Note:
Pour steps monolithically with cap.

*** Cut $h_1(E)$ bars in field as required to accommodate skew.

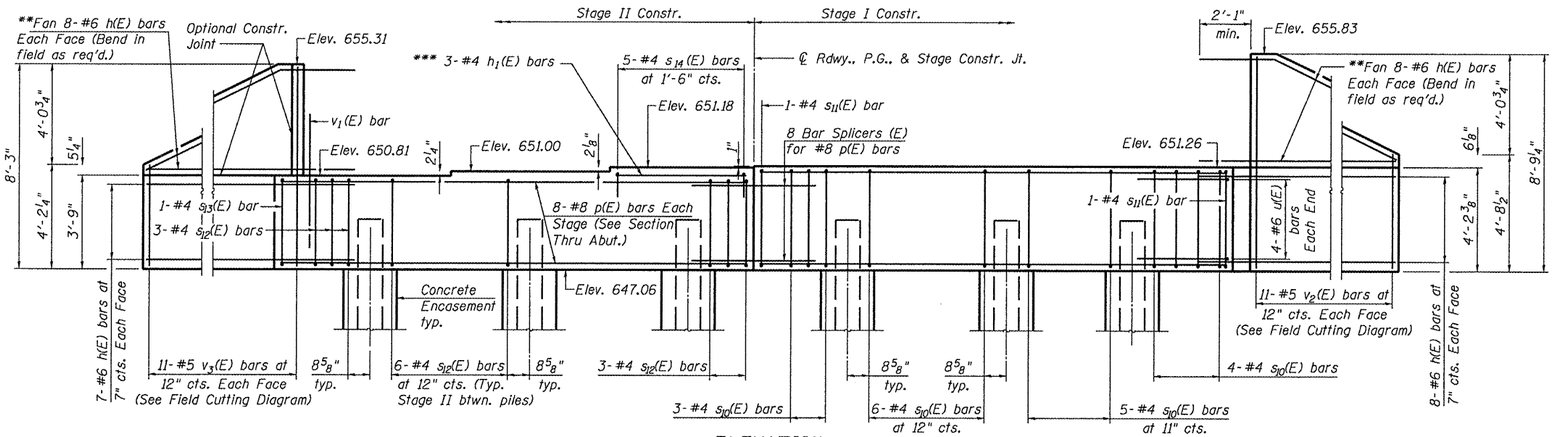
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

** Cut h(E) bars in field as required to clear concrete I-beams.

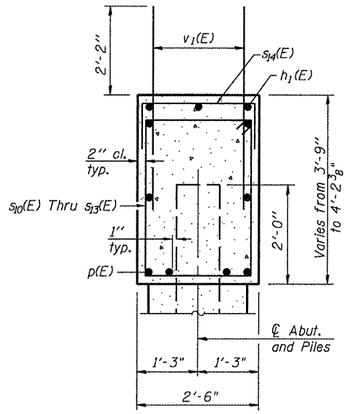
ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.P. 645	*	Marshall	71	34
FED. ROAD DIST. NO. 4	ILLINOIS	FED. AID PROJECT-		

