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	**3/19/2015**	ADDENDUM NO.		DATED	
ADDENDUM NO		DATED		ADDENDUM NO.		DATED	

Number	Description
1	Revised Table of Contents; Add NTB No. 5464; Add Supplement to SP No. 907-803-7; Revised Bid Items; Revised or Added Plan Sheet Nos. 2-3, 13, 72, 111; Amendment EBS Download Required.

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:

President	Address
Secretary	Address
Treasurer	Address

The following is my (our) itemized proposal.

MISSISSIPPI DEPARTMENT OF TRANSPORTATION
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Pile Data Form
Progress Schedule

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

03/19/2015 10:45 AM

MISSISSIPPI DEPARTMENT OF TRANSPORTATION

SECTION 904 - NOTICE TO BIDDERS NO. 5464 **CODE: (SP)**

DATE: 3/16/2015

SUBJECT: Pile Hammer Requirements

PROJECT: BR-0019-02(054)/ 105189302 - Benton County

Steel H-Piles shall be driven with a pile hammer capable of generating a rated energy of no less than 70,000 ft.-lb. of energy and no more than 125,000 ft.-lb. of energy.

Steel Pipe Piles shall be driven with a pile hammer capable of generating a rated energy of no less than 120,000 ft.-lb. of energy.

Note: This Notice To Bidders shall replace the *Pile Hammer Requirements* chart on sheets 8042 and 8069.

MISSISSIPPI DEPARTMENT OF TRANSPORTATION

SUPPLEMENT TO SPECIAL PROVISION NO. 907-803-7

DATE: 3/13/2015

SUBJECT: Steel Pipe Piling

Replace the first paragraph of Subsection 907-803.02—Materials, with the following.

Steel pipe piles shall conform to the requirements of ASTM Designation: A252, Grade 3 and shall be either (1) seamless, (2) butt-welded: Electric Resistance Weld (ERW) or Double Submerged Arc Weld (DSAW), or (3) spiralweld pipe. Lap welded seams are not acceptable. The steel shall be a Prequalified Base Metal from the American Welding Society (AWS) Dl. 1 Structural Welded Code-Steel. Prior to fabrication, the Contractor shall furnish the State Materials Engineer three certified copies of steel producer's certificates in accordance with ASTM A252.

Replacing Bridge Nos. 166.2, 166.4, 167.8, & 168.3 on SR 7, known as Federal Aid Project No. BR-0019-02(054) / 105189302 in Benton County.

Line No.	Item Code	Adj Code	Quantity	Units	Description [Fixed Unit Price]
			Roadway Items		
0010	201-A001		1	Lump Sum	Clearing and Grubbing
0020	202-A001		1	Lump Sum	Removal of Obstructions
0030	202-B005		31,661	Square Yard	Removal of Asphalt Pavement, All Depths
0040	202-B019		11	Each	Removal of Concrete Headwall
0050	202-B038		119	Linear Feet	Removal of Curb, All Types
0060	202-B064		414	Linear Feet	Removal of Pipe, 8" And Above
0070	202-B076		9,200	Linear Feet	Removal of Traffic Stripe
0080	202-B080		37	Linear Feet	Removal of Box Culvert
0090	202-B102		2,662	Linear Feet	Removal of Guard Rail
0100	203-A003	(E)	57,035	Cubic Yard	Unclassified Excavation, FM, AH
0110	203-EX017	(E)	195,422	Cubic Yard	Borrow Excavation, AH, FME, Class B9
0120	203-G003	(E)	33,102	Cubic Yard	Excess Excavation, FM, AH
0130	206-A001	(S)	722	Cubic Yard	Structure Excavation
0140	209-A004		34,632	Square Yard	Geotextile Stabilization, Type V, Non-Woven
0150	213-C001		35	Ton	Superphosphate
0160	217-A001		100	Square Yard	Ditch Liner
0170	219-A001		5	Thousand Gallon	Watering [$20.00]
0180	220-A001		35	Acre	Insect Pest Control [$30.00]
0190	221-A001	(S)	29	Cubic Yard	Portland Cement Concrete Paved Ditch
0200	223-A001		70	Acre	Mowing [$50.00]
0210	234-A001		2,900	Linear Feet	Temporary Silt Fence
0220	235-A001		230	Bale	Temporary Erosion Checks
0230	236-A004		19	Each	Silt Basin, Type D
0240	239-A001		875	Linear Feet	Temporary Slope Drains
0250	406-A001		1,867	Square Yard	Cold Milling of Bituminous Pavement, All Depths
0260	423-A001		5	Mile	Rumble Strips, Ground In
0270	501-E001		443	Linear Feet	Expansion Joints, Without Dowels
0280	502-A001	(C)	1,021	Square Yard	Reinforced Cement Concrete Bridge End Pavement
0290	602-A001	(S)	178	Pounds	Reinforcing Steel
0300	603-CA003	(S)	988	Linear Feet	24" Reinforced Concrete Pipe, Class III
0310	603-CA004	(S)	120	Linear Feet	30" Reinforced Concrete Pipe, Class III
0320	603-CA009	(S)	100	Linear Feet	60" Reinforced Concrete Pipe, Class III
0330	603-CA015	(S)	152	Linear Feet	24" Reinforced Concrete Pipe, Class IV

Line No.	Item Code	Adj Code	Quantity	Units	Description [Fixed Unit Price]
0340	603-CB002	(S)	19	Each	24" Reinforced Concrete End Section
0350	603-CB003	(S)	2	Each	30" Reinforced Concrete End Section
0360	603-CB008	(S)	2	Each	60" Reinforced Concrete End Section
0370	603-CE004	(S)	40	Linear Feet	44" x 27" Concrete Arch Pipe, Class A III
0380	603-CF004	(S)	2	Each	44" x 27" Concrete Arch Pipe End Section
0420	606-B001		1,700	Linear Feet	Guard Rail, Class A, Type 1
0430	606-D012		16	Each	Guard Rail, Bridge End Section, Type I
0440	606-E002		16	Each	Guard Rail, Terminal End Section, Flared
0450	609-D002	(S)	220	Linear Feet	Combination Concrete Curb and Gutter Type 2
0460	615-A018	(S)	160	Linear Feet	Concrete Bridge End Barrier, 33.5"
0470	619-A1002		6	Mile	Temporary Traffic Stripe, Continuous White
0480	619-A2001		3,248	Linear Feet	Temporary Traffic Stripe, Continuous Yellow
0490	619-A4006		3	Mile	Temporary Traffic Stripe, Skip Yellow
0500	619-A5001		3,047	Linear Feet	Temporary Traffic Stripe, Detail
0510	619-A6001		527	Linear Feet	Temporary Traffic Stripe, Legend
0520	619-C7001		266	Each	Two-Way Yellow Reflective High Performance Raised Marker
0530	619-D1001		149	Square Feet	Standard Roadside Construction Signs, Less than 10 Square Feet
0540	619-D2001		360	Square Feet	Standard Roadside Construction Signs, 10 Square Feet or More
0550	619-G4001		192	Linear Feet	Barricades, Type III, Single Faced
0560	619-G4005		24	Linear Feet	Barricades, Type III, Double Faced
0570	619-G5001		152	Each	Free Standing Plastic Drums
0580	619-G7001		2	Each	Warning Lights, Type "B"
0590	620-A001		1	Lump Sum	Mobilization
0600	621-A001		1	Each	Field Laboratory
0610	627-L001		257	Each	Two-Way Yellow Reflective High Performance Raised Markers
0620	630-A001		20	Square Feet	Standard Roadside Signs, Sheet Aluminum, 0.080" Thickness
0630	630-A002		103	Square Feet	Standard Roadside Signs, Sheet Aluminum, 0.125" Thickness
0640	630-C003		182	Linear Feet	Steel U-Section Posts, 3.0 lb/ft
0650	630-E004		24	Pounds	Structural Steel Angles & Bars, 7/16" x 2 1/2" Flat Bar
0660	630-F001		88	Each	Delineators, Guard Rail, White
0670	630-G002		16	Each	Type 3 Object Markers, OM-3R or OM-3L, Post Mounted
0671	630-K003		31	Linear Feet	Welded & Seamless Steel Pipe Posts, 4"
0680	815-A006	(S)	1,943	Ton	Loose Riprap, Size 100

