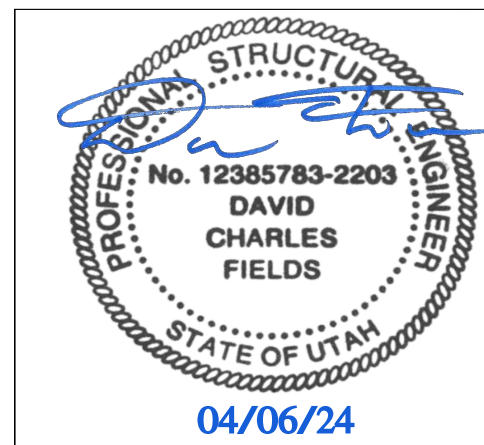




Reserved for permit stamp

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principal architect _____
project manager _____
drawn by _____
checked by _____
job no. 20052
date 04/08/2024

revisions:

2. 04/08/2024 IFC SET 1 OF 3
1. 11/18/2022 95% CD
no. date by

ISSUED FOR CONSTRUCTION
SET 1 OF 3
04/08/2024

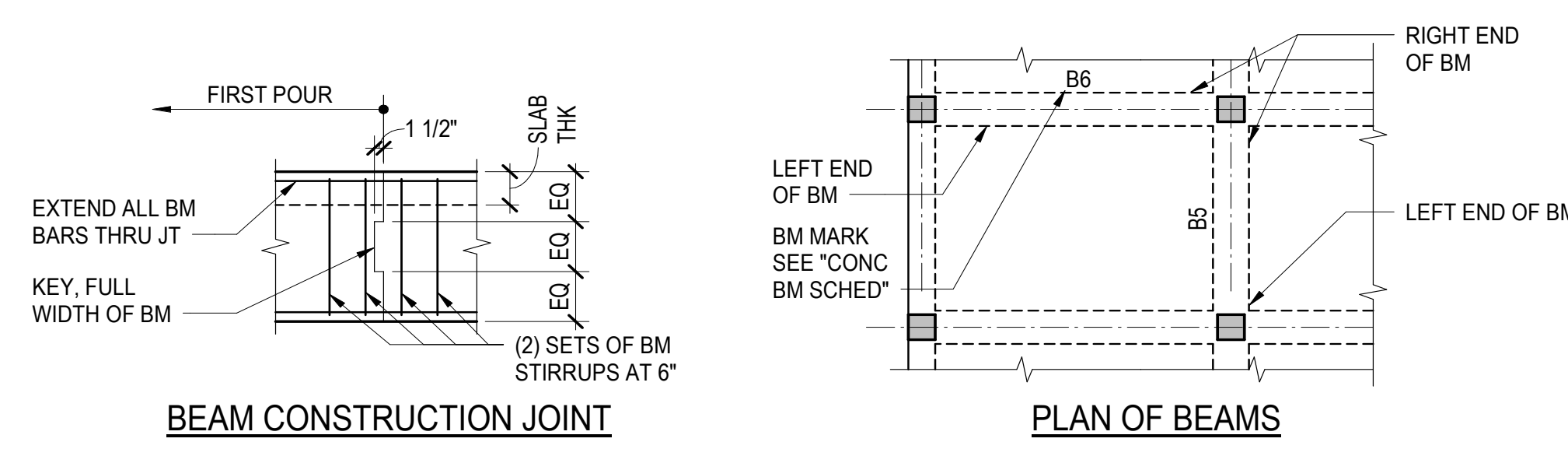
TYPICAL CONCRETE BEAM DETAILS AND SCHEDULE

S4.03

NOTES:

