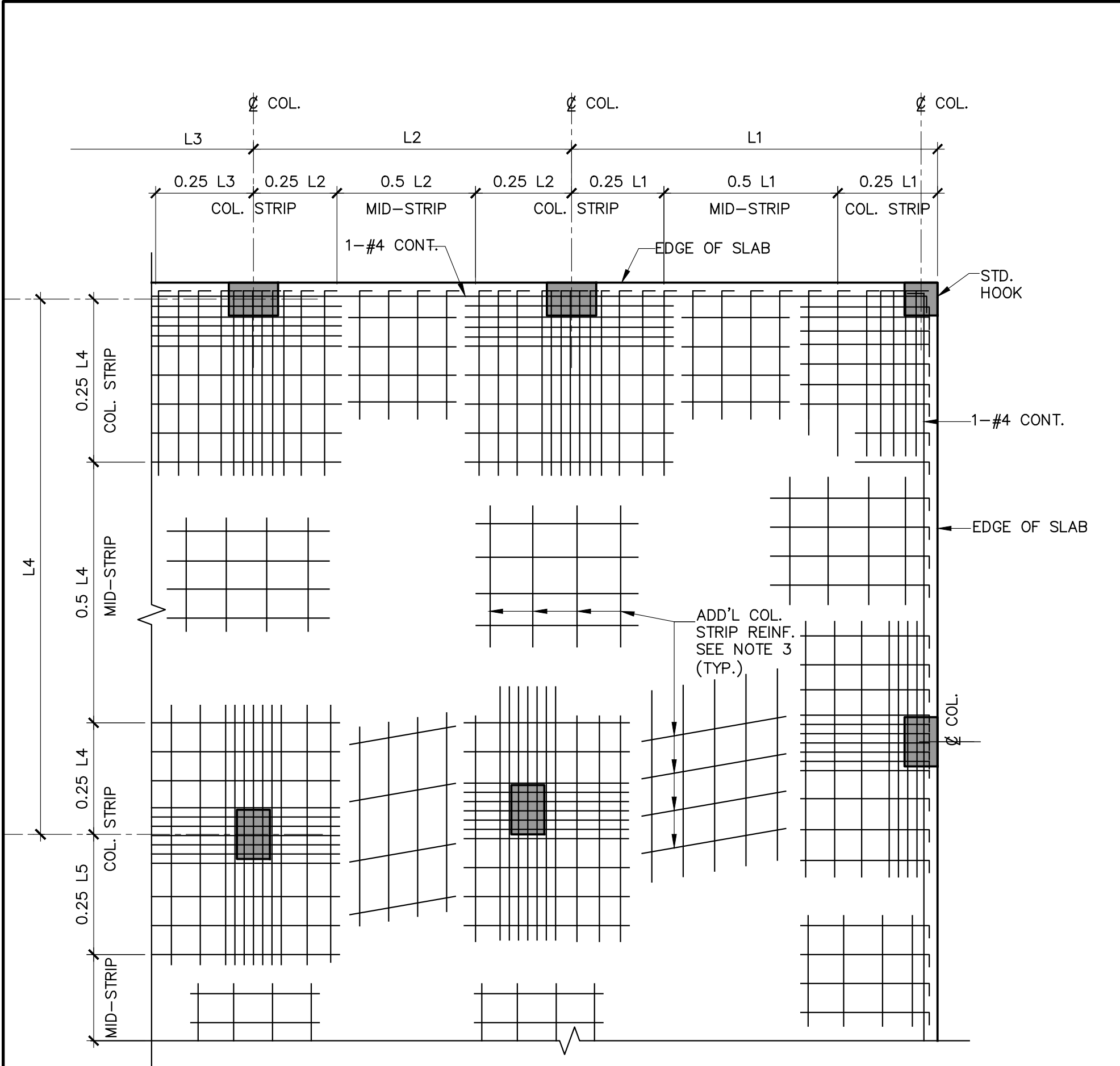
