

KCHA EASTRIDGE HOUSE ELEVATOR MODERNIZATION

ABBREVIATIONS

& L AND ANGLE
@ AT
DIAMETER
(E) POUND OR NUMBER
EXISTING
C CENTERLINE
R PROPERTY LINE

A.B. ANCHOR BOLT
ABV ABOVE
AC AIR CONDITIONING
ACP ACOUSTIC CEILING PANEL
ACU AIR CONDITION UNIT
ADJ ADJUSTABLE
AFF ABOVE FINISHED FLOOR
ALT ALTERNATE
ALUM ALUMINUM
APPROX APPROXIMATELY
ARCH ARCHITECT, ARCHITECTURAL

BLDG BUILDING
BLW BELOW
BM BEAM
B.O. BOTTOM OF
BRS BACKER ROD & SEALANT


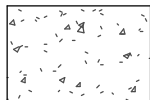
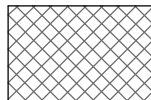
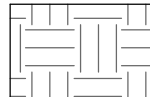
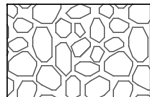


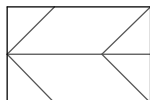
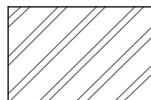
CB CATCH BASIN
CBB CEMENT BACKER BOARD
CEM CEMENT
CJ CONTROL JOINT
CL CENTERLINE
CLG CEILING
CLR CLEAR
CO CLEAN OUT
COL COLUMN
CONC CONCRETE
COND CONDITION
CONT CONTINUOUS
CPT CARPET
CT CERAMIC TILE
CTR CENTER

DBL DOUBLE
DEMO DEMOLISH
DF DRINKING FOUNTAIN
DIA DIAMETER
DIFF DIFFUSER
DIM DIMENSION
DISP DISPENSER
DN DOWN
DR DOOR
DS DOWNSPOUT
DTL DETAIL
DW DISHWASHER

E EAST
EA EACH
ECS EXTERIOR COMPOSITE SIDING
EF EXHAUST FAN
EJ EXPANSION JOINT
EL ELEVATION
ELEC ELECTRICAL
ELEV ELEVATOR
EMERG EMERGENCY
EQ EQUAL
EXP EXPANSION
EXT EXTERIOR

FBP FIBER BOARD PANEL
FD FLOOR DRAIN
FE FIRE EXTINGUISHER
FF FINISH FLOOR
FH FIRE HYDRANT
FIN FINISH
FLR FLOOR
F.O. FACE OF
FOIC FURNISHED BY OWNER,
INSTALL BY CONTRACTOR
FURNISHED BY OWNER
INSTALL BY OWNER
FR FIRE RESISTANT
FS FLOOR SINK
FT FEET

MATERIAL SYMBOLS

	BATT INSULATION		CONCRETE		RIGID INSULATION
	EARTH		GRAVEL		WOOD
	MASONRY		PLYWOOD		STEEL

GA GAUGE
GALV GALVANIZED
GB GRAB BAR
GC GENERAL CONTRACTOR
GL GLASS
GLB GLU-LAM BEAM
GND GROUND
GR GRADE
GRTD GROUDED
GWB GYPSUM WALL BOARD

HB HOSE BIBB
HC HANDICAP
HCMU HOLLOW CLAY MASONRY UNIT
HWD HARDWOOD
HWE HARDWARE
HT HEIGHT
HM HOLLOW METAL
HR HOUR
HORIZ HORIZONTAL

I.D. INSIDE DIAMETER
INSUL INSULATION
INT INTERIOR

JAN JANITOR
JT JOINT

KIT KITCHEN

LAB LABORATORY
LAM LAMINATE
LAV LAVATORY
LKR LOCKER
LOC LOCATE
LT LIGHT
LVL LAMINATED VENEER LUMBER

M MEN'S
MATL MATERIAL
MC MAXIMUM
MEC MECHANICAL
MEMB MEMBRANE
MFR MANUFACTURER
MIN MINIMUM
MIR MIRROR
MISC MISCELLANEOUS
MH MANHOLE
MO MASONRY OPENING
MTD MOUNTED
MTL METAL
MULL MULLION

N NORTH
NA NOT APPLICABLE
NIC NOT IN CONTRACT
NOM NOMINAL
NTS NOT TO SCALE
NR NOT RATED

OA OVERALL
OBS OBSCURE
O.C. ON CENTER
O.D. OUTSIDE DIAMETER
OFF OFFICE
OPNG OPENING
OPP OPPOSITE

PC PRECAST CONCRETE
PL PLATE
PLAS PLASTER
PLY PLYWOOD
P.LAM PLASTIC LAMINATE
PNT PAINT
POC POINT OF CONNECTION
PR PAIR
PSL PARALLEL STRAND LUMBER
PT PRESSURE TREATED
PTN PARTITION

QT QUARRY TILE

R or RAD RADIUS
RB RESILIENT BASE
RCP REFLECTED CEILING PLAN
RD ROOF DRAIN
REF REFERENCE
REFR REFRIGERATOR
REINF REINFORCED
RELOC RELOCATE
REQD REQUIRED
RES RESILIENT
RM ROOM
RO ROUGH OPENING
RV ROOF VENT
RL RAIN WATER LEADER

S SOUTH
SA SMOKE ALARM
SC SOLID CORE
SCHED SCHEDULE
SECT SECTION
SG SAFETY GLASS
SHIT SHEET
SIM SIMILAR
SPEC SPECIFICATION
SQ SQUARE
S.S. STAINLESS STEEL
STA STATION
STD STANDARD
STL STEEL
STN STAIN
STOR STORAGE
STRUCT STRUCTURE
SOG SLAB ON GRADE
SUSP SUSPENDED
SYM SYMMETRICAL

T, TMP TEMPERED
T&G TONGUE & GROOVE
TEL TELEPHONE
TER TERRAZZO
THK THICK
T.O. TOP OF
TS TUBE STEEL
TV TELEVISION
TYP TYPICAL

UL UNDERWRITERS' LABORATORIES
UNO UNLESS NOTED OTHERWISE
UTIL UTILITY

VCT VINYL COMPOSITION TILE
VERT VERTICAL
VEST VESTIBULE
VIF VERIFY IN FIELD
VTR VENT THRU ROOF

W WEST
W/ WITH
WC WATER CLOSET
WO WOOD
WF WIDE FLANGE
WIN WINDOW
W/O WITHOUT
WOM WALK OFF MAT
WM WOMEN'S
WP WATERPROOFING
WR WATER RESISTANT
WRB WATER-RESISTIVE BARRIER
WSCT WAINSCOT
WT WEIGHT

DRAFTING SYMBOLS

1 SIM
A101
WALL SECTION

1 SIM
A101
BLDG SECTION

1
A101
EXTERIOR ELEVATION

1
A101
INTERIOR ELEVATION

1 SIM
A101
DETAIL

1
A101
NORTH ARROW

0
GRID HEAD

ROOM NAME
101
ROOM TAG

1i
WINDOW & STOREFRONT TAG

R1
FLOOR, WALL, CEILING OR ROOF TAG

C1
CASEWORK TAG

101
DOOR TAG

1
KEY NOTE

NAME
ELEVATION
ELEVATION NOTE

XXX
T.O. XXX
SPOT ELEVATION

1
CENTERLINE

1
PROPERTY LINE

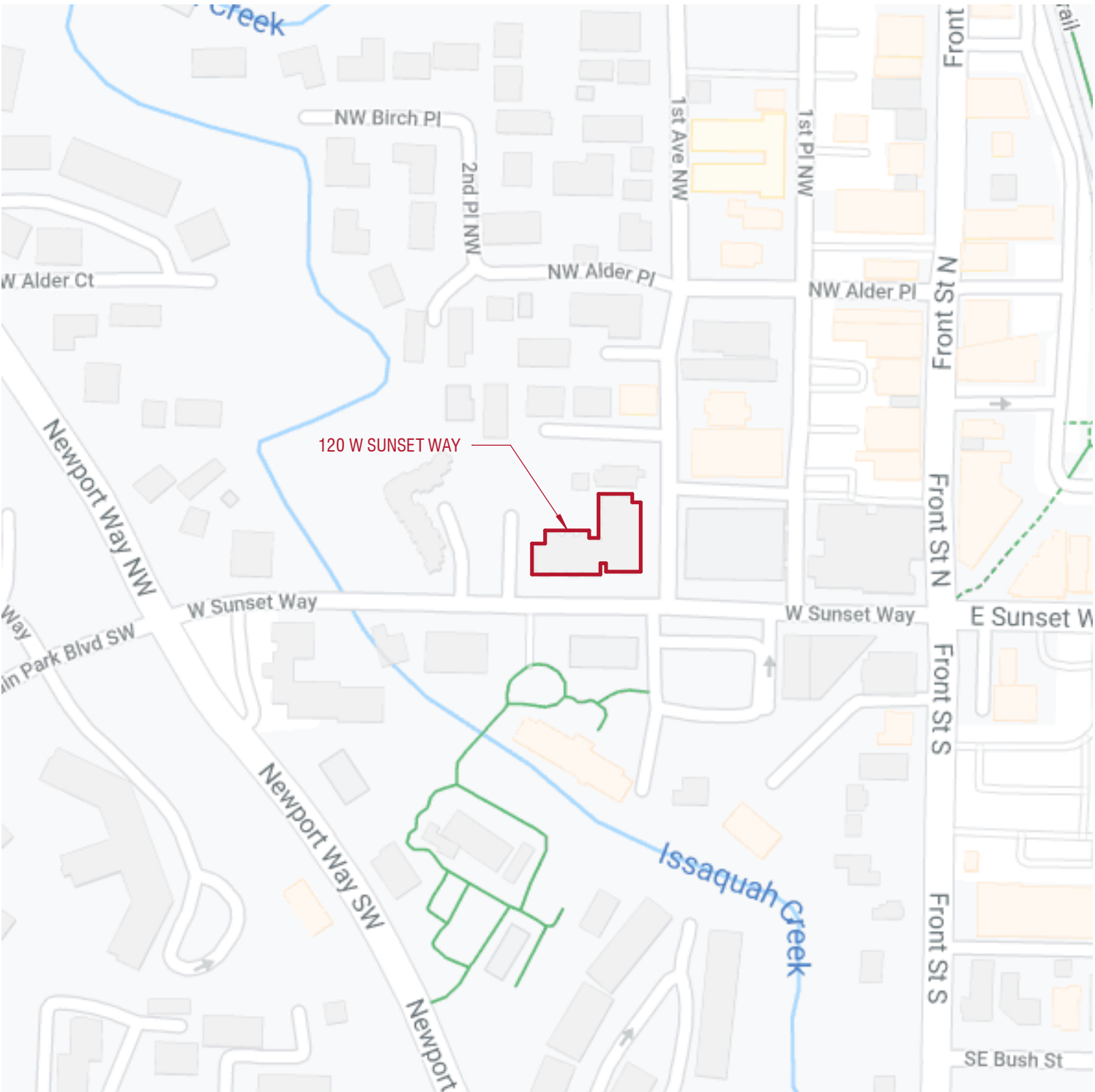
1
FLOOR TRANSITION

1
REVISION

1
BREAKLINE

1
DIMENSION POINT

1
ENLARGED DETAIL CALLOUT



VICINITY MAP

GENERAL NOTES

- WHERE CONFLICTS OCCUR, THE SCOPE OF WORK TAKES PRECEDENCE OVER SPECIFICATIONS, AND SPECIFICATIONS TAKE PRECEDENCE OVER THE DRAWINGS.
- MATERIALS, ASSEMBLIES AND NOTED ITEMS ARE NEW UNLESS OTHERWISE NOTED.
- CONTRACTOR SHALL VERIFY CONDITIONS. NOTIFY THE OWNER IF ANY CONDITIONS INCONSISTENT WITH THE INTENT OF THE DRAWINGS PRIOR TO STARTING OR CONTINUING WORK IN THE AREA CONCERNED.
- PROTECT ALL EXISTING LANDSCAPING.
- BUILDINGS OCCUPIED DURING CONSTRUCTION.
- DO NOT DISCONNECT POWER, DATA OR CABLE DURING CONSTRUCTION. COORDINATE REQUIRED SHUTDOWNS WITH OWNER.

CODE:
1. ALL WORK SHALL CONFORM TO APPLICABLE CODES AND LOCAL BUILDING REQUIREMENTS, WHICH INCLUDE THE MOST CURRENT EDITIONS OF THE INTERNATIONAL BUILDING CODE WITH LOCAL AMENDMENTS, INTERNATIONAL MECHANICAL CODE (IMC), NATIONAL ELECTRICAL CODE (NEC), INTERNATIONAL FIRE CODE (IFC), AND WASHINGTON STATE ENERGY CODE (WEC).
2. MECHANICAL, ELECTRICAL AND ELEVATOR PERMITS TO BE APPLIED FOR UNDER SEPARATE APPLICATION BY CONTRACTOR.
3. PER IBC 503.1, ALL WORK IS CLASSIFIED AS AN ALTERATION LEVEL 1 - REMOVAL OR REPLACEMENT OF EXISTING MATERIALS, ELEMENTS, EQUIPMENT, OR FIXTURES USING NEW MATERIALS, ELEMENTS, EQUIPMENT, OR FIXTURES THAT SERVE THE SAME PURPOSE. PER IBC 701.2, AN EXISTING BUILDING SHALL NOT BE ALTERED SUCH THAT THE BUILDING BECOMES LESS SAFE THAN ITS EXISTING CONDITION.

HAZMAT:
1. PROVIDE ENVIRONMENTAL SITE ASSESSMENT REPORT THAT IS A 'LIMITED ASBESTOS AND OTHER REGULATED MATERIALS' SURVEY OF THE AREAS OF WORK.
2. THE CONTRACTOR WILL SUSPEND WORK IMMEDIATELY AND NOTIFY THE OWNER IF MATERIALS SUSPECTED OF BEING HAZARDOUS, AND NOT PREVIOUSLY IDENTIFIED, ARE ENCOUNTERED IN THE COURSE OF THE CONTRACTOR'S WORK.

DEMOLITION:
1. WHERE ITEMS ARE INDICATED ON PLANS TO BE DEMOLISHED, IT SHALL MEAN THE COMPLETE REMOVAL AND DISPOSAL OF THE ITEM INDICATED UNLESS OTHERWISE NOTED. "REMOVE" MEANS TO COMPLETELY AND PERMANENTLY REMOVE FROM THE PROJECT.
2. PATCH AND REPAIR TO "LIKE-NEW" CONDITION ALL EXISTING SURFACES AFFECTED BY DEMOLITION WORK.
3. CONTRACTOR IS RESPONSIBLE FOR REVIEW AND COORDINATION OF THE HAZARDOUS MATERIALS ABATEMENT, ARCHITECTURAL, ELEVATOR, MECHANICAL AND ELECTRICAL DRAWINGS AND SPECIFICATIONS FOR CUTTING AND PATCHING WORK.

DIMENSIONS:
1. DO NOT SCALE DRAWINGS.
2. VERIFY DIMENSIONS SHOWN ON DRAWINGS. USE ONLY DIMENSIONS INDICATED. PRIOR TO STARTING OR CONTINUING WORK, NOTIFY ARCHITECT OF DISCREPANCIES OR CONDITIONS INCONSISTENT WITH THE INTENT OF THE CONSTRUCTION DOCUMENTS.
3. DIMENSIONS ARE TO FACE OF CONCRETE, FACE OF MASONRY, OR FACE OF STUD, UNLESS OTHERWISE NOTED.
4. FINISHED SURFACE OF INFILL OR EXTENSIONS OF EXISTING PARTITIONS SHALL ALIGN WITH ADJACENT EXISTING SURFACES UNLESS OTHERWISE NOTED.
5. VERTICAL DIMENSIONS ARE MEASURED FROM STRUCTURAL SLAB, TOP OF STEEL OR TOP OF SHEATHING, UNLESS NOTED OTHERWISE.

COORDINATION:
1. COORDINATE ALL OPERATIONS WITH OWNER, SUCH AS AREAS USED FOR MATERIAL STORAGE, ACCESS TO AND FROM THE SITE, TIMING OF WORK AND REQUIREMENTS OF NOISE ORDINANCE. INSTALL DUST AND NOISE BARRIERS AS REQUIRED TO PROTECT EXISTING ADJACENT BUILDINGS AND OCCUPANTS AND TO MAINTAIN AN ENVIRONMENT SUITABLE TO PERMIT CONTINUED OCCUPANCY OF SUBJECT AND ADJACENT BUILDINGS.
2. VERIFY LOCATIONS OF EXISTING UTILITIES. CAP, MARK AND PROTECT AS NECESSARY TO COMPLETE THE WORK.
3. PIPING, CONDUITS, DUCTS, ETC. SHALL BE CONCEALED IN WALLS, CHASES, ABOVE SUSPENDED CEILINGS, BELOW FLOORS OR BE FURRED-IN IN ROOMS WITH EXISTING CEILINGS, UNLESS OTHERWISE NOTED.
4. COORDINATE AND PROVIDE REQUIRED PENETRATIONS AND PATCHING WITH INDIVIDUAL SUBCONTRACTORS TO SUIT NEW WORK.
5. COORDINATE ANY FIRE ALARM AND SECURITY ALARM DISCONNECTS AT COMMON AREA DOORS WITH OWNER.



PROJECT INFORMATION

PROJECT OWNER:
KING COUNTY HOUSING AUTHORITY (KCHA)

PROJECT MANAGER:
DONALD HATFIELD
TEL: (206) 574-1213
EMAIL: DonaldH@kcha.org

PROJECT ADDRESS:
120 W SUNSET WAY
ISSAQUAH, WA 98027

SCOPE DESCRIPTION:
MODERNIZE (1) HYDRAULIC ELEVATOR, REARRANGE EQUIPMENT IN MACHINE ROOM TO COMPLY WITH ELEVATOR CODE, ELECTRICAL IMPROVEMENTS TO BRING ELEVATOR POWER UP TO CURRENT CODE, AND MISCELLANEOUS CUTTING AND PATCHING. THERE ARE NO CODE UPGRADES WITH THIS ELEVATOR MODERNIZATION SUCH AS INCREASING FIRE RATINGS OR OTHER GENERAL WORK.

