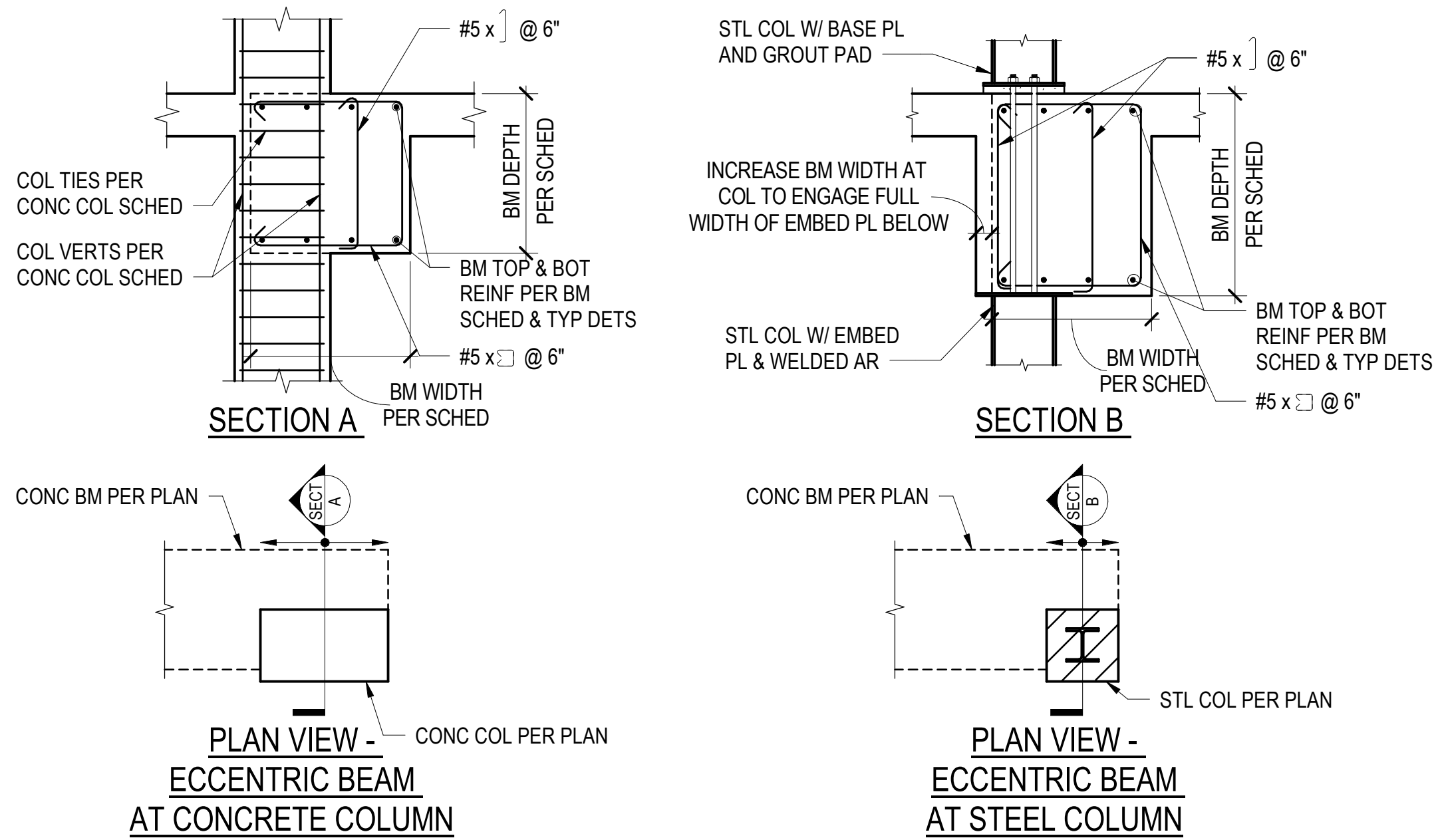
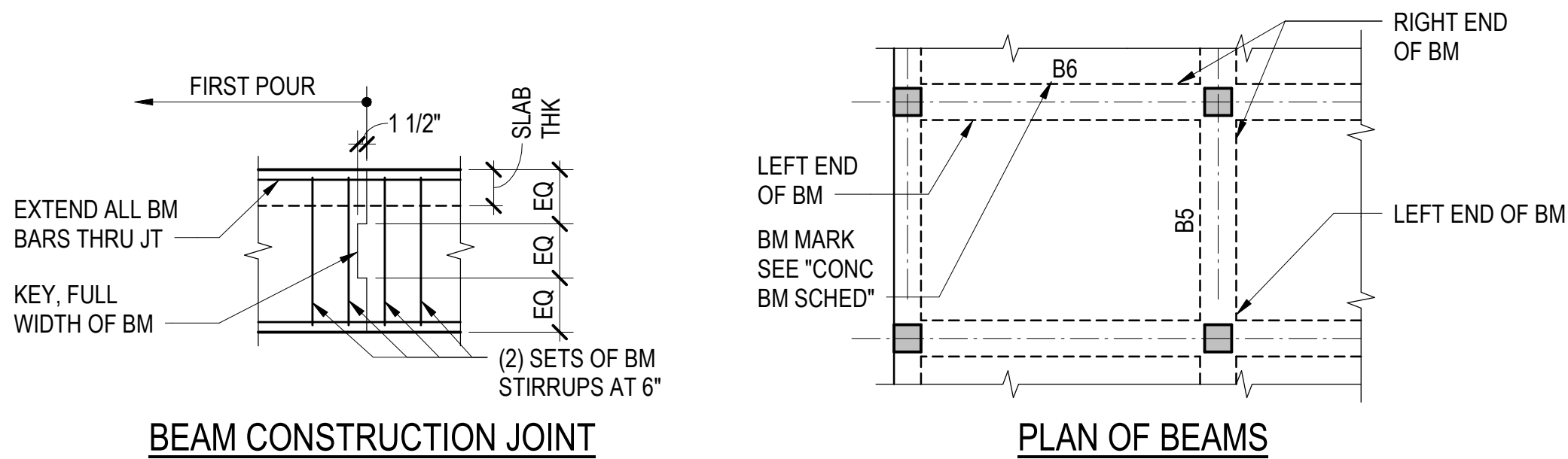