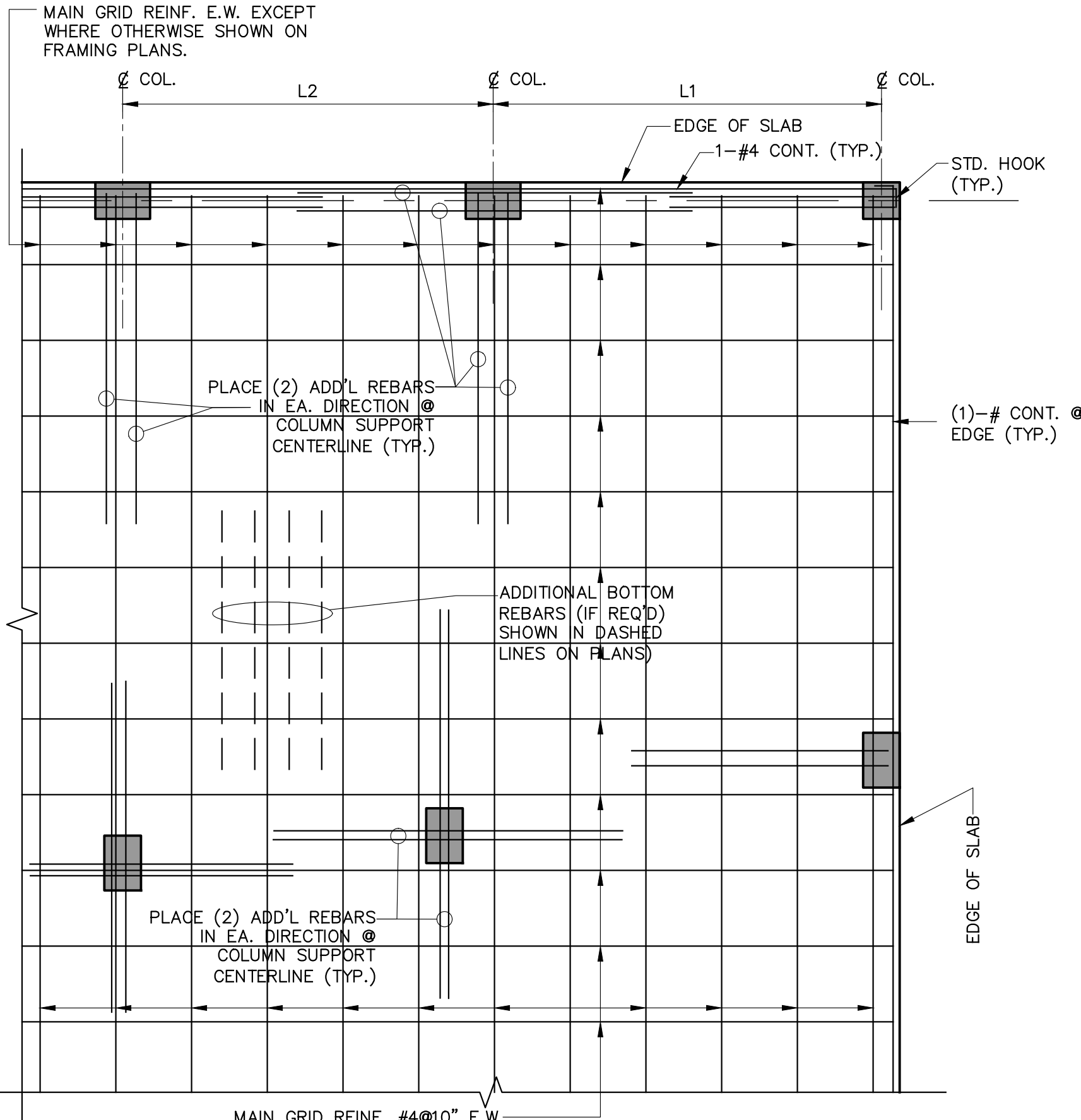




