## ROOFING GENERAL NOTES

1. All 1/4:12 roofing to be TPO single ply membrane (chemical or mechanically fastened) unless otherwise noted in plan. Penetration and transition details per manufacturer installation instructions. See plan for direction.
2. CH/OF indicates location of 12" wide X 6" high thru-wall scupper with decorative conductor head (CH) leading to 3.5" X 5" downspout (DS) unless otherwise noted, and adjacent overflow (OH) scupper of same size. Set bottom 4" above bottom of primary scupper. Provide 6" OGEE gutters. Downspouts to be located to minimize visual impact. Refer to civil drawings.
3. See typical detail sheets for primary scupper and overflow scupper details.
4. Typical top floor plate is 9'-1 1/8" plate, crosshatch indicates 12'-1 1/8" plate, as shown in plan. Parapet height measured within this area is measured from the adjusted top floor plate.
5. Double layer of TPO membrane roof for work area adjacent to mechanical units, hatch indicates.
6. X'-X" PRPT indicates distance from top plate to top of parapet wall.
   X'-X" TRUSS indicates distance from top floor plat to top of box truss.
7. Backside of parapet wall to be TPO.
8. Roof truss depth to be 30" minimum.
9. Draftstopping location indicated by line
10. Symbols below denotes general location of required ventilation.
    High: Aztex Vent
    Low (near lowest point of roof slope): Pop Vent
11. No roof penetrations are allowed 4'-0" on each side of a firewall or building area separation wall. Exterior FRT sheating to be 4' on either side of firewal. Extents of no penetration zone is shown with this hatch pattern:
12. Attic access panels to be provided, located as shown. AP1 is a 2'x4' ceiling access panel. All access panels shall maintain same rating of the assembly and have self closing hardware. Refer to details on A2.8a. Locations shown in plan with this symbol: AP1 AP2 AP3
13. As req. provide 'collar' on high ventilation pop vents to achieve 36" vertical separation from low intake vents.

## Roof Drainage - Building 2

05/30/19

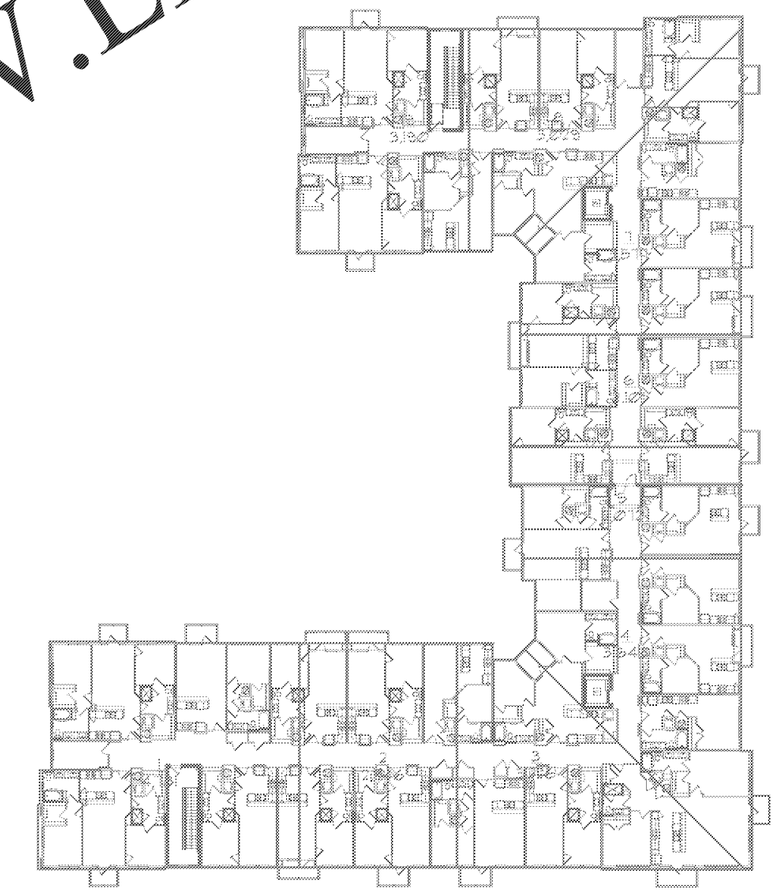
Design Criteria (Based on 2012 IPC Section 1106)

| 100 Year, 1 Hour Rainfall Rate= 3.5 in. | | Size (in.) | Slope (in.) | Allowable Area (sq. ft.) |
|---|---|---|---|---|
| | Downspout | 4x6 | | 9,615 |
| Based on SMACNA 1-1/2" head @ 3.5 in. rainfall rate | Scupper | 12x6 | | |

Note: At gutter collection system, distance between downspouts not to exceed 30 feet.

## Roof Drainage Calculations

| Roof Area Number | Projected Roof Area (sq. ft.) | | | Design Area Provided (sq. ft.) | | |
|---|---|---|---|---|---|---|
| | Flat Roof | Parapet | Total | Downspout | Storm | Gutter |
| 1 | 4,781 | 0 | 4,781 | 9,615 | N/A | N/A |
| 2 | 2,946 | 0 | 2,946 | 9,615 | N/A | N/A |
| 3 | 3,226 | 0 | 3,226 | 9,615 | N/A | N/A |
| 4 | 3,648 | 0 | 3,648 | 9,615 | N/A | N/A |
| 5 | 2,072 | 0 | 2,072 | 9,615 | N/A | N/A |
| 6 | 2,101 | 0 | 2,101 | 9,615 | N/A | N/A |
| 7 | 3,577 | 0 | 3,577 | 9,615 | N/A | N/A |
| 8 | 3,029 | 0 | 3,029 | 9,615 | N/A | N/A |
| 9 | 3,190 | 0 | 3,190 | 9,615 | N/A | N/A |



2 Building 2 - Roof Drainage
Scale: 1/16" = 1'-0"
Plan



Seal

May 15, 2020

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| | |
|---|---|
| Project: | 1928.00 |
| CADD File: | MSRP |
| Drawn By: | SGS |
| Checked By: | GA |

Permit Release:
May 15, 2020
Construction Release Set:
May 15, 2020

Revisions

| No. | Date | Description |
|---|---|---|

ASI / RFI Revisions

| No. | Date | Description |
|---|---|---|



**Borough 33**
an Apartment Community by
33 Broad MF, LLC
in Chattanooga, Tennessee

Drawing Title:
Building 2 - Roof Drainage

**A2.5d**

ISSUED FOR CONSTRUCTION