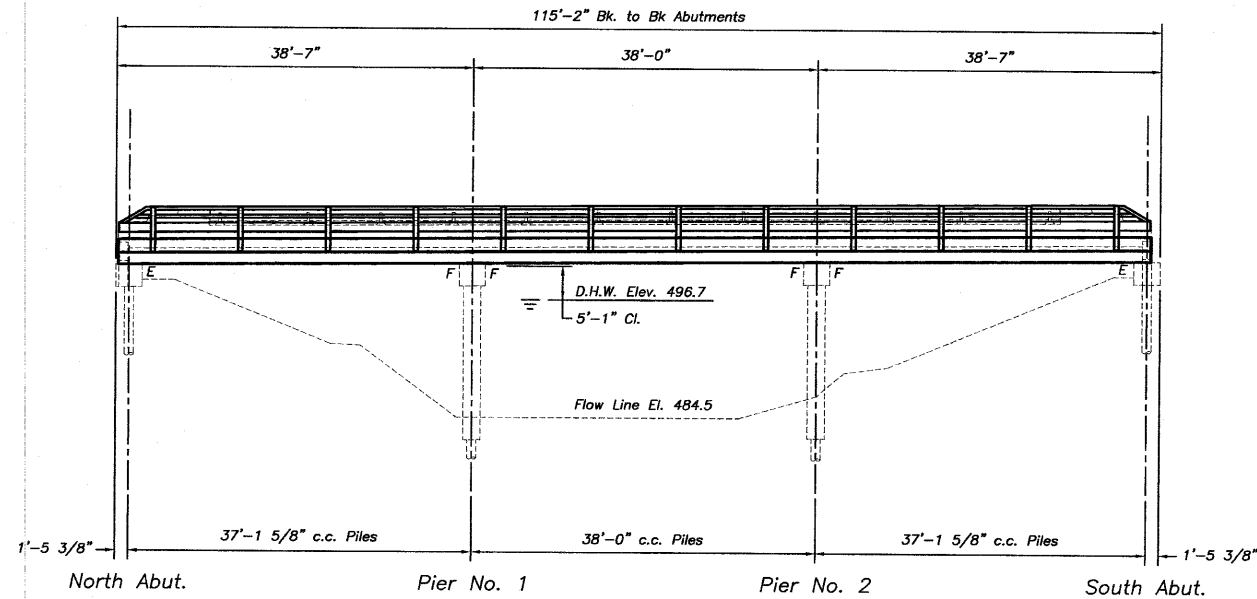
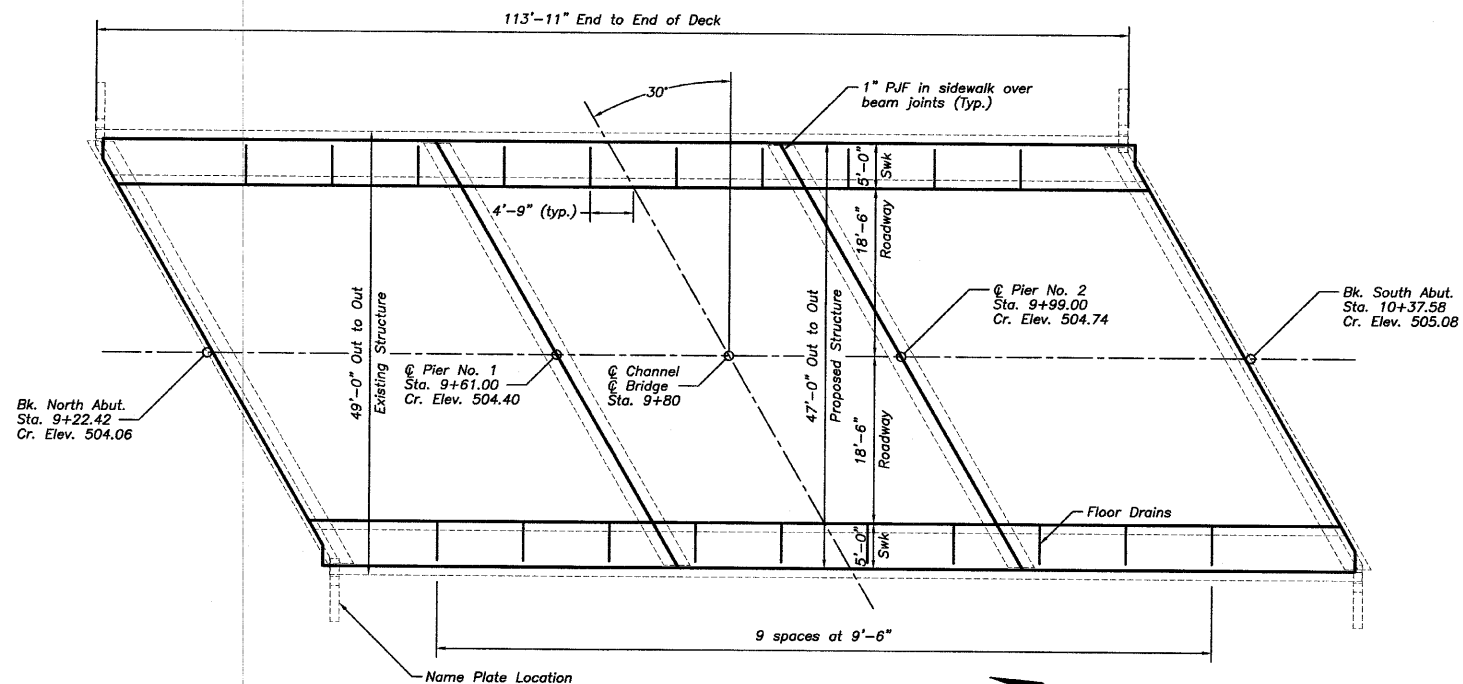


**Benchmark:**  
Railroad spike in power pole south side Ottawa Ave. and directly south of Gebhart Woods rangers office.  
Elev. 507.91

**Existing Structure:**  
Precast concrete bridge slab.  
115'-2" Bk to Bk of abutments.  
Remove and replace deck beams.



