

Arlington Heights Senior

2045 S Arlington Heights Rd

Arlington Heights, IL 60005



DRAWING INDEX				
DRAWING NUMBER	DRAWING NAME	VILLAGE APP. 07/30/2020	DESIGN RE-SUBMIT 10/28/2020	PLAN RE-SUBMIT 11/19/2020
ARCHITECTURAL DESIGN APPLICATION				
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UNIT MIX & SQUARE FOOTAGES

OVERALL BUILDING METRICS					
	TOTAL GSF	COMMON GSF	INDEPENDENT LIVING GSF	ASSISTED LIVING GSF	MEMORY CARE GSF
LEVEL 1	71,461	24,689	22,972	8,787	15,013
LEVEL 2	59,553	7,777	30,194	21,582	0
LEVEL 3	59,553	6,950	30,194	22,409	0
TOTAL	190,567	39,416	83,360	52,778	15,013
UNITS	93	58	24	626	0
GSF/UNIT	896	910	910	910	626
SURFACE STALLS	194	0	0	0	0
STALLS PER UNIT	1.11	0	0	0	0
TOTAL UNITS	175	0	0	0	0

INDEPENDENT LIVING UNIT METRICS								
Level	1	2	3	TOTAL	%	BeDs	Avg	Range
Studio	3	3	3	9	10%	9	445	431-452
1 Bedroom	12	18	18	48	52%	48	679	646-737
1 Bedroom + Den	6	8	8	22	24%	22	926	870-987
2 Bedroom	4	5	5	14	15%	28	1069	1068-1072
TOTAL	25	34	34	93		107	774	

ASSISTED LIVING UNIT METRICS								
Level	1	2	3	TOTAL	%	BeDs	Avg	Range
Studio	0	3	3	6	10%	6	431	431
1 Bedroom	5	12	12	29	50%	29	682	646-758
1 Bedroom + Den	2	5	4	11	19%	11	915	827-960
2 Bedroom	2	5	5	12	21%	24	1080	1068-1091
TOTAL	9	25	24	58		70	782	

MEMORY CARE UNIT METRICS								
Level	1	2	3	TOTAL	%	BeDs	Avg	Range
Private Studio	16	0	0	16	67%	16	376	334-379
Companion Studio	8	0	0	8	33%	8	400	400
TOTAL	24	0	0	24		24	384	



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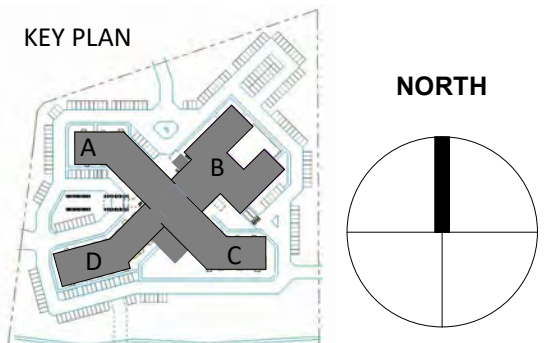
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PLAN COMMISSION +
DESIGN REVIEW
APPLICATION
10/28/2020

ORIGINAL ISSUE: 10/28/2020

REVISIONS		
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1	VILLAGE RESUBMIT	11/04
2	VILLAGE RESUBMIT	11/19

220601
PROJECT NUMBER
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Checker _____
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Arlington Heights Senior

TITLE PAGE

A0-0

PROJECT TEAM

OWNER/DEVELOPER: Trammell Crow Company
700 Commerce Dr. Suite 455
Oak Brook, IL 60523
Ph: 630-990-1501

ARCHITECT: Elness Swenson Graham Architects, Inc.
500 Washington Ave. South, Suite 1080
Minneapolis, MN 55415
Ph: 612-339-5508

CIVIL ENGINEER: SPACECO, Inc.
9575 W Higgins Road, Suite 700
Rosemont, IL 60018
Ph: 847-696-4060
Attn: Brett Duffy

LANDSCAPE ARCHITECT: Confluence
307 N Michigan Ave #601
Chicago, IL 60601
Ph: 312-663-5494
Attn: Craig Soncrant

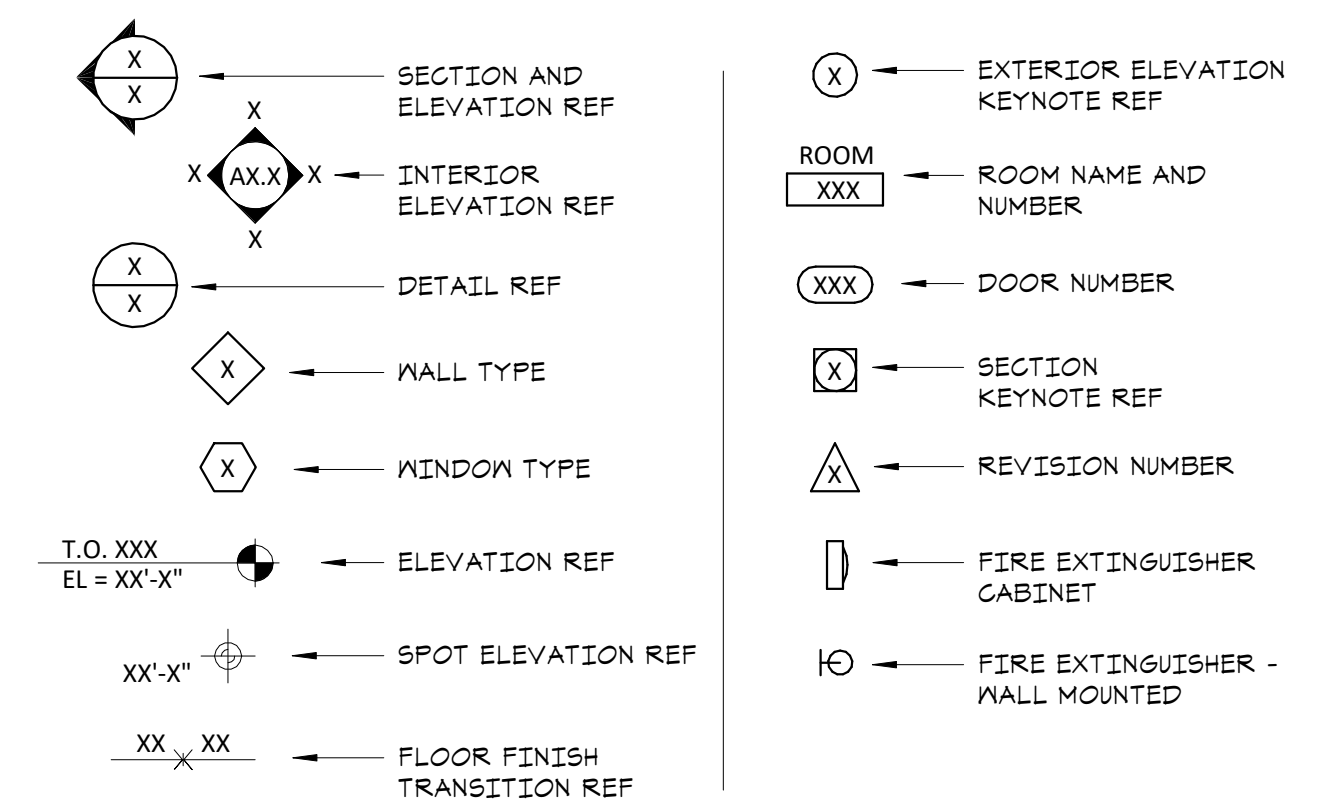
CONTRACTOR: T.B.D.

STRUCTURAL ENGINEER: T.B.D.

MECHANICAL/PLUMBING ENGINEER: T.B.D.

ELECTRICAL ENGINEER: Emanuelson-Podas, Inc
7705 Bush Lake Road
Edina, MN 55439
Ph: 952-930-0050
Attn: Justin Artz

SYMBOLS LEGEND



PROJECT LOCATION



Vicinity



Site Location



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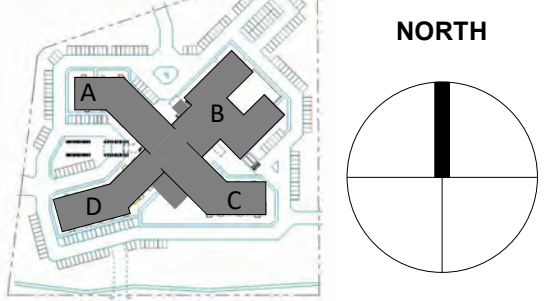
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KEY PLAN



Arlington Heights Senior

EXISTING SITE PHOTOS

A0-1



1 STREET VIEW - FROM SW CORNER, LOOKING NORTH



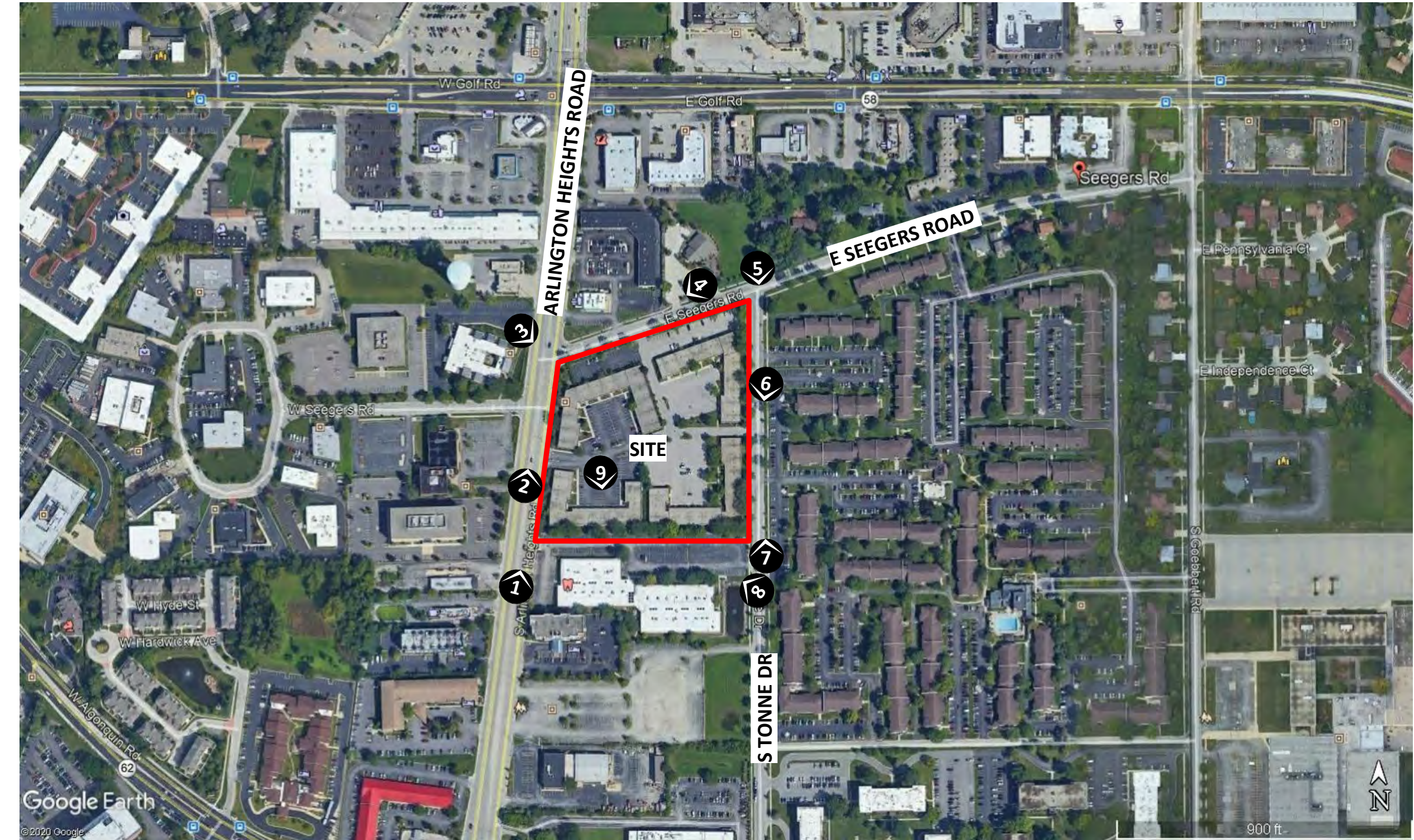
2 STREET VIEW - AT WEST CURB CUT, LOOKING NORTH



