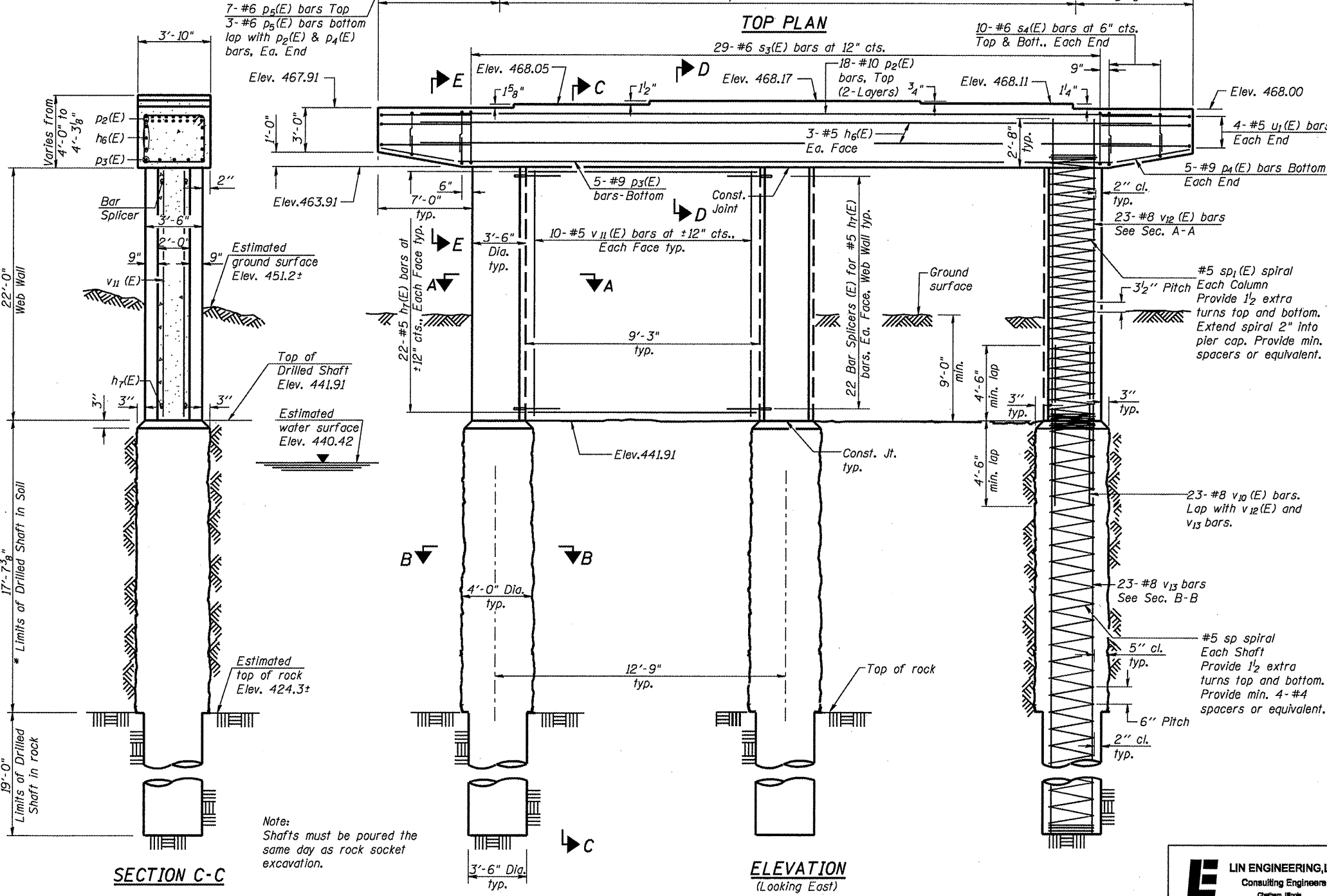
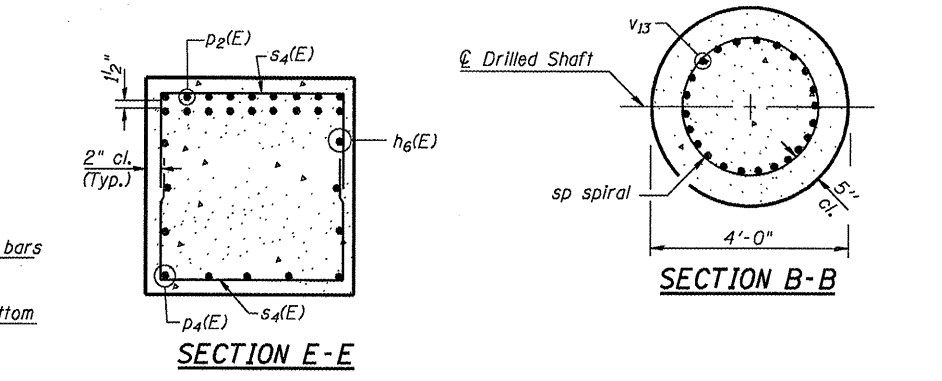
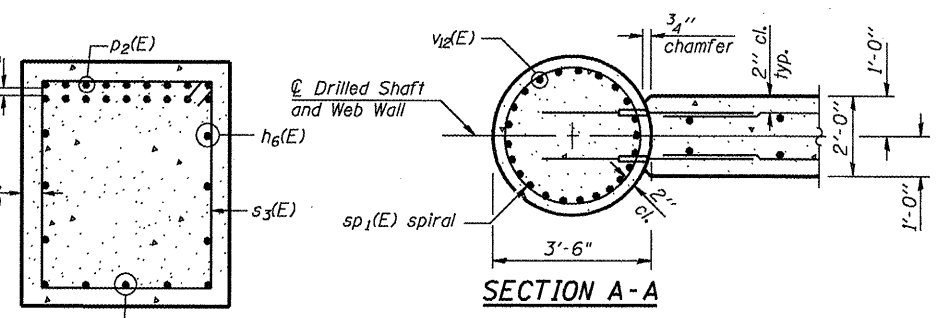
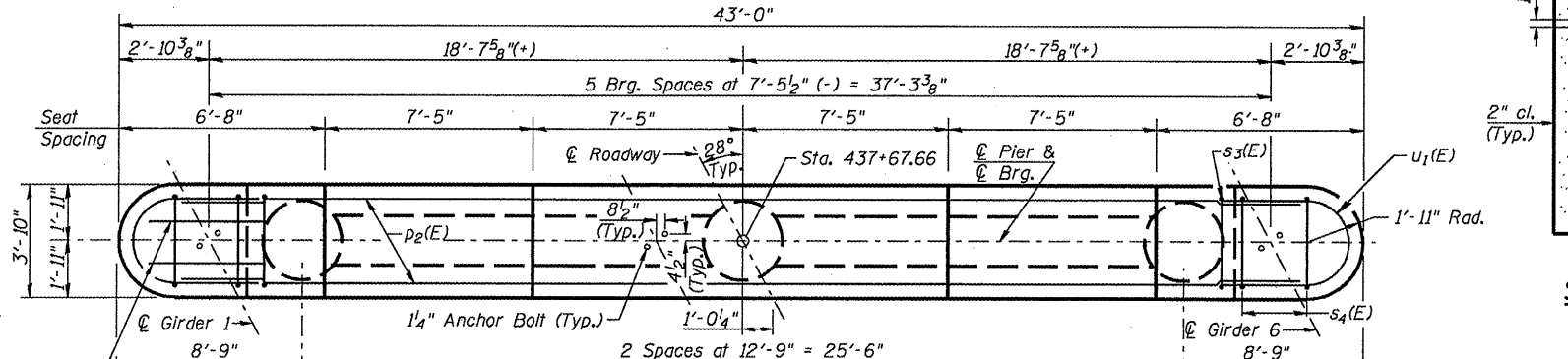


