REQUIRED VERIFICATION AND INSPECTION OF STRUCTURAL STEEL CONSTRUCTION

VERIFCATION AND INSPECTION	REFERENCED STANDARD	IBC REFERENCE
1. SPECIAL INSPECTION FOR STRUCTURAL STEEL SHALL BE IN ACCORDANCE WITH THE QUALITY ASSURANCE INSPECTION REQUIREMENTS OF AISC 360.	AISC 360-10: CHAPTER N	1705.2.1

REQUIRED VERIFICATION AND INSPECTION OF MASONRY CONSTRUCTION

VERIFICATION AND INSPECTION	REFERENCED STANDARD	IBC REFERENCE
1. MASONRY CONSTRUCTION SHALL BE INSPECTED AND VERIFIED IN ACCORDANCE WITH TMS 402/ ACI 530/ASCE 5 AND TMS 602/ ACI 530.1/ ASCE 6 QUALITY ASSURANCE PROGRAM REQUIREMENTS.	ACI 530-11	1705.4

REQUIRED VERIFICATION AND INSPECTION OF CONCRETE CONSTRUCTION

VERIFICATION AND INSPECTION	CONTINUOUS	PERIODIC	REFERENCED STANDARD	IBC REFERENCE
1. INSPECTION OF REINFORCING STEEL, INCLUDING PRESTRESS TENDONS AND PLACEMENT.	___	X	ACI 318:3.5, 7.1-7.7	1910.4
2. INSPECTION OF REINFORCING STEEL WELDING IN ACCORDANCE WITH TABLE 1704.3, ITEM 5B.	___	___	AWS D1.4, ACI 318: 3.5.2	___
3. INSPECTION OF ANCHORS CAST IN CONCRETE WHERE ALLOWABLE LOADS HAVE BEEN INCREASED OR WHERE STRENGTH DESIGN IS USED.	___	X	ACI 318: 8.1.3, 21.2.8	1908.5, 1909.1
4. INSPECTION OF ANCHORS POST-INSTALLED IN HARDENED CONCRETE MEMBERS.	___	X	ACI 318: 3.8.6, 8.1.3, 21.2.8	1909.1
5. VERIFYING USE OF REQUIRED DESIGN MIX.	-----	X	ACI 318: Ch. 4, 5.2-5.4	1904.2, 1910.2, 1910.3
6. AT THE TIME FRESH CONCRETE IS SAMPLED TO FABRICATE SPECIMENS FOR STRENGTH TESTS, PERFORM SLUMP AND AIR CONTENT TESTS, AND DETERMINE THE TEMPERATURE OF THE CONCRETE.	X	____	ASTM C 172, ASTM C 31 ACI 318:5.6, 5.8	1910.10
7. INSPECTION OF CONCRETE AND SHOTCRETE PLACEMENT FOR PROPER APPLICATION TECHNIQUES.	X	____	ACI 318: 5.9, 5.10	1910.6, 1910.7, 1910.8
8. INSPECTION FOR MAINTENANCE OF SPECIFIED CURING TEMPERATURE AND TECHNIQUES.	____	X	ACI 318: 5.11-5.13	1910.9
9. VERIFICATION OF IN-SITU CONCRETE STRENGTH, PRIOR TO STRESSING OF TENDONS IN POST-TENSIONED CONCRETE AND PRIOR TO REMOVAL OF SHORES AND FORMS FROM BEAMS AND STRUCTURAL SLABS.	___	X	ACI 318: 6.2	____
10. INSPECT FORMWORK FOR SHAPE, LOCATIONS AND DIMENSIONS OF THE CONCRETE MEMBER BEING FORMED.	___	X	ACI 318: 6.1.1	____

REQUIRED VERIFICATION AND INSPECTION OF STEEL CONSTRUCTION OTHER THAN STRUCTURAL STEEL

VERIFICATION AND INSPECTION	CONTINUOUS	PERIODIC	REFERENCED STANDARD
1. MATERIAL VERIFICATION OF COLD-FORMED STEEL DECK:			
a. IDENTIFICATION MARKING TO CONFORM TO ASTM STANDARDS SPECIFIED IN THE APPROVED CONSTRUCTION DOCUMENTS.	----	X	APPLICABLE ASTM MATERIAL STANDARDS
b. MANUFACTURER'S CERTIFIED TEST REPORTS.	----	X	_____
2. INSPECTION OF WELDING:			
a. COLD-FORMED STEEL DECK:			
1) FLOOR AND ROOF DECK WELDS.	----	X	AWS D1.3
b. REINFORCING STEEL:			
1) VERIFICATION OF WELDABILITY OF REINFORCING STEEL OTHER THAN ASTM A 706.	----	X	AWS D1.4, ACI318: 3.5.2
2) REINFORCING STEEL RESISTING FLEXURAL AND AXIAL FORCES IN INTERMEDIATE AND SPECIAL MOMENT FRAMES, AND BOUNDARY ELEMENTS OF SPECIAL REINFORCED CONCRETE SHEAR WALLS AND SHEAR REINFORCEMENT.	X	----	AWS D1.4, ACI318: 3.5.2
3) SHEAR REINFORCEMENT.	X	----	AWS D1.4, ACI318: 3.5.2
4) OTHER REINFORCING STEEL.	----	X	AWS D1.4, ACI318: 3.5.2

REQUIRED VERIFICATION AND INSPECTION OF CAST-IN-PLACE DEEP FOUNDATION ELEMENTS

VERIFICATION AND INSPECTION	CONTINUOUS DURING TASK LISTED	PERIODICALLY DURING TAK LISTED
1. OBSERVE DRILLING OPERATIONS AND MAINTAIN COMPLETE AND ACCURATE RECORDS FOR EACH ELEMENT.	X	----
2. VERIFY PLACEMENT LOCATIONS AND PLUMBNESS, CONFIRM ELEMENT DIAMETERS, BELL DIAMETERS (IF APPLICABLE), LENGTHS, EMBEDMENT INTO BEDROCK (IF APPLICABLE) AND ADEQUATE END-BEARING STRATA CAPACITY. RECORD CONCRETE OR GROUT VOLUMES.	X	----
3. FOR CONCRETE ELEMENTS, PERFORM ADDITIONAL INSPECTIONS IN ACCORDANCE WITH SECTION 1705.3.	----	----

HATCHING INDICATES SUPPLEMENTAL INFORMATION THAT IS EXCLUDED FROM FOUNDATION TO GRADE PACKAGE

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QEA PROJECT #: 31610100
TT PROJECT #: M16242.00

SPECIAL INSPECTIONS

DISTRICT OF COLUMBIA
MARK J. TAMARO
No. 900640
REGISTERED
PROFESSIONAL ENGINEER

FOUNDATION TO GRADE
03/03/17

REVISIONS

NO.	DESCRIPTION	DATE

S0030

DEVELOPMENT LENGTH SCHEDULE (INCHES)

SEE NOTE 5

TENSION — NOTED AS Ld ON DRAWINGS — f'c (PSI)

BAR SIZE	MINIMUM BAR SPACING (INCHES) [MAX(1",db) + db] NOTE 2	3000	4000	5000	6000	7000	8000	9000	10,000	11,000	12,000
#4	1.500	22	19	17	16	15	14	13	12	12	12
#5	1.625	28	24	22	20	18	17	16	15	15	15
#6	1.750	33	29	26	24	22	21	19	18	18	18
#7	1.875	48	42	38	34	32	30	28	27	27	27
#8	2.000	55	48	43	39	36	34	32	30	30	30
#9	2.375	62	54	48	44	41	38	36	34	34	34
#10	2.625	70	61	54	50	46	43	41	39	39	39
#11	2.875	78	67	60	55	51	48	45	43	43	43

TENSION — NOTED AS Ldh ON DRAWINGS — f'c (PSI)

BAR SIZE	MINIMUM BAR SPACING (INCHES)	3000	4000	5000	6000	7000	8000	9000	10,000	11,000	12,000
#4	1.500	11	10	9	8	8	7	7	6	6	6
#5	1.625	14	12	11	10	9	9	8	8	8	8
#6	1.750	17	15	13	12	11	11	10	9	9	9
#7	1.875	20	17	15	14	13	12	12	11	11	11
#8	2.000	22	19	17	16	15	14	13	12	12	12
#9	2.375	25	22	20	18	17	16	15	14	14	14
#10	2.625	28	25	22	20	19	18	17	16	16	16
#11	2.875	31	27	24	22	21	19	18	17	17	17

COMPRESSION — NOTED AS Ldc ON DRAWINGS — f'c (PSI)

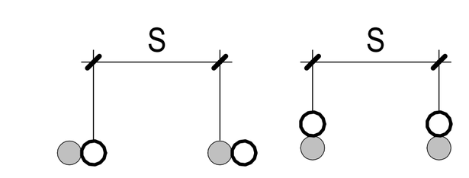
BAR SIZE	MINIMUM BAR SPACING (INCHES)	3000	4000	5000	6000	7000	8000	9000	10,000	11,000	12,000
#4	1.500	11	10	9	9	9	9	9	9	9	9
#5	1.625	14	12	12	12	12	12	12	12	12	12
#6	1.750	17	15	14	14	14	14	14	14	14	14
#7	1.875	20	17	16	16	16	16	16	16	16	16
#8	2.000	22	19	18	18	18	18	18	18	18	18
#9	2.375	25	22	21	21	21	21	21	21	21	21
#10	2.625	28	25	23	23	23	23	23	23	23	23
#11	2.875	31	27	26	26	26	26	26	26	26	26

DEVELOPMENT LENGTH SCHEDULE NOTES:

1. WHERE MORE THAN 12 INCHES OF FRESH CONCRETE IS CAST BELOW THE DEVELOPMENT LENGTH, MULTIPLY Ld BY 1.3.
2. WHERE STIRRUPS OR TIES ARE NOT PRESENT THROUGHOUT Ld, MINIMUM BAR SPACING MUST BE INCREASED TO [MAX(1", db) + 2db] FOR SCHEDULED VALUES TO BE APPLICABLE.

LAP SPLICE NOTES:

1. TABULATED VALUES ARE PER ACI 318-11 REQUIREMENTS FOR NORMALWEIGHT CONCRETE. THE VALUES ON THIS SHEET DO NOT APPLY TO LIGHTWEIGHT CONCRETE.
2. SEE TYPICAL DETAILS FOR CLEAR COVER.
3. MINIMUM BAR SPACING DIAGRAM - "S"



FIRST BAR
SECOND BAR PLACED OR SPLICE BAR

4. WHERE ACTUAL CONDITIONS DIFFER FROM THE CLEAR COVER SHOWN ON THE TYPICAL DETAILS OR DIFFER FROM PROVIDED SCHEDULED BAR SIZE, MINIMUM SPACING AND/OR f'c, LENGTHS SHALL BE ADJUSTED ONLY WITH THE APPROVAL OF THE STRUCTURAL ENGINEER OF RECORD.
5. TABULATED VALUES ARE FOR NON-EPOXY COATED, GRADE 60 REINFORCEMENT IN NORMALWEIGHT CONCRETE.

   FOR EPOXY COATED REINFORCEMENT:
   - MULTIPLY Ld BY 1.5
   - MULTIPLY Ldh BY 1.2
   - Ldc IS NOT AFFECTED
   - MULTIPLY LTS BY 1.3 FOR "TOP BARS"
   - MULTIPLY LTS BY 1.5 FOR ALL OTHER REINFORCEMENT

   FOR GRADE 75 REINFORCEMENT:
   - MULTIPLY Ld, Ldh, Ldc, AND LTS BY 1.25
   - MULTIPLY Lcs BY 1.45
6. WHERE BARS OF DIFFERENT SIZES ARE LAP SPLICED IN TENSION, THE TENSION LAP SPLICE LENGTH (LTS) SHALL BE THE LARGER OF THE TENSION DEVELOPMENT LENGTH (Ld) OF THE LARGER BAR AND THE TENSION LAP SPLICE LENGTH OF THE SMALLER BAR.
7. WHERE BARS OF DIFFERENT SIZES ARE LAP SPLICED IN COMPRESSION, THE COMPRESSION LAP LENGTH (LCS) SHALL BE THE LARGER OF THE COMPRESSION DEVELOPMENT LENGTH (Ldc) OF THE LARGER BAR OR THE COMPRESSION LAP SPLICE LENGTH OF THE SMALLER BAR.
8. "TOP BARS" ARE DEFINED AS HORIZONTAL REINFORCEMENT PLACED SUCH THAT MORE THAN 12 INCHES OF FRESH CONCRETE IS CAST BELOW THE DEVELOPMENT LENGTH OR SPLICE . "OTHER BARS" ARE ALL BARS FOR WHICH THIS DOES NOT APPLY.

SLAB/SLAB-ON-GRADE REINFORCEMENT LAP SPLICE LENGTH SCHEDULE (INCHES)

SEE NOTE 5

BAR SIZE	MINIMUM BAR SPACING (INCHES)	TENSION (LTS) f'c = 3 KSI	f'c = 4 KSI	f'c = 5 KSI	f'c = 6 KSI	f'c = 7 KSI	f'c = 8 KSI
#4	5.500	22	19	17	16	14	14
#5	5.375	32	28	25	23	21	20
#6	5.250	43	37	34	31	28	27
#7	5.125	69	60	54	49	46	43
#8	5.000	86	74	67	61	56	53

COLUMN REINFORCEMENT LAP SPLICE LENGTH SCHEDULE (INCHES)

SEE NOTE 5

BAR SIZE	MINIMUM BAR SPACING (INCHES)	TENSION (LTS) f'c = 4 KSI	f'c= 5 KSI	f'c = 6 KSI	f'c = 7 KSI	f'c = 8 KSI	f'c = 9 KSI	f'c = 10 KSI	f'c = 11 KSI	f'c = 12 KSI	COMPRESSION (LCS)
#5	2.125	28	25	23	21	20	19	18	18	18	19
#6	2.250	37	34	31	28	27	25	24	24	24	23
#7	2.375	54	49	45	41	39	36	35	35	35	27
#8	2.500	62	56	51	47	44	42	39	39	39	30
#9	2.875	70	63	57	53	50	47	44	44	44	34
#10	3.250	79	71	64	60	56	53	50	50	50	39
#11	3.625	87	78	71	66	62	58	55	55	55	43

GRADE BEAM/BEAM REINFORCEMENT LAP SPLICE LENGTH SCHEDULE (INCHES)

SEE NOTE 5

BAR SIZE	MINIMUM BAR SPACING (INCHES)	TENSION (LTS) f'c = 4 KSI		f'c= 5 KSI		f'c = 6 KSI		f'c = 7 KSI		f'c = 8 KSI		f'c = 9 KSI		f'c = 10 KSI	
		TOP BARS	OTHER	TOP BARS	OTHER	TOP BARS	OTHER	TOP BARS	OTHER	TOP BARS	OTHER	TOP BARS	OTHER	TOP BARS	OTHER
#4	1.500	33	25	29	23	27	21	25	19	23	18	22	17	21	16
#5	1.625	41	31	36	28	33	26	31	24	29	22	27	21	26	20
#6	1.750	49	37	44	34	40	31	37	28	35	27	33	25	31	24
#7	1.875	71	54	63	49	58	45	54	41	50	39	47	36	45	35
#8	2.000	81	62	72	56	66	51	61	47	57	44	54	42	51	39
#9	2.375	91	70	81	63	74	57	69	53	64	50	61	47	58	44
#10	2.625	102	79	92	71	84	64	77	60	72	56	68	53	65	50
#11	2.875	114	87	102	78	93	71	86	66	80	62	76	58	72	55

FOOTING/MAT REINFORCEMENT LAP SPLICE LENGTH SCHEDULE (INCHES)

SEE NOTE 5

BAR SIZE	MINIMUM BAR SPACING (INCHES)	TENSION LAP (LTS) f'c = 4 KSI		f'c = 5 KSI		f'c = 6 KSI		f'c = 7 KSI		f'c = 8 KSI		f'c = 9 KSI		f'c = 10 KSI	
		TOP BARS	OTHER	TOP BARS	OTHER	TOP BARS	OTHER	TOP BARS	OTHER	TOP BARS	OTHER	TOP BARS	OTHER	TOP BARS	OTHER
#4	5.500	20	15	18	14	16	13	15	12	14	12	13	12	13	12
#5	5.375	25	19	22	17	20	16	19	14	18	14	17	13	16	12
#6	5.250	29	23	26	20	24	19	22	17	21	16	20	15	19	15
#7	5.125	43	33	38	29	35	27	32	25	30	23	29	22	27	21
#8	5.000	49	37	44	34	40	31	37	28	35	27	33	25	31	24
#9	4.875	63	49	57	44	52	40	48	37	45	35	42	33	40	31
#10	4.750	82	63	74	57	67	52	62	48	58	45	55	42	52	40
#11	4.625	104	80	93	72	85	65	79	61	74	57	69	54	66	51

SHEAR WALL REINFORCEMENT - VERTICAL BARS LAP SPLICE LENGTH SCHEDULE (INCHES)

SEE NOTE 5

BAR SIZE	MINIMUM BAR SPACING (INCHES)	TENSION (LTS) f'c = 4 KSI	f'c = 5 KSI	f'c = 6 KSI	f'c = 7 KSI	f'c = 8 KSI	f'c = 9 KSI	f'c = 10 KSI	f'c = 11 KSI	f'c = 12 KSI	COMPRESSION (LCS)
#4	5.500	15	14	13	12	12	12	12	12	12	15
#5	5.375	19	17	16	14	14	13	12	12	12	19
#6	5.250	26	23	21	20	19	18	17	17	17	23
#7	5.125	42	38	35	32	30	28	27	27	27	27
#8	5.000	53	48	44	40	38	36	34	34	34	30
#9	4.875	65	59	53	50	46	44	42	42	42	34
#10	4.750	80	71	65	60	56	53	51	51	51	39
#11	4.625	95	85	77	72	67	63	60	60	60	43

SHEAR WALL REINFORCEMENT - HORIZONTAL BARS LAP SPLICE LENGTH SCHEDULE (INCHES)

SEE NOTE 5

BAR SIZE	MINIMUM BAR SPACING (INCHES)	TENSION (LTS) f'c = 4 KSI	f'c = 5 KSI	f'c = 6 KSI	f'c = 7 KSI	f'c = 8 KSI	f'c = 9 KSI	f'c = 10 KSI	f'c = 11 KSI	f'c = 12 KSI	COMPRESSION (LCS)
#4	5.500	25	22	20	19	18	17	16	16	16	15
#5	5.375	36	32	29	27	26	24	23	23	23	19
#6	5.250	49	44	40	37	35	33	31	31	31	23
#7	5.125	78	70	64	59	55	52	50	50	50	27
#8	5.000	97	87	79	73	69	65	61	61	61	30
#9	4.875	117	105	96	89	83	78	74	74	74	34
#10	4.750	141	126	115	106	100	94	89	89	89	39
#11	4.625	165	147	135	125	117	110	104	104	104	43

FOUNDATION WALL REINFORCEMENT - VERTICAL INSIDE BARS LAP SPLICE LENGTH SCHEDULE (INCHES)

SEE NOTE 5

BAR SIZE	MINIMUM BAR SPACING (INCHES)	TENSION (LTS) f'c = 4 KSI	f'c = 5 KSI	f'c = 6 KSI	f'c = 7 KSI	f'c = 8 KSI	f'c = 9 KSI	f'c = 10 KSI	f'c = 11 KSI	f'c = 12 KSI	COMPRESSION (LCS)
#4	5.500	15	14	13	12	12	12	12	12	12	15
#5	5.375	23	20	18	17	16	15	14	14	14	19
#6	5.250	31	28	25	23	22	21	20	20	20	23
#7	5.125	50	45	41	38	35	33	32	32	32	27
#8	5.000	62	56	51	47	44	42	39	39	39	30
#9	4.875	76	68	62	57	54	51	48	48	48	34
#10	4.750	92	82	75	69	65	61	58	58	58	39
#11	4.625	108	97	89	82	77	72	69	69	69	43

FOUNDATION WALL REINFORCEMENT - HORIZONTAL INSIDE BARS LAP SPLICE LENGTH SCHEDULE (INCHES)

SEE NOTE 5

BAR SIZE	MINIMUM BAR SPACING (INCHES)	TENSION (LTS) f'c = 4 KSI	f'c = 5 KSI	f'c = 6 KSI	f'c = 7 KSI	f'c = 8 KSI	f'c = 9 KSI	f'c = 10 KSI	f'c = 11 KSI	f'c = 12 KSI	COMPRESSION (LCS)
#4	5.500	20	18	16	15	14	13	13	13	13	15
#5	5.375	25	22	20	19	18	17	16	16	16	19
#6	5.250	29	26	24	22	21	20	19	19	19	23
#7	5.125	48	43	39	36	34	32	31	31	31	27
#8	5.000	61	54	50	46	43	41	39	39	39	30
#9	4.875	75	67	61	57	53	50	47	47	47	34
#10	4.750	91	82	75	69	65	61	58	58	58	39
#11	4.625	109	97	89	82	77	73	69	69	69	43

FOUNDATION WALL REINFORCEMENT - VERTICAL OUTSIDE BARS LAP SPLICE LENGTH SCHEDULE (INCHES)

SEE NOTE 5

BAR SIZE	MINIMUM BAR SPACING (INCHES)	TENSION (LTS) f'c = 4 KSI	f'c = 5 KSI	f'c = 6 KSI	f'c = 7 KSI	f'c = 8 KSI	f'c = 9 KSI	f'c = 10 KSI	f'c = 11 KSI	f'c = 12 KSI	COMPRESSION (LCS)
#4	5.500	15	14	13	12	12	12	12	12	12	15
#5	5.375	19	17	16	14	14	13	12	12	12	19
#6	5.250	23	20	19	17	16	15	15	15	15	23
#7	5.125	33	29	27	25	23	22	21	21	21	27
#8	5.000	37	34	31	28	27	25	24	24	24	30
#9	4.875	49	44	40	37	35	33	31	31	31	34
#10	4.750	63	57	52	48	45	42	40	40	40	39
#11	4.625	80	72	65	61	57	54	51	51	51	43

FOUNDATION WALL REINFORCEMENT - HORIZONTAL OUTSIDE BARS LAP SPLICE LENGTH SCHEDULE (INCHES)

SEE NOTE 5

BAR SIZE	MINIMUM BAR SPACING (INCHES)	TENSION (LTS) f'c = 4 KSI	f'c = 5 KSI	f'c = 6 KSI	f'c = 7 KSI	f'c = 8 KSI	f'c = 9 KSI	f'c = 10 KSI	f'c = 11 KSI	f'c = 12 KSI	COMPRESSION (LCS)
#4	5.500	20	18	16	15	14	13	13	13	13	15
#5	5.375	25	22	20	19	18	17	16	16	16	19
#6	5.250	29	26	24	22	21	20	19	19	19	23
#7	5.125	43	38	35	32	30	29	27	27	27	27
#8	5.000	49	44	40	37	35	33	31	31	31	30
#9	4.875	63	57	52	48	45	42	40	40	40	34
#10	4.750	82	74	67	62	58	55	52	52	52	39
#11	4.625	104	93	85	79	74	69	66	66	66	43

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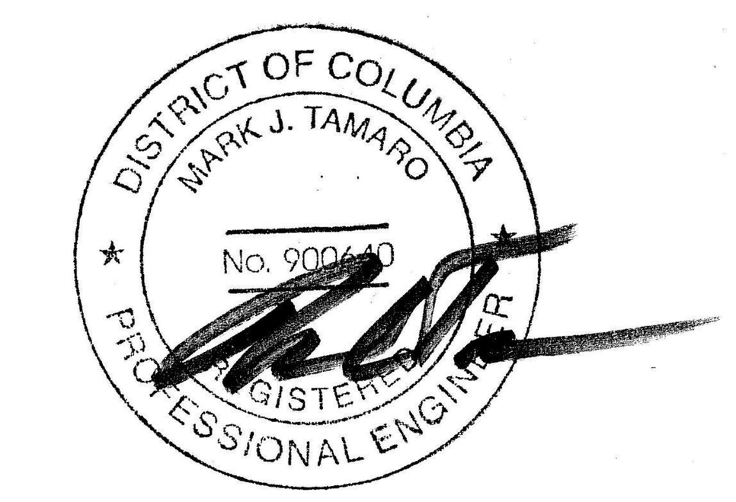
QEA PROJECT #: 31610100
TT PROJECT #: M16242.00

LAP SPLICE SCHEDULES



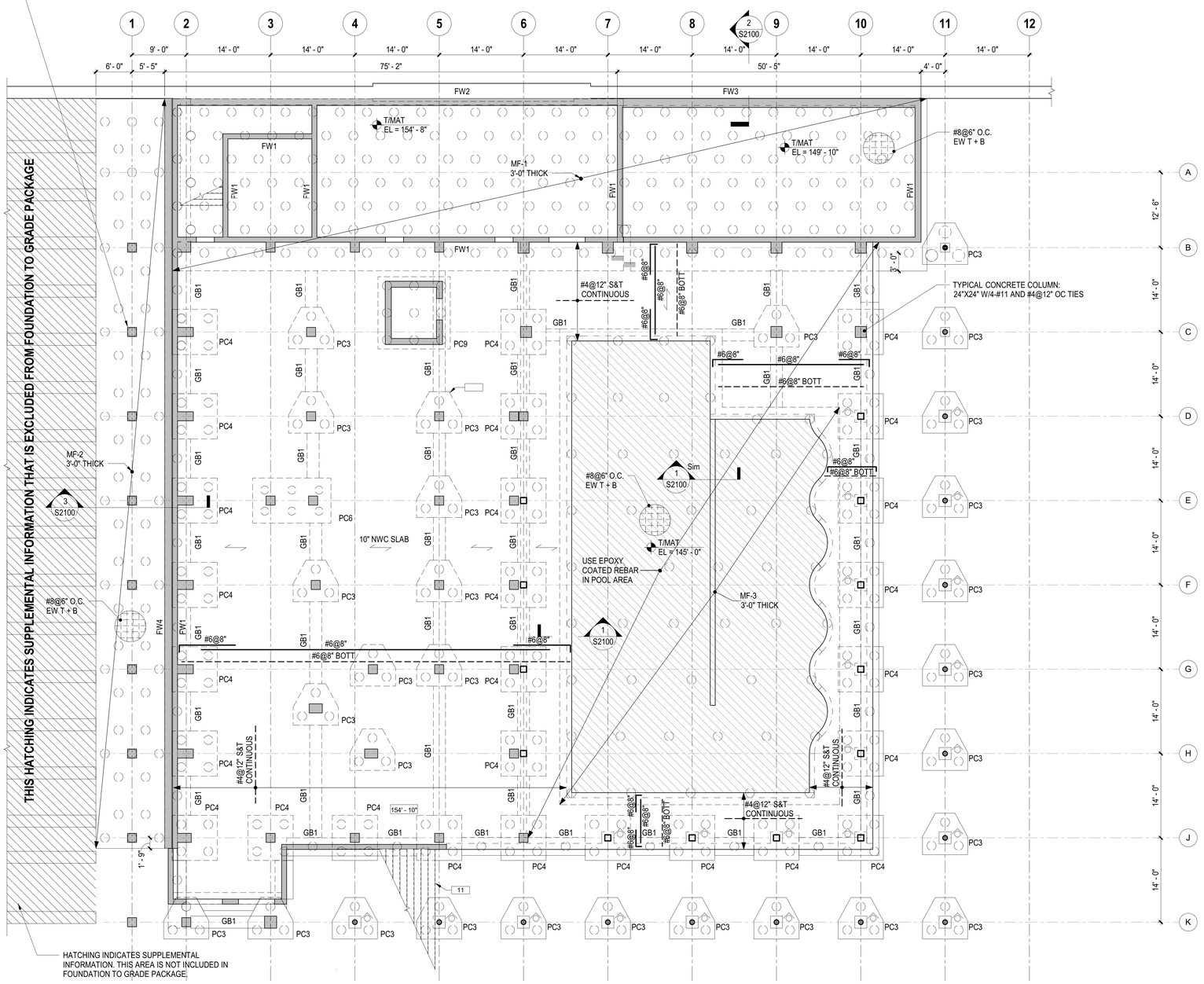
FOUNDATION TO GRADE
03/03/17

REVISIONS

NO.	DESCRIPTION	DATE

S0300

NEW CONCRETE COLUMNS SIT ON BASE OF ADJACENT RETAINING WALL AT APPROX. ELEVATION 155'. ADJACENT RETAINING WALL IS ASSUMED TO BE TIED VIA GRADE BEAMS TO ANOTHER RETAINING WALL LOCATED FURTHER TO THE WEST.



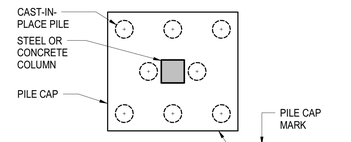
1 S1010 FIRST FLOOR FRAMING PLAN
1/8" = 1'-0"

SHEET NOTES:

1. SEE GENERAL NOTES FOR CONCRETE COMPRESSIVE STRENGTH
2. FOR ADDITIONAL INFORMATION REFER TO THE FOLLOWING DRAWINGS:

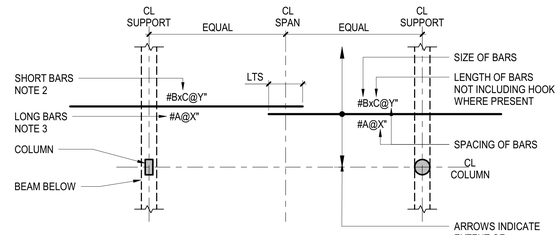
DRAWING LISTS, GENERAL NOTES AND LOADING DIAGRAMS	S0 SERIES DRAWINGS
TYPICAL FOUNDATION DETAILS	S2 SERIES DRAWINGS
LATERAL SYSTEM ELEVATIONS, CONNECTION FORCES AND DETAILS	S3 SERIES DRAWINGS
CONCRETE SUPERSTRUCTURE SCHEDULES AND DETAILS	S4 SERIES DRAWINGS
STEEL SUPERSTRUCTURE SCHEDULES AND DETAILS	S5 SERIES DRAWINGS
MASONRY DETAILS	S6 SERIES DRAWINGS

CAST-IN-PLACE PILE AND PILE CAP LEGEND



NOTES:

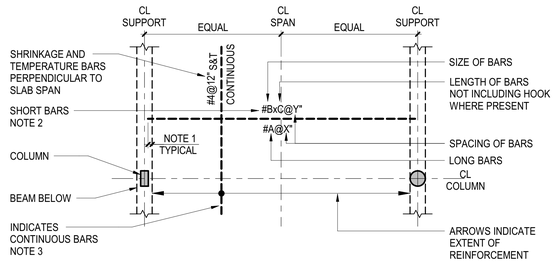
1. T/PILE CAP EL =151'-10" TYPICAL UON
2. SEE TYPICAL PILE CAP SCHEDULE AND DETAILS
3. SEE PLAN FOR PILE CAP ORIENTATION



LEGEND NOTES:

1. HOOK ALL TOP BARS AT DISCONTINUOUS EDGES AS INDICATED ON PLAN WITH 90 DEG STANDARD HOOK OR IF NECESSARY USE 180 DEG STANDARD HOOK
2. CENTER SHORT BARS ON SUPPORT UON
3. WHERE LONG BARS ARE REQUIRED SPLICE AT MID-SPAN AS SHOWN UON

2 ONE-WAY SLAB TOP BAR REINFORCEMENT LEGEND
NOT TO SCALE



LEGEND NOTES:

1. EXTEND BOTTOM BARS 6 INCHES INTO SUPPORT AT EACH END
2. CENTER SHORT BARS AT MID-SPAN AND ALTERNATE WITH LONG BARS UON
3. ALL S&T BARS TO EXTEND WITHIN 2 INCHES OF SLAB EDGE OR 6 INCHES INTO SUPPORT
4. PLACE S&T BARS DIRECTLY ABOVE BOTTOM BARS

3 ONE-WAY SLAB BOTTOM BAR REINFORCEMENT LEGEND
NOT TO SCALE

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QEA PROJECT #: 31610100
TT PROJECT #: M16242.00

1ST FLOOR FRAMING PLAN

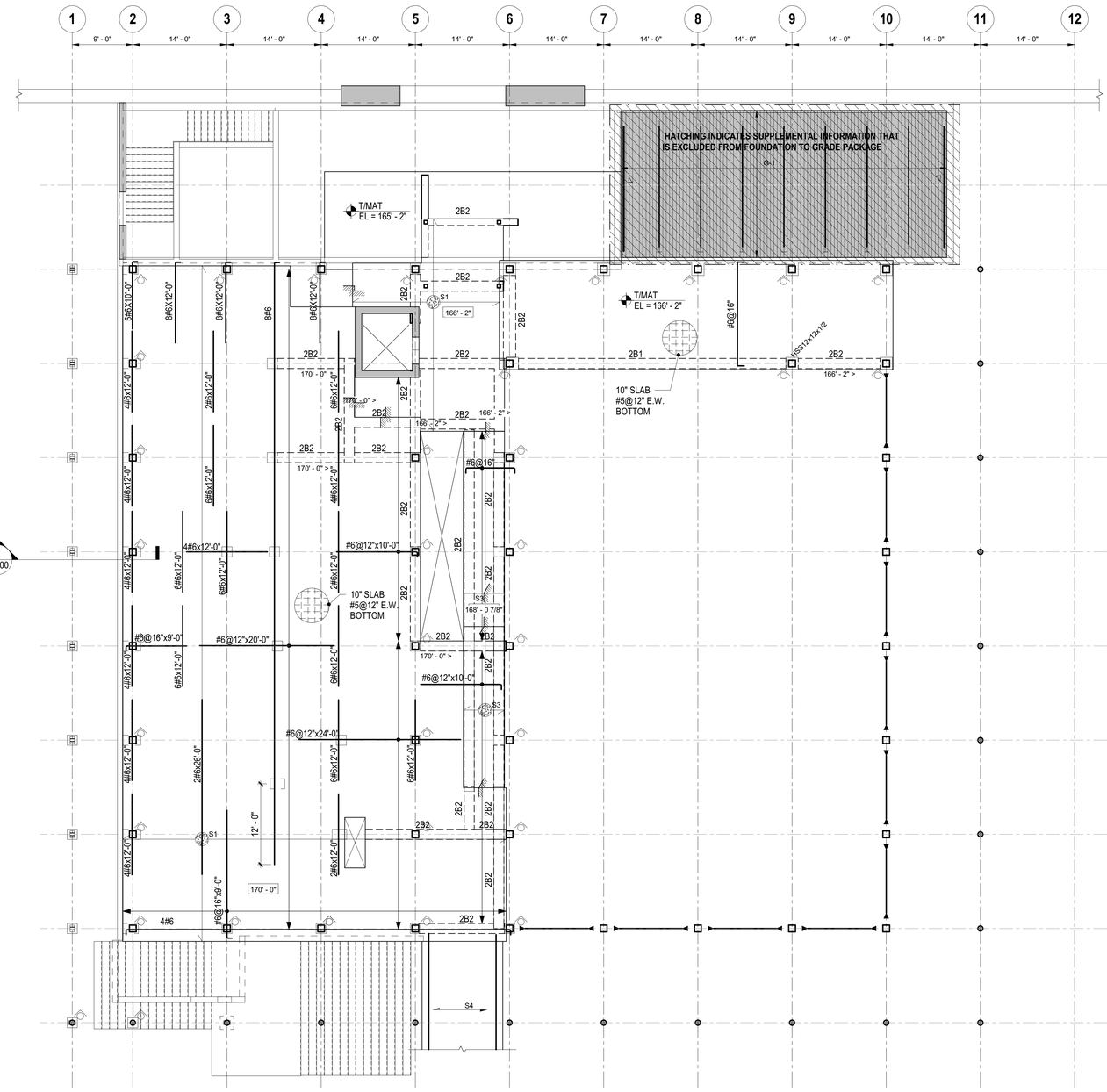
DISTRICT OF COLUMBIA
MARK J. TAMARO
No. 900[illegible]
REGISTERED
PROFESSIONAL ENGINEER

FOUNDATION TO GRADE
03/03/17

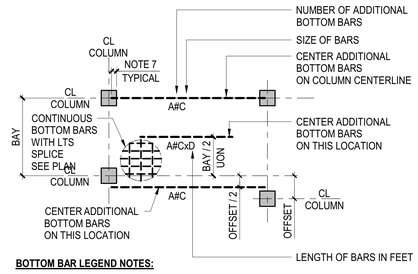
REVISIONS

NO.	DESCRIPTION	DATE

S1010



1 S1020 SECOND FLOOR AND ENTRY LEVEL FRAMING PLAN
1/8" = 1'-0"



BOTTOM BAR LEGEND NOTES:

1. NUMBER / SIZE / LENGTH OF BARS SHOWN IN ONE DIRECTION ONLY SAME NOTATIONS APPLY IN PERPENDICULAR DIRECTION
2. CENTERLINE OF COLUMN MAY NOT COINCIDE W/ GRIDLINES SEE DRAWINGS FOR OFFSET DIMENSION
3. PLACE ADDITIONAL BARS AT SAME SPACING OF CONTINUOUS BARS AND MIDWAY BETWEEN CONTINUOUS BARS UON
4. ALL CONTINUOUS BOTTOM BARS TO EXTEND WITHIN 2 INCHES OF SLAB EDGE
5. A MINIMUM OF 2 BOTTOM BARS MUST EXTEND THROUGH THE COLUMN JOINT IN EACH DIRECTION
6. AT EXTERIOR SUPPORT HOOK 2 BOTTOM BARS THAT PASS THROUGH COLUMN WITH 90° STANDARD HOOK OR IF NECESSARY USE 180° STANDARD HOOK

2 TWO-WAY SLAB BOTTOM BAR REINFORCEMENT LEGEND
NOT TO SCALE

SHEET NOTES:

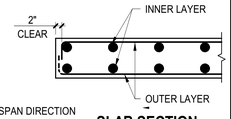
1. TOP OF SLAB AND TOP OF BEAM EL. 170'-0" UON THUS:
   X" - INDICATES CHANGE IN STRUCTURAL SLAB ELEVATION
2. SLABS TO BE THICK NORMALWEIGHT CONCRETE TWO-WAY SLAB WITH DROP PANELS, TYPICAL UON
3. SEE GENERAL NOTES FOR CONCRETE COMPRESSIVE STRENGTH
4. SEE DRAWING FOR SLAB REINFORCEMENT
5. FOR ADDITIONAL INFORMATION REFER TO THE FOLLOWING DRAWINGS:

DRAWING LISTS, GENERAL NOTES AND LOADING DIAGRAMS	S0 SERIES DRAWINGS
TYPICAL FOUNDATION DETAILS	S2 SERIES DRAWINGS
LATERAL SYSTEM ELEVATIONS, CONNECTION FORCES AND DETAILS	S3 SERIES DRAWINGS
CONCRETE SUPERSTRUCTURE SCHEDULES AND DETAILS	S4 SERIES DRAWINGS
STEEL SUPERSTRUCTURE SCHEDULES AND DETAILS	S5 SERIES DRAWINGS
MASONRY DETAILS	S6 SERIES DRAWINGS

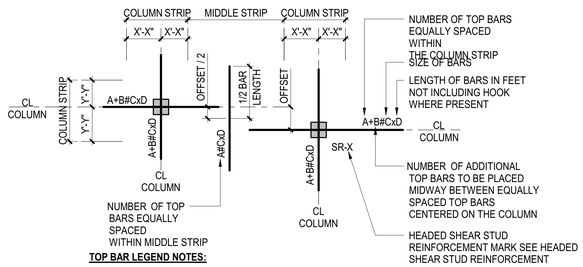
6. SYMBOLS:
   Y" — INDICATES ONE-WAY SLAB Y" THICK AND SPAN DIRECTION
   SX — INDICATES ONE-WAY SLAB SPAN DIRECTION SEE ONE-WAY SCHEDULE AND ONE-WAY SLAB DETAILS
   UP — INDICATES SLOPE IN TOP OF SLAB
7. NOTATIONS:
   CA / CB — INDICATES COLUMN ABOVE / BELOW
   DB — INDICATES ELEVATOR DIVIDER BEAM (NOT FIREPROOFED)
   TR — INDICATES COLUMN FROM ABOVE TRANSFERS

