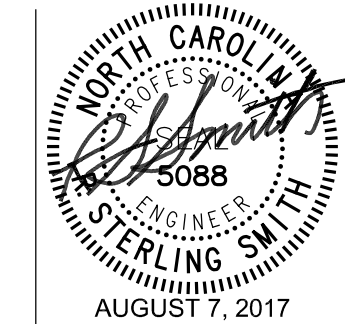


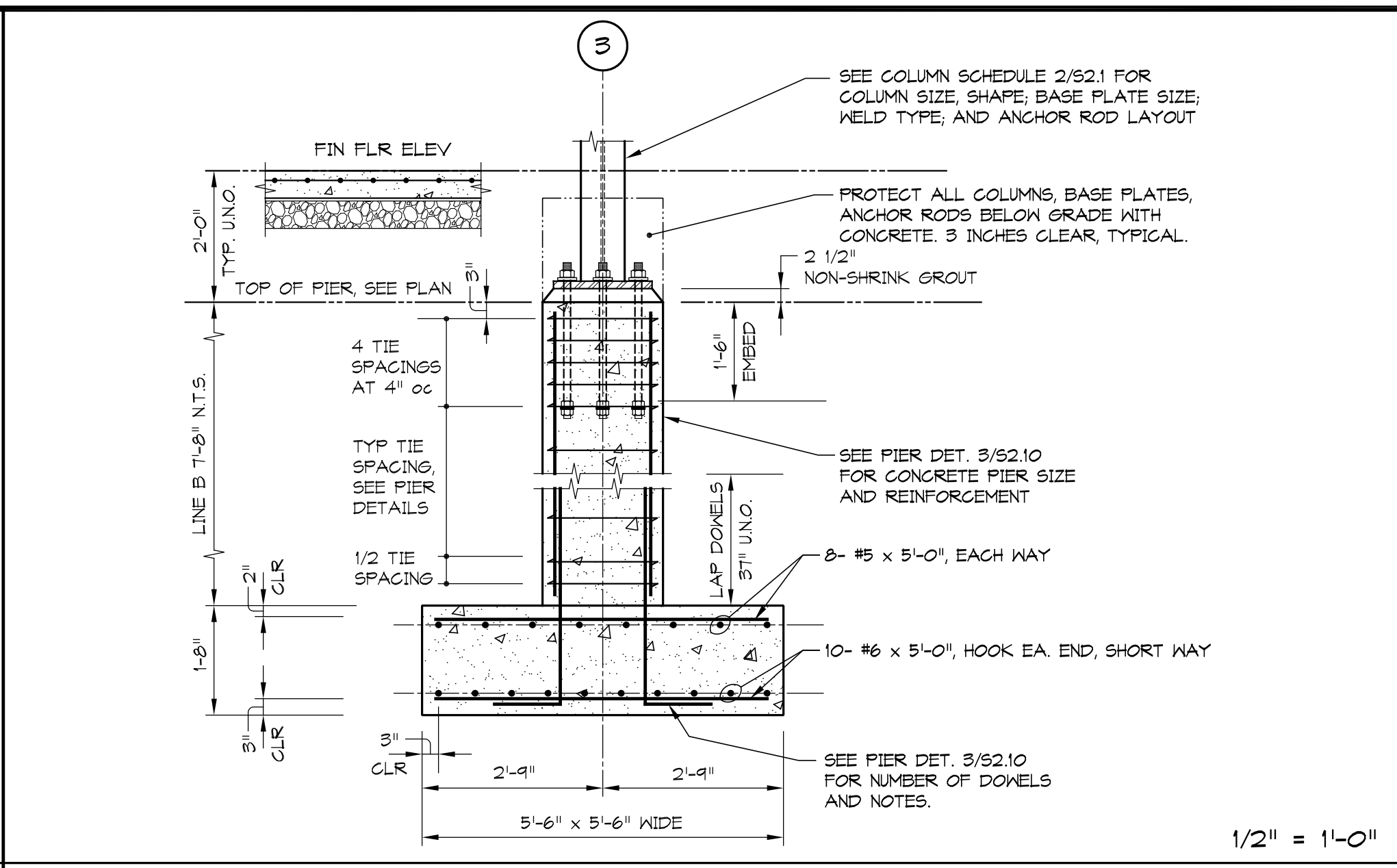
