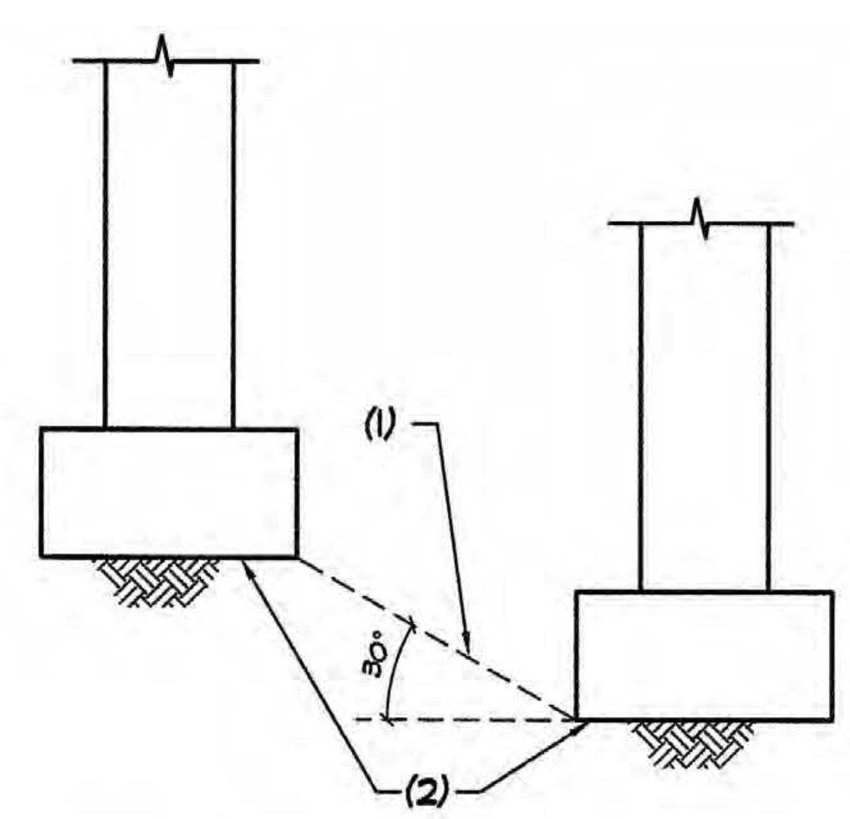
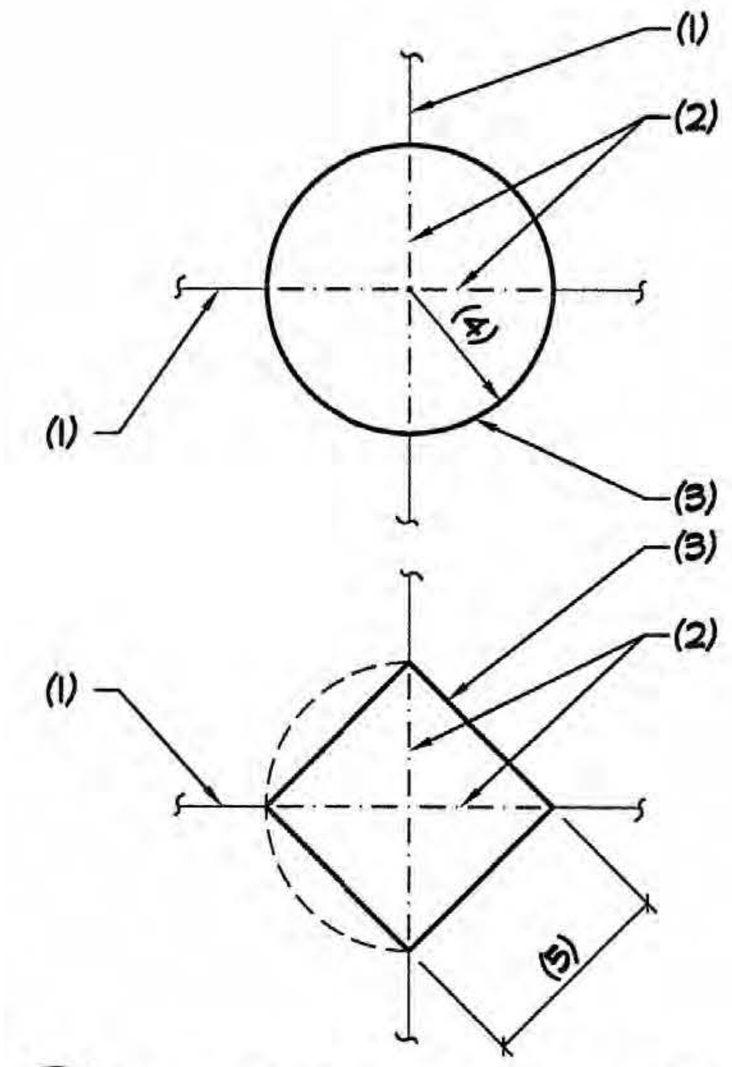
NOTES:

1. MAXIMUM SLOPE BETWEEN BOTTOM OF FOOTINGS SHALL BE 30 DEGREES. STEP FOOTINGS AS REQUIRED - SEE TYPICAL DETAIL.
2. BOTTOM OF CONCRETE FOOTING.



