INDEX OF SHEETS

STATION 800+69.78
BUILT 20__ BY
STATE OF ILLINOIS
F.A.U. RT. 8071 SEC. 02-00382-02-PV
LOADING HS20-44
STR. NO. 084-0512

NAME PLATE

See Std. 515001

N.S. SIDING TRACK				N.S. MAINLINE TRACK			
NORTH RAIL		SOUTH RAIL		NORTH RAIL		SOUTH RAIL	
Station	Elevation	Station	Elevation	Station	Elevation	Station	Elevation
15+94.36	606.25	15+94.35	606.35	15+93.45	606.54	15+93.46	606.68
16+96.83	606.26	16+96.73	606.35	16+96.30	606.52	16+96.15	606.68
18+01.02	606.24	18+00.91	606.33	18+00.13	606.53	18+00.00	606.68
19+01.99	606.24	19+01.98	606.34	19+01.63	606.53	19+01.43	606.67
20+04.77	606.25	20+04.56	606.34	20+04.16	606.53	20+03.68	606.68
21+07.42	606.24	21+07.44	606.34	21+06.97	606.52	21+06.63	606.66

EXISTING TOP OF RAIL ELEVATIONS

(Along N.S. Top of Rail)

Note:
The elevations of the existing top-of-rail profile shall be verified before beginning construction. All discrepencies shall be brought to the attention of the Chief Engineer Bridges and Structures.

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.U. 8071	*	SANGAMON	559	228
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT-		

SHEET NO. 02
27 SHEETS

*02-00382-02-PV
CONTRACT NO. 72541

GENERAL NOTES

Reinforcement bars shall conform to the requirements of AASHTO M 31 or M 322 Grade 60.

The structural steel bearing plates of the Elastomeric Bearing Assembly shall comform to the requirements of AASHTO M270 Grade 50.

The embankment configuration shown shall be the minimum embankment that must be constructed prior to construction of the abutments.

The Contractor shall drive one HP12x53 test pile in a permanent location at each abutment and one HP12x74 test pile in a permanent location at the pier as directed by the Engineer before ordering the remainder of piles.

When the deck is stopped for the day at one or more of the transverse Bonded Construction Joints in the Deck Pouring Sequence as shown, the next pour shall not be made until both of the following requirements are met:

1. At least 72 hours shall have elapsed from the end of the previous pour except,

2. The concrete strength shall have attained a minimum flexural strength of 650 psi or a minimum compressive strength of 3500 psi.

All construction joints shall be bonded.

The piles at the abutments shall be driven through 18" ϕ diameter pre-cored holes extending down to Elev. 601.0 at S. Abut. and 600.0 at N. Abut. or to the present ground elevation whichever occurs first. The annular spacing around the pile shall then be backfilled with dry loose sand. The cost of complying with these requirements shall be included with driving steel piles.

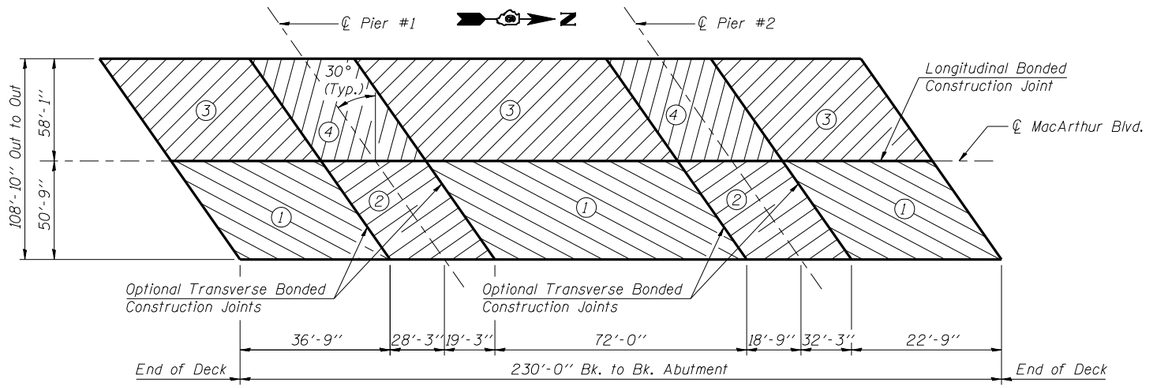
No deck drains will be permitted in the span over tracks or within 10' of crossarm of a railroad pole line.

An unconfined compressive strength of 1.5 tons is required during placement of embankment material.

If the Contractor chooses to alter the temporary sheet piling design requirements shown on the plans, a design submittal including plan details and calculations will be required for review and acceptance by the Engineer.

The Steel H-piles shall be according to AASHTO M270 Grade 50.

The test piles shall be driven to 110 percent of the Nominal Required Bearing indicated in the pile data information.



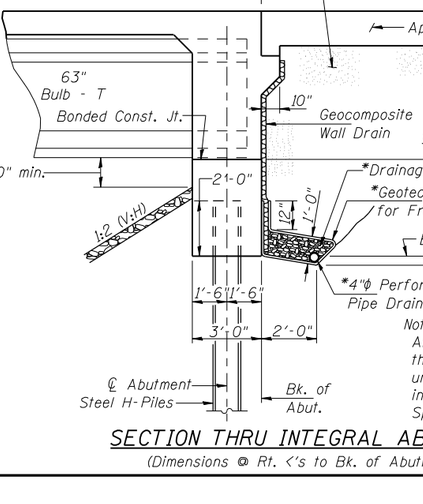
DECK POURING SEQUENCE

The concrete deck segments shall be poured in the numerical order shown above. The deck segments on either side of the bonded construction joint may be poured in one continuous operation without the optional transverse joints shown, subject to the Engineer's approval .