REINFORCEMENT PLAN NOTES:

1. SEE DRAWING SX-XXX FOR FRAMING PLAN
2. SLAB BOTTOM BAR CLEAR COVER X"
3. SLAB TOP BAR CLEAR COVER
4. T/SLAB ELEVATION SEE FRAMING PLAN
5. TWO-WAY SLAB BAR PLACEMENT:
   1. DIRECTION OUTER LAYER
   2. DIRECTION INNER LAYER
6. ONE-WAY SLAB BAR PLACEMENT:
   1. TOP AND BOTTOM BARS PARALLEL TO SPAN DIRECTION
   2. SHRINKAGE AND TEMPERATURE BARS PERPENDICULAR TO SPAN DIRECTION
7. SEE TYPICAL SLAB DETAILS
8. FOR COLUMN STRIP WIDTH SEE TOP BARS LEGEND
9. FOR SLAB CORNERS SUPPORTED BY BEAMS OR WALLS, SEE TYPICAL BEAM / WALL SUPPORTED SLAB EXTERIOR CORNER DETAIL
10. SR-X INDICATES STUDRAIL. SEE STUDRAIL DETAILS



SLAB SECTION



TOP BAR LEGEND NOTES:

1. NUMBER/SIZE/LENGTH OF MIDDLE STRIP BARS SHOWN IN ONE DIRECTION ONLY SAME NOTATION APPLIES IN PERPENDICULAR DIRECTION
2. CENTERLINE OF COLUMN MAY NOT COINCIDE W/ GRIDLINES SEE DRAWINGS FOR OFFSET DIMENSION
3. HOOK ALL TOP BARS THAT PASS THROUGH COLUMN AT EXTERIOR SUPPORT WITH 90° STANDARD HOOK OR IF NECESSARY USE 180° STANDARD HOOK

3 TWO-WAY SLAB TOP BAR REINFORCEMENT LEGEND
NOT TO SCALE

GOVERNMENT OF THE DISTRICT OF COLUMBIA
PERMIT OPERATIONS DIVISION
PLANS APPROVED
Permit No. FD1800040 Date 08/23/19

These plans are conditionally approved as submitted or noted during plan review and are subject to field inspection. Approved plans must be kept on site and are needed for all inspections. No changes or modifications to these plans. Changes require a revision permit with the revised plans. Trade Permits are required for trade work. e.g. Electrical or Plumbing

Plumbing Review - Syed Hashmi - 08-23-2019
Structural Review - Bihon Debessai - 08-23-2019
DDEE SE-SW Review - Nykia Barnes - 08-23-2019
DDEE GAR Review - Nykia Barnes - 08-23-2019
DC Water Review - Vahid Bilvardi - 08-23-2019

DCRA APPROVAL STAMP

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QEA PROJECT #: 31610100
TT PROJECT #: M16242.00

2ND FLOOR AND ENTRY LEVEL FRAMING PLAN

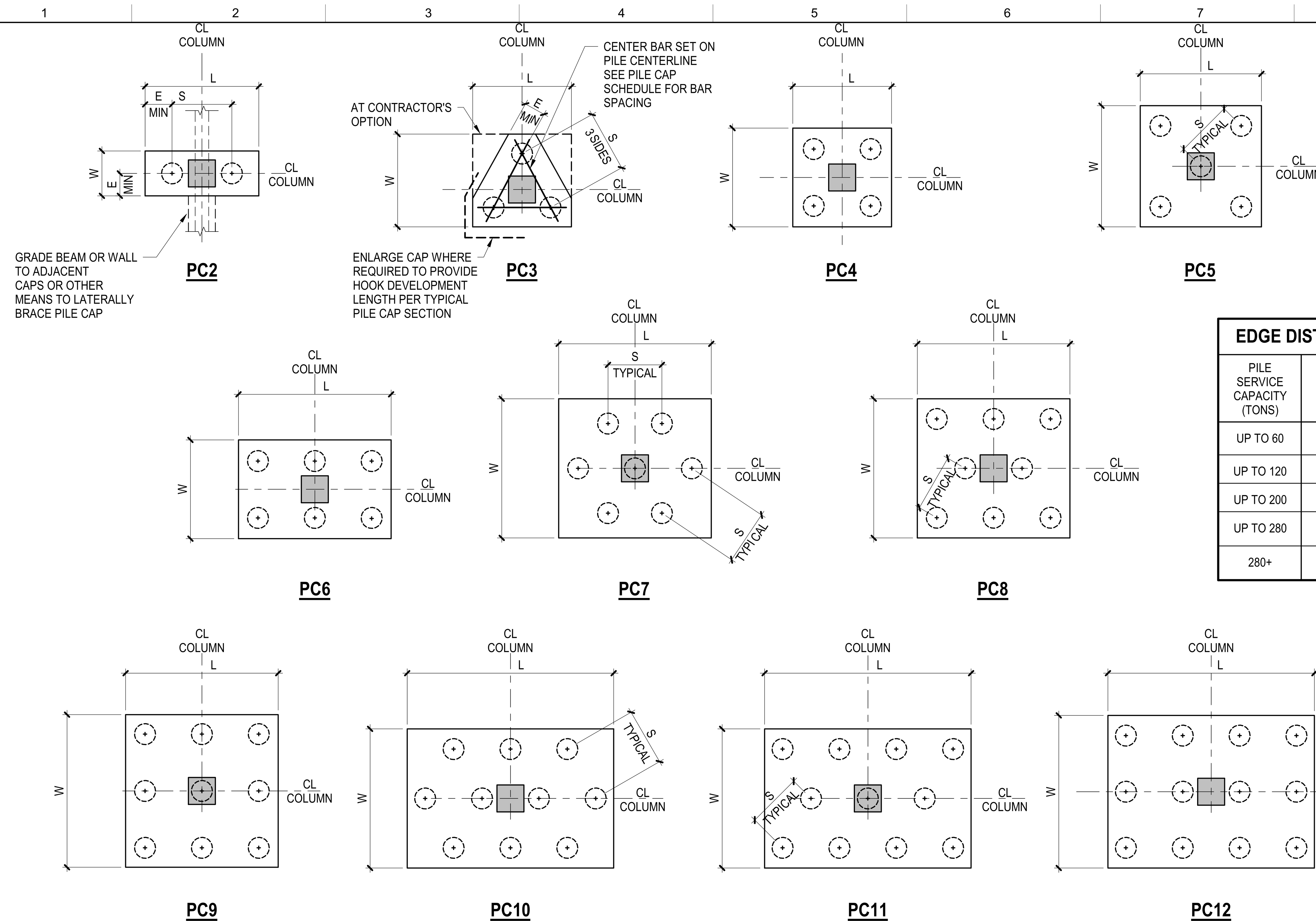
DISTRICT OF COLUMBIA MARK J. TAMARO No. 900410 REGISTERED PROFESSIONAL ENGINEER

FOUNDATION TO GRADE
03/03/17

REVISIONS

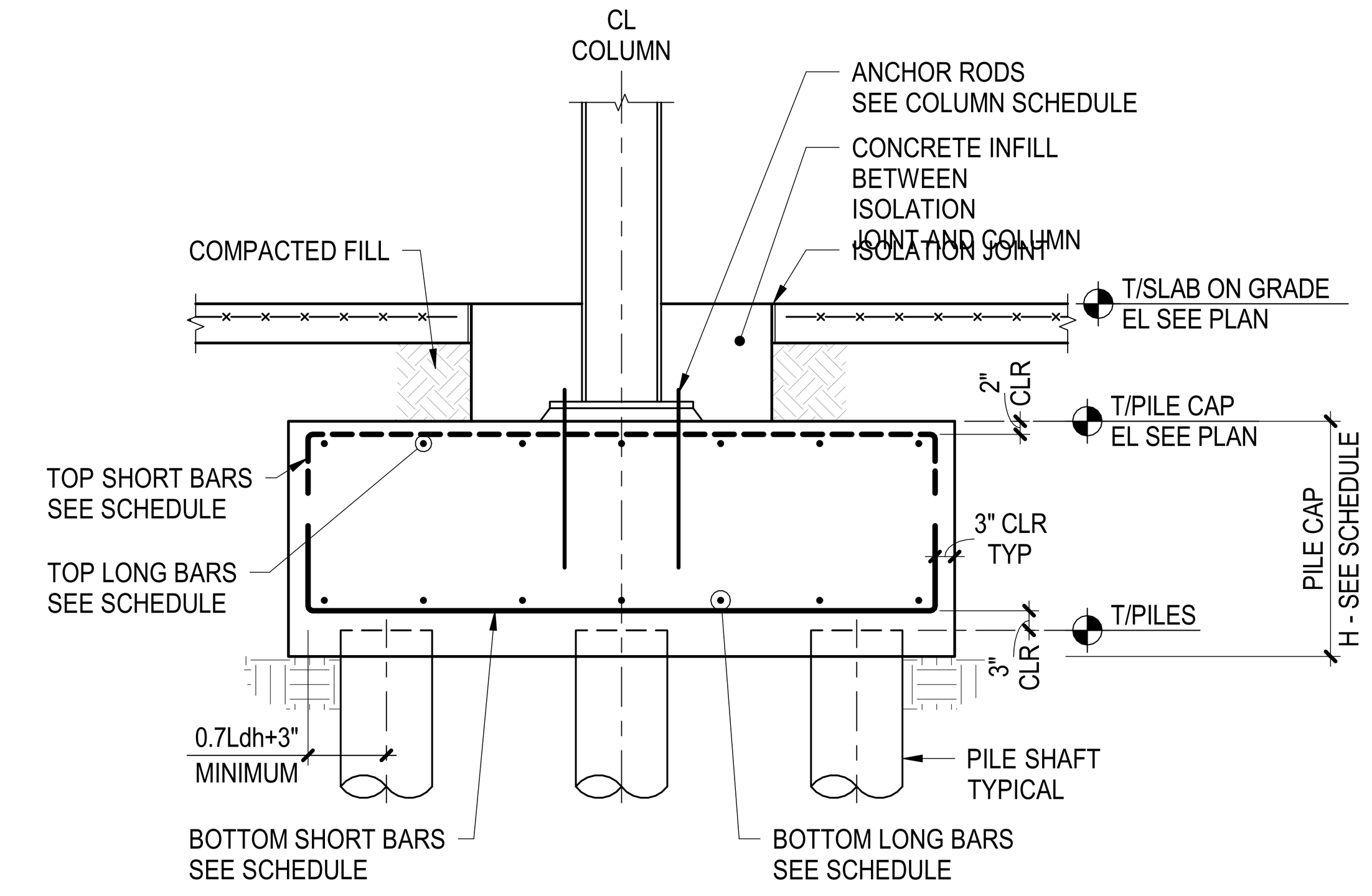
NO.	DESCRIPTION	DATE

S1020

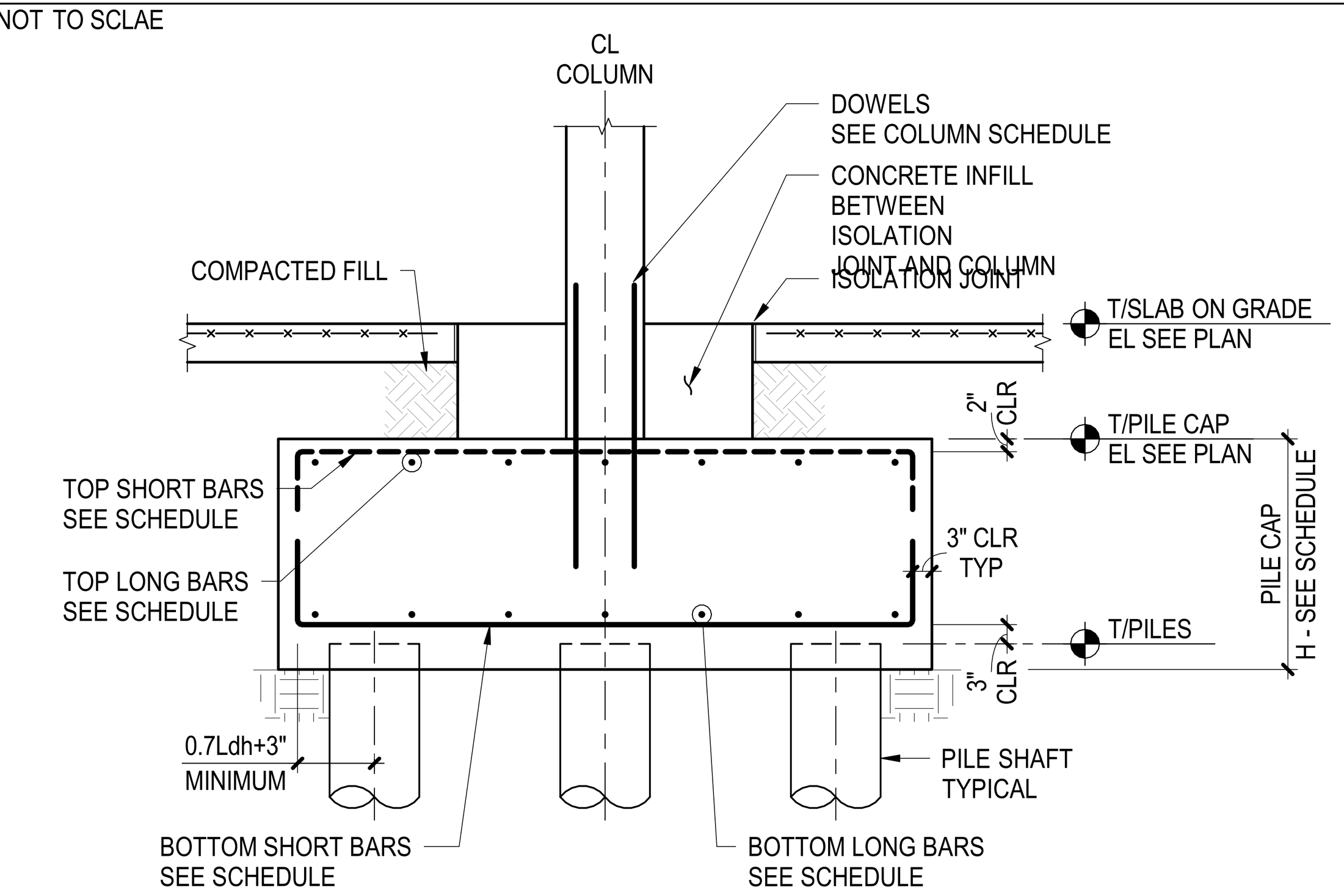


EDGE DISTANCE	
PILE SERVICE CAPACITY (TONS)	E MINIMUM (IN)
UP TO 60	15
UP TO 120	21
UP TO 200	27
UP TO 280	30
280+	36

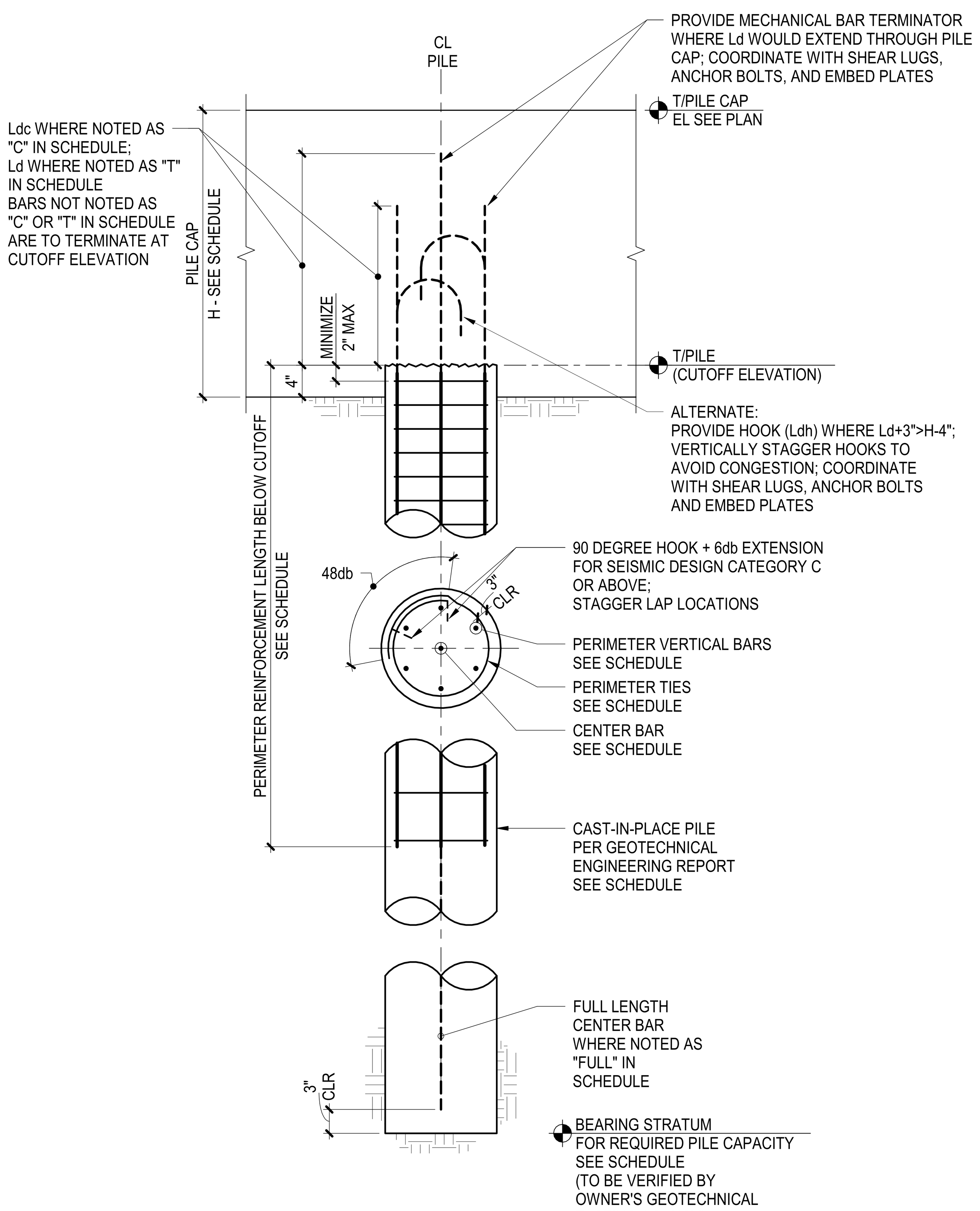
1 CAST-IN-PLACE PILE CAP LAYOUT DETAILS
NOT TO SCALE



3 TYPICAL CAST-IN-PLACE PILE CAP SECTION - STEEL COLUMN
NOT TO SCLAE



4 TYPICAL CAST-IN-PLACE PILE CAP SECTION - CONCRETE COLUMN
NOT TO SCLAE



2 TYPICAL CAST-IN-PLACE PILE DETAIL
NOT TO SCLAE

CAST-IN-PLACE PILE SCHEDULE f'c = SEE GENERAL NOTES

PILE TYPE	PILE DIAMETER (IN)	PILE SERVICE CAPACITY (TONS)	PILE UPLIFT SERVICE CAPACITY (TONS)	PILE LATERAL SERVICE CAPACITY AT X" DEFORMATION (TONS)	PERIMETER REINFORCEMENT: VERTICAL BAR	PERIMETER REINFORCEMENT: LENGTH BELOW CUT OFF	PERIMETER REINFORCEMENT: TIES 50 FT FROM TOP OF PILE	PERIMETER REINFORCEMENT: TIES REMAINDER OF CAGE	CENTER REINFORCEMENT: CENTER BAR	CENTER REINFORCEMENT: LENGTH BELOW CUT OFF	REMARKS
P18C	18	135	-	-	6-#8	8-#9	#4@12"	#4@12"	-	-	
P18TF	18	135	35	11 TONS @ 1/4"	8-#9	8-#9	#4@8"	#4@12"	-	-	

KEY:

PXXC - COMPRESSION PILE
PXXT - TENSION PILE - WITH UPLIFT
PXXCP - LATERAL PILE WITH PINNED HEAD - NO UPLIFT
PXXTP - LATERAL PILE WITH PINNED HEAD - WITH UPLIFT
PXXCF - LATERAL PILE FIXED HEAD - NO UPLIFT
PXXTF - LATERAL PILE FIXED HEAD - WITH UPLIFT

NOTES:

1. PILE REINFORCING IS PROVIDED FOR PRICING INFORMATION ONLY. FINAL PILE DESIGN TO BE PROVIDED BY THE AUGER CAST-IN-PLACE PILE CONTRACTOR.

5 CAST-IN-PLACE PILE SCHEDULE
NOT TO SCALE

PILE CAP SCHEDULE f'c = SEE GENERAL NOTES

PILE CAP MARK	PILE TYPE	H (IN)	L (IN)	W (IN)	S (IN)	REINFORCEMENT: BOTTOM LONG BARS	REINFORCEMENT: BOTTOM SHORT BARS	REINFORCEMENT: TOP LONG BARS	REINFORCEMENT: TOP SHORT BARS	REMARKS
PC3	P18C	3'-0"	7'-6"	6'-11"	4'-6"	10-#9				
PC4	P18C	3'-0"	7'-6"	7'-6"		10-#9				
MF1	P18TF	SEE PLAN				SEE PLAN				
MF2	P18TF	SEE PLAN				SEE PLAN				
MF3	P18TF	SEE PLAN				SEE PLAN				

6 PILE CAP SCHEDULE
NOT TO SCALE

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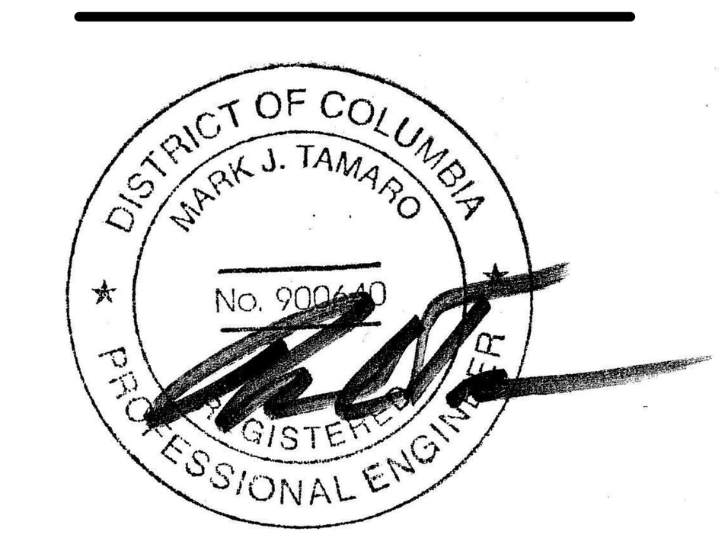
QEA PROJECT #: 31610100
TT PROJECT #: M16242.00

TYPICAL CAST-IN-PLACE PILE DETAILS AND SCHEDULES

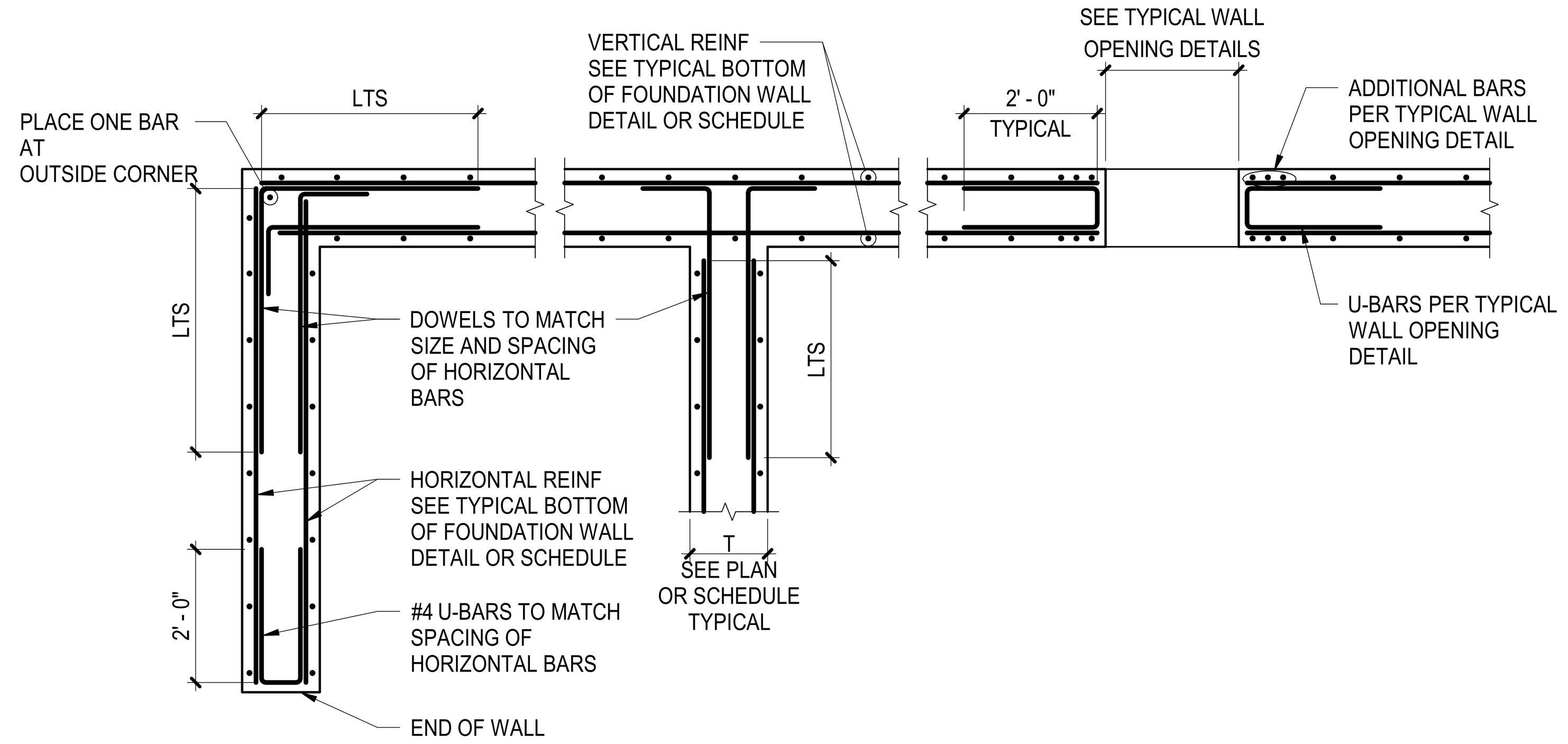


FOUNDATION TO GRADE
03/03/17

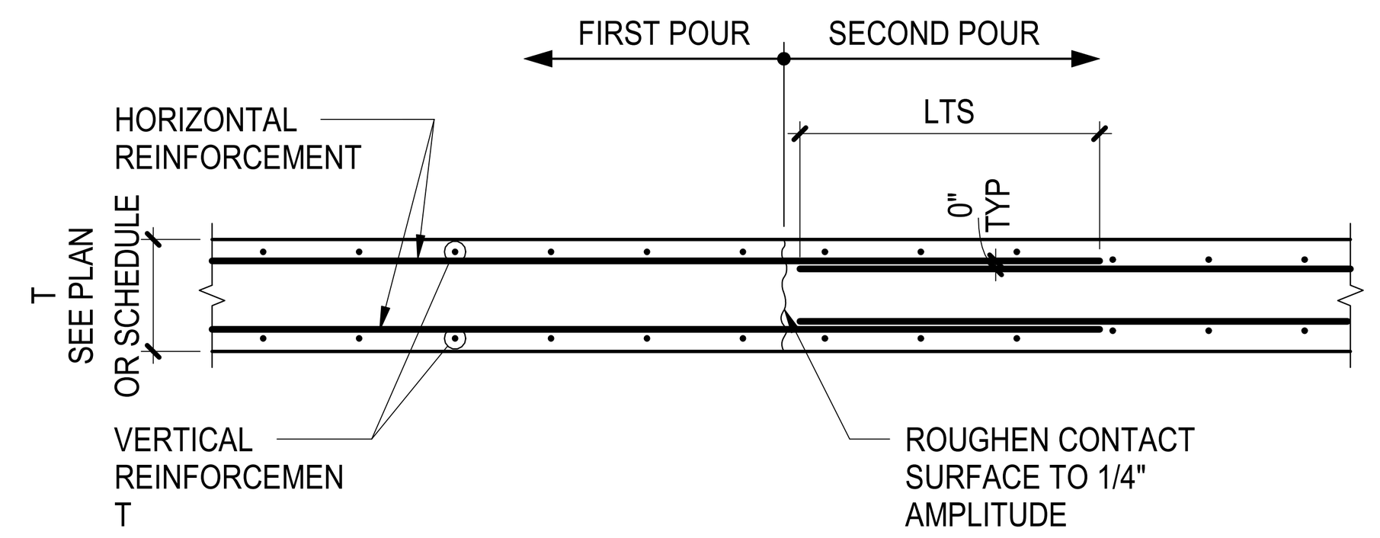
REVISIONS

NO.	DESCRIPTION	DATE

S2010



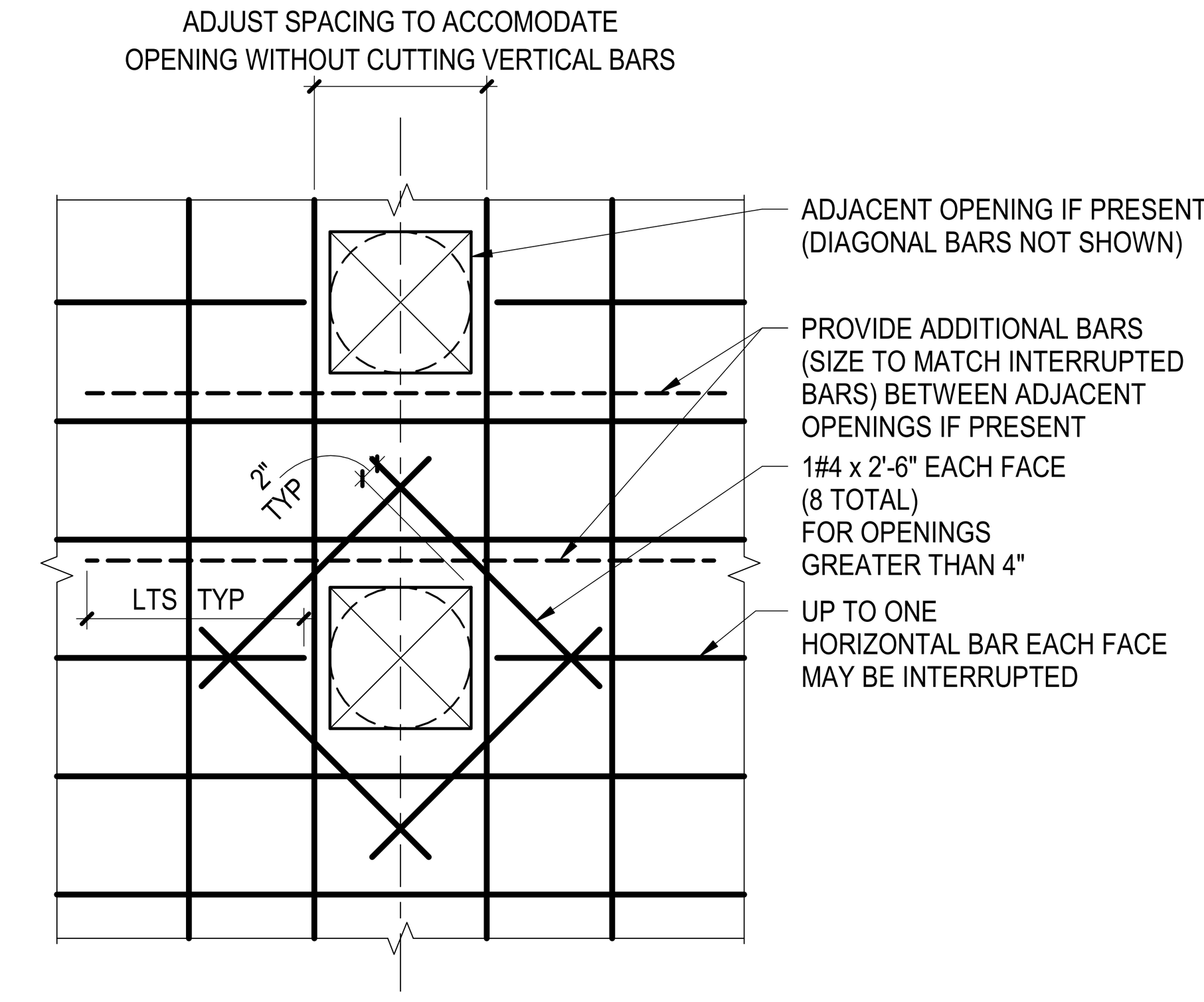
1 TYPICAL FOUNDATION WALL DETAIL - PLAN
NOT TO SCALE



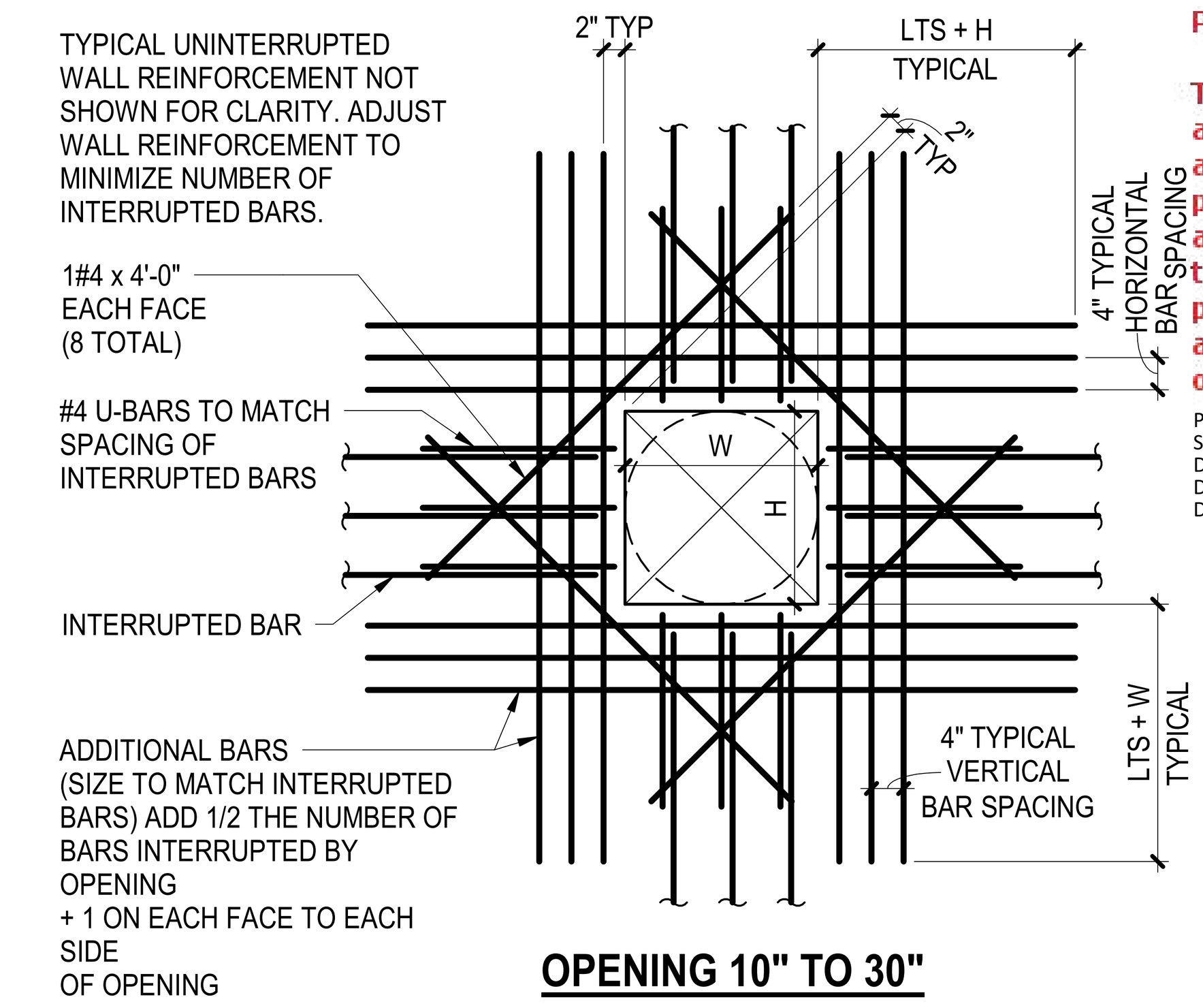
NOTES:

1. SEE ARCHITECTURAL DOCUMENTS FOR WATERSTOP REQUIREMENTS
2. SEE GENERAL NOTES FOR CONSTRUCTION JOINT MAXIMUM SPACING

2 TYPICAL VERTICAL CONSTRUCTION JOINT IN CONCRETE WALL
NOT TO SCALE



OPENING LESS THAN 10"

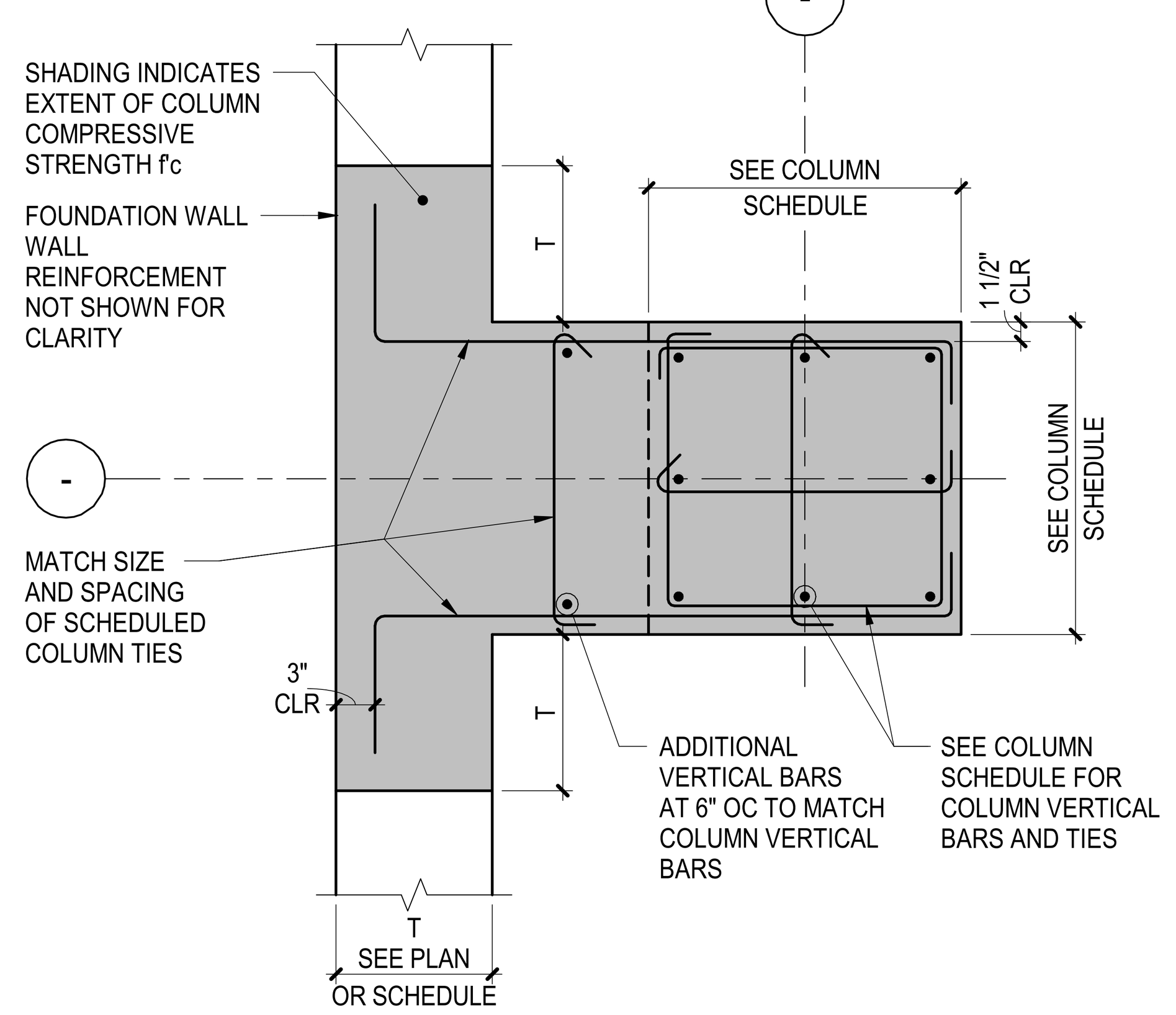


OPENING 10" TO 30"

