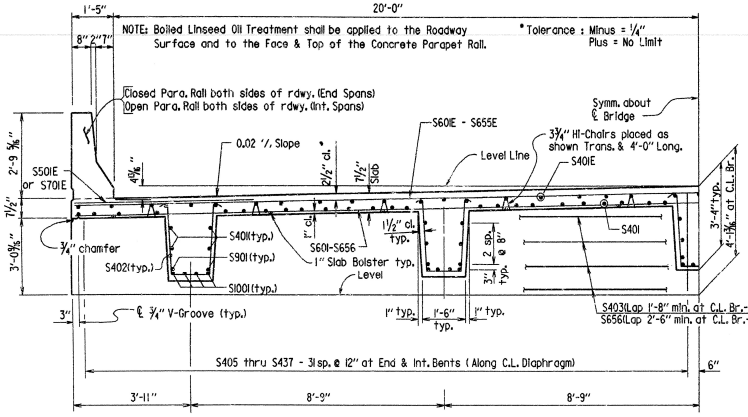
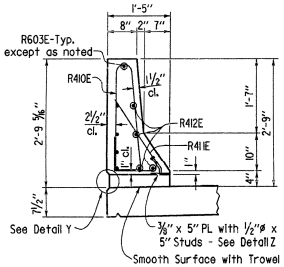
DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
				8	ARK.			
				JOB NO.		R90085	46	113
				① 6578		- SPAN DTL'S. -		34853



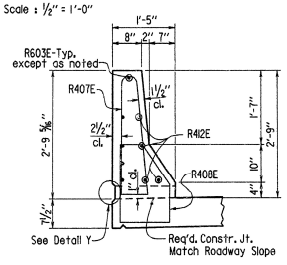
HALF-SECTION THRU ROADWAY

Scale : ½" = 1'-0"



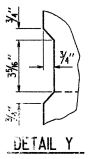
SECTION A-A

Scale : ¾" = 1'-0"



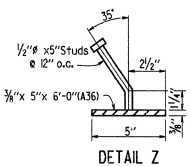
SECTION B-B

Scale : ¾" = 1'-0"



DETAIL Y

No Scale

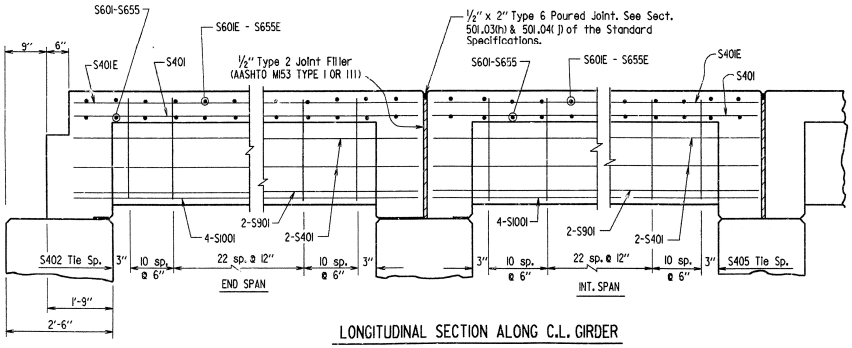


DETAIL Z

No Scale

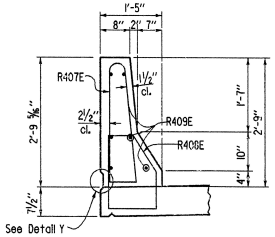
Note:
Parapet studs shall be 5" long, grcular flux filled, solid fluxed, or equal and automatically end welded to the plate. Studs and plate shall meet the requirements of Section 807. Studs and plates shall be measured and paid for as Structural Steel or Class S(AE) Concrete.

The surfaces of the ¾" plates which will not be in contact with concrete shall be painted in accordance with Section 638, or as approved by the Engineer. Only one prime coat is required where multiple coats are specified. All coats shall be applied in the fabricator's shop. Painting will not be paid for directly, but will be considered subsidiary Class S(AE) Concrete.



