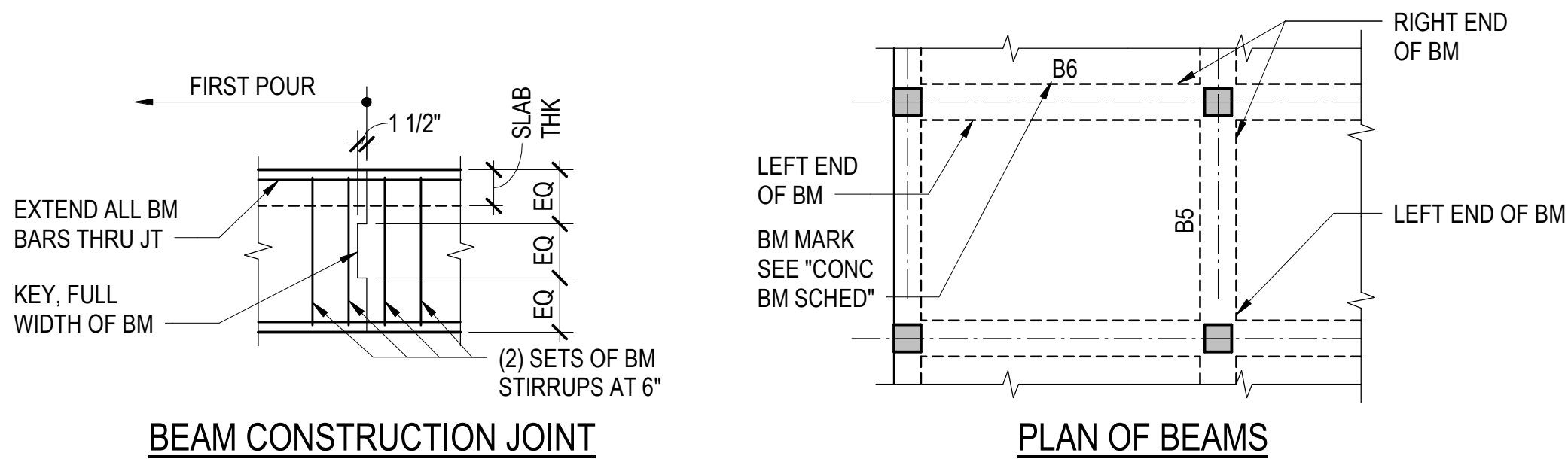
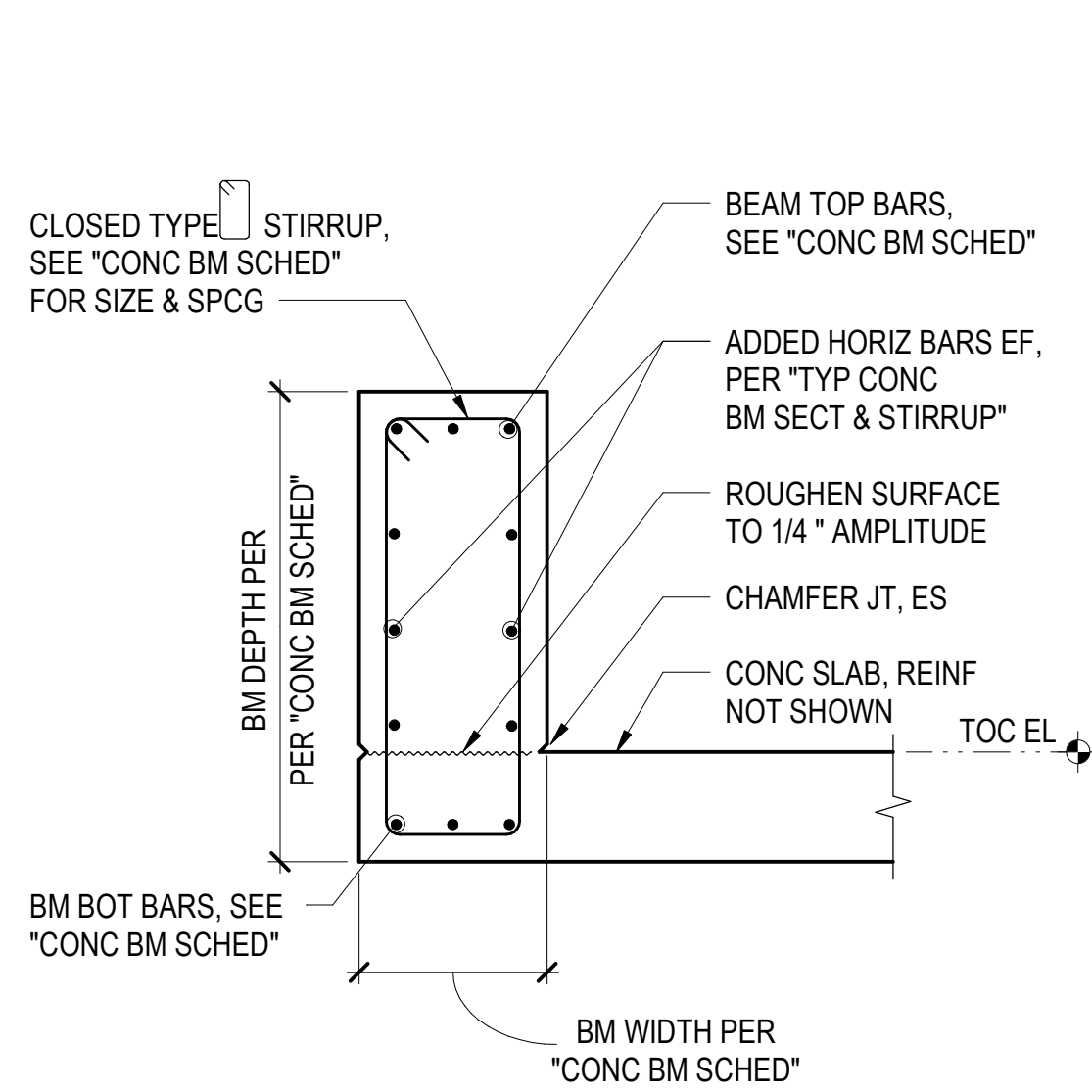


