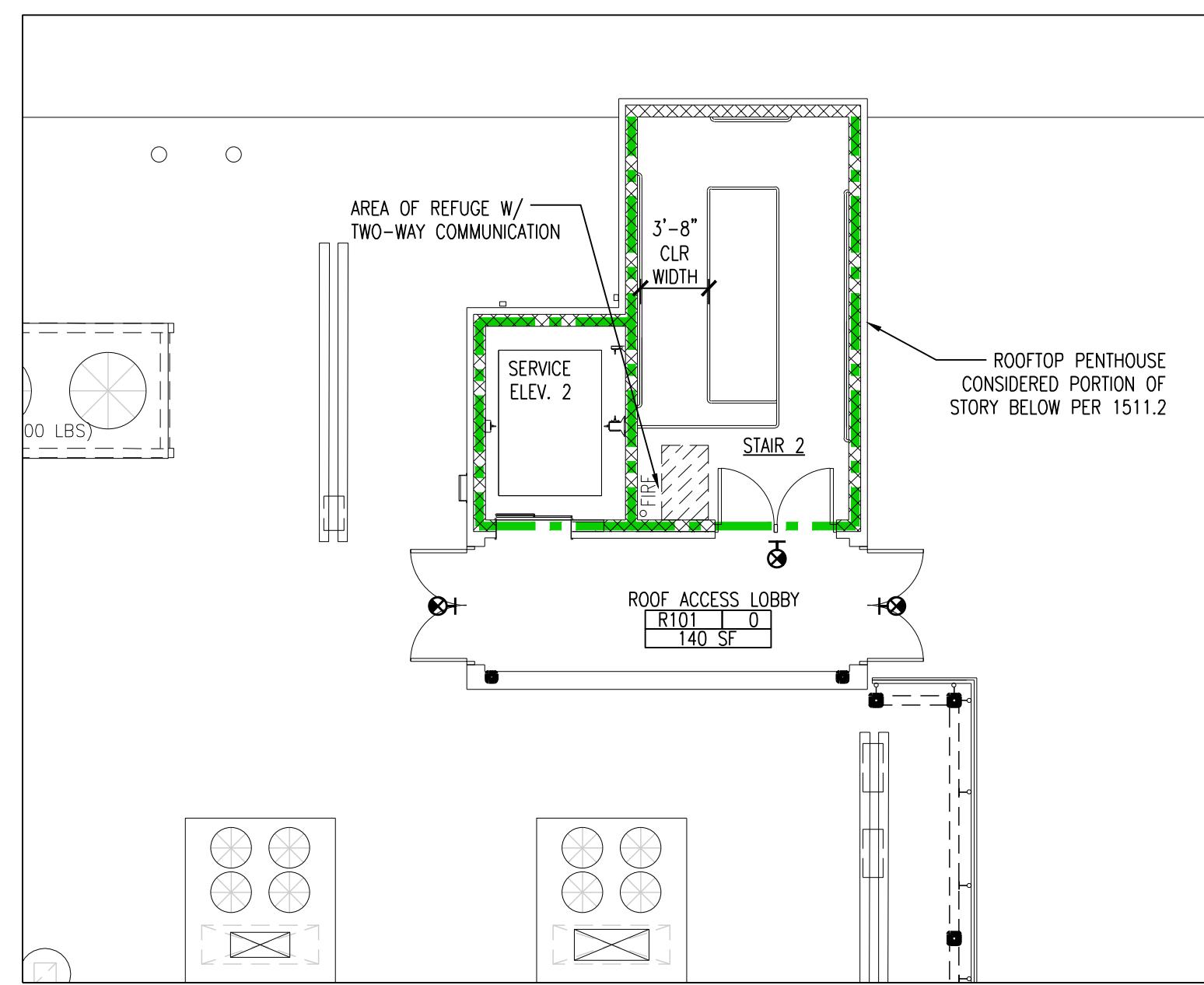
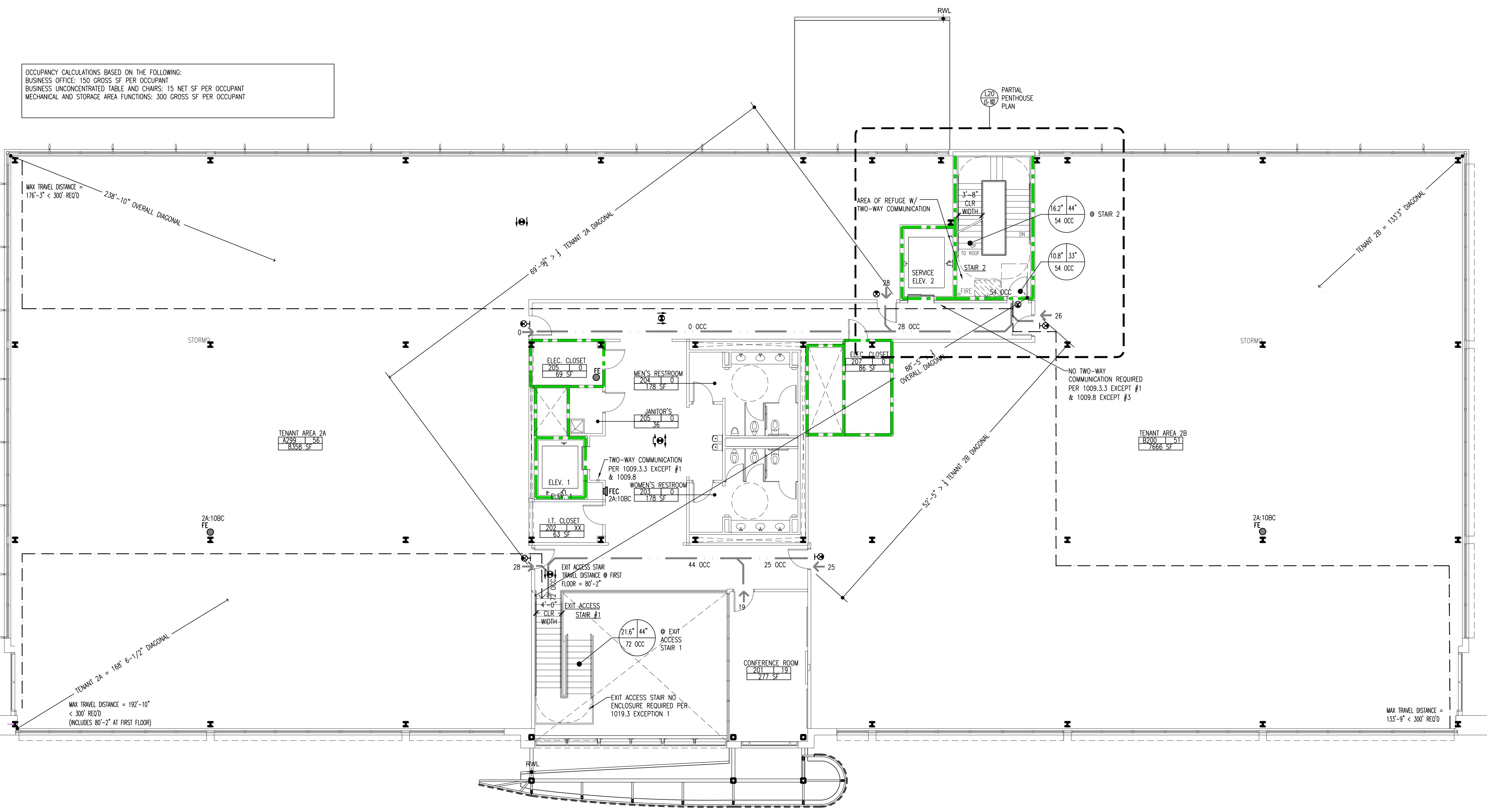