NOTE:
FOR ADDITIONAL INFORMATION, SEE PLANS AND DETAILS.

11 MAXIMUM SLOPE BETWEEN ADJACENT FOOTING
NO SCALE



NOTES:

1. "CONC. C.J." WHERE SHOWN ON PLAN.
2. CENTERLINE OF COLUMN.
3. KEYED JOINT - SEE TYPICAL THICKENED SLAB AT CONCRETE CLOSURE POUR DETAIL.
4. RADIUS 1'-6" MIN. / 3'-0" MAX.
5. 2'-0" MIN. / 4'-0" MAX.

NOTE:
FOR CLARITY, COLUMNS OMITTED. FOR CONFIGURATION OF SPECIFIC CLOSURE POURS, SEE PLAN.

07 TYPICAL COLUMN CLOSURE POUR AT CONCRETE SLAB ON GRADE
NO SCALE

CONC. PSI	CLASS B TENSION SPLICE LENGTHS												COMP. BARS	
	f'c = 2,500 PSI/ f'c = 3,000 PSI				f'c = 4,000 PSI				f'c = 5,000 PSI				f'c = ALL	
BAR LOCATION	REGULAR CLASS		TOP CLASS		REGULAR CLASS		TOP CLASS		REGULAR CLASS		TOP CLASS		STD. LAP	ENCLOSED W/ SPIRAL TIES
SIZE \ SPACING	>3db	≥6db	>3db	≥6db	>3db	≥6db	>3db	≥6db	>3db	≥6db	>3db	≥6db		
#3	16"	16"	21"	21"	16"	16"	18"	18"	16"	16"	16"	16"	12"	12"
#4	22"	22"	28"	28"	19"	19"	24"	24"	17"	17"	22"	22"	15"	12"
#5	27"	27"	35"	35"	23"	23"	30"	30"	21"	21"	27"	27"	19"	14"
#6	35"	32"	46"	42"	31"	28"	40"	36"	27"	25"	36"	33"	23"	17"
#7	48"	38"	63"	49"	42"	33"	54"	42"	37"	29"	48"	38"	26"	20"
#8	63"	43"	82"	56"	55"	37"	71"	48"	49"	33"	64"	43"	30"	23"
#9	80"	48"	104"	63"	69"	42"	90"	55"	62"	38"	81"	49"	34"	25"
#10	102"	58"	132"	76"	88"	50"	114"	65"	79"	45"	102"	59"	38"	29"
#11	125"	71"	162"	93"	108"	62"	140"	80"	97"	55"	126"	72"	42"	32"

NOTES:

1. TOP BARS ARE ANY HORIZONTAL BARS PLACED SO THAT MORE THAN 12" OF FRESH CONCRETE IS CAST IN THE MEMBER BELOW THE REINFORCEMENT.
2. UNLESS NOTED OTHERWISE, LAP SPLICES IN CONCRETE BEAMS, SLABS, AND WALLS SHALL BE CLASS "B" TENSION LAP SPLICES & LAP SPLICES IN CONCRETE COLUMNS SHALL COMPRESSION LAP SPLICES.
3. CONTACT STRUCTURAL ENGINEER IF CENTER TO CENTER SPACING OF REINFORCING IS LESS THAN OR EQUAL TO 3 BAR DIAMETERS (3db).

04 LAP SCHEDULE FOR REINFORCING STEEL
NO SCALE

BOLT DIAMETER	VERT BOLT EMBEDMENT LENGTH	HORIZ BOLT EMBEDMENT LENGTH	HEADED STUD FILLET WELD SIZE, "S".
1/2"	6"	4"	1/4"
5/8"	6"	4"	5/16"
3/4"	7"	5"	5/16"
7/8"	8"	6"	5/16"
1"	9"	7"	3/8"
1 1/8"	10"	8"	-----
1 1/4"	11"	9"	-----