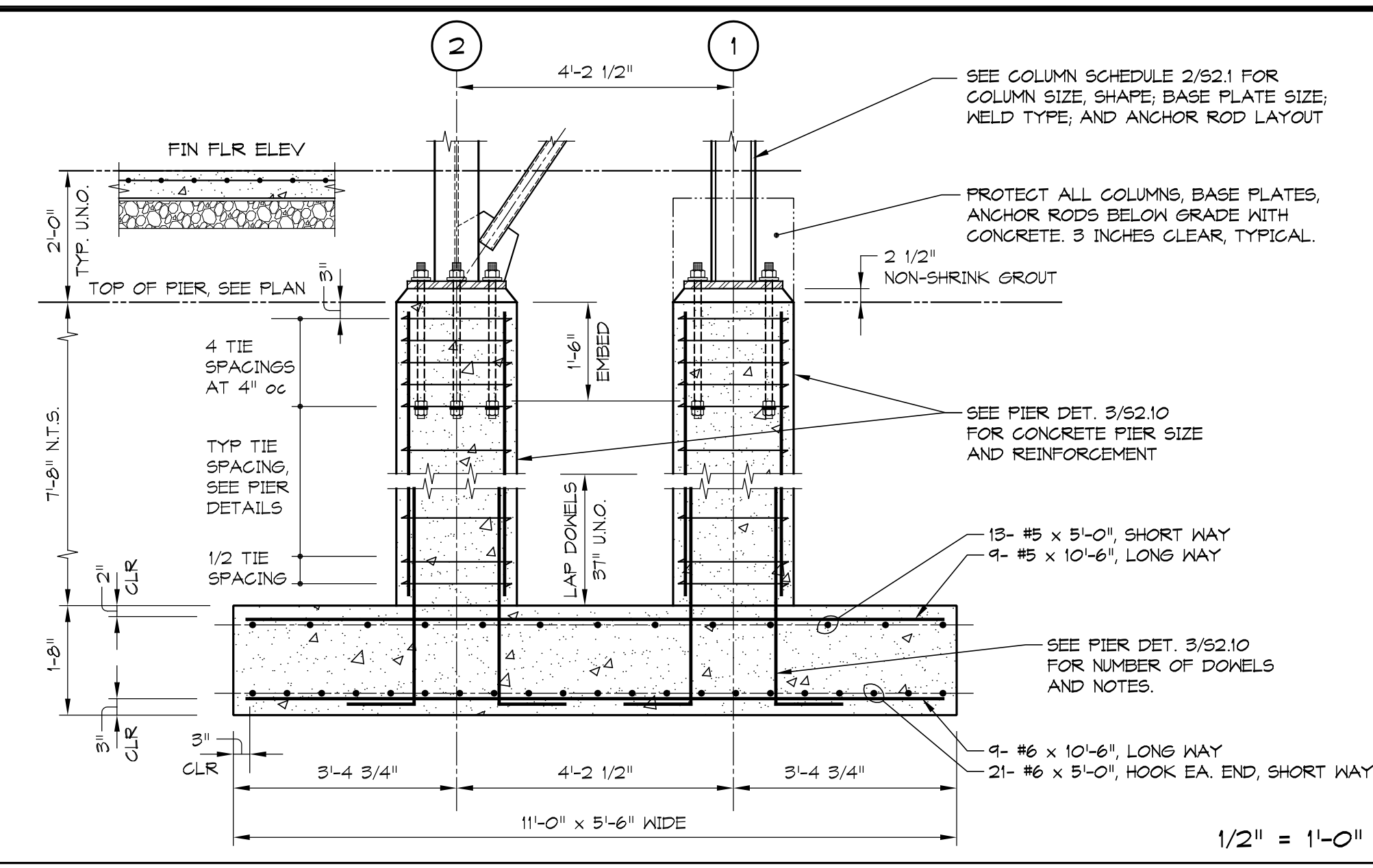


