

BENCHMARK: BM322-Chiseled square on top of SE Wingwall, SN 083-0041; Elev. 363.99

EXISTING STRUCTURE: SN 083-0041 was originally built in 1933 as SBI Rte 143, Section 105BC. Superstructure was replaced and substructure widened in 1976 as FA Rte 126, Section 105B-DR-4. The structure consists of a single span PPC Deck Beam superstructure supported on closed abutments. The closed abutments are founded on untreated timber piles. The bridge is 53'-5 3/4" bk. to bk. abutments on a 28°-20' right forward skew. The clear width between steel rails is 32'-6" and the out to out deck width is 33'-0".

Existing structure is to be removed and replaced. One lane of traffic will be maintained utilizing Stage Construction.

No salvage.

STATION 1649+21.25
BUILT 2008 BY
STATE OF ILLINOIS
FAP ROUTE 869 SECTION (105A)B-1
LOADING HS20-44
STR. NO. 083-0066

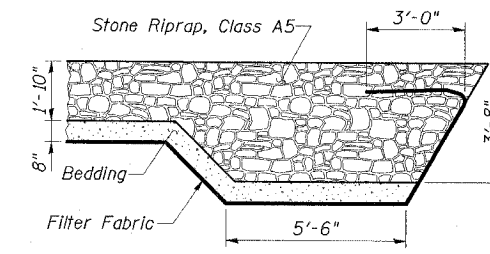
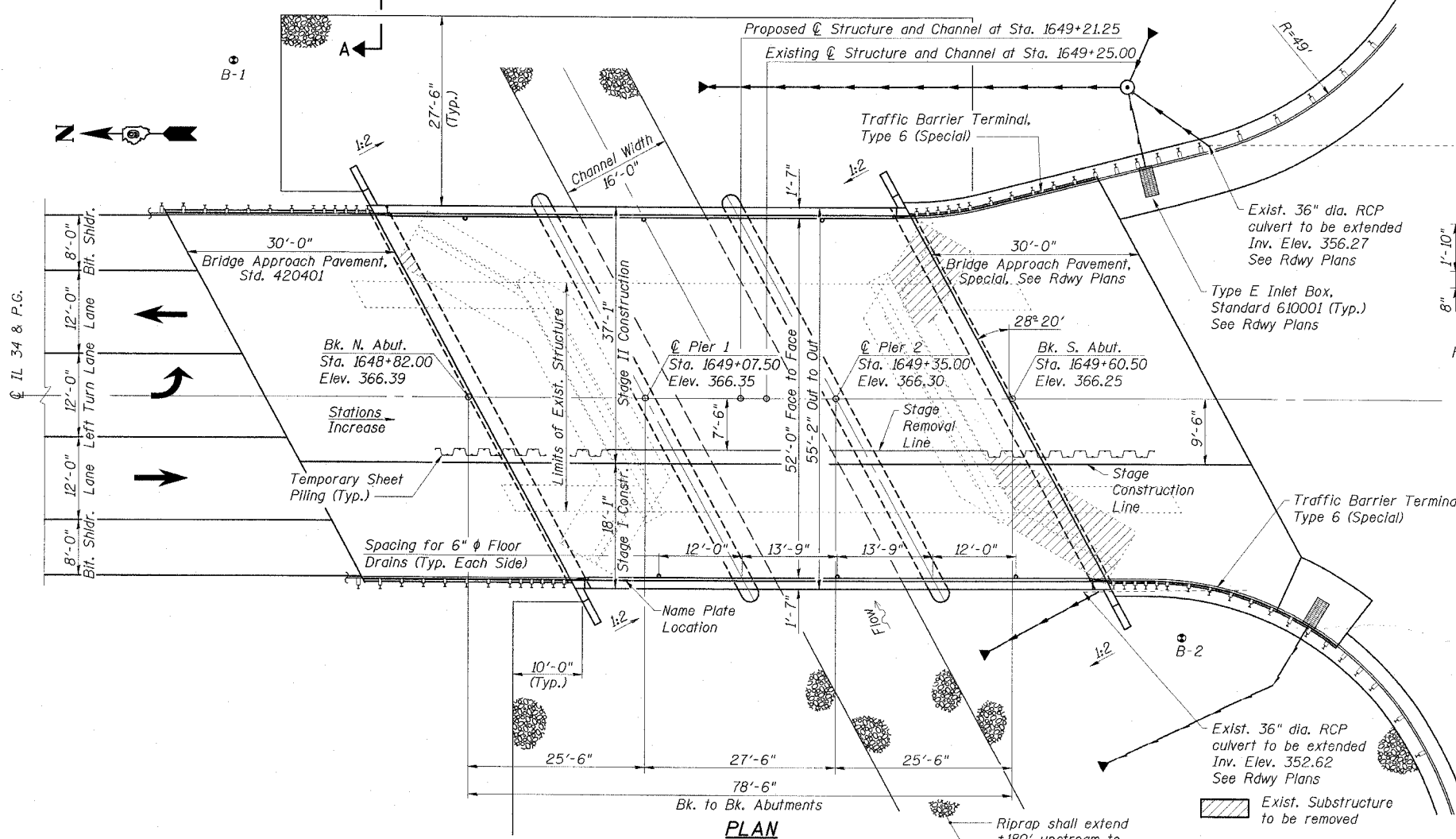
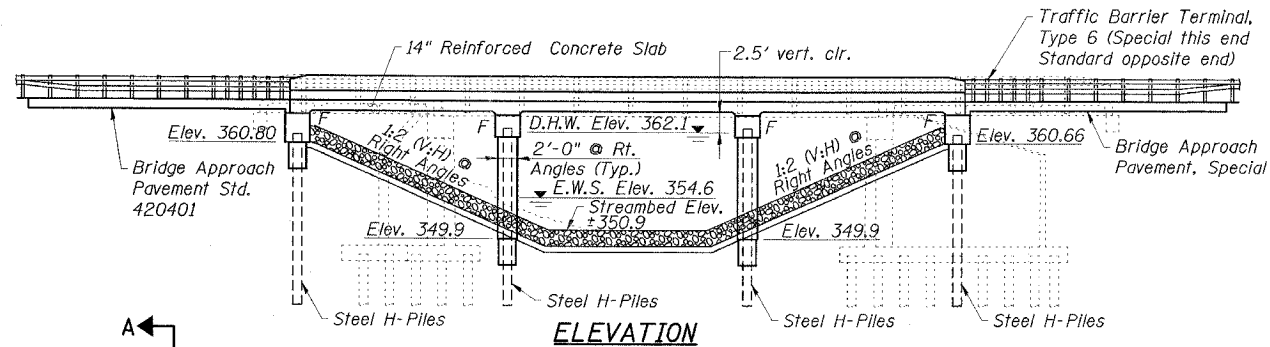
NAME PLATE
See Std. 515001

