

BENCHMARK

Square cut on N.E. wingwall of 028-0023.
Elev. 409.29

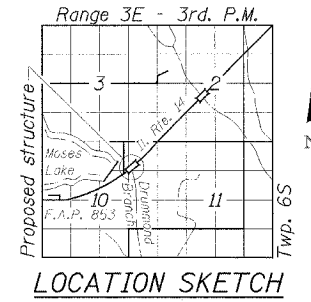
EXISTING STRUCTURE

028-0023. Built in 1924 as Route 14, Section 6B at Station 149+75 as a 1-span concrete slab superstructure, with a length of 30' Bk. to Bk. closed abutments, supported on timber pile footings. Bridge rail replacement in 1986 with 2" bituminous overlay.

PROPOSED STRUCTURE

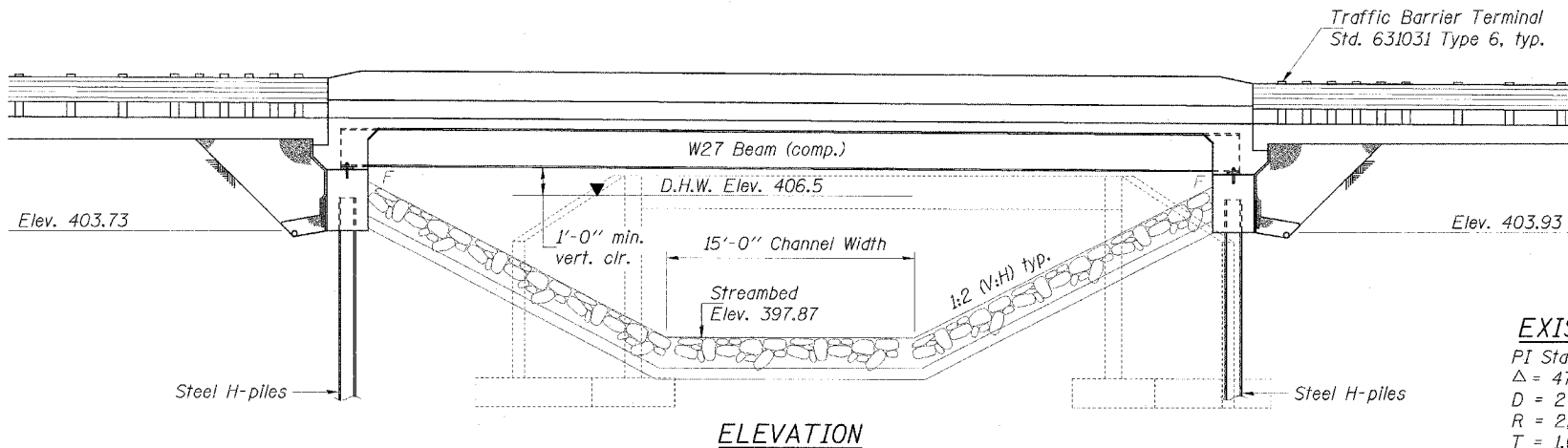
Existing bridge to be removed and replaced with a simple span steel stringer and concrete deck bridge on integral abutments. Traffic to be maintained utilizing stage construction.
No salvage.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
853	6B-1	FRANKLIN	44	27
STA.		TO STA.		
FED. ROAD DIST. NO. 7		ILLINOIS FED. AID PROJECT		
Contract #98645		SHEET 1 OF 18		



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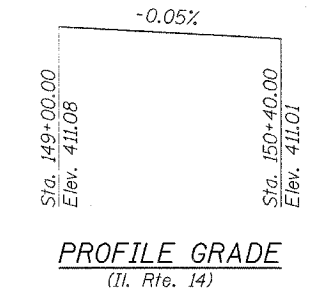


EXIST. CURVE DATA

PI Sta. = 140+89.72
 $\Delta = 47^\circ-48'-09''$ (LT)
 $D = 2^\circ-29'-59''$
 $R = 2,292.01'$
 $T = 1,015.74'$
 $L = 1,912.25'$
 $E = 214.99'$
 $e = 4.25\%$
 $T.R. = 60'$
 $S.E. RUN = 170'$
 $P.C. Sta. = 130+73.98$
 $P.T. Sta. = 149+86.23$
 $Normal Crown = 151+60.00$
 $Full S.E. = 149+30.00$

STATION 149+71.25
 BUILT 200_ BY
 STATE OF ILLINOIS
 F.A.P. RT 853 SEC. 6B-1
 LOADING HL-93
 STR. NO. 028-0075

NAME PLATE
See Std. 515001



LOADING HL-93

Allow 50#/sq. ft. for future wearing surface.

DESIGN SPECIFICATIONS

2004 LRFD AASHTO w/Interims thru 2006

DESIGN STRESSES

FIELD UNITS

$f'_c = 3,500$ psi
 $f_y = 60,000$ psi (reinforcement)
 $f_y = 50,000$ psi (structural steel M270 Grade 50)

SEISMIC DATA

Seismic Performance Zone (SPZ) = 2
 Bedrock Acceleration Coefficient (A) = 0.10g
 Site Coefficient (S) = 1.0

Design Scour Elevation (feet)	W. Abutment	E. Abutment
	403.76	404.00

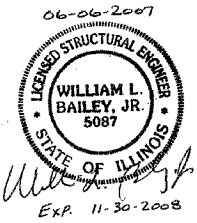
WATERWAY INFORMATION

Exist. Low Grade Elev. 409.83 ft. @ Sta. 151+00
 Drainage Area = 4.59 sq. mi. Prop. Low Grade Elev. 410.12 ft. @ Sta. 146+00