3 STREET VIEW - AT CORNER OF ARLINGTON HEIGHTS ROAD & E SEEGER ROAD, LOOKING SOUTHEAST



4 STREET VIEW - ON E SEEGER ROAD, LOOKING WEST



SITE PLAN



AERIAL PERSPECTIVE FROM THE NORTHEAST



AERIAL PERSPECTIVE FROM THE SOUTHWEST



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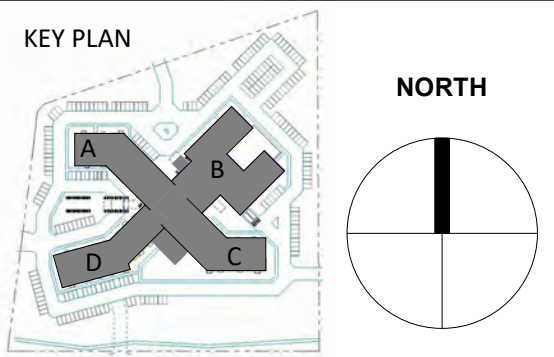
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EXISTING SITE PHOTOS

A0-2



5 STREET VIEW - FROM NE CORNER, LOOKING SOUTH



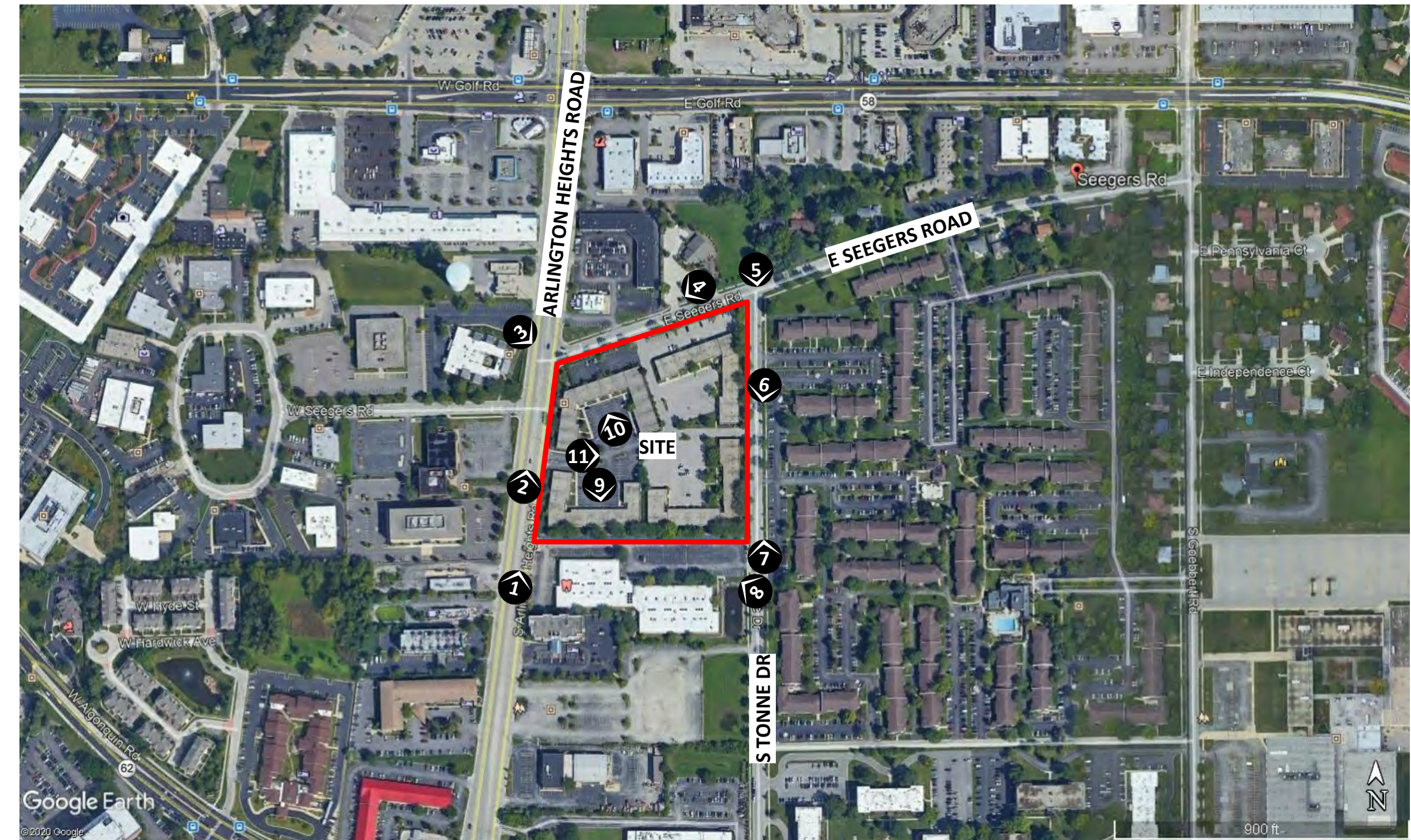
6 STREET VIEW - AT EAST CURB CUT



7 STREET VIEW - FROM SE CORNER, LOOKING NORTH



8 STREET VIEW - FROM SE CORNER, LOOKING WEST



SITE PLAN



9 STREET VIEW - INTERIOR OF PROPERTY



10 STREET VIEW - INTERIOR OF PROPERTY



11 STREET VIEW - INTERIOR OF PROPERTY



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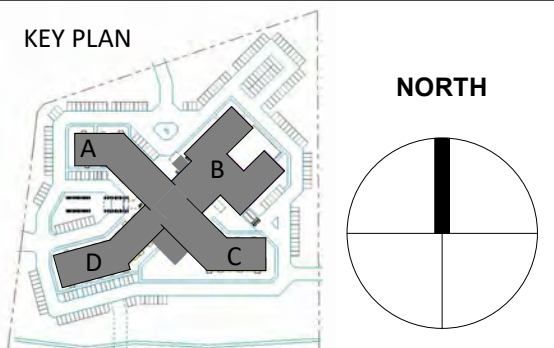
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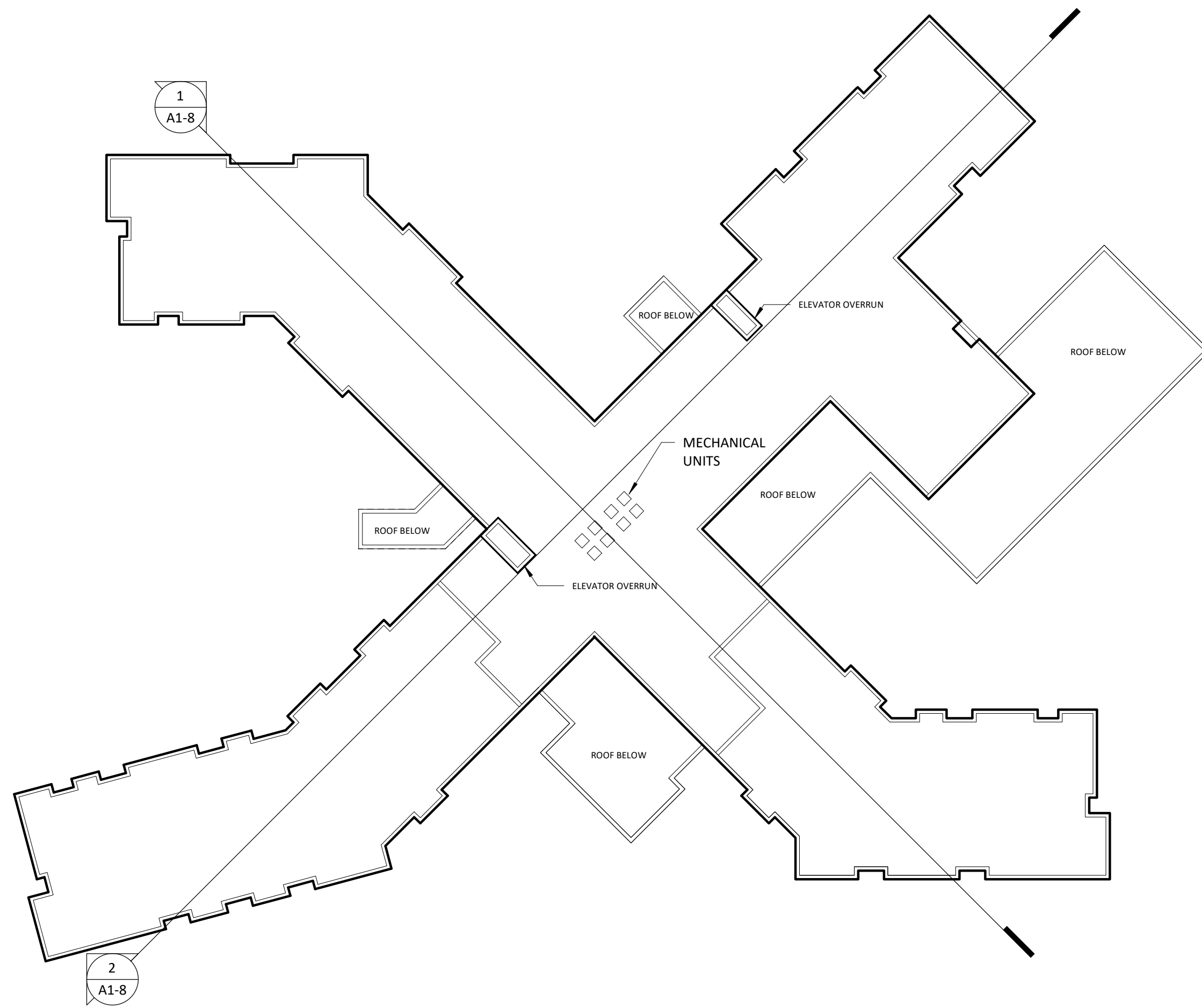
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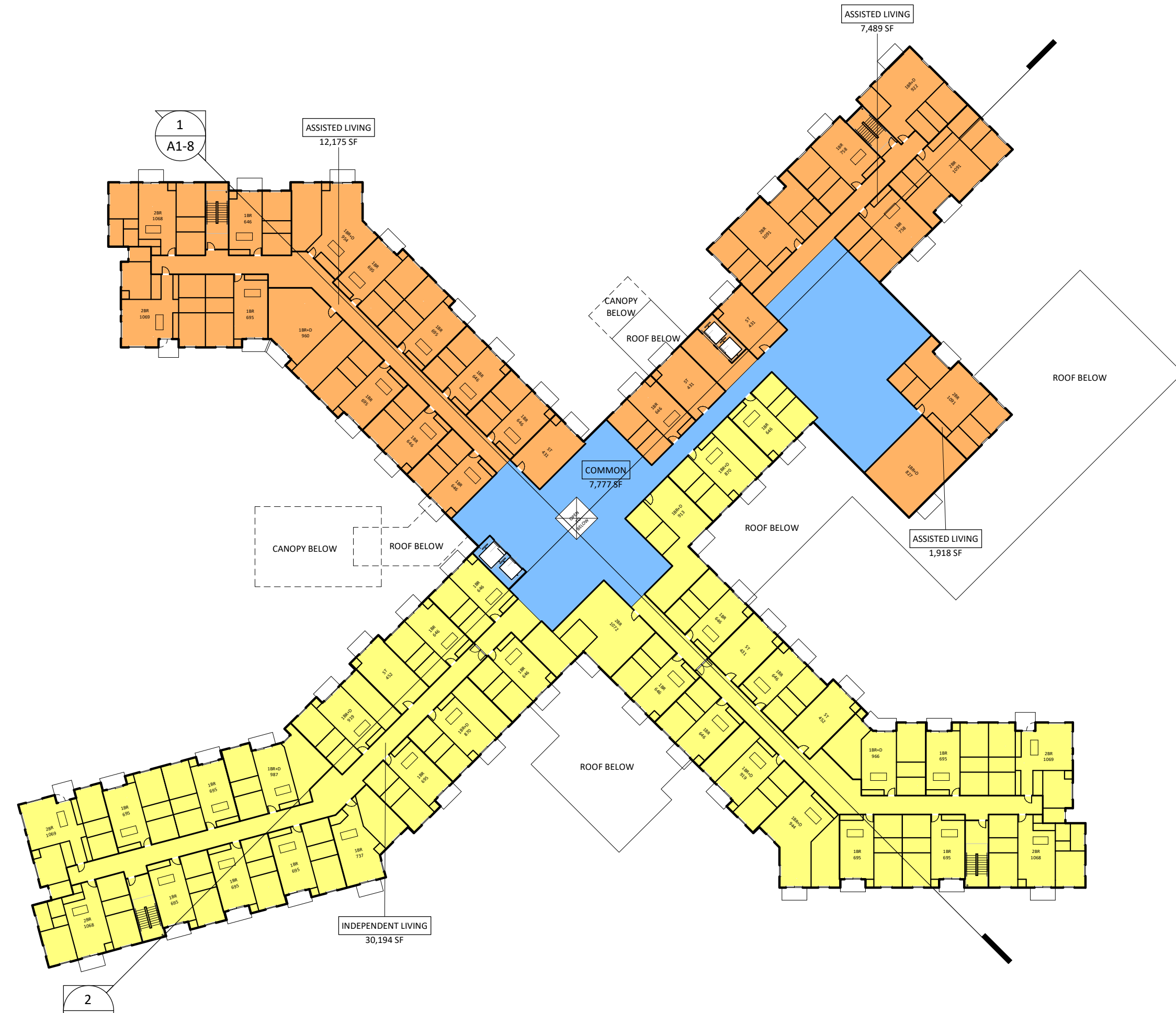
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PLANS