1 ECCENTRIC BEAM AT COLUMN



NOTES:

- AT CONTRACTOR'S OPTION, WHERE REQUIRED TO RELIEVE BAR CONGESTION, NOT MORE THAN 50 PERCENT OF THE AREA OF THE STRAIGHT BOTTOM BARS MAY BE TERMINATED AS SHOWN UNLESS NOTED OTHERWISE.
- BEAM SCHEDULES DO NOT INDICATE REQUIREMENTS FOR ARRANGING BARS. THE CONTRACTOR SHALL DETAIL AND PLACE REINFORCING STEEL IN A SINGLE LAYER WHENEVER POSSIBLE. A SECOND LAYER MAY BE USED ONLY WHERE REQUIRED TO PROVIDE PROPER CLEARANCES BETWEEN BARS IN A LAYER AND WHERE REQUIRED IN ORDER TO PROPERLY CLEAR COLUMN VERTICALS AND SIMILAR REINFORCING.
- EITHER 90 OR 180 DEGREE STANDARD HOOK BARS MAY BE USED FOR LONGITUDINAL BARS.
- WHERE TOP BARS ARE INDICATED AS CONTINUOUS AND RUN OVER 60 FEET IN LENGTH, BARS MAY BE LAPPED L_d IN THE MIDDLE THIRD OF THE BEAM SPAN UNLESS NOTED OTHERWISE. CONTINUOUS TOP BARS SHALL NOT BE LAPPED IN THE SPAN ADJACENT TO A CANTILEVER, UNLESS NOTED OTHERWISE. WHERE BOTTOM BARS ARE SHOWN AS CONTINUOUS AND RUN IN EXCESS OF 60 FEET, A LAP SPlice MAY BE USED EQUAL TO L_{sb} AND SHALL BE OUTSIDE THE MIDDLE THIRD OF THE BEAM SPAN. SIDE BAR SPLICES MAY BE MADE WHERE CONVENIENT.
- LOCATE ALL CONSTRUCTION JOINTS WITHIN THE MIDDLE THIRD OF SPAN. JOINTS SHALL BE OFFSET AT A MINIMUM DISTANCE OF TWO TIMES THE WIDTH OF INTERSECTING BEAMS. SUBMIT LOCATION OF ALL CONSTRUCTION JOINTS TO ENGINEER FOR REVIEW AND ACCEPTANCE BEFORE FORMING.
- ALL BARS IN SAME LAYER UNLESS NOTED OTHERWISE.

