## **Development Services**

### From Concept to Construction





Phone: 503-823-7300 Email: bds@portlandoregon.gov 1900 SW 4th Ave, Portland, OR 97201 More Contact Info (http://www.portlandoregon.gov//bds/article/519984)

Status: Decision Rendered	
Appeal ID: 18772	Project Address: 3714 SW Macadam Ave
Hearing Date: 12/19/18	Appellant Name: Jeancarlo Saenz
Case No.: B-007	Appellant Phone: 9727269400
Appeal Type: Building	Plans Examiner/Inspector: Maureen McCafferty, Joe Thornton
Project Type: commercial	Stories: 8 Occupancy: R-2, M, S-2, A-3 Construction Type: Type I-A & Type III-A
Building/Business Name: E2 - Block 40	Fire Sprinklers: Yes - Thorughout
Appeal Involves: Erection of a new structure	LUR or Permit Application No.: 17-110666-LU
Plan Submitted Option: pdf [File 1] [File 2]	Proposed use: Mix-use building

Code Section	OSSC 403.3.2 Water supply to required fire pumps.		
Requires	Water supply to required fire pumps. Required fire pumps shall be supplied by connections to no fewer than two water mains located in different streets. Separate supply piping shall be provided between each connection to the water main and the pumps. Each connection and the supply piping between the connection and the pumps shall be sized to supply the flow and pressure required for the pumps to operate.		
	Exception: Two connections to the same main shall be permitted provided the main is valved such that an interruption can be isolated so that the water supply will continue without interruption through no fewer than one of the connections.		
Proposed Design	This project is an 8-story high rise apartment building.		
	The design proposed for this project includes an on-site fire tank supplied by a single connection to the water main on SW Abernethy. A fire service line is to be installed by the City of Portland Water Bureau under a separate permit. The fire pump will be supplied from the fire tank.		
	The tank is sized in accordance with the Portland Design Manual & 11.2.3.1.1 of NFPA 13 and the connection will be designed to refill the tank at a rate of at least equal to most demanding sprinkler or standpipe design requirements including hose allowances per the Portland Fire		
	Design Manual.		
	Tank size: Standpipe System:		

### Appea

	750 gpm (NFPA 14 7.10) x 30 min (NFPA 14 9.2) = 22,500 gallons
	Ordinary Group 1 Hazzard (parking):
	0.15 gpm/sf x 1,950 sfg = 293 gpm + 250 gpm inside hose = 543 gpm x 30 min = 16,290 gal
	Fire tank to be sized to accommodate 22,500 gal usable water. Tank provided = 3,008 cubic
	feet/7.48 = 22,500 gal usable water
	Tank refill rate will be 750 gpm.
Reason for alternative	The fire pump is supplied from the fire water tank. The tank is sized to accommodate the largest of
	the sprinkler system or standpipe demand for the duration specified in NFPA 13 and/or the
	Portland Fire Design Manual. The tank is automatically refilled at the maximum of the sprinkler
	system or standpipe requirements.
	This arrangement provides redundant water supplies from the city main (primary supply) and the
	fire tank (secondary supply).
	A single connection to a public water source has been allowed by Portland Fire when it is sized
	per the Portland Fire Design Manual. It would provide sufficient redundancy and protection for
	buildings less than 420' in height. This Appeal is similar in intent as to past granted appeals.
	See 18386 for reference.
Appeal item 2	
Code Section	2014 OSSC, Table 2902.1 Minimum Number of Required Plumbing Fixtures; 2014 OSSC, 2902.2
	Separate Facilities; 2014 OSSC, 2902.3 Employee and Public Toilet Facilities
Requires	From Table 2902.1 "Minimum Number of Required Plumbing Fixtures:"
	R-2 occupancy apartment houses are required to have at least one water closet, one lavatory, ar
	one bathtub/shower per dwelling unit.
	From Section 2092.2 "Separate Facilities:"
	Separate facilities shall not be required in structures or tenant spaces with a total occupant load,
	including both employees and customers, or 15 or less.
	From Section 2902.3 "Employee and public toilet facilities."
	Customers, patrons, and visitors shall be provided with public toilet facilities in structures and
	tenant spaces intended for public utilization. The number of plumbing fixtures located within the required toilet facilities shall be provided in accordance with Section 2902.1 for all users.
	Employees shall be provided with toilet facilities in all occupancies. Employee toilet facilities shall
	either be separate or combined employee and public toilet facilities.
Proposed Design	The proposed project is an 8-story mixed use multifamily building. There are two separate
	programmatic areas within the building: retail and residential. Ground floor retail spaces along SV
	Moody avenue are M occupancy, and plumbing fixtures required to accommodate these retail
	spaces will be constructed as part of their future tenant improvement permit(s). The remainder of
	the building primarily consists of R-2 occupancy apartments and supporting functions, as well
	amenity spaces dedicated to residents. These include a B occupancy residential lobby and leasir
	office at Ground floor, and an A-3 occupancy co-shared workspace and fitness at Unit level 1 and
	an A-3 occupancy club room and roof terrace at Unit Level 6.
	Public access to the ground floor lobby will be limited to residents, prospective residents, and
	property management staff, and the exterior doors will feature security card readers A single
	property management staff, and the exterior doors will feature security card readers. A single unisex toilet room will be provided at the lobby and will serve as a convenience toilet room for

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Co-shared workspace and fitness have access to two toilet rooms, which provide sufficient plumbing fixtures for those occupancies on unit level 1.

The unit level 6 club room and the adjacent roof terrace are intended to be used by residents and their guests and will not be accessible to the public. The amenity room measures under 749 square feet, and the roof terrace measures 1,242 square feet. One single unisex toilet room will be located adjacent the amenity room and terrace.

Each apartment within the building includes at least one dedicated toilet room, so residents always have access to private restrooms within their building.

See attached Exhibits.

**Reason for alternative** It is assumed that the residents of the apartments will wait to use the toilet facilities in their own apartments. Therefore, residential areas such as the entrance lobby, any vestibules providing stair and elevator access, the mail room, the trash rooms, any tenant storage rooms, etc., would not be considered separate occupancies which would require public plumbing facilities. Similarly, since the unit level 6 club room and roof terrace are only to be used by residents and potential guests, those areas would not require public plumbing facilities. Given that every apartment includes at least one dedicated toilet room, public access to the building is limited, and convenience toilet rooms are provided at the lobby and resident-only amenity spaces, we believe the proposed design has met the intended code-required fixture count.

Please see granted precedent appeals 14846, 15856, and 16285.

#### Appeal item 3

Code Section	2014 OSSC, 913.2.1 Protection of Fire Pump Rooms
Requires	Fire pumps shall be located in rooms that are separated from all other areas of the building by
	2-hour fire barriers constructed in accordance with Section 707 or 2-hour horizontal assemblies
	constructed in accordance with Section 711, or both.
	Exceptions:
	In other than high-rise buildings, separation by 1-hour fire barriers constructed in accordance with
	Section 707 or 1-hour horizontal assemblies constructed in accordance with Section 711, or both,
	shall be permitted in buildings equipped throughout with an automatic sprinkler system in
	accordance with Section 903.3.1.1 or 903.3.1.2.
	Separation is not required for fire pumps physically separated in accordance with NFPA 20.
Proposed Design	The proposed design is an 8-story mixed-use high-rise multi-family building, with 5 levels of Type
	III-A construction over 3 level of Type I-A construction at grade. There is 1 level of below-grade
	parking, also of Type I-A construction. The building will be equipped throughout with an automatic
	sprinkler system. The fire pump room is located at Garage level 2, at the northwest corner of the parking garage.
	The proposed design does not provide a continuous rated direct connection to an interior exit stairway.
	The fire pump room enclosure is 3-hour rated, and the nearest exit stair enclosure is 2-hour rated.
	The path of travel between the fire pump room and the enclosed exit stairway measures 18 feet ir
	length and is sprinklered per NFPA 13. The path is unenclosed and is along a corridor in the
	garage that is isolated from car traffic.
	See attached Exhibits.

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**Reason for alternative** The fire pump room will be provided with more protection than required by code. Since the building is sprinklered and a high-rise, the pump room is only required to be 2-hour rated, but the proposed design provides a 3-hour pump room enclosure. Access from the pump room to the exterior is through a 2-hour rated stair enclosure, and the path of travel between the stair and the pump room is direct and clearly visible. This path is within the Type I-A concrete parking garage, and measures 18 feet from door to door. Clear signage will be provided at the pump room and the stair enclosure. We believe the proposed design provides equivalent level of life safety as is required by code.

Please see granted precedent appeal 18667 and 14716.

#### Appeal item 4

Requires

713.13.1 Refuse, recycling and laundry chute enclosures. A shaft enclosure containing a refuse, recycling, or laundry chute shall not be used for any other purpose and shall be enclosed in accordance with Section 713.4. Openings into the shaft, including those from access rooms and termination rooms shall be protected in accordance with this section and Section 716. Openings into chutes shall not be located in corridors. Doors shall be self- or automatic-closing upon the actuation of a smoke detector in accordance with Section 716.5.9.3, except that heat-activated closing devices shall be permitted between the shaft and the termination room.

713.13.3 Refuse, recycling and laundry chute access rooms. Access openings for refuse, recycling and laundry chutes shall be located in rooms or compartments enclosed by not less than 1-hour fire barriers constructed in accordance with Section 707 or horizontal assemblies constructed in accordance with Section 711, or both. Openings into the access rooms shall be protected by opening protectives having a fire protection rating of not less than <sup>3</sup>/<sub>4</sub> hour. Doors shall be self- or automatic-closing upon the detection of smoke in accordance with Section 716.5.9.3.

## Proposed Design The proposed design shall meet the requirements of Section 713.13.3, except the space in front of the chute is not a room.

The proposed design will provide:

• Two-hour fire-resistance-rated trash chute.

• Two-hour fire-resistance-rated compartment in front of the fire-rated chute, including a 90-minute fire-rated door.

• Automatic closer for the fire-rated compartment door, on a 15-second minimum and 30-second maximum delay.

• Automatic sprinkler within the fire-rated compartment; sprinkler head to be placed in the compartment between the corridor door and the chute.

• Trash chute hopper door can be in fully open position without interference from 90-minute firerated door.

See attached Exhibits.

Reason for alternative The proposed design is requested due to the space and to maximize efficiency. The proposed design meets the intents of Section 713.13 by enclosing the entire shaft and room with a continuous 2-hour shaft. Fire sprinkler coverage is provided within the compartment providing further safety and ease of access is improved for accessibility utilizing a forward approach and a delay on the automatic closer that allows the trash chute to be accessed without the user having to hold it open allowing a disabled person to deposit trash with also holding a door open or passing through to an additional room. This configuration is compliant with ANSI A117.1 additionally the

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### Appeals |

	hopper is to be spring loaded and the door after being held open shall have an automatic closer ensuring the fire rated door is closed when the chute is not in use.
	Please see granted precedent appeal 16722 and 15965.
ppeal item 5	
Code Section	2014 OSSC, 3004.1 Hoistway venting, 2015 IBC 3006.2 Hoistway opening protection required ar 3006.3 Hoistway opening protection.
Requires	2014 OSSC, 3004.1 Hoistway of elevators and dumb-waiters with a hoistway of 25 feet or more, as measured from the bottom floor landing to the underside of the Hoistway ceiling, shall be provided with a means for venting smoke and hot gases to the outer air in case of fire.
	Exception: Venting is not required for the following elevators and hoistways:
	In occupancies of other than Group R-1, R-2, I-I, I-2 and similar occupancies with overnight sleeping units, where the building is equipped throughout with an approved automatic sprinkler system installed in accordance with section 903.3.1.1 or 903.3.1.2.
	2015 IBC 3006.2 Elevator hoistway door opening shall be protected in accordance with section 3006.3 where an elevator hoistway connects more than three stories, is required to be enclosed within a shaft enclosure in accordance with section 712.1.1 and any of the following conditions apply:
	The building is not protected throughout with an automatic sprinkler system in accordance with section 903.3.1.1 or 903.3.1.2. The building contains a group I-1 condition 2 occupancy.
	The building contains a group I-2 occupancy. The building contains a group I-3 occupancy. The building is a high rise and the elevator hoistway is more than 75 feet in height. The height of the hoistway shall be measured from the lowest floor to the highest floor of the floors served by th
	hoistway. 2015 IBC 3006.3 Where section 3006.2 requires protection of the elevator hoistway door opening the protection shall be provided by one of the following:
	An enclosed elevator lobby shall be provided at each floor to separate the elevator hoistway shaf enclosure doors from each floor by fire partitions in accordance with section 708. In addition, doo protecting openings in the elevator lobby enclosure walls shall comply with section 716.5.3 as required for corridor walls. Penetrations of the enclosed elevator lobby by ducts and air transfer openings shall be protected as required for corridor in accordance with section 717.5.4.1 An enclosed elevator lobby shall be provided at each floor to separate the elevator hoistway shaf enclosure doors from each floor by smoke partitions in accordance with section 710 where the building is equipped throughout with an automatic sprinkler system installed in accordance with section 903.3.1.1 or 903.3.1.2. In addition, doors protecting openings in the smoke partition shall comply with sections 710.5.2.2, 710.5.2.3 and 716.5.9. Penetrations of the enclosed elevator lobby by ducts and air transfer openings shall be protected as required for corridor in accordance with section 717.5.4.1
	Additional door shall be provided at each elevator hoistway door opening in accordance with section 3002.6. Such door shall comply with the smoke and draft control door assembly requirements in section 716.5.3.1 when tested in accordance with UL 1784 without an artificial bottom seal.
	The elevator hoistway shall be pressurized in accordance with section 909.21.

**Proposed Design** The proposed design eliminates the requirement of venting and pressurization in the elevator hoistway by adopting the changes in the 2015 IBC section 3006.2 and 3006.3. The 2015 IBC

	eliminates section 3004.1 of the 2014 OSSC by introducing a new section on elevator lobbies and hoistway opening protection. Because this building falls under the high rise definition, section
	3006.2, condition #5 requires protection of the hoistway opening in accordance with section 3006.3.
	To provide protection of the elevator hoistway, we proposed to use item #3 of section 3006.3. All elevators in this project will have a smoke and draft control door in front of the elevator door opening that meets the requirements of section 3002.4, the "Air leakage test of doors assemblies" in accordance with UL 1784 and the leakage rate for smoke and draft controls doors in section 716.5.3.1. The smoke control doors will also be connected to the fire alarm system and nearby smoke detectors sensors so that they can be closed upon activation of any of these systems.
	See attached Exhibits for door locations.
Reason for alternative	The change in code requirements from the 2014 OSSC to the 2015 IBC addresses the concerns of elevator hoistway opening protection by introducing new requirements that deal with smoke spread in elevator buildings.
	Elevator shafts are one of the largest vertical shafts in a multistory building. Hoistways have the potential for accumulating and spreading smoke and gases from a fire to other stories in a building. The chimney or stack effect helps with the upward spread of the products of combustion. The intention of these new previsions is to prevent the infiltration of smoke into the hoistway enclosure.
	Since this building does not required fire service access elevators and does not provide occupant evacuation elevators either, by provided doors that meet the requirements of item #3 of section 3006.3 in front of the elevator hoistway opening, protection provided should be equal or greater as it was required by section 3004.1 of the 2014 OSSC.
	By also selection item #3, the requirement for pressurization of the elevator hoistway is also eliminated, since that option is not selected as protection for the hoistway opening.
ppeal item 6	
Code Section	403 High rise buildings, Section 403.2 to 403.6
Requires	<ul> <li>Section 403 provides additional requirements for high-rise development.</li> <li>Section 403.2 specifies additional construction requirements, as well as some requirement reductions, applicable to constructing a high-rise building.</li> </ul>
	• Section 403.3 states the basic requirements for all high-rise buildings that an automatic sprinkler system be provided throughout the building. Specific standards unique to high-rise development are also provided.
	<ul> <li>Section 403.4 specifies the various emergency detection and response systems that are required in a high-rise building.</li> <li>Section 403.5 provides additional means of egress system requirements for the occupants of a</li> </ul>
	<ul> <li>Section 403.5 provides additional means of egress system requirements for the occupants of a high-rise building.</li> <li>Section 403.6 provides elevator-related requirements for these structures.</li> </ul>
	The provisions are applicable to all buildings when the highest occupied floor is more than 75 feet above the lowest level of fire department vehicle access.
Proposed Design	The proposed building is an 8-story (5 over 3) apartment building that has an occupied floor at 79' $-8$ <sup>3</sup> / <sub>4</sub> " from the lowest level of fire department access. For this reason, this building follows under the classification of high-rise per section 403 of the 2014 OSSC. For the design of this high-rise, we proposed the following conditions:

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Section 403.2 Construction

• Reductions listed in section 403.2.1.1 and 403.2.1.2 will not be used, even thou floor control valves will be installed per section 903.4.3

Section 403.3 Automatic sprinkler system

• Fully comply with this section with the adoption of Appeal items # 1 (403.3.2) and #4 (913.2.1) above.

Section 403.4 Emergency systems

• 403.4.1 Smoke detection will be provided per the requirements of 907.2.13.1 except for the connection to an emergency voice/alarm communication system.

• 403.4.2 Fire alarm system will be provided per the requirements of section 907.2.13 except for the connection to an emergency voice/alarm communication system.

• 403.4.3 Standpipe system will be provided per requirements of section 907.5.2.2.

• 403.4.4 Emergency voice/alarm communication system will not be provided.

• 403.4.5 Emergency responder radio coverage will be provided per the attached State of Oregon Form OSSC 915 Emergency Responder Radio Coverage (ERRC) Checklist.

• 403.4.6 Fire command center will be provided per section 911 with the following modifications to section 911.5 as items not provided:

The emergency voice/alarm communication system control unit.

Emergency and standby power status indicators.

Generator supervision devices, manual start and transfer features.

Elevator emergency or standby power selector switch(es), where emergency or standby power is provided.

• 403.4.7 Smoke removal will be provided per the requirements of this section.

• 403.4.8 Standby power will be provided per the requirements of this section.

• 403.4.9 Emergency power systems will be provided per the requirements of this sections as applicable.

Section 403.5 Means of egress and evacuation

• Fully comply with all the requirements of this section that are applicable.

Section 403.6 Elevators

• Fully comply with all the requirements of this section that are applicable.

• Elevator #1 will serve as the accessible means of egress.

See attached Exhibits for references to these sections.

 Reason for alternative
 The proposed changes to the high-rise code are in response to the unique conditions of this building. Site grading plays a good roll in the classification of this building as a high-rise since the site drops 17 feet from SW Macadam to SW Moody, which raises to highest occupied floor level above the 75 feet high-rise code threshold.