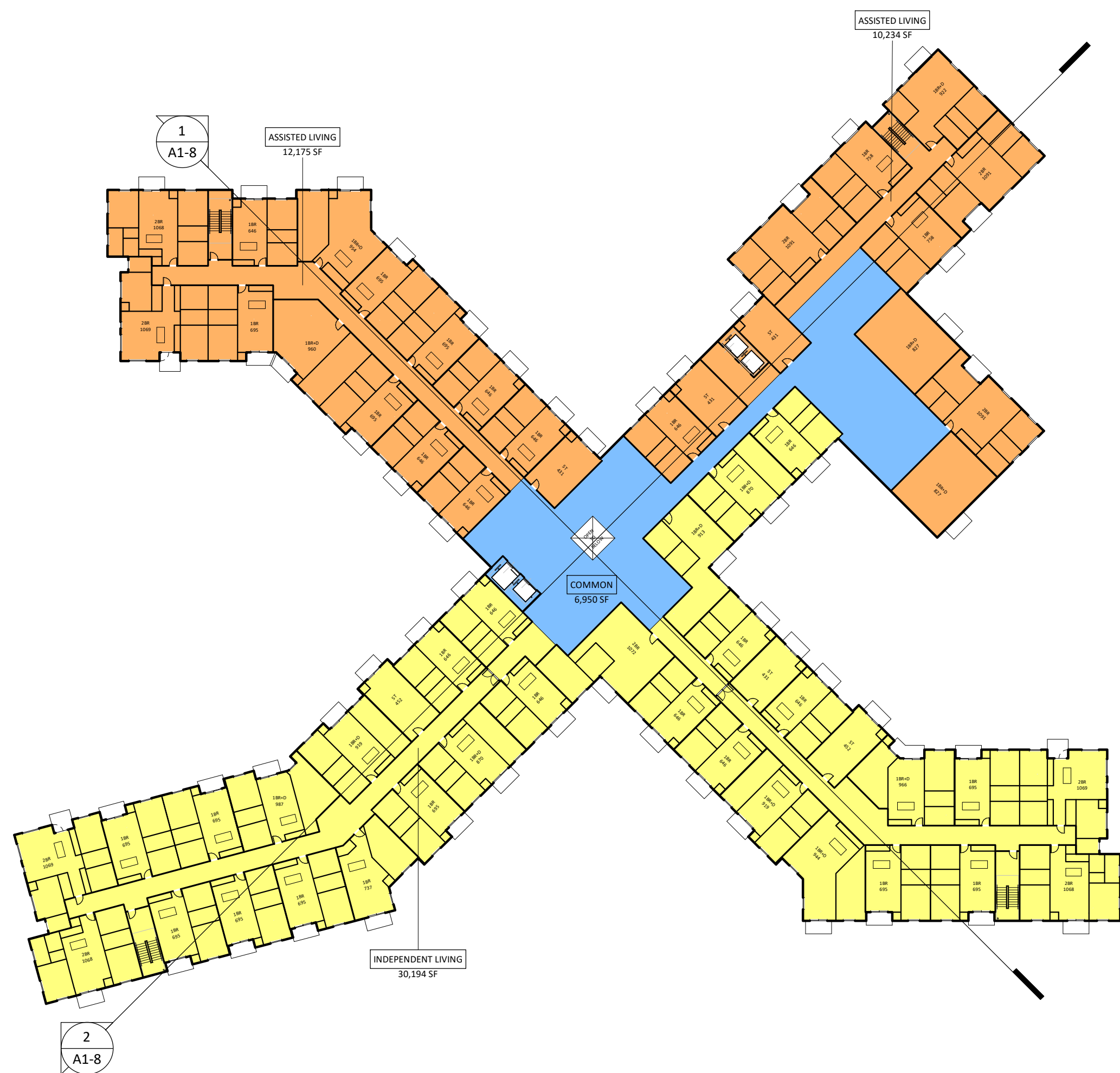
A1-1



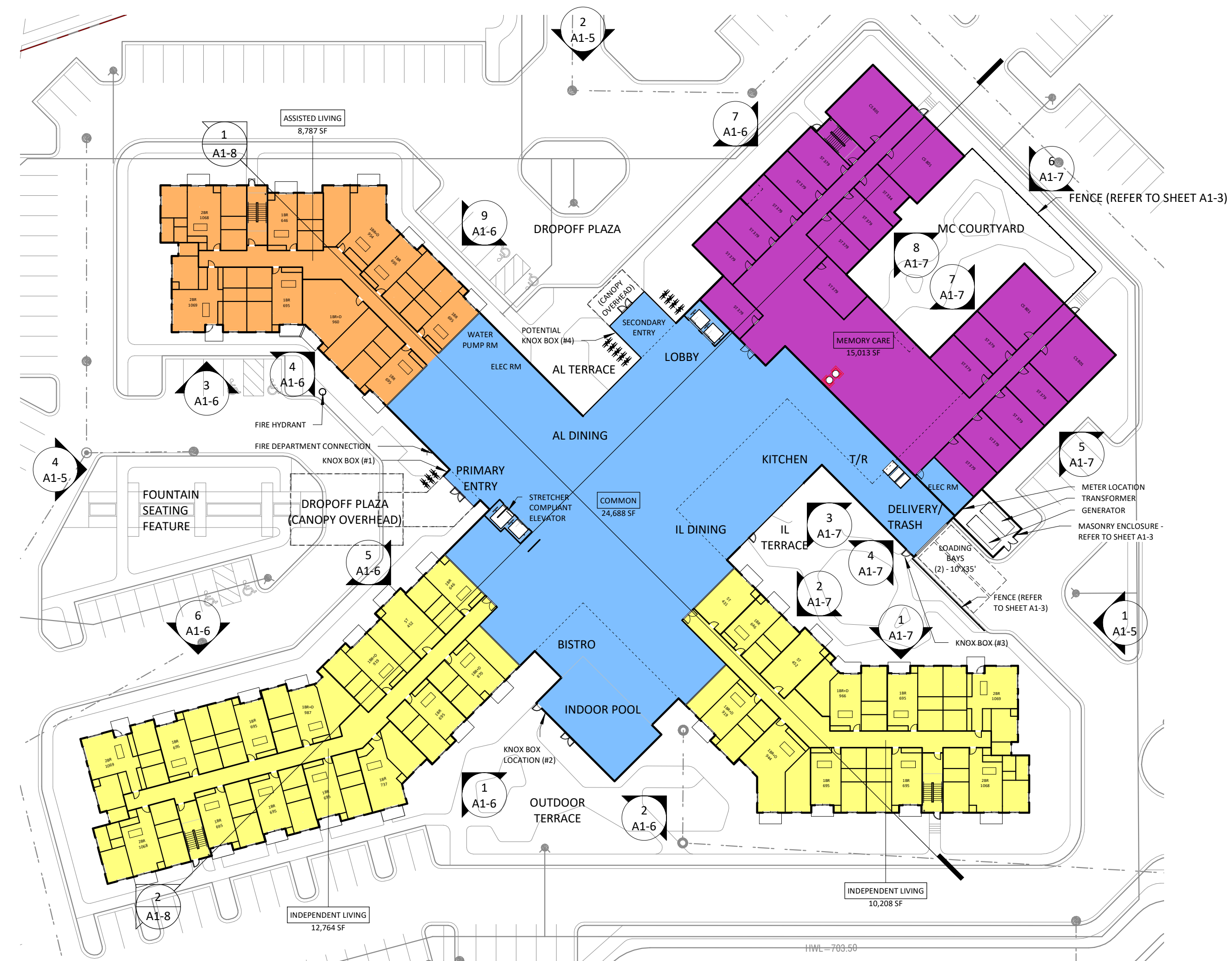
4 ROOF PLAN
A1-1 1" = 40'-0"