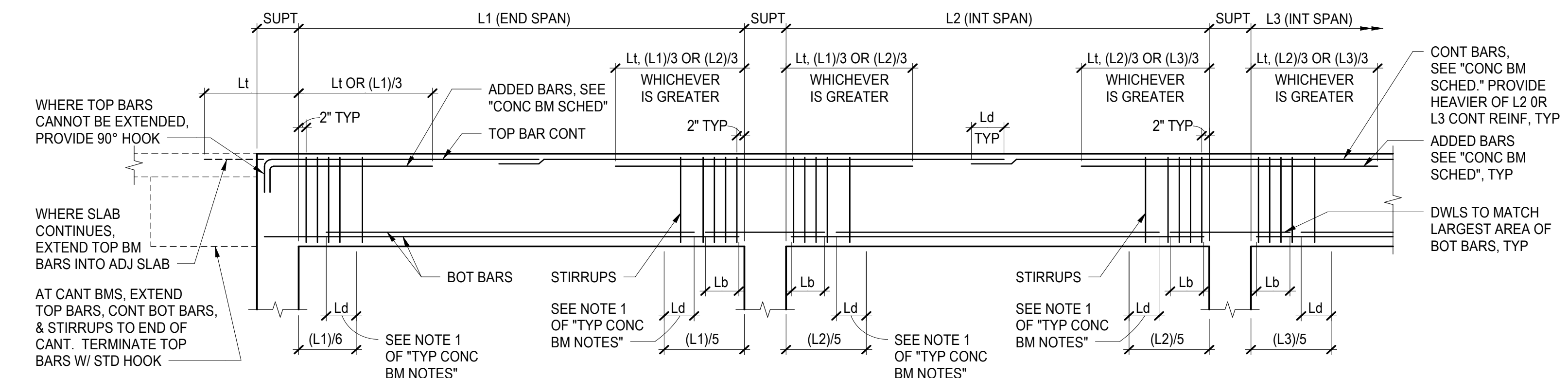
- AT CONTRACTOR'S OPTION, WHERE REQUIRED TO RELIEVE BAR CONGESTION, NOT MORE THAN 50 PERCENT OF THE AREA OF THE STRAIGHT BOTTOM BARS MAY BE TERMINATED AS SHOWN UNLESS NOTED OTHERWISE.