The current configuration exceeds the max height by 4'-8 ¾" on the top floor of the building, which in our opinion does not introduce a higher risk on smoke control or evacuation times for the following reasons:

• The floor area of the top floor is 9,782 s.f. (not including stairs/elevators/shafts), which represents an occupant load of 49 for the entire level. This does not add any significant load to the provided stairs, since the number of occupants is very low.

• Evacuation times for the floor above is not a concern since the occupant load is very limited and stair #2 travels 61 ft to an exit on grade, which is less than usual for non-high-rise buildings. Stair #1 will travel 79 ft to an exit on grade but egress on that side of the building could also be assisted by elevator #1, which will be connected to standby power.

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• Provided a relatively simple layout for the top floor where exits are readily visible from any part of the corridor.

• No other occupancies besides R-2 are above the 75ft high-rise threshold, which provides an occupancy that can be familiar with the building layout on an emergency.

• Total building height does not exceed the limits for Type III-A construction.

• No reductions in fire ratings are used per section 403.2.

• The exterior walls of the Type III construction are 2-hour rated as per code but also keep the use of FRT wood on the framing. The code guide type III construction – OSSC/6/#4 Non-Fire-Retardant-Treated Wood Framing within exterior walls of R-2 occupancy buildings of type III constructions will not be used.

• Due to the limited height above 75ft and grade conditions, the stack effects risk is not greater than it would be in a non-high-rise building. If the site was flat, the added height above the 75 ft line could be reduced by adjusting the ground floor, which means that all the stories above will still be the same. Shafts and enclosures would functions in the same way and should serve the same amount of stories.

With the adoption of the proposed high-rise code measures listed above, we feel the provisions for Life and Safety in this building are equivalent or superior to the intention of the code for structures of this type.

Similar appeals have been granted for buildings that go over the 75 ft high-rise with similar conditions as the proposed building, please reference appeals 2120, 10670, and 14731.

#### APPEAL DECISION

1. Single connection to water main with onsite water supply tank in lieu of connection to two water mains: Granted as proposed.

Note: The proposed capacity of the secondary on-site water supply is subject to review under the fire permit submittal.

2. Reduction in minimum required plumbing fixtures: Granted as proposed.

3. Omission of 2 hour fire rated passageway connecting fire pump room to exit: Granted as proposed.

4. Trash chute access compartment at corridor: Granted provided:

a.) The corridor door is a 45 minute rated self-closing door with minimum 15 and maximum 30 second time delay closer,

b.) A sprinkler head is installed in the compartment between the corridor door and the chute

c.) Sprinkler system is to be installed under separate permit from Fire Marshal's Office.

d.) The compartment depth is sized to allow the corridor door to latch when the trash chute hopper is fully open.

5. Omission of hoistway venting per 2015 IBC: Granted as proposed.

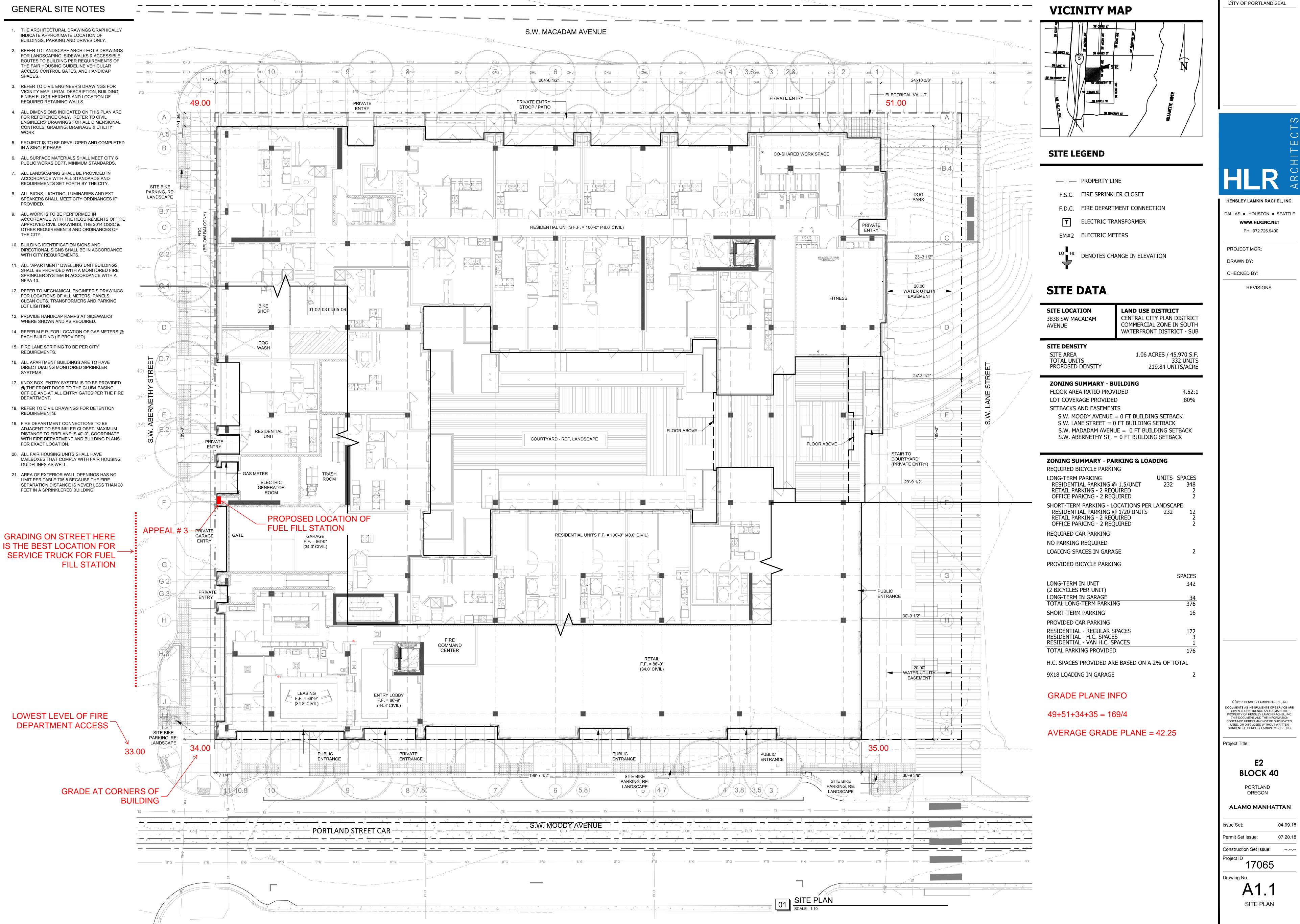
## 6. Partial omission of high rise requirements: Denied. Proposal does not provide equivalent Life Safety protection. Appellant may contact John Butler (503 823-7339) with questions.

For the item granted, the Administrative Appeal Board finds that the information submitted by the appellant demonstrates that the approved modifications or alternate methods are consistent with the intent of the code; do not lessen health, safety, accessibility, life, fire safety or structural requirements; and that special conditions unique to this project make strict application of those code sections impractical.

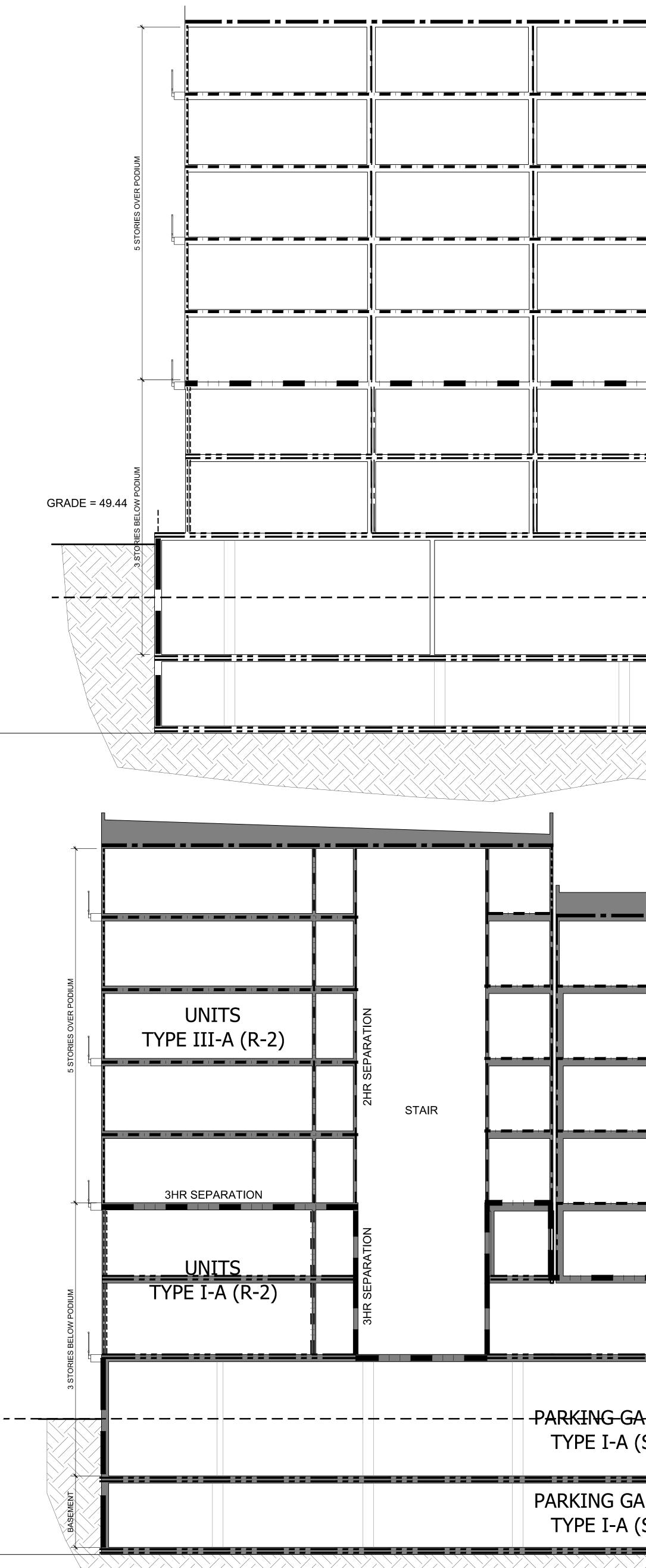
Pursuant to City Code Chapter 24.10, you may appeal this decision to the Building Code Board of Appeal within 180 calendar days of the date this decision is published. For information on the appeals process and costs,

including forms, appeal fee, payment methods and fee waivers, go to www.portlandoregon.gov/bds/appealsinfo, call (503) 823-7300 or come in to the Development Services Center.

- 1. THE ARCHITECTURAL DRAWINGS GRAPHICALLY INDICATE APPROXIMATE LOCATION OF BUILDINGS, PARKING AND DRIVES ONLY.
- 2. REFER TO LANDSCAPE ARCHITECT'S DRAWINGS FOR LANDSCAPING, SIDEWALKS & ACCESSIBLE ROUTES TO BUILDING PER REQUIREMENTS OF THE FAIR HOUSING GUIDELINE VEHICULAR ACCESS CONTROL GATES, AND HANDICAP SPACES.
- 3. REFER TO CIVIL ENGINEER'S DRAWINGS FOR VICINITY MAP, LEGAL DESCRIPTION, BUILDING FINISH FLOOR HEIGHTS AND LOCATION OF REQUIRED RETAINING WALLS.
- 4. ALL DIMENSIONS INDICATED ON THIS PLAN ARE FOR REFERENCE ONLY. REFER TO CIVIL ENGINEERS' DRAWINGS FOR ALL DIMENSIONAL CONTROLS, GRADING, DRAINAGE & UTILITY WORK.
- 5. PROJECT IS TO BE DEVELOPED AND COMPLETED IN A SINGLE PHASE.
- 6. ALL SURFACE MATERIALS SHALL MEET CITY S PUBLIC WORKS DEPT. MINIMUM STANDARDS.
- 7. ALL LANDSCAPING SHALL BE PROVIDED IN ACCORDANCE WITH ALL STANDARDS AND REQUIREMENTS SET FORTH BY THE CITY.
- 8. ALL SIGNS, LIGHTING, LUMINARIES AND EXT. SPEAKERS SHALL MEET CITY ORDINANCES IF PROVIDED.
- ACCORDANCE WITH THE REQUIREMENTS OF THE APPROVED CIVIL DRAWINGS, THE 2014 OSSC & OTHER REQUIREMENTS AND ORDINANCES OF THE CITY.
- 10. BUILDING IDENTIFICATION SIGNS AND DIRECTIONAL SIGNS SHALL BE IN ACCORDANCE WITH CITY REQUIREMENTS.
- 11. ALL "APARTMENT" DWELLING UNIT BUILDINGS SHALL BE PROVIDED WITH A MONITORED FIRE SPRINKLER SYSTEM IN ACCORDANCE WITH A NFPA 13.
- 12. REFER TO MECHANICAL ENGINEER'S DRAWINGS FOR LOCATIONS OF ALL METERS, PANELS, CLEAN OUTS, TRANSFORMERS AND PARKING LOT LIGHTING.
- 13. PROVIDE HANDICAP RAMPS AT SIDEWALKS WHERE SHOWN AND AS REQUIRED.
- 14. REFER M.E.P. FOR LOCATION OF GAS METERS @ EACH BUILDING (IF PROVIDED).
- 15. FIRE LANE STRIPING TO BE PER CITY REQUIREMENTS.
- 16. ALL APARTMENT BUILDINGS ARE TO HAVE DIRECT DIALING MONITORED SPRINKLER SYSTEMS.
- 17. KNOX BOX ENTRY SYSTEM IS TO BE PROVIDED @ THE FRONT DOOR TO THE CLUB/LEASING OFFICE AND AT ALL ENTRY GATES PER THE FIRE DEPARTMENT.
- 18. REFER TO CIVIL DRAWINGS FOR DETENTION REQUIREMENTS.
- ADJACENT TO SPRINKLER CLOSET. MAXIMUM DISTANCE TO FIRELANE IS 40'-0". COORDINATE WITH FIRE DEPARTMENT AND BUILDING PLANS FOR EXACT LOCATION.
- 20. ALL FAIR HOUSING UNITS SHALL HAVE MAILBOXES THAT COMPLY WITH FAIR HOUSING GUIDELINES AS WELL.
- 21. AREA OF EXTERIOR WALL OPENINGS HAS NO LIMIT PER TABLE 705.8 BECAUSE THE FIRE SEPARATION DISTANCE IS NEVER LESS THAN 20 FEET IN A SPRINKLERED BUILDING.

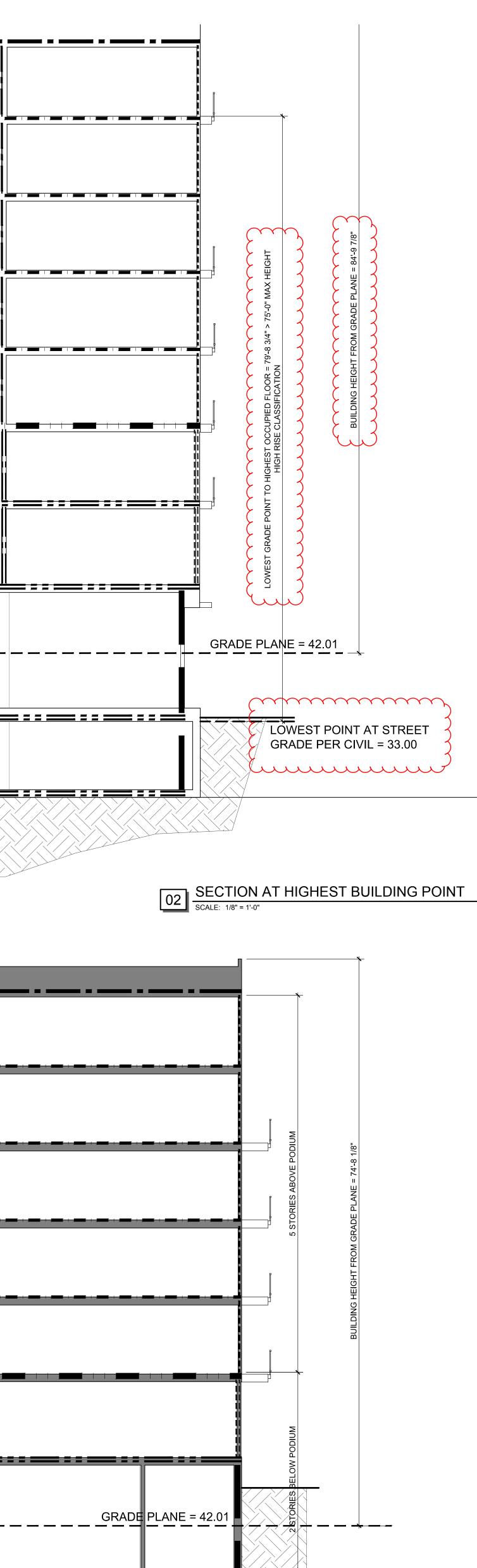


	PROPERTY LI	NE	
	FIRE SPRINKL		
	FIRE DEPARTMENT CONNECTION		
T	ELECTRIC TRA		
EM#2	ELECTRIC ME	TERS	
	DENOTES CHA	ANGE IN ELEVATION	
SITE	DATA		
SITE LOCAT 3838 SW MA AVENUE	-	LAND USE DISTRICT CENTRAL CITY PLAN DIS COMMERCIAL ZONE IN S WATERFRONT DISTRICT	
SITE DENS	ĨŢŶ		
SITE AREA TOTAL UNI		1.06 ACRES / 45,9 332	
PROPOSED	DENSITY	219.84 UNITS	
S.W. MC S.W. LAI S.W. MA	NE STREET = 0 DADAM AVENU	TS = 0 FT BUILDING SETBACK ) FT BUILDING SETBACK JE = 0 FT BUILDING SETB = 0 FT BUILDING SETBACK	
		RKING & LOADING	
LONG-TERM RESIDENT	ICYCLE PARKIN PARKING IAL PARKING @ RKING - 2 REQI	UNITS SI 1.5/UNIT 232	
OFFICE PA	RKING - 2 REQ	UIRED DCATIONS PER LANDSCAPE	
RESIDENT	A PARKING - LC IAL PARKING @ RKING - 2 REQI RKING - 2 REQI	0 1/20 UNITS 232 UIRED	
REQUIRED C			
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PROVIDED B	ICYCLE PARKIN	٧G	
		SI	
LONG-TERM (2 BICYCLES	PER UNIT)		
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SHORT-TERM			
PROVIDED C RESIDENTIA	ar parking L - regular si	PACES	
RESIDENTIA	L - H.C. SPACES L - VAN H.C. SP	S	
TOTAL PARK	ING PROVIDED	)	
	_	E BASED ON A 2% OF TOT	
9X18 LOADI	NG IN GARAGE		



