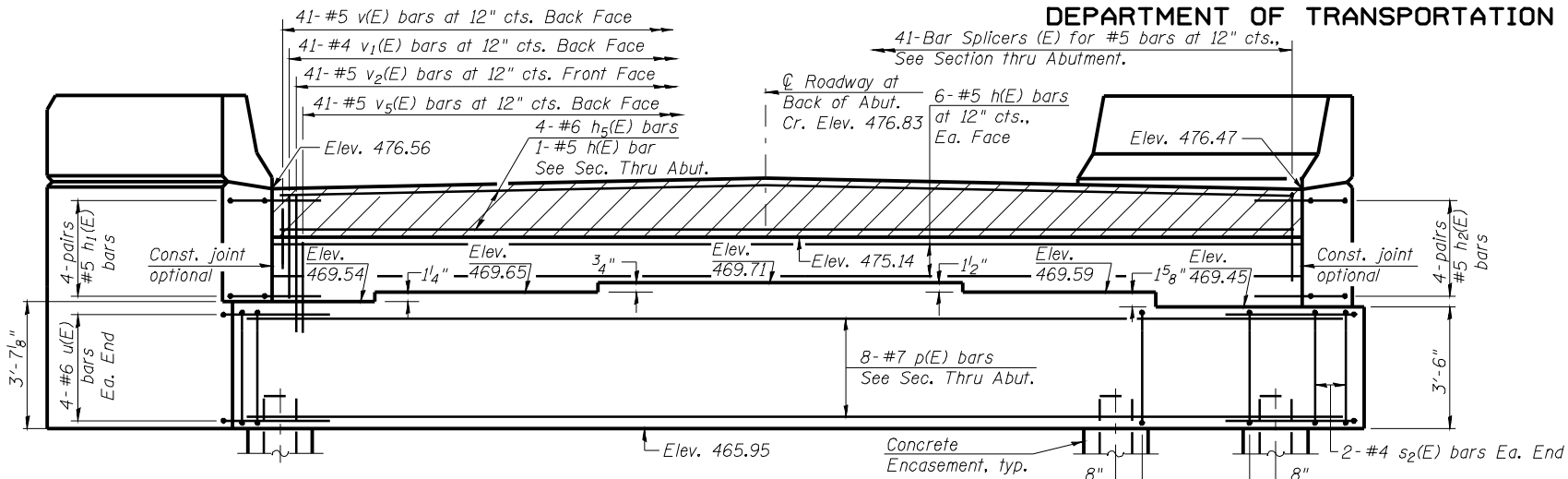
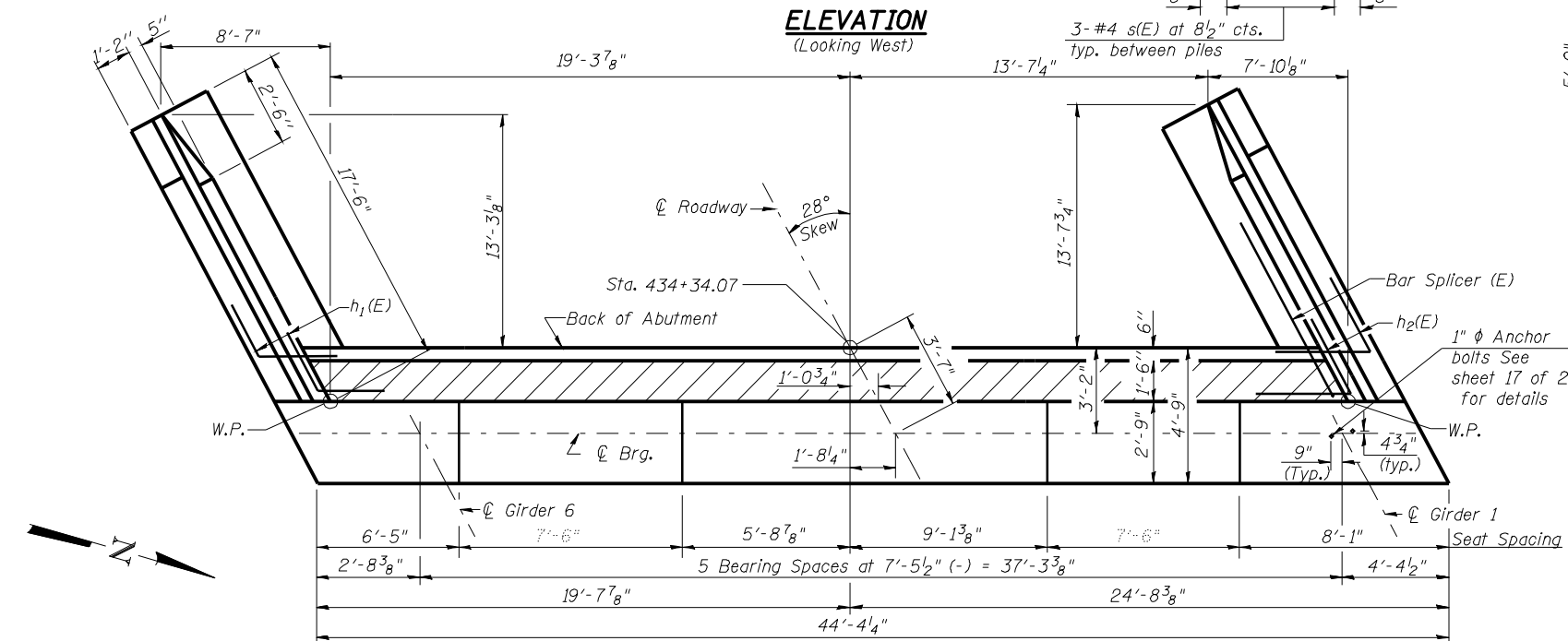


