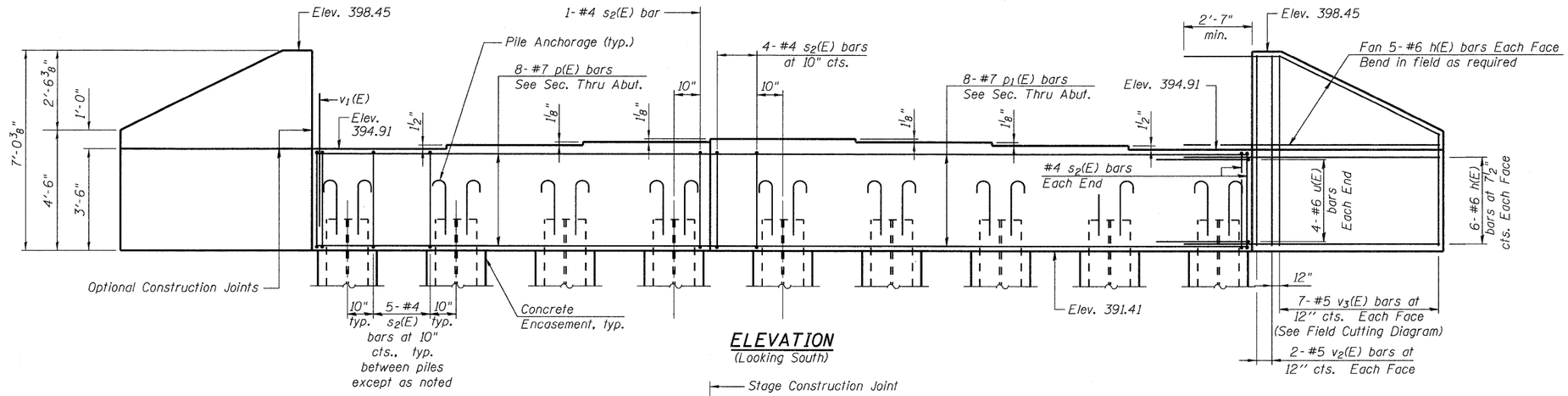
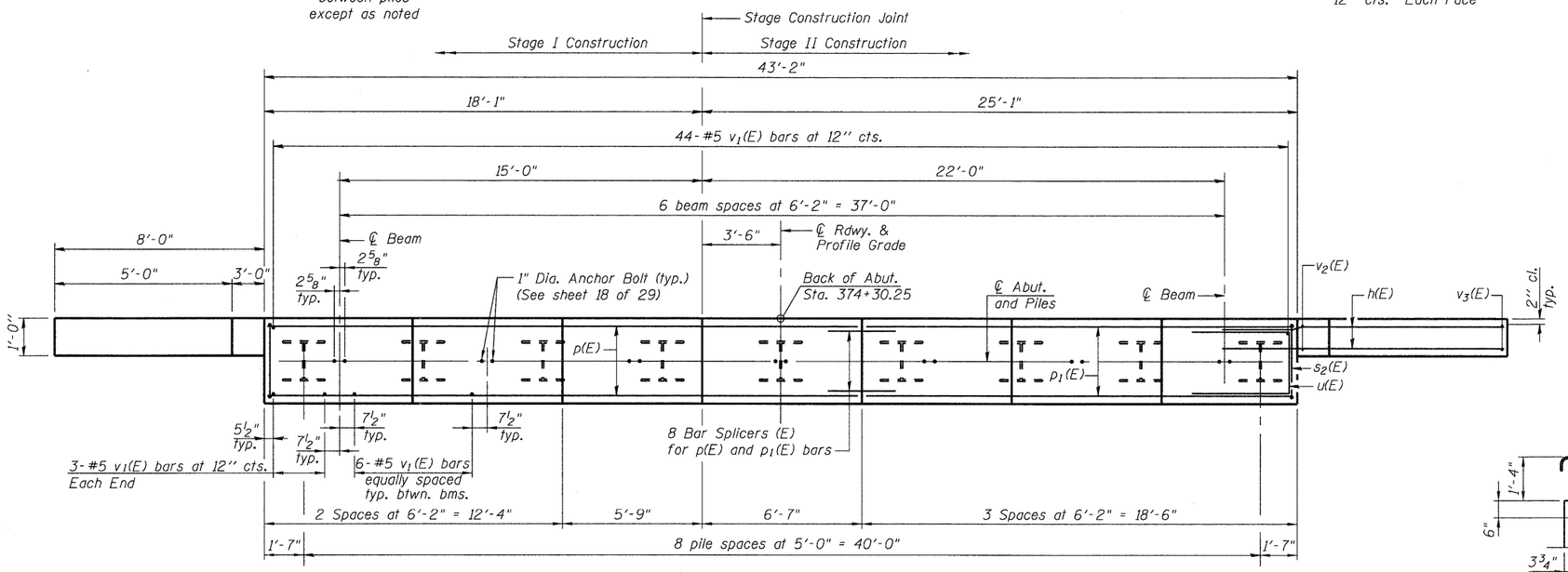
Notes:
Pour steps monolithically with cap.
Space reinforcement in cap to miss anchor bolts.

