

June 16, 2017

## Orange County Government Capital Planning Division

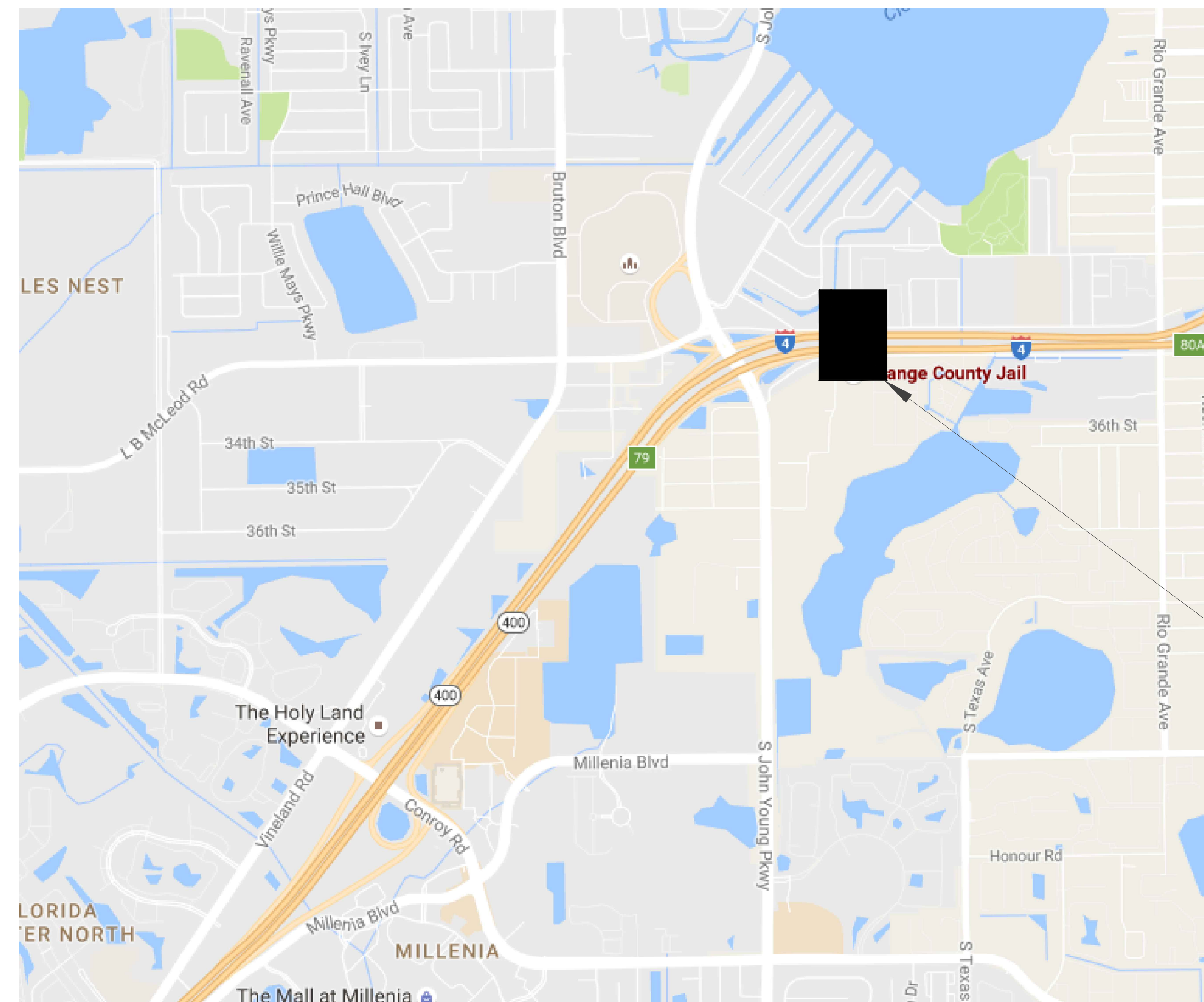
3723 Vision Blvd,  
Orlando, FL, 32839

### GENERAL SCOPE OF WORK

1. REPLACEMENT OF EXISTING (4) ELEVATOR MACHINES ALONG WITH THEIR CONTROLLERS AND DISCONNECTS.
2. REMOVAL OF EXISTING CHILLED WATER SYSTEMS AIR HANDLING UNITS, CHILLED/HEATING HOT WATER AND CONDENSATE PIPES.
3. A NEW VARIABLE REFRIGERANT FLOW (VRF) SYSTEM CONSISTING OF ONE (1) NEW WALL-MOUNTED 18 TON CONDENSING UNITS AND SIX (6) NEW 3 TON FAN COIL UNITS. INSTALLATION OF ASSOCIATED REFRIGERANT AND CONDENSATE PIPING.
4. ELECTRICAL MODIFICATIONS TO ACCOMMODATE NEW HVAC AND ELEVATOR EQUIPMENT.
5. THE NEW HVAC UNITS SHALL BE CONNECTED TO THE BUILDING WIDE MAIN BUILDING AUTOMATION SYSTEM.
6. REPLACEMENT OF EXISTING LIGHTS AND OUTLETS IN ELEVATOR PENTHOUSE.
7. ADDITIVE BID ITEM 4: NEW ROLL-UP DOOR INTO ELEVATOR MACHINE ROOM AND ASSOCIATED COMPONENTS. NEW JIB CRANE HOIST AND TROLLEY COMBINATION UNIT.

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KEY PLAN

PROJECT LOCATION

### BOARD OF COUNTY COMMISSIONERS

MAYOR - TERESA JACOBS

DISTRICT 1 COMMISSIONER - BETSY VANDERLEY

DISTRICT 2 COMMISSIONER - BRYAN NELSON

DISTRICT 3 COMMISSIONER - PETE CLARKE

DISTRICT 4 COMMISSIONER - JENNIFER THOMPSON

DISTRICT 5 COMMISSIONER - EMILY BONILLA

DISTRICT 6 COMMISSIONER - VICTORIA P. SIPLIN

### PROJECT DESIGN TEAM

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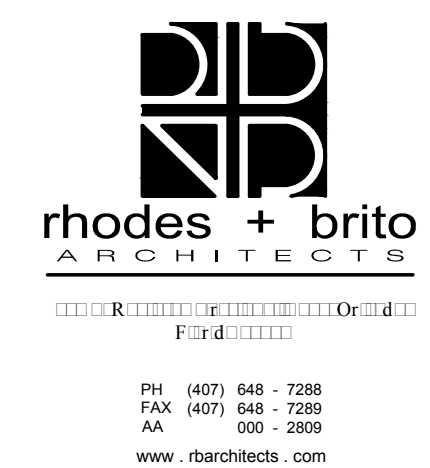
PROFESSIONAL SEALS



Client



Architect

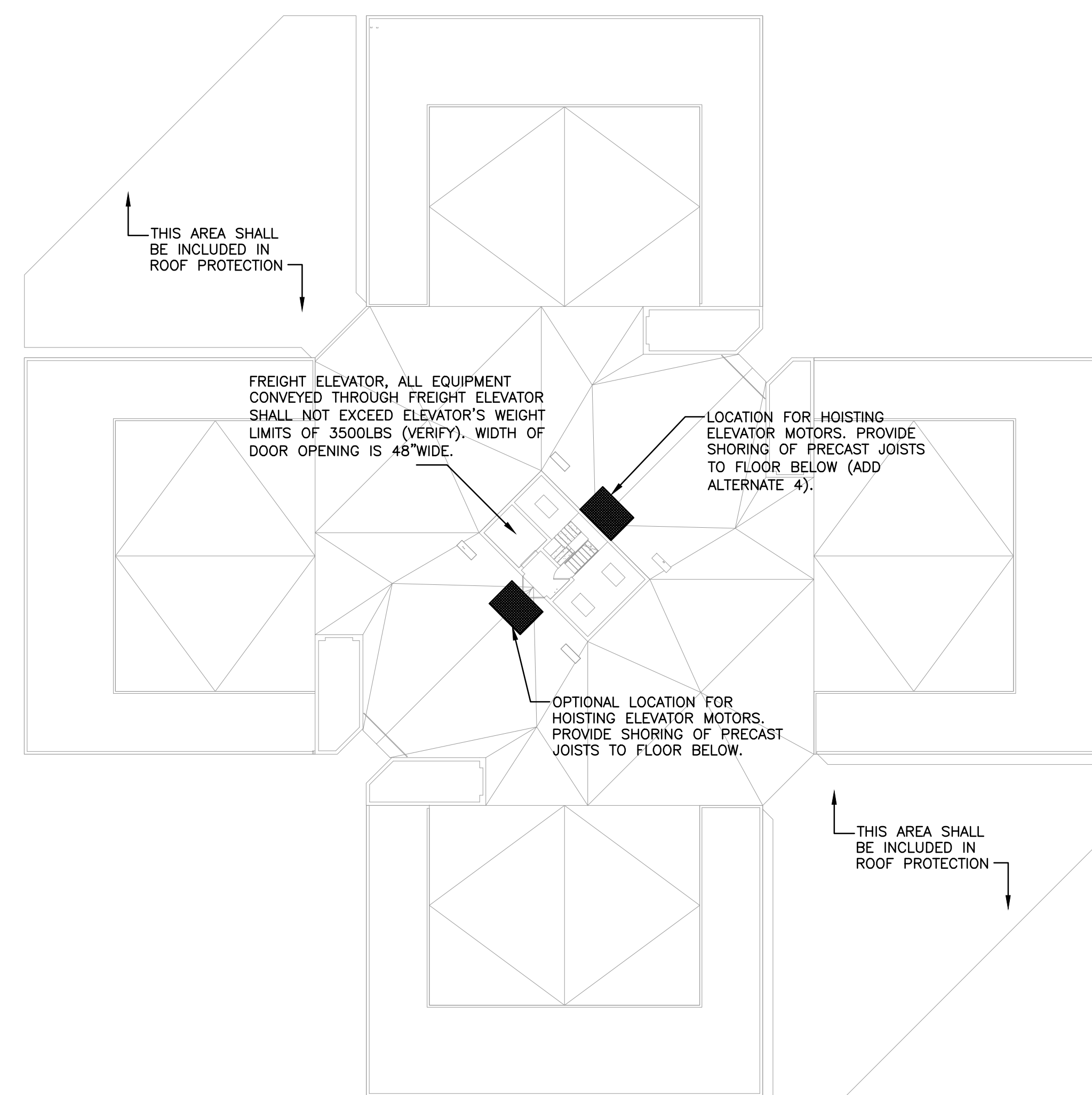


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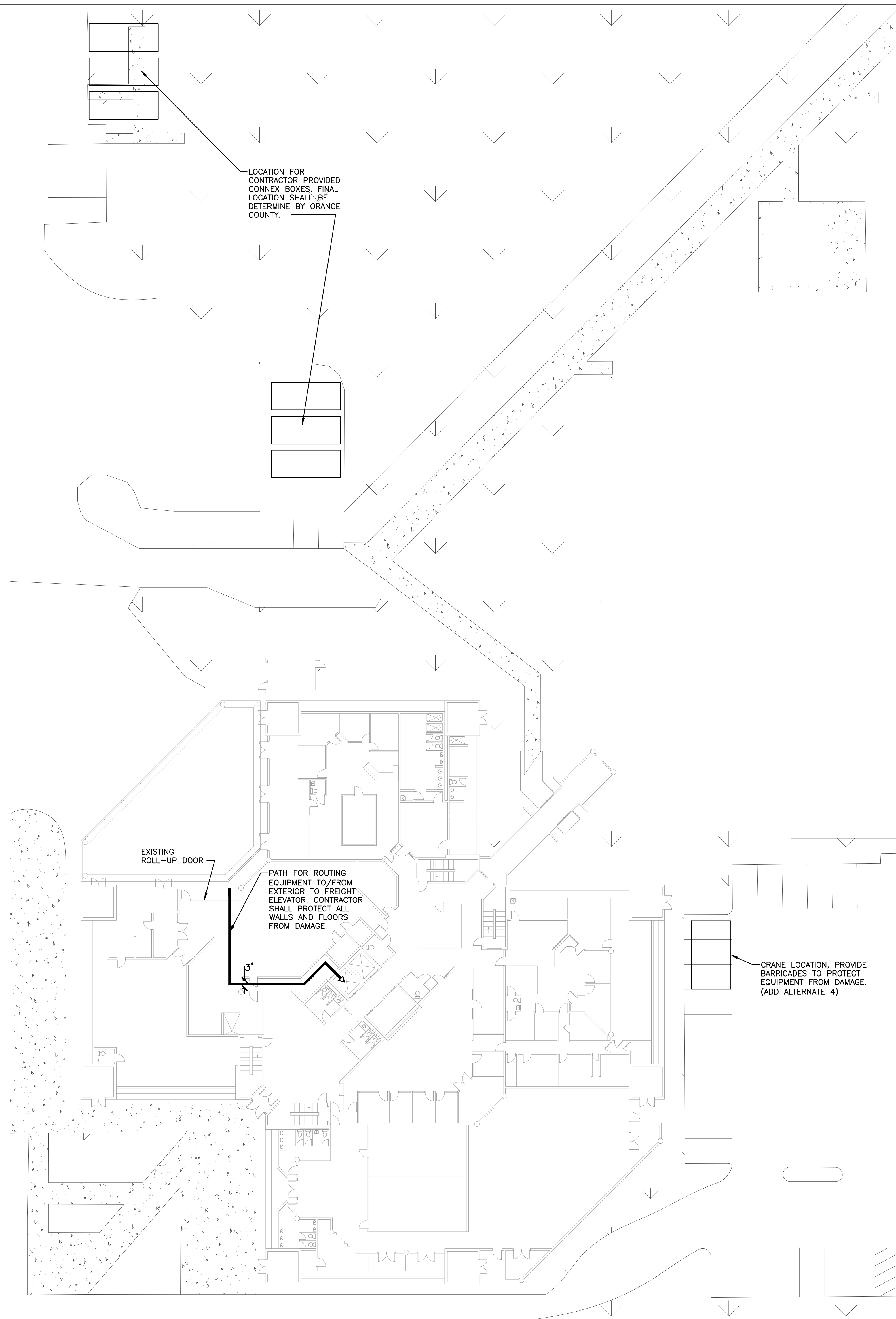
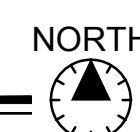
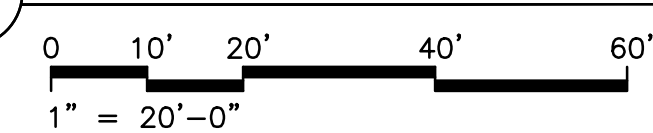


**GENERAL NOTES:**

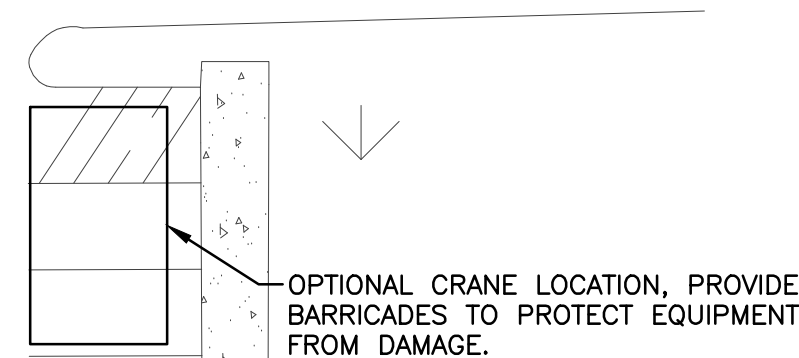
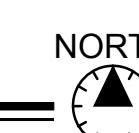
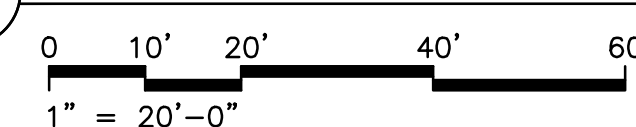
1. OC HORIZONS WILL REMAIN OPERATIONAL AT ALL TIMES. CONTRACTOR SHALL SUBMIT CONSTRUCTION PHASING PLANS PRIOR TO START OF WORK FOR APPROVAL BY ORANGE COUNTY AND ENGINEER.
2. CONTRACTOR SHALL NOTIFY ORANGE COUNTY CORRECTIONS AT LEAST TWO WEEKS PRIOR TO SHUT DOWN OF ANY ELEVATOR SYSTEMS.
3. CONTRACTOR SHALL COMPLY WITH ALL WEIGHT LIMITATIONS AS NOTED ON STRUCTURAL SHEET FOR TRANSPORTATION OF EQUIPMENT.
4. CONTRACTOR WILL BE REQUIRED TO TAKE PHOTOS AND DOCUMENT THE EXISTING CONDITION OF ROOF AND FIRST FLOOR EQUIPMENT ROUTING PATH PRIOR TO COMMENCEMENT OF WORK AND AFTER COMPLETION OF WORK. CONTRACTOR SHALL PROVIDE BOTH ROOF INSPECTION DOCUMENTS TO ORANGE COUNTY FACILITIES/ENGINEER.
5. CONTRACTOR SHALL PROVIDE PLYWOOD SHEET COVERING OVER ROOF TO CAREFULLY TRANSPORT EQUIPMENT AND DEMOLITION DEBRIS ACROSS ROOF AND MINIMIZE DAMAGES TO ROOF INCURRED DURING CONSTRUCTION.
6. CONTRACTOR SHALL COORDINATE WORK AND ESCORTING REQUIREMENTS WITH ORANGE COUNTY CORRECTIONS PRIOR TO CONTRACT COMMENCEMENT.
7. UPON COMMENCEMENT ON OF PROJECT, ELEVATOR CONTRACTOR SHALL TAKE OVER MAINTENANCE CONTRACT FOR ALL ELEVATORS WITHIN SCOPE OF WORK.
8. ELEVATOR EQUIPMENT MUST BE BROKEN DOWN INTO THE SMALLEST POSSIBLE COMPONENTS DUE TO THE NARROW TIGHT SPACES OF THE ELEVATOR MACHINE ROOM.
9. CONTRACTOR SHALL REPLACE A SINGLE ELEVATOR AT A TIME.
10. THE FREIGHT ELEVATOR REPLACEMENT SHALL BE ON AN EXPEDITED SCHEDULE. THE OTHER THREE ELEVATORS SHALL BE ON A REGULAR REPLACEMENT SCHEDULE.
11. THE FREIGHT ELEVATOR IS USED FOR INMATE MEAL-TIME CARTS. THE CONTRACTOR SHALL PROVIDE A MATERIALS MOVEMENT SCHEDULE FOR AT LEAST AN ENTIRE WEEK IN ADVANCE AROUND THE MEAL SERVICE HOURS. HORIZONS FACILITY MEAL SERVICE HOURS ARE AS FOLLOWS:  
BREAKFAST - 5AM TO 7AM  
LUNCH - 10AM TO 12PM  
DINNER - 4PM TO 6PM
12. THE CONTRACTOR WILL BE DESIGNATED A LAYDOWN AREA FOR CONNEX PRIOR TO START OF CONSTRUCTION. THE CONTRACTOR WILL BE ALLOWED TO KEEP TOOLS INSIDE A SECURABLE GANG BOX INSIDE A LOCKED CONNEX. THESE TOOLS WILL BE INVENTORIED AND ACCOUNTED FOR AT THE END OF EACH WORKDAY.
13. CONTRACTOR SHALL COORDINATE ESCORT AND BACKGROUND REQUIREMENTS WITH ORANGE COUNTY CORRECTIONS.



1 PHASING PLAN - ROOF

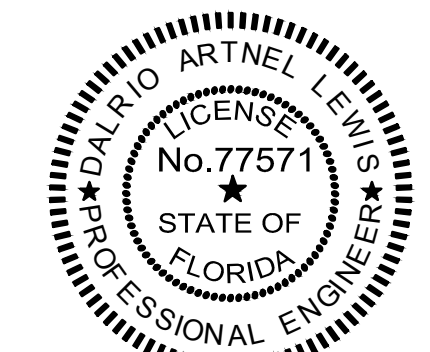


1 PHASING PLAN - FIRST FLOOR



EOR Stamp:

Engineer of Record



06/16/2017  
Dalrio Lewis, PE 77571 (FL)

Project:

ORANGE COUNTY  
CORRECTIONS  
HORIZONS ELEVATOR  
MODERNIZATION

Location:

3723 VISION BLVD.  
ORLANDO, FL 32839

Issuance:

PERMIT  
DOCUMENTS  
FOR PERMITTING & CONSTRUCTION

Revisions:

#	DATE	DESCRIPTION

Date:

JUNE 16, 2017

Project Number:

16.OC.033

Drawn By:

ME

Checked By:

MKS

PHASING PLAN

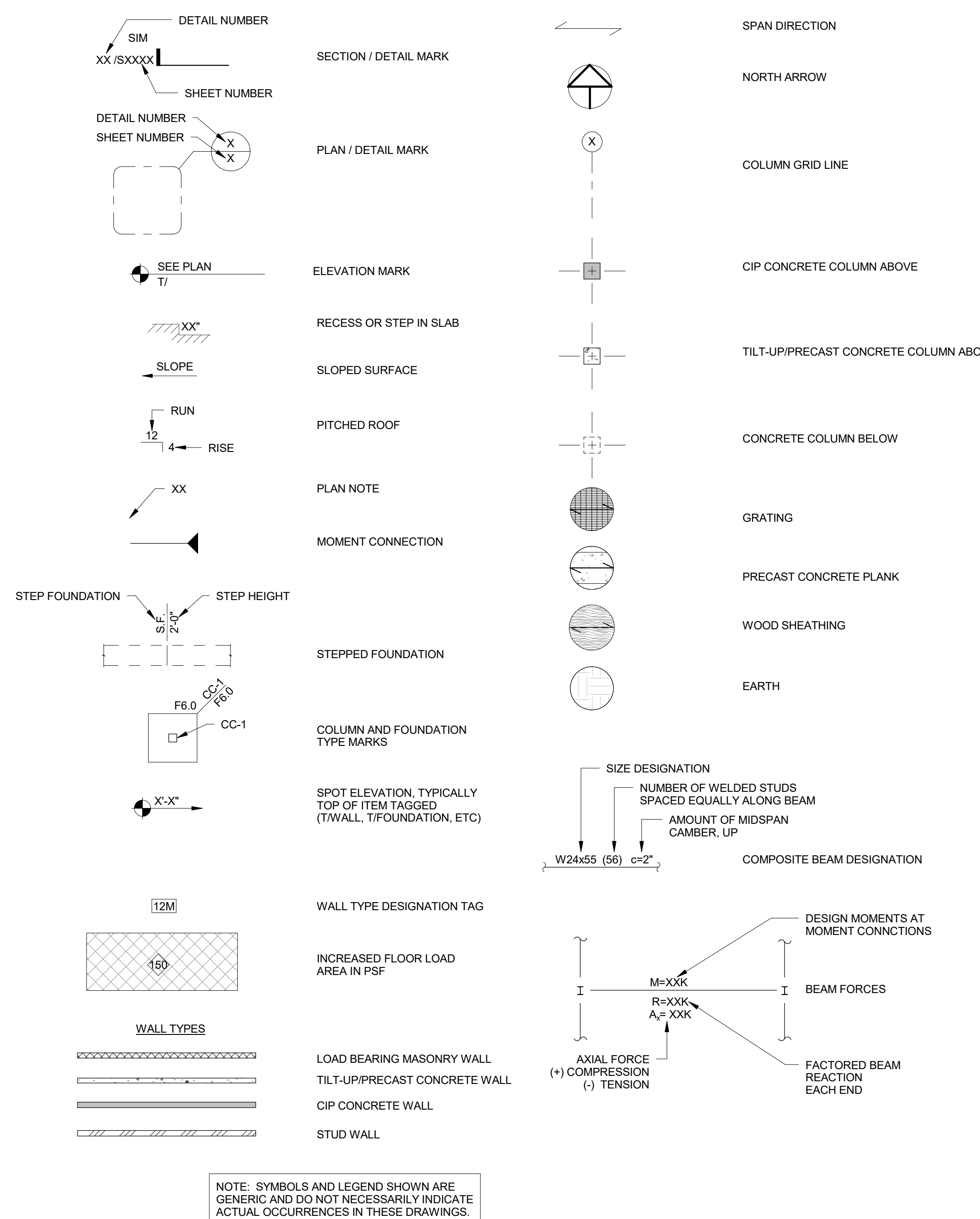
Sheet No.:

PH101

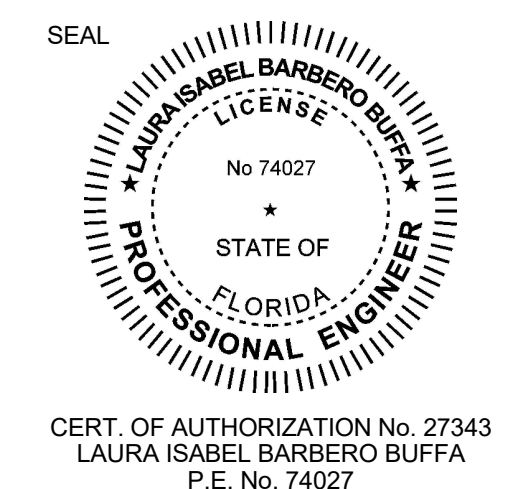
# STRUCTURAL ABBREVIATIONS

ABBREV	ABBREVIATION	LB	POUND
ACI	AMERICAN CONCRETE INSTITUTE	LGTH	LENGTH
ADD	ADDITIVE	LL	LIVE LOAD
ADNL	ADDITIONAL	LLH	LONG LEG HORIZONTAL
AFF	ABOVE FINISHED FLOOR	LLV	LONG LEG VERTICAL
AISC	AMERICAN INSTITUTE OF STEEL CONSTRUCTION	LSH	LONG SIDE HORIZONTAL
ASIS	AMERICAN IRON AND STEEL INSTITUTE	LSV	LONG SIDE VERTICAL
ALT	ALTERNATE/ALTERNATIVE	LWT	LONGITUDINAL
ALUM	ALUMINUM	LSL	LAMINATED STRAND LUMBER
ARCH	ARCHITECTURE/ARCHITECTURAL	LWT	LIGHT WEIGHT
ASTM	AMERICAN SOCIETY OF TESTING MATERIALS	LVL	LAMINATED VENEER LUMBER
AWS	AMERICAN WELDING SOCIETY		
B.O.	BOTTOM OF	MATL	MATERIAL
BLDG	BUILDING	MAX	MAXIMUM
BLK	BLOCK	MB	MASONRY BEAM
BM	BEAM	MCH	MECHANICAL
BOT	BOTTOM	MET	METAL
BP	BASE PLATE/BEARING PLATE	MFR	MANUFACTURE/MANUFACTURER
BRG	BEARING	MID	MIDDLE
BTWN	BETWEEN	MIN	MINIMUM
C	CHANNEL	MISC	MISCELLANEOUS
CB	CONCRETE BEAM	MO	MASONRY OPENING
CC	CONCRETE COLUMN	MPH	MILES PER HOUR
CF	CUBIC FEET (FOOT)	NGVD	NATIONAL GEODETIC VERTICAL DATUM
CG	CAST IN PLACE	NIC	NOT IN CONTRACT
CJ	CONSTRUCTION JOINT	NUM	NUMBER
CL	CENTERLINE	NS	NEAR SIDE
CLC	CLEARANCE	NTS	NOT TO SCALE
CM	CONCRETE MASONRY	OC	ON CENTERS
CMU	CONCRETE MASONRY UNIT	OD	OUTSIDE DIAMETER
CO	COMPANY	O.F.	OUTSIDE FACE
COL	COLUMN	OPNG	OPENING
CONC	CONCRETE	OPP	OPPOSITE
CONT	CONTINUOUS	OSB	ORIENTED STRAND BOARD
CONN	CONNECTION	P/C	PRECAST CONCRETE/PILE CAP
CONST	CONSTRUCTION	P/T	POST TENSIONED
COORD	COORDINATE	PCB	PRECAST CONCRETE BEAM
CSJ	CONSTRUCTION JOINT	PCCL	PRECAST CONCRETE COLUMN
CTR	CENTER	PCF	POUNDS PER CUBIC FEET
CTD	CENTERED	PEMB	PRE-ENGINEERED METAL BUILDING
CY	CUBIC YARD	REN	REINFORCEMENT
DEPT	DEPARTMENT	P.J.	PANEL JOINT CENTERLINE
DET	DETAIL	PL	POUNDS PER LINEAL FOOT
DIA	DIAMETER	PLNG	PLUMBING
DIAG	DIAGONAL	PLY	PLYWOOD
DM	DIMENSION	PREFAB	PREFABRICATED
DIST	DISTANCE	PSF	POUNDS PER SQUARE FOOT
DL	DEAD LOAD	PSI	POUNDS PER SQUARE INCH
DN	DOWN	PSL	PARALLEL STRAND LUMBER
DWG	DRAWING	PT	PRESSURE TREATED
EA	EACH	RD	ROOF DRAIN
EF	EACH FACE	REF	REFERENCE
EHPA	EMERGENCY HURRICANE PROTECTION AREA	REIN	REINFORCING
ELEC	ELECTRIC/ELECTRICAL	REQD	REQUIRED
EL ELEV	ELEVATION	REV	REVISION
ENGR	ENGINEER	RTU	ROOF TOP UNIT
EOD	EDGE OF DECK	SB	SOFFIT BEAM
EOR	ENGINEER OF RECORD	SCHED	SCHEDULE
EOS	EDGE OF SLAB	S.F	SQUARE FEET
ED SP	EQUAL SPACED	SF	STRIP FOUNDATION
ES	EACH SIDE	SIM	SIMILAR
EW	EACH WAY	SJC	SPACE/SPACES
EXIST	EXISTING	SPECS	SPECIFICATIONS
EXP	EXPANSION	SQ	SQUARE
EXT	EXTERIOR	SS	STAINLESS STEEL
F	FOUNDATION	STD	STANDARD
FD	FLOOR DRAIN	STIFF	STIFFENER
FDN	FOUNDATION	STL	STEEL
FF	FINISHED FLOOR	STRUCT	STRUCTURAL
FIN	FINISH	SYM	SYMMETRICAL
FIN GR	FINISH GRADE	T.O.	TOP OF
FLR	FLOOR	T&B	TOP AND BOTTOM
FS	PAR SIDE	TDS	TURN DOWN SLAB
FT	FEET/FOOT	TE	THICKENED EDGE
FTG	FOOTING	TEMP	TEMPERATURE
GA	GAGE/GAUGE	TENS	TENSION
GALV	GALVANIZED	THD	THREAD/THREADED
GB	GRADE BEAM	THK	THICK
GC	GENERAL CONTRACTOR	TOL	TOLERANCE
GEN	GENERAL	TRNS	TRANSVERSE
GL	GRID LINE	TS	TUBE STEEL
GS	GALVANIZED STEEL	T.S.	THICKENED SLAB
HD	HOT DIPPED	TWF	THICKENED WALL FOUNDATION
HDG	HOT DIPPED GALVANIZED	TYP	TYPICAL
HORIZ	HORIZONTAL	UNO	UNLESS NOTED OTHERWISE
HSA	HEADED STUD ANCHOR	VERT	VERTICAL
HSS	HOLLOW STRUCTURAL SECTION	VOL	VOLUME
HT	HEIGHT	W	WIDE FLANGE SECTION
I	MOMENT OF INERTIA	W/O	WITHOUT
ID	INSIDE DIAMETER	WD	WOOD
IF	INSIDE FACE	WF	WALL FOOTING
IN	INCH	WP	WATERPROOF
INT	INTERIOR	WP.P.	WORKING POINT
JST	JOIST	WS	WELDED STUD
JT	JOINT	WWR	WELDED WIRE REINFORCEMENT
K	KIP (1000 LB)	@	AT DESIGNATION
KLF	KIPS PER LINEAL FOOT	#	POUNDS / REBAR SIZE NUMBER
KSI	KIPS PER SQUARE INCH	+/-	PLUS OR MINUS
KWY	KEYWAY	∠	ANGLE
		C.L.	CENTER LINE
		&	AND
		Sx	SECTION MODULUS
		Ix	MOMENT OF INERTIA

# STRUCTURAL SYMBOLS AND LEGEND



STRUCTURAL SHEET INDEX					
SHEET #	SHEET TITLE	CURRENT REVISION			
		REVISION NUMBER	DATE	DESCRIPTION	
S001	ABBREVIATIONS SYMBOLS AND SHEET INDEX				
S002	STRUCTURAL GENERAL NOTES				
S301	SECTIONS & DETAILS				



Project:  
**ORANGE COUNTY CORRECTIONS HORIZONS ELEVATOR MODERNIZATION**

Location:  
 3723 VISION BLVD, ORLANDO FL 32839

Issuance:  
**PERMIT DOCUMENTS**  
 FOR PERMITTING & CONSTRUCTION

Revisions:

#	Date	Description

Date:  
 JUNE 16, 2017

Project Number:  
 16.OC.033

Drawn By: MR      Checked By: LBB

ABBREVIATIONS SYMBOLS AND SHEET INDEX

Sheet No.:  
**S001**

TO THE BEST OF THE ENGINEER'S KNOWLEDGE THE PLANS AND SPECIFICATIONS COMPLY WITH THE FLORIDA BUILDING CODE 2014.





