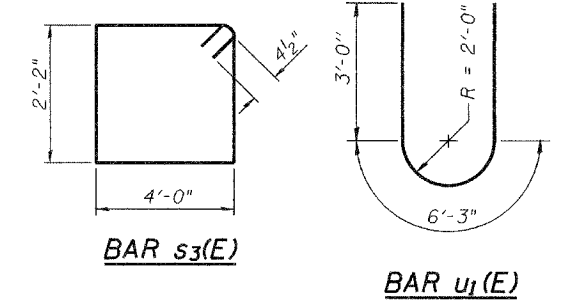
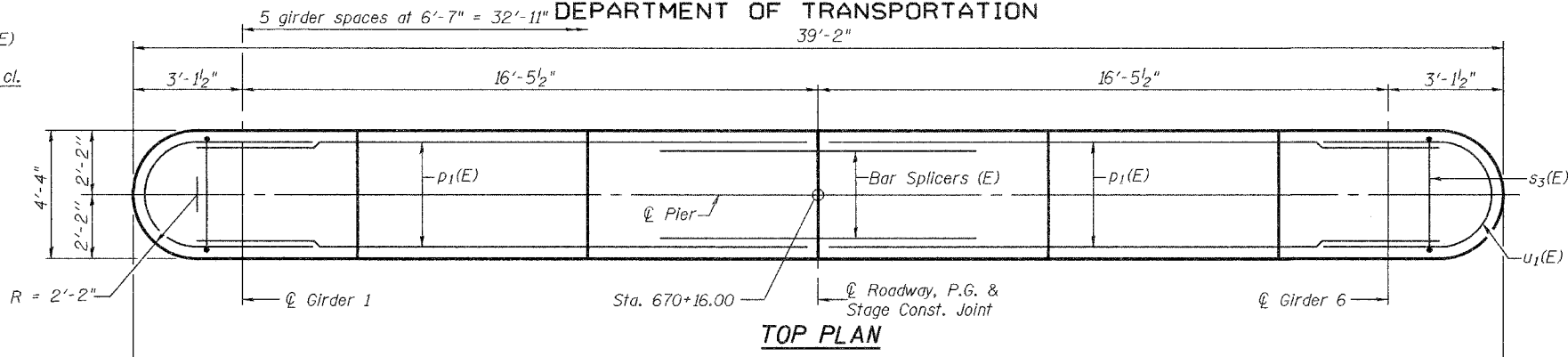
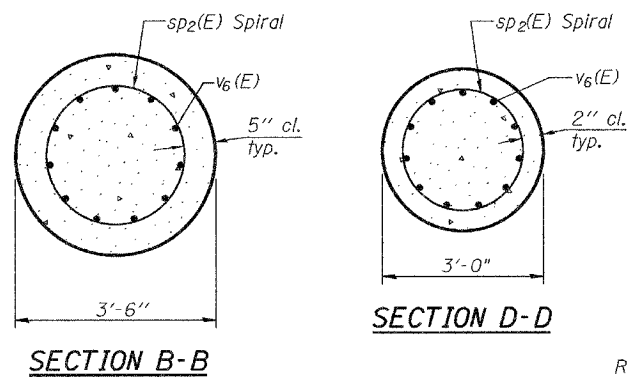


STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

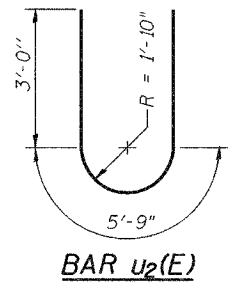
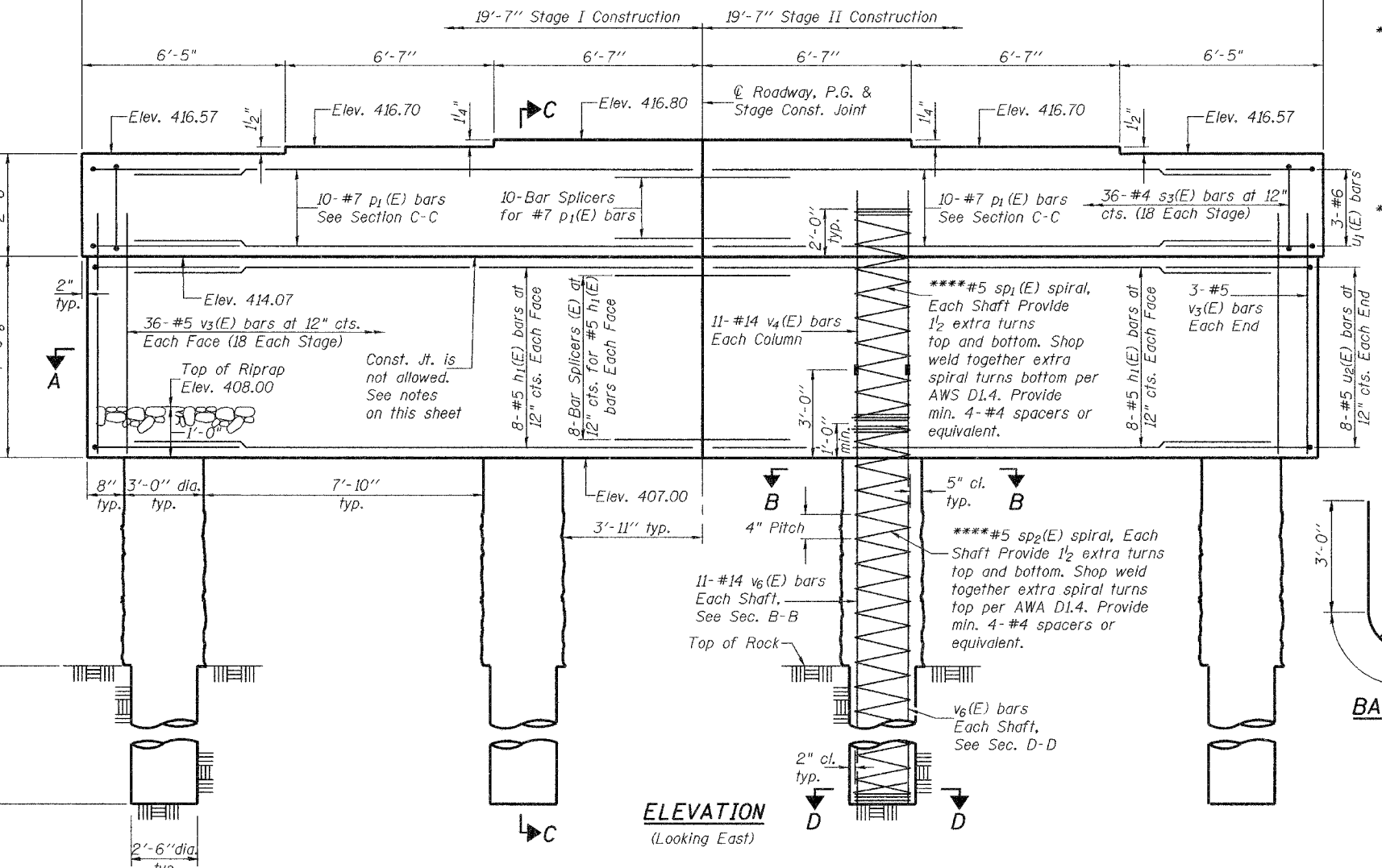
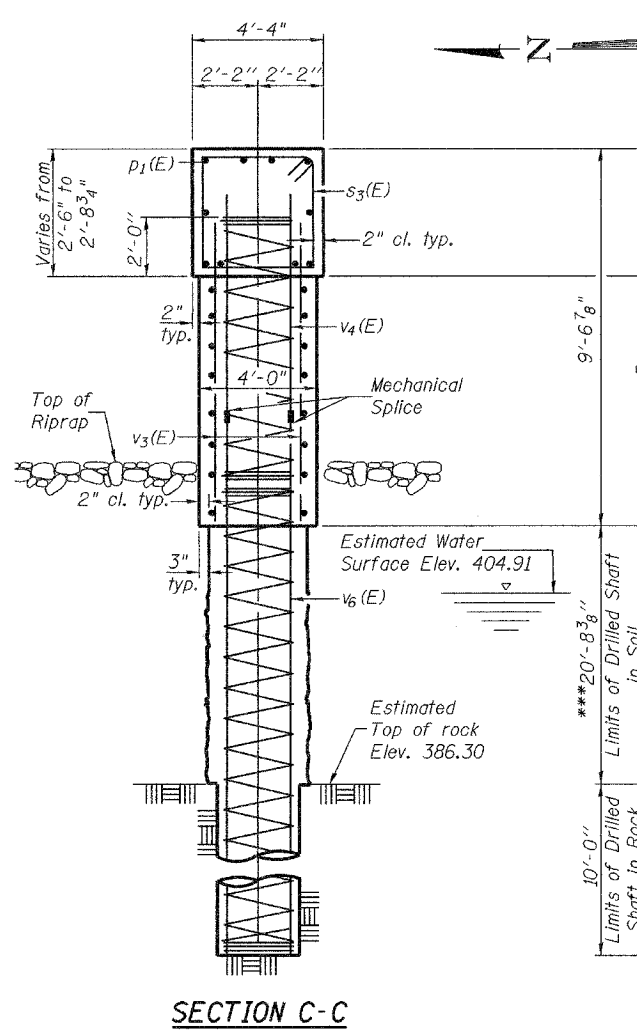
ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.S. 1842	106BR	ST. CLAIR	61	38
FED. ROAD DIST. NO. 7		ILLINOIS	FED. AID PROJECT	

