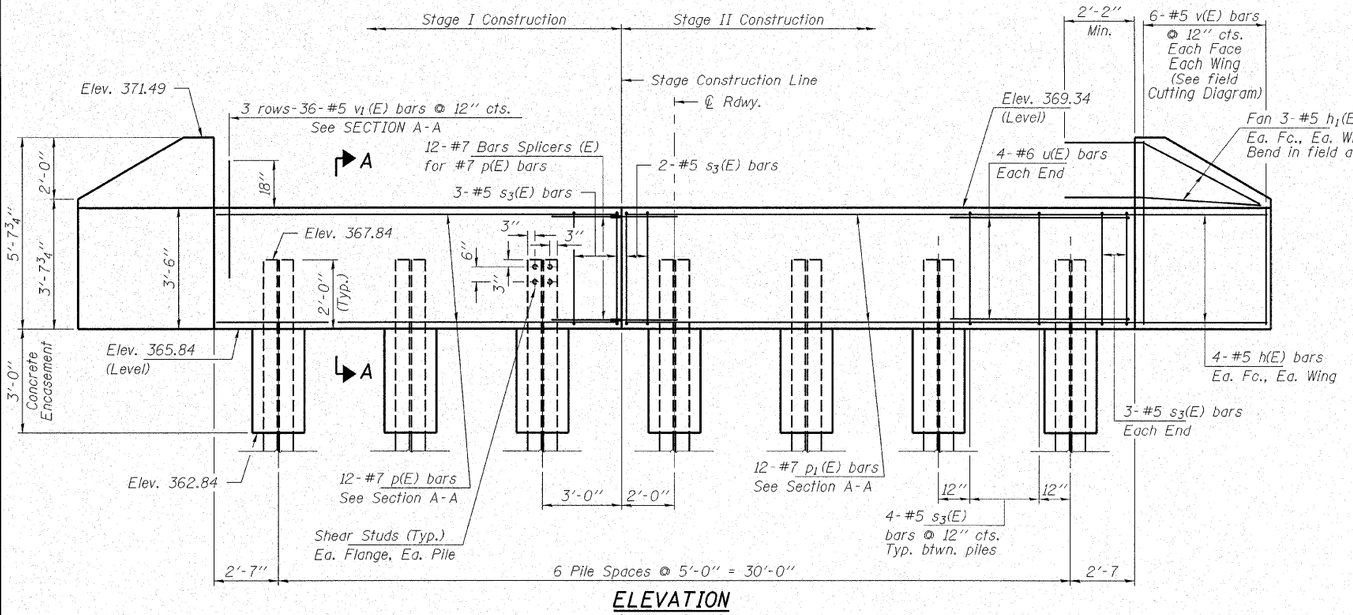
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

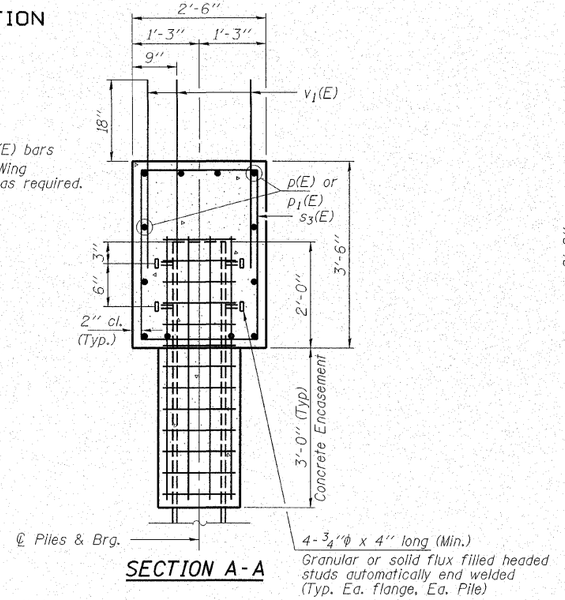
ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.P. 776	(116BR-2)B-1	HAMILTON	140	56
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT-		

