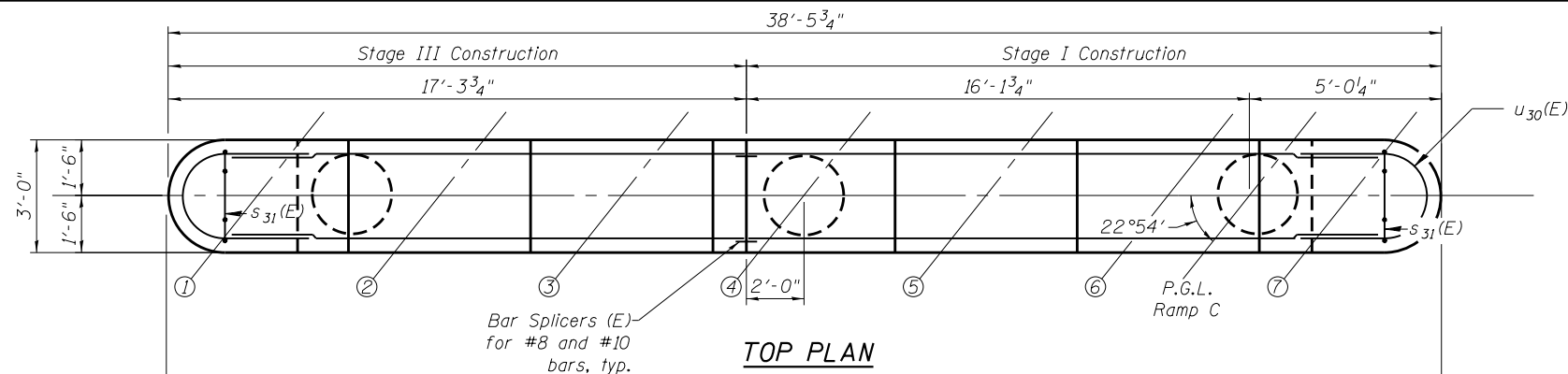
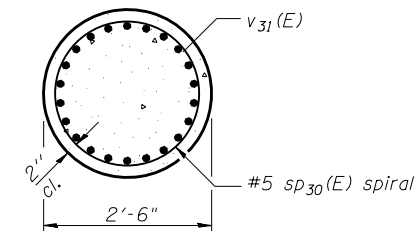


