE OF THE STANDARD "W" BEAM GUARDRAIL.



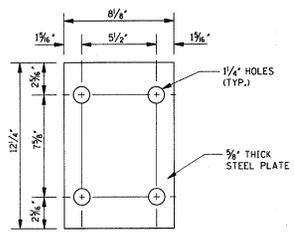
TYPE "2" "W" BEAM END SECTION
NOTE: THE TYPE "2" END SECTION IS A MODIFICATION OF THE STANDARD ROUNDED "W" BEAM END SECTION AND IS USED EXCLUSIVELY WITH THE TYPE "C" BRIDGE END SECTION. THE CROSS-SECTIONAL DIMENSIONS OF THIS PART ARE IDENTICAL TO THOSE OF THE STANDARD "W" BEAM GUARDRAIL.



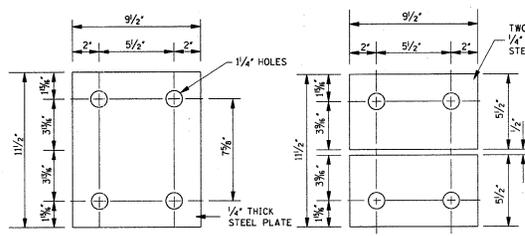
PLAN OF BRIDGE END SECTION
GUARDRAIL BOLT "E" WITH PLAIN ROUND WASHER "F" UNDER NUT AND RECTANGULAR GUARDRAIL PLATE WASHER UNDER HEAD FOR POSTS 1 THRU 3.
10' X 10' WOOD POST, 6'-0" LONG, WITH 6' X 8' WOOD BLOCKOUT, 14" LONG, FOR POSTS 1 THRU 3.
6' X 8' WOOD POST, 6'-0" LONG, WITH 6' X 8' WOOD BLOCKOUT, 14" LONG, FOR POSTS 4 THRU 6.
GUARDRAIL BOLT "D" WITH PLAIN ROUND WASHER "F" UNDER NUT AND RECTANGULAR GUARDRAIL PLATE WASHER UNDER HEAD FOR POSTS 4 THRU 6.
TYPE "2" "W" BEAM END SECTION FOR TYPE "C" BES. SHOWN, SEE GUARDRAIL CONNECTION DETAILS.
STANDARD "W" BEAM INSTALLATION (SEE GENERAL NOTE 1.)
PAY LIMITS FOR BRIDGE END SECTION (APPLICABLE TO TYPE "A" & "C")
FACE OF GUARDRAIL
25'-0"
25'-0"



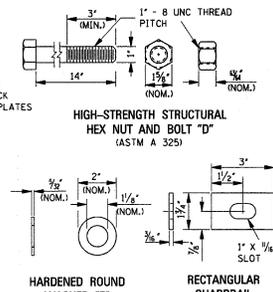
SECTION A-A
NOTE: UNLESS OTHERWISE SPECIFIED ON THE PLANS.



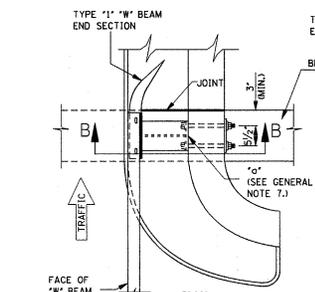
DETAIL OF PLATE "B"



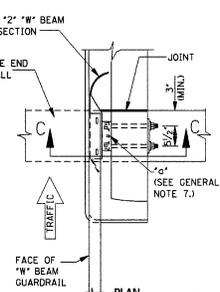
STANDARD ALTERNATIVE



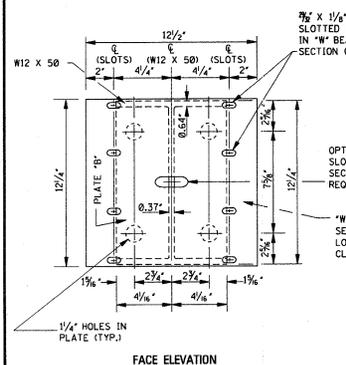
FASTENER DETAILS



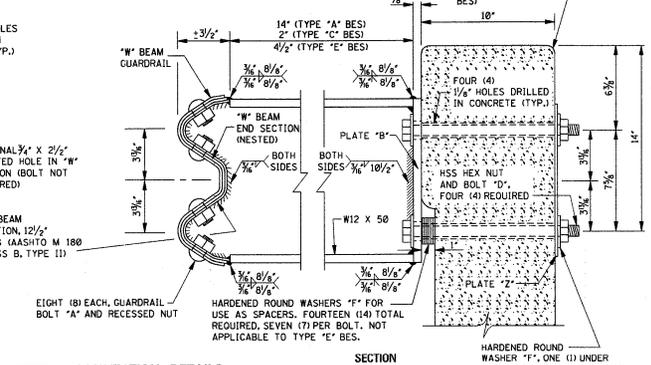
SECTION B-B



SECTION C-C



FACE ELEVATION



GUARDRAIL CONNECTION DETAILS

- GENERAL NOTES:**
1. ALL NOTES AND DETAILS PERTAINING TO NORMAL "W" BEAM GUARDRAIL INSTALLATION NOT SPECIFICALLY MODIFIED ON THIS SHEET WILL BE FOUND ON EITHER SHEET GR-1 (WOOD POSTS) OR GR-1B (STEEL POSTS).
 2. WOOD POSTS ARE SHOWN ON THIS SHEET. WHEN STEEL POSTS ARE INSTALLED, A SOIL BEARING PLATE IS PLACED ON THE STANDARD SIZE STEEL POST FOR POSTS 1 THRU 3 AND A RECTANGULAR GUARDRAIL PLATE WASHER IS PLACED UNDER THE STANDARD POST BOLT HEAD FOR POSTS 1 THRU 6. SEE DETAILS FOR STEEL POST INSTALLATIONS ON SHEET GR-1B.
 3. FOR INFORMATION PERTAINING TO THE INSTALLATION OF THE TYPE "E" BRIDGE END SECTION, SEE SHEET GR-2A.
 4. THE HEIGHT OF RAIL AT THE BRIDGE END IS 20 1/2" AND WILL BE TRANSITIONED TO 22" AT POST 7. THIS TRANSITION WILL BE A LINEAR TRANSITION IN THE VERTICAL PLANE.
 5. ALL GUARDRAIL ELEMENTS SHALL BE LAPPED IN THE DIRECTION OF TRAFFIC.
 6. THE APPLICATION OF THIS STANDARD IS FOR ONE-WAY TRAFFIC DIRECTION ONLY.
 7. POINT "a", WHICH IS AT THE CENTERLINE BETWEEN THE ANCHOR BOLTS, WILL BE CENTERED OVER THE CENTERLINE OF THE BRIDGE END WALL EXCEPT IN SAWED BRIDGE ENDS WHERE THE BOLT NEAREST THE JOINT WILL BE A MINIMUM OF 3" FROM THE JOINT.

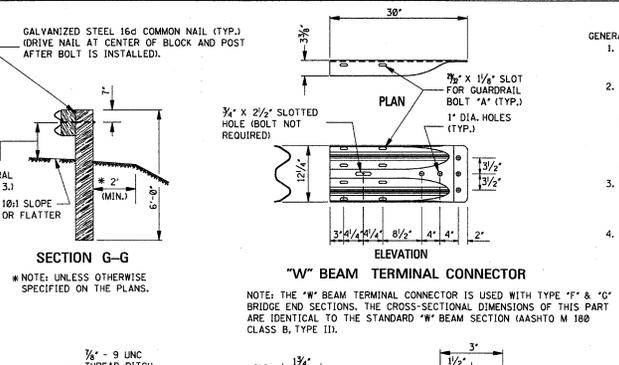
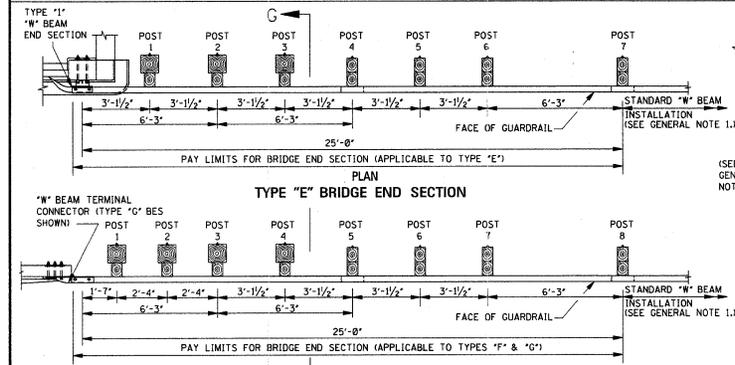
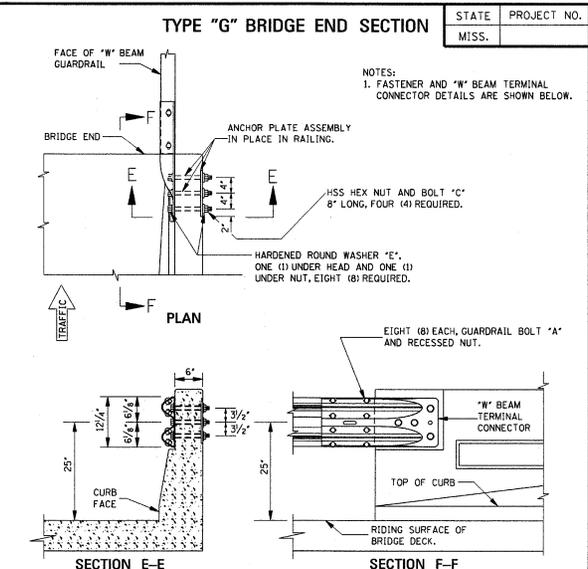
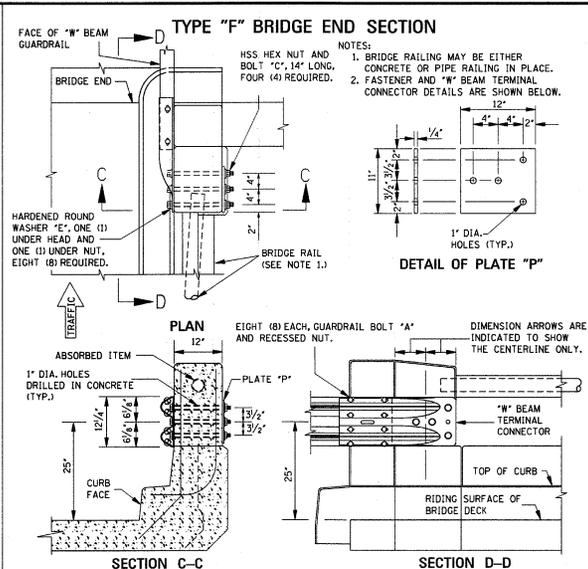
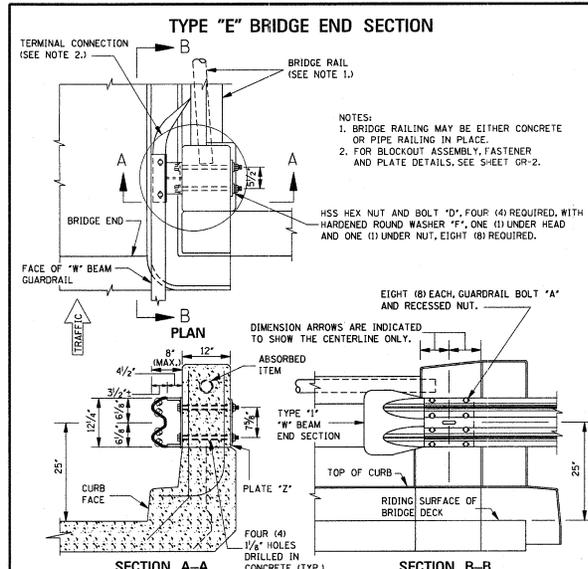
MISSISSIPPI DEPARTMENT OF TRANSPORTATION
ROADWAY DESIGN DIVISION
STANDARD PLAN

GUARDRAIL: BRIDGE END SECTIONS TYPE "A" & "C"

WORKING NUMBER CR-2
SHEET NUMBER 184

ISSUE DATE: OCTOBER 1, 1998

STATE	PROJECT NO.
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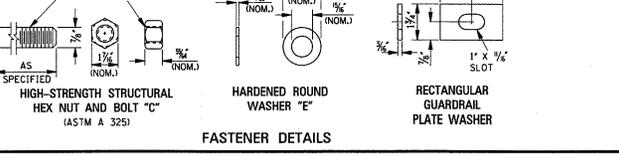


GENERAL NOTES:

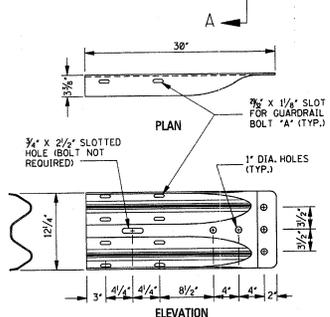
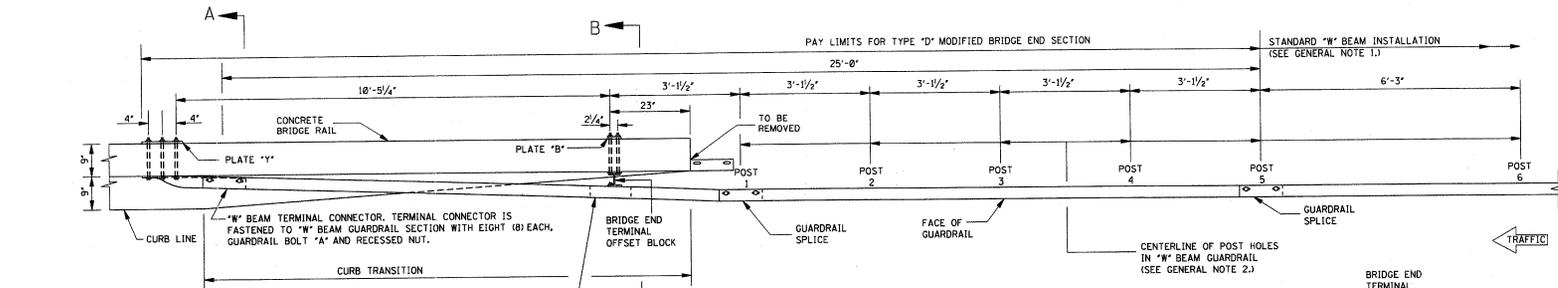
- ALL NOTES AND DETAILS PERTAINING TO NORMAL "W" BEAM GUARDRAIL INSTALLATION NOT SPECIFICALLY MODIFIED ON THIS SHEET WILL BE FOUND ON EITHER SHEET GR-1 (WOOD POSTS) OR GR-1B (STEEL POSTS).
- WOOD POSTS ARE SHOWN ON THIS SHEET. WHEN STEEL POSTS ARE INSTALLED, A SOIL BEARING PLATE IS PLACED ON THE STANDARD SIZE STEEL POST FOR POSTS 1 THRU 3 IN THE TYPE "E" BES AND FOR POSTS 1 THRU 4 IN THE TYPE "F" & "G" BES. A RECTANGULAR GUARDRAIL PLATE WASHER IS PLACED UNDER THE STANDARD POST BOLT HEAD FOR POSTS 1 THRU 6 IN THE TYPE "E" BES AND FOR POSTS 1 THRU 7 IN THE TYPE "F" & "G" BES. SEE DETAILS FOR STEEL POST INSTALLATION ON SHEET GR-1B.
- THE HEIGHT OF RAIL AT THE BRIDGE END IS 25" AND WILL BE TRANSITIONED TO 22" AT POST 7 IN THE TYPE "E" BES AND AT POST 8 IN THE TYPE "F" & "G" BES. THIS TRANSITION WILL BE A LINEAR TRANSITION IN THE VERTICAL PLANE.
- GUARDRAIL ELEMENTS SHALL BE LAPPED IN THE DIRECTION OF TRAFFIC. THE ONLY EXCEPTION NOTED IS THAT GUARDRAIL IS TO BE LAPPED FOR APPROACHING TRAFFIC ON A BRIDGE WITH 2-WAY TRAFFIC.

NOTES:

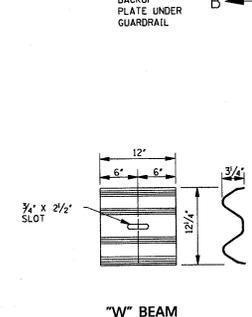
- TYPE "E" BES (POSTS 1 THRU 3); TYPES "F" & "G" BES (POSTS 1 THRU 4): 10" X 10" WOOD POST, 6'-0" LONG, WITH 6" X 8" WOOD BLOCKOUT, 14" LONG, ATTACHED USING GUARDRAIL BOLT "E" WITH PLAIN ROUND WASHER "F" UNDER NUT AND RECTANGULAR GUARDRAIL PLATE WASHER UNDER HEAD.
- TYPE "E" BES (POSTS 4 THRU 6); TYPES "F" & "G" BES (POSTS 5 THRU 7): 6" X 8" WOOD POST, 6'-0" LONG, WITH 6" X 8" WOOD BLOCKOUT, 14" LONG, ATTACHED USING GUARDRAIL BOLT "D" WITH PLAIN ROUND WASHER "F" UNDER NUT AND RECTANGULAR GUARDRAIL PLATE WASHER UNDER HEAD.



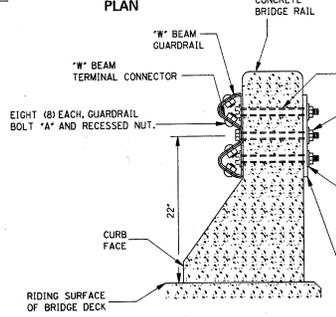
BY		MISSISSIPPI DEPARTMENT OF TRANSPORTATION ROADWAY DESIGN DIVISION STANDARD PLAN	
REVISION		GUARDRAIL: BRIDGE END SECTIONS TYPE "E", "F" & "G"	
DATE		ISSUE DATE:	OCTOBER 1, 1998
		WORKING NUMBER	GR-2A
		SHEET NUMBER	185



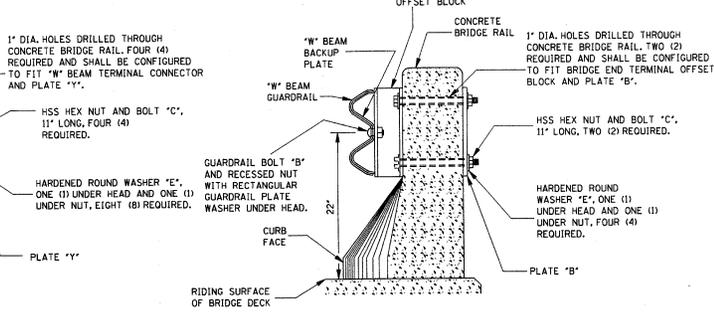
"W" BEAM TERMINAL CONNECTOR
 NOTE: THE "W" BEAM TERMINAL CONNECTOR IS USED WITH THE TYPE "D" MODIFIED BRIDGE END SECTION. THE CROSS-SECTIONAL DIMENSIONS OF THIS PART ARE IDENTICAL TO THE STANDARD "W" BEAM SECTION (AASHTO M 180 CLASS B, TYPE III).



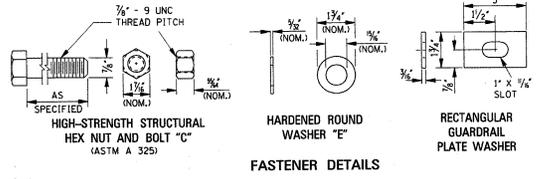
"W" BEAM BACKUP PLATE
 NOTE: THE "W" BEAM BACK-UP PLATE IS USED UNDER THE "W" BEAM RAIL SECTION WHERE INDICATED ON THIS SHEET. THE CROSS-SECTIONAL DIMENSIONS OF THIS PART ARE IDENTICAL TO THOSE OF THE STANDARD "W" BEAM RAIL SECTION.



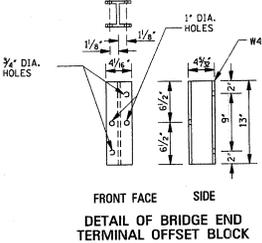
SECTION A-A



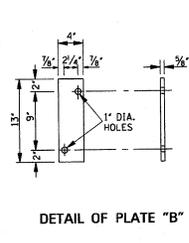
SECTION B-B



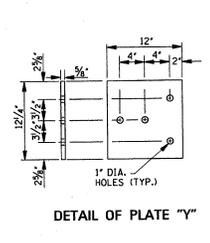
FASTENER DETAILS



DETAIL OF BRIDGE END TERMINAL OFFSET BLOCK



DETAIL OF PLATE "B"

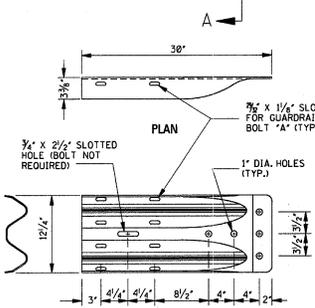
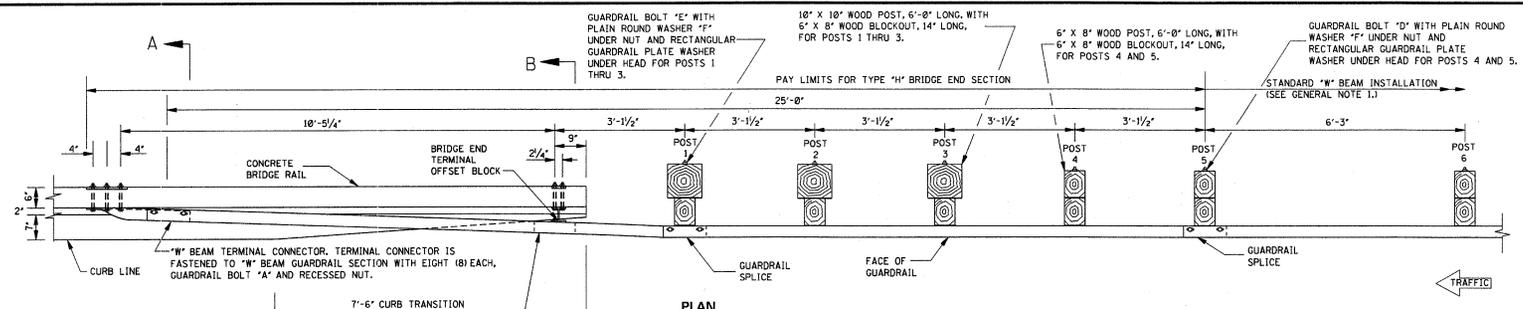


DETAIL OF PLATE "Y"

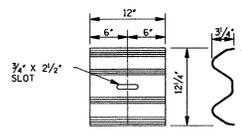
- GENERAL NOTES:**
1. ALL NOTES AND DETAILS PERTAINING TO NORMAL "W" BEAM GUARDRAIL INSTALLATION NOT SPECIFICALLY MODIFIED ON THIS SHEET WILL BE FOUND ON EITHER SHEET GR-1 (WOOD POSTS) OR GR-1B (STEEL POSTS).
 2. INSTALLATION DETAILS FOR BRIDGE END SECTION GUARDRAIL POSTS WILL BE FOUND ON EITHER SHEET GR-2C (WOOD POSTS) OR GR-2D (STEEL POSTS).
 3. GUARDRAIL ELEMENTS SHALL BE LAPPED IN THE DIRECTION OF TRAFFIC. THE ONLY EXCEPTION NOTED IS THAT GUARDRAIL IS TO BE LAPPED FOR APPROACHING TRAFFIC ON A BRIDGE WITH 2-WAY TRAFFIC.

MISSISSIPPI DEPARTMENT OF TRANSPORTATION ROADWAY DESIGN DIVISION STANDARD PLAN	
GUARDRAIL: BRIDGE END SECTION TYPE "D" MODIFIED	
WORKING NUMBER GR-2B	SHEET NUMBER 186
ISSUE DATE: OCTOBER 1, 1998	

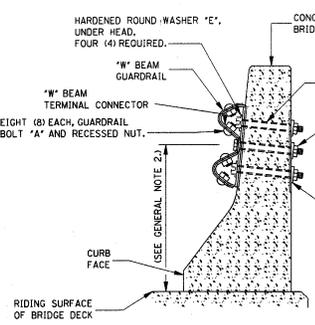
STATE	PROJECT NO.
MISS.	



