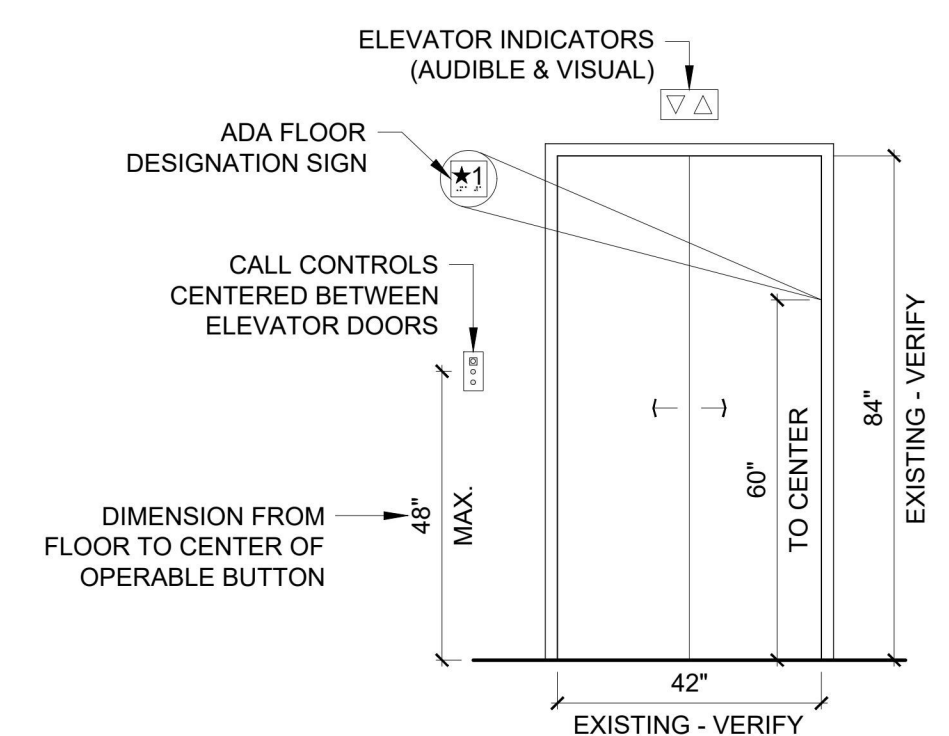
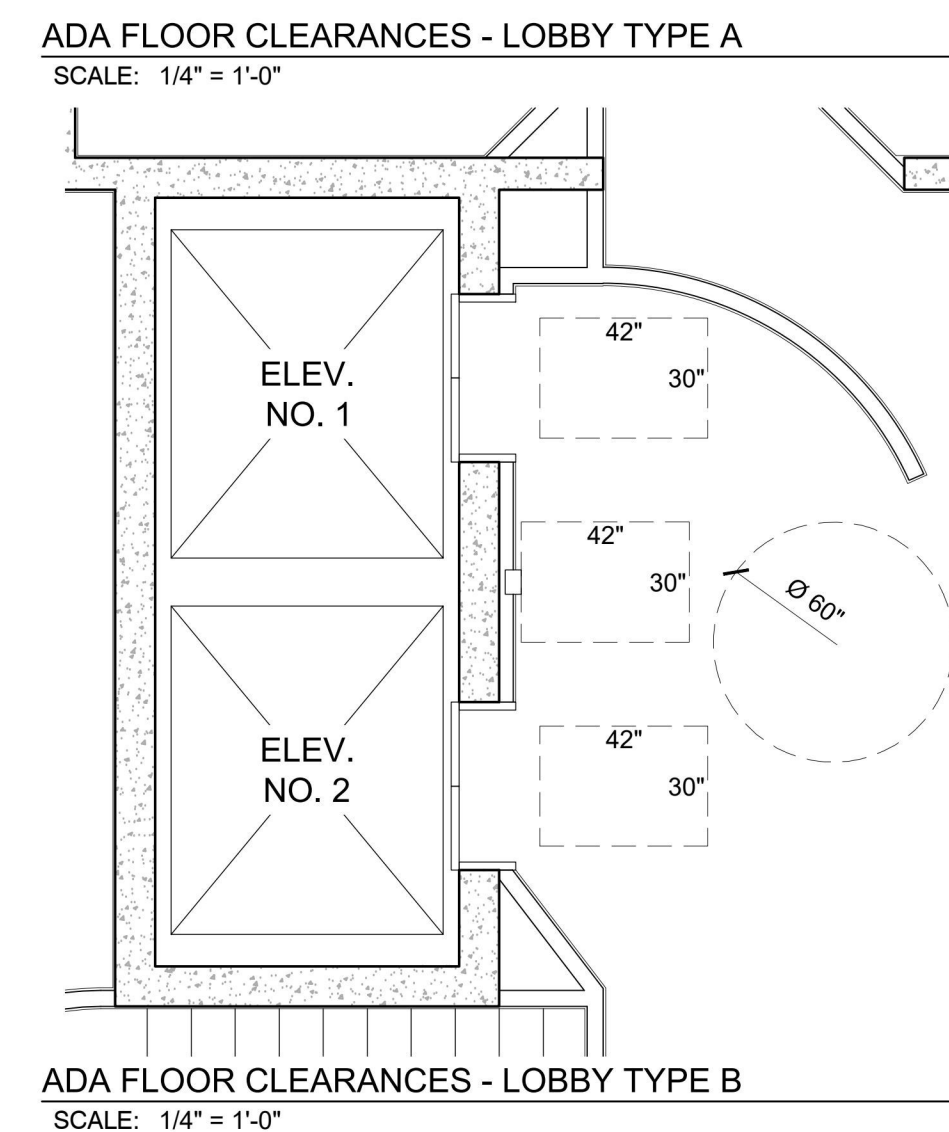
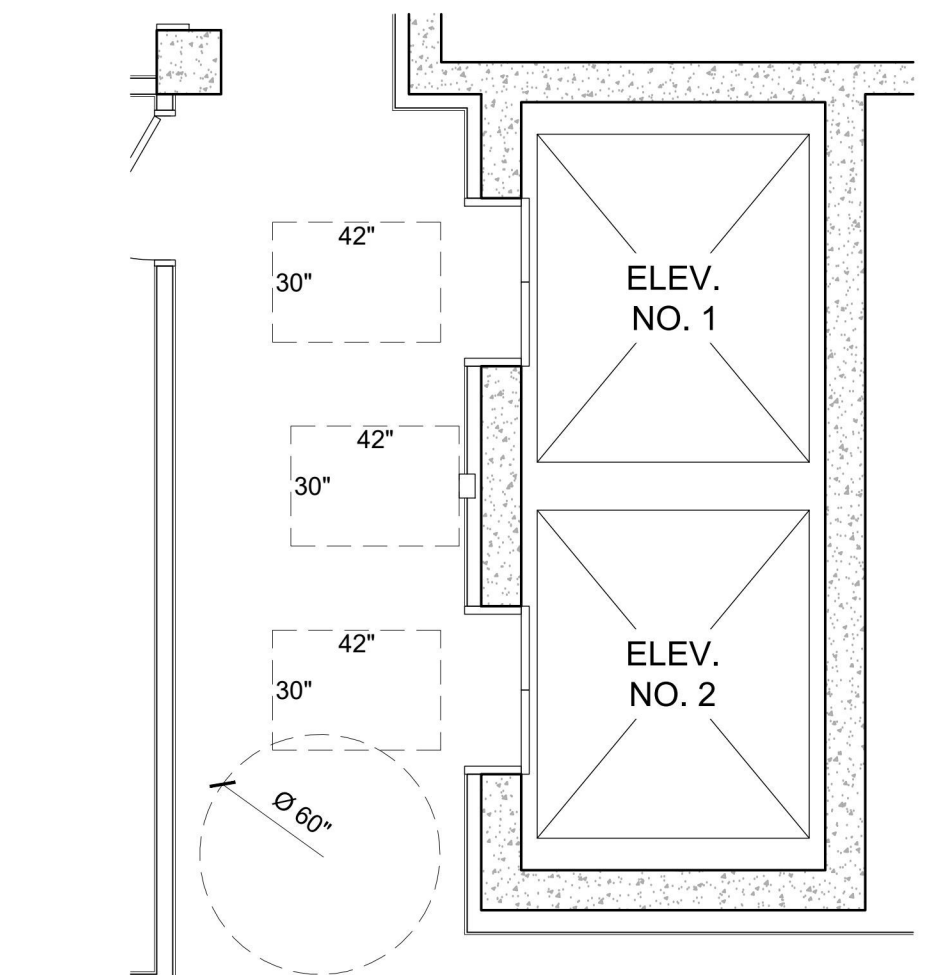


- KEY NOTES:

1. SUMP PUMP PIT LOCATION.
2. REPLACE EXISTING ELEVATOR EQUIPMENT FOR NEW.
3. REPLACE ELEVATOR SHUT-OFFS AS INDICATED ON ELECTRICAL DRAWINGS.
4. REPLACE EXISTING ELEVATOR CABS & HYDRAULICS FOR NEW. REFER TO ELEVATION SPECIFICATION & REPORT.
5. REPLACE EXISTING ELEVATOR CONTROLS.
6. MAINTAIN EXISTING ELEVATOR METAL DOOR FRAMES, RE-PAINT AS DIRECTED, REFER TO PAINT SCHEDULE.
7. INSTALL NEW ELEVATOR INDICATOR LIGHTS, CENTERED & ABOVE DOORS. STYLE TO BE COORDINATED w/ OWNER & ARCHITECT PRIOR TO ORDERING. (TYPICAL @ ALL ELEVATOR DOORS)
8. PREPARE EXISTING CONCRETE FLOOR TO RECEIVE PAINT PER PAINT SCHEDULE AND SPECIFICATION MANUAL.
9. PREPARE EXISTING WALL AND CEILING GYP. BOARD TO RECEIVE PAINT PER PAINT SCHEDULE AND SPECIFICATION MANUAL.



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DEPT. OF ADMINISTRATIVE SERVICES
EXECUTIVE BUILDING
ELEVATOR UPGRADE

REVISIONS:

