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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 G-2	442, 444, 446, 448 RATLIFF LANE
TYPE A-4	324, 236, 238, 330 SHAWNEE PLACE
TYPE A-4	378, 448 VANCE AVE
TYPE A-4	346, 348 FOOTER LANE
TYPE A-4	388 S DANNY THOMAS BLVD
TYPE A-4	368, 481 VANCE AVE
TYPE A-4	378 SHAWNEE PLACE
TYPE A-4	321 SHAWNEE PLACE
TYPE A-4	400, 300 FOOTER LANE
TYPE A-4	345 S DANNY THOMAS BLVD
TYPE A-4	402, 406 FOOTER LANE

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Seal



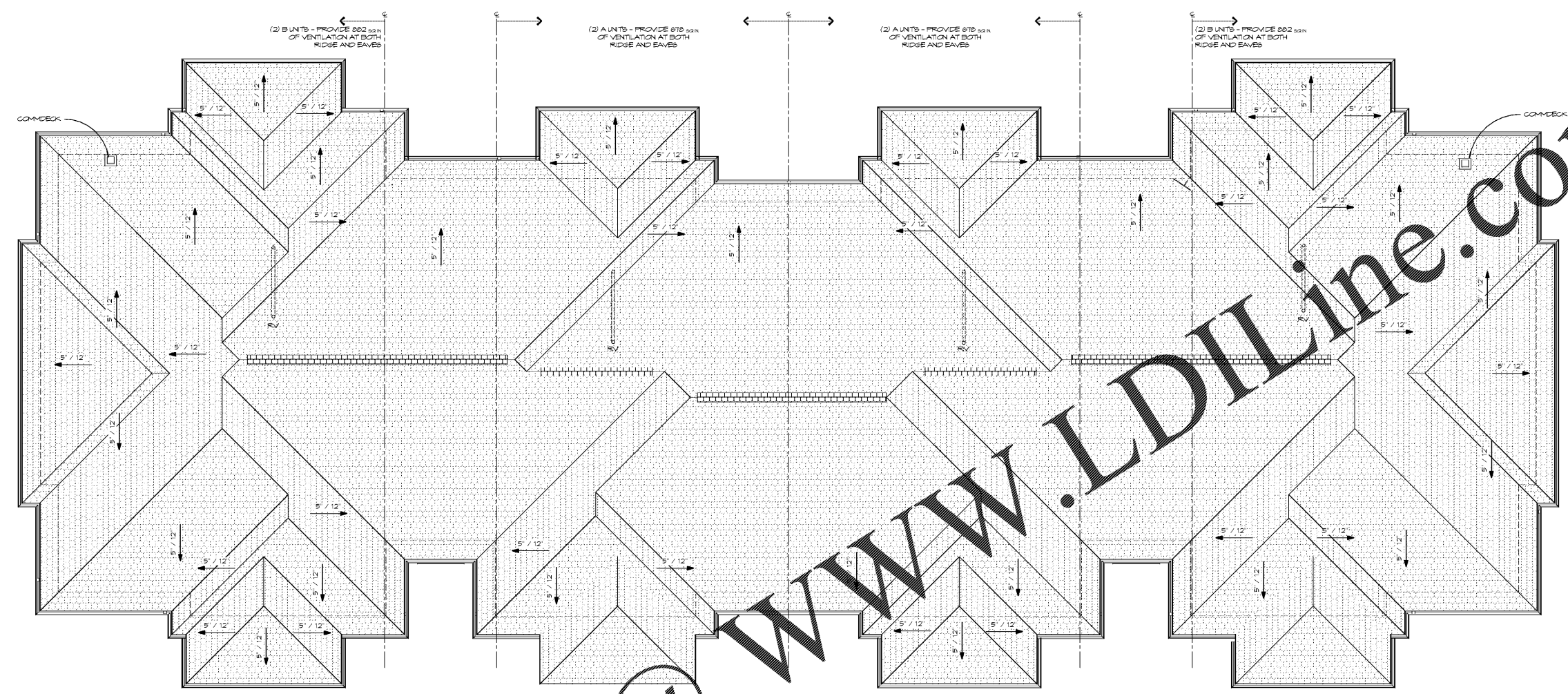
LRK Project Number: 01.15100.43

Project Name:
South City CNI Phase 4
Memphis TN

Drawing Name:
ROOF PLAN

Drawn By: ADB
Checked By: HJU

MA-A104



2'-0" ROOF EAVE, TYPICAL

19 MA ROOF PLAN
SCALE: 3/16" = 1'-0"

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GENERAL GUTTER AND DOWNSPOUT CALCULATIONS

RAINFALL INTENSITY FOR MEMPHIS: 3.14 IN/HR
GUTTER TYPE 6" K-88/16" PROVIDES 1480 SF OF DRAINAGE AREA
 $1480 / 3.14 = 1,029$ 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 AREA CALCULATIONS