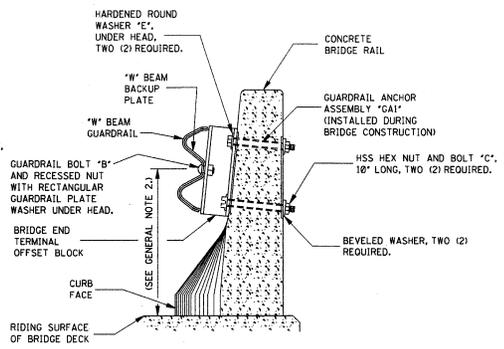
"W" BEAM TERMINAL CONNECTOR
 NOTE: THE "W" BEAM TERMINAL CONNECTOR IS USED WITH THE TYPE "H" BRIDGE END SECTION. THE CROSS-SECTIONAL DIMENSIONS OF THIS PART ARE IDENTICAL TO THE STANDARD "W" BEAM SECTION (AASHTO M 188 CLASS B, TYPE III).



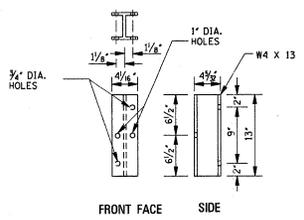
"W" BEAM BACKUP PLATE
 NOTE: THE "W" BEAM BACK-UP PLATE IS USED UNDER THE "W" BEAM RAIL SECTION WHERE INDICATED ON THIS SHEET. THE CROSS-SECTIONAL DIMENSIONS OF THIS PART ARE IDENTICAL TO THOSE OF THE STANDARD "W" BEAM RAIL SECTION.



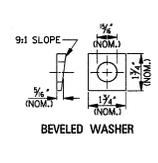
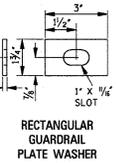
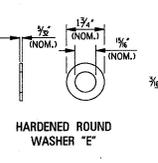
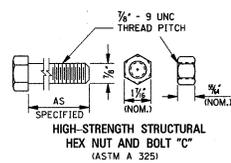
SECTION A-A



SECTION B-B



DETAIL OF BRIDGE END TERMINAL OFFSET BLOCK

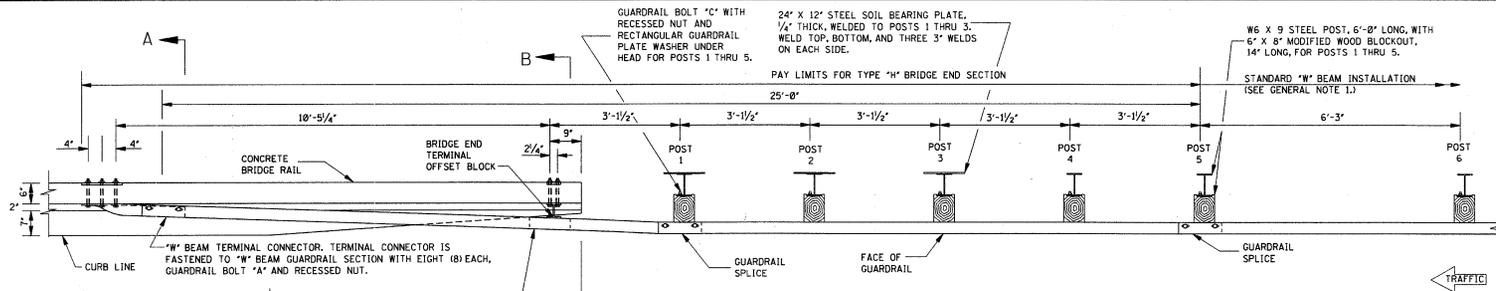


FASTENER DETAILS

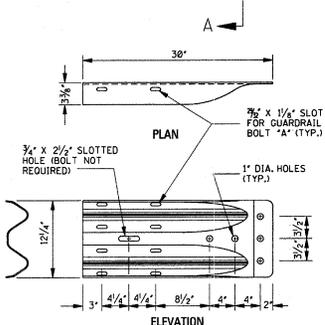
- GENERAL NOTES:
1. ALL NOTES AND DETAILS PERTAINING TO NORMAL "W" BEAM GUARDRAIL INSTALLATION NOT SPECIFICALLY MODIFIED ON THIS SHEET WILL BE FOUND ON SHEET GR-1 (WOOD POSTS).
 2. THE HEIGHT OF RAIL AT THE BRIDGE END IS 21" AND WILL BE TRANSITIONED TO 22" AT POST 6. THIS TRANSITION WILL BE A LINEAR TRANSITION IN THE VERTICAL PLANE.
 3. GUARDRAIL ELEMENTS SHALL BE LAPPED IN THE DIRECTION OF TRAFFIC. THE ONLY EXCEPTION NOTED IS THAT GUARDRAIL IS TO BE LAPPED FOR APPROACHING TRAFFIC ON A BRIDGE WITH 2-WAY TRAFFIC.

BY	REVISION	DATE	ISSUE DATE:	OCTOBER 1, 1998
MISSISSIPPI DEPARTMENT OF TRANSPORTATION ROADWAY DESIGN DIVISION STANDARD PLAN GUARDRAIL: BRIDGE END SECTION TYPE "H" (WOOD POSTS)				
				 WORKING NUMBER GR-2C SHEET NUMBER 187

STATE	PROJECT NO.
MISS.	

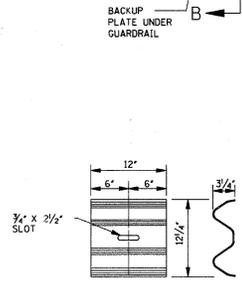


PLAN



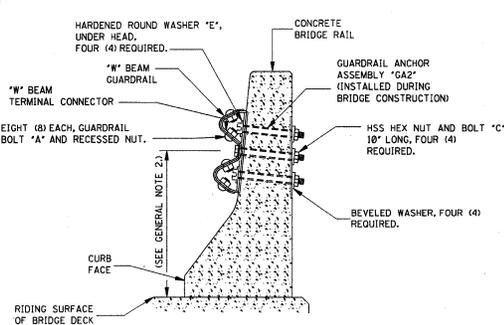
"W" BEAM TERMINAL CONNECTOR

NOTE: THE "W" BEAM TERMINAL CONNECTOR IS USED WITH THE TYPE "H" BRIDGE END SECTION. THE CROSS-SECTIONAL DIMENSIONS OF THIS PART ARE IDENTICAL TO THE STANDARD "W" BEAM SECTION (AASHTO M 180 CLASS B, TYPE III).

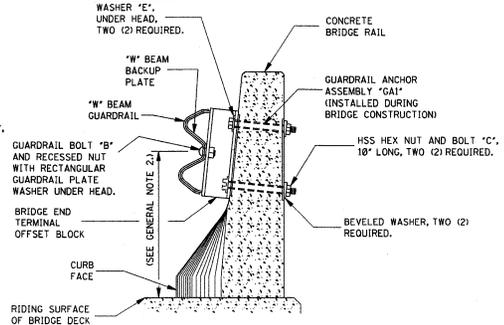


"W" BEAM BACKUP PLATE

NOTE: THE "W" BEAM BACK-UP PLATE IS USED UNDER THE "W" BEAM RAIL SECTION WHERE INDICATED ON THIS SHEET. THE CROSS-SECTIONAL DIMENSIONS OF THIS PART ARE IDENTICAL TO THOSE OF THE STANDARD "W" BEAM RAIL SECTION.



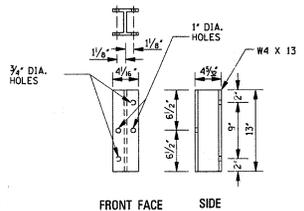
SECTION A-A



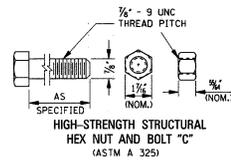
SECTION B-B

GENERAL NOTES:

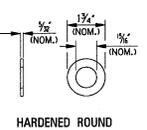
1. ALL NOTES AND DETAILS PERTAINING TO NORMAL "W" BEAM GUARDRAIL INSTALLATION NOT SPECIFICALLY MODIFIED ON THIS SHEET WILL BE FOUND ON SHEET GR-19 (STEEL POSTS).
2. THE HEIGHT OF RAIL AT THE BRIDGE END IS 21" AND WILL BE TRANSITIONED TO 22" AT POST 6. THIS TRANSITION WILL BE A LINEAR TRANSITION IN THE VERTICAL PLANE.
3. GUARDRAIL ELEMENTS SHALL BE LAPPED IN THE DIRECTION OF TRAFFIC. THE ONLY EXCEPTION NOTED IS THAT GUARDRAIL IS TO BE LAPPED FOR APPROACHING TRAFFIC ON A BRIDGE WITH 2-WAY TRAFFIC.



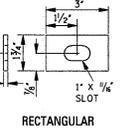
DETAIL OF BRIDGE END TERMINAL OFFSET BLOCK



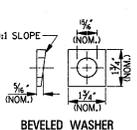
HIGH-STRENGTH STRUCTURAL HEX NUT AND BOLT "C" (ASTM A 325)



HARDENED ROUND WASHER "E"



RECTANGULAR GUARDRAIL PLATE WASHER



BEVELED WASHER

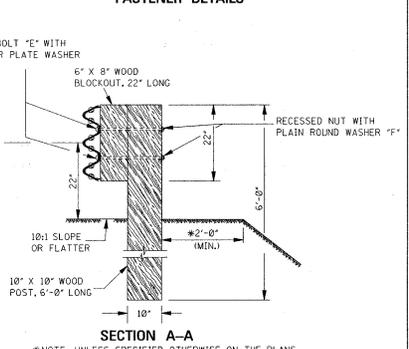
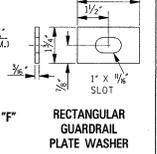
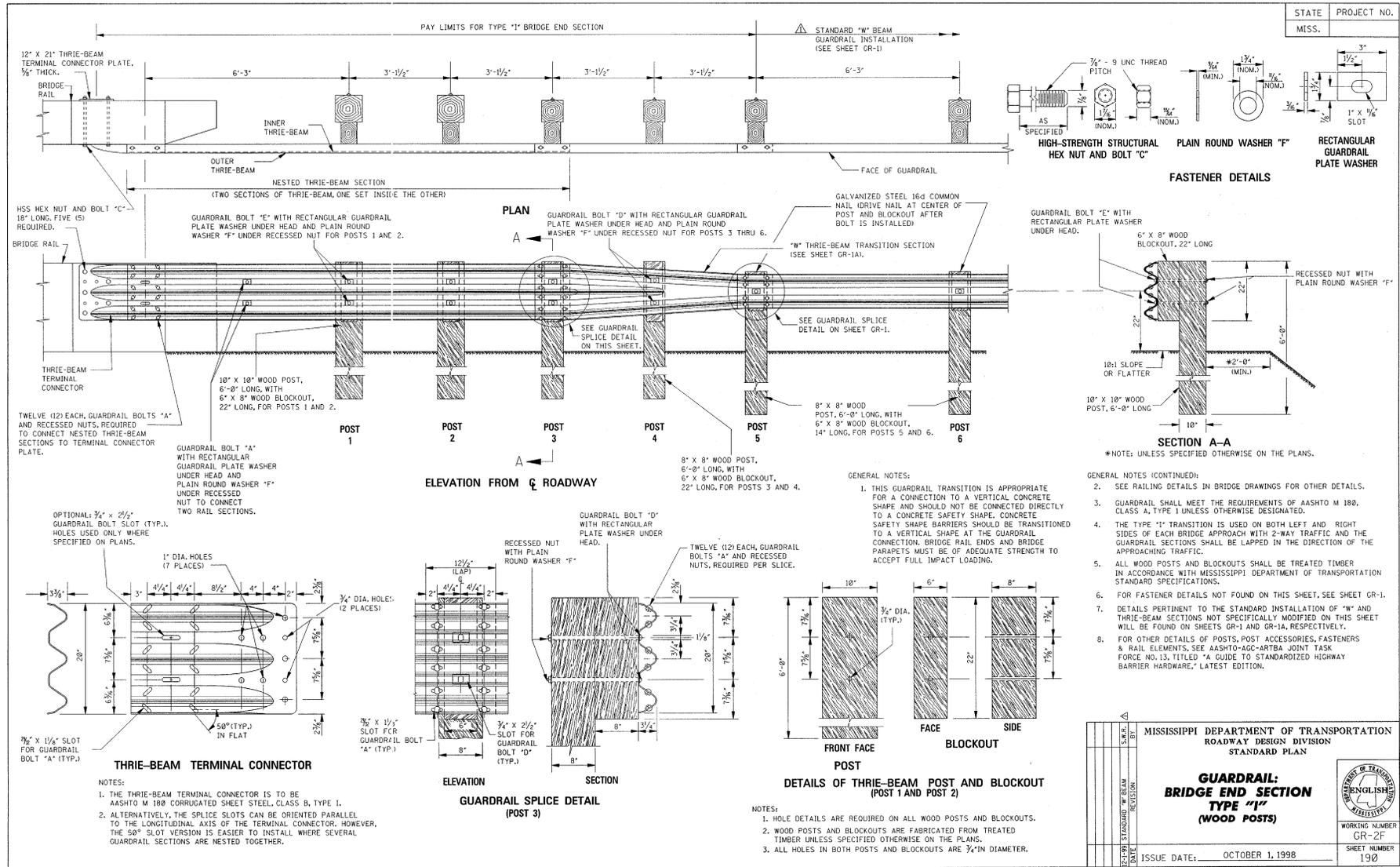
BY	MISSISSIPPI DEPARTMENT OF TRANSPORTATION
DESIGNED	ROADWAY DESIGN DIVISION
CHECKED	STANDARD PLAN
DATE	
REVISION	
DATE	
ISSUE DATE:	OCTOBER 1, 1998