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DATE:	11-OCT-2019
DRAWN BY:	RMA
CHECK BY:	NDC
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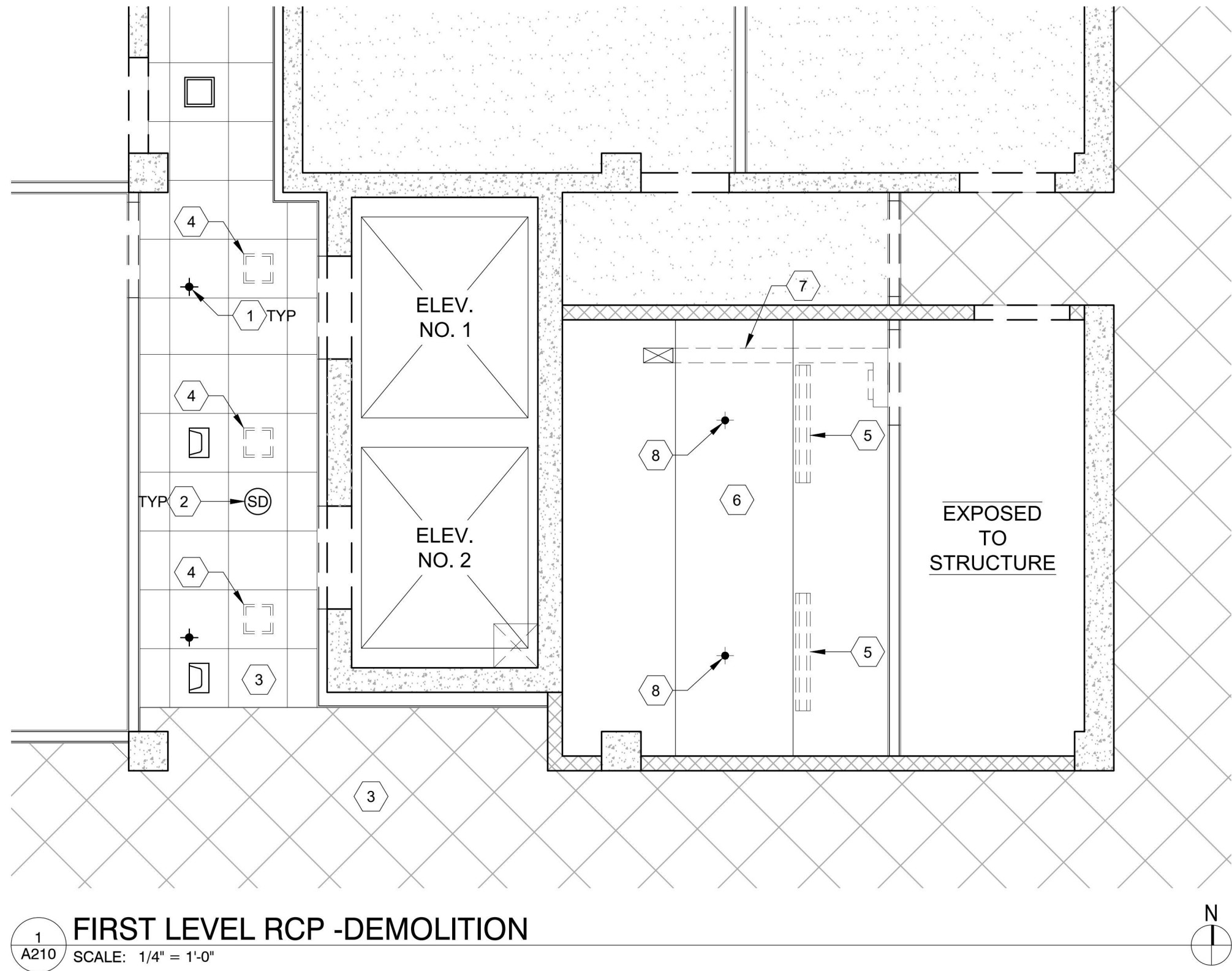
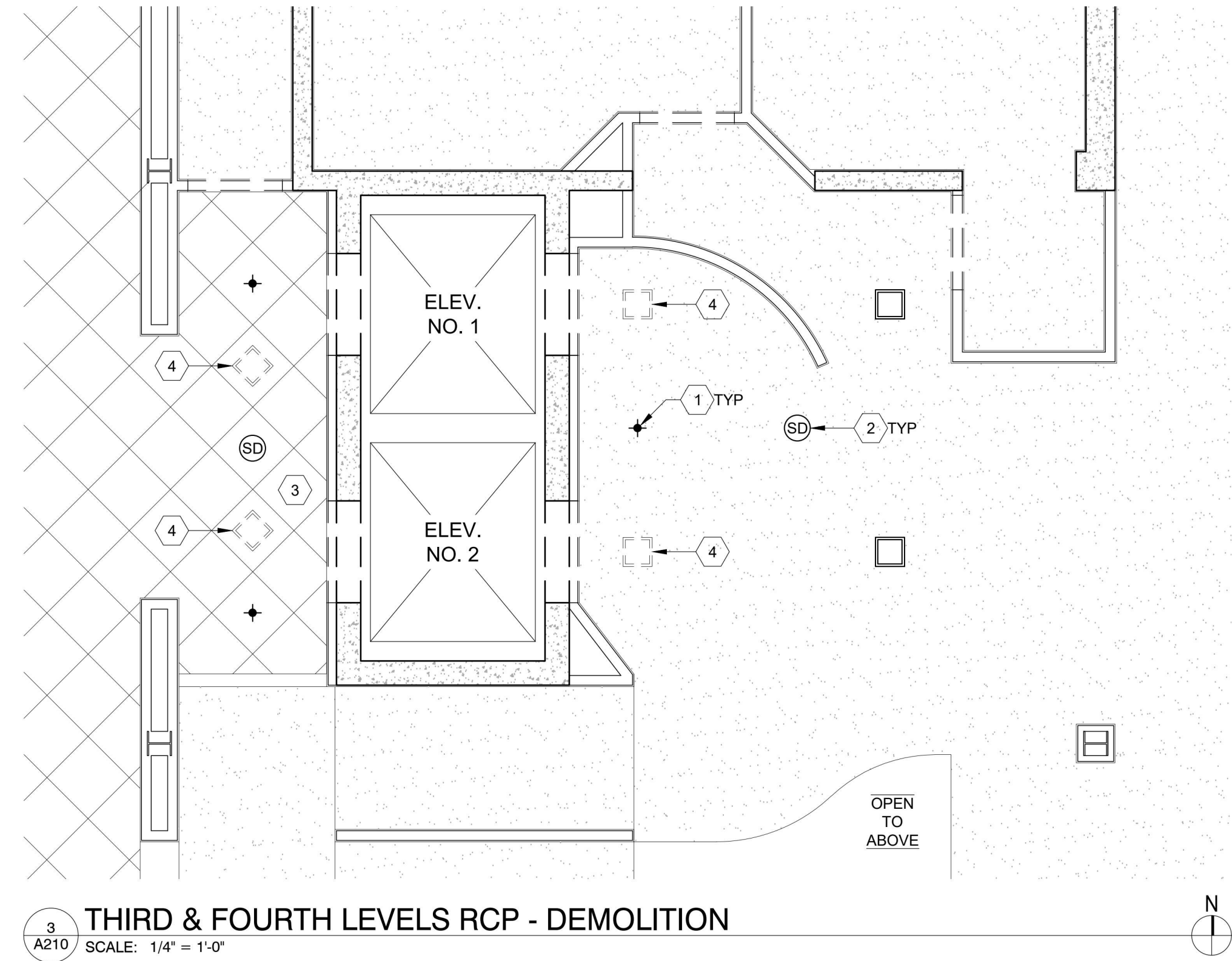
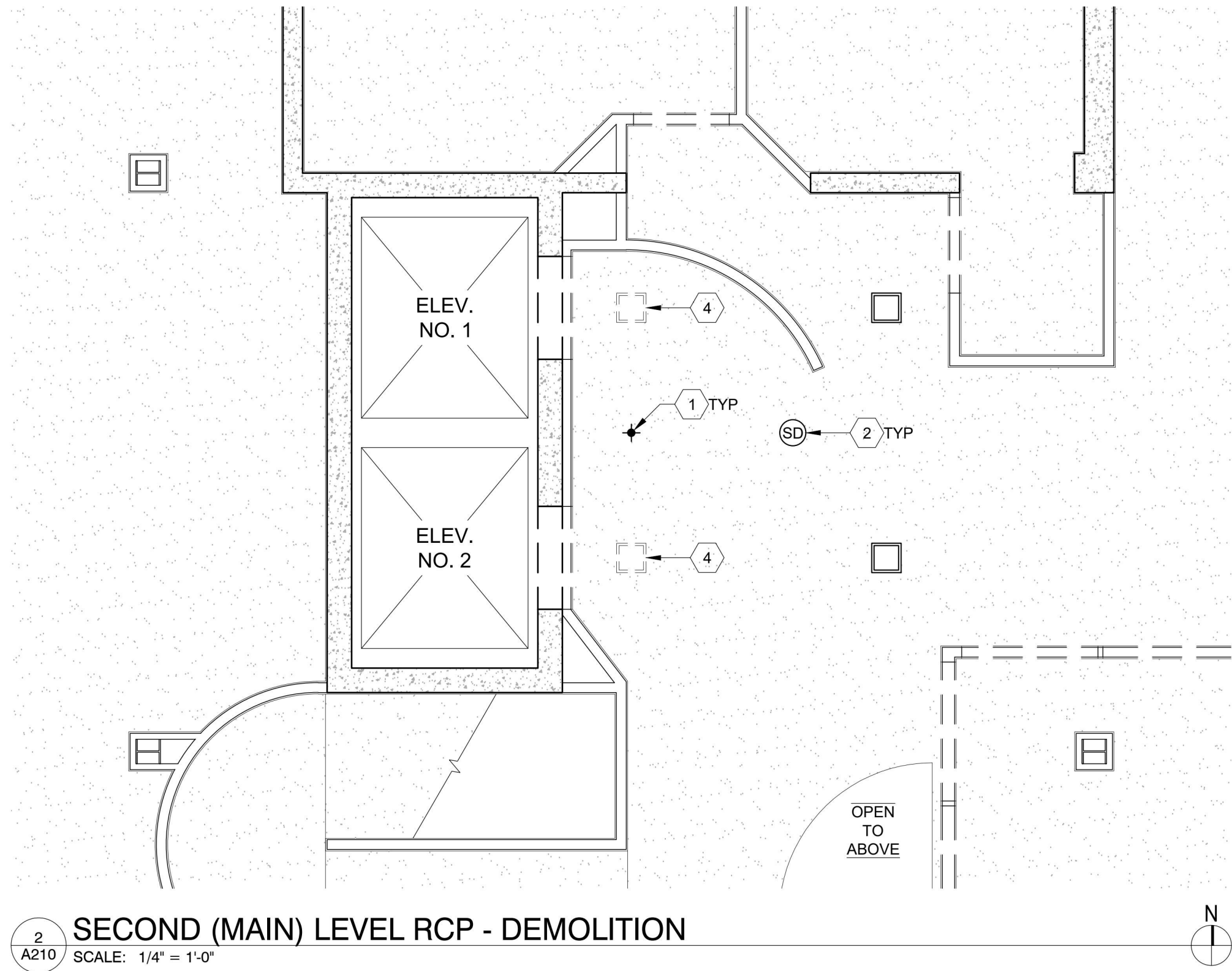
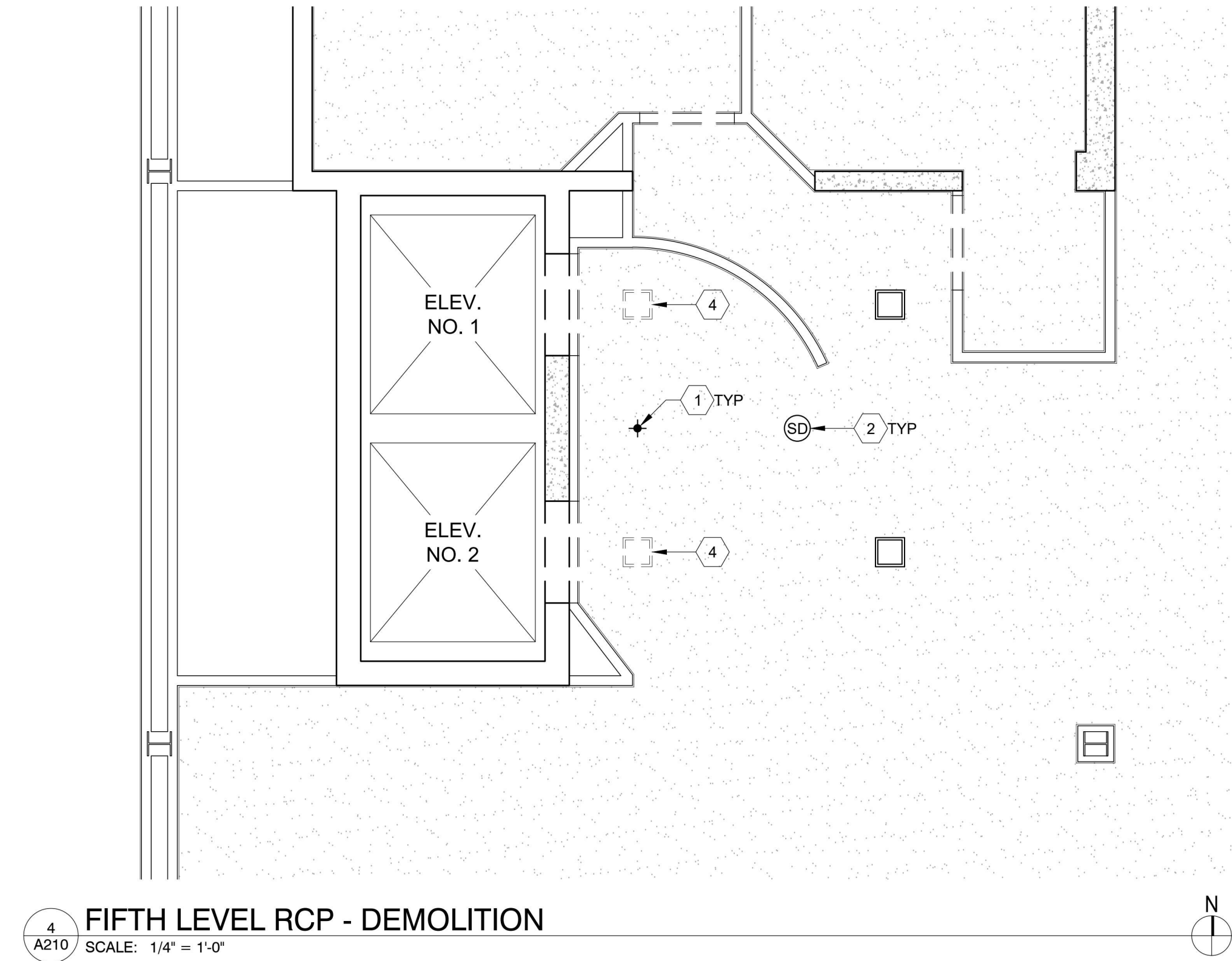
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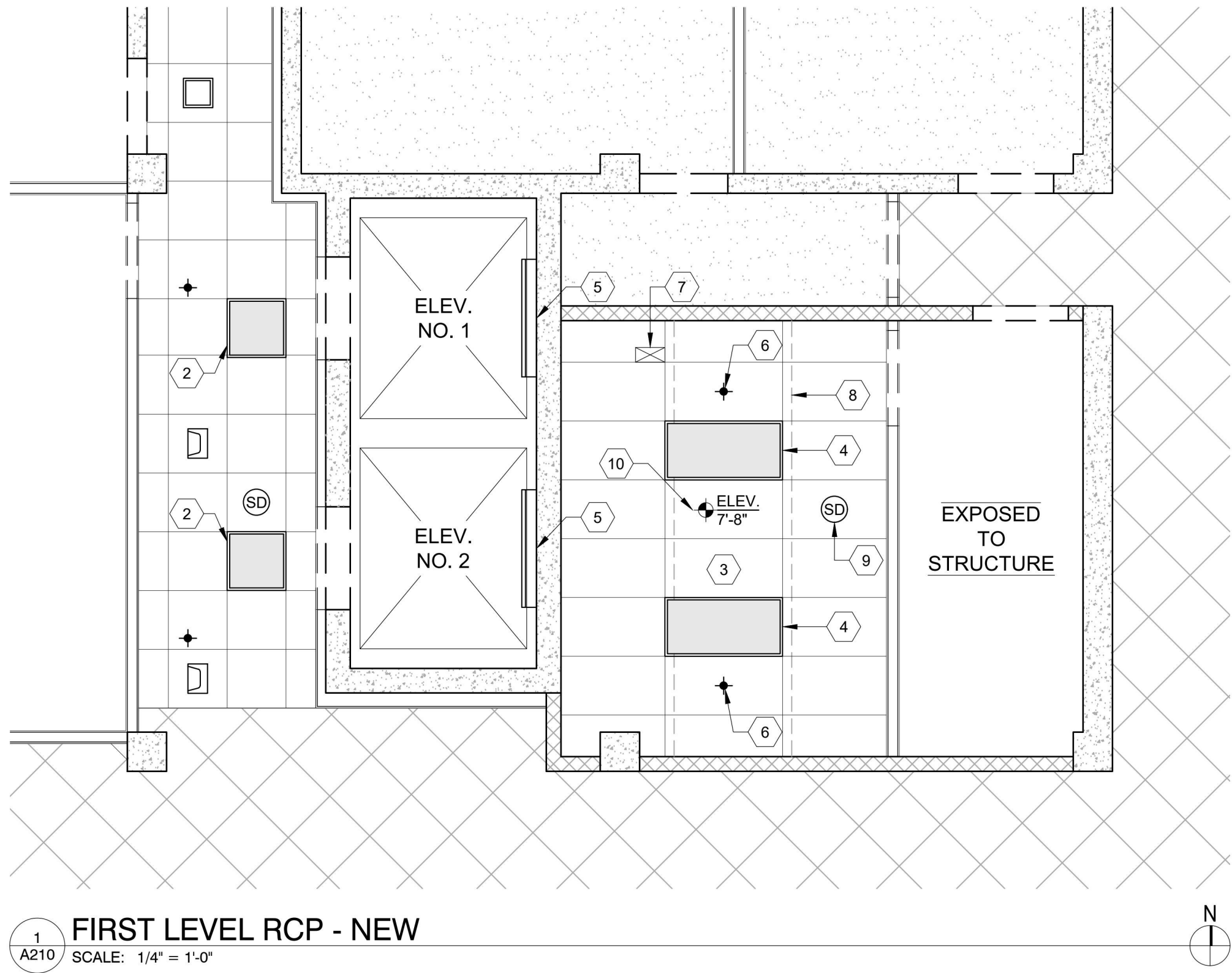
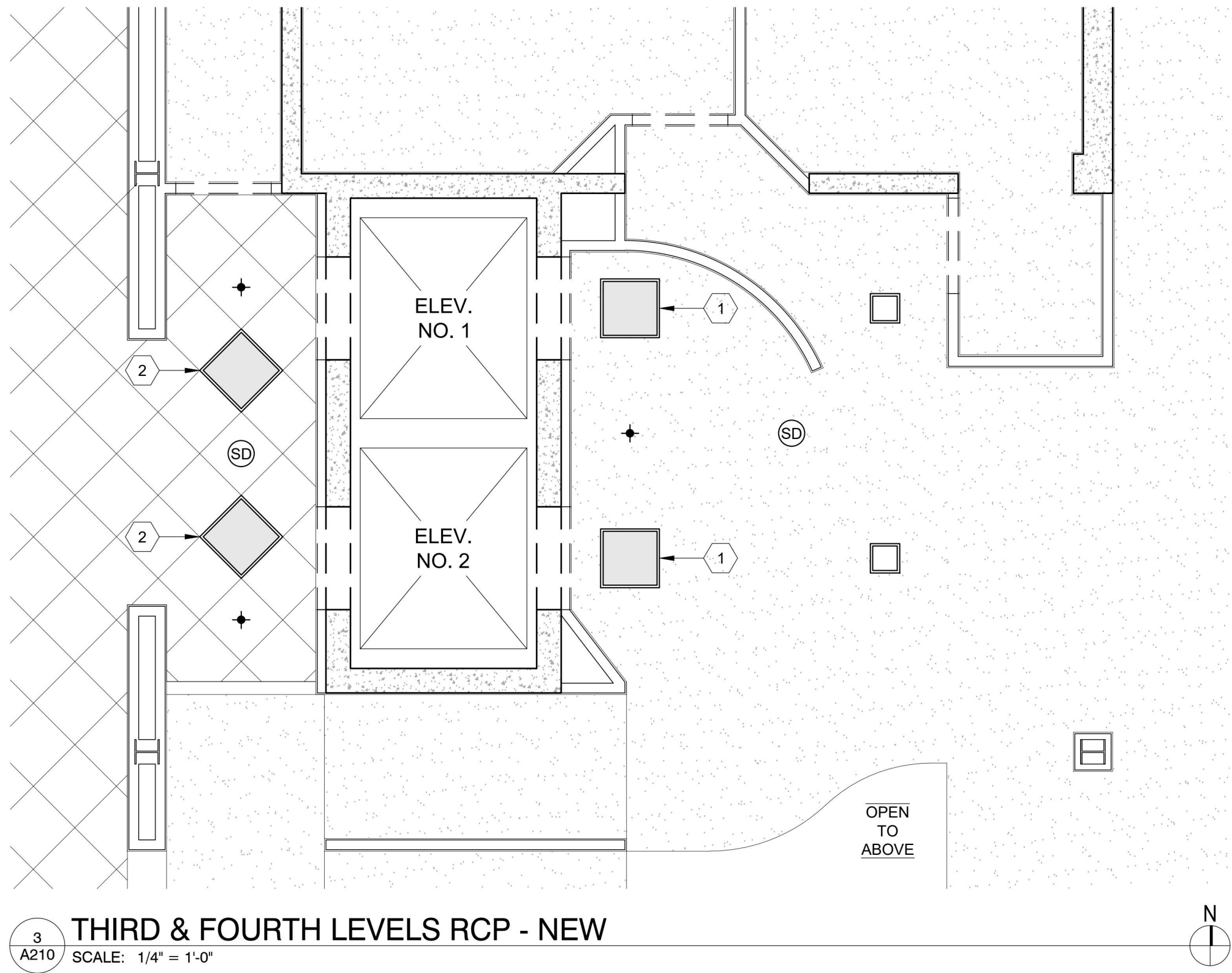
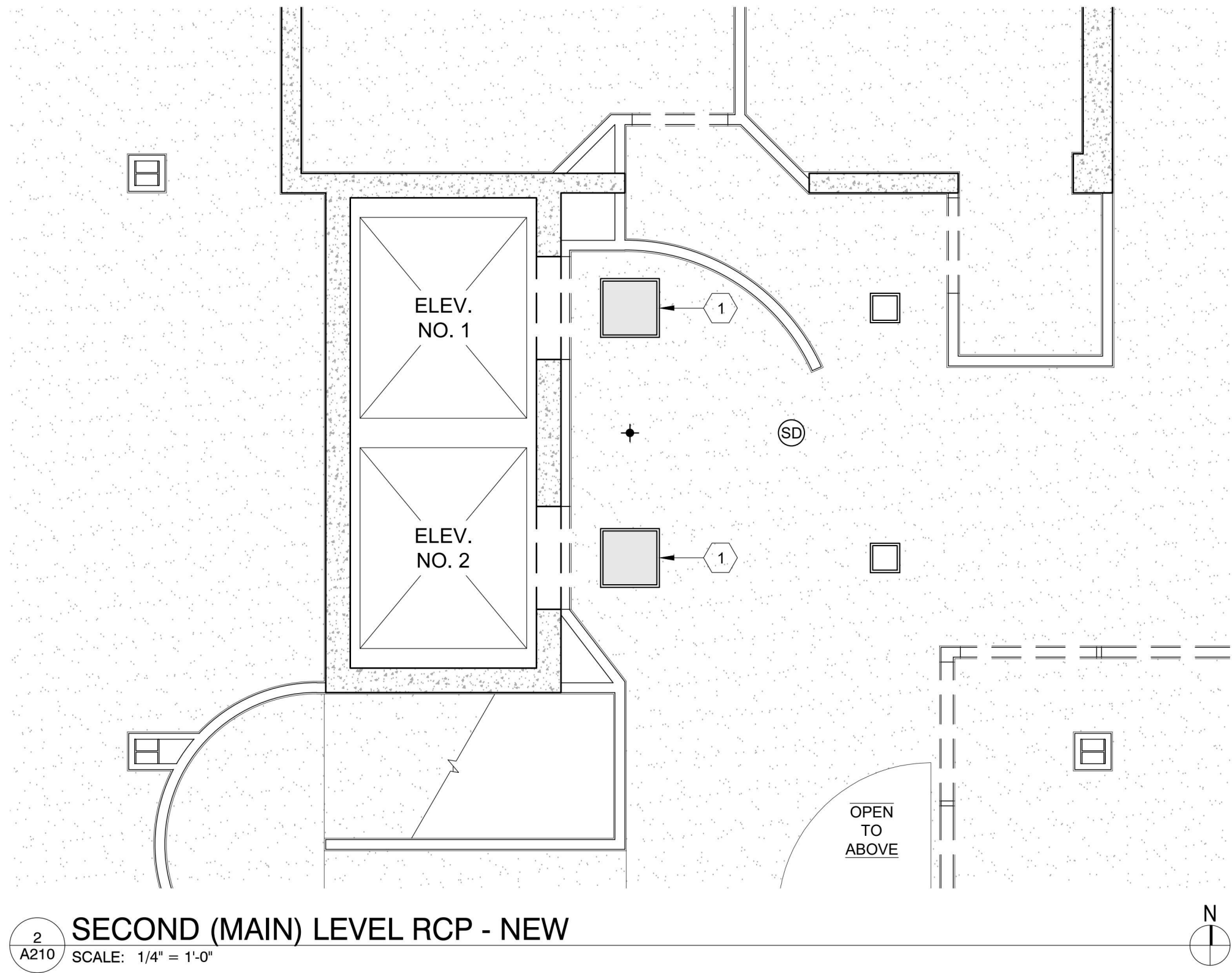
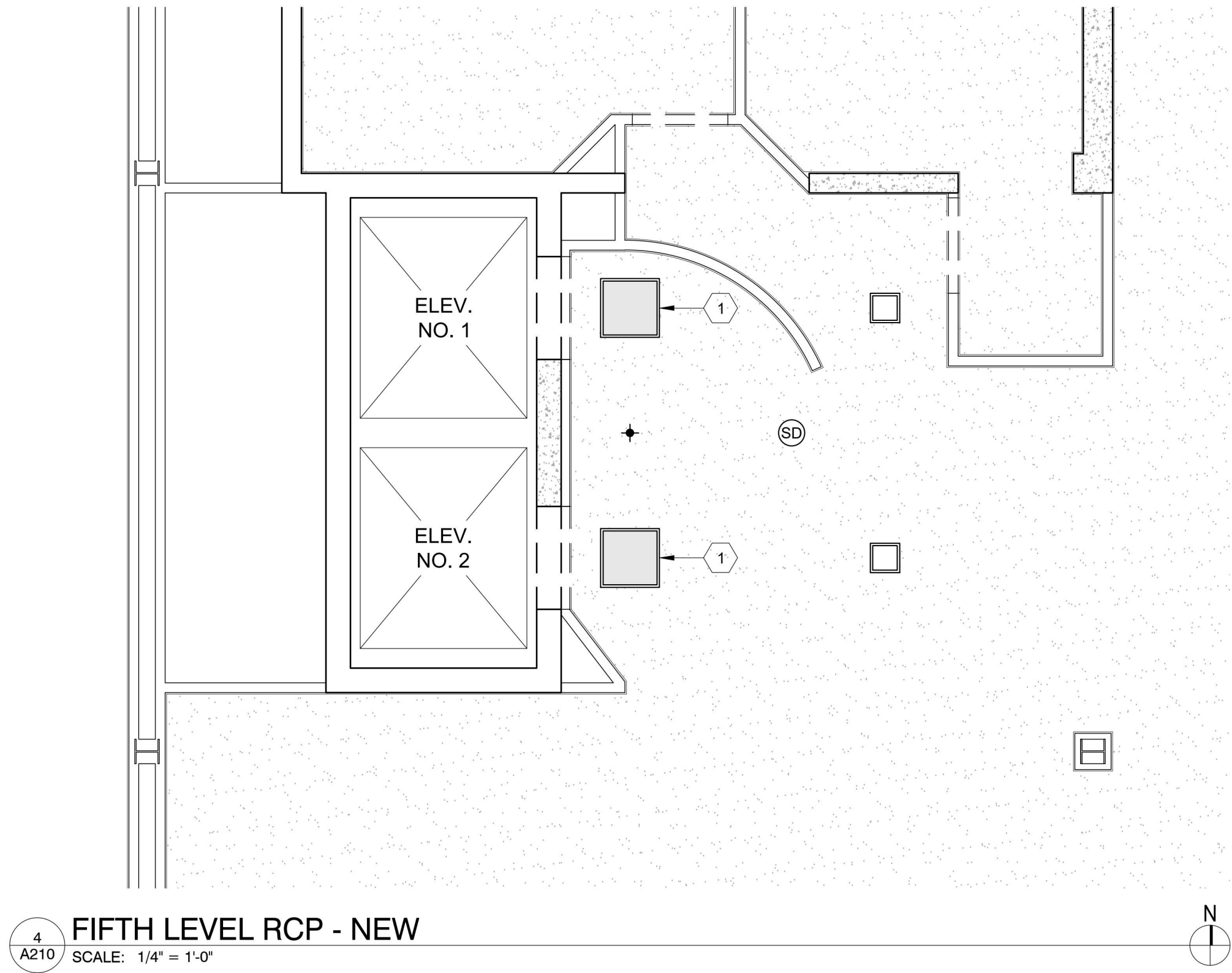
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FULL SIZE PRINT: 22 x 34