1 ECCENTRIC BEAM AT COLUMN

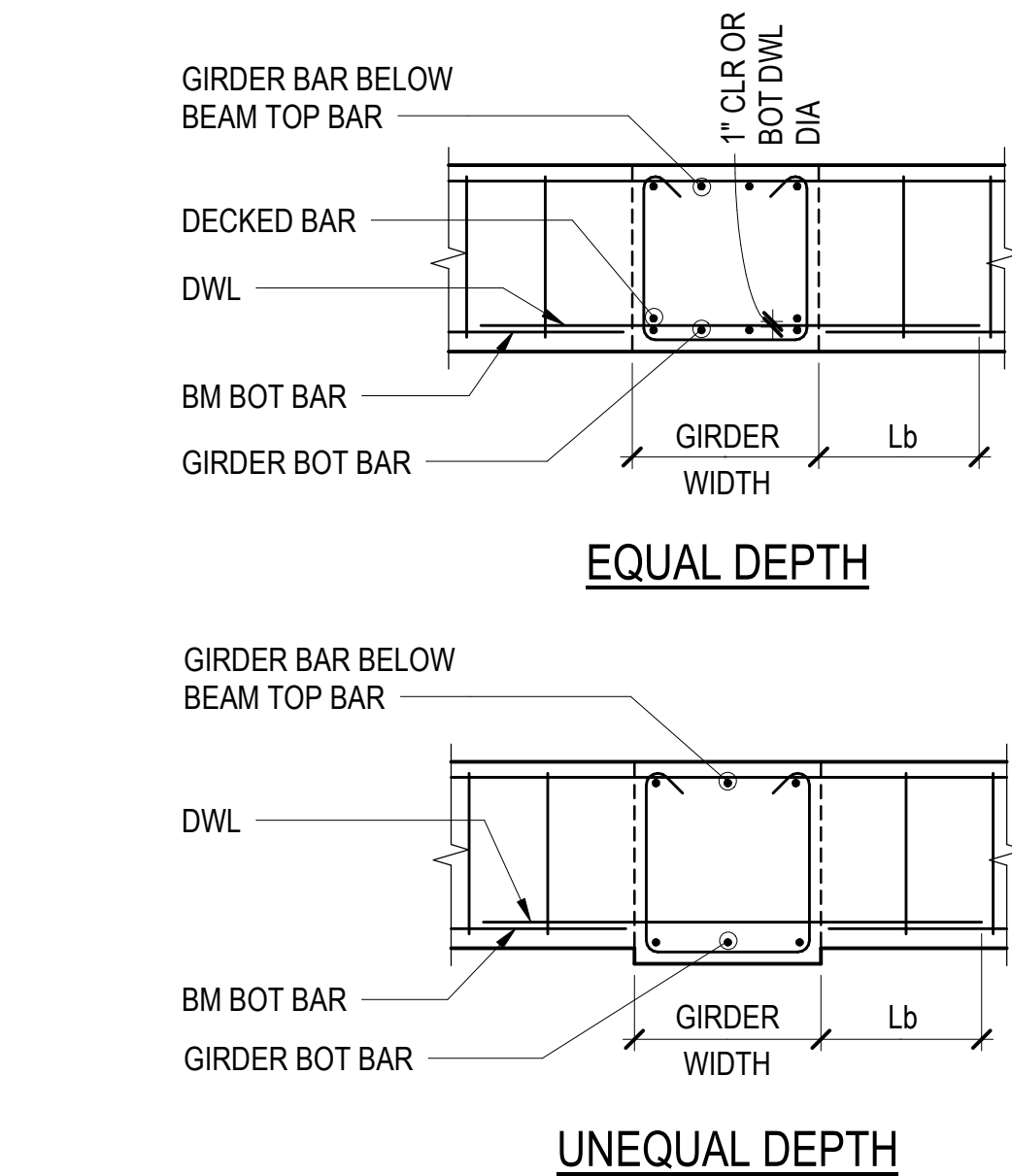


BEAM REINFORCING ELEVATION

11 TYPICAL CONCRETE BEAM



16 TYPICAL CONCRETE UPTURNED BEAM



17 TYP CONC BM AND GIRDER INTERSECTION

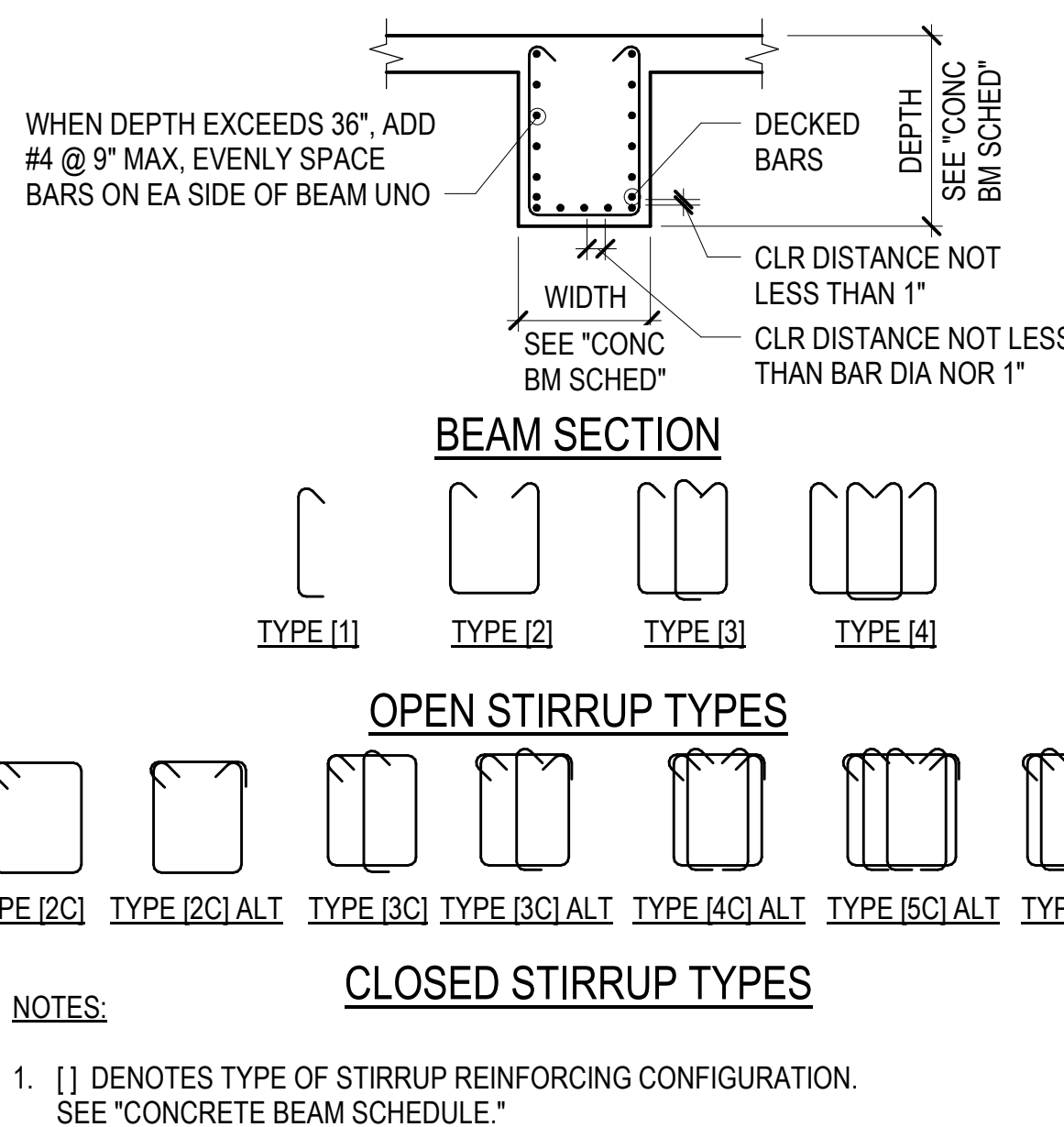
- NOTES:
- AT CONTRACTOR'S OPTION, WHERE REQUIRED TO RELIEVE BAR CONGESTION, NOT MORE THAN 50 PERCENT OF THE AREA OF THE STRAIGHT BOTTOM BARS MAY BE TERMINATED AS SHOWN UNLESS NOTED OTHERWISE.
 - BEAM SCHEDULES DO NOT INDICATE REQUIREMENTS FOR ARRANGING BARS. THE CONTRACTOR SHALL DETAIL AND PLACE REINFORCING 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

