



**ROOF FRAMING PLAN - PART 1**

SCALE: 1/8" = 1'-0"

**ROOF FRAMING PLAN NOTES:**

1. DENOTES 22 GAUGE 1 1/2" WIDE RIB STEEL ROOF DECK. MINIMUM DECK PROPERTIES:  
 $b = 0.155 \text{ IN}^4/\text{FT}$   
 $I = 0.103 \text{ IN}^4/\text{FT}$   
 $S_x = 0.186 \text{ IN}^3/\text{FT}$   
 $S_y = 0.192 \text{ IN}^3/\text{FT}$
2. DENOTES 22 GAUGE 2" DEEP ACCOUNTANT TYPE ROOF DECK (BASE DESIGN IS VERTICAL SHEAR). MINIMUM DECK PROPERTIES:  
 $b = 0.409 \text{ IN}^4/\text{FT}$   
 $I = 0.357 \text{ IN}^4/\text{FT}$   
 $S_x = 0.336 \text{ IN}^3/\text{FT}$   
 $S_y = 0.336 \text{ IN}^3/\text{FT}$
3. DENOTES 16 GAUGE 2" DEEP STEEL ROOF DECK WITH POLYSTYRENE FILL (SEE ARCH FOR EXTENTS OF FILL). MINIMUM DECK PROPERTIES:  
 $b = 1.683 \text{ IN}^4/\text{FT}$   
 $I = 1.807 \text{ IN}^4/\text{FT}$   
 $S_x = 0.893 \text{ IN}^3/\text{FT}$   
 $S_y = 0.944 \text{ IN}^3/\text{FT}$
4. DENOTES 16 GAUGE 3" DEEP STEEL ROOF DECK. MINIMUM DECK PROPERTIES:  
 $b = 1.683 \text{ IN}^4/\text{FT}$   
 $I = 1.807 \text{ IN}^4/\text{FT}$   
 $S_x = 0.893 \text{ IN}^3/\text{FT}$   
 $S_y = 0.944 \text{ IN}^3/\text{FT}$
5. PROVIDE STANDARD HORIZONTAL BRIDGING PER SJI.
6. WATER PIPING SUPPORT SCHEDULED ON SHEET S-0-02 FOR ALL PIPING SUPPORTED FROM ROOF STRUCTURE. NOTIFY EOR IF PIPING WEIGHT IS IN EXCESS OF THOSE NOTED IN SCHEDULE.
7. DO NOT SUPPORT MULTIPLE SPRINKLER MAINS FROM THE SAME JOIST. CONTRACTOR TO PROVIDE SPRINKLER DRAWINGS TO STRUCTURAL ENGINEER AND JOIST MANUFACTURER FOR REVIEW AND COORDINATION PRIOR TO JOIST FABRICATION.
8. MAX DEPTH OF PONDING AT LOWEST POINT OF ROOF SHALL NOT EXCEED 4" UNDER PEAK INTENSITY STORM.
9. "CB" DENOTES 4" x 4" LG MINI COL BRACE L4x4x3/8 @ JOIST SPA LESS THAN 6'-0". L5x5x3/8 @ JOISTS SPA GREATER THAN 6'-0". WELD BRACE TO COL CAP PL & TOP CHORD OF JOIST OR TOP FLANGE OF BEAM W/ 3/16" FILLET WELD x 2" LG USE (2) - ANGLES @ T-SHAPED AREAS, WELD DECK TO EA ANGLE W/ 3/4" PUDDLE WELDS @ 90° LOCATE @ ALL COL'S W/ FRAMING CONN IN ONLY (1) - DIRECTION.
10. "SW" DENOTES SHEAR WALL (SEE S-3-31).
11. "M UN" AT END OF BEAMS DENOTE MINIMUM UNFACTORED (ASD) REACTIONS FOR CONNECTION DESIGN. IF REACTION IS NOT SHOWN, DESIGN FOR 20K.
12. DENOTES MOMENT CONNECTION. FABRICATOR SHALL SUBMIT MOMENT CONNECTION CALCULATIONS, SHIMMED & SEALED BY A LICENSED DESIGN PROFESSIONAL WITH SHOP DRAWINGS. CONNECTIONS SHALL BE DESIGNED FOR FORCES INDICATED ON PLAN AND IN ELEVATIONS. (SEE NOTE 10). (SEE REFERENCE DETAILS 7/5-5.11 & 8/5-5.11 & 8/5-4.11). IF MOMENT NOT SHOWN ON PLANS, DESIGN FOR LOADS LISTED BELOW:  
MOMENT: 20 K-FT  
SHEAR: 20K
13. SLOTTED HOLES @ BEAM END CONNECTIONS ARE NOT ALLOWED FOR BEAMS ASSOCIATED W/ A BRACE OF MOMENT FRAME, OR NOTED WITH A REQUIRED AXIAL CONNECTION FORCE, UNLESS NOTED OTHERWISE.
