ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAS 1197	105-T	Whiteside	59	27
FED. ROAD DIST. NO. 7		ILLINOIS	FED. AID PROJECT-	

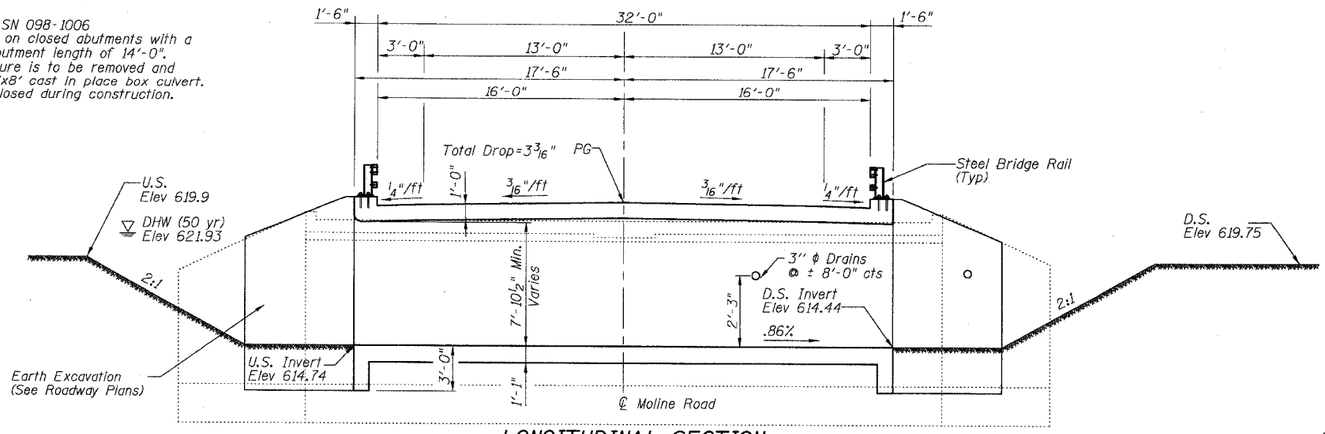
SHEET NO. 1
5 SHEETS
64421

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

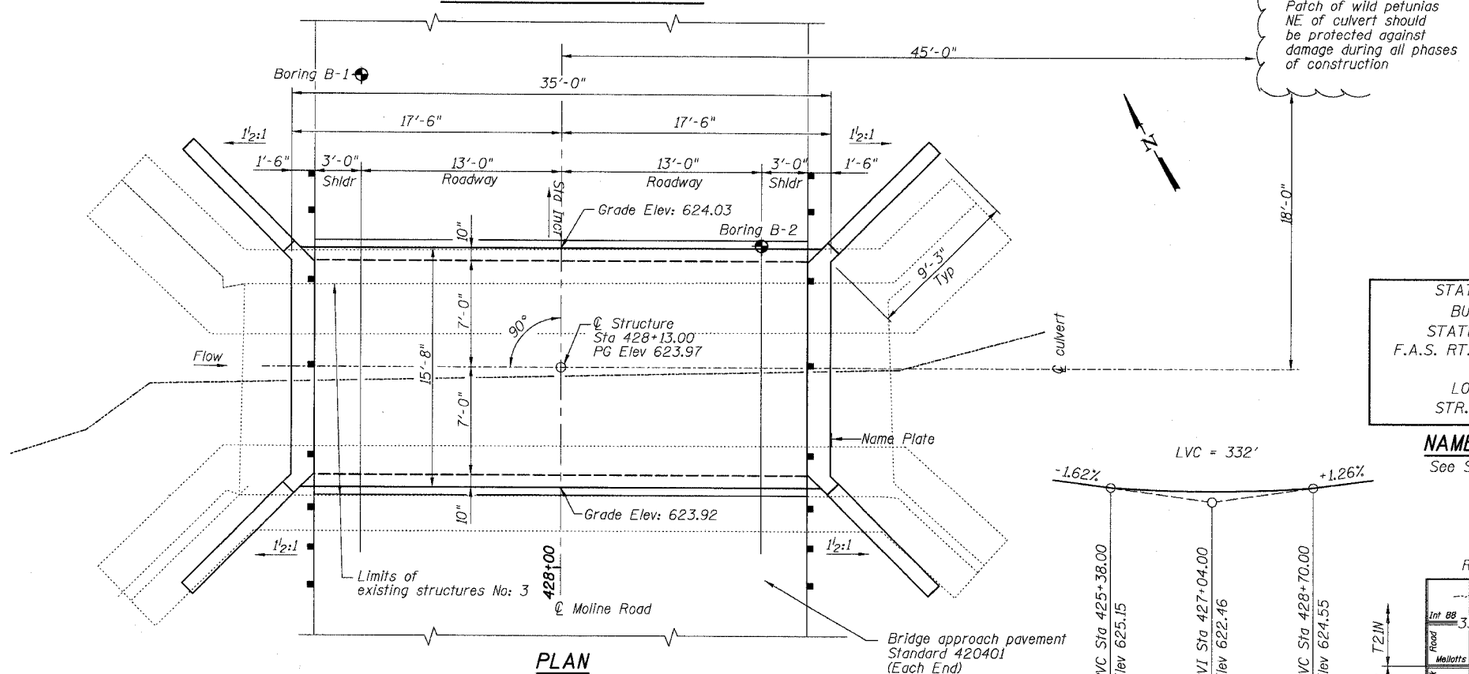
Bench Mark #409:
"□" cut on top of SW wingwall of bridge. Sta 428+05.35, 21.4' Rt
Elev 623.39