GUARDRAIL: BRIDGE END SECTION TYPE "H" (STEEL POSTS)



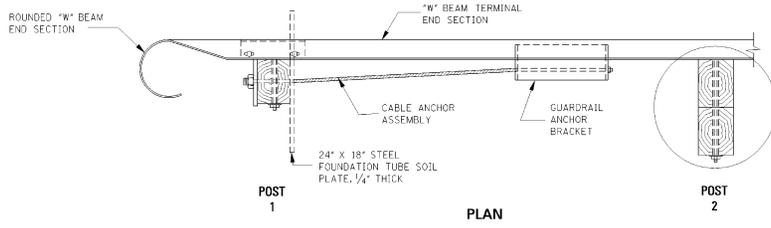
WORKING NUMBER GR-2D
SHEET NUMBER 188

STATE	PROJECT NO.
MISS.	



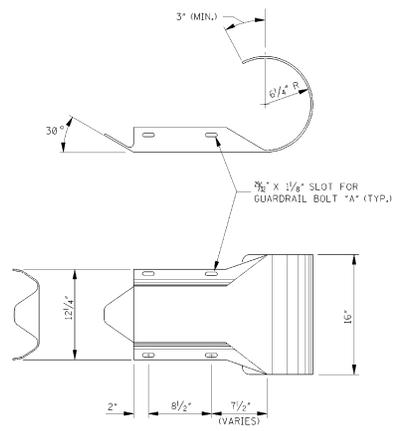
- GENERAL NOTES:
1. THIS GUARDRAIL TRANSITION IS APPROPRIATE FOR A CONNECTION TO A VERTICAL CONCRETE SHAPE AND SHOULD NOT BE CONNECTED DIRECTLY TO A CONCRETE SAFETY SHAPE. CONCRETE SAFETY SHAPE BARRIERS SHOULD BE TRANSITIONED TO A VERTICAL SHAPE AT THE GUARDRAIL CONNECTION. BRIDGE RAIL ENDS AND BRIDGE PARAPETS MUST BE OF ADEQUATE STRENGTH TO ACCEPT FULL IMPACT LOADING.
 2. SEE RAILING DETAILS IN BRIDGE DRAWINGS FOR OTHER DETAILS.
 3. GUARDRAIL SHALL MEET THE REQUIREMENTS OF AASHTO M 180, CLASS A, TYPE I UNLESS OTHERWISE DESIGNATED.
 4. THE TYPE '1' TRANSITION IS USED ON BOTH LEFT AND RIGHT SIDES OF EACH BRIDGE APPROACH WITH 2-WAY TRAFFIC AND THE GUARDRAIL SECTIONS SHALL BE LAPPED IN THE DIRECTION OF THE APPROACHING TRAFFIC.
 5. ALL WOOD POSTS AND BLOCKOUTS SHALL BE TREATED TIMBER IN ACCORDANCE WITH MISSISSIPPI DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS.
 6. FOR FASTENER DETAILS NOT FOUND ON THIS SHEET, SEE SHEET GR-1.
 7. DETAILS PERTINENT TO THE STANDARD INSTALLATION OF 'W' AND THRIE-BEAM SECTIONS NOT SPECIFICALLY MODIFIED ON THIS SHEET WILL BE FOUND ON SHEETS GR-1 AND GR-1A, RESPECTIVELY.
 8. FOR OTHER DETAILS OF POSTS, POST ACCESSORIES, FASTENERS & RAIL ELEMENTS, SEE AASHTO-ACC-ARTEBA JOINT TASK FORCE NO. 13, TITLED "A GUIDE TO STANDARDIZED HIGHWAY BARRIER HARDWARE," LATEST EDITION.

MISSISSIPPI DEPARTMENT OF TRANSPORTATION ROADWAY DESIGN DIVISION STANDARD PLAN		
<p align="center">GUARDRAIL: BRIDGE END SECTION TYPE "1" (WOOD POSTS)</p>		
ISSUE DATE:	OCTOBER 1, 1998	WORKING NUMBER GR-2F SHEET NUMBER 190



NOTE: THE "POST 2" ASSEMBLY DEPENDS ON WHETHER THE TRAILING END TERMINAL IS ATTACHED TO THE STANDARD WOOD OR STEEL POST "W" BEAM GUARDRAIL INSTALLATION AS FOLLOWS:

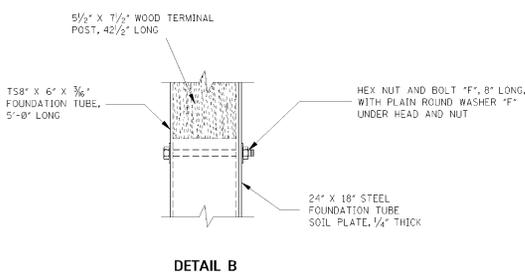
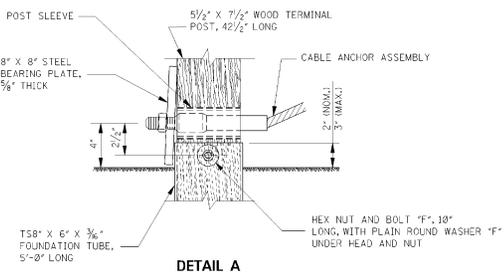
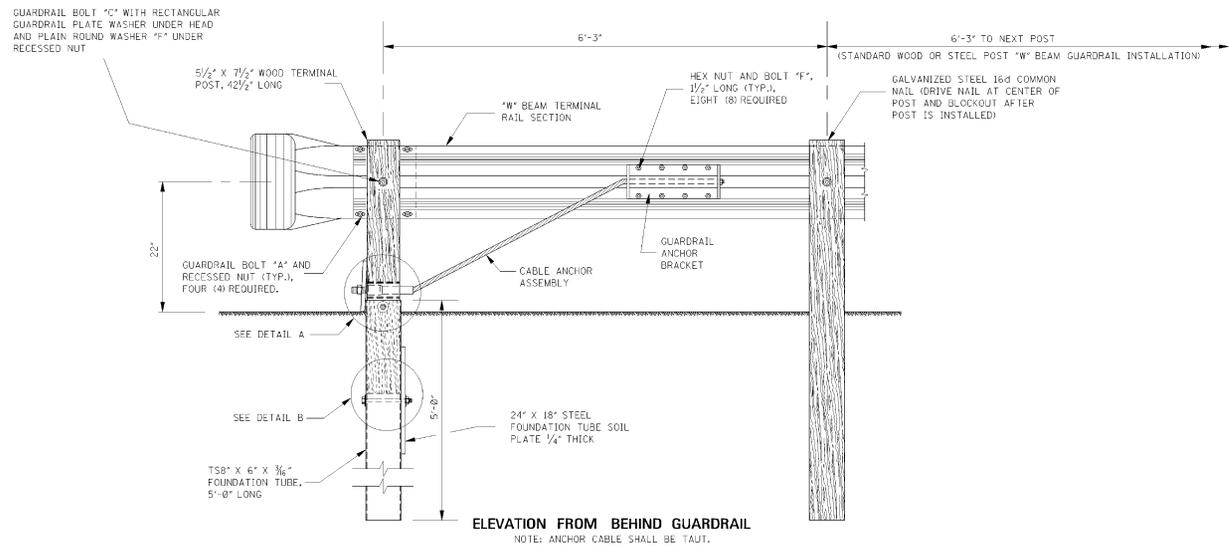
- WOOD POST INSTALLATION (SHOWN)**
 "W" BEAM TERMINAL RAIL SECTION, 6" X 8" WOOD BLOCKOUT, 14" LONG, AND 6" X 8" WOOD POST, 5'-4" LONG, ATTACHED WITH GUARDRAIL BOLT "D" AND RECESSED NUT. INSTALL RECTANGULAR GUARDRAIL PLATE WASHER UNDER HEAD AND PLAIN ROUND WASHER "F" UNDER RECESSED NUT.
- STEEL POST INSTALLATION**
 "W" BEAM TERMINAL RAIL SECTION, 6" X 8" MODIFIED WOOD BLOCKOUT, 14" LONG, AND W6 X 9 STEEL POST, 6'-0" LONG, ATTACHED WITH GUARDRAIL BOLT "C" AND RECESSED NUT. INSTALL RECTANGULAR GUARDRAIL PLATE WASHER UNDER GUARDRAIL BOLT HEAD.



ROUNDED "W" BEAM END SECTION
 NOTE: THE CROSS-SECTIONAL DIMENSIONS FOR THIS PART ARE TO FIT OVER THE STANDARD "W" BEAM SECTION.

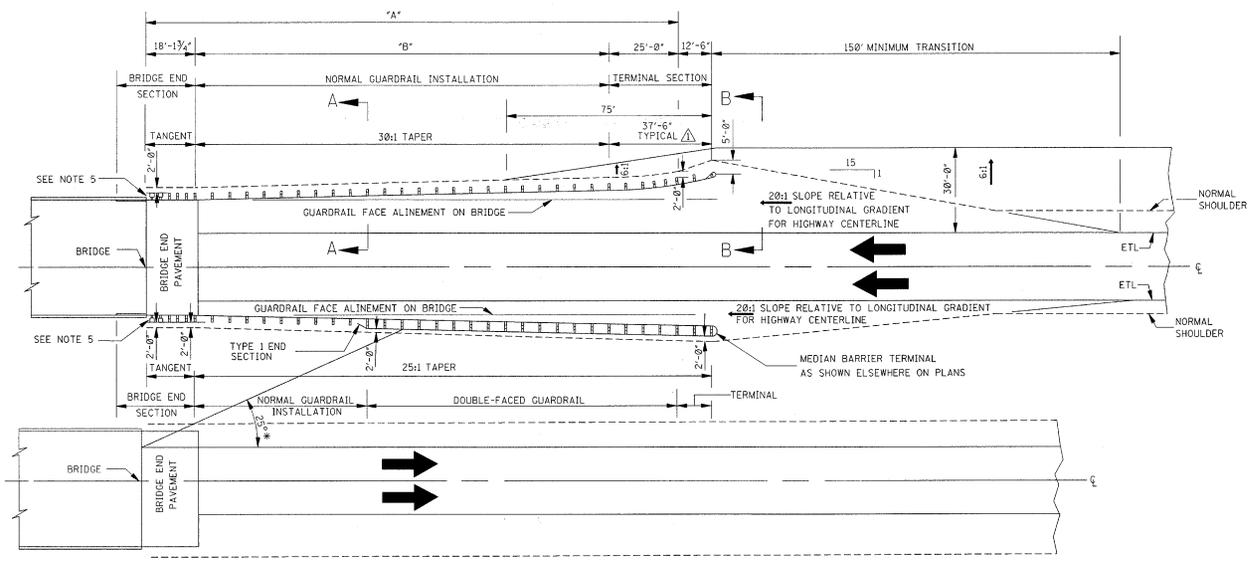
GENERAL NOTES:

- THIS ANCHORAGE MAY ONLY BE USED ON THE TRAILING END OF A BARRIER WHICH IS NOT EXPOSED TO VEHICULAR IMPACT.
- GUARDRAIL SHALL MEET THE REQUIREMENTS OF AASHTO M 180, CLASS A, TYPE I UNLESS OTHERWISE DESIGNATED.
- ALL WOOD POSTS AND BLOCKOUTS SHALL BE TREATED TIMBER IN ACCORDANCE WITH MISSISSIPPI DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS.
- FOR DETAILS OF HARDWARE AND COMPONENTS NOT FOUND ON THIS SHEET, SEE SHEET GR-HW. Δ
- DETAILS PERTINENT TO THE STANDARD INSTALLATION OF "W" BEAM SECTIONS WILL BE FOUND ON SHEET GR-1, FOR WOOD POSTS, AND GR-1B, FOR STEEL POSTS.
- FOR OTHER DETAILS OF POSTS, POST ACCESSORIES, FASTENERS AND RAIL ELEMENTS, SEE AASHTO-ACC-ARTBA JOINT TASK FOR NO. 13, TITLED "A GUIDE TO STANDARDIZED HIGHWAY BARRIER HARDWARE," LATEST EDITION.