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- KEY NOTES:**
- EXISTING FIRE SPRINKLER SYSTEM TO REMAIN AS IS.
 - EXISTING SMOKE DETECTION TO REMAIN AS IS.
 - EXISTING SUSPENDED CEILING GRID TO REMAIN AS IS.
 - REMOVE EXISTING 12x12 LIGHT FIXTURE FOR REPLACEMENT.
 - REMOVE EXISTING 2-TUBE LIGHT FIXTURE.
 - EXISTING HVAC DUCT WORK TO REMAIN AS IS.
 - REMOVE EXISTING EXHAUST VENT DUCT. RECONNECT TO NEW EXHAUST VENT GRILLE, SEE NEW REFLECTED CEILING PLAN.
 - REMOVE EXISTING FIRE SPRINKLER HEADS FOR NEW.

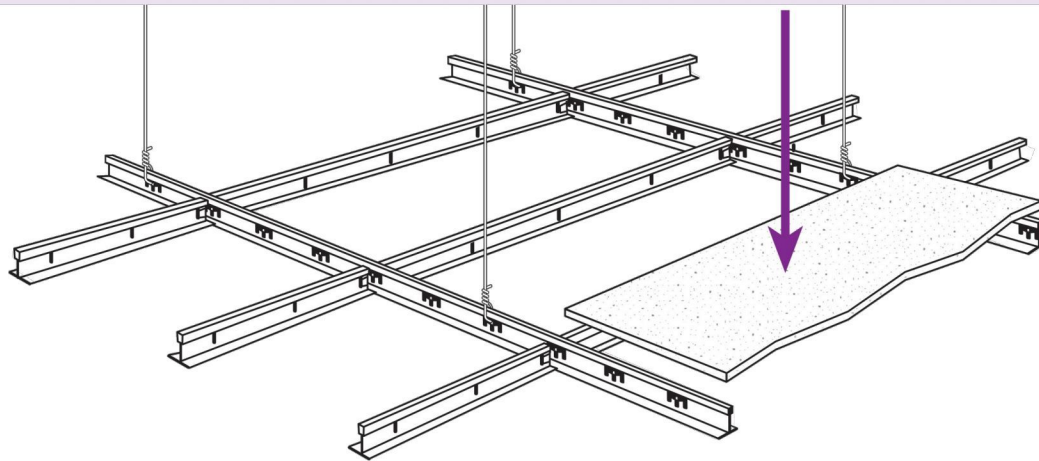


- KEY NOTES:
- 1 NEW 24x24 LED LIGHT FIXTURE. PATCH & PAINT EXISTING GYPSUM BOARD CEILING AS NEEDED.
 - 2 NEW 24x24 LED LIGHT FIXTURE. EXISTING SUSPENDED CEILING GRID TO REMAIN AS IS.
 - 3 NEW FIRE RATED 2x4 SUSPENDED CEILING SYSTEM.
 - 4 NEW 24x48 LED LIGHT FIXTURE.
 - 5 NEW ENCLOSED 2-TUBE 48" LED LIGHT FIXTURE FOR PIT MAINTENANCE. ENSURE PLACEMENT DOES NOT INTERFERE w/ ELEVATOR CABINET OPERATION.
 - 6 REPLACE FIRE SPRINKLER HEAD w/ NEW @ NEW SUSPENDED CEILING. CONNECT TO EXISTING BRANCH LINES w/ FLEXIBLE PIPE.
 - 7 NEW EXHAUST VENT GRILLE CONNECT TO EXISTING DUCTWORK. SEE MECHANICAL DRAWINGS.
 - 8 EXISTING DUCT, ABOVE NEW CEILING.
 - 9 NEW SMOKE DETECTOR.
 - 10 CONTRACTOR VERIFY IN FIELD CEILING MEETS HEIGHT REQUIREMENT FOR GRID SYSTEM AND LIGHT FIXTURE DEPTH BELOW THE BOTTOM OF EXISTING DUCT.

SUSPENDED CEILINGS
401Suspension Systems for Acoustical Lay-in Ceilings
Seismic Design Categories D, E & F

This document has been revised based on current Building Code standards. In all buildings, other than structures classified as essential facilities, **suspended ceilings installed in accordance with the prescriptive provisions of this document are deemed to comply with the current building code interpretation.**

This document provides the IBC-2015 referenced standards for the installation of suspension systems for acoustical lay-in ceilings. Incorporation of this document will provide a more uniform standard for installation and inspection. This document is designed to accomplish the intent of the International Building Code (IBC) with regard to the requirements for seismic design category D, E and F for suspended ceilings and related items. Unless supported by engineering, the suspension system shall be installed per these requirements and those of the referenced documents. Manufacturers' recommendations should be followed where applicable.



General Recommendations

- Referenced sources per hierarchy: 2015 International Building Code (IBC), American Society of Civil Engineers (ASCE 7-16), American Society of Testing Materials (ASTM C 635, ASTM C 636, ASTM E 580/E 580M), and Ceilings and Interior Systems Construction Association (CISCA).
- Partitions that are tied to the ceiling and all partitions greater than 6 ft in height shall be laterally braced to the structure. Bracing shall be independent of the ceiling splay bracing system. *Source: ASCE 7-16 Section 13.5.8.1*
- For further information on bracing of non-load bearing partitions, refer to NWCB Technical Document #200-501.
- All main beams are to be Heavy Duty (HD). *Source: ASTM E580 Section 5.1.1*
- Ceilings less than or equal to 144 ft² and surrounded by walls connected to the structure above are exempt from the seismic design requirements. *Source: ASTM E580 Section 1.4*
- These recommendations are intended for suspended ceilings and related components in areas that require resistance to the effects of earthquake motions. *Source: ASTM E580 Section 3.2*
- All wire ties are to be three tight turns around themselves within three inches. Twelve-gauge hanger wire spaced 4 ft on center (Figure 1). *Source: ASTM C636 Section 2.3.4*
- Changes in ceiling planes will require positive bracing. *Source: ASTM E580 Section 5.2.8.6*

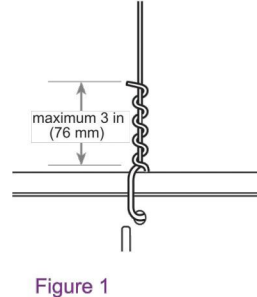


Figure 1



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tel 206-524-4243 | email info@nwcb.orgOREGON
tel 503-295-0333
email oregon@nwcb.org

Figure 5a

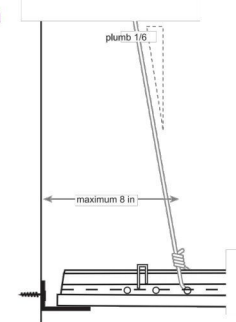


Figure 5b • Countersloping

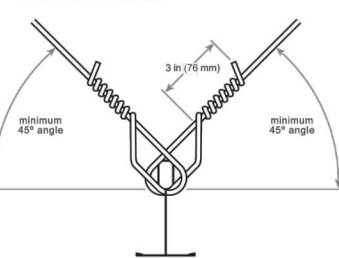


Figure 6a

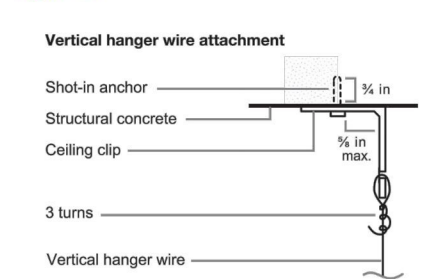
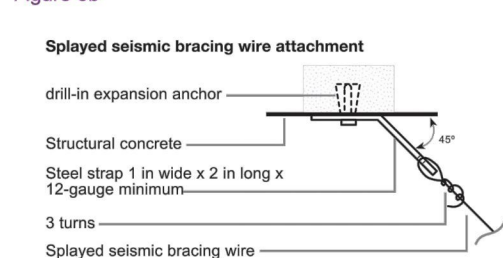


Figure 6b



- Perimeter supporting clips shall be attached to the supporting closure angle or channel with a minimum of two screws per clip and shall be installed around the entire ceiling perimeter. *Source: ASCE 7-16 Section 13.5.6.2.2a*
- The grid shall be attached at two adjacent walls (pop rivets or approved method). Soffits extending to a point at least level with the bottom plane of the grid and independently supported and laterally braced to the structure above are deemed to be equivalent to walls. *Source: State of Oregon, Building Codes Division, ASTM E580 Section 5.2.3, Section 5.2.8.1*

Spreaders Bars (Figure 4b)

- Terminal ends of main runners and cross members shall be tied together or have some other approved means to prevent their spreading. *Source: ASTM E580 Section 5.2.4*
- Spreaders bars are not required at perimeters where runners are attached directly to closure angles.
- Spreaders bars are not required if a 90° intersecting cross or main is within 8 inches of the perimeter wall.
- Where substantiating documentation has been provided to the local jurisdiction, perimeter clips may be used to satisfy the requirements for spreaders bars. *Source: State of Oregon, Building Codes Division*

Hanger (Suspension) Wires (Figures 5a and 5b)

- Hanger and perimeter wires must be plumb within 1:6 unless (Figure 5a) counter sloping wires are provided (Figure 5b). *Source: ASTM C636 Section 2.1.4*
- Hanger wires shall be 12-gauge and spaced 4 ft on center. *Source: ASTM C636 Section 2.1.6, ASTM E580 Section 5.2.7.1*
- Any connection device at the supporting construction shall be capable of carrying not less than 100 lb. *Source: CISCA zones 3-4*
- Powder Actuated Fasteners (PAFs) are an approved method of attachment for hanger wires. *Source: ASCE 7-16 13.4.5 Exception 1 & 2, State of Oregon, Building Codes Division*
- Terminal ends of each main beam and cross tee must be supported within 8 inches of each wall with a perimeter wire or approved wall support (see Figures 4a & 5a). *Source: ASTM E580 Section 5.2.6*
- Wires shall not attach to or bend around interfering material or equipment. A trapeze or equivalent device shall be used where obstructions preclude direct suspension. Trapeze suspensions shall be sized to resist the dead load and lateral forces appropriate for the seismic category. *Source: ASTM E580 Section 5.2.7.4*

Electrical Fixtures

- Light fixtures weighing less than 10 lb shall have one 12-gauge hanger wire connected from the fixture to the structure above. This wire may be slack. *Source: ASTM E580 Section 5.3.4*
- Light fixtures weighing more than 10 lb and less than 56 lb shall have two 12-gauge wires attached at opposing corners of the light fixture to the structure above. These wires may be slack. *Source: ASTM E580 Section 5.3.5*
- Light fixtures weighing more than 56 lb shall be supported directly from the structure above by approved hangers. *Source: ASTM E580 Section 5.3.6*
- Pendant-hung fixtures shall be directly supported from the structure above using a 9-gauge wire or an approved alternate support without using the ceiling suspension system for direct support. *Source: ASTM E580 Section 5.3.7*

Figure 2

Lateral-Force Bracing

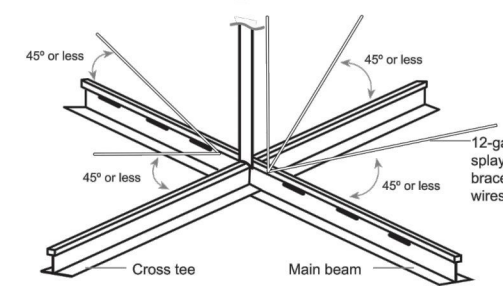


Figure 3

Maximum Recommended Lengths for Vertical Struts

EMT CONDUIT	
1/2" EMT conduit	up to 5' 10"
3/4" EMT conduit	up to 7' 8"
1" EMT conduit	up to 9' 9"
METAL STUDS	
Single 1 1/2" metal stud (20-gauge)	up to 12' 0"
Back-to-back 1 1/2" metal stud (20 gauge)	up to 15' 0"
Single 2 1/2" metal stud (20-gauge)	up to 13' 6"
Back-to-back 2 1/2" metal stud (25-gauge)	up to 15' 0"

Source: Portland Building Department
Note: Plenum areas greater than 15'0" will require engineering calculations.

