

FOR R/W DATA, SEE ROWY. PLANS

Notes: Type B Approach Gutters ("W" = 8'-0") shall be placed at both ends of the bridge. See Std. Drwg. No. 2016B

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.	050178	72 200
							07126	- LAYOUT - 49677

GENERAL NOTES

BENCH MARK: TBM #954, square cut in northeast corner of Bridge No. 02635, 85.04' right of Sta. 28+42.35, Elev. 587.55.

CONSTRUCTION SPECIFICATIONS: Arkansas State Highway and Transportation Department Standard Specifications for Highway Construction (2003 edition) with applicable supplemental specifications and special provisions. Unless otherwise noted in the plans, section and subsection refer to the Construction Specifications.

DESIGN SPECIFICATIONS: AASHTO LRFD Bridge Design Specifications, Fourth Edition, 2007.

LIVE LOADING: HL93

SEISMIC PERFORMANCE ZONE: I

MATERIALS AND STRENGTHS:

Class S(AE) Concrete (superstructure) $f'_c = 4,000$ psi
 Class S Concrete (substructure) $f'_c = 3,500$ psi
 Reinforcing Steel (AASHTO M31 or M53, GR. 60) $f_y = 60,000$ psi
 Structural Steel (AASHTO M270, GR. 50W) $F_y = 50,000$ psi
 Structural Steel (AASHTO M270, GR. 36) $F_y = 36,000$ psi

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

STEEL PILING: Piling in End Bents 1 and 4 shall be HP 12X53 and shall be driven with an approved air, steam, or diesel hammer into material designated as hard, gray sandstone on the boring legend. All piling shall be driven to a minimum safe bearing capacity of 70 tons per pile. Lengths of piling shown are for estimating quantities and for use in determining payment for cut-off and build-up in accordance with Section 805. Piles in end bents shall be driven after embankment to bottom of cap is in place. The Contractor shall use approved steel H-Pile driving points on all piles.

PREBORING: All piling shall be prebored to a minimum depth of 3 feet into the material designated as hard, gray sandstone on the boring legend. Quantities of preboring shown are for bidding purposes only. The actual size and depths of preboring are to be determined in the field by the Engineer. The Contractor shall be responsible for keeping prebored holes free from debris prior to backfilling which may require casings or other methods. After driving is completed, the prebored hole shall be backfilled with Class S Concrete to the top of rock and the remaining length of prebored hole shall be backfilled with Portland cement concrete, approved non-shrink grout, or other approved material to completely fill voids. The backfill and any required casings will not be paid for directly but shall be considered subsidiary to the item "Preboring."

FOOTINGS: Footings shall be set a minimum of 2'-0" into material designated as hard, gray sandstone on the boring legend and shall have a top of footing at or below natural ground. Foundations for footings shall be prepared in accordance with subsection 801.04 and backfilled according to subsection 801.08. Rock excavations shall be made to the 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 bridge deck shall be given a fine finish as specified for final finishing in subsection 802.19 for Class 5 Tined Bridge Roadway Surface Finish.

DETAIL DRAWINGS:

End Bents DRAWING NO. 49678-49680
 Int. Bents 49681
 Elastomeric Bearings 49682
 145'-0" Continuous W-Beam Unit 49683-49687
 Steel Piling 4995A
 Type B Approach Gutters 2016B

EXISTING BRIDGES: The existing two-span bridge No. 02635 (log mile 2.48) is 26.7' wide and 83' long and consists of a steel multi-beam superstructure with a concrete deck supported by a concrete substructure.

REMOVAL AND SALVAGE: After the new bridge is opened to traffic, existing Bridge No. 02635 shall be removed in accordance with Section 205. All material from the existing bridge shall become the property of the Contractor.

MAINTENANCE OF TRAFFIC: See Roadway Plans.

LAYOUT OF BRIDGE OVER HURRICANE CREEK MELBOURNE - BROCKWELL (PASSING LANES & STRS.) (S) IZARD COUNTY

ROUTE 9 SEC. 13
 ARKANSAS STATE HIGHWAY COMMISSION
 LITTLE ROCK, ARK.

