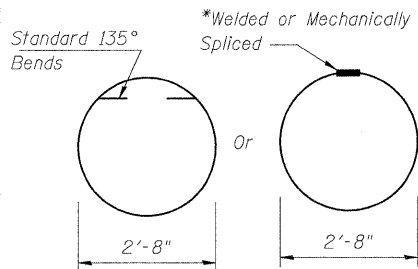


STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

Notes:

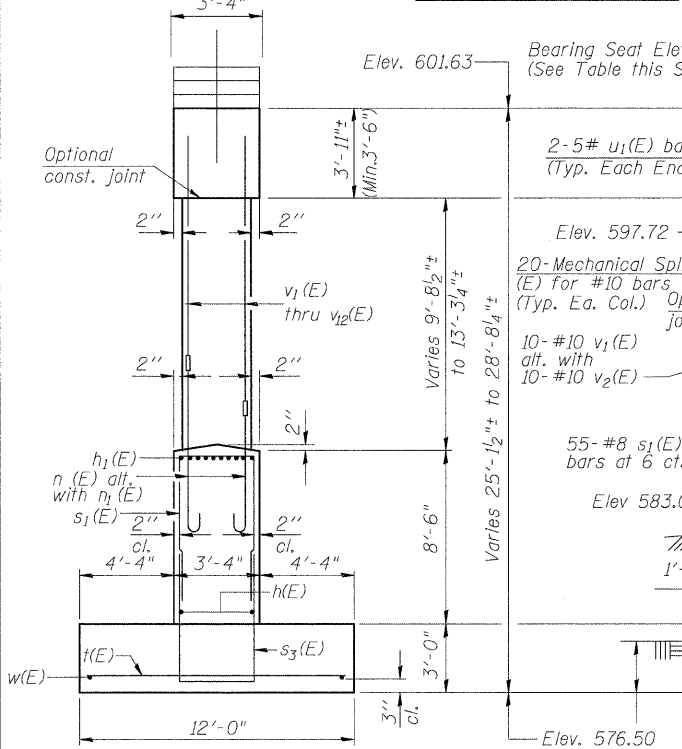
1. Space reinforcement in cap to miss anchor bolts.
2. Pour steps monolithically with cap.
3. When splicing of spiral reinforcement is necessary, the spirals shall be provided with 1/2 extra turns at the ends to be spliced. These additional turns shall either be welded together according to AWS D1.4 or shall both terminate with a 135° standard hook.



BAR $sp_7(E)$

*Shop Weld per AWS D1.4

BARS $n(E)$ or $n_1(E)$



END VIEW

MIN. BAR LAP

- #5 - 2'-2"
- #6 - 2'-7"
- #7 - 3'-5"
- #8 - 4'-6"
- #9 - 5'-9"

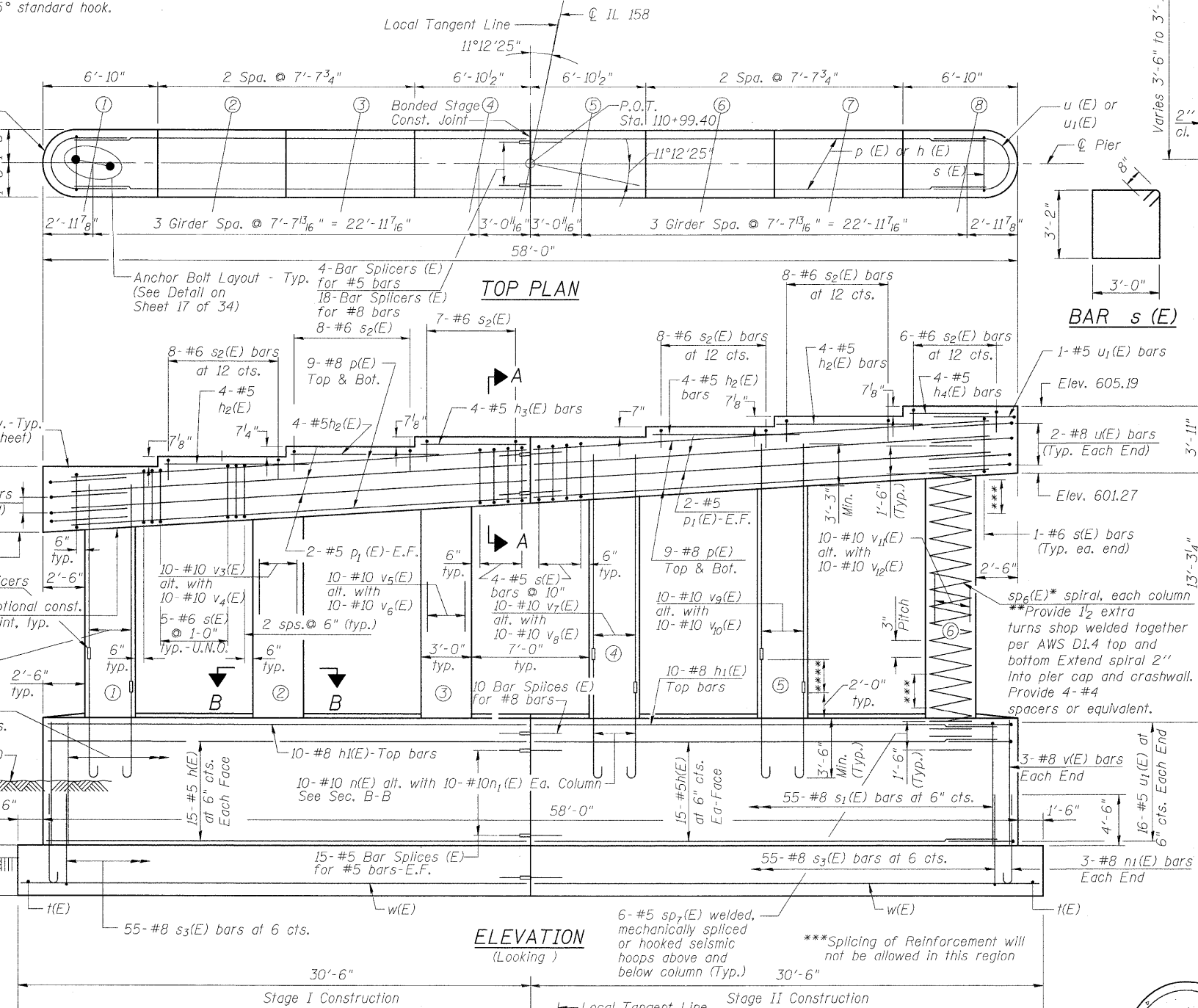
BEARING SEAT ELEV.