**COLUMN SCHEDULE
FOUNDATION
SECTION &
DETAILS**

**CLEMMONS FIRST
BAPTIST CHURCH
NARTHEX ADDITION**

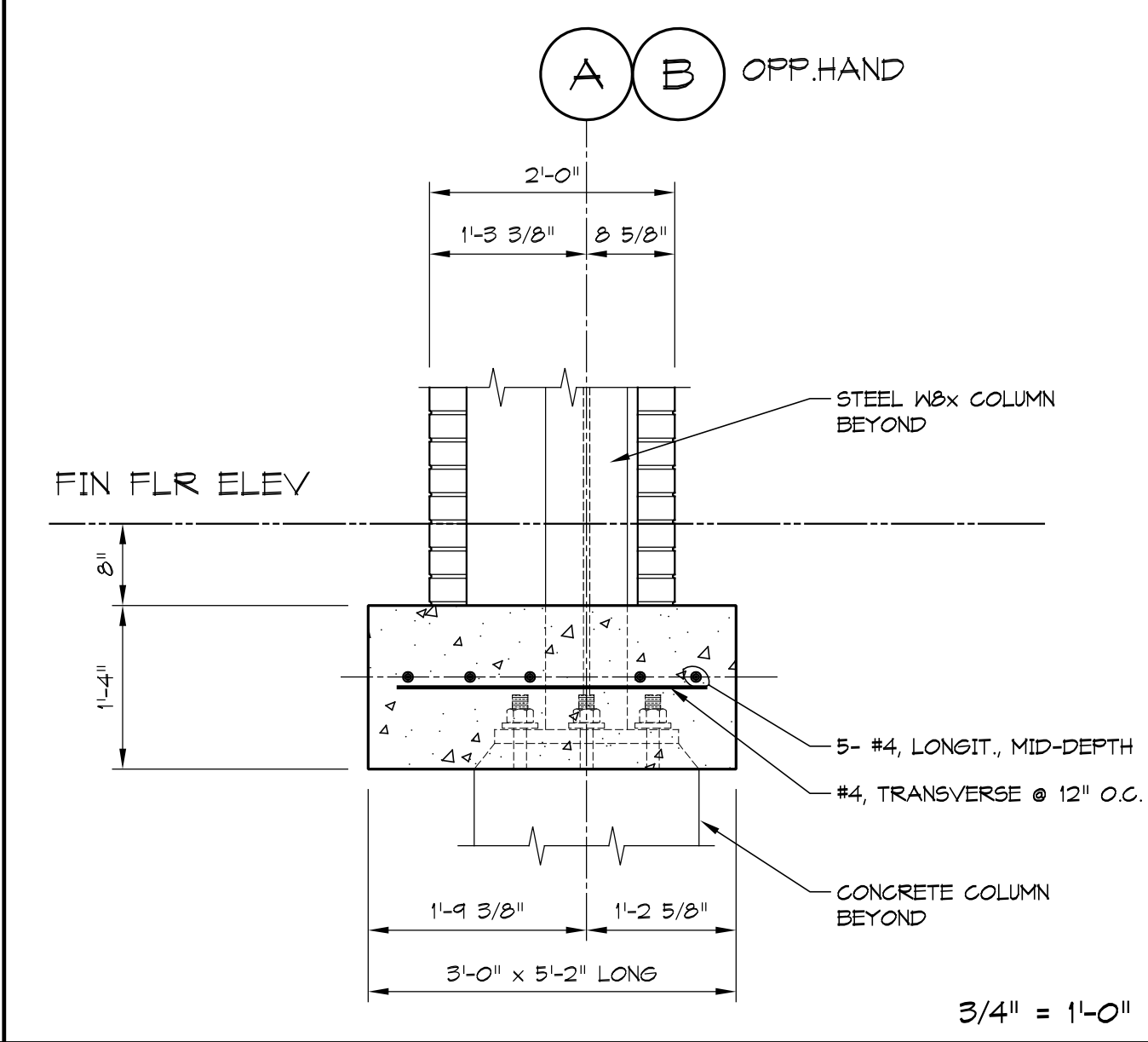
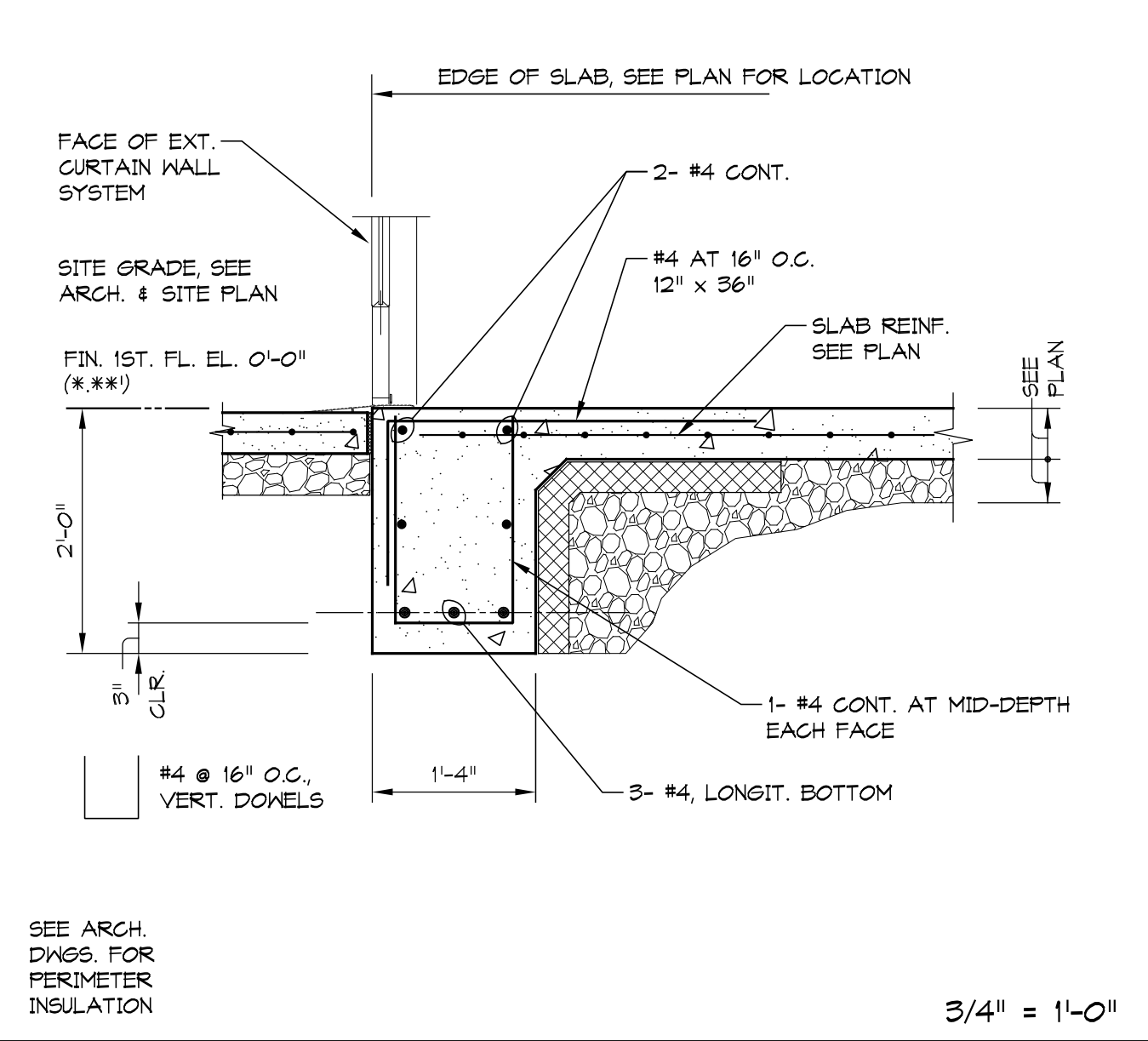


