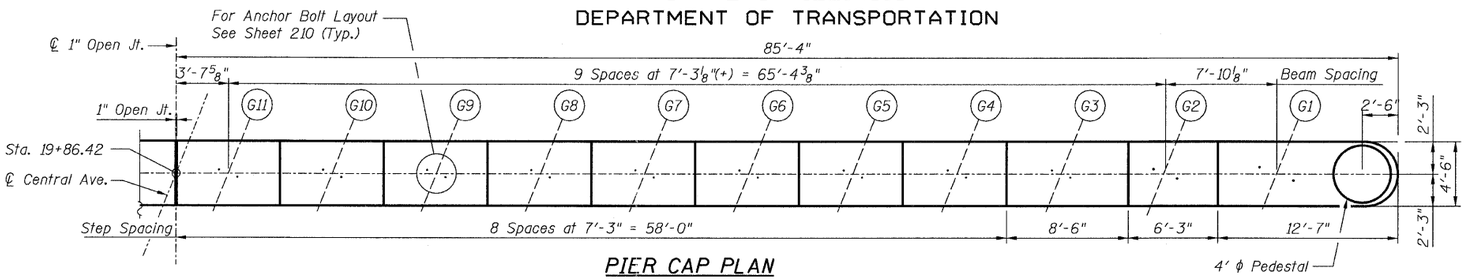
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

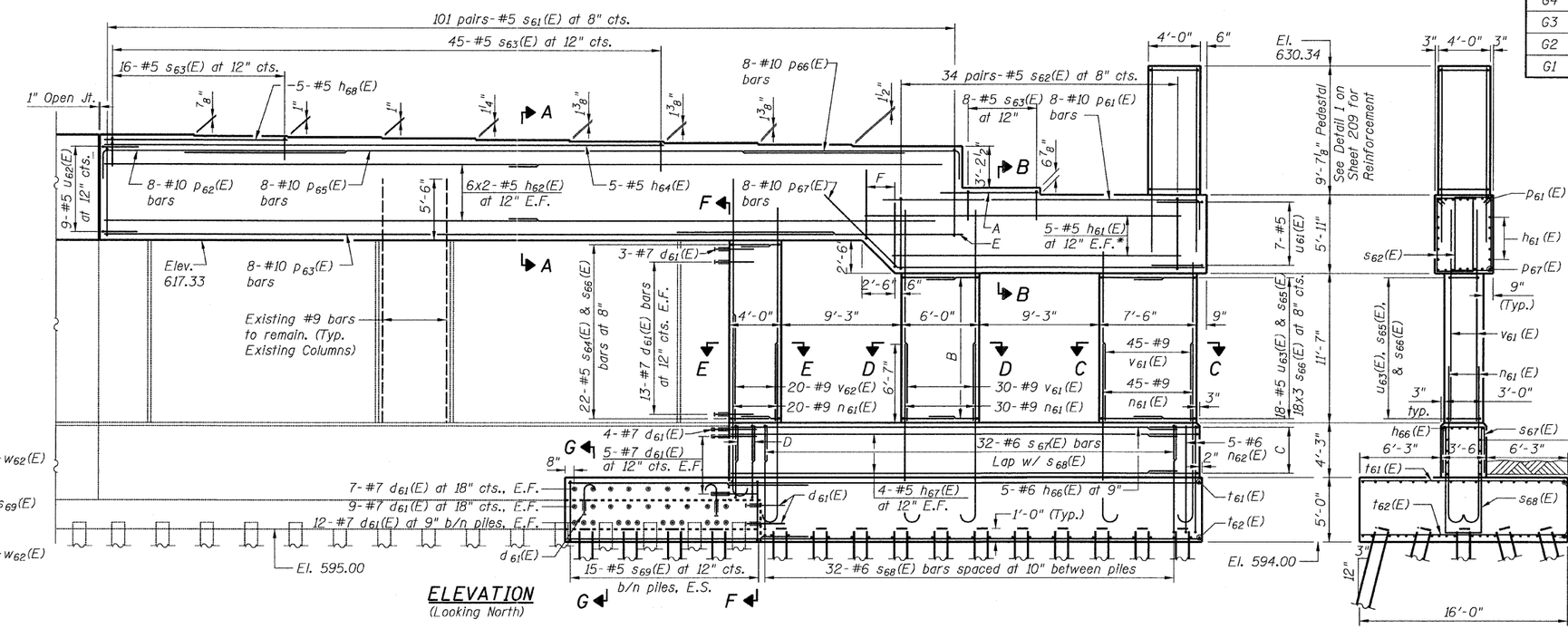
NOTES

1. Bars indicated thus 5x2-#5 indicates 5 lines of bars with two lengths per line.
2. Space reinforcement in cap to miss anchor bolts.
3. Space reinforcement in footing to miss piles.
4. Pour steps monolithically with cap.
5. Pile capacity of existing 12"ϕ timber piles is 20 tons.
6. For Bill of Materials, see sheet 210.
7. Work this sheet with sheets 208, 209 & 210.
8. E.F. - denotes Each Face.
9. E.S. - denotes Each Side.
10. Sand blast clean existing reinforcing bars to be incorporated into new construction. After cleaning, bars shall be evaluated to determine if additional reinforcing bars are required. Damaged or cut bars, or bars that have lost 25% or more of their original cross sectional area shall be replaced in-kind by drilling and grouting into existing concrete. Cost included with "Concrete Removal".
11. Epoxy grout $d_{61}(E)$ & $d_{62}(E)$ bars according to Section 584 of the Standard Specifications. Drill to miss existing reinforcement. The cost shall be included in "Reinforcement Bars, Epoxy Coated."

* Cut to fit in field.

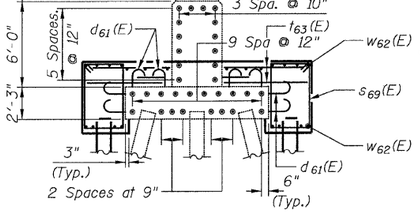


PIER CAP PLAN



ELEVATION
(Looking North)

END VIEW
(East Extension)

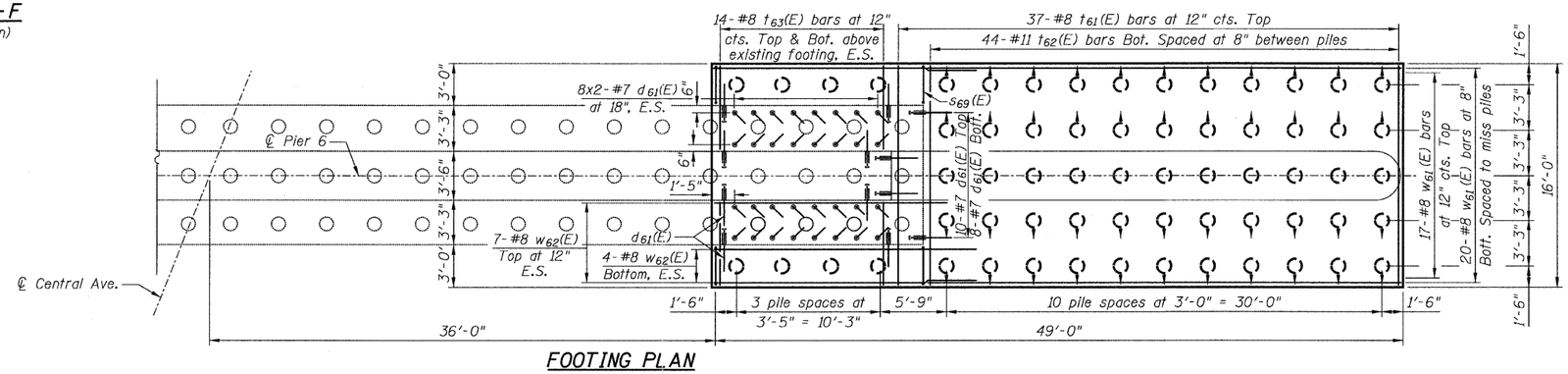


SECTION F-F
(East Extension)

PILE DATA

Type: 12" ϕ x 0.25" Wall
Nominal Required Bearing: 270 kips
Allowable Resistance Available: 90 kips
Estimated Length: 48 ft
No. Production Piles: 62
No. Test Piles: 1

- Proposed Pile
- Proposed Battered Pile
- Existing Pile



FOOTING PLAN

BRIDGE SEAT ELEVATIONS

Girder Line	Seat Elevation
G11	625.34
G10	625.27
G9	625.19
G8	625.10
G7	625.00
G6	624.89
G5	624.77
G4	624.66
G3	624.53
G2	621.32
G1	620.75

A: 5-#5 $h_{63}(E)$
B: 18-#5 $s_{65}(E)$ bars at 8" cts. 18x2-#5 $s_{66}(E)$ bars at 8" cts.
C: 5-#5 $u_{64}(E)$ at 12" cts.
D: 3-#6 $s_{67}(E)$ pairs at 12" cts.
E: 8-#10 $p_{64}(E)$ bars
F: 4-#5 $s_{72}(E)$ bars at 12" cts.

PIER 6 WIDENING - EAST CENTRAL/I-55
STRUCTURE NO. 016-0724

TYLIN INTERNATIONAL

		REVISIONS	
DESIGNED	- MB	NAME	DATE
CHECKED	- AMD,		
DRAWN	- MB		
CHECKED	- AMD,		
DATE	- 03/25/2011		

SHEET NO. 207	F.A.I RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
239 SHEETS	55	0711.2R & 1011.1BR	COOK	741	531
			CONTRACT NO. 60999		
	FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		

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5/9/2011