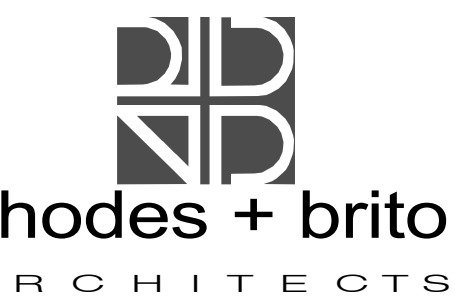


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 Certificate of Authorization #1254

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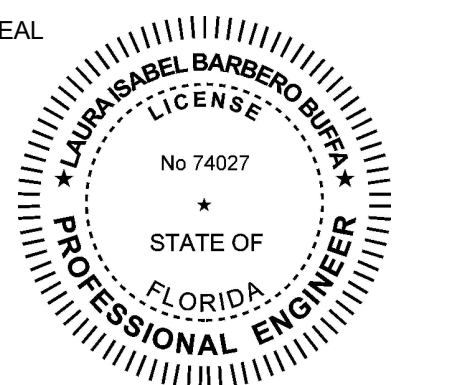


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 ORLANDO, FLORIDA 32803  
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CERT. OF AUTHORIZATION No. 27343  
 LAURA ISABEL BARBERO BUFFA  
 P.E. No. 74027

Project:  
**ORANGE COUNTY  
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 HORIZONS ELEVATOR  
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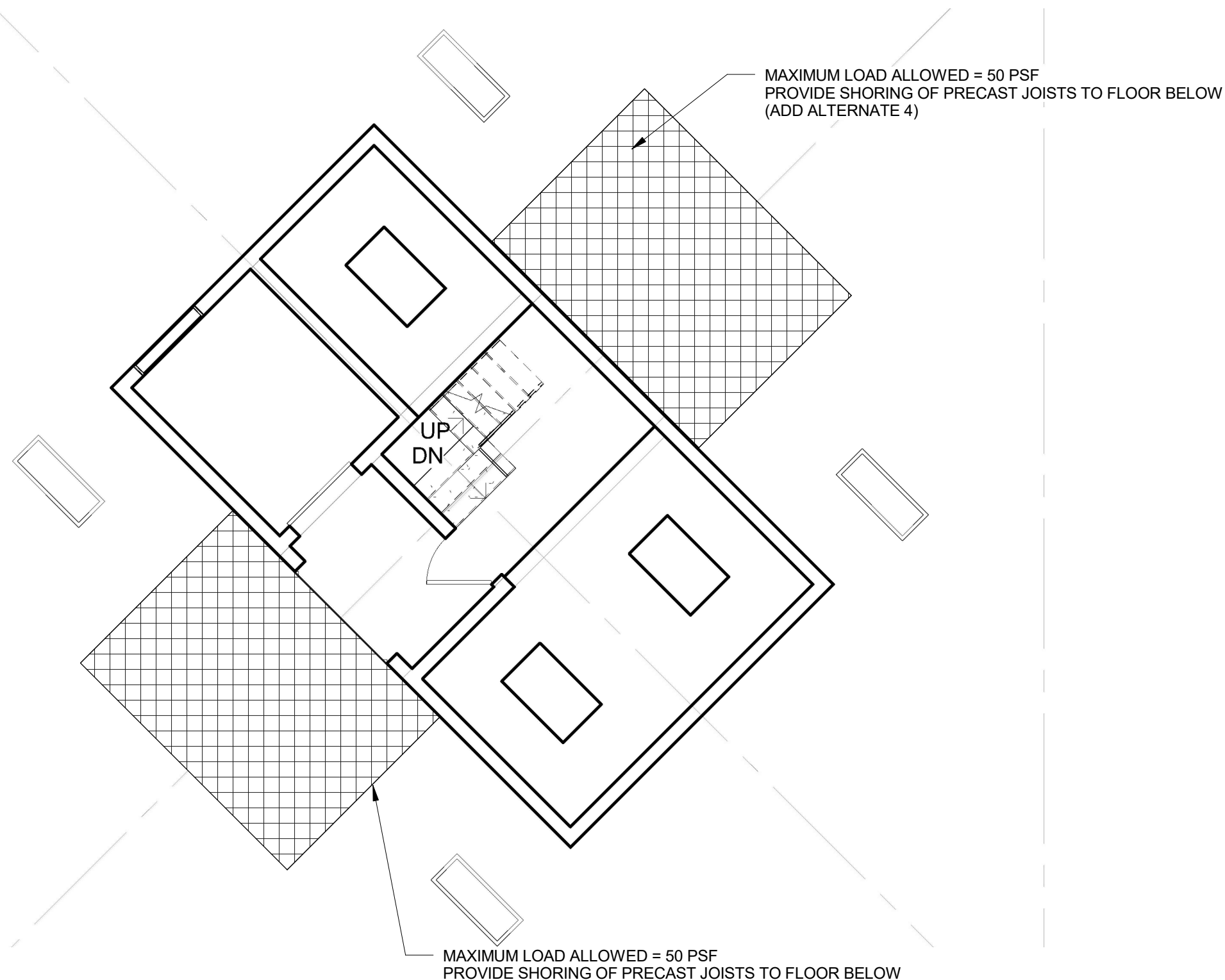
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**SECTIONS &  
 DETAILS**

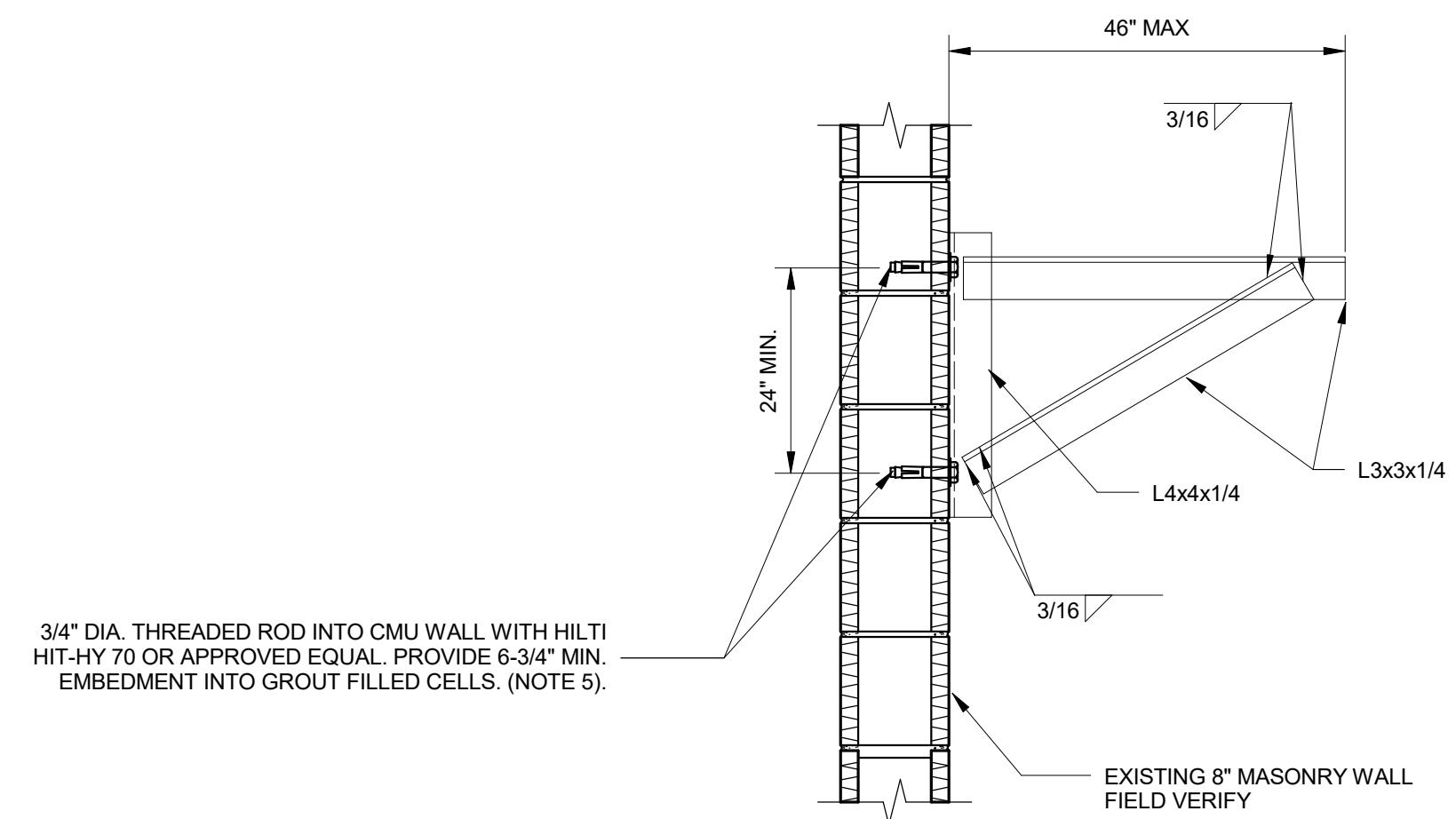
Sheet No.:  
**S301**

- SEE GENERAL NOTES AND SPECIFICATIONS FOR ADDITIONAL INFORMATION.
- THE UNIFORM LOAD ON THE ROOF DUE TO THE ELEVATOR MACHINE SHALL NOT EXCEED 50 POUNDS PER SQUARE FEET (PSF).
- THE UNIFORM LOAD ON THE ELEVATOR MACHINE ROOM STAIR AND LANDINGS SHALL NOT EXCEED 100 POUNDS PER SQUARE FEET (PSF).
- CONTRACTOR SHALL PROVIDE SHOP DRAWINGS AND CALCULATIONS SHOWING THE MEANS AND METHODS TO ENSURE NO VIOLATION OF THE 50 PSF AND 100 PSF CRITERIA AND THE DESIGN OF THE LOAD DISTRIBUTION SYSTEM TO TRANSFER THE LOAD SAFELY ONTO THE STRUCTURE.
- THE CALCULATIONS MUST BE SIGNED AND SEALED BY A SPECIALTY ENGINEER REGISTERED IN THE STATE OF FLORIDA.
- SEE 2/S-301 FOR ROOF ALLOWABLE STAGING AREA.

**3 STRUCTURAL NOTES FOR ELEVATOR MACHINE REPLACEMENT**  
 S301 3" = 1'-0"



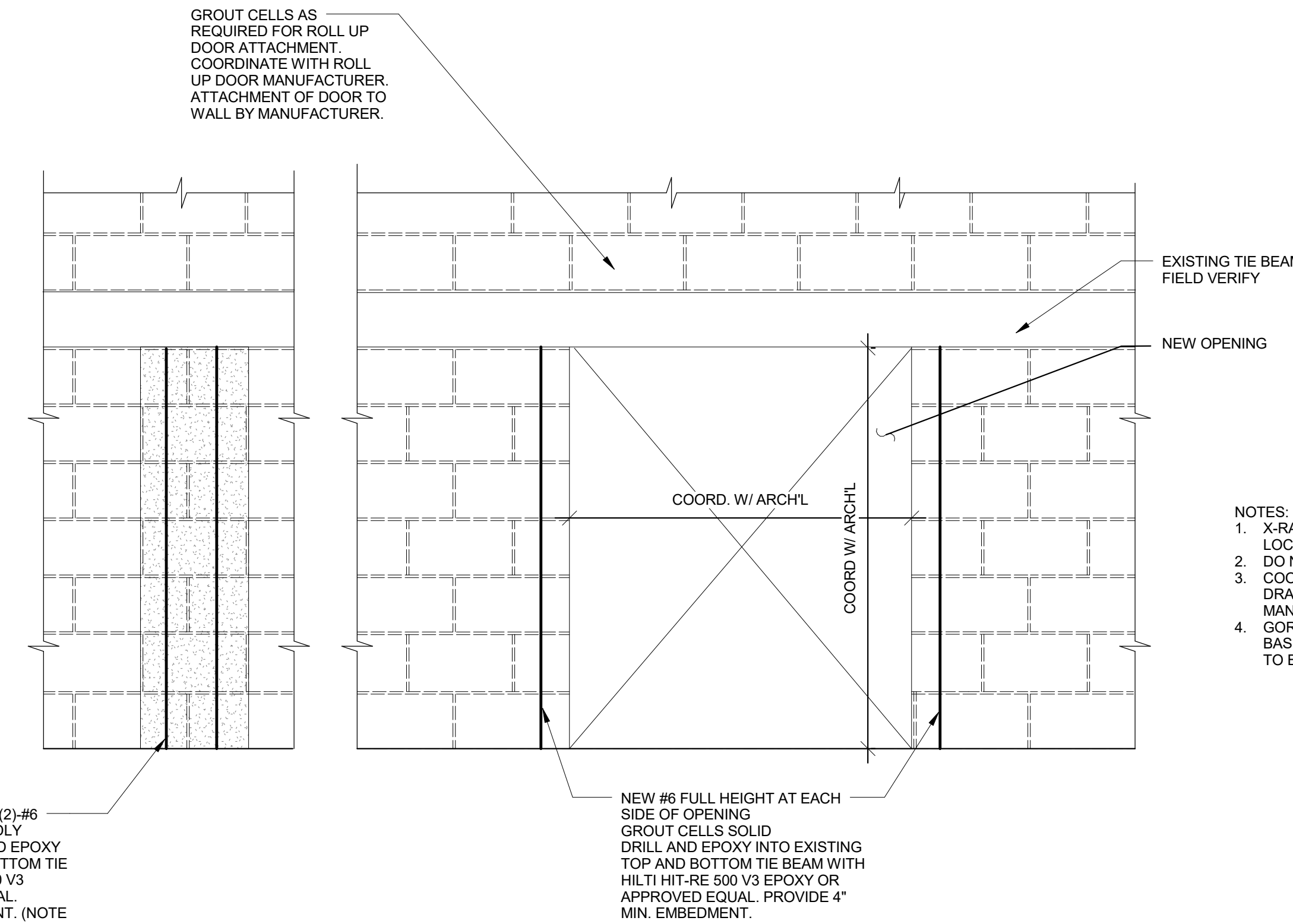
**2 ALLOWABLE STAGING AREA AND SHORING PLAN**  
 S301 1/8" = 1'-0"



3/4" DIA. THREADED ROD INTO CMU WALL WITH HILTI HIT-HY 70 OR APPROVED EQUAL. PROVIDE 6-3/4" MIN. EMBEDMENT INTO GROUT FILLED CELLS. (NOTE 5).

- NOTES:
- TWO STEEL FRAMES ARE REQUIRED AT EACH CU LOCATION. COORDINATE SPACING WITH CU DIMENSIONS.
  - VERIFY FINAL DIMENSIONS WITH MECHANICAL CONTRACTOR/EQUIPMENT SHOP DRAWINGS.
  - WEIGHT OF NEW MECHANICAL UNITS IS ASSUMED NOT TO EXCEED 700 LBS. NOTIFY EOR IF WEIGHT EXCEEDS THIS LIMIT.
  - ATTACHMENT OF MECHANICAL UNIT TO SUPPORT FRAME BY MANUFACTURER.
  - ONLY ONE ANCHOR ALLOWED PER CELL. MINIMUM DISTANCE FROM EDGE OF BLOCK: 4".

**4 CU MOUNT DETAIL**  
 S301 1" = 1'-0"

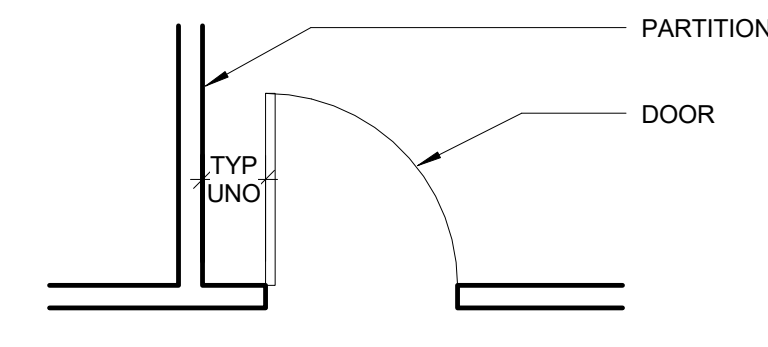
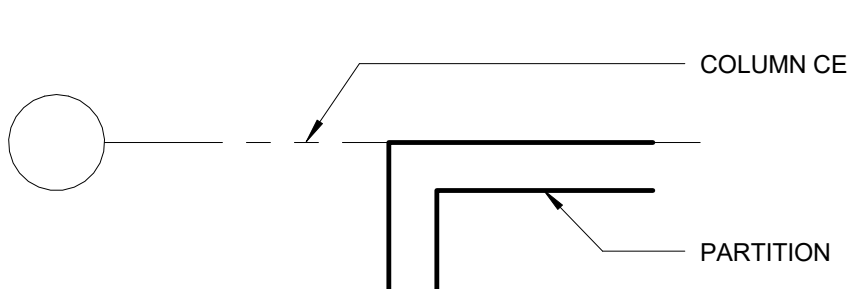
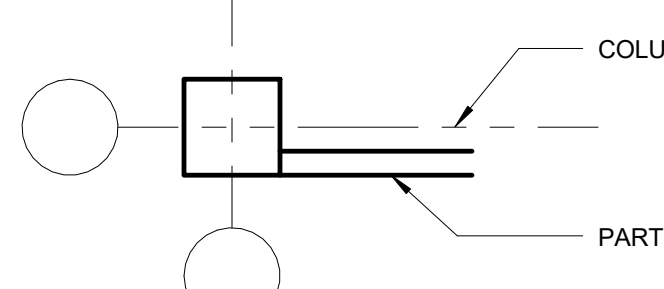
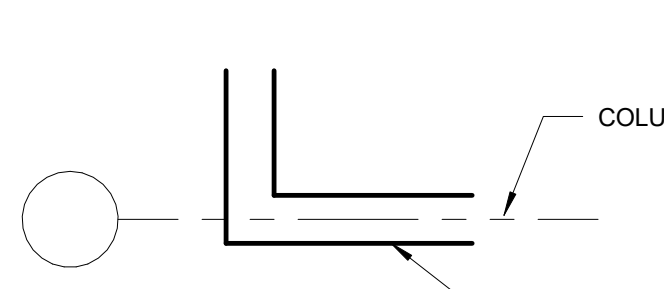


- NOTES:
- X-RAY CONCRETE BEAMS TO DETERMINE EXISTING REBAR LOCATION.
  - DO NOT DRILL THROUGH EXISTING BEAM REINFORCEMENT.
  - COORDINATE JIB SUPPORT WITH ARCHITECTURAL DRAWINGS. JIB ATTACHMENT TO WALL PER JIB MANUFACTURER.
  - GORBEL WC200-B1-8-W8 WALL CANTILEVER JIB USED AS BASIS OF DESIGN. NOTIFY EOR IF A DIFFERENT SYSTEM IS TO BE USED.

**1 ROLL UP DOOR OPENING AND JIB SUPPORT - ADDITIVE BID ITEM 4**  
 S301 3/4" = 1'-0"

TO THE BEST OF THE ENGINEER'S KNOWLEDGE THE PLANS AND SPECIFICATIONS COMPLY WITH THE FLORIDA BUILDING CODE 2014.

**DIMENSIONING**

- WHEN A ROOM/BUILDING/OBJECT CENTERLINE IS INDICATED, ONLY ONE SIDE OF ELEMENT MAY BE DIMENSIONED
- DOOR LOCATION  
DOORS ARE LOCATED BY ONE OF THE FOLLOWING:  
A. ONE JAMB FACE LOCATED BY A PARTITION AT RIGHT ANGLE.  
  
B. AS DIMENSIONED
- PARTITION FINISH FACE ON COLUMN OR GRID LINE WILL NOT BE DIMENSIONED ON SMALL SCALE PLANS BUT WILL BE DRAWN ACCORDINGLY ON LARGER SCALE DRAWINGS.  

- PARTITIONS WITH FINISH FACE FLUSH WITH FINISH FACE OF COLUMN WILL NOT BE DRAWN ON SMALL SCALE PLANS BUT WILL BE DRAWN ACCORDINGLY ON LARGER SCALE DRAWINGS.  

- PARTITIONS CENTERED ON COLUMNS OR GRID LINES WILL NOT BE DIMENSIONED ON SMALL SCALE PLANS BUT WILL BE DRAWN ACCORDINGLY ON LARGER SCALE DRAWINGS.  

- PARTITIONS ARE DIMENSIONED TO FACE OF STUDS, FACE OF CMU AND FACE OF BLOCK UNLESS INDICATED OTHERWISE
- DIMENSIONS ARE INDICATED ON DRAWINGS, DO NOT SCALE DRAWINGS

**DRAWING SYMBOL LEGEND**

**DRAWING SHEET NUMBERS**

DISCIPLINE: C - Civil, S - Structural, A - Architectural, M - HVAC, P - Plumbing, E - Electrical, L - Landscape

CATEGORY: A711A

SUBCATEGORY: A711

SHEET NUMBER: A711A

ITEM: A711

**ROOM SPACE IDENTIFICATION NOTATION**

ROOM NAME: A101

ROOM NUMBER: 100

BUILDING AREA: 100

SECTION ORIENTATION: A2

SECTION NUMBER: A711

DRAWING ON WHICH SECTION OCCURS: TYP

ELEVATION ORIENTATION: A2

ELEVATION NUMBER: A711

DRAWING ON WHICH ELEVATION OCCURS: TYP

**OFFICE IDENTIFICATION**

SPACE NAME: OFFICE

SPACE NUMBER: 135

NET ROOM AREA (SF): (123)

**REVISION SYMBOLS**

REVISION NUMBER: 1

REVISION AREA: [Symbol]

**DETAIL REFERENCE**

DETAIL NUMBER: HE, A3.11

DRAWING ON WHICH DETAIL OCCURS: [Symbol]

**GRAPHIC SCALE**

0 8 20 INDICATES FEET

**MATERIALS LEGEND**

	EARTH		DISCONTINUOUS ROUGH LUMBER
	CONCRETE		CONTINUOUS ROUGH LUMBER
	FINISH LUMBER		CONCRETE MASONRY UNITS
	PLYWOOD		RIGID INSULATION
	STEEL		GYPSUM BOARD / GROUT FILL
	BATT INSULATION		POROUS FILL

**DRAWING INDEX**

**ARCHITECTURAL**

REV. NO.	SHEET NAME
A000	GENERAL INFORMATION
AD149	FLOOR PLAN - DEMOLITION
A149	PLANS, ELEVATIONS, & DETAILS
Grand total: 3	



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AOR Stamp: 06/16/16

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Project:  
**ORANGE COUNTY CORRECTIONS HORIZONS ELEVATOR MODERNIZATION**

Location:  
3723 VISION BLVD,  
ORLANDO FL 32839

Issuance:  
**PERMIT DOCUMENTS**  
FOR PERMITTING & CONSTRUCTION

Revisions:

#	Date	Description

Date:  
JUNE 16, 2017

Project Number:  
16.OC.033

Drawn By: DC Checked By: MB

**GENERAL INFORMATION**

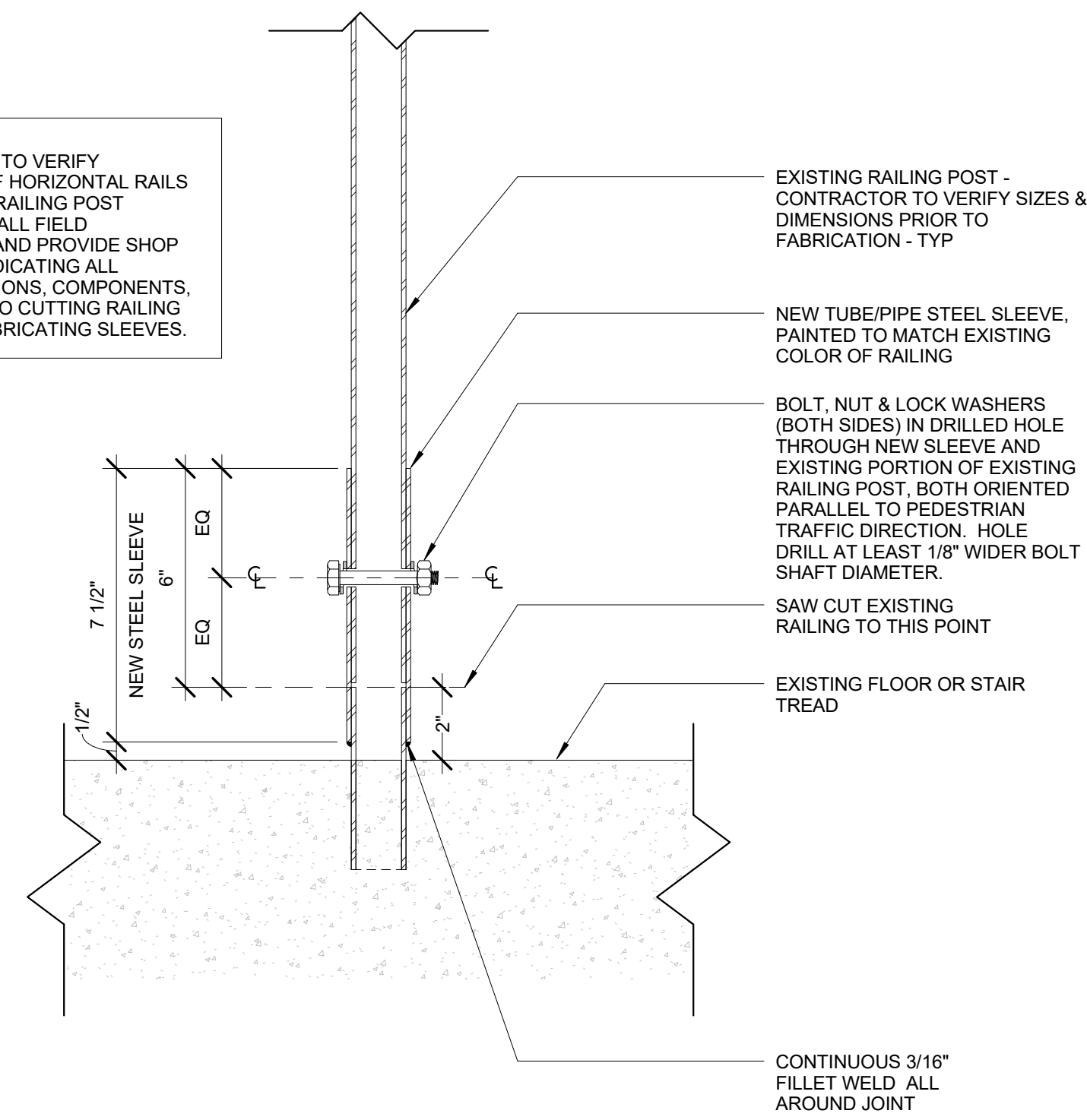
Sheet No.:  
**A000**

**LIST OF ABBREVIATIONS**

AB	ANCHOR BOLT	CAB	CABINET	DIA	DIAMETER	FA	FIRE ALARM	HB	HOSE BIBB	LAB	LABORATORY	N	NORTH	QT	QUARRY TILE	S	SOUTH	UC	UNDERCUT
ABV	ABOVE	CAT	CATEGORY	DBL	DOUBLE	FAS	FAS FASTENERS	HBD	HARDBOARD	LAM	LAMINATE	NA	NOT APPLICABLE	QTR	QUARTER	SC	SOLID CORE	UL	UNDERWRITERS LABORATORY
AC	AIR CONDITIONING	CB	CAST BRICK	DEMO	DEMOLISH, DEMOLITION	FB	FACE BRICK	HC	HOLLOW CORE	LAV	LAVATORY	NGVD	NATIONAL GEODETIC			SCHED	SCHEDULE	UNF	UNFINISHED
ACC	ACOUSTICAL	CC	CENTERS TO CENTER	DEP	DEPRESSED	FBO	FURNISHED BY OTHERS	HCL	HEAVY DUTY	LAG	LAG BOLT	NO	NOT IN CONTRACT			SD	STORM DRAIN	UNO	UNLESS NOTED OTHERWISE
ACPL	ACOUSTICAL PLASTER	CFT	CUBIC FOOT	DEPT	DEPARTMENT	FCO	FLOOR CLEAN OUT	HDR	HEADER	LBL	LABEL	NIC	NOT TO SCALE			SECT	SECTION	UR	URNAL
AD	AREA DRAIN	CG	CORNER GUARD	DIA	DIAGONAL	FD	FLOOR DRAIN	HJT	HOLE JOINT	LF	LINEAR FOOT	NO	NOMINAL	R	RISER	SFG	SAFETY GLASS		
ADD	ADDENDUM	CHM	CHAMFER	DIA	DIAMENSION	FE	FIRE EXTINGUISHER	HMR	HOLLOW METAL	LI	LEFT HAND	NOM	NOMINAL	RA	RETURN AIR	SFG	SHEET GLASS	VAT	VINYL ASBESTOS TILE
ADD	ADDITIONAL	CHM	CHAMFER	DIA	DIAMETER	FF	FACTORY FINISH	HMR	HOLLOW METAL	LS	LEFT HAND	NTS	NOT TO SCALE	RAD	RADIUS	SH	SHELVING	VAR	VARNISH
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**NOTE**  
CONTRACTOR TO VERIFY LOCATIONS OF HORIZONTAL RAILS OF RAILINGS, RAILING POST DIAMETER(S), ALL FIELD CONDITIONS, AND PROVIDE SHOP DRAWINGS INDICATING ALL SIZES/DIMENSIONS, COMPONENTS, ETC. PRIOR TO CUTTING RAILING POSTS OR FABRICATING SLEEVES.



