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Issues and Revisions

Date	Issued / Revised
3/16/2020	50% CONSTRUCTION DOCS
5/18/2020	80% CONSTRUCTION DOCS
7/13/2020	PERMIT SUBMISSION

BUILDING ADDRESSES

Type	Address
TYPE G-2	442, 444, 446, 448 RATLIFF LANE 324, 236, 238, 330 SHAWEL PLACE
TYPE A-1	378, 448 VANCE AVE 346, 364 FOOT LANE 388 S DANNY THOMAS BLVD
TYPE A-2	368, 481 VANCE AVE 378 SHAWEL PLACE
TYPE A-3	321 SHAWEL PLACE 400, 380 FOOT LANE 345 S DANNY THOMAS BLVD
TYPE A-4	402, 406 FOOT LANE

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Seal



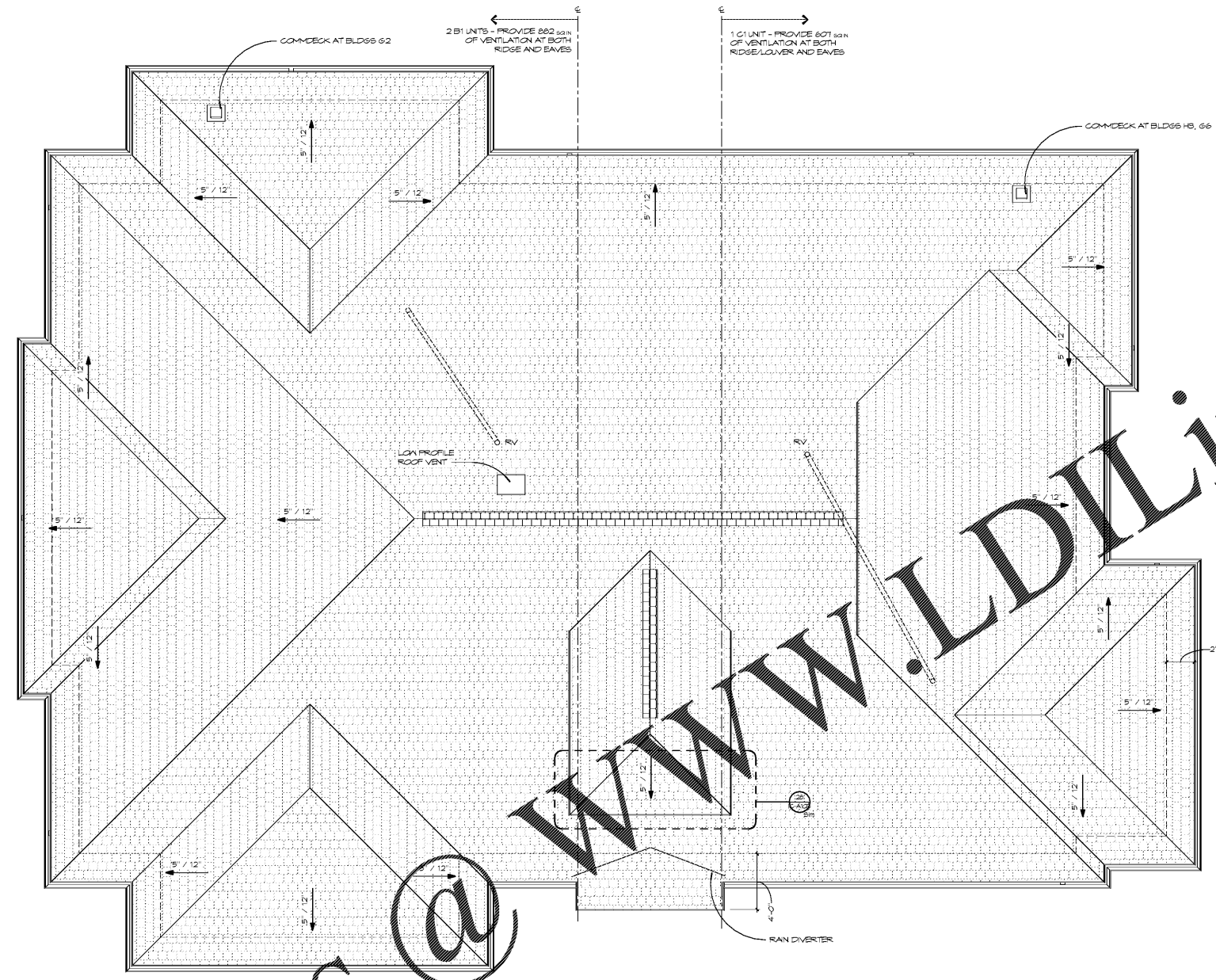
LRK Project Number: 01.15100.43

Project Name:
South City CNI Phase 4
Memphis TN

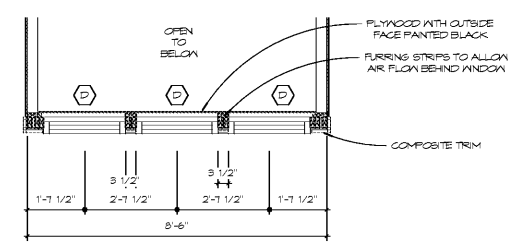
Drawing Name:
ROOF PLAN

Drawn By: ADB
Checked By: HJU

IC-A103



20 IC ROOF PLAN
SCALE 1/4" = 1'-0"



28 IC-DORMER PLAN
SCALE 1/2" = 1'-0"

GENERAL, GUTTER AND DOWNSPOUT CALCULATIONS

RAINFALL INTENSITY FOR MEMPHIS, TN: 1.4 IN/HR
GUTTER TYPE: 5" K-STYLE, PROVIDES 5,920 SF OF DRAINAGE AREA
 $5,920 / 7.4 = 799$ SF MAXIMUM OF ROOF AREA BETWEEN DOWNSPOUTS
DOWNSPOUT TYPE: 4" ROUND DOWNSPOUT
AREA OF CROSS SECTION $\times 100 =$ SF OF RAIN TO DRAIN IN DOWNSPOUT
 $12.56 \times 100 = 1,256$ SF

BUILDING I/C CALCULATIONS

ROOF SLOPE: 6/12 - REQUIRED 1:1 PITCH FACTOR
ROOF AREA: 5,028 SF
 $5,028 \times 1.1 = 5,530$ SF / 746 SF = 7.41
REQUIRED 8 DOWNSPOUTS

ROOF NOTES

- PROVIDE VENTILATION IN ROOF SHEATHING AT NOTED LOCATIONS PER RIDGE VENT DETAIL. WHERE RIDGE VENT IS INTERRUPTED BY FIRE RATED ROOF SHEATHING AT TOWERHOLES, INSTALL CONTINUOUS RIDGE VENT BUT DO NOT CUT ROOF DECK AT RIDGE VENT SHOULD APPEAR CONTIGUOUS.