Flood	Freq. Yr.	Q C.F.S.	Opening Sq. Ft.		Nat. H.W.E.	Head - Ft.		Headwater El.	
			Exist.	Prop.		Exist.	Prop.	Exist.	Prop.
Design	10	640	182.2	258.8	406.1	0.2	0.0	406.3	406.1
Base	50	930	192.7	278.3	406.5	0.7	0.4	407.2	406.9
Overtopping	100	1,050	198.0	288.2	406.7	0.9	0.5	407.6	407.2
Max. Calc.	500	1,320	200.6	293.2	406.8	1.5	1.0	408.3	407.8

APPROVED
FOR STRUCTURAL ADEQUACY ONLY

Robert E. Ordman
ENGINEER OF BRIDGES AND STRUCTURES

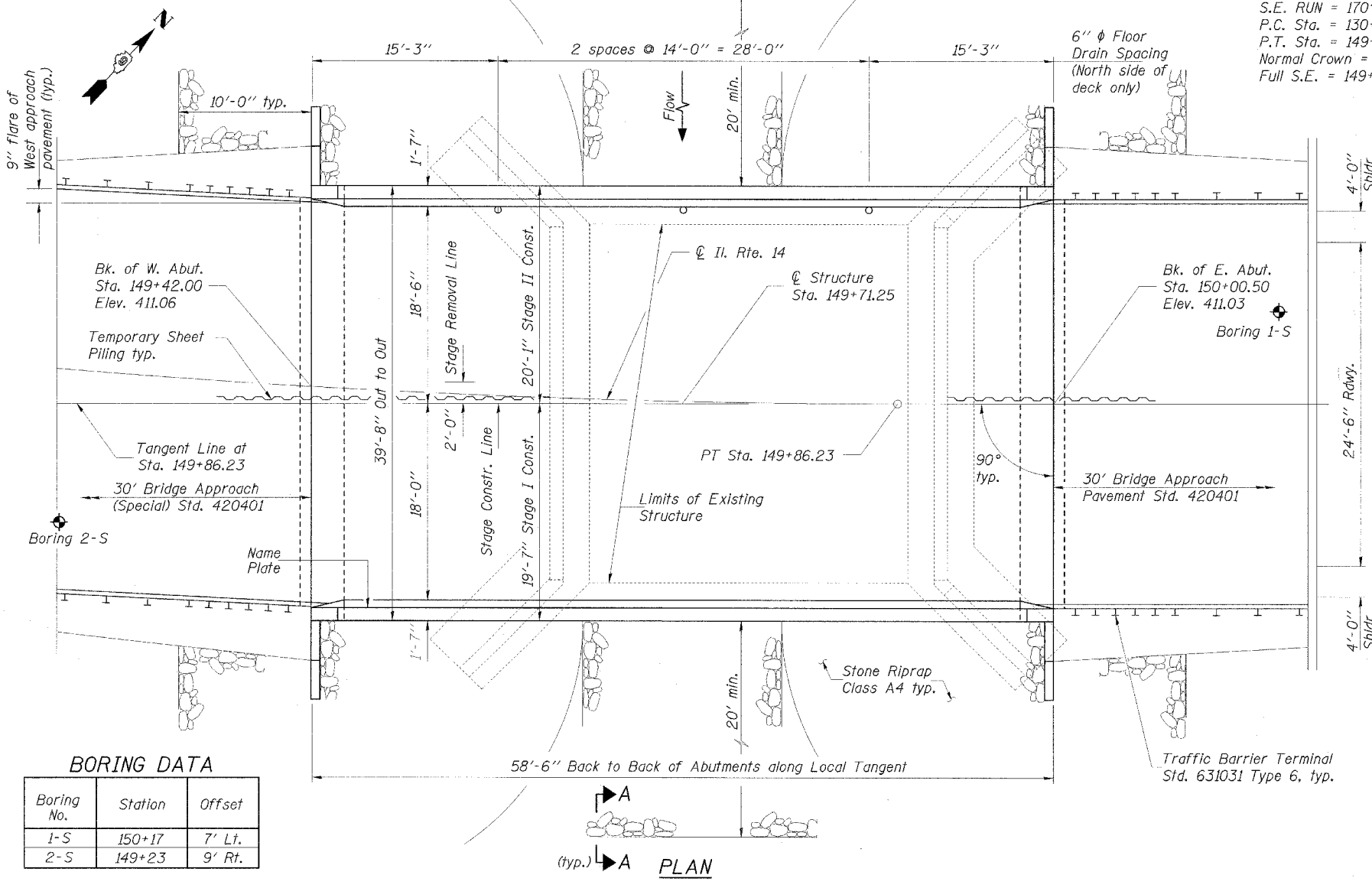
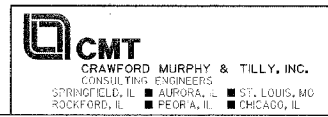


NOTES:

- 1. See Sheet 2 for riprap details and Section A-A.

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
GENERAL PLAN
 F.A.P. ROUTE 853 (IL. RTE. 14)
 ILLINOIS ROUTE 14 OVER
 DRUMMOND BRANCH
 SECTION 6B-1 STA. 149+71.25
 STR. NO. 028-0075 - FRANKLIN COUNTY
 SCALE: NONE DRAWN BY: GLD
 DATE: 6/6/07 CHECKED BY: WLB



BORING DATA

Boring No.	Station	Offset
1-S	150+17	7' Lt.
2-S	149+23	9' Rt.

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