Line No.	Item Code	Adj Code	Quantity	Units	Description [Fixed Unit Price]
0690	815-A009	(S)	3,920	Ton	Loose Riprap, Size 300
0700	815-E001	(S)	2,110	Square Yard	Geotextile under Riprap
0710	907-216-A001		248	Square Yard	Solid Sodding
0720	907-225-A001		70	Acre	Grassing
0730	907-225-B001		208	Ton	Agricultural Limestone
0740	907-225-C001		139	Ton	Mulch, Vegetative Mulch
0750	907-226-A001		70	Acre	Temporary Grassing
0760	907-234-C002		13,735	Linear Feet	Super Silt Fence
0770	907-234-F001		600	Linear Feet	Turbidity Barrier
0780	907-237-A003		570	Linear Feet	Wattles, 20"
0790	907-245-A001		570	Linear Feet	Triangular Silt Dike
0800	907-246-A001		570	Linear Feet	Sandbags
0810	907-249-A001		336	Ton	Riprap for Erosion Control
0820	907-304-A011	(GY)	107,815	Cubic Yard	Granular Material, LVM, Class 9, Group A
0830	907-304-B009	(GT)	7,715	Ton	Granular Material, Class 3, Group D
0840	907-307-C003	(M)	20,885	Square Yard	6" Soil-Lime-Water Mixing, Class C
0850	907-307-D001		192	Ton	Lime
0860	907-307-S001	(A3)	3,538	Gallon	Bituminous Curing Seal
0870	907-403-A022	(BA1)	3,629	Ton	9.5-mm, MT, Asphalt Pavement
0880	907-403-A023	(BA1)	4,025	Ton	12.5-mm, MT, Asphalt Pavement
0890	907-403-A024	(BA1)	4,037	Ton	19-mm, MT, Asphalt Pavement
0900	907-407-A001	(A2)	3,622	Gallon	Asphalt for Tack Coat
0910	907-413-E001		375	Linear Feet	Sawing and Sealing Transverse Joints in Asphalt Pavement
0920	907-601-B003	(S)	8	Cubic Yard	Class "B" Structural Concrete, Minor Structures
0930	907-603-ALT01	(S)	472	Linear Feet	18" Type A Alternate Pipe
0940	907-603-ALT02	(S)	328	Linear Feet	24" Type A Alternate Pipe
0970	907-617-A001		66	Each	Right-of-Way Marker
0980	907-618-A001		1	Lump Sum	Maintenance of Traffic
0990	907-626-C004		5	Mile	6" Thermoplastic Edge Stripe, Continuous White
1000	907-626-D003		3	Mile	6" Thermoplastic Traffic Stripe, Skip Yellow
1010	907-626-E004		1	Mile	6" Thermoplastic Traffic Stripe, Continuous Yellow
1020	907-626-G004		741	Linear Feet	Thermoplastic Detail Stripe, White
1030	907-626-H004		186	Linear Feet	Thermoplastic Legend, White
1040	907-631-B001		11	Cubic Yard	Flowable Fill, Non-Excavatable

Line No.	Item Code	Adj Code	Quantity	Units	Description [Fixed Unit Price]
1050	907-699-A002		1	Lump Sum	Roadway Construction Stakes
1060	907-815-F001	(S)	400	Ton	Sediment Control Stone
1070	907-906001		720	Hours	Trainees [$5.00]
			ALTERNATE GROUP AA NUMBER 1		
1080	907-304-F002	(GT)	13,812	Ton	Size 610 Crushed Stone Base
			ALTERNATE GROUP AA NUMBER 2		
1090	907-304-F003	(GT)	13,812	Ton	3/4" and Down Crushed Stone Base
			ALTERNATE GROUP AA NUMBER 3		
1100	907-304-F004	(GT)	13,812	Ton	Size 825B Crushed Stone Base
			ALTERNATE GROUP BB NUMBER 1		
1110	907-308-A001		128	Ton	Portland Cement
1120	907-308-B001	(M)	20,885	Square Yard	Soil-Cement-Water Mixing, Optional Mixers, Base
1130	907-308-S001	(A3)	3,538	Gallon	Bituminous Curing Seal
			ALTERNATE GROUP BB NUMBER 2		
1140	907-311-A003	(M)	20,885	Square Yard	Processing Lime and Fly Ash Treated Course, 6" Thick
1150	907-311-B001		96	Ton	Lime
1160	907-311-C001		431	Ton	Fly Ash, Class C
1170	907-311-S001	(A3)	3,538	Gallon	Bituminous Curing Seal
			ALTERNATE GROUP CC NUMBER 1		
1180	907-626-J003		5,258	Linear Feet	6" Inverted Profile Thermoplastic Traffic Stripe, Continuous White
1190	907-626-K003		1,240	Linear Feet	6" Inverted Profile Thermoplastic Traffic Stripe, Skip Yellow
1200	907-626-L001		2,006	Linear Feet	6" Inverted Profile Thermoplastic Traffic Stripe, Continuous Yellow
			ALTERNATE GROUP CC NUMBER 2		
1210	628-J002		5,258	Linear Feet	6" High Performance Cold Plastic Traffic Stripe, Continuous White
1220	628-L002		1,240	Linear Feet	6" High Performance Cold Plastic Traffic Stripe, Skip Yellow
1230	628-M002		2,006	Linear Feet	6" High Performance Cold Plastic Traffic Stripe, Continuous Yellow
			Bridge Items		
1240	501-K001		10,865	Square Yard	Transverse Grooving
1250	803-B002	(S)	4	Each	Conventional Static Pile Load Test [$5,000.00]
1260	803-D006	(S)	14,115	Linear Feet	HP 14 x 117 Steel Piling
1270	803-D007	(S)	4,080	Linear Feet	HP 14 x 89 Steel Piling
1280	803-D009	(S)	1,700	Linear Feet	HP 16 x 183 Steel Piling
1290	803-D010	(S)	2,180	Linear Feet	HP 18 x 181 Steel Piling
1300	803-I001	(S)	25	Each	PDA Test Pile
1310	803-J001	(S)	4	Each	Pile Restrike

Line No.	Item Code	Adj Code	Quantity	Units	Description [Fixed Unit Price]
1320	805-A001	(S)	996,072	Pounds	Reinforcement
1330	813-A002	(S)	4,890	Linear Feet	Concrete Railing, 32"
1340	815-A009	(S)	3,898	Ton	Loose Riprap, Size 300
1350	815-E001	(S)	5,594	Square Yard	Geotextile under Riprap
1360	907-803-P004	(S)	1,760	Linear Feet	36" Steel Pipe Piling, Wall Thickness 0.750"
1370	907-804-A001	(S)	4,982	Cubic Yard	Bridge Concrete, Class AA
1380	907-804-C012	(S)	674	Linear Feet	135' Prestressed Concrete Beam, Type BT-72
1390	907-804-C016	(S)	10,852	Linear Feet	40' Prestressed Concrete Beam, Type I+2
1400	907-804-C030	(S)	957	Linear Feet	80' Prestressed Concrete Beam, Type III
1410	907-804-C150	(S)	659	Linear Feet	110' Prestressed Concrete Beam, Type IV
1420	907-804-C171	(S)	1,197	Linear Feet	100' Prestressed Concrete Beam, Type IV

STATE	PROJECT NO.
MISS.	BR-0019-02(054)

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McCOLLUM

PS & E PLANS-DATE: 07/16/2014		
FMS CON. # 105189/302000		
REVISIONS		
DATE	SHEET NO.	BY
12-03-14	11, 13, 65	BK
12-22-14	14	BK
1-05-15	1, 2, 3, 5, 1001, 1002, 1003	BK
3-12-15	3, 13, 72, 111	SP

1

BY	CHANGED PROJECT NUMBER REVISION	DATE
BK		1-05-15

MISSISSIPPI DEPARTMENT OF TRANSPORTATION

DETAILED INDEX

PROJECT NO. BR-0019-02(054) 1
COUNTY : BENTON

WORKING NUMBER
DI-1

SHEET NUMBER
2

FILENAME: DETAIL INDEX.DGN
DESIGN TEAM McCOLLUM CHECKED DATE

PLAN
ROADWAY DESIGN DIVISION
MISSISSIPPI DEPARTMENT OF TRANSPORTATION

3/13/2015 9:16 AM DETAIL INDEX.DGN

ADDENDUM

STATE	PROJECT NO.
MISS.	BR-0019-02(042)