14. FOR BRACINGS @ TOP OF INT CMU PARTITION WALLS ON ELEV SLAB SEE DETAILS 4/5-5.12 & 5/5-5.12 & 1/5-5.13. INT CMU PARTITIONS ON ELEV SLABS SHALL BE REIN W/ #5 @ 40" (TYP UNO). ELEV DOWELS SHALL BE DRILLED & EPOXYED 3" INTO ELEVATED SLAB.
15. "BB" DENOTES BEAM BOTTOM FLANGE BRACE (SEE 6/5-5.11. SPACE EQUALY ALONG BEAM BETWEEN COLS (UNO)).
16. SEE 1/5-5.11 FOR TYP ROOF OPNG DECK SUPPORT FRAMING. SUPPORT FRAMING, FINAL ROOF OPNG DIMENSIONS AND LOCATIONS SHALL BE VERIFIED BY GC AND COORDINATED W/ THE FINAL RTU SUBMITTAL.
17. SEE 4/5-5.11 FOR TYP JOIST CHORD SUPPORT.
18. SEE 1/5-5.12 FOR TYP EQUIPMENT CURB SUPPORT FRAMING. RTU WEIGHTS AS SHOWN ON PLAN INCLUDE CURB WEIGHTS. ALL FINAL RTU WEIGHTS SHALL BE CONFIRMED W/ ACTUAL EQUIPMENT PROVIDED AND COORDINATED W/ STEEL JOIST AND STEEL FRAMING SUBMITTALS.
19. (S) - DENOTES SLOPING ROOF BEAM. T(STEEL) - DECK BRG (TYP UNO).
20. T# - DENOTES STEEL TRUSS MARK (SEE ELEVATIONS ON S-6.11).
21. (B) - DENOTES BENT BEAM.
22. POINT LOADS DUE TO BASKETBALL GOALS SHALL BE VERIFIED & COORDINATED W/ PES & JOIST MANUF. ONCE FINAL DESIGN IS RECEIVED PRIOR TO JOIST FABRICATION (TYP). BASKETBALL GOAL MANUF SHALL VERIFY & PROVIDE VERTICAL & HORIZONTAL LOADS FROM BASKETBALL GOAL DUE TO FOLDING OPERATION AND PLAYER USE. NOTE THAT POINT LOADS DUE TO BASKETBALL GOALS ARE BOTTOM CHORD. BASKETBALL POINT LOADS SHOWN ON PLAN SHALL BE APPLIED IN BOTH THE VERTICAL AND HORIZONTAL DIRECTION. IT IS RECOMMENDED FOR THE BASKETBALL GOAL CONNECTION TO BE MADE CONCENTRIC TO THE JOIST BOTTOM CHORD (CONNECTION BY BASKETBALL GOAL MANUF).
23. W6x15 JUNIOR BEAMS SHALL BE PROVIDED FOR ELECTRICAL HOIST SUPPORT FROM JOISTS. POINT LOADS FROM HOIST JUNIOR BEAMS SHALL BE APPLIED ON BOTTOM CHORD OF JOIST. POINT LOADS SHALL BE VERIFIED W/ FINAL EQUIP. SELECTED PRIOR TO JOIST FABRICATION (SEE ELECTRICAL FOR HOIST INFO) (TYP).
24. "CL" DENOTES 120# POINT LOAD DUE TO THEATER CURTAINS. POINT LOAD DUE TO THEATER CURTAINS SHALL BE APPLIED ON BOTTOM CHORD OF JOIST. POINT LOADS SHALL BE VERIFIED W/ PRECAST MANUFACTURER PRIOR TO SUBMITTING SHOP DRAWINGS TO ARCHITECT FOR REVIEW.



CHAPMAN GRIFFIN LANIER SUSSEN BACH ARCHITECTS  
 RELEASED FOR CONSTRUCTION

PES STRUCTURAL ENGINEERS  
 PROFESSIONAL ENGINEER  
 LICENSE NO. 10002  
 11/01/2018



DATE	NO.	DESCRIPTION
06/16/18	1	ISSUE FOR CONSTRUCTION
06/17/18	2	ISSUE FOR CONSTRUCTION
10/16/18	3	ISSUE FOR CONSTRUCTION
11/01/18	4	ISSUE FOR CONSTRUCTION

CHAPMAN GRIFFIN LANIER SUSSEN BACH ARCHITECTS  
 2500 Cumberland Pkwy, Suite 350, Atlanta, Ga 30339, Phone: 404.733.5493  
 RIVERWOOD HIGH SCHOOL - PHASE 3 - AUDITORIUM/GYMNASIUM ADDITION  
 5900 RAIDER DRIVE NW SANDY SPRINGS, GA 30328  
 FULTON COUNTY SCHOOLS RFP NO. XXX-XX

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