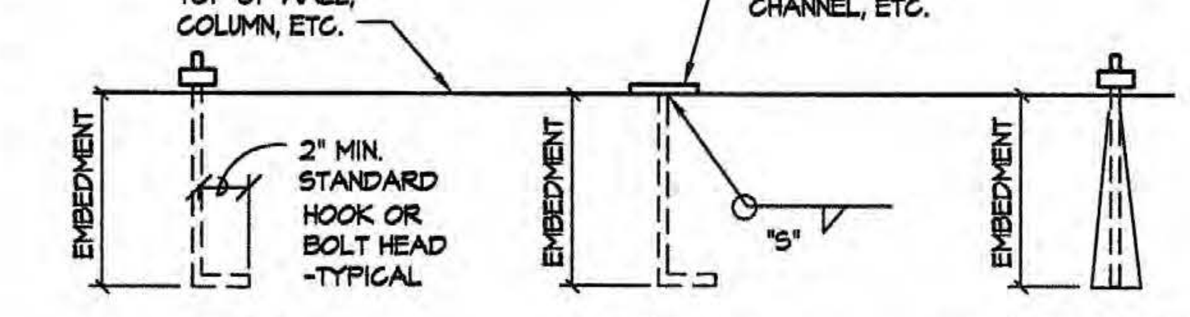
NOTES:

PROVIDE ANCHORS, ANCHOR BOLTS AND EXPANSION BOLTS PER THIS SCHEDULE UNLESS NOTED ON PLANS OR DETAILS.

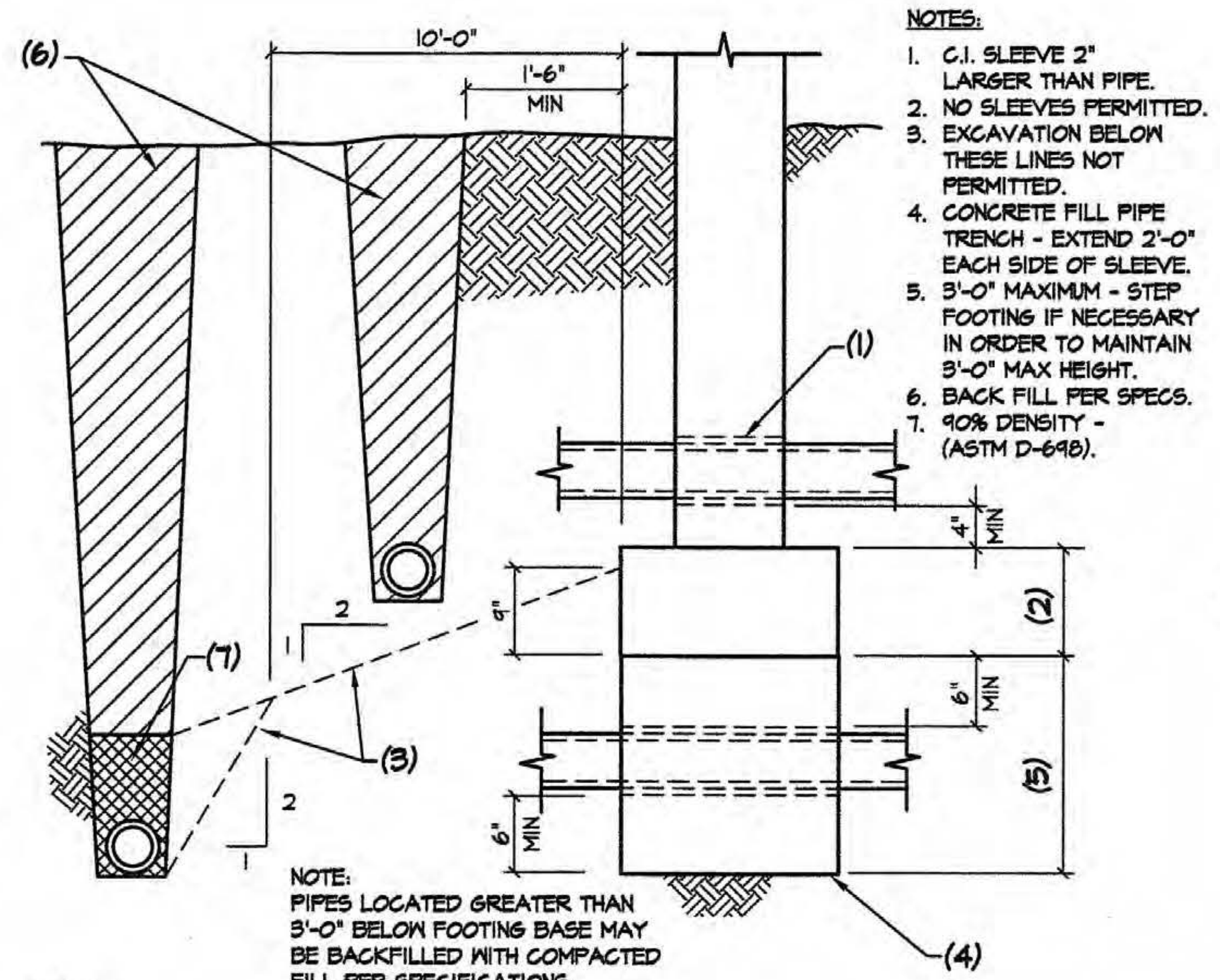
EXPANSION OR ADHESIVE BOLTS USED IN MASONRY SHALL HAVE I.C.B.O. APPROVAL IN MASONRY.

