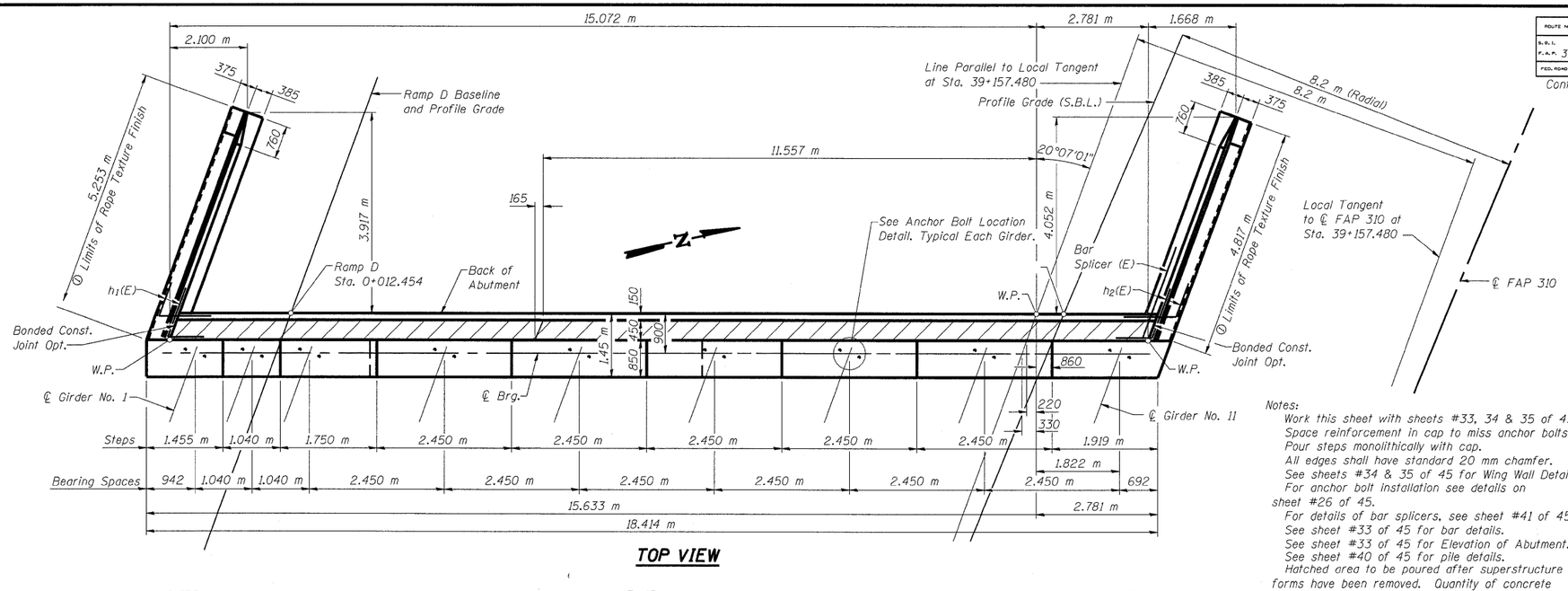
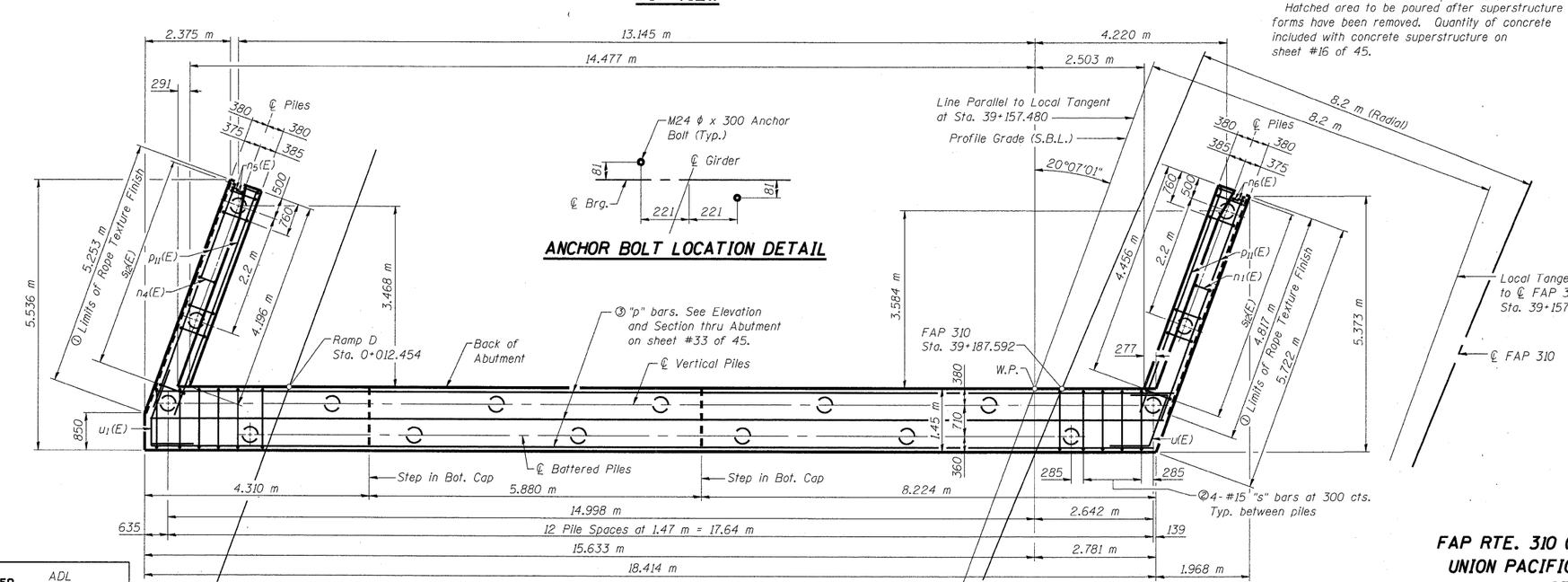
ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
S.B.L. F.A.P. 310	*	MADISON	149	99
FED. ROAD DIST. NO. 7		ILLINOIS	FED. AID PROJECT-	