- BEAM SCHEDULES DO NOT INDICATE REQUIREMENTS FOR ARRANGING BARS. THE CONTRACTOR SHALL DETAIL AND PLACE REINFORCING STEEL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



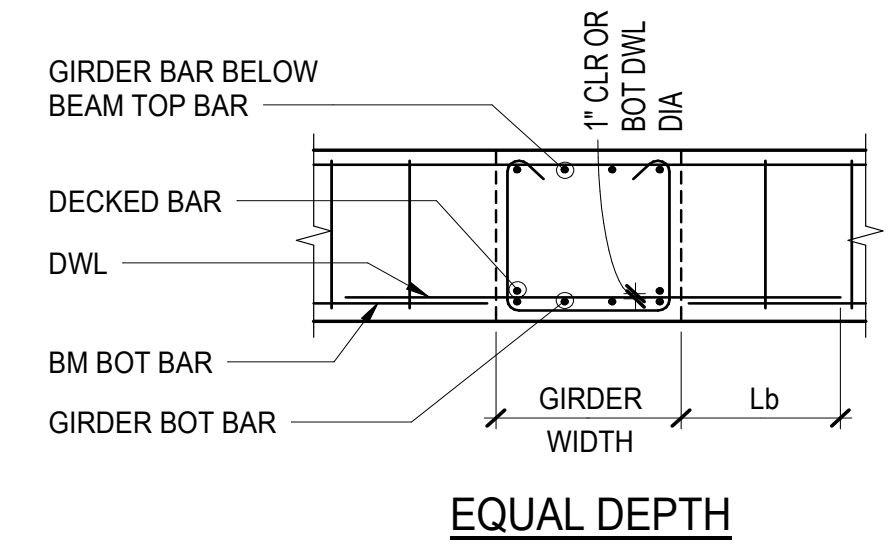
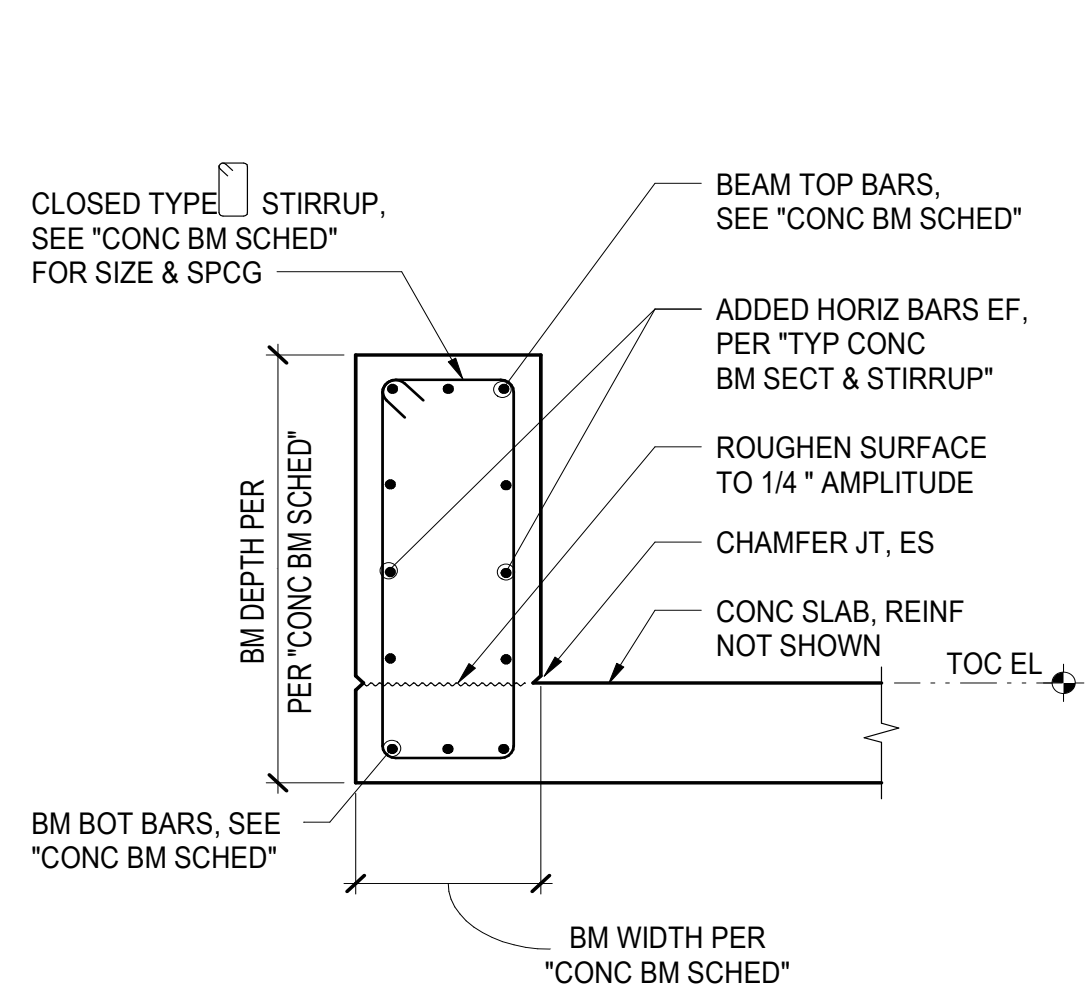
BEAM CONSTRUCTION JOINT

