

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

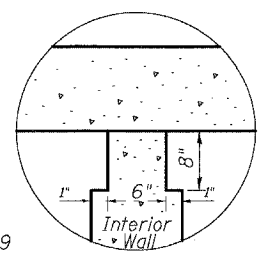
ROUTE NO.	SECTION	COUNTY	SHEET NO.	SHEET NO. 1
FAP 599	42	ROCK ISLAND	90	42
FED. ROAD DIST. NO. 7		ILLINOIS	FED. AID PROJECT-	

Contract NO: 64641

Bench Mark #400:
Cut "□" SE corner of west wingwall
at SW quad of 11 92 & 85th St West
Elev 579.76

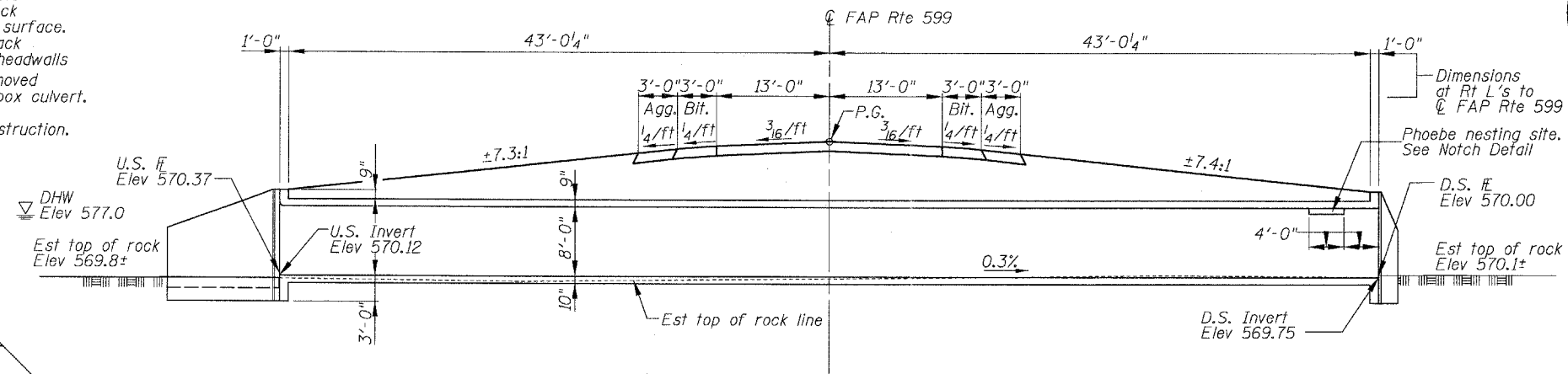
Existing Structure (SN 081-1001):
A single span, cast in place concrete
slab bridge with a 20" concrete deck
and a bituminous concrete wearing surface.
The bridge length is 21' back to back
of abutments and 53'-6" between headwalls.
The existing structure is to be removed
and replaced with a double 10'x8' box culvert.

The road will be closed during Construction.
No salvage.



NOTCH DETAIL

- GENERAL NOTES**
1. Reinforcement bars shall conform to the requirements of AASHTO M31, or M322 Grade 60.
 2. Excavation behind existing abutment walls shall be done before removing the existing superstructure.
 3. Precast concrete culvert construction option will not be allowed.
 4. All Construction joints shall be bonded.
 5. Excavate 1' underneath the proposed cutoff walls and the stem of the short wing walls into shale. The footprint of excavation shall extend 1' outside of each element. Use granular backfill as a replacement material.
 6. Over excavate 6" below the toe of the L type walls and restore the over excavation with seal coat concrete. The excavated area at the front face of the wall shall be filled with granular backfill. No over-excavation should occur behind the wing to allow the rear face of the stem and footing to be placed against the excavated shale surface.