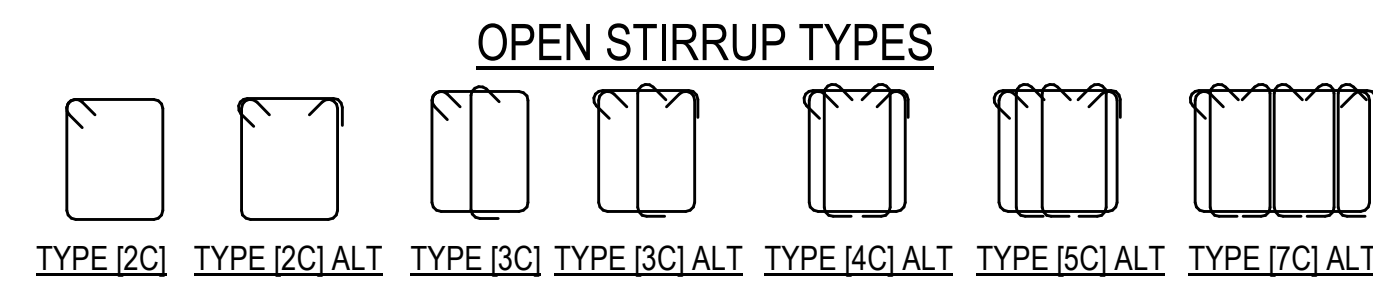
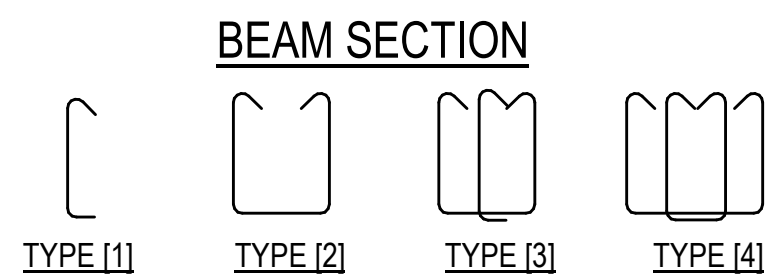
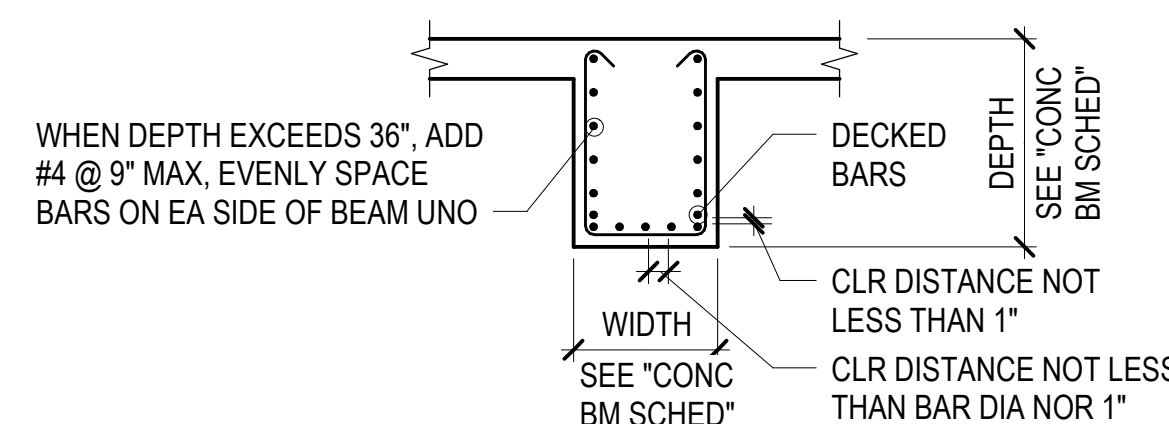
3 TYPICAL CONCRETE BEAM NOTES