	TS		
	TS A (R-2)		
		3HR SEPARATION	
UNI 		2HR SEPARATION	
		2HR SEPARATION	
––––PARKING GARAGE / TYPE I-/		2HR SEPARATION	
PARKING ( TYPE I-A			

		UNITS TYPE III-A (R-2)			
		3HR SEPARATION			
	UNITS TYPE I-A (	R-2)			
GARAGE				GRADE P	PLANE = 42.01
GARAGE (S-2)					



	LEGEND	V.10.01.1
EXIT	BUILDING EXIT	
	EXIT ACCESS TRAVEL DISTANCE PER TABLE 1016.2	
🖧 EXIT	ACCESIBLE BUILDING EXIT	
	AREA OF REFUGE 30"X48" MIN.	
	EXTERIOR AREA OF RESCUE	
	ASSISTANCE	
EXIT TYPES		V.10.01.1
'A'	VERTICAL EXIT	
'B'	HORIZONTAL EXIT	
'C'	DIRECT EXIT AT GRADE	
'D'	COURTYARD EXIT	
'E'	TRANSFER STAIR	
'F'	ACCESSIBLE ELEVATOR EXIT	
'G'	EXIT TO PROTECTED CORRIDOR	
NOTE: 1. REFER TO REQUIREN	COURTYARD EXIT AREA TABULATIONS FO	R EXITING
VERTICAL SEP	ARATIONS (TYPE I-A) 3 HR RATED EXTERIOR WALL - RATING	PER SECTION
	721.1.1 3 HR RATED FIRE BARRIER STAIR SHAI	
	<ul> <li>CMU - U.L. #U904</li> <li>CONCRETE - RATING PER SECTION</li> </ul>	
	2 HR RATED FIRE BARRIER STAIR / ELI	
	<ul> <li>SHAFT / TRASH / ELECTRICAL ROOMS</li> <li>CMU - U.L. #U905</li> </ul>	
	<ul> <li>CONCRETE - RATING PER SECTION</li> <li>MTL. STUDS - GA FILE NO. WP1522</li> </ul>	
======	<ul> <li>1 HR RATED EXTERIOR WALL - U.L. #U4</li> <li>1 HR RATED TENANT SEPARATION FIRE</li> </ul>	
	GA FILE NO. WP5006	-
; ;	1 HR RATED EXIT ACCESS CORRIDORS PARTITION - GA FILE NO. WP1522	FIRE
	1 HR RATED EXIT ACCESS CORRIDORS PARTITION AND INTERIOR WALLS - U.L.	
HORIZONTAL S	SEPARATIONS (TYPE I-A)	
	3 HR RATED HORIZONTAL SEPARATION IBC 2009 SECTION 721.2.2.1	I - RATING PEF
	2 HR RATED HORIZONTAL SEPARATION	I - RATING PEF
	IBC 2009 SECTION 721.2.2.1	
VERTICAL SEP	ARATIONS (TYPE III-A)  2 HR RATED FIRE BARRIER STAIR / ELI	EVATOR / VENT
	SHAFT / TRASH - U.L. #U301	
	<ul> <li>2 HR RATED EXTERIOR WALL</li> <li>BRICK - U.L. #U302</li> <li>FIBER CEMENT SIDING AND NICHIF #U301</li> </ul>	IA PANEL - U.L.
	#U301 <ul> <li>1 HR RATED TENANT SEPARATION FIRE</li> <li>1000 000000000000000000000000000000000</li></ul>	E PARTITION -
· · ·	<ul><li>U.L. #U341</li><li>1 HR RATED EXIT ACCESS CORRIDORS</li></ul>	FIRE
	<ul><li>PARTITION - GA FILE NO. WP3380</li><li>1 HR RATED EXIT ACCESS CORRIDORS</li></ul>	FIRE
	PARTITION AND INTERIOR WALLS - U.L.	#U305
	3 HR RATED FIRE BARRIER SEPARATIC WP 2800	N - GA FILE NO
HORIZONTAL S	EPARATIONS (TYPE III-A)	
	1 HR RATED HORIZONTAL SEPARATION	I - UL-#P522
	DENOTES ACCESSORY FEC	FIRE
	USF	EXTINGUISHER CABINET
	- DENOTES WALL TYPE SP	STAND PIPE LOCATION
NOTES:		
	INGS TO HAVE A 13 SPRINKLER SYSTEM. RIER WALLS TO EXTEND TO DECK OF FLOO	R ABOVE OR
	-	
TO ROOF I 3. REFER TO	BUILDING PLAN AND ENLARGED PLAN DET	AILS FOR
TO ROOF I 3. REFER TO ADDITION/ 4. FIRE EXTIN	AL ASSEMBLY LOCATIONS. NGUISHER MUST BE LOCATED WITHIN 75'-0	" OF TRAVEL
TO ROOF I 3. REFER TO ADDITION/ 4. FIRE EXTIN DISTANCE WITH FIRE	AL ASSEMBLY LOCATIONS.	" OF TRAVEL ORDINATE

**GRADE PLANE CALCULATIONS** 

MECHANICAL CLOSETS TO BE S-2 OCCUPANCY.

GRADE POINTS AROUND BUILDING: • 49.44

 51.08 • 33.95 • 33.57

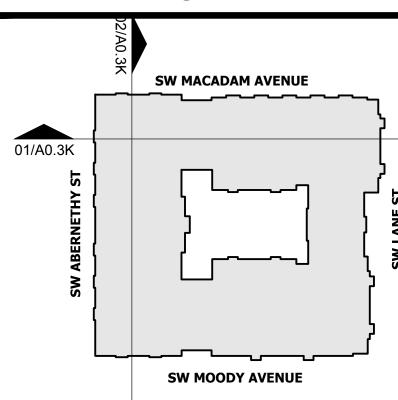
NOTES:

GRADE PLANE

• (49.44+51.08+33.95+33.57)/4 = <u>42.01</u>

1. REFER TO SITE PLAN FOR GRADE POINTS AROUND BUILDING.

## **KEY PLAN LEGEND**



### V.10.01.14

THE S-2 7. ALL STORAGE CLOSETS, BOILER ROOMS, ELECTRICAL CLOSETS &





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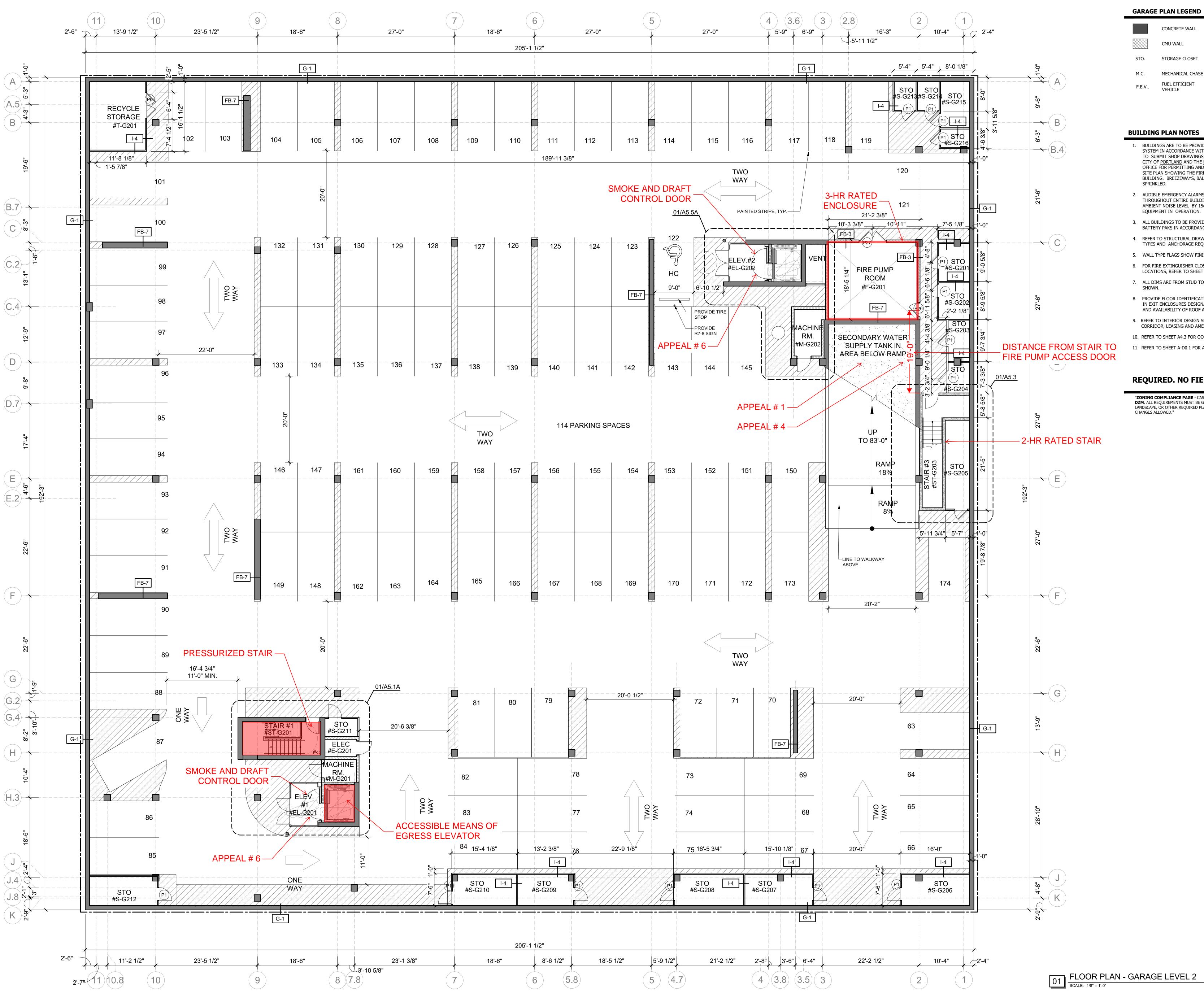
Project Title:



ALAMO MANHATTAN



EGRESS AND FIRE PROTECTION DIAGRAM



GARAGE	PLAN LEGEND		V
	CONCRETE WALL	£	Handicap Par Stall
	CMU WALL		
STO.	STORAGE CLOSET		NO PARKING
M.C.	MECHANICAL CHASE		REGULAR PAF SPACE 8'-6" x 16'-0"
F.E.V	FUEL EFFICIENT VEHICLE	LOADING	LOADING SPA 9'-0" x 18'-0"

## **BUILDING PLAN NOTES**

- 1. BUILDINGS ARE TO BE PROVIDED WITH A COMPLETE SPRINKLER SYSTEM IN ACCORDANCE WITH NFPA 13. SPRINKLER CONTRACTOR TO SUBMIT SHOP DRAWINGS, CALCULATIONS AND SPECS TO THE CITY OF PORTLAND AND THE PORTLAND COUNTY FIRE MARSHALL'S OFFICE FOR PERMITTING AND REVIEWING PURPOSES INCLUDING A SITE PLAN SHOWING THE FIRE DEPARTMENT CONNECTION FOR EACH BUILDING. BREEZEWAYS, BALCONIES & CORRIDORS ARE TO BE SPRINKLED.
- AUDIBLE EMERGENCY ALARMS SHALL PRODUCE A MINIMUM OF 80dB THROUGHOUT ENTIRE BUILDING AND THE SOUND SHALL EXCEED THE AMBIENT NOISE LEVEL BY 15dB WITH ALL DOORS CLOSED AND EQUIPMENT IN OPERATION.
- 3. ALL BUILDINGS TO BE PROVIDED WITH EMERGENCY LIGHTING BATTERY PAKS IN ACCORDANCE WITH NFPA 101.
- 4. REFER TO STRUCTURAL DRAWINGS FOR SHEARWALL LOCATIONS, TYPES AND ANCHORAGE REQUIREMENTS.
- 5. WALL TYPE FLAGS SHOW FINISHES. REF ALSO TO ELEVATIONS.
- 6. FOR FIRE EXTINGUISHER CLOSET (FEC) AND STAND PIPE (SP) LOCATIONS, REFER TO SHEET A0.3
- 7. ALL DIMS ARE FROM STUD TO STUD SOME BRICK LEDGE DIMS ARE SHOWN.
- 8. PROVIDE FLOOR IDENTIFICATION SIGNAGE AT EACH FLOOR LANDING IN EXIT ENCLOSURES DESIGNATING THE FLOOR LEVEL AND STAIRS AND AVAILABILITY OF ROOF ACCESS.
- 9. REFER TO INTERIOR DESIGN SET FOR BUMP OUT DIMENSIONS IN CORRIDOR, LEASING AND AMENITY SPACES.
- 10. REFER TO SHEET A4.3 FOR OCCUPANCY CALCULATIONS.
- 11. REFER TO SHEET A-D0.1 FOR ALL WALL TYPES.

## **REQUIRED. NO FIELD CHANGES ALLOWED**

"ZONING COMPLIANCE PAGE - CASE FILE LU 18-163208 DZ AND LU 17-110666 DZM. ALL REQUIREMENTS MUST BE GRAPHICALLY REPRESENTED ON THE SITE PLAN, LANDSCAPE, OR OTHER REQUIRED PLAN AND MUST BE LABELED "REQUIRED." NO FIELD CHANGES ALLOWED."

# V.04.04.13

ARKING

G AREA ARKING

SPACE

V-17065-07.09.18



CITY OF PORTLAND SEAL

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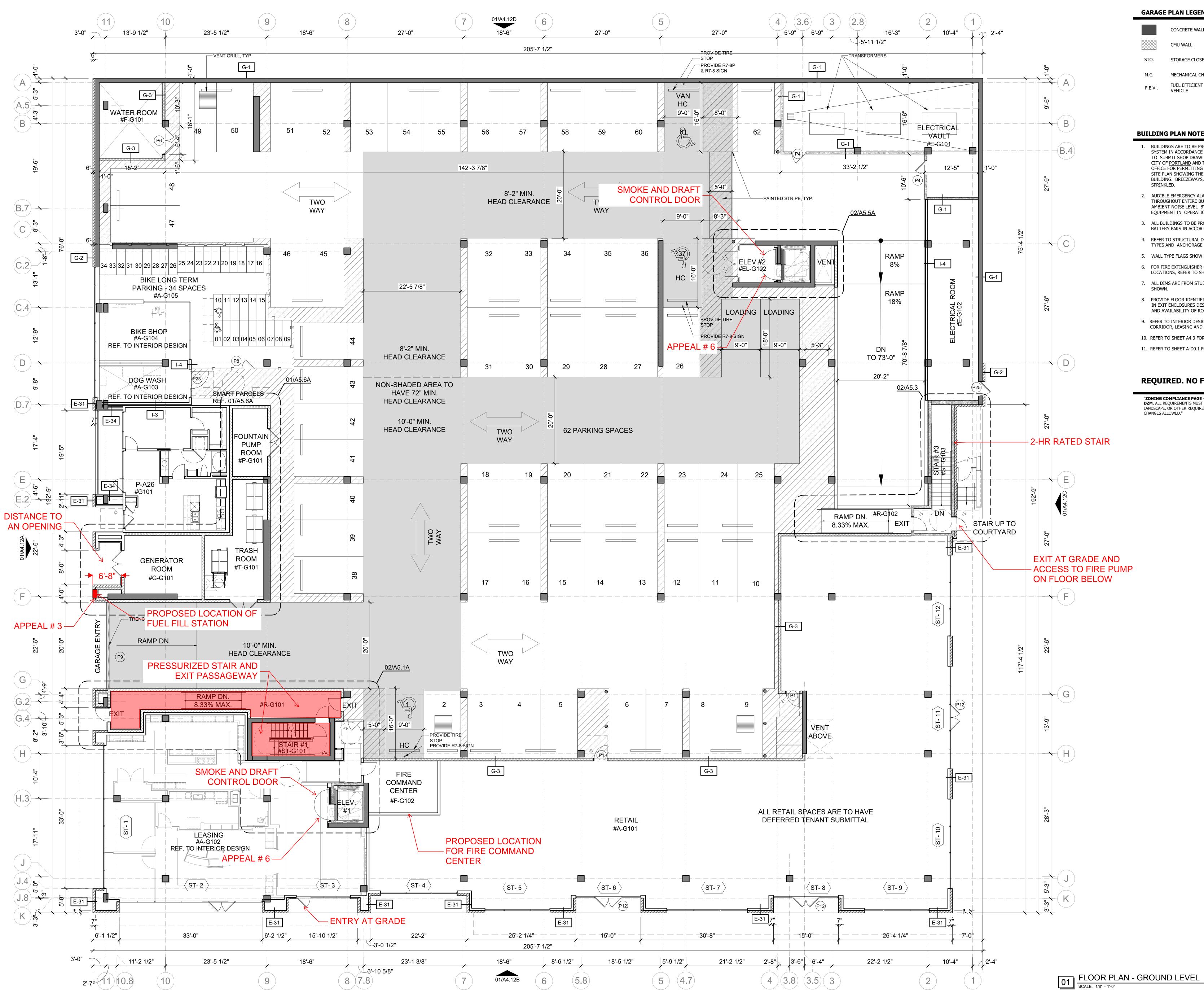
Project Title:

Z

E2 BLOCK 40 PORTLAND OREGON

ALAMO MANHATTAN

Issue Set:	04.09.18
Permit Set Issue:	07.20.18
Construction Set Issue:	
Project ID 17065	
Drawing No.	
FLOOR PLAN GARAGE LEVE	



GARAGE	PLAN LEGEND		V
	CONCRETE WALL	Ŀ	Handicap Par Stall
	CMU WALL		
STO.	STORAGE CLOSET		NO PARKING A
M.C.	MECHANICAL CHASE		SPACE 8'-6" x 16'-0"
F.E.V	FUEL EFFICIENT VEHICLE	LOADING	LOADING SPA 9'-0" x 18'-0"

## **BUILDING PLAN NOTES**

SHOWN.

1.	BUILDINGS ARE TO BE PROVIDED WITH A COMPLETE SPRINKL
	SYSTEM IN ACCORDANCE WITH NFPA 13. SPRINKLER CONTRA
	TO SUBMIT SHOP DRAWINGS, CALCULATIONS AND SPECS TO
	CITY OF PORTLAND AND THE PORTLAND COUNTY FIRE MARSH
	OFFICE FOR PERMITTING AND REVIEWING PURPOSES INCLUDI
	SITE PLAN SHOWING THE FIRE DEPARTMENT CONNECTION FOR
	BUILDING. BREEZEWAYS, BALCONIES & CORRIDORS ARE TO B
	SPRINKLED.