19	18	17	16	15	14	13	12	11	10	9	8	7	6	5	4	3	2	1
BUILDING CODE ANALYSIS																		
Applicable Codes:																		
building subcode (njc 5.23.3.14)																		
international building code 2021, nj ed (ibc w/ nj edits)																		
corrected page (n. errata)																		
corrected sections (ccr errata)																		
other referenced codes (ic 2021; ipsc 2021; etc.)																		
other referenced icc standards (icc/ansi a117.1-2017; icc 300-2017; etc.)																		
plumbing subcode (njpc 5.23-3.15)																		
national standard plumbing code 2021																		
electrical subcode (njec 5.23-3.16)																		
national electrical code (nfpa 70) 2020																		
energy subcode (njec 5.23-3.18)																		
international energy conservation code 2021																		
mechanical subcode (njmc 5.23-3.20)																		
international mechanical code 2021																		
fuel gas subcode (njfc 5.23-3.22)																		
international fuel gas code 2021																		
barrier free subcode (chapter 11 of njbc 2015 & njac 5.23-7)																		
iclanis a117.1-2017																		
elevator subcode (njec 5.23-12)																		
american society of mechanical engineers (asme)																		
Chapter 3: Use and Occupancy Classification: Non-Separated B Occupancy																		
The primary Use Occupancy is Business Type B Use as defined by section 304. The Project is composed of office space with accessory mechanical and storage areas of non-separated use.																		
Main Occupancies (non separated): B BUSINESS																		
Accessory Occupancies (non separated): S-2 MECHANICAL AND STORAGE 311.1.1 room or space used for storage purposes and accessory to another occupancy shall be classified as part of that occupancy.																		
Chapter 4: Special Detailed Requirements Based on Use and Occupancy																		
Atriums section 404: automatic sprinkler system shall be installed throughout the entire building per 404.5 exception #1: smoke control is not required for atriums that connect only two stories. per 404.6 exception #4: a fire-barrier is not required if not required between the atrium and the adjoining spaces where the atrium is not required to be provided with a smoke control system																		
Chapter 5: General Building Heights and Areas																		
The design is based on Type IIB Construction. The building is to be equipped throughout with a sprinkler system per 903.3.1.																		
HEIGHT LIMITATIONS: Table 504.3 & table 504.4 notes that in Occupancy classifications B the following is allowable:																		
Type IIB Construction, With Sprinklers per 903.3.1: 75' Maximum Height; 4 stories above grade plane																		
Proposed Height: <75ft from the Grade Plane to the average roof height. Refer to the building elevations																		
Proposed building is 2 stories with roof access through																		
BUILDING AREA:																		
502.1 Single Occupancy buildings. The allowable area of each story of a single-occupancy building shall be determined in accordance with Equation 5-1:																		
B Occupancy Allowable Area Factor: 69,000 sf Proposed largest story (2nd floor): 20,333 sf no footage increase required or used.																		
Chapter 6 Types of Construction																		
Proposed construction type: TYPE 2B																		
Table 601 indicates the following minimum required ratings for various building elements:																		
Type IIB:																		
Primary Structural Frame 0																		
Bearing Walls (Exterior) 0																		
Bearing Walls (Interior) 0																		
Non-Bearing Walls (Exterior) 0																		
Non-Bearing Walls (Interior) 0																		
Floor Construction + Secondary Members 0																		
Roof Construction + Secondary Members 0																		
Exterior Wall Ratings: According to Table 602, the exterior walls do not need to be rated since the building is more than 30' from any adjacent buildings.																		
Chapter 7 Fire and Smoke Protection Features																		
Exterior Wall Openings 705.8: The maximum exterior wall openings are not limited based on Table 705.8. The project features a fire separation distance greater than 30' and the openings are unprotected but within a sprinklered building.																		
Fire-barrier continuity 707.5: fire barriers shall extend from the top of the foundation or floor/ceiling assembly below to the underside of the floor or roof sheathing, slab or deck above and shall be securely attached thereto.																		
fire-barrier supporting construction 707.5.1: supporting construction for a fire barrier shall be protected to afford the required fire-resistance rating of the fire barrier supported, hollow vertical spaces within a fire-barrier shall be firelocked in accordance with section 718.2 at every floor level.																		
Shaft Enclosures section 713: 1-hour, connecting less than four stories. - shall be constructed as fire-barriers in accordance with section 707																		
Chapter 8 Interior Finishes																		
OCCUPANCY	Interior exit stairways, Corridors and enclosure for exit access stairways and ramps;	Rooms and enclosed spaces:																
GROUP:																		
B:	B C	C																
S:	C C	C																
Chapter 9 Fire Protection Systems																		
901.6.1 automatic sprinkler systems shall be monitored by an approved supervising station																		