TYP. TWO-WAY CONCRETE SLAB
TOP REINFORCEMENT (PLAN)

N.T.S.

- NOTES:
- COLUMN STRIP BARS SPACED AS SHOWN ON PLANS. PLACE BARS SYMMETRICALLY ABOUT COLUMN & GROUP IN APPROX. PROPORTION TO C.C. DISTANCE OF ADJACENT COLUMNS.
 - BOTTOM REINF. SHALL BE A CONT. MAT IN EA. DIRECTION.
 - COLUMN STRIP BARS PARALLEL TO SPANDREL BEAM (WHERE APPLICABLE) TO HAVE FIRST BAR AT 1/2 OF SCHEDULED SPACING FROM EDGE OF SPANDREL. (6" MAX.)
 - TOP REINFORCEMENT IS SHOWN IN SOLID LINES ON PLANS.



TYP. TWO-WAY CONCRETE SLAB
BOTT. REINFORCEMENT (PLAN)

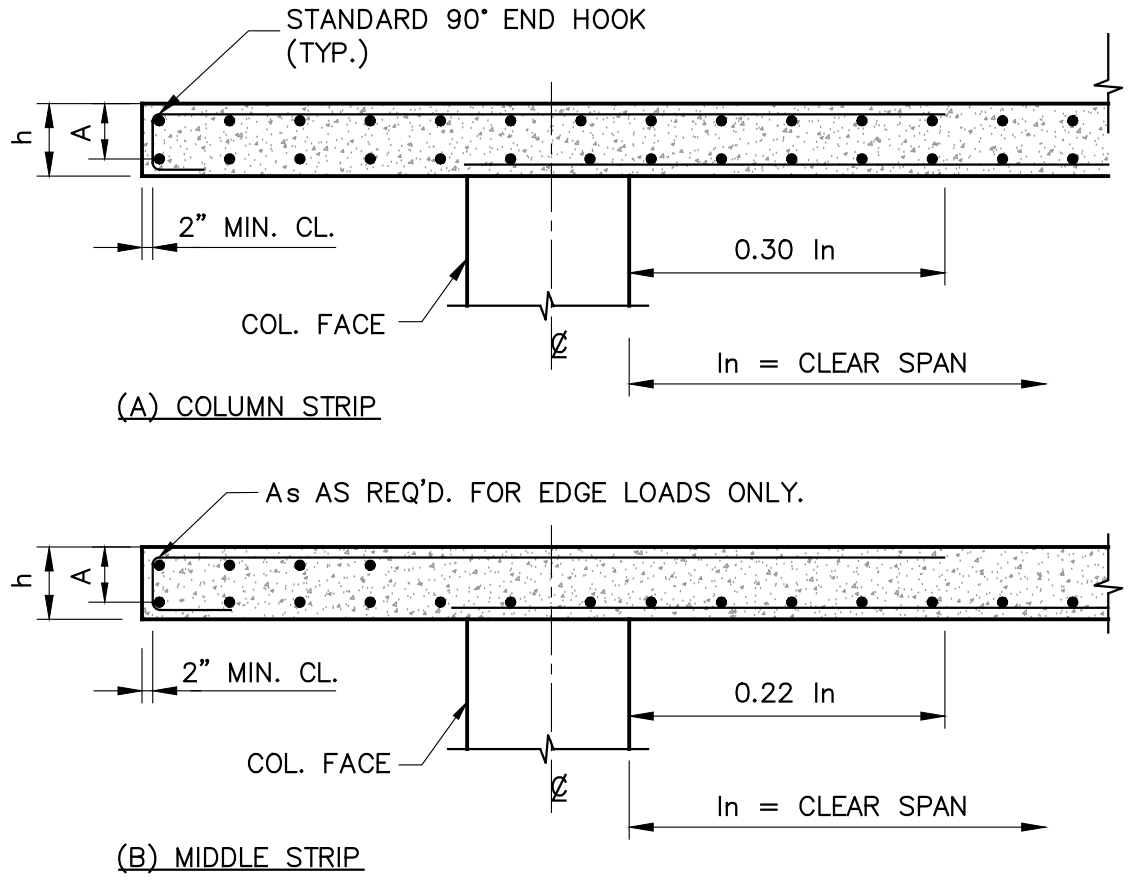
N.T.S.