AUDIBLE EMERGENCY ALARMS SHALL PRODUCE A MINIMUM OF 80dB THROUGHOUT ENTIRE BUILDING AND THE SOUND SHALL EXCEED THE AMBIENT NOISE LEVEL BY 15dB WITH ALL DOORS CLOSED AND EQUIPMENT IN OPERATION.

- 3. ALL BUILDINGS TO BE PROVIDED WITH EMERGENCY LIGHTING BATTERY PAKS IN ACCORDANCE WITH NFPA 101.
- 4. REFER TO STRUCTURAL DRAWINGS FOR SHEARWALL LOCATIONS, TYPES AND ANCHORAGE REQUIREMENTS.
- 5. WALL TYPE FLAGS SHOW FINISHES. REF ALSO TO ELEVATIONS.
- 6. FOR FIRE EXTINGUISHER CLOSET (FEC) AND STAND PIPE (SP) LOCATIONS, REFER TO SHEET A0.3
- 7. ALL DIMS ARE FROM STUD TO STUD SOME BRICK LEDGE DIMS ARE
- 8. PROVIDE FLOOR IDENTIFICATION SIGNAGE AT EACH FLOOR LANDING IN EXIT ENCLOSURES DESIGNATING THE FLOOR LEVEL AND STAIRS AND AVAILABILITY OF ROOF ACCESS.

9. REFER TO INTERIOR DESIGN SET FOR BUMP OUT DIMENSIONS IN CORRIDOR, LEASING AND AMENITY SPACES.

10. REFER TO SHEET A4.3 FOR OCCUPANCY CALCULATIONS.

11. REFER TO SHEET A-D0.1 FOR ALL WALL TYPES.

### **REQUIRED. NO FIELD CHANGES ALLOWED**

"ZONING COMPLIANCE PAGE - CASE FILE LU 18-163208 DZ AND LU 17-110666 DZM. ALL REQUIREMENTS MUST BE GRAPHICALLY REPRESENTED ON THE SITE PLAN, LANDSCAPE, OR OTHER REQUIRED PLAN AND MUST BE LABELED "REQUIRED." NO FIELD CHANGES ALLOWED.

V.04.04.13

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V-17065-07.09.18 KLER RACTOR THE HALL'S DING A OR EACH



CITY OF PORTLAND SEAL

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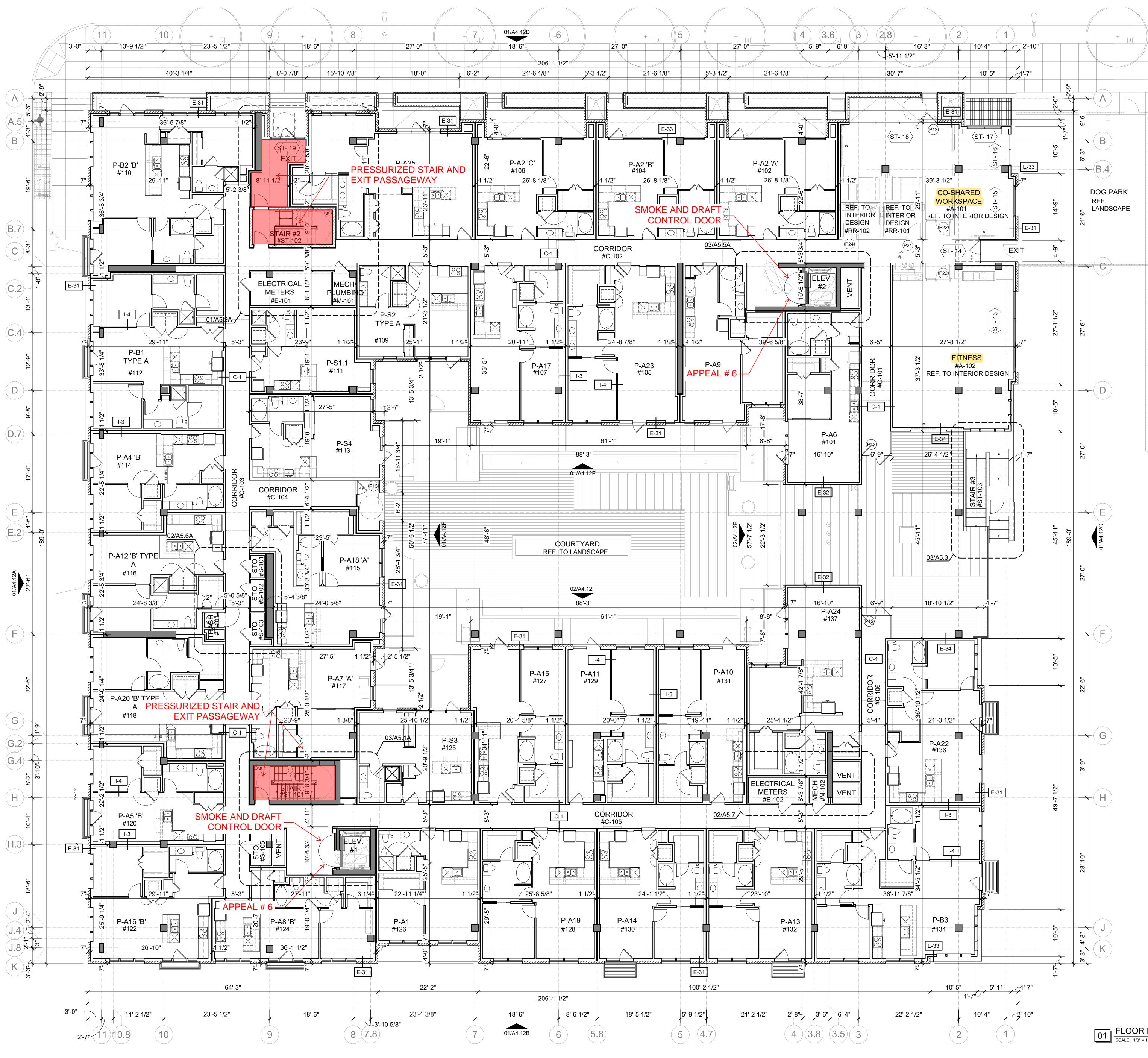
E2 BLOCK 40

PORTLAND OREGON

ALAMO MANHATTAN

Issue Set:	04.09.18	
Permit Set Issue:	07.20.18	
Construction Set Issue:		
Project ID 17065		
Drawing No.		

FLOOR PLAN GROUND LEVEL



Bl	UILDING PLAN LEGEND	V.07.27
_	C J PROVIDE CEILNG CONTROL JC SEE CONTROL JOINT NOTES	DINT (CJ).
	SPC STANDPIPE CLOSET BY SPRIN CONTRACTOR	KLER
	FDC FIRE DEPARTMENT CONNECTIVE EM ELECTRIC METER LOCATION EC ELECTRICAL CHASE MC MECHANICAL CHASE IT COMMUNICATIONS CLOSET STO STORAGE CLOSET	ON
C <b>O</b>	ONTROL JOINT (CJ) NOTES	V-08.28.17
1.	PROVIDE CONTROL JOINTS IN CEILING FLOORS. (CJ)	GYP. WHERE SHOWN ON ALL
2.	PROVIDE CONTROL JOINTS IN WALL AI CONTROL JOINTS ARE LOCATED. (CJ)	ND PARTITIONS WHERE CEILING
3.	PROVIDE TOOLED CONTROL JOINTS IN FOUNDATION & 2ND TO 4TH FLOORS V JOINTS ARE LOCATED. (CJ)	
4.	ALL SLOPED CONCRETE SURFACES TO	
UJ	ILDING PLAN NOTES	V-17065-07.09
1.	BUILDINGS ARE TO BE PROVIDED WITH SYSTEM IN ACCORDANCE WITH NFPA TO SUBMIT SHOP DRAWINGS, CALCUL CITY OF <u>PORTLAND</u> AND THE <u>PORTLAN</u> OFFICE FOR PERMITTING AND REVIEW SITE PLAN SHOWING THE FIRE DEPAR BUILDING. BREEZEWAYS, BALCONIES SPRINKLED.	13. SPRINKLER CONTRACTOR ATIONS AND SPECS TO THE ID COUNTY FIRE MARSHALL'S ING PURPOSES INCLUDING A TMENT CONNECTION FOR EACH
2.	AUDIBLE EMERGENCY ALARMS SHALL F THROUGHOUT ENTIRE BUILDING AND AMBIENT NOISE LEVEL BY 15dB WITH EQUIPMENT IN OPERATION.	THE SOUND SHALL EXCEED THE
3.	ALL BUILDINGS TO BE PROVIDED WITH BATTERY PAKS IN ACCORDANCE WITH	
4.	REFER TO STRUCTURAL DRAWINGS FO	
5.	WALL TYPE FLAGS SHOW FINISHES. R	EF ALSO TO ELEVATIONS.
5. 6.		

- 7. ALL DIMS ARE FROM STUD TO STUD SOME BRICK LEDGE DIMS ARE SHOWN.
- 8. PROVIDE FLOOR IDENTIFICATION SIGNAGE AT EACH FLOOR LANDING IN EXIT ENCLOSURES DESIGNATING THE FLOOR LEVEL AND STAIRS AND AVAILABILITY OF ROOF ACCESS.
- 9. REFER TO INTERIOR DESIGN SET FOR BUMP OUT DIMENSIONS IN CORRIDOR, LEASING AND AMENITY SPACES.
- 10. REFER TO SHEET A4.3 FOR OCCUPANCY CALCULATIONS.
- 11. REFER TO SHEET A-D0.1 FOR ALL WALL TYPES.

## **REQUIRED. NO FIELD CHANGES ALLOWED**

"ZONING COMPLIANCE PAGE - CASE FILE LU 18-163208 DZ AND LU 17-110666 DZM. ALL REQUIREMENTS MUST BE GRAPHICALLY REPRESENTED ON THE SITE PLAN, LANDSCAPE, OR OTHER REQUIRED PLAN AND MUST BE LABELED "REQUIRED." NO FIELD CHANGES ALLOWED."

01 FLOOR PLAN - UNIT LEVEL 1 SCALE: 1/8" = 1'-0"

V.07.27.12 

N ALL

CEILING

5-07.09.18 TOR

r each

F 80dB EED THE



CITY OF PORTLAND SEAL

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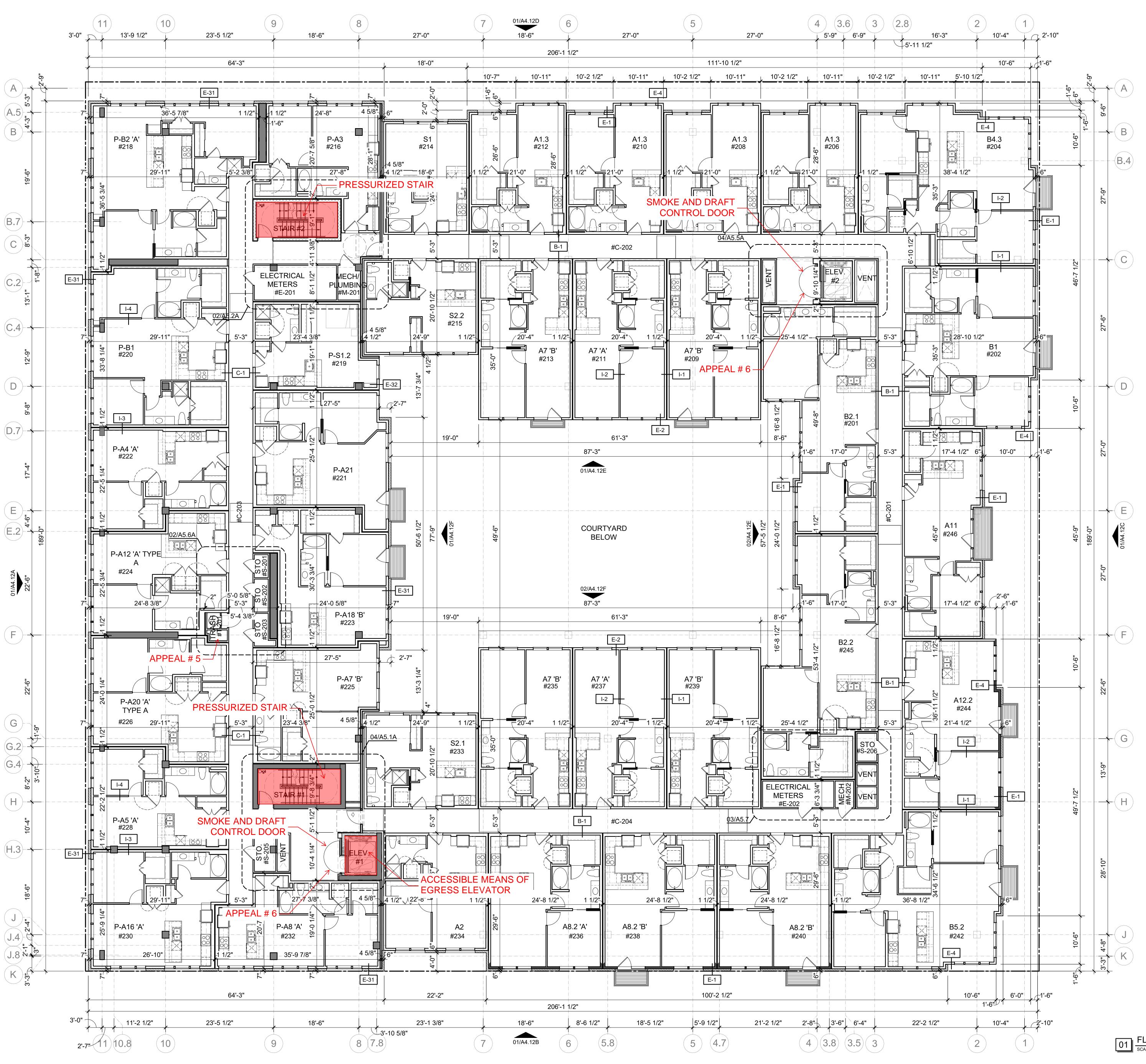
Project Title:

E2 BLOCK 40 PORTLAND OREGON

ALAMO MANHATTAN

04.09.18
07.20.18

FLOOR PLAN UNIT LEVEL 1



<b>BUILDING PLAN LEGEND</b>
-----------------------------

C	PROVIDE CEILNG CONTROL JOINT (CJ). SEE CONTROL JOINT NOTES
SPC	STANDPIPE CLOSET BY SPRINKLER CONTRACTOR
FDC	FIRE DEPARTMENT CONNECTION
EM	ELECTRIC METER LOCATION
EC	ELECTRICAL CHASE
MC	MECHANICAL CHASE
IT	COMMUNICATIONS CLOSET
STO	STORAGE CLOSET

CO	NTROL JOINT (CJ) NOTES	V-08.28.17
1.	PROVIDE CONTROL JOINTS IN CEILING ( FLOORS. (CJ)	GYP. WHERE SHOWN ON ALL
2.	PROVIDE CONTROL JOINTS IN WALL AND CONTROL JOINTS ARE LOCATED. (CJ)	O PARTITIONS WHERE CEILING
3.	PROVIDE TOOLED CONTROL JOINTS IN O FOUNDATION & 2ND TO 4TH FLOORS WI	

4. ALL SLOPED CONCRETE SURFACES TO HAVE LIGHT BROOM FINISH.

## **BUILDING PLAN NOTES**

JOINTS ARE LOCATED. (CJ)

- BUILDINGS ARE TO BE PROVIDED WITH A COMPLETE SPRINKLER SYSTEM IN ACCORDANCE WITH NFPA 13. SPRINKLER CONTRACTOR TO SUBMIT SHOP DRAWINGS, CALCULATIONS AND SPECS TO THE CITY OF PORTLAND AND THE PORTLAND COUNTY FIRE MARSHALL'S OFFICE FOR PERMITTING AND REVIEWING PURPOSES INCLUDING A SITE PLAN SHOWING THE FIRE DEPARTMENT CONNECTION FOR EACH BUILDING. BREEZEWAYS, BALCONIES & CORRIDORS ARE TO BE SPRINKLED.
- 2. AUDIBLE EMERGENCY ALARMS SHALL PRODUCE A MINIMUM OF 80dB THROUGHOUT ENTIRE BUILDING AND THE SOUND SHALL EXCEED THE AMBIENT NOISE LEVEL BY 15dB WITH ALL DOORS CLOSED AND EQUIPMENT IN OPERATION.
- 3. ALL BUILDINGS TO BE PROVIDED WITH EMERGENCY LIGHTING BATTERY PAKS IN ACCORDANCE WITH NFPA 101.
- 4. REFER TO STRUCTURAL DRAWINGS FOR SHEARWALL LOCATIONS, TYPES AND ANCHORAGE REQUIREMENTS.
- 5. WALL TYPE FLAGS SHOW FINISHES. REF ALSO TO ELEVATIONS. 6. FOR FIRE EXTINGUISHER CLOSET (FEC) AND STAND PIPE (SP)
- LOCATIONS, REFER TO SHEET A0.3 7. ALL DIMS ARE FROM STUD TO STUD - SOME BRICK LEDGE DIMS ARE
- SHOWN. 8. PROVIDE FLOOR IDENTIFICATION SIGNAGE AT EACH FLOOR LANDING IN EXIT ENCLOSURES DESIGNATING THE FLOOR LEVEL AND STAIRS
- AND AVAILABILITY OF ROOF ACCESS. 9. REFER TO INTERIOR DESIGN SET FOR BUMP OUT DIMENSIONS IN
- CORRIDOR, LEASING AND AMENITY SPACES. 10. REFER TO SHEET A4.3 FOR OCCUPANCY CALCULATIONS.
- 11. REFER TO SHEET A-D0.1 FOR ALL WALL TYPES.

## **REQUIRED. NO FIELD CHANGES ALLOWED**

"ZONING COMPLIANCE PAGE - CASE FILE LU 18-163208 DZ AND LU 17-110666 DZM. ALL REQUIREMENTS MUST BE GRAPHICALLY REPRESENTED ON THE SITE PLAN, LANDSCAPE, OR OTHER REQUIRED PLAN AND MUST BE LABELED "REQUIRED." NO FIELD CHANGES ALLOWED."