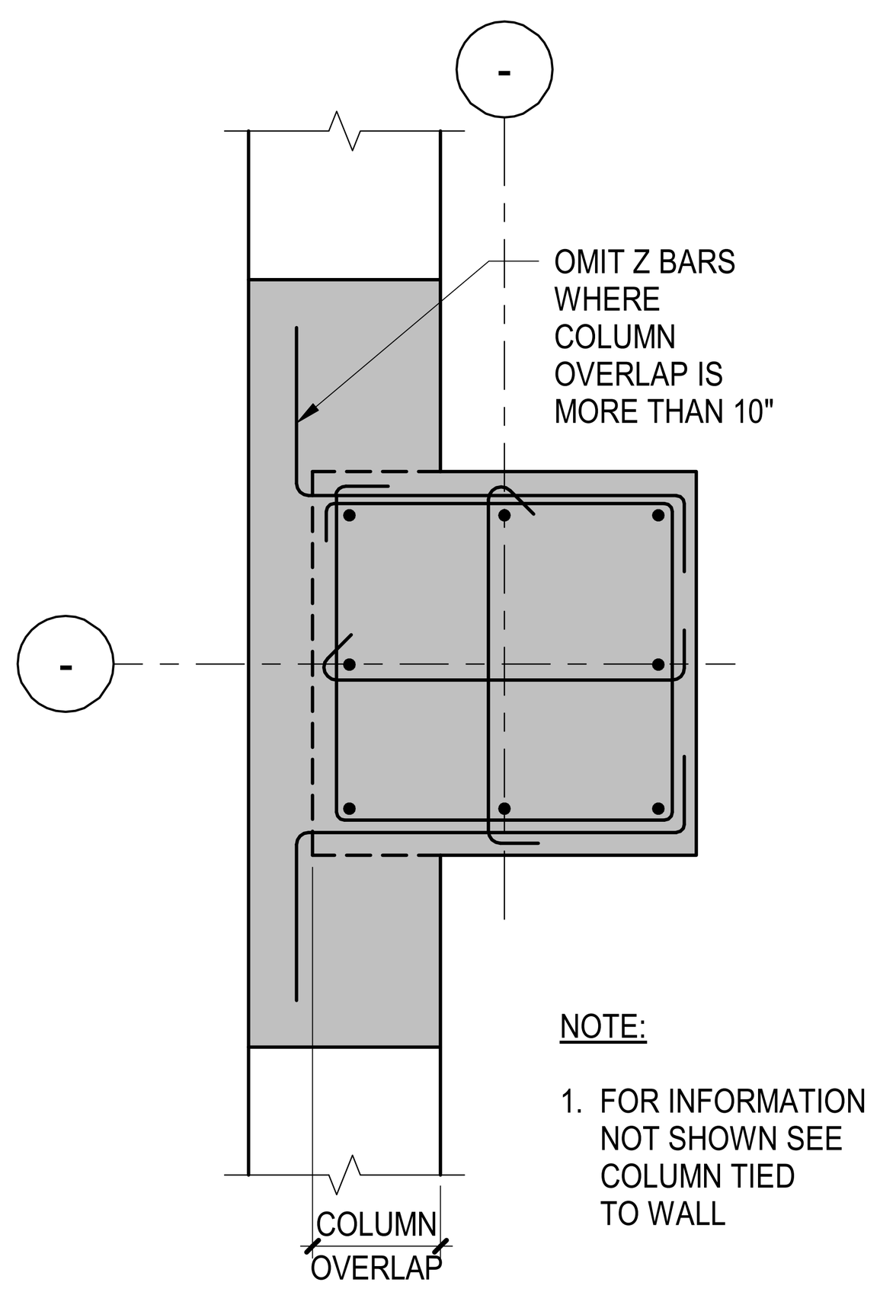
NOTES:

1. MINIMUM CLEAR DISTANCE BETWEEN OPENINGS IS 2 TIMES MAXIMUM OPENING SIZE
2. FOR OPENINGS NOT SHOWN ON STRUCTURAL DRAWINGS, CONTRACTOR TO SUBMIT LOCATIONS AND SPACING TO STRUCTURAL ENGINEER FOR WRITTEN APPROVAL

3 TYPICAL WALL OPENING DETAILS
NOT TO SCALE



COLUMN TIED TO WALL

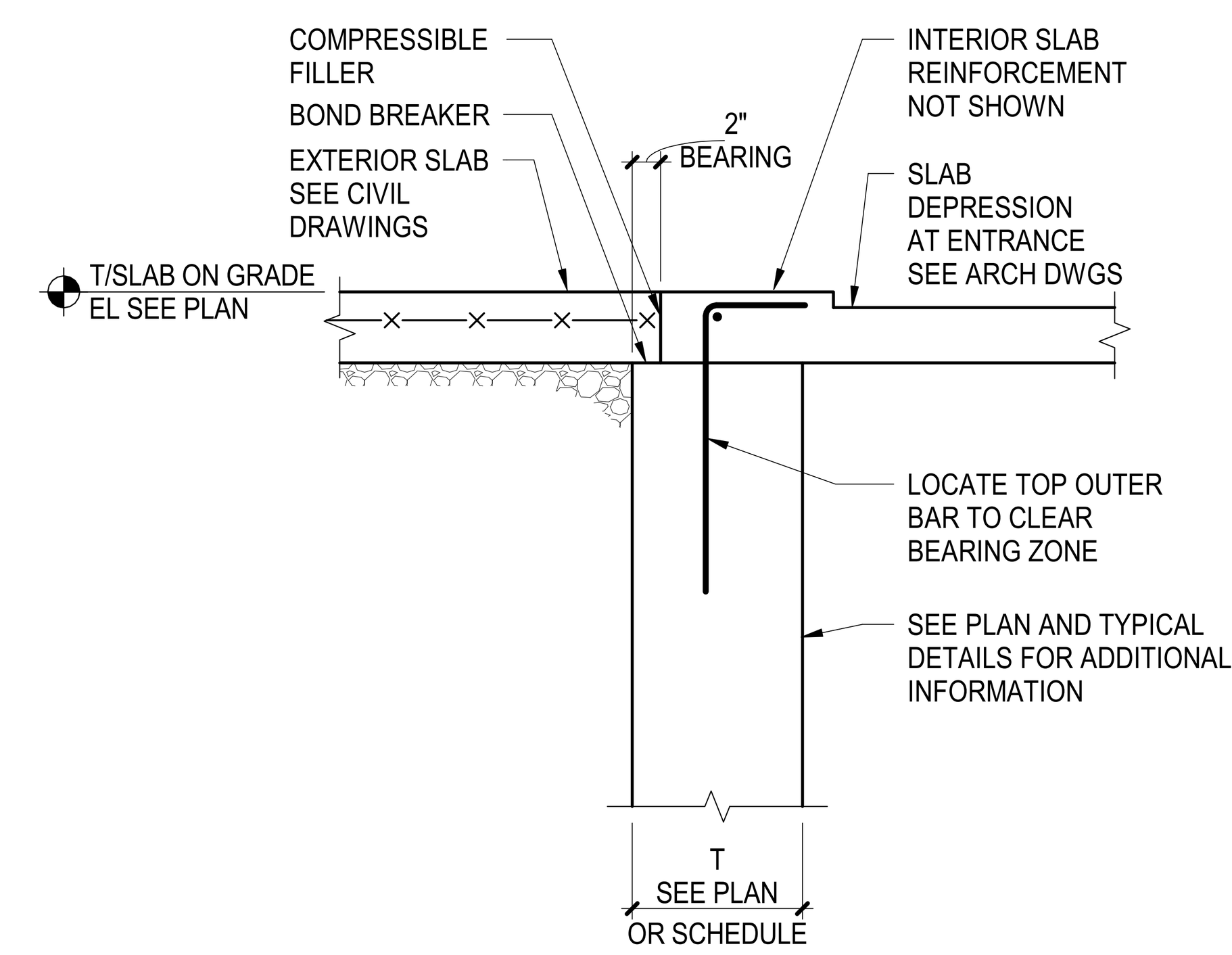


NOTE:

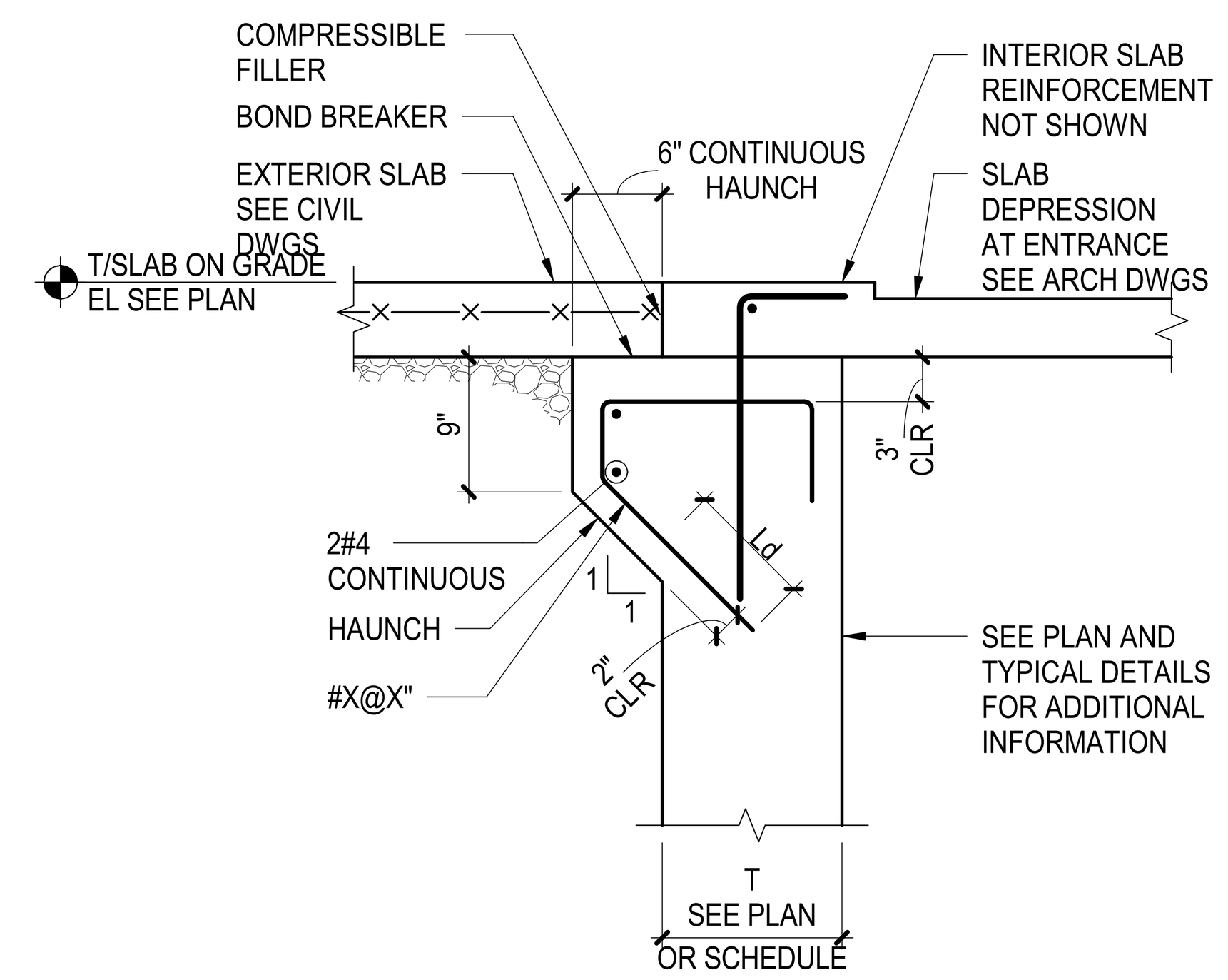
1. FOR INFORMATION NOT SHOWN SEE COLUMN TIED TO WALL

COLUMN OVERLAPS WALL

4 COLUMN OR PIER AT FOUNDATION WALL
NOT TO SCALE



5 TYPICAL SECTION AT ENTRANCE
NOT TO SCALE



6 TYPICAL SECTION AT ENTRANCE WITH HAUNCH
NOT TO SCALE

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QEA PROJECT #: 31610100
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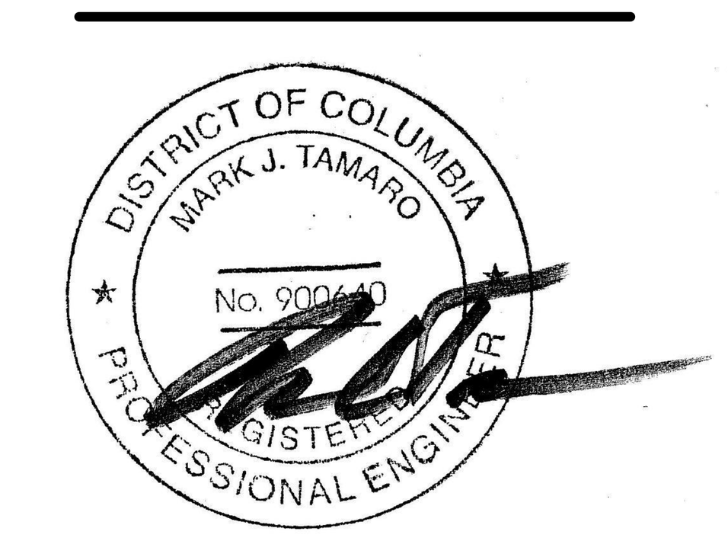
TYPICAL FOUNDATION WALL DETAILS

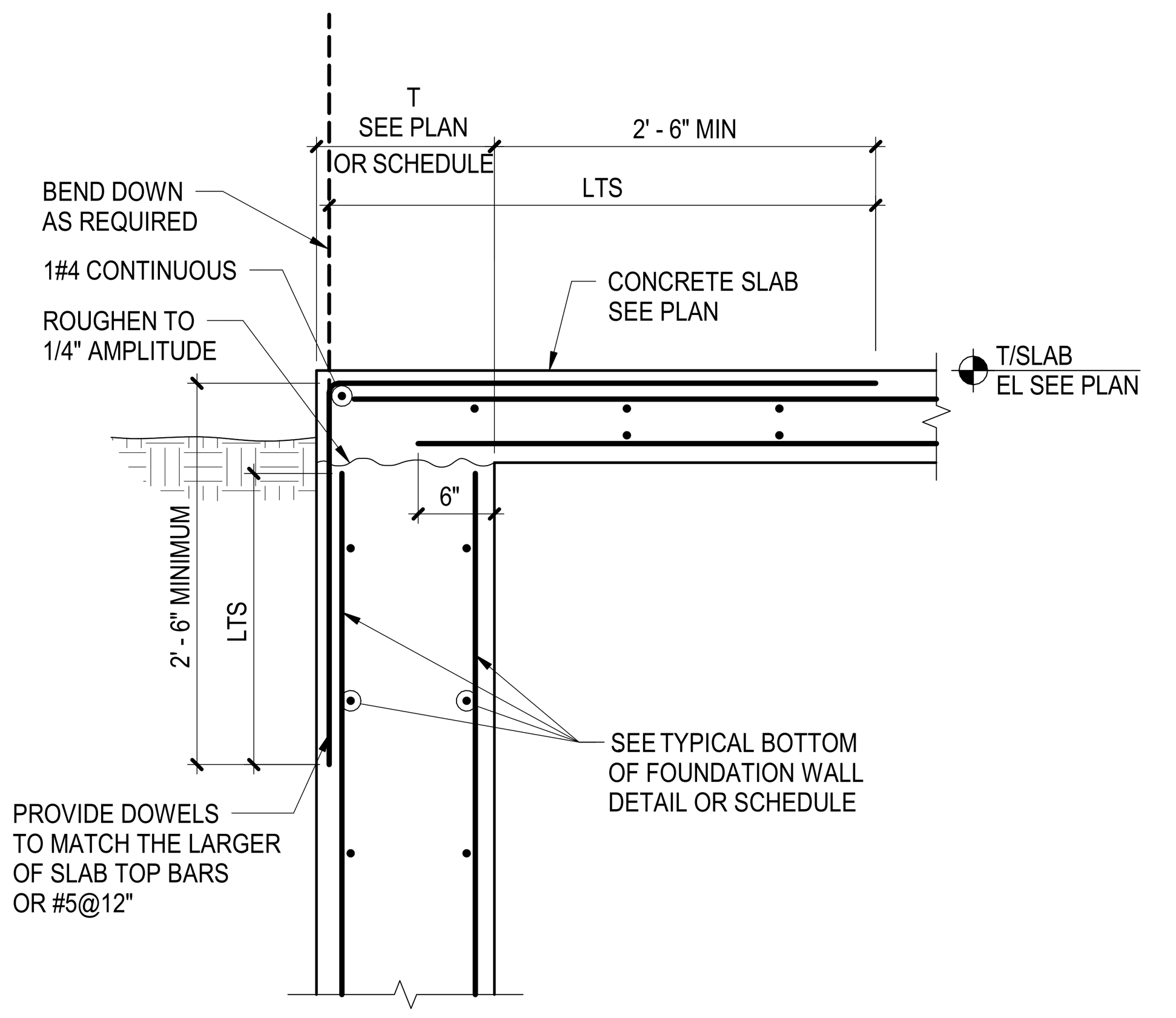


FOUNDATION TO GRADE
03/03/17

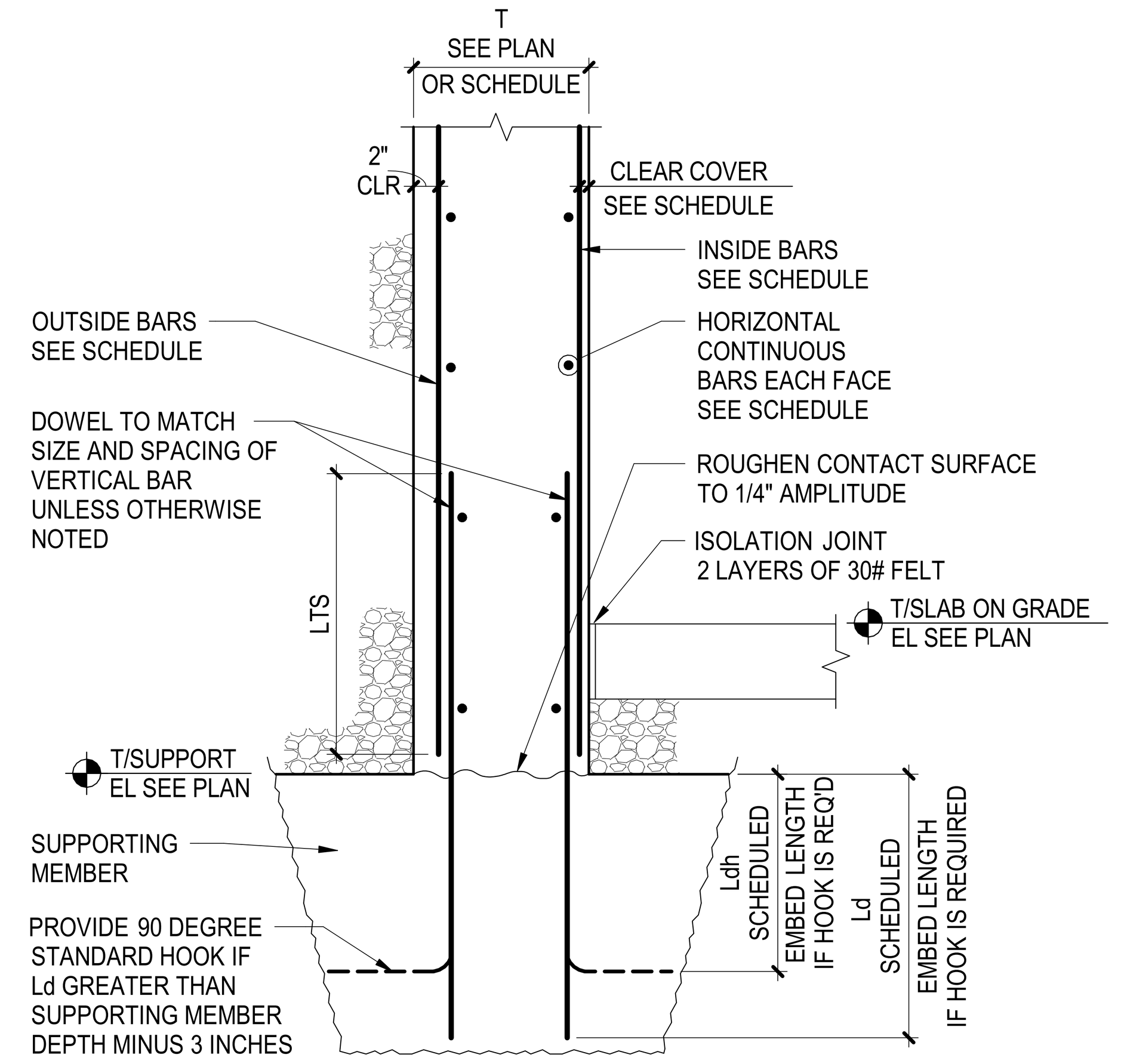
REVISIONS

NO.	DESCRIPTION	DATE

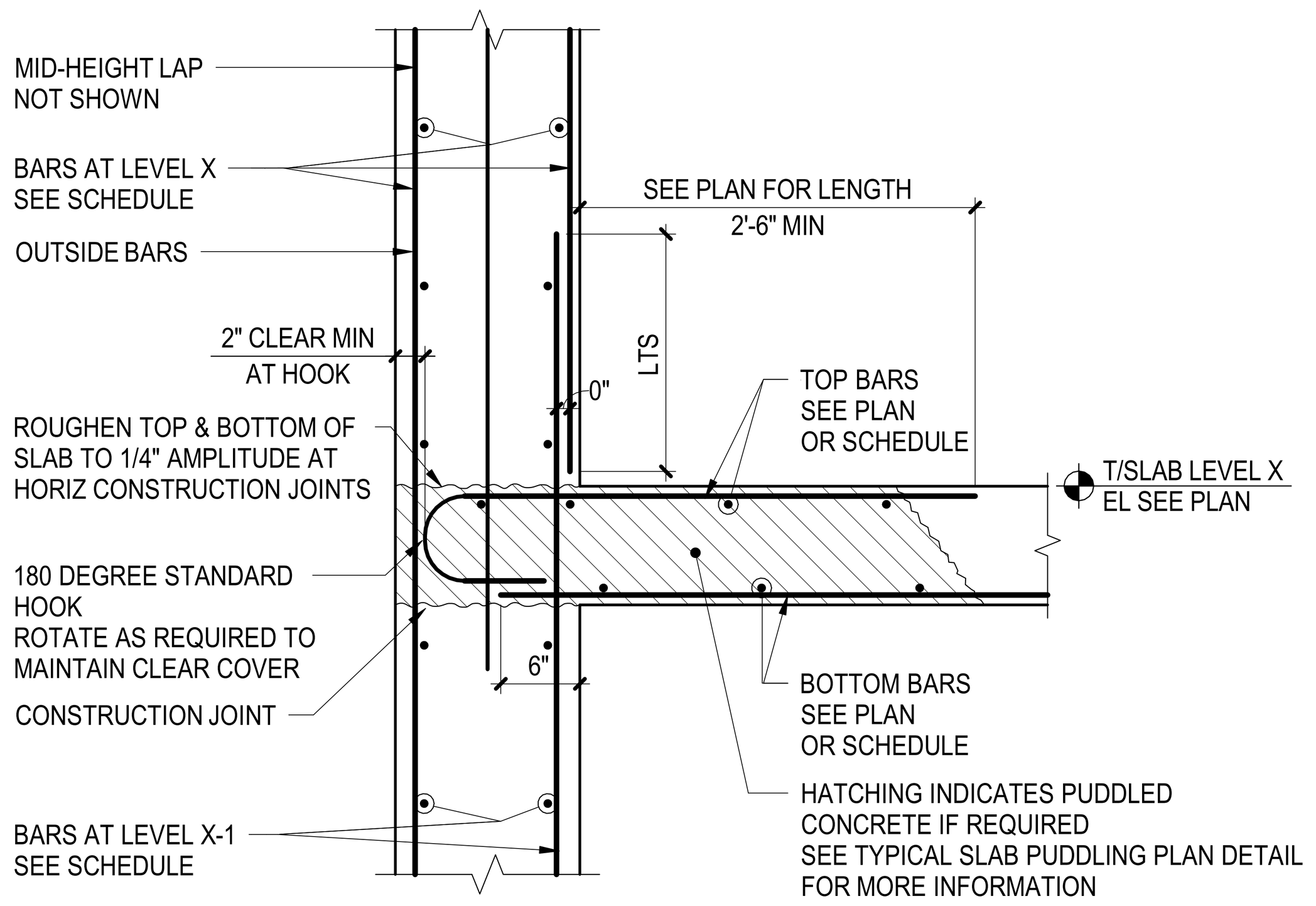
S2030



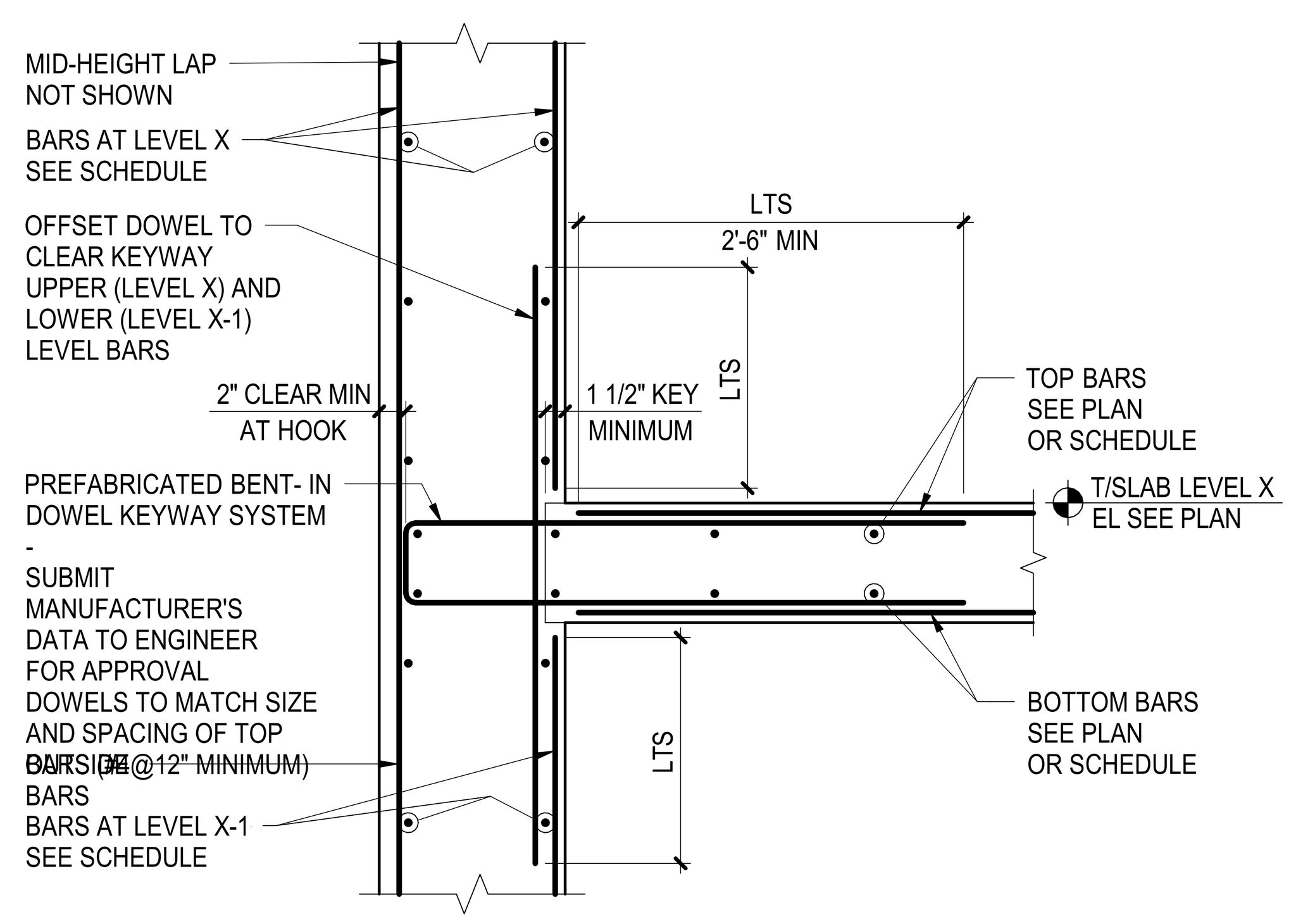
1 TYPICAL TOP OF FOUNDATION WALL WITH CONCRETE SLAB
NOT TO SCALE



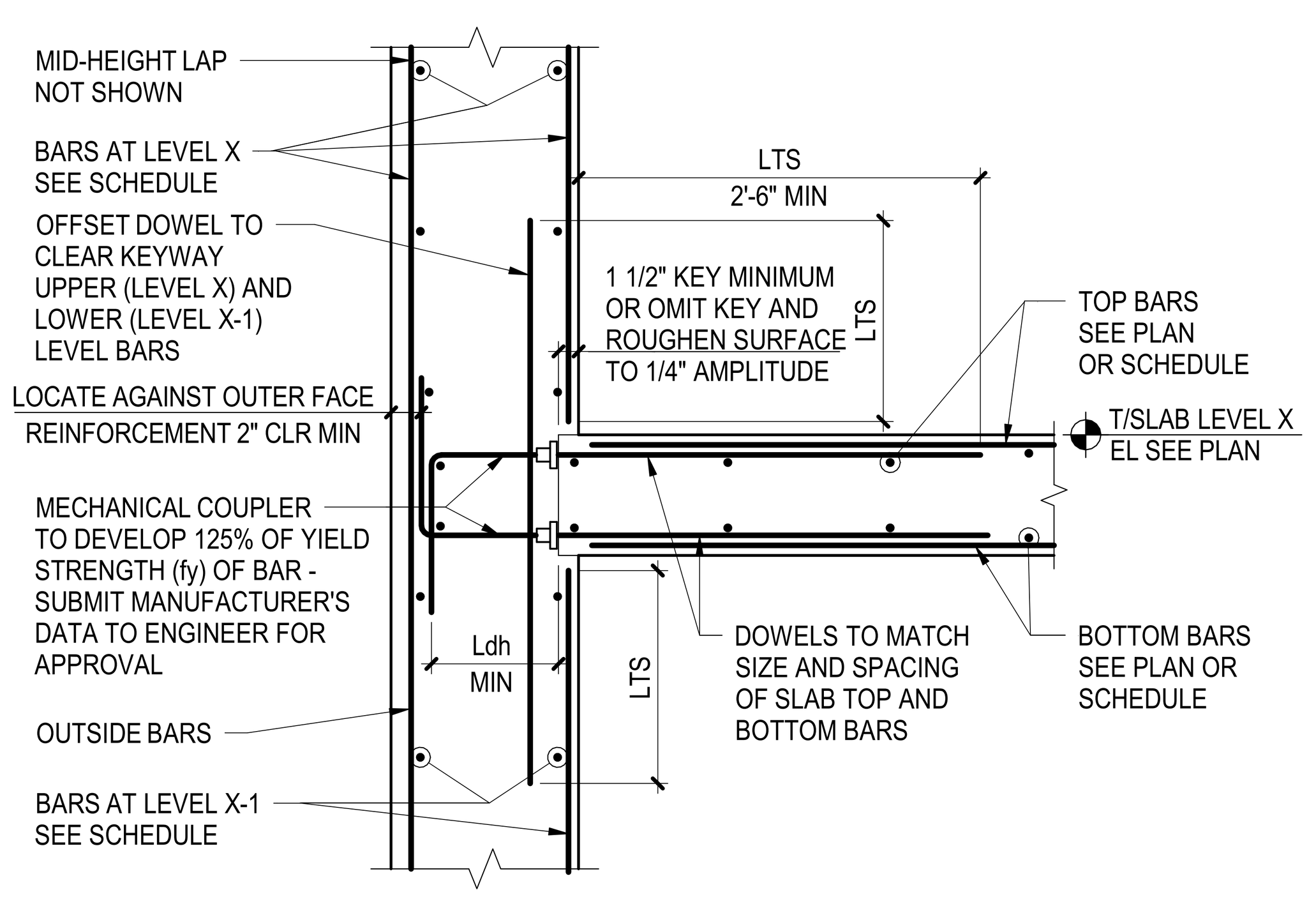
2 TYPICAL BOTTOM OF FOUNDATION WALL
NOT TO SCALE



A OPTION A - WALL POURED TO UNDERSIDE OF SLAB



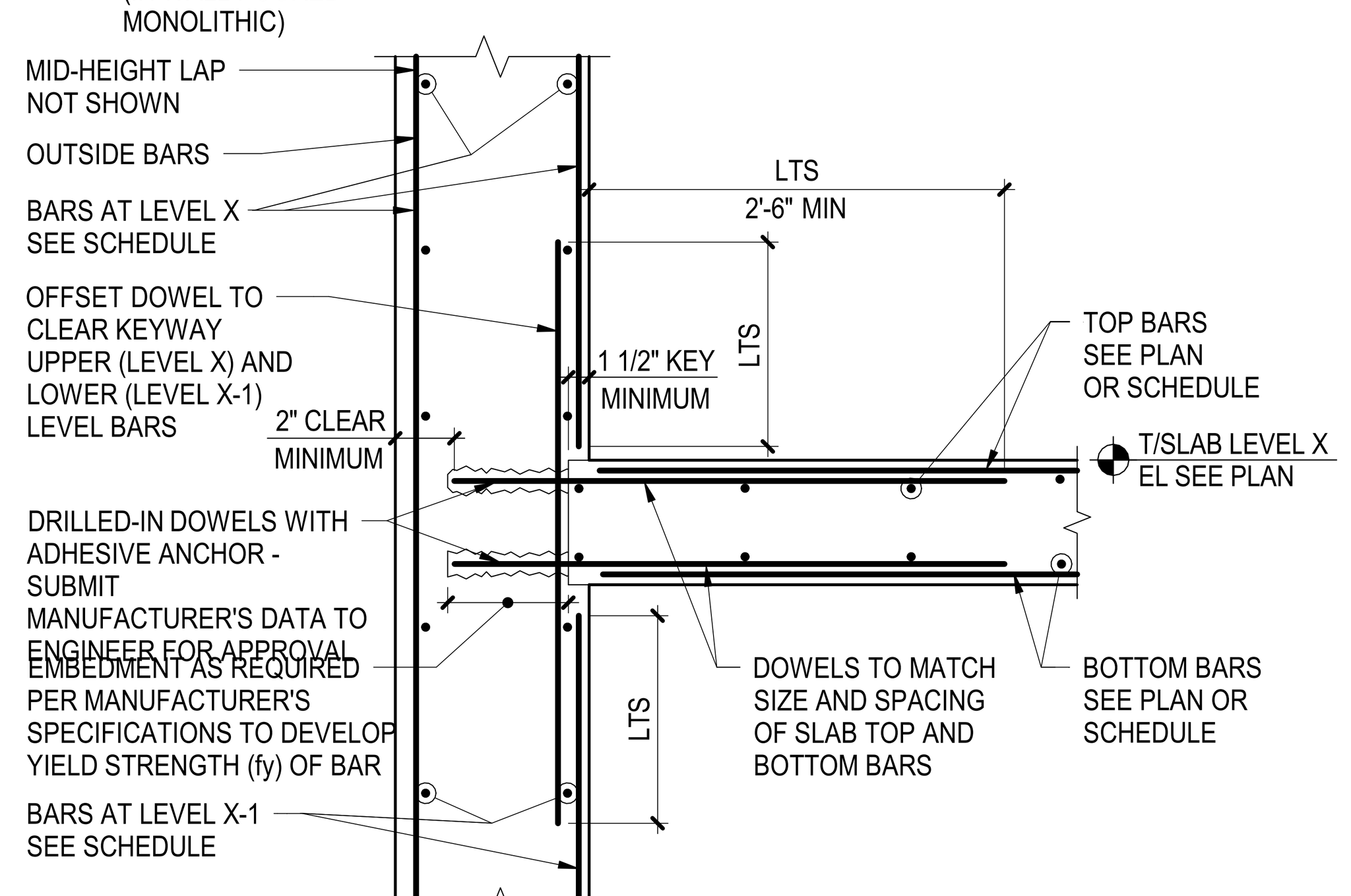
B OPTION B - PREFABRICATED DOWELS AND KEYWAY
(IN WALL POURED
MONOLITHIC)



C OPTION C - MECHANICAL COUPLERS
(IN WALL POURED
MONOLITHIC)

NOTES:

1. SEE GENERAL NOTES FOR LAP SPLICE LOCATIONS FOR VERTICAL WALL REINFORCEMENT



NOTES:

1. OPTION D IS NOT TO BE USED WITHOUT PRIOR WRITTEN APPROVAL BY THE SER
THE CONTRACTOR'S SUBMITTAL MUST CONSIDER AT A MINIMUM THE FOLLOWING:
   A. EMBEDMENT TO CONSIDER BAR SPACING AND EDGE CONDITION
   B. WALL REINFORCEMENT CONGESTION INCLUDING LAPS
   C. WALL THICKNESS TO DEVELOP REINFORCEMENT
   D. DESCRIPTION OF QUALITY CONTROL PROGRAM TO DEMONSTRATE ANCHORS ACHIEVE FULL STRENGTH OF DOWELS
   E. ANCHORS SHALL BE PULL TESTED FOLLOWING ACI STATISTICAL SAMPLING METHOD FOR TESTING FREQUENCY

D OPTION D - DRILLED IN DOWELS
(IN WALL POURED
MONOLITHIC)

3 TYPICAL CONCRETE SLAB SUPPORT DETAILS AT FOUNDATION WALL
NOT TO SCALE

FOUNDATION WALL SCHEDULE

MARK	CONCRETE STRENGTH f'c (PSI)	LEVEL X	T WALL THICKNESS (INCH)	CLEAR COVER (INCH)	OUTSIDE BARS	INSIDE BARS	HORIZONTAL CONTINUOUS BARS	REMARKS
FW1	4,000		10	3/4	#4@12"	#4@12"	#4@12"	NOT DESIGNED FOR LATERAL PRESSURE IN OUT OF PLANE DIRECTION
FW2	4,000		16	3/4	#8@12"	#4@12"	#4@12"	
FW3	4,000		18	3/4	#8@6"	#4@12"	#4@12"	
FW4	4,000		14	3/4	#8@6"	#4@12"	#4@12"	CLR COVER IS SAME EA FACE. OUTSIDE BARS ARE LOCATED AT WEST FACE OF WALL. ALL OTHER DETAILS SAME AS TYPICAL FOUNDATION WALL