A delay of 21 days shall be provided after completion of deck pour ②.

TOTAL BILL OF MATERIAL

ITEM	UNIT	SUPER	SUB	TOTAL
Porous Granular Embankment, Special	Cu. Yd.	-	778	778
Structure Excavation	Cu. Yd.	-	1256	1256
Concrete Structures	Cu. Yd.	-	1076.8	1076.8
Concrete Superstructure	Cu. Yd.	1073	-	1073
Bridge Deck Grooving	Sq. Yd.	2103	-	2103
Protective Coat	Sq. Yd.	2931	-	2931
Elastomeric Bearing Assembly, Type I	Each	68	-	68
Furnishing and Erecting Precast Prestressed Concrete Bulb-T-Beams 63"	Foot	3859.5	-	3859.5
Furnishing and Erecting Structural Steel	Pounds	3170	-	3170
Reinforcement Bars, Epoxy Coated	Pounds	184330	151010	335340
Bituminous Coated Aggregate Slope Wall 6"	Sq. Yd.	-	1727	1727
Furnishing Steel Piles HP12x53	Foot	-	2322	2322
Furnishing Steel Piles HP12x74	Foot	-	2516	2516
Driving Piles	Foot	-	4838	4838
Test Pile Steel HP12x53	Each	-	2	2
Test Pile Steel HP12x74	Each	-	2	2
Temporary Sheet Piling	Sq. Ft.	-	1380	1380
Name Plates	Each	1	-	1
Bar Splicers	Each	862	-	862
Pipe Underdrains for Structures 4"	Foot	-	350	350
Geocomposite Wall Drain	Sq. Yd.	-	265	265
Concrete Encasement	Cu. Yd.	-	13.3	13.3



SECTION THRU SLOPEWALL

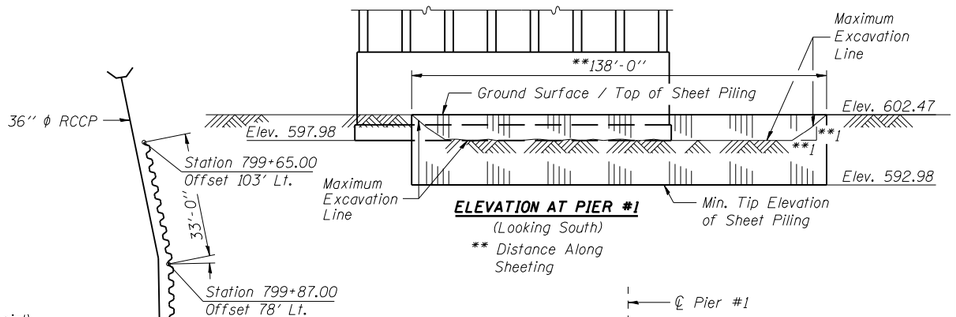
(Dimensions at Rt. ℄'s to Bk. of Abutment)

SECTION A-A

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)

SECTION THRU INTEGRAL ABUTMENT

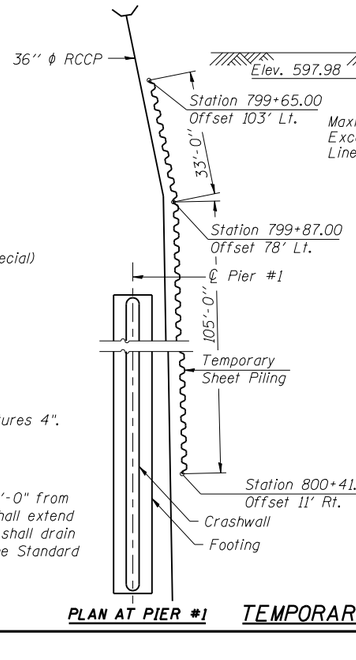
(Dimensions @ Rt. ℄'s to Bk. of Abutment)



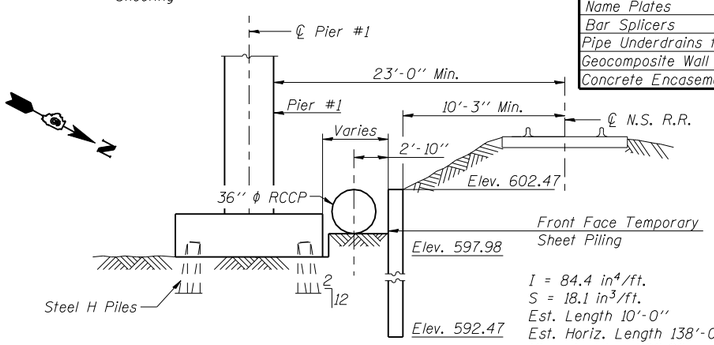
ELEVATION AT PIER #1

(Looking South)

** Distance Along Sheeting



PLAN AT PIER #1



I = 84.4 in⁴/ft.
S = 18.1 in³/ft.
Est. Length 10'-0"
Est. Horiz. Length 138'-0"
Min. Tip Elev. 592.98

SECTION AT PIER #1

Dimensions perpendicular to ℄ N.S. R.R.
(Looking Downstation on N.S. R.R.)

TEMPORARY SHEET PILING DETAILS

LAYOUT	MNM	06/27/03
DRAWN	DAP	01/04/05
REVIEWED	JWW	02/24/05

$FILE$
12/16/2006

Corporate License Number 184-001-084

GENERAL NOTES & BILL OF MATERIAL
MACARTHUR BLVD. OVER N.S. R.R.
SECTION 02-00382-02-PV
SANGAMON COUNTY
STATION 800+69.78
STRUCTURE NUMBER 084-0512

HANSON

JOB* 96S2002B

DATE: 10/30/05