V.07.27.12

V-17065-07.09.18

CITY OF PORTLAND SEAL



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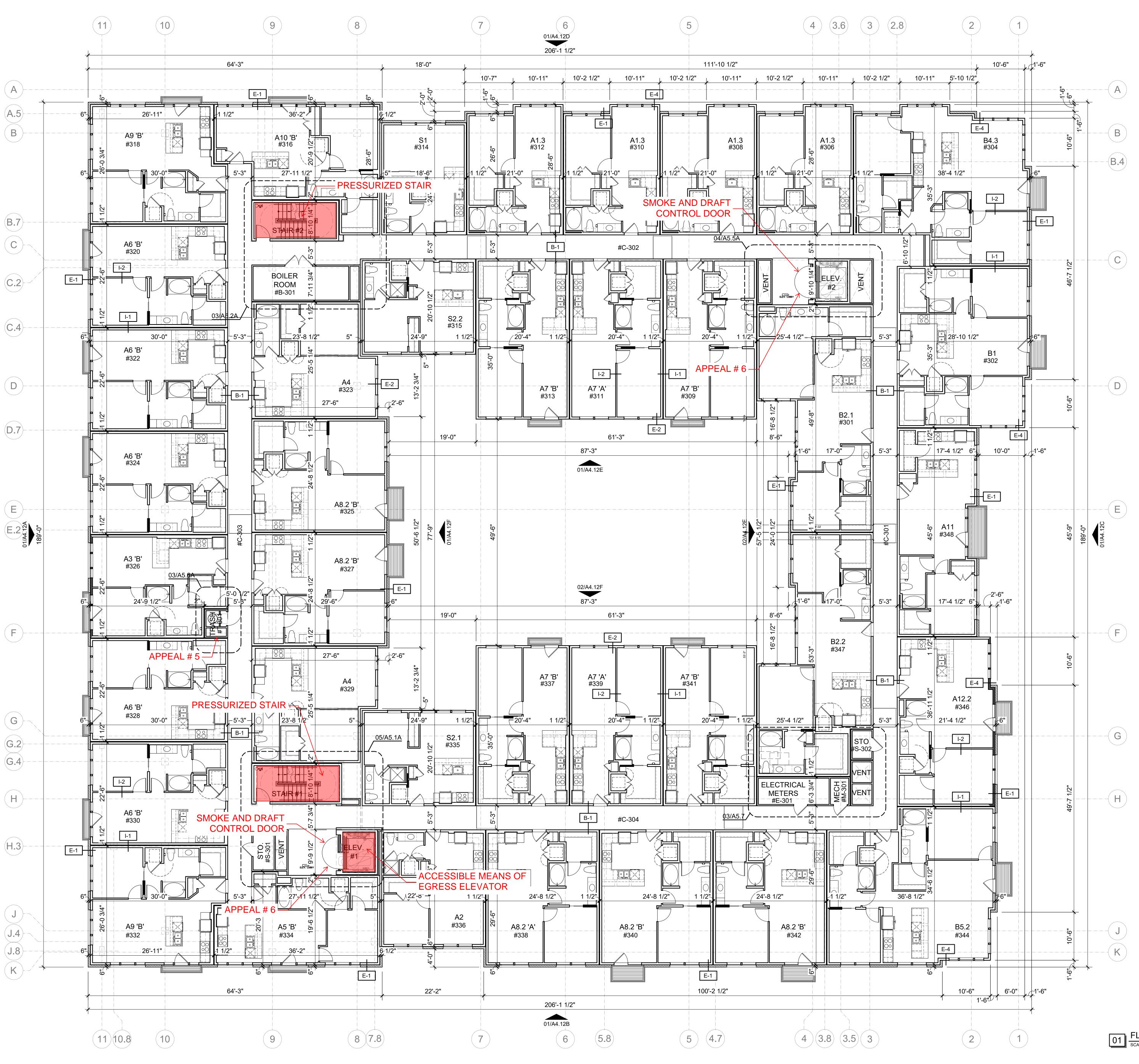
Project Title:

E2 BLOCK 40 PORTLAND OREGON

ALAMO MANHATTAN

Issue Set:	04.09.18
Permit Set Issue:	07.20.18
Construction Set Issue:	
Project ID 17065	
Drawing No.	I
<i>,</i> , , , , , , , , , , , , , , , , , ,	

FLOOR PLAN UNIT LEVEL 2



C	PROVIDE CEILNG CONTROL JOINT (CJ). SEE CONTROL JOINT NOTES
SPC	STANDPIPE CLOSET BY SPRINKLER CONTRACTOR
FDC	FIRE DEPARTMENT CONNECTION
EM	ELECTRIC METER LOCATION
EC	ELECTRICAL CHASE
MC	MECHANICAL CHASE
IT	COMMUNICATIONS CLOSET
STO	STORAGE CLOSET

CO	NTROL JOINT (CJ) NOTES	V-08.28.17
1.	PROVIDE CONTROL JOINTS IN CEILING ( FLOORS. (CJ)	GYP. WHERE SHOWN ON
2.	PROVIDE CONTROL JOINTS IN WALL ANI CONTROL JOINTS ARE LOCATED. (CJ)	D PARTITIONS WHERE C

3. PROVIDE TOOLED CONTROL JOINTS IN GYPCRETE FLOORS FOUNDATION & 2ND TO 4TH FLOORS WHERE CEILING CONTROL JOINTS ARE LOCATED. (CJ)

4. ALL SLOPED CONCRETE SURFACES TO HAVE LIGHT BROOM FINISH.

### **BUILDING PLAN NOTES**

- BUILDINGS ARE TO BE PROVIDED WITH A COMPLETE SPRINKLER SYSTEM IN ACCORDANCE WITH NFPA 13. SPRINKLER CONTRACTOR TO SUBMIT SHOP DRAWINGS, CALCULATIONS AND SPECS TO THE CITY OF PORTLAND AND THE PORTLAND COUNTY FIRE MARSHALL'S OFFICE FOR PERMITTING AND REVIEWING PURPOSES INCLUDING A SITE PLAN SHOWING THE FIRE DEPARTMENT CONNECTION FOR EACH BUILDING. BREEZEWAYS, BALCONIES & CORRIDORS ARE TO BE SPRINKLED.
- AUDIBLE EMERGENCY ALARMS SHALL PRODUCE A MINIMUM OF 80dB THROUGHOUT ENTIRE BUILDING AND THE SOUND SHALL EXCEED THE AMBIENT NOISE LEVEL BY 15dB WITH ALL DOORS CLOSED AND EQUIPMENT IN OPERATION.
- 3. ALL BUILDINGS TO BE PROVIDED WITH EMERGENCY LIGHTING BATTERY PAKS IN ACCORDANCE WITH NFPA 101.
- 4. REFER TO STRUCTURAL DRAWINGS FOR SHEARWALL LOCATIONS, TYPES AND ANCHORAGE REQUIREMENTS.
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- 9. REFER TO INTERIOR DESIGN SET FOR BUMP OUT DIMENSIONS IN CORRIDOR, LEASING AND AMENITY SPACES.
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- 11. REFER TO SHEET A-D0.1 FOR ALL WALL TYPES.

## **REQUIRED. NO FIELD CHANGES ALLOWED**

"ZONING COMPLIANCE PAGE - CASE FILE LU 18-163208 DZ AND LU 17-110666 DZM. ALL REQUIREMENTS MUST BE GRAPHICALLY REPRESENTED ON THE SITE PLAN, LANDSCAPE, OR OTHER REQUIRED PLAN AND MUST BE LABELED "REQUIRED." NO FIELD CHANGES ALLOWED."

V.07.27.12

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CEILING

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Project Title:

E2 BLOCK 40 PORTLAND OREGON

ALAMO MANHATTAN

Issue Set:	04.09.18
Permit Set Issue:	07.20.18
Construction Set Issue:	
Project ID 17065	
Drawing No. A4.6	
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FLOOR PLAN UNIT LEVEL 3



BUILDING PLAN LEGEND	
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C	PROVIDE CEILNG CONTROL JOINT (CJ). SEE CONTROL JOINT NOTES
SPC	STANDPIPE CLOSET BY SPRINKLER CONTRACTOR
FDC	FIRE DEPARTMENT CONNECTION
EM	ELECTRIC METER LOCATION
EC	ELECTRICAL CHASE
MC	MECHANICAL CHASE
IT	COMMUNICATIONS CLOSET
STO	STORAGE CLOSET

<b>CO</b>	CONTROL JOINT (CJ) NOTES V-08.28.17	
1.	PROVIDE CONTROL JOINTS IN CEILING FLOORS. (CJ)	GYP. WHERE SHOWN ON ALL
2.	PROVIDE CONTROL JOINTS IN WALL A	ND PARTITIONS WHERE CEILING

CONTROL JOINTS ARE LOCATED. (CJ) 3. PROVIDE TOOLED CONTROL JOINTS IN GYPCRETE FLOORS FOUNDATION & 2ND TO 4TH FLOORS WHERE CEILING CONTROL

4. ALL SLOPED CONCRETE SURFACES TO HAVE LIGHT BROOM FINISH.

### **BUILDING PLAN NOTES**

JOINTS ARE LOCATED. (CJ)

- BUILDINGS ARE TO BE PROVIDED WITH A COMPLETE SPRINKLER SYSTEM IN ACCORDANCE WITH NFPA 13. SPRINKLER CONTRACTOR TO SUBMIT SHOP DRAWINGS, CALCULATIONS AND SPECS TO THE CITY OF PORTLAND AND THE PORTLAND COUNTY FIRE MARSHALL'S OFFICE FOR PERMITTING AND REVIEWING PURPOSES INCLUDING A SITE PLAN SHOWING THE FIRE DEPARTMENT CONNECTION FOR EACH BUILDING. BREEZEWAYS, BALCONIES & CORRIDORS ARE TO BE SPRINKLED.
- AUDIBLE EMERGENCY ALARMS SHALL PRODUCE A MINIMUM OF 80dB THROUGHOUT ENTIRE BUILDING AND THE SOUND SHALL EXCEED THE AMBIENT NOISE LEVEL BY 15dB WITH ALL DOORS CLOSED AND EQUIPMENT IN OPERATION.
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- 7. ALL DIMS ARE FROM STUD TO STUD SOME BRICK LEDGE DIMS ARE SHOWN.
- 8. PROVIDE FLOOR IDENTIFICATION SIGNAGE AT EACH FLOOR LANDING IN EXIT ENCLOSURES DESIGNATING THE FLOOR LEVEL AND STAIRS AND AVAILABILITY OF ROOF ACCESS.
- 9. REFER TO INTERIOR DESIGN SET FOR BUMP OUT DIMENSIONS IN CORRIDOR, LEASING AND AMENITY SPACES.
- 10. REFER TO SHEET A4.3 FOR OCCUPANCY CALCULATIONS.
- 11. REFER TO SHEET A-D0.1 FOR ALL WALL TYPES.

## **REQUIRED. NO FIELD CHANGES ALLOWED**

"ZONING COMPLIANCE PAGE - CASE FILE LU 18-163208 DZ AND LU 17-110666 DZM. ALL REQUIREMENTS MUST BE GRAPHICALLY REPRESENTED ON THE SITE PLAN, LANDSCAPE, OR OTHER REQUIRED PLAN AND MUST BE LABELED "REQUIRED." NO FIELD CHANGES ALLOWED."

V.07.27.12

V-17065-07.09.18



CITY OF PORTLAND SEAL



PROJECT MGR: DRAWN BY: CHECKED BY: REVISIONS

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Project Title:

E2 BLOCK 40 PORTLAND OREGON

ALAMO MANHATTAN

Issue Set:	04.09.18
Permit Set Issue:	07.20.18
Construction Set Issue:	
Project ID 17065	
Drawing No.	,
$A \Delta I$	

FLOOR PLAN UNIT LEVEL 4



C	PROVIDE CEILNG CONTROL JOINT (CJ). SEE CONTROL JOINT NOTES
SPC	STANDPIPE CLOSET BY SPRINKLER CONTRACTOR
FDC	FIRE DEPARTMENT CONNECTION
EM	ELECTRIC METER LOCATION
EC	ELECTRICAL CHASE
MC	MECHANICAL CHASE
IT	COMMUNICATIONS CLOSET
STO	STORAGE CLOSET

СО	NTROL JOINT (CJ) NOTES	V-08.28.17
1.	PROVIDE CONTROL JOINTS IN CEILING G FLOORS. (CJ)	YP. WHERE SHOWN ON
2.	PROVIDE CONTROL JOINTS IN WALL AND CONTROL JOINTS ARE LOCATED. (CJ)	PARTITIONS WHERE C

3. PROVIDE TOOLED CONTROL JOINTS IN GYPCRETE FLOORS FOUNDATION & 2ND TO 4TH FLOORS WHERE CEILING CONTROL JOINTS ARE LOCATED. (CJ)

4. ALL SLOPED CONCRETE SURFACES TO HAVE LIGHT BROOM FINISH.

### **BUILDING PLAN NOTES**

- BUILDINGS ARE TO BE PROVIDED WITH A COMPLETE SPRINKLER SYSTEM IN ACCORDANCE WITH NFPA 13. SPRINKLER CONTRACTOR TO SUBMIT SHOP DRAWINGS, CALCULATIONS AND SPECS TO THE CITY OF PORTLAND AND THE PORTLAND COUNTY FIRE MARSHALL'S OFFICE FOR PERMITTING AND REVIEWING PURPOSES INCLUDING A SITE PLAN SHOWING THE FIRE DEPARTMENT CONNECTION FOR EACH BUILDING. BREEZEWAYS, BALCONIES & CORRIDORS ARE TO BE SPRINKLED.
- AUDIBLE EMERGENCY ALARMS SHALL PRODUCE A MINIMUM OF 80dB THROUGHOUT ENTIRE BUILDING AND THE SOUND SHALL EXCEED THE AMBIENT NOISE LEVEL BY 15dB WITH ALL DOORS CLOSED AND EQUIPMENT IN OPERATION.
- 3. ALL BUILDINGS TO BE PROVIDED WITH EMERGENCY LIGHTING BATTERY PAKS IN ACCORDANCE WITH NFPA 101.
- 4. REFER TO STRUCTURAL DRAWINGS FOR SHEARWALL LOCATIONS, TYPES AND ANCHORAGE REQUIREMENTS.
- 5. WALL TYPE FLAGS SHOW FINISHES. REF ALSO TO ELEVATIONS.
- 6. FOR FIRE EXTINGUISHER CLOSET (FEC) AND STAND PIPE (SP) LOCATIONS, REFER TO SHEET A0.3
- 7. ALL DIMS ARE FROM STUD TO STUD SOME BRICK LEDGE DIMS ARE SHOWN.
- 8. PROVIDE FLOOR IDENTIFICATION SIGNAGE AT EACH FLOOR LANDING IN EXIT ENCLOSURES DESIGNATING THE FLOOR LEVEL AND STAIRS AND AVAILABILITY OF ROOF ACCESS.
- 9. REFER TO INTERIOR DESIGN SET FOR BUMP OUT DIMENSIONS IN CORRIDOR, LEASING AND AMENITY SPACES.
- 10. REFER TO SHEET A4.3 FOR OCCUPANCY CALCULATIONS.
- 11. REFER TO SHEET A-D0.1 FOR ALL WALL TYPES.

## **REQUIRED. NO FIELD CHANGES ALLOWED**

"ZONING COMPLIANCE PAGE - CASE FILE LU 18-163208 DZ AND LU 17-110666 DZM. ALL REQUIREMENTS MUST BE GRAPHICALLY REPRESENTED ON THE SITE PLAN, LANDSCAPE, OR OTHER REQUIRED PLAN AND MUST BE LABELED "REQUIRED." NO FIELD CHANGES ALLOWED."

01 FLOOR PLAN - UNIT LEVEL 5 SCALE: 1/8" = 1'-0"

V.07.27.12

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CEILING

V-17065-07.09.18



CITY OF PORTLAND SEAL

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Project Title:

E2 BLOCK 40 PORTLAND OREGON

ALAMO MANHATTAN

Issue Set:	04.09.18
Permit Set Issue:	07.20.18
Construction Set Issue:	
Project ID 17065	
Drawing No.	

A4.8 FLOOR PLAN UNIT LEVEL 5



C	PROVIDE CEILNG CONTROL JOINT (CJ). SEE CONTROL JOINT NOTES
SPC	STANDPIPE CLOSET BY SPRINKLER CONTRACTOR
FDC	FIRE DEPARTMENT CONNECTION
EM	ELECTRIC METER LOCATION
EC	ELECTRICAL CHASE
MC	MECHANICAL CHASE
IT	COMMUNICATIONS CLOSET
STO	STORAGE CLOSET

CONTROL JOINT (CJ) NOTES V-08.28.		V-08.28.17	
	1.	PROVIDE CONTROL JOINTS IN CEILING G FLOORS. (CJ)	YP. WHERE SHOWN ON
	2.	PROVIDE CONTROL JOINTS IN WALL AND CONTROL JOINTS ARE LOCATED. (CJ)	PARTITIONS WHERE C
	3.	PROVIDE TOOLED CONTROL JOINTS IN G	YPCRETE FLOORS

3. PROVIDE TOOLED CONTROL JOINTS IN GYPCRETE FLOORS FOUNDATION & 2ND TO 4TH FLOORS WHERE CEILING CONTROL JOINTS ARE LOCATED. (CJ)

4. ALL SLOPED CONCRETE SURFACES TO HAVE LIGHT BROOM FINISH.

### **BUILDING PLAN NOTES**

- BUILDINGS ARE TO BE PROVIDED WITH A COMPLETE SPRINKLER SYSTEM IN ACCORDANCE WITH NFPA 13. SPRINKLER CONTRACTOR TO SUBMIT SHOP DRAWINGS, CALCULATIONS AND SPECS TO THE CITY OF PORTLAND AND THE PORTLAND COUNTY FIRE MARSHALL'S OFFICE FOR PERMITTING AND REVIEWING PURPOSES INCLUDING A SITE PLAN SHOWING THE FIRE DEPARTMENT CONNECTION FOR EACH BUILDING. BREEZEWAYS, BALCONIES & CORRIDORS ARE TO BE SPRINKLED.
- AUDIBLE EMERGENCY ALARMS SHALL PRODUCE A MINIMUM OF 80dB THROUGHOUT ENTIRE BUILDING AND THE SOUND SHALL EXCEED THE AMBIENT NOISE LEVEL BY 15dB WITH ALL DOORS CLOSED AND EQUIPMENT IN OPERATION.
- 3. ALL BUILDINGS TO BE PROVIDED WITH EMERGENCY LIGHTING BATTERY PAKS IN ACCORDANCE WITH NFPA 101.
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- 10. REFER TO SHEET A4.3 FOR OCCUPANCY CALCULATIONS.
- 11. REFER TO SHEET A-D0.1 FOR ALL WALL TYPES.