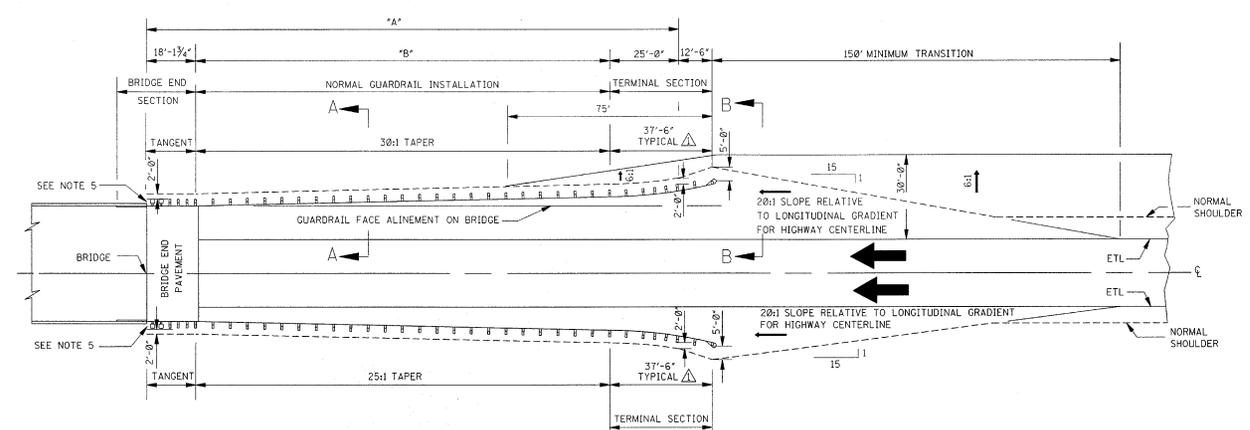


MISSISSIPPI DEPARTMENT OF TRANSPORTATION ROADWAY DESIGN DIVISION STANDARD PLAN		
GUARDRAIL: TYPE I CABLE ANCHORAGE (FOUNDATION TUBE)		
S.W.D. BY DATE STANDARD REVISION NOTE	ISSUE DATE: OCTOBER 1, 1998	WORKING NUMBER GR-3 SHEET NUMBER 192

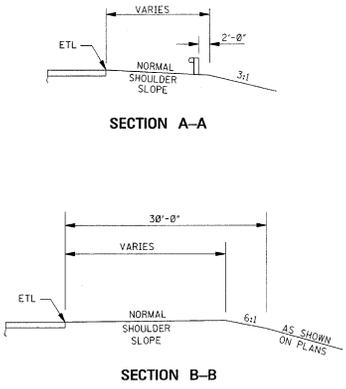
STATE	PROJECT NO.
MISS.	



DIVIDED HIGHWAY WITH BARRIER INSIDE CLEAR ZONE OF OPPOSING TRAFFIC
 * NOTE: THE 25' LINE IS USED TO DETERMINE THE LIMITS OF MEDIAN BARRIER AS SHOWN.



DIVIDED HIGHWAY WITH BARRIER OUTSIDE CLEAR ZONE OF OPPOSING TRAFFIC



GENERAL NOTES:

- VALUES FOR "A" AND "B" WILL BE SHOWN ELSEWHERE ON THE PLANS.
- FOR DETAILS PERTINENT TO INSTALLATION OF THE TERMINAL SECTION, SEE MANUFACTURER'S SPECIFICATIONS AND DRAWINGS OR ELSEWHERE ON PLANS.
- GUARDRAIL SECTIONS ARE TO BE LAPPED IN THE DIRECTION OF TRAFFIC FLOW NEAREST THE GUARDRAIL FACE.
- THE OVERALL LENGTH OF GUARDRAIL IS MEASURED FROM THE CONNECTING END ON THE BRIDGE.
- THE SHOULDER WIDTH AT THE BRIDGE END SHALL BE SUFFICIENTLY WIDE TO PROVIDE A MINIMUM OF 2'-0" BEHIND THE BACK OF POST BEFORE THE SLOPE BREAK (HINGEPOINT).
- TYPE, DETAILS AND LIMITS OF GUARDRAIL BRIDGE END SECTION WILL BE SHOWN ELSEWHERE ON THE PLANS.

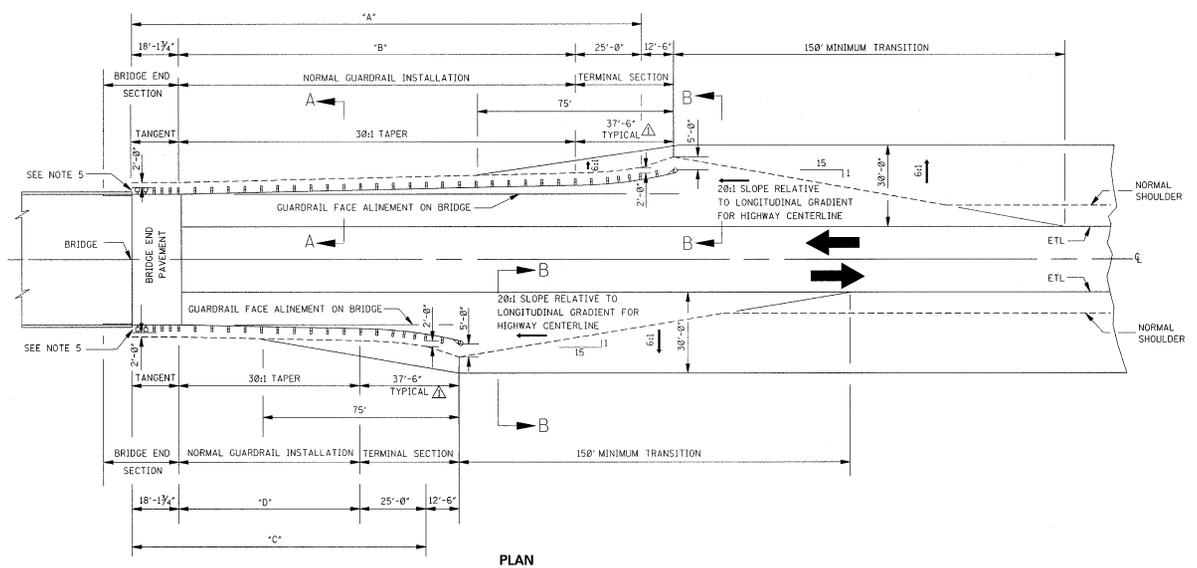
DATE	REVISED	BY	REVISION

MISSISSIPPI DEPARTMENT OF TRANSPORTATION
 ROADWAY DESIGN DIVISION
 STANDARD PLAN

**GUARDRAIL:
 TYPICAL INSTALLATION AT
 BRIDGE APPROACHES
 FOR DIVIDED HIGHWAYS**

ISSUE DATE: OCTOBER 1, 1998

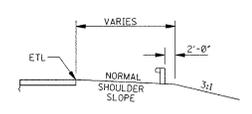
WORKING NUMBER: GR-4
 SHEET NUMBER: 194



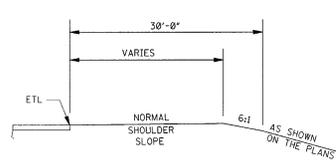
DETAIL OF GUARDRAIL SECTION LAPS

GENERAL NOTES:

- VALUES FOR "A", "B", "C" AND "D" WILL BE SHOWN ELSEWHERE ON THE PLANS.
- FOR DETAILS PERTINENT TO INSTALLATION OF THE TERMINAL SECTION, SEE MANUFACTURER'S SPECIFICATIONS AND DRAWINGS OR ELSEWHERE ON PLANS
- GUARDRAIL SECTIONS ARE TO BE LAPPED IN THE DIRECTION OF TRAFFIC APPROACHING THE BRIDGE.
- THE OVERALL LENGTH OF GUARDRAIL IS MEASURED FROM THE CONNECTING END ON THE BRIDGE.
- THE SHOULDER WIDTH AT THE BRIDGE END SHALL BE SUFFICIENTLY WIDE TO PROVIDE A MINIMUM OF 2'-0" BEHIND THE BACK OF POST BEFORE THE SLOPE BREAK (HINGEPOINT).
- TYPE, DETAILS AND LIMITS OF GUARDRAIL BRIDGE END SECTION WILL BE SHOWN ELSEWHERE ON THE PLANS.



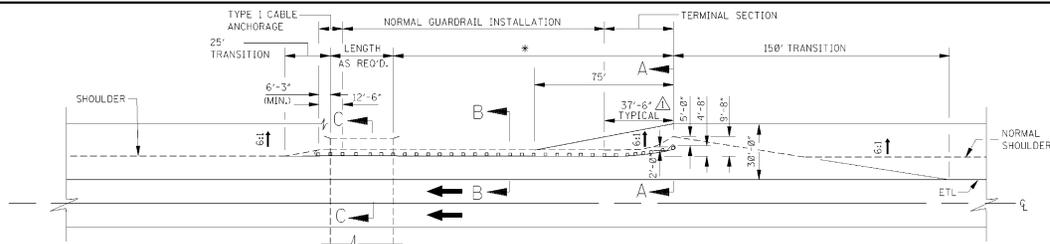
SECTION A-A



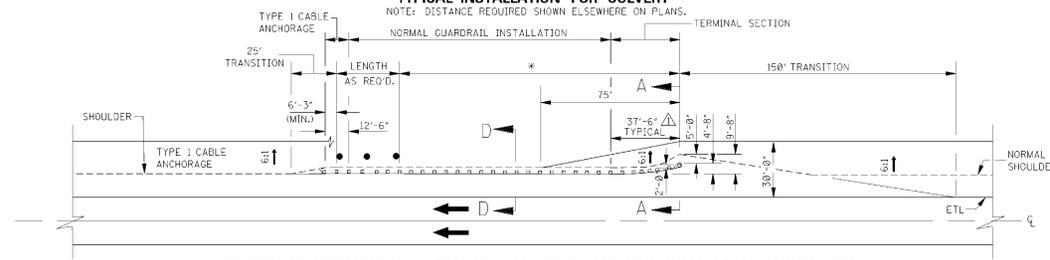
SECTION B-B

MISSISSIPPI DEPARTMENT OF TRANSPORTATION ROADWAY DESIGN DIVISION STANDARD PLAN		
GUARDRAIL: TYPICAL INSTALLATION AT BRIDGE APPROACHES FOR 2-LANE, 2-WAY HIGHWAY		
DATE	ISSUE DATE: OCTOBER 1, 1998	WORKING NUMBER GR-4A
REVISION		SHEET NUMBER 195

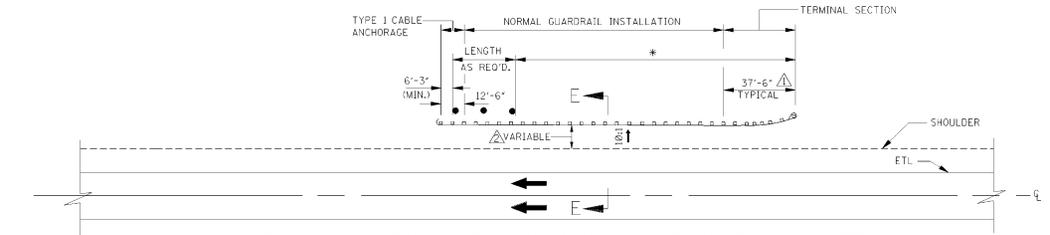
STATE	PROJECT NO.
MISS.	