AUGUST 7, 2017



6 COMBINED FOOTING DETAIL GRID LINES A-3, B-3

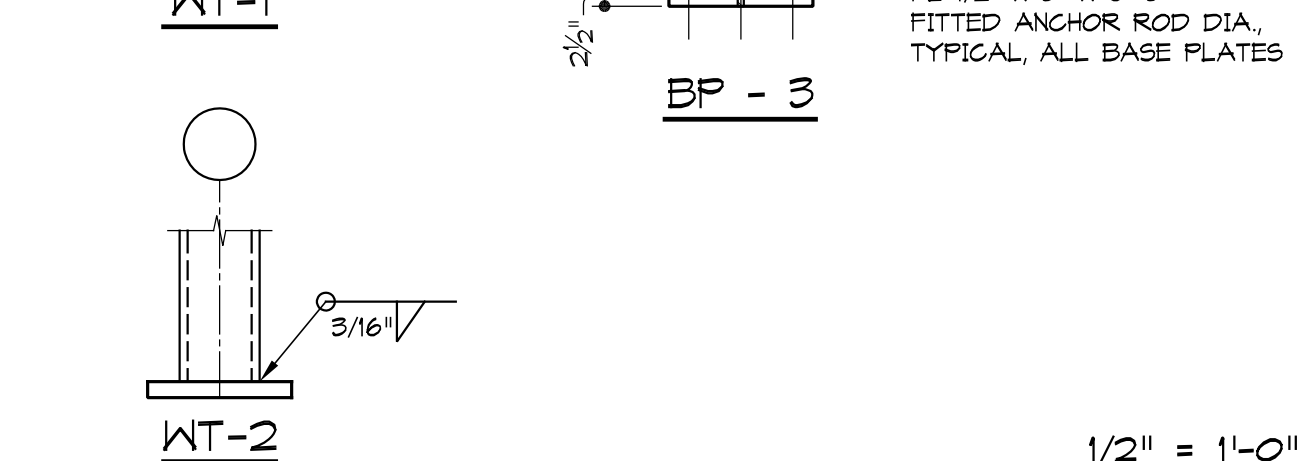
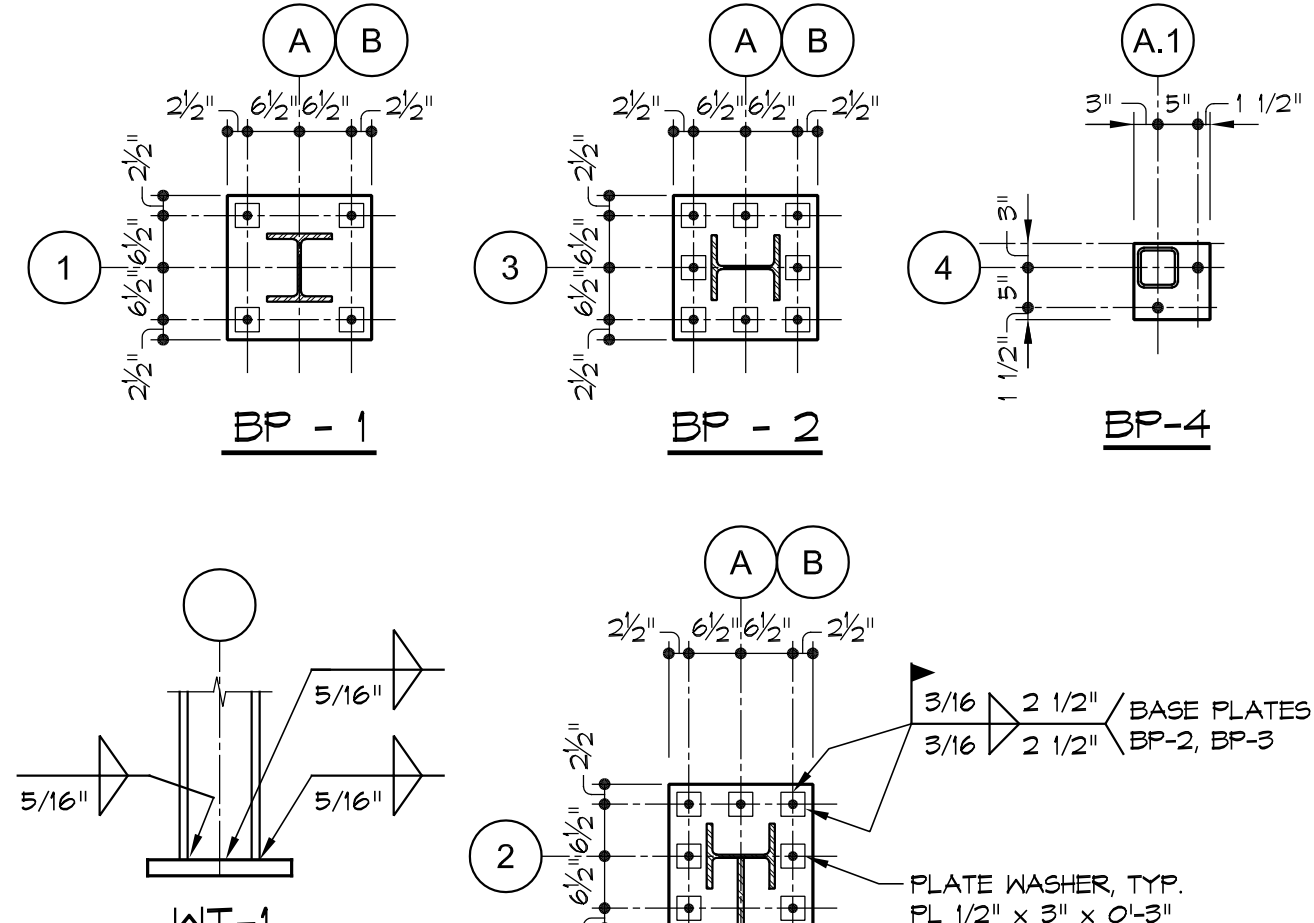
1 COMBINED FOOTING DETAIL ALONG LINES A, B



