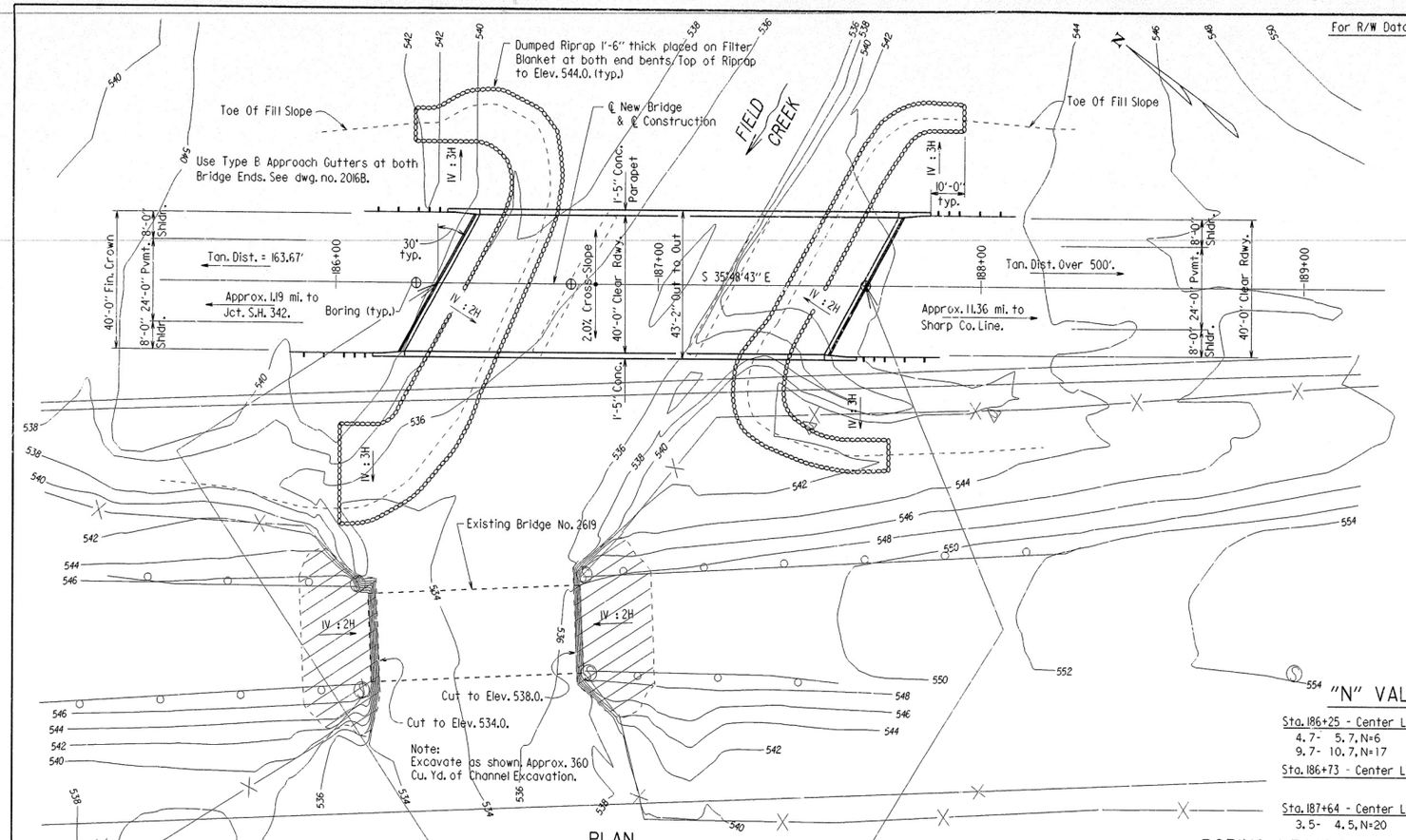
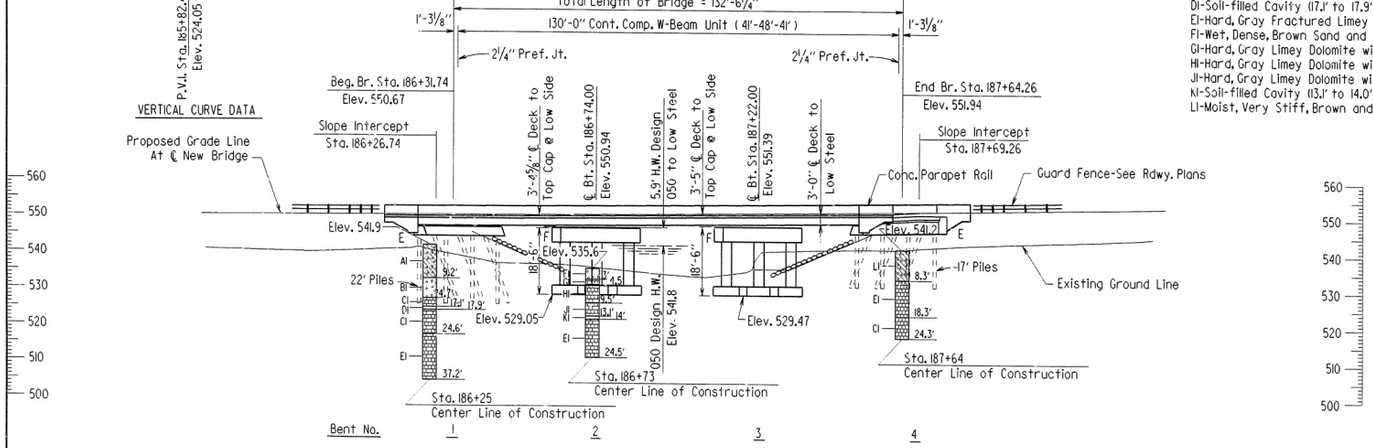
DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		050063	56	200
				06804		LAYOUT		41082