DESIGN TEAM

ARCHITECT:
SHKS ARCHITECTS
1050 NORTH 38TH ST
SEATTLE, WA 98103
TEL: 206.675.9151
CONTACT: LEVI JETTE
EMAIL: levi@shksarchitects.com

VERTICAL / MECHANICAL ENGINEER:
GREENBUSCH GROUP
1900 W NICKERSON ST
SEATTLE, WA 98119
TEL: 206.378.0569 x112
CONTACT: DYLAN TURNER
EMAIL: dylan@greenbusch.com

ELECTRICAL ENGINEER:
BCE ENGINEERS, INC.
6021 12TH STREET E, SUITE 200
FIFE, WA 98424
TEL: 253.922.0446
CONTACT: BRIAN MALONEY
EMAIL: brian.maloney@bceengineers.com

ZONING ANALYSIS

PARCEL NUMBER
282406-9105

LEGAL DESCRIPTION
POR OF SE 1/4 OF SE 1/4 STR 28-24-06 DAF - BEG 396.00 FT W OF SE COR OF SD SEC TH N 165.00 FT TH W 264.00 FT TH S 165.00 FT TH E 264.00 FT TO BEG LESS POR FOR STREET

LOT AREA
35,640 SF (.82 ACRES)

ZONE
MF-M

CURRENT USE
APARTMENT

YEAR BUILT
1972

(E) BLDG AREA
29,037 SF (GROSS)

(E) LOT COVERAGE
NO CHANGE

HT LIMIT
NO CHANGE

PARKING QUANTITY
NO CHANGE

REQUIRED SETBACKS
NO CHANGE

APPLICABLE CODES

- ISSAQUAH MUNICIPAL CODE
- 2018 INTERNATIONAL BUILDING CODE WITH WASHINGTON STATE AMENDMENTS
- 2018 INTERNATIONAL EXISTING BUILDING CODE WITH WASHINGTON STATE AMENDMENTS
- 2009 ICC A117.1 ACCESSIBILITY REQUIREMENTS
- 2018 INTERNATIONAL MECHANICAL CODE WITH WASHINGTON STATE AMENDMENTS
- 2018 INTERNATIONAL ENERGY CONSERVATION CODE, COMMERCIAL WITH WASHINGTON STATE AMENDMENTS
- 2018 UNIFORM PLUMBING CODE WITH WASHINGTON STATE AMENDMENTS
- 2018 INTERNATIONAL FIRE CODE WITH WASHINGTON STATE AMENDMENTS
- ALL CODES ADOPTED AND AMENDED BY THE STATE BUILDING CODE COUNCIL IN CHAPTER 51 WA
- L&I HEALTH AND SAFETY, RCW 39.75
- WASHINGTON ADMINISTRATIVE CODE, CHAPTER 296-96

1050 N. 38th St.
Seattle, WA 98103
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www.shksarchitects.com



KCHA
EASTRIDGE
HOUSE ELEVATOR
MODERNIZATION

100% CD

120 W SUNSET WAY
ISSAQUAH, WA 98027

Drawn by: MW

Checked: LJ

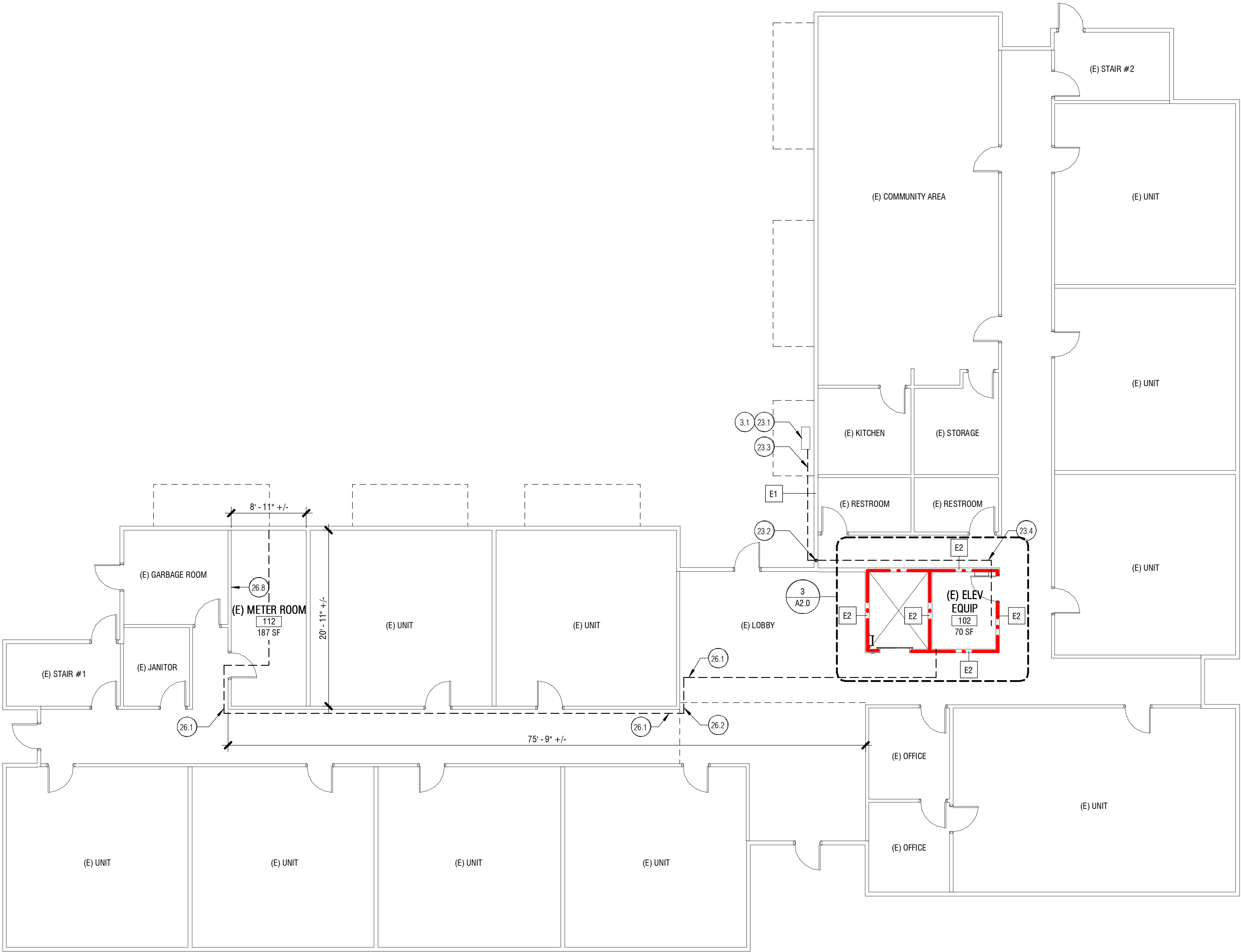
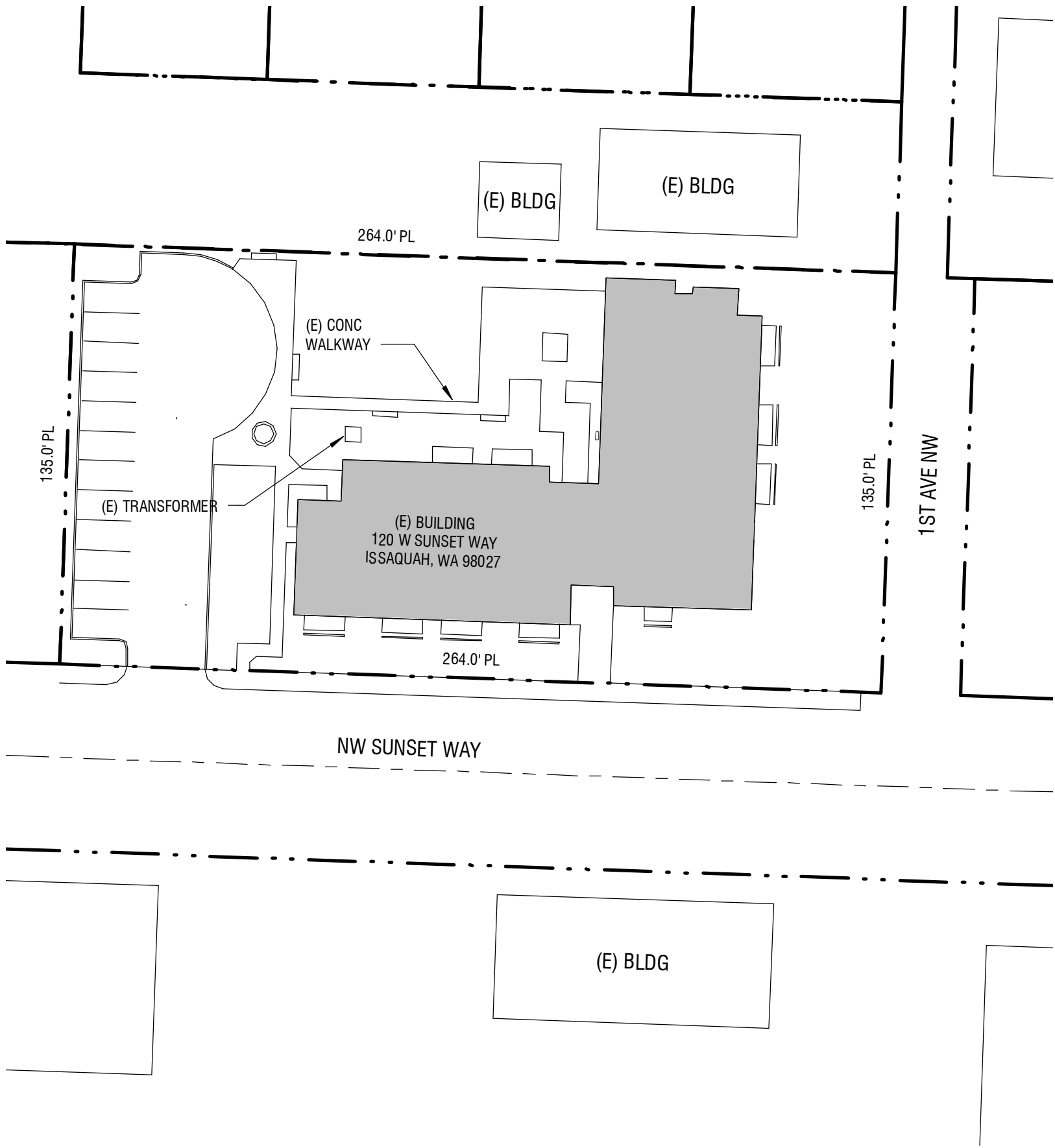
Date: 5/21/2021

Scale: As indicated

Revisions: No. Date Remarks

COVER SHEET

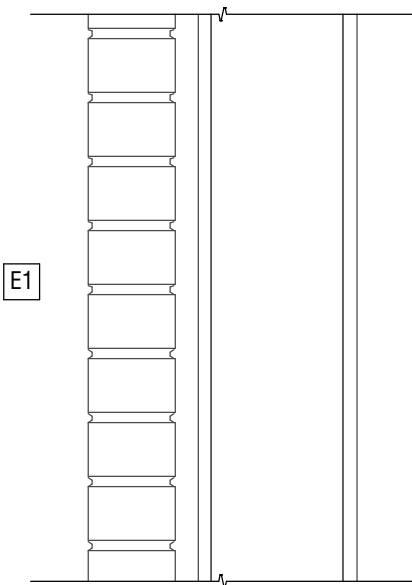
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1 SITE PLAN
1" = 40'-0"

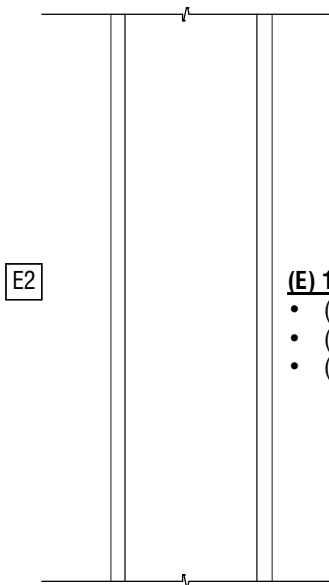
2 FIRST FLOOR PLAN
1/8" = 1'-0"

WALL TYPES



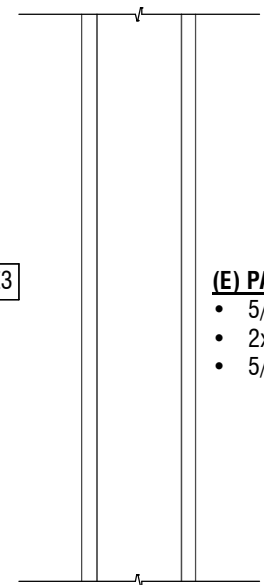
(E) EXTERIOR FRAMED WALL, VIF

- (E) BRICK VENEER
- (E) 1" AIR SPACE
- (E) 1/2" GYP SHEATHING
- (E) 2x6 WD FRAMING @ 16" O.C.
- (E) 5/8" GWB



(E) 1-HOUR SEPARATION WALL, VIF

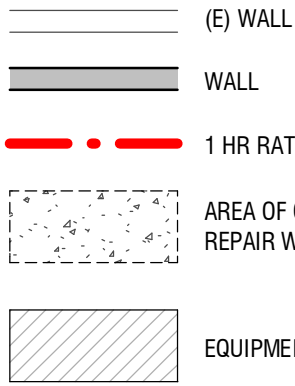
- (E) 5/8" GWB
- (E) 2x6 WD FRAMING @ 16" O.C.
- (E) 5/8" GWB



(E) PARTITION, VIF

- 5/8" GWB
- 2x4 WOOD FRAMING @ 16" O.C.
- 5/8" GWB

LEGEND



GENERAL NOTES:

1. PATCH, REPAIR, AND PAINT INTERIOR GWB DAMAGED DURING CONSTRUCTION.
2. DO NOT DISCONNECT POWER, DATA, AND CABLE DURING CONSTRUCTION.
3. COORDINATE REQUIRED SHUTDOWNS WITH OWNER.

KEYNOTE LEGEND

MARK	KEYNOTE TEXT
3.1	CONCRETE MOUNTING PAD PER HEAT PUMP MFR
23.1	HEAT PUMP, EXTERIOR, REF MECH
23.2	ROUTE REFRIGERANT PIPING VERTICALLY IN STUD BAY, REF MECH
23.3	ROUTE REFRIGERANT PIPING ON EXTERIOR MASONRY, CONCEAL IN SHEET METAL COVER, PAINT BLACK, REF MECH
23.4	ROUTE REFRIGERANT PIPING ABOVE DROP CEILING, REF MECH
26.1	ROUTE CONDUIT ABOVE DROP CEILING, REF ELEC
26.2	ROUTE CONDUIT ABOVE HARD LID, REF ELEC
26.8	MODIFY PANEL PER ELEC

KCHA
EASTRIDGE
HOUSE ELEVATOR
MODERNIZATION

100% CD

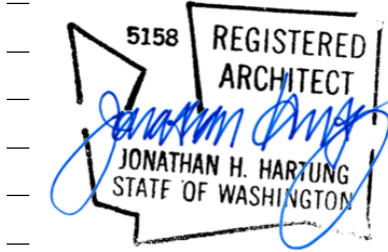
120 W SUNSET WAY
ISSAQUAH, WA 98027

Drawn by: MW
Checked: LJ
Date: 5/21/2021
Scale: As indicated

Revisions:
No. Date Remarks

SITE PLAN &
FLOOR PLAN

A1.0



LEGEND

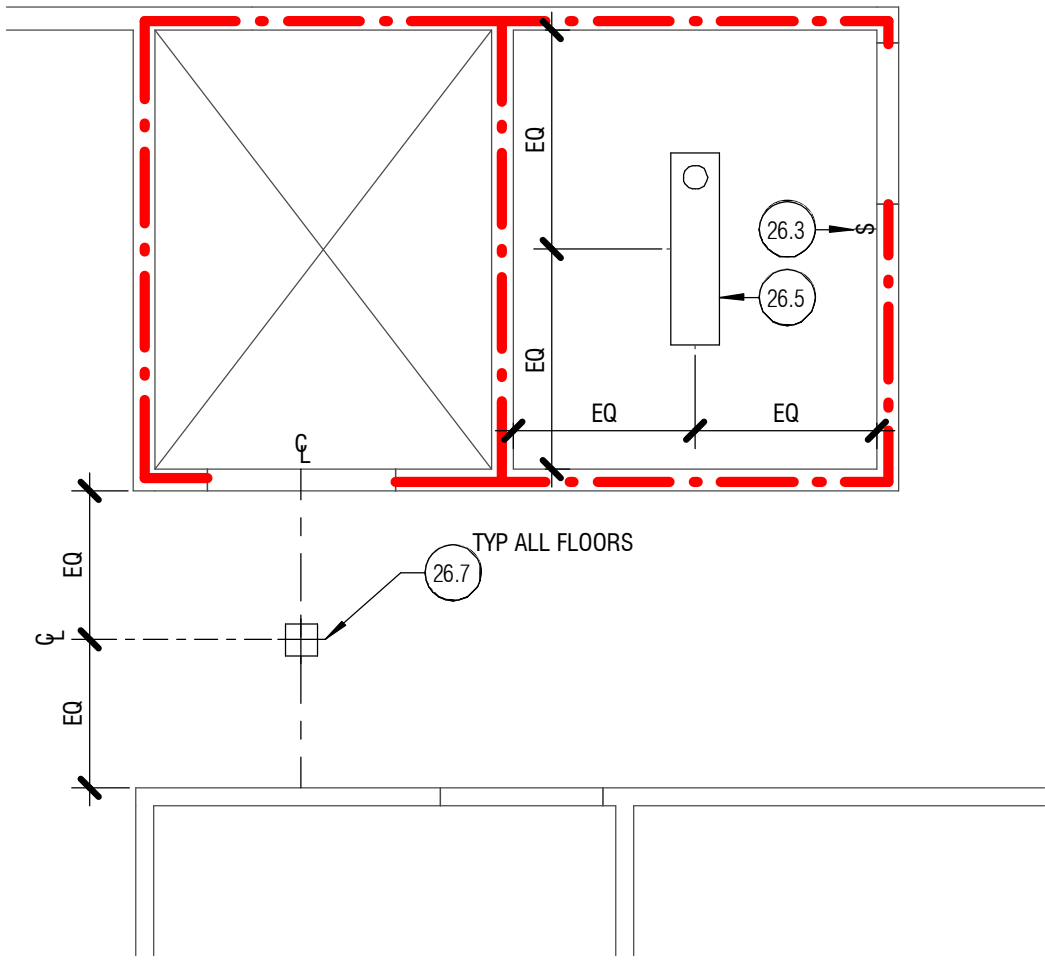
- (E) WALL
WALL
1 HR RATED ASSEMBLY PER CODE, VIF
AREA OF CONC REMOVAL FOR HYDRAULIC JACK REPLACEMENT,
REPAIR W/ VAPOR BARRIER AND INFILL W/ NON-SHRINK GROUT
EQUIPMENT

GENERAL NOTES:

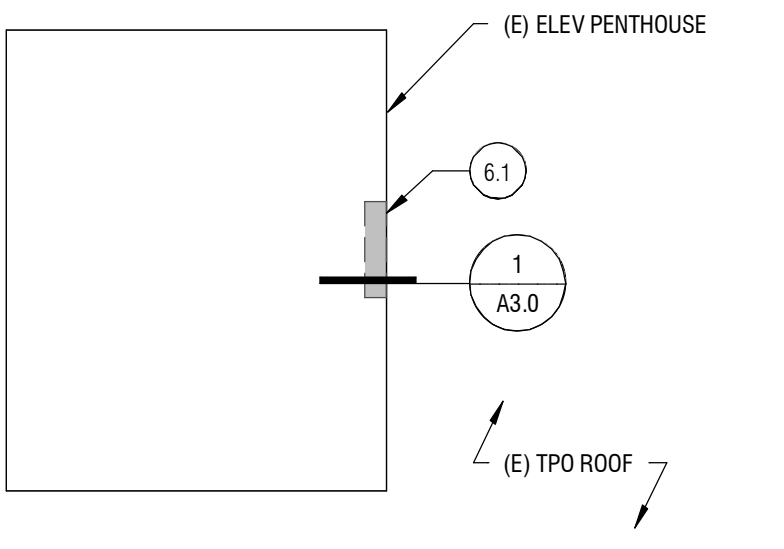
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KEYNOTE LEGEND