CORRIDOR, LEASING AND AMENITY SPACES.

## **REQUIRED. NO FIELD CHANGES ALLOWED**

"ZONING COMPLIANCE PAGE - CASE FILE LU 18-163208 DZ AND LU 17-110666 DZM. ALL REQUIREMENTS MUST BE GRAPHICALLY REPRESENTED ON THE SITE PLAN, LANDSCAPE, OR OTHER REQUIRED PLAN AND MUST BE LABELED "REQUIRED." NO FIELD CHANGES ALLOWED."

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V-17065-07.09.18



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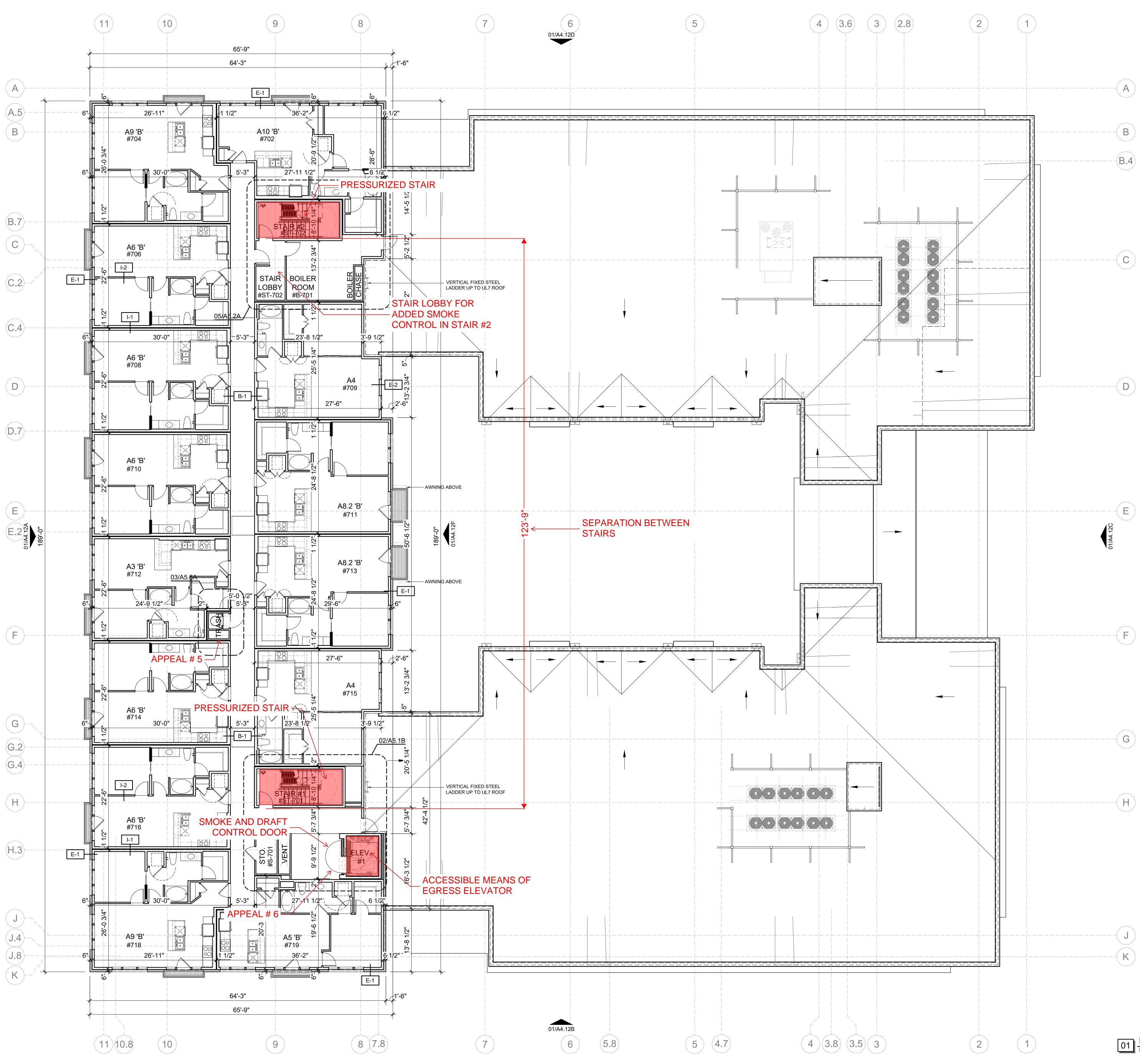
Project Title:

E2 BLOCK 40 PORTLAND OREGON

ALAMO MANHATTAN

Issue Set:	04.09.18
Permit Set Issue:	07.20.18
Construction Set Issue:	
Project ID 17065	
Drawing No.	

A4.9 FLOOR PLAN UNIT LEVEL 6



C	PROVIDE CEILNG CONTROL JOINT (CJ). SEE CONTROL JOINT NOTES
SPC	STANDPIPE CLOSET BY SPRINKLER CONTRACTOR
FDC	FIRE DEPARTMENT CONNECTION
EM	ELECTRIC METER LOCATION
EC	ELECTRICAL CHASE
MC	MECHANICAL CHASE
IT	COMMUNICATIONS CLOSET
STO	STORAGE CLOSET

CO	NTROL JOINT (CJ) NOTES	V-08.28.17		
1.	PROVIDE CONTROL JOINTS IN CEILING G FLOORS. (CJ)	YP. WHERE SHOWN ON		
2.	PROVIDE CONTROL JOINTS IN WALL AND CONTROL JOINTS ARE LOCATED. (CJ)	PARTITIONS WHERE C		
з				

- 3. PROVIDE TOOLED CONTROL JOINTS IN GYPCRETE FLOORS FOUNDATION & 2ND TO 4TH FLOORS WHERE CEILING CONTROL JOINTS ARE LOCATED. (CJ)
- 4. ALL SLOPED CONCRETE SURFACES TO HAVE LIGHT BROOM FINISH.

### **BUILDING PLAN NOTES**

- 1. BUILDINGS ARE TO BE PROVIDED WITH A COMPLETE SPRINKLER SYSTEM IN ACCORDANCE WITH NFPA 13. SPRINKLER CONTRACTOR TO SUBMIT SHOP DRAWINGS, CALCULATIONS AND SPECS TO THE CITY OF PORTLAND AND THE PORTLAND COUNTY FIRE MARSHALL'S OFFICE FOR PERMITTING AND REVIEWING PURPOSES INCLUDING A SITE PLAN SHOWING THE FIRE DEPARTMENT CONNECTION FOR EACH BUILDING. BREEZEWAYS, BALCONIES & CORRIDORS ARE TO BE SPRINKLED.
- 2. AUDIBLE EMERGENCY ALARMS SHALL PRODUCE A MINIMUM OF 80dB THROUGHOUT ENTIRE BUILDING AND THE SOUND SHALL EXCEED THE AMBIENT NOISE LEVEL BY 15dB WITH ALL DOORS CLOSED AND EQUIPMENT IN OPERATION.
- 3. ALL BUILDINGS TO BE PROVIDED WITH EMERGENCY LIGHTING BATTERY PAKS IN ACCORDANCE WITH NFPA 101.
- 4. REFER TO STRUCTURAL DRAWINGS FOR SHEARWALL LOCATIONS, TYPES AND ANCHORAGE REQUIREMENTS.
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CORRIDOR, LEASING AND AMENITY SPACES.

## **REQUIRED. NO FIELD CHANGES ALLOWED**

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ROOF L	09-04-18	
XX:12	SLOPE & DIRECTION OF ROOF DRAINAG	6E
□ D.S.	DOWN SPOUT	
R.D.	SCUPPER ROOF DRAIN	
□ 0.D.	SCUPPER OVERFLOW DRAIN	
MC	MECHANICAL CLOSET BELOW	

#### **ROOF NOTES** V-09-04-18

- 1. REFER TO STRUCTURAL DRAWINGS FOR ROOF
- FRAMING PLANS AND SPECS. 3. ALL ROOF AND FLOOR TRUSSES SHALL BE DESIGNED AND SEALED BY ENGINEER REGISTERED IN THE PROJECT STATE. TRUSS LAYOUT & PROFILES TO BE COORDINATED BY TRUSS
- ENGINEER. 4. ALL DOWNSPOUTS ON EXTERIOR WALLS TO BE TIED TO FILTRATION SYSTEM @ COURTYARD
- 5. ALL DRIP EDGES TO HAVE LEGS PER 2014 OSSC SECTION 1507.2.9.3. 6. ALL SLOPES ON ROOF TO BE 3/8" PER FT. MIN.
- 7. SCUPPER OVERFLOW DRAIN TO BE 2" MAX. ABOVE THE
- FINISH ELEVATION OF THE MAIN SCUPPER DRAIN.

V.07.27.12

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V-17065-07.09.18

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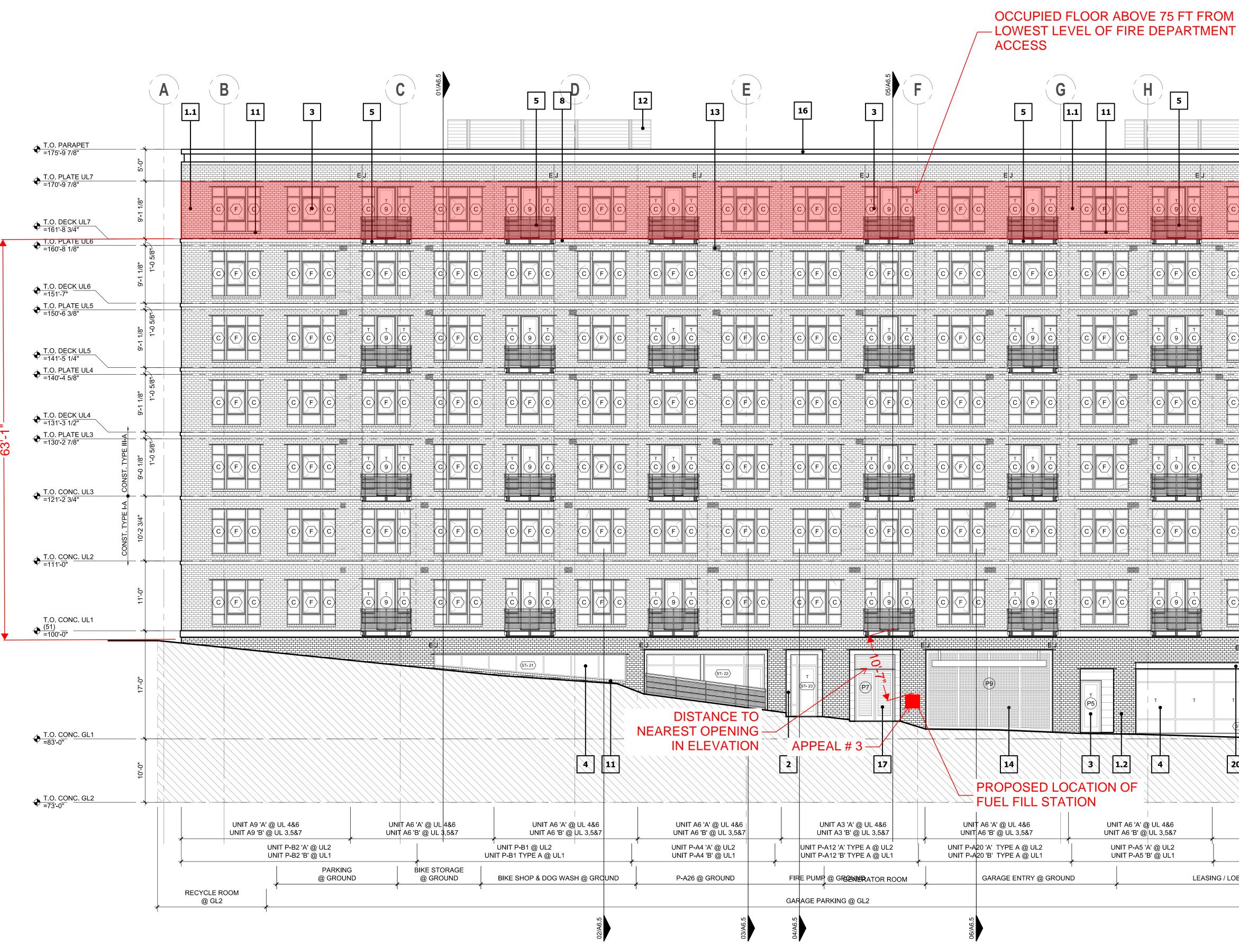
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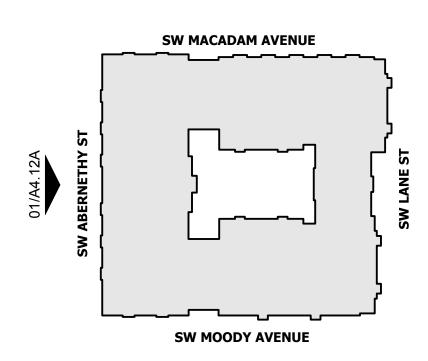
E2 BLOCK 40 PORTLAND OREGON

ALAMO MANHATTAN

04.09.18
07.20.18
C

FLOOR PLAN UNIT LEVEL 7/ROOF PLAN





#### **1.1** BRICK VENEER COLUMBIA RED, COLUMBIA RED, MISSION TEXTURE BY MUTUAL MATERIALS **1.2** BRICK VENEER EBONY, MISSTION TEXTURE BY MUTUAL MATERIALS 2 NICHIHA FIBER CEMENT PANEL SYSTEM - ILLUMINATION SERIES, COLOR TO MATCH SW 7068 N **3** COMMERCIAL GRADE VINYL WINDOW/DOOR 8 **4** ALUMINUM STOREFRONT SYSTEM - CLEAR ANODIZED COLOR T.O. PARAPET =175'-9 7/8" **5** PAINTED STEEL BALCONY SYSTEM - SW 7068 T.O. PLATE UL7 =170'-9 7/8" C F C 6 PRECAST CAP C F C T.O. DECK UL7 =161'-8 3/4" **7** EXPOSED CONCRETE - SMOOTH RUBBED FINISH T.O. PLATE UL6 =160'-8 1/8" **8** PRE-CAST CONCRETE BAND T.O. DECK UL6 9 PRE-CAST CONCRETE SILL T.O. PLATE UL5 =150'-6 3/8" C F C **10** ALUMINUM CANOPY SYSTEM WITH FABRIC COVER T.O. DECK UL5 ▫¯][¯ **11** BRICK ROWLOCK SILL T.O. PLATE UL4 =140'-4 5/8" C F C F C C) (F) ( **12** MECHANICAL ROOF EQUIPMENT SCREEN T.O. DECK UL4 **13** MECHANICAL LOUVER T.O. PLATE UL3 =130'-2 7/8" C F C F **14** FAST SPEED ROLL-UP GARAGE ENTRY GATE T.O. CONC. UL3 =121'-2 3/4" **15** NOT USED C F ) (F) **16** PARAPET METAL FLASHING CAP T.O. CONC. UL2 \_\_\_\_\_ **17** PAINTED METAL DOOR **18** CONCRETE PLANTER T.O. CONC. UL1 <u>(51)</u> =100'-0" — • **19** FIBER CEMENT TRIM BAND **20** STEEL CANOPY SYSTEM WITH METAL ROOF COVERING **21** FIBER CEMENT LAP SIDING SYSTEM - GRIZZLE GRAY, SW 7068 – T = TEMPERED GLASS 8 20 4 \*EXAMPLE ELEVATION T.O. CONC. GL2 UNIT A9 'A' @ UL 4&6 UNIT A9 'B' @ UL 3,5&7 1. FLOOR HEIGHTS - GL2 = 10 FT, GROUND = 14 FT, UL1-UL7 = 9 FT. 2. 11-7/8" INCH TGI TRUSSES FOR ALL FLOORS. UNIT P-A16 @ UL2<sup>′</sup> UNIT P-A16 'B' @ UL1 3. REFER TO ROOF PLANS FOR ROOF OVERHANG DIMENSIONS. LEASING / LOBBY @ GROUND