DESCRIPTION OF SHEET	REVISION DATE	WKG. NO.	SH. NO.
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TYPICAL TEMPORARY EROSION / SEDIMENT CONTROL APPLICATIONS		ECD-1	88
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ROCK DITCH CHECK		ECD-8	95
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INLET PROTECTION DETAILS OF SAND BAG		ECD-14	101
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EROSION CONTROL		EC-1	6140
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GUARD RAIL : "W" BEAM (WOOD POSTS)	3-01-02	GR-1	6180
GUARD RAIL : THRIE BEAM (WOOD POSTS)	3-01-02	GR-1A	6181
GUARD RAIL : "W" BEAM (STEEL POSTS)	3-01-02	GR-1B	6182
GUARD RAIL : MODIFIED THRIE BEAM (STEEL POSTS)	3-01-02	GR-1C	6183
GUARD RAIL : TYPICAL INSTALLATION AT BRIDGE APPROACHES FOR 2-LANE, 2-WAY HIGHWAYS	12-01-99	GR-4A	6195
GUARD RAIL : MISCELLANEOUS HARDWARE	3-01-02	GR-HW	6202
ROUTE SHIELDS AND "EXIT ONLY" PANELS		SN-2	6221
STANDARD ROADSIDE SIGNS		SN-3A	6223
STANDARD ROADSIDE SIGNS		SN-3B	6224
STANDARD ROADSIDE SIGN ASSEMBLY AND INSTALLATION		SN-4	6225
STANDARD ROADSIDE SIGN ASSEMBLY AND INSTALLATION		SN-4A	6226
STANDARD ROADSIDE SIGN ASSEMBLY AND INSTALLATION		SN-4B	6227
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TRAFFIC CONTROL PLAN MOBILE OPERATIONS MULTILANE ROADS AND TWO-LANE ROADS	12-01-99	TCP-11	6260
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SPUR DIKE: EARTH (12-01-99)	ED-1	6274
MISCELLANEOUS DETAIL SHEET 1. STACKED PIPE JOINT 2. EXCAVATION AT GRADE POINTS	MDS-1	6290
DETAILS OF PAVED FLUMES	PF-1	6291
PIPE CULVERT INSTALLATION	PI-1	6300
CONCRETE PIPE COLLAR	PC-1	6301
SMALL ANIMAL GUARD AND UNDERDRAIN MARKER	SAG-1	6327
FLARED END SECTION FOR CONCRETE PIPE	FE-1	6328
FLARED END SECTION FOR CONCRETE ARCH PIPE	FE-1A	6329
DETAILS OF NORMAL UNERDRAIN AND STORM DRAIN USED AS UNDERDRAIN	UD-1	6331
CROSS SECTIONS (66)		
MAINLINE		9001-9064
LOCAL ROAD AT STA. 982+15.36		9065-9066
TOTAL SHEETS (ROADWAY)		212 ⚠1⚠2

NO.	DATE	REVISION	BY
2	3-12-15	ADDED SHEET, CHANGED SHEET NUMBER	BK
1	1-26-15	ADDED SHEET, CHANGED SHEET TOTAL	BK

MISSISSIPPI DEPARTMENT OF TRANSPORTATION

DETAILED INDEX

PROJECT NO. BR-0019-02(042)
COUNTY : BENTON

WORKING NUMBER: DI-2

SHEET NUMBER: 3

FILENAME: DETAIL INDEX.DGN

DESIGN TEAM McCOLLUM CHECKED _____ DATE _____

PLAN
ROADWAY DESIGN DIVISION
MISSISSIPPI DEPARTMENT OF TRANSPORTATION

3/13/2015 9:16 AM DETAIL INDEX.DGN

ADDENDUM

STATE	PROJECT NO.
MISS.	BR-0019-02(042)

SUMMARY OF QUANTITIES (SHEET 3)

PAY ITEM NO.	PAY ITEM	UNIT	PRELIMINARY	FINAL	
907-603-ALT01	18" TYPE A ALTERNATE PIPE	LF	472		(1) (2) ⚠
907-603-ALT02	24" TYPE A ALTERNATE PIPE	LF	328		(1) ⚠
603-CA003	24" REINFORCED CONCRETE PIPE, CLASS III	LF	988		
603-CA004	30" REINFORCED CONCRETE PIPE, CLASS III	LF	120		
603-CA009	60" REINFORCED CONCRETE PIPE, CLASS III	LF	100		
603-CA015	24" REINFORCED CONCRETE PIPE, CLASS IV	LF	152		
603-CB002	24" REINFORCED CONCRETE END SECTION	EA	19		
603-CB003	30" REINFORCED CONCRETE END SECTION	EA	2		
603-CB008	60" REINFORCED CONCRETE END SECTION	EA	2		
603-CE004	44" X 27" CONCRETE ARCH PIPE, CLASS A III	LF	40		
603-CF004	44" X 27" CONCRETE ARCH PIPE END SECTION	EA	2		
					⚠ 2
					⚠ 2
					⚠ 2
					⚠ 2
					⚠ 2
606-B001	GUARD RAIL, CLASS A, TYPE 1	LF	1700		(3) ⚠
606-D012	GUARD RAIL, BRIDGE END SECTION, TYPE I	EA	16		
606-E002	GUARD RAIL, TERMINAL END SECTION, FLARED	EA	16		(4) ⚠
609-D002	COMBINATION CONCRETE CURB AND GUTTER TYPE 2	LF	220		
615-A018	CONCRETE BRIDGE END BARRIER, 33.5"	LF	160		
907-617-A001	RIGHT-OF-WAY MARKER	EA	66		
907-618-A001	MAINTENANCE OF TRAFFIC	LS	100%		
619-A1002	TEMPORARY TRAFFIC STRIPE, CONTINUOUS WHITE	MI	6		
619-A2001	TEMPORARY TRAFFIC STRIPE, CONTINUOUS YELLOW	LF	3248		
619-A4006	TEMPORARY TRAFFIC STRIPE, SKIP YELLOW	MI	3		
619-A5001	TEMPORARY TRAFFIC STRIPE, DETAIL	LF	3047		
619-A6001	TEMPORARY TRAFFIC STRIPE, LEGEND	LF	527		
619-C7001	TWO-WAY YELLOW REFLECTIVE HIGH PERFORMANCE RAISED MARKER	EA	266		
619-D1001	STANDARD ROADSIDE CONSTRUCTION SIGNS, LESS THAN 10 SQUARE FEET	SF	149		
619-D2001	STANDARD ROADSIDE CONSTRUCTION SIGNS, 10 SQUARE FEET OR MORE	SF	360		
619-G4001	BARRICADES, TYPE III, SINGLE FACED	LF	192		
619-G4005	BARRICADES, TYPE III, DOUBLE FACED	LF	24		
619-G5001	FREE STANDING PLASTIC DRUMS	EA	152		
619-G7001	WARNING LIGHTS, TYPE "B"	EA	2		

(1) TYPE A ALTERNATE
ZINC COATED CORRUGATED METAL PIPE, 12 GA. (2 2⁄3" X 1⁄2" CORRUGATION) OR ALUMINUM COATED CORRUGATED METAL PIPE, 14 GA. (2 2⁄3" X 1⁄2" CORRUGATION) OR REINFORCED CONCRETE PIPE CLASS III OR CORRUGATED POLYETHYLENE PIPE OR POLYMERIC COATED CORRUGATED METAL PIPE, 16 GA. (2 2⁄3" X 1⁄2" CORRUGATION).

(2) INCLUDES 72 L.F. FOR TEMPORARY

(3) LENGTH OF GUARDRAIL REQUIRED IS BASED ON A TERMINAL SECTION OF 37.5 FEET BEING USED. FOR ANY OTHER LENGTH TERMINAL SECTION, THE LENGTH OF NORMAL GUARDRAIL WILL BE ADJUSTED.

(4) FLEAT–350, REGENT, SRT–350, ROSS–350 OR APPROVED FLARED EQUAL TO BE INSTALLED FOLLOWING MANUFACTURER'S RECOMMENDATIONS. CONTRACTOR SHALL PROVIDE TWO COPIES OF MANUFACTURER'S INSTALLATION DETAILS TO THE PROJECT ENGINEER. THE ENGINEER SHALL KEEP ONE COPY IN PROJECT FILE AND PROVIDE ONE COPY TO DISTRICT MAINTENANCE ENGINEER. THE INSTALLATION DETAILS SHALL BE ENGINEERING DRAWINGS, A MINIMUM OF 11" x 17" IN SIZE. REFLECTIVE ADHESIVE SHEETING WITH ALTERNATING BLACK AND YELLOW STRIPES (SLOPING DOWNWARD AT AN ANGLE OF 45 DEGREES IN THE DIRECTION TRAFFIC IS TO PASS) IS REQUIRED ON THE END OF THE TERMINAL SECTION. THE TYPE OF TERMINAL ERECTED SHALL BE WRITTEN ON THE BACK OF THE TERMINAL WITH A SANFORD MEANSTREAK WATERPROOF FORMULA PERMANENT MARKING STICK OR SOME OTHER MEANS OF PERMANENT IDENTIFICATION.