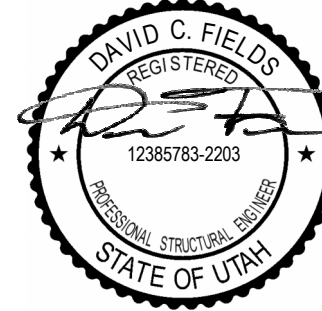
CONCRETE BEAM SCHEDULE									
MARK	SIZE (WIDTHxDEPTH)	CAMBER	BOTTOM BARS	TOP BARS			STIRRUPS		REMARKS
				LEFT	CONTINUOUS	RIGHT	LEFT	RIGHT	
B1	12"x18"		(2) #7	(2) #7	(2) #7	(2) #7	#4 @ 6" [2C]		SEE 1/S4.03
B2	24"x24"		(3) #8	(7) #8	(7) #8	(7) #8	#5 @ 9" [2C]		SEE 1/S4.03
B3	24"x24"		(4) #8	(4) #8	(3) #8	(4) #8	#5 @ 9" [2C]		SEE SECTION PER PLAN FOR DEPTH-SEE 1/S4.03
B5	24"x22" MIN		(3) #8	(9) #9	(9) #9	(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	(10) #9	(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	(7) #9	(7) #9	#5 @ 9" [3C]		ADD (3) #4 SIDE BAR EA SIDE; SEE 1/S4.03
B10	30"x24"		(4) #7	(7) #9	(7) #9	(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	(9) #10	(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	(10) #10	(10) #10	#5 @ 9" [3C]		ADD (3) #5 SIDE BAR EA SIDE; SEE 1/S4.03
B16	30"x24"		(4) #7	(6) #8	(6) #8	(6) #8	#4 @ 9" [4C]		ADD (2) #4 SIDE BAR EA SIDE; SEE 1/S4.03
B17	30"x24"		(4) #7	(9) #8	(9) #8	(9) #8	#6 @ 6" [3C]		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	(10) #10	(10) #10	#5 @ 9" [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	(10) #10	(10) #10	#5 @ 9" [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	(8) #9	(8) #9	#5 @ 9" [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	(4) #7	(4) #7	#5 @ 9" [3C]		SEE 1/S4.03
B27	30"x30"		(3) #7	(4) #7	(4) #7	(4) #7	#5 @ 9" [3C]		SEE 1/S4.03
B28	18"x24"		(3) #7	(3) #7	(3) #7	(3) #7	#5 @ 5" [2C]		SEE 1/S4.03
B29	30"x24"		(4) #7	(6) #8	(6) #8	(6) #8	#5 @ 9" [2C]		SEE 1/S4.03
B30	30"x24"		(4) #7	(9) #8	(9) #8	(9) #8	#5 @ 10" [2C]		SEE 1/S4.03
B33	24"x32"		(4) #8	(3) #7	(3) #7	(3) #7	#5 @ 14" [2C]		SEE 1/S4.03
B34	24"x24"		(4) #8	(4) #8	(4) #8	(4) #8	#5 @ 10" [2C]		SEE 1/S4.03
B35	24"x24"		(5) #8	(5) #8	(5) #8	(5) #8	#5 @ 10" [2C]		SEE 1/S4.03
B37	18"x32"		(3) #7	(3) #7	(3) #7	(3) #7	#5 @ 5" [2C]		
B38	24"x32"		(4) #7	(4) #8	(4) #8	(4) #8	#5 @ 14" [2C]		
B39	24"x32"		(4) #8	(4) #8	(4) #8	(4) #8	#5 @ 9" [3C]		
B40	24"x32"		(6) #9	(4) #8	(4) #8	(4) #8	#5 @ 9" [3C]		
B41	34"x30"		(6) #8	(6) #8	(6) #8	(6) #8	#5 @ 9" [3C]		
B42	32"x32"		(4) #9	(4) #9	(4) #9	(4) #9	#4 @ 14" [4C]		
B44	24"x48"		(3) #7	(3) #7	(3) #7	(3) #7	#4 @ 14" [3C]		