AT "ANCHORS" USE 3/16" FILLET WELD("S").

THICKNESS OF DRYPACK DOES NOT APPLY TOWARDS EMBEDMENT.



01 TYPICAL ANCHOR, ANCHOR BOLT, AND EXPANSION BOLT SCHEDULE
NO SCALE

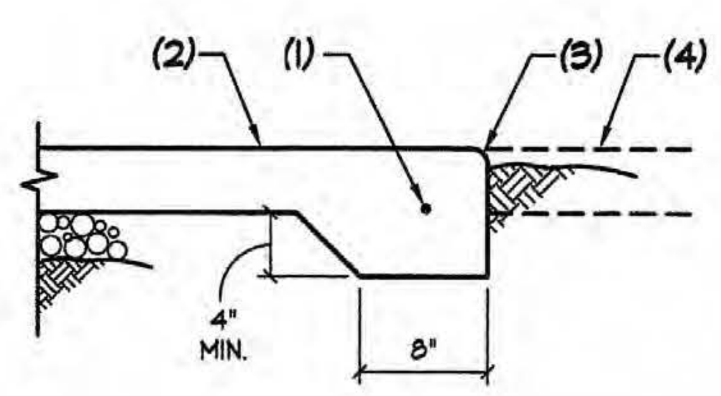


NOTES:

1. C.I. SLEEVE 2" LARGER THAN PIPE.
2. NO SLEEVES PERMITTED.
3. EXCAVATION BELOW THESE LINES NOT PERMITTED.
4. CONCRETE FILL PIPE TRENCH - EXTEND 2'-0" EACH SIDE OF SLEEVE.
5. 3'-0" MAXIMUM - STEP FOOTING IF NECESSARY IN ORDER TO MAINTAIN 3'-0" MAX HEIGHT.
6. BACK FILL PER SPECS.
7. 90% DENSITY - (ASTM D-698).

NOTE:
PIPES LOCATED GREATER THAN 3'-0" BELOW FOOTING BASE MAY BE BACKFILLED WITH COMPACTED FILL PER SPECIFICATIONS

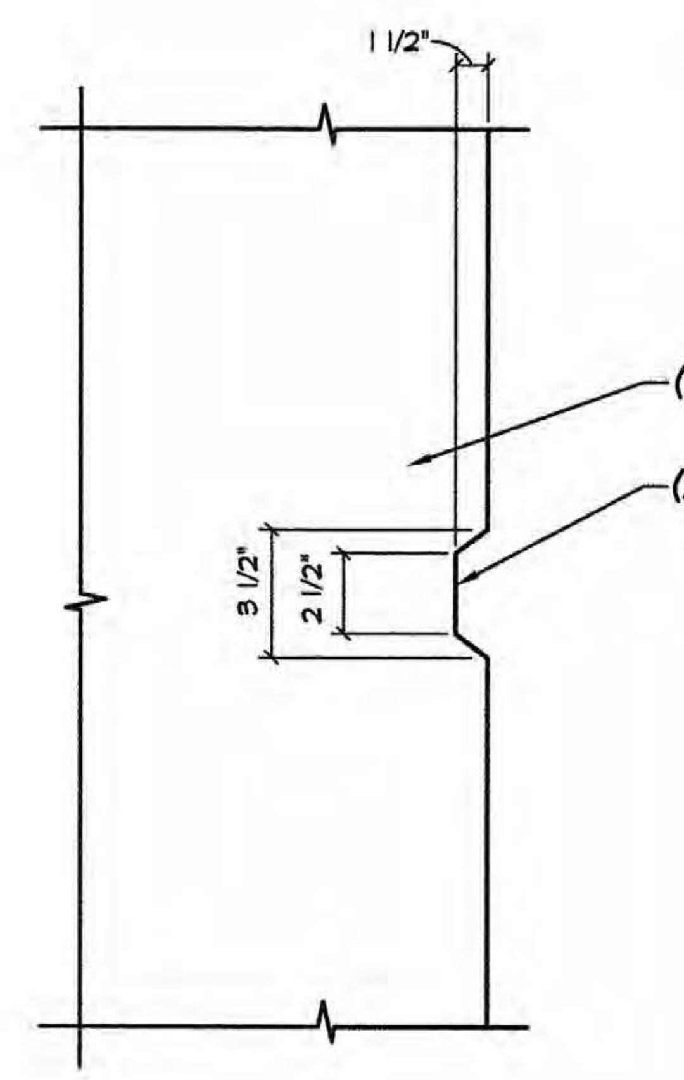
12 PIPE THROUGH FOOTING AND TRENCH
NO SCALE



NOTES:

1. 1 - #4 CONT.
2. CONCRETE SLAB ON GRADE.
3. TOOLED EDGE.
4. CONCRETE SLAB ON GRADE OR FINISHED GRADE AS OCCURS.

