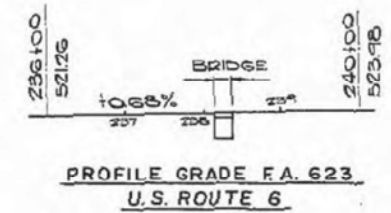
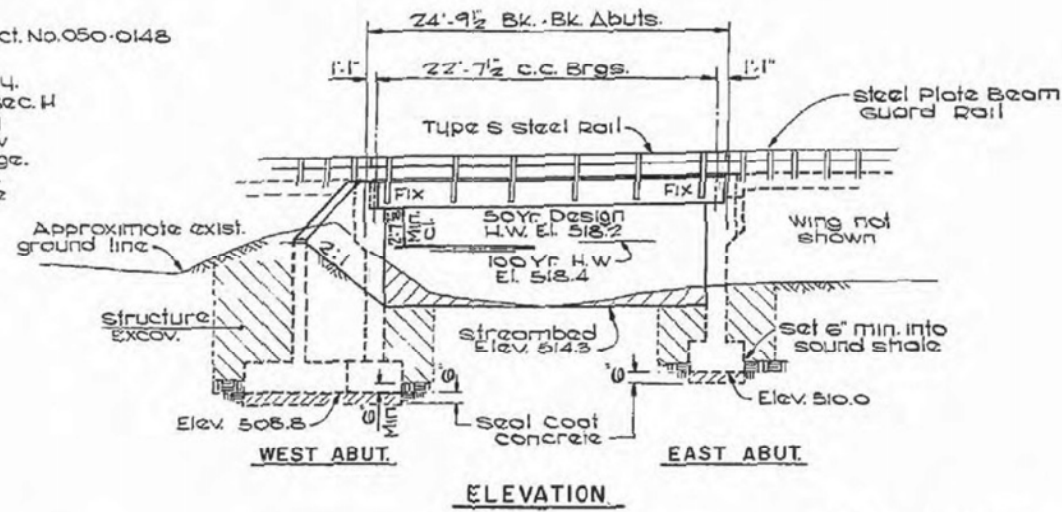