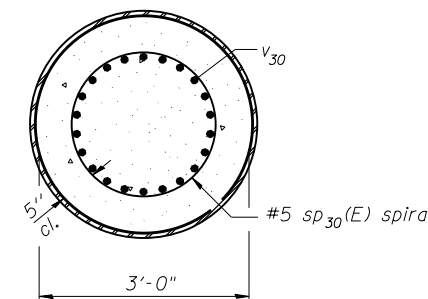
SECTION D-D



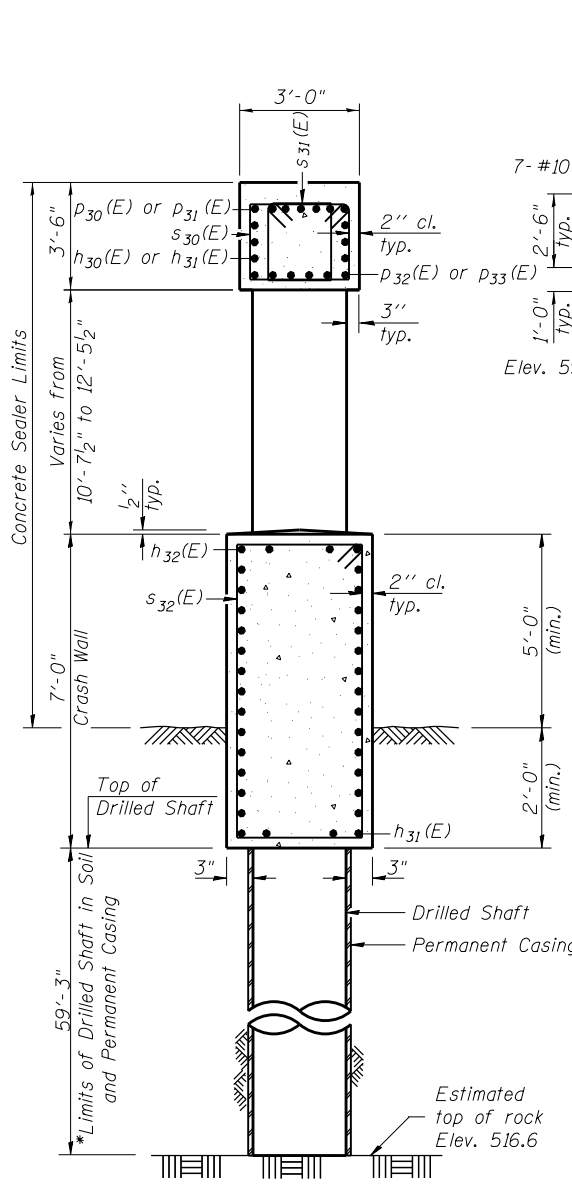
TOP PLAN



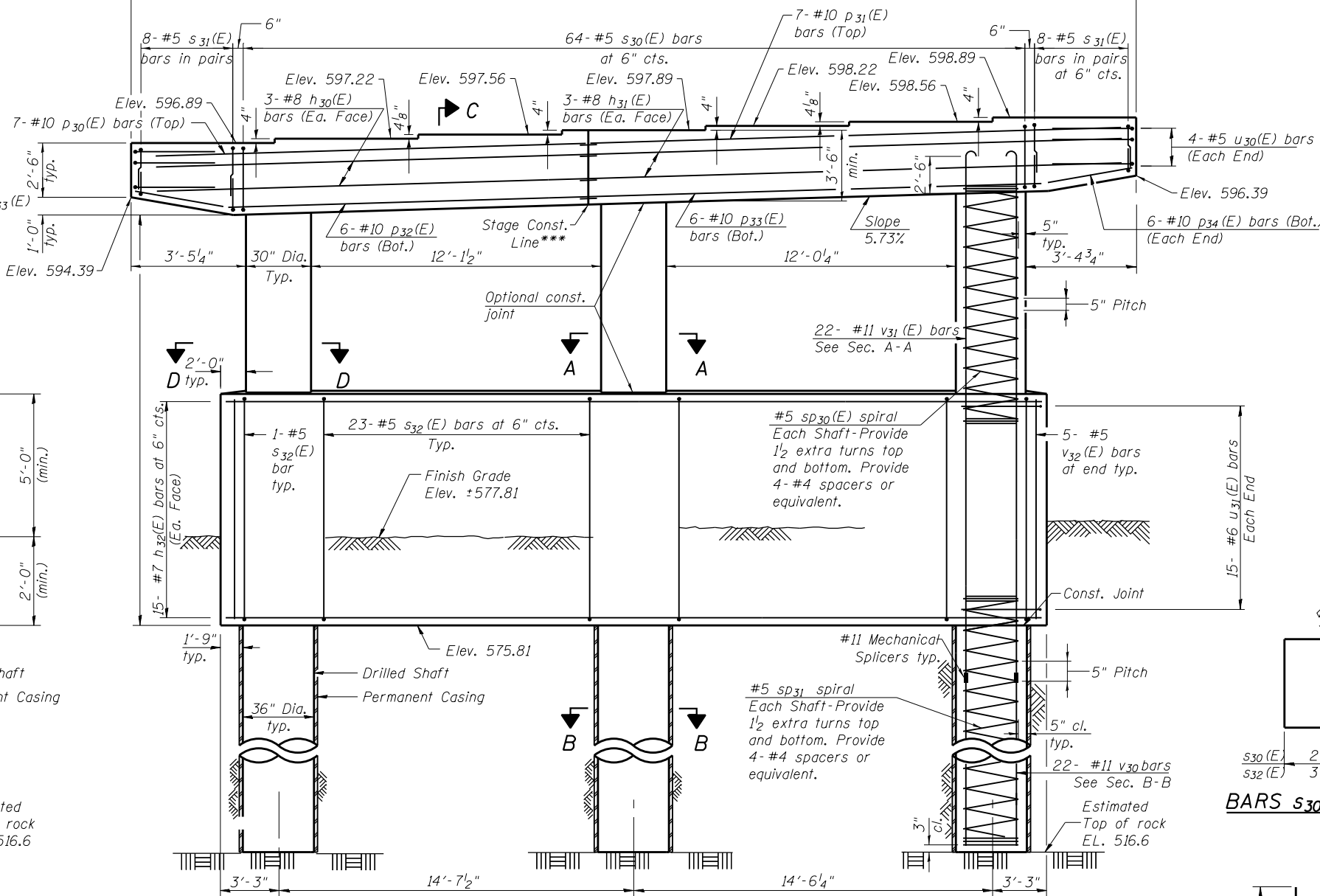
SECTION A-A



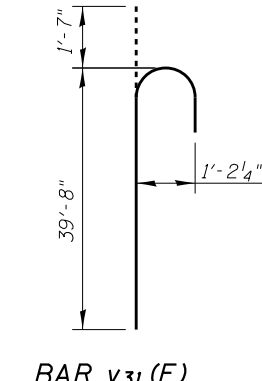
SECTION B-B



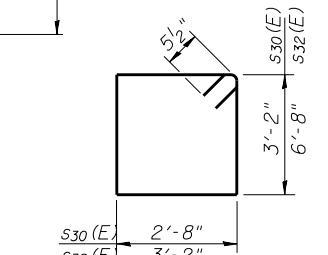
SECTION C-C



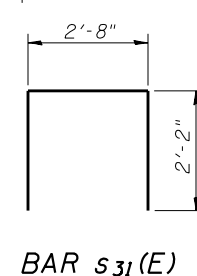
ELEVATION (Looking West)



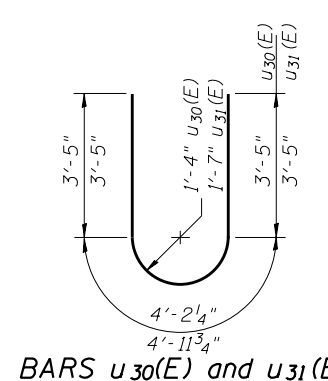
BAR v31(E)



BARS s30(E) & s32(E)



BAR s31(E)



BARS u30(E) and u31(E)

BILL OF MATERIAL

Bar	No.	Size	Length	Shape
h30(E)	6	#8	16'-9"	—
h31(E)	6	#8	20'-8"	—
h32(E)	30	#7	35'-1"	—
p30(E)	7	#10	16'-9"	—
p31(E)	7	#10	20'-8"	—
p32(E)	6	#10	13'-5"	—
p33(E)	6	#10	17'-4"	—
p34(E)	12	#10	2'-8"	—
s30(E)	64	#5	12'-7"	□
s31(E)	32	#5	7'-0"	U
s32(E)	48	#5	20'-7"	□
sp30(E)	3	#5	14'-0"	W
sp31	3	#5	60'-0"	W
u30(E)	8	#5	11'-0"	U
u31(E)	30	#6	11'-10"	U
v30	66	#11	44'-0"	—
v31(E)	66	#11	37'-11"	—
v32(E)	10	#5	6'-8"	—
Concrete Sealer	Sq. Ft.	418		
Concrete Structures	Cu. Yd.	54.5		
Reinforcement Bars	Pound	18,500		
Reinforcement Bars, Epoxy Coated	Pound	21,640		
Drilled Shaft in Soil	Cu. Yd.	46.6		
Permanent Casing	Foot	178		

** Length is height of spiral.

Notes:
 Cast steps monolithically with cap.
 Space cap reinforcement to miss anchor bolts.
 Minimum lap for spirals = 2'-6"
 Concrete Sealer applied to roadside face of Pier only.
 For Anchor Bolt and Bearing Plate locations, see sheets S29 thru S31 of S49.
 See sheet S43 of S49 for Bar Splicer Details.

MINIMUM BAR LAP

- (E) bars
- #5 bar = 3'-3"
- #6 bar = 3'-10"
- #8 bar = 6'-9"
- #10 bar = 10'-10"

* The quantities and reinforcement detailing are based on the top of shaft and the estimated top of rock elevations shown and may change based on the actual top of rock encountered at each shaft and the final top of shaft elevation. The casing thickness shall be 1/2", typ. See Article S16.06(d) of the Standard Specifications. Pay limits for the Permanent Casing are based on the minimum length shown.

*** South portion of pier cap only to be completed following existing structure removal