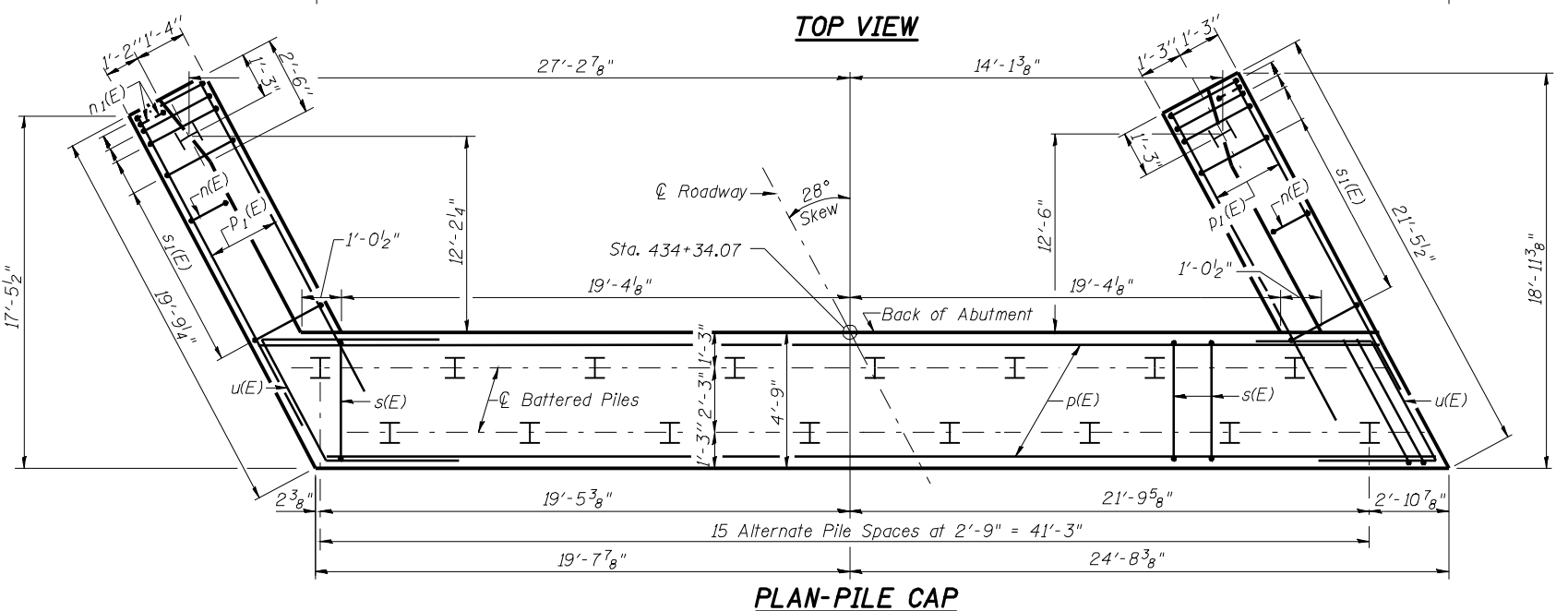
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION



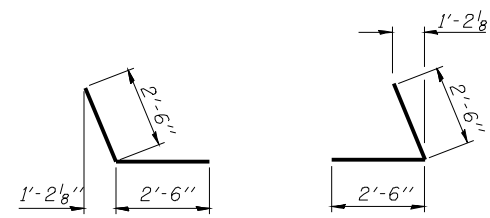
ELEVATION
(Looking West)