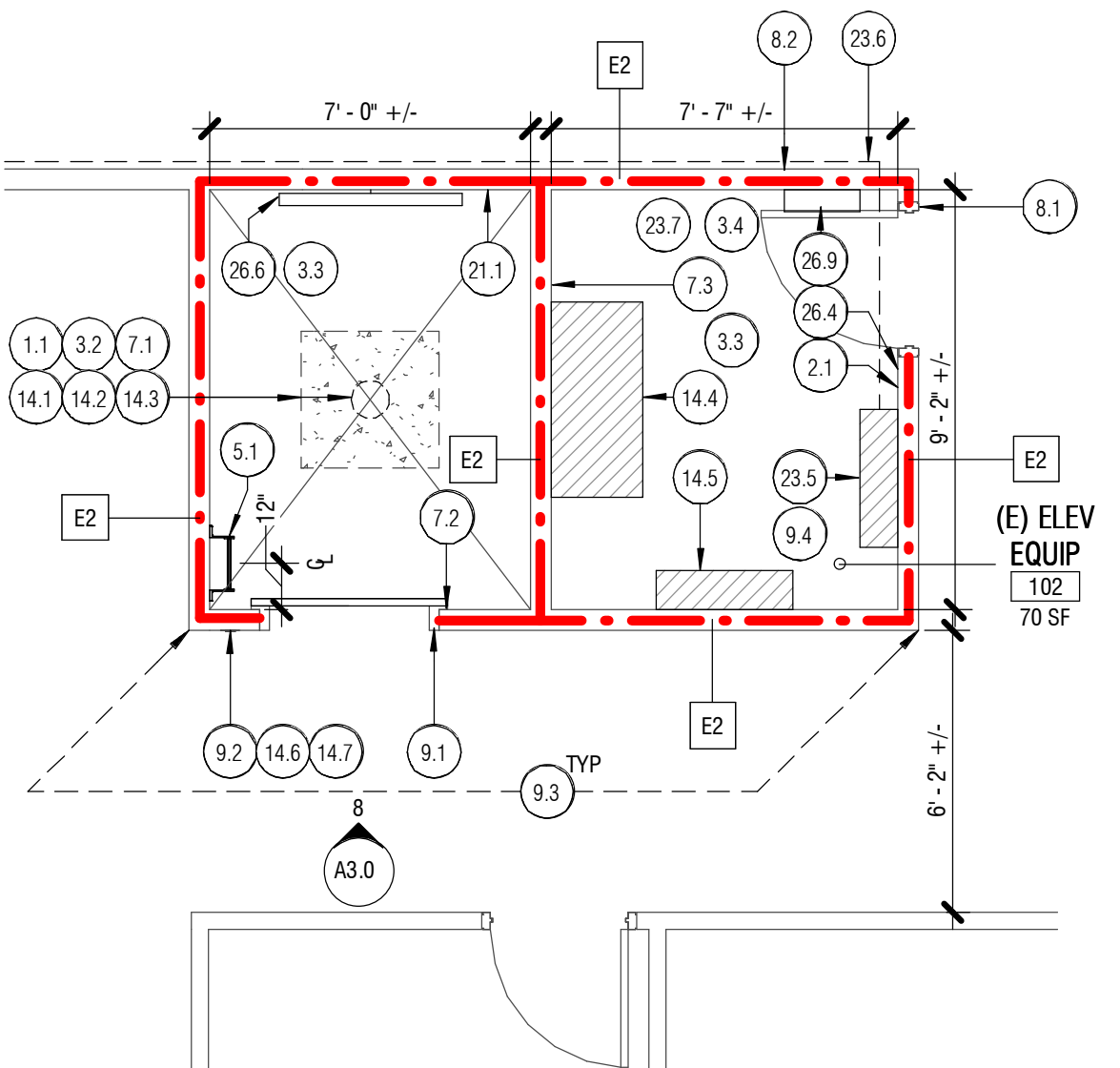
MARK	KEYNOTE TEXT
1.1	ADD ALT 1: REMOVE AND REPLACE SECONDARY CYLINDER CASING, INCLUDE REQUIRED HOURS IN BID, REF MECH
2.1	SALVAGE & REINSTALL (E) FIRE EXTINGUISHER
3.2	INFILL (E) SLAB WITH 3000 PSI NON-SHRINK GROUT, INSTALL HYDROPHILIC WATERSTOP TO SEAL NEW CONCRETE AGAINST (E)
3.3	CAP (E) DRAIN AND SKIM COAT OVER
3.4	CAP (E) CLEANOUT AND SKIM COAT OVER
5.1	METAL PIT LADDER, REMOVE AND REPLACE, CONTRACTOR RESPONSIBLE FOR PROVISION OF CODE COMPLIANT LADDER
6.1	DEMO AND INFILL (E) HOISTWAY WALL VENT, 18" H x 24" W
7.1	REPAIR BELOW-GRADE VAPOR BARRIER DAMAGED BY HYDRAULIC JACK REMOVAL
7.2	PACK HOISTWAY DOOR FRAME WITH FIRESAFE INSULATION AND SEAL WITH FIRESTOP SEALANT ON HOISTWAY SIDE
7.3	SEAL THROUGH PENETRATION WITH PENETRATION FIRESTOP SYSTEM
8.1	REMOVE DOOR & FRAME, REPLACE W/ FIRE RATED HM DOOR & FRAME, 36" x 80" x 1-1/2", 45 MIN RATING, SELF CLOSING AND LOCKING
8.2	REMOVE (E) VALVE ACCESS PANEL IN ELEVATOR MACHINE ROOM, REPLACE W/ ACCESS PANEL IN HALLWAY, APPROX 8" x 8", CONTRACTOR TO COORDINATE FINAL SIZE
9.1	PATCH & SAND SMOOTH, CLEAN, PREP, AND ELECTROSTATIC PAINT AT (E) HOISTWAY DOORS AND FRAMES, COLOR TO MATCH (E)
9.2	PATCH & REPAIR GWB 6" AROUND EACH HALL FIXTURE
9.3	PAINT FULL LENGTH OF WALL, FLOOR TO CEILING, COLOR TO MATCH EXISTING
9.4	APPLY EPOXY-BASED SEAMLESS FLOORING SYSTEM W/ INTEGRAL COVE BASE THROUGHOUT ELEVATOR MACHINE ROOM
14.1	REMOVE & REPLACE ELEVATOR JACK, DO NOT DAMAGE (E) CONCRETE REINFORCING IN REMOVAL OF JACK, REF ELEVATOR
14.2	AFTER REMOVAL OF (E) ELEVATOR JACK, REVIEW CONDITION OF (E) MTL CASING W/ OWNER
14.3	REMOVE & REPLACE CAB INTERIOR, REF ELEVATOR & A3.0
14.4	REMOVE & REPLACE HYDRAULIC POWER UNIT, REF ELEVATOR
14.5	REMOVE & REPLACE CONTROLLER, REF ELEVATOR
14.6	REMOVE & REPLACE ELEVATOR CALL BUTTONS, FIRE SIGNAGE, INTERCOM, PHASE 1 KS, COMM FAILURE, KEY BOX, AND HALL LANTERN W/ POSITION INDICATOR & DIRECTION OF TRAVEL, REF ELEVATOR
14.7	ELEVATOR CALL BUTTONS TO BE ACCESSIBLE IN ACCORDANCE WITH IBC 1101.2 AND ICC A117.1, REF ELEVATOR ACCESSIBILITY REQUIREMENTS A3.0
21.1	EXTEND (E) FIRE SPRINKLER HEAD, REF MECH
23.5	WALL MOUNT HEAT PUMP, INTERIOR, REF MECH
23.6	REFRIGERANT PIPING, CUT AND PATCH AT ALL PENETRATIONS, REF MECH
23.7	THERMOSTAT, REF MECH
26.3	REMOVE & REPLACE LIGHT SWITCH, REF ELEC
26.4	REMOVE & REPLACE DISCONNECT, REF ELEC
26.5	REMOVE & REPLACE LIGHT FIXTURE, REF ELEC
26.6	REMOVE & REPLACE PIT LIGHT & LIGHT SWITCH, REF ELEC
26.7	LIGHT FIXTURE AT ELEVATOR DOOR, REF ELEC
26.9	PANEL, REF ELEC



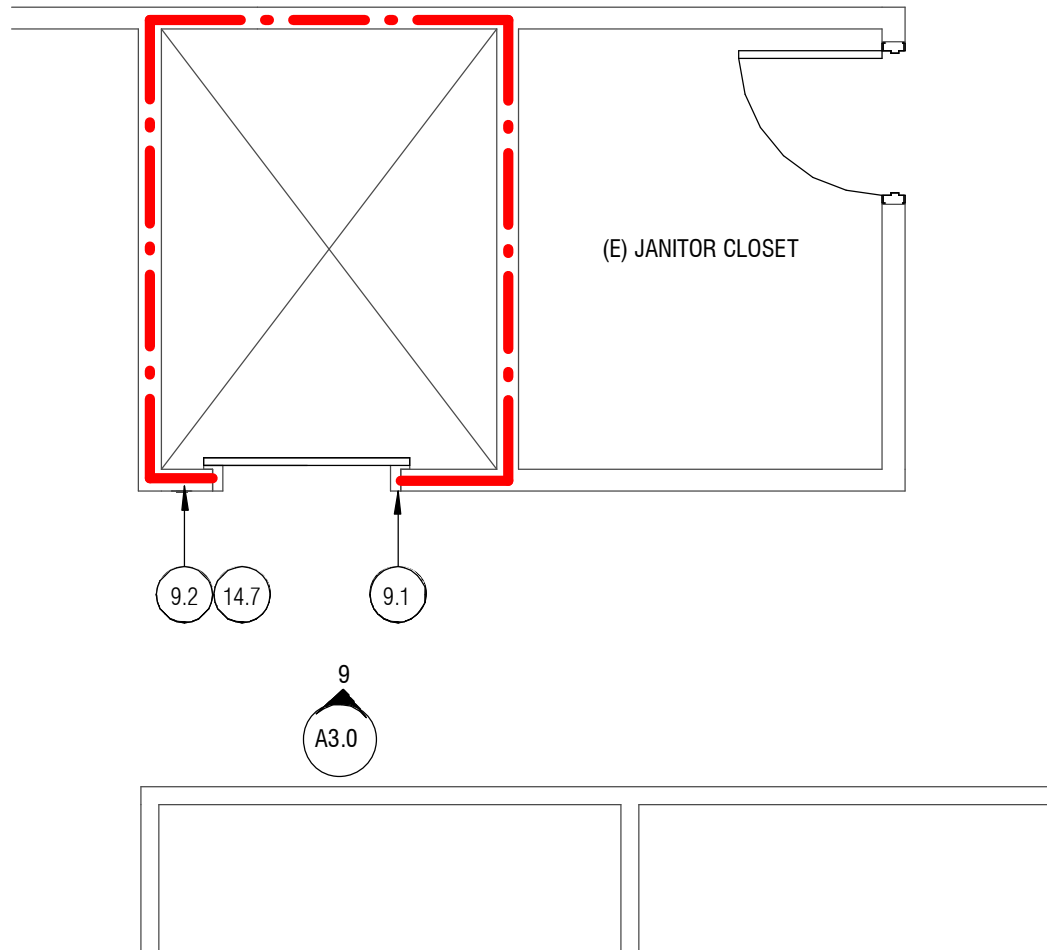
1 ENLARGED FIRST FLOOR RCP
1/4" = 1'-0"



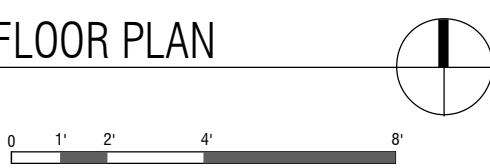
2 ENLARGED ROOF PLAN
1/4" = 1'-0"



3 ENLARGED FIRST FLOOR PLAN
1/4" = 1'-0"



4 ENLARGED SECOND & THIRD FLOOR PLAN
1/4" = 1'-0"



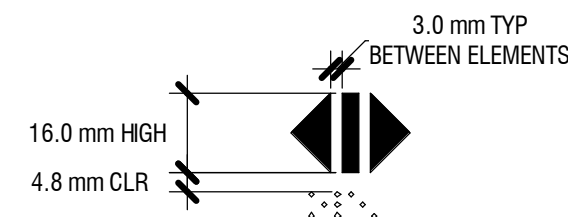
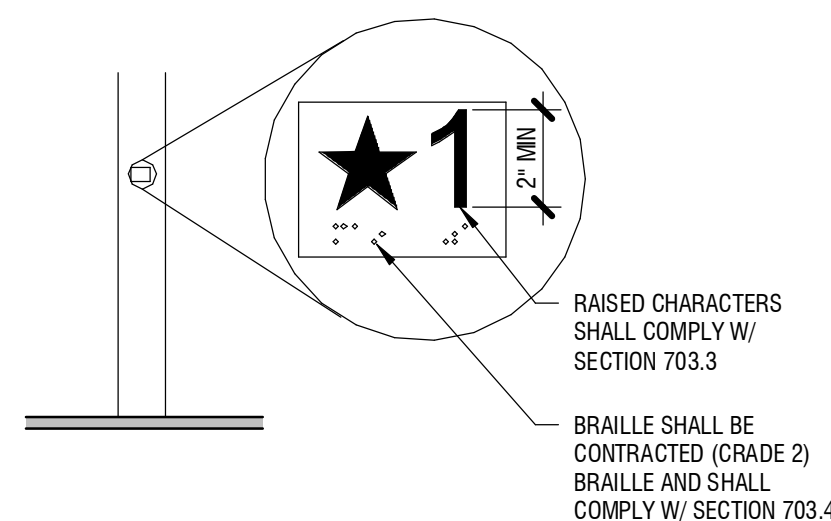
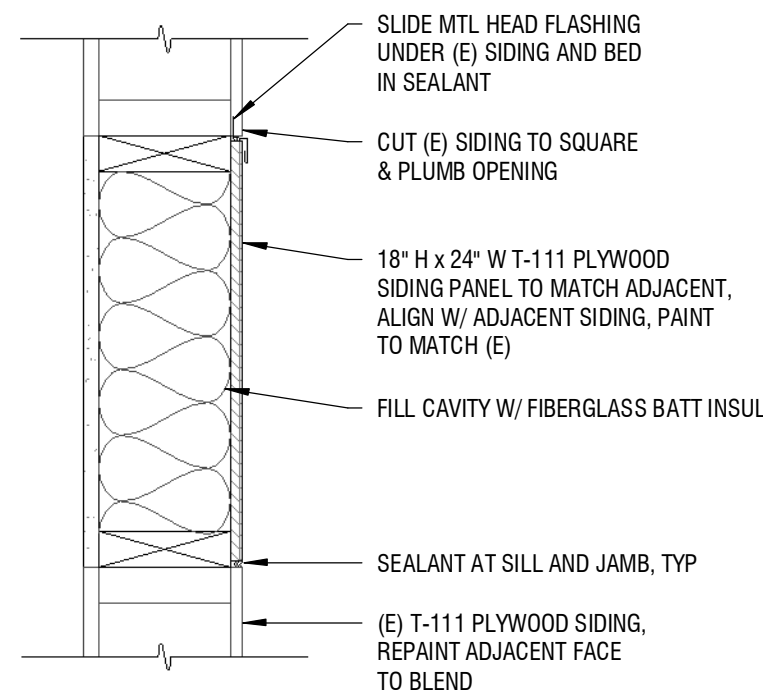


FIGURE 407.2.2.2
VISIBLE HALL SIGNALS

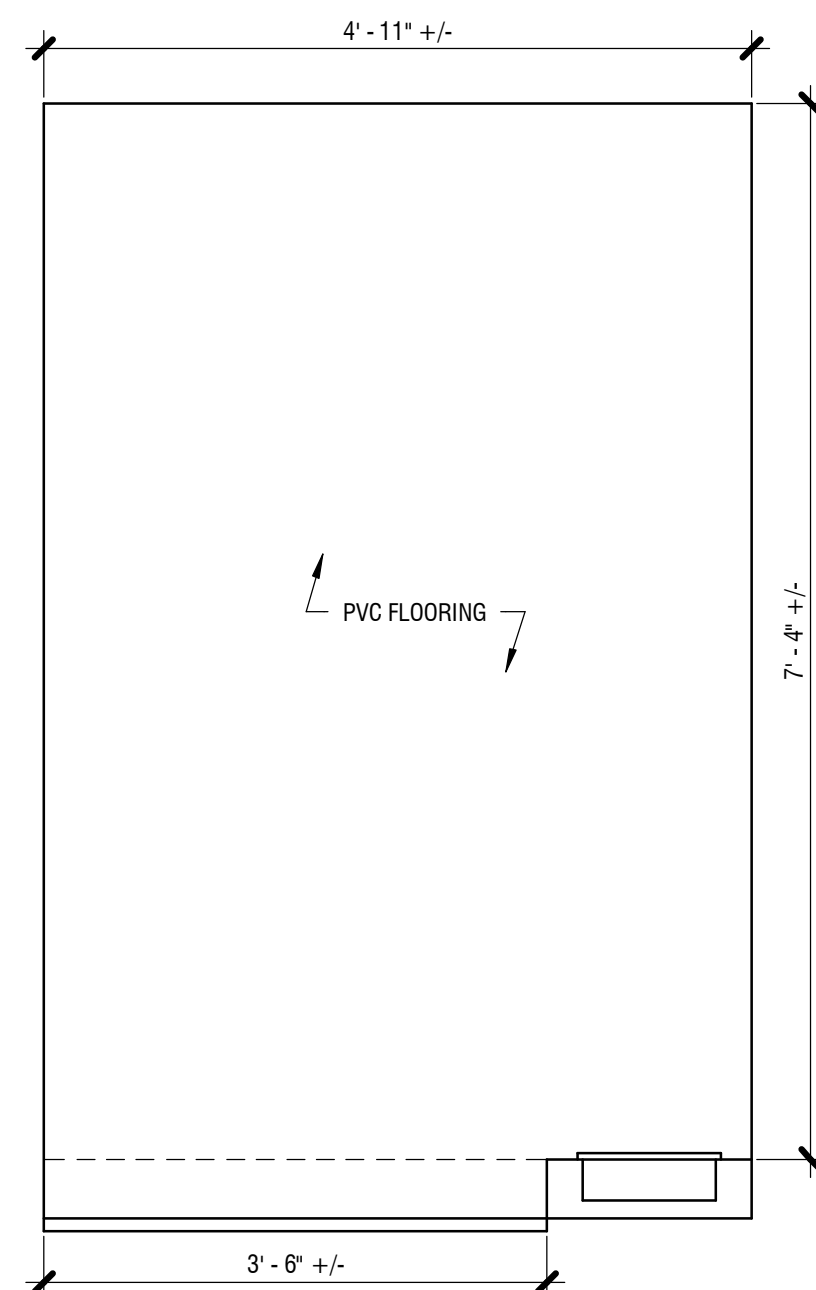
FIGURE 407.2.3.1
FLOOR DESIGNATIONS ON JAMBS OF
ELEVATOR HOISTWAY ENTRANCES

FIGURE 407.4.6.2
ELEVATOR CAR CONTROL BUTTONS

RAISED CHARACTER AND BRAILLE DESIGNATIONS SHALL BE PLACED IMMEDIATELY TO THE LEFT OF THE CONTROL BUTTON TO WHICH THE DESIGNATIONS APPLY.