DATE	REVISION	BY
3-12-15	DELETED PAY ITEM	SP
12-3-14	MOVED FOOTNOTE CIRCLES	BK

MISSISSIPPI DEPARTMENT OF TRANSPORTATION
SUMMARY OF QUANTITIES

PROJ. NO.: BR-0019-02(042)
COUNTY: BENTON

WORKING NUMBER SQ-3

FILENAME: SQS_SH.DGN
DESIGN TEAM McCOLLUM CHECKED _____ DATE _____

SHEET NUMBER 13

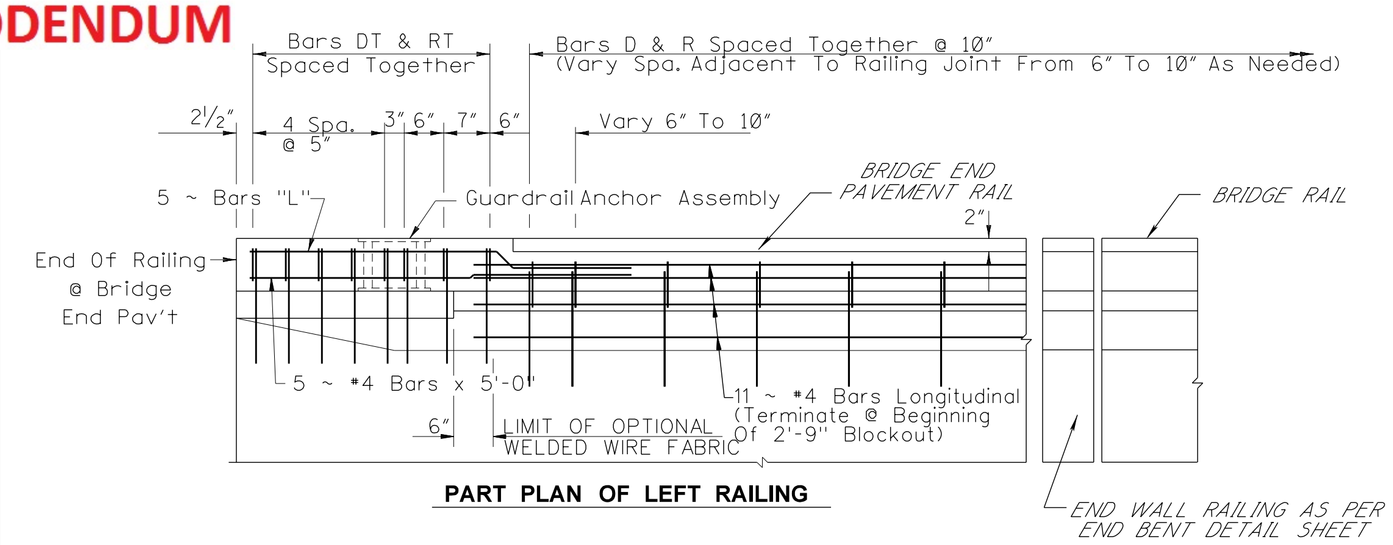
PLAN
ROADWAY DESIGN DIVISION
MISSISSIPPI DEPARTMENT OF TRANSPORTATION

3/13/2015 9:16 AM SQS_SH.DGN

FMS CON:

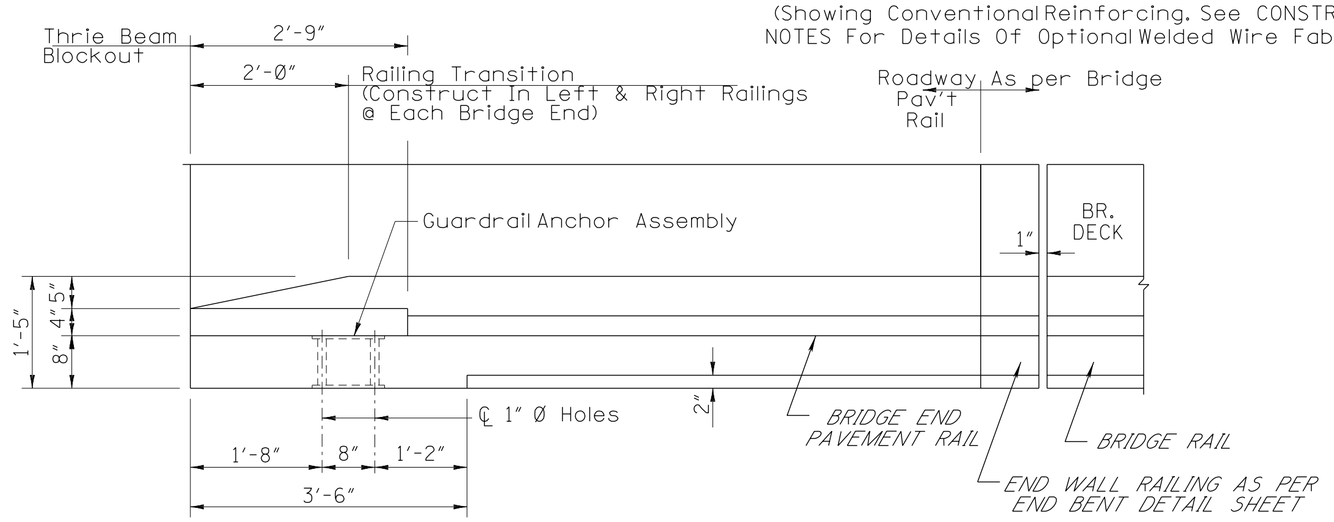
ADDENDUM

STATE	PROJECT NO.
MISS.	



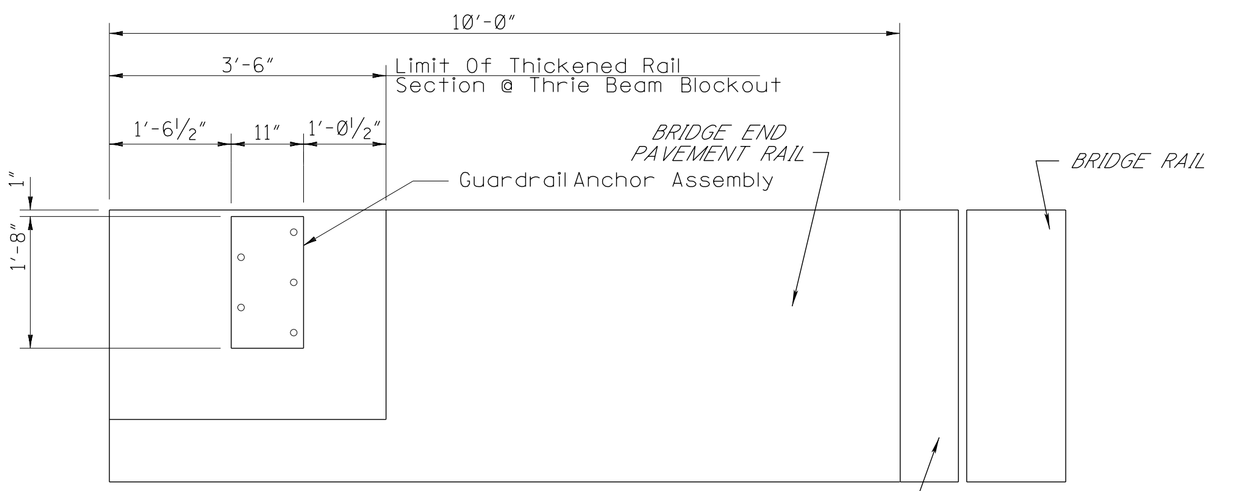
PART PLAN OF LEFT RAILING

(Showing Conventional Reinforcing. See CONSTRUCTION NOTES For Details Of Optional Welded Wire Fabric.)