**ELEVATION**

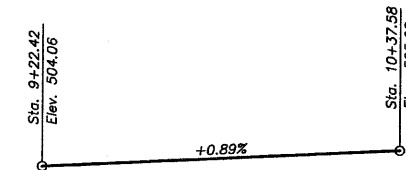


**PLAN**

NETTLE CREEK  
REBUILT BY  
GRUNDY COUNTY  
SEC. 07-00137-00-BR  
F.A.U. RT. 5958 STA. 9+80  
STR. NO. 032-7006 LOADING HS-20

**NAME PLATE**

See Std. 515001



**PROFILE GRADE**

WATERWAY INFORMATION									
Drainage Area= 46.3 sq. mi. Low Grade Elev.= 504.06 Sta. 9+22.42									
Flood	Freq. Yr.	Q C.F.S.	Opening sq. ft.		Nat. H.W.E.	Head - ft.		Headwater el.	
			Exist.	Prop.		Exist.	Prop.	Exist.	Prop.
	10	0	473	473	495.1	0.1	0.1	495.2	495.2
Design	50	2630	583	583	496.7	0.1	0.1	496.9	496.9
Base	100	2950	612	612	497.2	0.1	0.1	497.3	497.3
Overtopping	-	-	-	-	-	-	-	-	-
Max. Calc.	500	3710	673	673	498.0	0.2	0.2	498.2	498.2

**GENERAL NOTES**

- The Standard Spec. for Road and Bridge Const. adopted Jan. 1 2007 shall apply to this project.
- Plan dimensions and details relative to existing structure have been taken from existing plans and are subject to nominal construction variations. It shall be the Contractor's responsibility to verify such dimensions and details in the field and make necessary approved adjustments prior to construction or ordering of materials. Such variations shall not be cause for additional compensation for a change in the scope of the work, however, the Contractor will be paid for the quantity actually furnished at the unit price for the work.
- No work will be allowed in the stream.
- The Contractor is advised that the existing Precast Concrete Slab Beams are in a deteriorated condition with reduced load carrying capacity. It is the Contractor's responsibility to account for the condition of the beams when developing construction procedures for removal and replacement of the superstructure.
- According to existing plans the bearing pads at the abutments are graphited asbestos. These pads shall be removed and disposed of in accordance with the Special Provision for Asbestos Bearing Pad Removal.
- Existing utilities attached to structure shall be relocated by others during construction.

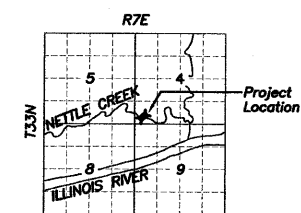
**DESIGN STRESSES**

Deck Beams  
 $f'_c = 6000$  psi  
 $f'_{ci} = 5000$  psi  
 $f'_s = 270000$  psi  
 $f'_{si} = 201960$  psi

Concrete Substructure  
 $f'_c = 3500$  psi  
 $f_y = 60000$  psi

**DESIGN SPECIFICATIONS**

2002 AASHTO & Interims  
 HS20-44 Loading  
 (Allows 50 P.S.F. Future Wearing Surface)



**LOCATION MAP**

**TOTAL BILL OF MATERIAL**

ITEM	UNIT	SUPER	SUB	TOTAL
Removal of Existing Superstructures	Each	1	---	1
Concrete Removal	Cu Yd	---	2.1	2.1
Concrete Removal (Special)	Each	---	4	4
Floor Drains	Each	20	---	20
Concrete Structures	Cu Yd	---	2.2	2.2
Concrete Superstructures	Cu Yd	46	---	46
Protective Coat	Sq Yd	179	---	179
Precast Prestressed Concrete Deck Beams (21" Depth)	Sq Ft	5119	---	5119
Reinforcement Bars, Epoxy Coated	Pound	3450	---	3450
Steel Railing, Type TP-1	Foot	228	---	228
Name Plates	Each	1	---	1
Relocating Name Plates	Each	1	---	1
Waterproofing Membrane System	Sq Yd	468	---	468
Portland Cement Mortar Fairing Course	Foot	1595	---	1595
Asbestos Bearing Pad Removal	Each	52	---	52

FILE NAME = 005-GENPLANDWG	USER NAME = ---	DESIGNED - J.K.C.	REVISED -	FAU 5958 (OTTAWA AVENUE) SECTION 07-00137-00-BR GRUNDY COUNTY	GENERAL PLAN AND ELEVATION	F.A.U. RTE. 5958	SECTION 07-00137-00-BR	COUNTY GRUNDY	TOTAL SHEETS 11	SHEET NO. 5	
PLOT SCALE = 1"=20'	CHECKED - J.K.C.	REVISED -	SCALE: AS NOTED			SHEET NO. 5 OF 11 SHEETS	STA. ----- TO STA. -----	CONTRACT NO. 87463			
PLOT DATE = 04/10	DATE - 04/10	REVISED -	FED. ROAD DIST. NO. - ILLINOIS FED. AID PROJECT								