SHEET NO. 16
23 SHEETS

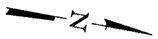
* (105BR)BR
Contract - 68479

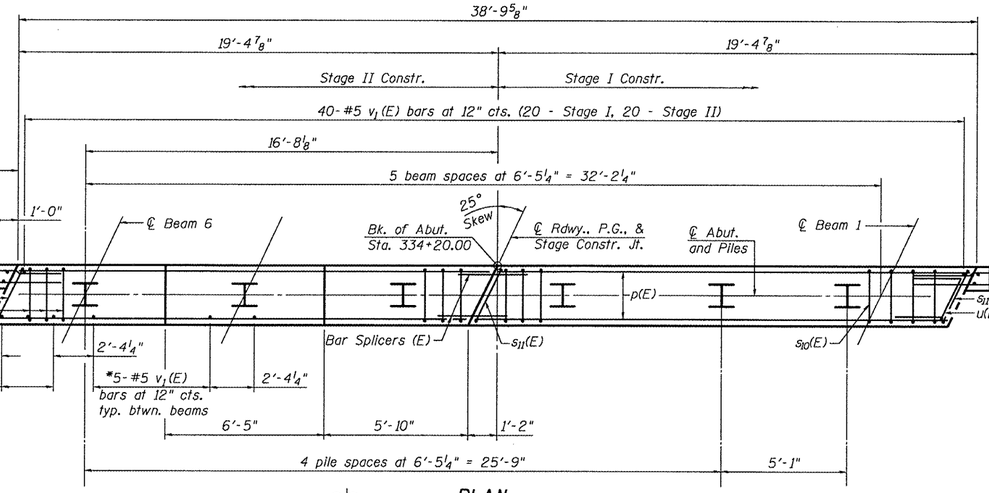


ELEVATION
(Looking West)



SEC. THRU ABUT.





PLAN

* Between beam 3 and 4 provide 3 - v_1(E) bars in Stage I and 2 - v_1(E) bars in Stage II.

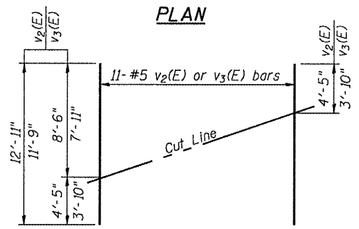
BILL OF MATERIAL

Bar	No.	Size	Length	Shape
h(E)	62	#6	13'-0"	——
h_1(E)	3	#4	6'-8"	——
p(E)	16	#8	19'-1"	——
s_{10}(E)	18	#4	12'-9"	⌐
s_{11}(E)	2	#4	13'-3"	⌐
s_{12}(E)	18	#4	11'-11"	⌐
s_{13}(E)	1	#4	12'-5"	⌐
s_{14}(E)	5	#4	6'-2"	⌐
u(E)	8	#6	9'-5"	⌐
v_1(E)	71	#5	4'-4"	——
v_2(E)	11	#5	12'-11"	——
v_3(E)	11	#5	11'-9"	——
Structure Excavation		Cu. Yd.	121	
Concrete Structures		Cu. Yd.	19.4	
Reinforcement Bars, Epoxy Coated		Pound	3,110	
Furnishing Steel Piles HP 12 x 53		Foot	132	
Driving Piles		Foot	132	
Concrete Encasement		Cu. Yd.	2.1	

For details of Bar Splicers, see sheet 19 of 23.
For details of piles and Concrete Encasement, see sheet 20 of 23.

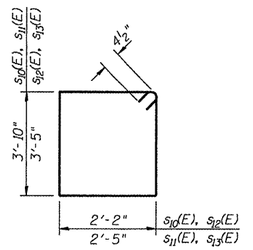
PILE DATA

Type: Steel HP 12 x 53
Nominal Required Bearing: 419k
Factored Resistance Available: 210k
Est. Length: 22 ft.
No. Production Piles: 6

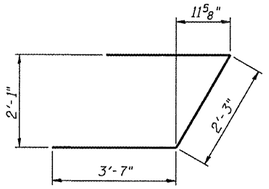


FIELD CUTTING DIAGRAM

Order v_2(E) and v_3(E) full length. Cut as shown and use remainder of bars in opposite face.



BARS s_{10}(E) THRU s_{13}(E)



BAR u(E)

WEST ABUTMENT
IL ROUTE 17 OVER SENACHWINE CREEK
FAP ROUTE 645 - SECTION (105BR)BR
MARSHALL COUNTY
STATION 334+90.00
STRUCTURE NO. 062-0072

DESIGNED	CEH
CHECKED	CWC
DRAWN	DLH
CHECKED	CEH / CWC

WHKS & CO.
ENGINEERS PLANNERS LAND SURVEYORS
MASON CITY, IOWA DUBUQUE, IOWA AMES, IOWA
E. DUBUQUE, ILLINOIS SPRINGFIELD, ILLINOIS ROCHESTER, MINNESOTA

Operator: dheberling
Date: 8/26/2008
Filename: L:\Jobs\IDOT BBS\6956 BBS Various Various\6956.03\CADD_Struc\062-0072 4-18-08.dgn