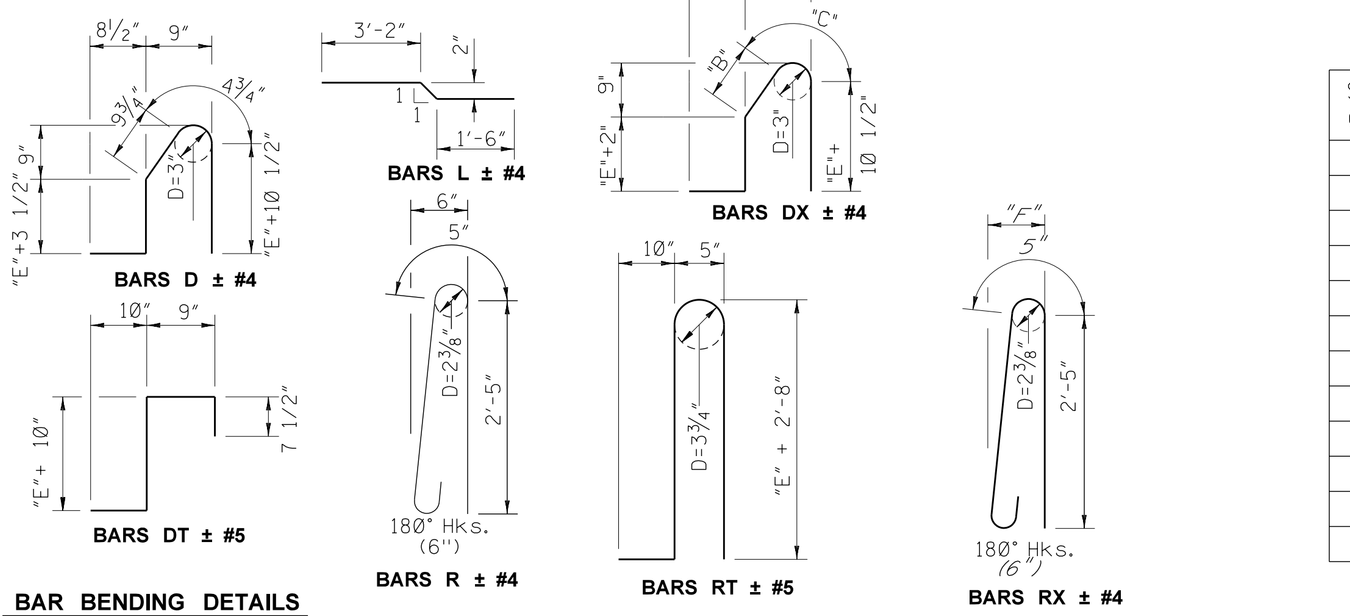


PART PLAN OF RIGHT RAILING

(Showing Concrete Dimensions)

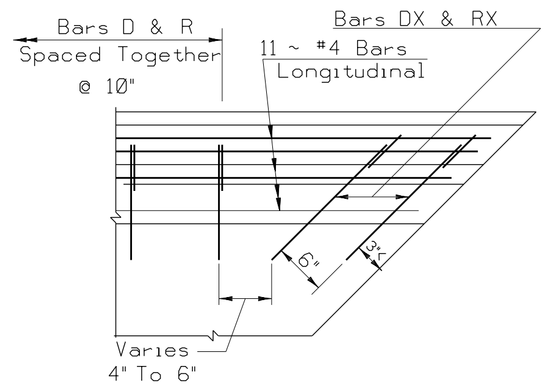


PART ELEVATION OF OUTSIDE FACE OF RAILING



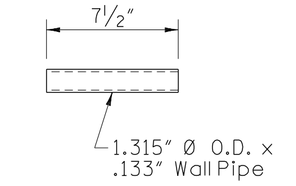
BAR BENDING DETAILS

Dimensions Are Out To Out NOTE:
"E" = Slab Thickness (In.) - 2 Inch.



SKEWED PART PLAN OF LEFT RAILING AT BRIDGE END WALL

(Showing Conventional Reinforcing. See CONSTRUCTION NOTES For Details Of Optional Welded Wire Fabric.)



PIPE SLEEVE DETAIL

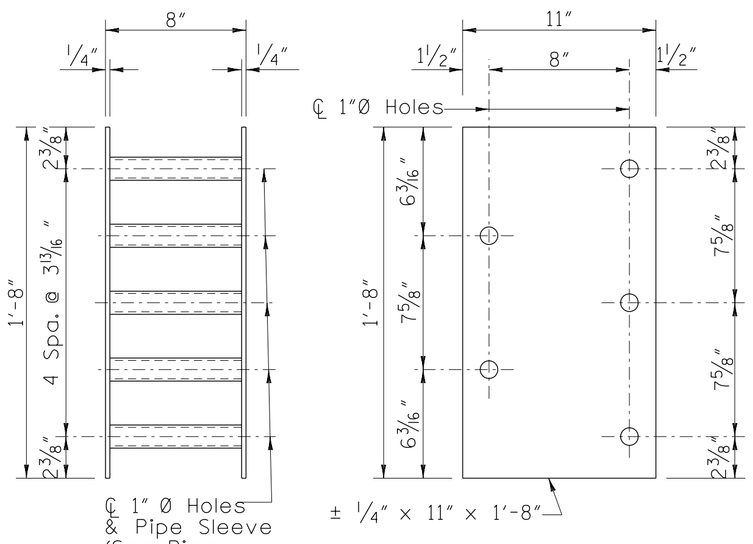
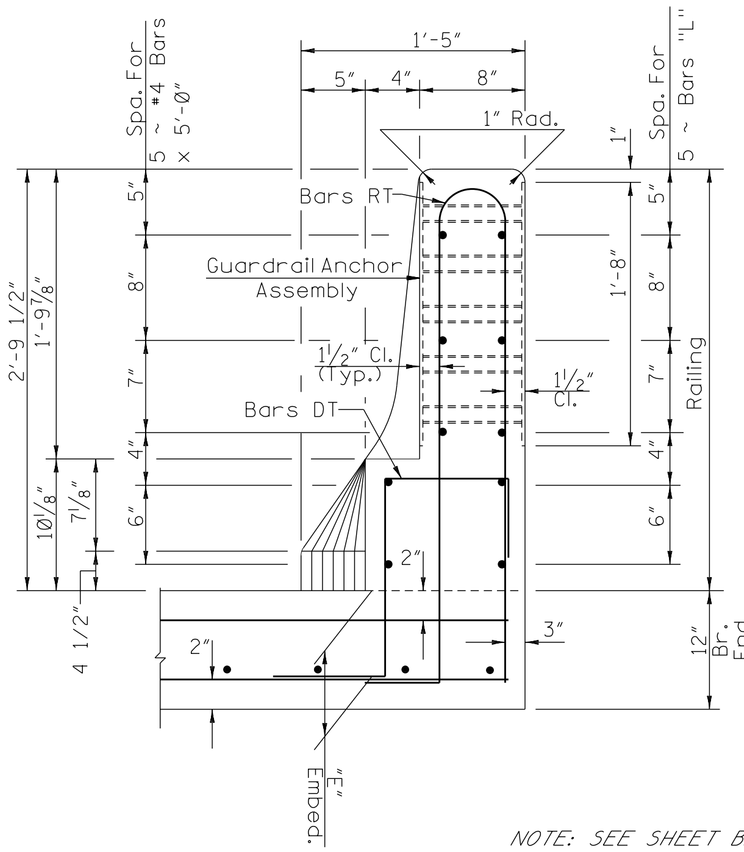