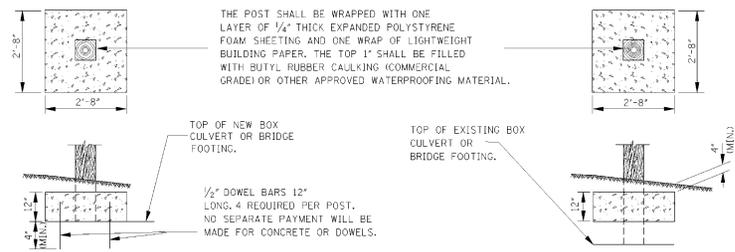
TYPICAL INSTALLATION FOR CULVERT
NOTE: DISTANCE REQUIRED SHOWN ELSEWHERE ON PLANS.



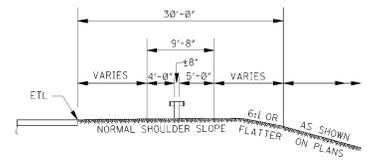
TYPICAL INSTALLATION FOR ROADSIDE OBSTACLE ON SIDE SLOPE STEEPER THAN 10:1
* NOTE: DISTANCE REQUIRED SHOWN ELSEWHERE ON PLANS.



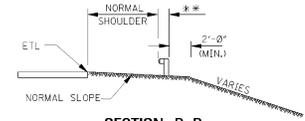
TYPICAL INSTALLATION FOR ROADSIDE OBSTACLE ON SIDE SLOPE 10:1 OR FLATTER
* NOTE: DISTANCE REQUIRED SHOWN ELSEWHERE ON PLANS.



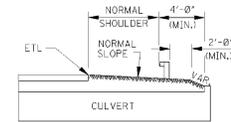
DETAIL OF POST INSTALLATION WITH COVER LESS THAN NORMAL POST LENGTH



SECTION A-A

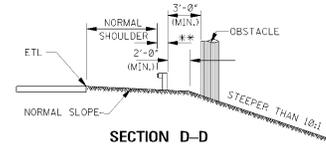


SECTION B-B

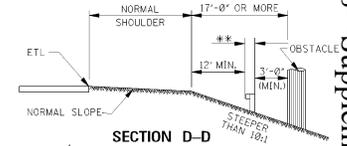


SECTION C-C

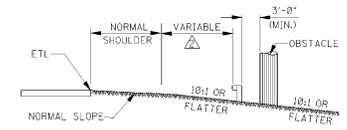
**NOTE: FOR STEEL POST AND MODIFIED WOOD BLOCKOUT, 17.15'; FOR WOOD POST AND BLOCKOUT, 19.25'.



SECTION D-D FOR OBSTACLES 5' TO 17' FROM NORMAL SHOULDER



SECTION D-D FOR OBSTACLES 17' OR MORE FROM NORMAL SHOULDER

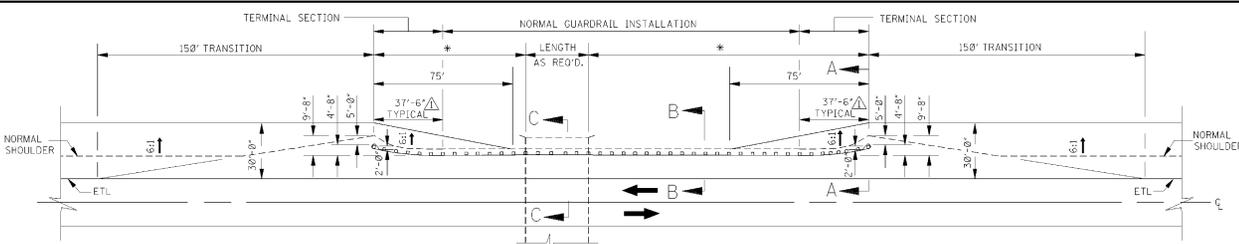


SECTION E-E

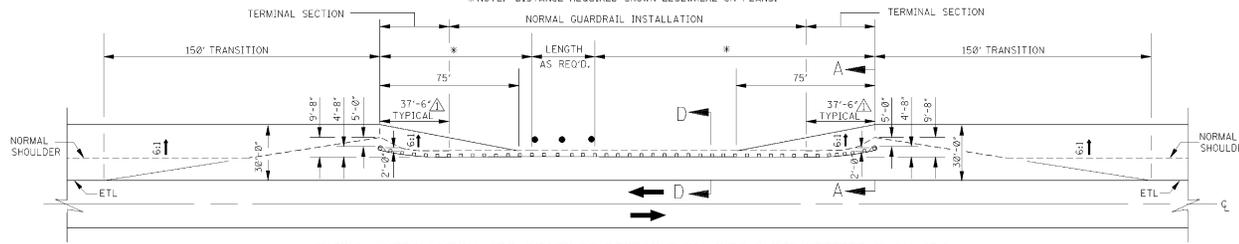
- GENERAL NOTES:
1. FOR DETAILS PERTINENT TO INSTALLATION OF THE TERMINAL SECTION, SEE MANUFACTURER'S SPECIFICATIONS AND DRAWINGS OR ELSEWHERE ON PLANS.
 2. GUARDRAIL SECTIONS TO BE LAPPED IN THE DIRECTION OF TRAFFIC FLOW NEAREST THE GUARDRAIL FACE.
 3. PAY LIMITS FOR NORMAL GUARDRAIL INSTALLATION WILL BE THE TOTAL LENGTH LESS THE LENGTHS OF END TERMINALS.

DESIGNED BY	MISSISSIPPI DEPARTMENT OF TRANSPORTATION
CHECKED BY	ROADWAY DESIGN DIVISION
DATE	STANDARD PLAN
REVISIONS	
	GUARDRAIL: TYPICAL INSTALLATION FOR ROADSIDE HAZARDS ON DIVIDED HIGHWAYS
	
	WORKING NUMBER CR-4C
	SHEET NUMBER 197
	ISSUE DATE: OCTOBER 1, 1998

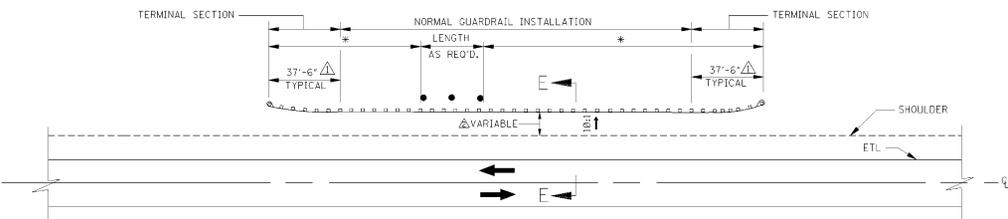
STATE	PROJECT NO.
MISS.	



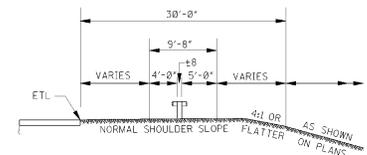
TYPICAL INSTALLATION FOR CULVERT
 *NOTE: DISTANCE REQUIRED SHOWN ELSEWHERE ON PLANS.



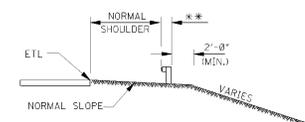
TYPICAL INSTALLATION FOR ROADSIDE OBSTACLE ON SIDE SLOPE STEEPER THAN 10:1
 *NOTE: DISTANCE REQUIRED SHOWN ELSEWHERE ON PLANS.



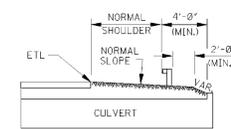
TYPICAL INSTALLATION FOR ROADSIDE OBSTACLE ON SIDE SLOPE 10:1 OR FLATTER
 *NOTE: DISTANCE REQUIRED SHOWN ELSEWHERE ON PLANS.



SECTION A-A

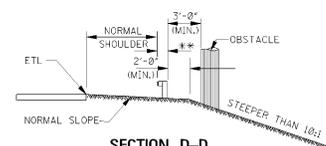


SECTION B-B

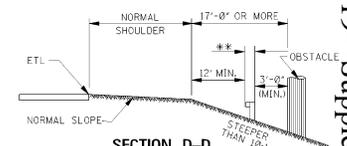


SECTION C-C

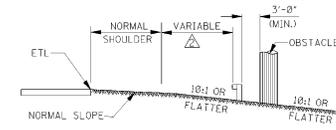
**NOTE: FOR STEEL POST AND MODIFIED WOOD BLOCKOUT, 17.15'; FOR WOOD POST AND WOOD BLOCKOUT, 19.25'.



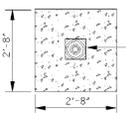
SECTION D-D
 FOR OBSTACLES 5' TO 17' FROM NORMAL SHOULDER



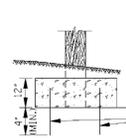
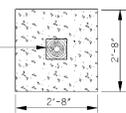
SECTION D-D
 FOR OBSTACLES 17' OR MORE FROM NORMAL SHOULDER



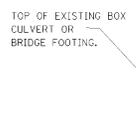
SECTION E-E



THE POST SHALL BE WRAPPED WITH ONE LAYER OF 1/2" THICK EXPANDED POLYSTYRENE FOAM SHEETING AND ONE WRAP OF LIGHTWEIGHT BUILDING PAPER, THE TOP 1" SHALL BE FILLED WITH BUTYL RUBBER CAULKING (COMMERCIAL GRADE) OR OTHER APPROVED WATERPROOFING MATERIAL.



TOP OF NEW BOX CULVERT OR BRIDGE FOOTING.
 1/2" DOWEL BARS 12" LONG, 4 REQUIRED PER POST. NO SEPARATE PAYMENT WILL BE MADE FOR CONCRETE OR DOWELS.

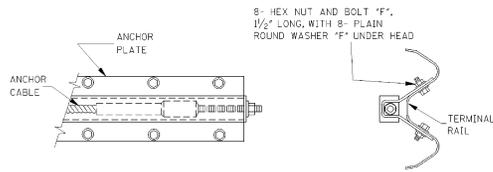


DETAIL OF POST INSTALLATION WITH COVER LESS THAN NORMAL POST LENGTH

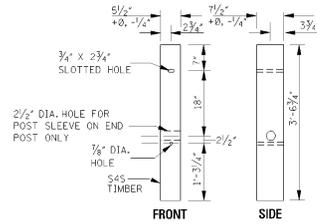
GENERAL NOTES:

- FOR DETAILS PERTINENT TO INSTALLATION OF THE TERMINAL SECTION, SEE MANUFACTURER'S SPECIFICATIONS AND DRAWINGS OR ELSEWHERE ON PLANS.
- GUARDRAIL SECTIONS TO BE LAPPED IN THE DIRECTION OF TRAFFIC FLOW NEAREST THE GUARDRAIL FACE.
- PAY LIMITS FOR NORMAL GUARDRAIL INSTALLATION WILL BE THE TOTAL LENGTH LESS THE LENGTHS OF END TERMINALS.

DESIGNED BY	DATE	REVISION	MISSISSIPPI DEPARTMENT OF TRANSPORTATION ROADWAY DESIGN DIVISION STANDARD PLAN
CHECKED BY			GUARDRAIL: TYPICAL INSTALLATION FOR ROADSIDE HAZARDS ON 2-LANE, 2-WAY HIGHWAYS
APPROVED BY			
ISSUE DATE:	OCTOBER 1, 1998		 WORKING NUMBER GR-4D SHEET NUMBER 198

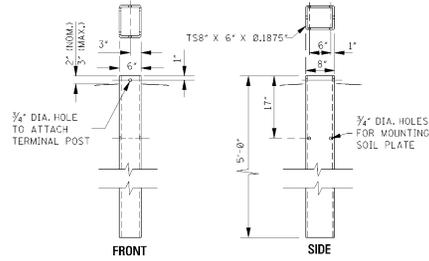


ANCHOR PLATE ASSEMBLY DETAILS



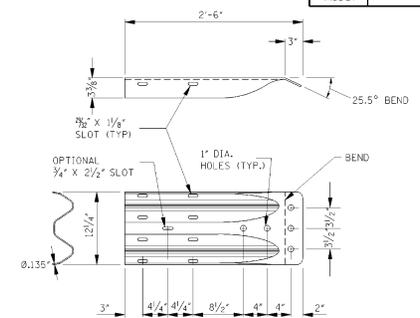
TERMINAL POST

NOTE: TERMINAL POST SHALL BE MADE OF S4S TIMBER WITH STRESS GRADE OF 1200 lbs/in².



