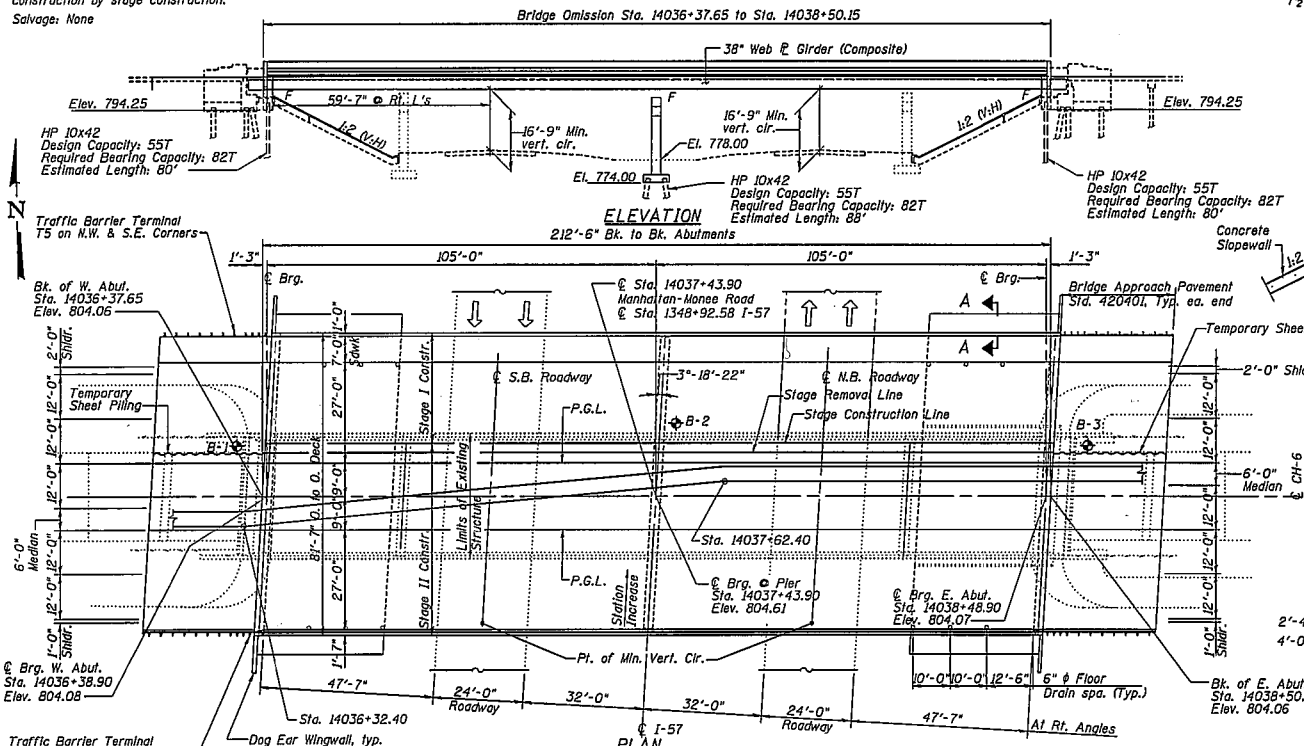
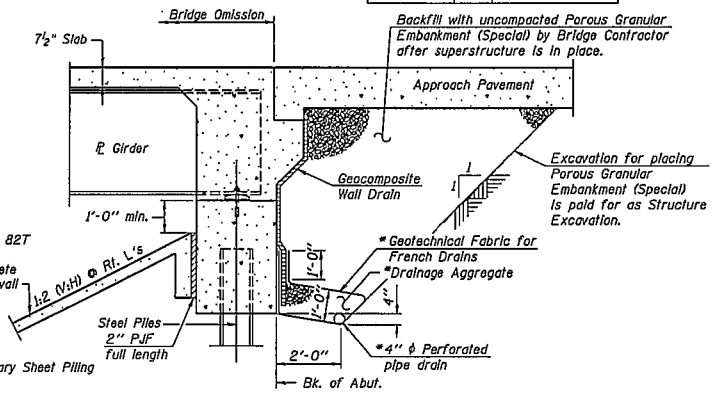
ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAI 57		Will		-
FED. ROAD DIST. NO. 7		ILLINOIS	FED. AID PROJECT-	- SHEETS

Bench Mark: "□". Cut in Bridge Wall Southwest corner of bridge, Monee Road of I-57. Elev. 804.20.

Existing Structure: S.N. 099-0159 was built in 1967 as F.A.I. Rte. 57 (I-57) Manhattan-Monee Road, Sec. 99-1HB-1-1 (85). The 4 span continuous structure consists of a R.C. Deck 224'-4¾" long by 34'-0" wide supported on 33" wide flange beams. Substructure consists of two pile bent abutments with concrete piles and three hammer head piers on spread footings. Traffic shall be maintained during construction by stage construction.