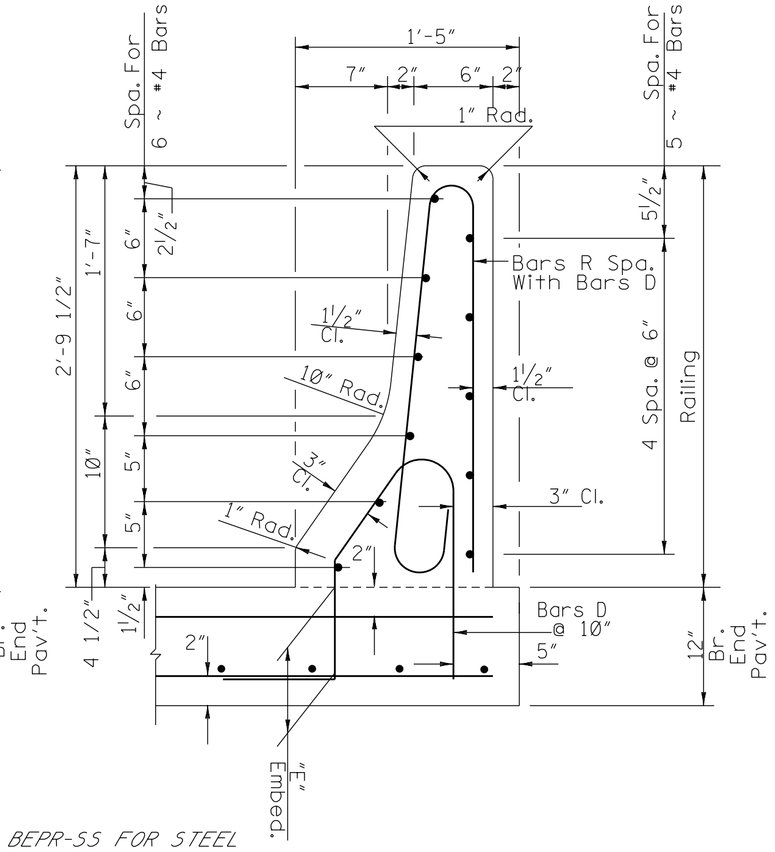
PLATE DETAIL

GUARDRAIL ANCHOR ASSEMBLY

SKEW (DEG)	BARS DX ~ #4			BARS RX ~ #4
	"A"	"B"	"C"	"F"
0	9"	9¾"	5"	6"
5	9"	9¾"	5"	6"
10	9"	9¾"	5"	6"
15	9¼"	10"	5"	6¼"
20	9½"	10"	5"	6¼"
25	10"	10½"	5"	6½"
30	10¼"	10½"	5"	7"
35	11"	11¼"	4¾"	7¼"
40	11¾"	11¾"	4¾"	7¾"
45	1'-0¼"	1'-0¾"	4½"	8½"
50	1'-2"	1'-1¾"	4½"	9¼"
55	1'-3¾"	1'-2½"	4½"	10½"



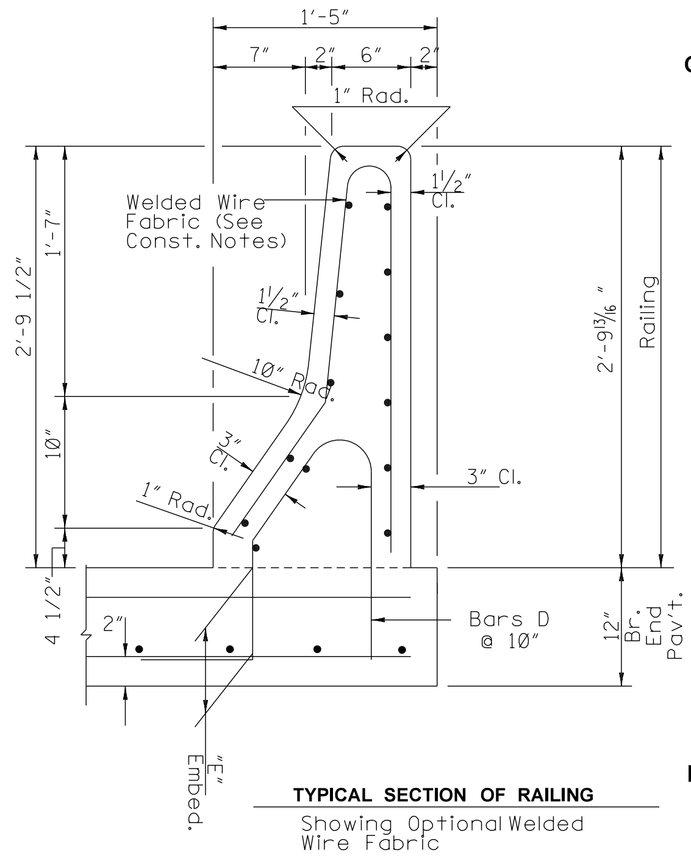
END ELEVATION OF RAILING



NOTE: SEE SHEET BEPR-55 FOR STEEL DETAILS OF BRIDGE END PAVEMENT

TYPICAL SECTION OF RAILING

NOTE: "E" = Slab Thickness (In.) - 2 Inch.



TYPICAL SECTION OF RAILING

Showing Optional Welded Wire Fabric

CONSTRUCTION NOTES:

Fabricate Guardrail Anchor Assemblies By Tack Welding Each End Of Pipe Sleeves To Plates. Plates Shall Be ASTM A 36 Steel. Pipes Shall Be ASTM A 120. Galvanize Complete Assemblies After Fabrication Per ASTM A 153.

Attach Assemblies Securely To Forms Prior To Pouring Railing Concrete To Assure That Exposed Surfaces Of The Assemblies Will Be Flush With Concrete Surfaces.

GUARDRAIL ANCHOR ASSEMBLIES SHALL BE INSTALLED IN BOTH LEFT AND RIGHT RAILINGS AT EACH END OF ALL BRIDGES.

Welded Wire Fabric Meeting The Requirements Of ASTM A 497 And Details Shown On This Sheet May Be Used As An Option To Conventional Railing Reinforcing. Longitudinal Wires Shall Be D8 Spaced As Shown In The BAR BENDING DETAILS And Vertical Wires Shall Be D8 Spaced At 4".

Welded Wire Fabric Shall Not Be Used In The 2'-9" Thrie Beam Blockout Reinforcement For The 2'-9" Thrie Beam Blockout Shall Consist Of Conventional Reinforcing As Shown In Details On This Sheet. The Longitudinal Bars Of The Conventional Reinforcing Shall Extend Beyond The 2'-9" Thrie Beam Blockout Into The Welded Wire Fabric A Minimum Distance Of 1'-6".

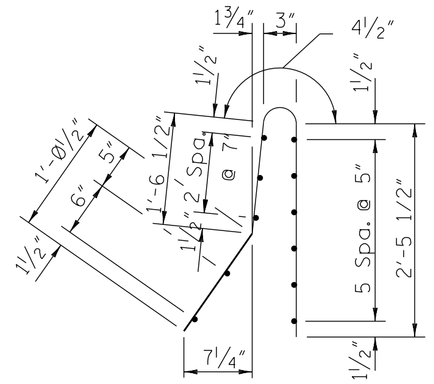
Bridge End Pavement Rail Shall Be Constructed And Paid For In Accordance With Section 813 Of The Standard Specifications.

4" Diameter weep hole to be placed in bridge end pavement rail where required to reduce ponding.

IF TOP LIFT IS ANYTHING OTHER THAN 1.5", THE LIFT SHALL BE TRANSITIONED TO 1.5" ACROSS THE LENGTH OF THE BRIDGE END SLAB.

DESIGN DATA

Specifications.....A.A.S.H.T.O. 1992 & Int. Thru 1995
Concrete.....Class "AA"(4,000 psi)
Reinforcing.....ASTM A 615 Grade 60 (Fy = 60 ksi)



WELDED WIRE FABRIC

(Optional - See CONSTRUCTION NOTES)

NO.	DATE	REVISION	BY	CK
1	3-12-15	ADDED SHEET	BK	

MISSISSIPPI DEPARTMENT OF TRANSPORTATION

33.5" BRIDGE END PAVEMENT RAIL

COUNTY: BENTON
PROJ. NUM.: BR-0019-02(054)
FILENAME: BRENDPAVERAIL_33-5.DGN
DESIGN TEAM _____ CHECKED _____ DATE _____

WORKING NUMBER: BEPR-1B
SHEET NUMBER: 72

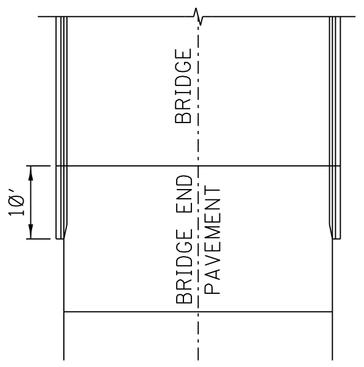
PLAN
ROADWAY DESIGN DIVISION
MISSISSIPPI DEPARTMENT OF TRANSPORTATION

3/13/2015 9:17 AM BRENDPAVERAIL_33-5.DGN

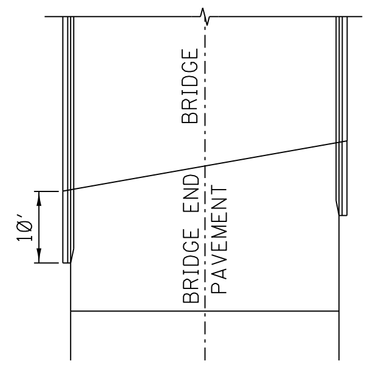
FMS CON:

ADDENDUM

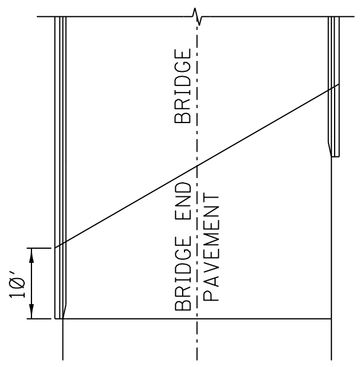
STATE	PROJECT NO.
MISS.	