3 LEVEL 2 PLAN
A1-1 1" = 40'-0"



1 LEVEL 3 PLAN
A1-1 1" = 40'-0"



2 FIRST LEVEL FLOOR PLAN
A1-1 1" = 40'-0"

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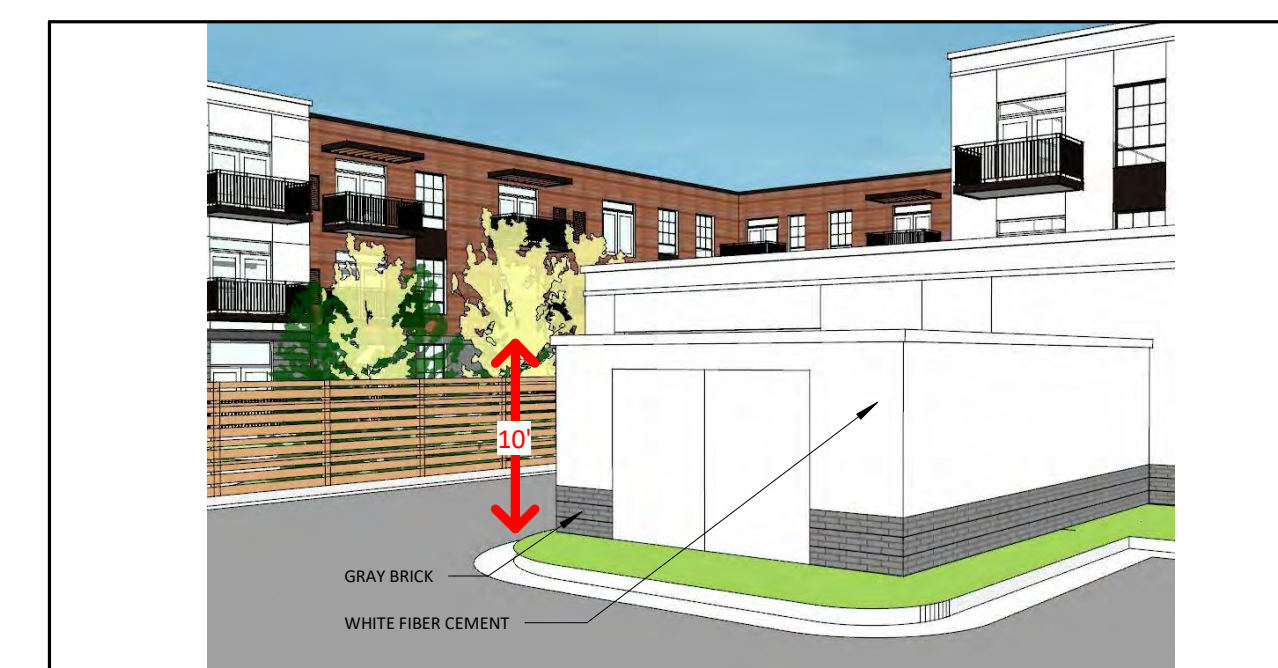
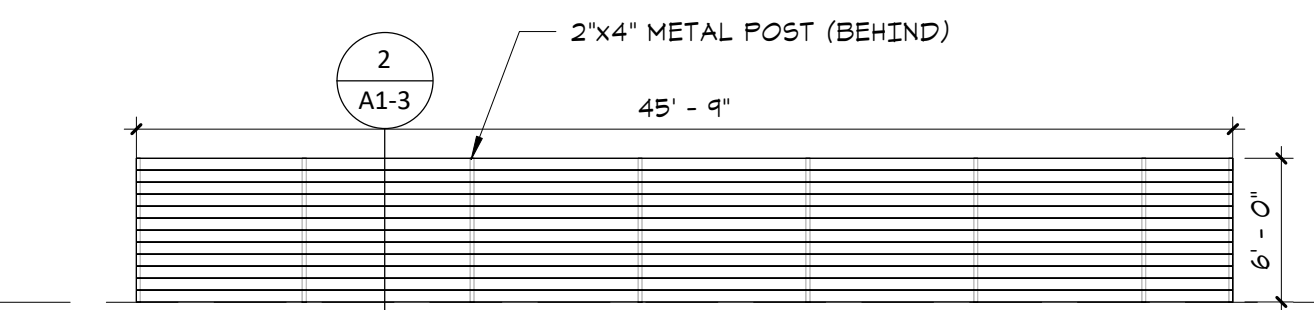
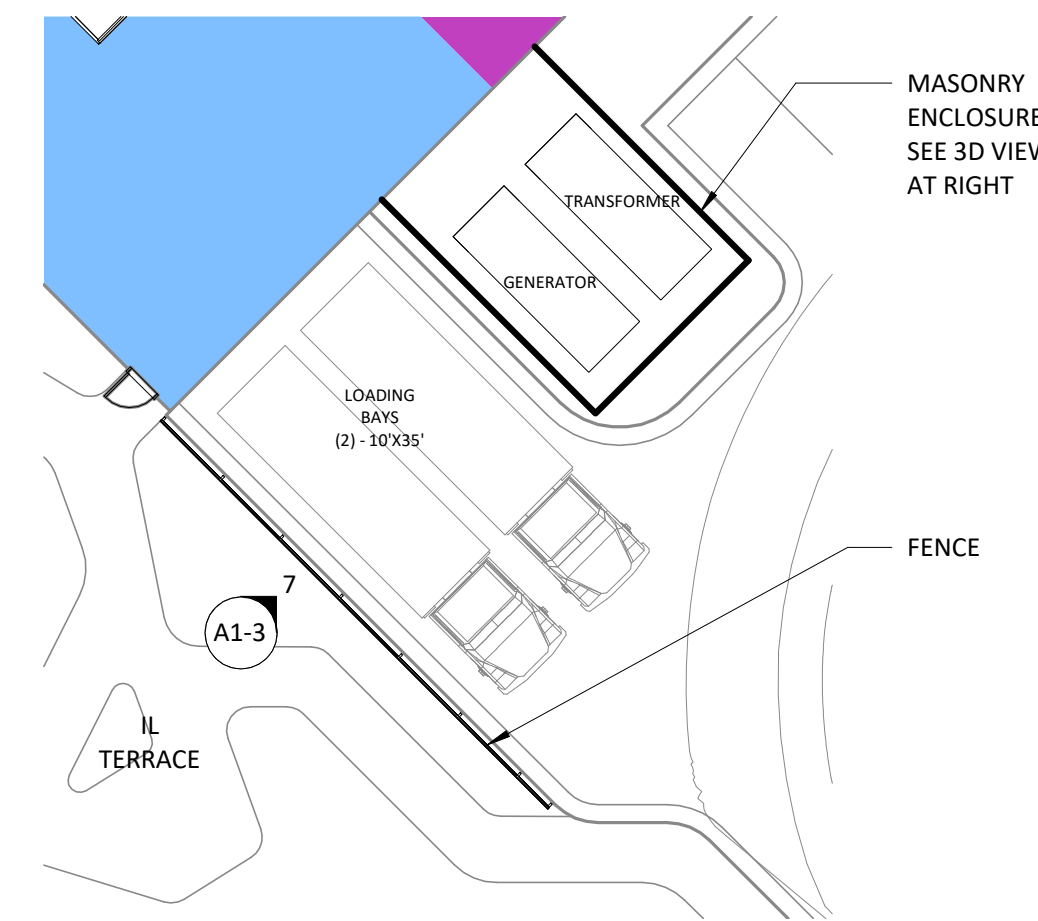
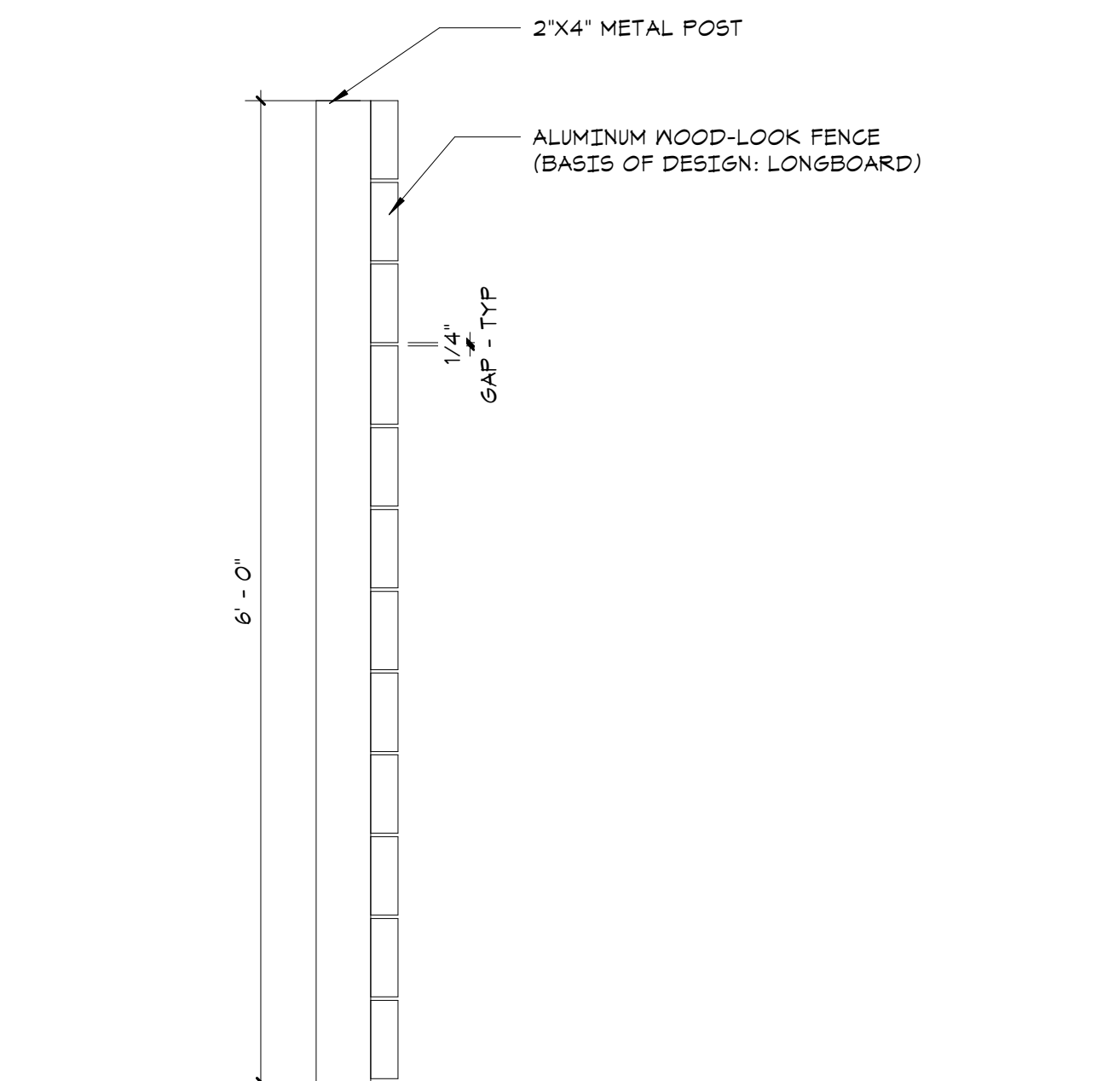
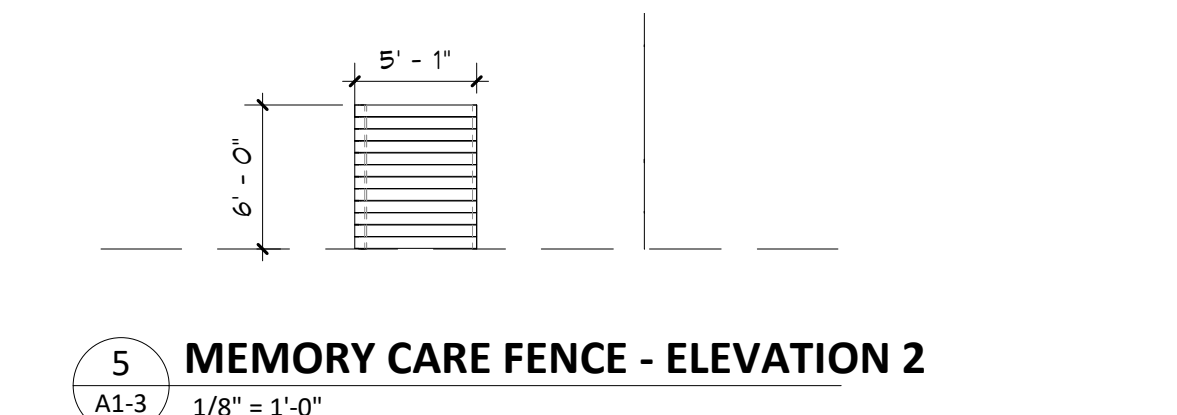
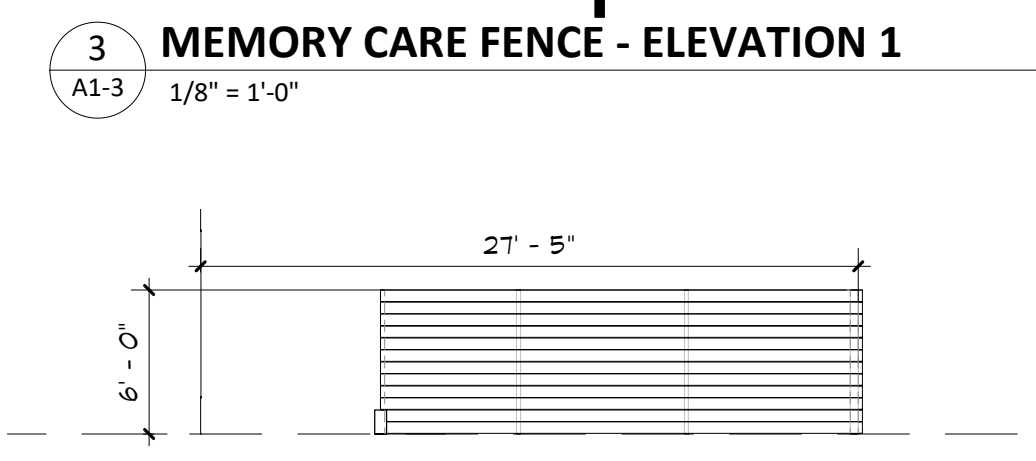
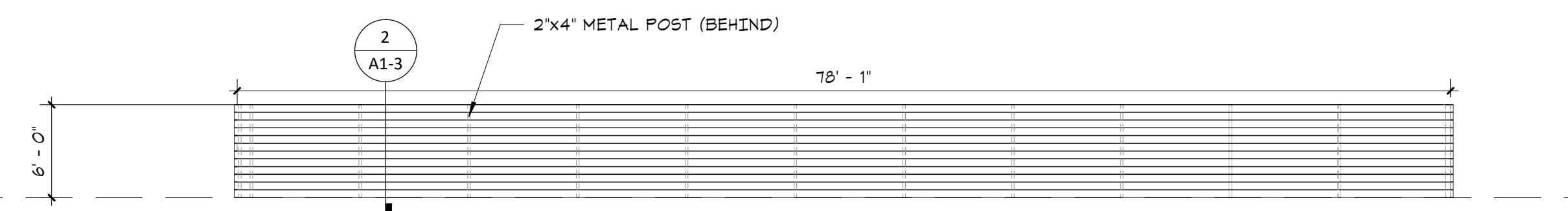
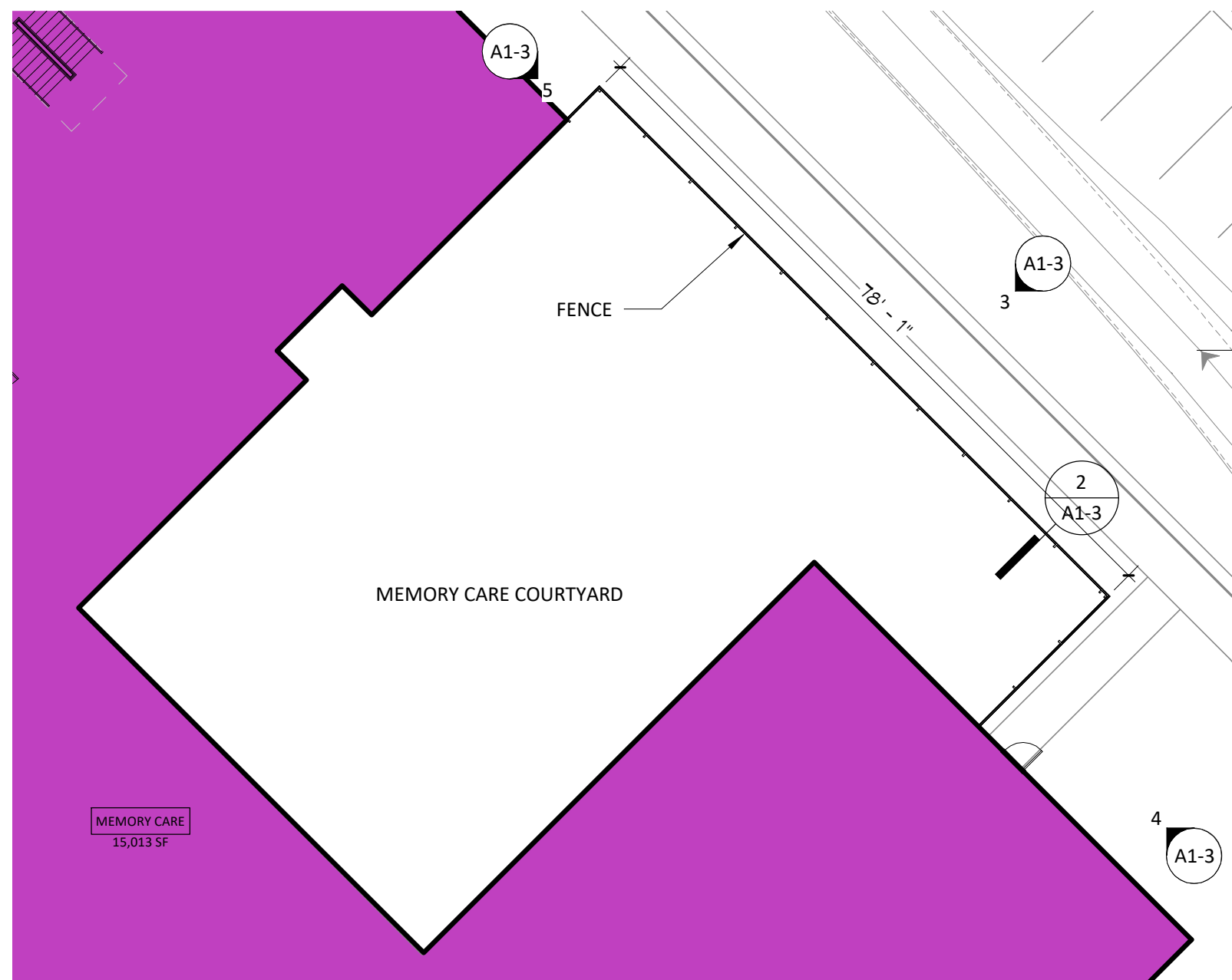
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KEY PLAN