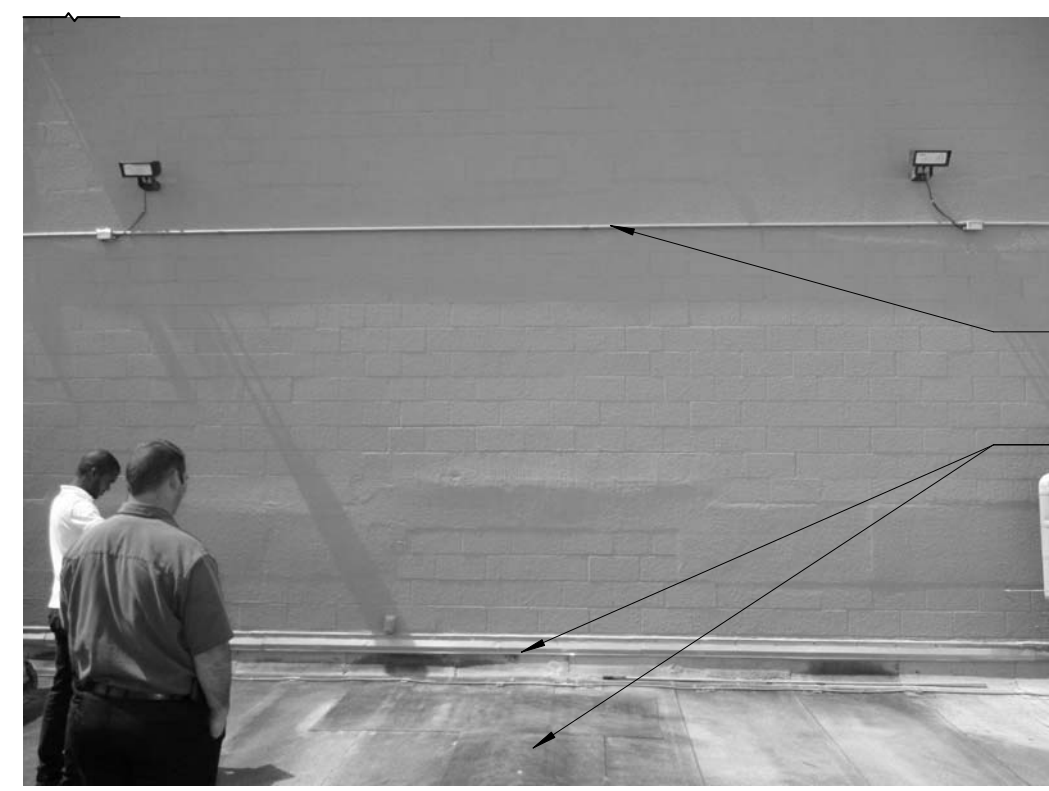
**EXISTING RAILING POST SLEEVE DETAIL**

SCALE: 3" = 1'-0"



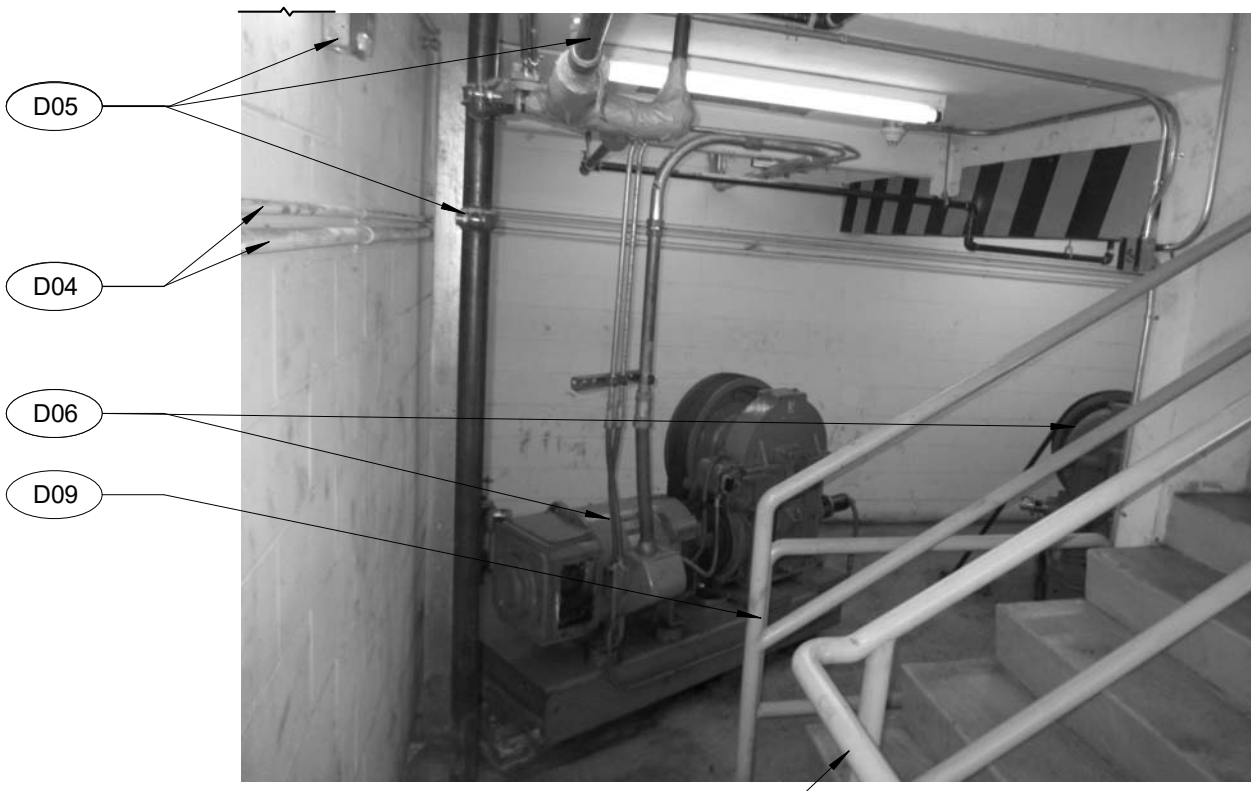
**EXISTING PHOTO AT EXTERIOR SIDE OF EAST WALL**

SCALE: 1/4" = 1'-0"



**EXISTING PHOTO AT EXTERIOR SIDE OF EAST WALL**

SCALE: 1/4" = 1'-0"



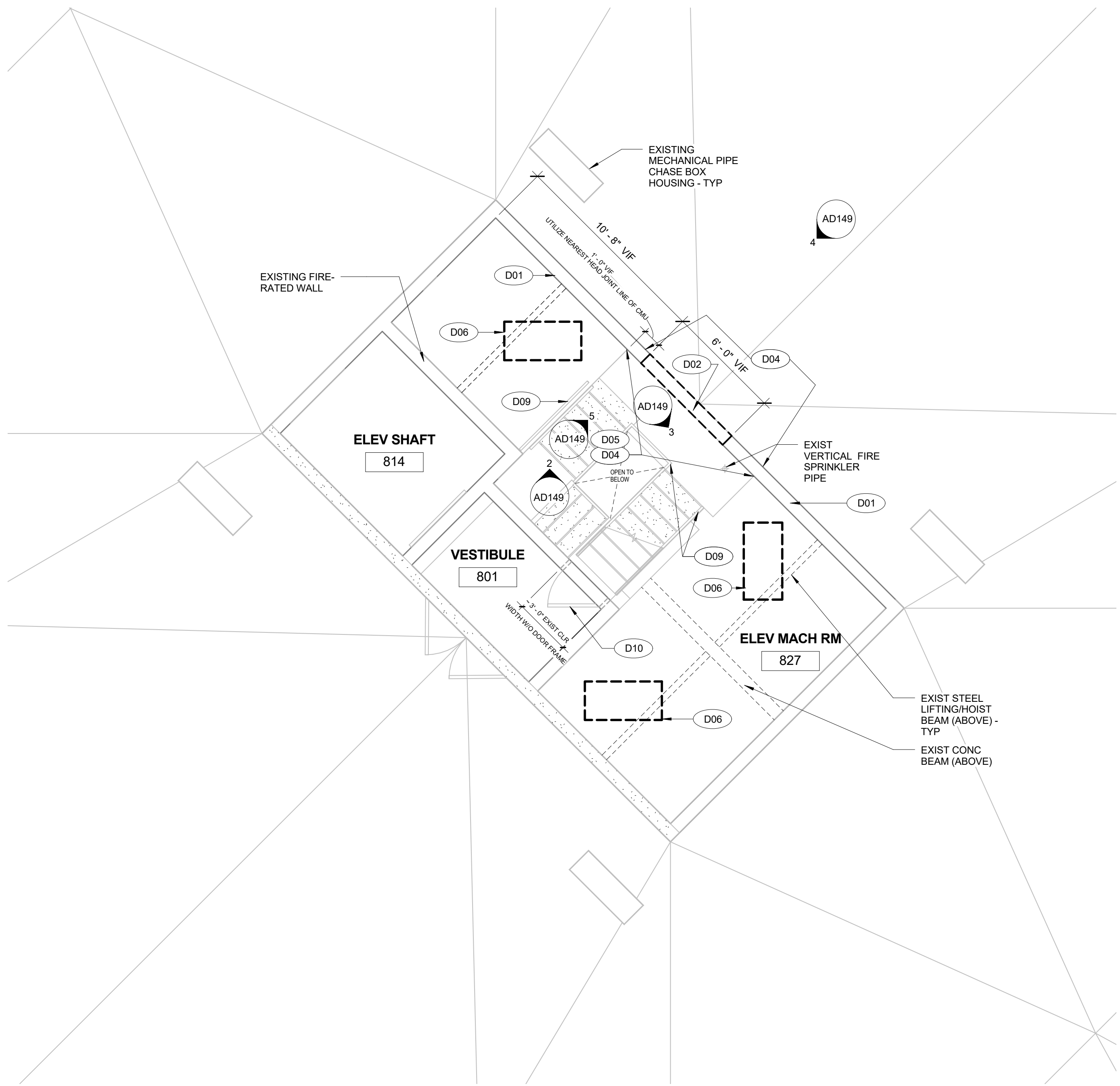
**EXISTING PHOTO AT ELEV MACH RM (827) INTERIOR SOUTH SIDE**

SCALE: 1/4" = 1'-0"



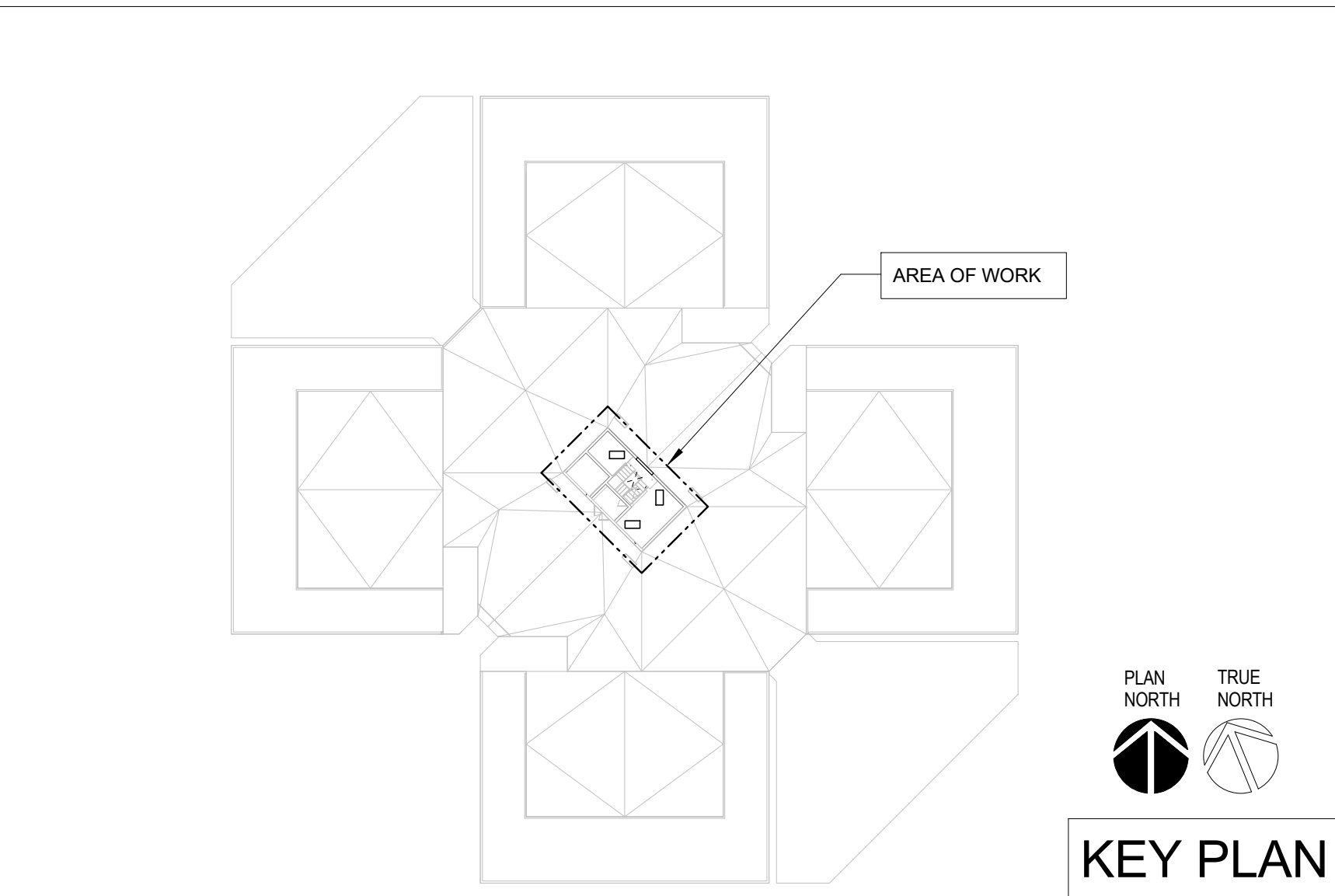
**EXISTING PHOTO AT ELEV MACH RM (827) INTERIOR NORTH SIDE**

SCALE: 1/4" = 1'-0"



**FLOOR PLAN - PENTHOUSE ELEV MACHINE RM - DEMOLITION**

SCALE: 1/4" = 1'-0"



PLAN NORTH TRUE NORTH

**KEY PLAN**

**GENERAL NOTES - DEMOLITION**

- A DRAWINGS REPRESENT EXISTING CONDITIONS BASED ON LIMITED EXISTING AS-BUILT DRAWINGS AND SITE OBSERVATIONS. CONTRACTOR IS RESPONSIBLE FOR FIELD VERIFICATION OF ALL ACTUAL CONDITIONS AND DIMENSIONS.
- B THE CONTRACTOR WILL BE PRESUMED TO HAVE INSPECTED THE SITE AND TO HAVE READ AND THOROUGHLY FAMILIAR WITH THE CONSTRUCTION DOCUMENTS AND SPECIFICATIONS. THE FAILURE OR OMISSION OF ANY CONTRACTOR FROM ANY OBLIGATION IN RESPECT TO THIS PROJECT.
- C THIS SHEET INDICATES GENERALLY WHERE DEMOLITION OF EXISTING CONSTRUCTION IS TO OCCUR. THE DEMOLITION SHOWN ON THIS SHEET IS NOT INTENDED TO LIMIT OR FULLY DEFINE THE SCOPE OF ITEMS TO BE REMOVED, NOR IS IT INTENDED TO REPRESENT ALL EXISTING FEATURES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR SURVEYING THE AREA OF DEMOLITION IN ORDER TO BECOME FAMILIAR WITH EXISTING CONSTRUCTION WHERE DEMOLITION IS TO OCCUR. THE CONTRACTOR IS TO NOTIFY THE OWNER IN WRITING OF ANY CONFLICTING CONDITIONS AND DISCREPANCIES PRIOR TO START OF DEMOLITION.
- D DEMOLITION DRAWINGS MAY NOT INDICATE ALL ITEMS TO BE REMOVED OR TO REMAIN. COORDINATE DEMOLITION OF WALLS, FLOORS, SLABS, EQUIPMENT, UTILITIES, ETC. AND ITEMS TO REMAIN WITH OTHER DISCIPLINES.
- E CONTRACTOR SHALL VERIFY ALL UTILITIES (SHOWN OR NOT SHOWN ON CONSTRUCTION DOCUMENTS) THAT ARE TO REMAIN PRIOR TO DEMOLITION OR CUTTING INTO ANY WALL. PERMANENT PROCEDURES ARE TO BE MADE TO RE-ROUTE OR BYPASS UTILITIES THAT ARE CLEARLY VISIBLE (WITHOUT DEMOLITION).
- F PRIOR TO START OF DEMOLITION, THE CONTRACTOR SHALL SURVEY THE AREA OF DEMOLITION IN THE PRESENCE OF THE OWNER REPRESENTATIVE(S) TO IDENTIFY EXISTING ITEMS TO REMAIN, TO BE SALVAGED, TO BE REMOVED AND REINSTALLED DURING CONSTRUCTION, DAMAGED OR OTHERWISE NOT IN "LIKE NEW" CONDITION. THOSE ITEMS AND THEIR CONDITION ARE TO BE LISTED IN A "DAMAGE SURVEY" ACCEPTED BY BOTH OWNER AND CONTRACTOR. ANY ITEMS THAT SUSTAIN DAMAGE WHICH ARE IDENTIFIED AS "EXISTING TO REMAIN," "TO BE SALVAGED," AND/OR "TO BE REMOVED AND REINSTALLED DURING NEW CONSTRUCTION" SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO REPAIR, OR REPLACE AT NO ADDITIONAL COST TO THE OWNER.
- G WHERE EXISTING WALL MOUNTED DEVICES, FIXTURES, EQUIPMENT, ETC ARE SCHEDULED TO BE REMOVED, STORED AND REINSTALLED DURING CONSTRUCTION, CONTRACTOR SHALL COORDINATE STORAGE WITH OWNER AND SHALL PROTECT THOSE ITEMS FROM DAMAGE DURING CONSTRUCTION.
- H PARTITIONS TO BE REMOVED SHALL BE REMOVED ENTIRELY, INCLUDING STUD BRACING, ETC. TO THE BOTTOM OF STRUCTURE, UNO.
- I CONTRACTOR IS TO PROVIDE ALL PERMITS AND COMPLY WITH ALL APPLICABLE ORDINANCES, REGULATIONS, AND CODES IN THE REMOVAL AND DISPOSAL OF MATERIAL. DISPOSAL OF ALL RUBBISH AND DEBRIS IS TO BE IN AN ENVIRONMENTALLY SAFE MANNER IN ACCORDANCE WITH ALL APPLICABLE LOCAL CODES AND JURISDICTIONS.

**DEMOLITION KEYNOTE LEGEND**

- D01 EXISTING PORTION OF MASONRY WALL TO REMAIN. PROTECT FROM DAMAGE DURING CONSTRUCTION. REFER TO STRUCTURAL DRAWINGS FOR PREPARATIONS FOR NEW CONSTRUCTION.
- D02 ADDITIVE BID ITEM 04- EXISTING PORTION OF MASONRY WALL TO BE REMOVED IN ITS ENTIRETY UP TO UNDERSIDE OF CONCRETE BEAM ABOVE THE FINISHED FLOOR. REFER TO STRUCTURAL DRAWINGS FOR PREPARATIONS FOR NEW CONSTRUCTION.
- D04 ADDITIVE BID ITEM 04- EXISTING ELECTRICAL LIGHT FIXTURE(S) AND CONDUIT WITHIN THE AFFECTED AREA OF WORK. REFER TO ENGINEERING DRAWINGS FOR RE-ROUTING OF CONFLICTING UTILITIES.
- D05 EXISTING FIRE PIPE LINES AND FIRE SYSTEM DEVICES WITHIN THE AFFECTED AREA OF WORK. REFER TO ENGINEERING DRAWINGS FOR ADDITIONAL INFORMATION.
- D06 EXISTING ELEVATOR EQUIPMENT. REFER TO ENGINEERING AND/OR ELEVATOR CONSULTANT DOCUMENTS FOR ADDITIONAL INFORMATION.
- D07 EXISTING ROOFING AND FLASHING TO BE PROTECTED FROM DAMAGE DURING CONSTRUCTION. REFER TO STRUCTURAL ENGINEERING DRAWINGS FOR LOADING/SHORING LOCATIONS AND REQUIREMENTS.
- D08 EXISTING STEEL ANGLE TO REMAIN. PROTECT FROM DAMAGE DURING CONSTRUCTION.
- D09 EXISTING RAILING TO BE TEMPORARILY REMOVED AS NEEDED TO FACILITATE VERTICAL MOVEMENT OF ELEVATOR EQUIPMENT AND TO BE RE-INSTALLED IN THE ORIGINAL LOCATION(S) AT THE COMPLETION OF WORK. RAILING POSTS TO BE CUT CONSISTENTLY AT EACH STAIR TREAD LEVEL OR FLOOR LEVEL TO MAINTAIN ORIGINAL HEIGHTS ABOVE THE FINISHED FLOOR OF THE TOP RAIL. REF: ARCH RAILING SLEEVE DETAIL. RAILING POSTS WILL RE-INSERT INTO NEW SLEEVES IN THE NEW CONSTRUCTION MAKING THE GUARDRAILS DEMOUNTABLE TO FACILITATE FUTURE BUILDING MAINTENANCE WORK.
- D10 EXISTING DOOR FRAME TO BE REMOVED IF REQUIRED IN ORDER TO FACILITATE THE MOVEMENT OF THE ELEVATOR EQUIPMENT. EXISTING DOOR AND ALL DOOR HARDWARE TO BE SALVAGED AS MUCH AS POSSIBLE, AND A NEW DOOR FRAME TO BE INSTALLED IN THE NEW CONSTRUCTION TO MATCH EXISTING OR COMPLY WITH INSTITUTIONAL REQUIREMENTS, WHICHEVER IS MOST RESTRICTIVE. EXISTING WALL ROUGH OPENING SIZE TO BE MAINTAINED, NO ALTERNATIONS.