B45	24"x48"		(3) #8	(3) #8	(3) #8	(3) #8	#4 @ 14" [3C]		
B46	24"x32"		(3) #8	(3) #8	(3) #8	(3) #8	#4 @ 14" [3C]		
B47	24"x32"		(3) #9	(5) #9	(5) #9	(5) #9	#4 @ 14" [3C]		
B48	24"x50"		(3) #9	(3) #9	(3) #9	(3) #9	#4 @ 14" [3C]		
B49	24"x32"		(3) #9	(3) #9	(3) #9	(3) #9	#4 @ 14" [3C]		
B50	12"x39"		(3) #7	(3) #7	(3) #7	(3) #7	#4 @ 14" [3C]		
B51	18"x32"		(4) #8	(4) #8	(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	(3) #7	(3) #7	#4 @ 14" [3C]		
B56	18"x38"		(3) #9	(3) #9	(3) #9	(3) #9	#4 @ 14" [3C]		
B57	24"x33"		(3) #9	(3) #9	(3) #9	(3) #9	#4 @ 14" [3C]		
B58	30"x36"		(4) #9	(3) #7	(4) #9	(3) #7	(13) #5 @ 6" [4C]	(13) #5 @ 6" [3C]	
B59	24"x62"		(4) #9	(4) #9	(4) #9	(4) #9	#4 @ 12" [4C]		
B61	24"x39"		(6) #10	(6) #8	(6) #8	(6) #8	#4 @ 14" [4C]		
B62	24"x74"		(3) #8	(3) #8	(3) #8	(3) #8	#4 @ 14" [3C]		
B63	24"x72"		(5) #11	(5) #11	(5) #11	(5) #11	#4 @ 14" [3C]		
B64	32"x72"		(8) #11	(8) #11	(8) #11	(8) #11	#5 @ 8" [4C]		
B65	24"x60"		(6) #11	(6) #9	(6) #9	(6) #9	#5 @ 14" [4C]		
B66	24"x74"		(5) #11	(5) #11	(5) #11	(5) #11	#4 @ 14" [3C]		
B67	24"x26"		(3) #8	(3) #8	(3) #8	(3) #8	#4 @ 14" [3C]		
B68	24"x61"		(4) #9	(4) #9	(4) #9	(4) #9	#4 @ 14" [4C]		
B69	30 1/2"x48"		(4) #11	(4) #11	(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	(8) #9	(8) #9	#5 @ 6" [7C]		
B73	38 1/2"x24"		(3) #7	(3) #8	(3) #8	(3) #8	#5 @ 6" [2C]		SEE DETAIL 18/S5.05
B74	24"x67"		(5) #9	(5) #9	(5) #9	(5) #9	#5 @ 9" [3C]		
B75	36"x30"		(5) #8	(6) #10	(6) #10	(6) #10	#6 @ 6" [5C]		SEE 1/S4.03
B76	24"x29" MIN		(4) #9	(4) #8	(4) #8	(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	(2) #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) #9	(5) #9	#5 @ 6" [3C]		
B79	12" MIN x 33"		(3) #9	(3) #9	(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	(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



19 TYP CONC BEAM SECTION AND STIRRUPS



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date 05/17/2024

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2 7/26/2024 ASI-002

1 09/11/2024 IFC-2

04/08/2024 IFC SET 1 OF 3

11/18/2022 95% CD

no. date by

IFC SET 2 OF 3

05/17/2024

TYPICAL
CONCRETE BEAM
DETAILS AND
SCHEDULE

S4.03