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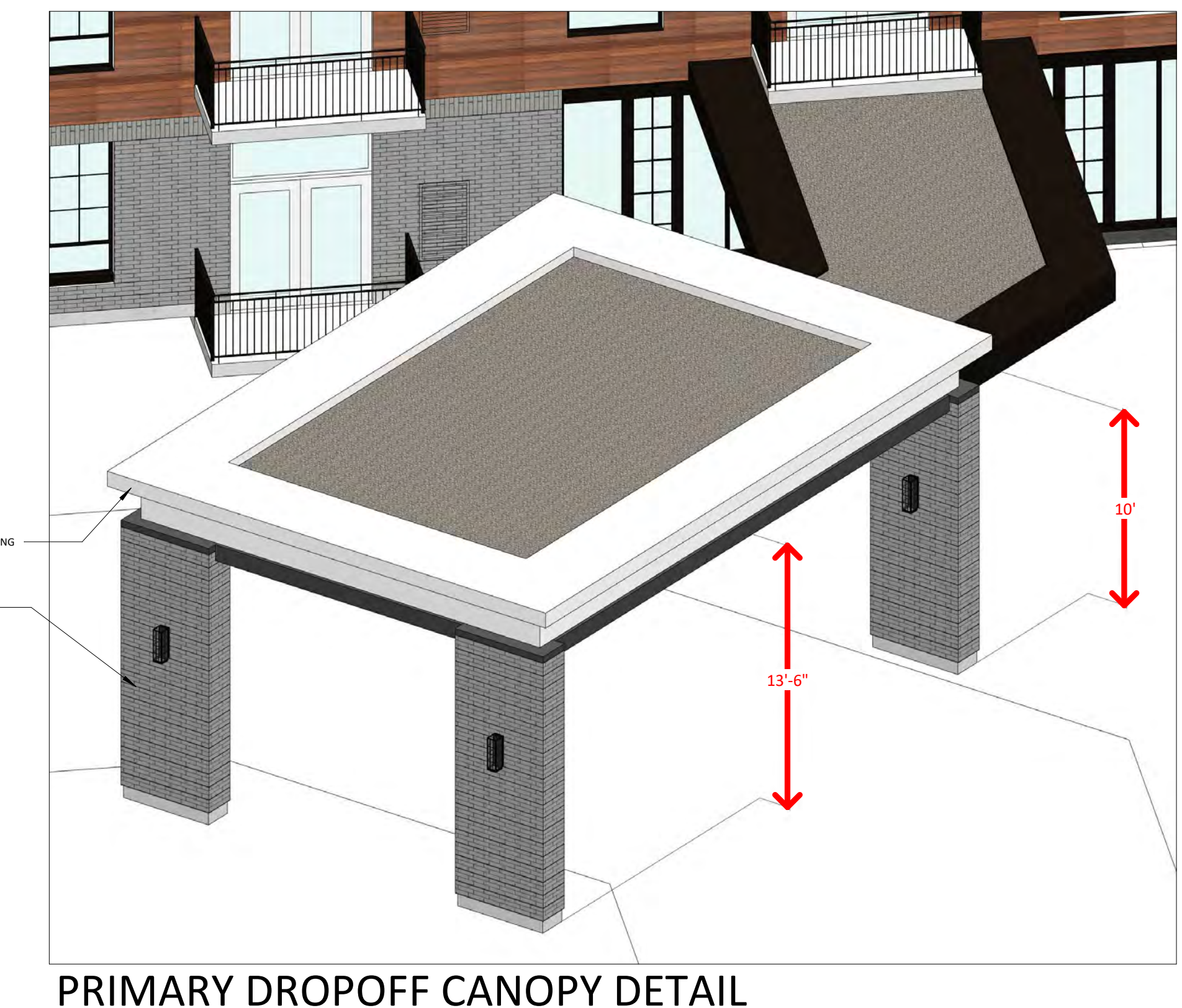
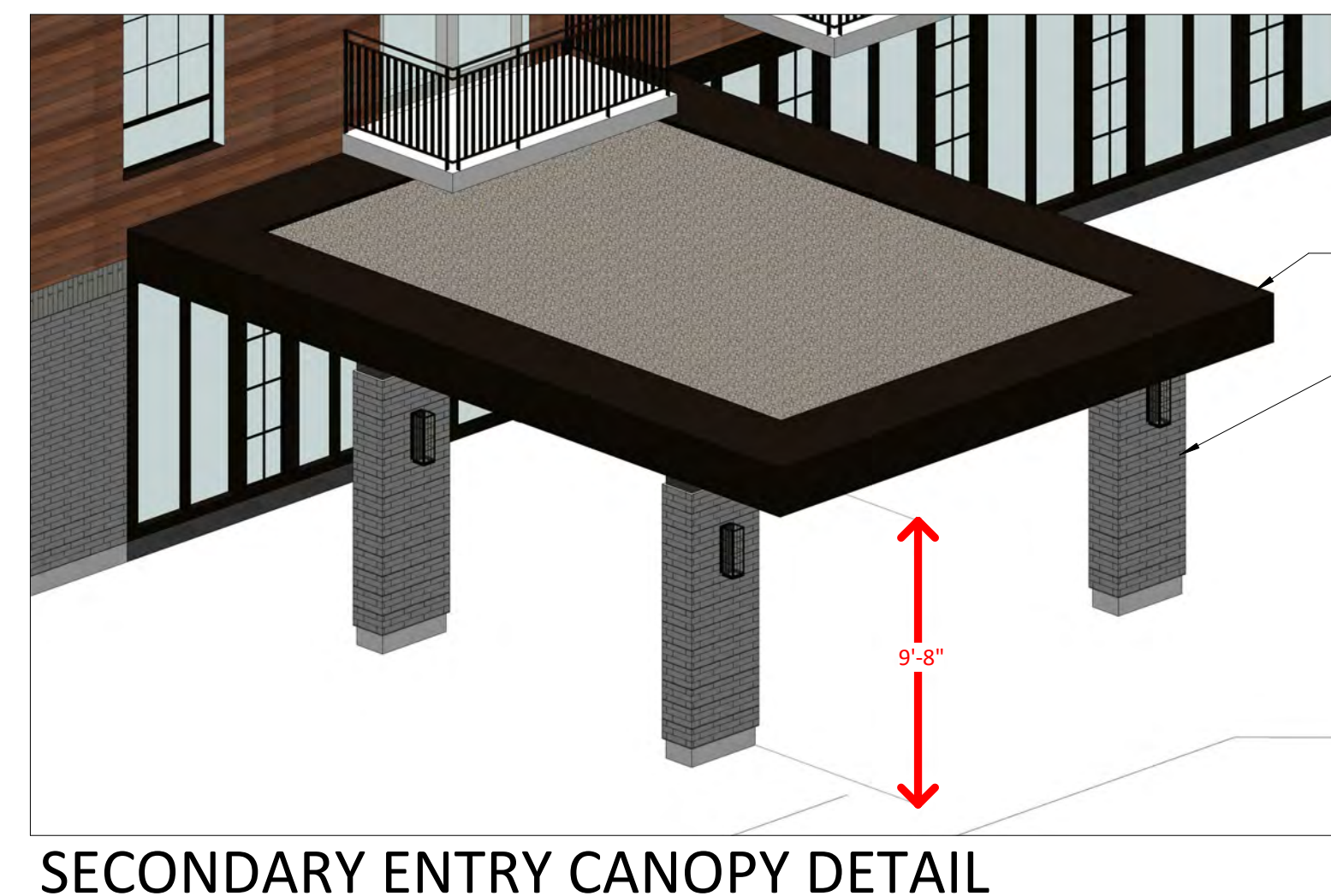
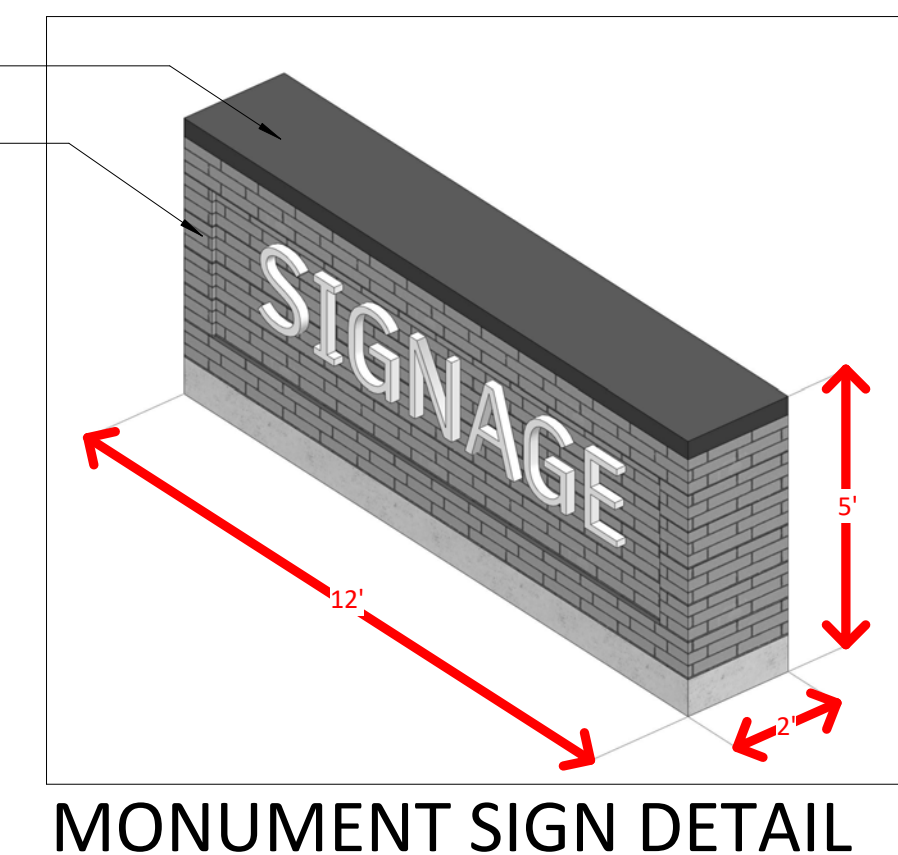
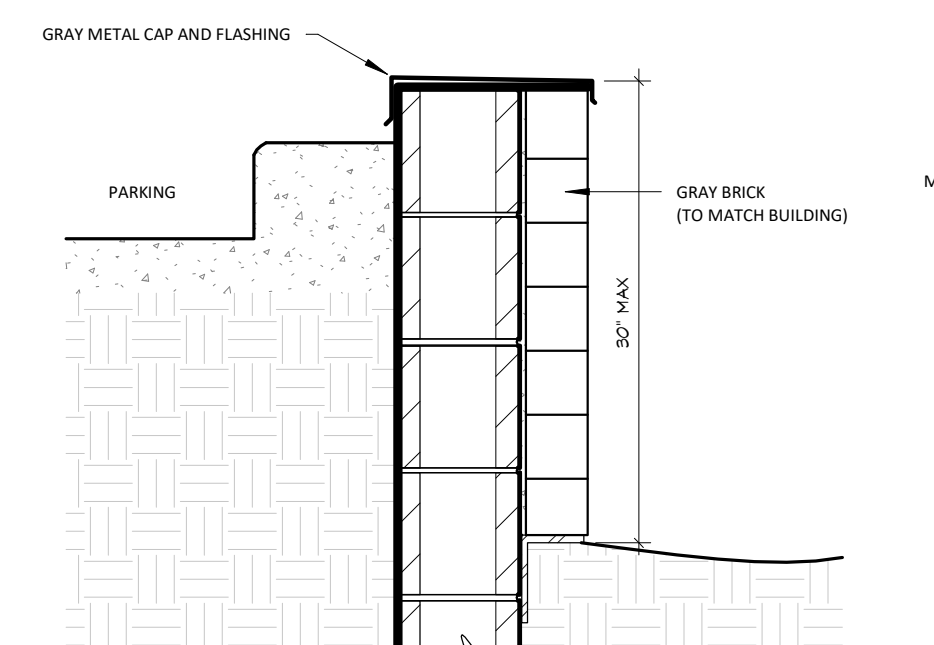
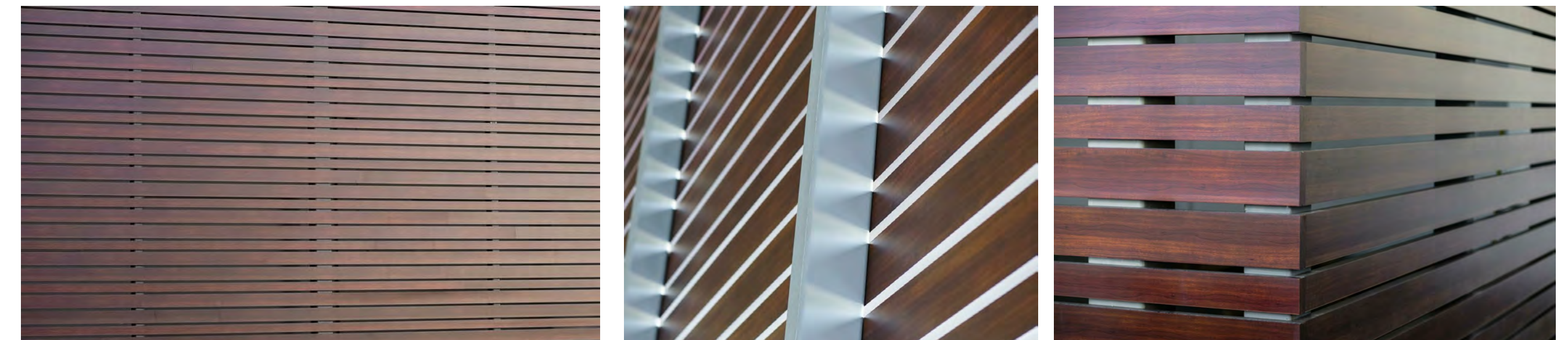
SITE DESIGN ELEMENTS