PLAN OF BEAMS



BEAM REINFORCING ELEVATION

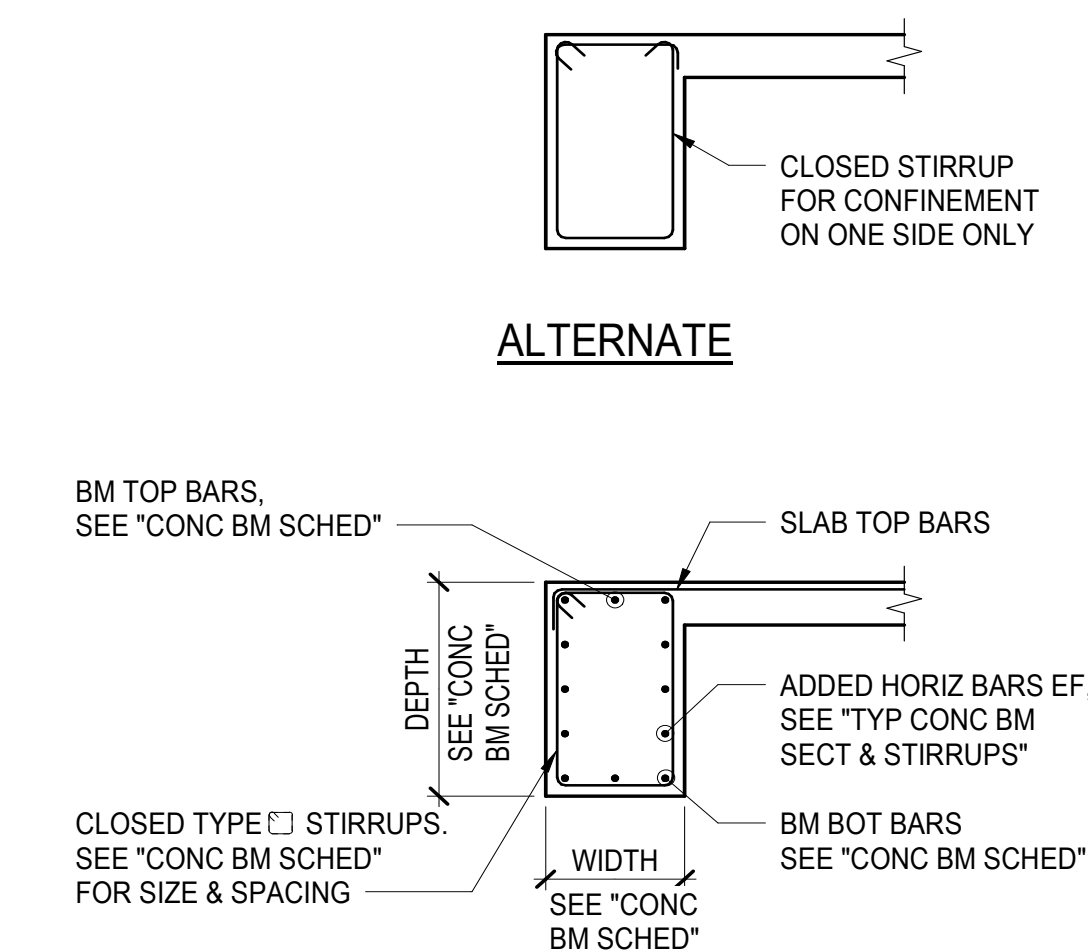
11 TYPICAL CONCRETE BEAM



EQUAL DEPTH

UNEQUAL DEPTH

17 TYP CONC BM AND GIRDER INTERSECTION



ALTERNATE

18 TYPICAL CONCRETE EDGE BEAM

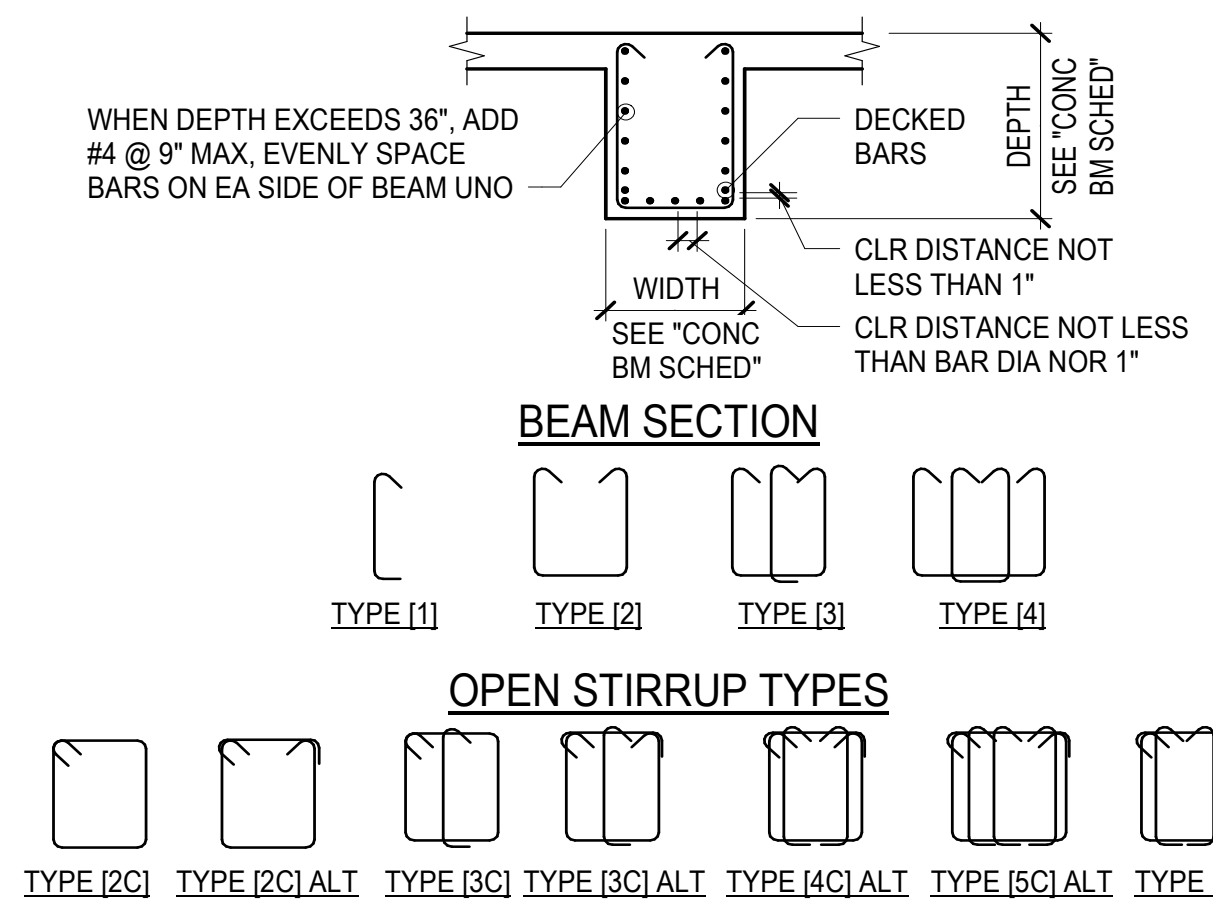
16 TYPICAL CONCRETE UPTURNED BEAM

CONCRETE BEAM SCHEDULE									
MARK	SIZE (WIDTHxDEPTH)	CAMBER	BOTTOM BARS	LEFT	TOP BARS CONTINUOUS	RIGHT	LEFT	STIRRUPS CONTINUOUS	RIGHT
B1	12"x18"		(2) #7	(2) #7	(2) #7	(2) #7		#4 @ 6" [2C]	
B2	24"x24"		(3) #8		(7) #8			#5 @ 9" [2C]	
B3	24"x24"		(4) #8	(4) #8	(3) #8	(4) #8		#5 @ 9" [2C]	
B5	24"x22" MIN				(9) #9			#5 @ 9" [2C]	SEE SECTION PER PLAN FOR DEPTH
B6	24"x26 1/2"		(3) #8	(5) #9	(4) #9	(5) #9		#5 @ 9" [2C]	SEE SECTION PER PLAN FOR DEPTH
B7	24"x24"		(3) #8		(10) #9			#5 @ 9" [3C]	
B8	24"x24"		(8) #10	(5) #10	(5) #10	(5) #10		#6 @ 5" [3C]	
B9	30"x24"		(4) #7		(7) #9			#5 @ 9" [3C]	ADD (2) #4 SIDE BAR EA SIDE
B10	30"x24"		(4) #7		(9) #10			#5 @ 9" [3C]	ADD (3) #4 SIDE BAR EA SIDE
B12	30"x22" MIN		(4) #7		(9) #10			#5 @ 9" [3C]	ADD (2) #4 SIDE BAR EA SIDE - SEE SECTION PER PLAN FOR DEPTH
B13	30"x26 1/2"		(5) #7		(10) #10			#5 @ 9" [3C]	ADD (2) #4 SIDE BAR EA SIDE - SEE SECTION PER PLAN FOR DEPTH
B16	30"x24"		(4) #7		(6) #8			#5 @ 6" [3C]	ADD (3) #5 SIDE BAR EA SIDE
B17	30"x24"		(4) #7		(9) #8			#4 @ 9" [4C]	ADD (3) #4 SIDE BAR EA SIDE