For R/W Data-See Rdwy. Plans



PLAN

Elevations shown at ℄ are Working Point Elevations
See Dwg. No. 41087



ELEVATION

VERTICAL CURVE DATA

"N" VALUES

Sta. 186+25 - Center Line of Construction
4.7- 5.7, N=6
9.7- 10.7, N=17

Sta. 186+73 - Center Line of Construction

Sta. 187+64 - Center Line of Construction
3.5- 4.5, N=20

BORING LEGEND

Al-Moist to Wet, Medium Stiff, Brown Sandy Clay with Gravel
Bl-Wet, Medium Dense, Brown Sand and Gravel
Cl-Hard, Gray Fractured Dolomite
Dl-Soil-filled Cavity (17.1' to 17.9')
El-Hard, Gray Fractured Limey Dolomite
Fl-Wet, Dense, Brown Sand and Gravel with some Cobbles
Gl-Hard, Gray Limey Dolomite with some Thin Clay Seams
Hl-Hard, Gray Limey Dolomite with some Fractured Seams
Jl-Hard, Gray Limey Dolomite with some Thin Clay and Fractured Seams
Kl-Soil-filled Cavity (13.1' to 14.0')
Ll-Moist, Very Stiff, Brown and Gray Sandy Clay with Gravel

HYDRAULIC DATA

FLOOD DESCRIPTION	FREQUENCY	DISCHARGE	*NATURAL WATER SURFACE ELEVATION	WATER SURFACE ELEV. WITH BACKWATER
	YEARS	CFS	FEET	FEET
Design	50	4540	541.8	543.6
Base	100	5400	542.3	544.6
Extreme	500	7550	543.3	547.0
Overtopping	>500	N.A.		

* Unconstricted water surface without structure or roadway approaches.
Drainage area = 6.8 sq. mi.
Historical H.W. Elev. 548.1

BENCH MARK: TBM #908 CPS 6" Dbl. Walnut 19.90' Lt. Sta. 194+02.083; Elev. 567.04.

CONSTRUCTION SPECIFICATIONS: Arkansas State Highway and Transportation Department Standard Specifications for Highway Construction, (1996 edition) with applicable supplemental specifications and special provisions. Section and Subsection refer to the Standard Construction Specification unless otherwise noted in the Plans.

DESIGN SPECIFICATIONS: AASHTO Standard Specifications for Highway Bridges, (1996 edition) with current interim specifications.

LIVE LOADING: HS20 METHOD OF DESIGN: Load Factor
SEISMIC PERFORMANCE CATEGORY: A

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)	fy = 60,000 psi
Structural Steel (AASHTO M270, Gr. 36)	fy = 36,000 psi
Structural Steel (AASHTO M270, Gr. 50W)	fy = 50,000 psi

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

STEEL PILING: All piling shall be HP12 x 53 and shall be driven with an approved air, steam or diesel hammer to a minimum safe bearing capacity of 55 tons per pile and into the material designated as hard dolomite on the boring legend Lengths shown are for estimating quantities and for use in determining payment for cut-off and build-up in accordance with the specifications. Piles in end bents to be driven after embankment to bottom of cap is in place. On all piles the contractor shall use approved steel H-Pile driving points. Actual pile lengths to be determined in the field.

FOOTINGS: Footings shall be set a minimum of 1'-6" into material designated as hard dolomite on the boring legend and shall have a min. cover above top of footings of 2'-0". 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 bridge deck shall be given a tine finish as specified for final finishing in subsection 802.19 for Class S Tined Bridge Roadway Surface Finish.

SURFACE TREATMENT: A Class I Protective Surface treatment shall be applied to the roadway surface and to the face and top of the concrete parapet rail.

DETAIL DRAWINGS:	DRAWING NO.
130' Cont. Comp. W-Beam Unit	41087 - 41092
End Bents	41083 - 41085
Int. Bents	41086

EXISTING BRIDGE: The existing bridge no. 2619 is 26' wide and 66' long and consists of 3-R.C. Slab Spans supported by concrete substructure.

REMOVAL AND SALVAGE: After the new bridge is open to traffic, existing bridge No. 2619 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.

MICROFILMED
JUN 21 2000

STATE OF ARKANSAS
Edward T. Fair
REGISTERED PROFESSIONAL ENGINEER
No. 3915
4-25-00
EDWARD T. FAIR

LAYOUT OF BRIDGE OVER FIELD CREEK
COLD SPRINGS CURVE-SOUTH (SAFETY IMPROVEMENT) (S)
FULTON COUNTY
ROUTE 63 SEC. I

ARKANSAS STATE HIGHWAY COMMISSION
LITTLE ROCK, ARK.

DRAWN BY: W.Maj. DATE: 2-1-2000 FILENAME: B050063x2.L2
CHECKED BY: GKA DATE: 4-20-00 SCALE: 1" = 20'