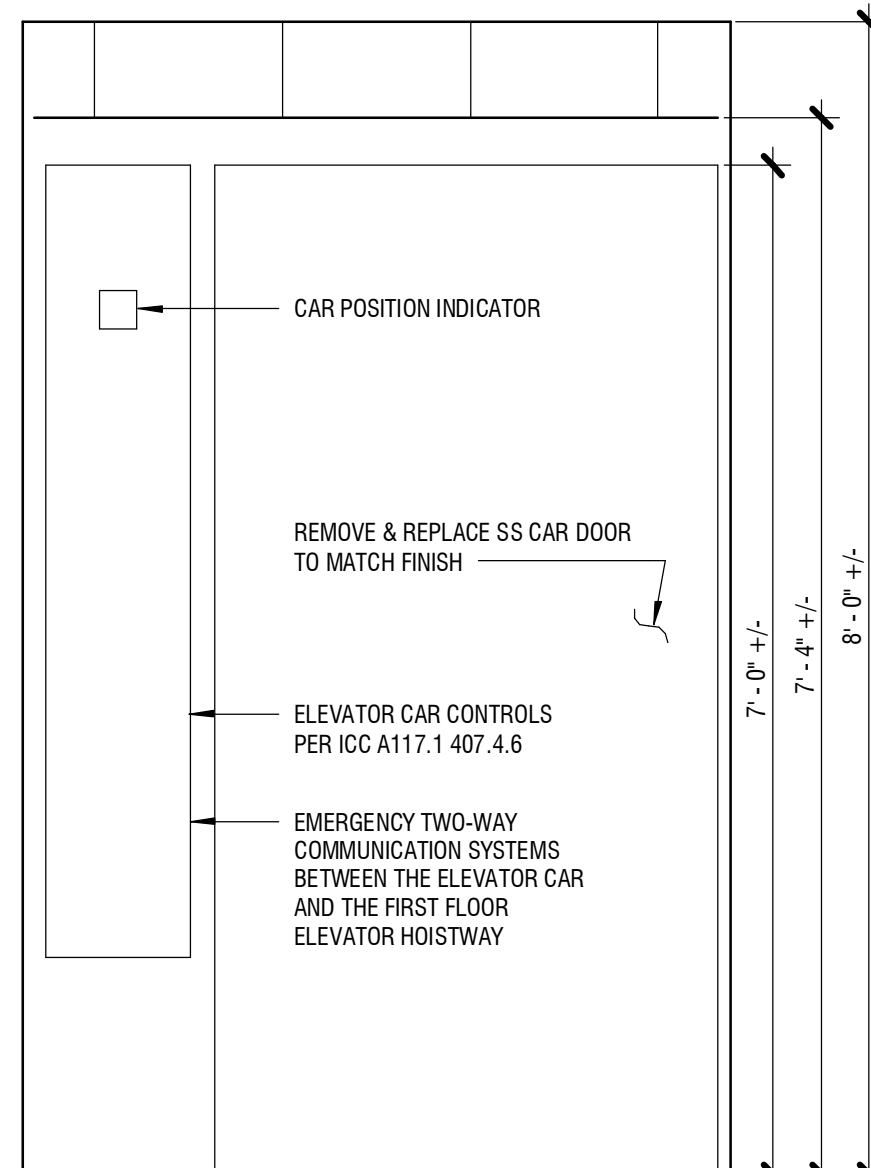
SEE TABLE 407.4.7.1.3 FOR FULL LIST OF
SYMBOLS AND BRAILLE MESSAGES FOR CONTROL
BUTTON IDENTIFICATION

TABLE 407.4.7.1.3
CONTROL BUTTON IDENTIFICATION

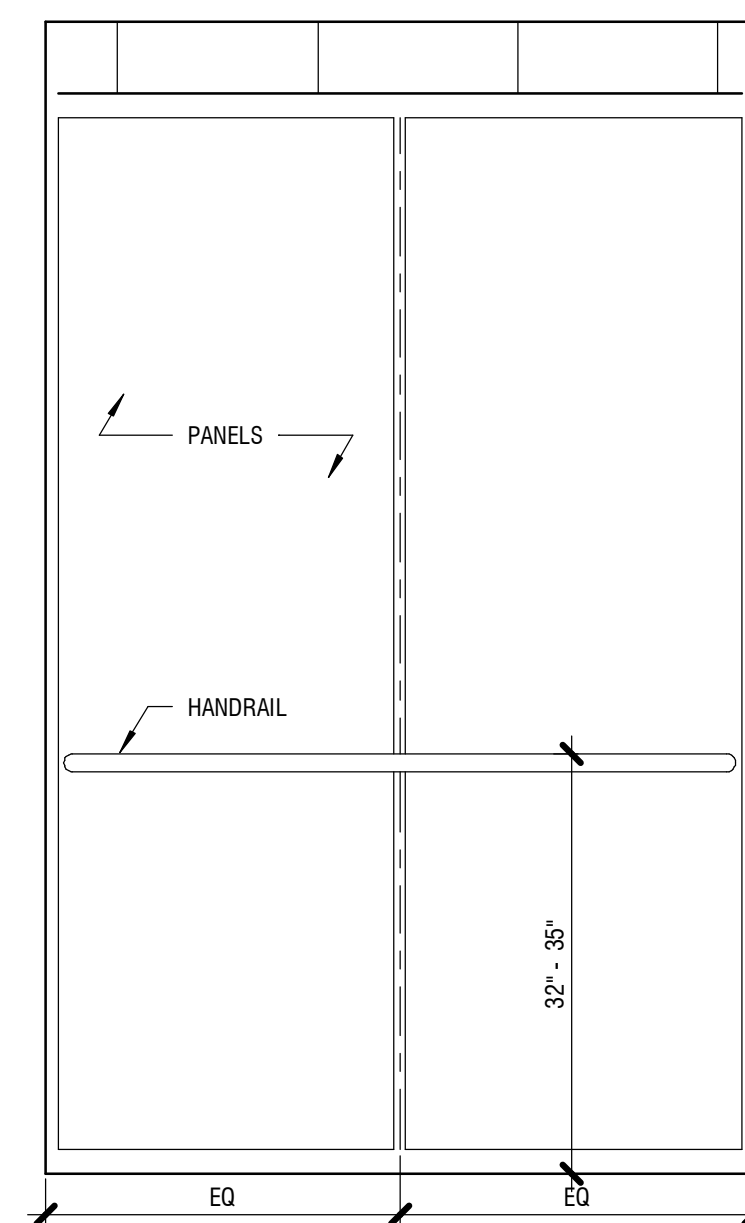
$$1\frac{1}{2}'' = 1'-0''$$


3 CAR INTERIOR RCP
3/4" = 1'-0"

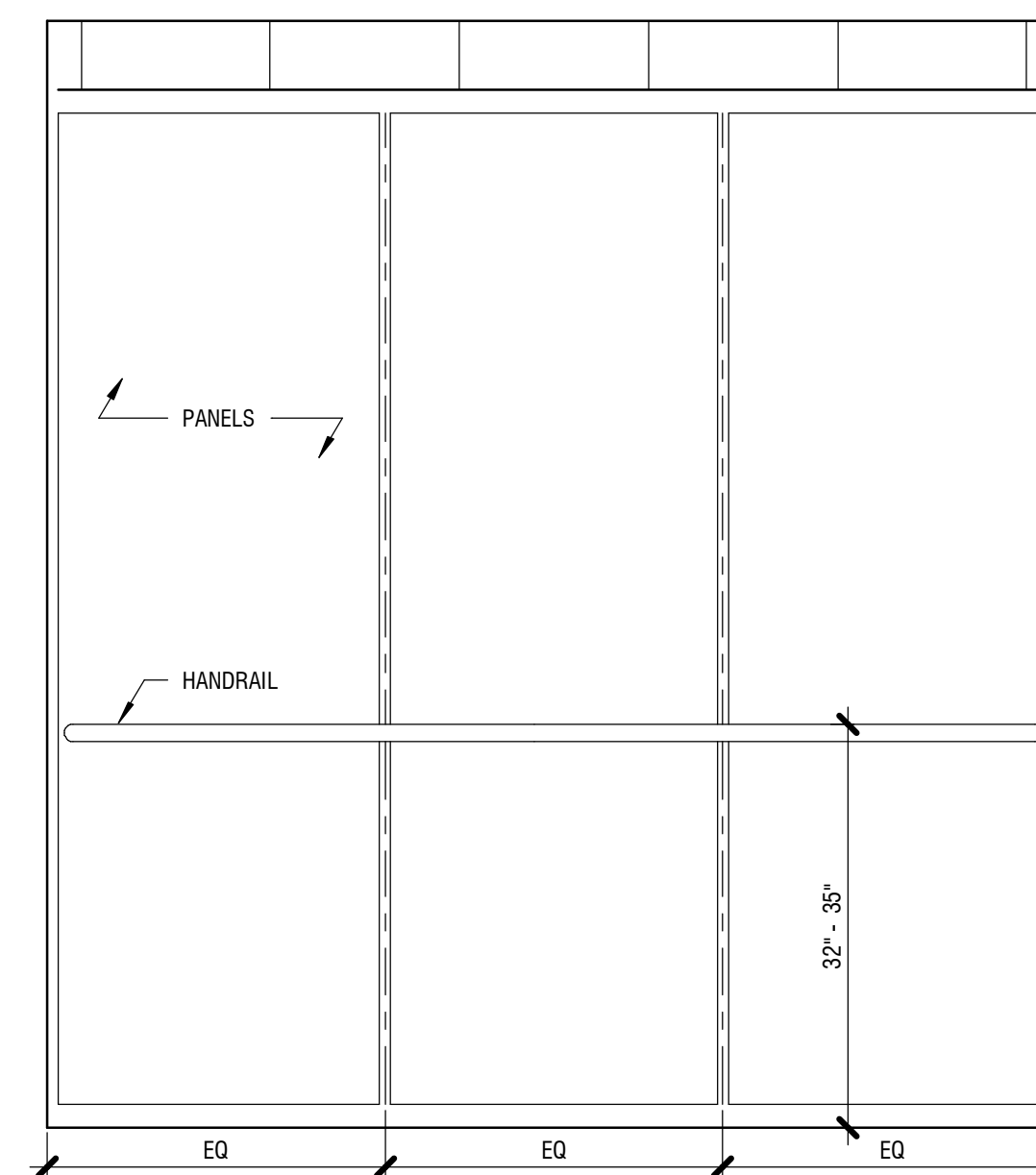
4 CAR FLOOR PLAN
3/4" = 1'-0"



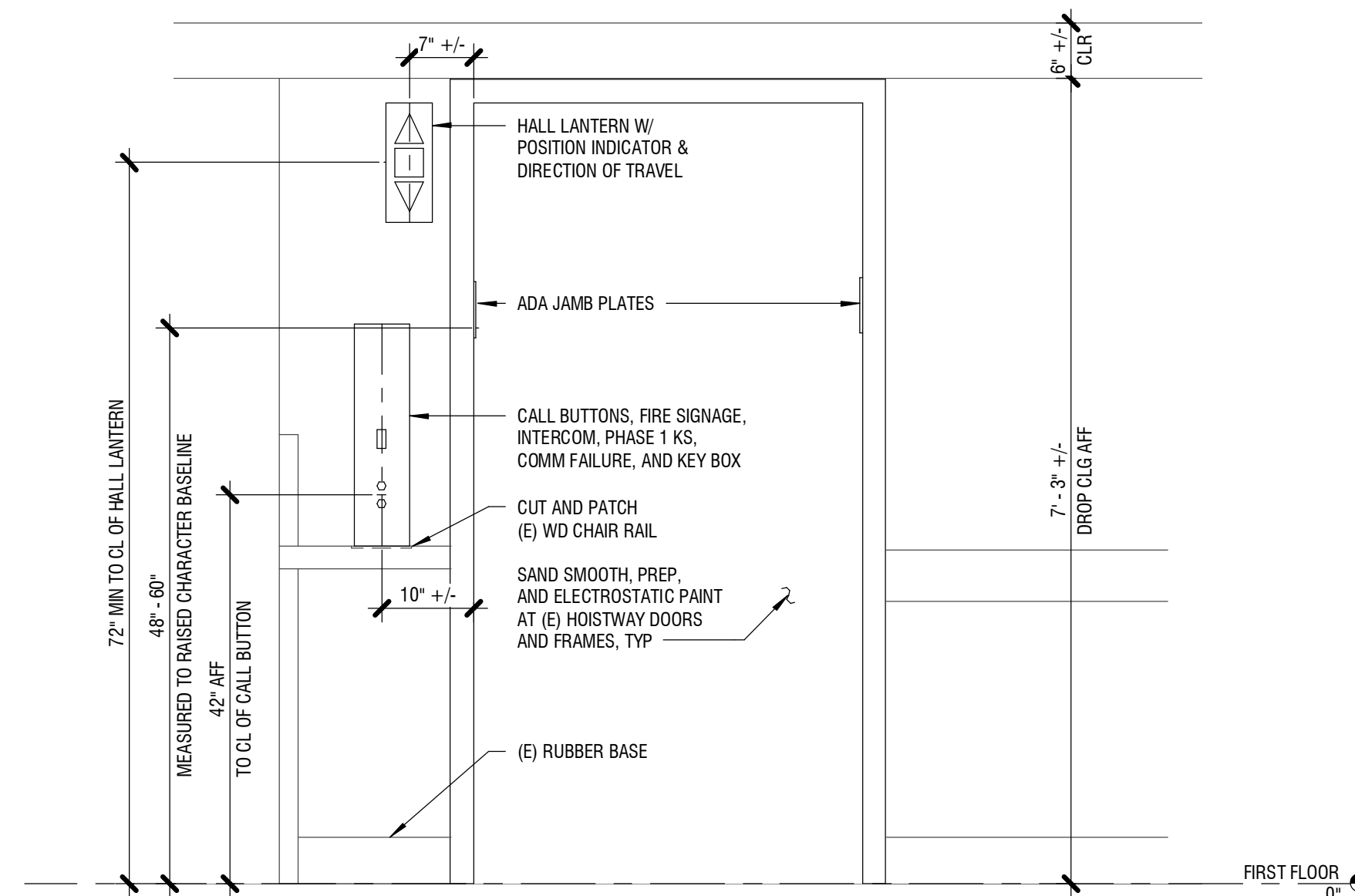
5 CAR INTERIOR - FRONT ELEVATION
3/4" = 1'-0"



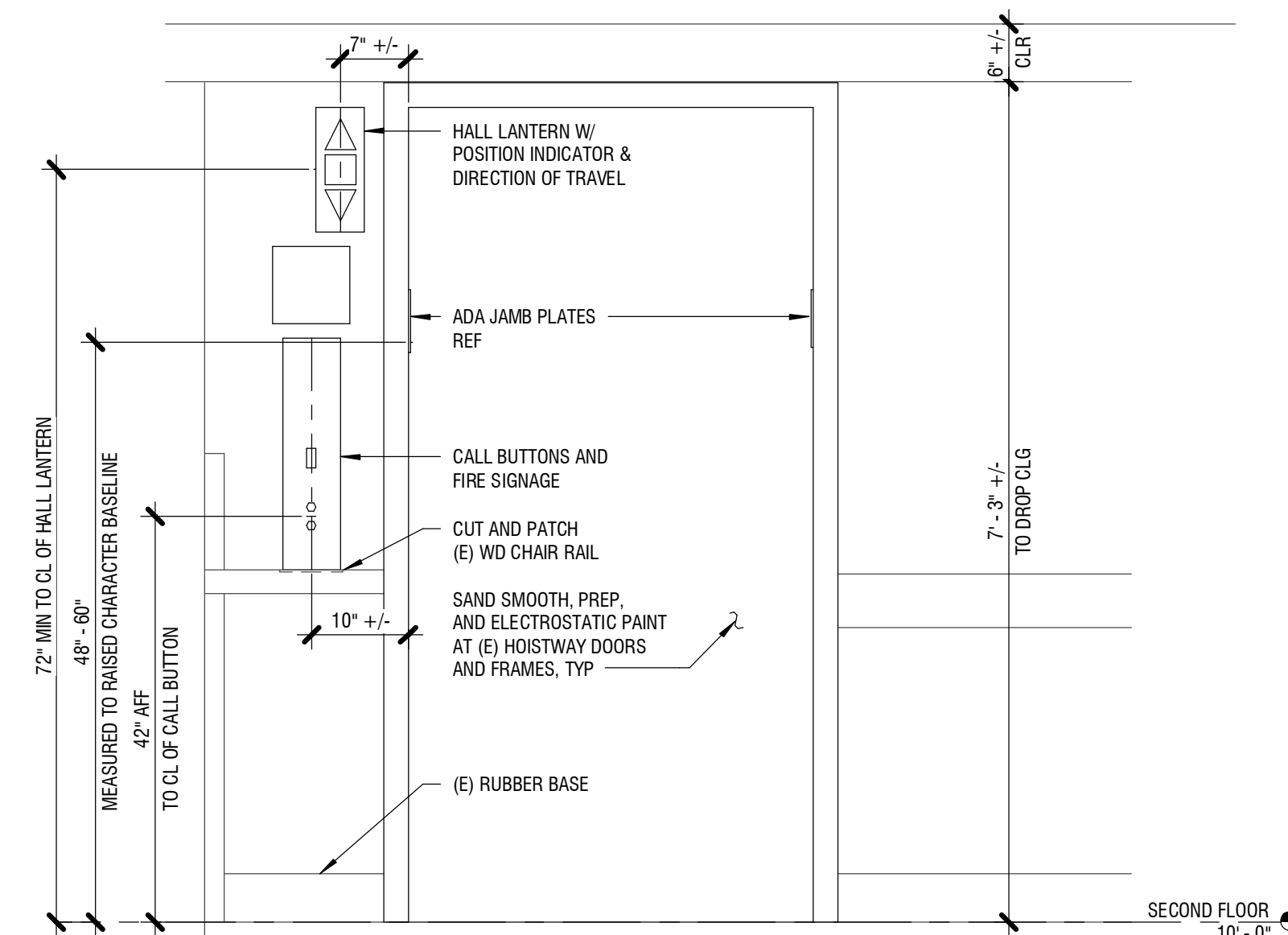
6 CAR INTERIOR - SIDE ELEVATION
3/4" = 1'-0"



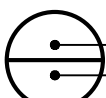




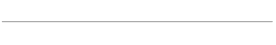




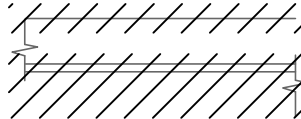

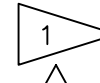


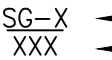
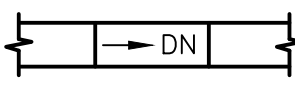
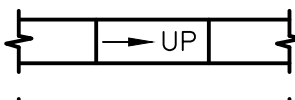
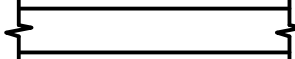
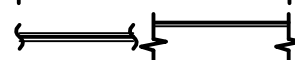
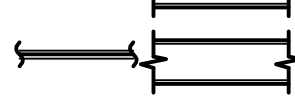
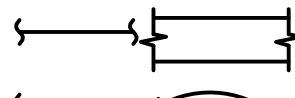
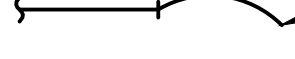
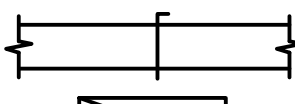




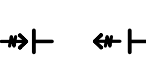


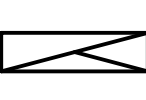
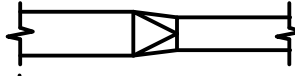
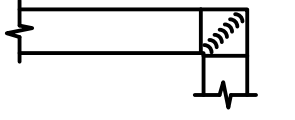

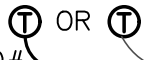
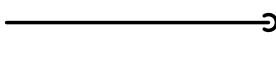
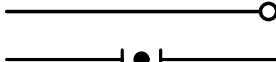





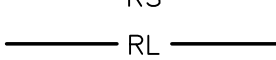
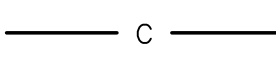