08 CONCRETE TURNDOWN AT SIDEWALK EDGE
NO SCALE

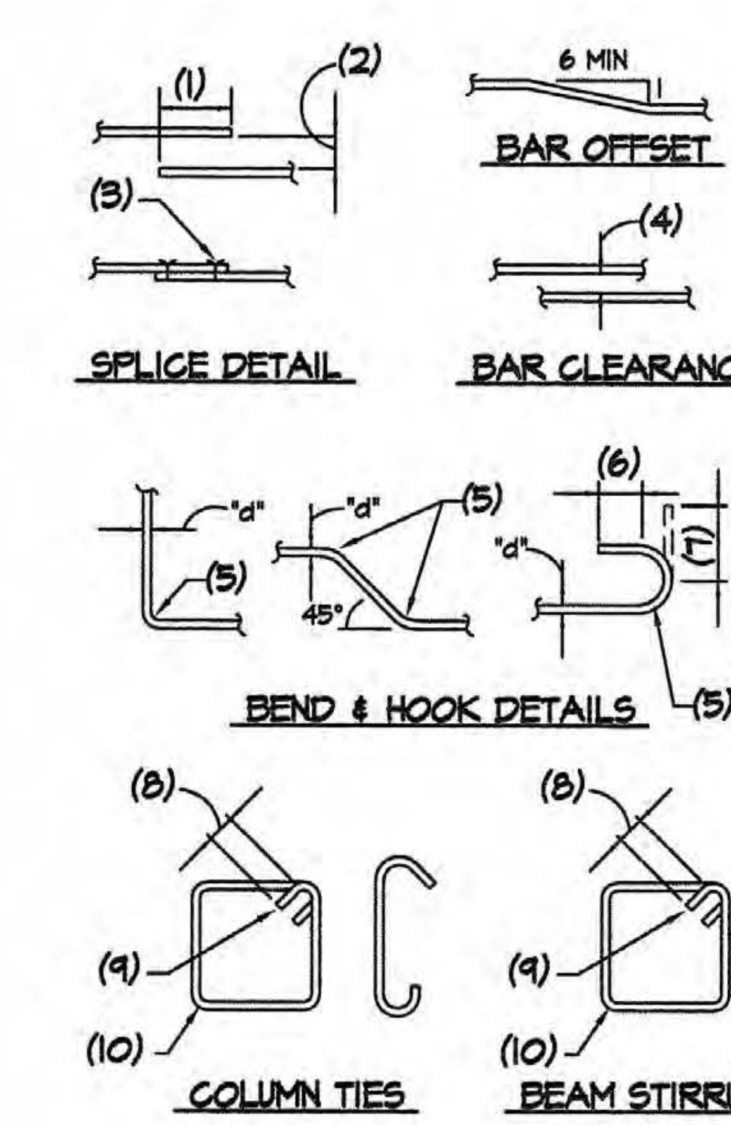


NOTES:

1. CONCRETE.
2. KEYED JOINT - REMOVE FORM MATERIAL PRIOR TO PLACING ADJACENT CONCRETE.

NOTE:
ALL DIMENSIONS ARE ± 1/2".