CONCRETE BEAM SCHEDULE										
MARK	SIZE (WIDTHxDEPTH)	CAMBER	BOTTOM BARS	TOP BARS			STIRRUPS			REMARKS
				LEFT	CONTINUOUS	RIGHT	LEFT	CONTINUOUS	RIGHT	
B1	12"x18"		(2) #7	(2) #7	(2) #7	(2) #7	#4 @ 6" [2C]			SEE 1/S4.03
B2	24"x24"		(3) #8		(7) #8		#5 @ 9" [2C]			SEE 1/S4.03
B3	24"x24"		(4) #8	(4) #8	(3) #8	(4) #8	#5 @ 9" [2C]			SEE SECTION PER PLAN FOR DEPTH-SEE 1/S4.03
B5	24"x22" MIN		(3) #8		(9) #9		#5 @ 9" [2C]			SEE SECTION PER PLAN FOR DEPTH-SEE 1/S4.03
B6	24"x26 1/2"		(3) #8	(5) #9	(4) #9	(5) #9	#5 @ 9" [2C]			SEE 1/S4.03
B7	24"x24"		(3) #8		(10) #9		#5 @ 9" [3C]			SEE 1/S4.03
B8	24"x24"		(8) #10	(5) #10	(5) #10	(5) #10	#6 @ 5" [3C]			ADD (2) #4 SIDE BAR EA SIDE; SEE 1/S4.03
B9	30"x24"		(4) #7		(7) #9		#5 @ 9" [3C]			ADD (3) #4 SIDE BAR EA SIDE; SEE 1/S4.03
B10	30"x24"		(4) #7		(7) #9		#5 @ 9" [3C]			ADD (2) #4 SIDE BAR EA SIDE - SEE SECTION PER PLAN FOR DEPTH; SEE 1/S4.03
B12	30"x22" MIN		(4) #7		(9) #10		#5 @ 9" [3C]			ADD (2) #4 SIDE BAR EA SIDE - SEE SECTION PER PLAN FOR DEPTH; SEE 1/S4.03
B13	30"x26 1/2"		(5) #7		(10) #10		#5 @ 9" [3C]			ADD (3) #5 SIDE BAR EA SIDE; SEE 1/S4.03
B16	30"x24"		(4) #7		(9) #8		#4 @ 9" [4C]			ADD (2) #4 SIDE BAR EA SIDE; SEE 1/S4.03
B17	30"x24"		(4) #7		(9) #8		#4 @ 9" [4C]			ADD (2) #4 SIDE BAR EA SIDE - SEE SECTION PER PLAN FOR DEPTH; SEE 1/S4.03
B21	30"x22" MIN		(4) #7		(10) #10		#6 @ 6" [3C]			ADD (2) #4 SIDE BAR EA SIDE - SEE SECTION PER PLAN FOR DEPTH; SEE 1/S4.03
B22	30"x26 1/2"		(6) #8		(10) #10		#6 @ 6" [3C]			ADD (2) #4 SIDE BAR EA SIDE - SEE SECTION PER PLAN FOR DEPTH; SEE 1/S4.03
B23	30"x26 1/2"		(4) #7		(8) #9		#5 @ 8" [3C]			ADD (2) #4 SIDE BAR EA SIDE - SEE SECTION PER PLAN FOR DEPTH; SEE 1/S4.03
B26	30"x30"		(3) #7	(4) #7			#5 @ 9" [3C]			SEE 1/S4.03
B27	30"x30"		(3) #7	(4) #7			#6 @ 6" [2C]			SEE 1/S4.03
B28	18"x24"		(3) #7	(3) #7			#5 @ 5" [2C]			SEE 1/S4.03
B29	30"x24"		(4) #7		(6) #8		#5 @ 9" [2C]			SEE 1/S4.03
B30	30"x24"		(4) #7		(9) #8		#5 @ 10" [2C]			SEE 1/S4.03
B33	24"x32"		(4) #8	(3) #7			#5 @ 14" [2C]			SEE 1/S4.03
B34	24"x24"		(4) #8	(4) #8			#5 @ 10" [2C]			SEE 1/S4.03
B35	24"x24"		(5) #8				#5 @ 10" [2C]			SEE 1/S4.03
B37	18"x32"		(3) #7	(3) #7			#5 @ 5" [2C]			