SHEET NO. 17  
22 SHEETS

Contract No. 76129



\*\*\*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.  
\*\*\*Allowable Substitution: Provide 1/2 extra turns top and bottom with 135° standard hook into core at ends of spiral.



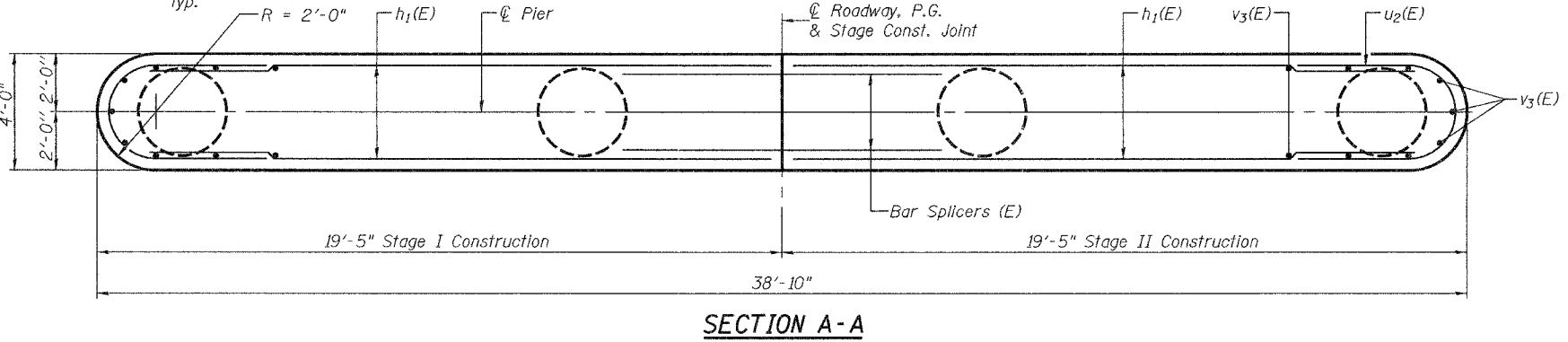
**BILL OF MATERIAL**

Bar	No.	Size	Length	Shape
h1(E)	32	#5	17'-3"	—
p1(E)	20	#7	17'-3"	—
s3(E)	36	#4	13'-1"	□
* sp1(E)	4	#5	8'-1"	~
* sp2(E)	4	#5	32'-0"	~
u1(E)	6	#6	12'-3"	U
u2(E)	16	#5	11'-9"	U
v3(E)	78	#5	8'-11"	—
v4(E)	44	#14	6'-4"	—
v6(E)	44	#14	33'-8"	—
Concrete Structures		Cu. Yd.	56.4	
Reinforcement Bars, Epoxy Coated		Pound	27970	
Underwater Structure Excavation Protection, Location 2		Each	1	
Drilled Shaft in Soil		Cu. Yd.	29.6	
Drilled Shaft in Rock		Cu. Yd.	10.5	
Structure Excavation		Cu. Yd.	12	
Mechanical Splice		Each	44	

Notes:  
Top of rock is estimated and may vary along the length of the pier.  
Pour cap monolithically with pier wall.

DESIGNED	AMJ
CHECKED	RLM
DRAWN	AMC AMBER SEIBER
CHECKED	RLM

January 23, 2007  
EXAMINED *Thomas J. Damgalaki*  
ENGINEER OF BRIDGE DESIGN  
PASSED *Ralph E. Anderson*  
ENGINEER OF BRIDGES AND STRUCTURES



**PIER 2**  
F.A.S. ROUTE 1842 - SECTION 106BR  
ST. CLAIR COUNTY  
STATION 669+65.50  
STRUCTURE NO. 082-0387