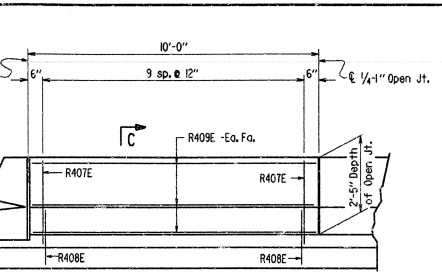
LONGITUDINAL SECTION ALONG C.L. GIRDER

No Scale



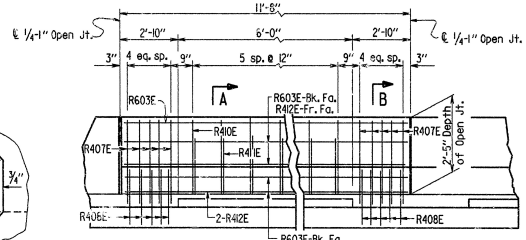
SECTION C-C

Scale : ¾" = 1'-0"



DETAILS OF CLOSED PARAPET RAILING @ END SPANS

Scale : ½" = 1'-0"



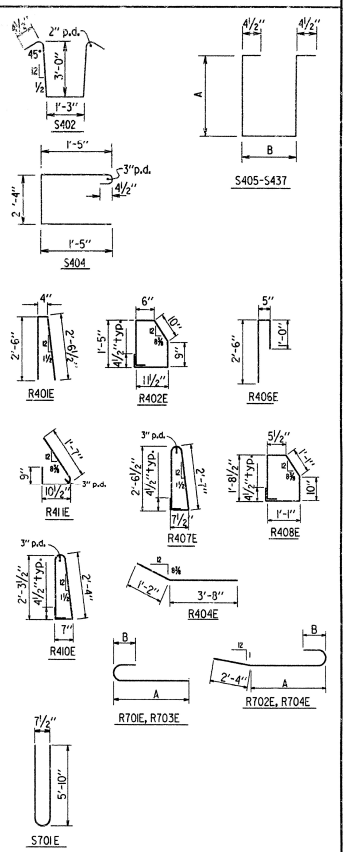
DETAILS OF OPEN PARAPET RAILING

Scale : ½" = 1'-0"

BAR LIST PER SPAN

MARK	NO. REQUIRED END	NO. REQUIRED INT.	LENGTH	A	B	P.D.
S401E	41	41	34'-8"			Str.
S401	68	68	34'-8"			Str.
S402	215	215	8'-1"			2"
S403	16	32	34'-6"			Str.
S404	64	—	5'-6"			2"
S405-S437	4 ea.	4 ea.	var. 7'-9" to 8'-7"	var. 3'-3" to 3'-8"	10"	2"
S501E	92	—	5'-7"			Str.
S601E - S654E	2 ea.	2 ea.	var. 2'-5" to 30'-3"			Str.
S601 - S654	2 ea.	2 ea.	var. 2'-5" to 30'-3"			Str.
S655E	20	20	29'-0"			Str.
S655	20	20	29'-0"			Str.
S656	18	—	34'-4"			Str.
S701E	—	28	11'-8"			6⅛"
S901	10	10	34'-8"			Str.
S1001	20	20	34'-8"			Str.
R401E	9	—	5'-2"			2"
R402E	9	—	4'-10"			2"
R403E	12	—	9'-6"			Str.
R404E	12	—	4'-10"			2"
R405E	12	—	6'-1"			Str.
R406E	11	—	3'-9"			2"
R407E	60	60	6'-4"			2"
R408E	60	60	5'-6"			2"
R409E	36	—	9'-8"			Str.
R410E	—	36	5'-10"			2"
R411E	—	36	3'-2"			2"
R412E	—	24	11'-4"			Str.
R601E	16	—	6'-1"			Str.
R602E	6	—	5'-0"			Str.
R603E	—	30	11'-4"			Str.
R701E	4	—	9'-2"	8'-3"	7"	5¼"
R702E	4	—	6'-2"	3'-0"	7"	5¼"
R703E	4	—	5'-11"	5'-1"	7"	5¼"
R704E	4	—	7'-1"	3'-11"	7"	5¼"

BENDING DIAGRAMS



Dimensions are out to out of bars.

E = Epoxy Coated Bars

STATE OF ARKANSAS
REGISTERED PROFESSIONAL ENGINEER
No. 2168
6-23-93
DALE P. LOE
BRIDGE ENGINEER

SHEET 1 OF 3

DETAILS OF 35'-0" R.C.D.G. SPANS

40'-0" CL. RDWY. 0.02"/. PEAKED CROWN

ROUTE 412 SEC. 5

ARKANSAS STATE HIGHWAY COMMISSION

LITTLE ROCK, ARK.