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	SHEETS	SHEET	SHEET NO.
FAP 869	#	SALINE	71	30	17 SHEETS
FED. ROAD DIST. NO.	ILLINOIS FIELD AND PROJECT	CONTRACT NO. 98999 *105A)B-1			

STRUCTURE INDEX OF SHEETS

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Top of North Approach Slab Elevations	Dwg. No. 6 of 17
Top of South Approach Slab Elevations	Dwg. No. 7 of 17
Superstructure	Dwg. No. 8 of 17
Superstructure Details	Dwg. No. 9-10 of 17
North Abutment	Dwg. No. 11 of 17
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Pier 1	Dwg. No. 13 of 17
Pier 2	Dwg. No. 14 of 17
Bar Splicer Assembly Details	Dwg. No. 15 of 17
Steel H-Pile Details	Dwg. No. 16 of 17
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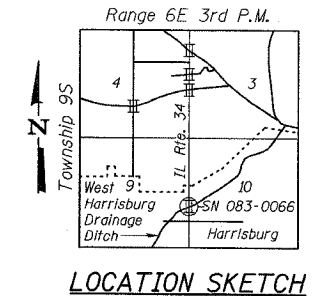


SECTION A-A

APPROVED
FOR STRUCTURAL ADEQUACY ONLY
Ralph E. Anderson
ENGINEER OF BRIDGES AND STRUCTURES



EXPIRES 11-30-08
Ralph E. Anderson
SIGNATURE
03-31-08
DATE



LOCATION SKETCH

DESIGN SCOUR ELEVATION TABLE

Design Scour Elevation (ft.)	N. Abut.	Pier 1	Pier 2	S. Abut.
	360.8	345.0	345.0	360.6

WATERWAY INFORMATION

Drainage Area = 5.43 Sq. Mi.		Exist. Low Grade Elev. = 365.86 Ft. @ Sta. 1636+00		Prop. Low Grade Elev. = 365.86 Ft. @ Sta. 1636+00				
Flood	Yr.	Q	C.F.S.	Opening (sq. ft.)	Nat. Head (ft.)	Headwater El.		
		Exist.	Prop.	H.W.E.	Exist.	Prop.		
Design	50	2750	386.6	393.4	362.1	1.8	363.9	363.8
Base	100	3230	406.9	416.5	362.5	3.1	365.6	364.6
Max. Calc.	500	4490	447.7	464.2	363.3	3.4	366.7	366.6

DESIGN SPECIFICATIONS

2002 AASHTO
LOADING HS20-44
Allow 50 psf for future wearing surface.
DESIGN STRESSES
FIELD UNITS
f'c = 3,500 psi
fy = 60,000 psi (Reinf.)
SEISMIC DATA
Seismic Performance Category (SPC) = B
Bedrock Acceleration Coefficient (A) = 0.108g
Site Coefficient (S) = 1.2

PROFILE GRADE
(Along & Roadway)

ESCA
CONSULTANTS, INC.

DESIGNED BY:	FMA	2/08
DRAWN BY:	DWH/cj	2/08
CHECKED BY:	RDP	2/08
APPROVED BY:	RDP	3/08

10-Year Velocity Through Exist. Bridge = 5.1 fps 10-Year Velocity Through Prop. Bridge = 5.0 fps