901.6.3 Fire Alarm Systems. Fire alarm systems required by the provisions of Section 907.2 of the 2021 IBCNJ and Sections 907.2 and 907.9 of the International Fire Code shall be monitored by an approved supervising station in accordance with Section 907.6 of the IBCNJ.																		
Automatic Sprinkler systems Provided, fully sprinklered per 903.3 to meet NFPA 13																		
Fire Pump and Riser Room Size 902.1: Fire pump and riser room size: where provided, shall be designed with adequate space for all equipment necessary for the installation, with sufficient working room around the stationary equipment, and doors and unobstructed passageways large enough to allow removal of the largest piece of equipment.																		
902.1.2 access doors shall be labeled with approved sign having lettering in contrasting color to the background, letters shall have minimum 2" height with 3/8" stroke.																		
Exit access travel distance (Table 1017.2)																		
B Occupancy: 300' with a Sprinkler System S-1 Occupancy: 250' with a Sprinkler System																		
Corridor Width: Capacity of corridors shall be determined as specified in section 1005.1 but not less than 44" as per 1020.2.																		
Dead end corridor: Maximum length to be no more than 50 ft per 1020.4 exception 2 for Occupancy Groups B and S-1.																		
Corridor Fire-Resistance Rating (Table 1020.1) B, S Occupancies: No rating required with a sprinkler system.																		
Chapter 10 Means of Egress																		
Occupant loads per Table 1004.1.2:																		
S-1 Storage Areas / Mechanical: 300 gross B Business Areas: 150 gross unconcentrated assembly 15 net																		
Egress Components: per 1005.3.1 stairways: 0.3' per occupant per 1005.3.2 other egress components: corridors, Door Width Components: 2' per occupant																		
Spaces with one exit & common path travel distances per Table 1006.2.1: Occupancy Max occupant load: Common path of travel: B 49 100' S: 29 100'																		
Number of exits: Each story and occupied roof shall have a minimum number of independent exits or access to exits per Table 1006.3.1 Occupant load per story: 1-500 = 2 exits required and provided. (2035sf / 150 per occ = 136 occupants per floor)																		
Boiler rooms: two exit access doorways are required in boiler, incinerator and furnace rooms where the area is over 500sf and any fuel fired equipment exceeds 400,000 BTU input capacity per 1009.8																		
Two exits or exit access doorways: 1007.1.1 exception 2: where building is equipment through with an automatic sprinkler system, the separation distance shall not be less than one-third of the length of the maximum overall diagonal dimension of the area served.																		
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Accessible Parking Facilities 1106.2: At least 2% but not less than 1 parking space will be accessible. As per section 1106.5, at least one space of every 6 accessible parking spaces is required to be a Van-Type space.																		
Chapter 11 Accessibility																		
Site Arrival Points 1104.1: At least one accessible route within the site shall be provided from public transportation stops, accessible parking, accessible passenger loading zones, and public streets or sidewalks to the accessible building entrance served. This project features accessible parking spaces and loading zones with an accessible route from those areas to the main entry.																		
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Chapter 15 Rooftop Structures																		
Section 1511.1 area limitation: aggregate area of penthouses and other enclosed rooftop structures shall not exceed one-third of area of supporting roof deck; such penthouses and other enclosed rooftop structures shall not be required to be included in determining the building area or number of stories as regulated by section 503.1																		
Section 1511.2 penthouse shall be considered as a portion of the story directly below the roof deck on which such penthouses are located when:																		
- shall not exceed 18ft in height above the roof deck as measured to the average height above the roof deck, or																		
- shall not be used for purposes other than shelter of mechanical equipment, elevators, stairs, or other equipment required to be located on the roof deck, and																		
- penthouses shall be constructed of building elements as required for the type of construction of the building on which such penthouses are built.																		
Section 1511.6 Mechanical screens: fire separation distance is greater than 5ft, mechanical screens shall not be required to comply with fire resistance rating requirements, height shall not exceed 18ft in height above roof deck as measured to the highest point on the mechanical equipment screen.																		
PROPOSED COMPLIES.																		
Total Building Area and Occupancy																		
Occupants Area																		
1st Floor 132 19,783 gsf																		
2nd Floor 136 20,333 gsf																		
total: 268 40,116 gsf																		
Plumbing Fixtures:																		
(2021 NSPC NJ Edition)																		
When based on the egress occupants, the number of occupants may be reduced to 2/3 the total occupant load. 180 occupants total = 90 Occupants per floor.																		
When both sexes are present in equal numbers, the total occupants may be multiplied by																		