- NOTES:
- PLACE ADDED BARS BETWEEN TYPICAL BOTTOM BARS AND GROUP ABOUT WORKING LINE IN APPROX. PROPORTION TO C.C. DISTANCE OF ADJACENT WORKING LINES. FOR SIZE AND NUMBER SEE PLANS. EXTEND ADDED BARS FROM SUPPORT.
 - PLACE ADDED BARS BETWEEN TYPICAL BOTTOM BARS. AT EXTERIOR EDGES ONE SPACING FROM CONTINUOUS EDGE BAR. EXTEND ADDED BARS FROM SUPPORT TO SUPPORT.
 - AT LEAST 50% OF REINFORCEMENT SHALL BE CONTINUOUS OVER SUPPORTS AND SPLICES SHALL BE MADE ON COLUMN LINES (U.N.O.) PROVIDE 36 BAR DIA. SPLICES AT ALL CONTINUOUS REBARS.
 - ADD'L BOTTOM REINFORCEMENT IS SHOWN IN DASHED LINES ON PLANS.

- NOTE:
- TOP BARS MUST BE CONCENTRATED WITHIN WIDTH OF THE COLUMN PLUS 1.5h ON EACH SIDE OF THE COLUMN (ACI 13.5.3.2 AND 13.5.3.4).
 - INTEGRITY REINFORCEMENT IS REQUIRED (ACI 13.3.8.5). ALL BOTTOM BARS IN THE COLUMN STRIP MUST BE CONTINUOUS OR SPLICED OVER THE SUPPORT WITH CLASS "B" TENSION LAP SPLICES. AT LEAST TWO OF THE COLUMN STRIP BOTTOM BARS IN EACH DIRECTION MUST PASS WITHIN THE COLUMN CORE AND BE ANCHORED AT EXTERIOR SUPPORTS.

TENSION SPlice LENGTH SCHEDULE												
BAR SIZE	3,000 P.S.I.		4,000 P.S.I.		5,000 P.S.I.		6,000 P.S.I.		8,000 P.S.I.		10,000 P.S.I.	
	TOP BARS	OTHER BARS	TOP BARS	OTHER BARS	TOP BARS	OTHER BARS	TOP BARS	OTHER BARS	TOP BARS	OTHER BARS	TOP BARS	OTHER BARS
#4	38	29	32	25	29	22	26	21	23	18	20	16
#5	47	36	40	31	36	28	33	26	28	22	25	20
#6	56	43	48	37	43	33	39	31	34	27	30	23
#7	82	63	70	54	63	49	57	44	50	39	44	35
#8	94	72	80	62	72	56	65	51	57	44	51	39
#9	106	81	90	69	81	62	74	57	64	50	57	44
#10	116	89	100	77	90	69	82	63	71	55	63	49
#11	128	98	110	85	99	76	90	70	78	60	70	54
#14	LAP SPLICE, NOT PERMITTED; USE MECH. SPLICES PER ACI 318, SECTION 12.14.3											
#18												

- NOTE:
- TABULATED VALUES ARE BASED ON A MINIMUM YIELD STRENGTH OF 60,000 PSI AND NORMAL-WEIGHT CONCRETE. LENGTHS ARE IN INCHES. ALL LAP SPLICE ARE CLASS "B" SPLICES.
 - TENSION DEVELOPMENT LENGTHS AND TENSION LAP SPLICE LENGTHS ARE CALCULATED PER ACI 318-11, SECTIONS 12.2.3 AND 12.15, RESPECTIVELY, WITH BAR SIZES LIMITED TO #3 THROUGH #11.
 - SPLICE LENGTHS FOR TOP BARS OF BEAMS & SLABS THICKER THAN 12" HAVE BEEN MULTIPLIED BY A FACTOR OF 1.3 Ld PER ACI 318-11 SECTION 12.2.4