4 FOUNDATION WALL SCHEDULE
NOT TO SCALE

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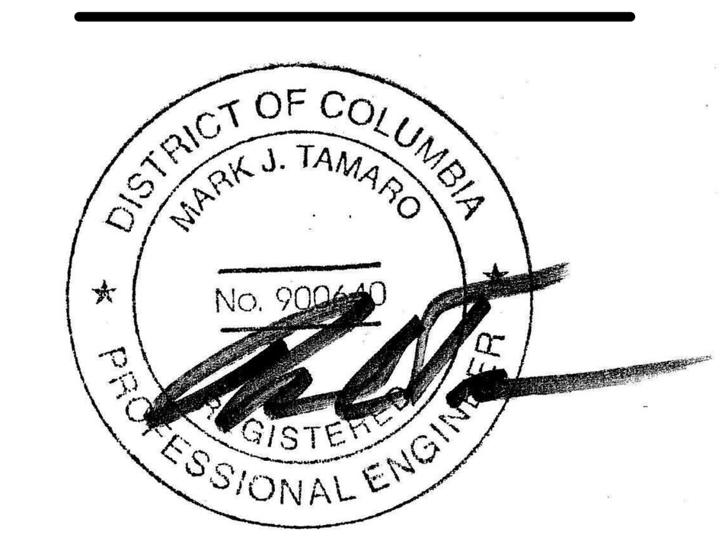
QEA PROJECT #: 31610100
TT PROJECT #: M16242.00

TYPICAL FOUNDATION WALL DETAILS AND SCHEDULE

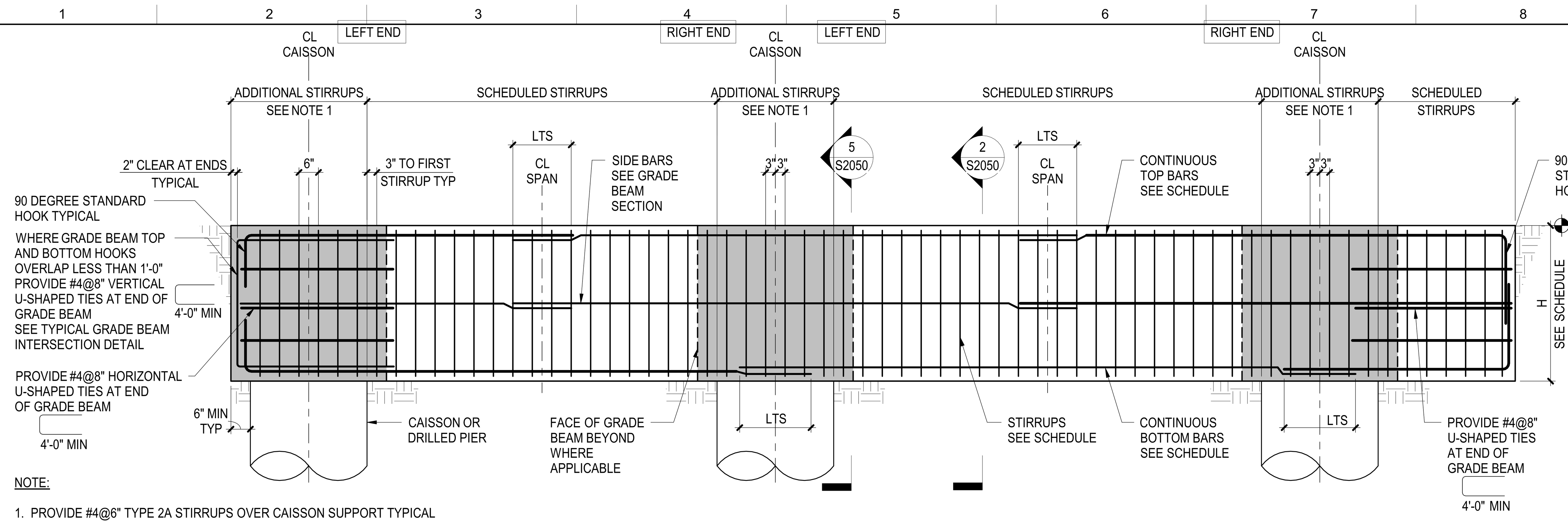


FOUNDATION TO GRADE
03/03/17

REVISIONS

NO.	DESCRIPTION	DATE

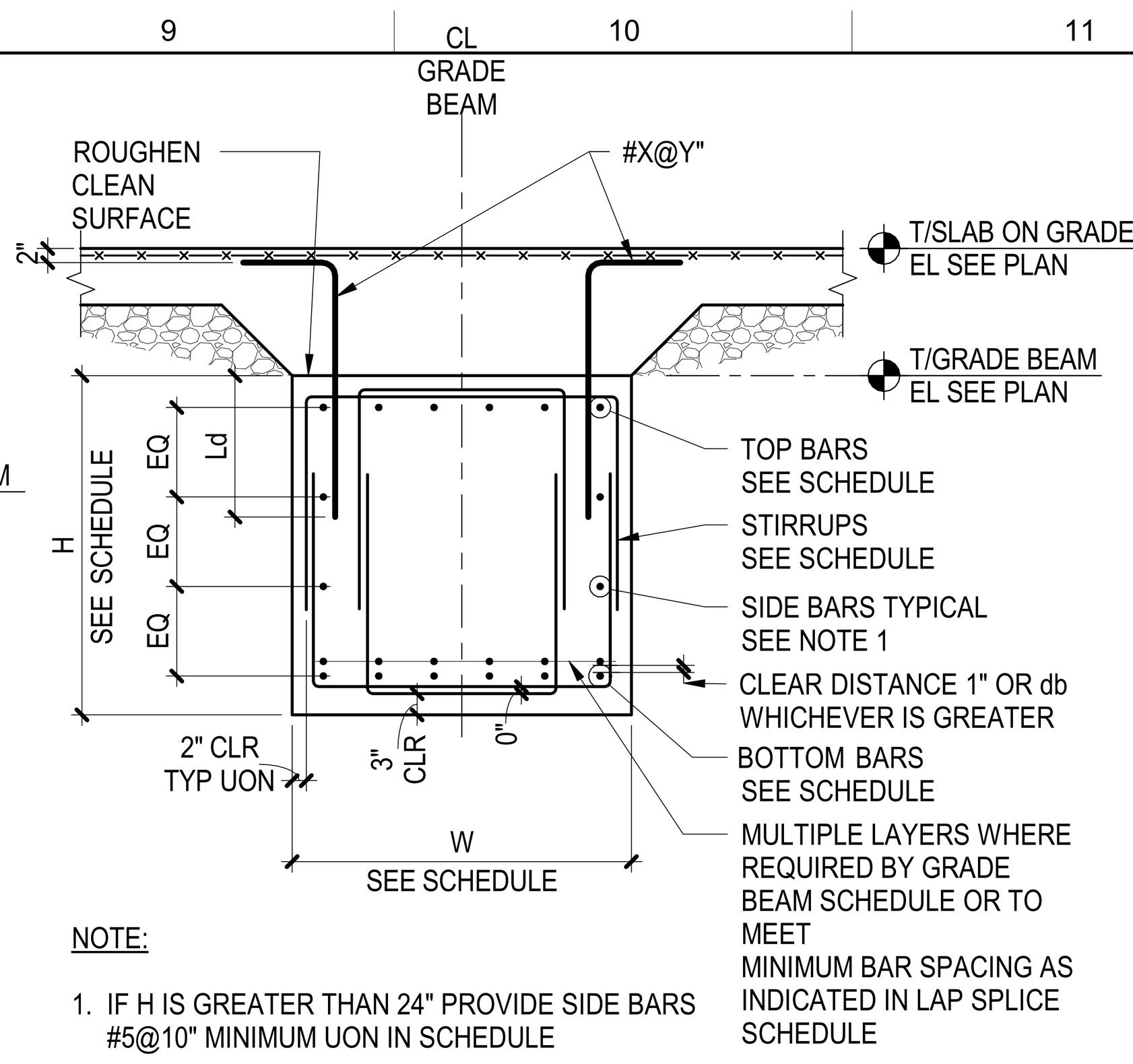
S2040



NOTE:

1. PROVIDE #4@6" TYPE 2A STIRRUPS OVER CAISSON SUPPORT TYPICAL

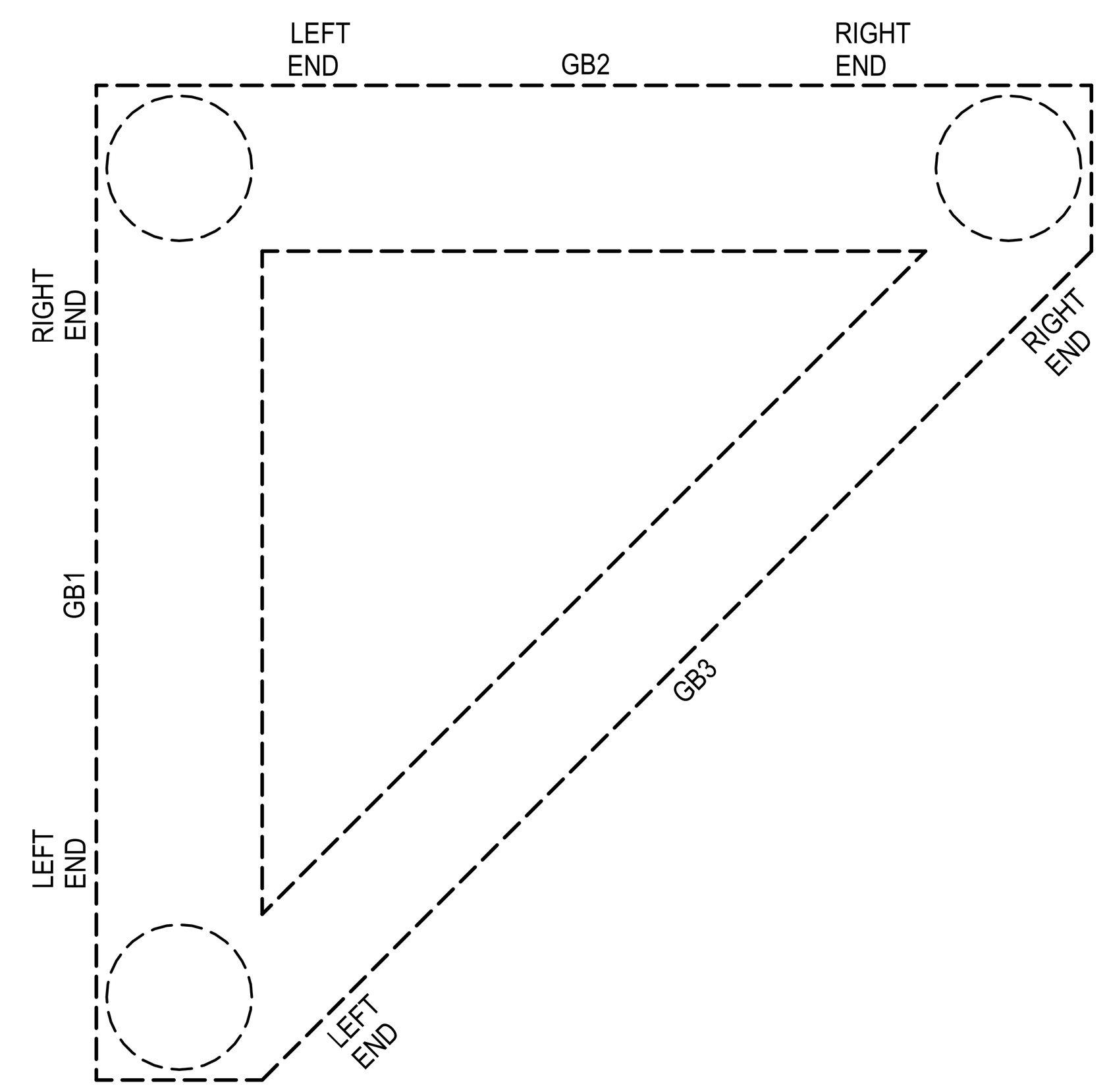
1 TYPICAL GRADE BEAM ELEVATION
NOT TO SCALE



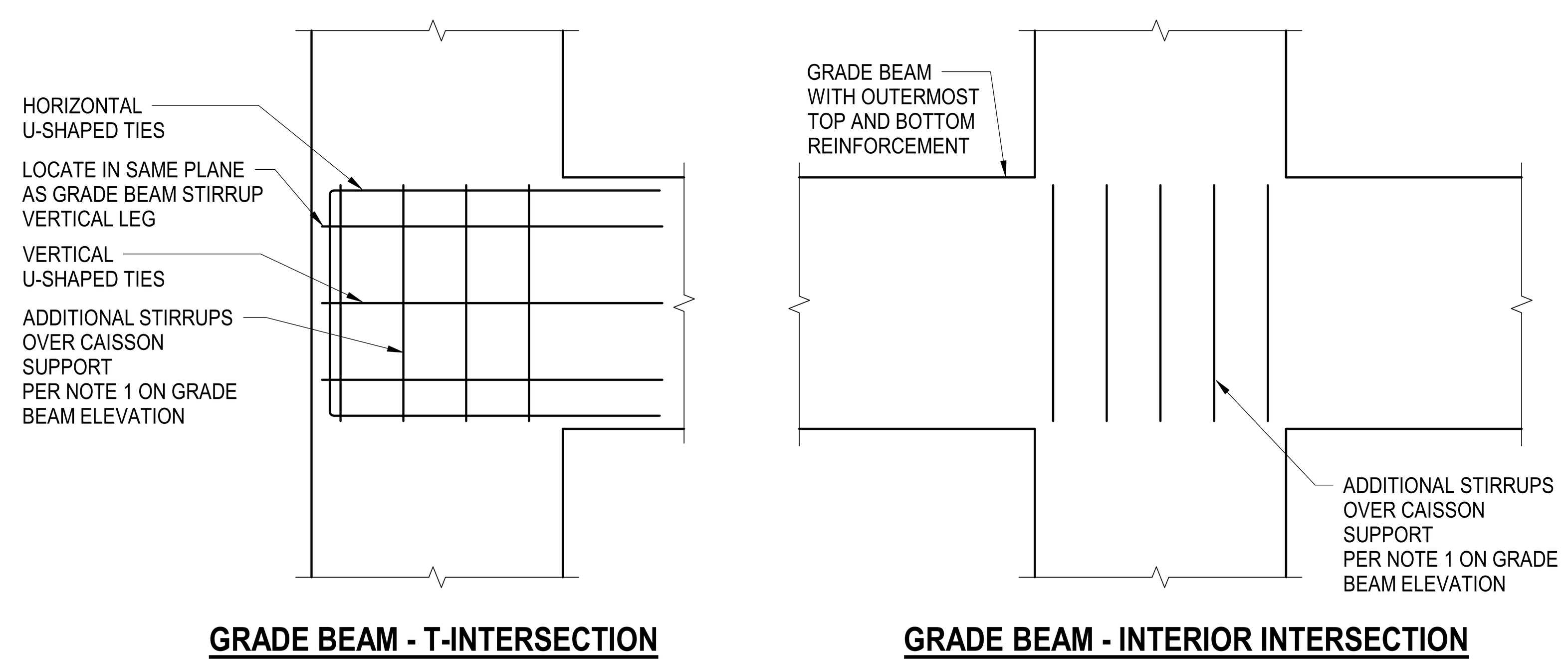
NOTE:

1. IF H IS GREATER THAN 24" PROVIDE SIDE BARS #5@10" MINIMUM UON IN SCHEDULE

2 GRADE BEAM SECTION - BASE SHEAR TRANSFER CONDITION
NOT TO SCALE



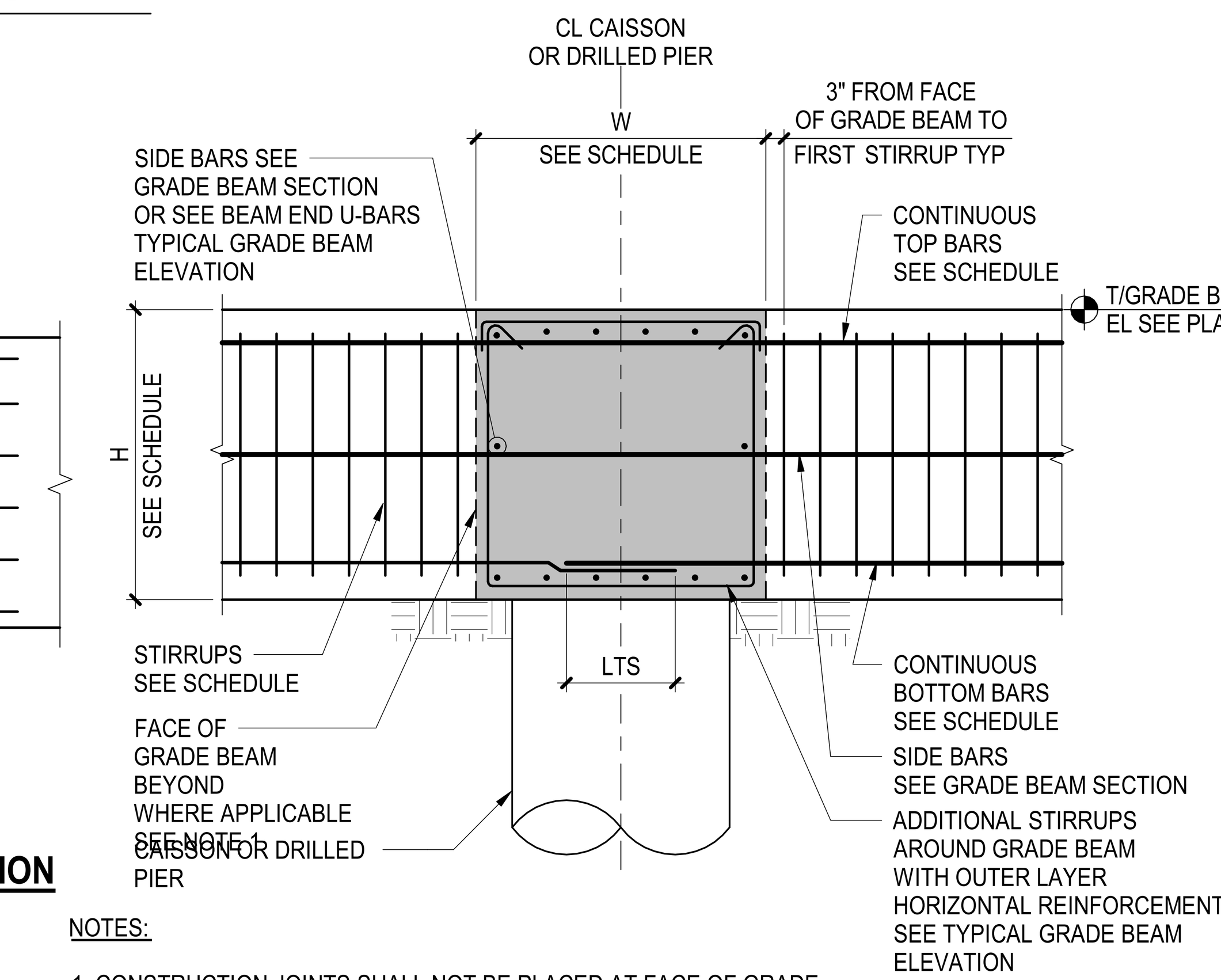
3 GRADE BEAM ORIENTATION KEY PLAN
NOT TO SCALE



NOTES:

1. GRADE BEAM LONGITUDINAL REINFORCEMENT AND STIRRUPS NOT SHOWN FOR CLARITY
2. FOR U-SHAPED TIES SEE TYPICAL GRADE BEAM ELEVATION

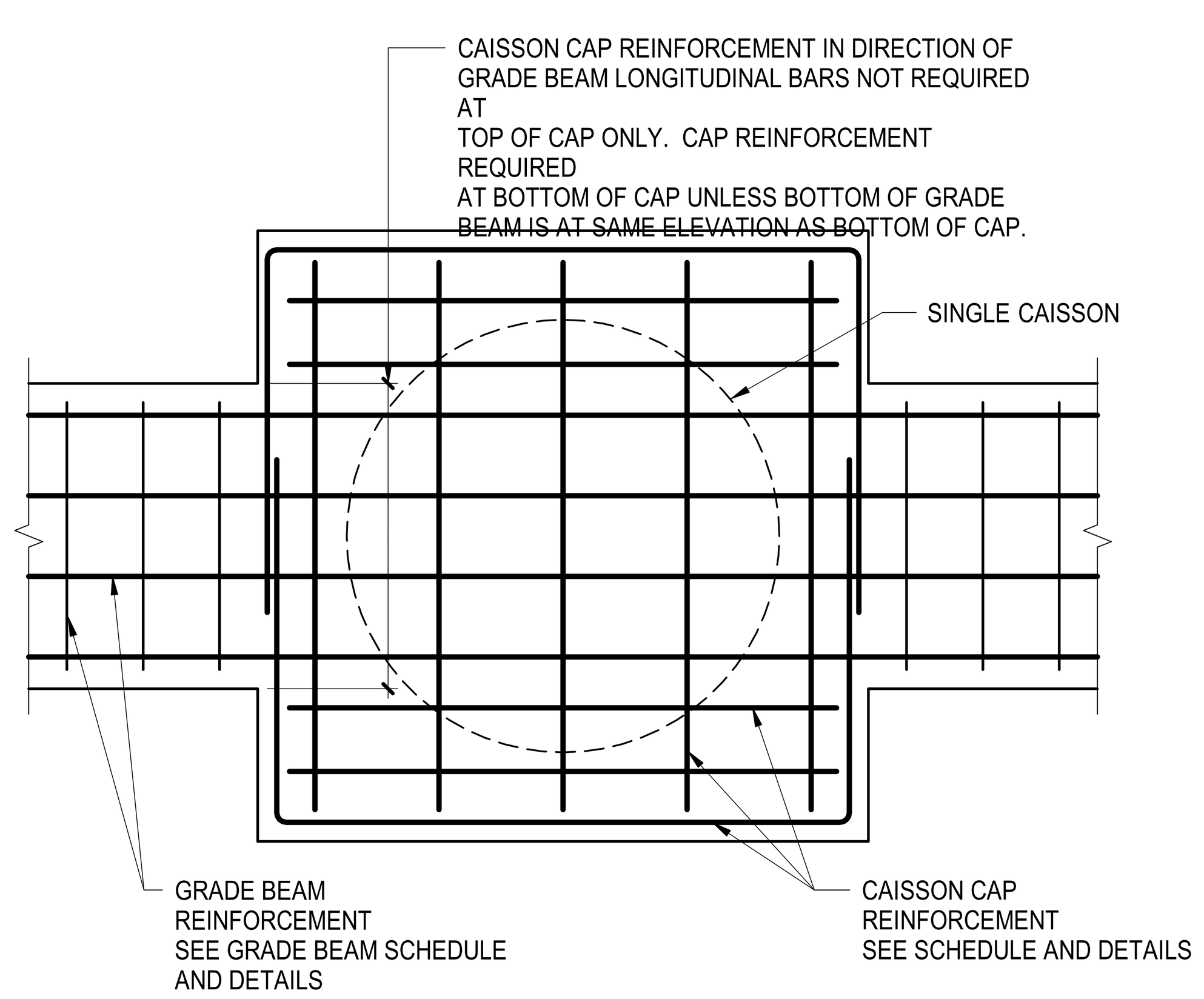
4 TYPICAL GRADE BEAM INTERSECTION PLAN DETAILS
NOT TO SCALE



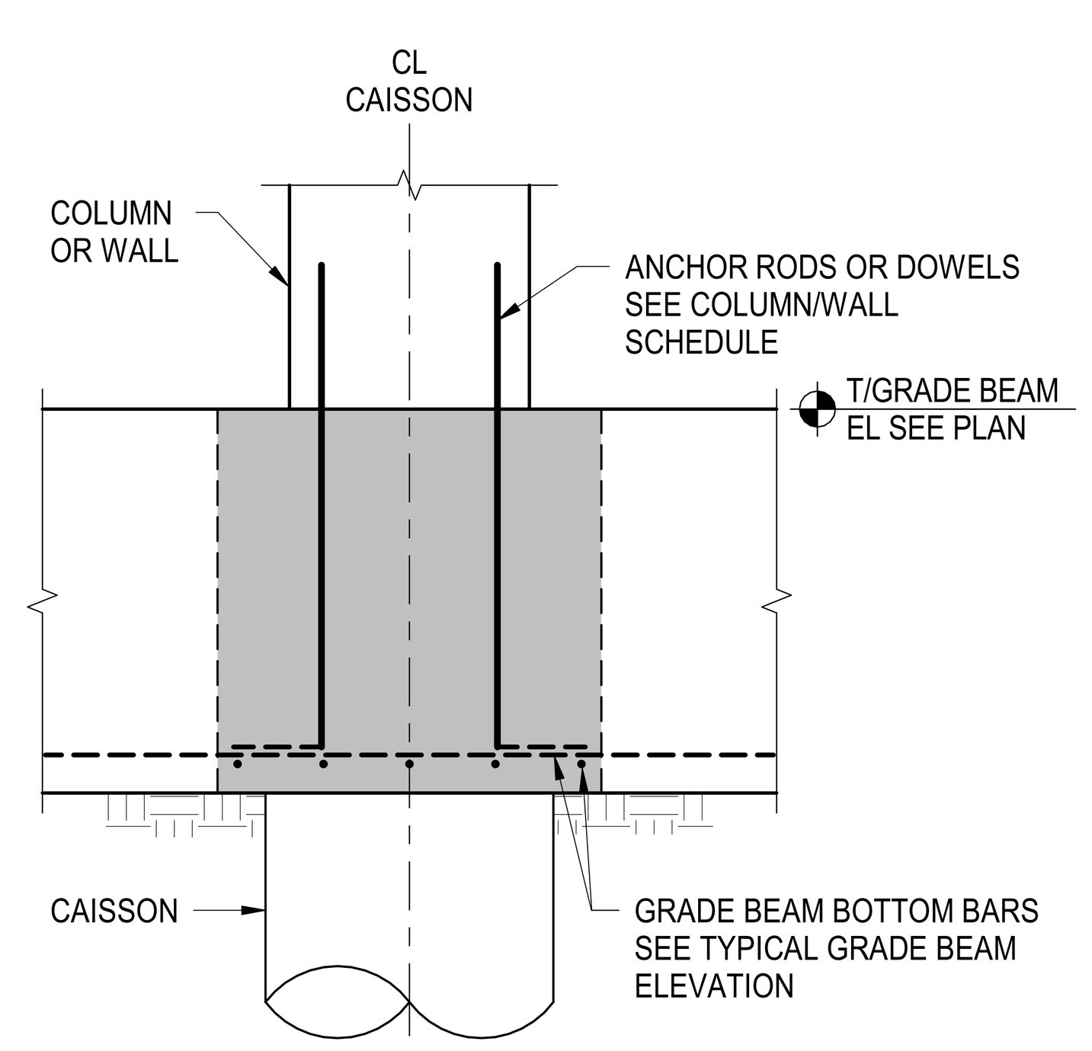
NOTES:

1. CONSTRUCTION JOINTS SHALL NOT BE PLACED AT FACE OF GRADE BEAMS WITHOUT PRIOR WRITTEN APPROVAL FROM SER
2. SLAB ON GRADE NOT SHOWN FOR CLARITY

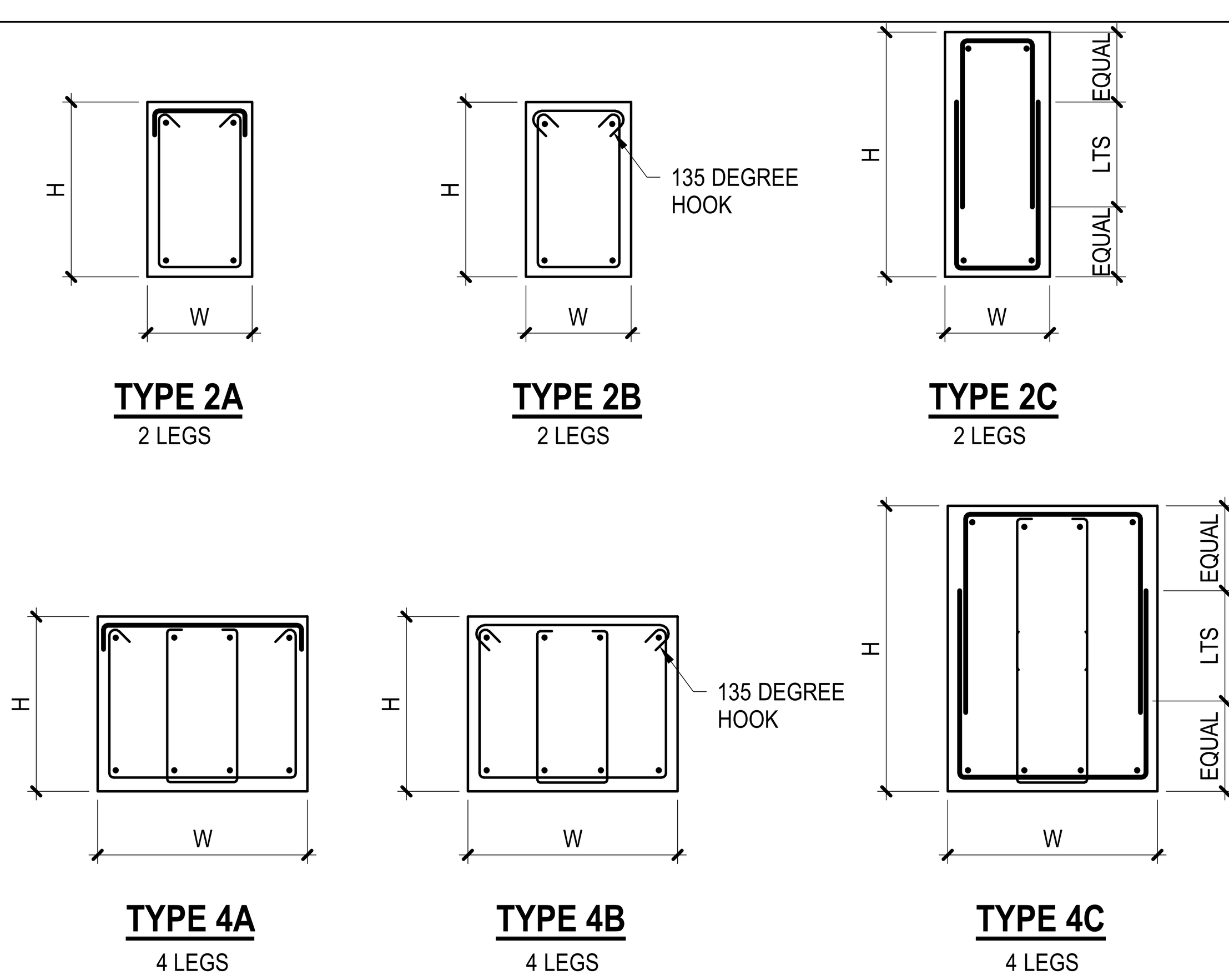
5 TYPICAL GRADE BEAM INTERIOR INTERSECTION DETAIL
NOT TO SCALE



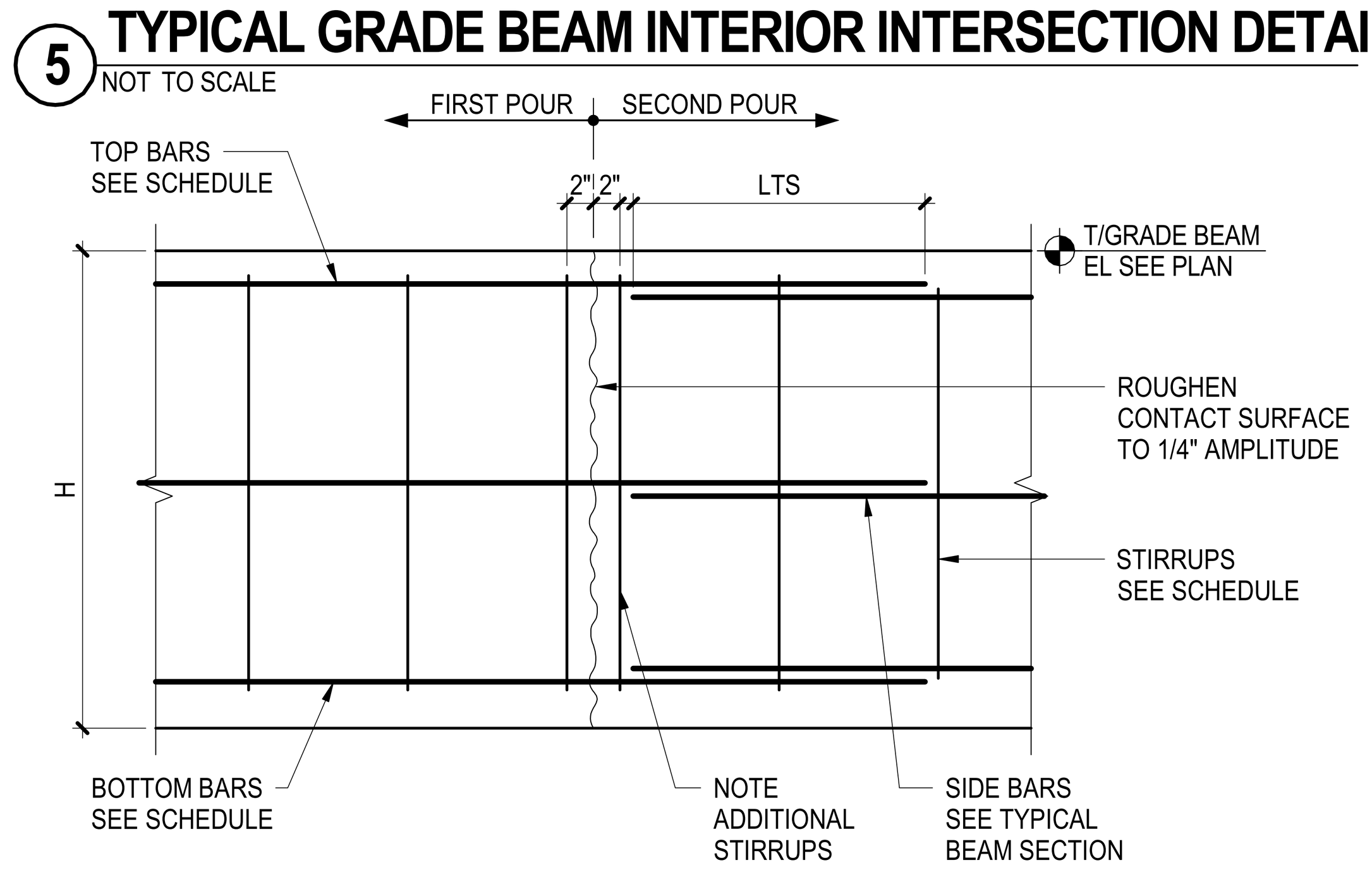
6 CAISSON CAP AT GRADE BEAM - PLAN
NOT TO SCALE



7 TYPICAL GRADE BEAM DETAIL AT COLUMN / WALL INTERSECTION
NOT TO SCALE



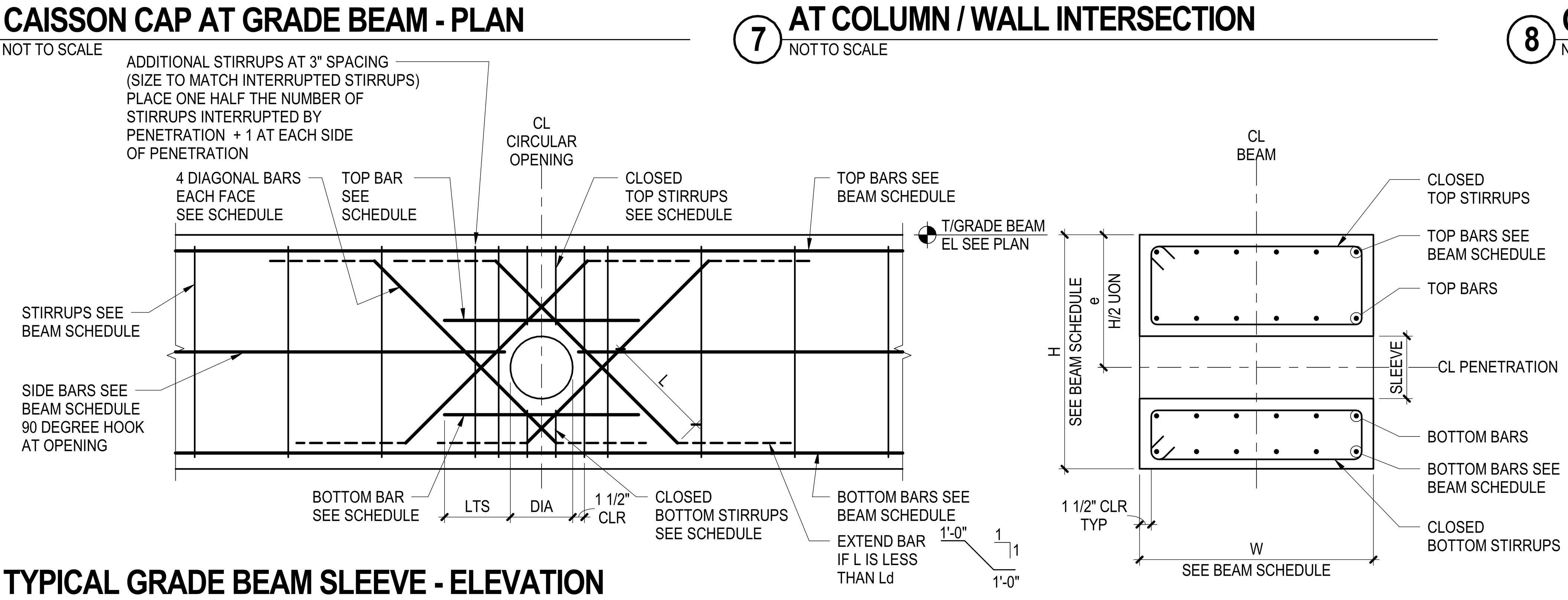
8 GRADE BEAM STIRRUP TYPES
NOT TO SCALE



NOTES:

1. CONTRACTOR SHALL SUBMIT CONCRETE CONSTRUCTION JOINT LAYOUT FOR REVIEW AND ACTION (REFER TO GENERAL NOTES AND SPECIFICATIONS) PRIOR TO REINFORCEMENT SUBMITTAL
2. HORIZONTAL CONSTRUCTION JOINTS ARE NOT PERMITTED WITHOUT PRIOR WRITTEN APPROVAL FROM SER

9 TYPICAL GRADE BEAM CONSTRUCTION JOINT - ELEVATION
NOT TO SCALE



NOTES:

1. ALL BEAM PENETRATIONS SHALL BE SHOWN ON THE SHOP DRAWINGS FOR REVIEW BY THE DESIGN PROFESSIONALS NO PENETRATIONS SHALL BE MADE WITHOUT PRIOR WRITTEN APPROVAL FROM THE DESIGN PROFESSIONALS
2. THESE DETAILS SHALL BE USED IN CONJUNCTION WITH CONCRETE BEAM PENETRATION SCHEDULE
3. THE MINIMUM CLEAR SPACE BETWEEN TWO ADJACENT PENETRATIONS SHALL BE GREATER OF THE LARGEST PENETRATION DIMENSION OR TWO TIMES THE BEAM DEPTH
4. THE MINIMUM CLEAR DIMENSION BETWEEN THE EDGE OF A PENETRATION AND THE FACE OF SUPPORT SHALL BE THE DEPTH OF THE BEAM
5. SEE STRUCTURAL DRAWINGS FOR PENETRATIONS. GENERAL CONTRACTOR SHALL VERIFY QUANTITY, SIZE, AND LOCATION OF ALL PENETRATIONS WITH MEP DRAWINGS. NOTIFY THE SER IN WRITING OF ANY DISCREPANCIES FOR REVIEW AND ACTION
6. NO ADDITIONAL REINFORCEMENT IS REQUIRED FOR OPENINGS WITH 4" DIAMETER OR SMALLER PROVIDED NO BEAM REINFORCEMENT IS INTERRUPTED AND MINIMUM CONCRETE COVER IS PROVIDED AROUND ALL BARS. IT IS ACCEPTABLE TO ADJUST BEAM REINFORCEMENT WITHIN MAXIMUM SPACING LIMITS FOR STIRRUPS OR SIDE BARS

10 TYPICAL GRADE BEAM SLEEVE - ELEVATION
NOT TO SCALE

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QEA PROJECT #: 31610100
TT PROJECT #: M16242.00