7 CAR INTERIOR - REAR ELEVATION
3/4" = 1'-0"



8 FIRST FLOOR INTERIOR ELEVATION
3/4" = 1'-0"



9 SECOND & THIRD FLOOR INTERIOR ELEVATION
3/4" = 1'-0"

ABBREVIATIONS		LEGEND	
AC	AIR CONDITIONING	<u>SYMBOL</u>	<u>ABBR</u> <u>DESCRIPTION</u>
ACU	AIR CONDITIONING UNIT		DETAIL OR SECTION CALLOUT SHEET WHERE SECTION OR DETAIL SHOWN
AD	ACCESS DOOR		DIRECTION OF CUTTING PLANE SECTION CUT LINE
AFF	ABOVE FINISHED FLOOR		DIRECTION OF FLOW
APPROX	APPROXIMATE	 OR 	EQUIPMENT ITEM XX
ARCH	ARCHITECT		LINE, ARCHITECTURAL BACKGROUND
ASHRAE	AMERICAN SOCIETY OF HEATING, REFRIGERATION AND AIR CONDITIONING ENGINEERS		LIGHT LINE, EXISTING
BDD	BACKDRAFT DAMPER		HEAVY LINE, NEW WORK
BFF	BELOW FINISHED FLOOR		ROUND DUCT DIAMETER
BTUH	BRITISH THERMAL UNITS PER HOUR		X PLAN OR HORIZONTAL DIMENSION Y ELEVATION OR VERTICAL DIMENSION
CD	CEILING DIFFUSER		EXISTING WORK TO BE REMOVED
CFM	CUBIC FEET PER MINUTE		BREAK IN PIPE OR DUCTWORK
CIRC	CIRCULATING		FLAG NOTE
CO	CLEAN OUT		REVISION NOTE
COND	CONDENSATE		AREA CLOUDED CONTAINS CHANGES TO DRAWINGS SUBSEQUENT TO PREVIOUS ISSUE
CONT	CONTINUATION		DIFFUSER, REGISTER OR GRILLE CALL OUT CFM AMOUNT
COORD	COORDINATE		DN DUCT OFFSET DOWN IN FLOW DIRECTION
COTG	CLEAN OUT TO GRADE		UP DUCT OFFSET UP IN FLOW DIRECTION
CW	COLD WATER		DUCT WITHOUT INSULATION
DEG	DEGREE		INSULATED DUCT
DIA	DIAMETER		UNDERGROUND OR ATTIC DUCT W/ INSULATION
DIM	DIMENSION		ALTERNATE DUCT
DN	DOWN		DUCT FLEX CONNECTION
DWG	DRAWING		VD VOLUME DAMPER
E EA	EXISTING, EACH, EXHAUST AIR		RA/EA RETURN AIR OR EXHAUST AIR DUCT
ELEV, EL	ELEVATION		RG RETURN AIR GRILLE
EAT	ENTERING AIR TEMPERATURE		SA SUPPLY AIR OUTLET, SIDEWALL
EG	EXHAUST GRILLE		SA SUPPLY AIR DUCT
ESP	EXTERNAL STATIC PRESSURE		RA/EA RETURN AIR OR EXHAUST AIR DUCT
EWT	ENTERING WATER TEMPERATURE		SD SUPPLY GRILLE OR DIFFUSER OPEN AREA INDICATED ACTIVE ELEMENTS (4 WAY IF HATCH IS NOT SHOWN)
EXIST	EXISTING		LINEAR DIFFUSER
EXH	EXHAUST		EA EXHAUST AIR DUCT, EXHAUST AIR GRILLE
EXP	EXPANSION		TRANSITION – RECTANGULAR TO ROUND
F	FAHRENHEIT		RECTANGULAR ELBOW WITH TURNING VANES
FCO	FLOOR CLEANOUT		SWITCH
FD	FIRE DAMPER, FLOOR DRAIN		THERMOSTAT EQUIP ID#
FDC	FIRE DEPARTMENT CONNECTION		PIPE/DUCT ELBOW DOWN
FLA	FULL LOAD AMPS		PIPE/DUCT ELBOW UP
FPM	FEET PER MINUTE		BALL VALVE
FT	FOOT, FEET		APPLIANCE REGULATOR
G	NATURAL GAS		TWO WAY VALVE
GA	GAUGE		DIRT LEG
GAL	GALLONS		CLEARANCE REQUIREMENT
GALV	GALVANIZED		RS REFRIGERANT SUCTION PIPING
GPM	GALLONS PER MINUTE		RL REFRIGERANT LIQUID PIPING
GWB	GYPSON WALL BOARD		C CONDENSATE PIPING
HP	HORSEPOWER		ROOM CALL OUT
HVAC	HEATING, VENTILATION AND AIR CONDITIONING		
HW	HOT WATER		
HWC	HOT WATER CIRCULATION		
HWR	HOT WATER RETURN		
HWS	HOT WATER SUPPLY		
ID	INDIRECT DRAIN, INSIDE DIAMETER		
IE	INVERT ELEVATION		
IN	INCH		
KW	KILOWATT (1000 WATTS)		
LAT	LEAVING AIR TEMPERATURE		
LWT	LEAVING WATER TEMPERATURE		
MAX	MAXIMUM		
MBH	1000 BTU PER HOUR		
MCA	MINIMUM CIRCUIT AMPS		
MFG	MANUFACTURER		
MIN	MINIMUM		
MTG	MOUNTING		
NC	NORMALLY CLOSED		
NIC	NOT IN CONTRACT		
NFPA	NATIONAL FIRE PROTECTION ASSOCIATION		
NG	NATURAL GAS		
NO	NORMALLY OPEN		
NTS	NOT TO SCALE		
OA	OUTSIDE AIR		

DRAWING INDEX

M0.1MECHANICAL COVER SHEET, DETAILS AND SCHEDULE

MD2.1MECHANICAL DEMOLITION FLOOR PLANS

M2.1MECHANICAL FLOOR PLANS

EVD2.1ELEVATOR LANDING AND MACHINE ROOM ELEVATOR DEMOLITION FLOOR PLANS

EV2.1ELEVATOR LANDING AND MACHINE ROOM ELEVATOR FLOOR PLANS

EV2.2ELEVATOR DIAGRAMS

GENERAL NOTES

1. THE MECHANICAL SYSTEM SHALL CONSIST OF ALL WORK SHOWN ON THE DRAWINGS, INCLUDING PLANS, DIAGRAMS, DETAILS, ETC., AND ALL WORK AS IDENTIFIED IN THE SPECIFICATIONS. WORK INCLUDES FURNISHING, INSTALLING SYSTEM, INTEGRATION, TESTING, TRAINING AND WARRANTY OF THE MECHANICAL SYSTEMS AS SHOWN AND SPECIFIED. PROVIDE A COMPLETE AND OPERABLE MECHANICAL SYSTEM COMPLETE WITH ALL MECHANICAL WORK AS REQUIRED FOR SYSTEM OPERATION.

2. THE DESIGN OF MECHANICAL SYSTEMS HAS BEEN BASED UPON THE EQUIPMENT AS MANUFACTURED BY THE MANUFACTURERS LISTED ON THE EQUIPMENT SCHEDULE. EQUIPMENT NAMED IN THE SPECIFICATIONS MAY BE SUBSTITUTED PROVIDED THAT THE EQUIPMENT MEETS OR EXCEEDS ALL SCHEDULED AND SPECIFIED CRITERIA, AND HAS THE WRITTEN APPROVAL OF THE ENGINEER. COORDINATE THE INSTALLATION WITH ALL TRADES AND GUARANTEE IN WRITING THAT NO ADDITIONAL COST WILL BE INCURRED DUE TO PRODUCT SUBSTITUTION.

3. CONTRACTOR SHALL FIELD VERIFY ALL BUILDING AND SITE DIMENSIONS BEFORE BEGINNING CONSTRUCTION OR ORDERING EQUIPMENT. DO NOT SCALE FROM PLANS.

4. INSULATION SHALL MEET WASHINGTON STATE ENERGY CODE (WSEC).

5. PENETRATIONS THROUGHOUT 2-HOUR FIRE RATED WALLS, PARTITIONS, CEILINGS AND ROOF ASSEMBLIES SHALL RECEIVE 2-HOUR FIRE STOP RATED UL APPROVED SEALANT FROM INSIDE AND WEATHER RESISTANT SEALANT FROM OUTSIDE.

6. PROVIDE ALL REQUIRED ELECTRICAL POWER, AND CONTROL INTERFACE AND CONNECTIONS AS REQUIRED FOR SYSTEM OPERATION. COORDINATE REQUIREMENTS WITH THE ELECTRICAL CONTRACTOR.

7. PROVIDE ALL REQUIRED EQUIPMENT GUARDS AND STRUCTURAL SUPPORT AS RECOMMENDED BY EQUIPMENT MANUFACTURERS TO SUPPORT EQUIPMENT AND TO ASSURE SYSTEM PERFORMANCE AND SAFE OPERATION. COORDINATE PRIOR TO INSTALLATION. PROVIDE ACCESS PANELS AS REQUIRED TO MAINTAIN EQUIPMENT, ACCESS VALVES AND DAMPER OPERATORS.

8. PROVIDE UNIT SUPPORT PER MANUFACTURERS RECOMMENDATIONS. BUILDING AND STRUCTURE IS DESIGNED TO SUPPORT EQUIPMENT, BUT NOT DETAILED TO ACCOMMODATE EACH AVAILABLE EQUIPMENT CONFIGURATION OR MANUFACTURER. CONTRACTOR SHALL PROVIDE MATERIALS AND SERVICES INCLUDING BUT NOT LIMITED TO, ADDITIONAL STEEL, SUPPORT BRACKETS, HANGERS, ACCESSORIES, AND STRUCTURAL ENGINEERING AS REQUIRED TO SUPPORT EQUIPMENT.

9. PROVIDE FRAMING, CUTTING, BLOCKING AND PATCHING AS REQUIRED.

HP-1 LOAD CALCULATION

ELEVATOR MOTOR = 30HP
HOURLY DUTY CYCLE = 12%
WATTS PER MOTOR HP = 746 WATTS
SENSIBLE/TOTAL COOLING RATIO = 69%

SENSIBLE HEAT GAIN = 30HP x 746W/HP x 12% x 3.413(BTU/H)/W =

9,166 BTU/H

SENSIBLE

GROSS TOTAL COOLING LOAD = 9,166(BTU/H)/69% =

13,284 BTU/H TOTAL

HP-1 TOTAL COOLING PROVIDED =

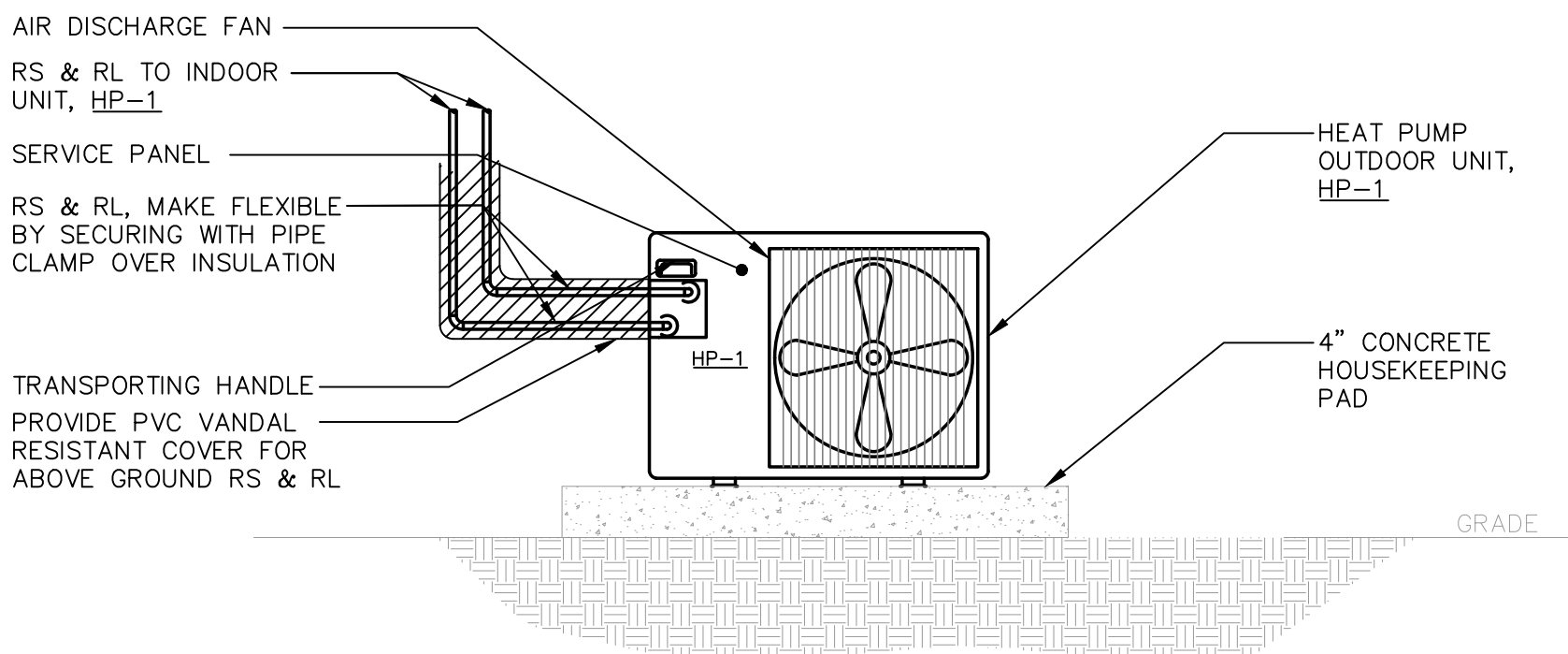
18,000 BTU/H TOTAL

HEAT PUMP UNIT SCHEDULE

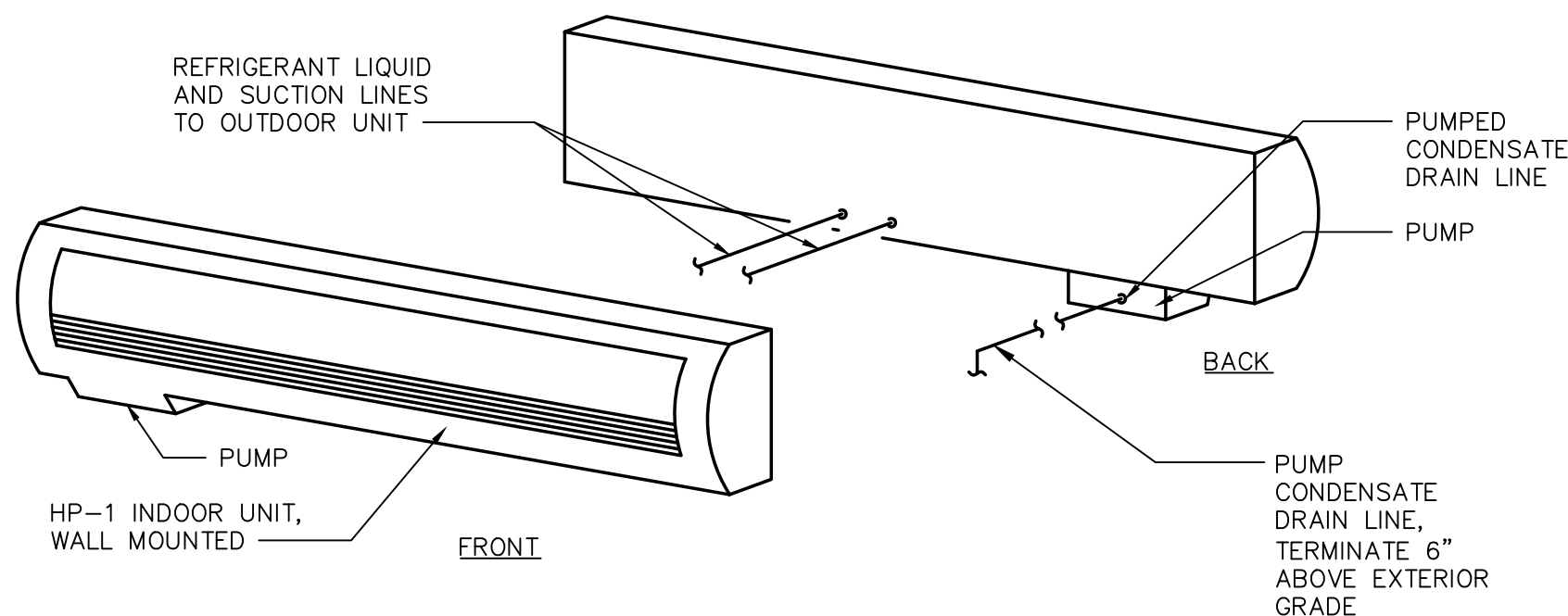
MARK	CFM	EXT. STATIC PRES.	COOLING NOMINAL BTUH	HEATING NOMINAL BTUH	SEER	WEIGHT, LBS.	ELECTRICAL			DESCRIPTION	
							MCA	MOCP	VOLT		PHASE
HP-1	700	0.0"	18,000 INDOOR	19,000 INDOOR	15.3	29	1	20	208/ 230	1	MITSUBISHI MS WALL-MOUNTED LINE KIT, COND MOUNTED THER
			OUTDOOR	OUTDOOR	15.3	91	13		208/ 230	1	MUZ-HM18NA

NOTES:

1. ECONOMIZER NOT REQUIRED PER WSEC PART C403.5, EXCEPTION 11.

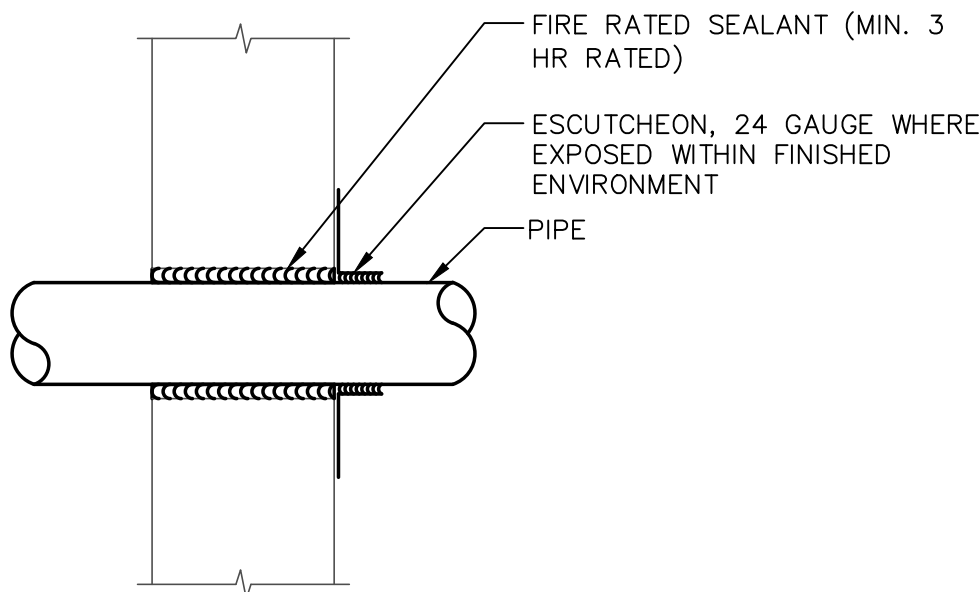


1 HP-1 OUTDOOR UNIT INSTALLATION DETAIL



2 HP-1 INDOOR UNIT INSTALLATION DETAIL

SCALE: NTS



3 PIPE THROUGH WALL DETAIL

SCALE: NTS

MARK	CFM	EXT. STATIC PRES.	COOLING NOMINAL BTUH	HEATING NOMINAL BTUH	SEER	WEIGHT, LBS.	ELECTRICAL				DESCRIPTION
							MCA	MOCp	VOLT	PHASE	
HP-1	700	0.0"	18,000 INDOOR	19,000 INDOOR	15.3	29	1	20	208/230	1	MITSUBISHI MSZ-HM18NA OR ACCEPTED EQUAL, WALL-MOUNTED INDOOR UNIT, WITH REFRIGERANT LINE KIT, CONDENSATE PUMP AND WALL-MOUNTED THERMOSTAT.
			OUTDOOR	OUTDOOR	15.3	91	13		208/230	1	MUZ-HM18NA

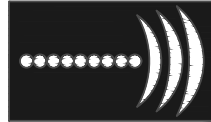
NOTES:

1. ECONOMIZER NOT REQUIRED PER WSEC PART C403.5, EXCEPTION 11.

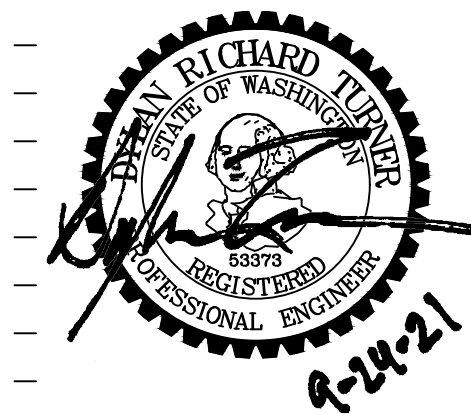
NOTES:
1. ECONOMIZER NOT REQUIRED PER WSEC PART C403.5, EXCEPTION 11.