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**FLOOR PLAN - DEMOLITION**

Sheet No.: **AD149**











Client



Architect



Structural:



EOR Stamp:

Engineer of Record



06/16/2017  
Dalrio Lewis, PE 77571 (FL)

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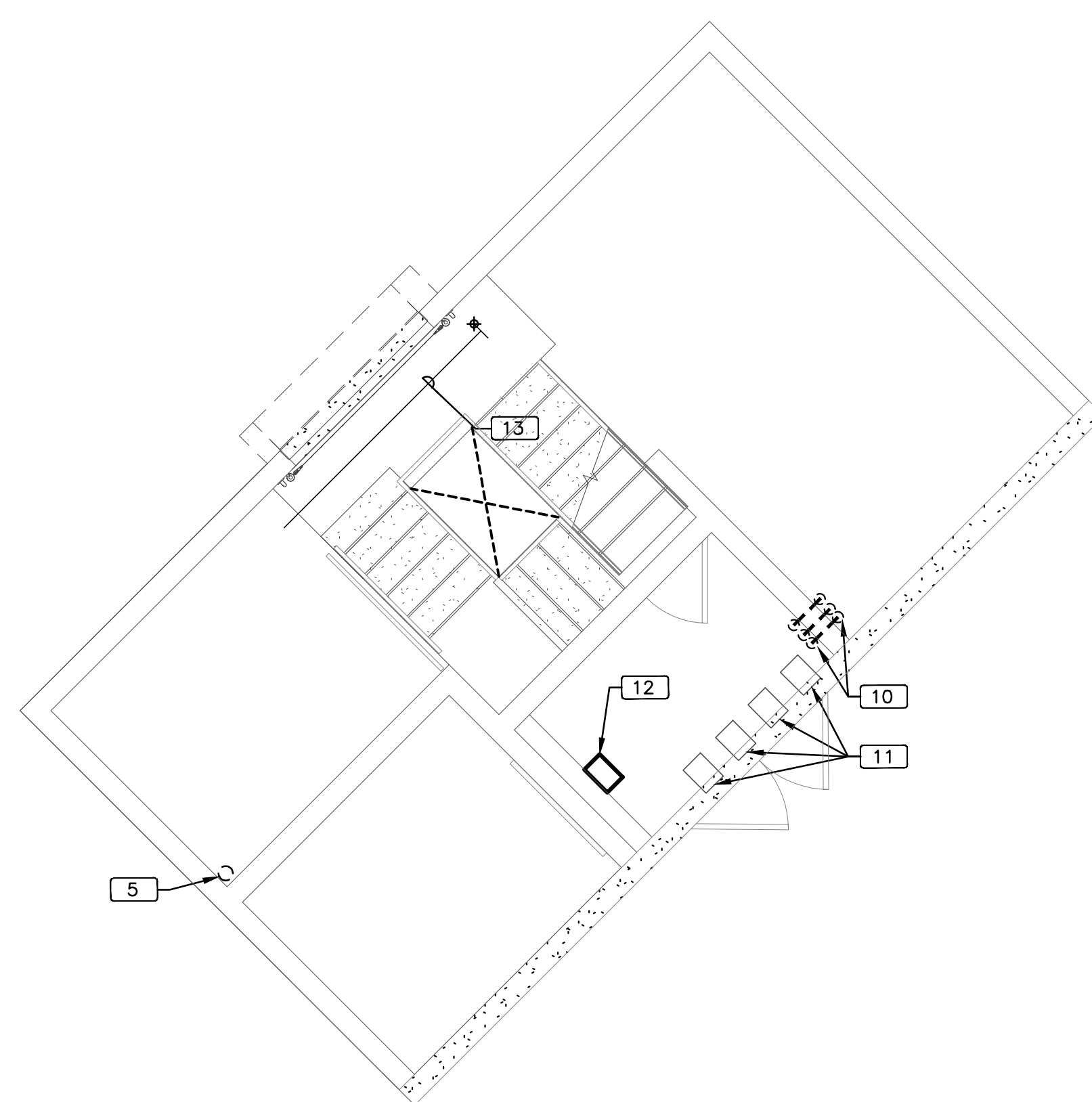
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DL

**ELEVATOR  
MACHINE ROOM  
MECHANICAL NEW  
PLANS**

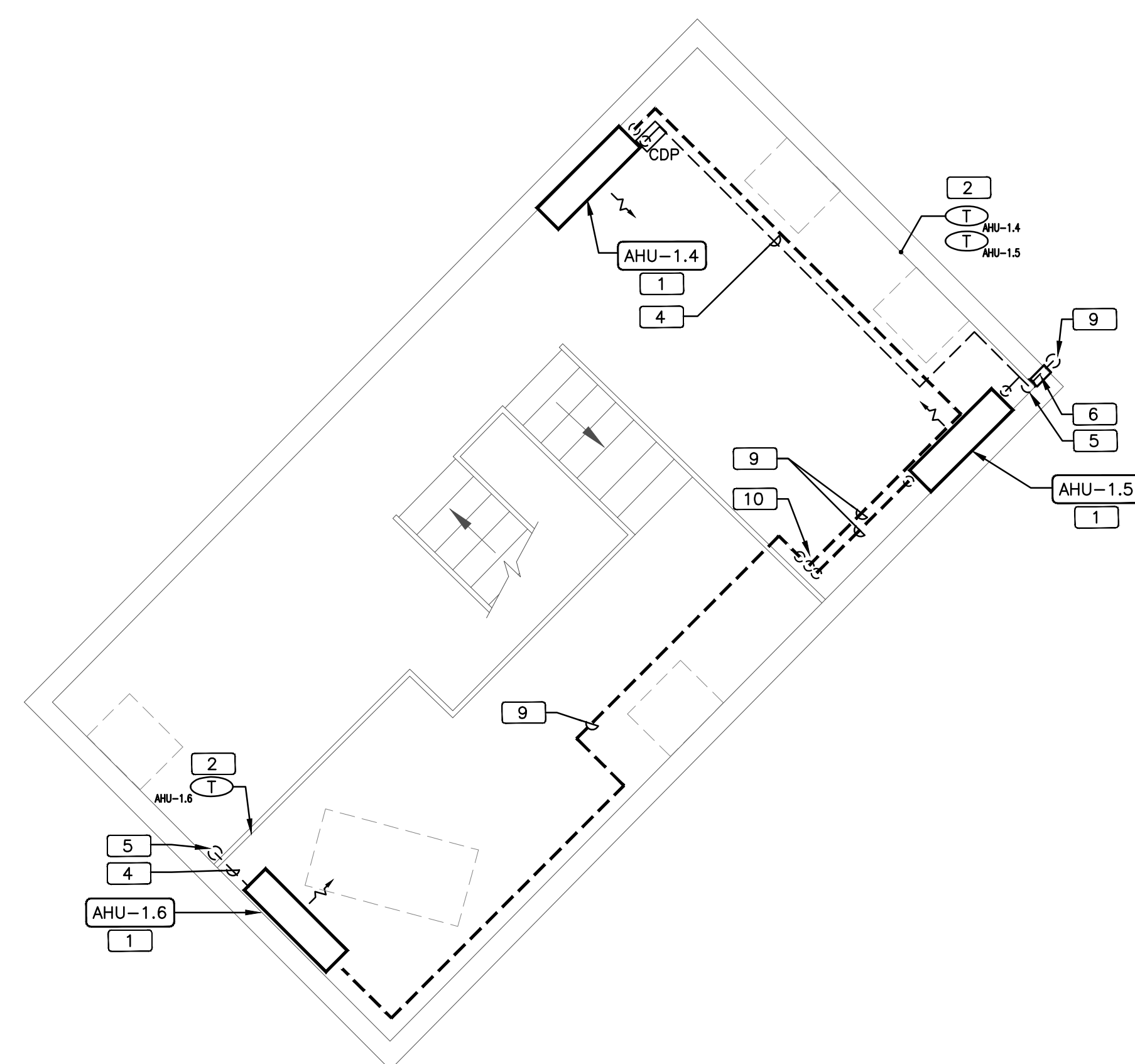
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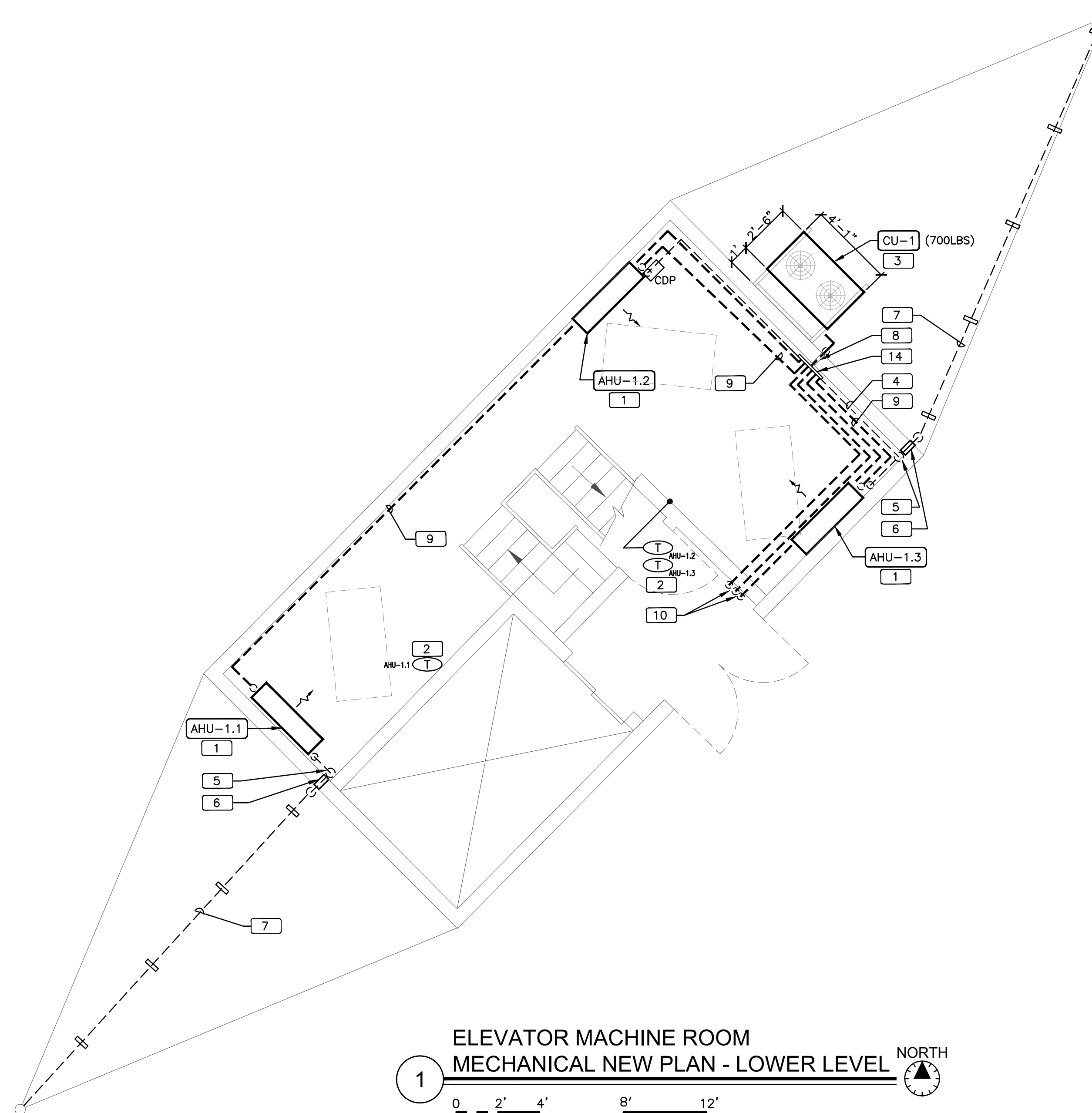
**2**  
ELEVATOR MACHINE ROOM  
MECHANICAL NEW PLAN - MID LEVEL

0 2' 4' 8' 12'  
1/4" = 1'-0"



**3**  
ELEVATOR MACHINE ROOM  
MECHANICAL NEW PLAN - UPPER LEVEL

0 2' 4' 8' 12'  
1/4" = 1'-0"



**1**  
ELEVATOR MACHINE ROOM  
MECHANICAL NEW PLAN - LOWER LEVEL

0 2' 4' 8' 12'  
1/4" = 1'-0"

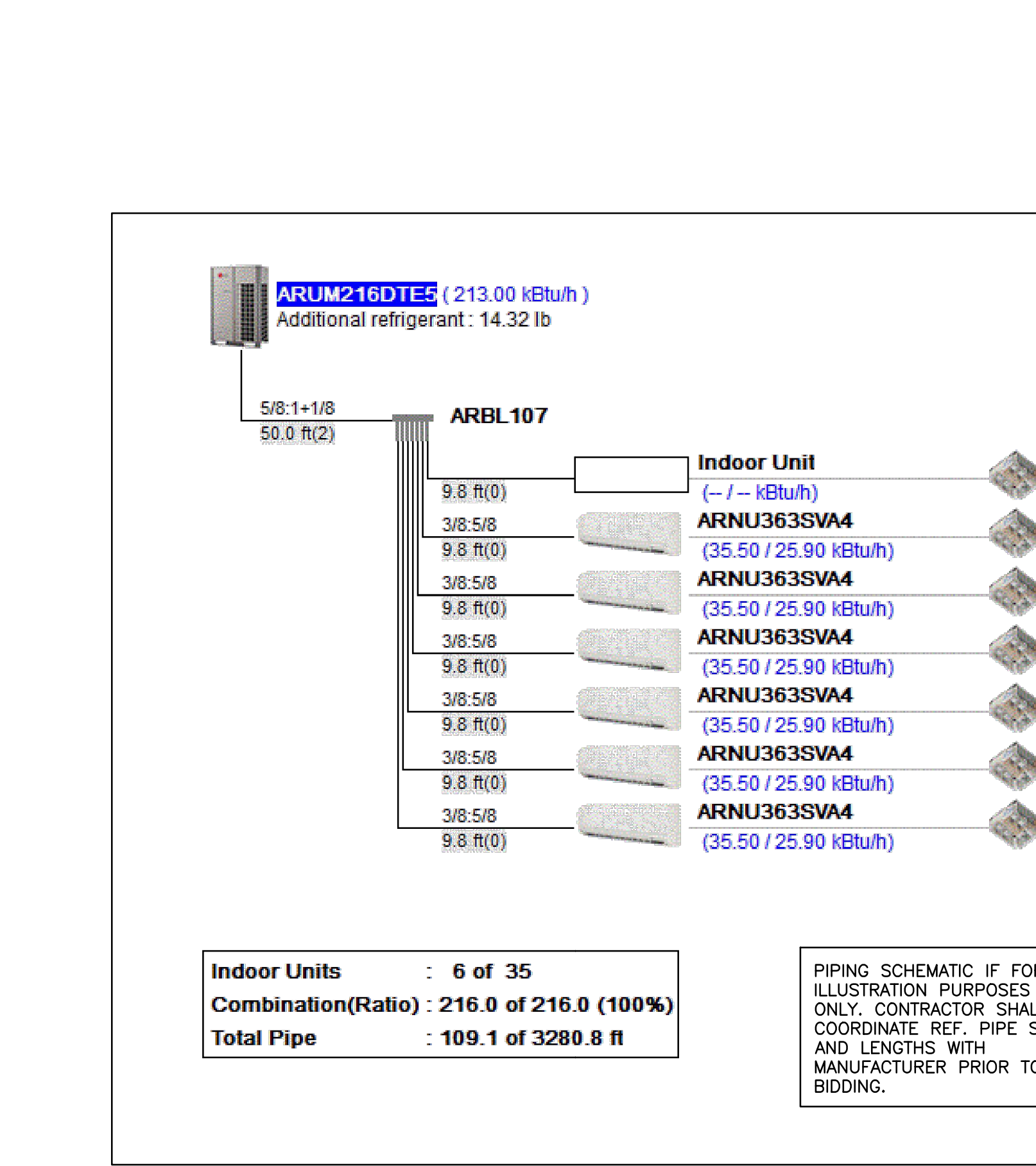
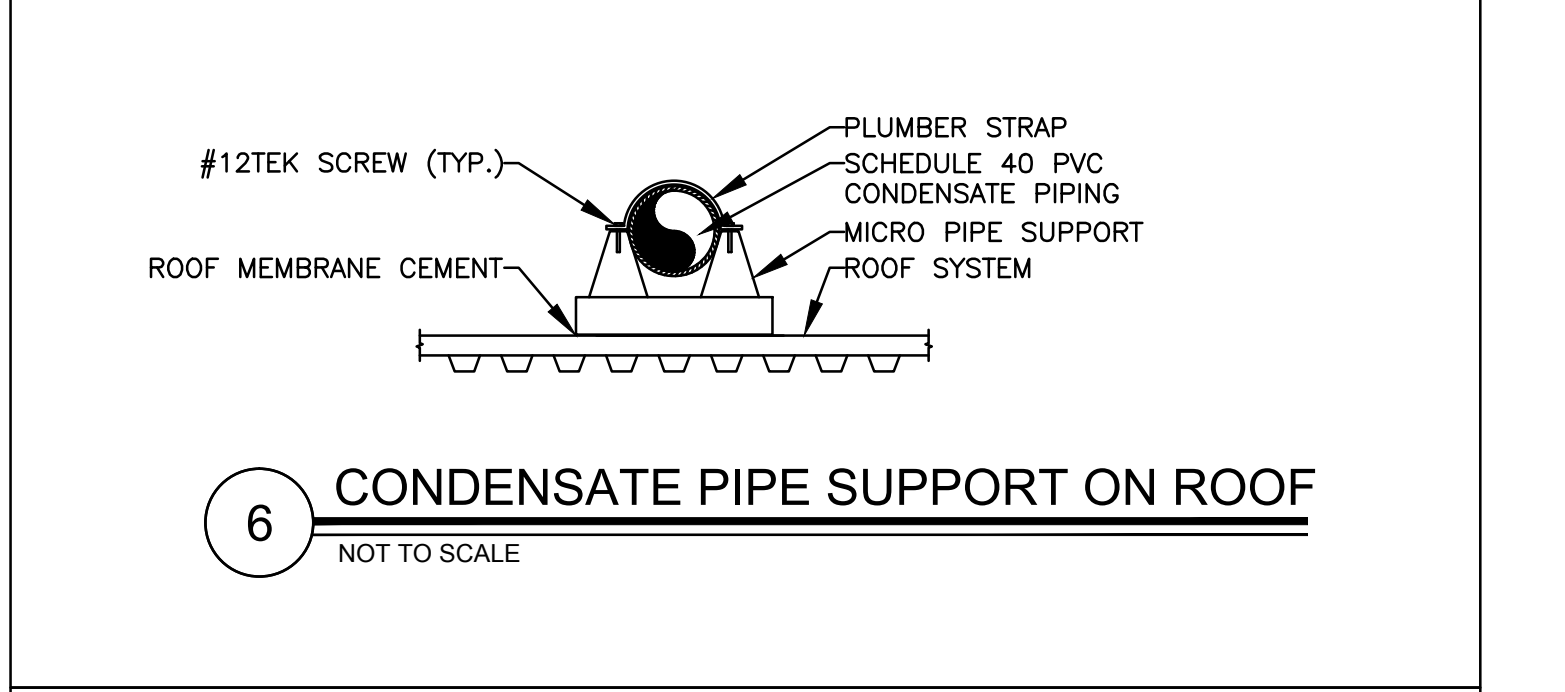
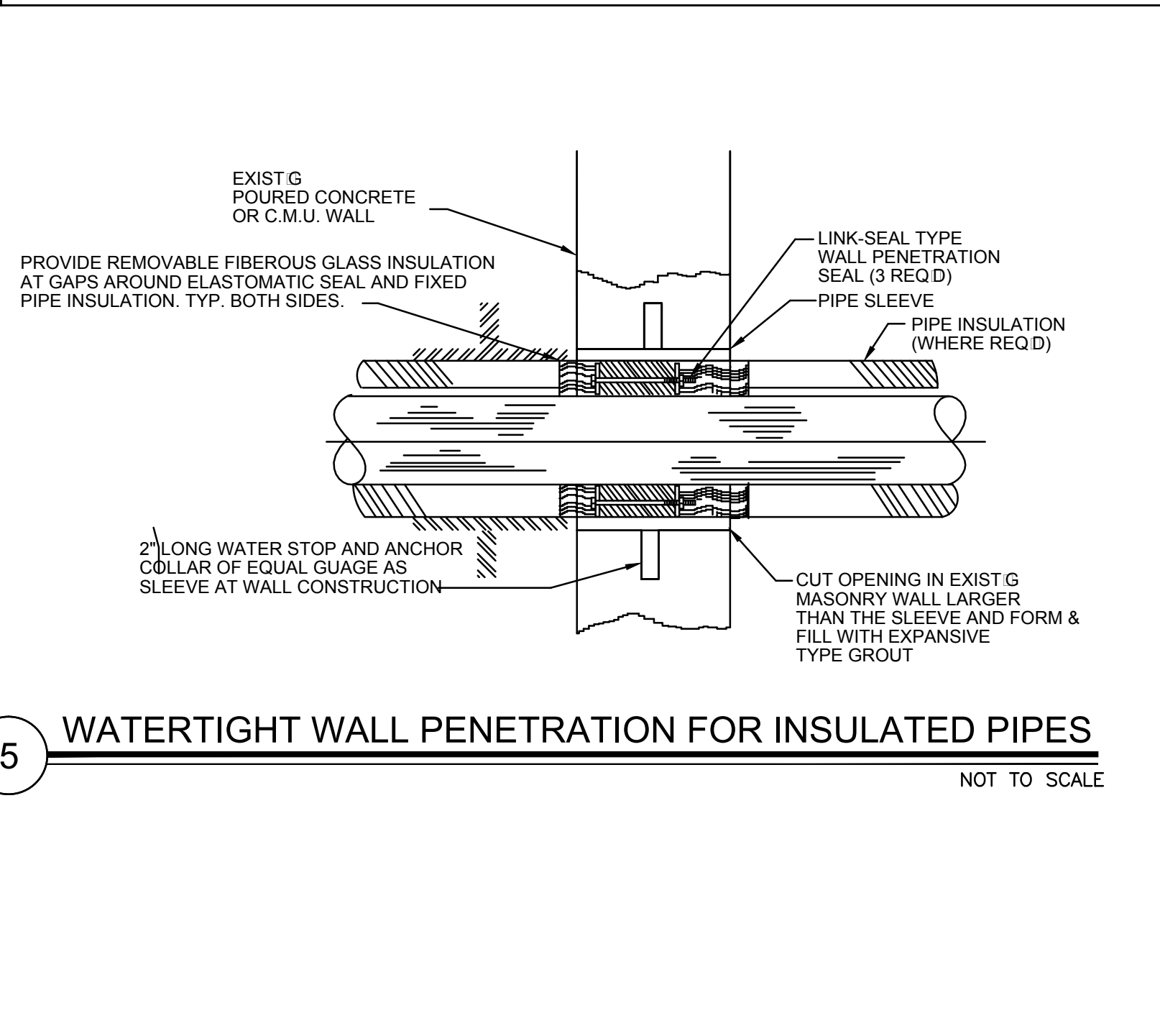
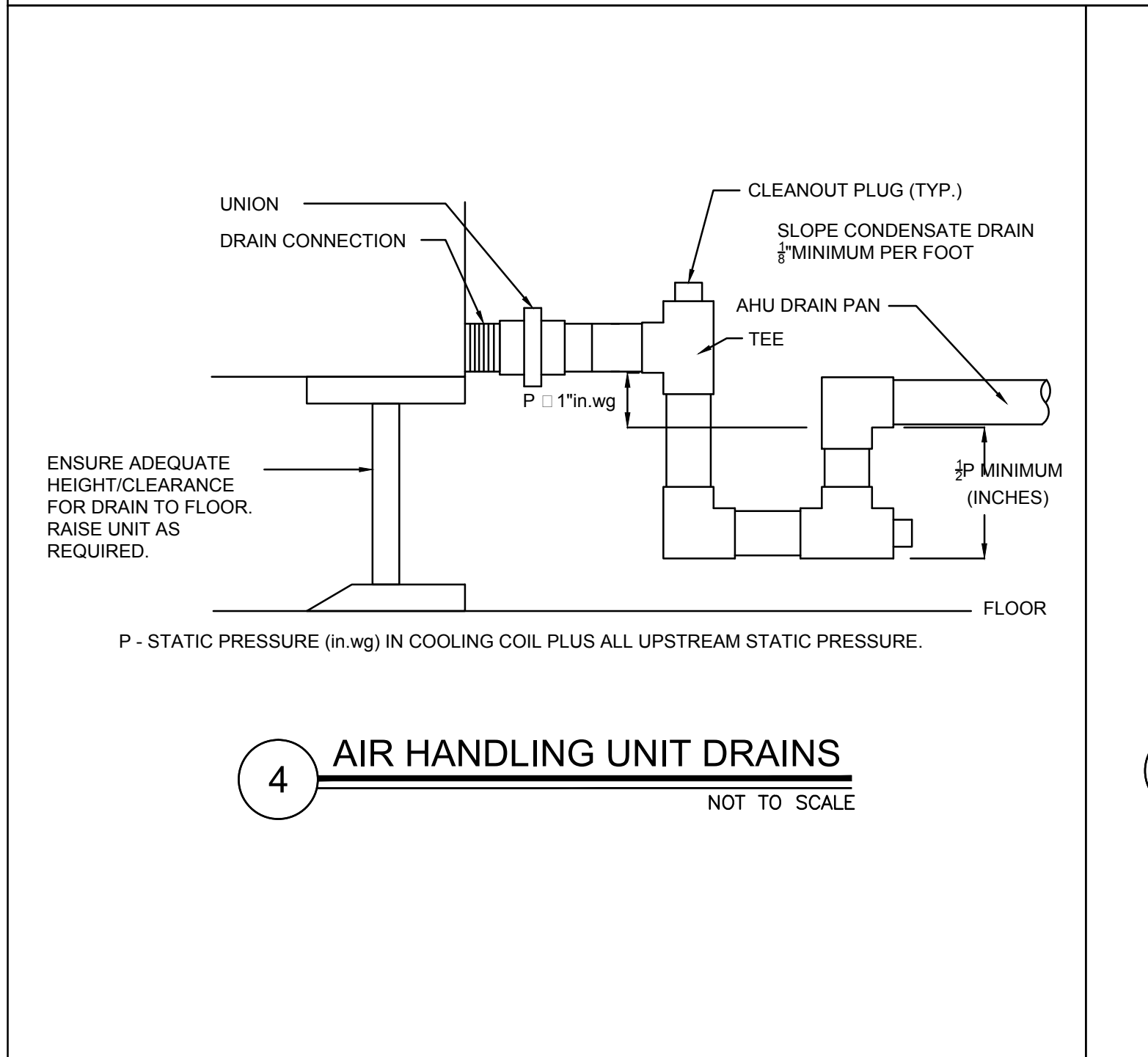
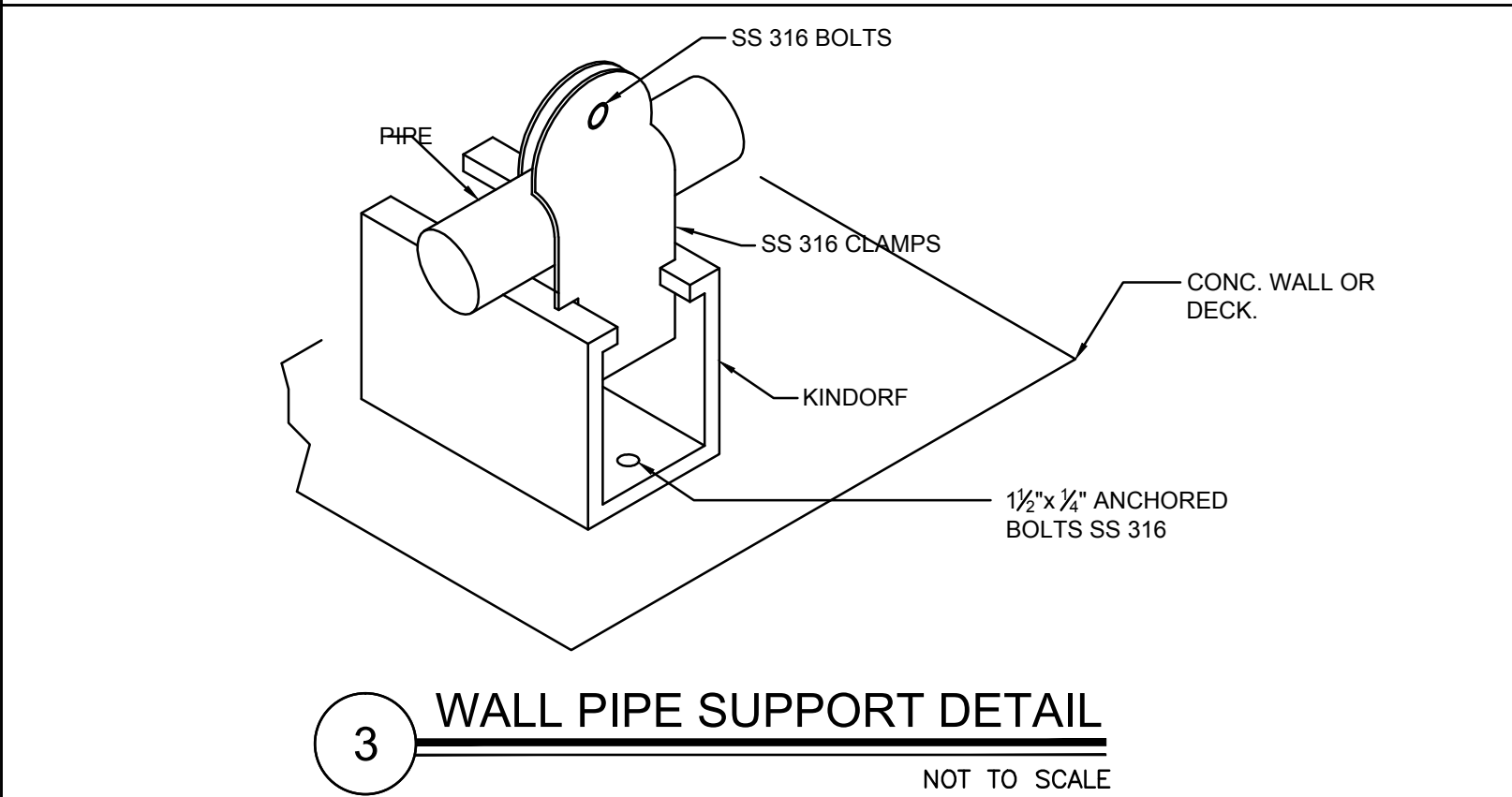
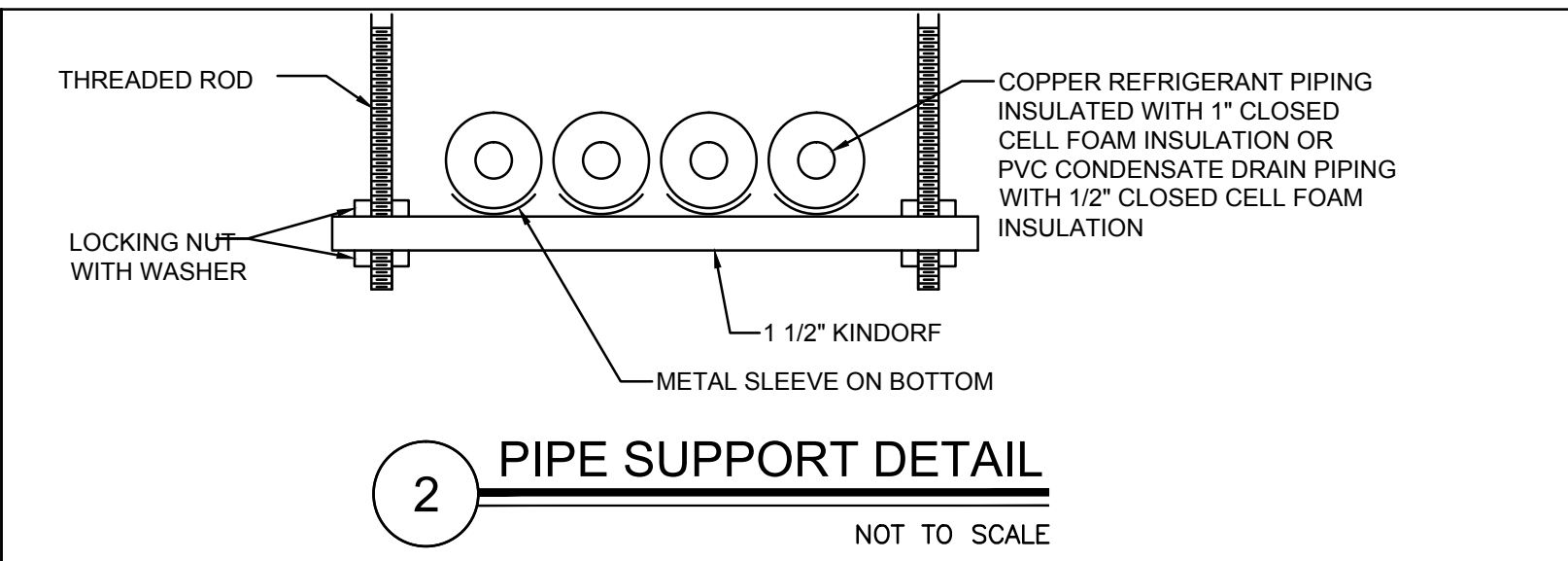
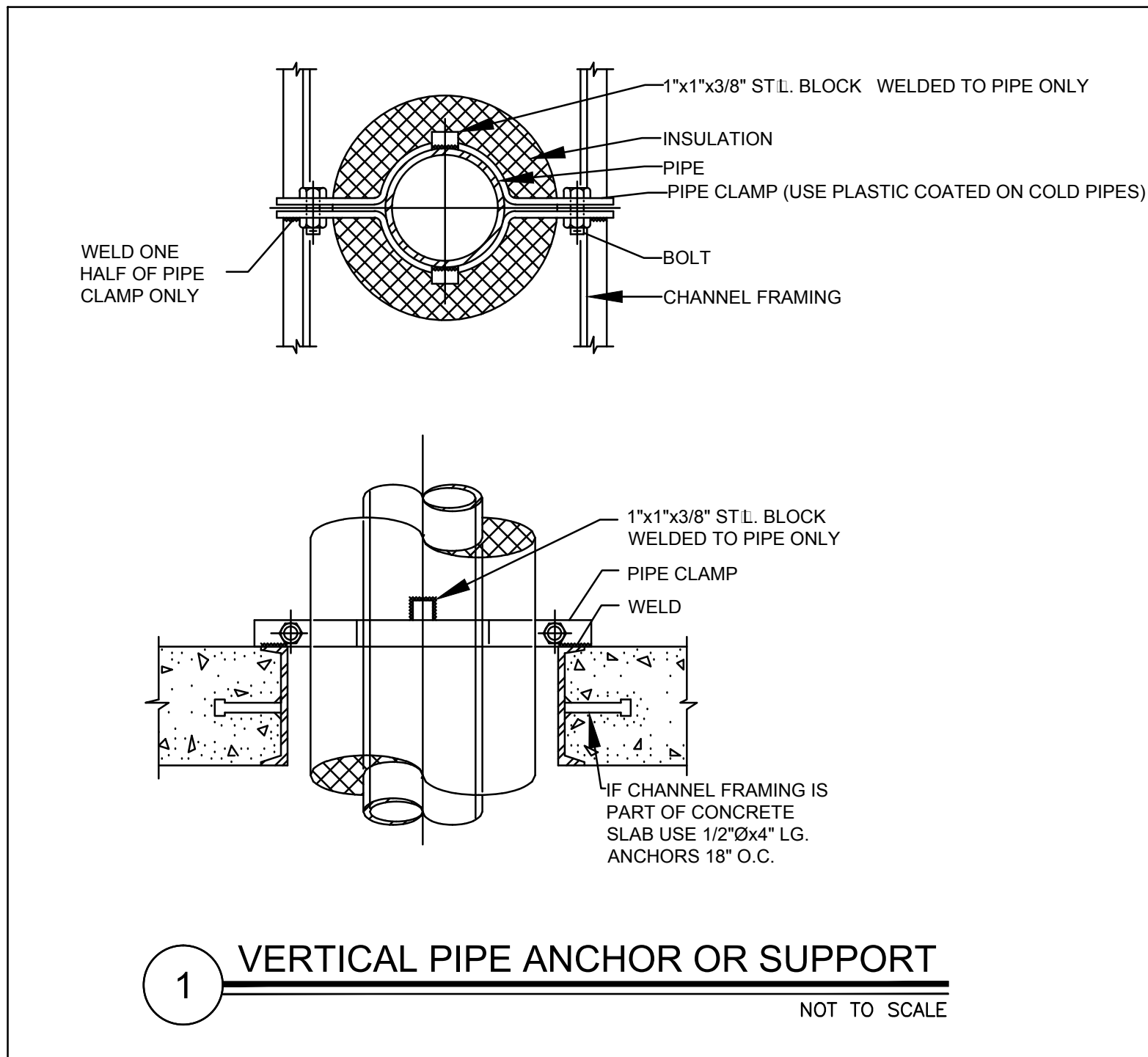
**GENERAL NOTES:**