Figure 4a

Attached Wall Molding Requirements

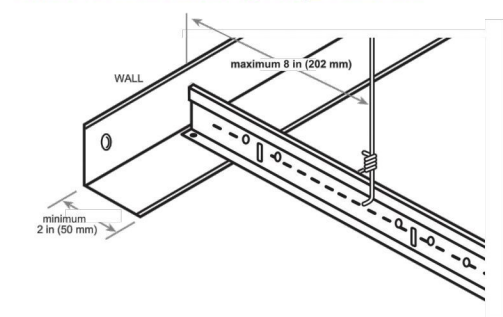
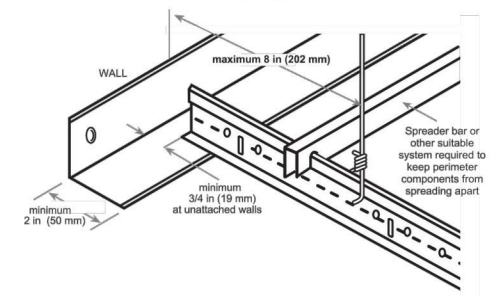


Figure 4b

Unattached Wall Molding Requirements



Lateral-Force Bracing (Figures 2 and 3)

- Ceilings constructed of screw- or nail-attached gypsum board on one level that are surrounded by and connected to walls or soffits that are laterally braced to the structure above are exempt from seismic design requirements. *Source: ASCE 7-16 Section 13.5.6, ASTM E580 Section 1.7*
- Ceiling areas of 1000 ft² or less shall be exempt from lateral-force bracing requirements. *Source: ASTM E580 Section 1.6*
- Lateral-force bracing is the use of vertical struts (compression posts) and splay wires (see Figure 2).
- Lateral-force bracing shall be 12 ft on center (maximum) and begin no farther than 6 ft from walls. *Source: ASTM E580 Section 5.2.8.2*
- Seismic splay wires are to be four 12-gauge wires attached to the main beam. Wires are arrayed 90° from each other and at an angle not exceeding 45° from the plane of the ceiling. *Source: ASTM E580 Section 5.2.8.2*
- Seismic splay wires shall be attached to the grid and to the structure in such a manner that they can support a minimum design load of 200 lb or the actual design load, with a safety factor of 2, whichever is greater (Figure 6b). *Source: CISCA zones 3-4*
- Power-actuated fasteners in concrete or steel shall not be used for sustained tension loads or for brace applications in Seismic Design Categories D, E, or F unless approved for seismic loading. Power-actuated fasteners in masonry are not permitted unless approved for seismic loading.

Exceptions:

- Power-actuated fasteners in concrete, used for support of acoustical tile or lay-in panel suspended ceiling applications and distributed systems where the service load on any individual fastener does not exceed 90 lb.
 - Power-actuated fasteners in steel where the service load on any individual fastener does not exceed 250 lb (1.112N). *Source: ASCE 7-16 13.4.5*
- Splay wires are to be within 2 inches of the connection of the vertical strut to suspended ceiling. *Source: ASTM E580 Section 5.2.8.2*
 - Rigid bracing may be used in lieu of splay wires. *Source: ASTM E580 Section 5.2.8.4*
 - Ceilings with plenums less than 12 inches to structure are not required to have lateral-force bracing. *Source: Portland Building Department*
 - Vertical struts must be positively attached to the suspension systems and the structure above. *Source: ASTM E580 Section 5.2.8.2*
 - The vertical strut may be EMT conduit, metal studs or a proprietary compression post (see Figure 3).

Wall Moldings (Figures 4a and 4b)

- Wall moldings (perimeter closure angles) are required to have a horizontal flange 2 inches wide. One end of the ceiling grid shall be attached to the wall molding, and the other end shall have a 3/4-in clearance from the wall and free to slide. *Source: ASTM E580 Section 5.2.2, Section 5.2.3*
- Where substantiating documentation has been provided to the local jurisdiction, perimeter clips may be used to satisfy the requirements for the 2-in closure angle. *Source: State of Oregon, Building Codes Division*

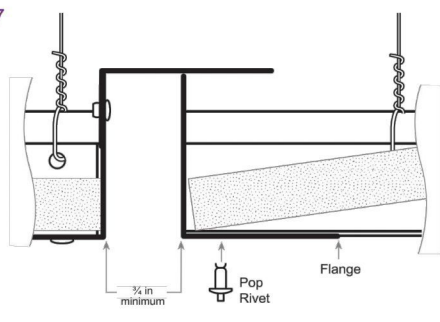
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PAGE 2 OF 4

Figure 7



supported directly from the structure above by approved hangers. *Source: ASTM E580 Section 5.4.3*

Seismic Separation Joints (Figure 7)

- All continuous ceiling areas exceeding 2500 ft² (232 m²), shall have a seismic separation joint, bulkhead braced to the structure or full-height partition that breaks the ceiling into areas of no more than 2500 ft² (232 m²) and a ratio of the long to short dimension less than or equal to four. Each area shall be capable of allowing + or - 3/4 in (19 mm) axial movement. Areas surrounded by bulkheads or full height partitions shall be provided with closure angles. Each area with a seismic separation joint, bulkhead or full-height partition shall have horizontal bracing or restraints. *Source: ASCE 7-16 Section 13.5.6.2.2 b, ASTM E580 Section 5.2.9.1*

Sprinklers

- For ceilings without rigid bracing, sprinkler head penetrations shall have a 2-in oversize ring, sleeve or adapter through the ceiling tile to allow free movement of at least one inch in all horizontal directions. Flexible head design that can accommodate 1 inch free movement shall be permitted as an alternate. *Source: ASTM E580 Section 5.2.8.5*

Glossary for this Document (regional terminology may vary)

CROSS TEE The cross member that interlocks with the main beams, also known as a cross runner or cross T-bar.

DIFFUSER A circular or rectangular metal grill used for the passage of air from a ducted system.

ESSENTIAL SERVICE BUILDING Any building designed to be used by public agencies as a fire station, police station, emergency operations center, State Patrol office, sheriff's office, or emergency communication dispatch center.

GRID The main beams and cross tees of the suspension system.

HANGER WIRE 10- or 12-gauge soft annealed wire used as primary support for the grid system. Also called a suspension wire.

LATERAL-FORCE BRACING The bracing method used to prevent ceiling uplift or restrict lateral movement during a seismic event. Lateral-force bracing consists of vertical struts and splay wires.

MAIN BEAM The primary suspension member supported by hanger wires, also known as the main runner or carrying tee, carrying runner or mains.

MOLDING/CLOSURE ANGLE A light-gauge metal angle or channel fastened to the perimeter wall or partition to support the perimeter ends of an acoustical ceiling grid.

PERIMETER CLIP A proprietary angle bracket attached directly to the wall molding/closure angle which allows for 3/4 in movement in the event of seismic activity and interlocks properly with ends of grid system.

PERIMETER WIRE A hanger wire placed within 8 in of the surrounding walls.

PLENUM The space above a suspended ceiling.

SLACK WIRE A 12-gauge wire that is not tight or taut.

SPREADER or SPACER BAR A bar with notches to prevent the suspension system from separating, also called a stabilizer bar.

SPLAY WIRE A wire installed at an angle rather than perpendicular to the grid.

VERTICAL STRUT The rigid vertical member used in lateral-force bracing of the suspension system. Also known as compression post, seismic pod or seismic strut. Common materials are electrical conduit (EMT), metal studs or proprietary products.

The NWCB has been serving the construction industry since 1950. It is recognized as a technical authority, educational body and spokesperson for the wall and ceiling industry. It provides services to architects and the construction community on all matters relating to the diversified wall and ceiling industry. As the industry's development and coordination organization, the NWCB saw the need to establish this document to provide clarification and the intent of NEHRP (National Earthquake Hazards Reduction Program) an agency of FEMA (Federal Emergency Management Agency). It is meant to serve as a set of recommendations and is not intended for any specific construction project. NWCB makes no express or implied warranty or guarantee of the techniques, construction methods or materials identified herein.

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ELEVATOR UPGRADE

155 COTTAGE STREET NE, SALEM, OREGON

REVISIONS:

PROJECT INFORMATION:
PROJECT #: 19-002
DATE: 11-OCT-2019
DRAWN BY: RMA
CHECK BY: NDC
SHEET TITLE:

SUSPENDED
CEILING
DETAILS

SHEET #:

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
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SYMBOL LEGEND


GENERAL


 KEYED NOTE


 CALLOUT PLAN/DETAIL #1


 ELECTRICAL/MECHANICAL EQUIPMENT AS IDENTIFIED ON DRAWINGS.


 UNDERGROUND/ UNDERFLOOR RACEWAY


 HOMERUN WITH 2 #12 CONDUCTORS (GROUND NOT SHOWN)

 HOMERUN WITH 2 #10 CONDUCTORS (GROUND NOT SHOWN)


 HOMERUN WITH 3 #10 CONDUCTORS (GROUND NOT SHOWN)


 CONCEALED RACEWAY AND CONDUCTORS. PROVIDE #12 CONDUCTORS UNLESS OTHERWISE SHOWN.


 LOW VOLTAGE CABLE/ HOMERUN C = CONTROL


 FLEX CONNECTION


POWER


 POWER PANEL - RECESSED


 POWER PANEL - SURFACE


 DUPLEX RECEPTACLE


 GROUND FAULT, WEATHERPROOF TYPE,


 SPLIT WIRED WITH 1/2 SWITCHED, ABOVE COUNTER


 DOUBLE DUPLEX RECEPTACLE


 SPECIALTY RECEPTACLE, NEMA SIZE AS NOTED.


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
 MOTOR


 DISCONNECT (F=FUSED, "BLANK"=SWITCH ONLY)


 RELAY

 BREAKER


 GFI BREAKER


 TRANSFORMER


 UTILITY METER

 GROUND

FIRE ALARM

 SMOKE ALARM, D=DUCT

 HEAT DETECTOR

 VOICE/DATA CONNECTION. PROVIDE 1" C AND 1-GANG BOX. ROUTE CONCEALED TO TTb. PROVIDE 1-GANG 30L STAINLESS STEEL WALL/COVER PLATE.

SHEET INDEX

DRAWING #	TITLE
E0.00	LEGEND & FIRE SERVICE DETAIL
E2.00	DEMOLITION PLANS
E3.00	ELECTRICAL PLANS

LIGHTING	
	SWITCH
	SWITCH, a = LIGHTS CONTROLLED, 3 = THREE-WAY.
	OCCUPANCY SENSING WALL SWITCH
	LOW VOLTAGE WALL SWITCH
	2x2/ 2x4 RECESSED LIGHT FIXTURE.
	2x2/ 2x4 SURFACE FIXTURE
	STRIP/WRAP FIXTURE
	PENDANT, SURFACE MOUNT FIXTURE
	RECESSED DOWN LIGHT FIXTURE.
	LINEAR FIXTURE IN 4', 8', AND 12' LENGTHS.
	WALL SCONCE
	WALL MOUNT LIGHT
	EXIT SIGN WITH DIRECTIONAL ARROWS.
	CEILING MOUNTED OCCUPANCY SENSOR COMPLETE SYSTEM WITH POWER PACK
	POLE MOUNTED LIGHTING
	<p><u>LIGHTING FIXTURE NOTATION</u> A1 = FIXTURE TYPE "A1". E = EMERGENCY POWER.</p>

ABBREVIATIONS

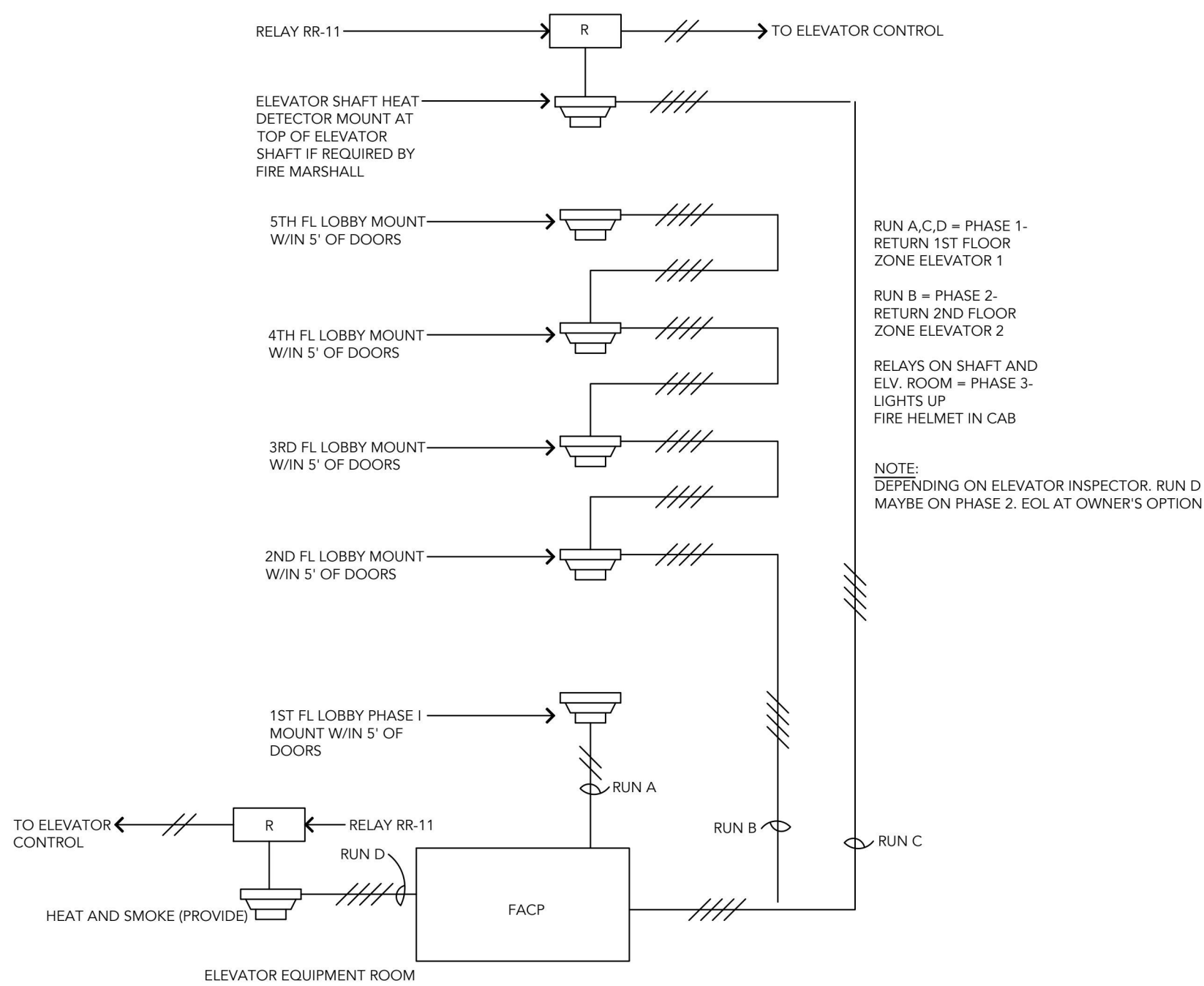
AFF, A.F.F.	ABOVE FINISHED FLOOR
ARCH.	ARCHITECT/ARCHITECTURAL
BLDG	BUILDING
C	CONDUIT
CD	CANDELA
CKT	CIRCUIT
C.L.	COLUMN LINE
(E)	EXISTING
ELEC	ELECTRICAL
EMERG	EMERGENCY
FAM/FACP	FIRE ALARM MASTER / FIRE ALARM CONTROL PANEL
FT.	FEET
GFI	GROUND FAULT INTERRUPTER
GND, G	GROUND
HVAC	HEATING, VENTILATING, & AIR CONDITIONING
IDF	INTERMEDIATE DISTRIBUTION FRAME
LV	LOW VOLTAGE
MDF	MAIN DISTRIBUTION FRAME
MECH	MECHANICAL
NMSC	NON-METALLIC SHEATHED CABLE(S).
N.L.	NIGHT LIGHT
O, OC, OCC	OCCUPANCY
PNL	PANEL
PROVIDE	FURNISH AND INSTALL
SD	SUB - DISTRIBUTION
SPD	SURGE PROTECTION DEVICE
TTB	TELEPHONE TERMINAL BOARD
TVSS / SPD	TRANSIENT VOLTAGE SURGE SUPPRESSION / SURGE PROTECTION DEVICE
TYP	TYPICAL
WP	WEATHER PROOF
"	INCH / INCHES
'	FOOT / FEET
EOL	END OF LINE

LIGHTING FIXTURE SCHEDULE

ID	DESCRIPTION	MANUFAC.	MOUNTING HEIGHT	LAMP (QTY) WATTS	NOTES
A	2X2 RECESSED FIXTURE. LITHONIA - RTLED #2RTL2 33L EZ1 LP840 OR APPROVED EQUAL	LITHONIA	RECESSED	INTEGRAL LED 35W 4000K 3300LMS	1.
B	48" LED STRIP LIGHT. LITHONIA - FEM L48 8000LM LAPCL MD 40K OR APPROVED EQUAL	LITHONIA	SURFACE	INTEGRAL LED 69W 4000K 8000LMS	2.
C	2x4 RECESSED FIXTURE. LITHONIA - RTLED #2RTL4 72L EZ1 LP840 OR APPROVED EQUAL	LITHONIA	RECESSED	INTEGRAL LED 71W 4000K 7200LMS	1.