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THE GREENBUSCH GROUP, INC.



ACOUSTICAL, AUDIO / VIDEO & MECHANICAL ENGINEERING
1900 WEST NICKERSON STREET SUITE 201 SEATTLE, WA 98119
(206) 378-0569 (206) 378-0641 FAX



KCHA
EASTRIDGE
HOUSE ELEVATOR
MODERNIZATION

100% CD

120 W SUNSET WAY
ISSAQUAH, WA 9802

Drawn by: EO

Checked: _____ RF _____

Date: 05/21/2021

Scale: As indicated

— Revisions:

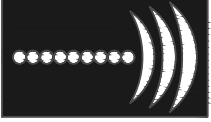
	<u>No.</u>	<u>Date</u>	<u>Remark</u>
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- MECHANICAL COVER
- SHEET, DETAILS AND
- SCHEDULE

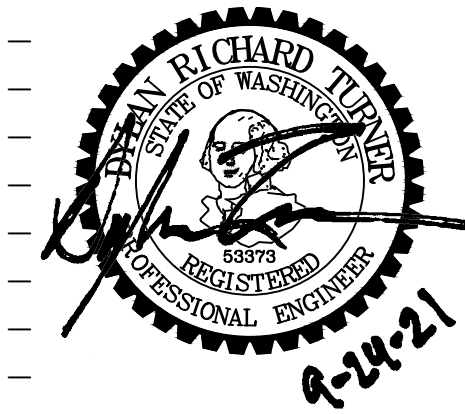
M0.1

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KCHA
EASTRIDGE
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MODERNIZATION

100% CD

120 W SUNSET WAY
ISSAQUAH, WA 98027

Drawn by: EO
Checked: RF
Date: 05/21/2021
Scale: As indicated

Revisions:
No. Date Remarks

MECHANICAL
DEMOLITION
FLOOR PLANS

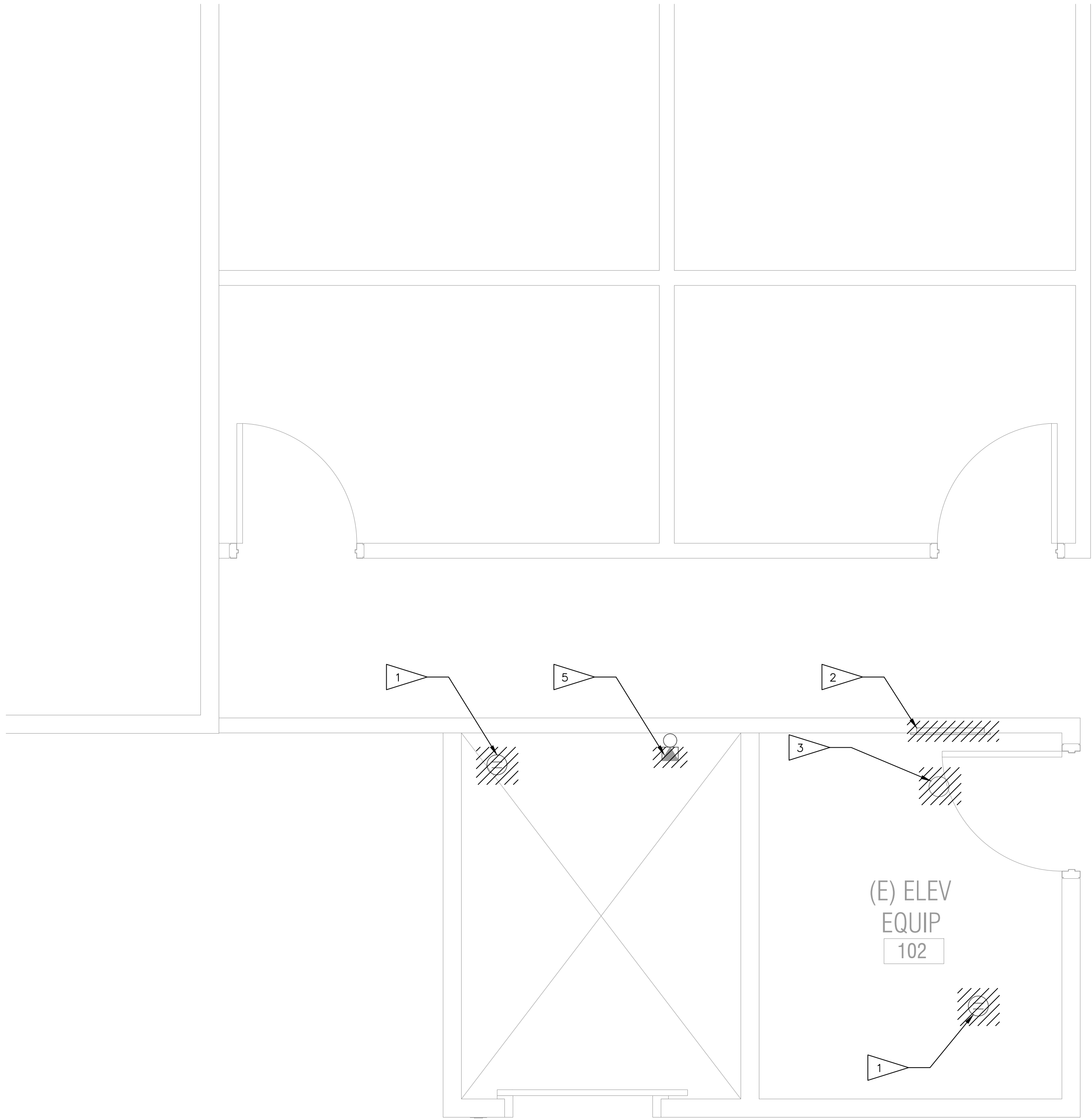
MD2.1

GENERAL DEMOLITION NOTES:

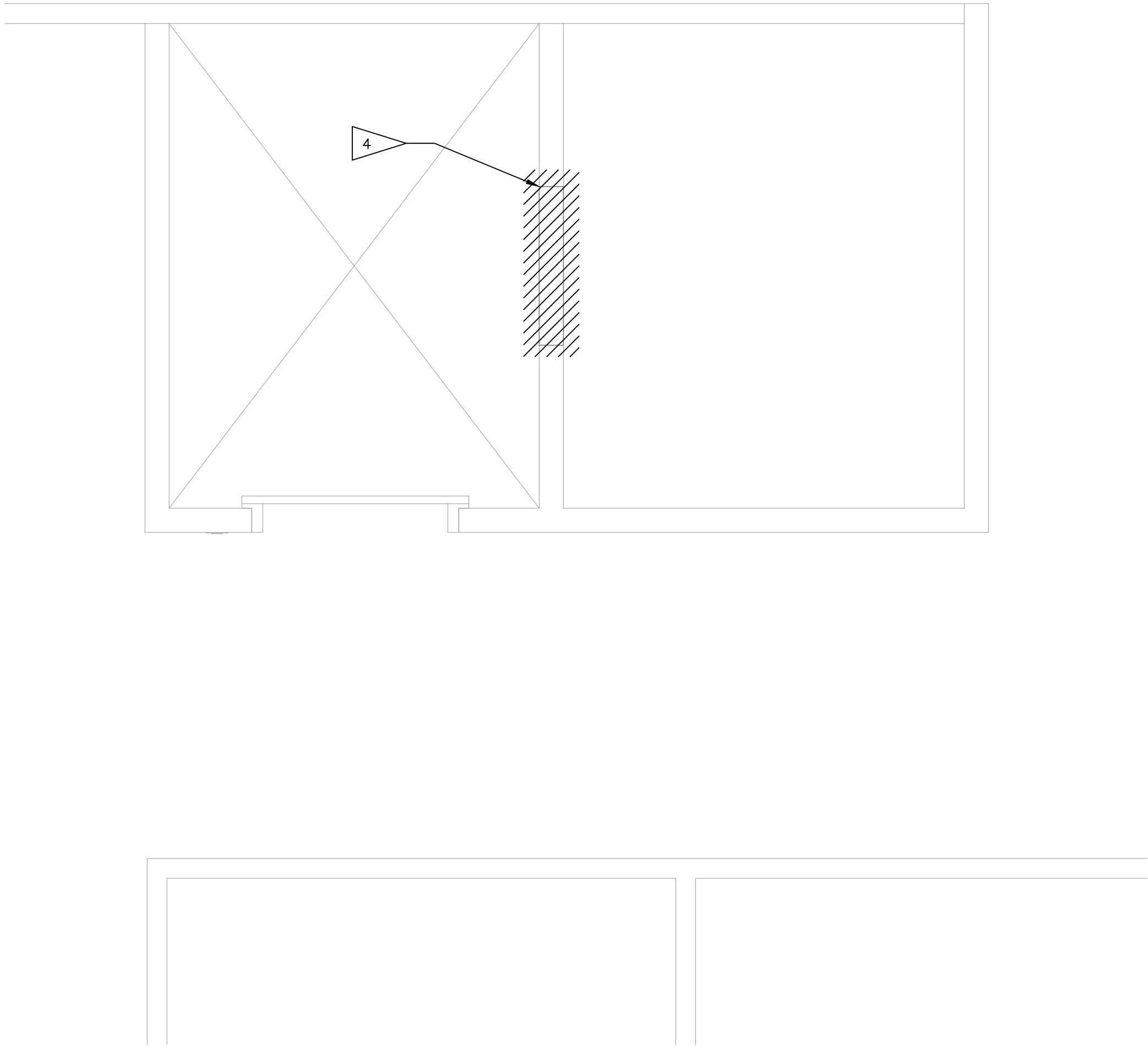
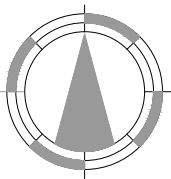
1. THE DEMOLITION DRAWINGS ARE DIAGRAMMATIC IN NATURE. CONTRACTOR IS RESPONSIBLE FOR COMPLETE REMOVAL OF INDICATED SYSTEMS & ASSOCIATED APPURTENANCES

FLAG NOTES:

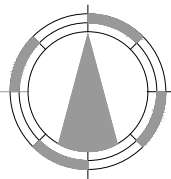
- 1 EXISTING FLOOR DRAIN, CAP PIPE AND PATCH FLOOR PER ARCHITECTURAL.
- 2 REMOVE EXISTING VALVE ACCESS PANEL AND PATCH AND PAINT WALL PER ARCHITECTURAL.
- 3 EXISTING FLOOR CLEANOUT, CAP AND PATCH FLOOR PER ARCHITECTURAL.
- 4 REMOVE EXISTING LOUVER IN HOISTWAY OVERRUN ABOVE LEVEL 3. PATCH WALL PER ARCHITECTURAL.
- 5 REMOVE EXISTING SPRINKLER HEAD.

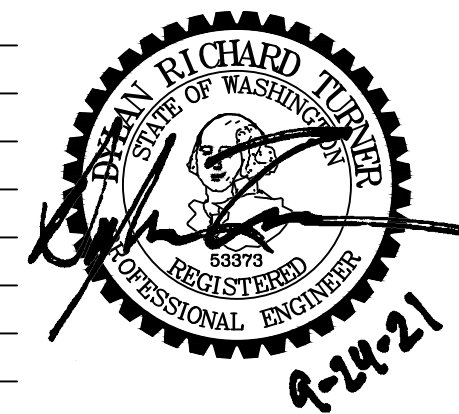


1 ENLARGED FIRST FLOOR MECHANICAL DEMOLITION PLAN
SCALE: 1/2" = 1'-0"



2 ENLARGED SECOND & THIRD FLOOR MECHANICAL DEMOLITION PLAN
SCALE: 1/2" = 1'-0"





100% CD

120 W SUNSET WAY
ISSAQUAH, WA 98027

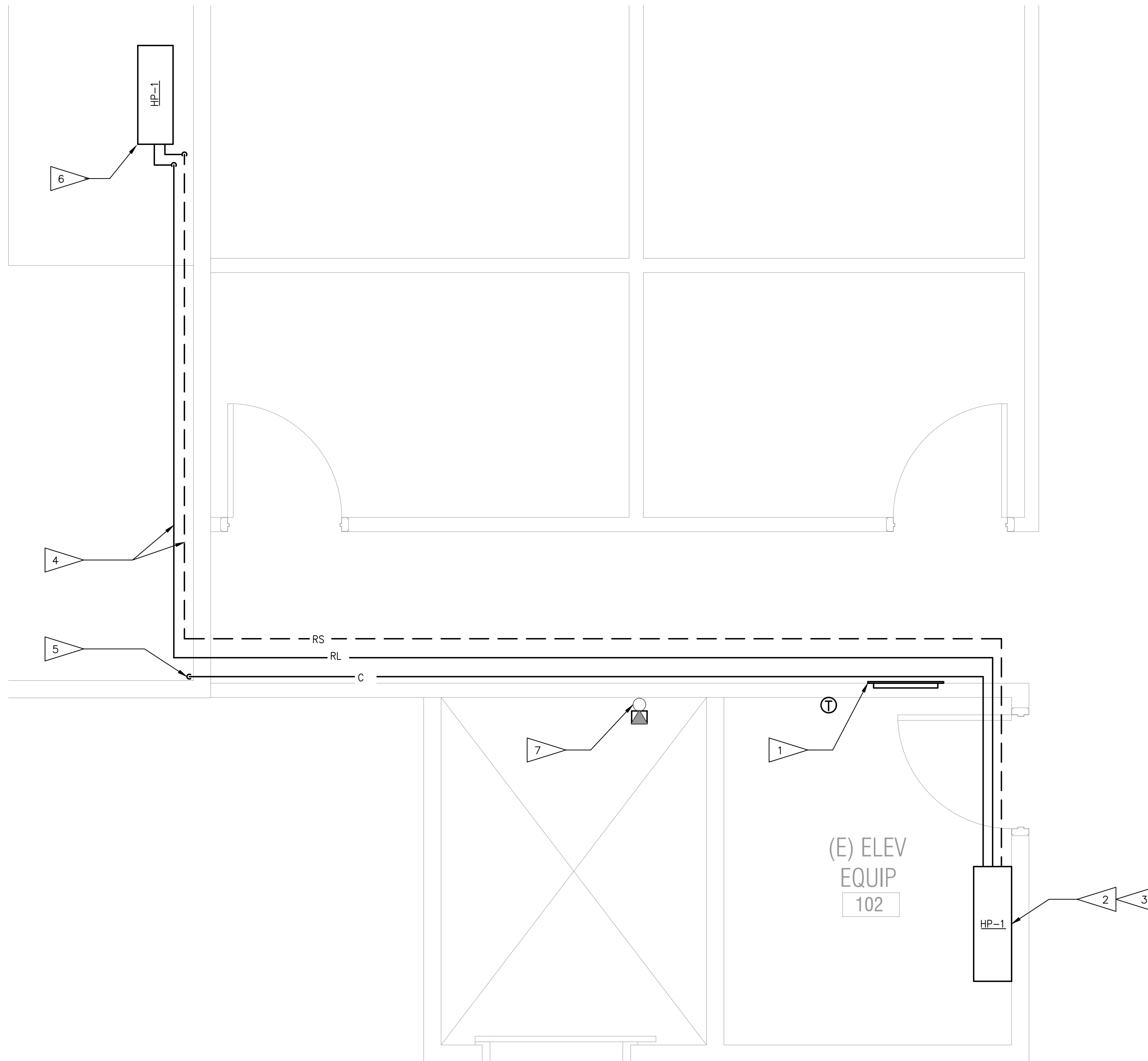
Drawn by:	EO
Checked:	RF
Date:	05/21/2021
Scale:	As indicated

Revisions:		
No.	Date	Remarks

M2.1

1. PROVIDE CUTTING AND PATCHING AS SPECIFIED AND AS REQUIRED TO INSTALL NEW PIPING AND EQUIPMENT.

1. PROVIDE NEW LOCKABLE VALVE ACCESS COVER. SEE ARCHITECTURAL.
2. COORDINATE LOCATION OF HP-1 INDOOR UNIT WITH THE ELEVATOR CONTRACTOR AND KCHA CONSTRUCTION MANAGER PRIOR TO WALL CUTTING.
3. INSTALL HP-1 INDOOR UNIT IN ELEVATOR MACHINE ROOM. ROUTE RL/RS TO THE HP-1 OUTDOOR UNIT MOUNTED OUTDOORS.
4. PROVIDE SHEETMETAL CONTAINMENT FOR ALL EXPOSED REFRIGERANT AND CONDENSATE PIPING. PAINT BLACK.
5. PUMP CONDENSATE TO EXTERIOR. TERMINATE 6" ABOVE GRADE.
6. COORDINATE FINAL HP-1 OUTDOOR UNIT LOCATION WITH KCHA CONSTRUCTION MANAGER.
7. INSTALL NEW SPRINKLER HEAD AT MAX 24" AFF. EXTEND EXISTING SPRINKLER PIPE AS REQUIRED TO CONNECT TO NEW HEAD.