DRAWN BY: JYP DATE: 9-5-07 FILENAME: b050178xl.lldgn

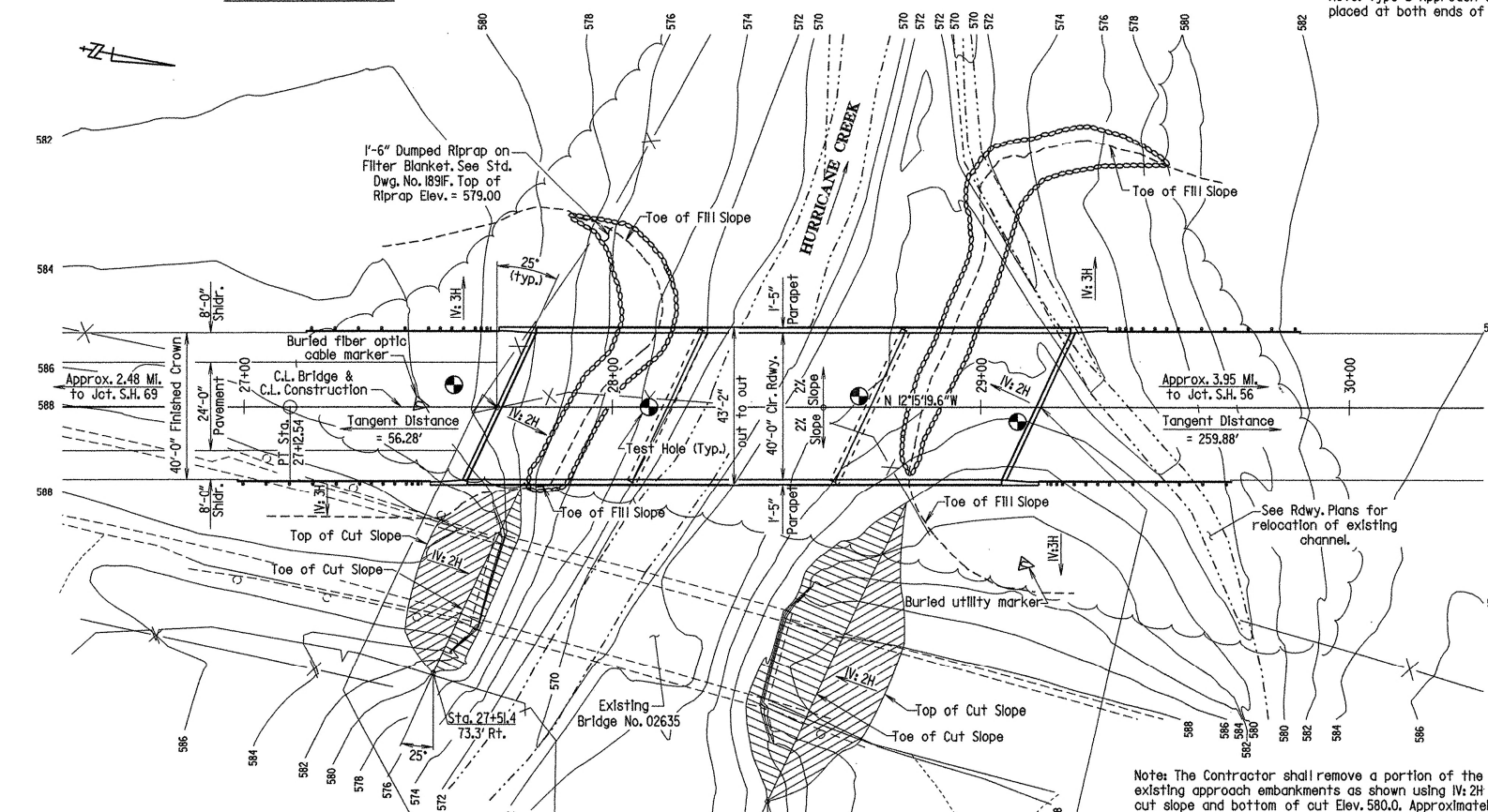
CHECKED BY: Kwy DATE: 5-30-09 SCALE: 1" = 20'

DESIGNED BY: JYP DATE: 9-07

BRIDGE NO. 07126 DRAWING NO. 49677



BRIDGE ENGINEER



Note: The Contractor shall remove a portion of the existing approach embankments as shown using 1V:2H cut slope and bottom of cut Elev. 580.0. Approximately 375 cubic yards of excavation.

BORING LEGEND

AI-Molst, Dense, Brown Sand, Gravel and Sandstone Fragments
 BI-Hard, Gray Saccharoidal Sandstone with some Fractured Seams
 CI-Molst, Very Dense, Brown to Gray Sand with Sandstone Fragments
 DI-Hard, Gray Saccharoidal Sandstone
 EI-Molst, Hard, Gray Sandy Clay with Sandstone Fragments
 FI-Molst, Very Dense, Gray Clay with Sand, Gravel and Sandstone Fragments

PROFILE GRADE LINE
ALONG C.L. BRIDGE

① Measured from Working Point at C.L. Bridge. See "Rounding Detail" on Drwg. No. 49683.

HYDRAULIC DATA

FLOOD DESCRIPTION	FREQUENCY YEARS	DISCHARGE CFS	*NATURAL WATER SURFACE ELEVATION FEET	WATER SURFACE ELEV. WITH BACKWATER FEET
Design	50	2230	578.1	579.6
Base	100	2570	578.6	580.3
Extreme	500	3420	579.6	581.9
Overtopping	>500	N/A	N/A	N/A

*Unconstricted water surface without structure or roadway approaches.
 Drainage area = 3.3 square miles.

PLAN

ELEVATION