TYPICAL GRADE BEAM DETAILS

DISTRICT OF COLUMBIA
MARK J. TAMARO
No. 900...
REGISTERED PROFESSIONAL ENGINEER

FOUNDATION TO GRADE
03/03/17

REVISIONS

NO.	DESCRIPTION	DATE

S2050

GRADE BEAM SCHEDULE

f'c = SEE GENERAL NOTES

GRADE BEAM MARK	SIZE W (IN)	SIZE H (IN)	REINFORCEMENT LEFT END TOP BARS	REINFORCEMENT RIGHT END TOP BARS	REINFORCEMENT BOTTOM BARS	REINFORCEMENT SIDE BARS EACH FACE SEE NOTE 3	STIRRUPS TYPE	STIRRUPS SIZE	STIRRUPS SPACING EACH END	REMARKS
GB1	36	24	6#8	6#8	6#8		2A	#4	12"	

NOTES:

1. SEE PLAN FOR TOP OF GRADE BEAM ELEVATION
2. LEFT END AND RIGHT END OF BEAM ARE DEFINED ON BEAM ORIENTATION KEY PLAN
3. SEE TYPICAL GRADE BEAM SECTION DETAIL WHERE NO SIDE BARS ARE INDICATED

REINFORCEMENT LEGEND:

NUMBER OF BARS — BAR SIZE — BAR LENGTH

3#9x7'-2"

1 GRADE BEAM SCHEDULE

NOT TO SCALE

GOVERNMENT OF THE DISTRICT OF COLUMBIA
PERMIT OPERATIONS DIVISION
PLANS APPROVED
Permit No. FD1800040 Date 08/23/19

These plans are conditionally approved as submitted or noted during plan review and are subject to field inspection. Approved plans must be kept on site and are needed for all inspections. No changes or modifications to these plans. Changes require a revision permit with the revised plans. Trade Permits are required for trade work. e.g. Electrical or Plumbing

Plumbing Review - Syed Hashmi - 08-23-2019
Structural Review - Bihon Debessai - 08-23-2019
DOEE SE-SW Review - Nykia Barnes - 08-23-2019
DOEE GAR Review - Nykia Barnes - 08-23-2019
DC Water Review - Vahid Bilvardi - 08-23-2019

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GRADE BEAM SCHEDULES

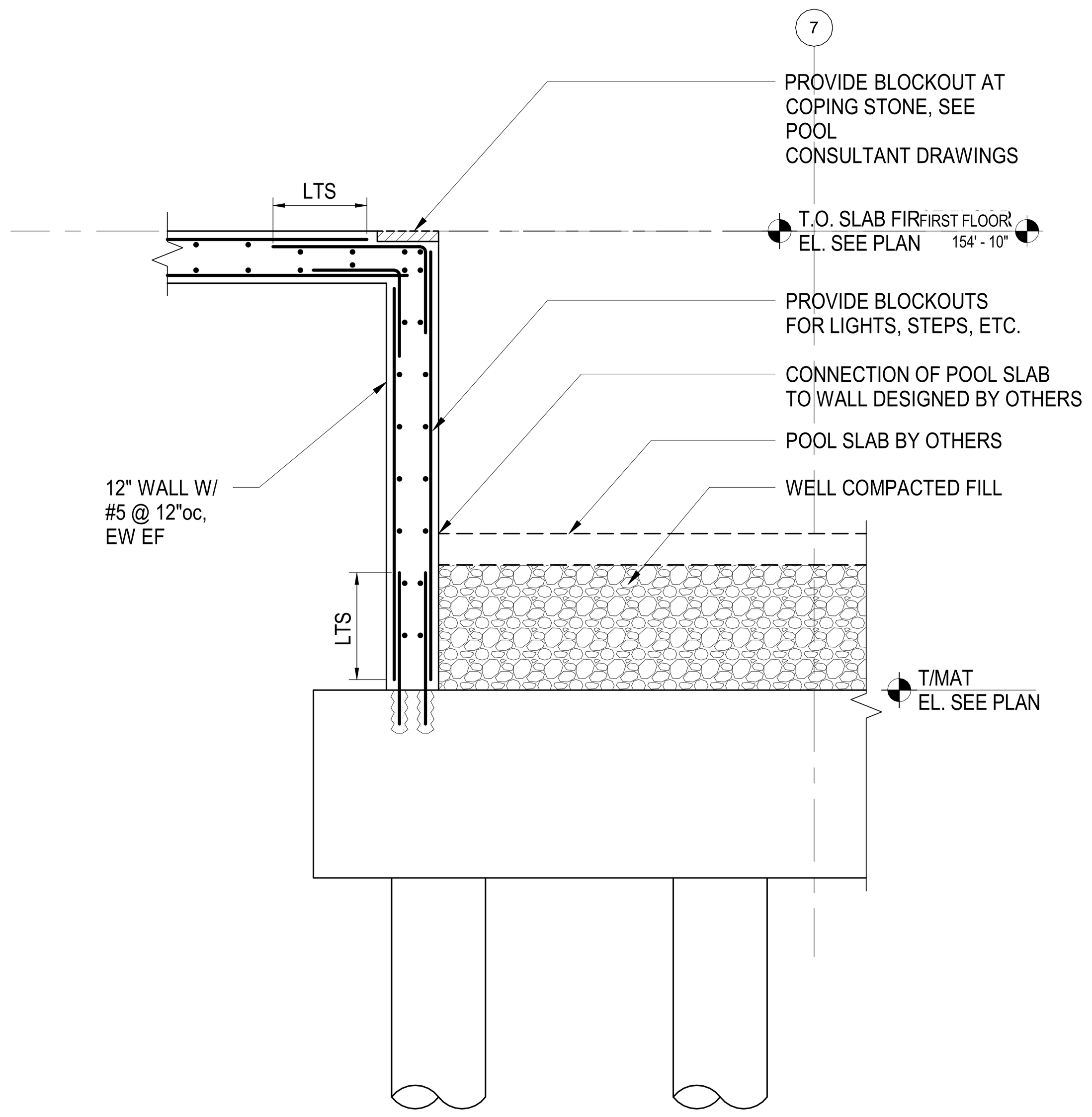
DISTRICT OF COLUMBIA
MARK J. TAMARO
REGISTERED PROFESSIONAL ENGINEER

FOUNDATION TO GRADE
03/03/17

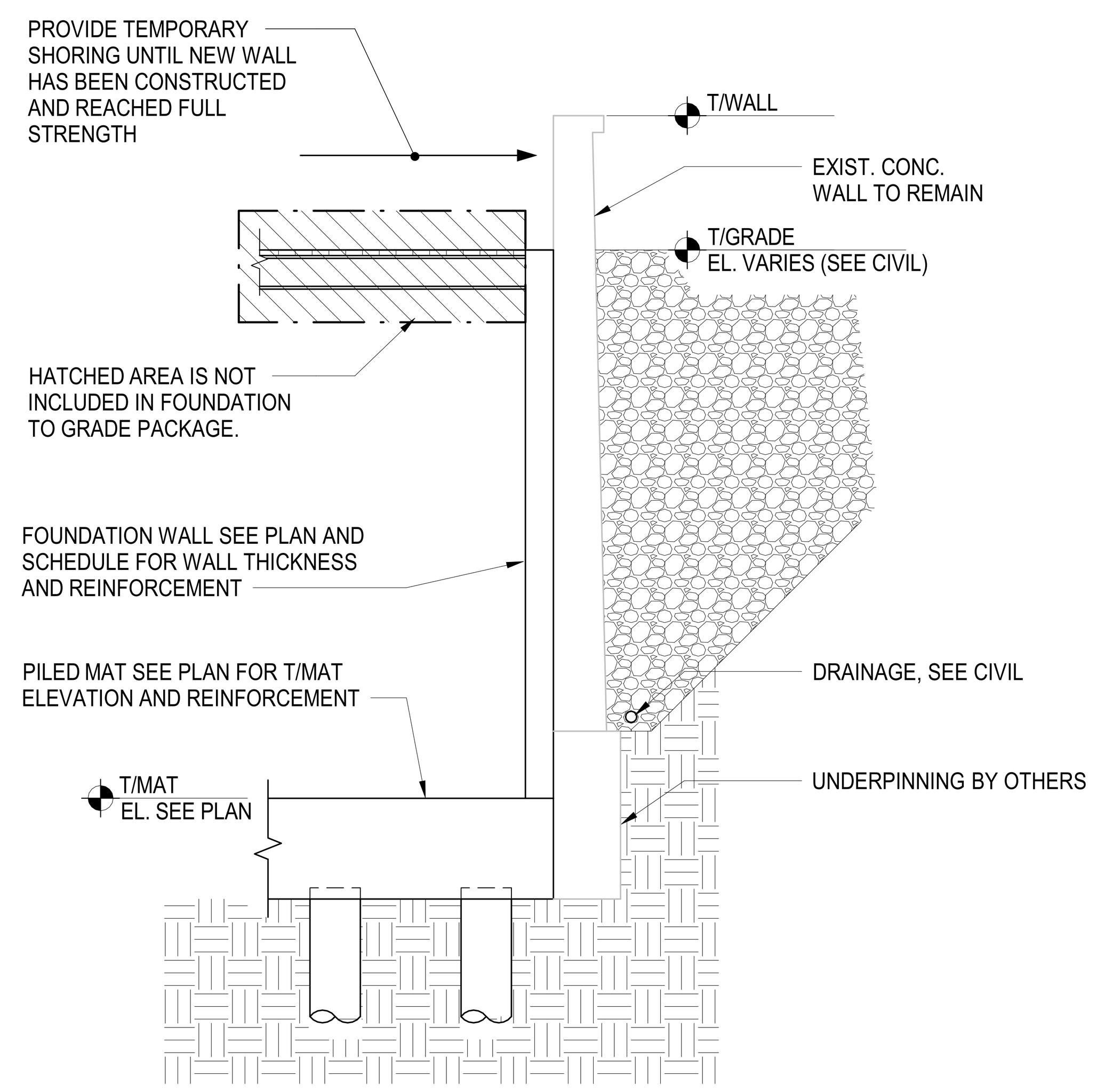
REVISIONS

NO.	DESCRIPTION	DATE

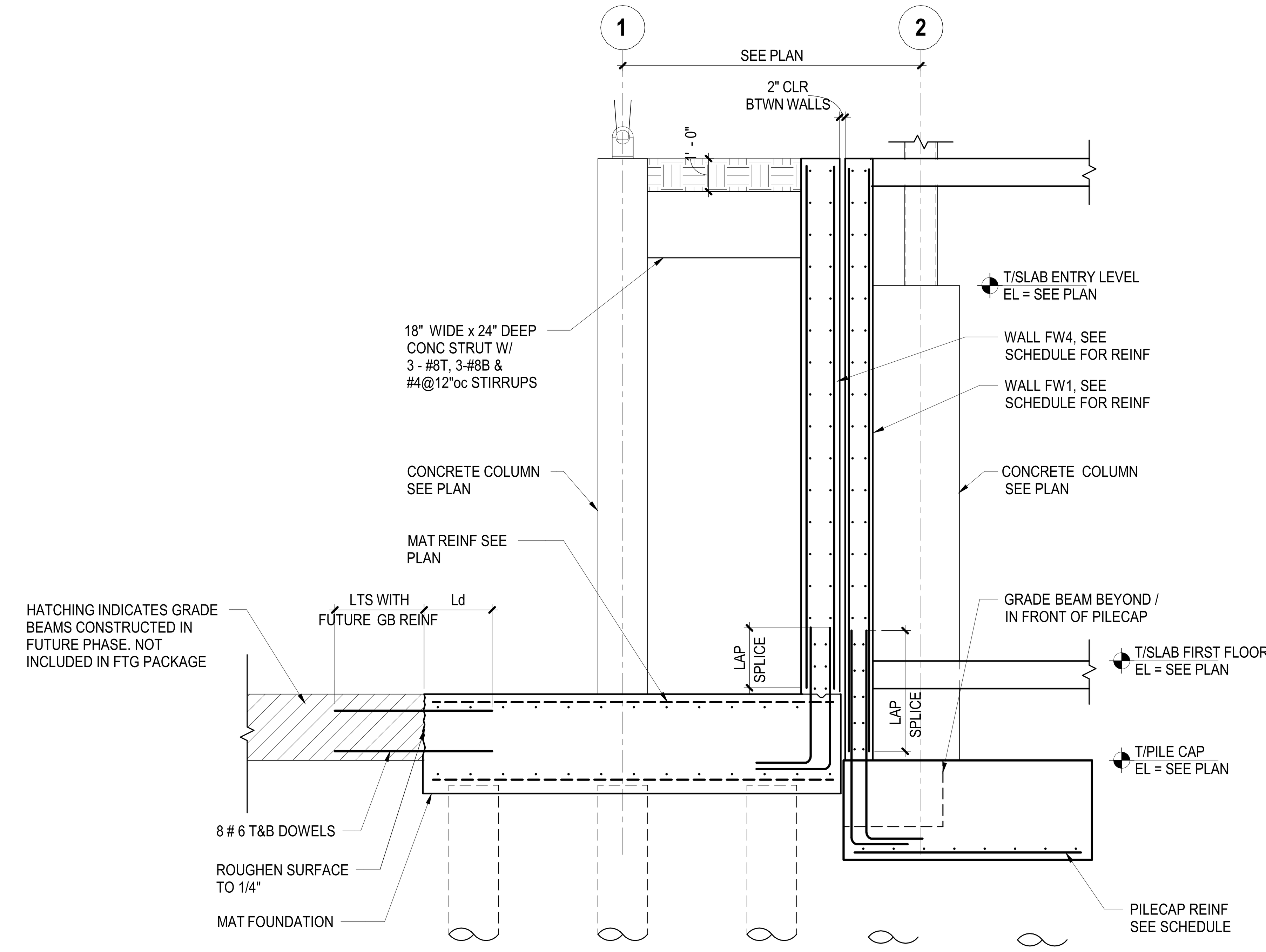
S2060



1 SECTION AT EDGE OF SWIMMING POOL
1/2" = 1'-0"



2 SECTION AT NORTH RETAINING WALL
1/4" = 1'-0"



3 SECTION AT WEST RETAINING WALL
3/8" = 1'-0"

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PERMIT OPERATIONS DIVISION
PLANS APPROVED
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FOUNDATION SECTIONS AND DETAILS

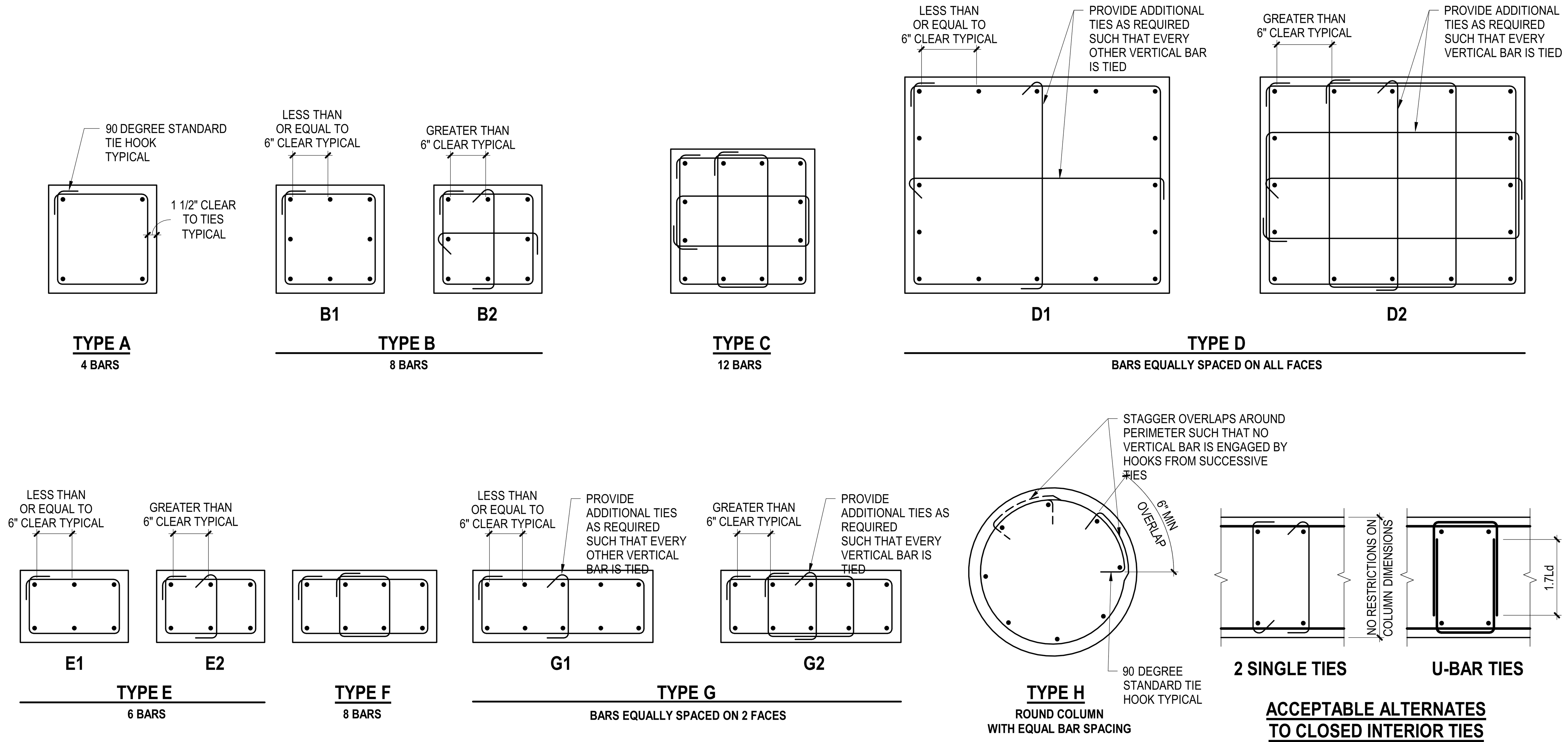
DISTRICT OF COLUMBIA
MARK J. TAMARO
No. 900410
REGISTERED PROFESSIONAL ENGINEER

FOUNDATION TO GRADE
03/03/17

REVISIONS

NO.	DESCRIPTION	DATE

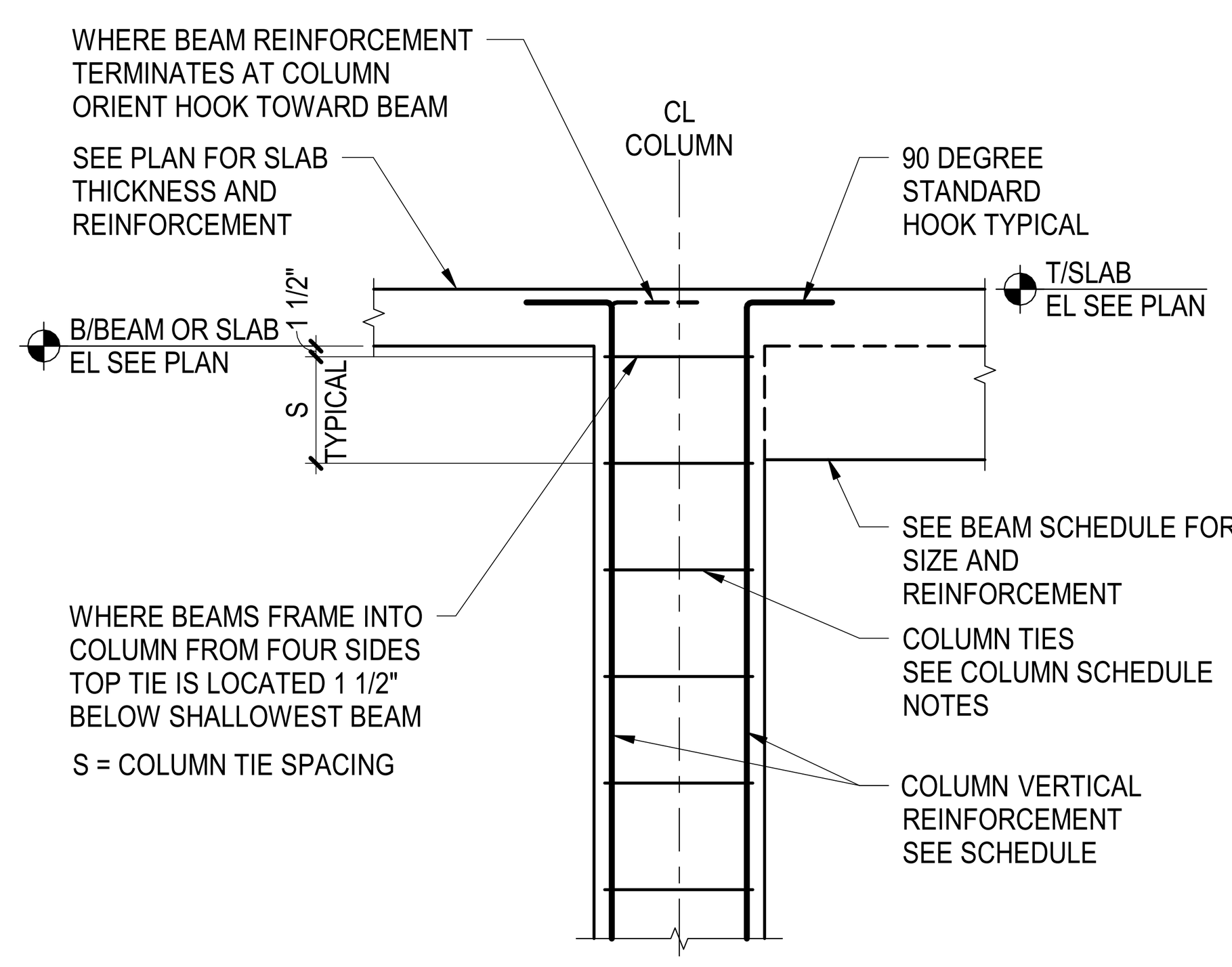
S2100



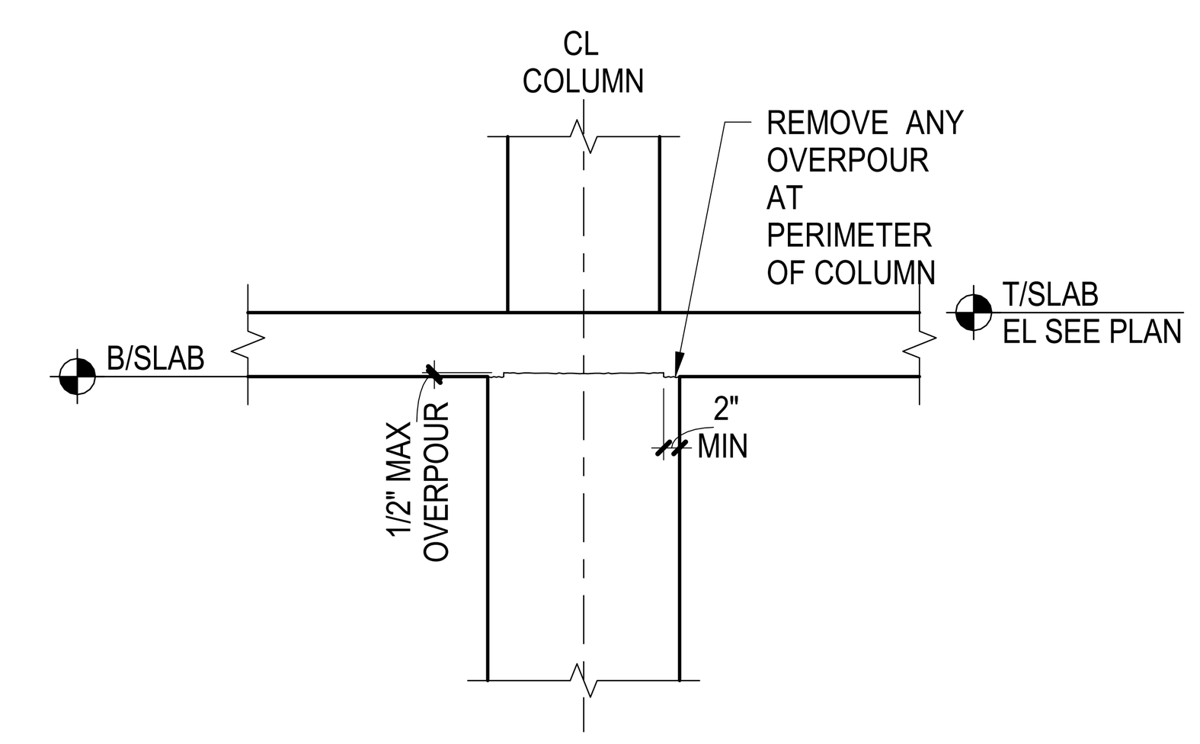
NOTES:

1. FOR ALL TYPES STAGGER ALL TIE HOOKS
2. FOR TYPE **D** TOTAL NUMBER OF BARS SHOULD BE SPACED AROUND PERIMETER IN SUCH A WAY AS TO ACHIEVE APPROXIMATELY EQUAL SPACING
3. FOR TYPE **G** TOTAL NUMBER OF BARS SHOULD BE SPACED AROUND PERIMETER IN SUCH A WAY AS TO ACHIEVE EQUAL SPACING ON THE TWO LONG SIDES

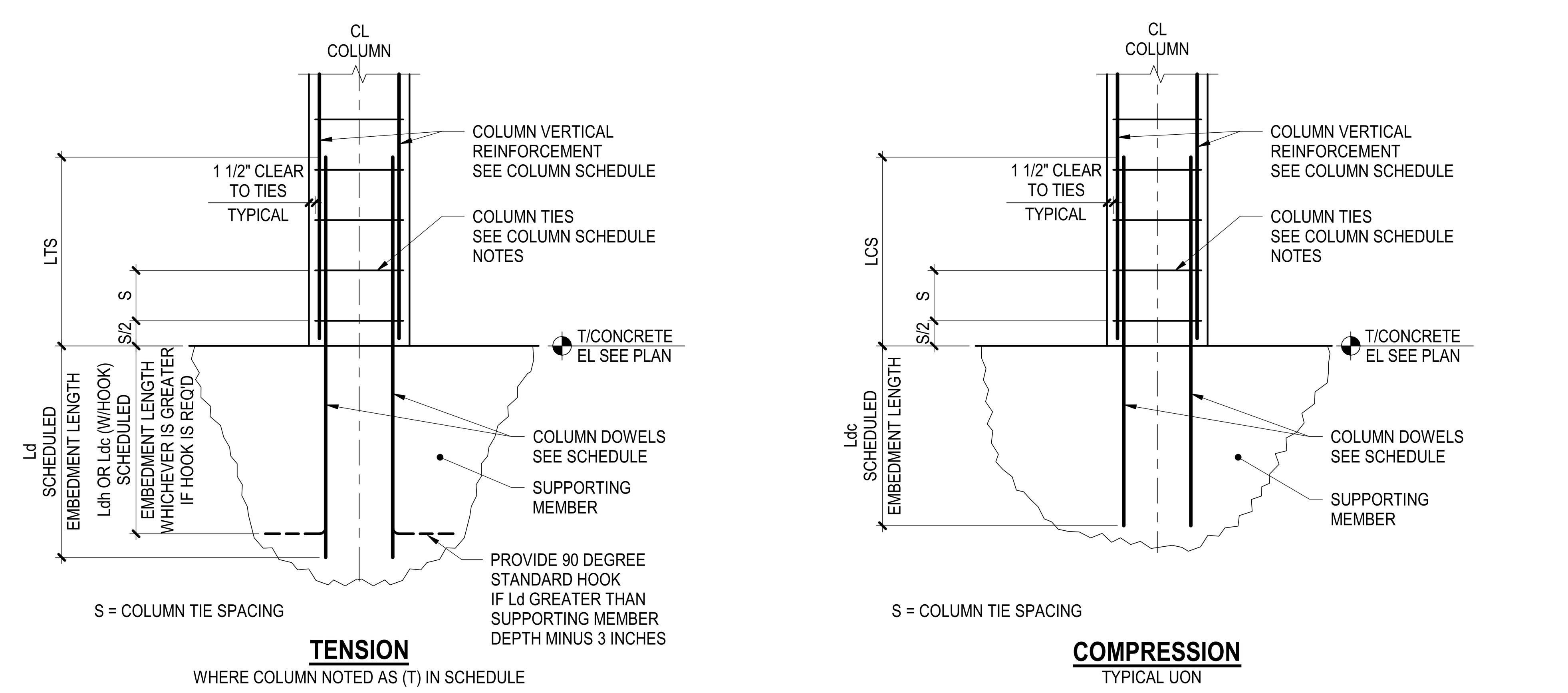
1 COLUMN TYPES - BAR ARRANGEMENT
NOT TO SCALE



2 TYPICAL TOP OF COLUMN
NOT TO SCALE



3 TYPICAL COLUMN OVERPOUR TOLERANCE
NOT TO SCALE



4 TYPICAL BOTTOM OF COLUMN
NOT TO SCALE

GOVERNMENT OF THE DISTRICT OF COLUMBIA
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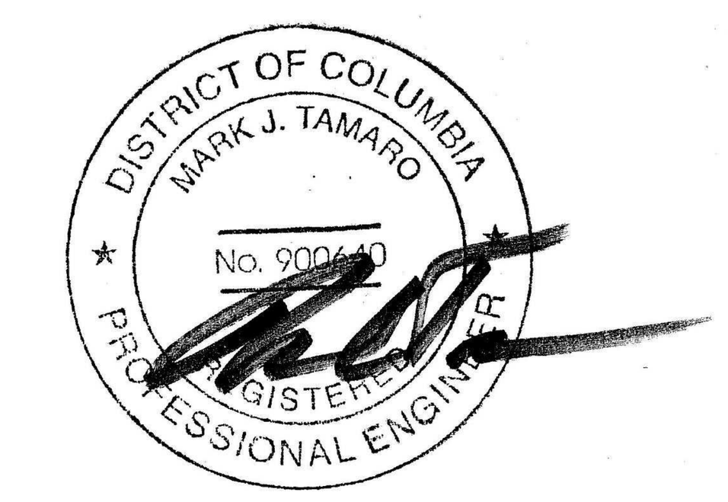
TYPICAL CONCRETE COLUMN DETAILS



FOUNDATION TO GRADE
03/03/17

REVISIONS

NO.	DESCRIPTION	DATE

S4010

CONCRETE BEAM SCHEDULE

f'c = SEE GENERAL NOTES

BEAM MARK	SIZE W (IN)	SIZE H (IN)	LEFT END TOP BARS LONG	LEFT END TOP BARS SHORT	RIGHT END TOP BARS LONG	RIGHT END TOP BARS SHORT	BOTTOM BARS LONG	BOTTOM BARS SHORT	SIDE BARS EACH FACE SEE NOTE 4	STIRRUPS TYPE	STIRRUPS SIZE	STIRRUPS SPACING FROM EACH END	REMARKS
2B1	24	30	5#9		5#9		6#8		-	2A	#4	1@3", BAL @ 12"	
2B2	24	24	3#9		3#8		3#8		-	2A	#4	1@3", BAL @ 12"	

NOTES:

1. TOP OF BEAM IS ASSUMED TO BE TOP OF SLAB UON.
2. LEFT END AND RIGHT END OF BEAM ARE DEFINED ON BEAM ORIENTATION KEY PLAN
3. WHERE REINFORCEMENT IS NOTED AS "SEE ADJ BEAM", REINFORCEMENT IS TO BE CONTINUED FROM ADJACENT BEAM
4. SEE TYPICAL BEAM SECTION DETAIL WHERE NO SIDE BARS ARE INDICATED

REINFORCEMENT LEGEND:

NUMBER OF BARS — BAR SIZE — BAR LENGTH

3#9x7'-2"

1 CONCRETE BEAM SCHEDULE

NOT TO SCALE

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CONCRETE BEAM SCHEDULES

DISTRICT OF COLUMBIA MARK J. TAMARO No. 900[illegible] REGISTERED PROFESSIONAL ENGINEER

FOUNDATION TO GRADE
03/03/17

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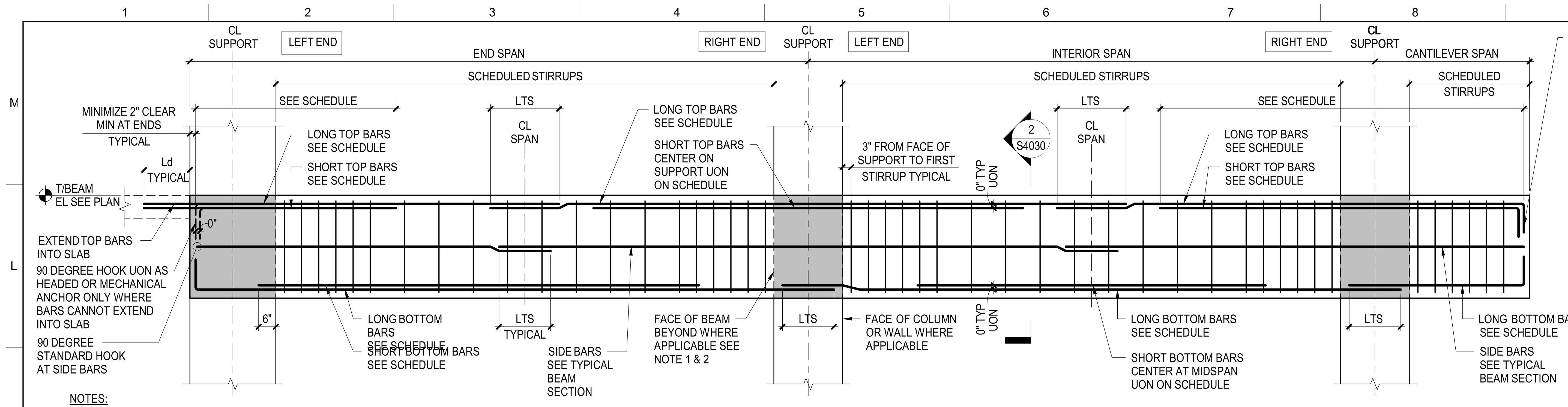
NO.	DESCRIPTION	DATE

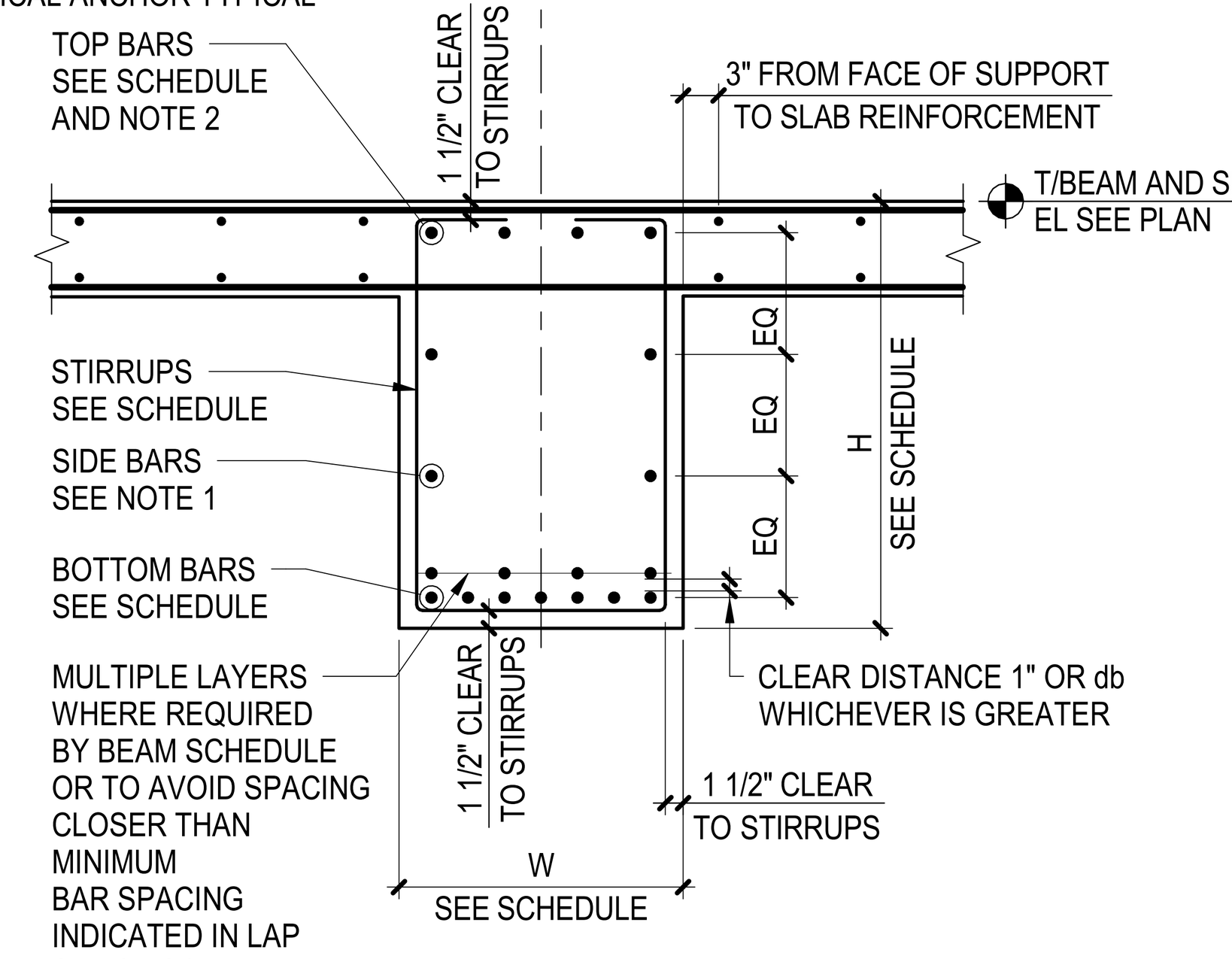
S4020



NOTES:

1. ELEVATION AS SHOWN REPRESENTS STIRRUP ARRANGEMENT AT COLUMN SUPPORTS
2. FOR STIRRUP ARRANGEMENT AT BEAM SUPPORT SEE TYPICAL DETAILS AT BEAM JOINT SUPPORT
3. CONTRACTOR TO MINIMIZE NUMBER OF SPLICES
4. IF SPLICES ARE REQUIRED THE SPLICES SHALL BE LOCATED WHERE INDICATED ON THIS DETAIL