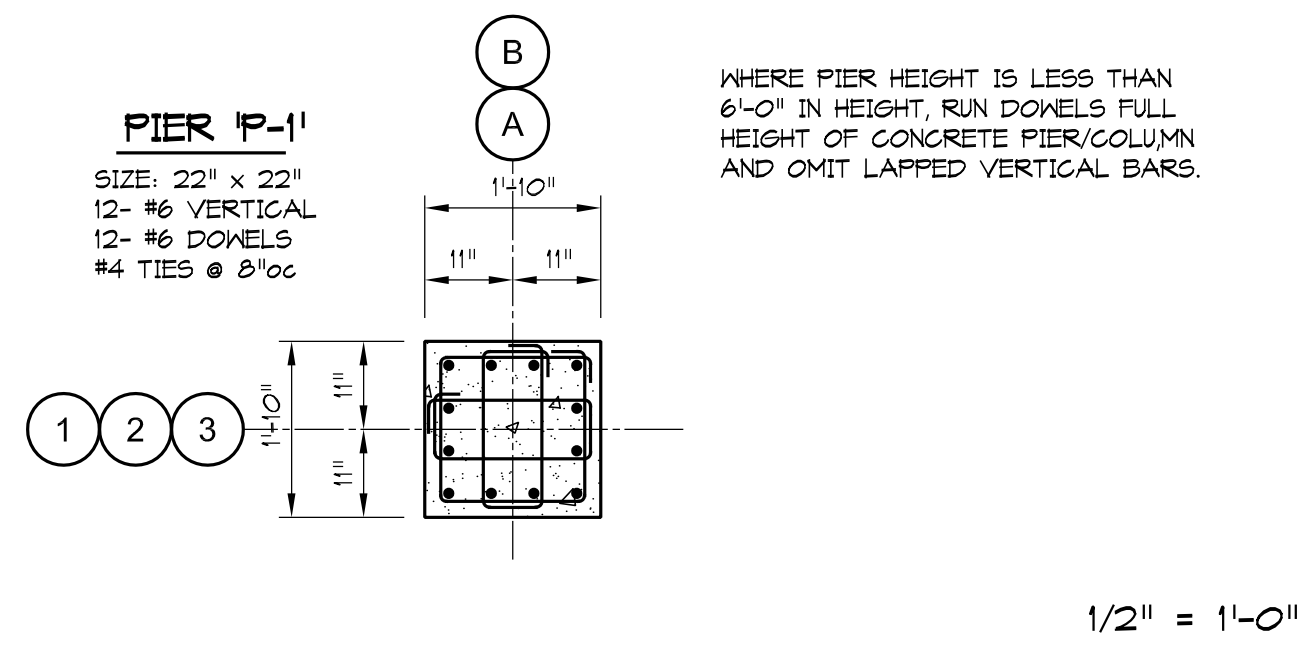
7 FOOTING AT ENTRY

4 SECTION AT ENTRY, THICKENED FLOOR SLAB

MARK	SECTION	BASE PLATE, ASTM A36, GRADE 36 KSI		ANCHOR RODS ASTM F1554 GRADE 36	
		TYPE	WELD		SIZE
C-1	W8 x 35	BP-1	WT-1	PL 1 3/8" x 18" x 1'-6"	4 - 1 1/8" Ø
C-2	W8 x 48	BP-2	WT-1	PL 1 3/8" x 18" x 1'-6"	8 - 1 1/8" Ø
C-3	W8 x 48	BP-3	WT-1	PL 1 3/8" x 18" x 1'-6"	7 - 1 1/8" Ø
C-4	H65.5 x 5 x 1/4	BP-4	WT-2	PL 1/2" x 9 1/2" x 0'-9 1/2"	2 - 3/4" Ø EB



2 COLUMN SCHEDULE & BASE PLATE DETAILS