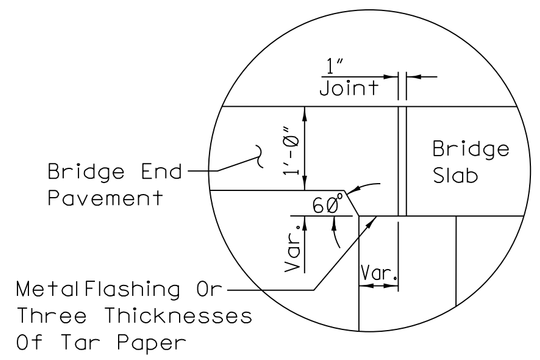
BRIDGE WITH NO SKEW



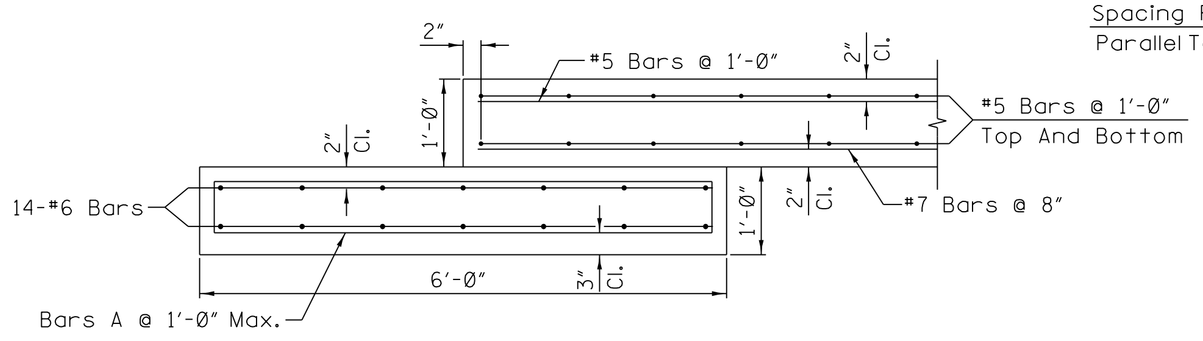
BRIDGE WITH SKEW AND 'A' MORE THAN 10'



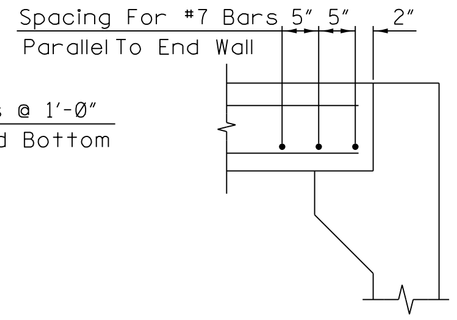
BRIDGE WITH SKEW AND 'A' EQUAL TO 10'



DETAIL SHOWING METHOD OF SEATING BRIDGE END PAVEMENT ON BRIDGES WITH NO PAVING BRACKET



SECTION C-C



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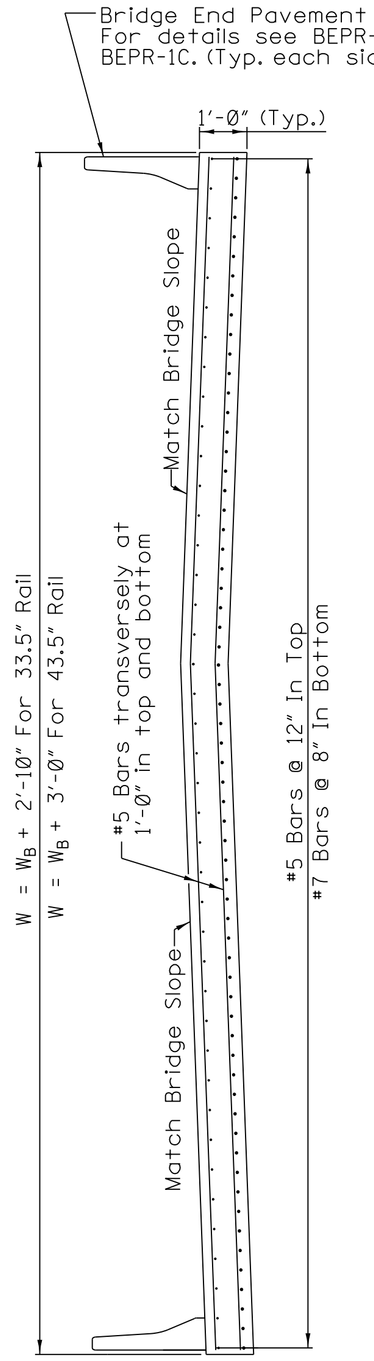
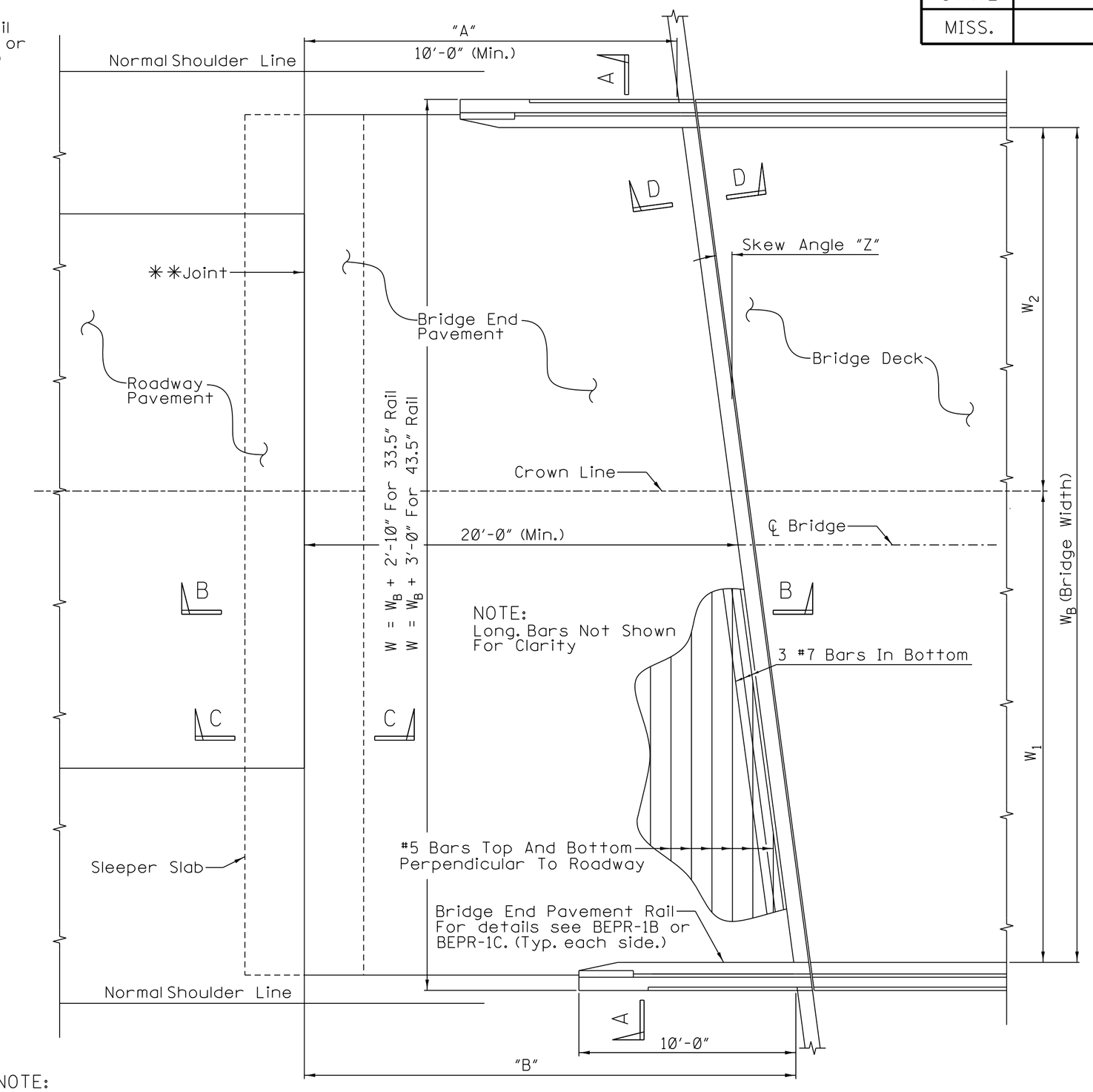
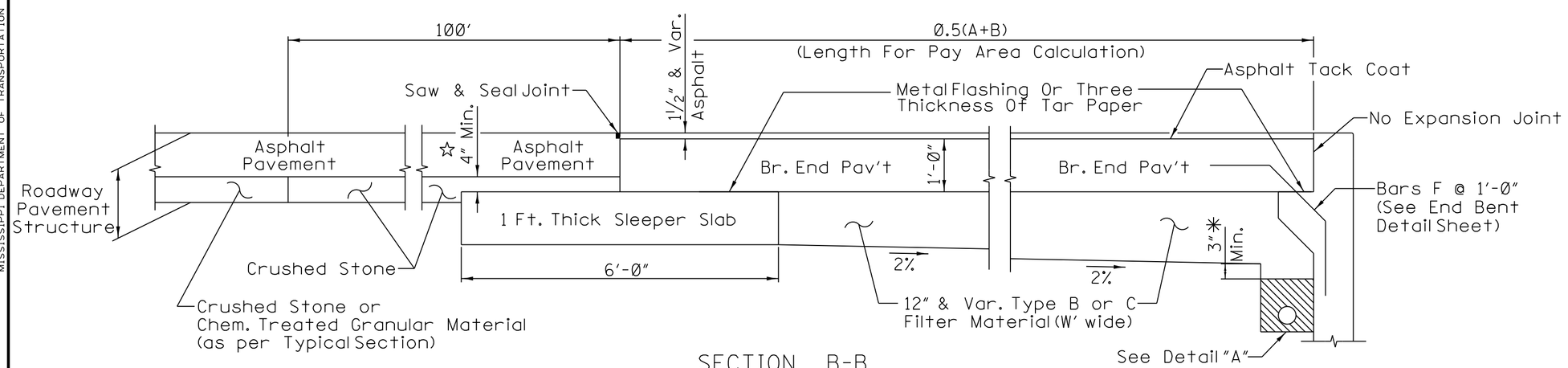