Girder	Elevation
1	601.63
2	602.23
3	602.83
4	603.42
5	603.42
6	604.01
7	604.60
8	605.19

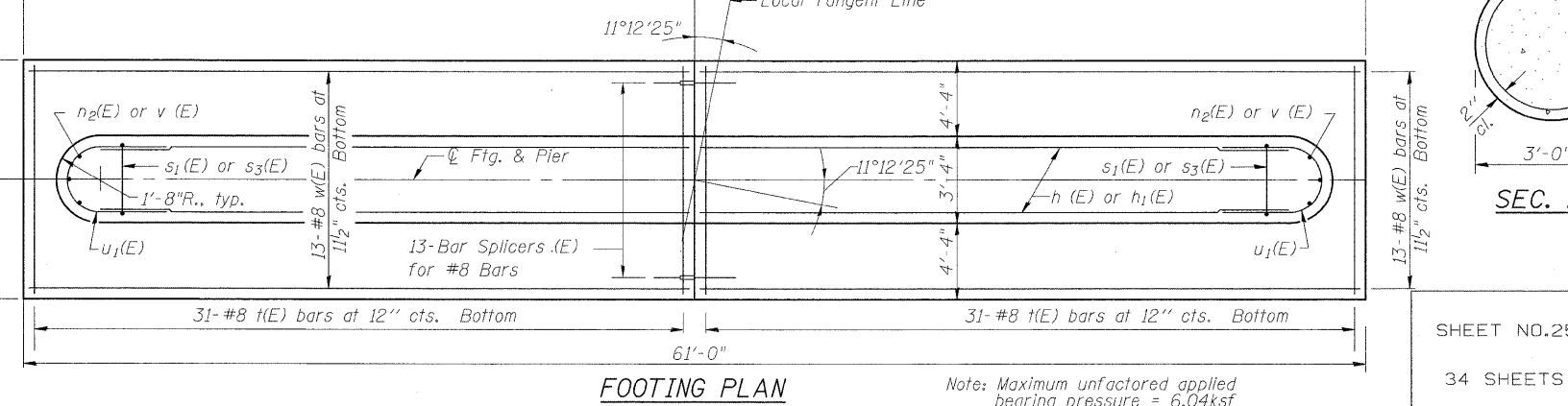


DESIGNED - CCS
CHECKED - WPM
DRAWN - MD
CHECKED - WPM

9-28-09

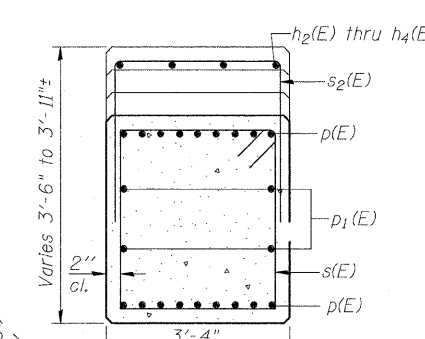


ELEVATION (Looking)