ROOF SLOPE: 25:12 - REQUIRES 1.01 PITCH FACTOR
ROOF AREA: 1,148 SF
 $1,148 \times 1.01 = 1,159$ SF / 1,076 SF = 1.08
REQUIRES 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 TOP JOINTS, INSTALL CONTINUOUS RIDGE VENT BUT DO NOT CUT ROOF DECK AT RIDGE VENT. RIDGE VENT SHOULD APPEAR CONTINUOUS. SHINGLES TO BE INSTALLED WITH DOWN VALLEYS AND SELF-ADHERING ICE DAM EXTENDING 18" UP EACH SIDE OF VALLEY.
- REFER TO MEP DRAWINGS FOR LOCATION OF ROOF PENETRATIONS.
- ALL ROOF VENTS TO OCCUR ON NON-STREET FACING ROOF SLOPES, AND MUST BE BLACK ASB WITH BLACK NEOPRENE FLASHING BOOTS.
- EXTERIOR WALL SHEATHING TO EXTEND TO UNDERSIDE OF ROOF DECK. PROVIDE OPENINGS TO ALLOW FOR ATTIC VENTILATION. SEE BELOW.
- PROVIDE ROOF-CUT FLASHING AT ALL WALL TO SILE CONDITIONS. SEE ROOF DETAIL FOR FLASHING DIAGRAM.
- BOFFITS TO BE VENTILATED BEADED VINYL AT ALL ROOF BOFFITS AND PORCH CEILINGS. SEE DETAILS AND SPEC.
- DORMER WINDOWS DESIGNED TO ALLOW AIR TO FLOW FROM ATTIC OUT THROUGH THE DORMER RIDGE VENT. DO NOT CONSTRUCT AS "GRABBLU" ON ROOF SHEATHING. SEE ELEVATIONS FOR DORMER WINDOW TYPES AND LOCATIONS.
- THE END OF ANY RAIN 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 806:
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 REAR/NON STREET FACING SIDE OF ROOF.

UNIT BASE	MAX AREA	1:50	1:25	1:12.5	1:6.25	1:3.125	1:1.56	1:0.78	1:0.39	1:0.195	1:0.0975	1:0.04875	1:0.024375	1:0.0121875	1:0.00609375	1:0.003046875	1:0.0015234375
A	108 SF	4.1 SF	8.2 SF	16.4 SF	32.8 SF	65.6 SF	131.2 SF	262.4 SF	524.8 SF	1049.6 SF	2099.2 SF	4198.4 SF	8396.8 SF	16793.6 SF	33587.2 SF	67174.4 SF	134348.8 SF
B	111 SF	4.1 SF	8.2 SF	16.4 SF	32.8 SF	65.6 SF	131.2 SF	262.4 SF	524.8 SF	1049.6 SF	2099.2 SF	4198.4 SF	8396.8 SF	16793.6 SF	33587.2 SF	67174.4 SF	134348.8 SF
C1	108 SF	4.1 SF	8.2 SF	16.4 SF	32.8 SF	65.6 SF	131.2 SF	262.4 SF	524.8 SF	1049.6 SF	2099.2 SF	4198.4 SF	8396.8 SF	16793.6 SF	33587.2 SF	67174.4 SF	134348.8 SF
C2	108 SF	4.1 SF	8.2 SF	16.4 SF	32.8 SF	65.6 SF	131.2 SF	262.4 SF	524.8 SF	1049.6 SF	2099.2 SF	4198.4 SF	8396.8 SF	16793.6 SF	33587.2 SF	67174.4 SF	134348.8 SF
D1	596 SF	5.1 SF	10.2 SF	20.4 SF	40.8 SF	81.6 SF	163.2 SF	326.4 SF	652.8 SF	1305.6 SF	2611.2 SF	5222.4 SF	10444.8 SF	20889.6 SF	41779.2 SF	83558.4 SF	167116.8 SF