NOTES

1. PROVIDE PER DAS ELECTRICAL LIGHTING STANDARDS.
2. PROVIDE WEATHER PROOF OPTION FOR ELEVATOR PIT APPLICATION.



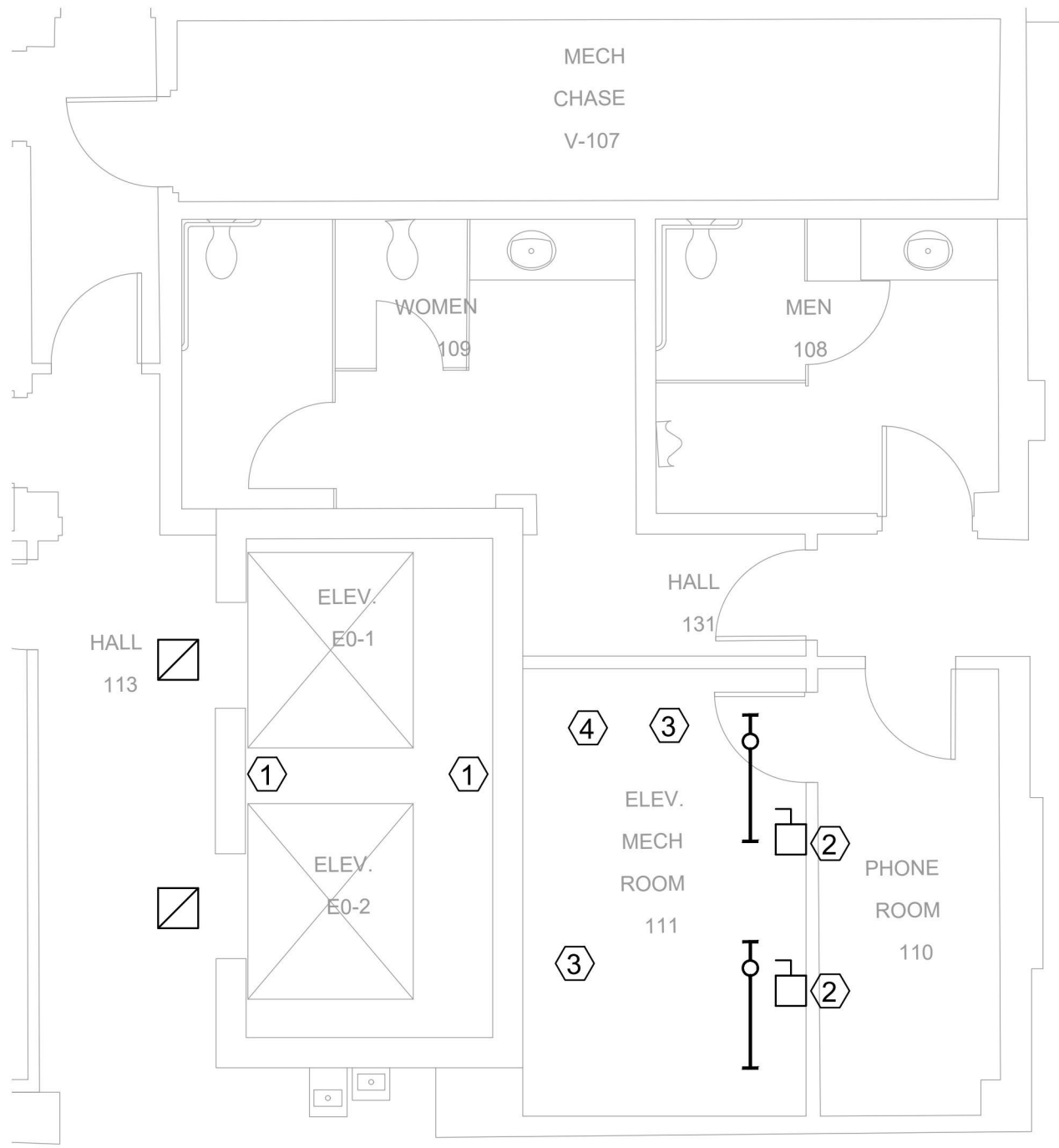
1 ELEVATOR FIRE SERVICE DETAIL

SCALE: NTS

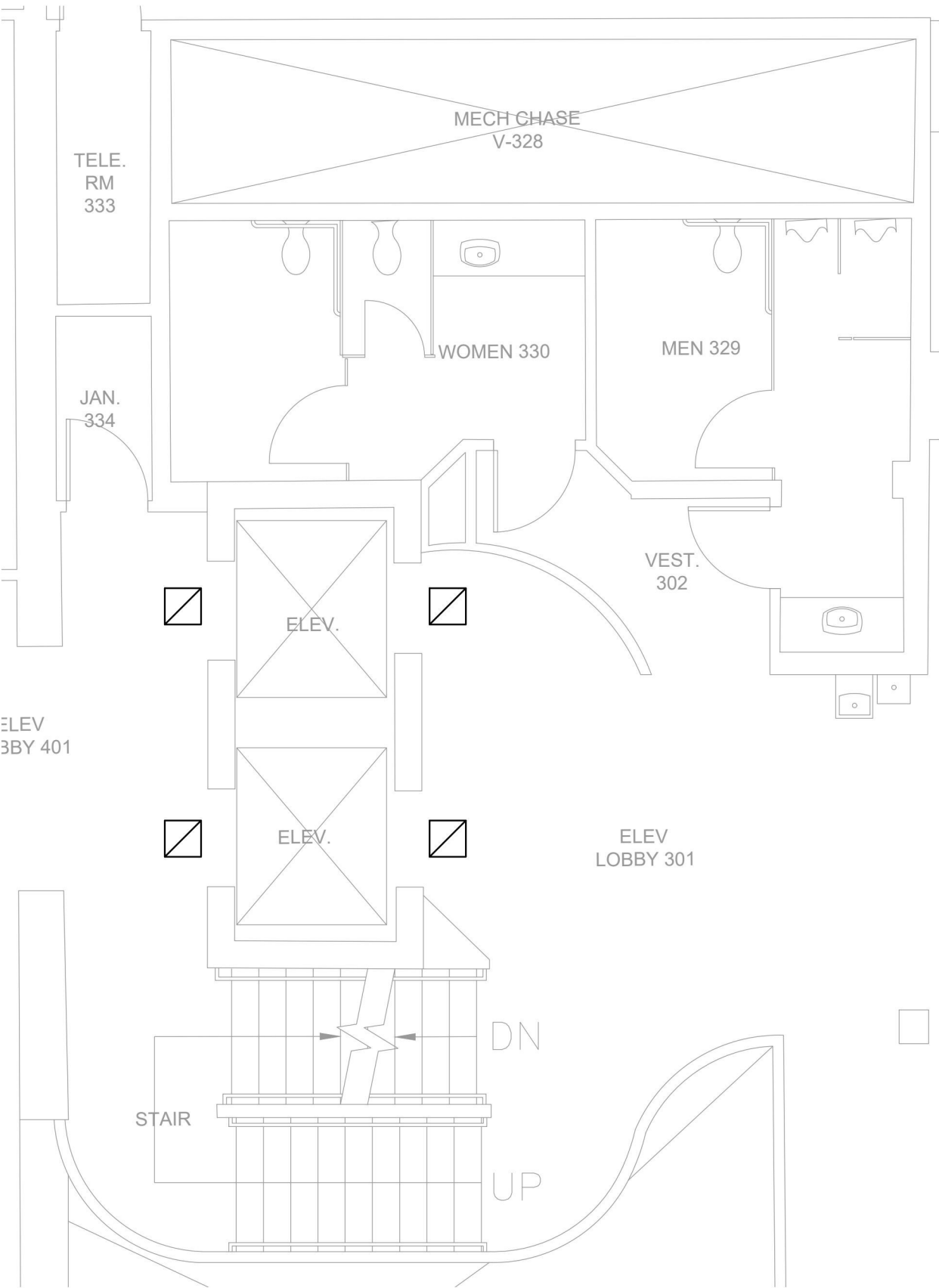
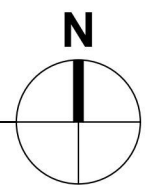
GENERAL NOTES

- A. SEE SPECIFICATIONS.
- B. PROVIDE PER DAS STANDARDS INCLUDING:
 - ELECTRICAL
 - LIGHTING
 - ACCESS CONTROL
- C. SEE ARCHITECT FOR ADDITIONAL REQUIREMENTS.
- D. WIRING, INCLUDING FIRE ALARM, VOICE DATA, AND OTHER LOW VOLTAGE, SHALL BE IN RACEWAY THROUGHOUT
- E. RISER DIAGRAM SHOWN FOR REFERENCE AS ASSUMED (E).

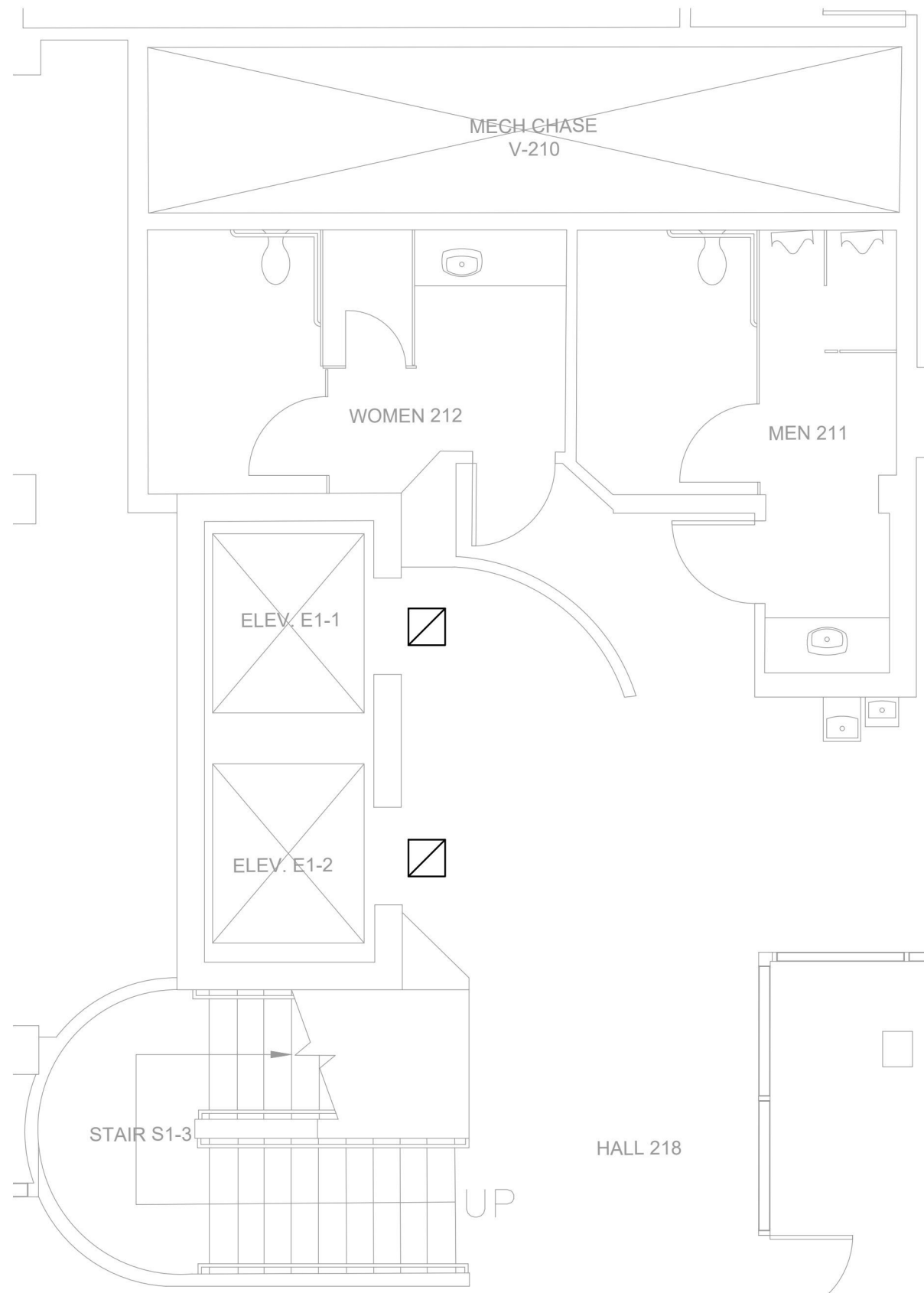




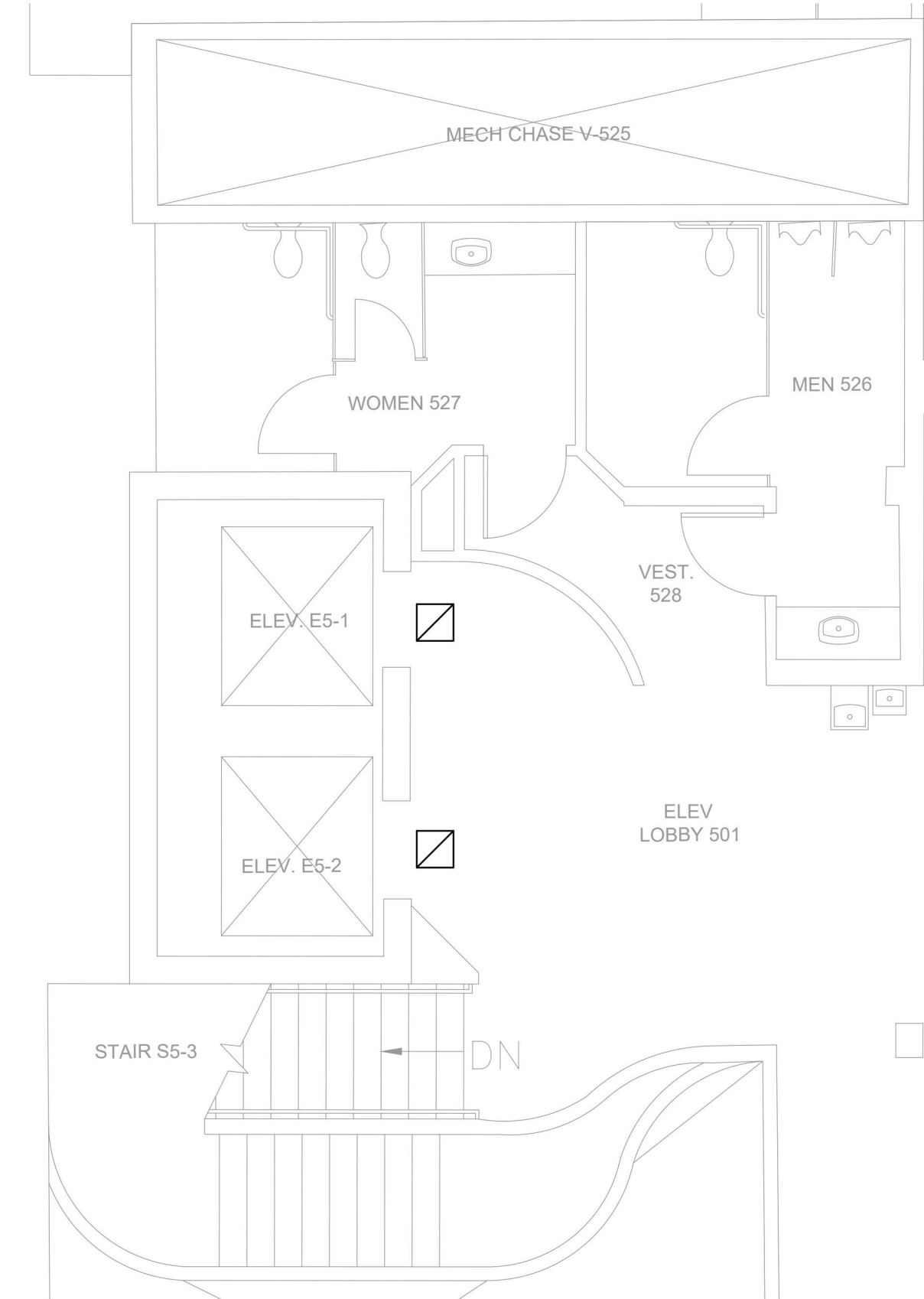
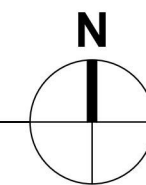
1 1ST FLOOR DEMOLITION PLAN
SCALE: 3/16" = 1'-0"



3 3RD/4TH FLOOR DEMOLITION PLAN
SCALE: 3/16" = 1'-0"



2 2ND FLOOR DEMOLITION PLAN
SCALE: 3/16" = 1'-0"



4 5TH FLOOR DEMOLITION PLAN
SCALE: 3/16" = 1'-0"

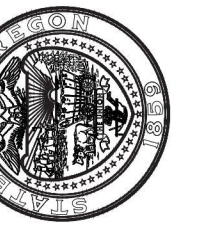


SHEET NOTES

- A. (E) LIGHTING CIRCUITING AND CONTROL TO REMAIN.
- B. SEE PLANS FOR NEW EQUIPMENT TYPES AND LOCATIONS.
- C. PROTECT EQUIPMENT TO REMAIN INCLUDING FEEDER RACEWAYS, LIGHTING BRANCH CIRCUITS, AND FIRE ALARM EQUIPMENT.