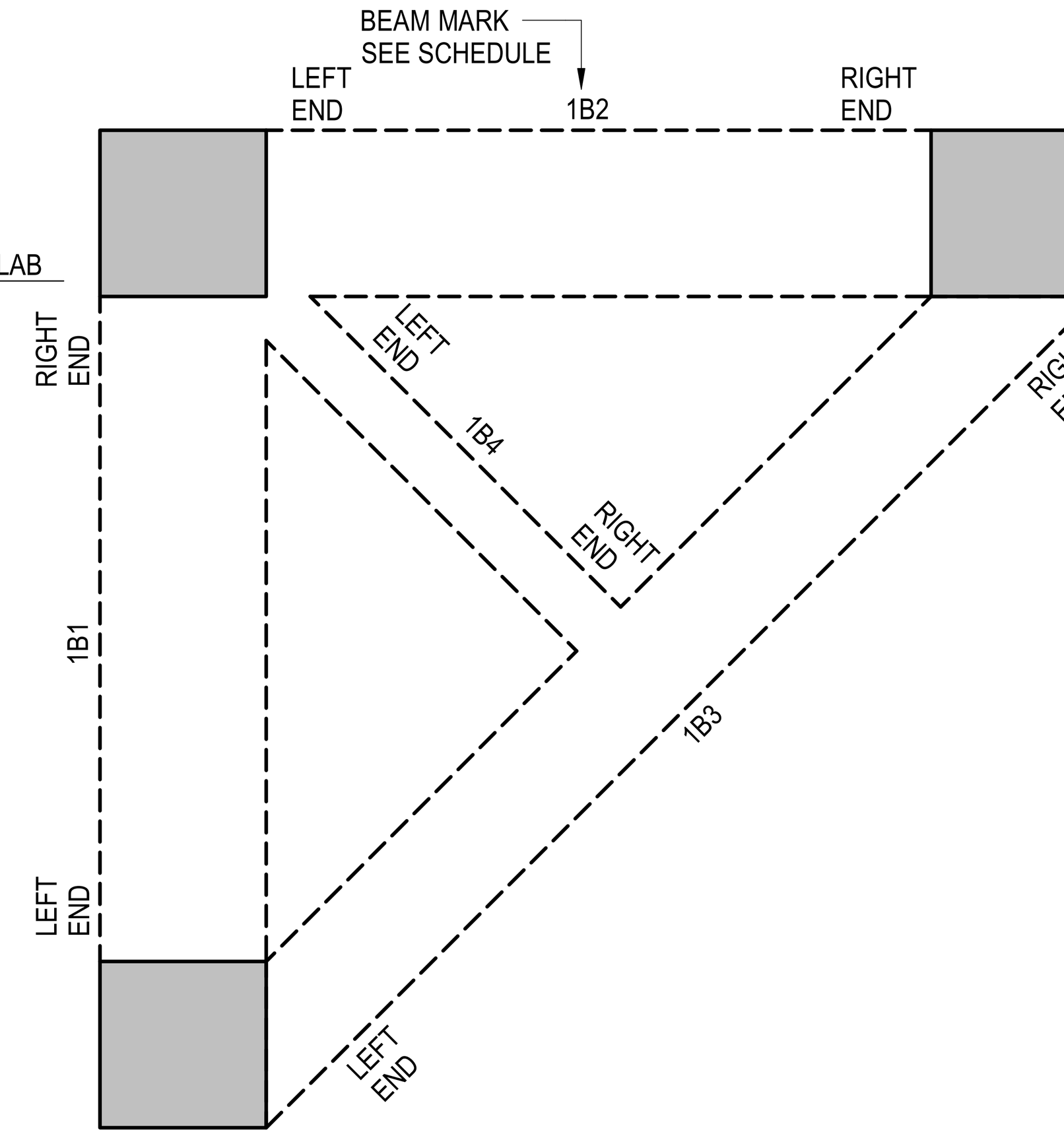
1 TYPICAL BEAM ELEVATION
NOT TO SCALE



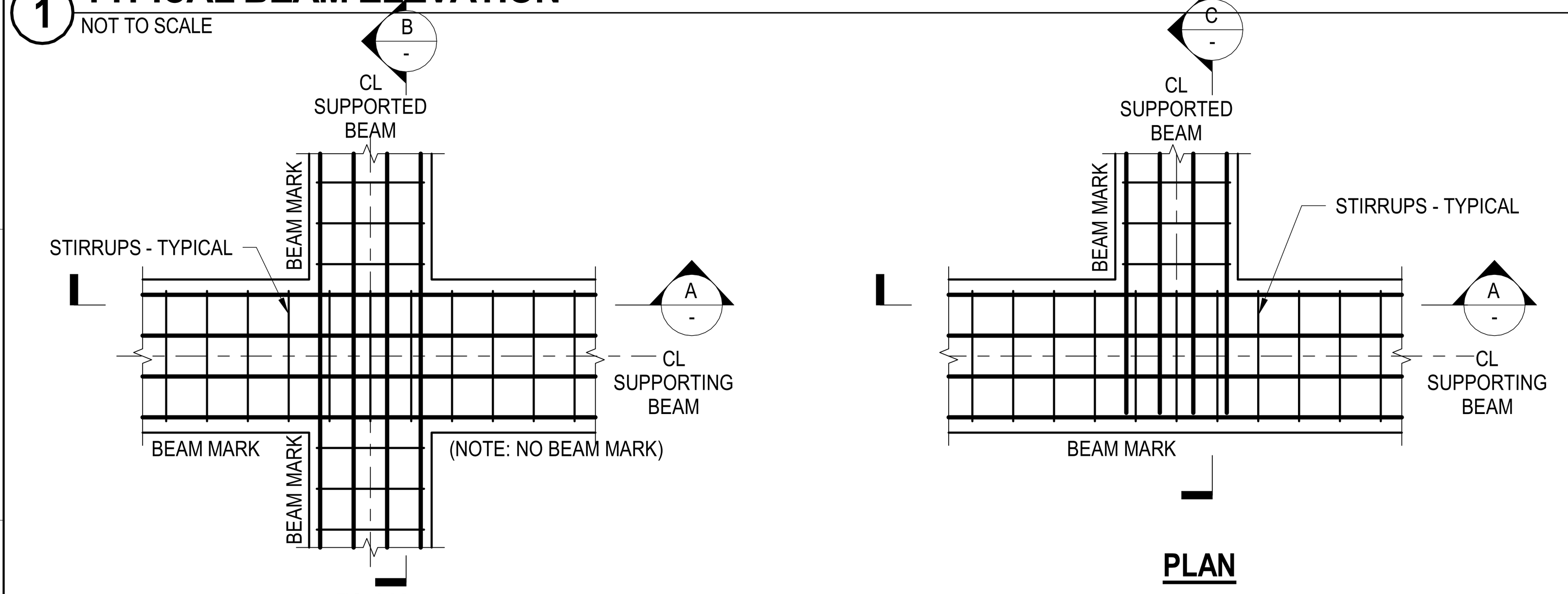
NOTES:

1. IF H IS GREATER THAN 36" PROVIDE SIDE BARS #5@10" MINIMUM UNLESS OTHERWISE NOTED IN SCHEDULE
2. WHERE TWO LAYERS OF BARS ARE REQUIRED, TOP OR BOTTOM, PLACE SHORT BARS AS INNER LAYER

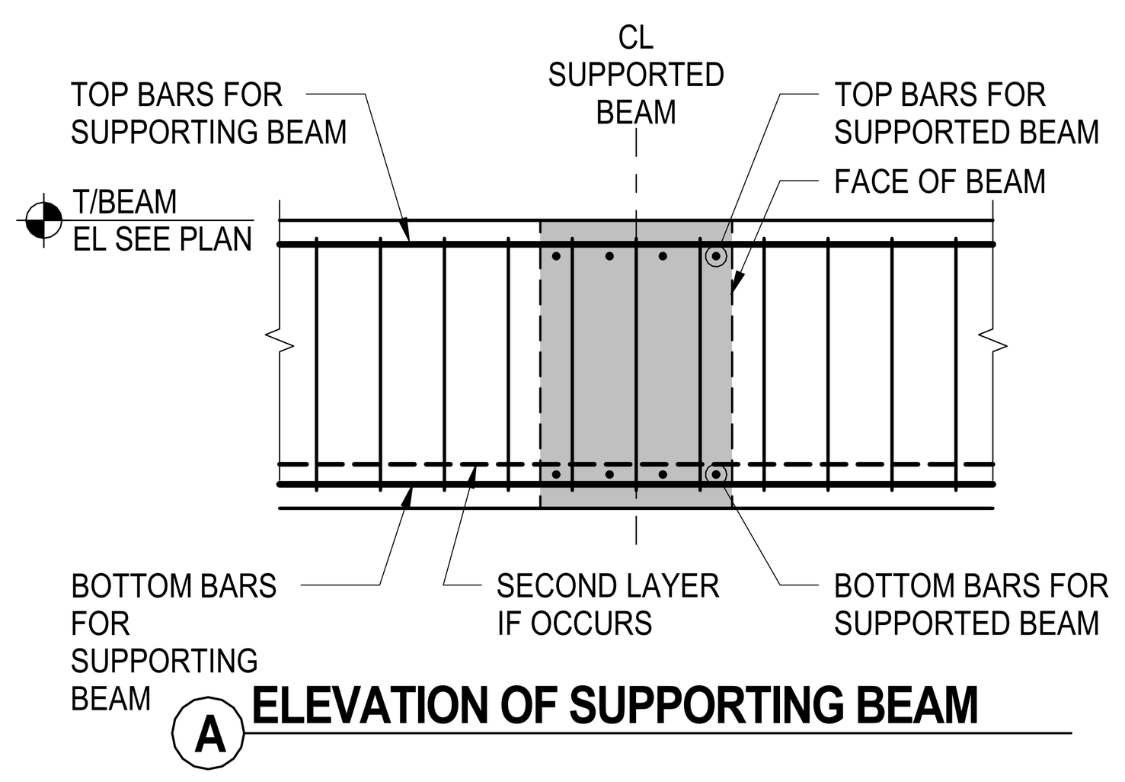
2 TYPICAL BEAM SECTION
NOT TO SCALE



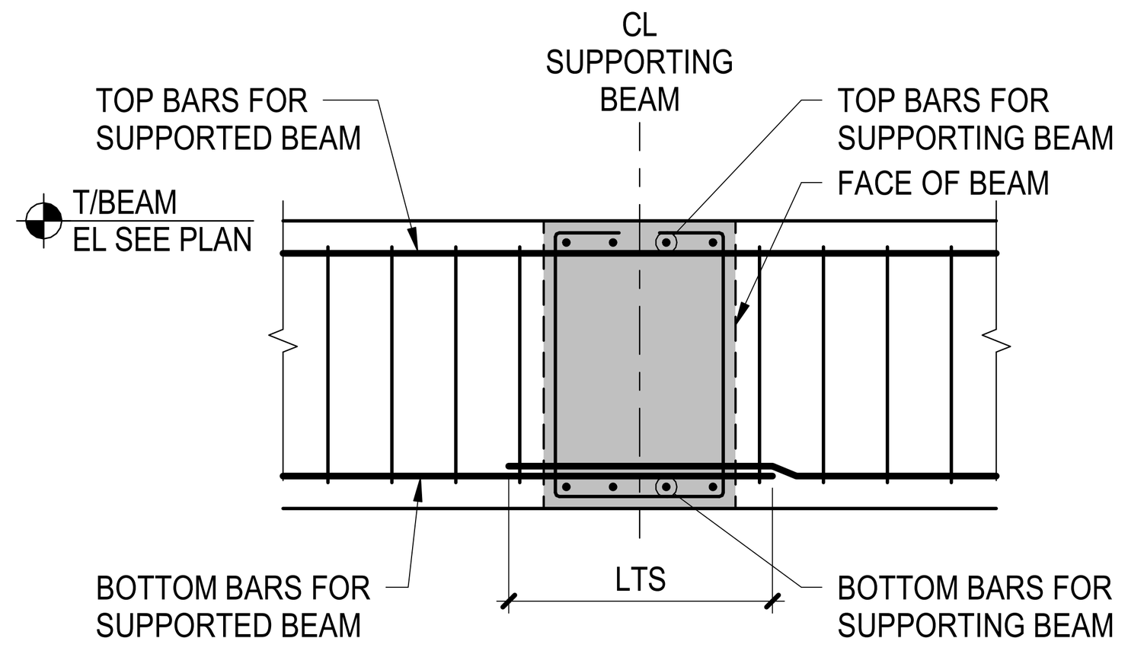
3 BEAM ORIENTATION KEY PLAN
NOT TO SCALE



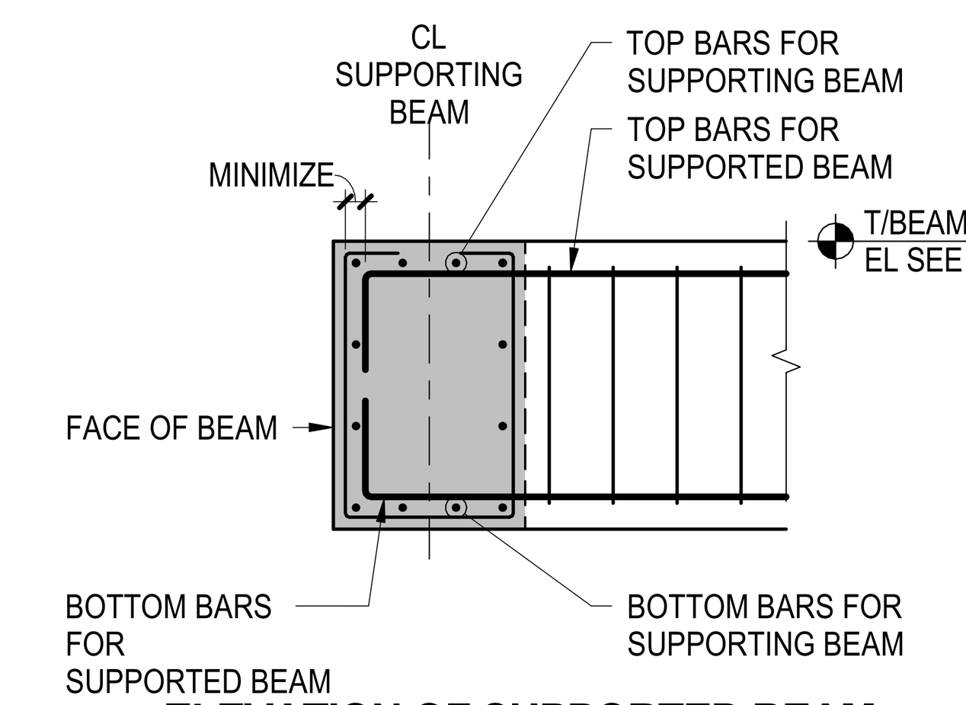
4 TYPICAL DETAILS AT BEAM JOINT SUPPORT
NOT TO SCALE



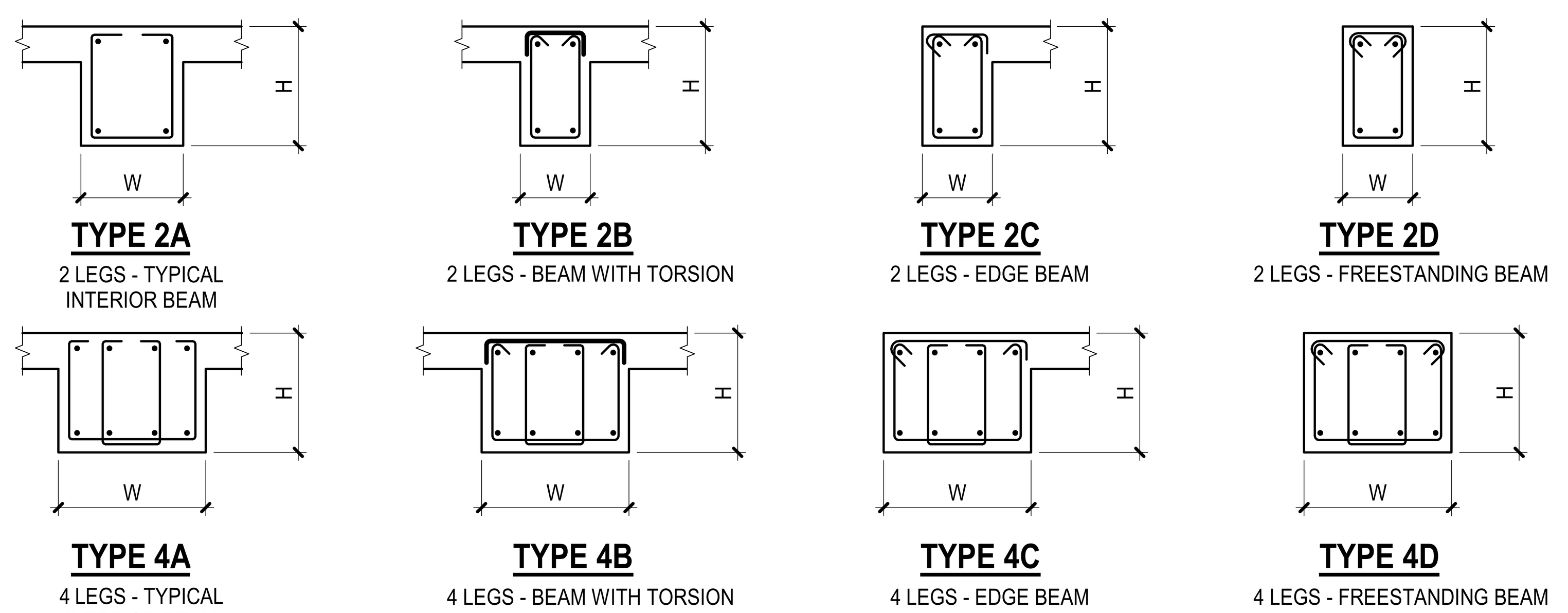
A ELEVATION OF SUPPORTING BEAM



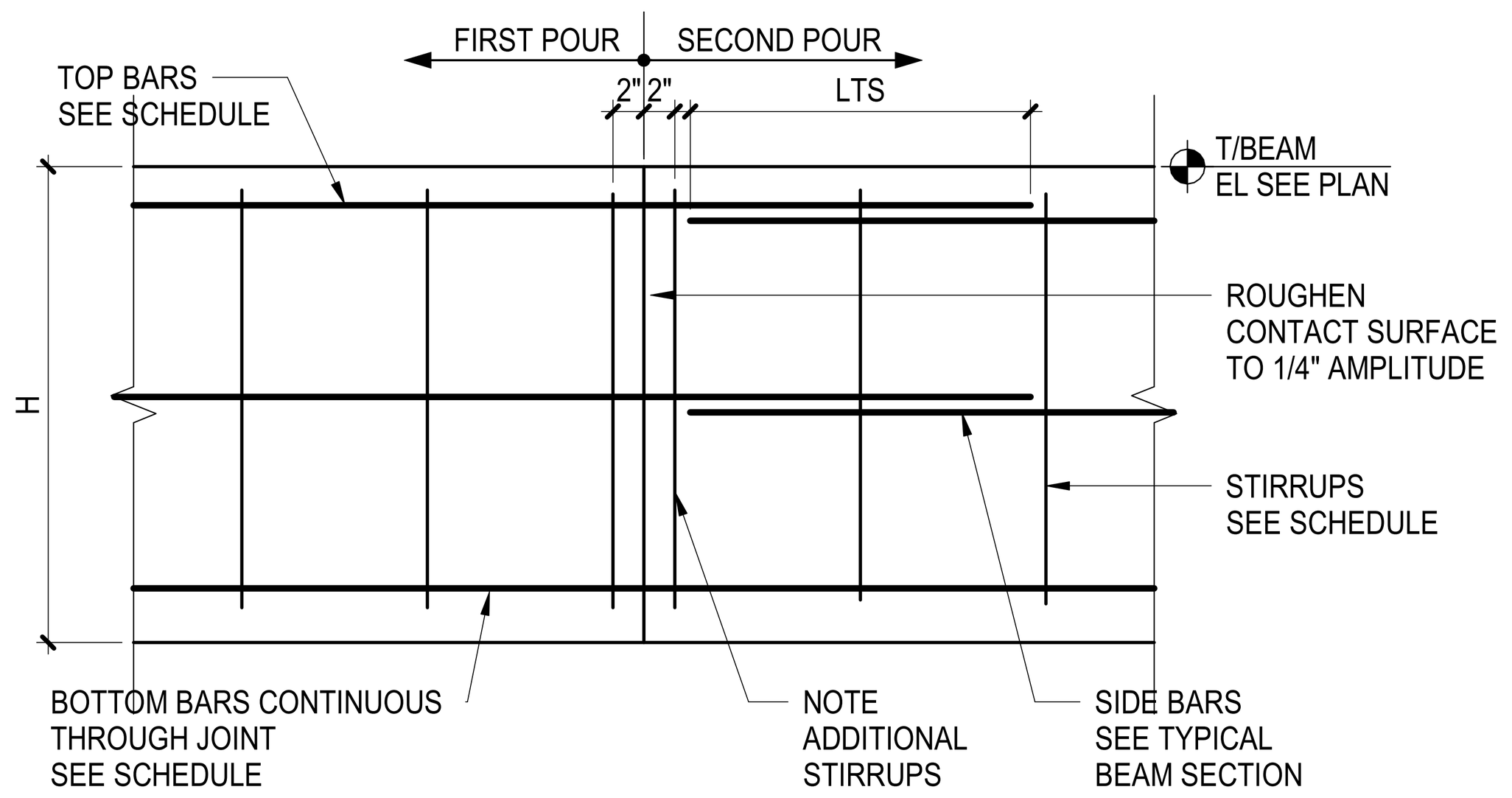
B ELEVATION OF SUPPORTED BEAM



C ELEVATION OF SUPPORTED BEAM



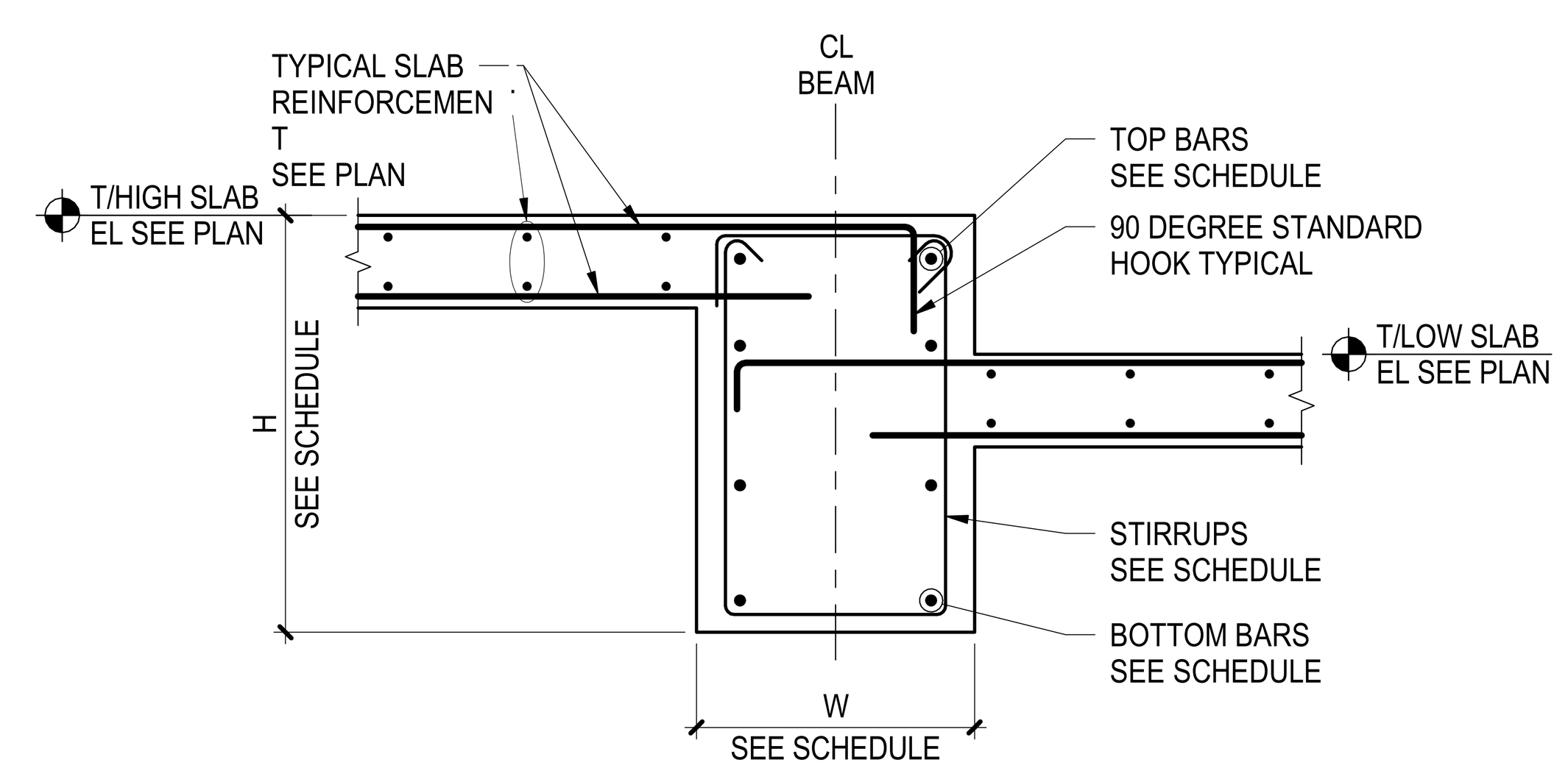
5 BEAM STIRRUP TYPES
NOT TO SCALE



NOTES:

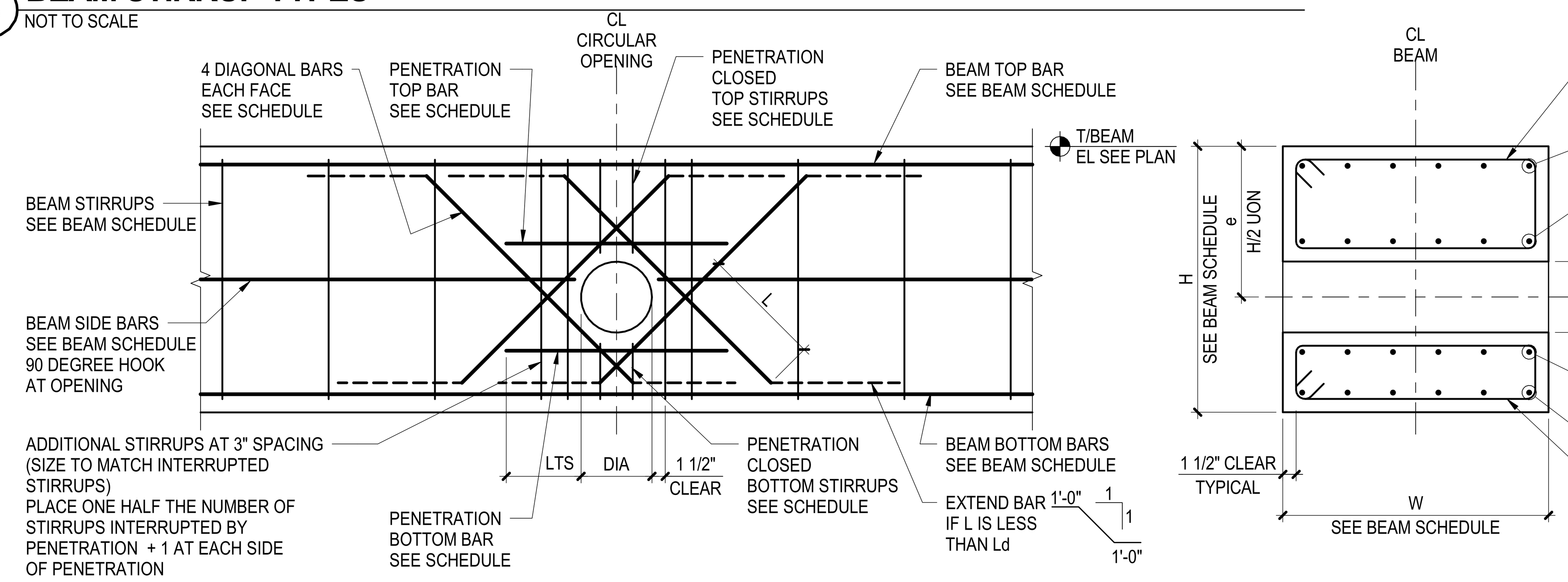
1. CONTRACTOR SHALL SUBMIT CONCRETE CONSTRUCTION JOINT LAYOUT FOR REVIEW AND APPROVAL (REFER TO GENERAL NOTES AND SPECIFICATIONS) PRIOR TO REINFORCEMENT SUBMITTAL.
2. HORIZONTAL CONSTRUCTION JOINTS ARE NOT PERMITTED WITHOUT WRITTEN APPROVAL FROM SER.

6 TYPICAL BEAM CONSTRUCTION JOINT - ELEVATION
NOT TO SCALE



7 TYPICAL SLAB / BEAM DETAIL AT CHANGE OF SLAB ELEVATION
NOT TO SCALE

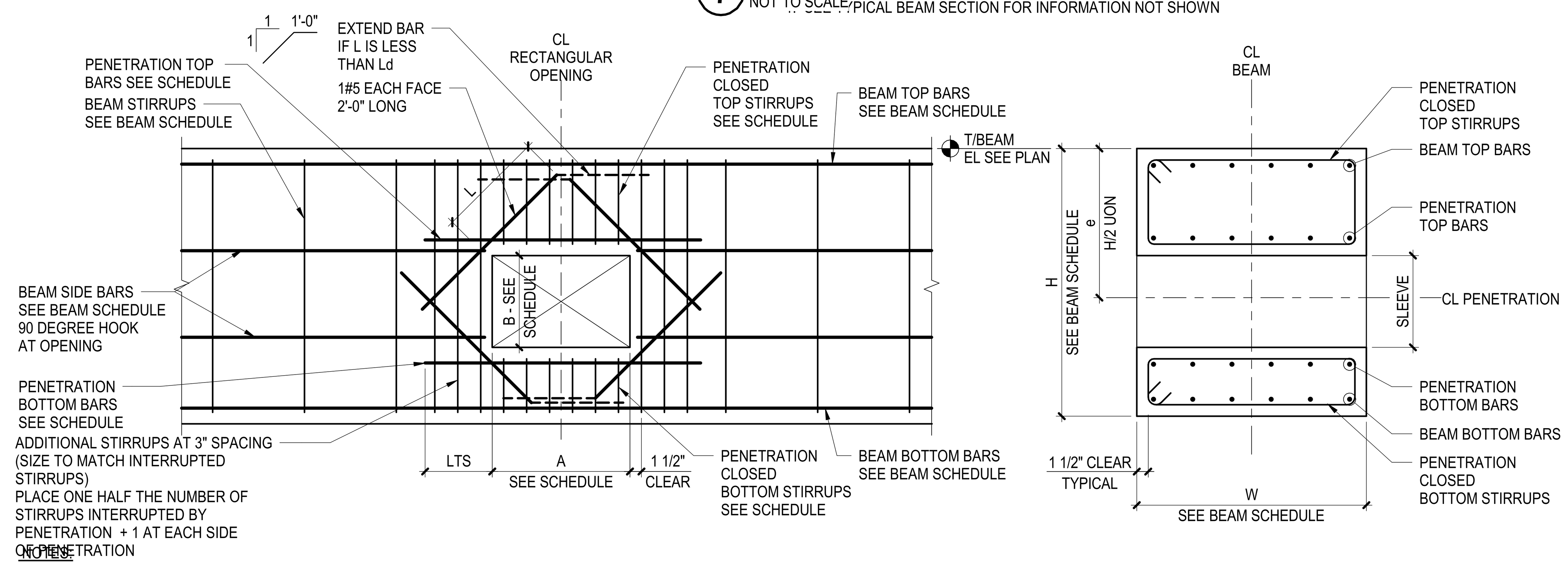
NOTE: SEE TYPICAL BEAM SECTION FOR INFORMATION NOT SHOWN



NOTES:

1. ALL BEAM PENETRATIONS SHALL BE SHOWN ON THE SHOP DRAWINGS FOR REVIEW BY THE ARCHITECT/ENGINEER. NO PENETRATIONS SHALL BE MADE WITHOUT PRIOR REVIEW BY THE ARCHITECT AND WRITTEN APPROVAL FROM THE SER
2. THESE DETAILS SHALL BE USED IN CONJUNCTION WITH CONCRETE BEAM PENETRATION SCHEDULE
3. THE MINIMUM CLEAR SPACE BETWEEN TWO ADJACENT PENETRATIONS SHALL BE GREATER OF THE LARGEST PENETRATION DIMENSION OR TWO TIMES THE BEAM DEPTH
4. THE MINIMUM CLEAR DIMENSION BETWEEN THE EDGE OF A PENETRATION AND THE FACE OF SUPPORT , FACE OF SUPPORTED BEAM, OR POINT LOAD IMPOSED, SHALL BE THE BEAM DEPTH
5. SEE STRUCTURAL DRAWINGS FOR PENETRATIONS. GENERAL CONTRACTOR SHALL VERIFY QUANTITY, SIZE, AND LOCATION OF ALL PENETRATIONS WITH MEP DRAWINGS. NOTIFY SER IN WRITING OF ANY DISCREPANCIES FOR REVIEW AND APPROVAL
6. THE ADDITIONAL REINFORCEMENT SHOWN HERE IS NOT REQUIRED FOR OPENINGS 4" IN DIAMETER OR SMALLER PROVIDED NO BEAM REINFORCEMENT IS INTERRUPTED AND MINIMUM CONCRETE COVER IS PROVIDED AROUND ALL BARS. IT IS ACCEPTABLE TO ADJUST BEAM REINFORCEMENT WITHIN MAXIMUM SPACING LIMITS FOR STIRRUPS OR SIDE BARS

8 TYPICAL CONCRETE BEAM WITH CIRCULAR PENETRATION
NOT TO SCALE



NOTES:

1. ALL BEAM PENETRATIONS SHALL BE SHOWN ON THE SHOP DRAWINGS FOR REVIEW BY THE ARCHITECT/ENGINEER. NO PENETRATIONS SHALL BE MADE WITHOUT PRIOR REVIEW BY THE ARCHITECT AND WRITTEN APPROVAL FROM THE SER
2. THESE DETAILS SHALL BE USED IN CONJUNCTION WITH CONCRETE BEAM PENETRATION SCHEDULE
3. THE MINIMUM CLEAR SPACE BETWEEN TWO ADJACENT PENETRATIONS SHALL BE GREATER OF THE LARGEST PENETRATION DIMENSION OR TWO TIMES THE BEAM DEPTH
4. THE MINIMUM CLEAR DIMENSION BETWEEN THE EDGE OF A PENETRATION AND THE FACE OF SUPPORT , FACE OF SUPPORTED BEAM, OR POINT LOAD IMPOSED, SHALL BE THE BEAM DEPTH
5. SEE STRUCTURAL DRAWINGS FOR PENETRATIONS. GENERAL CONTRACTOR SHALL VERIFY QUANTITY, SIZE, AND LOCATION OF ALL PENETRATIONS WITH MEP DRAWINGS.NOTIFY SER IN WRITING OF ANY DISCREPANCIES FOR REVIEW AND APPROVAL
6. THE ADDITIONAL REINFORCEMENT SHOWN HERE IS NOT REQUIRED FOR OPENINGS 4"x4" OR SMALLER PROVIDED NO BEAM REINFORCEMENT IS INTERRUPTE AND MINIMUM CONCRETE COVER IS PROVIDED AROUND ALL BARS. IT IS ACCEPTABLE TO ADJUST BEAM REINFORCEMENT WITHIN MAXIMUM SPACING LIMITS FOR STIRRUPS OR SIDE BARS

9 TYPICAL CONCRETE BEAM WITH RECTANGULAR PENETRATION
NOT TO SCALE

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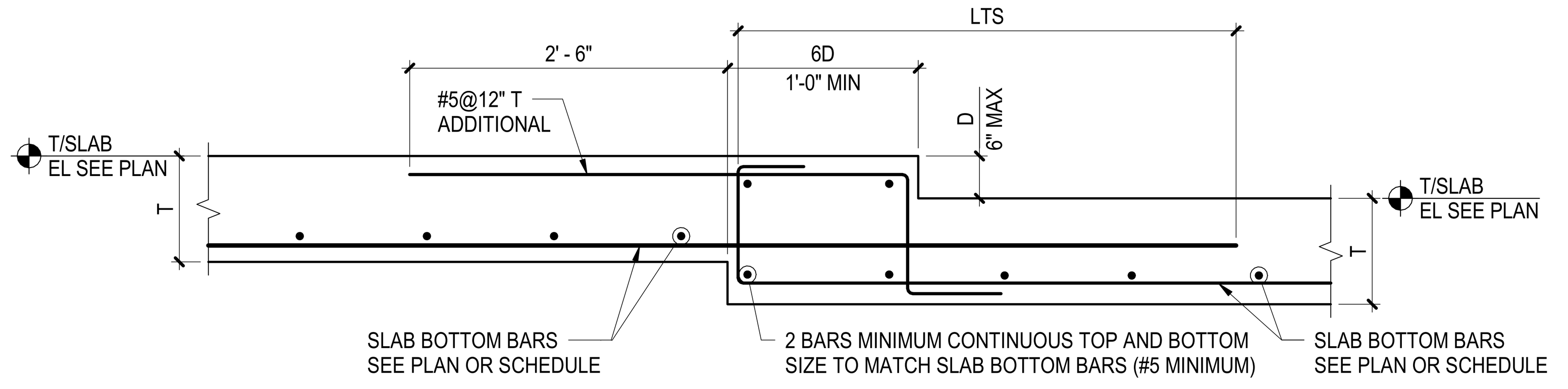
TYPICAL CONCRETE BEAM DETAILS