DRAWN BY: LDF DATE: 8-24-92

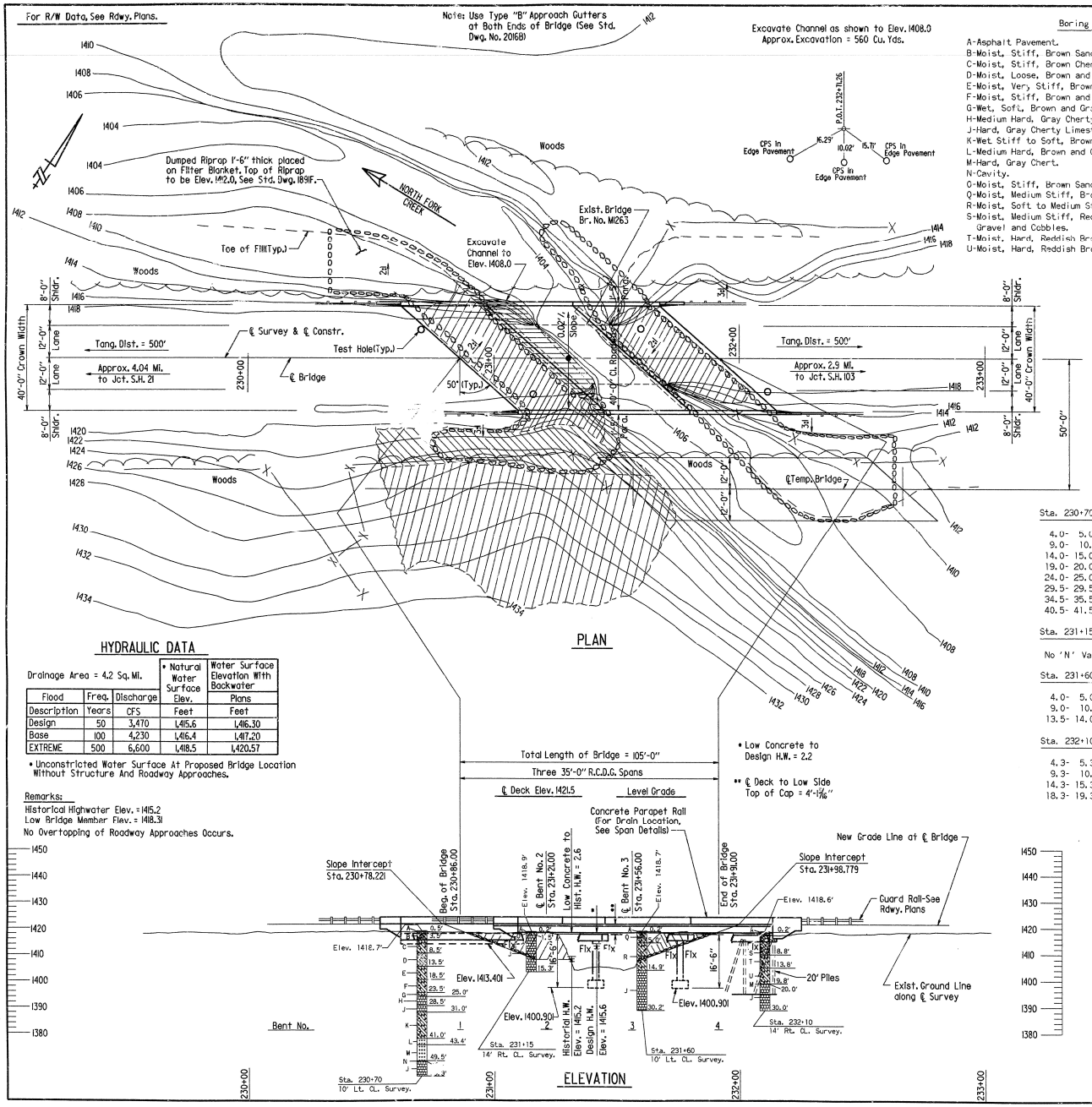
CHECKED BY: CSL DATE: Sept. 20 93 SCALE: AS NOTED

DESIGNED BY: STO. DATE: —

BRIDGE NO. 6578 DRAWING NO. 34853

BR90085.S5

LDFE546



DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		R90085	42	113
				(1) 6578		LAYOUT		34849

GENERAL NOTES

BENCH MARK: CPS in PP 35' Lt. of centerline, Sta. 236+30, Elev. 1422.46.

CONSTRUCTION SPECIFICATIONS: Arkansas State Highway and Transportation Department Standard Specifications for Highway Construction, 1992 edition, with applicable supplemental specifications and special provisions.