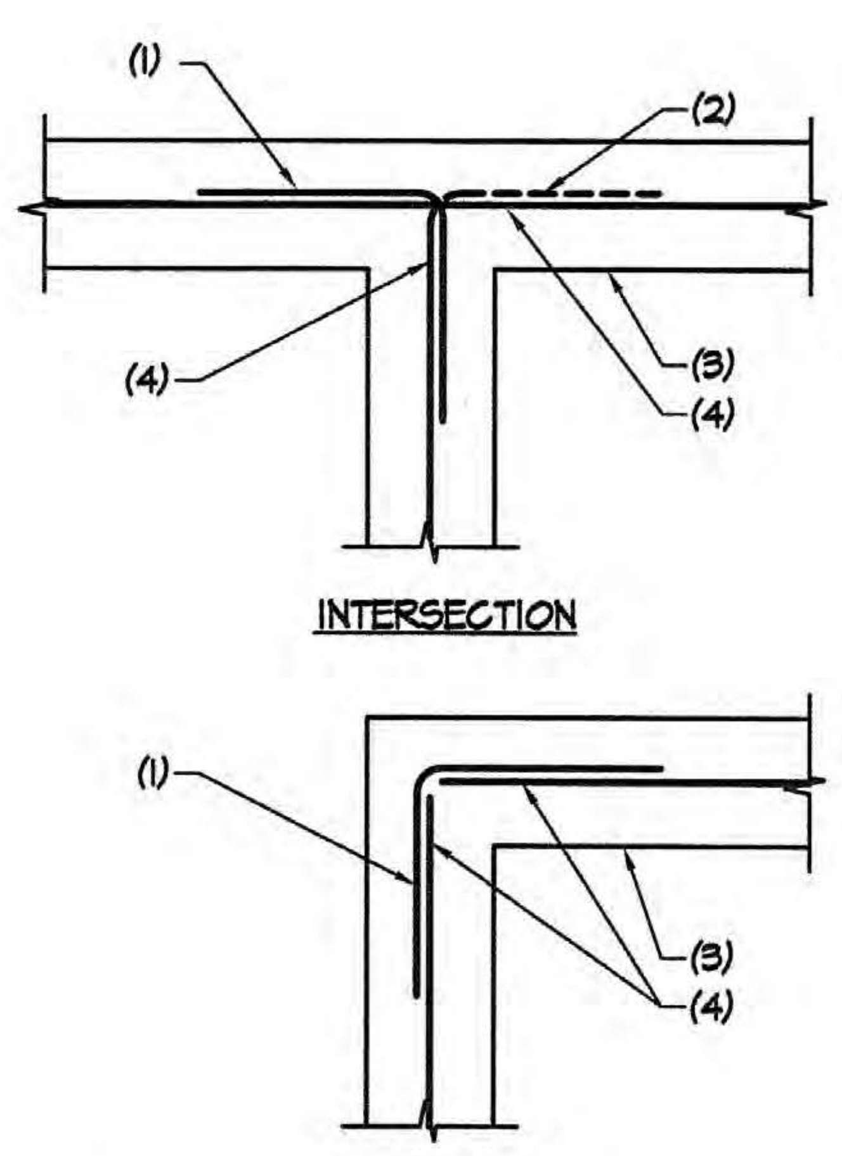
05 TYPICAL KEY IN CONCRETE
NO SCALE



NOTES:

1. LAP - SEE G.S.N.
2. MAXIMUM 1/6 LAP BUT NOT MORE THAN 6".
3. WIRE TIES.
4. ld (1" MINIMUM).
5. RADIUS=3d FOR BARS NOT OVER #8; 4d FOR #9, #10 AND #11 BARS; 5d FOR #14 AND #18 BARS. 3d FOR ALL GRADE 40 BARS WITH 180 DEGREE HOOK.
6. 4d (4" MINIMUM).
7. 12d (90 DEGREE HOOK).
8. 6d (4" MINIMUM).
9. 135 DEGREE BEND.
10. BEND AROUND 1 1/2" PIN FOR #3 BARS, BEND AROUND 2" PIN FOR #4 BARS, BEND AROUND 2 1/2" PIN FOR #5 BARS.