01 ELEVATION SCALE: 1/8" = 1'-0"

CITY OF PORTLAND SEAL

**ELEVATIONS MATERIAL LEGEND** 

SOUTH BUILDING



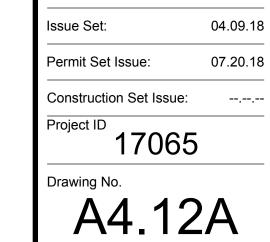
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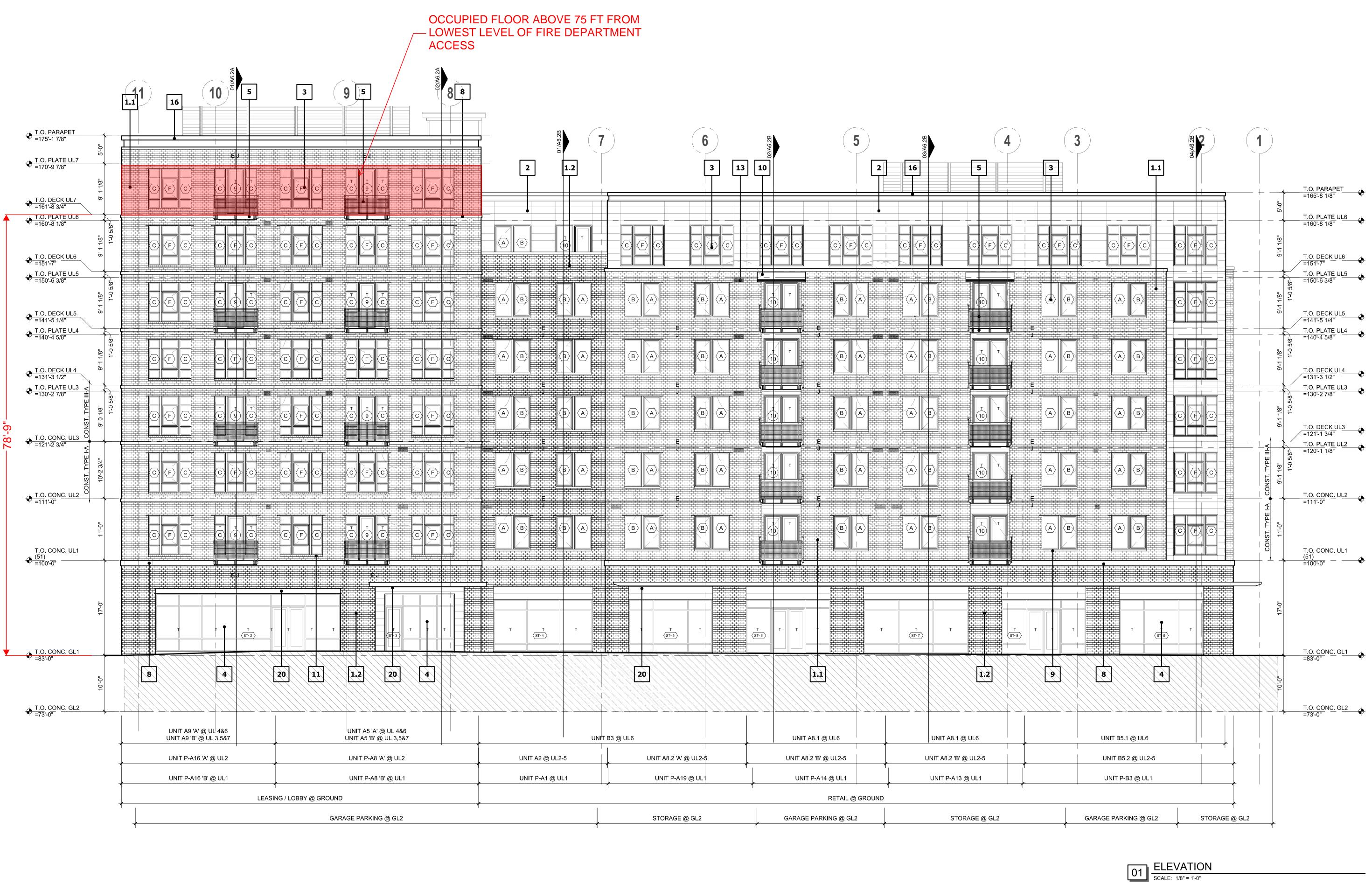
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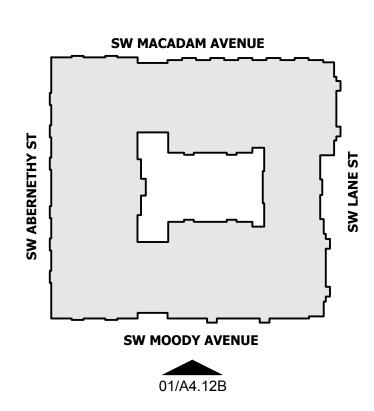


ALAMO MANHATTAN

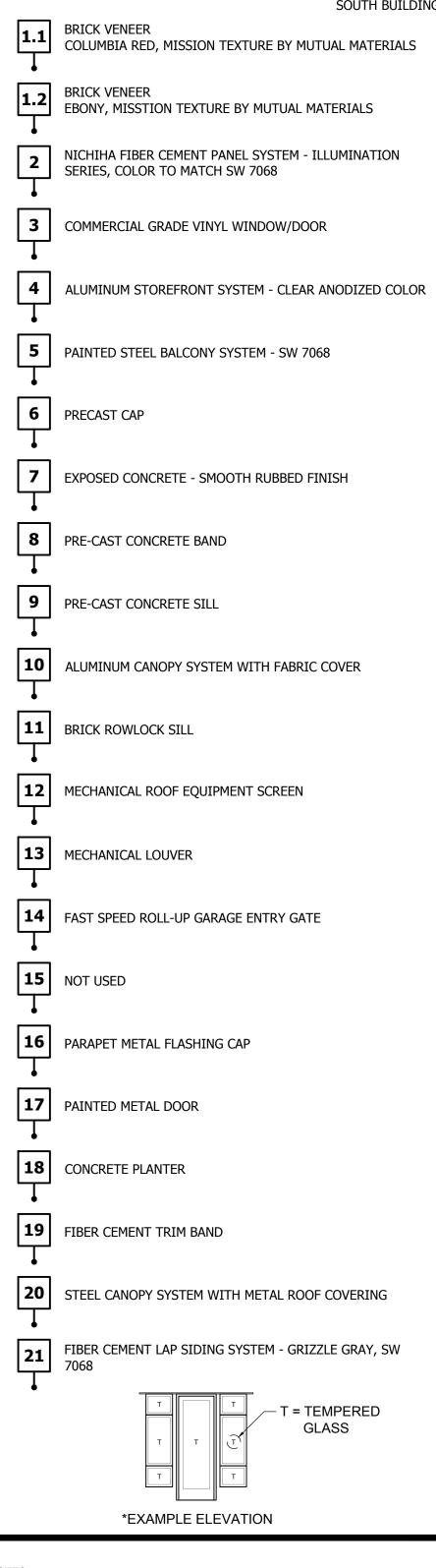


ELEVATIONS





## **ELEVATIONS MATERIAL LEGEND**



1. FLOOR HEIGHTS - GL2 = 10 FT, GROUND = 14 FT, UL1-UL7 = 9 FT. 2. 11-7/8" INCH TGI TRUSSES FOR ALL FLOORS. 3. REFER TO ROOF PLANS FOR ROOF OVERHANG DIMENSIONS.

CITY OF PORTLAND SEAL

SOUTH BUILDING



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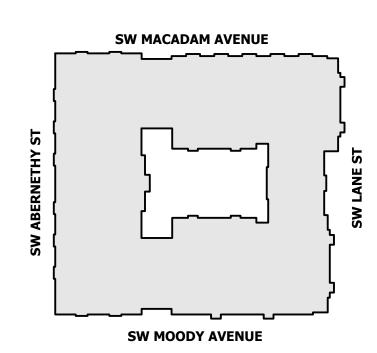
ALAMO MANHATTAN



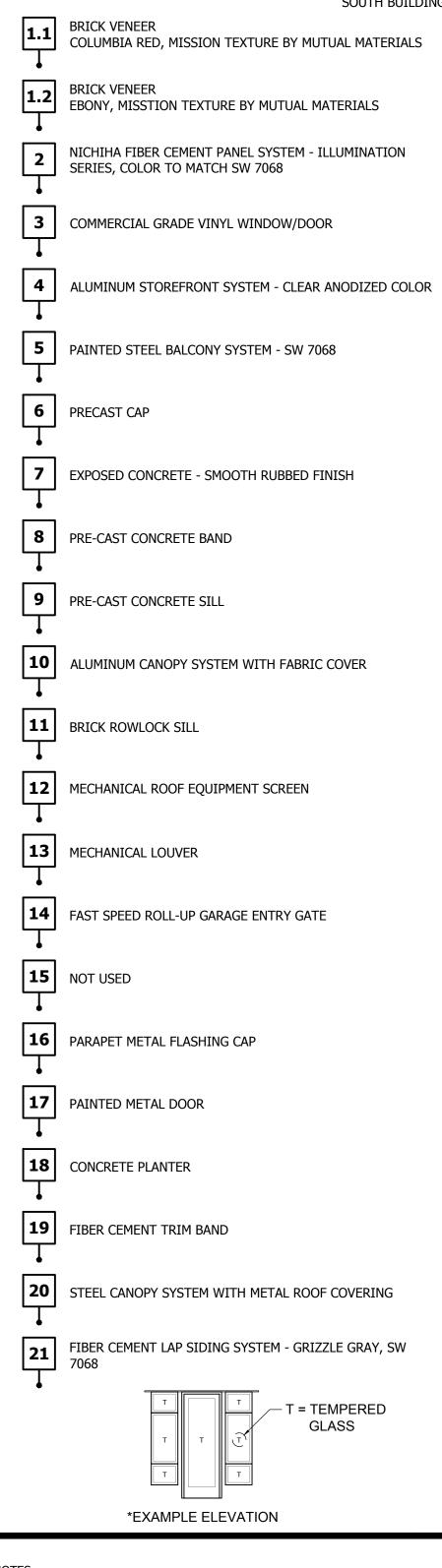
ELEVATIONS

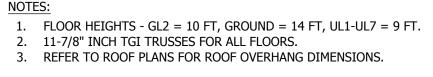


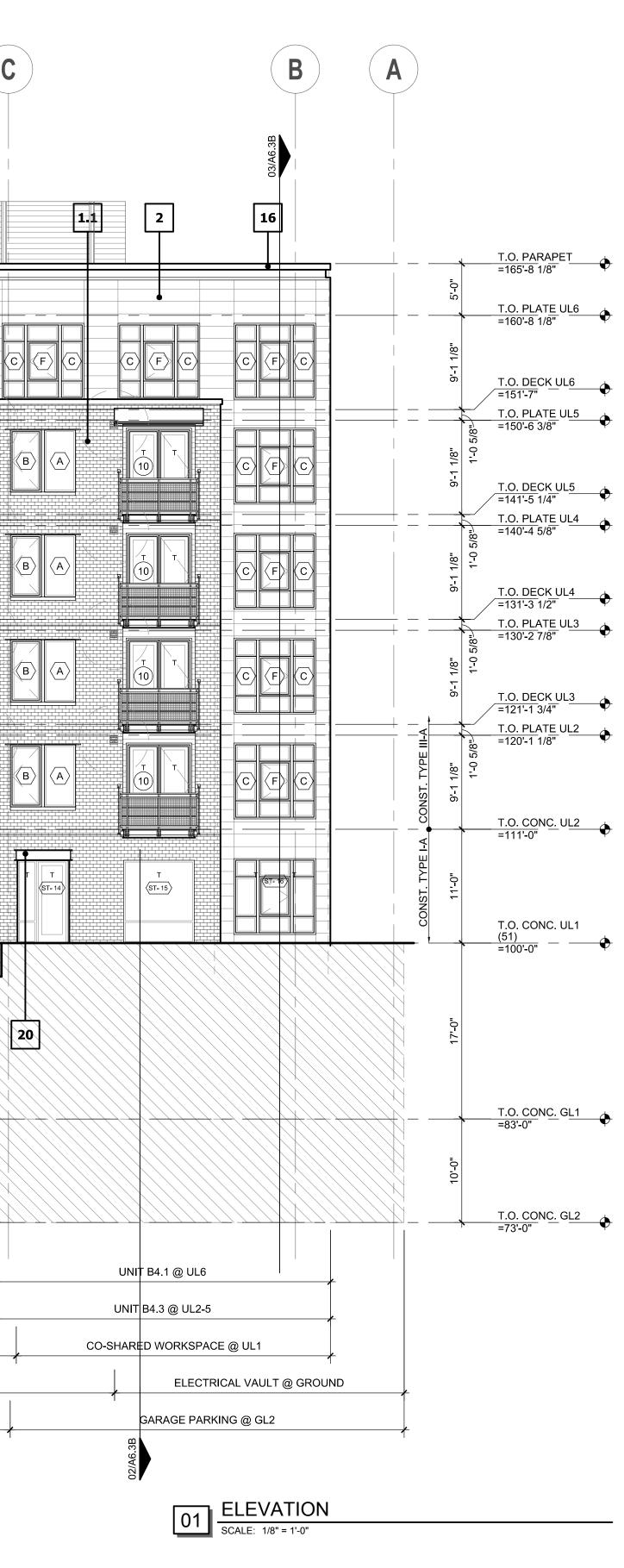
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5 16	3	5	VE:99/80	-	4.06.94		5		3	3
	EF									
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	EF									
	EF									
	T (\$T-36)				T (ST-34)			T (ST-13)		
	T (ST-12)							4	8	
			E E		12	<b>51</b>				
1 @ UL6		ROOF T	ERRACE @ UL6				CLUB ROOM	@ UL6		
@ UL2-5		UNIT A11 @ UL2-5				UNIT B1 @ UL2-5				
2 @ UL1		COUR	TYARD @ UL1				FITNESS	@ UL1		
			STAIR #3 @ GI		STAIR #3	ELECTRICAL ROOM @ 0			ROUND	I
	02/A6.3A		, STORAGE	@ GL2	@ GL2	+	STORAGI	E @ GL2 86.9A/10		



## **ELEVATIONS MATERIAL LEGEND**







CITY OF PORTLAND SEAL



SOUTH BUILDING



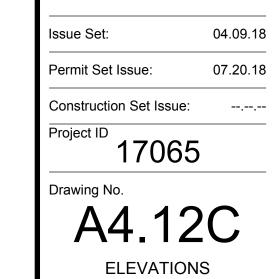
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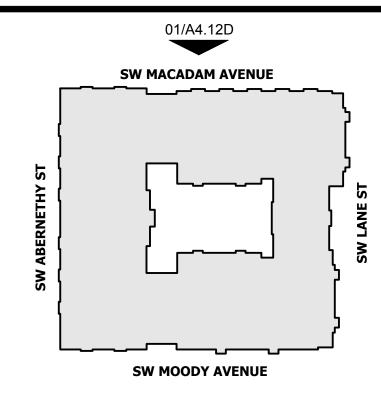
Project Title:



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## **ELEVATIONS MATERIAL LEGEND**

01 ELEVATION SCALE: 1/8" = 1'-0"

CITY OF PORTLAND SEAL

SOUTH BUILDING



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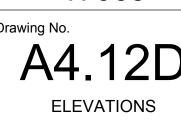
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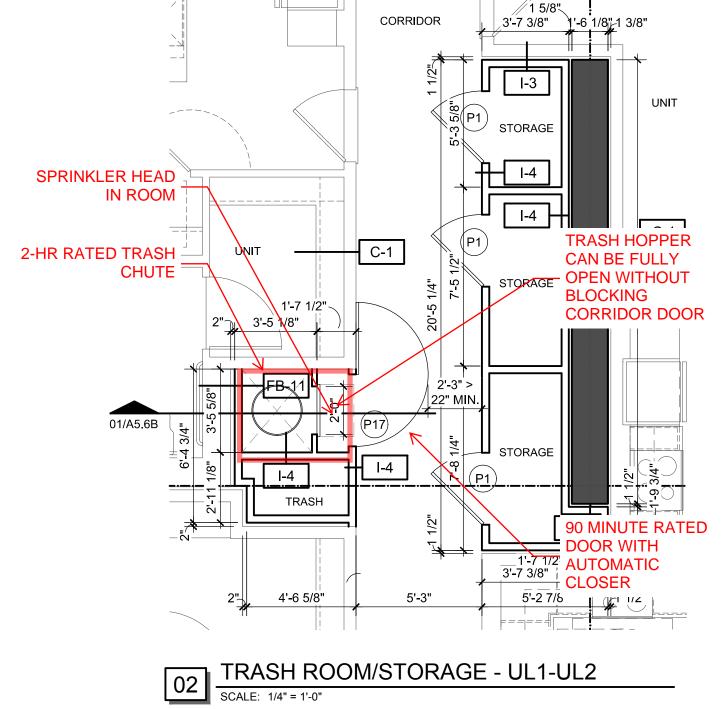
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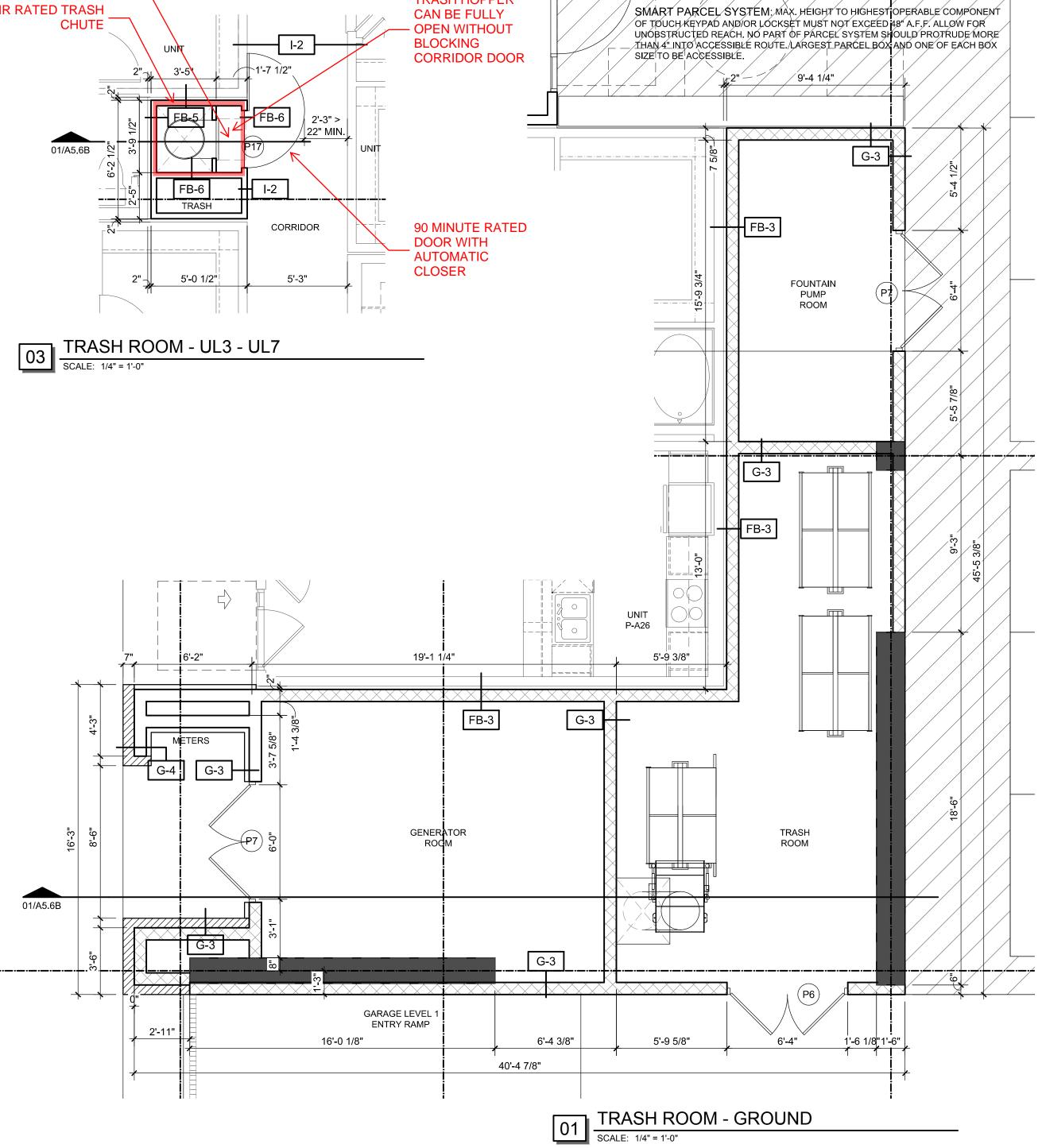