DESIGN SPECIFICATIONS: AASHTO Standard Specifications for Highway Bridges, 1992 with current interim specifications.

SEISMIC PERFORMANCE CATAGORY: A

LIVE LOADING: HS20 METHOD OF DESIGN: Load Factor

MATERIALS AND STRENGTHS:
Superstructure Concrete (see span dwgs.) f'c = 4,000 psi
Substructure Concrete (Class S) f'c = 3,500 psi
Reinforcing Steel (A615 or A617, Gr. 60) Fy = 60,000 psi

BORING LOGS: Boring logs may be obtained from the Programs and Contracts Division.

STEEL PILING: Piling in End Bent 4 shall be HP 10x42 and shall be driven with an approved air, steam, or diesel hammer to a minimum bearing capacity of 44 tons per pile and to a minimum penetration of 20' below natural ground. Piling in end bent shall be driven after embankment to bottom of cap is in place. Lengths of piling shown are assumed for estimating quantities only. Actual lengths to be determined in the field.
On all piles the contractor shall use approved steel H-Pile driving points.

FOOTING: Footing for Bent 1 shall be set at the Elevation shown on the Bridge layout. Footings for Bents 2 and 3 shall be set a minimum of 1'-6" into material designated as hard, gray cherty limestone on the boring legend and shall have a minimum cover above top of footings of 2.0 feet. Foundations for footings shall be prepared in accordance with section 801.04 of the Standard Specifications. Rock excavations shall be made to neat lines of the concrete footings. Care shall be exercised to avoid shattering of rock faces by excessive blasting. Concrete in footings shall be poured directly against excavated surfaces of rock.

BRIDGE DECK: The concrete deck shall be given a tine finish as specified for final finishing in subsection 802.20 for Class S Bridge Roadway Surface Finish.

BOILED LINSEED OIL: Boiled linseed oil treatment shall be applied to the roadway surface and to the face and top of the concrete parapet rail.

DETAIL DRAWINGS:

	DRAWING NO.
End Bent No. 1	34850
End Bent No. 4	34852
Intermediate Bents	34851
35'-0" R.C.D.C. Spans	34853-34855
Steel Piling	14995A
Type C Bridge Name Plate	2309A
Embankment Construction	1888A
Computing Excavation for Structures	1891F
Type B Approach Gutters	2016B
Temporary Bridge Structure	34856-34861

EXISTING BRIDGE: The existing bridge No. M263 (log mile 4.38) is 22' wide and 33' long and consists of a Steel and Concrete superstructure supported by a concrete substructure. The existing bridge is located on the center line of the proposed new bridge.

TEMPORARY BRIDGE: Construct a 122' long temporary bridge approximately 50' upstream The temporary bridge shall have a minimum roadway width of 24', minimum live load capacity of H5 and a minimum deck elevation of 1419.0. See section 603 of the standard specifications. See drawing numbers 34855 thru 34861 for temporary bridge details. If timber piling and pine timber are used on this temporary bridge structure, the materials shall be treated with a preservative according to the standard specifications. See roadway plans for actual detour grade and alignment. The span lengths shown on the detail drawings are minimum span lengths with bents skewed 45°. In lieu of skewing the bents 45° the contractor may submit plans for a square bridge if the minimum span lengths are increased to 47 feet and the minimum bridge length is increased to 173 feet. (Payment will be based on a 122' bridge length). The temporary bridge shall have a concrete deck.

REMOVAL AND SALVAGE: The existing bridge (M263) shall be removed in accordance with section 205 of the Standard Specifications. All material from the existing bridge shall become the property of the contractor.

STATE OF ARKANSAS
DALE F. LOY
REGISTERED PROFESSIONAL ENGINEER
No. 2168
9-23-92
BRIDGE ENGINEER

LAYOUT OF BRIDGE OVER NORTH FORK OF DRY FORK CREEK CARROLL COUNTY

ROUTE 412 SEC. 5

ARKANSAS STATE HIGHWAY COMMISSION

LITTLE ROCK, ARK.

DRAWN BY: LDF DATE: 4-9-92
CHECKED BY: CSL DATE: Sept. 20, 93 SCALE: 1" = 20'-0"
DESIGNED BY: JCB DATE: 9-20-93

BRIDGE NO. 6578 DRAWING NO. 34849

BR90085.LI

(1,550,300,BR90085.LI,LDFE546)