SECTION A-A



PLAN AT BRIDGE END



SECTION B-B

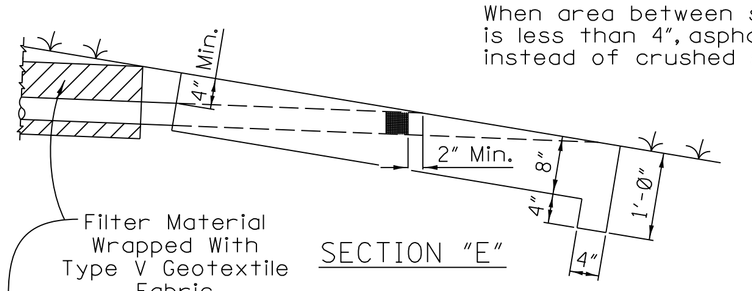
☆NOTE:
When area between sleeper slab and asphalt is less than 4", asphalt should be used instead of crushed stone.

✳NOTE:
Adjust as necessary to ensure proper drainage.

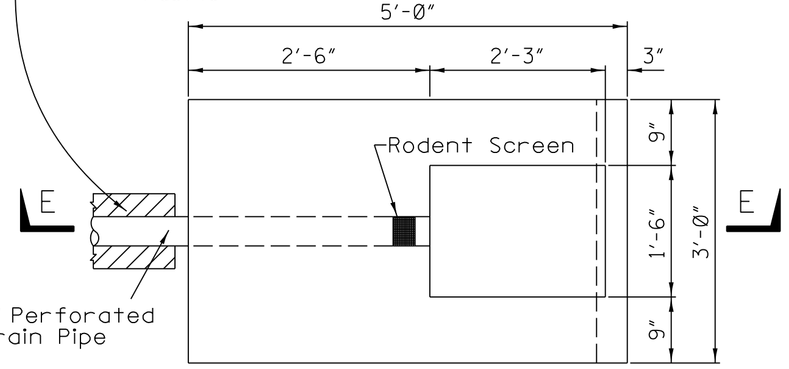
✳✳NOTE:
1" Premolded Expansion Joint Sealed With Poured Joint Filler (Doweled), This Joint Required Only If Roadway Pavement Is Concrete.

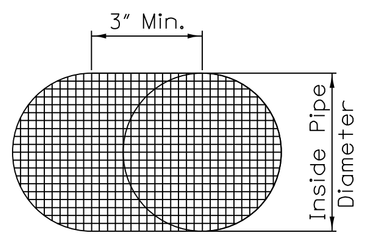
GENERAL NOTES:

1. If Bridge End Pavement is constructed in more than one section, longitudinal construction joints with tie bars shall be used. Tie bars shall be #5 bars, 2'-6" long and spaced 2'-6" o.c. Such construction shall be used where indicated on plans.
2. Dimensions "A" & "B" are based on a mid-length of 20 feet. Except in no case shall "A" be less than 10'-0".
3. See quantity section of plans for dimensions "W", "W_1", "W_2", "A", "B", skew angle "Z" and quantities.
4. Reinforcement (deformed) may be furnished full length or may be spliced. If bars are spliced, they shall be spliced not less than 30 diameters.
5. If top lift is anything other than 1.5", the lift shall be transitioned to 1.5" across the length of the bridge end slab.
6. Outlets shall be required on both sides in normal crown and only on the low side of superelevation.
7. All items are absorbed in the bridge end pavement pay item.



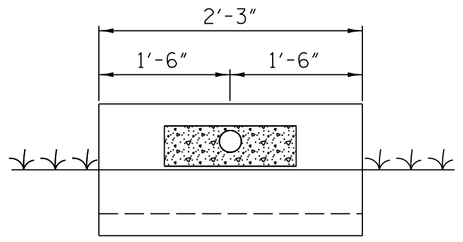
SECTION "E"





DETAIL OF RODENT SCREEN

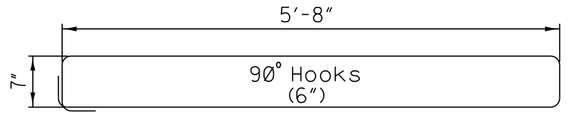
3x3 galvanized hardware cloth 0.063 wire or equal formed to fit snug to insode of pipe.



OUTLET APRON DETAIL

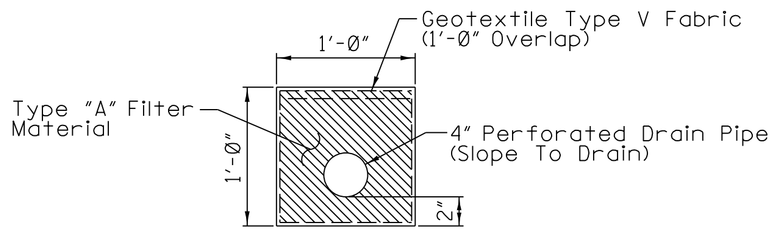
NOTES:

1. 0.363 C.Y. Class "C" concrete required for apron.
2. PVC pipe shall be either schedule 40 or 80 polyvinyl chloride plastic pipe.
3. Small animal guards shall be required on all exposed pipe openings by the end of the work day installed.
4. All fittings and joints to be constructed with smooth interior walls.
5. 4" perforated pipe daylighted at end of wingwall.



Bars A - #5

BAR BENDING DETAILS
Dimensions Are Out To Out



DETAIL "A"

BY	DATE	REVISION
BK	3-12-15	ADDED SHEET

MISSISSIPPI DEPARTMENT OF TRANSPORTATION

BRIDGE END PAVEMENT (WITH RAIL, OVERLAY, AND SLEEPER SLAB)

COUNTY: BENTON
PROJ. NUM.: BR-0019-02(054)

FILENAME: BRIDGE END PAVEMENT
DESIGN TEAM _____ CHECKED _____ DATE _____

WORKING NUMBER: BEPR-SS
SHEET NUMBER: 111

PLAN
ROADWAY DESIGN DIVISION
MISSISSIPPI DEPARTMENT OF TRANSPORTATION

3/13/2015 9:25 AM BEPR-SS.DGN