#KEYED NOTES

1. REMOVE (E) ELEVATOR PIT LIGHTING FIXTURES (2 (E) VERTICALLY MOUNTED FLUORESCENT WRAPS), CIRCUITS TO REMAIN.
2. REMOVE (E) DISCONNECTS. REMOVE AND REPLACE (E) VERTICAL RACEWAY SUCH THAT NEW CEILING IS NOT IMPEDED BY (E) RACEWAY BEND.
3. REMOVE (E) ELEVATOR CONNECTIONS.
4. PROTECT AND RELOCATE (E) FIRE ALARM SMOKE/FIRE DETECTOR BELOW NEW CEILING.



REVISIONS:

PROJECT INFORMATION:
PROJECT #: 19-108
DATE: 11-OCT-2019
DRAWN BY: BJM
CHECK BY: MJC
SHEET TITLE:

DEMOLITION
PLANS

SHEET #:

F
2.00

ISSUED FOR: BID SET



FULL SIZE PRINT: 22 x 34

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EXECUTIVE BUILDING - ELEVATOR UPGRADE

DEPARTMENT OF ADMINISTRATIVE SERVICES

155 COTTAGE STREET NE, SALEM, OREGON

OWNER
DEPARTMENT OF ADMINISTRATIVE SERVICES
ENTERPRISE ASSET MANAGEMENT
1225 FERRY STREET SE
SALEM, OREGON 97301
CONTACT: JOE GILL
CHARLES.GILL@OREGON.GOV
503.510.5172

CONTRACTOR
TO BE DETERMINED

ARCHITECT
SOLARC ARCHITECTURE, INC.
240 N BROADWAY STREET, SUITE 308
PORTLAND, OREGON 97227
CONTACT: NATE CARTER
NATE@SOLARC-A.COM
971.344.1919

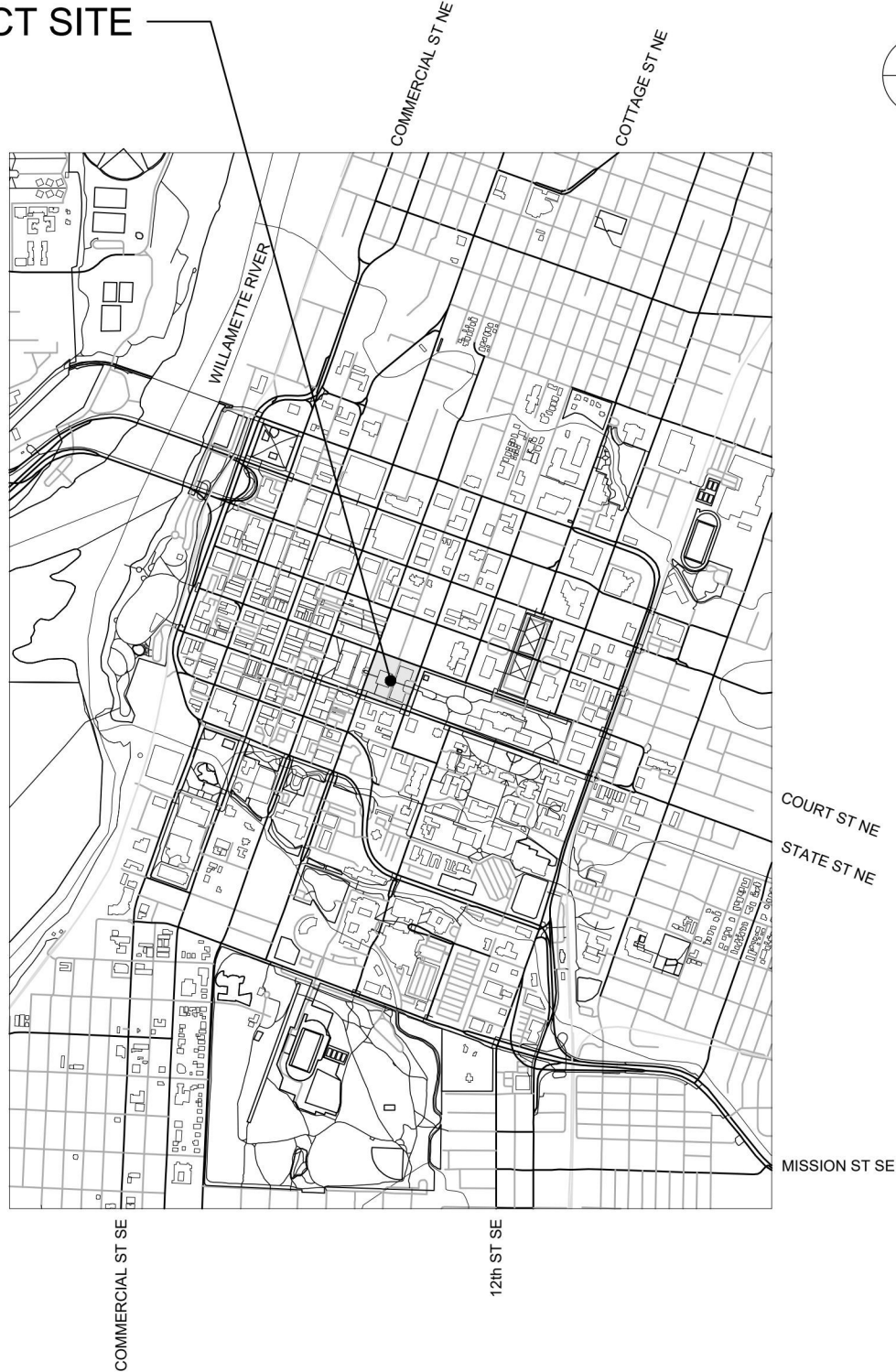
ELEVATOR CONSULTANT
ELEVATOR CONSULTING SERVICES
1117 31ST AVENUE SOUTH
SEATTLE, WASHINGTON 98144
CONTACT: BILL GREENLAND
BILL@ELEVATORADVICE.COM
425.957.4641

MECHANICAL CONSULTANT
FLUENT ENGINEERING, INC.
2110 STATE STREET
SALEM, OREGON 97301
CONTACT: JEREMY WENGER
JEREMYW@FLUENTENGINEERING.COM
503.447.5030

ELECTRICAL CONSULTANT
FLUENT ENGINEERING, INC.
2110 STATE STREET
SALEM, OREGON 97301
CONTACT: MATT CASH
MCASH@FLUENTENGINEERING.COM
503.447.5030

PROPERTY LOCATION

PROJECT SITE



SITE PLAN



PROJECT DESCRIPTION

THE SCOPE OF THIS PROJECT IS TO REPLACE 'IN KIND' THE EXISTING HYDRAULIC ELEVATORS AND UPGRADE ADJACENT LIGHTING AND FINISHES. CURRENTLY THERE ARE TWO CABS SERVICING THE BUILDING IN A SINGLE HOISTWAY AT THE CENTER OF THE BUILDING.

THESE DRAWINGS ARE TO ILLUSTRATE THE SCOPE OF WORK.

PROPERTY INFORMATION

ADDRESS: EXECUTIVE BUILDING
155 COTTAGE STREET NE
SALEM, OREGON 97301

JURISDICTION: CITY OF SALEM

ZONE: PS (PUBLIC SERVICE)
OVERLAY: GENERAL RETAIL / OFFICE OVERLAY ZONE

APPLICABLE CODES: 2014 OREGON STRUCTURAL SPECIALTY CODE
2017 OREGON ELECTRICAL SPECIALTY CODE
2014 OREGON MECHANICAL SPECIALTY CODE
2014 OREGON FIRE CODE
2014 OREGON ENERGY EFFICIENCY SPECIALTY CODE

AREAS: 55,173 SF (TOTAL BUILDING)

OCCUPANCY TYPE: OFFICE

TOTAL STORIES: 5 - SPLIT LEVEL BUILDING

DRAWING INDEX

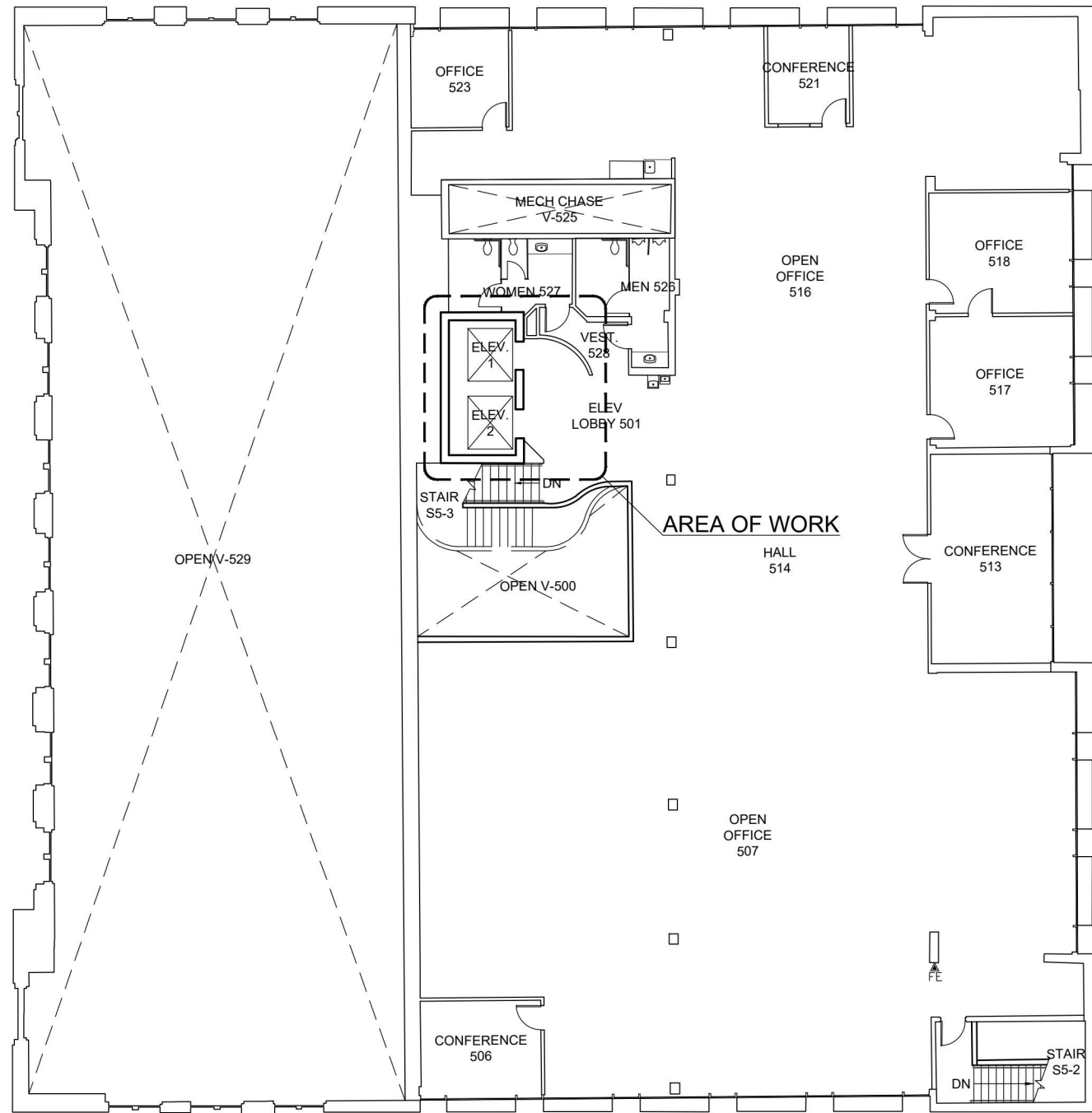
DRAWING INDEX		ISSUE LOG			
		REVIEW SET 2019-04-15	REVIEW SET 2019-06-08
SHEET #	SHEET TITLE				
GENERAL					
G000	COVER SHEET	•	•		
G001	KEY PLANS	•	•		
ARCHITECTURAL					
A200	ENLARGED FLOOR PLANS	•	•		
A210	DEMOLITION CEILING PLANS	•	•		
A211	NEW CEILING PLANS	•	•		
A212	SUSPENDED CEILING DETAILS		•		
MECHANICAL					
M1.00	MECHANICAL PLAN	•	•		
ELECTRICAL					
E0.00	COVER SHEET & LEGENDS	•	•		
E2.00	DEMOLITION PLANS	•	•		
E3.00	ELECTRICAL PLANS	•	•		
LEGEND: • = ISSUED AS PART OF SET * = ISSUED FOR INFORMATION ONLY					

