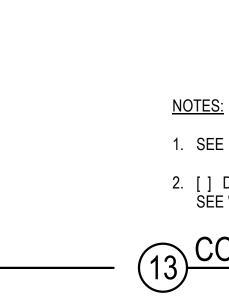


NOTES:

- 1. 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.
- 3. EITHER 90 OR 180 DEGREE STANDARD HOOK BARS MAY BE USED FOR LONGITUDINAL BARS.
- 4. WHERE TOP BARS ARE INDICATED AS CONTINUOUS AND RUN OVER 60 FEET IN LENGTH, BARS MAY BE LAPPED Ld 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 Lsb AND SHALL BE OUTSIDE THE MIDDLE THIRD OF THE BEAM SPAN SIDE BAR SPLICES MAY BE MADE WHERE CONVENIENT.
- 5. 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.
- 6. ALL BARS IN SAME LAYER UNLESS NOTED OTHERWISE.

TYPICAL CONCRETE BEAM NOTES

BEAM REINFORCING ELEVATION



| | | CONCRETE BEAM SCHEDULE | | | | | | | | |
|------------|------------------------|------------------------|----------------------|---------|-------------------|---------|-------------------|--------------------------------|-----------------------------------|--|
| MARK | SIZE (WIDTHxDEPTH) | CAMBER | BOTTOM BARS | LEFT | TOP BARS | RIGHT | LEFT | STIRRUPS CONTINUOUS | RIGHT | REMARKS |
| B1 | 12"x18" | | (2) #7 | (2) #7 | (2) #7 | (2) #7 | | #4 @ 6" [2C] | ^ | |
| 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 1/S4.03 |
| B5 | 24"x22" MIN | | (3) #8 | (5) #0 | (9) #9 | (5) #0 | | #5 @ 9" [2C] | | SEE SECTION PER PLAN FOR DEPTH;SEE 1/S4.03 |
| B6 B7 | 24"x26 1/2" 24"x24" | | (3) #8 (3) #8 | (5) #9 | (4) #9 (10) #9 | (5) #9 | | #5 @ 9" [2C] #5 @ 9" [3C] | | SEE SECTION PER PLAN FOR DEPTH;SEE 1/S4.03 SEE 1/S4.03 |
| B8 | 24 x24 24"x24" | | (3) #8 | (5) #10 | (10) #9 | (5) #10 | | #5 @ 9 [3C] #6 @ 5" [3C] | | SEE 1/S4.03 |
| B9 | 30"x24" | | (4) #7 | | (7) #9 | (0) #10 | | #5 @ 9" [3C] | | ADD (2) #4 SIDE BAR EA SIDE; SEE 1/S4.03 |
| B10 | 30"x24" | | (4) #7 | | (7) #9 | | | #5 @ 9" [3C] | | ADD (3) #4 SIDE BAR EA SIDE;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 SEE 1/S4.03 |
| B13 | 30"x26 1/2" | | (5) #7 | | (10) #10 | | | #5 @ 9" [3C] | | ADD (2) #4 SIDE BAR EA SIDE - SEE SECTION PER PLAN FOR SEE 1/S4.03 |
| B16 | 30"x24" | | (4) #7 | | (6) #8 | | | #5 @ 6" [3C] | | ADD (3) #5 SIDE BAR EA SIDE; SEE 1/S4.03 |
| B17 | 30"x24" | | (4) #7 | | (9) #8 | | | #4 @ 9" [4C] | } | ADD (3) #4 SIDE BAR EA SIDE; 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 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 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 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] | | |
| 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] | | |
| B34 | 24"x24" | | (4) #8 | | (4) #8 | | | #5 @ 10" [2C] | | SEE 1/S4.03 |
| B35 B37 | 24"x24" 18"x32" | | (5) #8 (3) #7 | | (5) #8 (3) #7 | | | #5 @ 10" [2C] #5 @ 5" [2C] | ````````````````````````````````` | SEE 1/S4.03 |
| 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) #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 B48 | 24"x32" 24"x50" | | (3) #9 (3) #8 | | (5) #9 (3) #9 | | | #4 @ 14" [3C] #4 @ 14" [3C] | | |
| B40 B49 | 24"x30" | | (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"x38" ² | <u> </u> | (3) #9 | | (3) #9 | | | #4 @ 14" [3C] | | |
| B57 | 24"x33" | | (3) #9 | (2) #7 | (3) #9 | (2) #7 | | #4 @ 14" [3C] | | |
| B58 B59 | | | (4) #9 (4) #9 | (3) #7 | (4) #9 (4) #9 | (3) #7 | (13) #5 @ 6" [4C] | #5@ 14" [4C] #4 @ 12" [4C] | (13) #5 @ 6" [3C] | |
| B55 B61 | 24"x39" | | (4) #9 | | (4) #9 | | | #4 @ 12 [4C] #4 @ 14" [4C] | | |
| B62 | 24"x74" | | (3) #8 | | (3) #8 | | | #4 @ 14" [4C] #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 B71 | 30 1/2"x48" 40"x42" | | (4) #11 | (6) #11 | (4) #11 | (6) #11 | | #4 @ 14" [4C] #6 @ 4" [4C] | | |
| B71 B72 | 40"x42" 60"x42" | | (11) #18 (14) #11 | (6) #11 | (6) #11 | (6) #11 | | #6 @ 4" [4C] #5 @ 6" [7C] | | |
| B72 | 38 1/2"x24" | | (14) #11 | | (3) #8 | | | |)/2 | SEE DETAIL 18/S5.05 |
| B74 | 24"x67" | | (5)#1 (5)#9 | | (5) #9 | λλ | | #5 @ 9" [3C] | <u>x</u> | |
| B75 | 36"x30" | | (5) #8 | | (6) #10 | | | #6 @ 6" [5C] | | SEE 1/S4.03 |
| B76 | 24"x25" MIN | | (4) #9 | | (4) #8 | | | #5 @ 9" [3C] | | 25" MINIMUM DEPTH; BOTTOM OF BEAM FLAT AT ELEVATION TOP OF BEAM STEPS WITH SLAB |
| B77 | 72"x18" 32"x20"/ | | (6) #6 (4) #9 | | (2) #6 (5) #9 | | | #5 @ 18" [2] #5 @ 6" [3C] | \ | REINF SIM TO 18/S4.05. SEE PLAN FOR ADDED TOP BAR AT E |

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

1. SEE "TYPICAL CONCRETE BEAM" DETAIL.