- REFER TO MANUFACTURER'S RECOMMENDATIONS FOR ALL REFRIGERANT PIPE SIZES ACCORDING TO FINAL LENGTH OF RUN.
- PROVIDE INSULATED BACKING ON ALL T-STATS MOUNTED ON EXTERIOR WALLS.
- ALL RENOVATION CONTROL WORK AND CONNECTION TO THE EXISTING BAS SYSTEM SHALL BE PERFORMED BY JCI.
- CONTRACTOR SHALL AVOID ROUTING ANY PIPING ABOVE ELECTRICAL EQUIPMENT.

**PLAN NOTES:**

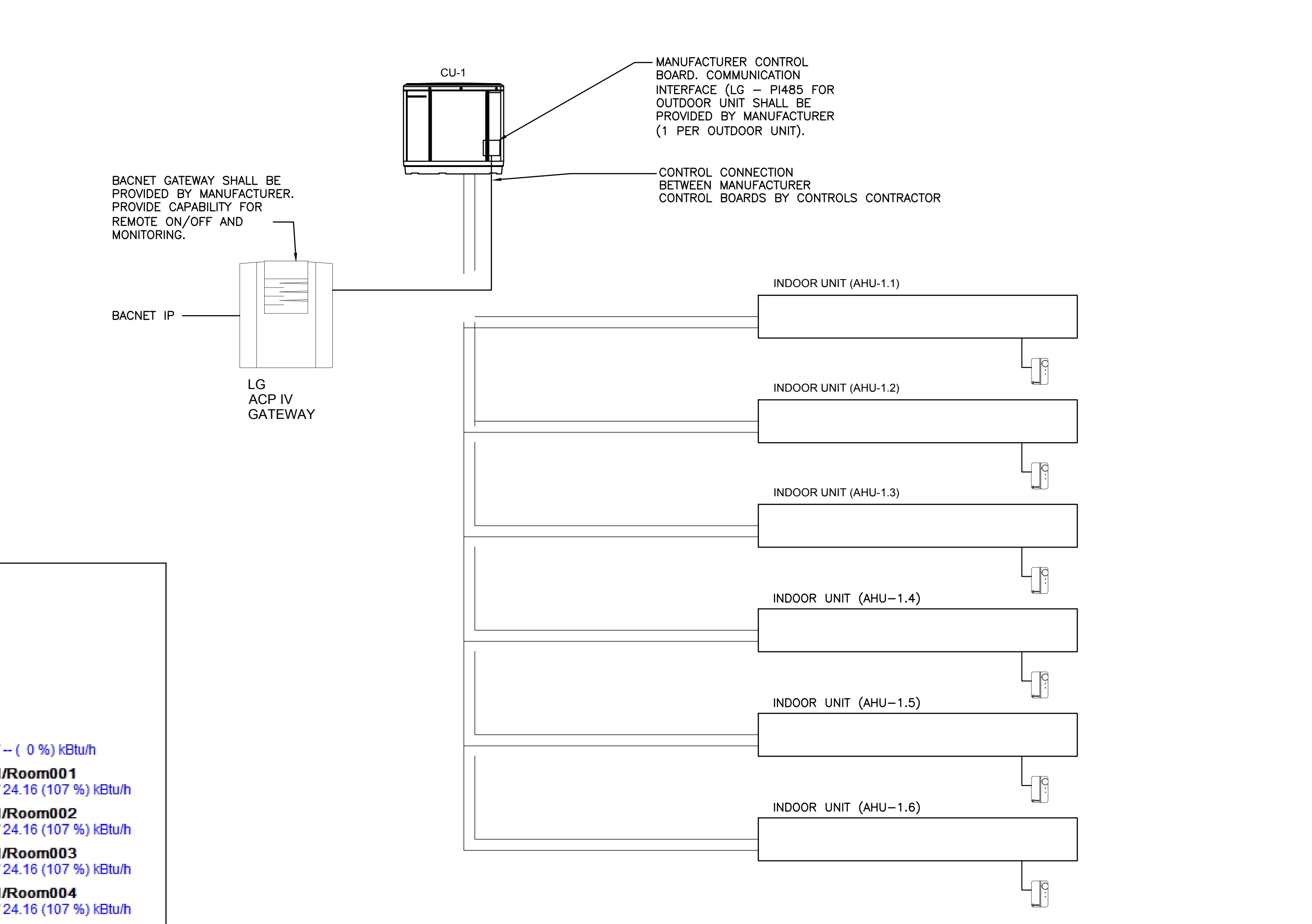
- MOUNT AHU A MINIMUM OF 7'-6" A.F.F.
- PROVIDE TEMPERATURE/HUMIDITY SENSOR IN LOCATION SHOWN.
- INSTALL CONDENSING UNIT AT MINIMUM 2'-0" ABOVE FINISHED ROOF. PROVIDE MANUFACTURER'S RECOMMENDED CLEARANCES FOR MAINTENANCE AND AIR FLOW. SEE STRUCTURAL SHEETS FOR CONDENSING UNIT SUPPORT AND TIE-DOWN DETAILS.
- PROVIDE 1" INSULATED CONDENSATE PIPING. SLOPE PIPING AT 1/8" PER FOOT. PROVIDE CLEANOUTS AT EVERY CHANGE IN DIRECTION.
- ROUTE 1-1/4" INSULATED CONDENSATE PIPING DOWN.
- ROUTE 1-1/4" INSULATED CONDENSATE PIPING THROUGH EXTERIOR WALL. CONTRACTOR TO CORE DRILL AS REQUIRED AND SEAL PENETRATION WATER TIGHT.
- ROUTE 1-1/4" INSULATED CONDENSATE PIPING TO WITHIN 1" OF NEAREST ROOF DRAIN, SLOPING AT 1/8" PER FOOT. PROVIDE CLEANOUTS AT EVERY CHANGE IN DIRECTION AND PIPE SUPPORTS ON ROOF.
- ROUTE REFRIGERANT PIPE THROUGH EXTERIOR WALL. CONTRACTOR TO CORE DRILL WALL AS REQUIRED AND SEAL PENETRATION WATER TIGHT. REFER TO DETAILS FOR MORE INFORMATION.
- ROUTE REFRIGERANT PIPE TO AHU.
- ROUTE REFRIGERANT PIPE UP TO AHU-1.4 THRU 1.6. PROVIDE NEW FLOOR/WALL PENETRATION OR RE-USE EXISTING EXISTING FLOOR/WALL PENETRATIONS. CAP AND SEAL PENETRATION WATER TIGHT.
- EXISTING VFD CONTROLLERS, RELAYS AND ACCESSORIES FOR AHU-8 THRU AHU-11 TO REMAIN. CONTRACTOR SHALL PROTECT EXISTING EQUIPMENT THROUGHOUT ALL PHASES OF CONSTRUCTION.
- NEW VRF CONTROLS SYSTEM. SYSTEM SHALL INTERFACE WITH EXISTING JOHNSON CONTROLS (BAS) BY JCI. BAS SHALL PROVIDE SET-POINT ADJUSTMENTS AND MONITOR ALARMS FROM NEW VRF CONTROL SYSTEM.
- ADD ALTERNATE 4: RELOCATE FIRE SPRINKLER PIPE AND HEAD TIGHT TO DECK AS REQUIRED TO AVOID CLEARANCE FOR EXISTING ROLL-UP DOOR. FIELD VERIFY EXISTING PIPE SIZE AND PROVIDE ALL THE NECESSARY COMPONENTS TO A COMPLETE SYSTEM AT NO ADDITIONAL COST TO OWNER. CONTRACTOR SHALL SHUT OFF RISER, DRAIN PIPE AND PROVIDE/INSTALL A NEW SHUT-OFF VALVE IN FIRE SPRINKLER RISER AT THE BASE OF THE STACK IN THE ELEVATOR MACHINE ROOM. ALL FIRE SPRINKLER LINE RELOCATION SHALL BE COORDINATED WITH ORANGE COUNTY FACILITIES.
- PROVIDE 7-PORT HEADER





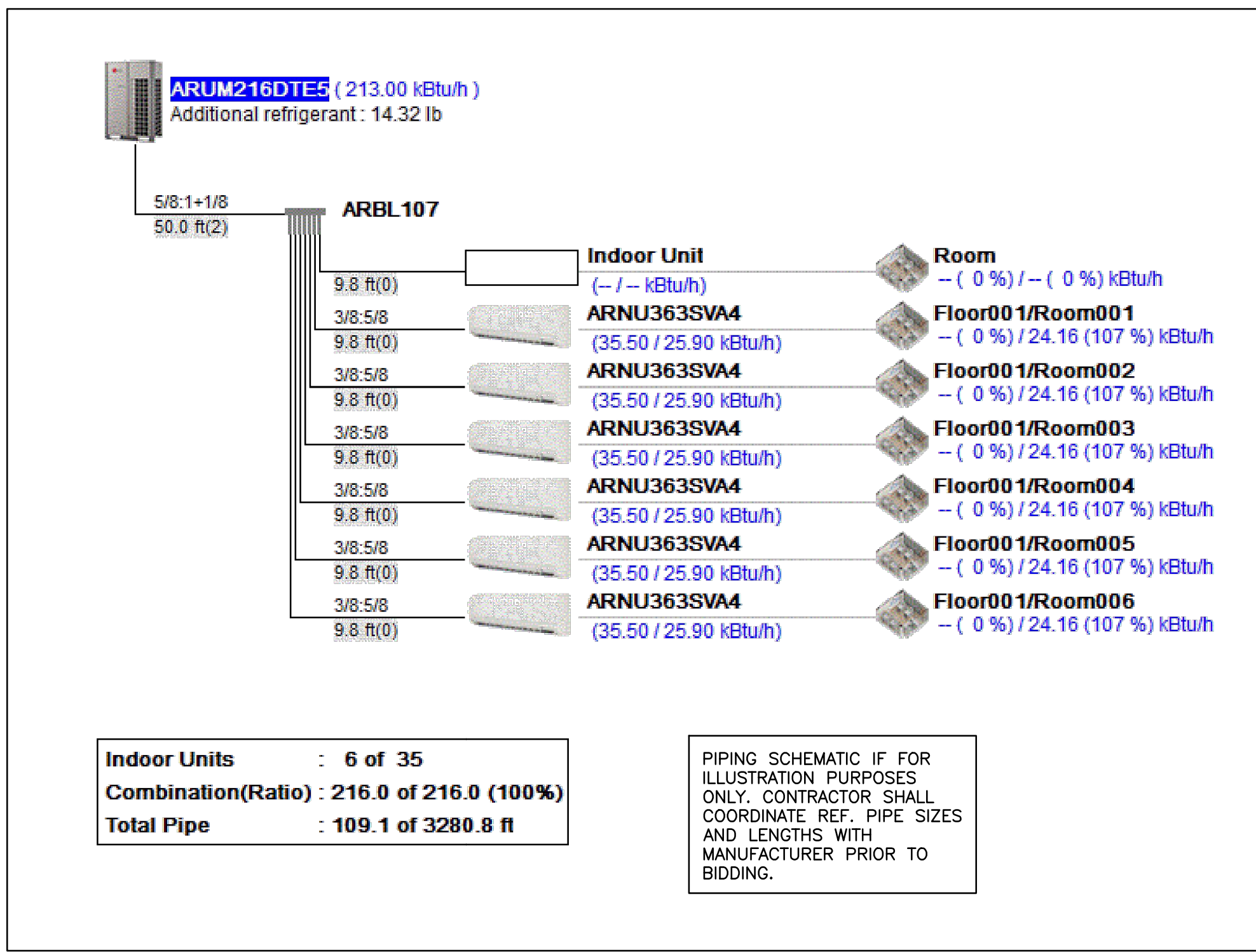
DX SPLIT SYSTEM SCHEDULE						
NOMINAL SYSTEM CAPACITY (TONS)	3	3	3	3	3	3
MIN EFFICIENCY (EER)	11.2	11.2	11.2	11.2	11.2	11.2
UNIT TAG	AHU-1.1	AHU-1.2	AHU-1.3	AHU-1.4	AHU-1.5	AHU-1.6
FILTER TYPE AND THICKNESS	1\"/>					

- Unit Notes
- See plan and coordinate location of access doors and verify all clearances are met prior to ordering equipment - Submission or submittals or shop drawings constitutes this item has been performed by manufacturer.
  - Provide condenser coil guards
  - Provide low ambient controls down to 5F
  - Provide inverter compressor
  - Provide (2) extra set of washable filters - replace (1) set at Certificate of Occupancy
  - Provide temperature/humidity controller (LG: PREMTBVC1)
  - Provide BACnet gateway for all units.

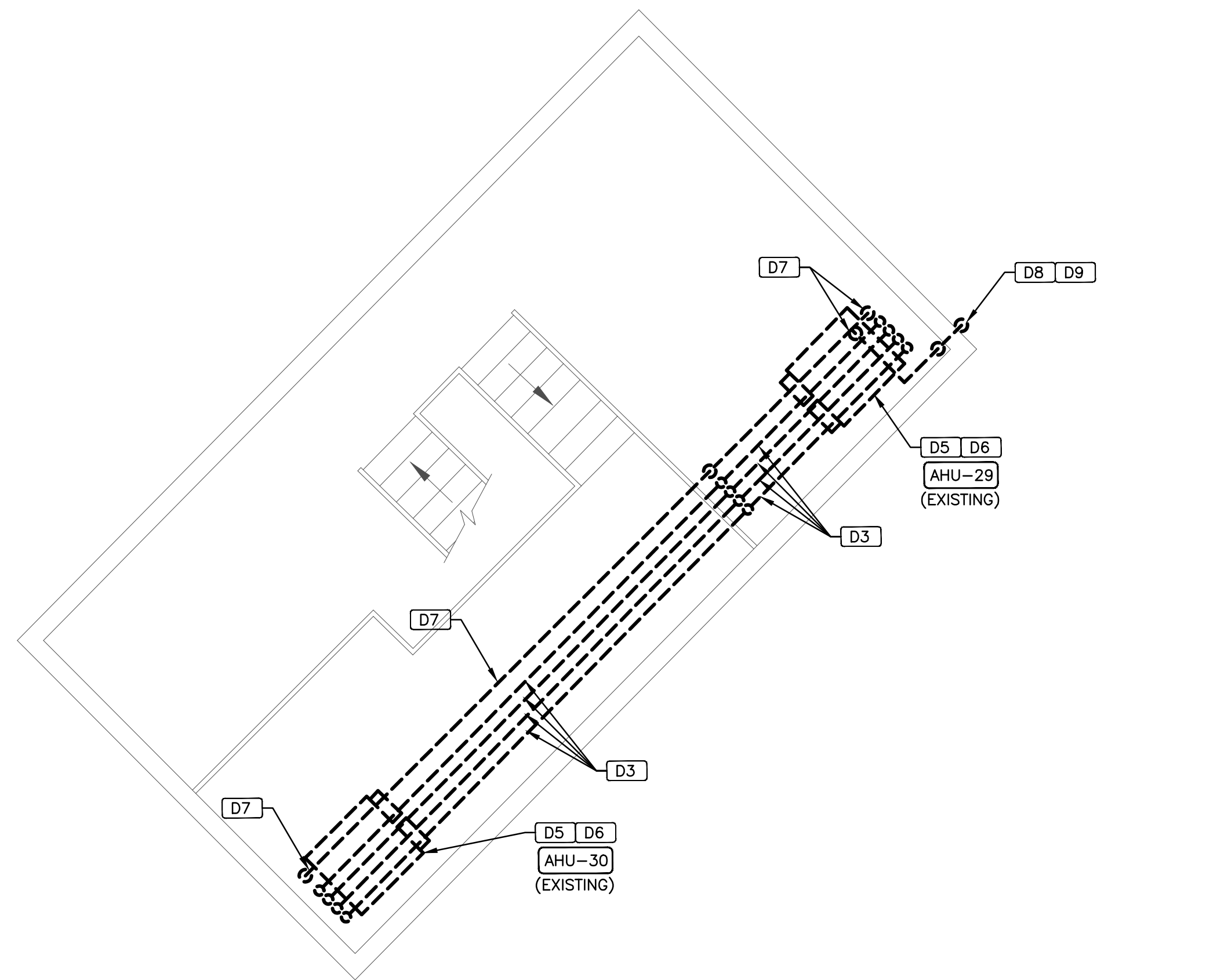


**SEQUENCE OF OPERATION FOR DX-SPLIT SYSTEMS**

THE CONTROLS FOR DX-SPLIT SYSTEMS WILL EACH FUNCTION AS FOLLOWS:  
 THESE DX UNITS WILL CIRCULATE AND CONDITION AIR TO CONDITIONED SPACES  
 THESE SYSTEMS SHALL PROVIDE START, STOP AND STATUS CAPABILITIES BY THE BUILDING AUTOMATION SYSTEM.  
 CONTROLS CONTRACTOR SHALL COORDINATE INTEGRATION POINTS AVAILABLE BY THE MANUFACTURER WITH THE ENGINEER AND OWNER PRIOR TO START OF WORK.



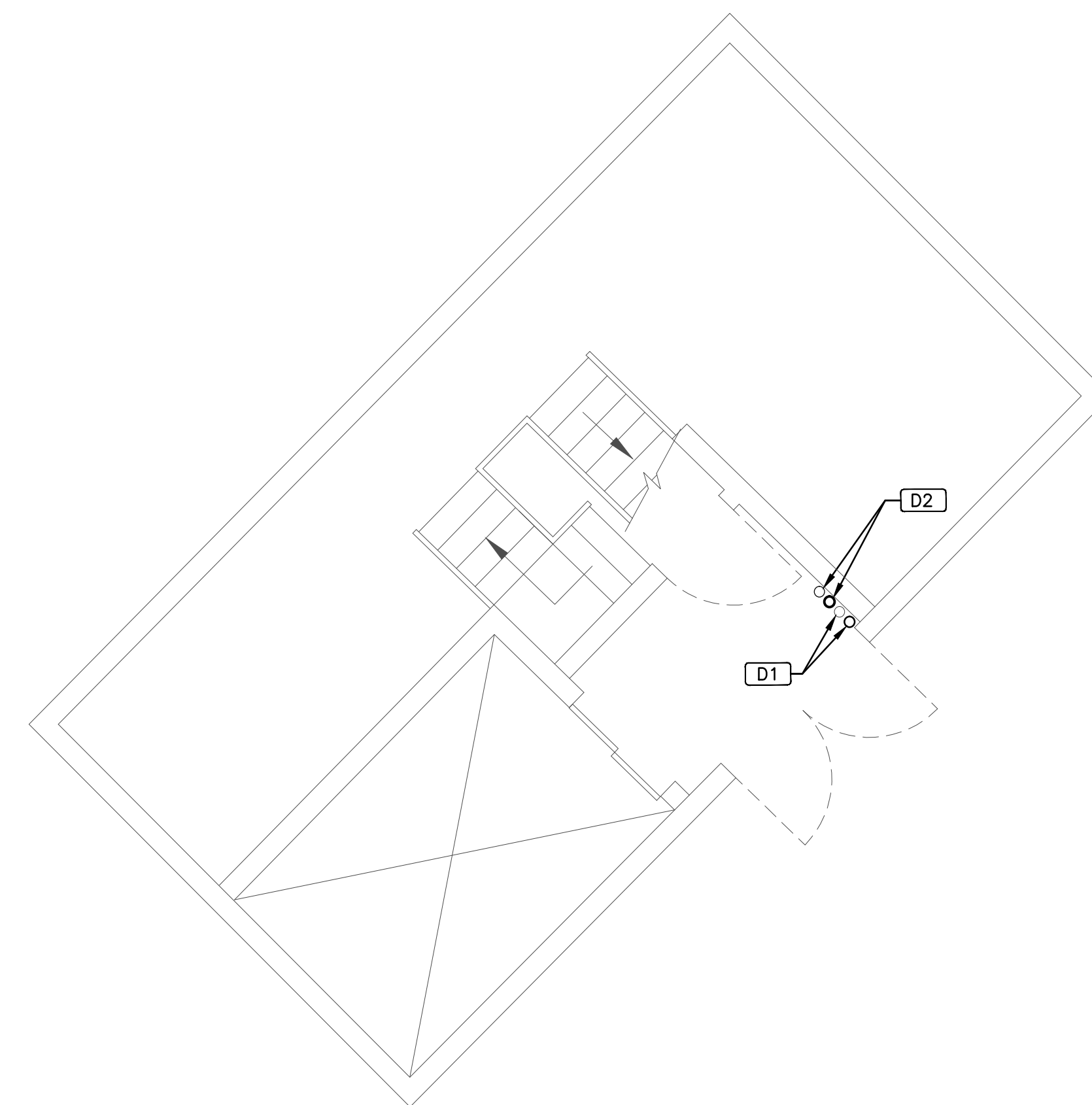




3  
ELEVATOR MACHINE ROOM  
MECHANICAL DEMO PLAN - UPPER LEVEL

0 2' 4' 8' 12'  
1/4" = 1'-0"

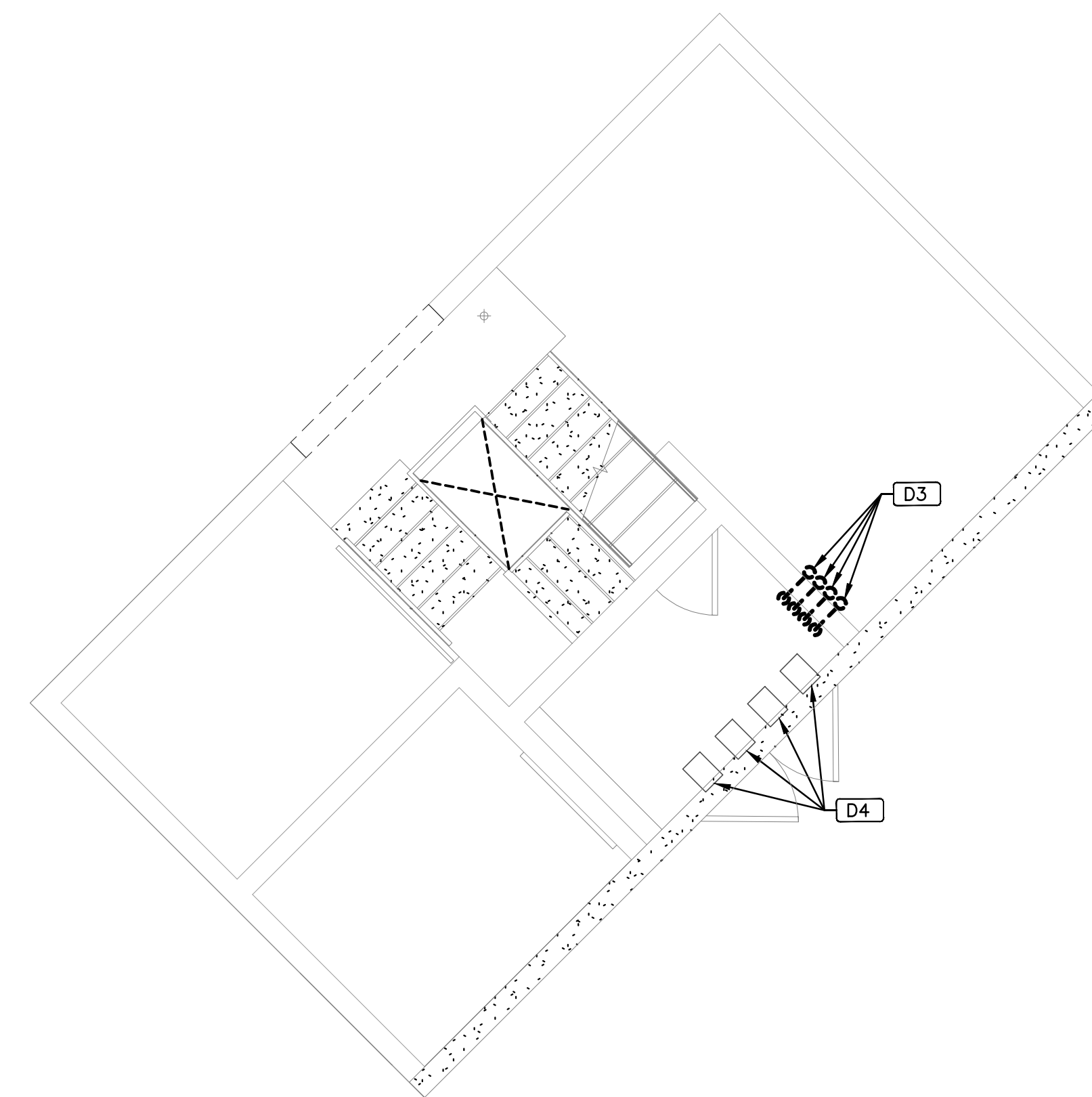
NORTH



1  
ELEVATOR MACHINE ROOM  
MECHANICAL DEMO PLAN - LOWER LEVEL

0 2' 4' 8' 12'  
1/4" = 1'-0"

NORTH



2  
ELEVATOR MACHINE ROOM  
MECHANICAL DEMO PLAN - MID LEVEL

0 2' 4' 8' 12'  
1/4" = 1'-0"

NORTH

**GENERAL NOTES:**

1. ALL UNUSED SLAB PENETRATIONS SHALL BE PROPERLY PATCHED AND SEALED TO MATCH EXISTING BLDG ENVELOPE.
2. ALL UNUSED ROOF AND EXTERIOR PENETRATIONS SHALL BE PROPERLY CAPPED AND SEALED WATER TIGHT.
3. ALL EXISTING MECHANICAL EQUIPMENT, DUCTWORK, PIPING AND ACCESSORIES ARE SCHEDULED TO REMAIN UNLESS NOTED OTHERWISE. EXISTING WORK MAY NOT BE SHOWN FOR CLARITY.
4. OWNER SHALL HAVE FIRST RIGHT OF REFUSAL FOR ALL MECHANICAL EQUIPMENT. IF OWNER REFUSES SALVAGE, CONTRACTOR SHALL DISPOSE AT NO ADDITIONAL COST TO THE OWNER.
5. THE FACILITY SHALL REMAIN FULLY OCCUPIED AND OPERATIONAL FOR THE DURATION OF THE PROJECT.
6. ALL DEMOLITION CONTROL WORK FOR THE EXISTING BAS SYSTEM SHALL BE PERFORMED BY JCI.

