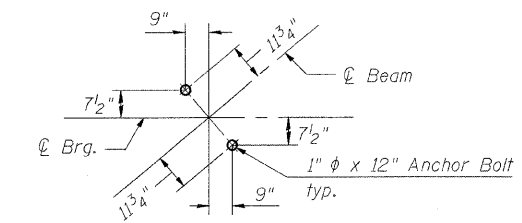
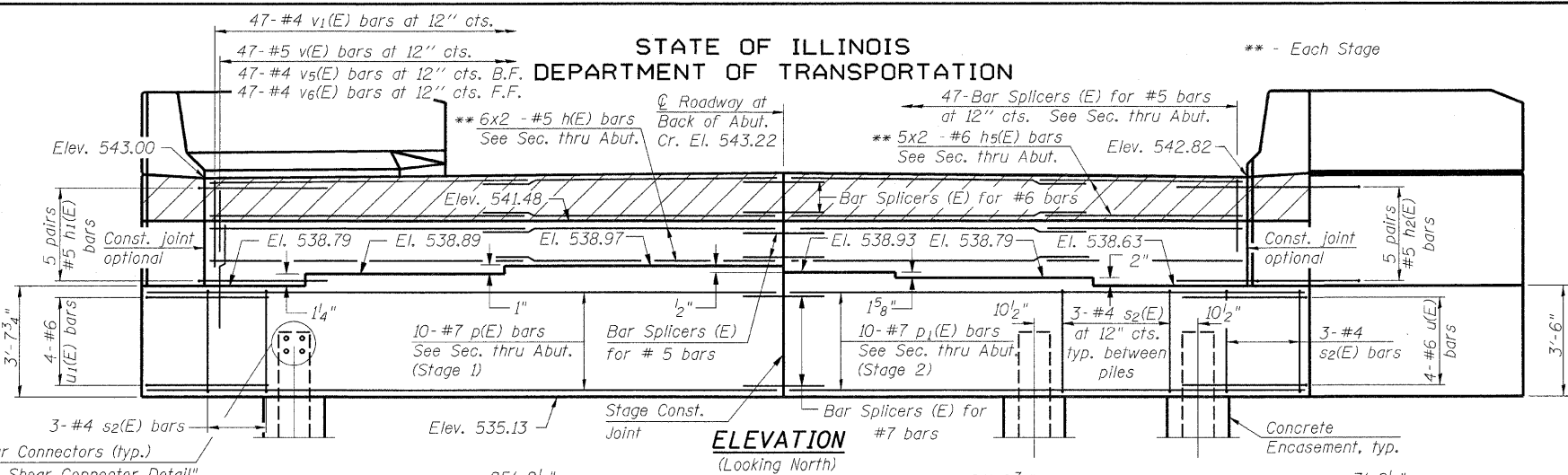


STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION



ANCHOR BOLT LAYOUT DETAIL
(Typical all bearings)