Existing Structure SN 098-1006
A single span slab on closed abutments with a back to back of abutment length of 14'-0".
The existing structure is to be removed and replaced with a 14'x8' cast in place box culvert.
The Road will be closed during construction.

No salvage.



LONGITUDINAL SECTION



PLAN

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 alternative is not allowed.
4. For back filling and embankment, See Standard Specifications.
5. The contractor shall make allowance for the deflection of forms, shrinkage and settlement of false work.
6. All construction joints shall be bonded.
7. Bridge approach pavement shall be poured after the removal of false work

TOTAL BILL OF MATERIAL

ITEM	UNIT	TOTAL
Concrete Box Culverts	Cu.Yd.	76.4
Reinforcement Bars, Epoxy Coated	Pound	13820
Name Plates	Each	1
Steel Bridge Rail	Lin. Ft.	32
Bridge Deck Grooving	Sq. Yd.	53
Protective Coat	Sq. Yd.	69
Removal of Existing Structures No. 3	Each	1

STATION 428+13.00
BUILT BY
STATE OF ILLINOIS
F.A.S. RT. 1197 SEC. 105-T

LOADING HS20
STR. NO. 098-1013

NAME PLATE
See Std. 515001

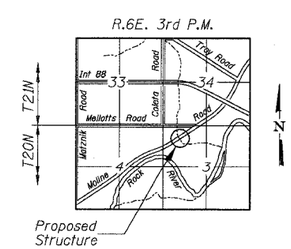
DESIGN SPECIFICATIONS
2002 AASHTO Standard Specifications 17th Edition

LOADING HS20-44
Allow 50# per Sq. Ft. for future Wearing Surface

DESIGN STRESSES

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

PROFILE GRADE



LOCATION SKETCH

WATERWAY INFORMATION

Drainage Area = 2.07 sq mi Low Grade Elev 623.64 @ Sta 427+24.75

Flood	Freq Yr	Q C.F.S.	Opening Sq Ft Exist	Opening Sq Ft Prop	Natural H.W. Elev.	Head-Ft Exist	Head-Ft Prop	Headwater El Exist	Headwater El Prop
Design	50	411	56.2	86.7	621.93	2.00	0.46	623.93	622.39
Base	100	465	57.7	88.5	622.06	2.11	0.55	624.17	622.61
Overtop Exist	30	363	54.6	--	621.80	1.76	--	623.56	--
Overtop Prop	500	590	--	92.5	622.35	--	0.74	--	623.09

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

LICENSED STRUCTURAL ENGINEER
MANOUCHEHR KARSHENAS
081-005041
SPRINGFIELD
ILLINOIS
STATE OF ILLINOIS

M. J. Karshenas Oct. 29, 2004
Illinois Structural No. 081-005041 Date Expires: 11-30-2006

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

GENERAL PLAN AND ELEVATION
FAS ROUTE 1197 - SECTION 105-T
WHITESIDE COUNTY
STATION 428+13.00
STRUCTURE NO. 098-1013

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

...\1-general plan and elevation.d Oct. 29, 2004 13:39:25