SECTION	LA SALLE	PROJECT	51
623 H-BR-1			

BENCH MARK: #13. "a" on S.W. wingwall of exist. bridge
Elev. 519.78

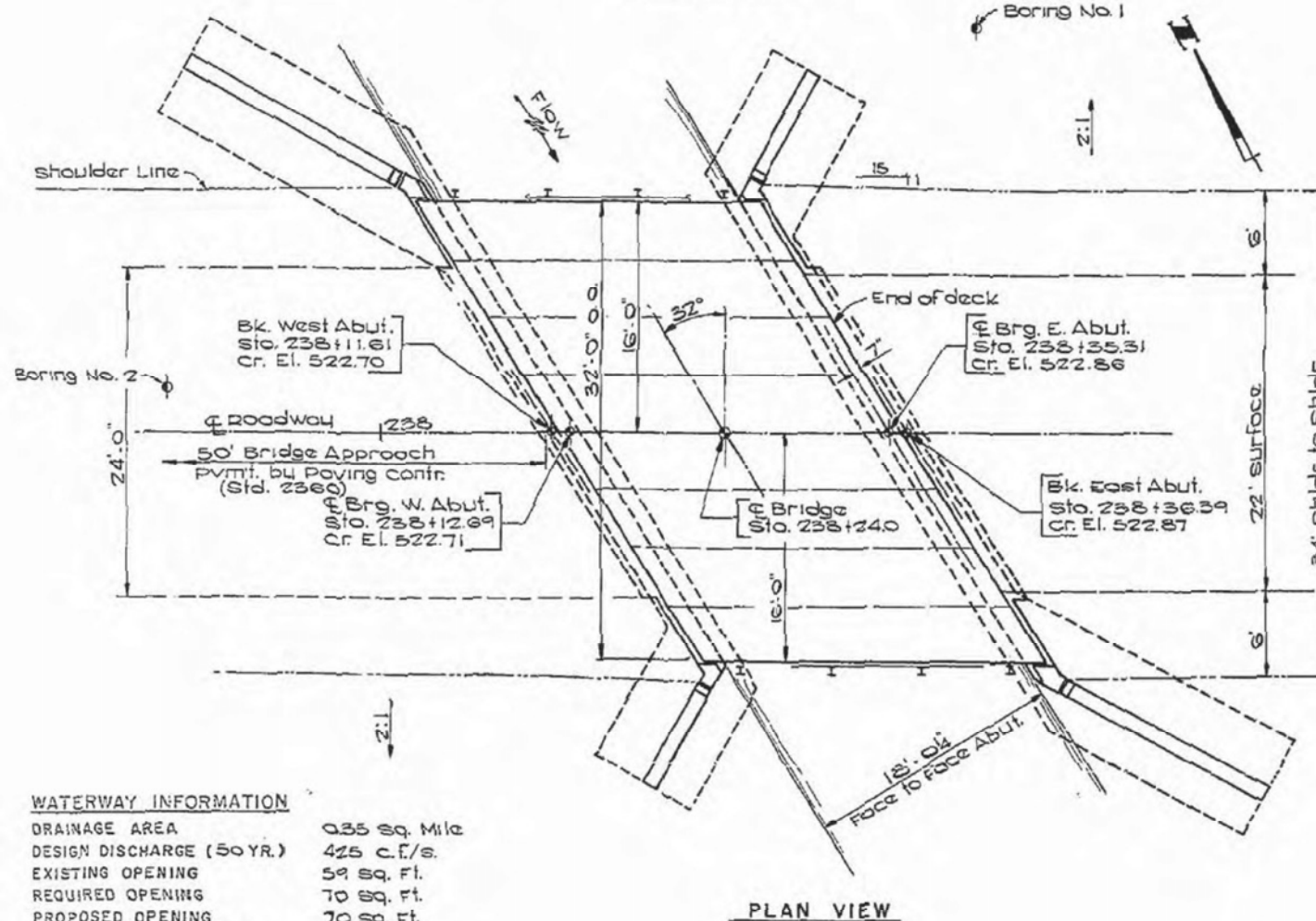
EXISTING STRUCTURE: Struct. No. 050-0148
A one span R.C. slab, 16' f.f.
R.C. closed Abutts. 20' Rdwy.
Bit. surface. Built 1920 as Sec. H
SBI Rt 7. To be removed by
Bridge Contractor after new
structure is built. No salvage.
Local traffic will use exist.
bridge while new structure
is being built.



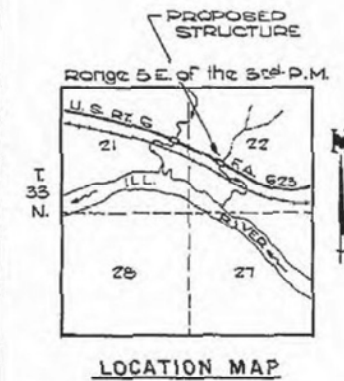
PROFILE GRADE F.A. 623
U.S. ROUTE 6

STATION 238+24
BUILT 1980 BY
STATE OF ILLINOIS
F.A. RT. 623 SEC. H-BR-1
LOADING HS 20
STR. NO. 050-0183
NAME PLATE LETTERING
STD. 2113

GENERAL NOTES
See Proposal for Boring Data.
Backfill shall be placed behind the abutments after the deck beams are in place. See Article 502.11 of the Standard Specifications.
Reinforcement bars shall conform to AASHTO: M-31 or M-53, Grade 60.
The top surface of the beams shall be finished in accordance with Article 505.06 of the standard specifications except that the surface shall not be roughened by brooming. The finished surface shall be free of depressions or high spots with sharp corners.
To prevent deterioration of shale during exposure in excavation the contractor shall undercut footing elevations 6" and immediately after excavation is removed pour 6" seal coat concrete to bottom of footing elevation.