**ABUTMENT
BILL OF MATERIAL**

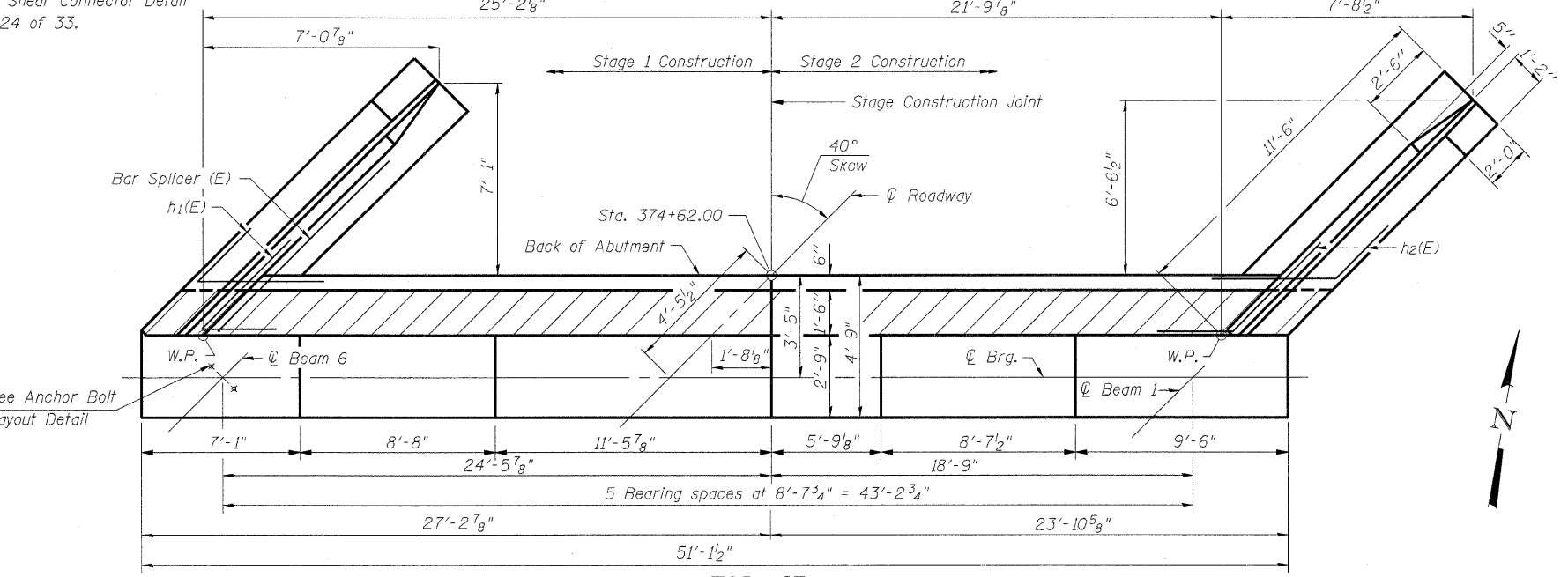
Bar No.	Size	Length	Shape
h(E)	24 #5	13'-11"	—
h1(E)	10 #5	7'-7"	└
h2(E)	10 #5	6'-6"	└
h3(E)	11 #4	11'-3"	—
h4(E)	7 #4	11'-3"	—
h5(E)	20 #6	14'-3"	—
n(E)	18 #6	11'-0"	└
n1(E)	12 #6	5'-6"	└
p(E)	10 #7	26'-9"	—
p1(E)	10 #7	23'-6"	—
p2(E)	12 #7	12'-11"	—
s2(E)	39 #4	15'-11"	└
s3(E)	24 #4	9'-5"	└
u(E)	4 #6	10'-4"	└
u1(E)	4 #6	8'-6"	└
v(E)	47 #5	2'-6"	—
v1(E)	47 #4	3'-0"	—
v2(E)	24 #6	7'-0"	—
v3(E)	6 #6	6'-9"	—
v4(E)	18 #6	7'-0"	—
v5(E)	47 #4	4'-0"	—
v6(E)	47 #4	5'-3"	—
Structure Excavation	Cu. Yd.	125.0	
Concrete Structures	Cu. Yd.	54.0	
Reinforcement Bars, Epoxy Coated	Pound	4,480	
Furnishing Steel Piles, HP 10x42	Foot	812	
Driving Piles	Foot	812	
Test Pile, Steel HP 10x42	Each	1	
Concrete Encasement	Cu. Yd.	4.6	
Concrete Sealer	Sq. Ft.	550	
Bar Splicers	Each	68	
Stud Shear Connectors	Each	120	

For details of Bar Splicers, see sheet 30 of 33.
For details of piles and Concrete Encasement, see sheet 29 of 33.
Concrete Sealer shall be applied to the face of the backwall, the bearing seats and the front face of abutment.