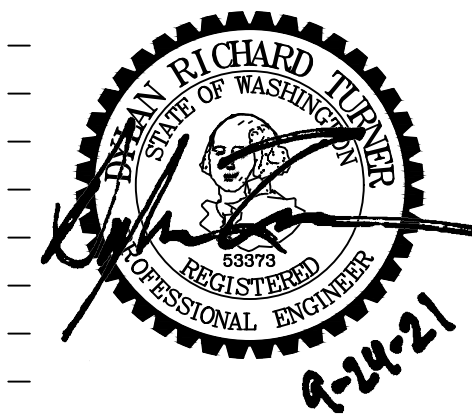
NO MECHANICAL WORK AT SECOND & THIRD FLOOR

1050 N. 38th St.
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(206) 378-0569 (206) 378-0641 FAX



KCHA
EASTRIDGE
HOUSE ELEVATOR
MODERNIZATION

100% CD

120 W SUNSET WAY
ISSAQUAH, WA 98027

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No. Date Remarks

ELEVATOR
LANDING AND
MACHINE ROOM
ELEVATOR
DEMOLITION
FLOOR PLANS

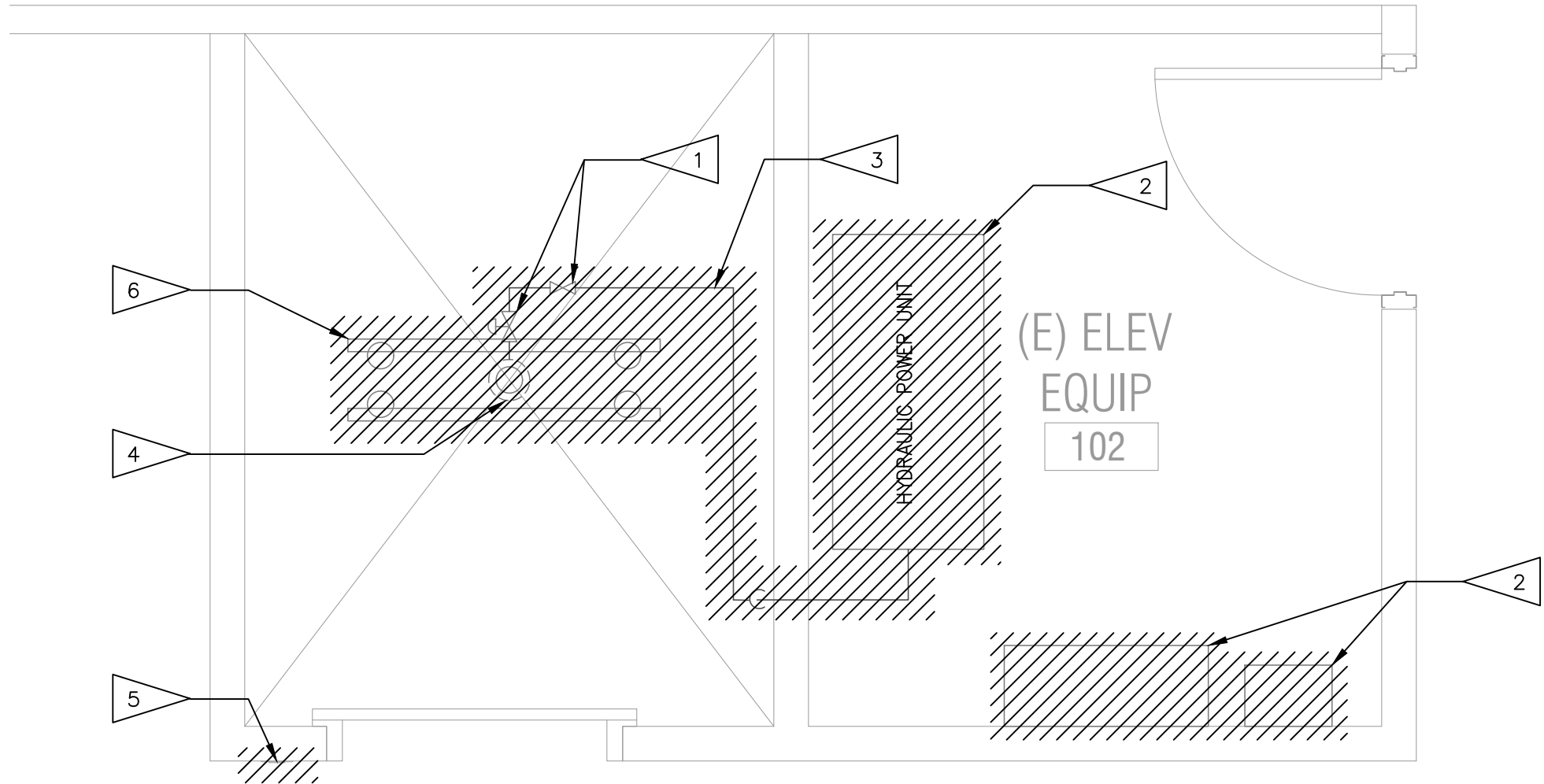
EVD2.1

GENERAL DEMOLITION NOTES:

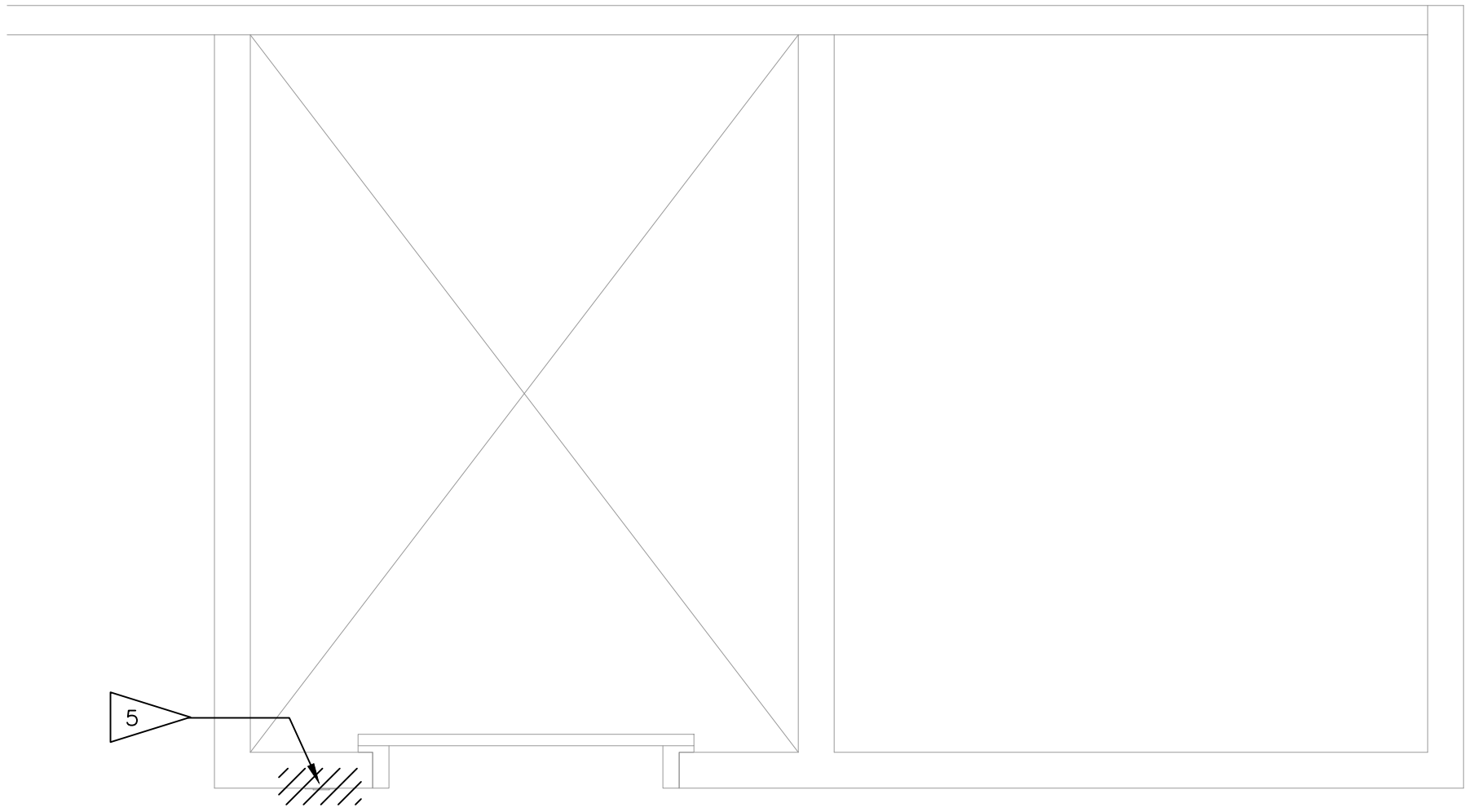
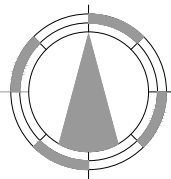
1. THE DEMOLITION SHOWN DOES NOT ATTEMPT TO COVER ALL ITEMS WHICH MUST BE REMOVED OR REPLACED AS PART OF THE ELEVATOR MODERNIZATION. CONTRACTOR IS NOT RELIEVED FROM PROVIDING ALL DEMOLITION SERVICES REQUIRED TO COMPLETE THE SCOPE SPECIFIED IN THE CONTRACT DOCUMENTS.
2. CONTRACTOR IS RESPONSIBLE FOR VERIFYING CONSTRUCTION AND EQUIPMENT ARRANGEMENTS ARE AS SHOWN. REPORT DISCREPANCIES TO OWNER BEFORE DISTURBING EXISTING INSTALLATION.

FLAG NOTES:

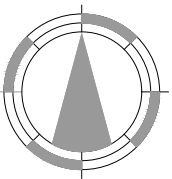
- 1 REMOVE EXISTING SHUTOFF VALVE, RUPTURE VALVE AND ASSOCIATED LENGTH OF PIPE TO ALLOW INSTALLATION OF NEW SHUT OFF VALVE AND RUPTURE VALVE.
- 2 REMOVE EXISTING POWER UNIT, ASSOCIATED CONTROLLER & BATTERY LOWERING DEVICE.
- 3 REMOVE EXISTING HYDRAULIC LINES, PATCH EXISTING PENETRATION THROUGH WALL. SEE ARCHITECTURAL.
- 4 REMOVE EXISTING IN-GROUND JACK ASSEMBLY COMPLETE. DEMOLISH SURROUNDING SLAB AS REQUIRED FOR REMOVAL. INCLUDE REPLACEMENT OF SECONDARY CYLINDER CASING AS ADD ALTERNATE 1. INCLUDE REQUIRED HOURS IN BID
- 5 REMOVE EXISTING HALL LANTERNS AND FIXTURES.
- 6 REMOVE EXISTING PIT CHANNELS AND BUFFERS.



1 ENLARGED FIRST FLOOR ELEVATOR DEMOLITION PLAN
SCALE:1/2" = 1'-0"

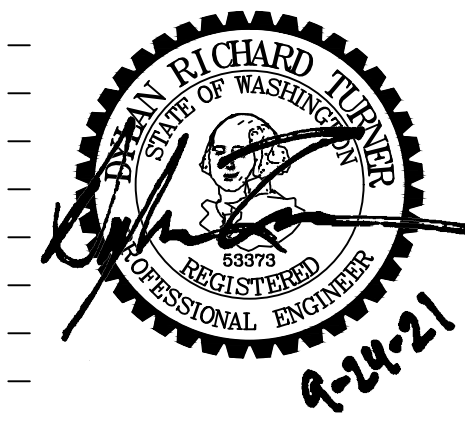


2 ENLARGED SECOND & THIRD FLOOR ELEVATOR DEMOLITION PLAN
SCALE:1/2" = 1'-0"



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KCHA
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120 W SUNSET WAY
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— Drawn by:	<u>EO</u>
— Checked:	<u>RF</u>
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— Revisions:	
— No.	<u>Date</u>
	<u>Remarks</u>

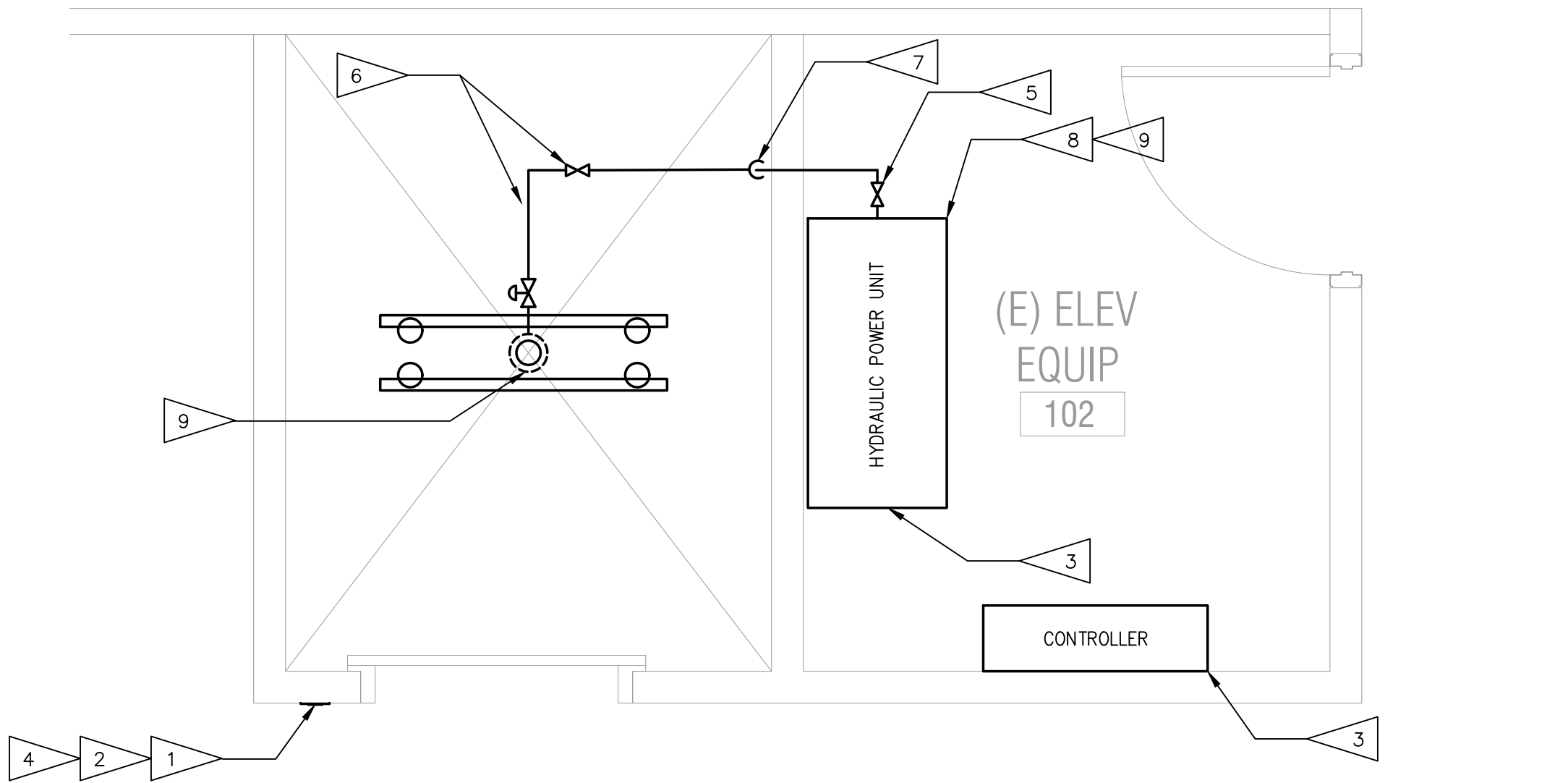
ELEVATOR
LANDING AND
MACHINE ROOM
ELEVATOR
FLOOR PLANS
EV2.1

SHEET NOTES:

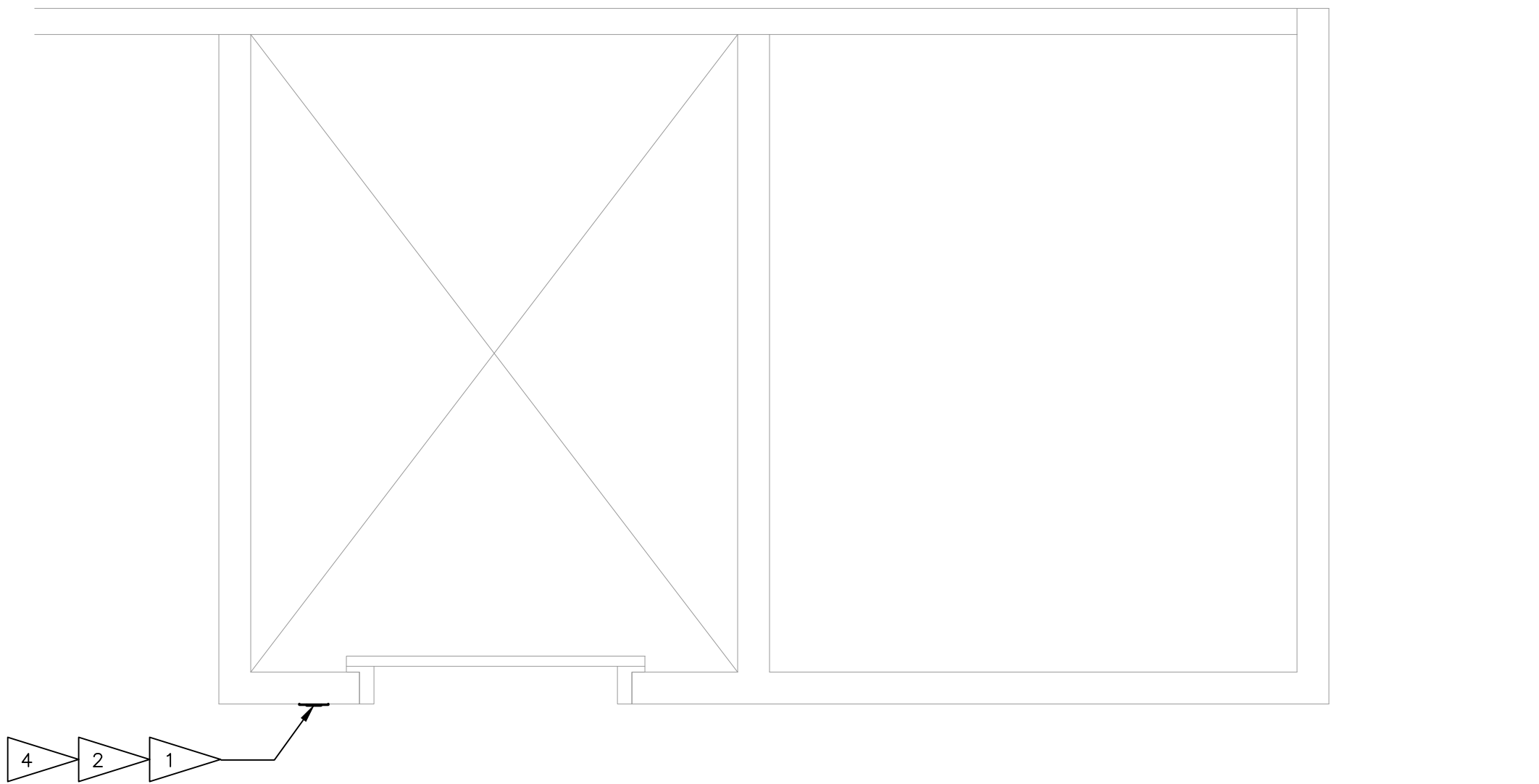
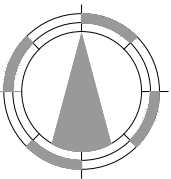
1. PROVIDE CUTTING AND PATCHING AS SPECIFIED AND AS REQUIRED TO INSTALL NEW PIPING AND EQUIPMENT.

FLAG NOTES:

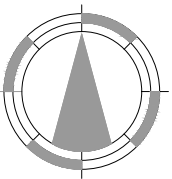
1. PROVIDE NEW SURFACE MOUNTED HALL CALL BUTTONS.
2. PROVIDE NEW SURFACE MOUNTED HALL LANTERNS.
3. PROVIDE NEW SUBMERSIBLE POWER UNIT AND SOLID STATE MICROPROCESSOR BASED CONTROLS.
4. HALL BUTTON FIXTURE AT EACH FLOOR SHALL BE PROVIDED WITH INTEGRAL POSITION INDICATORS.
5. NEW SHUTOFF VALVE.
6. PROVIDE NEW SHUTOFF VALVE AND RUPTURE VALVE.
7. CUT AND PATCH WALL AS REQUIRED TO INSTALL NEW HYDRAULIC LINE.
8. PROVIDE ISOLATION COUPLING AT POWER UNIT.
9. PROVIDE VIBRATION ISOLATION CONSISTING OF THE FOLLOWING: NEOPRENE PADS UNDER POWER UNIT AND PIPE STANDS WITH MINIMUM 1/4" DEFLECTION; NEOPRENE INSERTS AT ALL PIPE CLAMPS/SUPPORTS.
10. PROVIDE NEW IN-GROUND HYDRAULIC JACK, PIT CHANNELS, AND BUFFERS. INCLUDE REPLACEMENT OF SECONDARY CYLINDER CASING AS ADD ALTERNATE 1. INCLUDE REQUIRED HOURS IN BID.