SHEET NO. 32
45 SHEETS

Contract #76634 * 60-15VB-1 & 2



TOP VIEW



ANCHOR BOLT LOCATION DETAIL

PLAN PILE-CAP

Notes:

Work this sheet with sheets #33, 34 & 35 of 45.
Space reinforcement in cap to miss anchor bolts.
Pour steps monolithically with cap.
All edges shall have standard 20 mm chamfer.
See sheets #34 & 35 of 45 for Wing Wall Details.
For anchor bolt installation see details on sheet #26 of 45.
For details of bar splicers, see sheet #41 of 45.
See sheet #33 of 45 for bar details.
See sheet #33 of 45 for Elevation of Abutment.
See sheet #40 of 45 for pile details.
Hatched area to be poured after superstructure forms have been removed. Quantity of concrete included with concrete superstructure on sheet #16 of 45.

① Patterned Rope Texture Concrete (See sheet #4 of 45 for details).
② "s" bars include s(E), s9(E) and s13(E) thru s19(E) See Elevation sheet #33 of 45.
③ "p" bars include p5(E) and p13(E) thru p19(E).

WEST ABUT. BILL OF MATERIAL

Bar	No.	Size	Length (m)	Shape
h1(E)	10	#15	2.03	
h2(E)	10	#15	2.03	
h8(E)	12	#15	5.17	
h9(E)	8	#15	5.18	
h10(E)	11	#15	4.74	
h11(E)	7	#15	4.75	
h12(E)	14	#15	9.05	
h13(E)	8	#20	9.12	
n1(E)	14	#20	3.64	
n4(E)	14	#20	4.10	
n5(E)	6	#20	1.83	
n6(E)	6	#20	2.06	
p5(E)	15	#25	3.90	
p11(E)	12	#25	4.95	
p12(E)	3	#25	8.12	
p13(E)	3	#25	7.33	
p14(E)	3	#25	5.65	
p15(E)	12	#15	9.43	
p16(E)	3	#25	3.37	
p17(E)	3	#25	3.20	
p18(E)	2	#25	2.28	
p19(E)	1	#25	2.11	
s(E)	6	#15	4.98	
s9(E)	10	#15	5.50	
s12(E)	30	#15	2.90	
s13(E)	6	#15	5.26	
s14(E)	6	#15	5.54	
s15(E)	4	#15	5.82	
s16(E)	3	#15	5.22	
s17(E)	6	#15	5.70	
s18(E)	5	#15	5.32	
s19(E)	3	#15	5.42	
u(E)	5	#20	3.48	
u1(E)	5	#20	2.76	
v(E)	120	#15	1.70	
v1(E)	60	#15	1.10	
v2(E)	60	#15	.68	
v9(E)	17	#20	2.08	
v10(E)	14	#20	2.14	
v11(E)	3	#20	2.06	
v12(E)	17	#20	1.98	
v13(E)	14	#20	2.00	
v14(E)	3	#20	1.96	
Bar Splicers		Each	60	
Structure Excavation		m^3	161	
Concrete Encasement		m^3	5.5	
Form Liner Textured Surface		m^2	28	
Concrete Structures		m^3	58.3	
Reinforcement Bars (Epoxy Coated)		kg	3,470	
Furnishing Metal Shell Piles 356mmX6.35mm		m	440	
Driving Piles		m	440	
Concrete Sealer		m^2	59	
Test Pile Metal Shells		Each	1	

PILE DATA

Type & Size: Metal Shell - 356 mm ϕ x 6.35 mm walls
Nominal Required Bearing: 1500 kN
Allowable Resistance Available: 500 kN
Est. Length: 27.5 m
No. Required: 16 + 1 Test Pile

DESIGNED	ADL
CHECKED	WLW
DRAWN	RJP
CHECKED	WLW

WEST ABUTMENT
FAP RTE. 310 (IL RTE. 255) SB & RAMP D OVER
UNION PACIFIC & KANSAS CITY SOUTHERN R.R.
SECTION 60-15VB-1 & 2
MADISON COUNTY
STATION 39+160.297
STRUCTURE NUMBER 060-0311

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Klingner & Assoc., P.C.