GENERAL NOTES

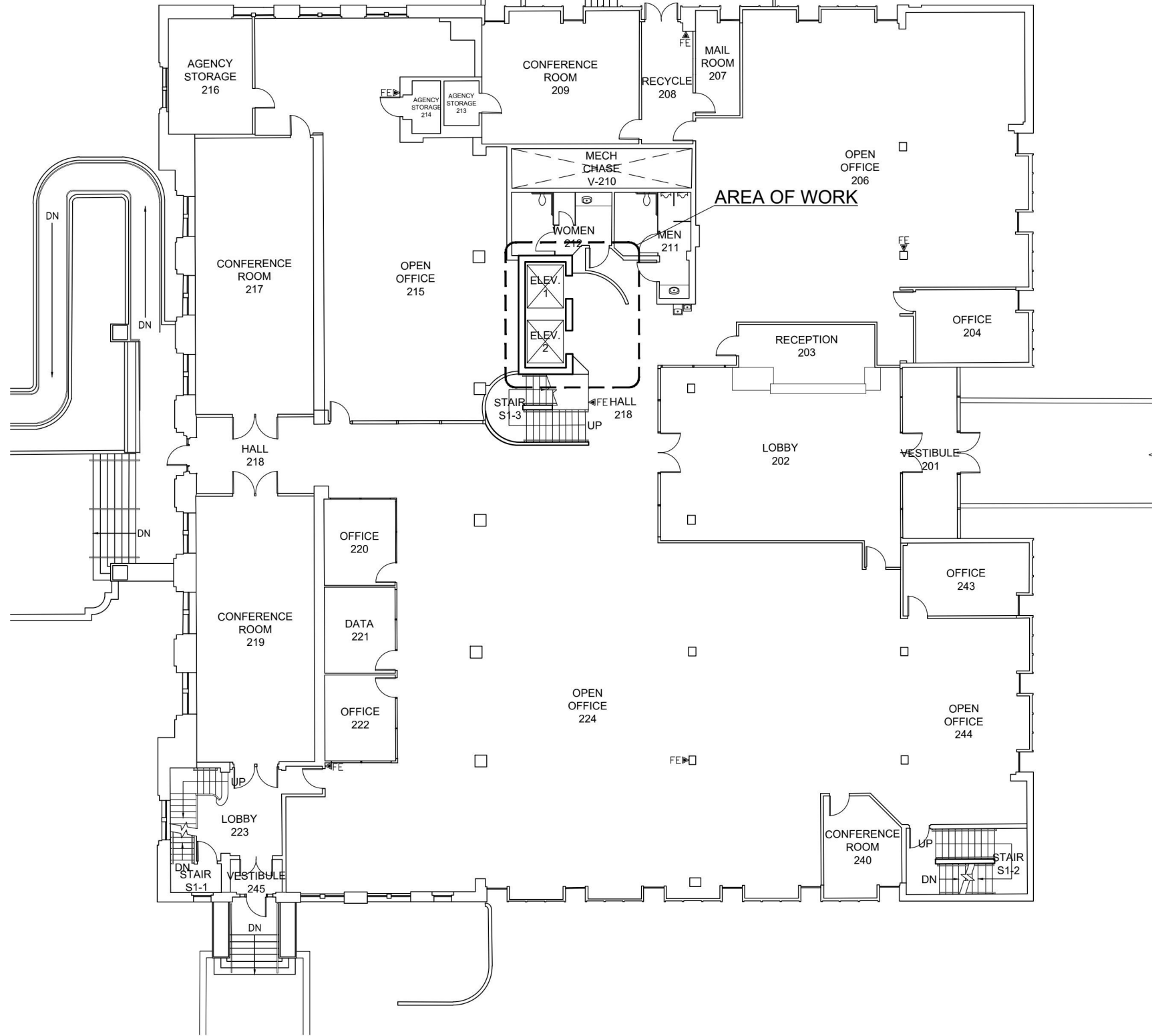
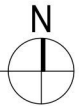
- DRAWINGS INDICATE THE GENERAL SCOPE OF THE PROJECT IN TERMS OF ARCHITECTURAL DESIGN CONCEPT, DIMENSIONS, AND MAJOR ELEMENTS OF STRUCTURAL SYSTEMS. AS SUCH, THE DRAWINGS DO NOT NECESSARILY INDICATE OR DESCRIBE ALL WORK REQUIRED FOR FULL PERFORMANCE AND COMPLETION OF THE REQUIREMENTS OF THE CONTRACT DOCUMENTS. ON THE BASIS OF GENERAL SCOPE INDICATED OR DESCRIBED, THE CONTRACTOR SHALL FURNISH ALL ITEMS REQUIRED FOR THE PROPER EXECUTION AND COMPLETION OF THE WORK.
- THE CONTRACTOR SHALL VISIT THE SITE TO BECOME FAMILIAR WITH THE EXISTING CONDITIONS. HE/SHE SHALL INVESTIGATE, VERIFY, AND BE RESPONSIBLE FOR ALL CONDITIONS OF THE PROJECT, AND SHALL NOTIFY THE ENGINEER THROUGH APPROVED CONTACT METHODS, OF ANY CONDITIONS REQUIRING MODIFICATION PRIOR TO CONSTRUCTION.
- THE CONTRACTOR SHALL COORDINATE ALL TRADES RELATED TO HIS OR HER WORK.
- NO WORK SHALL BE PERFORMED OR PERMIT VALIDATED FOR ANY ITEM LISTED AS DEFERRED WITHOUT FIRST BEING REVIEWED AND APPROVED BY THE DESIGN PROFESSIONAL IN RESPONSIBLE CHARGE AND SUBSEQUENTLY APPROVED BY THE BUILDING OFFICIAL.
- ALL CONSTRUCTION SHALL COMPLY WITH THE LATEST EDITION OF THE OREGON STRUCTURAL SPECIALTY CODE, PLUMBING CODE, MECHANICAL CODE, ELECTRICAL CODE, FIRE CODE, ENERGY CODE AND ALL OTHER APPLICABLE CODES.
- ALL FIELD DIMENSIONS TAKE PRECEDENCE OVER DIMENSIONS ON DRAWINGS. USE DIMENSIONAL INFORMATION GIVEN. DO NOT SCALE DRAWINGS.
- ANY DAMAGE TO EXISTING MATERIALS AND/OR CONDITIONS THAT ARE TO REMAIN OR BE REUSED SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO REPAIR OR REPLACE SUCH EXISTING MATERIALS AT NO ADDITIONAL COST OR CONDITIONS TO THE OWNER.
- CONTRACTOR TO COORDINATE SCHEDULING OF ALL RELATED WORK OCCURRING IN ADJACENT SITES WITH OWNERS.
- FIRE SAFE/ SEAL ALL FLOOR/ WALL PENETRATIONS TO MEET APPLICABLE CODE REQUIREMENTS AS THEY RELATE TO FIRE RATED ASSEMBLIES.
- CONTRACTOR SHALL NOT PERFORM ANY CONSTRUCTION ACTIVITY OR INSTALL ANY OBJECTS WITHIN THE PUBLIC RIGHTS-OF-WAY OR EASEMENTS OF THE MUNICIPALITY WITHOUT A VALID CONSTRUCTION PERMIT AND / OR A STREET OPENING PERMIT OR AN ENCROACHMENT PERMIT ISSUED BY THE CITY'S PUBLIC WORKS DEPARTMENT.
- CONTRACTOR SHALL COMPLY WITH ALL LOCAL BUILDING CODE REGULATIONS AND STATE DEPARTMENT OF INDUSTRIAL RELATIONS. DIVISION OF INDUSTRIAL SAFETY (O.S.H.A) REGULATIONS AND REQUIREMENTS.
- CONTRACTOR SHALL INVESTIGATE, VERIFY AND BE RESPONSIBLE FOR ALL CONDITIONS AND DIMENSIONS OF THE PROJECT AND SHALL NOTIFY ARCHITECT/ ENGINEER ABOUT ANY CONDITION REQUIRING MODIFICATIONS OR CHANGE BEFORE PROCEEDING WITH THE WORK.
- CONTRACTOR SHALL REFER TO AND CROSS-CHECK DETAILS, DIMENSIONS, NOTES, AND ALL REQUIREMENTS SHOWN ON THE ARCHITECTURAL DRAWINGS WITH RELATED REQUIREMENTS ON THE CIVIL, LANDSCAPE, STRUCTURAL, PLUMBING, MECHANICAL AND/OR ELECTRICAL DRAWINGS.
- REFERENCE OF DRAWINGS IS FOR CONVENIENCE ONLY AND DOES NOT LIMIT APPLICATION OF ANY DRAWINGS OR DETAILS.
- THE STRUCTURE IS DESIGNED AS A STABLE UNIT AFTER ALL COMPONENTS ARE IN PLACE. THE CONTRACTOR SHALL BE RESPONSIBLE TO PROVIDE TEMPORARY BRACING AS REQUIRED OR PORTION THEREOF DURING CONSTRUCTION.
- PRIOR TO THE ISSUANCE OF A BUILDING PERMIT, THE CONTRACTOR SHALL HAVE EVIDENCE OF CURRENT GENERAL LIABILITY, WORKERS COMPENSATION INSURANCE AND BONDING COVERAGE IN COMPLIANCE WITH STATE OF OREGON ORDINANCE.
- THE CONTRACTOR SHALL PROVIDE ALL NECESSARY BLOCKING, BACKING, FRAMING, AND SLEEVES FRAMING FOR LIGHT FIXTURES, ELECTRICAL UNITS, A/C EQUIPMENT, COUNTERS, HANDRAILS, RAILINGS, AND ALL OTHER ITEMS REQUIRING SAME.
- THE CONTRACTOR SHALL PROVIDE FIRE EXTINGUISHERS AS REQUIRED BY THE FIELD INSPECTOR DURING CONSTRUCTION. PROVIDE PORTABLE FIRE EXTINGUISHERS WITH A RATING NOT LESS THAN 10BC AS REQUIRED BY FIRE MARSHAL FIELD INSPECTOR.

ABBREVIATIONS

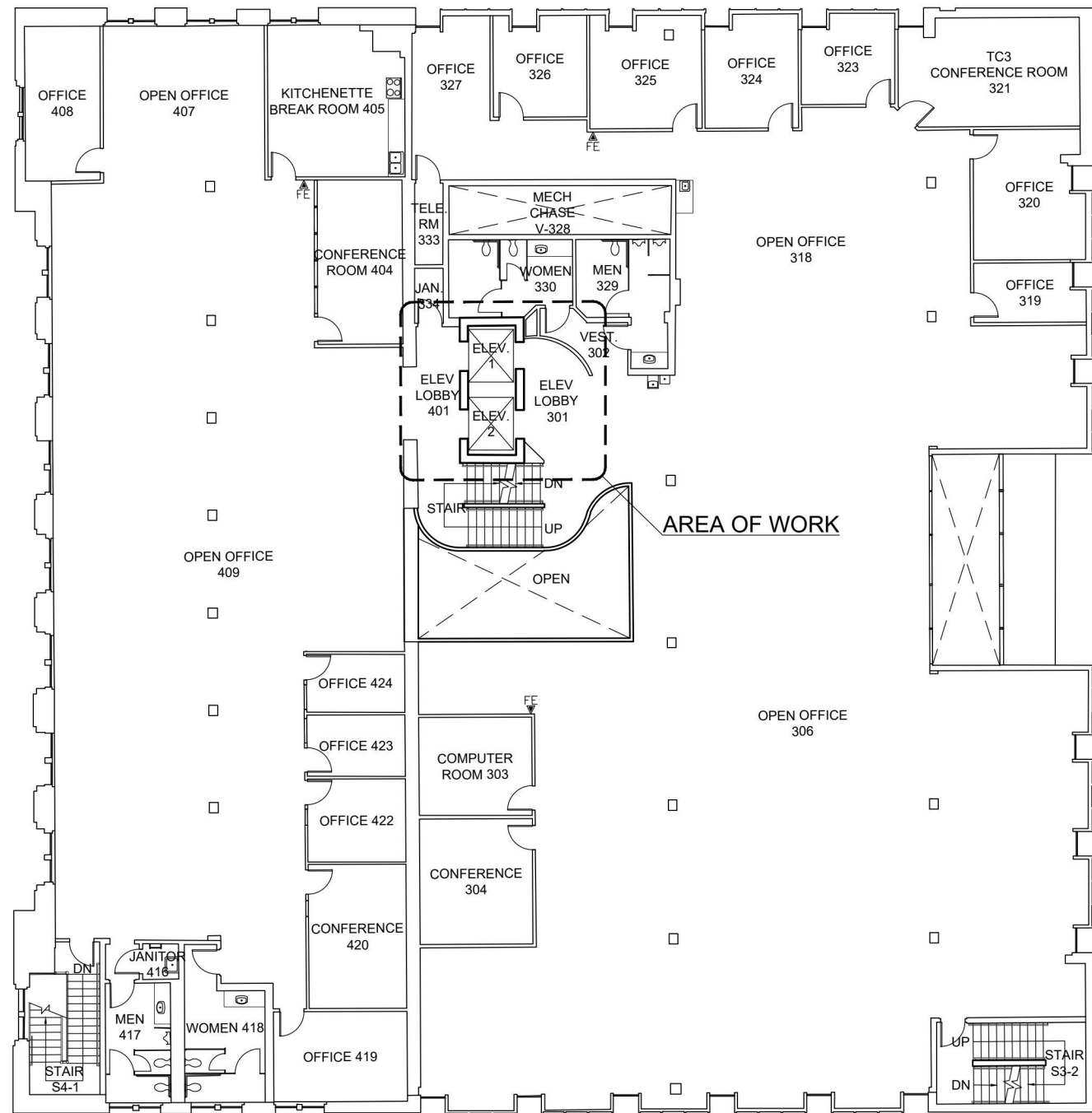
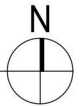
AC	ASPHALT PAVING	FE	FIRE EXTINGUISHER	NTS	NOT TO SCALE	STRUC	STRUCTURAL
ACOUS	ACOUSTICAL	FIN	FINISH	(N)	NEW	SUSP	SUSPENDED
AD	AREA DRAIN	FLASH	FLASHING	NIC	NOT IN CONTRACT	SYM.	SYMMETRICAL
ALT	ALTERNATE	FLOOR	FLOOR	NO. OR #	NUMBER		
ALUM	ALUMINUM	FOC	FACE OF CONCRETE	OA	OVERALL	THK	THICK
ARCH	ARCHITECTURAL	FOF	FACE OF FINISH	OC	ON CENTER	THRU	THROUGH
		FOS	FACE OF STUDS OR STEEL	OD	OUTSIDE DIAMETER	TC	TOP OF CURB
		FT	FOOT, FEET	OF/CI	OWNER FURNISHED/ CONTRACTOR INSTALLED	T/G	TEMPERED GLASS
		FURR	FURRING	OPHD	OPPOSITE HAND	T.O.	TOP OF
				OPNG(S)	OPENING(S)	TOC	TOP OF CURB
BD	BOARD					TOW	TOP OF WALL
BLD'G	BUILDING	GA	GAUGE			TYP	TYPICAL
BLK'G	BLOCKING	GALV	GALVANIZED				
B.O.	BOTTOM OF	G.B.	GYPSON BOARD				
BTM	BOTTOM	GL	GLASS				
CLG	CEILING			P	PAINTED	UON	UNLESS OTHERWISE NOTED
CLR	CLEAR			P-LAM	PLASTIC LAMINATE		
CMU	CONCRETE MASONRY UNIT	HC	HOLLOW CORE	PLAS	PLASTIC		
CONC	CONCRETE	HDWR	HARDWARE	PAIR	PAIR	VER	VERIFY
COL	COLUMN			PT	PRESSURE TREATED	VERT	VERTICAL
CONT	CONTINUOUS	HGT	HEIGHT	PTD	PAPER TOWEL	VIF	VERIFY IN FIELD
C.T.	CERAMIC TILE	HM	HOLLOW METAL	DISPENSER	DISPENSER		
		HORIZ	HORIZONTAL	PLYWD	PLYWOOD	WD	WOOD
				PNL	PANEL	W/	WITH
DBL	DOUBLE	ID	INSIDE DIAMETER			W/O	WITHOUT
DEMO	DEMOLISHED	INSUL	INSULATION			WP	WATERPROOF
DET	DETAIL	INT	INTERIOR	R	RADIUS		
DIA	DIAMETER			(R)	RELOCATED		
DN	DOWN			RD	ROOF DRAIN		
D.O.	DOOR OPENING	JAN	JANITOR	REF	REFERENCE		
DS	DOWNSPOUT	JOINT	JOINT	REIN	REINFORCE(D)		
DWG	DRAWING(S)			REQ'D	REQUIRED		
		LAM	LAMINATES	RESIL	RESILIENT		
		LAV	LAVATORY	RO	ROUGH OPENING		
		LT	LIGHT	RM	ROOM		
EA	EACH					SC	SOLID CORE
ELEC	ELECTRICAL	MANUF	MANUFACTURER			SCHED	SCHEDULE
ELEV	ELEVATION	MAX	MAXIMUM			SECT	SECTION
EQ	EQUIPMENT	MFR	MANUFACTURE			SHT	SHEET
EQUIP	EQUIPMENT	MIN	MINIMUM, MINUTE			SHTG	SHEATHING
ES	EACH SIDE	MISC	MISCELLANEOUS			SIM	SIMILAR
(E)	EXISTING	M.O.	MASONRY OPENING			SQ	SQUARE
EXIST.	EXISTING	MTD	MOUNTED			STD	STANDARD
EXP	EXPANSION	MTL	METAL			STL	STEEL
EXT	EXTERIOR	MUL	MULLION			STOR	STORAGE



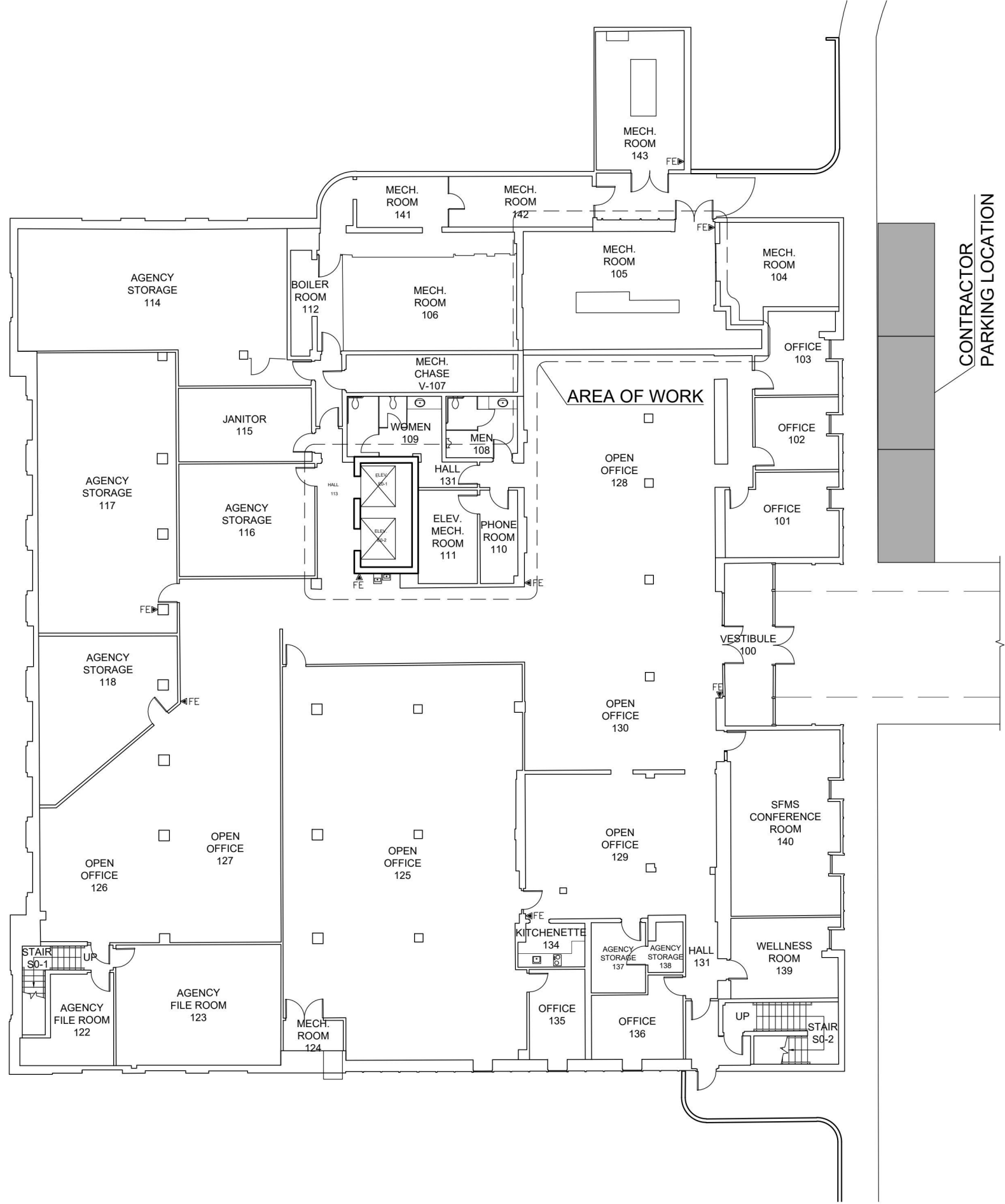
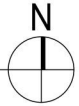
4
G001 FIFTH LEVEL
SCALE: NOT TO SCALE



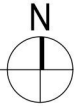
2
G001 SECOND (MAIN) LEVEL
SCALE: NOT TO SCALE



3
G001 THIRD & FOURTH LEVELS
SCALE: NOT TO SCALE



1
G001 FIRST LEVEL
SCALE: NOT TO SCALE



REVISIONS:

PROJECT INFORMATION:
PROJECT #: 19-002
DATE: 11-OCT-2019
DRAWN BY: RHA
CHECK BY: NDC
SHEET TITLE:

KEY
PLANS

SHEET #:

G
001

FULL SIZE PRINT: 22 x 34

ISSUED FOR: BID SET

MECHANICAL/PLUMBING LEGEND

1i

EQUIPMENT TAG

(E) FLOOR DRAIN

DEMOLITION WORK

EXISTING WORK

NEW WORK

#

KEYNOTE

(E) FIRE SPRINKLER

SUMP PUMP

BTU

BRITISH THERMAL UNIT

BTU/H

BRITISH THERMAL UNIT PER HOUR

DIA

DIAMETER

(E)

EXISTING

FLA

FULL LOAD AMPS

HP

HORSEPOWER

ID

INSIDE DIAMETER

MDP

MAIN DISTRIBUTION PANEL

MCC

MOTOR CONTROL CENTER

MFG

MANUFACTURER

MOCP

MAXIMUM OVERCURRENT PROTECTION

GENERAL NOTES:

1. CONCEAL ALL CONNECTIONS (REFRIGERANT, CONDENSATE DRAIN, ELECTRICAL), AND PIPING/ELECTRICAL IN FINISHED AREAS.
2. MAINTAIN WALL/ASSEMBLY RATINGS, PROVIDE FIRE STOP SEALS AS REQUIRED.
3. CONDENSATE AND REFRIGERANT PIPING SHALL NOT BE ROUTED OVER ELECTRICAL PANELS, MCC'S, MDP'S.
4. PROVIDE EQUIPMENT LABELS ON DROP CEILING FOR EXISTING PLUMBING VALVES. LABELS TO BE CONSTRUCTED OF ADHESIVE POLYESTER LABEL TAPE.