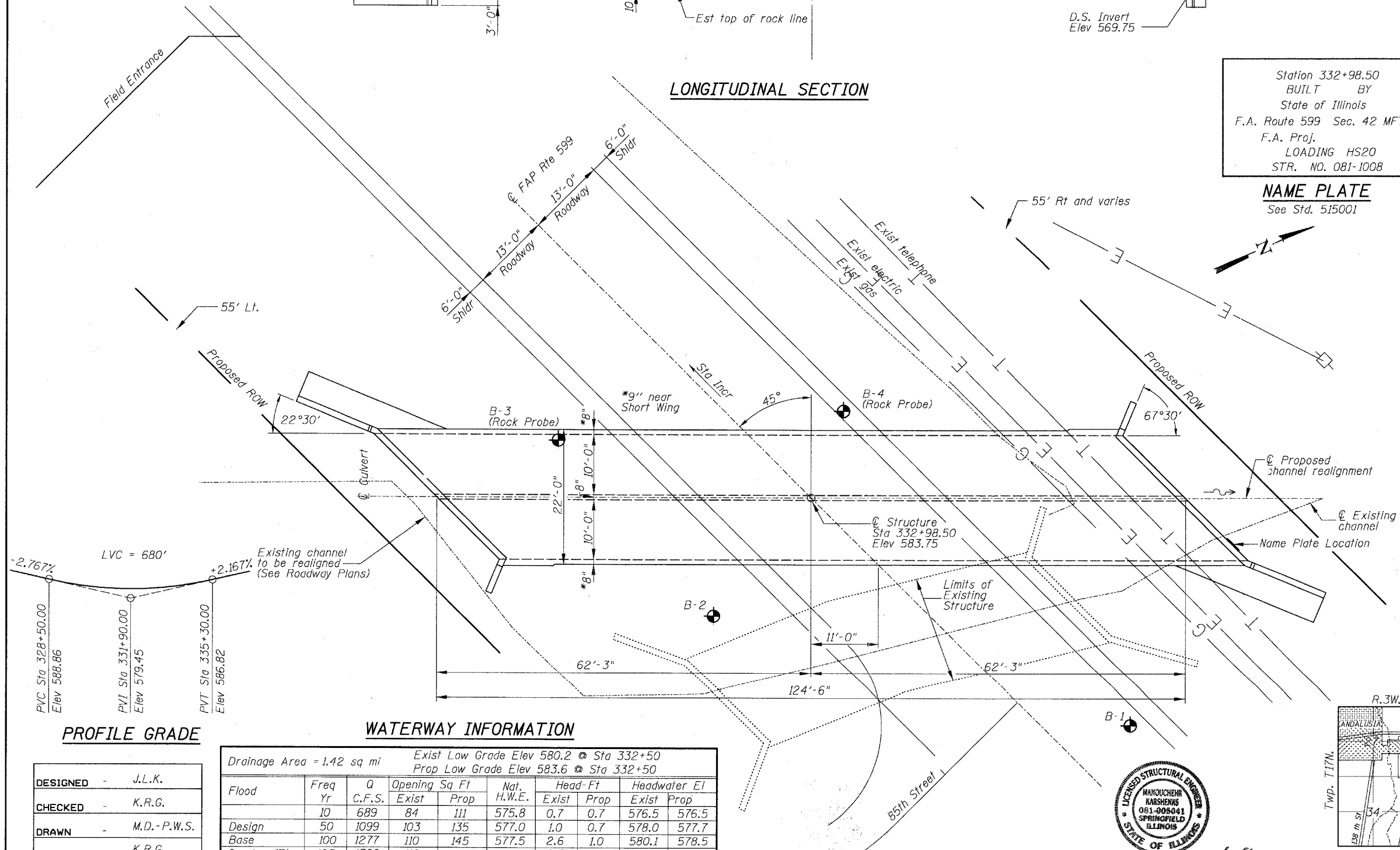
LONGITUDINAL SECTION

Station 332+98.50
BUILT BY
State of Illinois
F.A. Route 599 Sec. 42 MFT-T
F.A. Proj.
LOADING HS20
STR. NO. 081-1008

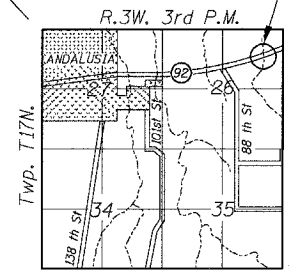
NAME PLATE
See Std. 515001

TOTAL BILL OF MATERIAL

ITEM	UNIT	TOTAL
Removal of Existing Structures No. 2	Each	1
Concrete Box Culverts	Cu.Yd.	271.9
Reinforcement Bars	Pound	51160
Name Plates	Each	1
Rock Excavation for Structures	Cu. Yd.	14.5



PLAN



LOCATION SKETCH

GENERAL PLAN AND ELEVATION
FAP ROUTE 599 - SECTION 42 MFT-T
ROCK ISLAND COUNTY
STATION 332+98.50
STRUCTURE NO. 081-1008

MID-AMERICA ENGINEERING SERVICES
975 South Durkin Dr, Springfield IL 62704

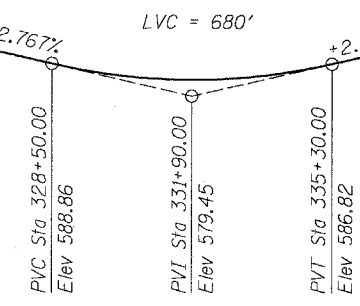
WATERWAY INFORMATION

Drainage Area = 1.42 sq mi

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	689	84	111	575.8	0.7	0.7	576.5	576.5
Base	50	1099	103	135	577.0	1.0	0.7	578.0	577.7
Overtop (E)	100	1277	110	145	577.5	2.6	1.0	580.1	578.5
Max Calc	125	1300	112	145	577.6	2.6		580.2	
	500	1707	124	160	578.4	2.9	2.0	581.3	580.4

Exist Low Grade Elev 580.2 @ Sta 332+50
Prop Low Grade Elev 583.6 @ Sta 332+50

PROFILE GRADE



DESIGNED	J.L.K.
CHECKED	K.R.G.
DRAWN	M.D.-P.W.S.
CHECKED	K.R.G.



m. J. Karshenas
Illinois Structural No. _____ Date _____

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

DESIGN SPECIFICATIONS

2002 AASHTO Standard Specifications
LOADING HS20-44

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

DESIGN STRESSES

FIELD UNITS
f'c = 3,500 psi
fy = 60,000 psi (Reinforcement)

SEISMIC DATA

Seismic Performance Category (SPC) = A
Bedrock Acceleration Coefficient (A) = .033
Site Coefficient (S) = 1.0