B38	24"x32"		(4) #7	(4) #8			#5 @ 14" [2C]			
B39	24"x32"		(4) #8	(4) #8			#5 @ 9" [3C]			
B40	24"x32"		(6) #9	(4) #8			#5 @ 9" [3C]			
B41	34"x30"		(6) #8	(6) #8			#5 @ 9" [3C]			
B42	32"x32"		(4) #9				#4 @ 14" [4C]			
B44	24"x48"		(3) #7	(3) #7			#4 @ 14" [3C]			
B45	24"x48"		(3) #8	(3) #8			#4 @ 14" [3C]			
B46	24"x32"		(3) #8	(3) #8			#4 @ 14" [3C]			
B47	24"x32"		(3) #9	(5) #9			#4 @ 14" [3C]			
B48	24"x50"		(3) #9	(3) #9			#4 @ 14" [3C]			
B49	24"x32"		(3) #9	(3) #9			#4 @ 14" [3C]			
B50	12"x39"		(3) #7	(3) #7			#4 @ 14" [3C]			
B51	18"x32"		(4) #8	(4) #8			#4 @ 10 [4C]			
B52	32"x72"		(14) #11	(4) #10	(3) #10	(3) #10	#5 @ 6" [4C]			
B53	18"x36"		(4) #8	(2) #8	(3) #8	(2) #8	#5 @ 12" [2C]			
B54	24"x32"		(3) #7		(3) #7		#4 @ 14" [3C]			
B56	18"x38"		(3) #9		(3) #9		#4 @ 14" [3C]			
B57	24"x33"		(3) #9		(3) #9		#4 @ 14" [3C]			
B58	30"x36"		(4) #9	(3) #7	(4) #9	(3) #7	(13) #5 @ 6" [4C]	#5 @ 14" [4C]	(13) #5 @ 6" [3C]	
B59	24"x62"		(4) #9		(4) #9		#4 @ 12" [4C]			
B61	24"x39"		(6) #10		(6) #8		#4 @ 14" [4C]			
B62	24"x74"		(3) #8		(3) #8		#4 @ 14" [3C]			
B63	24"x72"		(5) #11		(5) #11		#4 @ 14" [3C]			
B64	32"x72"		(8) #11		(8) #11		#5 @ 8" [4C]			
B65	24"x60"		(6) #11		(6) #9		#5 @ 14" [4C]			
B66	24"x74"		(5) #11		(5) #11		#4 @ 14" [3C]			
B67	24"x26"		(3) #8		(3) #8		#4 @ 14" [3C]			
B68	24"x61"		(4) #9		(4) #9		#4 @ 14" [4C]			
B69	30 1/2"x48"		(4) #11		(4) #11		#4 @ 14" [4C]			
B71	40"x42"		(11) #18	(6) #11	(6) #11	(6) #11	#6 @ 4" [4C]			
B72	60"x42"		(14) #11		(8) #9		#5 @ 6" [7C]			
B73	38 1/2"x24"		(3) #7		(3) #8		#5 @ 6" [2C]			SEE DETAIL 18/S5.05
B74	24"x67"		(5) #9		(5) #9		#5 @ 9" [3C]			
B75	36"x30"		(5) #8		(6) #10		#6 @ 6" [5C]			SEE 1/S4.03
B76	24"x29" MIN		(4) #9		(4) #8		#5 @ 9" [3C]			25" MINIMUM DEPTH; BOTTOM OF BEAM FLAT AT ELEVATION 8373'-9"; TOP OF BEAM STEPS WITH SLAB
B77	72"x18"		(6) #6		(2) #6		#5 @ 18" [2]			REINF SIM TO 18/S4.05. SEE PLAN FOR ADDED TOP BAR AT END
B78	32"x20"		(4) #9		(5) #9		#5 @ 6" [3C]			
B79	12" MIN x 33"		(3) #9		(3) #9		#5 @ 6" [2C]			CLOSED STIRRUPS ARE TO BE CONTINUOUS, NO CAP/TIE PER [2C ALT] ALLOWED. SEE DETAIL 08/S5.02
B80	24"x44"		(4) #9		(4) #9		#5 @ 12" [3C]			