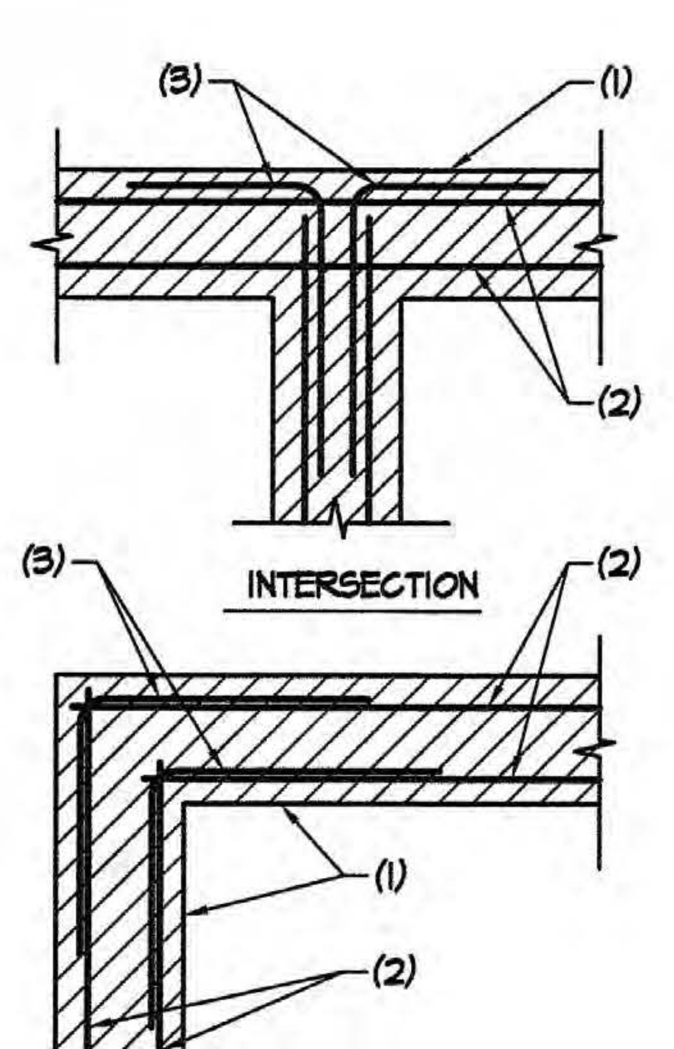
02 TYPICAL CONCRETE REINFORCING BAR DETAILS
NO SCALE



NOTES:

1. CORNER BARS SAME SIZE AND SPACING AS HORIZONTAL REINFORCING. LAP PER G.S.N. (24" MINIMUM).
2. ALTERNATE BEND.
3. CONCRETE STEM WALL OR FOOTING.
4. REINFORCING PER PLANS AND /OR G.S.N.

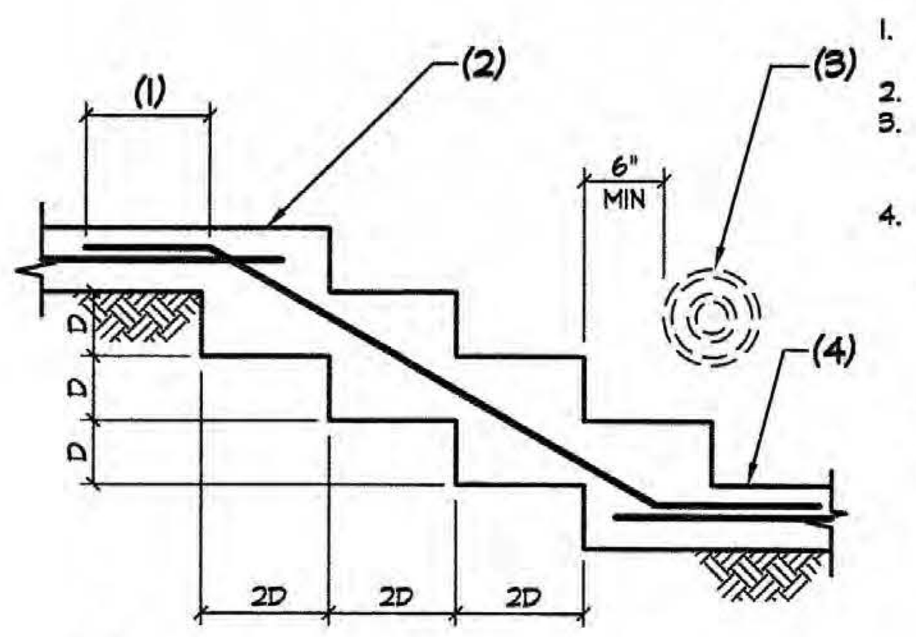
09 PLAN - CORNER REINFORCING IN CONCRETE FOOTING AND/OR STEM WALL
NO SCALE



NOTES:

1. MASONRY WALL.
2. BOND BEAM REINFORCING.
3. CORNER BARS SAME SIZE AND SPACING AS HORIZONTAL REINFORCING - LAP PER G.S.N. (24" MINIMUM).

13 MASONRY BOND BEAM AT INTERSECTING WALLS
NO SCALE



NOTES:

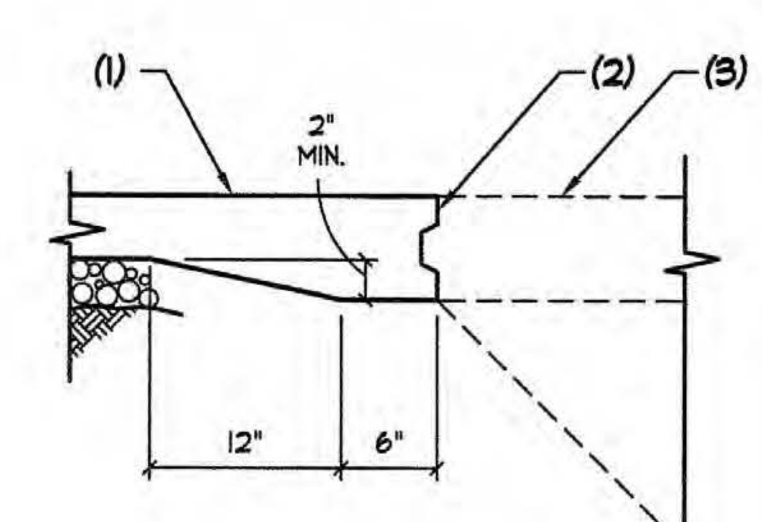
1. LAP PER G.S.N. (24" MIN.) - TYPICAL.
2. TOP OF WALL FOOTING.
3. PIPE THRU STEM WALL AS OCCURS - SEE TYPICAL DETAIL.
4. RETURN TO FOOTING THICKNESS AS SHOWN ON PLAN.