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DEPARTMENT OF TRANSPORTATION

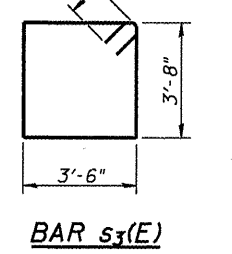
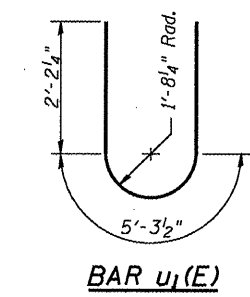
\* If the prevailing water surface elevation during construction is consistently different than estimated on the plans, the contractor may propose an adjustment to the top of the drilled shaft elevation as part of their installation procedure. The top of all drilled shafts within a substructure unit shall be constructed to the same elevation and extend above the prevailing water surface. The quantities and reinforcement detailing are based on the top of shaft and the estimated elevations shown and may change based on the actual elevations encountered at each shaft and the final top of shaft elevation.



**MIN. BAR LAP**  
#5 bar = 2'-2"  
#6 bar = 2'-7"

**BILL OF MATERIAL**

Bar	No.	Size	Length	Shape
$h_6(E)$	6	#5	39'-2"	—
$h_7(E)$	88	#5	8'-11"	—
$p_2(E)$	18	#10	39'-2"	—
$p_3(E)$	5	#9	30'-0"	—
$p_4(E)$	10	#9	6'-5"	—
$p_5(E)$	20	#6	5'-6"	—
$s_3(E)$	29	#6	15'-8"	□
$s_4(E)$	40	#6	9'-4"	□
$sp$	3	#5	36'-3"	⋈
$sp_1(E)$	3	#5	22'-2"	⋈
$u_1(E)$	8	#5	9'-8"	—
$v_{10}(E)$	69	#8	9'-0"	—
$v_{11}(E)$	40	#5	21'-8"	—
$v_{12}(E)$	69	#8	24'-6"	—
$v_{13}$	69	#8	36'-3"	—
Structure Excavation			Cu. Yd.	71
Concrete Structures			Cu. Yd.	79.6
Reinforcement Bars			Pound	8910
Reinforcement Bars, Epoxy Coated			Pound	15720
Drilled Shaft in Soil			Cu. Yd.	24.6
Drilled Shaft in Rock			Cu. Yd.	20.3



Cast steps monolithically with cap. Space cap reinforcement to miss anchor bolts. Minimum lap for spirals = 2'-2"  
\*\* Length is height of spiral. See sheet 24 of 29 for Bar Splicer Details.

**PIER 2 DETAILS  
STRUCTURE NO. 005-0500**

<p>LIN ENGINEERING, LTD. Consulting Engineers Chattanooga, Illinois</p>	SHEET NO. 23	F.A.P. RTE. 317	SECTION (10B-1)R	COUNTY BROWN/SCHUYLER	TOTAL SHEETS 196	SHEET NO. 142
	29 SHEETS	CONTRACT NO. 72432		ILLINOIS FED. AID PROJECT		