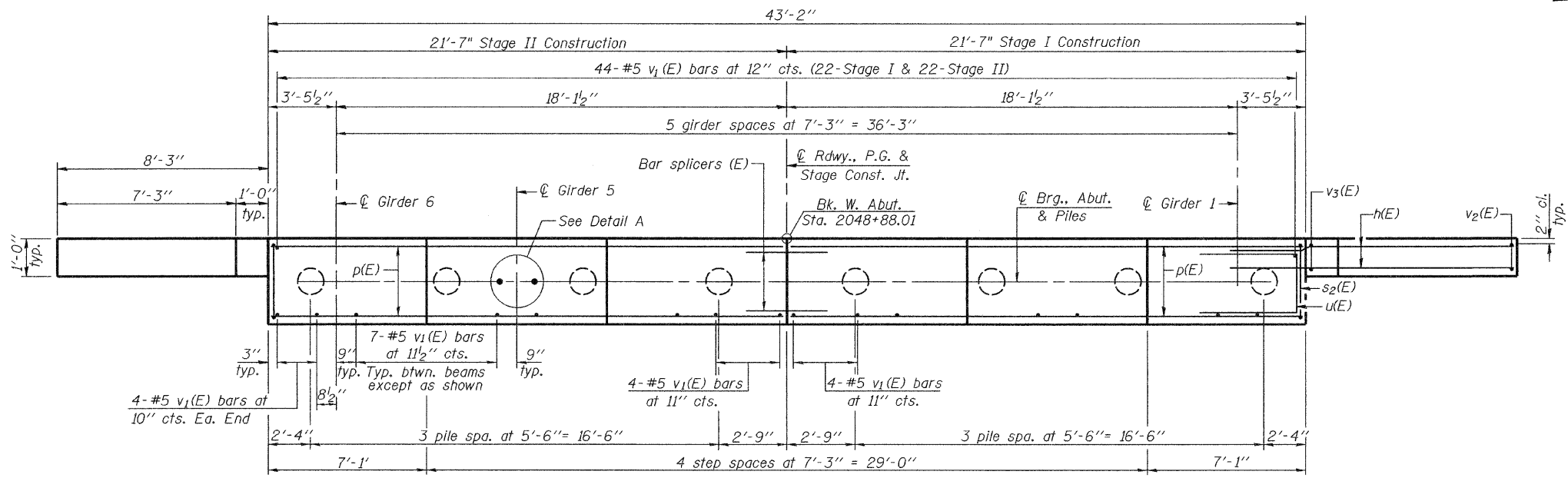
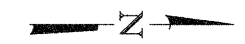
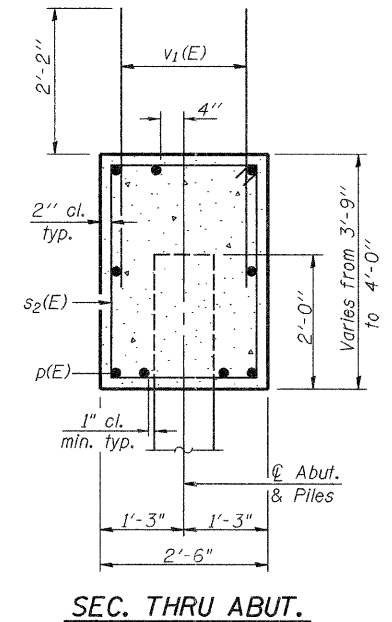
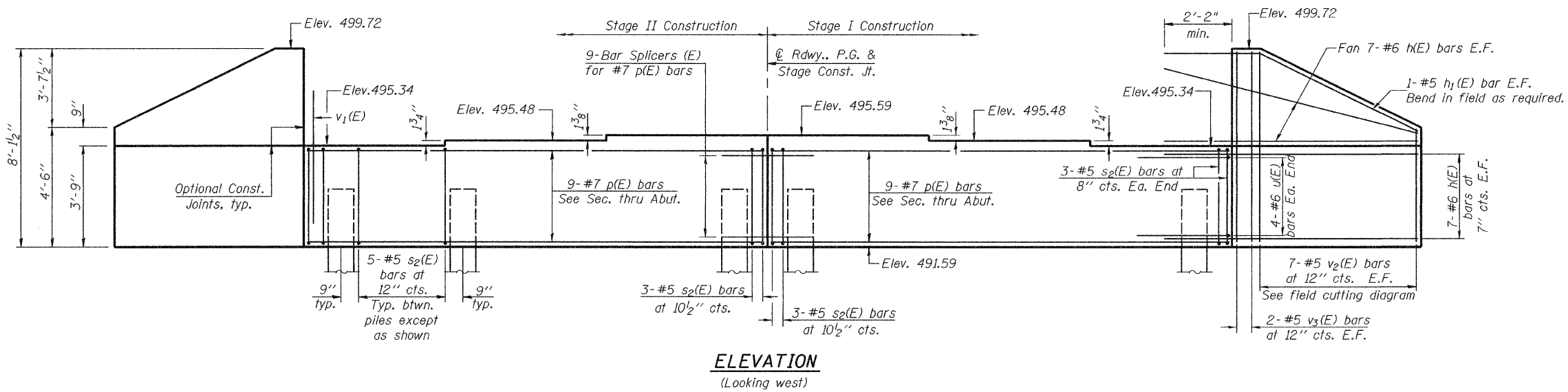


STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	SHEET NO. 15 19 SHEETS
F.A.P. 42	139BR	BOND	59	48	
FED. ROAD DIST. NO. 7		ILLINOIS	FED. AID PROJECT		

Contract #76391

Notes: Pour steps monolithically with cap.
For bar splicer assembly details, see sheet 18 of 19.
For details of piles, see sheet 17 of 19.
If h(E) bars interfere with Metal Shell Piles, cut h(E) bars to fit.



BILL OF MATERIAL

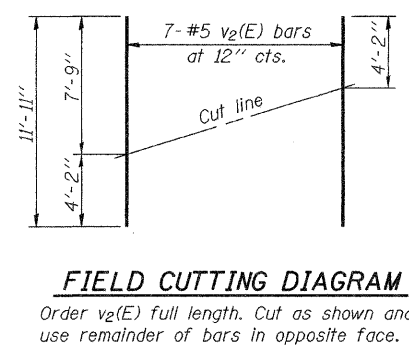
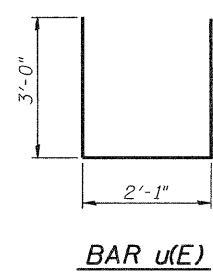
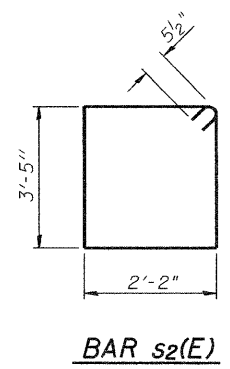
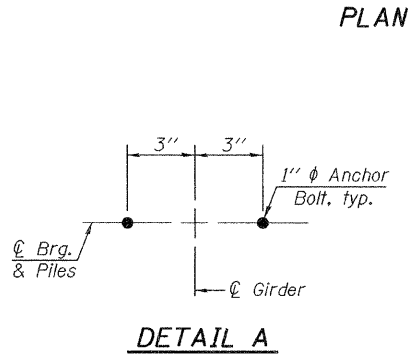
Bar	No.	Size	Length	Shape
h(E)	56	#6	10'-5"	—
h1(E)	4	#5	11'-4"	—
p(E)	18	#7	21'-3"	—
s2(E)	42	#5	12'-1"	□
u(E)	8	#6	8'-1"	□
v1(E)	88	#5	4'-4"	—
v2(E)	14	#5	11'-11"	—
v3(E)	8	#5	7'-9"	—
Concrete Structures		Cu. Yd.	19.5	
Reinforcement Bars, Epoxy Coated		Pound	2970	
Structure Excavation		Cu. Yd.	122	
Furnishing Metal Shell Piles 14"φ x 0.25"		Foot	364	
Driving Piles		Foot	364	
Test Pile Metal Shell		Each	1	
Anchor Bolts, 1"		Each	12	

PILE DATA

Type: 14" φ Metal Shell Pile with 0.25" wall
Nominal Required Bearing: 353 Kips
Factored Resistance Available: 176 Kips
Estimated Pile Length: 52'
No. Production Piles: 7
No. Test Piles: 1

DESIGNED	Phillip R. Litchfield
CHECKED	Nick R. Barnett
DRAWN	R. Sommer
CHECKED	P.R.L./N.R.B.

November 7, 2008
EXAMINED *Thomas J. Domagalaki*
ENGINEER OF BRIDGE DESIGN
PASSED *Ralph E. Anderson*
ENGINEER OF BRIDGES AND STRUCTURES



WEST ABUTMENT
F.A.P. ROUTE 42 - SECTION 139BR
BOND COUNTY
STATION 2049+33.51
STRUCTURE NO. 003-0061