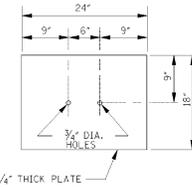
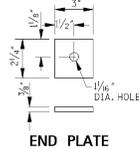
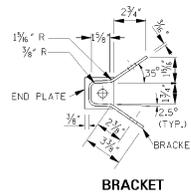
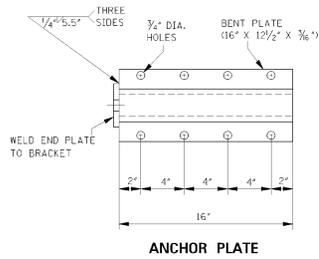
STEEL TUBE ANCHOR

NOTE: TERMINAL POST SHOULD BE ABLE TO SLIDE INTO THE TOP OF THIS SECTION SO THE ACTUAL INSIDE DIMENSIONS OF THIS GALVANIZED TUBE CANNOT BE LESS THAN 7 1/2" X 5 1/2".



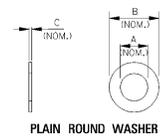
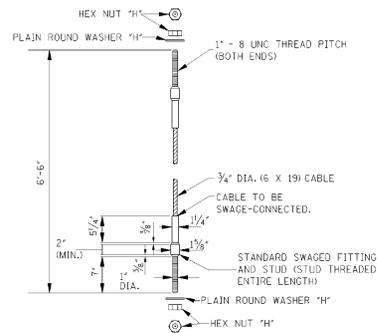
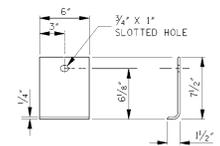
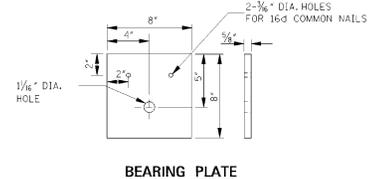
"W" BEAM TERMINAL CONNECTOR PLATE

- NOTES:
1. THE "W" BEAM TERMINAL CONNECTOR IS TO BE AASHTO M 180 CORRUGATED SHEET STEEL CLASS B, TYPE 1.
 2. SPLICE-BOLT SLOTS MAY ALSO BE ORIENTED AT 50° (ON THE PLATE) INSTEAD OF 0° AS SHOWN.

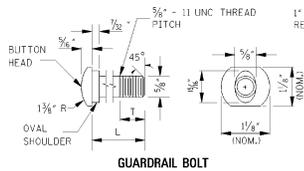


SOIL PLATE

NOTE: 2 REQUIRED

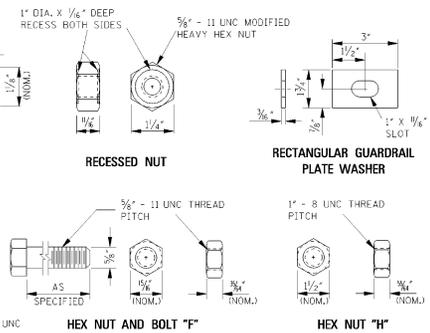


WASHER	A (INOM.)	B (INOM.)	C (INOM.)
"F"	1 1/2"	1 3/4"	3/4"
"H"	1 1/4"	2"	3/4"

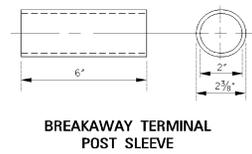


BOLT	L (INOM.)	T (MIN.)
"A"	1 1/4"	1"
"B"	2"	1 3/4"
"C"	10"	4"
"D"	18"	4"

- NOTES:
1. ALL GUARDRAIL BOLTS ARE 3/8" - 11 UNC THREAD PITCH.
 2. IF ANY BOLT EXTENDS MORE THAN 1/4" FROM THE NUT, THE BOLT SHOULD BE TRIMMED BACK.



FASTENER DETAILS



MISSISSIPPI DEPARTMENT OF TRANSPORTATION
ROADWAY DESIGN DIVISION
STANDARD PLAN

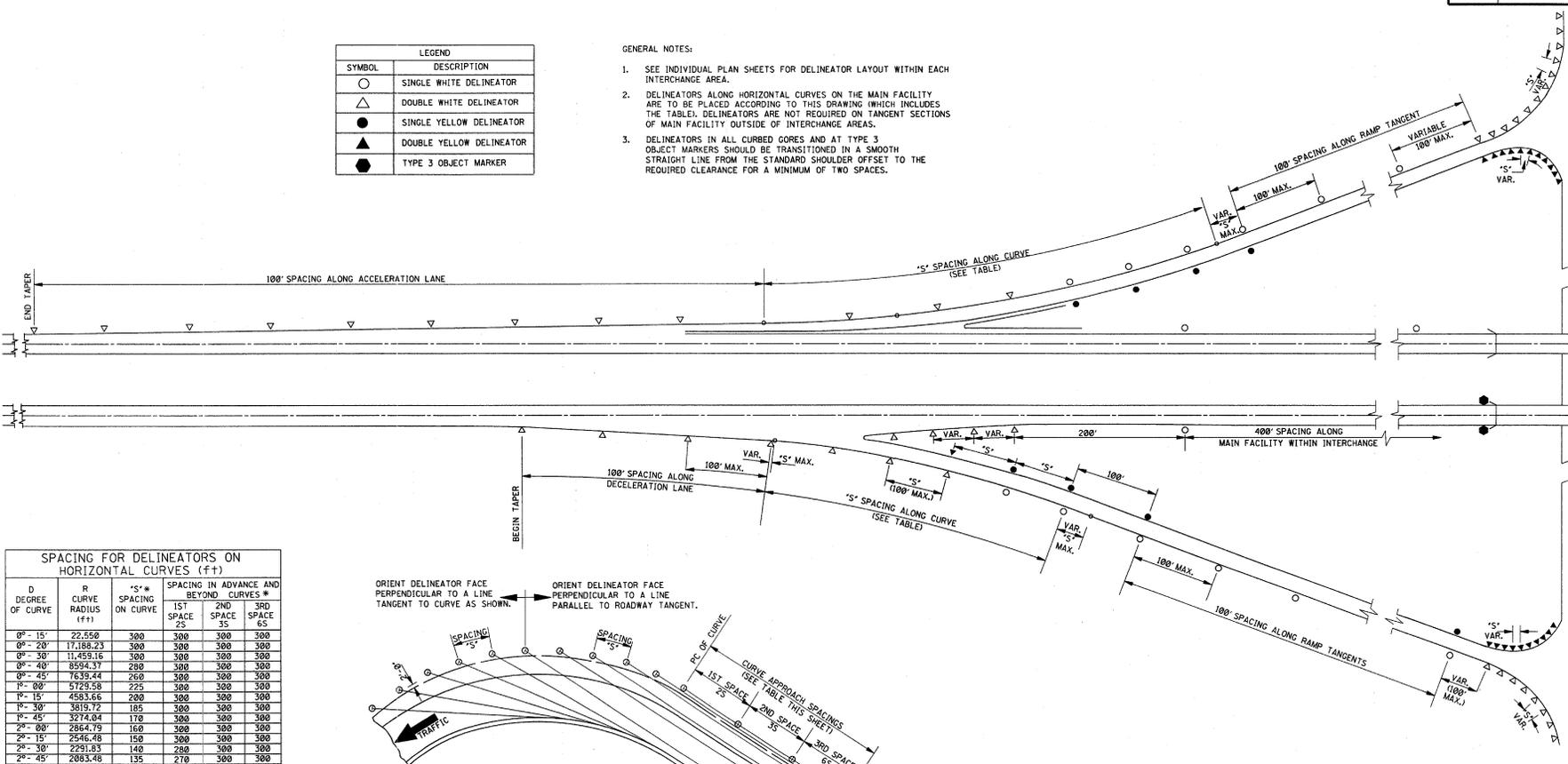
GUARDRAIL: MISCELLANEOUS HARDWARE

WORKING NUMBER: GR-H
SHEET NUMBER: 202

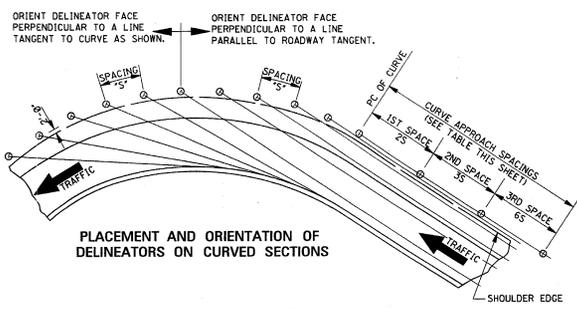
ISSUE DATE: OCTOBER 1, 1998

LEGEND	
SYMBOL	DESCRIPTION
○	SINGLE WHITE DELINEATOR
△	DOUBLE WHITE DELINEATOR
●	SINGLE YELLOW DELINEATOR
▲	DOUBLE YELLOW DELINEATOR
●	TYPE 3 OBJECT MARKER

- GENERAL NOTES:
- SEE INDIVIDUAL PLAN SHEETS FOR DELINEATOR LAYOUT WITHIN EACH INTERCHANGE AREA.
 - DELINEATORS ALONG HORIZONTAL CURVES ON THE MAIN FACILITY ARE TO BE PLACED ACCORDING TO THIS DRAWING (WHICH INCLUDES THE TABLE). DELINEATORS ARE NOT REQUIRED ON TANGENT SECTIONS OF MAIN FACILITY OUTSIDE OF INTERCHANGE AREAS.
 - DELINEATORS IN ALL CURBED GORES AND AT TYPE 3 OBJECT MARKERS SHOULD BE TRANSITIONED IN A SMOOTH STRAIGHT LINE FROM THE STANDARD SHOULDER OFFSET TO THE REQUIRED CLEARANCE FOR A MINIMUM OF TWO SPACES.



D DEGREE OF CURVE	R CURVE RADIUS (ft)	S* SPACING ON CURVE	SPACING IN ADVANCE AND BEYOND CURVES *		
			1ST SPACE 2S	2ND SPACE 3S	3RD SPACE 6S
0° - 15'	22,550	300	300	300	300
0° - 20'	17,188.23	300	300	300	300
0° - 30'	11,453.16	300	300	300	300
0° - 40'	8594.37	280	300	300	300
0° - 45'	7639.44	260	300	300	300
1° - 00'	5723.58	225	300	300	300
1° - 15'	4583.66	200	300	300	300
1° - 30'	3819.72	185	300	300	300
1° - 45'	3274.04	170	300	300	300
2° - 00'	2864.79	160	300	300	300
2° - 15'	2546.48	150	300	300	300
2° - 30'	2291.83	140	280	300	300
2° - 45'	2083.46	135	270	300	300
3° - 00'	1909.86	130	260	300	300
3° - 30'	1637.02	120	240	300	300
4° - 00'	1432.39	110	220	300	300
6° - 00'	954.93	90	180	270	300
8° - 00'	716.20	75	150	225	300
	500.00	65	130	195	300
	350.00	50	100	150	300
	300.00	45	90	135	270
	250.00	40	80	120	240
	200.00	35	70	105	210
	150.00	30	60	90	180



* NOTE: THE SPACING 'S' ON THE CURVE IS FOUND FROM THE FORMULA $S = \sqrt{R/50}$, WHERE R IS THE RADIUS OF THE CURVE IN FEET. THE SPACING OF THE FIRST DELINEATOR IN ADVANCE OF AND BEYOND THE CURVE IS 2S, THE SECOND DELINEATOR 3S, AND THE THIRD 6S, BUT NOT TO EXCEED 300' ALONG THE MAIN FACILITY AND 100' ALONG THE RAMPS. MINIMUM DELINEATOR SPACING IS 20'.

BY	MISSISSIPPI DEPARTMENT OF TRANSPORTATION ROADWAY DESIGN DIVISION STANDARD PLAN
DATE	
REVISION	
DATE	
BY	
DATE	

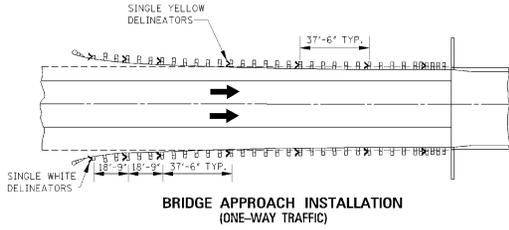
TYPICAL INSTALLATION OF DELINEATORS



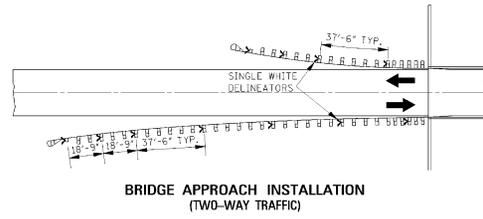
WORKING NUMBER
SN-BA
SHEET NUMBER
234

ISSUE DATE: OCTOBER 1, 1998

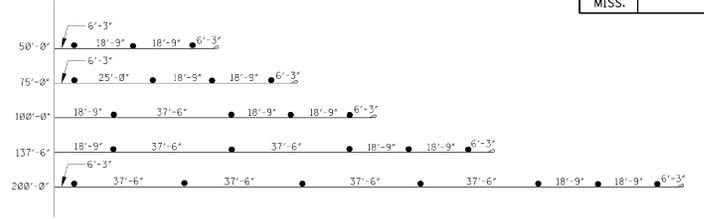
STATE	PROJECT NO.
MISS.	