Salvage: None





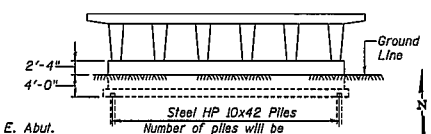
SECTION THRU INTEGRAL ABUTMENT

(Horiz. dim. @ Rt. L's)

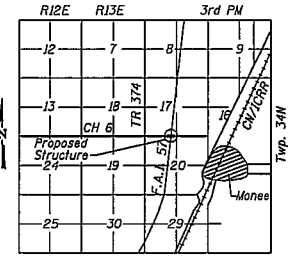
* Included in the cost of Pipe Underdrains for Structures.

Note:

All drainage system components shall extend to 2'-0" from the end of each wingwall except an outlet pipe shall extend until intersecting with the side slopes. The pipes shall drain into concrete headwalls. (See Article 601.05 of the Standard Specifications and Highway Standard 601101).



PIER SKETCH



LOCATION SKETCH

HIGHWAY CLASSIFICATION

	F.A. I-57	Manhattan-Monee Road
Functional Class:	Interstate	Other Principal Arterial
ADT:	41,100 (1997); 72,800 (2010)	8,400 (1999), 21,500 (2010)
DHV:	2,230 (1997), 3,390 (2010)	1,036 (1997), 1,433 (2010)
Design Speed:	70 m.p.h.	45 m.p.h.
Posted Speed:	65 m.p.h.	35 m.p.h.

LOADING HS20-44

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

DESIGN SPECIFICATIONS

2002 AASHTO

DESIGN STRESSES

FIELD UNITS

f'_c = 3,500 psi

f_y = 60,000 psi (reinforcement)

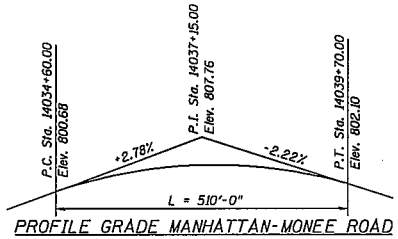
f_y = 50,000 psi (structural steel)

SEISMIC DATA

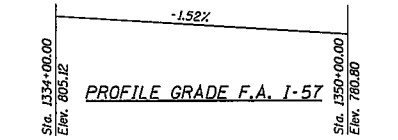
Seismic Performance Category (SPC) = A

Bedrock Acceleration Coefficient (A) = 4%g

Site Coefficient (S) = 1.2



PROFILE GRADE MANHATTAN-MONEE ROAD

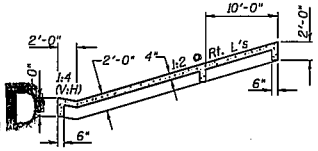


PROFILE GRADE F.A. I-57

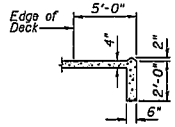
APPROVED

APR 12 2006

AS A BASIS FOR PREPARATION OF DETAILED PLAN



SECTION THRU SLOPEWALL



SECTION A-A

GENERAL PLAN

MANHATTAN-MONEE ROAD (CH-6) OVER I-57

F.A. I-57 — SEC. 99 (1&2) R 3&9-1HB-1-BR2

WILL COUNTY — STA. 14037+43.90

STRUCTURE NUMBER 099-4647

REVISIONS NAME	DATE

NOTE: DIMENSIONAL DATA IS NOT TO BE OBTAINED BY SCALING ANY PORTION OF THIS DRAWING.

DESIGNED BY:	SLO	PROJECT NO:	102238
DRAWN BY:	HEV/SLO	DATE:	01-2006
CHECKED BY:	HH		
APPROVED BY:	HH		
ACTIVITY	SCHEDULE		

DRAWING NUMBER

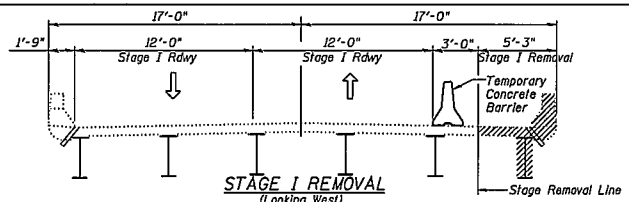
S-1

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAI 57		Will		
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT-		