B21	30"x22" MIN		(4) #7		(10) #10			#6 @ 6" [3C]	ADD (2) #4 SIDE BAR EA SIDE - SEE SECTION PER PLAN FOR DEPTH
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
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
B26	30"x30"		(3) #7		(4) #7			#5 @ 9" [3C]	ADD (2) #4 SIDE BAR EA SIDE - SEE SECTION PER PLAN FOR DEPTH
B27	30"x30"		(3) #7		(4) #7			#6 @ 6" [2C]	
B28	18"x24"		(3) #7		(3) #7			#5 @ 5" [2C]	
B29	30"x24"		(4) #7		(6) #8			#5 @ 9" [2C]	
B30	30"x24"		(4) #7		(9) #8			#5 @ 10" [2C]	
B33	24"x32"		(4) #8		(3) #7			#5 @ 14" [2C]	
B34	24"x24"		(4) #8		(4) #8			#5 @ 10" [2C]	
B35	24"x24"		(5) #8		(5) #8			#5 @ 10" [2C]	
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) #9		(6) #8			#5 @ 14" [4C]	
B42	32"x32"		(4) #9		(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) #8		(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	(3) #10	(4) #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"x37"		(3) #9		(3) #9			#4 @ 14" [3C]	
B57	24"x32"		(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"x62"		(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"								SEE DETAIL 18/S5.05
B74	24"x67"								
B75	36"x30"		(5) #8		(6) #10			#6 @ 6" [5C]	
B76	24"x25" 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

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