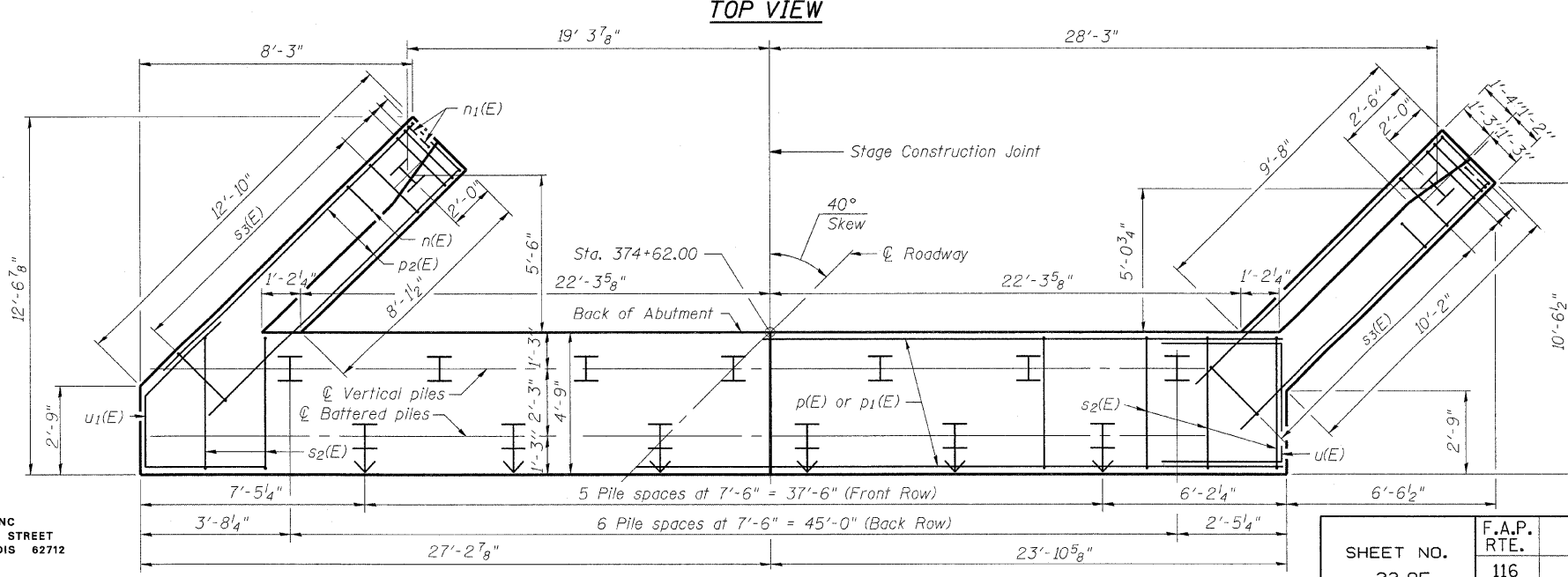
MIN. BAR LAP

- #5 3'-0"
- #6 3'-7"

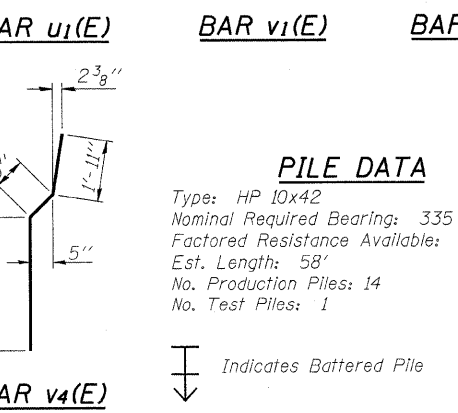
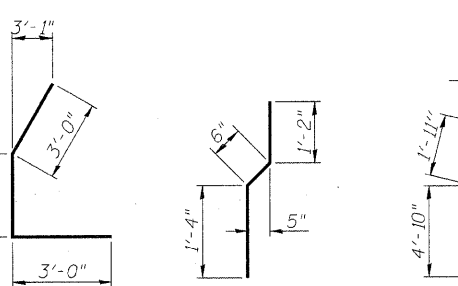
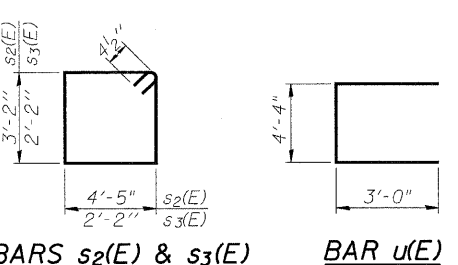
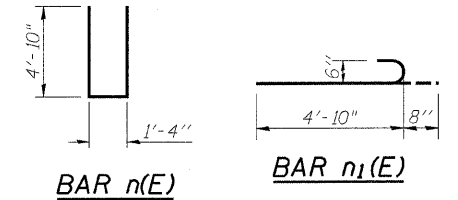
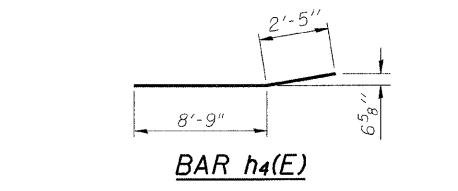
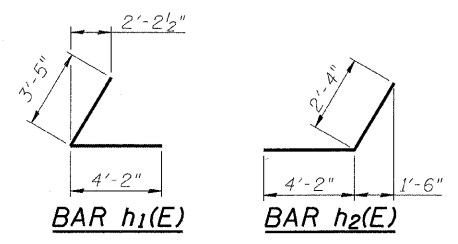
**NORTH ABUTMENT
S.N. 018-0064**



TOP VIEW



FOOTING PLAN



PILE DATA

Type: HP 10x42
Nominal Required Bearing: 335 kips
Factored Resistance Available: 139 kips
Est. Length: 58'
No. Production Piles: 14
No. Test Piles: 1

Indicates Battered Pile

DESIGNED	SCD
CHECKED	DRB
DRAWN	THW
CHECKED	SCD

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SHEET NO. 23 OF 33 SHEETS	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	116	(112BR)B	CUMBERLAND	72	54
CONTRACT NO. 74236			FED. ROAD DIST. NO. _ ILLINOIS FED. AID PROJECT		