FOUNDATION TO GRADE
03/03/17

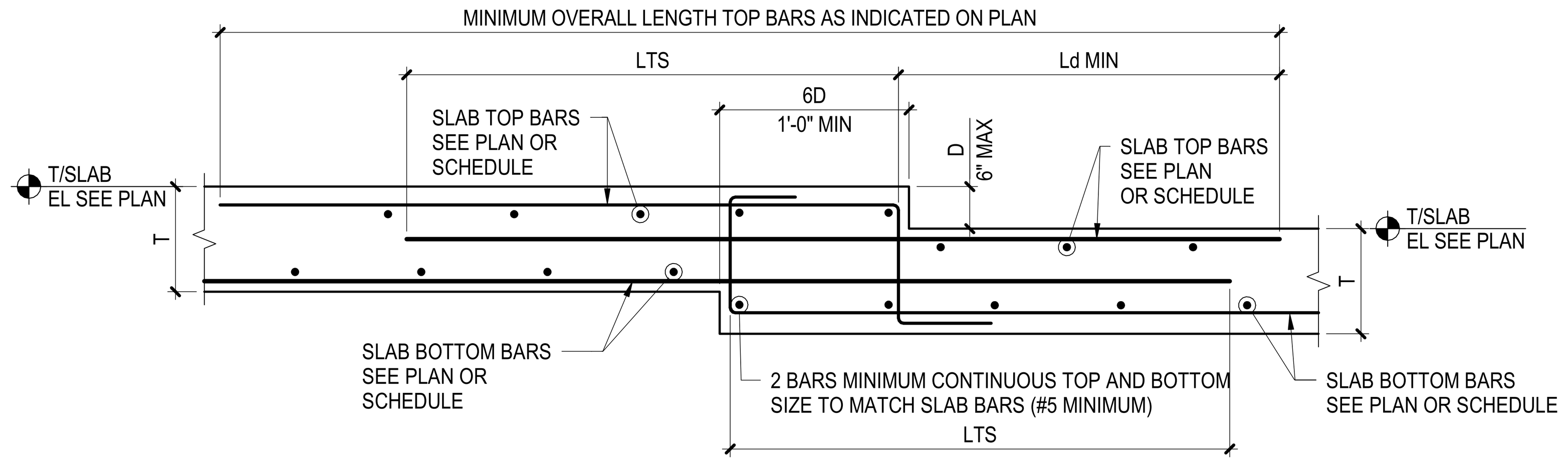
REVISIONS

NO.	DESCRIPTION	DATE

S4030



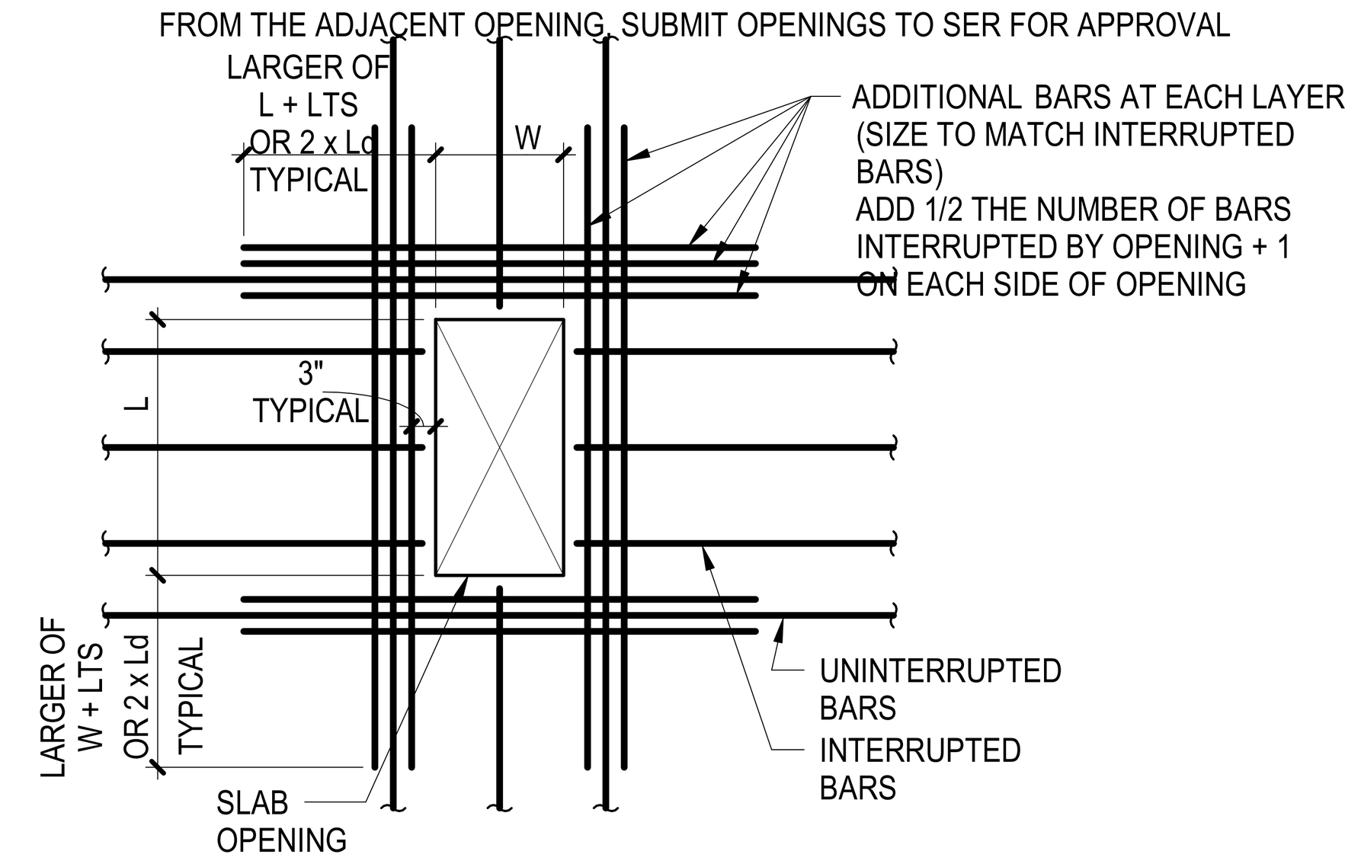
D LESS THAN T MINUS 2 INCHES
BOTTOM BARS INTERRUPTED BY STEP



D LESS THAN T MINUS 2 INCHES
TOP AND BOTTOM BARS INTERRUPTED BY STEP

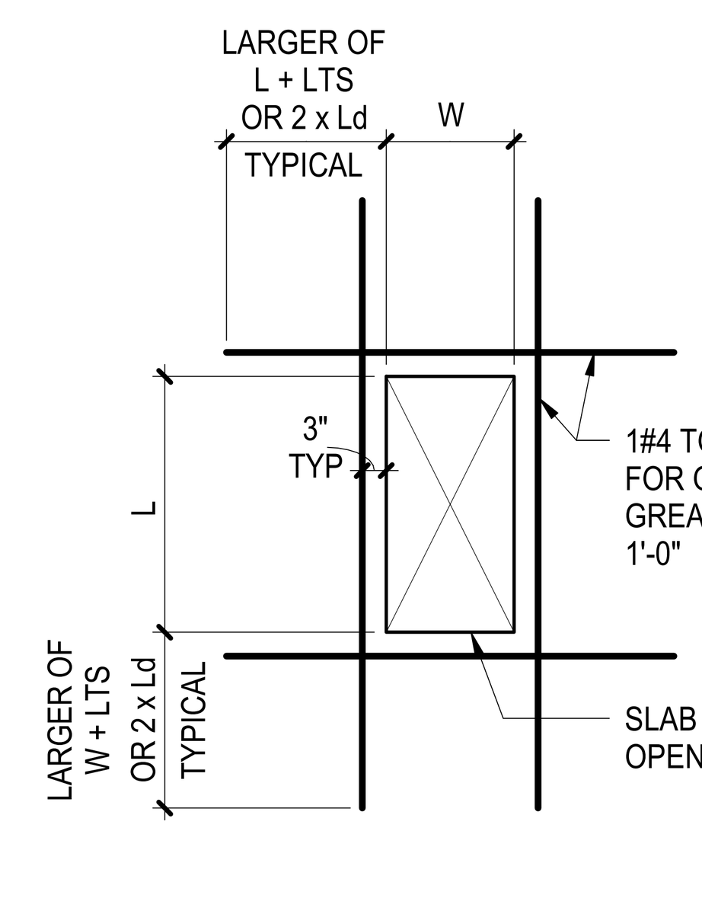
1 TYPICAL STEP IN SLAB DETAILS
NOT TO SCALE

NOTES:
1. REFER TO PLANS FOR ADDITIONAL BARS AROUND OPENINGS
2. SEE STRUCTURAL DRAWINGS FOR QUANTITY AND LOCATIONS OF OPENINGS. CONTRACTOR SHALL VERIFY SIZE AND LOCATION OF ALL OPENINGS WITH MEP DRAWINGS NOTIFY STRUCTURAL ENGINEER IN WRITING OF ANY DISCREPANCIES FOR REVIEW AND APPROVAL
3. FOR TWO-WAY SLAB SEE TYPICAL TWO-WAY SLAB OPENING LIMITATIONS. FOR OPENING NOT MEETING LIMITATIONS OR GREATER THAN 3 FEET, SUBMIT OPENINGS TO SER FOR APPROVAL
4. FOR ONE-WAY SLABS WHERE THE OPENING DIMENSION PERPENDICULAR TO THE DIRECTION OF THE SPAN IS GREATER THAN 2 FEET, SUBMIT OPENINGS TO SER FOR APPROVAL
5. WHERE ADJACENT OPENINGS ARE NOT SEPARATED BY 2X THE LARGEST OPENING DIMENSION OR WOULD INTERRUPT THE ADDITIONAL REINFORCEMENT FROM THE ADJACENT OPENING, SUBMIT OPENINGS TO SER FOR APPROVAL



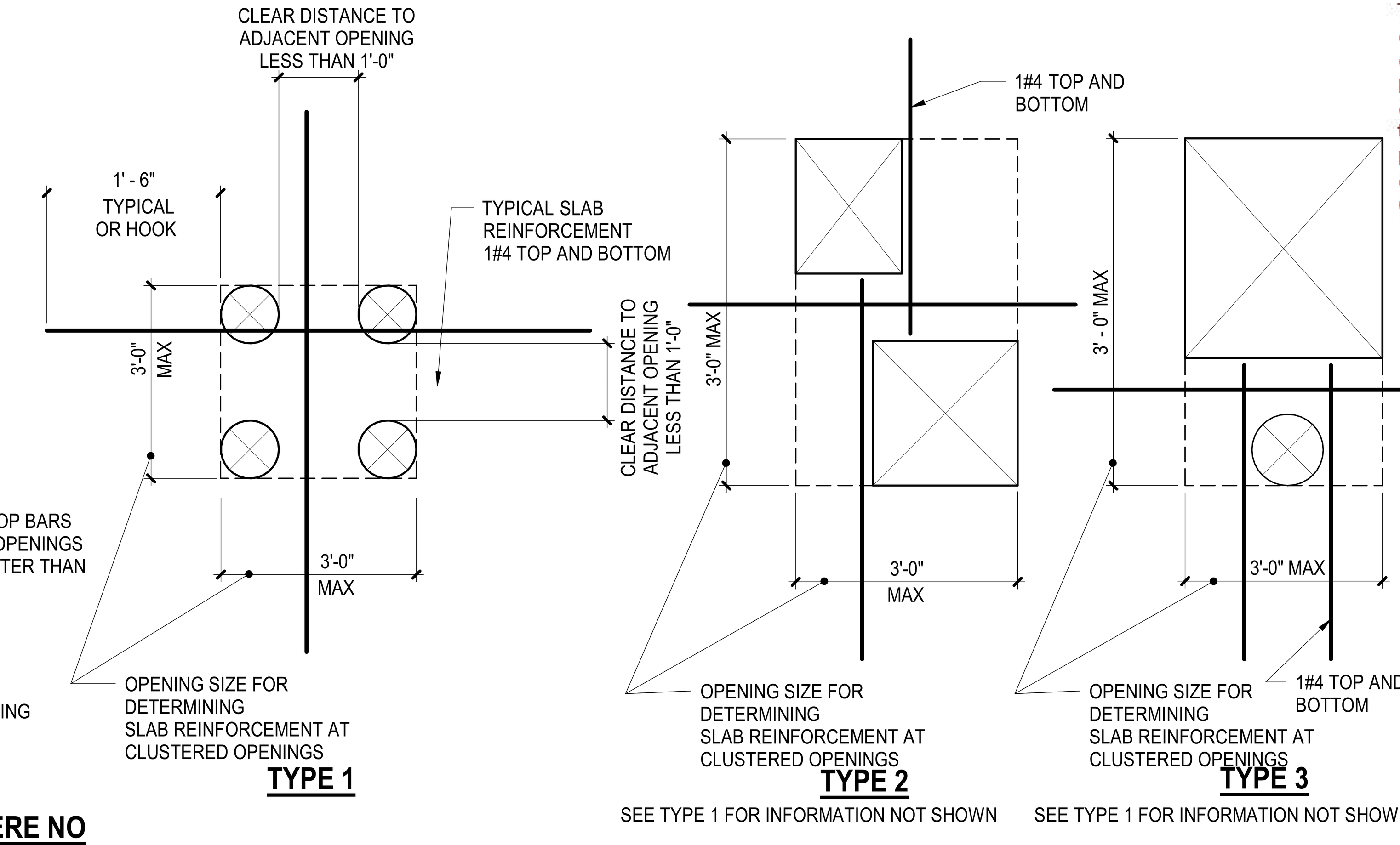
ADDITIONAL BARS WHERE BARS ARE INTERRUPTED

NOTES: ADDITIONAL BARS
1. PROVIDE ADDITIONAL BARS ON EACH SIDE OF OPENING FOR TOP AND BOTTOM BARS THAT ARE INTERRUPTED BY OPENINGS DISTRIBUTE REPLACEMENT BARS EQUALLY TO BOTH SIDES OF OPENING AT 3" SPACING
2. PROVIDE A MINIMUM OF 2 BARS EACH SIDE OF OPENING TOP AND BOTTOM WHERE NO TOP BARS ARE PRESENT, PROVIDE ADDITIONAL TOP BARS SHOWN ABOVE
3. AT CLUSTERED OPENINGS, PROVIDE THESE ADDITIONAL BARS AROUND THE CLUSTER PLUS THE ADDITIONAL BARS SHOWN IN THE CLUSTERED OPENING DETAIL



ADDITIONAL TOP BARS WHERE NO TOP BARS ARE PRESENT

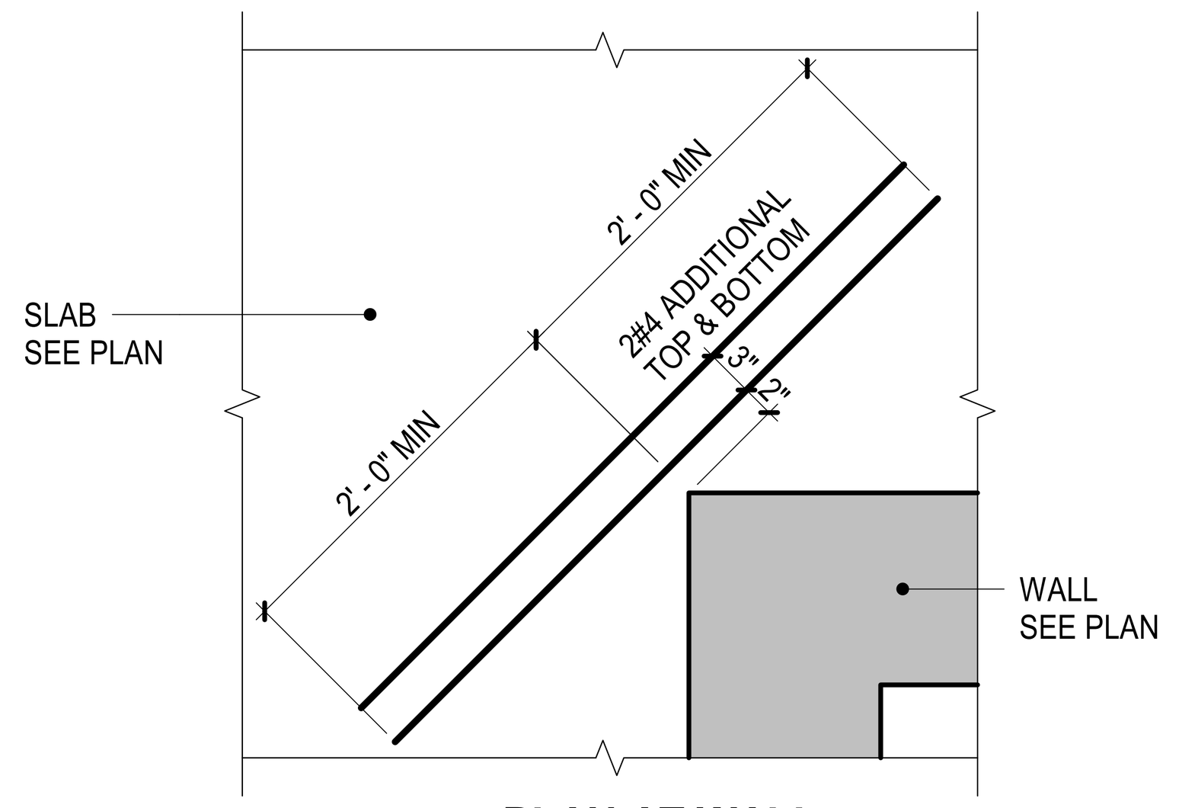
ADDITIONAL TOP BARS	
OPENING SIZE (LARGER DIMENSION OF OPENING)	TOP BARS ALL SIDES
0 - 12"	NONE
12" - 36"	(1) #4



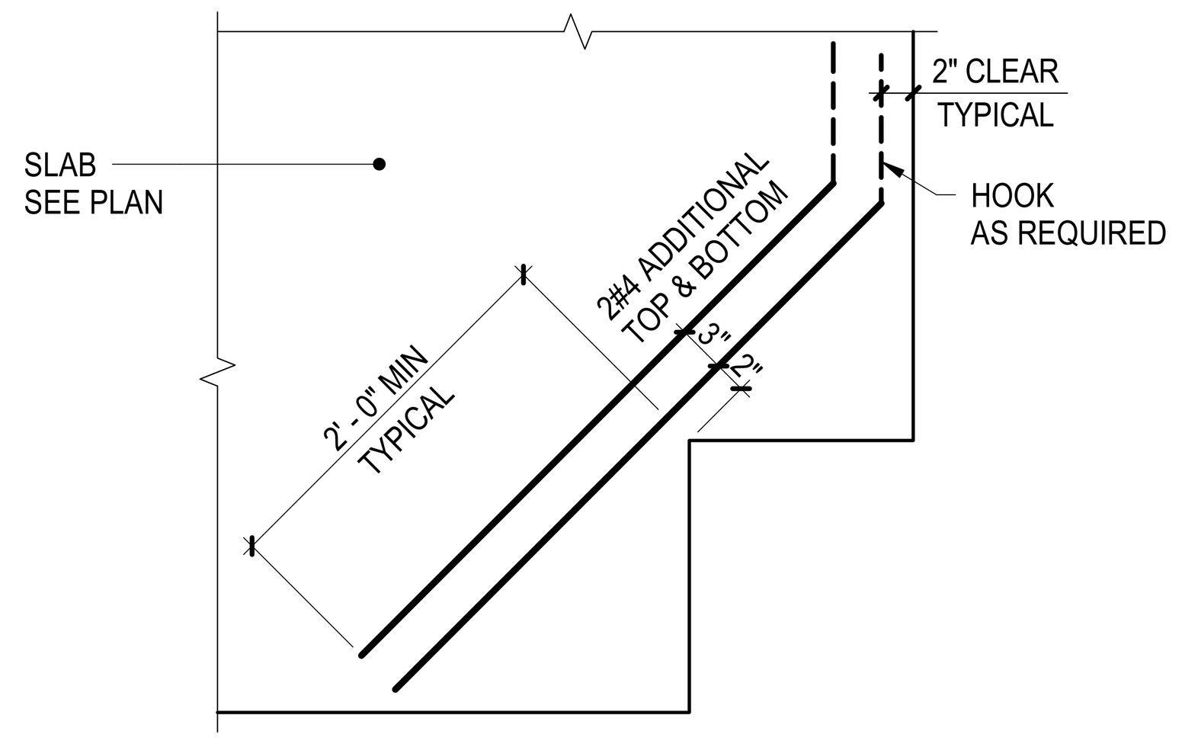
CLUSTERED OPENING ADDITIONAL REINFORCEMENT

NOTES: CLUSTERED OPENINGS
1. THE REINFORCEMENT REQUIREMENTS AT CLUSTERED OPENINGS ARE IN ADDITION TO THE TYPICAL SLAB OPENING DETAIL REQUIREMENTS AROUND THE ENTIRE CLUSTER
2. FOR ONE-WAY SLABS, WHEN CLUSTERED OPENING IS GREATER THAN 2 FEET, SUBMIT TO SER FOR APPROVAL.
3. FOR TWO-WAY SLABS, WHEN CLUSTERED OPENING DOES NOT MEET TWO-WAY SLAB OPENING LIMITATIONS OR IS GREATER THAN 3 FEET, SUBMIT TO SER FOR APPROVAL

2 TYPICAL SLAB OPENING DETAILS
NOT TO SCALE

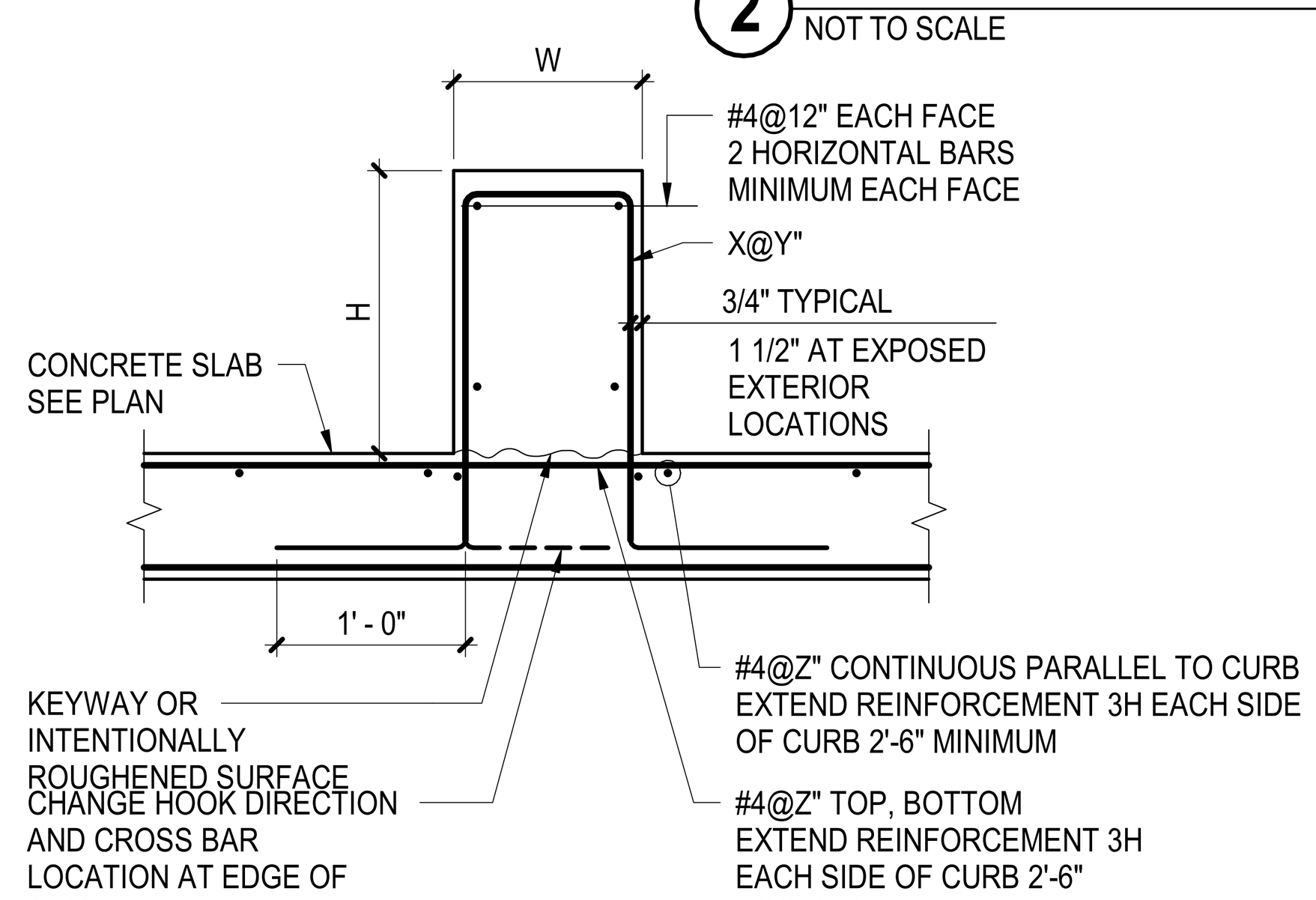


PLAN AT WALL



PLAN AT RE-ENTRANT CORNER

3 TYPICAL CORNER SLAB DETAILS
NOT TO SCALE



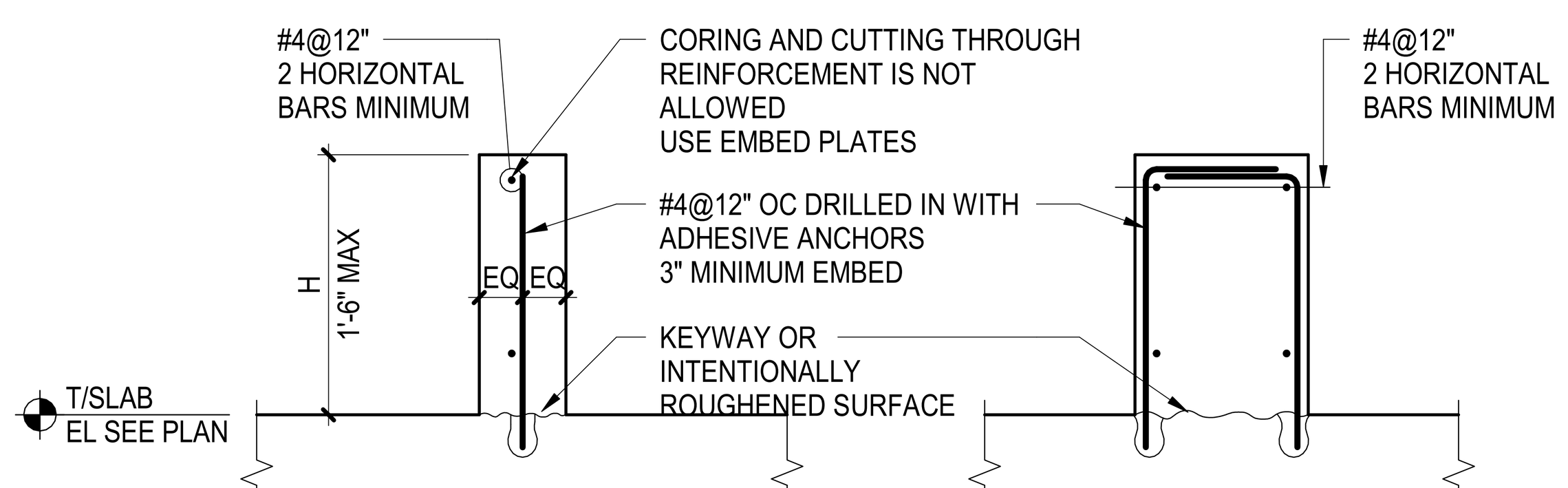
CURB WIDTH OVER 8"

NOTES:
1. FOR SIZE AND LOCATION SEE ARCH, MEP, OR STRUCTURAL DRAWINGS
2. ROUGHEN SURFACE OF SLAB TO 1/4" AMPLITUDE CLEAN THOROUGHLY AND APPLY BONDING AGENT IMMEDIATELY BEFORE CASTING CURB
3. THIS DETAIL IS APPLICABLE TO CURBS SUPPORTING EXTERIOR WALLS. SEE ADDITIONAL DETAILS FOR CURTAIN WALL SUPPORT. SEE ARCH DRAWINGS FOR EMBEDDED PLATES AND BLOCKOUTS
4. SEE ARCH DRAWINGS FOR EMBEDDED PLATES AND BLOCKOUTS. REPLACE REINFORCEMENT INTERRUPTED BY BLOCKOUTS
5. AT CONTRACTORS OPTION DRILLED-IN DOWELS WITH ADHESIVE ANCHORS MAY BE PERMITTED BAR SIZE AND SPACING MAY CHANGE DEPENDING ON EMBEDMENT REQUIRED CONTRACTOR TO VERIFY WITH SER

CURB DIMENSION AND REINFORCEMENT SCHEDULE

W	H	X@Y"	Z"

4 TYPICAL CURB DETAILS (AT EXTERIOR)
NOT TO SCALE

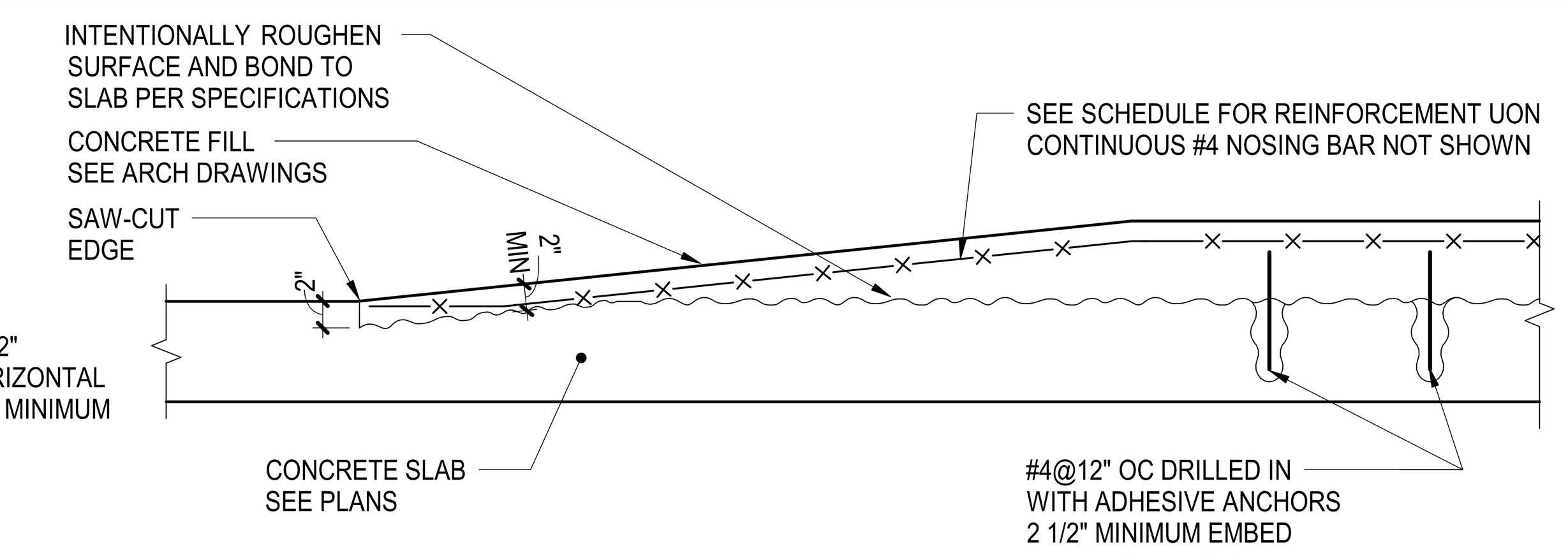


CURB WIDTH - 4" MINIMUM TO 7" MAXIMUM

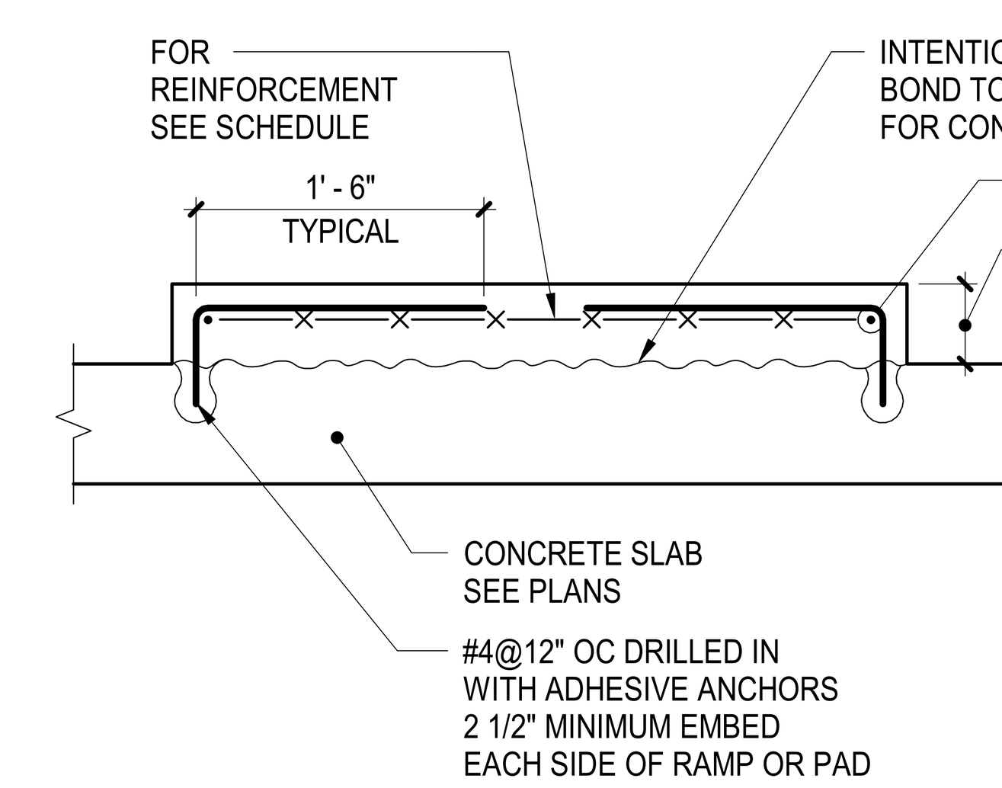
CURB WIDTH OVER 7"

NOTES:
1. FOR SIZE AND LOCATION SEE ARCH, MEP, OR STRUCTURAL DRAWINGS
2. ROUGHEN SURFACE OF SLAB TO 1/4" AMPLITUDE CLEAN THOROUGHLY AND APPLY BONDING AGENT IMMEDIATELY BEFORE CASTING CURB
3. THIS DETAIL IS APPLICABLE AT CURBS FOR NON-STRUCTURAL ELEMENTS SUCH AS SKYLIGHTS, INTERIOR PARTITIONS AND INTERIOR RAILINGS
4. SEE ARCH DRAWINGS FOR EMBEDDED PLATES AND BLOCKOUTS REPLACE REINFORCEMENT INTERRUPTED BY BLOCKOUTS

5 TYPICAL CURB DETAILS (AT INTERIOR)
NOT TO SCALE



DETAIL AT RAMP

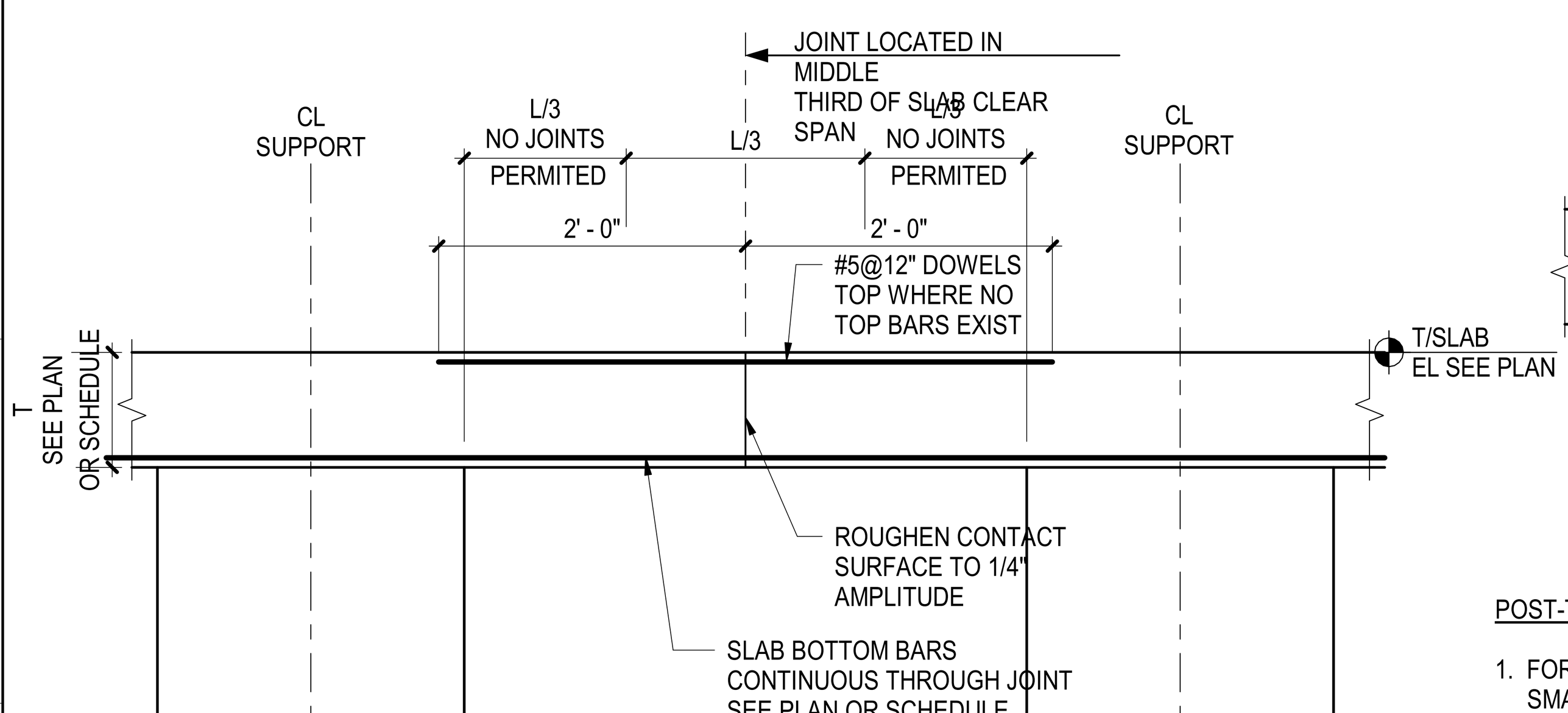


THICKNESS	REINFORCEMENT
≤ 3"	WWR 6x6 - W2.9xW2.9
≤ 4"	WWR 6x6 - W4.0xW4.0
≤ 6"	#4 @ 12" TOP EACH WAY
≤ 12"	#4 @ 12" TOP & BOTTOM EACH WAY

NOTE:
1. THIS DETAIL IS NOT APPLICABLE TO GENERAL RAISED SLAB AREA HIGHER THAN 4" OTHER THAN MECHANICAL PADS AND HOUSEKEEPING PADS

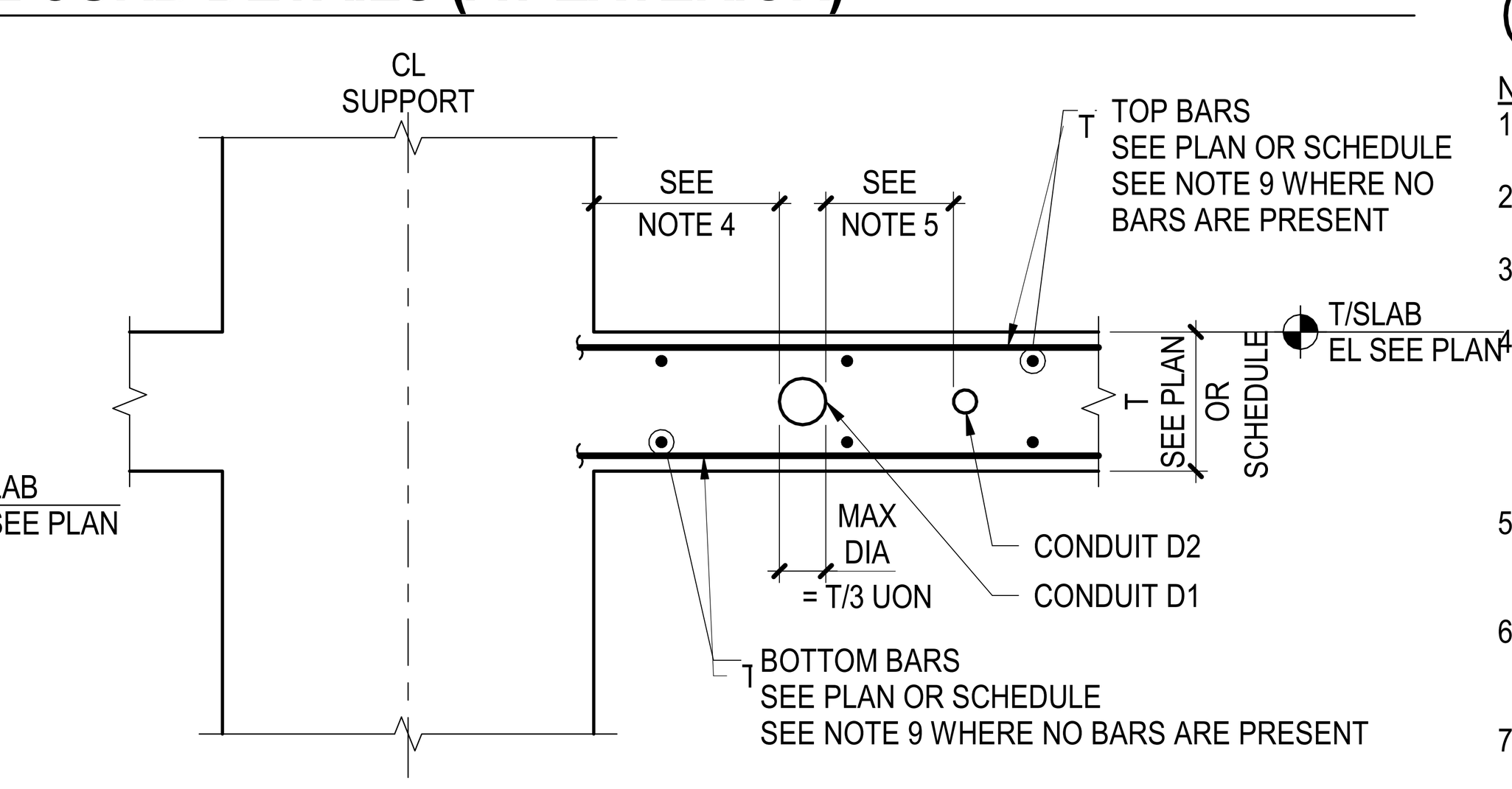
SECTION AT RAMP OR PAD

6 TYPICAL DETAIL OF CONCRETE FILL HOUSEKEEPING PAD / MECHANICAL PAD / RAMP
NOT TO SCALE



NOTES:
1. CONTRACTOR SHALL SUBMIT CONSTRUCTION JOINT LAYOUT PLAN FOR SER APPROVAL
2. FOR SLAB REINFORCEMENT NOT SHOWN, SEE PLAN OR SCHEDULE