NOTE:
D = 2'-0" MAXIMUM.

10 TYPICAL STEP IN CONCRETE FOOTING
NO SCALE

NOTES:

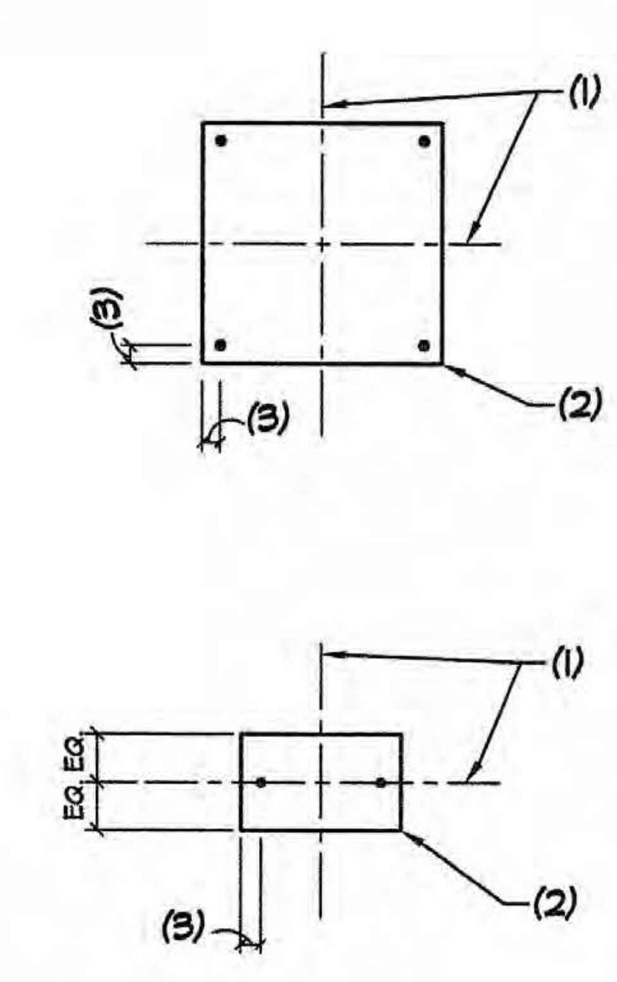
1. CONCRETE SLAB ON GRADE.
2. CONTINUOUS KEY - SEE TYPICAL KEY IN CONCRETE DETAIL.
3. LINE OF CONCRETE CLOSURE POUR OR SLAB AS OCCURS.



06 TYPICAL THICKENED SLAB AT CONCRETE CLOSURE POUR
NO SCALE

NOTES:

1. CENTERLINE OF COLUMN AND STEEL BASE PLATE.
2. STEEL BASE PLATE.
3. 1 1/4" MINIMUM OR PER AISC TABLE J3.5.

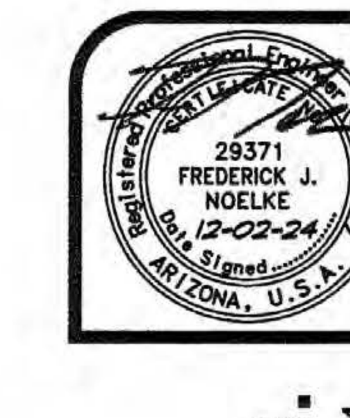


NOTE:
COLUMN OMITTED FOR CLARITY. FOR COLUMN TYPE, SIZE AND BASE PLATE AND ANCHOR BOLTS, SEE SCHEDULE.

03 PLAN VIEW - TYPICAL STEEL COLUMN BASE PLATE
NO SCALE

2525 E. Arizona Biltmore Cir. Suite D240
Phoenix, AZ 85016
Phone 602.955.9200
Email dd@bakkumnoelke.com

[bn] bakkum noelke consulting structural engineers



winton architects, inc.
1435 E. Rancho Drive
Phoenix, Az. 85014
(602) 230-9778
wintonarch@gmail.com

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date	12/02/24

revisions

S1.3