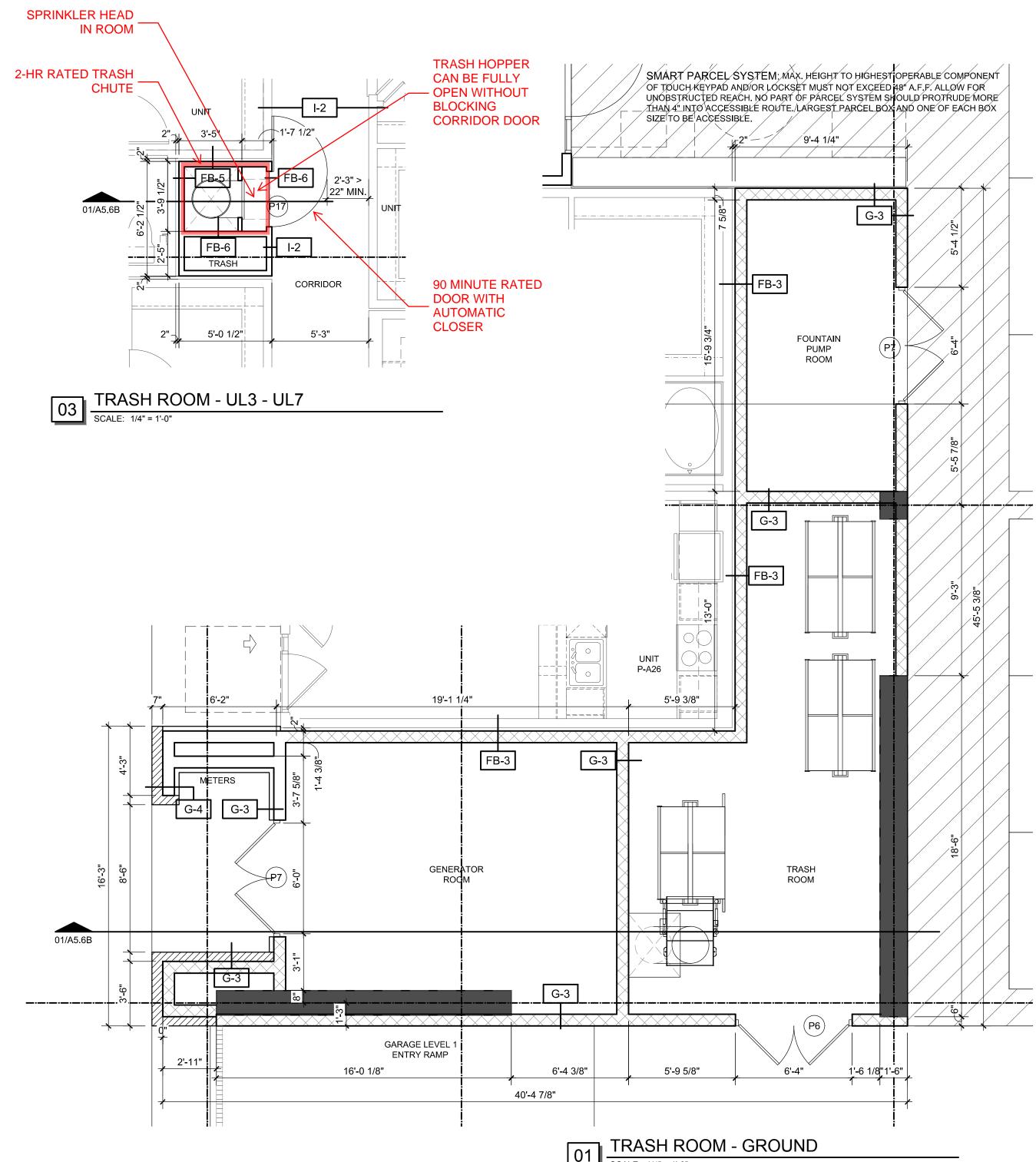
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Project Title:
E2 BLOCK 40
BLOCK 40
OREGON ALAMO MANHATTAN
Issue Set: 04.09.18
Permit Set Issue: 07.20.18
Construction Set Issue: Project ID 17065
Drawing No.
A5.6A
TRASH ROOM FLOOR PLANS



### Notice of Temporary Rule October 1, 2018

**OSSC: Emergency Responder Radio Coverage** 

### **Purpose of the rules:**

This rule provides predictable uniform standards regarding the installation of construction components for emergency responder radio coverage.

### **Citation:**

Amend: OAR 918-460-0110 This rule becomes effective October 1, 2018.

### History:

The division received complaints from industry regarding the predictability and application of the emergency responder radio coverage provisions in the state building code. After examining the issues, the division determined that the best course of action was to remove the sections of the code that were creating the unpredictable environment and causing confusion. Accordingly, the division repealed sections 403.4.5 and 915.1 from the Oregon Structural Specialty Code (OSSC). This information was presented to the Building Code Structures Board (board) on February 24, 2016. At the board meeting it was determined the Office of State Fire Marshal would create a workgroup to develop a checklist to resolve industry complaints. During the board meeting, the division was informed that the workgroup would be able to develop the checklist in a relatively short period of time. The workgroup presented their checklist to the division in May 2016, but the division was unable to confirm the proposal had stakeholder support. The proposal was therefore presented again to the board on August 3, 2016, where the board approved the proposal with division recommended amendments.

During the August 3, 2016, meeting, questions regarding the legal authority to print the required code provisions were raised. The division then sought and received legal advice that all construction provisions would need to be printed in the OSSC. The division then proceeded to reformat the August 3 rule and moved all proposed construction provisions related to emergency responder radio coverage into the OSSC. The new format was presented to the board on November 2, 2016, for additional stakeholder feedback. The division informed the board that adopting this rule was critically important to emergency personnel, and to prevent a further delay, the checklist and rules were going to be adopted as a temporary rule on November 3, 2016. The division also requested board approval for the rules to be sent to public hearing. The board suggested additional technical changes and recommended that the proposal be adopted as a temporary rule and approved the proposal for a public hearing, with the understanding that the board would have an additional opportunity for review before the rules became effective as permanent rules. The division adopted temporary rules on November 3, 2016.

The division had planned on adopting a permanent rule to replace the November 3, 2016, temporary rule. The division did not adopt a permanent rule at that time because the authority of the division to adopt rules in this area was challenged by the Office of State Fire Marshal and the Department of Administrative Services through the Strategic Interoperability Extension Council. This development was communicated to the board at its February 1, 2017, meeting. Subsequent to the February 1, 2017, meeting, the division received confirmation and clarification from the Oregon Department of Justice (DOJ) regarding the division's ability to adopt rules for construction requirements for emergency responder radio coverage. The division filed temporary rules which contained the changes in accordance with the guidance provided by DOJ which became effective on May 2, 2017.



The May 2, 2017, temporary rules were intended to maintain the requirements for construction components for emergency responder radio coverage while allowing time for remaining jurisdictional issues to be resolved and for the division to go forward with permanent rulemaking. During that temporary rule period the division filed a notice for permanent rulemaking and held a public hearing on September 19, 2017. The public comment period for the rulemaking closed on September 22, 2017.

The division continued to work with the fire service and other industry stakeholders to refine the requirements and applicability of the relevant OSSC sections and the associated form for ERRC construction components. Previously, at the November 2, 2016, meeting, the board also requested an additional review before the division adopted a permanent rule. Resolution of the outstanding issues and the additional requested board review were not able to be completed before the May 2, 2017, temporary rule expired, and the division adopted a temporary rule on October 29, 2017.

To maintain consistent and predictable requirements for ERRC, the division adopted the ERRC construction component requirements as a temporary rule, effective April 27, 2018. This ensured that the previous requirements did not lapse and would provide additional time for the board to review the final permanent rule. As a result of the ongoing discussions on this issue, the code changes adopted by the April 27, 2018, temporary rule differed from the previous temporary rule in several ways. These code and form changes included:

- General clarification of terms and removal of redundant language.
- Added language to address battery systems.
- Added requirement for protection of pathways within a single floor level.
- Removed FCC license holder verification.

The specific code section changes are as follows:

- Reinstate OSSC Sections 403.4.5 and amended 915.1.
- Adopt OSSC Sections 915.1.1, 915.2, and 915.3.
- Amend OSSC Section 907.2.13.2.
- Adopt form OSSC 915.

The division presented and received final approval from the board for the April 27, 2018, temporary rules to be adopted as permanent rules at the board's August 1, 2018, meeting. Following the August 1 board meeting the division held an additional public information meeting on September 25, 2018, to collect additional public testimony, and ensure that the proposed permanent rules met the fire and life safety needs of the fire service. Without the approval of the fire service the division will not adopt the rules as permanent rules. Additionally, due to an administrative issue the division needs to adopt an additional temporary rule which renumbers the ERRC amendments from 918-460-0015 to 918-460-0100.

### Effect of the rules:

This rule updates the Oregon Structural Specialty Code for emergency responder radio coverage construction provisions.

### **Contact:**

If you have questions or need further information, contact Richard Rogers, Chief Building Official, at 503.378.4472, or <u>richard.rogers@oregon.gov</u>.

#### 918-460-0110

#### **Emergency Responder Radio Coverage**

(1) In addition to the amendments in OAR 918-460-0015 the Oregon Structural Specialty Code is amended pursuant to OAR chapter 918, division 8 showing the section reference, a descriptive caption, and a short description of the amendment.

(2) Effective May 2, 2017, for new construction standards related to emergency responder radio coverage, Oregon Structural Specialty Code Sections 403.4.5, 907.2.13.2, 915.1, 915.1.1, 915.2, and 915.3 are adopted and amended. Form OSSC 915, which contains the minimum necessary required information for departments to consider building new construction standards related to emergency responder radio coverage, is adopted. No building official may authorize construction standards that would exclude emergency responder radio coverage unless proper authorization is provided in a complete Form OSSC 915.

[Publications: Publications referenced are available from the agency.]

Stat. Auth.: ORS 455.030, 455.110 Stats. Implemented: ORS 455.110 Hist.: BCD 24-2018(Temp), f. 9-28-18, cert. ef. 10-1-18 thru 3-29-19

#### Emergency Responder Radio Coverage Oregon Structural Specialty Code

#### **Proposed Code Changes**

Text denotation:

<u>Underline</u> denotes new text, strikethrough denotes deletion

#### SECTION 915 CONSTRUCTION FOR EMERGENCY RESPONDER RADIO COVERAGE

**915.1 General.** When required by the fire code official this section, construction components for emergency responder radio coverage shall be provided in <u>all</u> new buildings <u>which meet one</u> of the following criteria: in accordance with Section 510 of the Fire Code.

- 1. <u>Any building with one or more *basements* or below-grade building levels.</u>
- 2. Any underground building.
- 3. Any building more than five stories in height.
- 4. Any building 50,000 square feet in size or larger.

For information about coverage requirements regulated and enforced by the fire official, see Section 510 of the Fire Code.

<u>915.1.1 Exceptions. A building meeting the criteria listed in Section 915.1 may be excepted</u> from emergency responder radio coverage construction requirements for the following reasons:

**<u>1. Where approved by the building official, in consultation with the fire official, a</u> wired communication system in accordance with Section 907.2.13.2 shall be permitted to be installed or maintained in lieu of emergency responder radio coverage construction requirements.** 

2. Where recommended by the fire official and approved by the building official, construction requirements for an emergency responder radio coverage system is not necessary for the specific building based on the fire official's recommendation.

<u>3. Any building listed in Section 915.1 that, through performance testing, meets the radio coverage requirements of Oregon Fire Code Section 510.</u>

<u>915.2 Form OSSC 915.</u> A completed Form OSSC 915 shall be submitted to the building official at the time of initial permit application.

**Exception:** Where portions of the construction documents demonstrating compliance with Section 915 are being deferred in accordance with Section 107.3.4.2, only Parts I and II of

Form OSSC 915 are required to be completed and submitted to the building official at the time of initial permit application.

OSSC Form 915 is available at the following link: www.oregon.gov/bcd/Pages/forms.aspx

<u>915.3 Survivability. The following construction components shall be required as specified</u> for the installation of emergency responder radio coverage systems:

- 1. <u>All signal booster components shall be contained in a National Electrical</u> <u>Manufacturer's Association (NEMA) 4-type waterproof cabinet.</u>
- 2. <u>Battery systems used for the emergency power source shall be contained in a</u> <u>NEMA 3R or higher-rated cabinet.</u>
- 3. <u>All system backbone pathways between signal boosters, donor antennae and</u> secondary power supplies and between head end and remote units for fiber based systems shall be protected by a shaft enclosure in accordance with Section 713.
- 4. <u>Primary cable riser pathways between floors shall be protected in shaft enclosures</u> <u>constructed in accordance with Section 713.4 or an approved equivalent.</u> <u>Connections between riser and feeder cables shall occur within the shaft enclosure.</u>

### SECTION 403 HIGH-RISE BUILDINGS

**403.4.5 Construction for emergency responder radio coverage.** <u>Construction components</u> <u>for emergency responder radio coverage shall be provided in accordance with Section 510 of</u> <u>the *Fire Code* 915 unless otherwise exempted by this code.</u>

### SECTION 907 FIRE ALARM AND DETECTION SYSTEMS

907.2.13.2 Fire department communication system. Where a wired communication system is <u>permitted by the fire official and approved by the building official approved</u> in lieu of an emergency responder radio coverage system in accordance with Section 510 of the Fire Code 915, the wired fire department communication system shall be designed and installed in accordance with NFPA 72 and shall operate between a fire command center complying with Section 911, elevators, elevator lobbies, emergency and standby power rooms, fire pump rooms, areas of refuge and inside enclosed exit stairways. The fire department communication device equipment shall be provided at each floor level within the enclosed exit stairway. Approval of a wired communication system must be documented on Form OSSC 915 in accordance with Section 915.

### State of Oregon Form OSSC 915 Emergency Responder Radio Coverage (ERRC) Checklist

For use to determine compliance with 2014 OSSC 403.4.5 and 915.

This checklist provides the minimum necessary required information and shall be provided to the local Building Code Official at time of building permit application where a proposed new building meets any one of the following criteria

- 1. Any building with one or more basement or below-grade building levels (OSSC 915).
- 2. Any underground building (OSSC 915).
- 3. Any building more than five stories in height (OSSC 915).
- 4. Any building 50,000 square feet in size or larger (OSSC 915

4. Ally bull	unig 50,000 square is	tet in size of larger (05	50 915					
Part I         Project Information (to be completed by permit applicant or representative)								
Applicant or rep	presentative name:	Jeancarlo Saenz			Phone number:	972.726.9400		
Project name:	E2, Block 40							
Address / locatio	on: 3838 SW Maca	dam Avenue						
Building height:	84 ft				Construction ty	pe: I-A & III-A		
Number of floor	s below grade: 1.5	Number of floor	s above grade:	7.5 B	Building square foota	age: 234,904 s.f.		
Acknowledgement: I understand, unless exempted by the building official, this project is required to comply with the construction requirements for emergency responder radio coverage systems, and that a building permit cannot be issued without this form being properly completed. If the project is an approved deferred submittal, only Parts I and II need to be completed at the time of permit application. I also understand that the fire official may waive the ERRC requirements. I have consulted with the local fire official.								
ippicane, rep	resentative signatur				Date			
Part II	Deferred Submit	tal (signed by local fir	e official, permit d	applicant a	and building official)			
By signature below, the designated parties acknowledge that ERRC compliance documentation for this project is being deferred (see OSSC 107.3.4.2). As provided by Section 915.2, only Parts I and II need to initially be completed. Parts III through VII of this form must be completed as necessary to demonstrate compliance and be submitted to the building official when appropriate in the deferred submittal process. 10.29.18								
Applicant/Repr	esentative	Date	Building Offi	cial		Date		
	x							
Local Fire Offic	ial / Title / Jurisdicti	on			Date			
Part III	Local Fire Officia	al Requirement (to be	e completed by the	e Fire Cod	le Official)			
<ul> <li>Does the local fire official require an Emergency Responder Radio system?</li> <li>Yes If yes, complete Part IV Technical Criteria.</li> <li>No If no, indicate the reason below and return this form to the Building Official for approval.</li> <li>Wired communication system is being installed.</li> <li>Other (specify):</li> </ul>								

Part IV Technical Criteria (to be completed by the local fire official)

The following technical criteria are provided to aid in design where equipment is necessary to achieve compliance. This part may not be able to contain all necessary information and additional information may be required. This information is required as a condition of building permit issuance, but it is not adopted or made part of the state building code. If part of a deferred submittal, this section must be completed when appropriate in the process.

Technologies Used / Frequencies / Channels Required:

FCC License Holder for Emergency Radio frequency:

Contact Person / Phone Number:

Location and Technical Specifications of Agency Antennas Available at:

FCC Frequency Holder Special Requirements for Equipment:

Repeater type(s):

Minimum distance to closest repeater:

Effective radiated power of donor site:

Specific standards for maximum spurious oscillation levels:

Any other specific criteria:

Anticipated frequency changes:

Specific testing requirements:

Legal agreement required with FCC license holder? 
Yes No

Plan and specification submittal required?  $\Box$  Yes  $\Box$  No

Additional local information is attached.

**Part V** System Design (to be completed by the applicant and FCC license holder)

Systems must comply with local fire service requirements, Section 510 of the fire code, FCC rules, and all conditions of FCC license holder use agreements. This information is required as a condition of building permit issuance, but it is not adopted or made part of the state building code.

**System Type:** DAS with signal booster

Signal Booster Make / Model:

**Donor Antenna Type:** 

Proposed Frequency Range or Number of Channels:

#### Part VI Building Official Approval

Where Emergency Responder Radio Coverage is required by the fire official, the building official regulates the ERRC construction components through the state building code. Only a building official may waive the construction requirements after a determination by the local fire official that ERRC is not necessary for the building.

**Building Official Name** 

Signature

Date

Other: Refer to attached letter for proposed

strategy for DAS system



7320 NE St. Johns Road • Vancouver, WA 98665 • 360-574-1366 • Lic# PORTEE1554DK • Fax 360-573-3723

10/23/18

Attention: Plans Examiner

RE: Project: Block 40 "The Ella 2"

It is our intent to provide and install a DAS (Distributed Antenna System) as per Oregon Fire Code section 510.

Raceway and cabling will be installed during construction for a system the extent of which will be discovered during testing of the structure. Testing of the structure using a spectrum analyzer will be performed when the project has been substantially completed and ready for accurate testing of signal strength.

Test results, plans and submittals will be provided with a permit application to the AHJ for review at that time.

Bill Robinson PORTER Electric Inc 7320 NE St Johns Rd Vancouver WA 98665