**PLAN NOTES:**

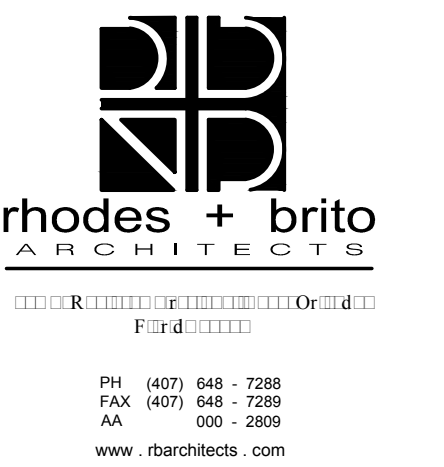
- D#
- D1 REMOVE AND DISCARD EXISTING CHILLED WATER PIPING UP THROUGH FLOOR AND EXISTING SHUT OFF VALVES TO REMAIN. REMOVE ALL PIPING ABOVE SHUT-OFF VALVES. CAP, SEAL, AND INSULATE REMAINING END OF VALVES. PROVIDE PERMANENT PIPE IDENTIFICATION LABELS ON PIPING TO REMAIN.
  - D2 REMOVE AND DISCARD EXISTING HEATING HOT WATER PIPING UP THROUGH FLOOR AND EXISTING SHUT OFF VALVES TO REMAIN. REMOVE ALL PIPING ABOVE SHUT-OFF VALVES. CAP, SEAL, AND INSULATE REMAINING END OF VALVES. PROVIDE PERMANENT PIPE IDENTIFICATION LABELS ON PIPING TO REMAIN.
  - D3 REMOVE AND DISCARD ALL EXISTING CHILLED WATER AND HEATING HOT WATER PIPING IN AREA. REMOVE ALL PIPE HANGERS, SUPPORTS, AND ASSOCIATED HARDWARE. ALL EXISTING ENVELOPE PENETRATIONS NOT BEING RE-USED SHALL BE PATCHED, SEALED, AND REPAIRED TO MATCH EXISTING CONDITIONS.
  - D4 EXISTING VFD CONTROLLERS, RELAYS AND ACCESSORIES FOR AHU-8 THRU AHU-11 TO REMAIN.
  - D5 REMOVE EXISTING HORIZONTAL CHILLED WATER AIR HANDLING UNIT. REMOVE ALL STRUCTURAL SUPPORTS, CONDENSATE DRAIN PAN AND ALL REMAINING HARDWARE. DISCONNECT POWER WIRING AND PULL WIRE BACK TO PANEL.
  - D6 EXISTING BUILDING AUTOMATION SYSTEM (BAS) ARE BY JOHNSON CONTROLS (JCI). JCI SHALL BE RESPONSIBLE FOR REMOVAL OF ALL CONTROL DEVICES & WIRING OF AIR HANDLING UNIT, AND RE-PROGRAMMING NEW UNITS INTO EXISTING BAS AFTER DEMOLITION.
  - D7 REMOVE EXISTING CONDENSATE DRAIN PIPING IN AREA AND ALL PIPE HANGERS / SUPPORTS.
  - D8 REMOVE EXISTING CONDENSATE DRAIN PIPING DOWN EXTERIOR WALL AND ALONG ROOF TO POINT OF TERMINATION. REMOVE ALL PIPE HANGERS AND SUPPORTS.
  - D9 EXISTING CONDENSATE PIPING WALL PENETRATION TO REMAIN. REMOVE EXISTING PIPING, PREPARE AREA FOR NEW WORK.



Client



Architect

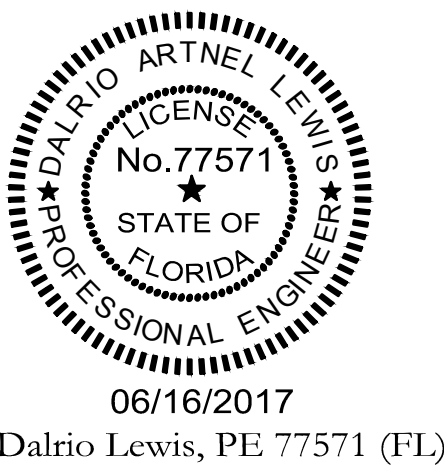


Structural:



EOR Stamp:

Engineer of Record



Project:  
**ORANGE COUNTY  
CORRECTIONS  
HORIZONS ELEVATOR  
MODERNIZATION**

Location:  
3723 VISION BLVD.  
ORLANDO, FL 32839

Issuance:  
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FOR PERMITTING & CONSTRUCTION

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Drawn By: SE  
Checked By: DL

**ELEVATOR  
MACHINE ROOM  
MECHANICAL  
DEMOLITION  
PLANS**

Sheet No.:

**MD101**



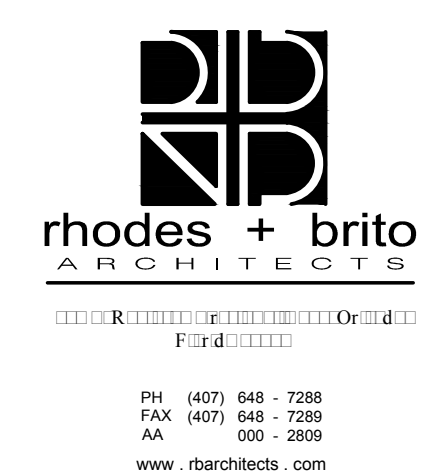




Client



Architect



Structural:



EOR Stamp:

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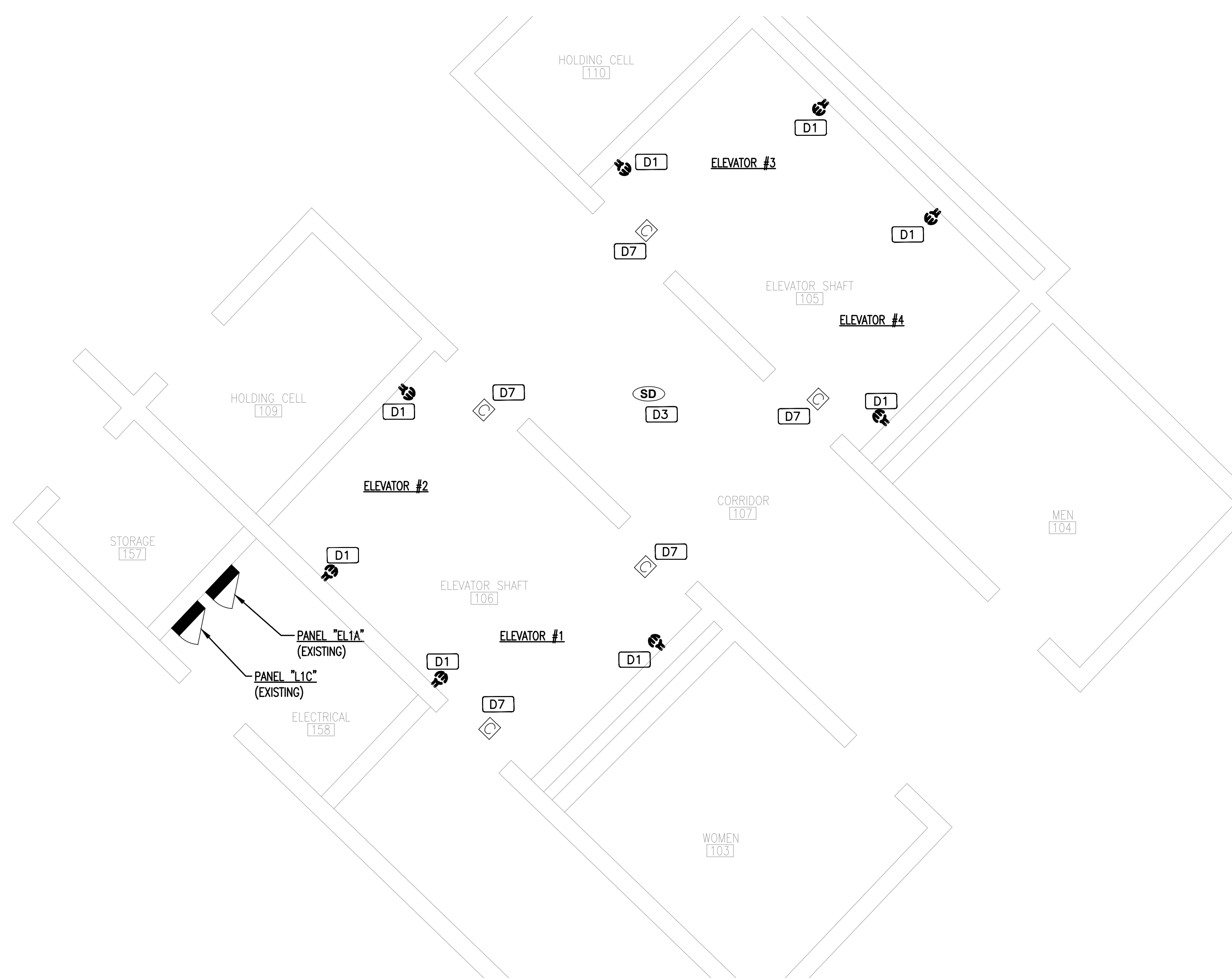
Drawn By: ME  
Checked By: MKS

**ELECTRICAL POWER DEMOLITION FLOOR PLANS**

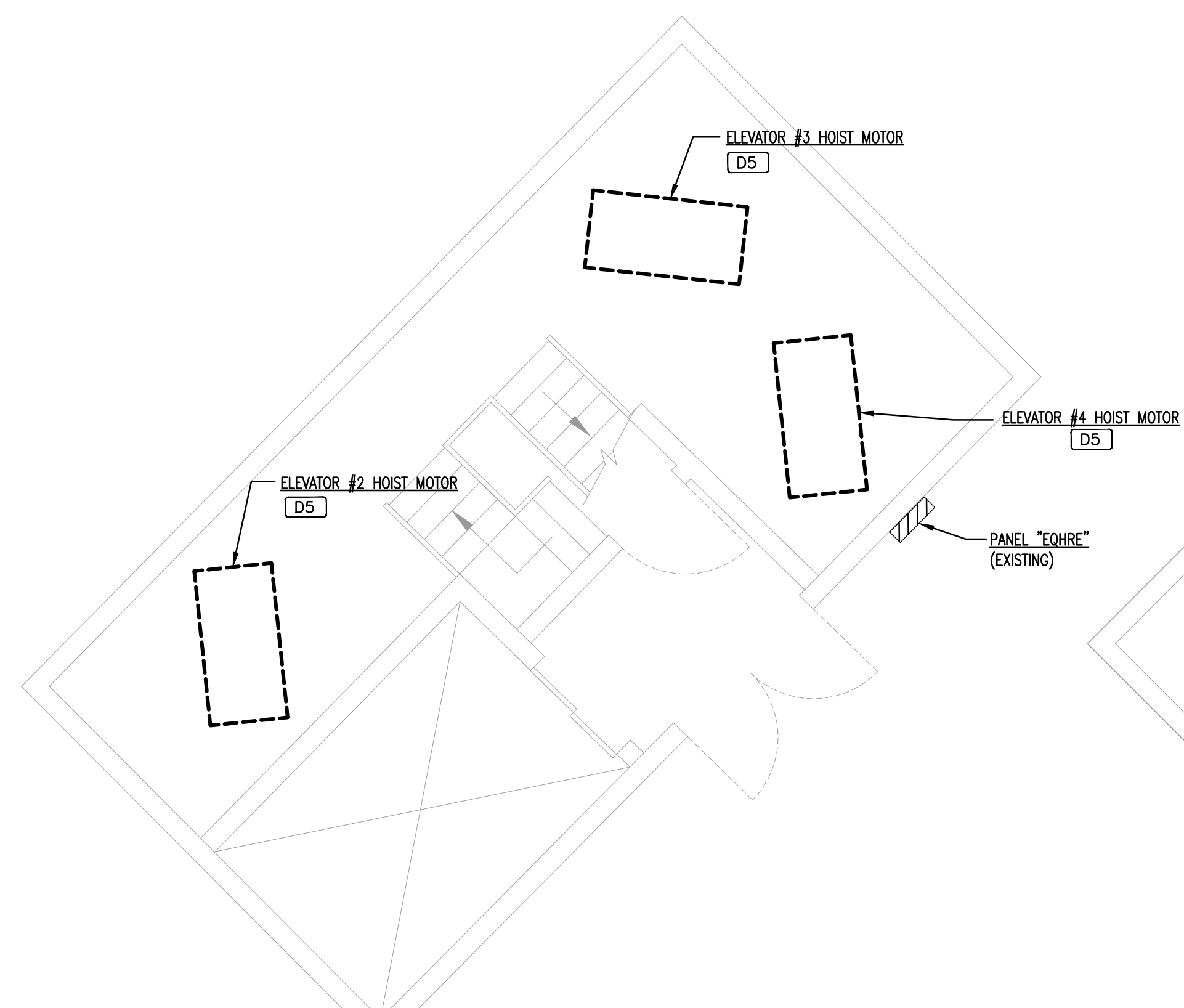
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**ED101**

**POWER DEMOLITION NOTES**

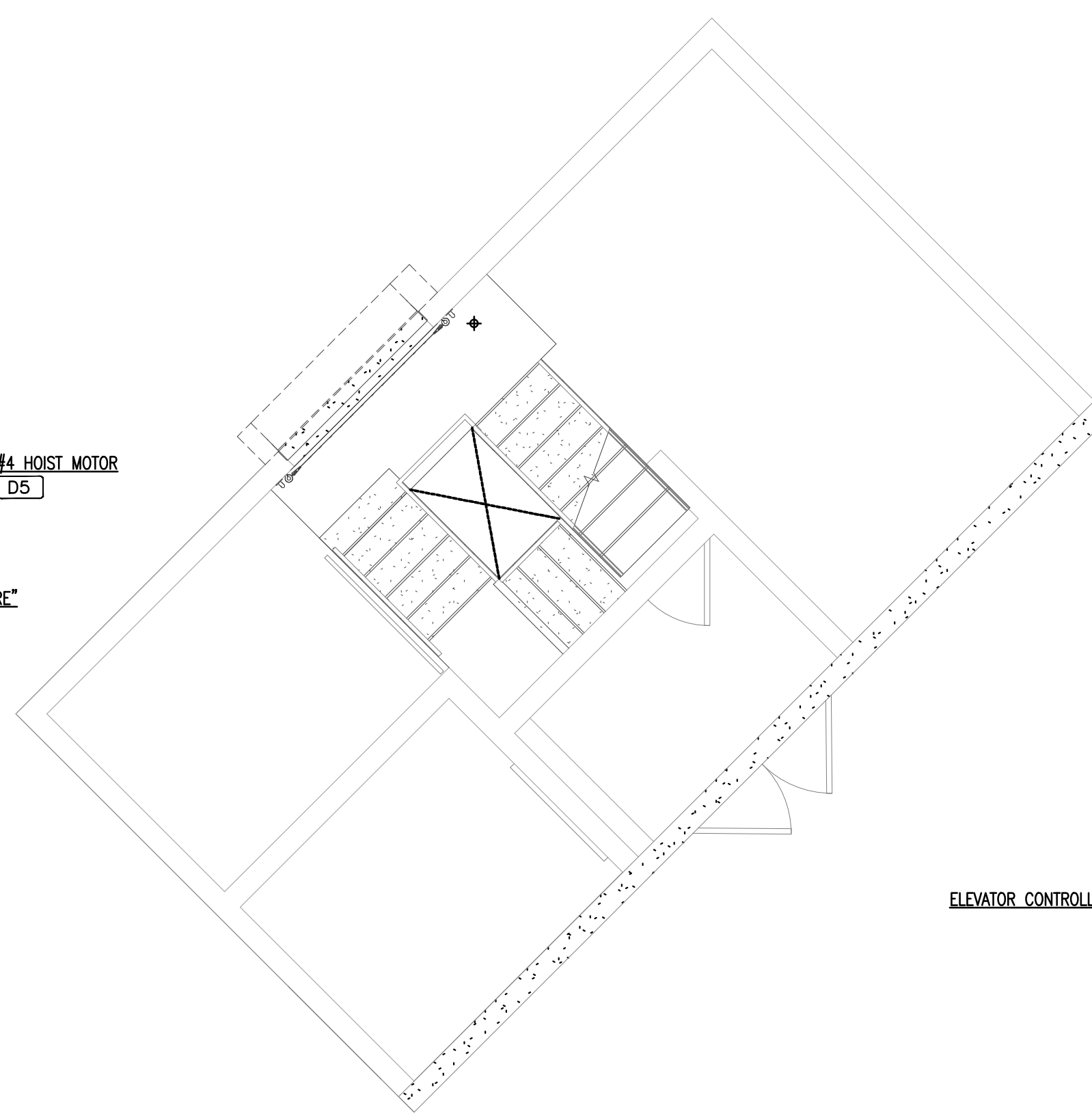
- D1 EXISTING RECEPTACLES TO BE REMOVED. PRESERVE WIRING AND CONDUIT FOR NEW INSTALLATION.
- D2 EXISTING ELEVATOR CONTROL PANEL TO BE REMOVED AND REPLACED ALONG WITH INTERCOM AND PHONE.
- D3 EXISTING EQUIPMENT TO REMAIN "AS-IS". PROTECT THIS EQUIPMENT AND ALL ASSOCIATED WIRING THROUGHOUT CONSTRUCTION.
- D4 EXISTING DISCONNECT SWITCH TO BE REMOVED. PRESERVE WIRING AND CONDUIT FOR NEW INSTALLATION.
- D5 EXISTING ELEVATOR HOIST MOTOR TO BE REMOVED AND REPLACED. REMOVE WIRING AND CONDUIT BACK TO CONTROLLER.
- D6 EXISTING ELEVATOR CONTROLLER TO BE REMOVED AND REPLACED. REMOVE WIRING AND CONDUIT BACK TO DISCONNECT SWITCH.
- D7 EXISTING EQUIPMENT, REMOVE AND PRESERVE ALL CONNECTED COMPONENTS. REINSTALL IN NEW ELEVATOR SYSTEM.
- D8 EXISTING DISCONNECT SWITCH TO BE RELOCATED. MATCH AND EXTEND WIRING AND CONDUIT AS NECESSARY.



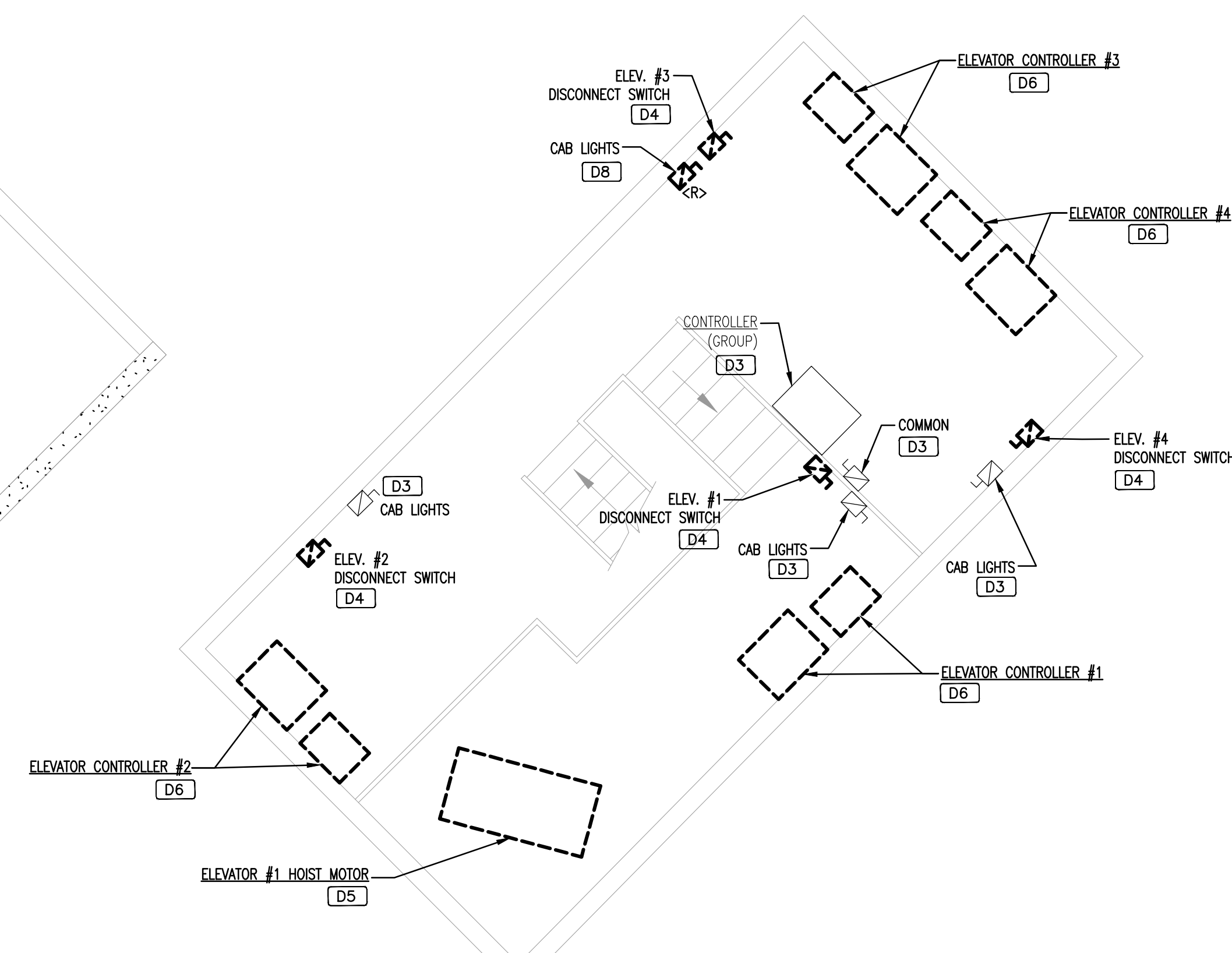
1  
**DEMOLITION - LEVEL 1 FLOOR PLAN - POWER**  
NORTH  
0 2' 4' 8' 12'  
1/4" = 1'-0"



2  
**DEMOLITION - LEVEL 8 ROOF PLAN - POWER**  
NORTH  
0 2' 4' 8' 12'  
1/4" = 1'-0"



3  
**DEMOLITION - LEVEL 8 STAIRWELL LANDING - POWER**  
NORTH  
0 2' 4' 8' 12'  
1/4" = 1'-0"



4  
**DEMOLITION - LEVEL 9 ROOF PLAN - POWER**  
NORTH  
0 2' 4' 8' 12'  
1/4" = 1'-0"



**LIGHTING DEMOLITION GENERAL NOTES**

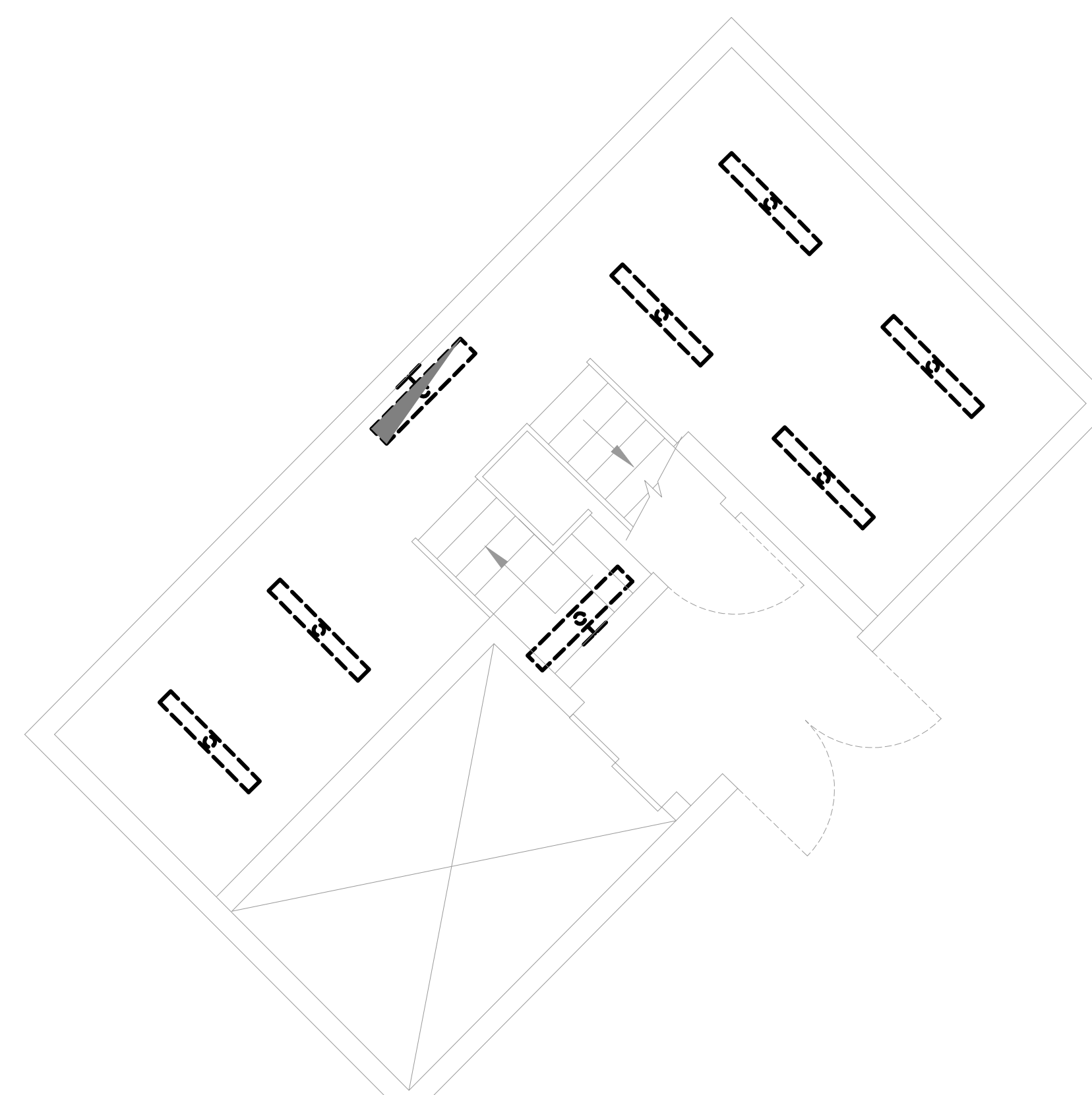
1. LIGHT FIXTURES TO BE REMOVED, PRESERVE WIRING AND CONDUIT FOR NEW INSTALLATION.