A1-3



FENCE MATERIAL

ALUMINUM WOOD-LOOK FENCE/SCREEN
(BASIS OF DESIGN: LONGBOARD, COLOR TO MATCH THE WOOD-LOOK LAP SIDING ON THE BUILDING)



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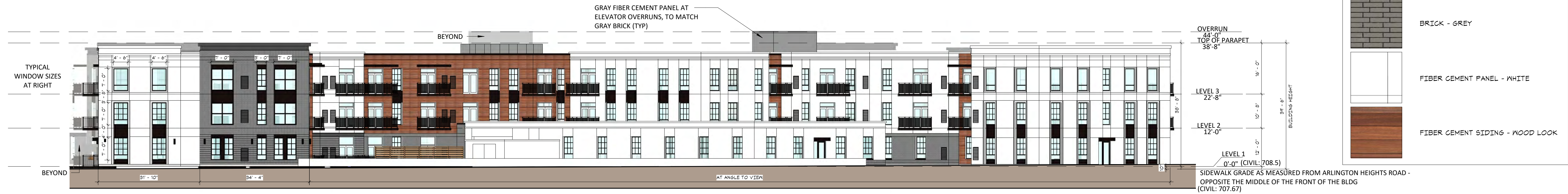
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KEY PLAN

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ELEVATIONS (OVERALL)

A1-5



1 EAST ELEVATION
A1-5 1/16" = 1'-0"




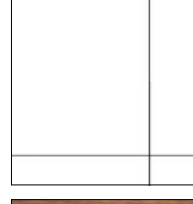

2 NORTH ELEVATION
A1-5 1/16" = 1'-0"



4 WEST ELEVATION
A1-5 1/16" = 1'-0"



3 SOUTH ELEVATION
A1-5 1/16" = 1'-0"

MATERIALS LEGEND	
	BRICK - GREY
	FIBER CEMENT PANEL - WHITE
	FIBER CEMENT SIDING - WOOD LOOK



9 NORTH - PARTIAL ELEVATION 3
A1-6 1/16" = 1'-0"



7 NORTH - PARTIAL ELEVATION 1
A1-6 1/16" = 1'-0"



6 WEST - PARTIAL ELEVATION 4
A1-6 1/16" = 1'-0"



5 WEST - PARTIAL ELEVATION 3
A1-6 1/16" = 1'-0"



4 WEST - PARTIAL ELEVATION 2
A1-6 1/16" = 1'-0"



3 WEST - PARTIAL ELEVATION 1
A1-6 1/16" = 1'-0"



2 SOUTH - PARTIAL ELEVATION 2
A1-6 1/16" = 1'-0"



1 SOUTH - PARTIAL ELEVATION 1
A1-6 1/16" = 1'-0"



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KEY PLAN

Arlington Heights Senior

ELEVATIONS (PARTIAL)

A1-6

MATERIALS LEGEND

- BRICK - GREY
- FIBER CEMENT PANEL - WHITE
- FIBER CEMENT SIDING - WOOD LOOK



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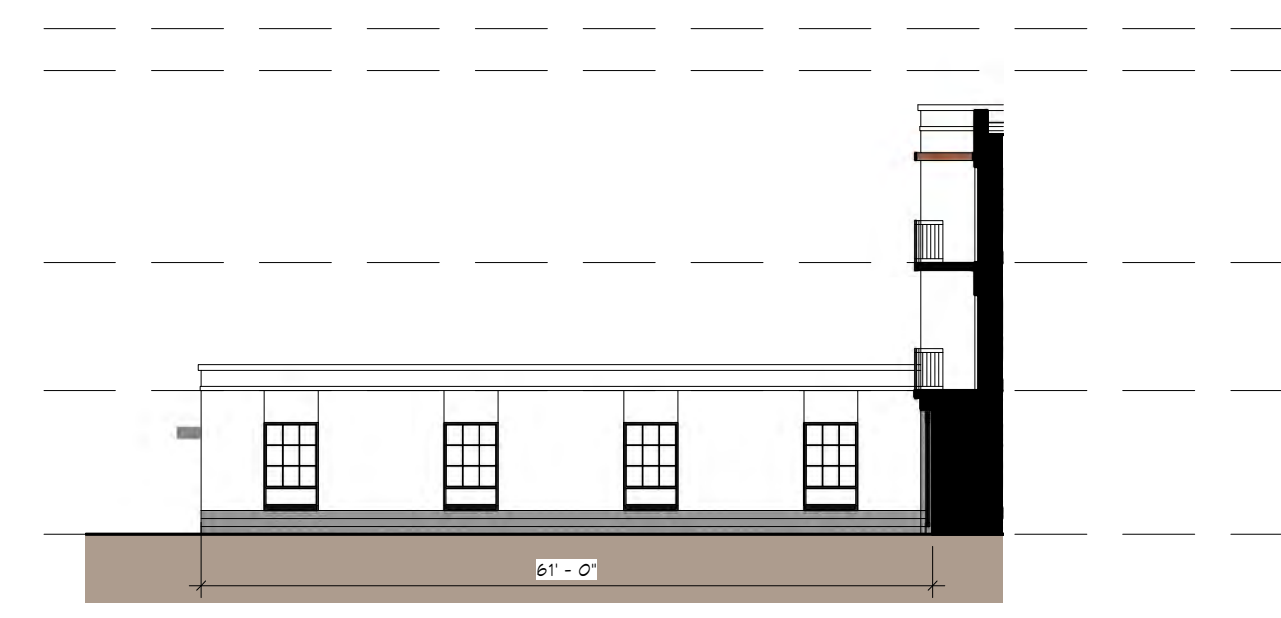
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ELEVATIONS (PARTIAL)

A1-7



8 NORTHEAST - PARTIAL ELEVATION 3
A1-7 1/16" = 1'-0"



7 NORTHEAST - PARTIAL ELEVATION 2
A1-7 1/16" = 1'-0"



6 NORTHEAST - PARTIAL ELEVATION 1
A1-7 1/16" = 1'-0"



5 EAST - PARTIAL ELEVATION 5
A1-7 1/16" = 1'-0"



4 EAST - PARTIAL ELEVATION 4
A1-7 1/16" = 1'-0"



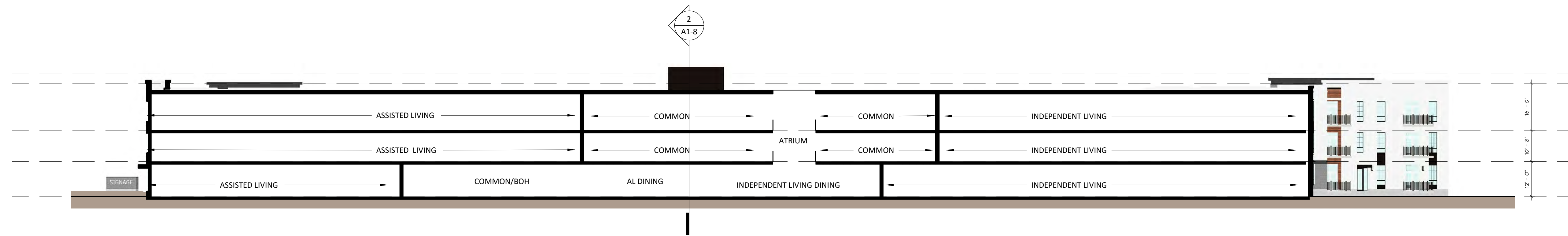
3 EAST - PARTIAL ELEVATION 3
A1-7 1/16" = 1'-0"



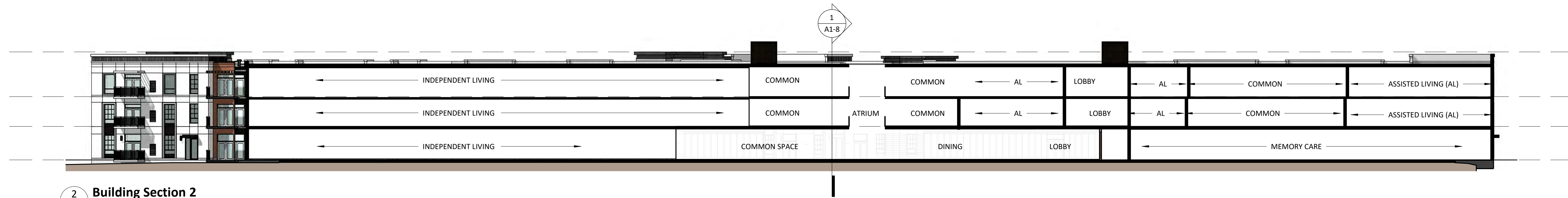
2 EAST - PARTIAL ELEVATION 2
A1-7 1/16" = 1'-0"