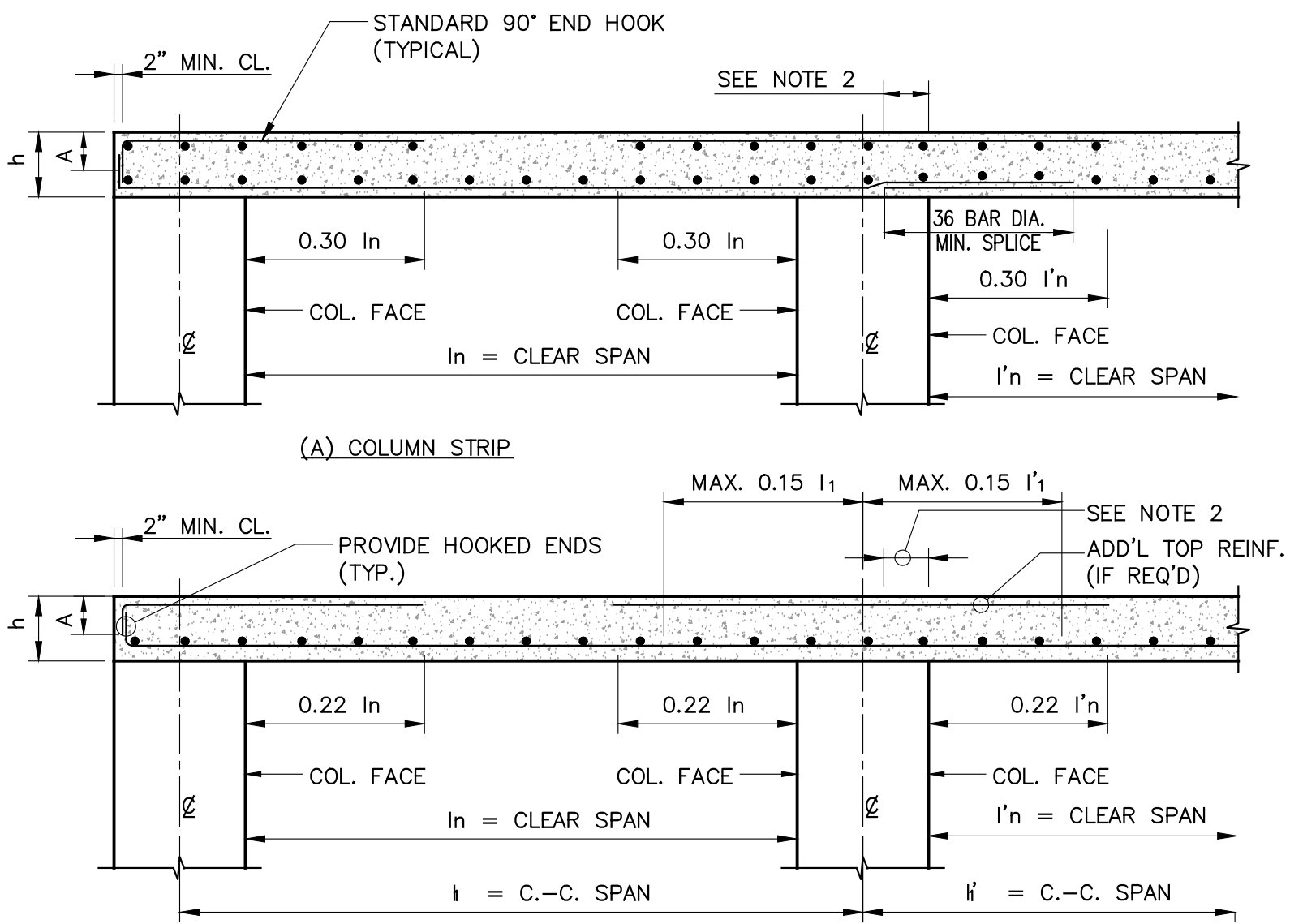
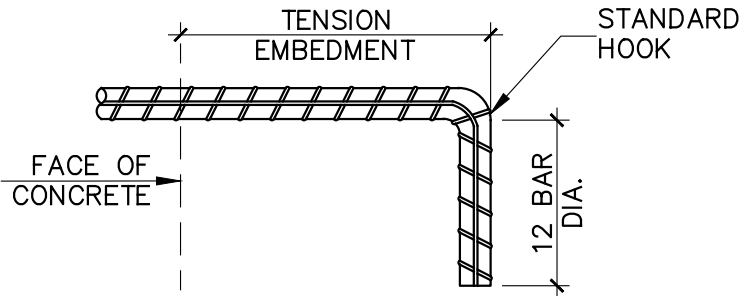