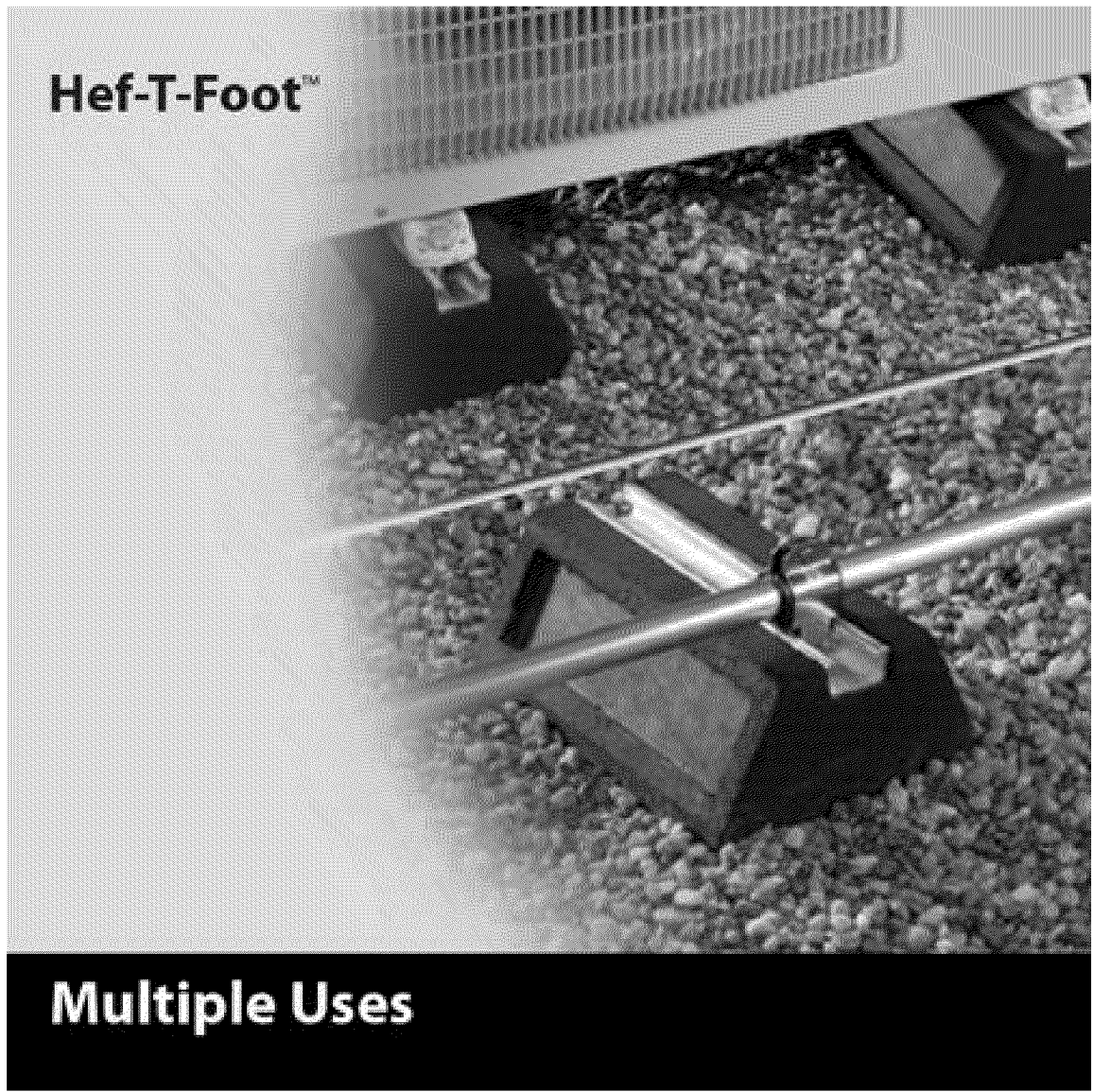
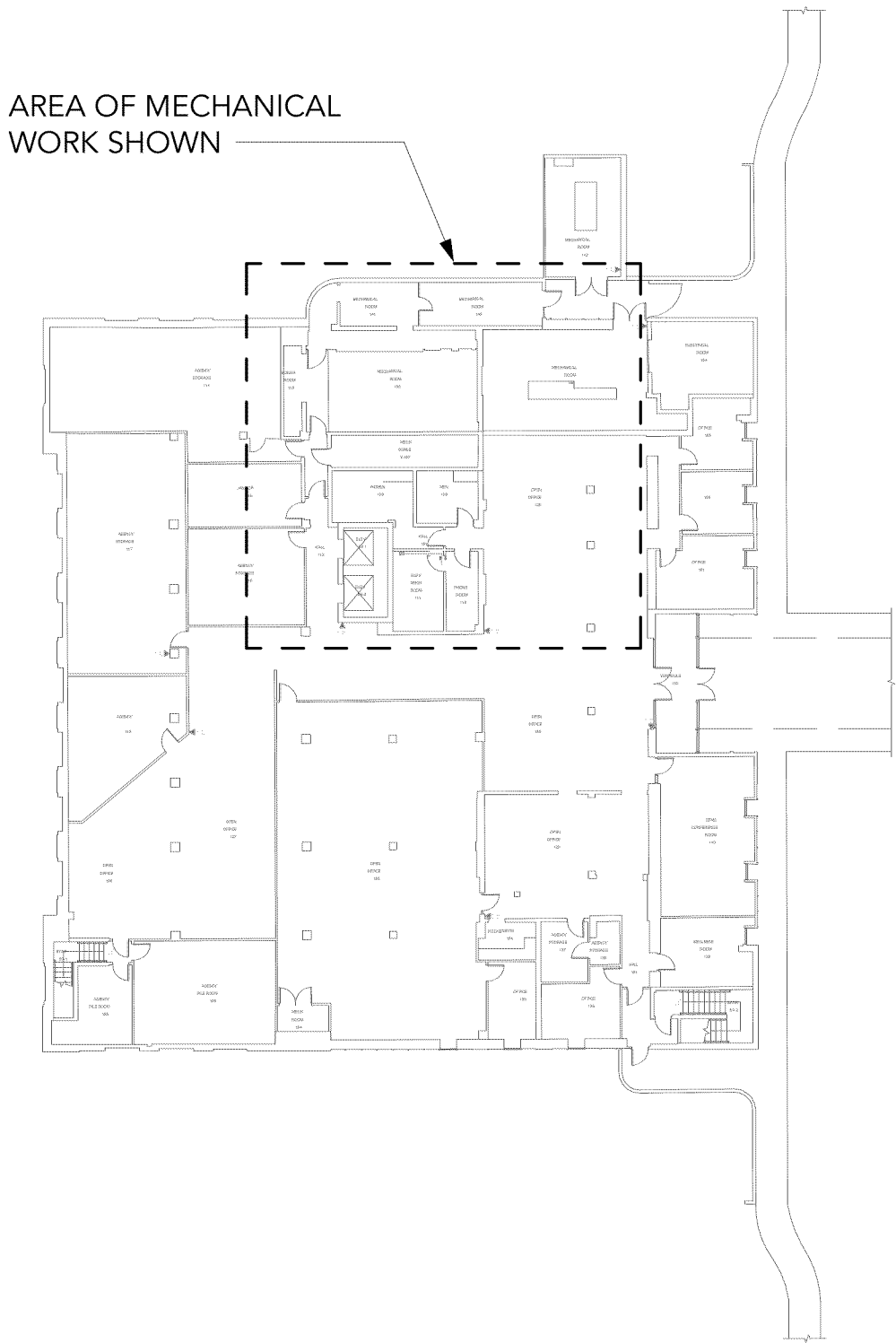
A. LETTER HEIGHT 3/8" MIN. MUST BE LEGIBLE AND ACCURATELY DESCRIBE THE DEVICE OR SYSTEM IT REFERS TO.

B. LABELS SHALL BE PLACED AT ACCESS TO THE EQUIPMENT REFERRED TO.

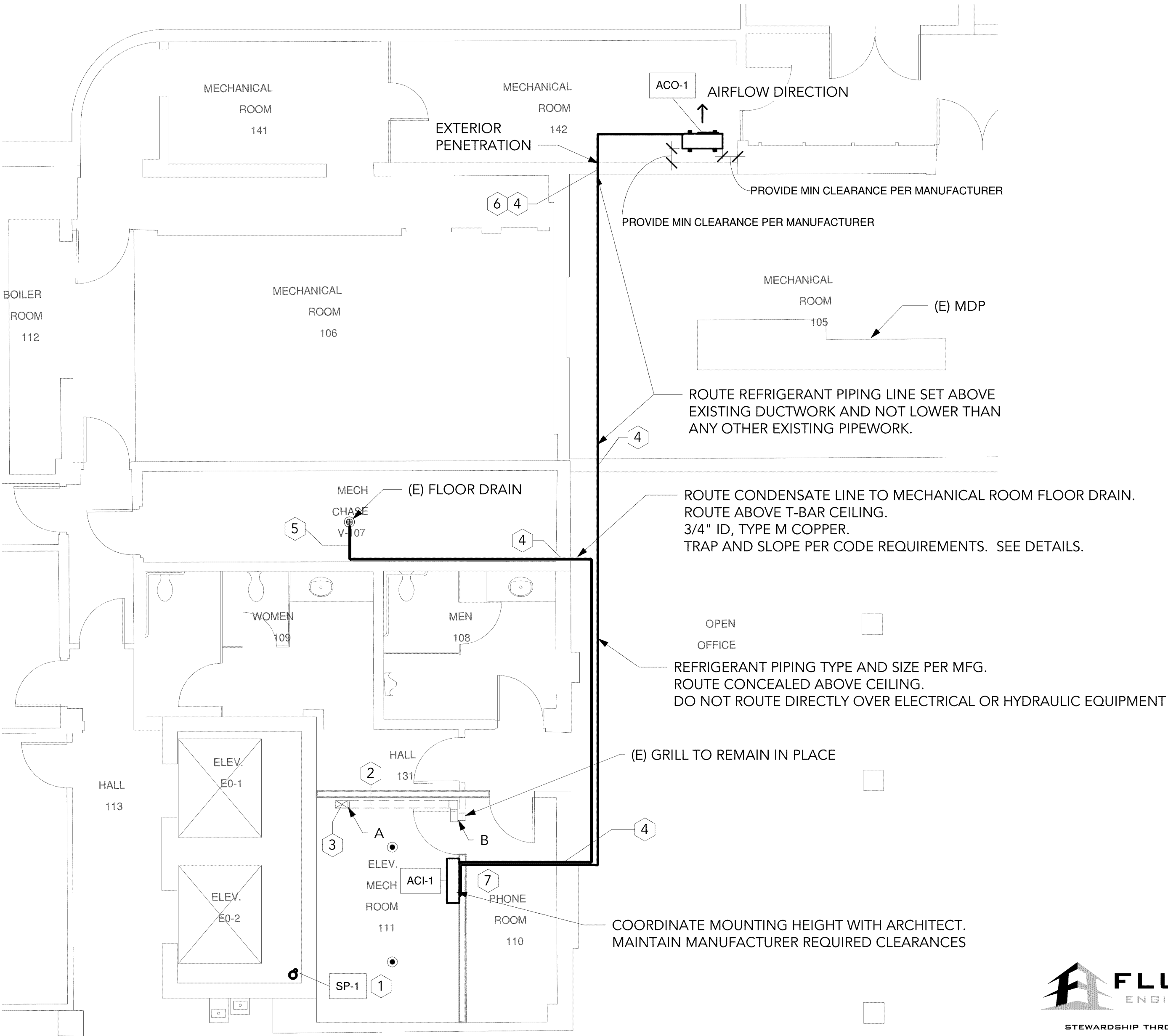
C. COLOR SHALL BE BLACK PRINT ON WHITE BACKGROUND.
5. PROVIDE PROVISION FOR ELECTRICAL RACEWAY AT COMMON CORE DRILL LOCATIONS. SEE ELECTRICAL FOR ADDITIONAL REQUIREMENTS.

KEYNOTES

1. REPLACE EXISTING SUMP PUMP AND FITTINGS WITH NEW. SEE SPECIFICATIONS. REPLACE EXPOSED PIPING AND MATCH SIZE AND TYPE WITH EXISTING.
2. DEMOLISH AND REMOVE (E) DUCTWORK BETWEEN POINTS A AND B. SEAL REMAINING DUCT OPENING CREATED BY REMOVED DUCTWORK PER SMACNA REQUIREMENTS. ELEVATOR ROOM TO EXHAUST THROUGH GRILL PER KEYNOTE 3.
3. PROVIDE NEW EXHAUST GRILL TO MECHANICAL ROOM. TITUS RL-300 OR APPROVED. MATCH GRILL SIZE AND LOCATION TO (E) DUCTWORK AND NEW CEILING GRID.
4. ROUTE PIPING TO UTILIZE EXISTING OPENINGS WHERE AVAILABLE. PROVIDE PIPE SLEEVES WITH LINK-SEAL OR APPROVED FOR ALL EXTERIOR PENETRATIONS.
5. CONDENSATE PIPE NOT PERMITTED TO REST ON GROUND. SECURE AND SUPPORT PIPE USING DIVERSITECH HEF-T-FOOT SYSTEM OR APPROVED. MAINTAIN REQUIRED SLOPE AND AIR-GAP.
6. KNOWN CORE DRILL LOCATION.
7. PROTECT (E) EQUIPMENT IN PHONE ROOM 110.



NOT BY ENGINEER OF RECORD



1ST FLOOR MECH OVERALL
1/32" = 1'-0"

HEF-T-FOOT VISUAL
N.T.S.

1ST FLOOR MECHANICAL
3/16" = 1'-0"

MECHANICAL EQUIPMENT SCHEDULE										
Mark	Manufacturer (Basis of Design)	Model # (Basis of Design)	Weight	Pump HP	Total Cooling Capacity	Voltage	Ph.	MCA	MOCP	Comments
ACO-1	Mitsubishi Electric	PUY-A18NKA7	99 lb		18,000 Btu/h	208 V	1	11 A	15 A	3, 4
ACI-1	Mitsubishi Electric	PKA-A18HA7	29 lb		18,000 Btu/h	208 V	1	1 A		1, 3, 4
SP-1	Liberty Pumps, Inc.	ELV280	30 lb	0.50 hp		115 V	1	10 A		2

- NOTES:
1. PROVIDE DRAIN PAN, CONDENSATE LIFT PUMP, AND DRAIN PAN LEVEL SENSOR. INDOOR UNIT TO SHUT DOWN UPON HIGH CONDENSATION LEVEL TO PREVENT DRAIN PAN OVERFLOW.
2. CONNECT TO PLUG-IN RECEPTICLE, SEE ELECTRICAL.
3. INDOOR UNITS RECEIVE POWER FROM OUTDOOR UNITS THROUGH FIELD-SUPPLIED INTERCONNECTED WIRING.
4. COOLING ONLY.

STEWARDSHIP THROUGH DESIGN™

2110 STATE STREET
SALEM, OREGON 97301
503-447-5030
FLUENTENGINEERING.COM

NOT FOR CONSTRUCTION WHEN UNSIGNED

DEPT. OF ADMINISTRATIVE SERVICES
EXECUTIVE BUILDING
ELEVATOR UPGRADE
155 COTTAGE STREET NE, SALEM, OREGON

PROJECT INFORMATION:
PROJECT #: 19-108
DATE: 11-OCT-2019
DRAWN BY: JJW
CHECK BY: MJC
SHEET TITLE:

MECHANICAL PLAN

SHEET #:

M
1.00

FULL SIZE PRINT: 22 x 34

ISSUED FOR: BID SET

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SOLARC
ARCHITECTURE, INC

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971.344.1919 | www.SOLARC-A.com