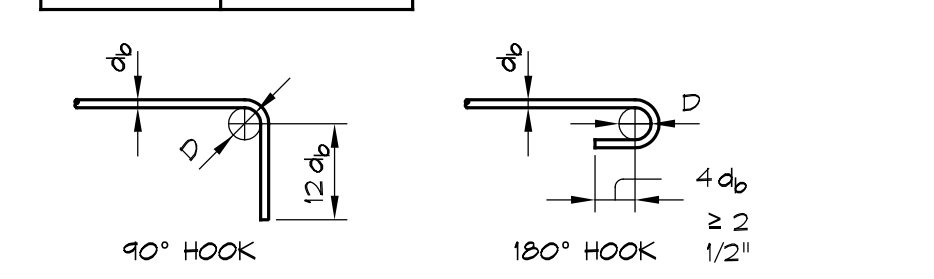


3 CONCRETE PIER PLAN DETAIL

STANDARD HOOKS, PRIMARY REINFORCEMENT

BAR	Min. Finished D
#3 thru #8	6d _b
#9, #10, #11	8d _b
#14, #18	10d _b

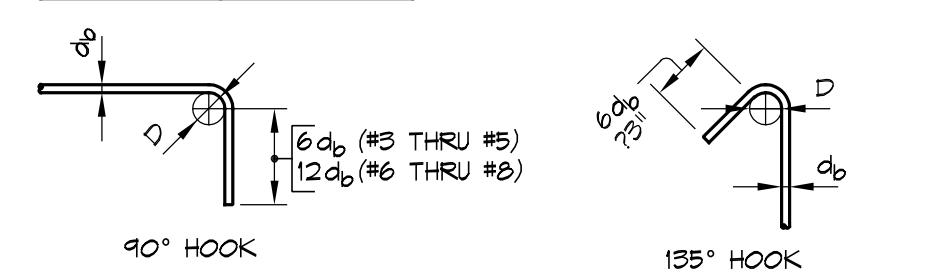
- D (Bend Dia.) MEASURED ON INSIDE OF BAR
- ALL BENDS SHALL BE MADE COLD
- #14 AND #18 BARS SHALL BE BEND-TESTED AND APPROVED PRIOR TO BENDING.



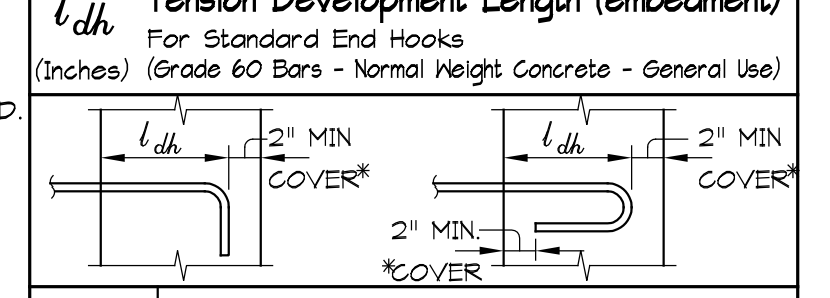
STANDARD HOOKS, STIRRUPS, TIE REINFORCEMENT