TOP VIEW

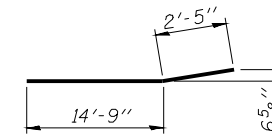


PLAN-PILE CAP

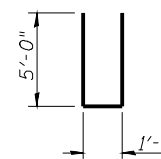


BAR h₁(E)

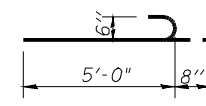
BAR h₂(E)



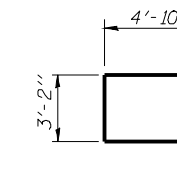
BAR h₄(E)



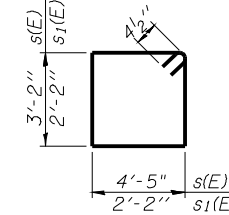
BAR n(E)



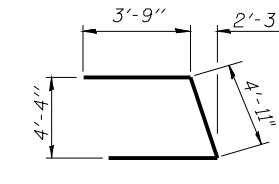
BAR n₁(E)



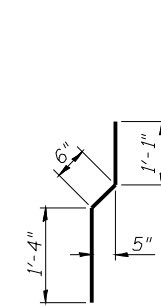
BAR s₂(E)



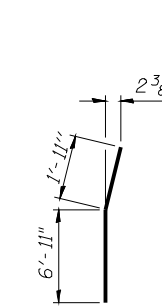
BARS s(E) & s₁(E)



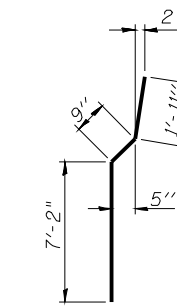
BAR u(E)



BAR v₁(E)



BAR v₃(E)



BAR v₄(E)

PILE DATA

Type: Steel HP 12x53 with pile shoes
Nominal Required Bearing: 418 kips
Allowable Resistance Available: 116 kips
Est. Length: 63 ft.
No. Production Piles: 17
No. Test Piles: 1

**WEST ABUTMENT
BILL OF MATERIAL**

Bar	No.	Size	Length	Shape
h(E)	13	#5	40'-5"	—
h ₁ (E)	8	#5	5'-0"	—
h ₂ (E)	8	#5	5'-0"	—
h ₃ (E)	28	#4	18'-0"	—
h ₄ (E)	20	#4	17'-2"	—
h ₅ (E)	4	#6	40'-5"	—
n(E)	30	#6	11'-4"	—
n ₁ (E)	12	#6	5'-8"	—
p(E)	8	#7	44'-0"	—
p ₁ (E)	12	#7	19'-0"	—
s(E)	45	#4	15'-11"	—
s ₁ (E)	38	#4	9'-5"	—
s ₂ (E)	4	#4	12'-10"	—
u(E)	8	#6	12'-5"	—
v(E)	41	#5	7'-9"	—
v ₁ (E)	41	#4	2'-11"	—
v ₂ (E)	41	#5	9'-0"	—
v ₃ (E)	6	#6	8'-10"	—
v ₄ (E)	30	#6	9'-10"	—
v ₅ (E)	41	#5	3'-4"	—
v ₆ (E)	38	#6	9'-2"	—
Structure Excavation		Cu. Yd.	280	
Concrete Structures		Cu. Yd.	66.0	
Reinforcement Bars, Epoxy Coated		Pound	6130	
Furnishing Steel Piles HP 12x53		Foot	1071	
Driving Piles		Foot	1071	
Test Pile Steel HP 12x53		Each	1	
Pile shoes		Each	18	
Concrete Encasement		Cu. Yd.	6.3	
Concrete Sealer		Sq. Ft.	392	

For details of Bar Splicers, see sheet 24 of 29.
For details of piles and Concrete Encasement, see sheet 25 of 29.
For drainage details see Sheet 2 of 29.
Work this sheet with sheet 19 of 29.
Piles shall be driven through 18" diameter precored holes extending to Elev. 448.50 according to Article 512.09(c) of the Standard Specifications. Cost included in driving piles.

**WEST ABUTMENT
STRUCTURE NO. 005-0500**

LE LIN ENGINEERING, L.T.D.
Consulting Engineers
Chatham, Illinois

Designed By: ADB
Checked By: MTH
Date: 06/2009

Drawn By: AJP
File: 005-0500.DWG

SHEET NO. 18
29 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
317	(10B-1)R	BROWN/SCHUYLER	196	137
CONTRACT NO. 72432				
ILLINOIS FED. AID PROJECT				