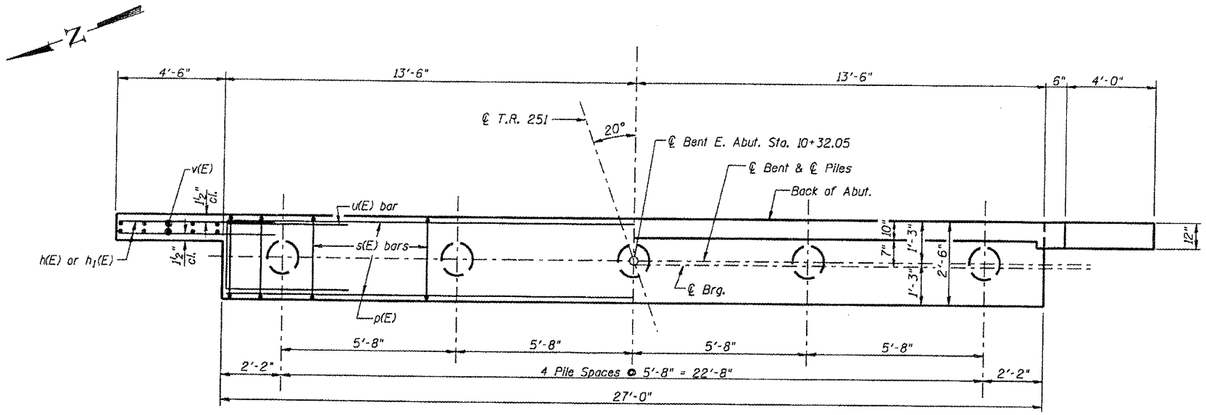
ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
T.R. 251	08-04126-00-BR	KNOX	9	10
FED. ROAD DIST. NO.		ILLINOIS	PROJECT	

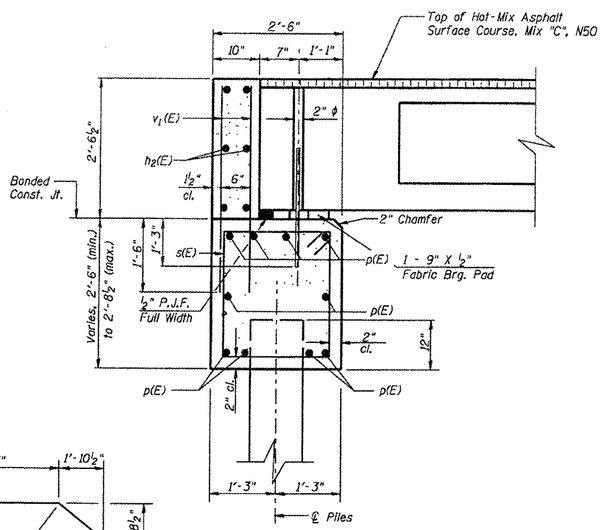
Contract 89544



PLAN

NOTES

1. The Backwall and the portion of the Wingwalls above the bonded construction joint shall be cast against the in-place beam.
2. 1" dia. x 2'-6" dowel rods in 1½" dia. holes drilled in cap (4 each beam). Dowel rods to be grouted after beams are in place and allowed to cure (min. 24 hrs.) prior to grouting the shear keys. The grout shall be an approved non-shrink grout.
3. Reinforcement bars designated (E) shall be Epoxy coated.
4. Reinforcement bars shall conform to the requirements of A.S.T.M A706 Grade 60. See Special Provisions.
5. Space reinforcement in cap to miss dowel rods.