1 EAST - PARTIAL ELEVATION 1
A1-7 1/16" = 1'-0"



1 Building Section 1
A1-8 1" = 20'-0"



2 Building Section 2
A1-8 1" = 20'-0"



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KEY PLAN

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BUILDING SECTIONS
A1-8

BIRDSEYE VIEW AT MAIN ENTRY ALONG ARLINGTON HEIGHTS RD



PEDESTRIAN VIEW APPROACHING MAIN ENTRY



PEDESTRIAN VIEW AT FRONT PLAZA



PEDESTRIAN VIEW AT MAIN ENTRY

10/28/2020

esg

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PERSPECTIVE VIEWS

BIRDSEYE VIEW AT NORTHWEST CORNER AT ARLINGTON HEIGHTS RD AND SEEGERS RD



PEDESTRIAN VIEW AT NORTHWEST CORNER



BIRDSEYE VIEW AT SECONDARY ENTRY ALONG SEEGERS RD



PEDESTRIAN VIEW AT SECONDARY ENTRY

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PERSPECTIVE VIEWS

PEDESTRIAN VIEW AT SECONDARY (NORTH) ENTRY



BIRDSEYE VIEW AT NORTHEAST CORNER ALONG SEEGERS RD NEAR TONNE DR



PEDESTRIAN VIEW AT NORTHEAST CORNER



BIRDSEYE VIEW ALONG TONNE DR AT NORTHEAST CORNER

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PERSPECTIVE VIEWS

BIRDSEYE VIEW AT MEMORY CARE GARDEN



PEDESTRIAN VIEW IN MEMORY CARE GARDEN



BIRDSEYE VIEW ALONG TONNE DR



PEDESTRIAN VIEW ALONG TONNE DR

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PERSPECTIVE VIEWS

PEDESTRIAN VIEW IN INDEPENDENT LIVING COURTYARD



BIRDSEYE VIEW ALONG SOUTH FACADE AT SOUTHEAST CORNER



BPEDESTRIAN VIEW ALONG SOUTH FACADE AT SOUTHEAST CORNER



BIRDSEYE VIEW AT POOL TERRACE AND LAWN

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PERSPECTIVE VIEWS

PEDESTRIAN VIEW IN POOL TERRACE AND LAWN



PEDESTRIAN VIEW AT POOL TERRACE AND LAWN



BIRDSEYE VIEW AT SOUTHWEST CORNER ALONG ARLINGTON HEIGHTS RD



PEDESTRIAN VIEW AT SOUTHWEST CORNER

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PERSPECTIVE VIEWS

MATERIAL NAME

CLOSE-UP IMAGE OF MATERIAL

PRECEDENT IMAGE OF MATERIAL

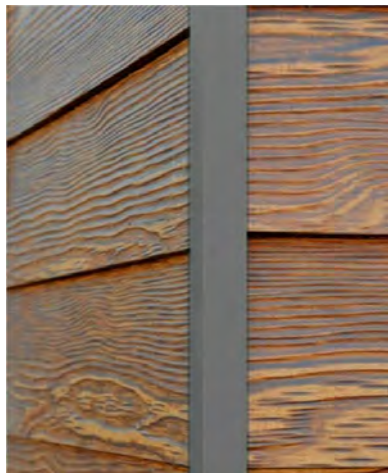
BRICK - GRAY
ENDICOTT MANGANESE
IRONSPOT VELOUR, OR EQUAL -
NORMAN



FIBER CEMENT SIDING
PANEL - WHITE
HARDIE PANEL VERTICAL
SIDING, OR EQUAL - SMOOTH -
WHITE



FIBER CEMENT LAP
SIDING -
WOOD LOOK
WOODTONE RUSTIC SERIES, OR
EQUAL - OLD CHERRY FINISH



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EXTERIOR MATERIALS

MATERIAL NAME

CLOSE-UP IMAGE OF MATERIAL

PRECEDENT IMAGE OF MATERIAL

WINDOW FRAMES

PELLA IMPERVIA SERIES, OR EQUAL (FIXED AND AWNING) - FIBERGLASS - BLACK



BALCONY DOOR + TRANSOM

PELLA IMPERVIA SLIDING PATIO DOOR, OR EQUAL - FIBERGLASS - WHITE

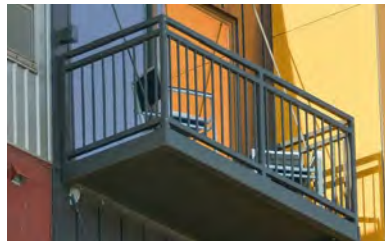
PEERLESS SWING DOOR, OR EQUAL - ALUMINUM - WHITE



BALCONY DESIGN

ALUMADECK METAL RAILINGS, OR EQUAL - BLACK

ALUMADECK METAL FASCIA/SOFFITS, OR EQUAL - BLACK FASCIA, GRAY SOFFIT



RAILING STYLE



GRAY SOFFIT, BLACK FASCIA



10/28/2020



Arlington Heights Senior

2045 S Arlington Heights Rd
Arlington Heights, IL 60005

EXTERIOR MATERIALS

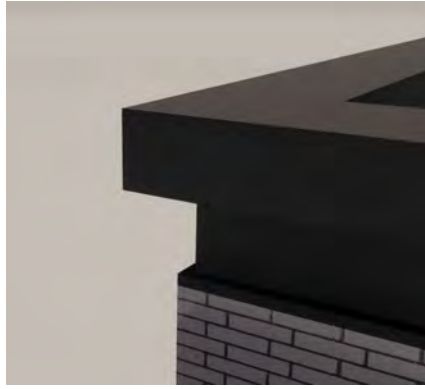
MATERIAL NAME

CLOSE-UP IMAGE OF MATERIAL

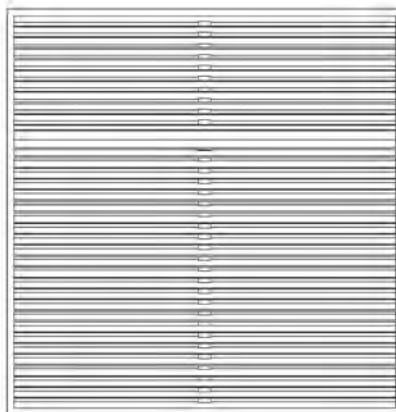
PRECEDENT IMAGE OF MATERIAL

ROOF EDGE FASCIA AND PARAPETS

SHEET METAL -
BLACK AT GRAY BRICK AND
WOOD LOOK,
WHITE AT WHITE SIDING



MECHANICAL LOUVER
MAGIC-PAK ALVRAL 1 LOUVER,
OR EQUAL - PAINTED TO MATCH
EXTERIOR MATERIAL



10/28/2020



Arlington Heights Senior

2045 S Arlington Heights Rd
Arlington Heights, IL 60005

EXTERIOR MATERIALS



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I hereby certify that this plan, specification, or report was prepared by me or under my direct supervision and that I am a duly licensed architect under the laws of the State of Illinois

Signature

Typed or Printed Name

License # Date



PLAN COMMISSION + DESIGN REVIEW APPLICATION
10/28/2020

ORIGINAL ISSUE: 10/28/2020

Table with 3 columns: No., Description, Date. Rows include VILLAGE RESUBMIT on 11/04 and 11/19.

REVISIONS

220601 PROJECT NUMBER

Author: DRAWN BY, Checker: CHECKED BY

KEY PLAN

220601 PROJECT NUMBER

Author: DRAWN BY, Checker: CHECKED BY

KEY PLAN

1510.1.1 Area Limitation: The aggregate area of penthouses and other enclosed rooftop structures shall not exceed one-third the area of the supporting roof deck.

Elevators (Chapter 30) 3002.4 Elevator Car to accommodate ambulance stretcher (per Village of Arlington Heights ch. 23): At least one elevator shall be provided for fire department emergency access to all floors.

3003.1.3 Two or more elevators. Where two or more elevators are controlled by a common operating system, all elevators shall automatically transfer to standby power within 60 seconds after failure of normal power where the standby power source is of sufficient capacity to operate all elevators at the same time.

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Construction Type Fire Resistive Ratings: (IBC Tables 601 & 602)

Table with 2 columns: Construction Type III-A, Fire Resistive Rating. Rows include Primary Structural Frame (1 hr), Exterior Bearing Walls (2 hr***), Interior Bearing Walls (1 hr), etc.

** Interior non-bearing walls separating dwelling units shall have a minimum 1/2 hour fire resistive rating. Note: Although a 30 minute rating is the minimum requirement, all corridor and demising walls shall be constructed as one hour fire resistant walls, and all penetrations shall meet this requirement.

Fire-Resistance Rating for Exterior Walls Based on Fire Separation Distance: (IBC Table 602)

Table with 2 columns: Height, Fire Resistive Rating. Rows include Less than 5', 5' to 10', 10' to 30', Greater than 30'.

Maximum Area of Exterior Wall Openings: (Table 705.8)

Table with 2 columns: Height, Maximum Area. Rows include 0' to 3', 3' to < 5', 5' to < 10', 10' to < 15', 15' to < 20', 20' and over.

Opening Protective Fire Protection Ratings: (Table 716.1)

Table with 3 columns: Type of Assembly, Req'd. Assembly Rating, Min. Opening Protection. Rows include Fire Wall and Fire Barriers, Shafts, Fire Barriers, etc.

Interior Finishes - Chapter 8

Table with 3 columns: Class, Flame Spread Index, Smoke Developed Index. Rows include A, B, C.

Interior Wall and Ceiling Finish Requirements by Occupancy - Table 803.9:

Table with 4 columns: Occupancy Group, Exit Enclosures and Passageways, Corridors, Rooms and Enclosed Spaces.

Fire Protection Systems (Chapter 9)

Group "1" (903.2.6): An automatic sprinkler system shall be provided throughout buildings with a group "1" fire area. An automatic sprinkler system installed in accordance with Section 903.3.1.2 shall be permitted in Group I-1, Condition 1 facilities.

Group A-3 Amenity Areas (903.2.1.3): An automatic sprinkler system is required.

Other areas where automatic sprinkler systems are required (As required by IFC 903.2.1.3.): Rubbish and linen chutes (903.2.11.2) Commercial cooking operations (903.2.11.5)

Additional Required Suppression Systems (Table 903.2.11.6) Atriums (Section 404.3) Group I-2 (Section 407.7)

Installation Requirements: In accordance with NFPA 13 (903.3)

Standpipe Systems: Class I standpipes required per 905.3.1 Exception 1.

Fire Alarm and Detection Systems: Required as per IBC and NFPA 72 (Section 9107)

907.2.6 Group 1: A manual fire alarm system that activates the occupant notification system in accordance with Section 907.5 shall be installed in Group 1 occupancies. An automatic smoke detection system that activates the occupant notification system in accordance with Section 907.5 shall be provided in accordance with Sections 907.2.6.1, 907.2.6.2 and 907.2.6.3.3

907.2.6.1 Group I-1: An automatic smoke detection system shall be installed in corridors, waiting areas open to corridors and habitable spaces other than sleeping units and kitchens. The system shall be activated in accordance with Section 907.5.

907.2.6.1.1 Smoke Alarms: Single- and multiple-station smoke alarms shall be installed in accordance with Section 907.2.10

907.2.6.2 Group I-2: An automatic smoke detection system shall be installed in corridors in Group I-2, Condition 1 facilities and spaces permitted to be open to the corridors by Section 407.2. The system shall be activated in accordance with Section 907.4.

907.2.10 Single- and multiple-station smoke alarms. Listed single- and multiple-station smoke alarms complying with UL 217 shall be installed in accordance with Sections 907.2.10.1 through 907.2.10.7 and NFPA 72.

907.2.10.6 - Power source. In new construction, required smoke alarms shall receive their primary power from the building wiring where such wiring is served from a commercial source and shall be equipped with battery backup. Smoke alarms with integral strobes that are not equipped with battery backup shall be connected to an emergency electrical system in accordance with Section 2707. Smoke alarms shall emit a signal when the batteries are low. Wiring shall be permanent and without a disconnecting switch other than as required for over current protection.

Carbon Monoxide Alarms: In each dwelling unit, provide one carbon monoxide alarm within 10 feet of each room lawfully used for sleeping.

Means of Egress and Occupant Load (Chapter 10). See code / exiting plans for additional information. Occupant Load (Table 1004.5) Assembled (unconcentrated) 15 s.f. net per person Institutional Areas (sleeping areas) 120 s.f. gross per person Accessory Storage, Mechanical 300 s.f. gross per person

Egress Width Corridor width (1020.2) Group I-2 in areas where required for bed movement: 96" Within a dwelling unit: 36" Elsewhere: 44"

Project Summary: The project is a new 3-story senior housing facility in Arlington Heights, IL. The program consists of independent living, assisted living, and memory care. The building will be framed in wood, except at the memory care wing and some common spaces which will be framed in steel. There are no below grade levels. Parking is surface parking. The entire building shall have an automatic sprinkler system compliant with NFPA 13. This summary is intended to illustrate highlights of requirements to be met and is not intended to illustrate all requirements to be met.

Applicable codes and regulations: 2018 IBC, 2018 Illinois Accessibility Code, Village of Arlington Heights Amendments, Illinois Department of Health

Federal Fair Housing Act Safe Harbor: HUD Fair Housing Act Design Manual

Occupancy Classification (Chapter 3): Independent Living (IL) and related spaces: I-1, Condition 2 Assisted Living (AL) and related spaces: I-1, Condition 2 Memory Care (MC) and related spaces: I-2, Condition 1 Amenity spaces: less than 50 occupants B if 50 occupants or more A

Occupancy Separation Requirements (Table 508.4): Table with 2 columns: Occupancy, Separation. Rows include I-1, I-2, S-2.

Height and Area (Chapter 5):

Building 1: Construction Type III-A Occupancy Class: I-1 Condition 2, I-2 Condition 1, A Allowable Height: 85', 65', 85' Allowable # of Stories: 4, 1, 4 OK. Building is one story of I-2 and three stories of I-1 and A. Building height is less than 65'.

Building 2: Construction Type III-A Occupancy Class: I-1, Condition 2 Allowable Height: 85' Allowable # of Stories: 4 OK. Building is three stories of I-1. Building height is less than 65'.

Building 3: Construction Type III-A Occupancy Class: I-1, Condition 2 Allowable Height: 85' Allowable # of Stories: 4 OK. Building is three stories of I-1. Building height is less than 65'.

Refer to tables below for allowable areas for each building. Firewalls as shown on code plans to the left.

Fire Walls (Table 706.4): Table with 2 columns: Occ. Group, Fire-Resistance Rating (hours). Rows include A, 1.

Vertical Continuity (706.6, Exception 4): In buildings of Types III, IV, and V construction, fire walls shall be permitted to terminate at the underside of combustible roof sheathing or decks, provided that all of the following requirements are met:

- 4.1. Roof openings are not less than 4' from the fire wall
4.2. The roof is covered with a minimum Class B roof covering
4.3. The roof sheathing or deck is constructed of fire-retardant-treated wood for a distance of 4' on both sides of the wall or the roof is protected with 5/8" Type X gypsum board directly beneath the underside of the roof sheathing or deck, supported by not less than 2" nominal ledgers attached to the sides of the roof framing members for a distance of not less than 4' on both sides of the fire wall.