- INDEX OF BRIDGE SHEETS**
- 1 General Plan & Elevation
 - 2 Deck Beam Details
 - 3 Type S Steel Railing
 - 4 West Abutment
 - 5 East Abutment



LOCATION MAP

BILL OF MATERIAL - BRIDGE

ITEM	UNIT	SUB.	SUPER.	TOTAL
CHANNEL EXCAVATION	CU. YDS.			180
REMOVAL OF EXISTING STRUCTURES	EACH			1
STRUCTURE EXCAVATION	CU. YDS.	272		272
ROCK EXCAVATION FOR STRUCTURES	CU. YDS.	22.6		22.6
CLASS X CONCRETE	CU. YDS.	119.6		119.6
SEAL COAT CONCRETE	CU. YDS.	11.2		11.2
PRECAST PRESTRESSED CONC. DECK BMS. (17)	SQ. FT.		768	768
STEEL RAILING, TYPE S	LIN. FT.		48	48
REINFORCEMENT BARS	LBS.	7470		7470
NAME PLATES	EACH		1	1
WATERPROOFING MEMBRANE SYSTEM	SQ. YDS.		103	103
PORTLAND CEMENT MORTAR FAIRING COURSE	LIN. FT.		168	168
BITUMINOUS CONCRETE, SURF. COURSE, C.L.I. MIX'D	TONS		8	8

WATERWAY INFORMATION

DRAINAGE AREA	0.35 sq. Mile
DESIGN DISCHARGE (50 YR.)	425 c.f./s.
EXISTING OPENING	59 sq. Ft.
REQUIRED OPENING	70 sq. Ft.
PROPOSED OPENING	70 sq. Ft.
CREATED HEAD (50 YR.)	0.65 Foot
100 YR. DISCHARGE	500 c.f./s.
CREATED HEAD (100 YR.)	0.86 Foot
HIGH WATER ELEV. (100 YR.)	518.4

DESIGN STRESSES

FIELD UNITS	PRESTRESSED UNITS
$f_s = 24,000$ p.s.i.	$f_c = 5000$ p.s.i.
$f_c = 1000$ p.s.i.	$f_{ci} = 4000$ p.s.i.
$v_c = 58$ p.s.i.	$f_s = 270,000$ p.s.i.
$n = 9$	$f_{si} = 189,000$ p.s.i.

Allowance for 25 p.s.f. future wearing surface

Designed using AASHTO Spec's. dated 1977 & interim spec's. dated 1978 & 1979.

APPROVED
FOR STRUCTURAL ADEQUACY ONLY
Carl E. Thompson Jr.
ENGINEER OF BRIDGE & TRAFFIC STRUCTURES

STA. 238+24.00
SECTION H-BR-1
F.A. ROUTE 623 U.S. ROUTE 6
LA SALLE COUNTY
GENERAL PLAN & ELEVATION

DESIGNED BY: S. THOMPSON DATE: SEPT. 1979
DRAWN BY: S. BROADBENT DATE: OCT. 1979
CHECKED BY: S. E. SUFFRMAN DATE: OCT. 1979
APPROVED BY: [Signature] DATE: [Blank]

WILLETT HOFMANN & ASSOCIATES, Inc.
Consulting Engineers

JOB/FILE NO. BRIDGE SHEET NO. 1 OF 5 SHEETS

LOADING HS 20 - 44

FILE NAME: ...04007-S0050-2054-005-ExistingPlans.dgn

ZROKA engineering
Zroka Engineering, P.C.
4216 North Hermitage
Chicago, IL 60613

USER NAME = SAW	DESIGNED - JLA	REVISED -
PLOT SCALE = 0:2.0000 "1" / IN.	CHECKED - DAZ	REVISED -
PLOT DATE = 8/15/2012	DRAWN - SAW	REVISED -
	CHECKED - JLA	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING BRIDGE PLANS
FOR INFORMATION ONLY

SHEET NO. 1 OF 7 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
623	(H) BR-1	LA SALLE	32	19
CONTRACT NO. 66A13				

ILLINOIS FED. AID PROJECT