L20 PARTIAL ROOF & ROOFTOP PENTHOUSE LIFE-SAFETY PLA

SCALE: 1/



A20 SECOND FLOOR LIFE SAFETY PLAN

Clarke Eaton Hirtz
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Y
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ENGINEER:
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37-2100

& GILLIGO CONSULTING ENGINEERS
INCETON HIGHTSTOWN RD.
A, SUITE 9
ANDSOR TWP., NJ 08550
9-8336

RAL:
N HAMNETT
WLES STREET

ITIONS	
TE	DESCRIPTION
1/2023	SCHEMATIC DESIGN
2/2023	DESIGN DEVELOPMENT
10/2023	90% CD'S
04/2023	OSC SUBMISSION
18/2023	EARLY SITE PACKAGE
15/2023	EOP CONSTRUCTION

A circular architectural drawing showing a plan view of a room or space. Inside the circle, there is a signature that appears to read "George M. Hibbs" and the text "GEORGE M. HIBBS, AIA". To the right of the circle, the date "DATE 09/15/2023" is printed vertically.

N.A.R.T.P. BUILDING 2 G HARBOR TWP.,

: AS NOTED
N BY:
KED BY:
TITLE:
SECOND FLOOR

NG NO.:
S-102

PROJECT NO: 2328



Clarke Caton Hintz

Architecture
Planning
Landscape
Architecture

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