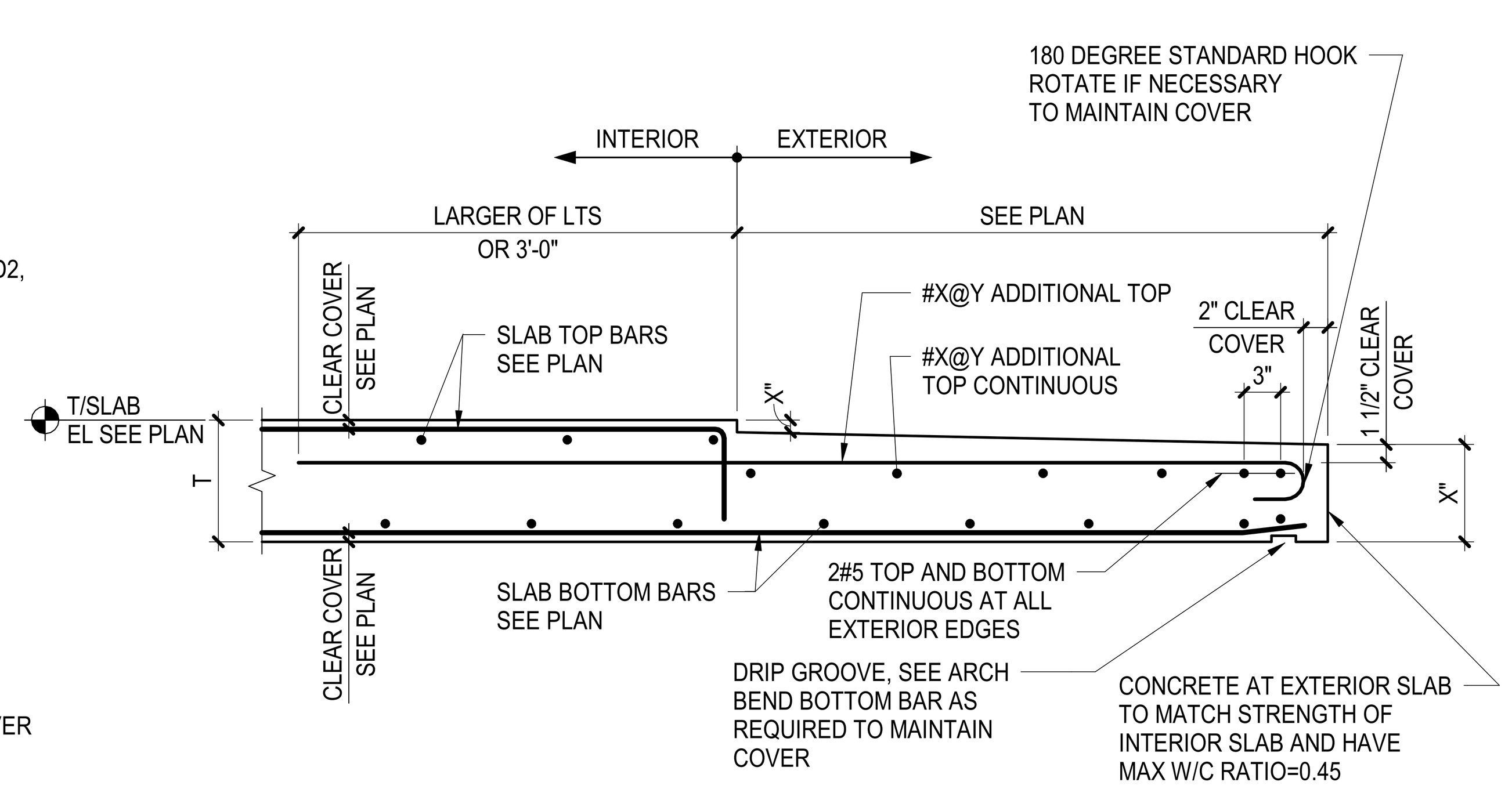
7 TYPICAL SLAB CONSTRUCTION JOINT
NOT TO SCALE



POST-TENSIONED CONCRETE NOTES:
1. FOR POST-TENSIONED CONCRETE, MAXIMUM CONDUIT OUTER DIAMETER IS THE SMALLER OF:
   a. T/4
   b. 2"
2. CONDUITS MAY NOT BE TIED TO, CONTACT, DISPLACE, OR INTERRUPT THE POST-TENSIONING REINFORCEMENT
3. MAINTAIN A CLEAR SPACING BETWEEN TENDONS AND CONDUITS OF THREE TIMES THE DIAMETER OF THE CONDUIT BUT NOT LESS THAN 6 INCHES

NOTES:
1. PLACE CONDUITS BETWEEN TOP AND BOTTOM LAYER OF REINFORCEMENT CENTERED WITHIN SLAB
2. CROSSOVER OF CONDUITS AND/OR PIPES IS NOT PERMITTED WITHOUT PRIOR WRITTEN APPROVAL BY SER
3. CONDUITS TO BE PLASTIC OR STEEL. USE OF ALUMINUM CONDUITS IS NOT PERMITTED
4. PLACE CONDUITS THE LARGEST OF THE FOLLOWING CLEAR FROM FACE OF COLUMN:
   a. LARGEST COLUMN DIMENSION (WIDTH OR DEPTH)
   b. 2 x SLAB THICKNESS T
   c. 1'-0"
5. MAINTAIN A CLEAR SPACING BETWEEN CONDUITS OF THREE TIMES THE LARGER OUTER DIAMETER OF D1 AND D2, BUT NOT LESS THAN 6 INCHES
6. NO MORE THAN THREE (3) CONDUITS PER SIX (6) FT WIDTH OF SLAB ARE PERMITTED WITHOUT PRIOR WRITTEN APPROVAL BY SER
7. WHERE LARGE NUMBERS OF CONDUIT ENTER THE SLAB AT ONE LOCATION:
   a. SUBMIT LAYOUT FOR APPROVAL BY SER
   b. FAN OUT CONDUITS IMMEDIATELY
   c. PROVIDE ADDITIONAL TOP & BOTTOM REINFORCEMENT AS DIRECTED BY SER UNTIL NOTES 5 AND 6 SPACING REQUIREMENTS ARE MET
8. NO CONDUITS ARE PERMITTED WITHIN A DISTANCE "T" CLEAR FROM SLAB EDGE, SLAB DEPRESSION, OR DROP PANEL WITHOUT PRIOR WRITTEN APPROVAL BY SER
9. WHERE NO BARS ARE PRESENT AT ONE OR MORE FACES OF SLAB, PROVIDE THE FOLLOWING REINFORCEMENT PERPENDICULAR TO THE CONDUIT(S) 3'-0" LONG OR EXTENDING 1'-0" PAST EACH SIDE OF CONDUIT(S), WHICHEVER IS LARGER:
   T < 8", #4@12" OC
   8" < T < 1'-0", #5@12" OC
   1'-0" < T < 1'-6", #6@12" OC
10. ANY DEVIATIONS FROM THE ABOVE STATED CONDITIONS REQUIRE PRIOR WRITTEN APPROVAL BY SER

8 TYPICAL CONDUITS IN SLAB
NOT TO SCALE



9 TYPICAL DETAIL AT EXTERIOR SLAB (BALCONY / TERRACE)
NOT TO SCALE

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2121 WARD PLACE, NW
4TH FLOOR
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MCMILLAN COMMUNITY CENTER

2940 N Capitol St, NW
Washington, DC
20002

QEA PROJECT #: 31610100
TT PROJECT #: M16242.00

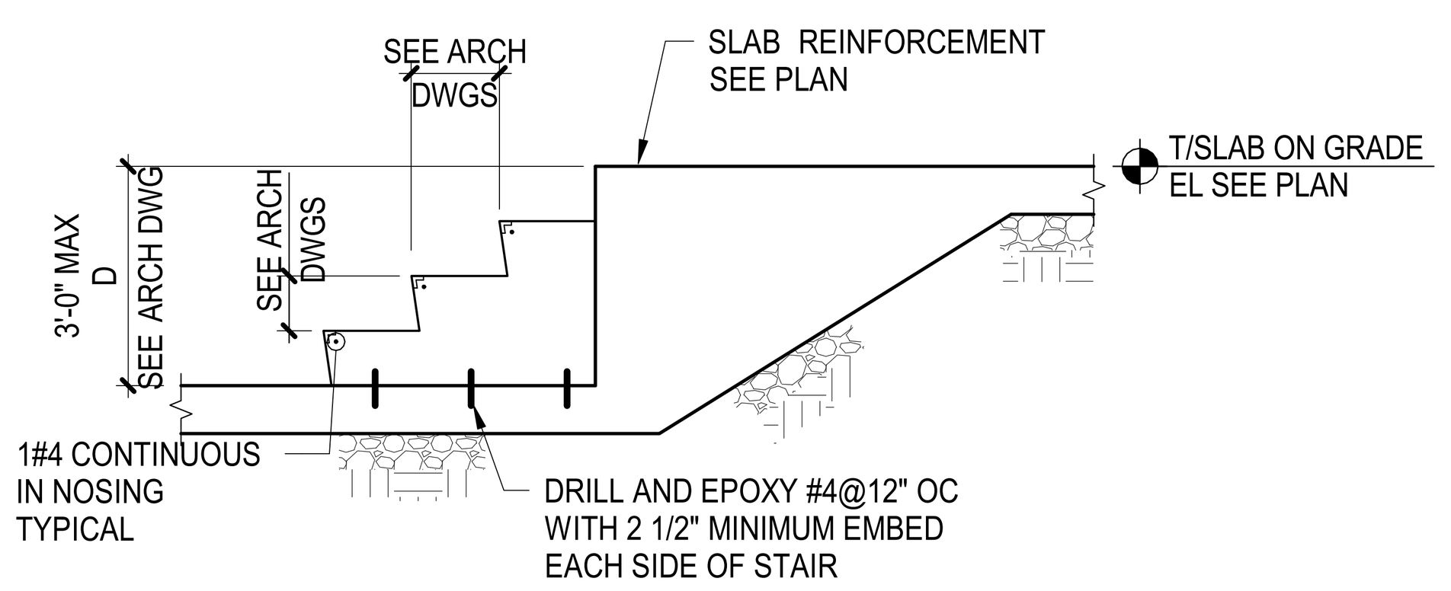
TYPICAL CONCRETE SLAB DETAILS

FOUNDATION TO GRADE
03/03/17

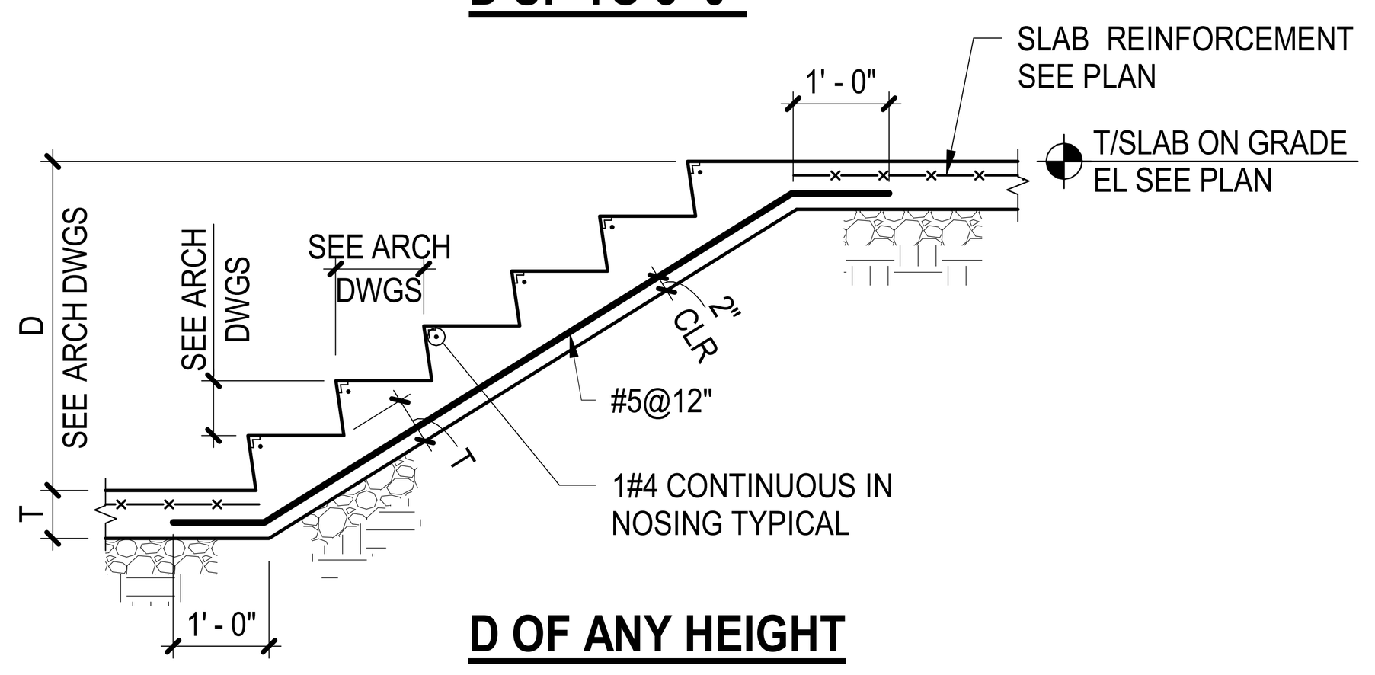
REVISIONS

NO.	DESCRIPTION	DATE

S4040



D UP TO 3'-0"



D OF ANY HEIGHT

NOTE:

1. COORDINATE LOCATIONS WITH ARCHITECTURAL DRAWINGS

(1) TYPICAL INTERIOR STAIR DETAIL AT SLAB ON GRADE

NOT TO SCALE

GOVERNMENT OF THE DISTRICT OF COLUMBIA
PERMIT OPERATIONS DIVISION
PLANS APPROVED

Permit No. FD1800040 Date 08/23/19

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Plumbing Review - Syed Hashmi - 08-23-2019
Structural Review - Bihon Debessai - 08-23-2019
DOEE SE-SW Review - Nykia Barnes - 08-23-2019
DOEE GAR Review - Nykia Barnes - 08-23-2019
DC Water Review - Vahid Bilvardi - 08-23-2019

DCRA APPROVAL STAMP

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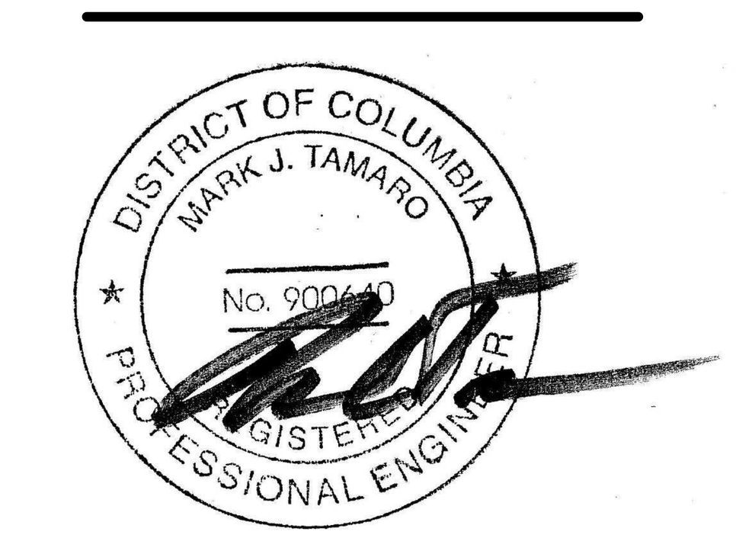
MCMILLAN COMMUNITY CENTER

2940 N Capitol St, NW Washington, DC 20002

QEA PROJECT #: 31610100
TT PROJECT #: M16242.00

TYPICAL CONCRETE SLAB DETAILS

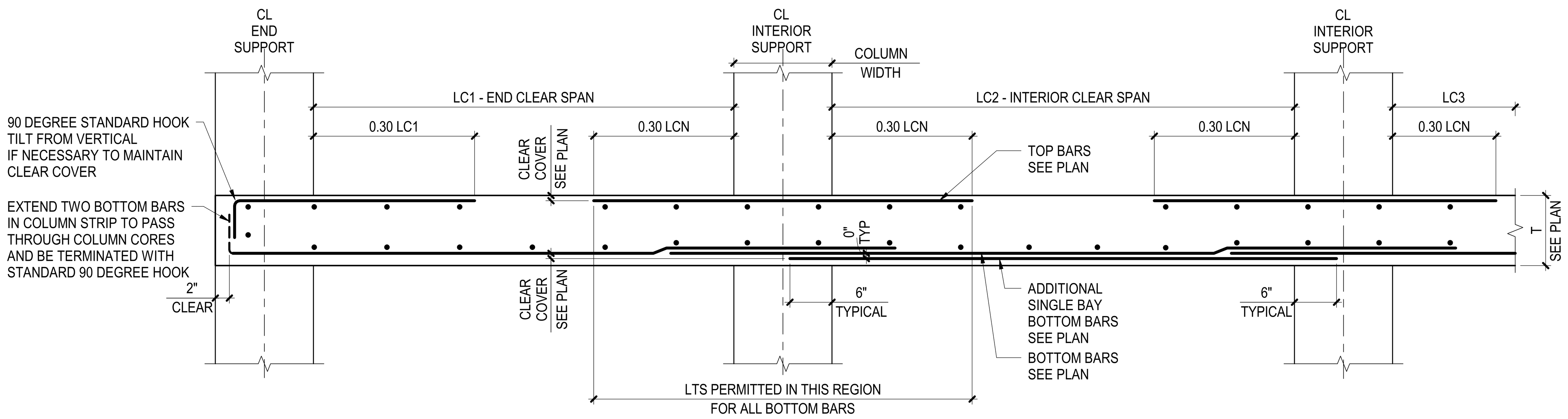


FOUNDATION TO GRADE
03/03/17

REVISIONS

NO.	DESCRIPTION	DATE

S4041

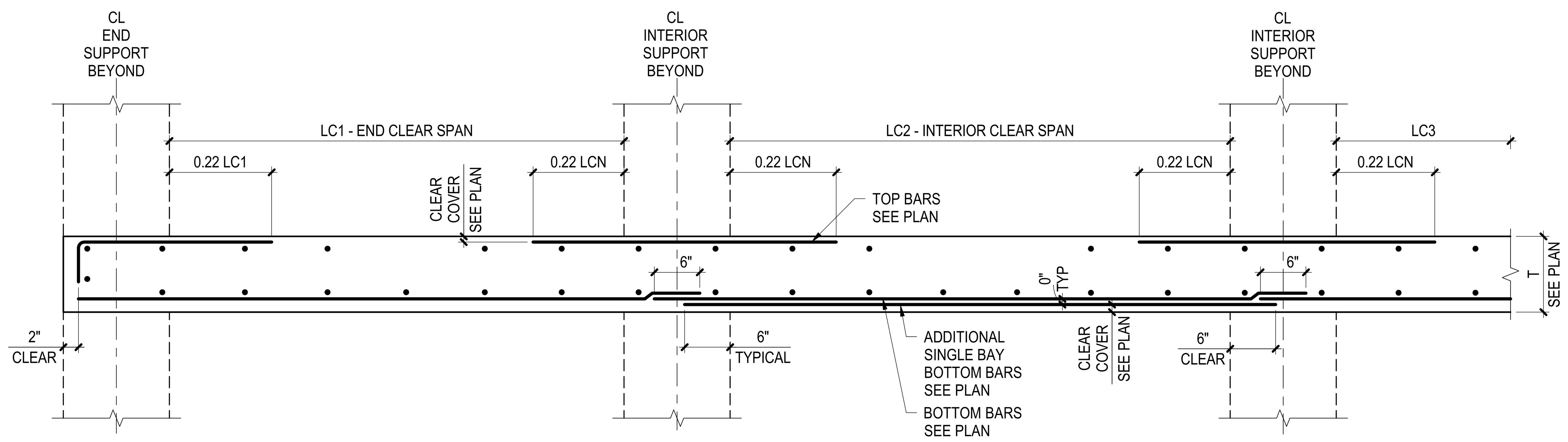


NOTES:

1. LCN DENOTES LARGER OF ADJACENT CLEAR SPANS
2. ADDITIONAL MULTI-BAY BOTTOM BARS TO BE SPLICED AS SHOWN ABOVE AND EXTEND 6" INTO SUPPORT AT BAR END

1A TYPICAL TWO-WAY FLAT PLATE - COLUMN STRIP

NOT TO SCALE

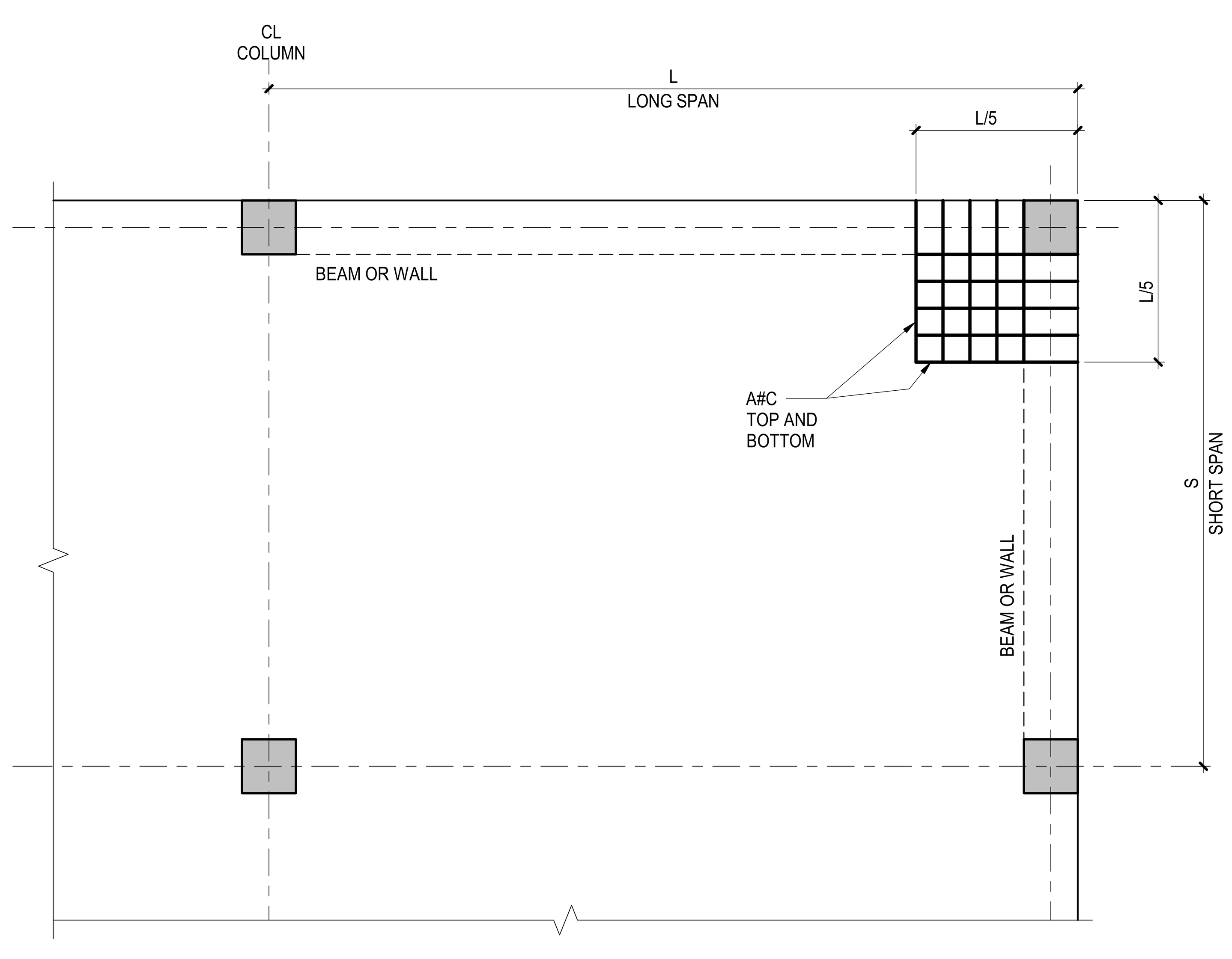


NOTES:

1. LCN DENOTES LARGER OF ADJACENT CLEAR SPANS
2. ADDITIONAL MULTI-BAY BOTTOM BARS TO BE SPLICED AS SHOWN ABOVE AND EXTEND 6" INTO SUPPORT AT BAR END

1B TYPICAL TWO-WAY FLAT PLATE - MIDDLE STRIP

NOT TO SCALE

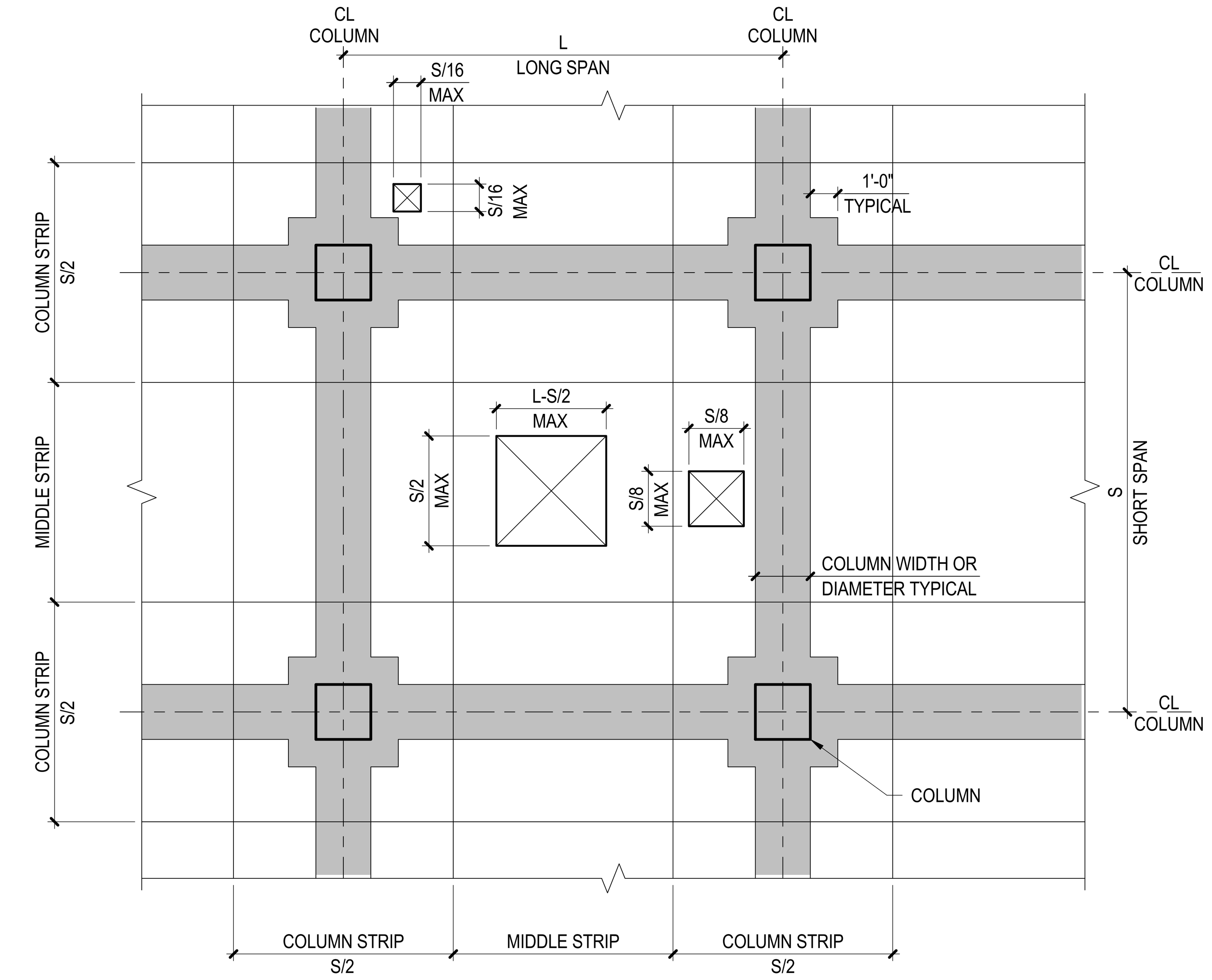


NOTES:

1. SEE PLAN FOR SLAB REINFORCEMENT
   BARS SHOWN ABOVE ARE ADDITIONAL TO THOSE SHOWN ON PLAN
   BARS SHALL BE LOCATED IN SAME LAYERS AS SLAB REINFORCEMENT
   BEAM TOP BARS TO BE LOCATED BELOW SLAB TOP BARS
2. ADDITIONAL BARS TO BE EQUALLY SPACED WITHIN EXTENT SHOWN ABOVE
3. ADDITIONAL TOP BARS TO BE HOOKED INTO SUPPORT
   ADDITIONAL BOTTOM BARS TO EXTEND 6" INTO SUPPORT

3 TYPICAL BEAM OR WALL SUPPORTED SLAB EXTERIOR CORNER DETAIL

NOT TO SCALE



NOTES:

1. INDICATES ZONE WHERE OPENINGS ARE NOT PERMITTED WITHOUT WRITTEN APPROVAL BY SER
   OPENINGS NOT SHOWN ON STRUCTURAL DRAWINGS MUST BE COORDINATED AND APPROVED BY SER
2. OPENINGS MEETING THE LIMITATIONS ABOVE SHALL BE PROVIDED WITH REINFORCEMENT AS SHOWN ON PLAN AND FOLLOWING TYPICAL SLAB OPENING DETAILS INCLUDING ADDITIONAL BARS FOR INTERRUPTED REINFORCEMENT
3. OPENINGS SHALL BE SHOWN ON COORDINATED PENETRATION DRAWINGS AND REINFORCEMENT SHOP DRAWINGS FOR SER REVIEW
4. OPENINGS NOT MEETING THESE LIMITATIONS MUST BE SUBMITTED TO THE SER FOR COORDINATION, DESIGN, AND APPROVAL PRIOR TO SUBMITTING SHOP DRAWINGS

2 TYPICAL TWO-WAY SLAB OPENING LIMITATIONS

NOT TO SCALE

GOVERNMENT OF THE DISTRICT OF COLUMBIA
PERMIT OPERATIONS DIVISION
PLANS APPROVED
Permit No. FD1800040 Date 08/23/19

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2940 N Capitol St, NW
Washington, DC
20002

QEA PROJECT #: 31610100
TT PROJECT #: M16242.00

TYPICAL CONCRETE TWO-WAY SLAB DETAILS

DISTRICT OF COLUMBIA
MARK J. TAMARO
No. 900410
REGISTERED
PROFESSIONAL ENGINEER

FOUNDATION TO GRADE
03/03/17

REVISIONS

NO.	DESCRIPTION	DATE

S4050

GOVERNEMENT OF THE DISTRICT OF COLUMBIA

Department of Consumer and Regulatory Affairs

GOVERNMENT OF THE DISTRICT OF COLUMBIA
PERMIT OPERATION DIVISION
Plans Approved

Permit # FD1800040 Date 08/23/19

All work must be done strictly in accordance herewith an approved plans. Approved plans shall be kept on the site until completion of the construction. No inspection will be made without approved plans on site. The approval does not prevent a field inspection from ordering corrections to meet codes when issues are noted during inspections

Statement of Special Inspections

Element	Applicable Code Reference	Y/N	Scope of Service	Agent
Soil		Y		SIER
Excavation	IBC-3304, 1804.1, 1803.5.7 & Construction Docs.	Y		SIER
Earth Retention Systems		N		
Retaining Walls	Plans & Specifications	N		
Sheeting & Shoring w/ or w/o tie backs, post tensioning or Rock Anchors	Plans & Specifications	N		
Soil Nailing Systems	Plans & Specifications	N		
Drilled piers	Plans & Specifications	N		
Sheet piling	Plans & Specifications	N		
Tied-back walls	Plans & Specifications	N		
Slury walls	Plans & Specifications	N		
Fill Placement	IBC-1705.6, Table 1705.6 (3,4,5)	Y		SIER
Shallow Foundations	IBC-Table 1705.6 (1,2)	N		
Deep Foundations	IBC-1803.5.5, 1803.5.6	Y		SIER
Driven deep foundations	IBC-1705.7, Table 1705.7	N		
Cast-in-place deep foundations	IBC-1705.8, Table 1705.8, IBC-1705.3	Y		SIER

Element	Applicable Code Reference	Y/N	Scope of Service	Agent
Specialty piles to include Micro piles, herical piers, geo-piers or other similar Systems	IBC-1705.9, 1810.4.10, 1810.4.11, and const. documents by RDPRC	N		
Cast-in-place concrete	IBC-1705.3, Table 1705.3	Y		SIER
Sampling of fresh concrete, fabricate specimen for strength test, perform slump and air content test, and to determine the temperature of the concrete	T1705.3 (6), ASTM C-172, ASTM C-31, ACI 318:5.6, 5.8	Y		SIER
Verification of required mix design	IBC-1904.2, 1910.2, 1910.3, ACI 318: CH 4,5.2-5.4	Y		SIER
Reinforcing steel welding	IBC-T-1705.2.2 (2b), AWS D1.4, ACI 318:3.5.2	Y		SIER
Bolts, inserts & anchors	IBC-T-1705.3 (3), 1908.5 & 1909.1, ACI 318:8.1.3, 21.2.8	Y		SIER
Anchors post installed in hardened concrete	T-1705.3 (4), 1909.1, ACI 318:3.8.6, 8.1.3, 21.2.8	Y		SIER
Formwork shoring & reshoring	T-1705.3 (12)	Y		SIER
Formwork stripping & reshoring	T-1705.3(11), ACI 318, Section 6.2	Y		SIER
Inspection for maintenance of specified curing temperature & techniques	T-1705.3 (8), IBC Sec 1910.9, ACI 318: 5.11-5.13	Y		SIER
Verification of concrete strength prior to stressing the tendons in post tension concrete and prior to stripping the form work	T-1705.3 (11), ACI 318:6.2	Y		SIER
Structural Steel	IBC-1705.2.1, AISC 360	Y		SIER
Inspection of fabricators	IBC-1704.2.5	Y		SIER

Element	Applicable Code Reference	Y/N	Scope of Service	Agent
Special Inspections for Seismic Resistance	IBC-1705.11	N		
Structural Steel	IBC-1705.11.1, AISC 341	N		
Cold-formed steel lihgt-frame construction	IBC-1705.11.3	N		
Special Inspections for wind resistance	IBC-1705.10	N		
Material verification of cold-formed steel deck	T-1705.2.2 (1) a,b and Applicable ASTM standards	N		
Inspection of Welding	T-1705.2.2(2)	N		
Cold-formed steel deck	T-1705.2.2.a(1), AWS D1.3	N		
Reinforcing steel other than ASTM, A706	T-1705.2.2 (2) b (1)	N		
Reinforcing steel resisting axial, flexural forces in intermediate & special frames	T-1705.2.2 (2) b (2), AWS D1.4, ACI 318: Sec 3.5.2	N		
Shear reinforcement	T-1705.2.2 (2) b (3), AWS D1.4, ACI 318: Section 3.5.2	N		
Other reinforcing steel	T-1705.2.2 (2) b (4), AWS D1.4, ACI 318: Section 3.5.2	N		
Erection cold-formed steel trusses spanning 60 feet or greater	IBC-1705.2.2.2	N		
Precast Concrete		N		
Inspection of fabricators	IBC-1704.2.5	N		
Erection of precast concrete members handling, bracing, inspection of welded connections	T-1705.3 (10), ACI 318: CH. 16	N		

Element	Applicable Code Reference	Y/N	Scope of Service	Agent
Inspection of bolts, inserts, & anchors	IBC-1908.5, 1909.1, T-1705.3 (3), ACI 318:8.1.3, 21.2.8	N		
Masonry	IBC-1705.4	N		
Constructing & Testing Masonary Prisms	ASTM C-1314	N		
Mortar & Grout Proportions	ASTM C-270, ASTM C-476	N		
Sampling & Testing Masonry Grout	ASTM 1019-14	N		
Hot Weather Protection	ACI 530.1-98/ ASCE 6-98/ TMS 602-98	N		
Cold Weather Protection	ACI 530.1-98/ ASCE 5-98/TMS 402-98	N		
Placement of Reinforcement	National Concrete Masonry Association: TEK 12-4C	N		
Emp.- Cat. IV, Engr.- Cat. I, II, III- Level B Quality Assursance of Building Code requirements and specifications for masonry structures.	TMS 402-11/ ACI 530-11/ ASCE 5-11	N		
Engr. - Cat. IV Level- C Quality Assurance of Building Code requirements and specifications for masonry structures.	TMS 402-11/ ACI 530-11/ ASCE 5-11	N		
Wood	IBC-1705.5	N		
Inspection of fabricators	IBC-1704.2.5	N		
High-load diaphragms	IBC-1705.5.1	N		
Seismic- resistance Systems	IBC-1705.11.2	N		
Wind resistance systems	IBC-1705.10.1	N		

Element	Applicable Code Reference	Y/N	Scope of Service	Agent
Metal-plate-connected wood trusses spanning 60 feet or greater	IBC-1705.5.2	N		
Sprayed Fire- resistant materials	IBC-1705.13			
Thickness, density, bond strength test	IBC-1705.13.4, 1705.13.5, 1705.13.6			
Mastic & intumescent resistant coating	IBC-1705.14			
Exterior insulation & finish Systems(EIFS)	IBC-1705.15			
Fire-resistant penetrations & joints	IBC-1705.16			
Penetration fire stops	IBC-1705.16.1			
Fire-resistant joint systems	IBC-1705.16.2			
Smoke Control Systems	IBC-1705.17			
Mechanical-Electrical Supports, Seismic-resisting Systems	IBC-1705.11.6			
Tower Cranes	Chapter 13 of Special Inspections Manual	Y		SIER

GOVERNMENT OF THE DISTRICT OF COLUMBIA
PERMIT OPERATION DIVISION
Plans Approved
Permit # FD1800040 Date 08/23/19

All work must be done strictly in accordance herewith an approved plans. Approved plans shall be kept on the site until completion of the construction. No inspection will be made without approved plans on site. The approval does not prevent a field inspection from ordering corrections to meet codes when issues are noted during inspections

*RDPRC- Registered Design Professional in Responsible Charge

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GOVERNMENT OF THE DISTRICT OF COLUMBIA
DEPARTMENT of CONSUMER AND REGULATORY AFFAIRS

WE ARE WASHINGTON DC

Inspection and Compliance Administration
Third Party Specialty & Inspections Program

Statement of Special Inspections

Project: McMillan Community Center

Permit: FD18000040 **Construction Type:** McMillan Community Center

Address: 2940 N. Capitol St., NW, Washington, DC 20002 Group: _____

Project Description: 2 Story Community Center w/ Pool on Lower Level & Multipurpose Room on Upper Level

Problem Soil (Y/N): _____

Prepared Fill (Y/N): _____

Height Stories: 2

Total Area ft. 18,955 sf

Sprinkler (Y/N): Y

Fire Alarm (Y/N): Y

Occupancy Category: B, A-3, S-2 & H

Seismic Desn. Cat: _____

Building owner: DC Department of General Services
Name / Company

Owner address: 1250 U Street, NW | Washington, DC 20009
Street Address / City / State / Zip

Architect of Record: Larry Barr, FAIA | ARC 100516 | Quinn Evans Architects
Name / License No. / Company

Structural Engineer of Record: Mark Tamaro, P.E. | 900640 | Thornton Tomasetti, Inc.
Name / License No. / Company

General Contractor: Tony Barton | 70107331 | Gilbane Building Company
Name / License No. / Company

Special inspections Engineer of record: _____
Name / License No. / Company

Inspection and testing agency: _____
Company

This Statement of Special Inspections is submitted in accordance with Section 1704.2.3 of the 2012 International Building Code. It includes a Schedule of Special Inspection Services Applicable to the above-referenced projects as well as the identity of the individuals, agencies, or firms' intended for conducting these inspections. The Special Inspector(s) shall keep records of all specified special inspections and shall furnish interim special inspection reports to the Building Official and to the Registered Design Professional in Responsible Charge prior to completion of that phase of work. A final report of Special Inspections documenting required Special Inspection and corrections of any discrepancies noted in the special inspection reports shall be submitted to the Building Official and the Registered Design Professional in Responsible Charge at the conclusion of the project.

The Special Inspection program does not relieve the Contractor of the responsibility to comply with the Contract Documents. Jobsite safety and means and methods of construction are solely the responsibility of the Contractor.

Statement of Special Inspections Prepared By: Mark Tamaro, P.E. ***Signature/Date:*** 4-17-19

Reviewed By: Registered Design Professional ***Signature/Date:*** 4-17-19

Building Owner's Authorization ***Signature/Date:*** _____

Building official's Acceptance ***Signature/Date:*** _____