BAR	Min. Finished D
#3 thru #5	4d _b
#6 thru #8	6d _b

- D (Bend Dia.) MEASURED ON INSIDE OF BAR
- ALL BENDS SHALL BE MADE COLD
- #14 AND #18 BARS SHALL BE BEND-TESTED AND APPROVED PRIOR TO BENDING.



l_{dh} Tension Development Length (embedment)



BAR SIZE	f _c = (Normal Weight Concrete), psi			
	3,000	4,000	5,000	6,000
#3	8.2	7.1	6.4	6.0
#4	11.0	9.5	8.5	7.7
#5	13.7	11.9	10.6	9.7
#6	16.4	14.2	12.7	11.6
#7	19.2	16.6	14.8	13.6
#8	21.9	19.0	17.0	15.5
#9	24.7	21.4	19.1	17.5
#10	27.8	24.1	21.6	19.7
#11	30.9	26.8	23.9	21.8

(*) WHEN EITHER SIDE OR END COVER IS SMALLER THAN THE MINIMUM NUMBERS, MULTIPLY l_{dh} BY 1.4.

l_d Tension Development Length (embedment)

BAR SIZE	f _c = (Normal Weight Concrete), psi					
	3,000		4,000		5,000	
	TOP	BOTT	TOP	BOTT	TOP	BOTT
#3	21.4	16.4	18.5	14.2	16.5	12.7
#4	28.5	21.9	24.7	19.0	22.1	17.0
#5	35.6	27.4	30.8	23.7	27.6	21.2
#6	42.7	32.9	37.0	28.5	33.1	25.5
#7	62.3	47.9	54.0	41.5	48.3	37.1
#8	71.2	54.8	61.7	47.4	55.2	42.4
#9	80.3	61.8	69.6	53.5	62.2	47.9
#10	90.4	69.6	78.3	60.2	70.0	53.9
#11	100.4	77.2	86.9	66.9	77.8	59.8

- CLEAR SPACING OF BARS BEING DEVELOPED OR SPLICED NOT LESS THAN 2x BAR DIA. AND CLEAR COVER NOT LESS THAN THE BAR DIAMETER.
- *TOP* BARS ARE HORIZONTAL REBARS WITH MORE THAN 12 INCHES OF FRESH CONCRETE CAST BELOW THE BARS AT THE DEVELOPMENT LENGTH.
- FOR LIGHT-WEIGHT CONCRETE, MULTIPLY THE TABULATED VALUES BY 1.3.

1.3 l_d TENSION LAP SPLICES

BAR SIZE	f _c = (Normal Weight Concrete), psi					
	3,000		4,000		5,000	
	TOP	BOTT	TOP	BOTT	TOP	BOTT
#3	27.8	21.4	24.0	18.5	21.5	16.5
#4	37.0	28.5	32.1	24.7	28.7	22.1
#5	46.3	35.6	40.1	30.8	35.9	27.6
#6	55.5	42.7	48.1	37.0	43.0	33.1
#7	81.0	62.3	70.1	54.0	62.7	48.3
#8	92.6	71.2	80.2	61.7	71.7	55.2
#9	104.4	80.3	90.4	69.6	80.9	62.2
#10	117.6	90.4	101.8	78.3	91.1	70.0
#11	130.5	100.4	113.0	86.9	101.1	77.8

FOR CLASS 'A' SPLICE (PERMITTED ONLY WHEN NOT MORE THAN HALF THE BARS SPLICED AND SPLICES STAGGERED BY THE DISTANCE OF SPLICE LENGTH), USE SAME AS 'l_d' = TENSION DEVELOPMENT LENGTH TABLE.

l_c COMPRES. DEVELOP. LENGTH

BAR SIZE	f _c = (Normal Weight Concrete), psi		
	3,000	4,000	5,000
#3	8.2	8.0	8.0
#4	11.0	9.5	9.0
#5	13.7	11.9	11.3
#6	16.4	14.2	13.5
#7	19.2	16.6	15.8
#8	21.9	19.0	18.0
#9	24.7	21.4	20.3
#10	27.8	24.1	22.9
#11	30.9	26.8	25.4
#14	37.1	32.1	30.5
#18	44.4	42.8	40.6

15

DETAILS OF REINFORCEMENT

3