SHEET NO. 12
21 SHEETS

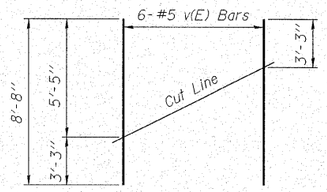
Contract #78006



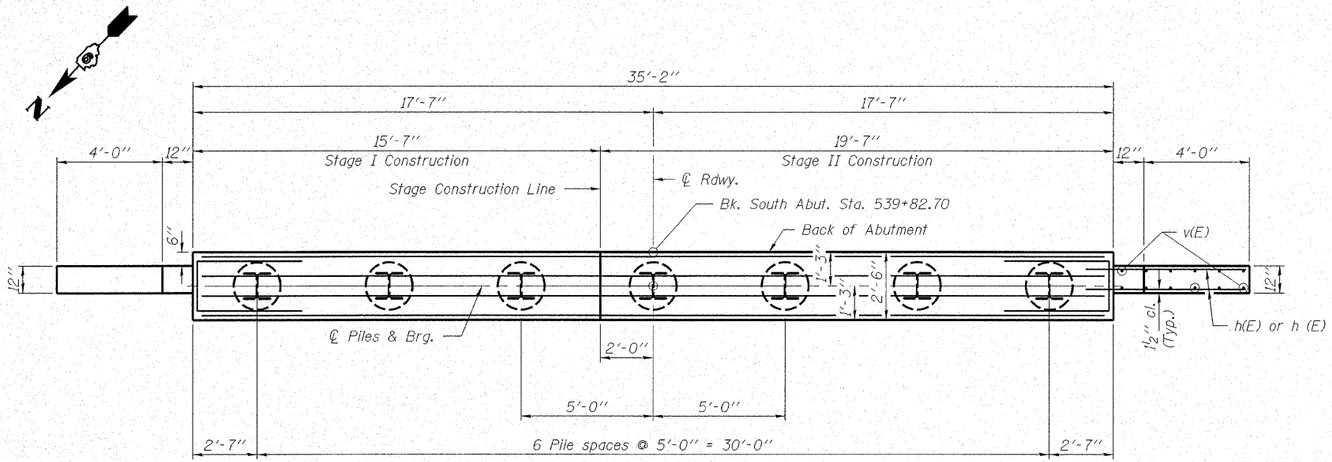
ELEVATION
(Looking South)



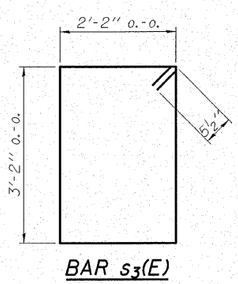
SECTION A-A



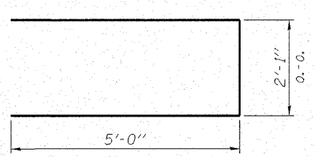
FIELD CUTTING DIAGRAM
Order v(E) bars full length. Cut as shown and use remainder of bars in opposite face.



PLAN



BAR s3(E)



BAR u(E)

BILL OF MATERIAL - S. ABUT.

BAR	NO.	SIZE	LENGTH	SHAPE
h(E)	16	#5	7'-0"	——
h1(E)	12	#5	7'-6"	——
p(E)	12	#7	15'-3"	——
p1(E)	12	#7	19'-3"	——
s3(E)	31	#5	11'-7"	□
u(E)	8	#6	12'-1"	▭
v(E)	12	#5	8'-8"	——
v1(E)	108	#5	4'-0"	——

Structure Excavation	Cu. Yd.	75
Concrete Structures	Cu. Yd.	13.2
Concrete Encasement	Cu. Yd.	2.4
Stud Shear Connectors	Each	56
Reinforcement Bars, Epoxy Coated	Pound	2,140
Bar Splicers	Each	12
Steel Piles HP10x57	Foot	420
Test Pile Steel HP10x57	Each	1

For details of Bar Splicers, see sheet 16 of 21.
For details of Piles and Concrete Encasement, see sheet 17 of 21.

Excavation behind existing abutment walls shall be performed to balance front and back soil pressure before removing the existing superstructure. The Contractor shall sawcut the upper portion of the existing abutment at the stage removal line before Stage I removal to ensure the remaining portion will not be prematurely damaged.

PILE DATA

Type and Size ____ Steel HP10x57
No. Req'd. ____ *7
Nominal Req'd Bearing ____ 453 Kips/Pile
Allowable Resistance Available ____ 151 Kips/Pile
Est. Lengths ____ 70 Ft/Pile

Note: 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.

* Includes one test pile to be driven in permanent location at the South Abutment.

HAMPTON, LENZINI & RENWICK, INC.
CIVIL & STRUCTURAL ENGINEERS
LAND SURVEYORS
3085 STEVENSON DRIVE, SUITE 201
SPRINGFIELD, ILLINOIS 62703
(217) 546-3400
ELGIN • SPRINGFIELD

PROJECT NUMBER: 12-41-0021-1	DATE: 09/25/07
DESIGNED: S.M.S.	CHECKED: S.W.M.	DRAWN: D.B.

SOUTH ABUTMENT

IL RTE. 142 OVER CONTRARY CREEK (NORTH OVERFLOW)

F.A.P. ROUTE 776 - SECTION (116BR-2)B-1

HAMILTON COUNTY

STRUCTURE NO. 033-0051 / STATION 539+14.20

PLOT DATE = 10/26/2007 FILE NAME = 0330051-78006-41021bridge0051.dgn