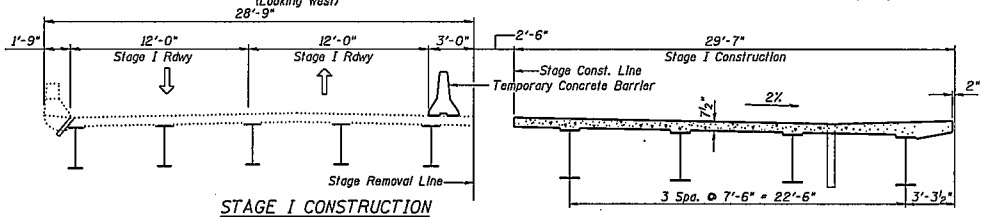
SHEET NO. -
" SHEETS

NOTES

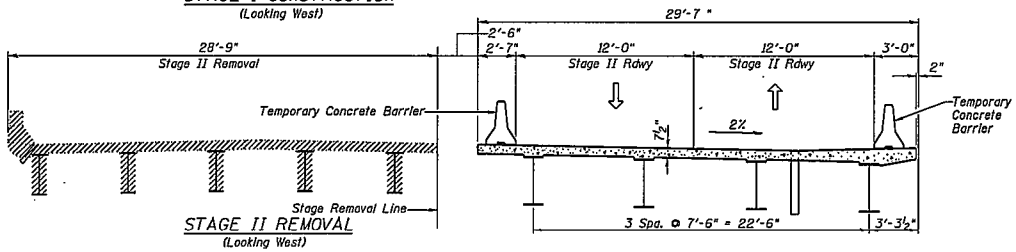
1. Hatched areas indicate removal of existing concrete and existing steel girders.
2. Steel Plate Girders shall be composite in the positive moment areas.
3. No deck drains will be permitted over roadway.
4. Existing East and West Piers to be removed 1' below the ground surface and center pier to be completely removed.



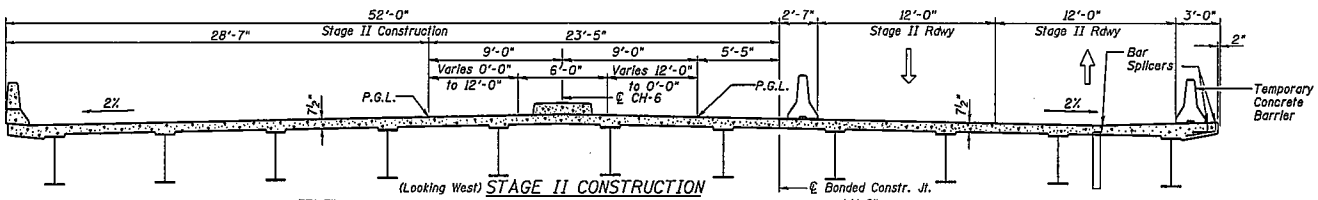
STAGE I REMOVAL
(Looking West)



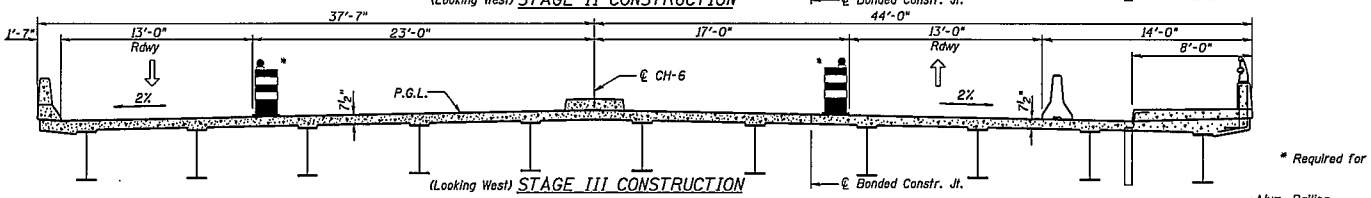
STAGE I CONSTRUCTION
(Looking West)



STAGE II REMOVAL
(Looking West)

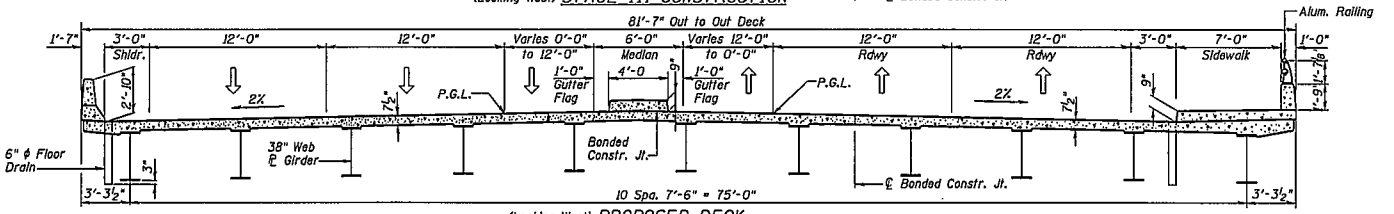


(Looking West) STAGE II CONSTRUCTION



(Looking West) STAGE III CONSTRUCTION

* Required for roadway construction.



(Looking West) PROPOSED DECK

STAGE CONSTRUCTION AND DETAILS

MANHATTAN-MONEE ROAD (CH-6)
OVER I-57

F.A. I-57 — SEC. 99 (1&2) R 3&9-
IHB-1-BR2

WILL COUNTY — STA. 14037+43.90

STRUCTURE NUMBER 099-4647

REVISIONS NAME	DATE

NOTE: DIMENSIONAL DATA IS NOT TO BE OBTAINED BY SCALING ANY PORTION OF THIS DRAWING.

DESIGNED BY: SLD — PROJECT NO: 182238
DRAWN BY: MEV/SLD — DATE: 1-2005
CHECKED BY: MH
APPROVED BY: MH
ACTIVITY — INITIALS

DRAWING NUMBER
S-2