NOTES:

- SEE "TYPICAL CONCRETE BEAM" DETAIL.
- [] DENOTES TYPE OF REINFORCING CONFIGURATION. SEE "TYPICAL CONCRETE BEAM SECTION AND STIRRUPS" DETAIL FOR STIRRUP TYPE.

13 CONCRETE BEAM SCHEDULE

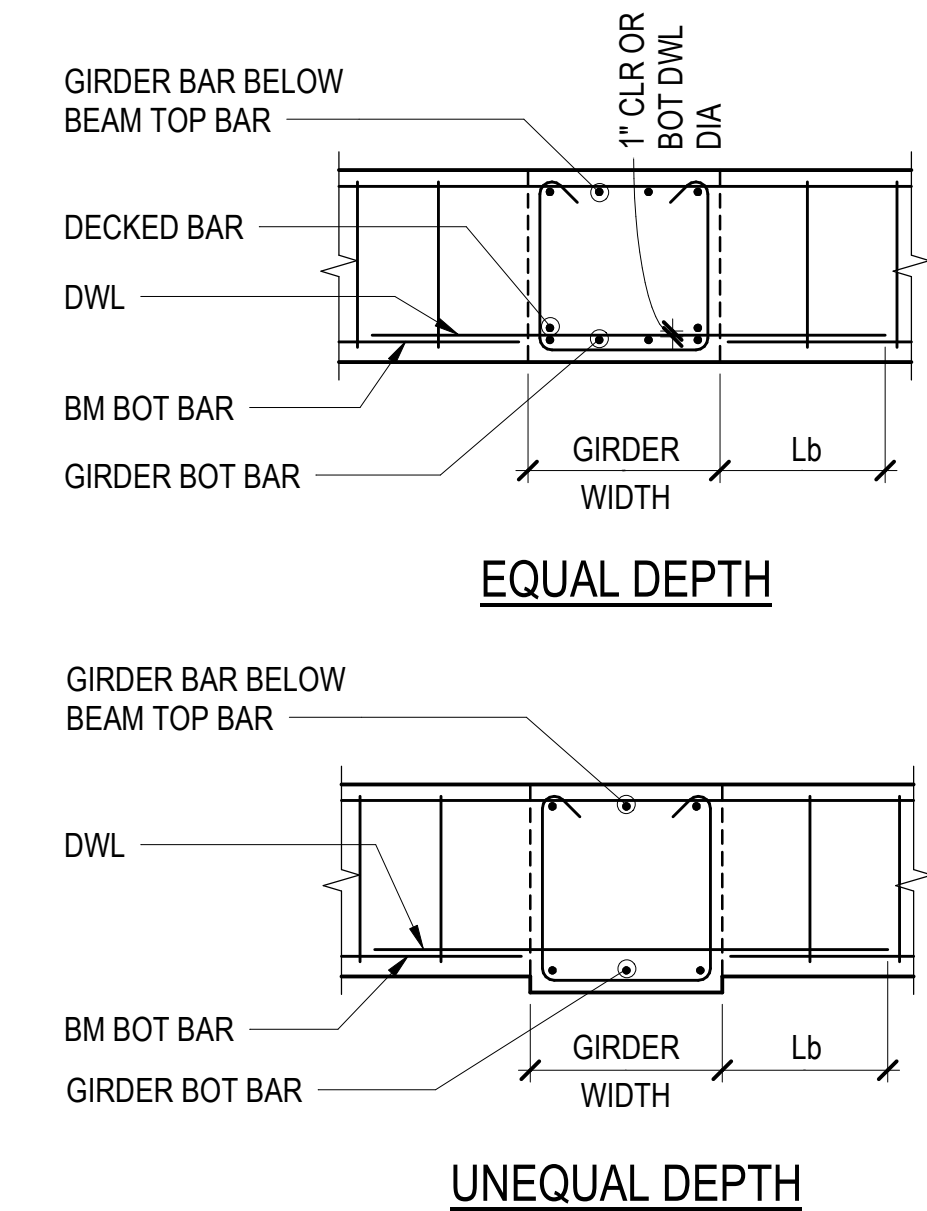
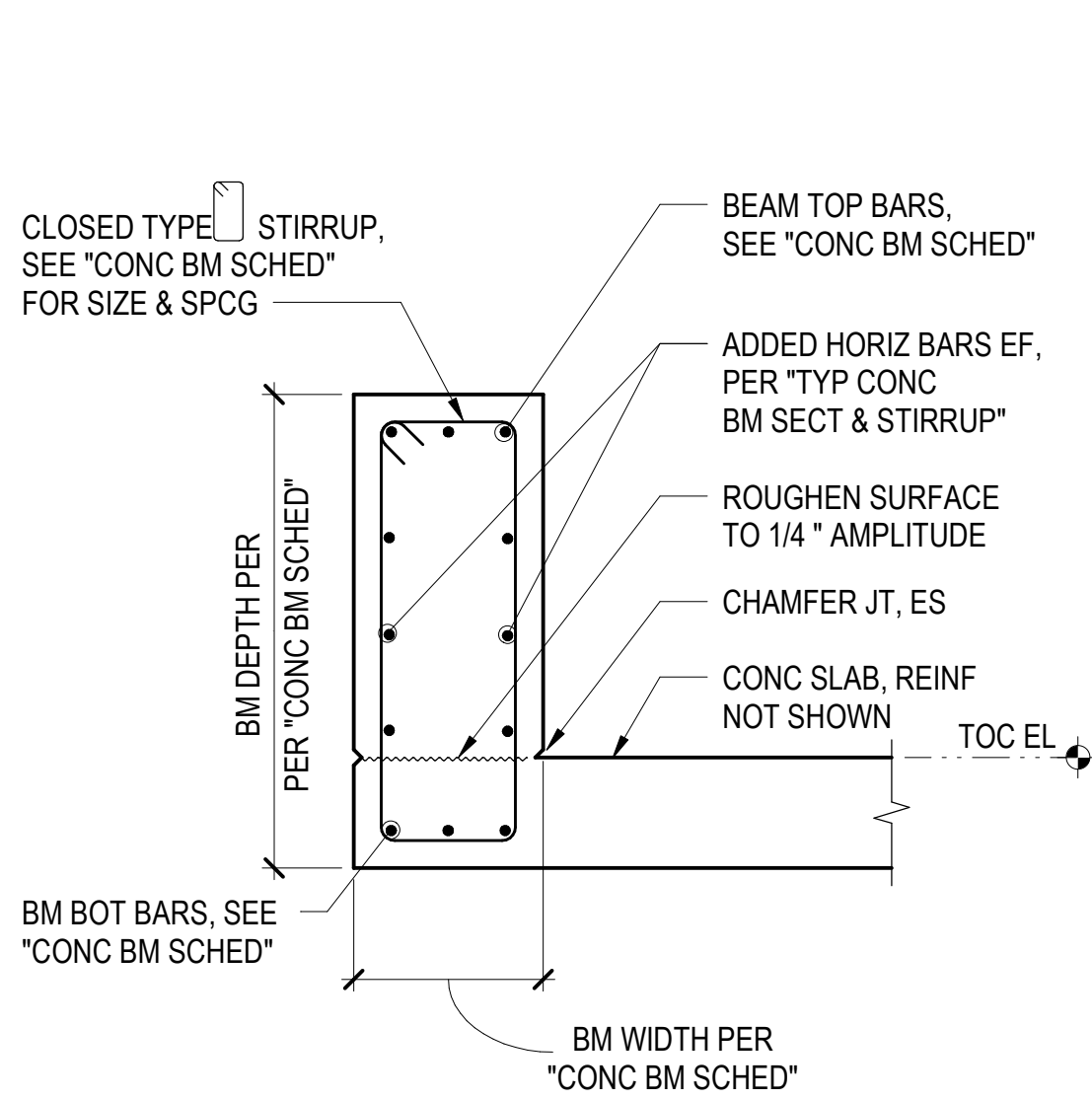