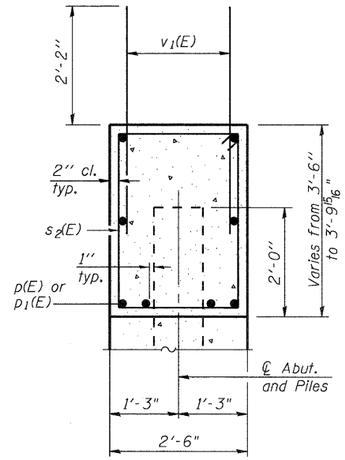
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION



ELEVATION
(Looking South)



PLAN



SEC. THRU ABUT.

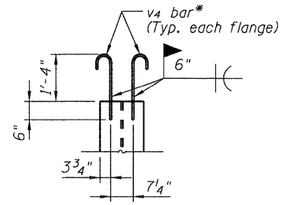
BILL OF MATERIAL

Bar	No.	Size	Length	Shape
h(E)	44	#6	11'-0"	———
p(E)	8	#7	17'-8"	———
p_1(E)	8	#7	24'-9"	———
s_2(E)	44	#4	11'-5"	□
u(E)	8	#6	7'-3"	▭
v_1(E)	86	#5	4'-4"	———
v_2(E)	8	#5	6'-8"	———
v_3(E)	14	#5	10'-10"	———
* v_4	36	#5	2'-5"	⌐
Structure Excavation		Cu. Yd.	180	
Concrete Structures		Cu. Yd.	18.3	
Protective Coat		Sq. Yd.	13	
Concrete Encasement		Cu. Yd.	4.9	
Reinforcement Bars, Epoxy Coated		Pound	2,450	
Furnishing Steel Piles HP14x89		Foot	416	
Driving Piles		Foot	416	
Test Steel Pile HP14x89		Each	1	

For details of Bar Splicers, see sheet 25 of 29.
For details of piles and Concrete Encasement, see sheet 24 of 29.

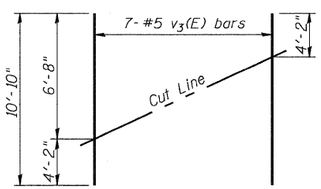
PILE DATA

Type: Steel HP14x89
Nominal Required Bearing: 705 Kips
Factored Resistance Available: 353 Kips
Est. Length: 52 ft
No. Production Piles: 8
No. Test Piles: 1



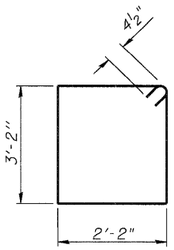
PILE ANCHORAGE

* Cost of v_4 bars is included with Furnishing Steel Piles HP14x89.

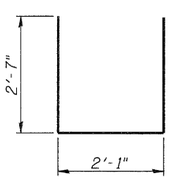


FIELD CUTTING DIAGRAM

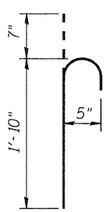
Order v_3(E) full length. Cut as shown and use remainder of bars in opposite face.



BAR s_2(E)



BAR u(E)



BAR v_4*

DESIGNED	RLM
CHECKED	AMS
DRAWN	AEC
CHECKED	RLM

09/25/09

MODJESKI and MASTERS
Consulting Engineers
SINCE 1893

SOUTH ABUTMENT DETAILS
SN 028-0078

SHEET NO. 20	F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
29 SHEETS	9481	12B1-1	FRANKLIN	304	146
	SN 028-0078		CONTRACT NO. 98823		
	FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT		