

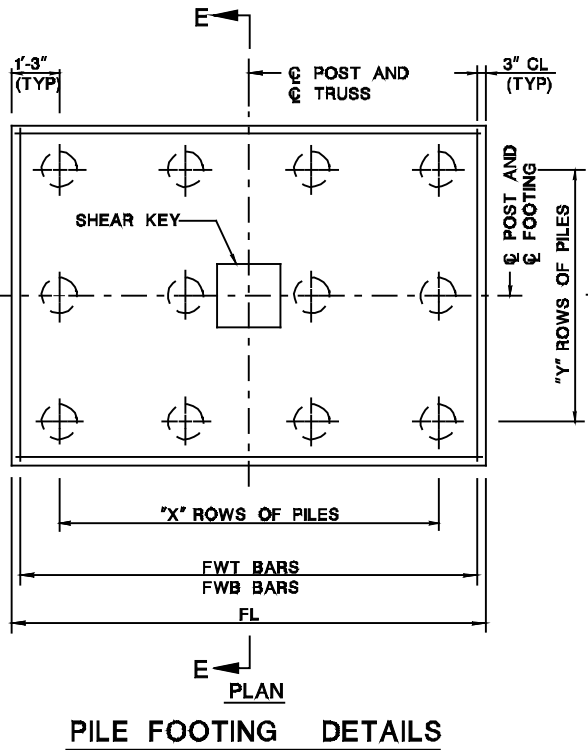
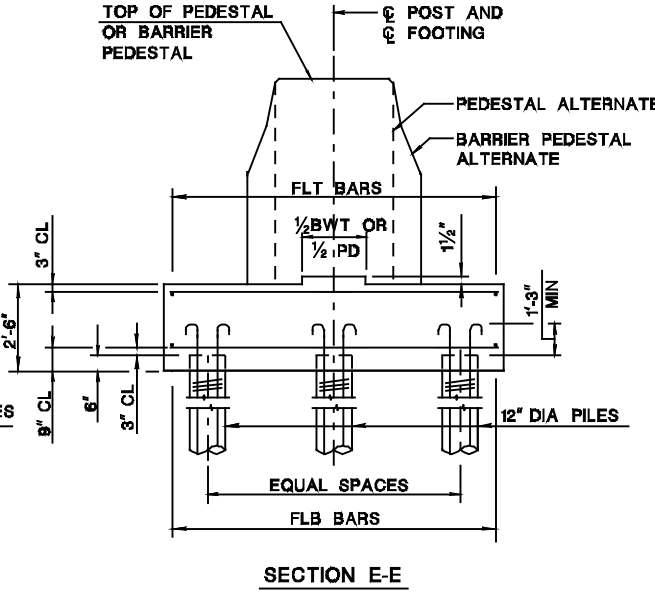
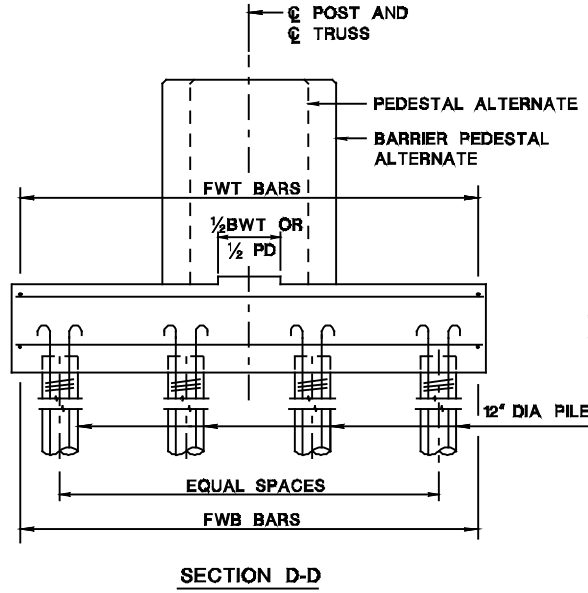
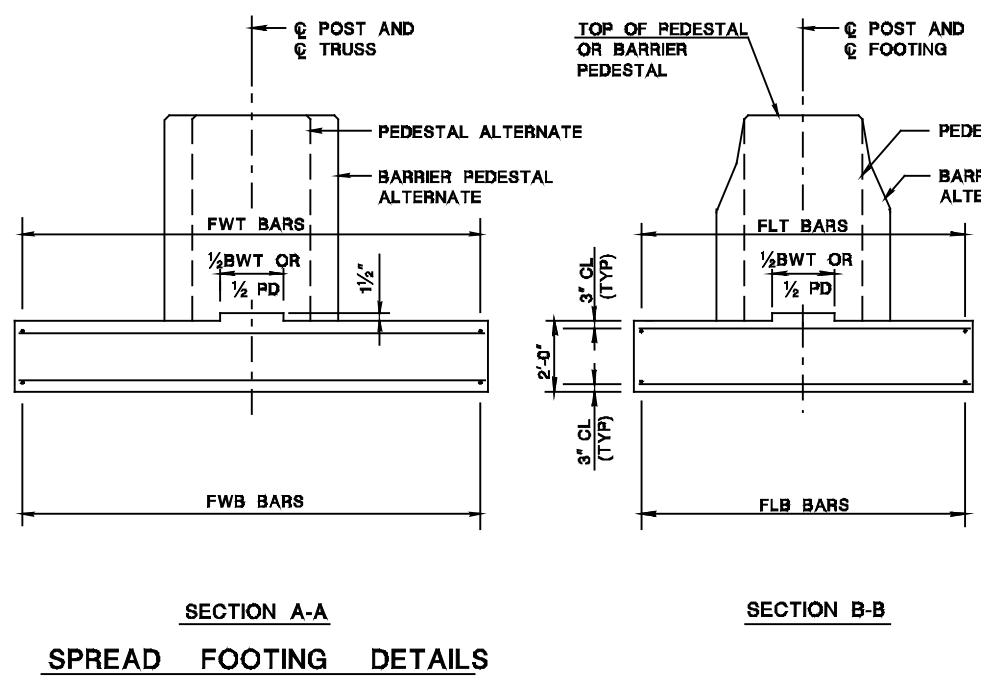
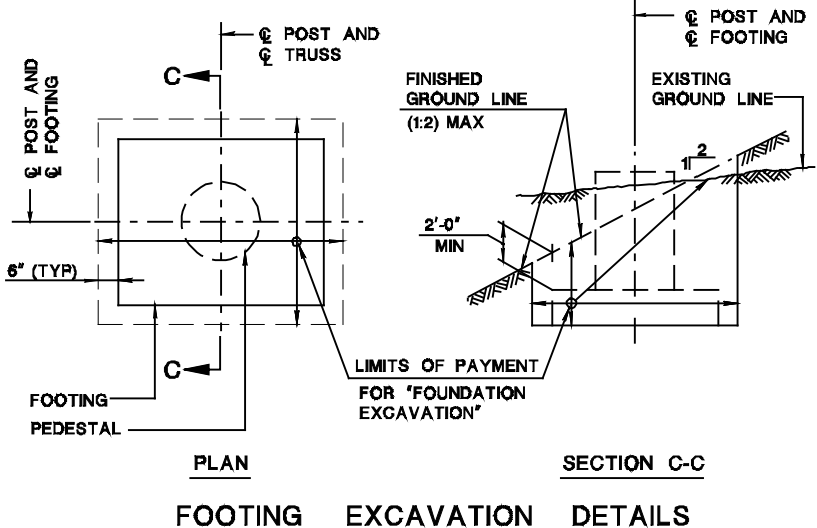
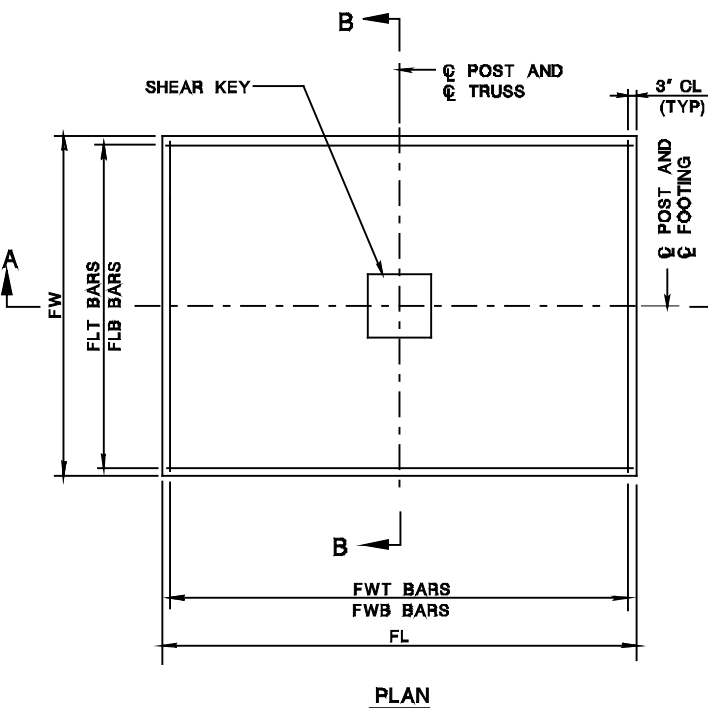
SPREAD FOOTINGS			PILE FOOTINGS				FOOTING REINFORCEMENT					
SIZE FLxFW	CONCRETE VOLUME	EXCAV VOLUME	CONCRETE VOLUME	EXCAV VOLUME	No. OF PILES IN ROW	TOTAL	No. AND SIZE OF BARS				TOTAL WEIGHT	
	(C.Y.)	(C.Y.)	(C.Y.)	(C.Y.)	"X" LONG	"Y" TRANS	No.	FLB	FWB	FLT	FWT	(LBS)
11'-6"X8'	6.8	33.3	8.5	35.4	4	3	12	10-#16	8-#16	8-#16	8-#16	317.5
12'-6"X8'	7.4	36.0	9.3	38.2	4	3	12	13-#16	9-#16	8-#16	9-#16	385.2
13'X8'	7.7	37.3	9.6	39.6	4	3	12	10-#19	9-#16	8-#19	9-#16	455.3
13'X9'	8.7	41.5	10.8	44.1	4	3	12	12-#19	9-#16	7-#19	9-#16	528.2
14'X9'	9.3	44.4	11.7	47.2	4	3	12	14-#19	10-#16	7-#19	10-#16	610.7
14'X10'	10.4	48.9	13.0	51.9	4	3	12	15-#19	10-#16	7-#19	10-#16	648.4
15'X10'	11.1	52.1	13.9	55.8	4	3	12	17-#19	11-#16	7-#19	11-#16	738.6
15'X10'-6"	11.7	54.5	14.6	57.9	4	4	16	19-#19	14-#16	8-#19	11-#16	854.7
15'-6"X10'-6"	12.1	56.2	15.1	59.7	4	4	16	15-#22	11-#19	8-#22	11-#19	1,056.7
16'-6"X10'-6"	12.8	59.6	15.3	63.3	4	4	16	17-#22	12-#19	8-#22	12-#19	1,194.0
16'-6"X11'-6"	14.1	64.8	17.6	68.8	4	4	16	19-#22	13-#19	8-#22	12-#19	1,306.0
17'X11'-6"	14.5	66.7	18.1	70.8	4	4	16	17-#25	13-#19	8-#25	12-#19	1,546.5
17'X12'-6"	15.7	72.0	19.7	76.5	4	4	16	18-#25	15-#19	9-#25	12-#19	1,703.5
18'X12'-6"	16.7	76.0	20.8	80.7	4	4	16	20-#25	15-#19	9-#25	13-#19	1,875.3
18'X13'	17.3	78.8	21.7	83.7	4	4	16	20-#25	17-#19	9-#25	13-#19	1,948.2
19'X13'	18.3	83.0	22.9	88.1	5	4	20	22-#25	17-#19	9-#25	13-#19	2,110.7

* SPREAD FOOTING EXCAVATION VOLUME BASED ON 8'-0" TOTAL DEPTH OF EXCAVATION.

** PILE FOOTING EXCAVATION VOLUME BASED ON 8'-6" TOTAL DEPTH OF EXCAVATION.

LEGEND:

- FL : FOOTING LENGTH
- FW : FOOTING WIDTH
- FLB : No. AND SIZE OF BOTTOM BARS IN DIRECTION FL
- FWB : No. AND SIZE OF BOTTOM BARS IN DIRECTION FW
- FLT : No. AND SIZE OF TOP BARS IN DIRECTION FL
- FWT : No. AND SIZE OF TOP BARS IN DIRECTION FW
- PD : PEDESTAL DIAMETER
- BWT : BARRIER WIDTH AT TOP



- NOTES:**
- FOUNDATION DESIGN CONFORMS TO THE 2001 AASHTO STANDARD SPECIFICATIONS FOR STRUCTURAL SUPPORTS FOR HIGHWAY SIGNS, LUMINAIRES AND TRAFFIC SIGNALS, SECTION 13.
 - FOR FOOTING DIMENSIONS, SEE DESIGN TABLES ON SIGN STRUCTURE DRG. CA-G3.
 - BARS SHALL NOT BE SPLICED EXCEPT AS PROVIDED ON THIS DRAWING OR AUTHORIZED BY THE RE. WHEN SPLICING IS APPROVED, THE REINFORCEMENT BARS SHALL BE LAPPED FOR A LENGTH OF AT LEAST 36 DIAMETERS AND SHALL BE SECURELY WIRED TOGETHER.
 - PILES SHALL BE CAST-IN-PLACE CONCRETE PILES WITH A MINIMUM BEARING CAPACITY EQUAL TO 50 KSI.
 - THE CASING OF THE CAST-IN-PLACE CONCRETE PILES SHALL BE LEFT IN PLACE AND SHALL BE DESIGNED TO RESIST BOTH DIRECT COMPRESSION AND BENDING. THE THICKNESS OF THE CASING SHALL BE NOT LESS THAN 3/8\".
 - THE LONGITUDINAL REINFORCING STEEL OF THE CAST-IN-PLACE CONCRETE PILES SHALL BE A MINIMUM OF 6-#16 BARS AND SHALL EXTEND THROUGH THE UPPER THIRD OF THE PILE OR 15'-0\".
 - THE SPIRAL REINFORCING FOR THE CAST-IN-PLACE CONCRETE PILES SHALL BE #13 BARS AND SHALL EXTEND THROUGH THE UPPER THIRD OF THE PILE OR 15'-0\".
 - ALTERNATE FOUNDATION DESIGNS MAY BE CONSIDERED BY THE DESIGNER WHERE APPROPRIATE. LOADS FOR THE DESIGN OF NON-STANDARD FOUNDATIONS ARE AVAILABLE IN THE NJDOT BRIDGES AND STRUCTURES DESIGN MANUAL.

THIS PLATE FOR DESIGN INFORMATION ONLY. DO NOT INCLUDE IN CONTRACT PLANS.

SIGN STRUCTURE DRG. CA-G5

NEW JERSEY DEPARTMENT OF TRANSPORTATION
BUREAU OF STRUCTURAL ENGINEERING

CANTILEVER SIGN SUPPORT STANDARDS

FOOTING DESIGN TABLES AND DETAILS

SCALE : NONE 5

BRIDGE SHEET NO. OF 5

BD-0719-03 - ORIGINAL SHEET