NOTES:

- [] DENOTES TYPE OF STIRRUP REINFORCING CONFIGURATION. SEE "CONCRETE BEAM SCHEDULE."

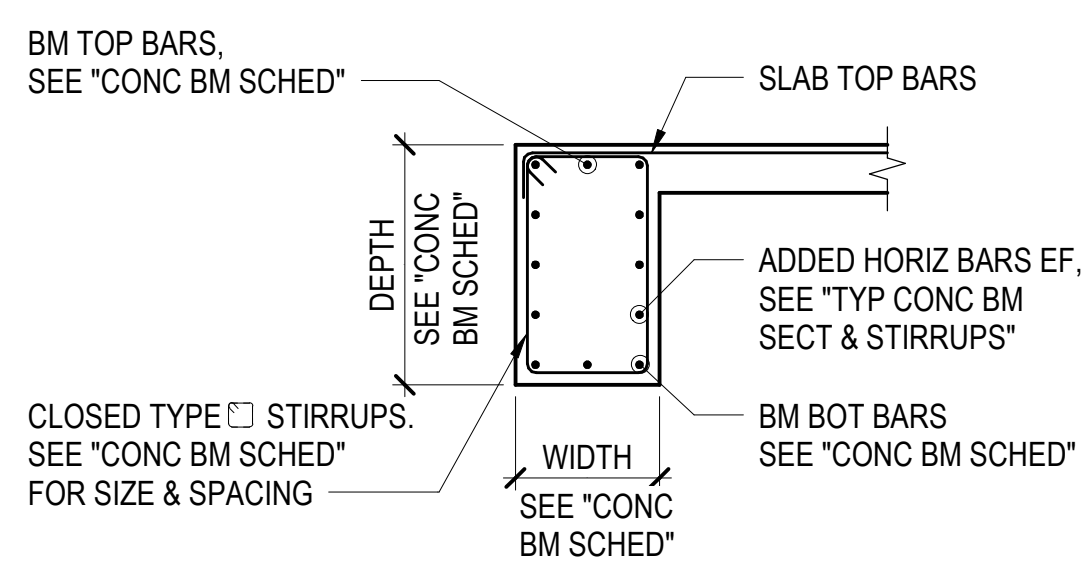
19 TYP CONC BEAM SECTION AND STIRRUPS

11 TYPICAL CONCRETE BEAM

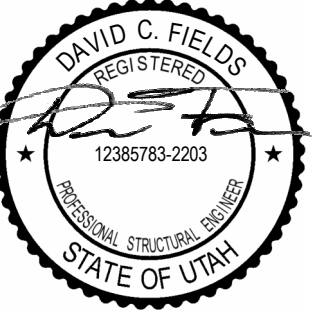


17 TYP CONC BM AND GIRDER INTERSECTION

ALTERNATE



19 TYP CONC BEAM SECTION AND STIRRUPS



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6 01/17/2025 ASI-006.1
3 8/19/2024 ASI-004
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04/08/2024 IFC SET 1 OF 3
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IFC SET 2 OF 3

05/17/2024

TYPICAL CONCRETE BEAM
DETAILS AND
SCHEDULE

S4.03