1  
DEMOLITION - LEVEL 1  
FLOOR PLAN - LIGHTING

0 2' 4' 8' 12'  
1/4" = 1'-0"

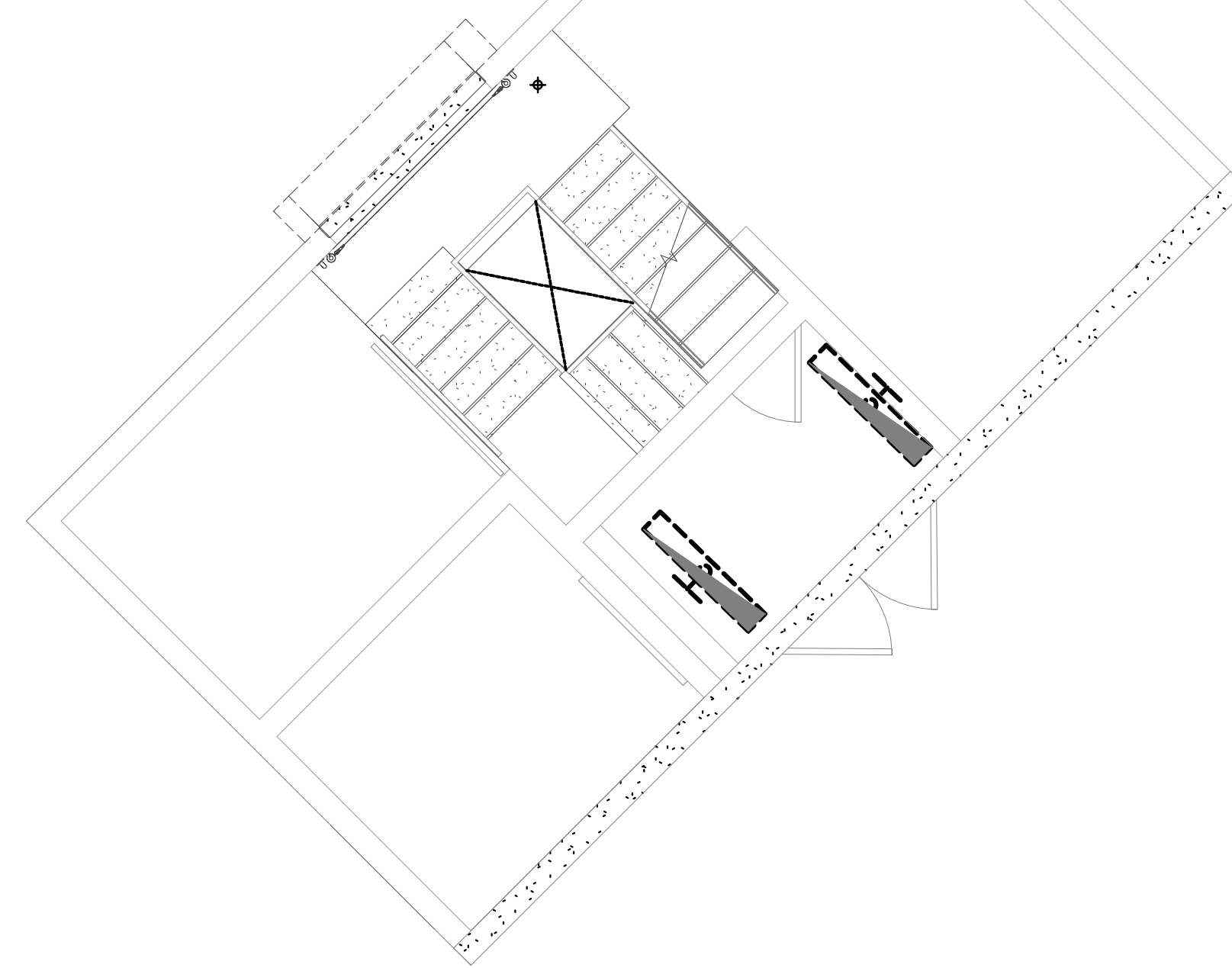
NORTH



2  
DEMOLITION - LEVEL 8  
ROOF PLAN - LIGHTING

0 2' 4' 8' 12'  
1/4" = 1'-0"

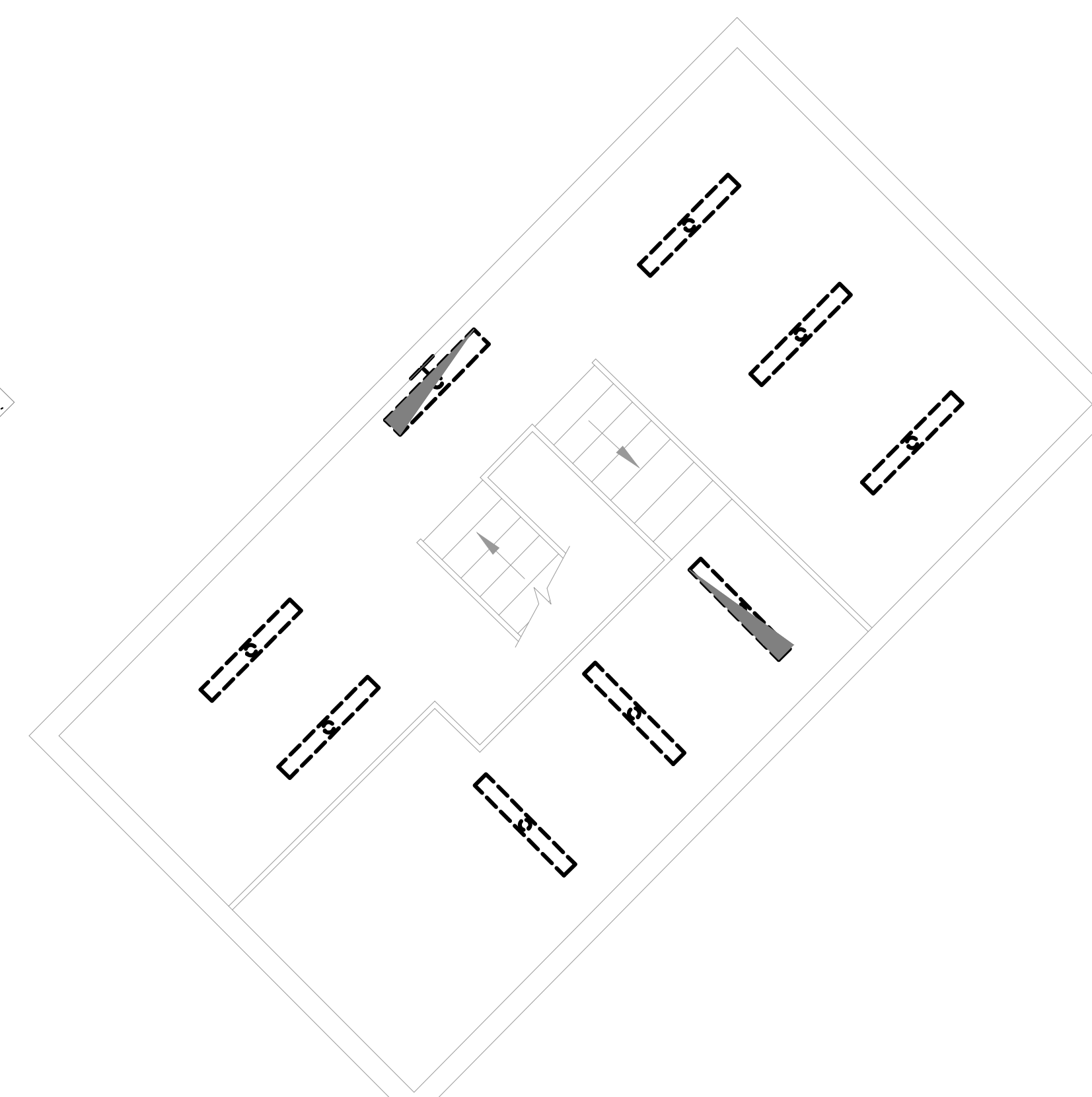
NORTH



3  
DEMOLITION - LEVEL 8  
STAIRWELL LANDING - LIGHTING

0 2' 4' 8' 12'  
1/4" = 1'-0"

NORTH



4  
DEMOLITION - LEVEL 9  
ROOF PLAN - LIGHTING

0 2' 4' 8' 12'  
1/4" = 1'-0"

NORTH



Client



Architect



Structural:



EOR Stamp:



Project:

**ORANGE COUNTY  
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ME

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MKS

**ELECTRICAL  
LIGHTING  
DEMOLITION  
FLOOR PLANS**

Sheet No.:

**ED102**

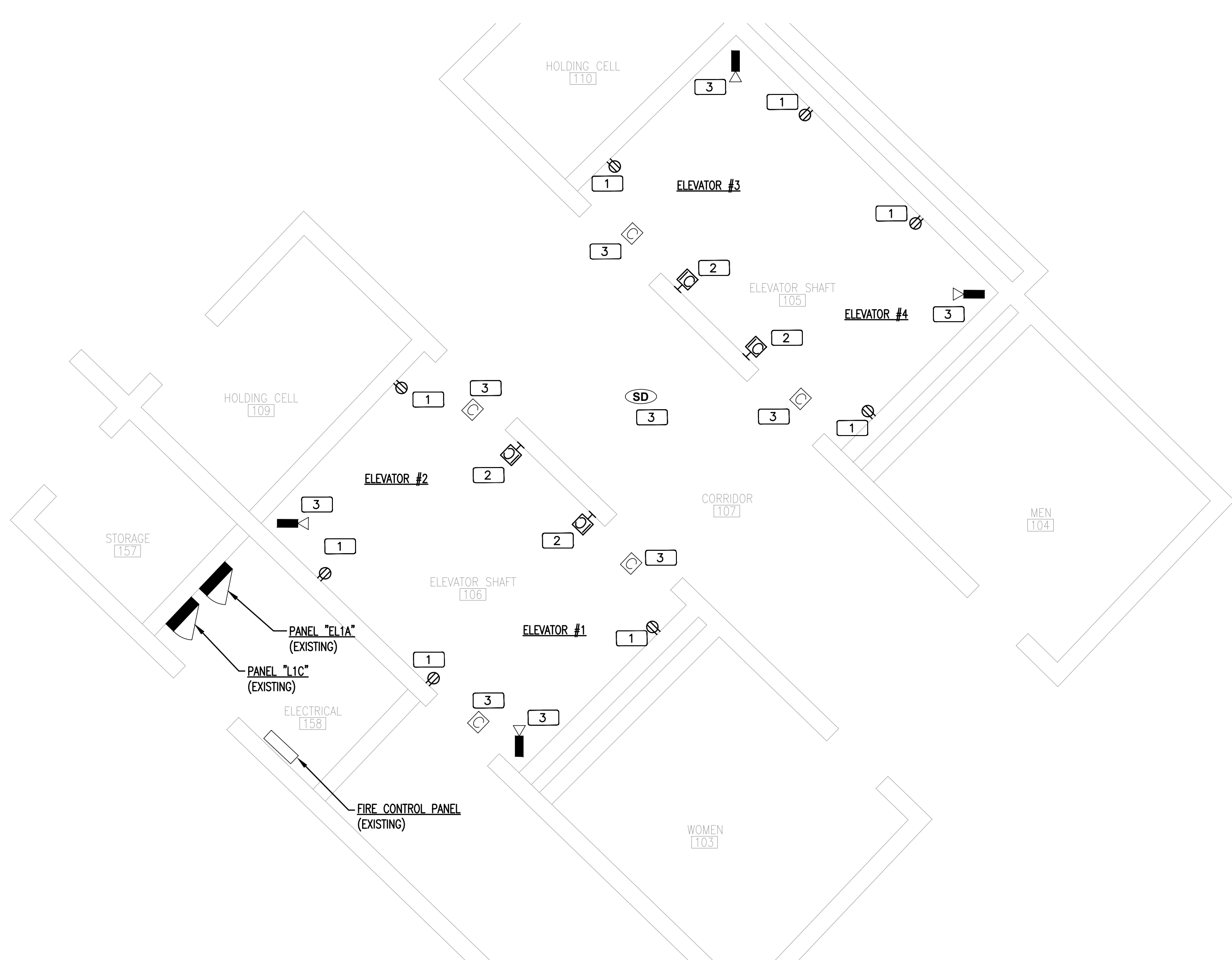


**POWER RENOVATION GENERAL NOTES**

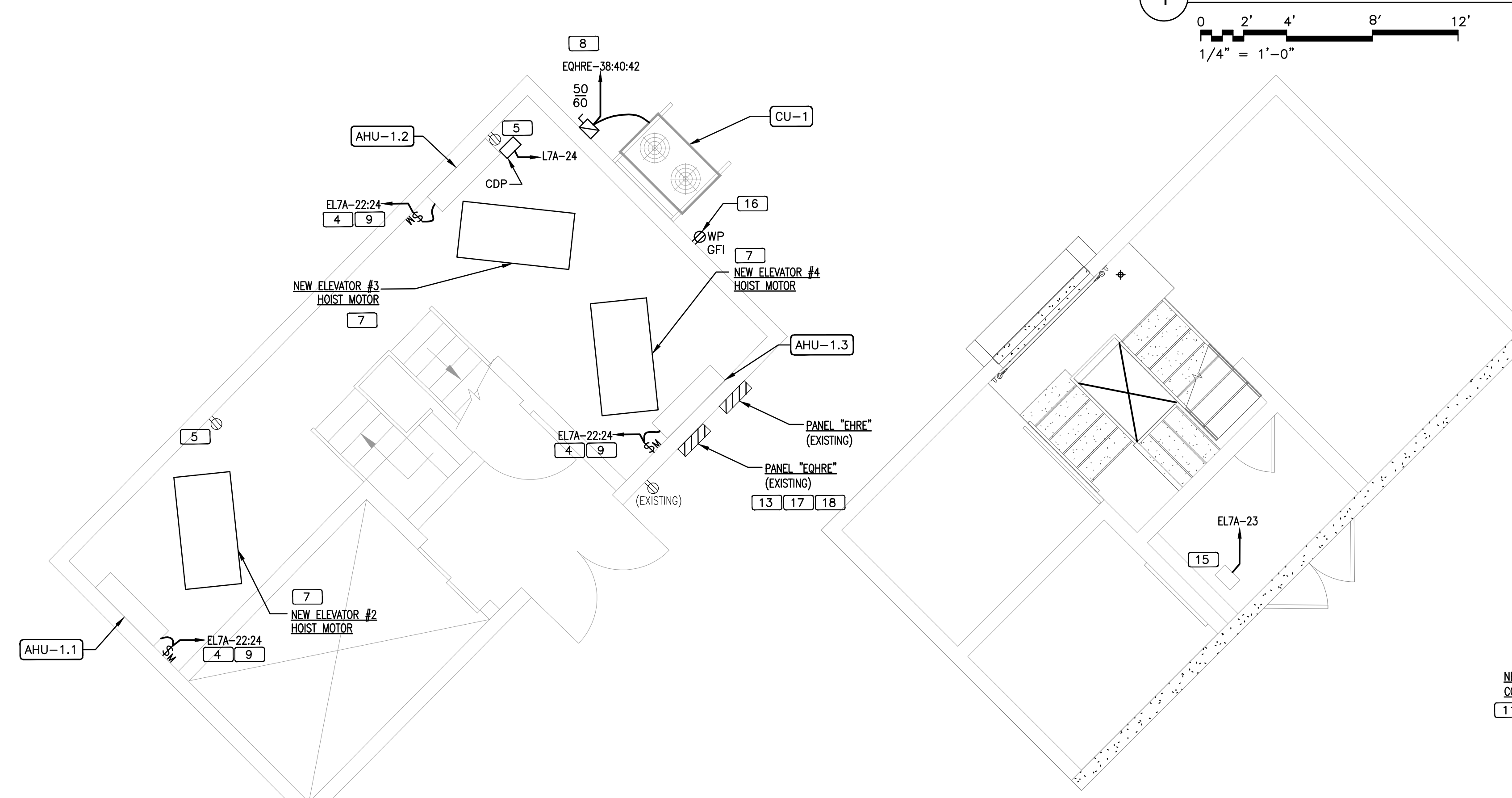
- ALL WORK SHALL BE DONE IN ACCORDANCE WITH THE 2010 FLORIDA ELEVATOR CODE, THE AMERICANS WITH DISABILITIES ACT (ADA) AND THE 2011 NATIONAL ELECTRICAL CODE (NEC).
- ALL BRANCH CIRCUITS FOR 120 VOLT, 20 AMP CIRCUITS EXCEEDING EIGHTY FEET IN LENGTH SHALL BE INCREASED IN SIZE AS REQUIRED TO ALLOW FOR VOLTAGE DROP LOSSES.
- PACK ALL SLEEVES FOR CONDUITS PASSING THROUGH FIRE RATED WALLS AND FLOOR SLABS WITH FIRE RESISTANT MATERIALS, ALL PENETRATIONS SHALL BE UL RATED.
- ALL EMPTY CONDUITS (EC) SHALL BE PROVIDED WITH NYLON PULL WIRES.
- ALL CONDUITS ABOVE SLAB, WHETHER EXPOSED OR CONCEALED, SHALL BE EMT, IMC, OR RIGID GALVANIZED STEEL.
- FLEXIBLE METAL RACEWAYS SHALL NOT EXCEED 6' IN LENGTH.
- "LIQUID-TIGHT" TYPE FLEXIBLE WEATHERPROOF RACEWAYS SHALL HAVE A METALLIC INTERIOR AND NOT EXCEED 6' IN LENGTH.
- ALL BOXES, PLASTER RINGS, EXTENSION RINGS, AND BOX COVERS SHALL BE METAL.
- ALL CONDUIT SHALL BE PARALLEL AND PERPENDICULAR TO STRUCTURAL MEMBERS.
- ALL BENDS SHALL BE MADE IN CONDUIT USING PROPER EQUIPMENT AND MEET NATIONAL ELECTRICAL CODE (NEC) REQUIREMENTS.
- ALL WIRE, INCLUDING BUT NOT LIMITED TO FEEDERS AND BRANCH CIRCUIT WIRING, SHALL BE COPPER - #10 AWG THWN MINIMUM.
- ALL BREAKERS SHALL BE "FULL SIZE". NO TANDEM, PIGGY BACK, TWIN, OR HALF SIZE BREAKERS WILL BE ACCEPTED. MATCH EXISTING AIC RATING FOR EXISTING PANEL.
- ALL DEVICES SHALL BE SPECIFICATION GRADE.
- ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR TEMPORARY POWER AND TEMPORARY LIGHTING DURING CONSTRUCTION. TEMPORARY POWER SHALL PROVIDE ADEQUATE POWER FOR NORMAL CONSTRUCTION USE. TEMPORARY LIGHTING SHALL PROVIDE ADEQUATE LIGHT SO THAT THE INDIVIDUAL TRADES WORK CAN BE COMPLETED.
- ALL ELECTRICAL EQUIPMENT SHALL BE UL LISTED.
- A GREEN INSULATED COPPER GROUND CONDUCTOR SHALL BE INSTALLED IN ALL RACEWAYS.
- GROUNDING SYSTEM SHALL BE IN ACCORDANCE WITH NEC ARTICLE 250 AND APPLICABLE REQUIREMENTS OF IEEE STANDARDS 142 AND 241.
- CONDUCTORS ARE SIZED FOR VOLTAGE DROP PER N.E.C. ARTICLE 210.19 (A)(1) FPN NO.4 AND F.B.C. 505.7.3.1&2 ON ANY CIRCUITS THAT ARE INSTALLED THAT DIFFER FROM THE DESIGN SHOWN IN THESE PLANS. FEEDER CONDUCTORS SHALL BE SIZED FOR A MAXIMUM VOLTAGE DROP OF 2% AND BRANCH CIRCUIT CONDUCTORS 3% AT DESIGN LOAD.

**POWER RENOVATION NOTES**

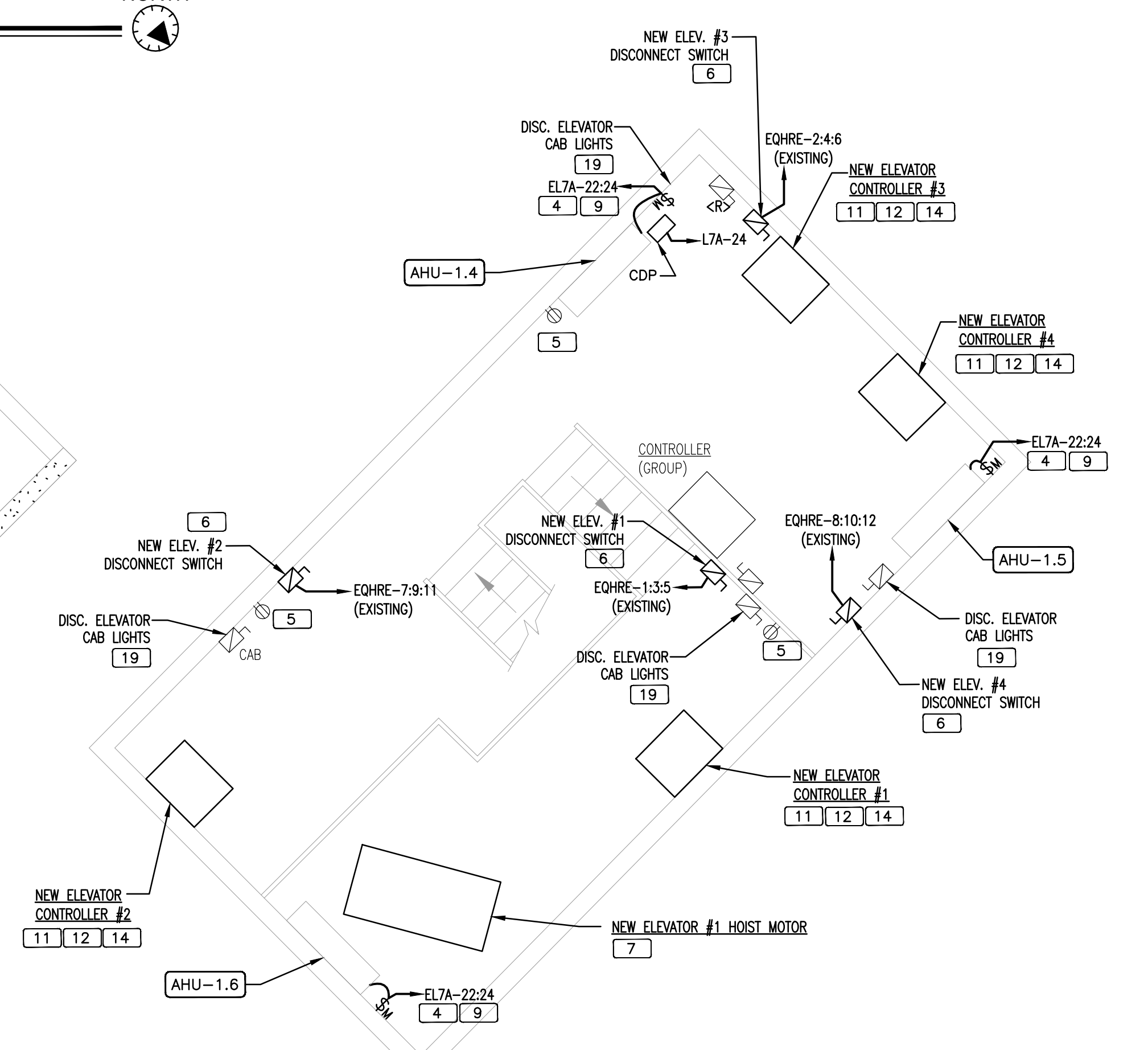
- REPLACE EXISTING RECEPTACLES, CONNECT TO EXISTING CIRCUIT. ALL RECEPTACLES SHALL BE GROUND FAULT CIRCUIT INTERRUPTING TYPE WITH WEATHERPROOF COVERS.
- NEW ELEVATOR CONTROL PANEL WITH INTERCOM/PHONE.
- EXISTING EQUIPMENT TO REMAIN "AS-IS". PROTECT THIS EQUIPMENT AND ALL ASSOCIATED WIRING THROUGHOUT CONSTRUCTION.
- 2P TOGGLE TYPE DISCONNECT SWITCH, MOUNT NEAR AHU HEIGHT.
- VERIFY THAT ALL 120 VAC RECEPTACLES IN ELEVATOR MACHINE AND EQUIPMENT ROOMS ARE GFCI PROTECTED AND REPLACE IF REQUIRED.
- NEW 3P-100A FUSED DISCONNECT SWITCH. VERIFY FINAL OVER CURRENT PROTECTION/FUSE SIZE REQUIRED WITH ELEVATOR MANUFACTURER'S NAME PLATE PRIOR TO ORDERING. MATCH AND EXTEND WIRING AND CONDUIT TO NEW DISCONNECT SWITCH AS NECESSARY. INSTALL 3/8" AND 1/8" GROUND IN 1-1/4" CONDUIT FROM DISCONNECT TO CONTROLLER AND MAKE ALL CONNECTIONS PER ELEVATOR MANUFACTURER'S REQUIREMENTS. PROVIDE GROUNDING FOR CONTROLLER ISOLATION TRANSFORMER PER N.E.C. SEE ELEVATOR DRAWINGS AND SPECIFICATIONS FOR EXACT REQUIREMENTS. PROVIDE FIRE ALARM RELAYS AND ALL REQUIRED EQUIPMENT FOR CONNECTION TO EXISTING FIRE ALARM SYSTEM.
- INSTALL 3/8" AND 1/8" GROUND IN 1-1/4" CONDUIT FROM ELEVATOR CONTROLLER TO NEW ELEVATOR HOST MOTOR AND MAKE ALL CONNECTIONS PER ELEVATOR MANUFACTURER'S REQUIREMENTS. SEE ELEVATOR DRAWINGS AND SPECIFICATIONS FOR EXACT REQUIREMENTS.
- NEW NEMA 3R, 3P-30A FUSED DISCONNECT SWITCH.
- PANEL "EL7A" IS LOCATED IN A 7TH FLOOR ELECTRICAL ROOM NEAR THE ELEVATORS. IN PANEL "EL7A", RELOCATE EXISTING 1 POLE, 20 AMP CIRCUIT BREAKER AND WIRING FEEDING FIRE ALARM FROM CIRCUIT 22 TO CIRCUIT 20. INSTALL A NEW 2 POLE, 20 AMP CIRCUIT BREAKER AT CIRCUITS 22/24 TO FEED (4) NEW AIR HANDLING UNITS AHU-1.1 THRU 2.2. UPDATE CIRCUIT DIRECTORY IN PANEL WITH NEW LOADS. NEW CIRCUIT BREAKERS BEING ADDED MUST MATCH AIC RATING OF EXISTING BREAKERS. PANEL "EL7A" IS RATED AT 10KAC (CONTRACTOR TO VERIFY).
- PANEL "L7A" IS LOCATED IN A 7TH FLOOR ELECTRICAL ROOM NEAR THE ELEVATORS.
- PROVIDE AND INSTALL TELEPHONE CONNECTION TO ELEVATOR CONTROLLER AS REQUIRED.
- PROVIDE AND INSTALL FIRE ALARM SYSTEM CONNECTION TO ELEVATOR CONTROLLER AS REQUIRED.
- VERIFY THAT CIRCUIT BREAKERS FEEDING ELEVATORS HAVE A SHUNT TRIP CONNECTED TO SPRINKLER SYSTEM HEAT DETECTORS IN ELEVATOR EQUIPMENT/MACHINE ROOMS AND PROVIDE AS REQUIRED.
- ELEVATORS ARE FED THROUGH AUTOMATIC TRANSFER SWITCH ATS#3 IN MAIN ELECTRICAL ROOM ON FIRST FLOOR. TIMERS IN ATS MUST BE SET FOR 30 SECOND PRE AND POST TIME DELAY DURING TRANSFER OF POWER.
- NEW VRF CONTROLS SYSTEM.
- CONNECT TO NEAREST EXISTING RECEPTACLE CIRCUIT.
- INSTALL A LISTED, WEATHERPROOF TRANSIENT VOLTAGE SURGE SUPPRESSOR ON PANEL AND CONNECT PER MANUFACTURER'S INSTRUCTIONS.
- VERIFY THAT THE TRIP SETTING ON EXISTING 100 AMP CIRCUIT BREAKER THAT FEEDS ELEVATOR IS ADJUSTABLE TO MEET REQUIREMENTS OF NEW ELEVATOR AND ADJUST AS REQUIRED. FEEDERS TO NEW ELEVATOR DISCONNECT SWITCH SHOULD BE 3/8" AND 1/8" GROUND IN 1-1/4" CONDUIT MINIMUM.
- EXISTING DISCONNECT SWITCH FOR ELEVATOR CAB TO BE REUSED. RECONNECT AND MAKE ALL CONNECTIONS TO NEW ELEVATOR EQUIPMENT PER ELEVATOR INSTALLERS REQUIREMENTS.