CANTILEVER DETAILS
SCALE: 1/2" = 1'-0" (REINFORCEMENT PLACEMENT.)

COMPRESSION SPlice LENGTH SCHEDULE (Lc)	
#3 THRU #11 BARS	USE 30 BAR DIAMETER FOR ALL CONC. STRENGTHS.
#14 THRU #18 BARS	LAP SPLICE NOT PERMITTED; USE MECH. SPLICES PER ACI 318, SECTION 12.14.3

COMPRESSION AND TENSION DEVELOPMENT LENGTH SCHEDULE												
BAR SIZE	3,000 P.S.I.		4,000 P.S.I.		5,000 P.S.I.		6,000 P.S.I.		8,000 P.S.I.		10,000 P.S.I.	
	Lcd	Ltd	Lcd	Ltd	Lcd	Ltd	Lcd	Ltd	Lcd	Ltd	Lcd	Ltd
#4	11	22	10	19	9	17	9	16	11	14	11	12
#5	14	28	12	24	12	22	12	20	14	17	14	15
#6	17	33	15	29	14	26	14	24	17	21	17	18
#7	20	48	17	42	16	38	16	34	20	30	20	27
#8	22	55	19	48	18	43	18	39	22	34	22	30
#9	25	62	22	54	21	48	21	44	25	38	25	34
#10	28	69	24	60	23	53	23	49	28	42	28	38
#11	31	76	27	66	25	59	25	54	31	47	31	42
#14	39	96	34	83	30	74	27	68	24	59	21	53
#18	50	123	43	107	38	86	35	87	30	76	27	68

Lcd = COMPRESSION DEVELOPMENT LENGTH
Ltd = TENSION DEVELOPMENT LENGTH (WITHOUT HOOKS)



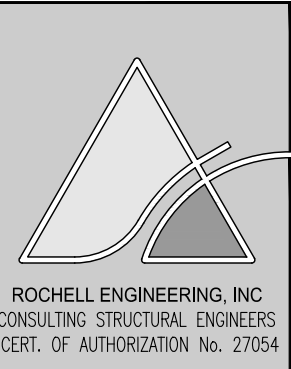
TYP. FLAT SLAB DETAIL
SCALE: 3/4" = 1'-0"

OVERFLOW SCUPPER DETAIL (B)
SCALE : 3/4" = 1'-0"

TO THE BEST OF MY KNOWLEDGE THESE PLANS CONFORM TO THE STRUCTURAL REQUIREMENTS OF F.B.C. 2023 LATEST REVISIONS, INCLUDING SECTIONS PERTAINING TO H.V.H.Z.

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CONSULTANT(S)

NO.	REVISION/SUBMISSION	DATE
1	OWNER REVIEW	04-08-24
2	PERMIT SUBMITTAL	10-28-23

PROJECT

New 2-Story Residence:
6100 W Suburban Dr. Pinecrest, FL 33156

DRAWING

TYP. DETAILS

SEAL	SCALE
	DRAWN
	REVIEWED NDL
	PROJ. NO. 351

SHEET NO.
Nelson de
Leon
AR 13937
S-17