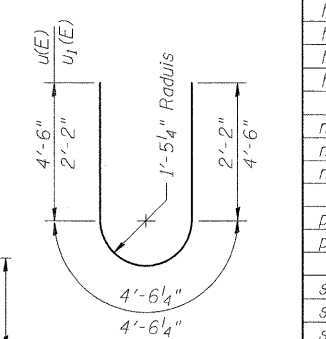


FOOTING PLAN

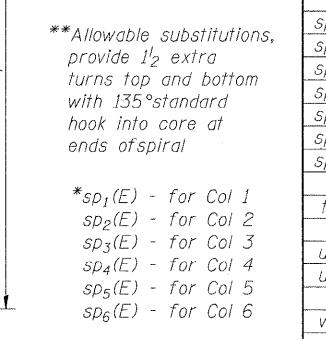
Note: Maximum unfactored applied bearing pressure = 6.04ksf



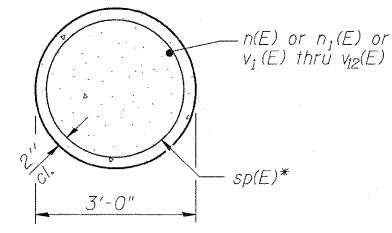
SEC. A-A



BARS $u(E)$ or $u_1(E)$



BARS $s_1(E)$ or $s_2(E)$ or $s_3(E)$



SEC. B-B

**** Offset alternating reinforcement bars by 2'-0" vertically

BILL OF MATERIAL

Bar	No.	Size	Length	Shape
$h(E)$	60	#5	27'-3"	—
$h_1(E)$	20	#8	27'-3"	—
$h_2(E)$	16	#5	9'-9"	—
$h_3(E)$	4	#5	6'-7"	—
$h_4(E)$	4	#5	5'-0"	—
$n(E)$	60	#10	8'-11"	—
$n_1(E)$	60	#10	6'-11"	—
$n_2(E)$	6	#8	8'-2"	—
$p(E)$	36	#8	27'-3"	—
$p_1(E)$	8	#5	27'-3"	—
$s(E)$	46	#6	13'-8"	□
$s_1(E)$	110	#8	19'-8"	U
$s_2(E)$	45	#6	6'-2"	U
$s_3(E)$	110	#8	17'-6"	U
$sp_1(E)$	1	#5	10'-0"	~
$sp_2(E)$	1	#5	10'-7"	~
$sp_3(E)$	1	#5	11'-3"	~
$sp_4(E)$	1	#5	11'-10"	~
$sp_5(E)$	1	#5	12'-5"	~
$sp_6(E)$	1	#5	13'-1"	~
$sp_7(E)$	72	#5	9'-2"	○
$t(E)$	62	#8	11'-8"	—
$u(E)$	4	#8	13'-7"	—
$u_1(E)$	36	#5	8'-11"	—
$v(E)$	6	#8	8'-4"	—
$v_1(E)$	10	#10	9'-0"	—
$v_2(E)$	10	#10	11'-0"	—
$v_3(E)$	10	#10	9'-9"	—
$v_4(E)$	10	#10	11'-9"	—
$v_5(E)$	10	#10	10'-5"	—
$v_6(E)$	10	#10	12'-5"	—
$v_7(E)$	10	#10	11'-2"	—
$v_8(E)$	10	#10	13'-2"	—
$v_9(E)$	10	#10	11'-10"	—
$v_{10}(E)$	10	#10	13'-10"	—
$v_{11}(E)$	10	#10	12'-7"	—
$v_{12}(E)$	10	#10	14'-7"	—
$w(E)$	26	#8	30'-4"	—
Structure Excavation		Cu. Yd.	77	
Rock Excavation For Structures		Cu. Yd.	122	
Concrete Structures		Cu. Yd.	127	
Mechanical Splicers		Each	120	
Reinforcement Bars, Epoxy Coated		Pound	36,675	

**Allowable substitutions, provide 1/2 extra turns top and bottom with 135° standard hook into core at ends of spiral

* $sp_1(E)$ - for Col 1
 $sp_2(E)$ - for Col 2
 $sp_3(E)$ - for Col 3
 $sp_4(E)$ - for Col 4
 $sp_5(E)$ - for Col 5
 $sp_6(E)$ - for Col 6

**Provide 1/2 extra turns shop welded together per AWS D1.4 top and bottom. Extend spiral 2" into pier cap and crashwall. Provide 4-#4 spacers or equivalent.

Note: Length of $sp_1(E)$ through $sp_6(E)$ is height of spiral.

PIER DETAILS

STRUCTURE NO. 067-0042

SHEET NO. 25 34 SHEETS	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	809	67-1HBR	Monroe	144	89
FED. ROAD DIST. NO. 7 ILLINOIS			FED. AID PROJECT		
CONTRACT NO. 76977					