- ALL ROOF VENTS TO OCCUR ON NON-STEEP FACING ROOF SLOPES, AND MUST BE BLACK ABS WITH BLACK NEOPRENE FLASHING BOOT.
- EXTERIOR WALL SHEATHING TO EXTEND TO UNDERSIDE OF ROOF DECK. PROVIDE OPENINGS TO ALLOW FOR ATTIC VENTILATION, SEE BELOW.
- PROVIDE ROCK-OUT FLASHINGS AT ALL WALL TO EAVE CONDITIONS. SEE ROOF DETAIL FOR FLASHING DIAGRAM.
- BOFFITS TO BE VENTILATED BEHIND VINYL AT ALL ROOF BOFFITS AND PORCH CEILING. SEE DETAILS AND SPEC.
- DORMER WINDOWS DESIGNED TO ALLOW AIR TO FLOW FROM ATTIC OUT THROUGH THE DORMER RIDGE VENT. DO NOT CONSTRUCT AS OVERBUILD ON ROOF SHEATHING. SEE ELEVATIONS FOR DORMER WINDOW TYPES AND LOCATIONS.
- THE END OF ANY RADON VENT STACK PIPE SHALL BE 10 FT OR MORE AWAY FROM ANY WINDOW, DOOR, OR OTHER OPENING INTO CONDITIONED OR OTHERWISE OCCUPYABLE SPACE.

PER IRC 1203 AND IRC 206:

ENCLOSED ATTICS SHALL HAVE VENTILATION FOR EACH SEPARATE SPACE BY OPENINGS PROTECTED AGAINST ENTRANCE OF RAIN AND SNOW. NET AREA SHALL BE NOT LESS THAN 1/150TH OF AREA OF SPACE VENTILATED.
CONTRACTOR TO VERIFY NET FREE AREA OF RIDGE VENT PROVIDES SPECIFIED VENTILATION AREA. BELOW, WHERE MULTIPLE UNITS ARE ENCLOSED IN A SINGLE ATTIC SPACE, ADD REQUIRED VENTILATION AREAS TOGETHER, WHERE LINEAR LENGTH OF RIDGE DOES NOT PROVIDE ADEQUATE VENTILATION AREA, PROVIDE LOW-PROFILE ROOF VENTS WITHIN 3' BELOW THE RIDGE OR HIGHEST POINT OF ROOF. ALL VENTS TO BE LOCATED ON NON-STEEP FACING SIDE OF ROOF.

UNIT/EAVE	MAX AREA	1:50	RIDGE VENT (BOFFIT) VENTILATION AREA (PROVIDE AT BOTH LOCATIONS)
A	108 SF	4.7 SF	2.98 SF/204 SQ IN
B	411 SF	6.1 SF	3.08 SF/441 SQ IN
C1	1268 SF	9.8 SF	4.22 SF/607 SQ IN
C2	850 SF	4.2 SF	2.10 SF/305 SQ IN
D1	286 SF	5.1 SF	2.89 SF/410 SQ IN

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