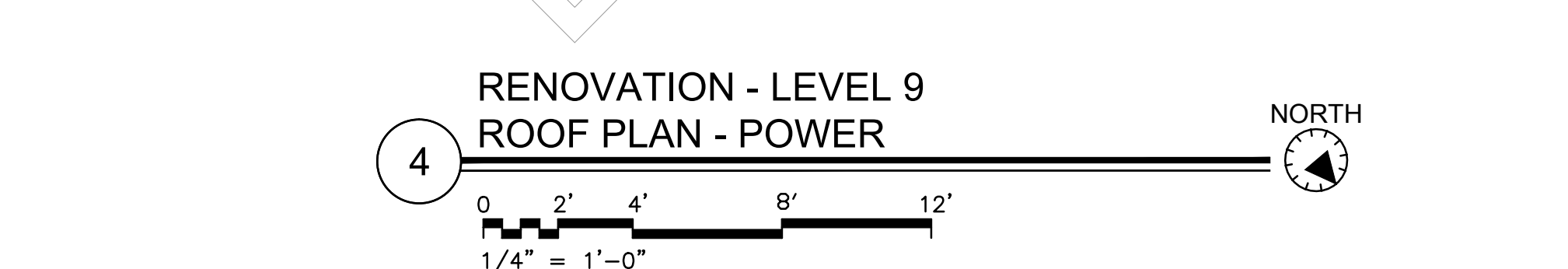
**1 RENOVATION - LEVEL 1 FLOOR PLAN - POWER**



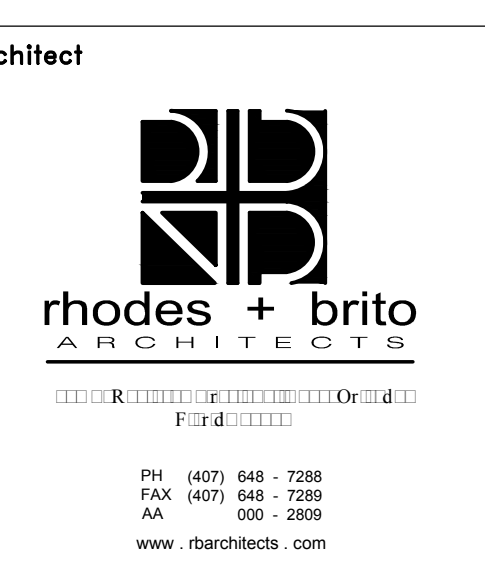
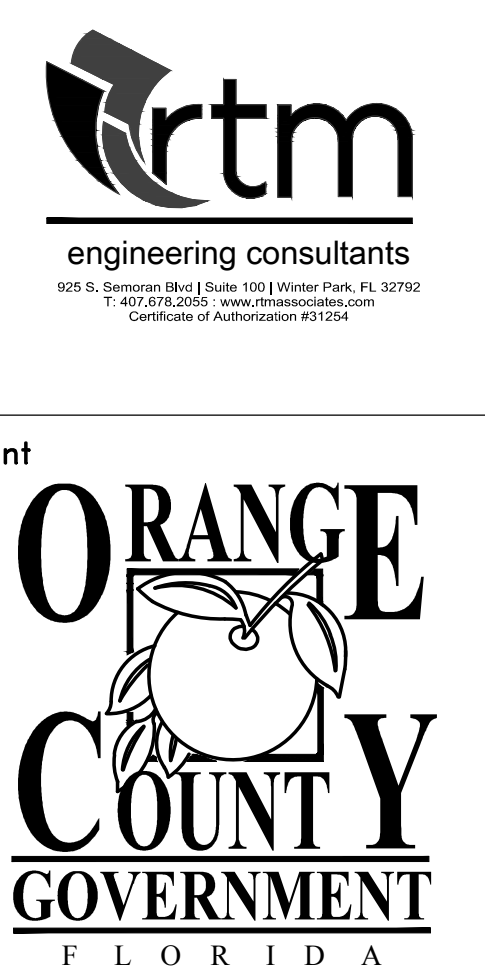
**2 RENOVATION - LEVEL 8 ROOF PLAN - POWER**



**3 RENOVATION - LEVEL 8 STAIRWELL LANDING - POWER**



**4 RENOVATION - LEVEL 9 ROOF PLAN - POWER**



**Engineer of Record**

Mitesh K. Smart, PE: 52772 (FL)  
06/16/2017

**Project:**  
ORANGE COUNTY CORRECTIONS HORIZONS ELEVATOR MODERNIZATION

**Location:**  
3723 VISION BLVD.  
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**Drawn By:** ME      **Checked By:** MKS

**ELECTRICAL POWER RENOVATION FLOOR PLANS**

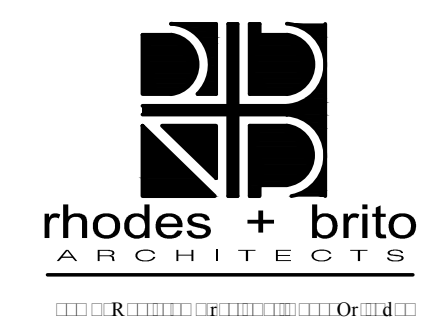
**Sheet No.:**  
**E102**



Client



Architect



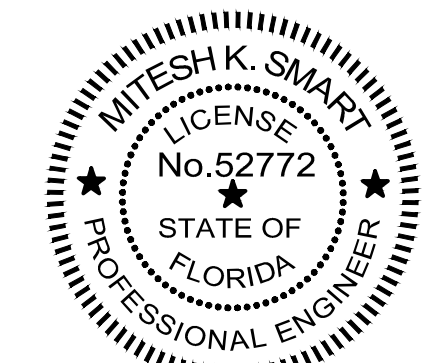
PH: 407.646.7208  
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100 S. 20th  
www.rhodesbrito.com

Structural:



EOR Stamp:

Engineer of Record



06/16/2017  
Mitesh K. Smart, PE: 52772 (FL)

Project:  
**ORANGE COUNTY CORRECTIONS HORIZONS ELEVATOR MODERNIZATION**

Location:  
3723 VISION BLVD.  
ORLANDO, FL 32839

Issuance:  
**PERMIT DOCUMENTS**  
FOR PERMITTING & CONSTRUCTION

Revisions:

#	DATE	DESCRIPTION

Date:  
JUNE 16, 2017

Project Number:  
16.OC.033

Drawn By: ME  
Checked By: MKS

**ELECTRICAL LIGHTING RENOVATION FLOOR PLANS**

Sheet No.:

**E103**

LIGHT FIXTURE SCHEDULE			
TYPE	MANUFACTURER & PART NUMBER	DESCRIPTION	WATTAGE
A	LITHONIA WL4 40L EZ1 LP840 NES7 SIM10	4' LED STRIP LIGHT FIXTURE. MVOLT	40W
B	MAXLITE MLVPDLWG W 14 LED50 CP	LED VAPORPROOF JELLY JAR FIXTURE. MVOLT	14W

1. CONTRACTOR SHALL PROVIDE SUBMITTAL OF ALL FIXTURES TO OWNER AND ARCHITECT. SUBMITTAL SHALL BE APPROVED BY OWNER, ARCHITECT AND ENGINEER PRIOR TO ORDERING ANY FIXTURES. IT IS THE RESPONSIBILITY OF THE LIGHTING VENDOR TO ENSURE OWNER & ARCHITECT HAVE SIGNED OFF ON SUBMITTALS. RTM ENGINEERING WILL NOT BE RESPONSIBLE FOR DESIGN INTENT OF FIXTURES NOT MEETING OWNER'S OR ARCHITECT'S EXPECTATIONS.

2. ANY SUBSTITUTION OF FIXTURES WILL REQUIRE A FULL PHOTOMETRIC ANALYSIS TO BE PROVIDED FOR ALL SUBSTITUTED AREAS. LIGHTING VENDOR/DISTRIBUTOR WILL BE RESPONSIBLE FOR GATHERING AND EVALUATING DATA TO MATCH INTENDED FIXTURE PHOTOMETRIC RESULTS. SUBSTITUTED FIXTURES WILL NOT BE APPROVED WITHOUT PHOTOMETRIC PROVIDED WITH SUBMITTAL.

3. SUBSTITUTION OF LIGHT FIXTURES SHALL BE PRESENTED FIFTEEN DAYS PRIOR TO BID. ANY ADDITIONAL ENGINEERING COST FOR RE-WORK OR EXTRA SUBMITTAL EVALUATION FOR SUBSTITUTIONS SHALL BE PAID FOR BY GENERAL CONTRACTOR.

NOTE: PROVIDE QUICK DISCONNECT FOR BALLAST PER NEC 2008 410.73(G).

**LIGHTING RENOVATION GENERAL NOTES**

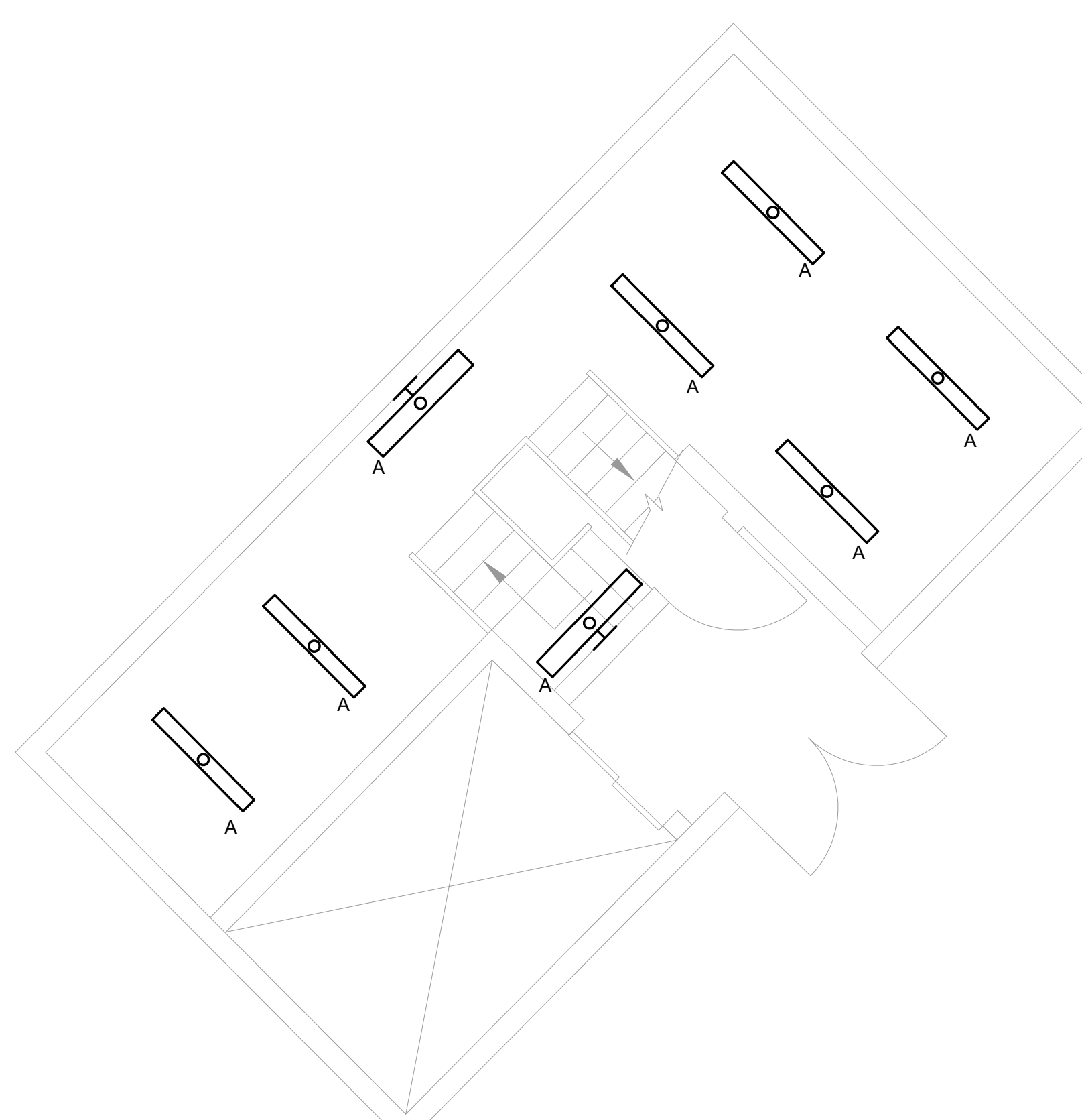
- ALL NEW LIGHT FIXTURES ON LEVELS 8 & 9 SHALL BE CONNECTED TO EXISTING EMERGENCY LIGHTING CIRCUIT EHTA-11; CONTRACTOR TO VERIFY CIRCUIT NUMBER.
- CONNECT NEW LIGHT FIXTURES AND SWITCHES IN ELEVATOR PIT TO EXISTING LIGHTING CIRCUIT. MATCH AND EXTEND WIRING AND CONDUIT AS NECESSARY.

**LIGHTING RENOVATION NOTES**

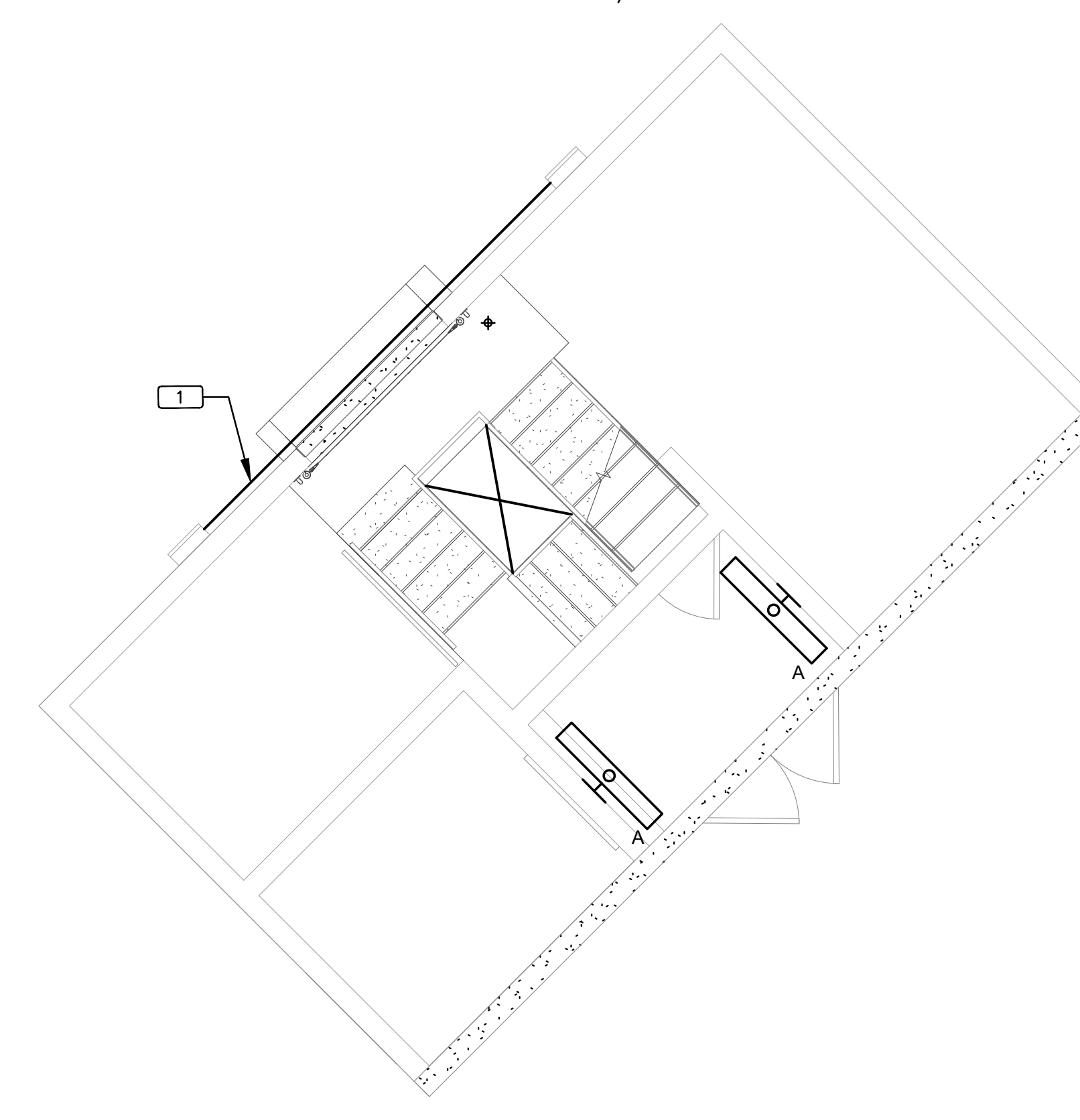
- ADD ALTERNATE 4: REROUTE EXISTING EXTERIOR CONDUIT ABOVE NEW ROLLING DOOR EQUIPMENT. MATCH AND EXTEND WIRING AND CONDUIT AS NECESSARY. COORDINATE FINAL MOUNTING HEIGHT WITH ARCHITECTURAL DRAWINGS.



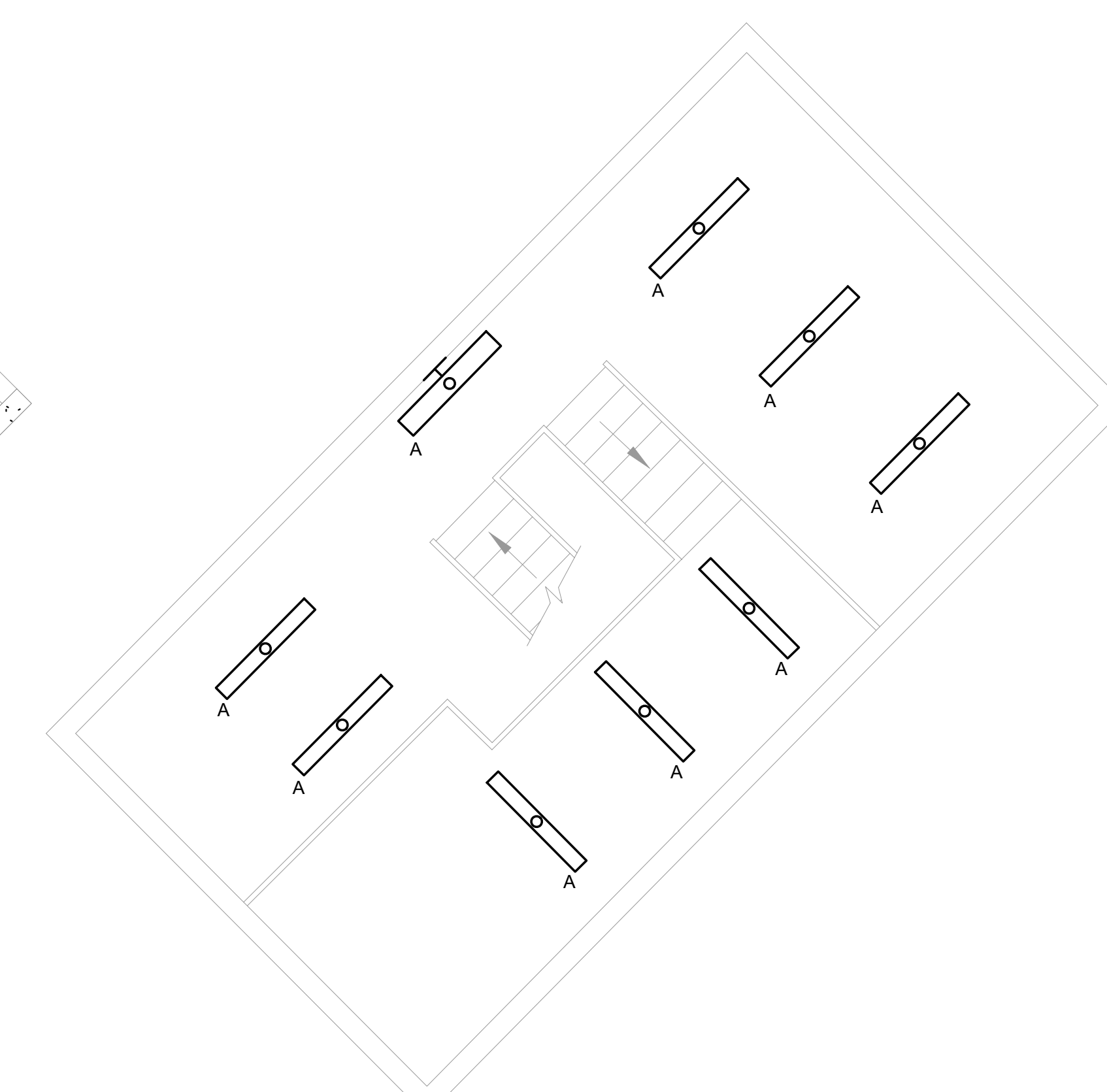
1 RENOVATION - LEVEL 1 FLOOR PLAN - LIGHTING  
0 2' 4' 8' 12'  
1/4" = 1'-0"



2 RENOVATION - LEVEL 8 ROOF PLAN - LIGHTING  
0 2' 4' 8' 12'  
1/4" = 1'-0"



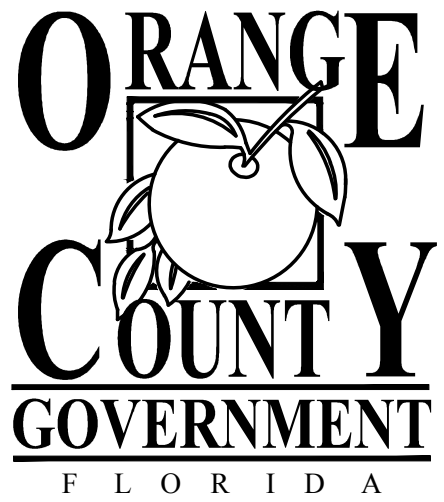
3 RENOVATION - LEVEL 8 STAIRWELL LANDING - LIGHTING  
0 2' 4' 8' 12'  
1/4" = 1'-0"



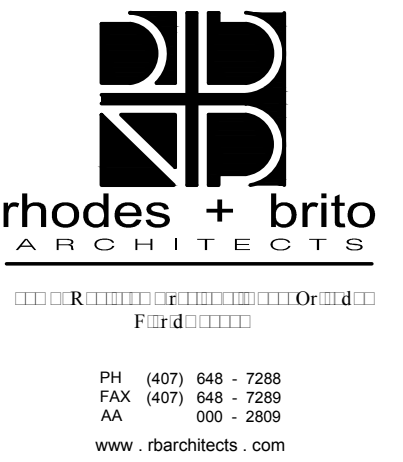
4 RENOVATION - LEVEL 9 ROOF PLAN - LIGHTING  
0 2' 4' 8' 12'  
1/4" = 1'-0"



Client



Architect



Structural:



EOR Stamp:

Engineer of Record



Project:

**ORANGE COUNTY  
CORRECTIONS  
HORIZONS ELEVATOR  
MODERNIZATION**

Location:

3723 VISION BLVD.  
ORLANDO, FL 32839

Issuance:

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Revisions:

#	DATE	DESCRIPTION

Date:

JUNE 16, 2017

Project Number:

16.0C.033

Drawn By:

ME

Checked By:

MKS

**ELECTRICAL  
PANEL  
SCHEDULES**

Sheet No.:

**E201**

PANEL L7A (EXISTING)														PANEL EL7A (EXISTING)																							
UPDATED: 5/5/2017 4:02 pm ISSUED FOR: APPROVAL LOCATION: ELEC RM VOLTAGE: 120Y/208V TRIM: SURFACE MAIN: 400A MLO SYSTEM: 3ø, 4W BUS RATING: 400A CONN. LOAD: 22.9 KVA FEED: TOP GROUND BUS: YES COPPER														UPDATED: 5/4/2017 2:09 pm ISSUED FOR: APPROVAL LOCATION: ELEC RM VOLTAGE: 120Y/208V TRIM: SURFACE MAIN: 100A MLO SYSTEM: 3ø, 4W BUS RATING: 100A CONN. LOAD: 28.1 KVA FEED: TOP GROUND BUS: YES COPPER																							
CKT	LOAD SERVED	COND	PHASE	NEUT	GND	BKR	DMD	L1	L2	L3	DMD	BKR	COND	PHASE	NEUT	GND	LOAD SERVED	CKT	LOAD SERVED	COND	PHASE	NEUT	GND	BKR	DMD	L1	L2	L3	DMD	BKR	COND	PHASE	NEUT	GND	LOAD SERVED	CKT	
1	LIGHTS					20/1	L	1200			R	20/1						2	1	LIGHTING CONTROL					20/1	N	800							2	1	OUTLET FOR SERVER	2
3	LIGHTS					20/1	L	1100			R	20/1						4	3	CARD ACCESS					20/1	N	1200							4	3	ELEV CONTROL	4
5	LIGHTS					20/1	L	1200			R	20/1						6	5	EMCS					20/1	N	1200							6	5	ELEV CONTROL	6
7	LIGHTS					20/1	L	1100			R	20/1						8	7	EMCS					20/1	N	1200							8	7	ELEV #2 (40HP)	8
9	ROOF RECEPTACLE					20/1	R	600			R	20/1						10	9	EMCS					20/1	N	1200							10	9	ELEV CONTROL	10
11	ROOF RECEPTACLE					20/1	R	1100			R	20/1						12	11	EMCS					20/1	N	1200							12	11	ELEV CONTROL	12
13	ROOF RECEPTACLE					20/1	R	600			R	20/1						14	13	EMCS					20/1	N	1200							14	13	EMCS	14
15	ROOF RECEPTACLE					20/1	R	1100			R	20/1						16	15	EMCS					20/1	N	1200							16	15	EMCS	16
17	EXISTING LOAD					20/1	N	1000			N	20/1						18	17	EMCS					20/1	N	1200							18	17	EMCS	18
19	EXISTING LOAD					20/1	N	1500			N	20/1						20	19	EMCS					20/1	N	1200							20	19	FIRE ALARM	20
21	SPACE																	22	21	EXISTING LOAD					20/1	N	1200							22	21	ELEVATOR AHU 1.1-2.2	22
23	SPACE																	24	23	ELEVATOR - VRF CONTROL					20/1	N	1875							24	23	ELEVATOR AHU 1.1-2.2	24
INTERRUPT RATING: 7300 7600 8000 FROM:														INTERRUPT RATING: 8500 9675 9875 FROM:																							
LOADS (IN VA ) CONNECTED DEMAND MINIMUM FACTOR FEEDER LIGHTING 4800 1.25 6000 RECEPTS TO 10 KVA 10000 1.0 10000 RECEPTS REMAINING 100 0.5 50 SPACE HEATING 0 0.0 0 AIR CONDITIONING 0 1.0 0														LOADS (IN VA ) CONNECTED DEMAND MINIMUM FACTOR FEEDER LIGHTING 0 1.25 0 RECEPTS TO 10 KVA 0 1.0 0 RECEPTS REMAINING 0 0.5 0 SPACE HEATING 0 0.0 0 AIR CONDITIONING 3350 1.0 3350																							
REMAINING CONTINUOUS LOADS 0 1.25 0 NON-CONTINUOUS LOADS 8000 1.0 8000 DEMAND LOADS 0 1.0 0 TOTAL CONNECTED LOAD 22.9 KVA 63.6 AMPS MIN. FEEDER/PANEL CAP. 24.1 KVA 66.8 AMPS OVERALL DEMAND FACTOR 1.05														REMAINING CONTINUOUS LOADS 0 1.25 0 NON-CONTINUOUS LOADS 24700 1.0 24700 DEMAND LOADS 0 1.0 0 TOTAL CONNECTED LOAD 28.1 KVA 77.9 AMPS MIN. FEEDER/PANEL CAP. 28.1 KVA 77.9 AMPS OVERALL DEMAND FACTOR 1.00																							

PANEL EQHRE (EXISTING)																																								
UPDATED: 5/5/2017 12:28 pm ISSUED FOR: APPROVAL LOCATION: ELEC RM VOLTAGE: 277Y/480V TRIM: SURFACE MAIN: 400A MLO SYSTEM: 3ø, 4W BUS RATING: 400A CONN. LOAD: 254.7 KVA FEED: TOP GROUND BUS: YES COPPER																																								
CKT	LOAD SERVED	COND	PHASE	NEUT	GND	BKR	DMD	L1	L2	L3	DMD	BKR	COND	PHASE	NEUT	GND	LOAD SERVED	CKT																						
1	ELEV #1 (40HP)					100/3	N	14410			N	100/3						2	1	ELEV #3 (40HP)					100/3	N	14410						2	1	ELEV #3 (40HP)	2				
3																		4	3															4	3		4			
5																		6	5																6	5		6		
7	ELEV #2 (40HP)					100/3	N	14410			N	100/3						8	7																8	7	ELEV #4 (40HP)	8		
9																		10	9																	10	9		10	
11																		12	11																	12	11		12	
13	RF (3HP)					15/3	N	1330			N	15/3						14	13	RF (3HP)					15/3	N	1330							14	13	RF (3HP)	14			
15																		16	15																	16	15		16	
17																		18	17																	18	17		18	
19	RF (3HP)					15/3	N	1330			N	15/3						20	19	RF (3HP)					15/3	N	1330									20	19	RF (3HP)	20	
21																		22	21																	22	21		22	
23																		24	23																	24	23		24	
25	RF (3HP)					15/3	N	1330			N	15/3						26	25	RF (3HP)					15/3	N	1330									26	25	RF (3HP)	26	
27																		28	27																	28	27		28	
29																		30	29																		30	29		30
31	RF (3HP)					15/3	N	1330			N	15/3						32	31	RF (3HP)					15/3	N	1330									32	31	RF (3HP)	32	
33																		34	33																	34	33		34	
35																		36	35																		36	35		36
37	EXISTING LOAD					20/3	N	10814			N	20/3						38	37	EXISTING LOAD					20/3	N	10814									38	37	EXISTING LOAD	38	
39																		40	39																		40	39		40
41																		42	41																		42	41		42
43																		44	43																		44	43		44
45																		46	45																		46	45		46
47																		48	47																		48	47		48
INTERRUPT RATING: 84894 84894 84894 FROM:																																								
LOADS (IN VA ) CONNECTED DEMAND MINIMUM FACTOR FEEDER LIGHTING 0 1.25 0 RECEPTS TO 10 KVA 0 1.0 0 RECEPTS REMAINING 0 0.5 0 SPACE HEATING 0 0.0 0 AIR CONDITIONING 31842 1.0 31842														LOADS (IN VA ) CONNECTED DEMAND MINIMUM FACTOR FEEDER NON-SEASONAL MOTORS 0 1.0 0 LARGEST MOTOR 3990 0.25 998 WATER HEATING 0 1.0 0 KITCHEN EQUIP. 0 1.0 0																										
REMAINING CONTINUOUS LOADS 0 1.25 0 NON-CONTINUOUS LOADS 222840 1.0 222840 DEMAND LOADS 0 1.0 0 TOTAL CONNECTED LOAD 254.7 KVA 306.5 AMPS MIN. FEEDER/PANEL CAP. 255.7 KVA 307.7 AMPS OVERALL DEMAND FACTOR 1.00														REMAINING CONTINUOUS LOADS 0 1.25 0 NON-CONTINUOUS LOADS 222840 1.0 222840 DEMAND LOADS 0 1.0 0 TOTAL CONNECTED LOAD 254.7 KVA 306.5 AMPS MIN. FEEDER/PANEL CAP. 255.7 KVA 307.7 AMPS OVERALL DEMAND FACTOR 1.00																										