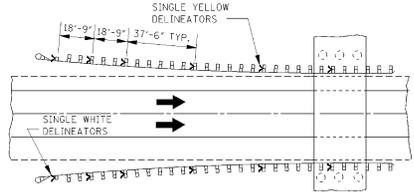
**BRIDGE APPROACH INSTALLATION
(ONE-WAY TRAFFIC)**



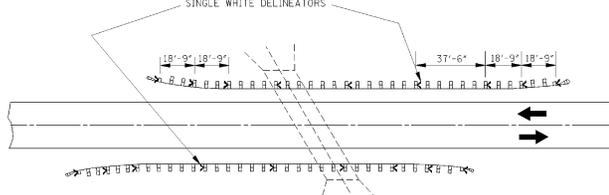
**BRIDGE APPROACH INSTALLATION
(TWO-WAY TRAFFIC)**



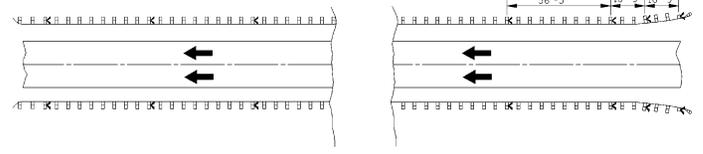
**GRAPHIC SHOWING SPACINGS OF GUARDRAIL DELINEATORS
AT SOME COMMONLY USED BRIDGE APPROACHES**



**ROADSIDE OBSTACLE INSTALLATION—LENGTH 250' OR LESS
(ONE-WAY TRAFFIC)**



**ROADSIDE OBSTACLE INSTALLATION—LENGTH 250' OR LESS
(TWO-WAY TRAFFIC)**

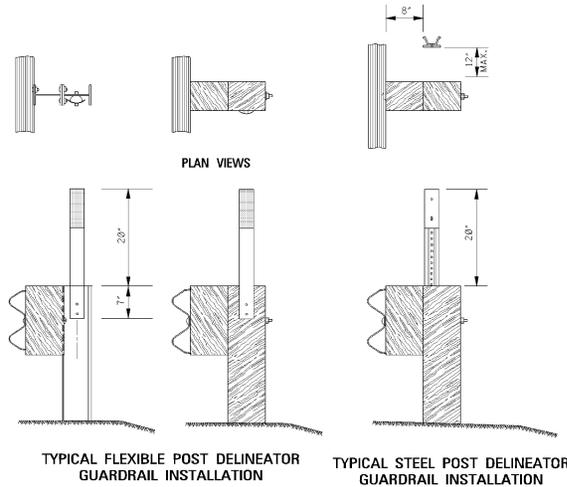


**EMBANKMENT OR ROADSIDE OBSTACLE INSTALLATION—LENGTH GREATER THAN 250'
(ONE-WAY TRAFFIC)**

NOTE: ONE-WAY TRAFFIC SHOWN. DELINEATOR SPACING FOR TWO-WAY TRAFFIC SIMILAR. DELINEATOR COLOR WILL BE THE SAME AS THE ADJACENT PAVEMENT EDGE MARKING. THE FIRST THREE (3) MARKERS WILL FACE TRAFFIC IN OFF LANE FOR TWO-WAY TRAFFIC AS SHOWN IN DRAWING FOR OBSTACLE INSTALLATION FOR TWO-WAY TRAFFIC.

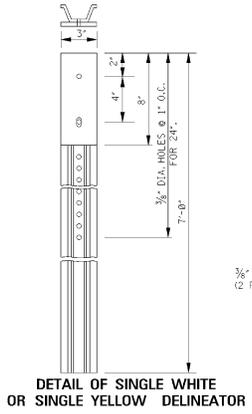
GENERAL NOTES:

1. THE UNIT PRICE OF DELINEATOR INCLUDES COST(S) OF DELINEATOR FACE(S), POST, HARDWARE AND INSTALLATION.
2. DELINEATOR FACE WILL BE ENCAPSULATED LENS REFLECTIVE SHEETING.
3. DELINEATORS FOR GUARDRAIL SHALL BE MOUNTED ON STEEL POSTS OR FLEXIBLE POSTS AS FOLLOWS:
 - 3A. DELINEATORS ON STEEL POSTS:
 1. DELINEATOR FACE SHALL BE PLACED ON 0.080" THICK SHEET ALUMINUM OR 14 GAUGE GALVANIZED SHEET STEEL.
 2. DELINEATOR POSTS SHALL BE GALVANIZED STEEL U-SECTION POSTS (2.0 LB/FT TO 2.5 LB/FT). THE POSTS ARE TO BE FABRICATED BEFORE THE METAL IS GALVANIZED, RADIUS IN BENDS OF POST CROSS-SECTION NOT TO EXCEED 3/8" FOR HOT ROLLED SECTION.
 3. WHEN COVER OVER A DRAINAGE STRUCTURE IS LESS THAN THE NORMAL DELINEATOR POST DEPTH, THE DELINEATOR POSTS WILL BE FIELD CUT, DRILLED AND FASTENED TO THE BACK OF THE GUARDRAIL POSTS WITH (2) 3/8" DIA. LAG SCREWS.
 - 3B. DELINEATORS ON FLEXIBLE POSTS:
 1. THE DELINEATOR POSTS WILL BE FROM THE DEPARTMENT'S "APPROVED SOURCE OF MATERIALS" AND WILL BE FASTENED TO GUARDRAIL POST IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATION.

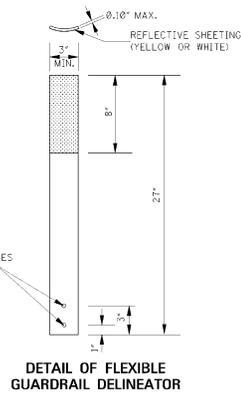


**TYPICAL FLEXIBLE POST DELINEATOR
GUARDRAIL INSTALLATION**

**TYPICAL STEEL POST DELINEATOR
GUARDRAIL INSTALLATION**



**DETAIL OF SINGLE WHITE
OR SINGLE YELLOW DELINEATOR**



**DETAIL OF FLEXIBLE
GUARDRAIL DELINEATOR**

STATE	PROJECT NO.
MISS.	

MISSISSIPPI DEPARTMENT OF TRANSPORTATION
ROADWAY DESIGN DIVISION
STANDARD PLAN

**TYPICAL GUARDRAIL
DELINEATOR**

WORKING NUMBER: SN-8C
SHEET NUMBER: 236

ISSUE DATE: OCTOBER 1, 1998

Widen & Overlay US Highway 51 from the Louisiana State Line to Price Road, known as Federal Aid Project No. STP-2175-00(011)MP / 104722301, in the County of Pike, State of Mississippi.

I (We) agree to complete the entire project within the specified contract time.

***** SPECIAL NOTICE TO BIDDERS *****

**BIDS WILL NOT BE CONSIDERED UNLESS BOTH UNIT PRICES AND ITEM TOTALS ARE ENTERED.
 BIDS WILL NOT BE CONSIDERED UNLESS THE BID CERTIFICATION LOCATED AT THE END OF THE BID SHEETS IS SIGNED**

*****BID SCHEDULE*****

Line No.	Item Code	Adj Code	Quantity	Units	Description	Unit Price		Item Amount	
						Dollar	Ct	Dollar	Ct
Roadway Items									
0010	202-B033		256	Square Yard	Removal of Concrete Pavement w/ Variable Depth Overlay				
0020	202-B076		1,100	Linear Feet	Removal of Traffic Stripe				
0030	202-B217		2,900	Each	Removal of Guard Rail, Including Rail, Posts & Cable Anchor s				
0040	304-A029	(GY)	3,292	Cubic Yard	Granular Material, LVM, Class 6, Group D				
0050	406-A001		16,964	Square Yard	Cold Milling of Bituminous Pavement, All Depths				
0060	413-E001		27,995	Linear Feet	Sawing and Sealing Transverse Joints in Asphalt Pavement				
0070	423-A001		18	Mile	Rumble Strips, Ground In				
0080	503-C007		306	Linear Feet	Saw Cut, Full Depth				

Line No.	Item Code	Adj Code	Quantity	Units	Description	Unit Price		Bid Amount	
0090	606-B001		2,125	Linear Feet	Guard Rail, Class A, Type 1				
0100	606-D004 Changed 04/12/2007		20	Each	Guard Rail, Bridge End Section, Type E				
0110	606-D005 Deleted 04/12/2007					XXXXXXXX	XXX	XXXXXXXX	XXX
0120	606-E001		20	Each	Guard Rail, Terminal End Section				
0130	613-D010		1	Each	Adjustment of Manhole Cover and Water Valve				
0140	618-A001		1	Lump Sum	Maintenance of Traffic	XXXXXXXX	XXX		
0150	618-B001		1	Square Feet	Additional Construction Signs		10.00		10.00
0160	619-A1002		19	Mile	Temporary Traffic Stripe, Continuous White				
0170	619-A2002		23	Mile	Temporary Traffic Stripe, Continuous Yellow				
0180	619-A4006		14	Mile	Temporary Traffic Stripe, Skip Yellow				
0190	619-A5001		5,000	Linear Feet	Temporary Traffic Stripe, Detail				
0200	619-A6001		4,500	Linear Feet	Temporary Traffic Stripe, Legend				

Line No.	Item Code	Adj Code	Quantity	Units	Description	Unit Price		Bid Amount	
0210	626-C002		2	Mile	6" Thermoplastic Edge Stripe, Continuous White				
0220	626-D002		7	Mile	6" Thermoplastic Traffic Stripe, Skip Yellow				
0230	626-E002		11	Mile	6" Thermoplastic Traffic Stripe, Continuous Yellow				
0240	626-G001		3,500	Linear Feet	Thermoplastic Detail Stripe, White				
0250	626-G002		1,500	Linear Feet	Thermoplastic Detail Stripe, Yellow				
0260	626-H002		4,500	Linear Feet	Thermoplastic Legend, White				
0270	627-L001		886	Each	Two-Way Yellow Reflective High Performance Raised Markers				
0280	628-J002		922	Linear Feet	6" High Performance Cold Plastic Traffic Stripe, Continuous White				
0290	628-L002		461	Linear Feet	6" High Performance Cold Plastic Traffic Stripe, Skip Yellow				
0300	630-F001		110	Each	Delineators, Guard Rail, White				
0310	907-403-A015 (BA1)		22,408	Ton	Hot Mix Asphalt, ST, 9.5-mm mixture				
0320	907-403-B009 (BA1)		1,250	Ton	Hot Mix Asphalt, ST, 9.5-mm mixture, Leveling				

Line No.	Item Code	Adj Code	Quantity	Units	Description	Unit Price		Bid Amount	
0330	907-626-C006		18	Mile	6" Thermoplastic Double Drop Edge Stripe, Continuous White, 90 mi min				

*** BID CERTIFICATION ***

TOTAL BID.....\$_____

*** DBE/WBE SECTION ***

Complete item nos. 1, 2, and/or 3 as appropriate. See Notice to Bidders addressing Disadvantaged Business Enterprises in Highway Construction.

1. I/We agree that no less than _____ percent shall be expended with small business concerns owned and controlled by socially and economically disadvantaged individuals (DBE and WBE).
2. Classification of Bidder: Small Business (DBE)_____ Small Business (WBE)_____
3. A joint venture with a Small Business (DBE/WBE): _____

*** SIGNATURE STATEMENT ***

BIDDER ACKNOWLEDGES THAT HE/SHE HAS CHECKED ALL ITEMS IN THIS PROPOSAL FOR ACCURACY AND CERTIFIED THAT THE FIGURES SHOWN THEREIN CONSTITUTE THEIR OFFICIAL BID.

BIDDER'S SIGNATURE

BIDDER'S COMPANY

BIDDER'S ID NUMBER