Special Detailed Requirements Based on Occupancy and Use - Chapter 4

407.2 Corridors Continuity and Separation. Corridors in occupancies in Group I-2 shall be continuous to the exits and shall be separated from other areas. Waiting areas can be open to the corridor provided that the open space is protected by an automatic fire detection system installed in accordance with Section 907; and the corridors onto which the spaces open are protected by an automatic fire detection system installed in accordance with Section 907, or the smoke compartment in which the spaces are located is equipped throughout with quick response sprinklers in accordance with Section 903.3.2.

407.4.4 Group I-2 Care Suites 407.4.4.1 Exit access through care suites: exit access from all other portions of a building not classified as a care suite shall not pass through a care suite. 407.4.4.2 Separation: Care suites shall be separated from other portions of the building, including other care suites, by a smoke partition complying with Section 710.

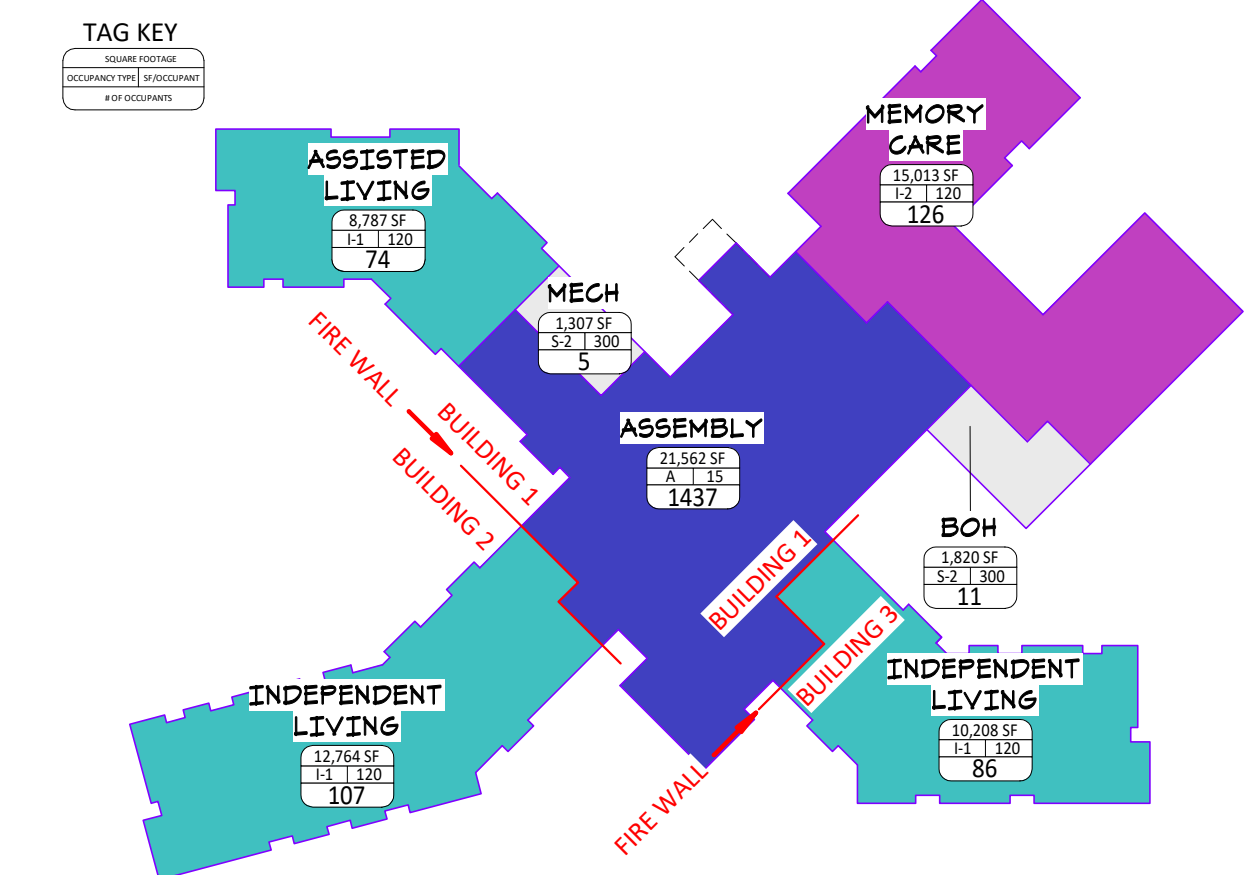
407.4.4.5 Care suites containing sleeping room areas: Sleeping rooms shall be permitted to be grouped into care suites where one of the following criteria is met: 3. An automatic smoke detection system is provided in the sleeping rooms and installed in accordance with NFPA 72.

407.4.4.5.1 Area Exception: Care suites containing sleeping rooms shall be permitted to be not greater than 10,000 sf in area where an automatic smoke detection system is provided throughout the care suite and installed in accordance with NFPA 72.

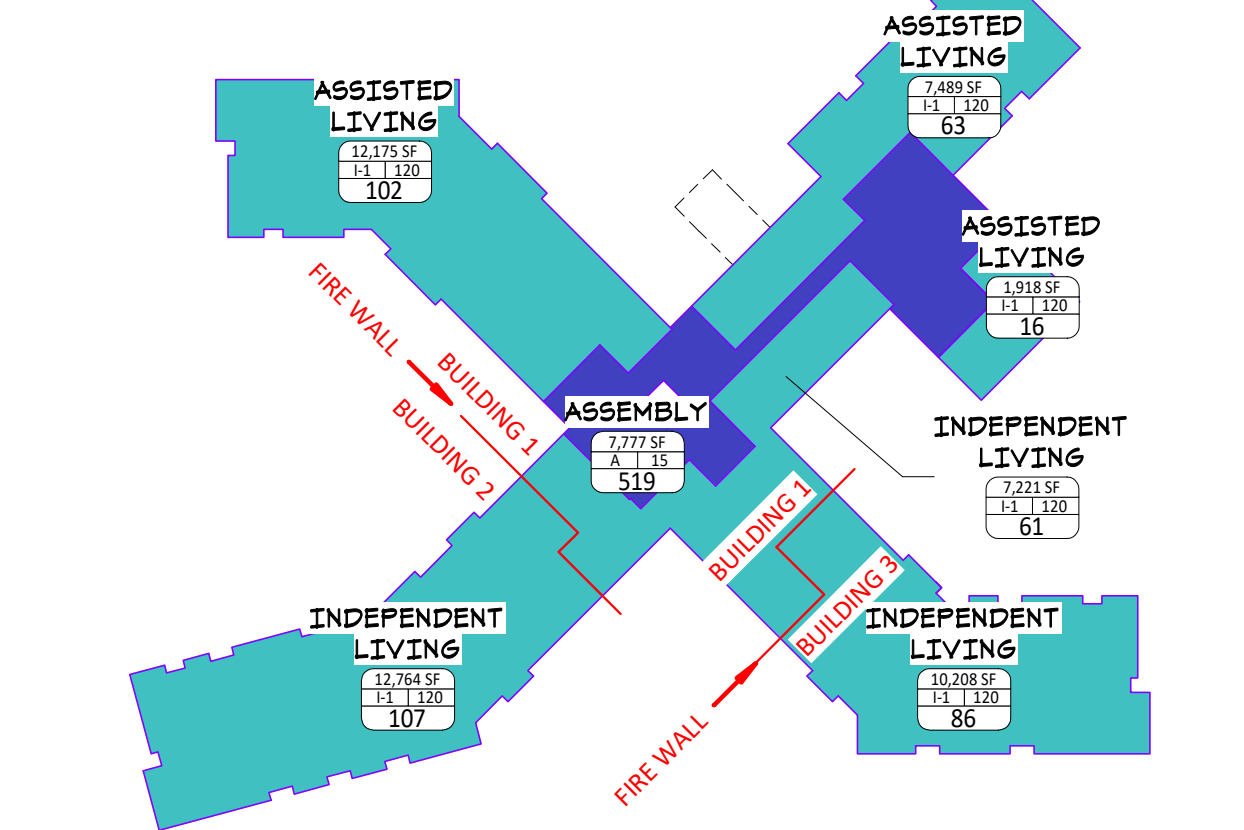
407.5 Smoke Barriers: Smoke barriers shall be provided to subdivide every story used by persons receiving care, treatment or sleeping into not fewer than two smoke compartments. Smoke barriers shall be provided to subdivide other stories with an occupant load of 50 or more persons, into not fewer than two smoke compartments. The smoke barrier shall be in accordance with Section 709.

407.5.3 / 420.6.1 Refuge Area: For I-1, refuge areas shall be provided within each smoke compartment.

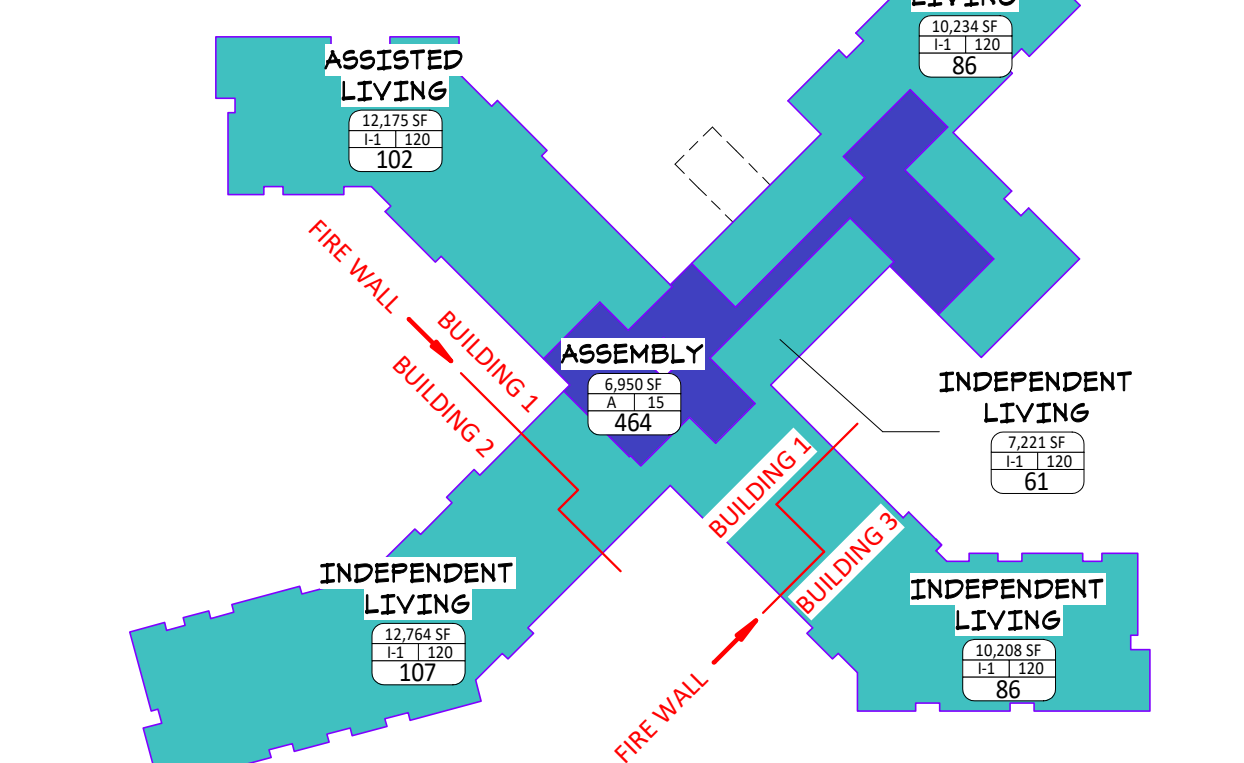
420.7 Group I-1 Assisted Living Housing Units: In Group I-1 occupancies, where a fire-resistance corridor is provided in areas where assisted living residents are housed, shared living spaces, group meeting or multipurpose therapeutic spaces open to the corridor shall be in accordance with all of the following criteria: 1. The wall and ceilings of the space are constructed as required for corridors.



1 FIRST LEVEL CODE PLAN AC1-1 1" = 80'-0"



2 SECOND LEVEL CODE PLAN AC1-1 1" = 80'-0"



3 THIRD LEVEL CODE PLAN AC1-1 1" = 80'-0"

Building Areas (Chapter 5)

Table with 4 columns: Level, Name, Occupancy Type, Area (SF), Actual SF. Rows include Level 1, 2, 3 with various room types.

Table with 4 columns: Occupancy Classification, Allowable Area Factors, Adjusted Allowable SF per Level, Actual/Allowable Ratios. Rows include I-1, I-2, S-2.

IBC 506.2.4: Aa = [A + NS x I] IBC 506.2.4: I1 = [I/P - 0.25]W/30

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