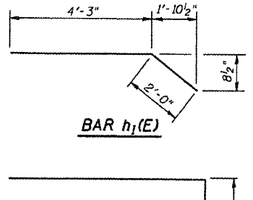
SECTION THRU ABUT.
(At Rt. Angles)

PILE DATA

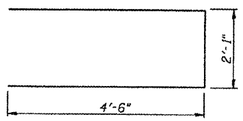
Type & Size: Metal Shell - 12" dia. x 0.250 in. walls
Nominal Required Bearing: 274 Kips
Factored Resistance Available: 137 Kips
Estimated Length: 46'-0"
No. Required: 5

DESIGN STRESSES

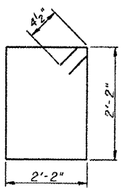
f'_c = 3,500 psi
f_y = 60,000 psi



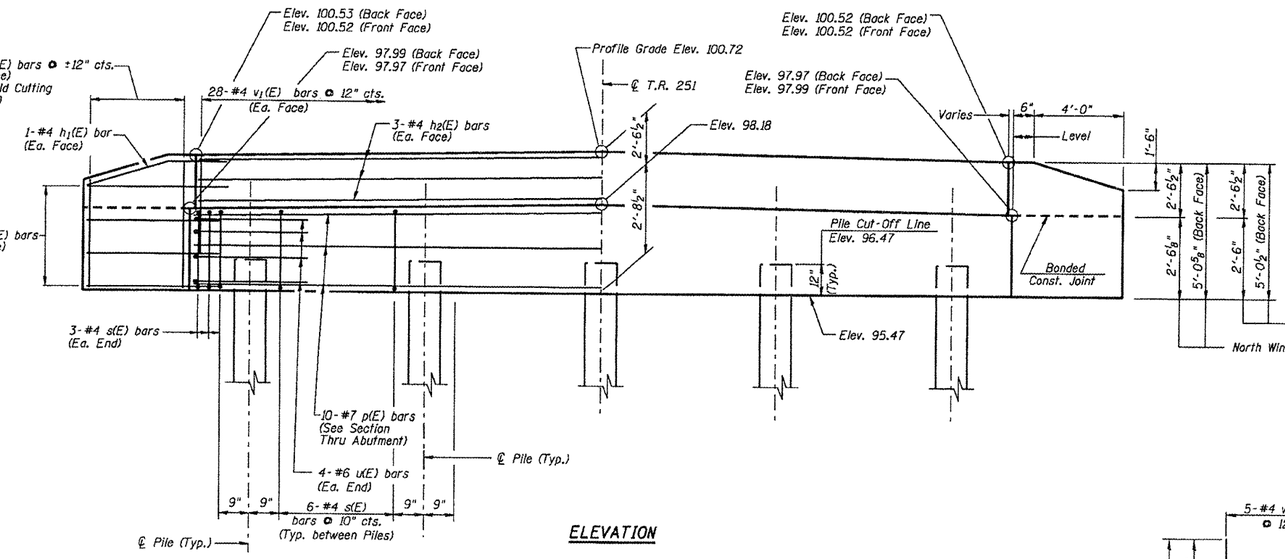
BAR $h_1(E)$



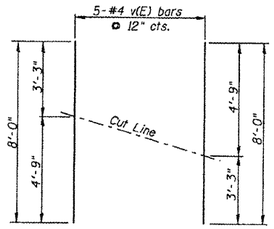
BAR u(E)



BAR s(E)



ELEVATION



FIELD CUTTING DIAGRAM

Order bars full length. Cut to fit as shown and use remainder of bars in other face.

BILL OF MATERIAL

Bar	No.	Size	Length	Shape
h(E)	16	#4	6'-0"	
$h_1(E)$	4	#4	6'-3"	
$h_2(E)$	6	#4	26'-8"	
p(E)	10	#7	26'-8"	
s(E)	30	#4	9'-5"	
u(E)	8	#6	11'-1"	
v(E)	10	#4	8'-0"	
$v_1(E)$	56	#4	3'-11"	
Concrete Structures			Cu. Yd.	10.1
Reinforcement Bars, Epoxy Coated			Pound	1260
Furnishing Metal Shell Piles 12" x 0.250"			Foot	230
Driving Piles			Foot	230

EAST ABUTMENT

Date			
Revisions	Designed	MJP	T.R. 251 OVER SWAB RUN CREEK SECTION 08-04126-00-BR KNOX COUNTY STA. 10+00.00 PROP. STR. NO. 048-3396
	Drawn	BKN	
	Checked	KWB	
	Approved	KWB	

Sheet No. 6 of 7

Prepared by: URS 345 East Ash Avenue Decatur, Il. 62526

URS Job No. 36432412

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