1 ENLARGED FIRST FLOOR ELEVATOR PLAN
SCALE:1/2" = 1'-0"



2 ENLARGED SECOND & THIRD FLOOR ELEVATOR PLAN
SCALE:1/2" = 1'-0"



SHEET NOTES:

1. PROVIDE CUTTING AND PATCHING AS SPECIFIED AND AS REQUIRED TO INSTALL NEW PIPING AND EQUIPMENT.

FLAG NOTES:

- 1

PROVIDE NEW POSITION INDICATORS INTEGRATED WITHIN HALL FIXTURES AT EACH LANDING
- 2

EXISTING JACK TO BE REMOVED AND REPLACED WITH NEW DOUBLE BOTTOM JACK.
- 3

PROVIDE SHUT-OFF VALVES AND SEISMIC SAFETY VALVE.
- 4

SPRING BUFFERS AND CHANNEL, PROVIDE NEW
- 5

GUIDE RAILS EXISTING TO REMAIN. PROVIDE RAIL BACKING OR FISH PLATES AS REQUIRED TO MEET THE ELEVATOR SAFETY CODE. FIELD VERIFY AND PROVIDE QUANTITY REQUIRED.
- 6

RETAIN EXISTING PLATFORM, ENCLOSURE AND SUB-FLOOR.
- 7

FINISHES AS SPECIFIED.
- 8

PROVIDE NEW HANDRAILS.
- 9

PROVIDE NEW HALL LANTERNS
- 10

PROVIDE CAR EXHAUST FAN.
- 11

PROVIDE CAR OPERATING PANEL WITH TELEPHONE, INTERCOM, EMERGENCY LIGHT AND LED POSITION, DIRECTION INDICATORS, AND KEYSWITCH OVERRIDE.
- 12

PROVIDE CAR LED LIGHTING.
- 13

PROVIDE CAR TOP OPERATING STATION.
- 14

PROVIDE NEW TRAVELING CABLES.
- 15

PROVIDE TERMINAL LIMIT SWITCHES.
- 16

PROVIDE ADA JAMB PLATES.
- 17

PROVIDE HALL BUTTONS TO MEET ACCESSIBILITY REQUIREMENTS.
- 18

PROVIDE NEW TOE GUARD.
- 19

FASCIA PLATES EXISTING TO REMAIN.
- 20

LANDING SILLS ARE EXISTING TO REMAIN.
- 21

PROVIDE NEW CLOSED LOOP DOOR OPERATOR.
- 22

PROVIDE MECHANICAL KEYED ACCESS AT THE INTERMEDIATE LANDING.
- 23

PROVIDE DOOR EDGE PROTECTION DEVICE.
- 24

PROVIDE FIRE SIGNAGE AT EACH LANDING PROHIBITING USE OF ELEVATOR,DURING FIRE. SIGNAGE MAY BE INCORPORATED INTO HALL STATIONS.
- 25

PROVIDE NEW ROLLER GUIDES.
- 26

PROVIDE CAR TOP HATCH WITH ALARM.
- 27

PROVIDE NEW CAB DOORS.
- 28

PATCH ALL EXISTING AND CREATED HOLES IN THE HOISTWAY.
- 29

PROVIDE NEW INTERCOM AT FIRST FLOOR LOBBY.
- 30

PROVIDE NEW FIRE DEPARTMENT KEY BOX AT FIRST FLOOR LOBBY.
- 31

PROVIDE NEW SLAB AS REQUIRED DURING JACK REPLACEMENT.
- 32

HOISTWAYS ENTRANCES REPAINTED (BY OTHERS).
- 33

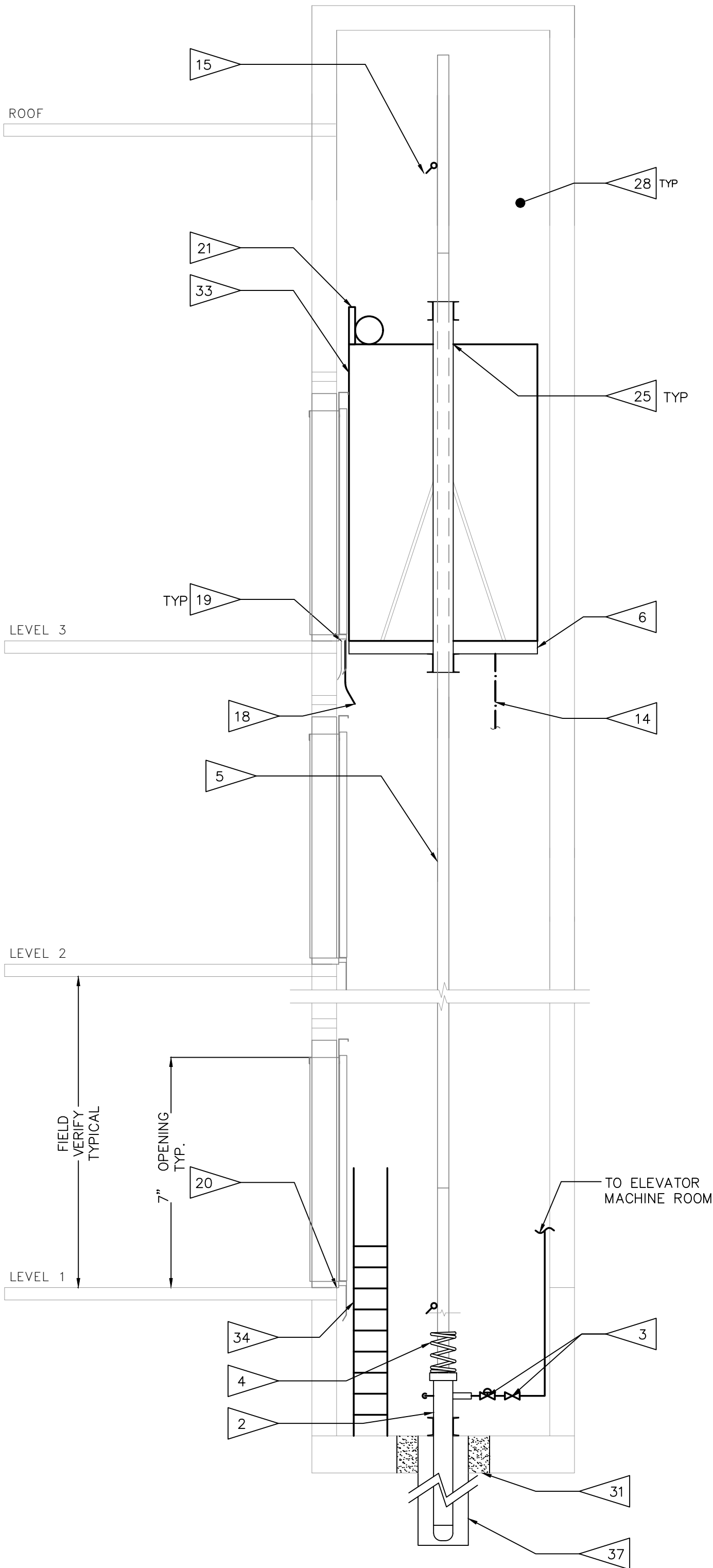
PROVIDE DUST COVER.
- 34

PROVIDE NEW CODE COMPLIANT PIT LADDER.
- 35

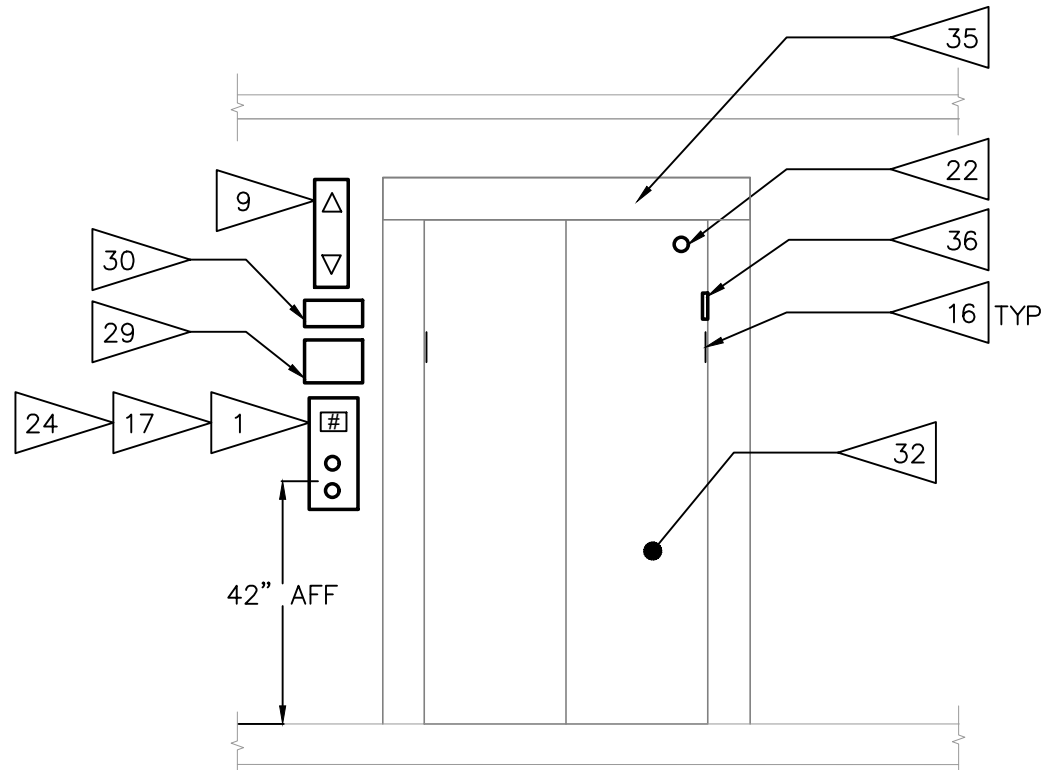
ALL FRAMES TO BE RE-PAINTED.
- 36

PROVIDE HOISTWAY ACCESS KEYSWITCHES AT TERMINAL LANDINGS.
- 37

INCLUDE REPLACEMENT OF SECONDARY CYLINDER CASING AS ADD ALTERNATE 1. INCLUDE REQUIRED HOURS IN BID.

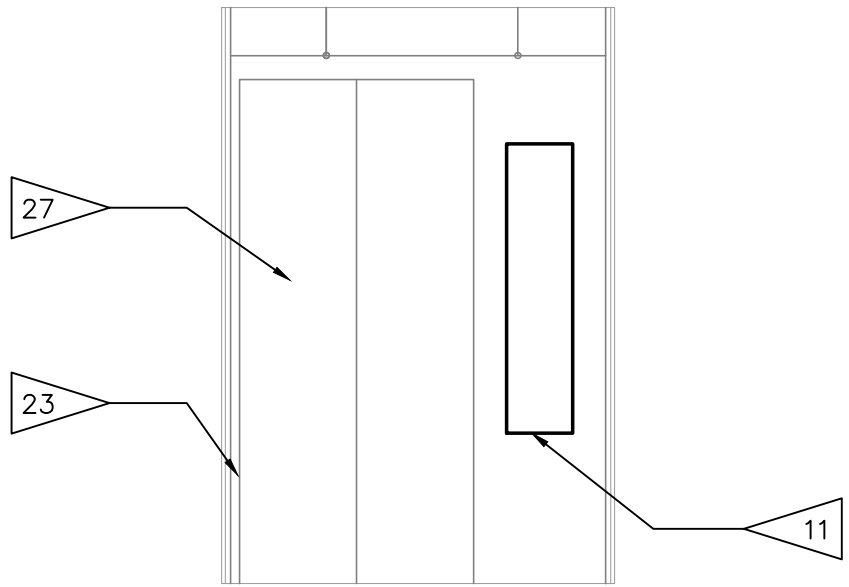


1 DIAGRAMMATIC HOISTWAY SECTION
SCALE: NTS

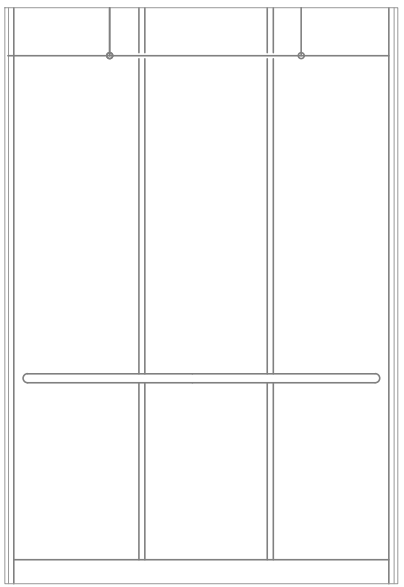


NOTE:
REFER TO ARCHITECTURAL FOR ADDITIONAL LOCATION INFORMATION

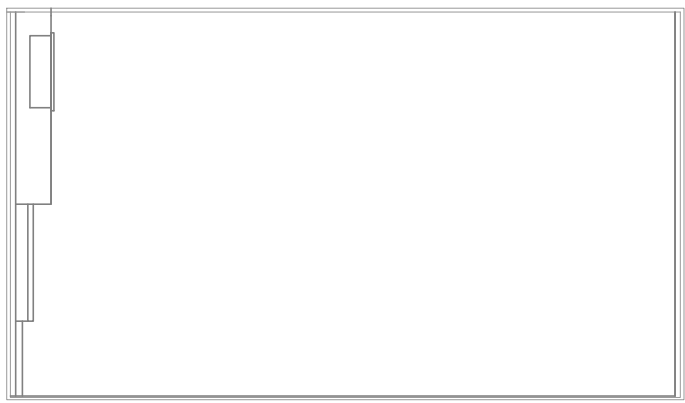
2 TYPICAL ELEVATOR LOBBY
SCALE: NTS



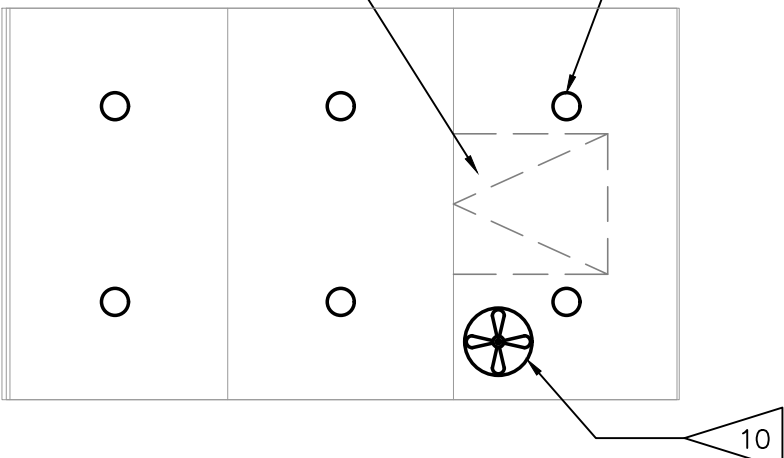
3 CAR FRONT ELEVATION
SCALE: NTS



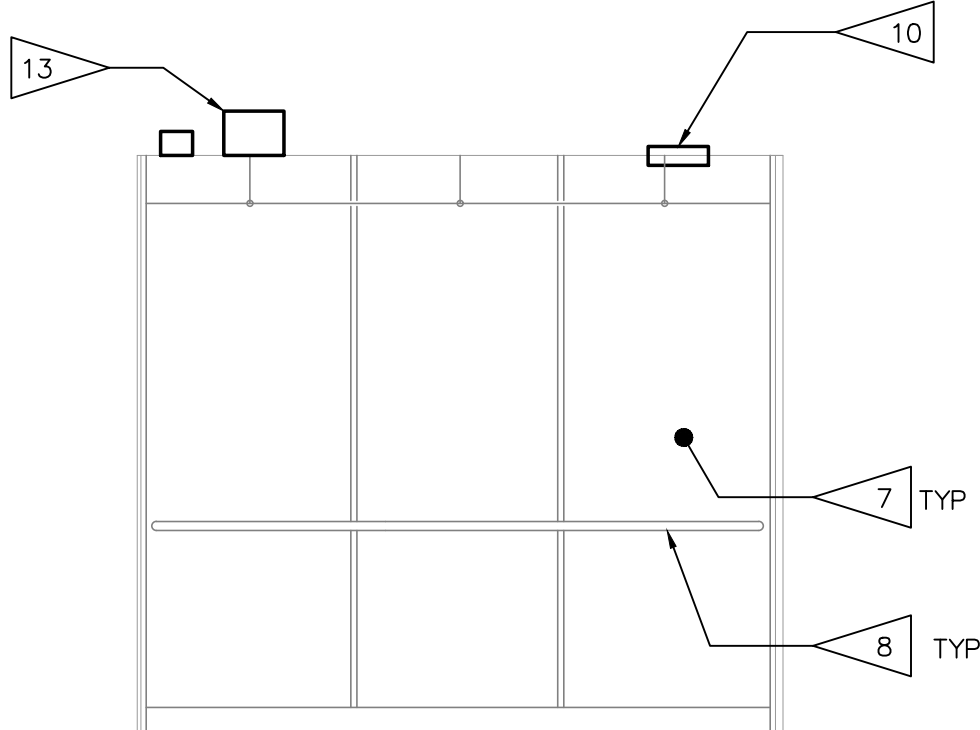
4 CAR REAR ELEVATION
SCALE: NTS



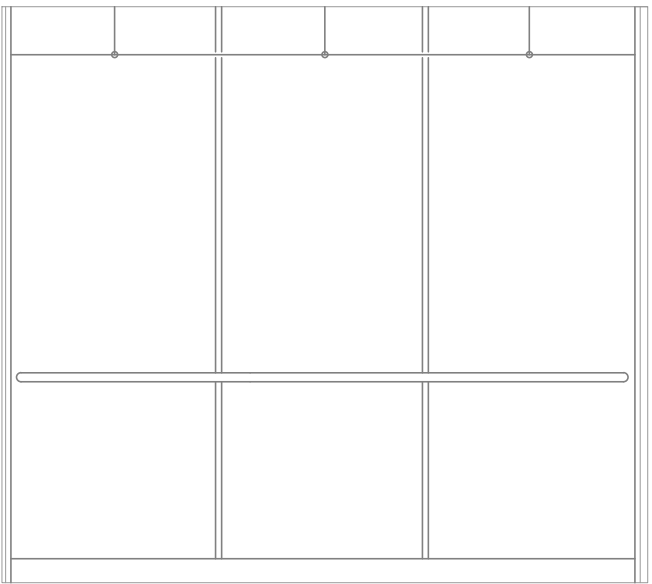
5 CAR FLOOR PLAN
SCALE: NTS



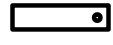



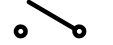

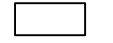











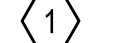
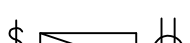
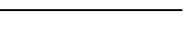

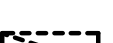
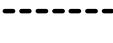

6 CAR RCP
SCALE: NTS



7 CAR SIDE ELEVATION
SCALE: NTS



8 CAR SIDE ELEVATION
SCALE: NTS

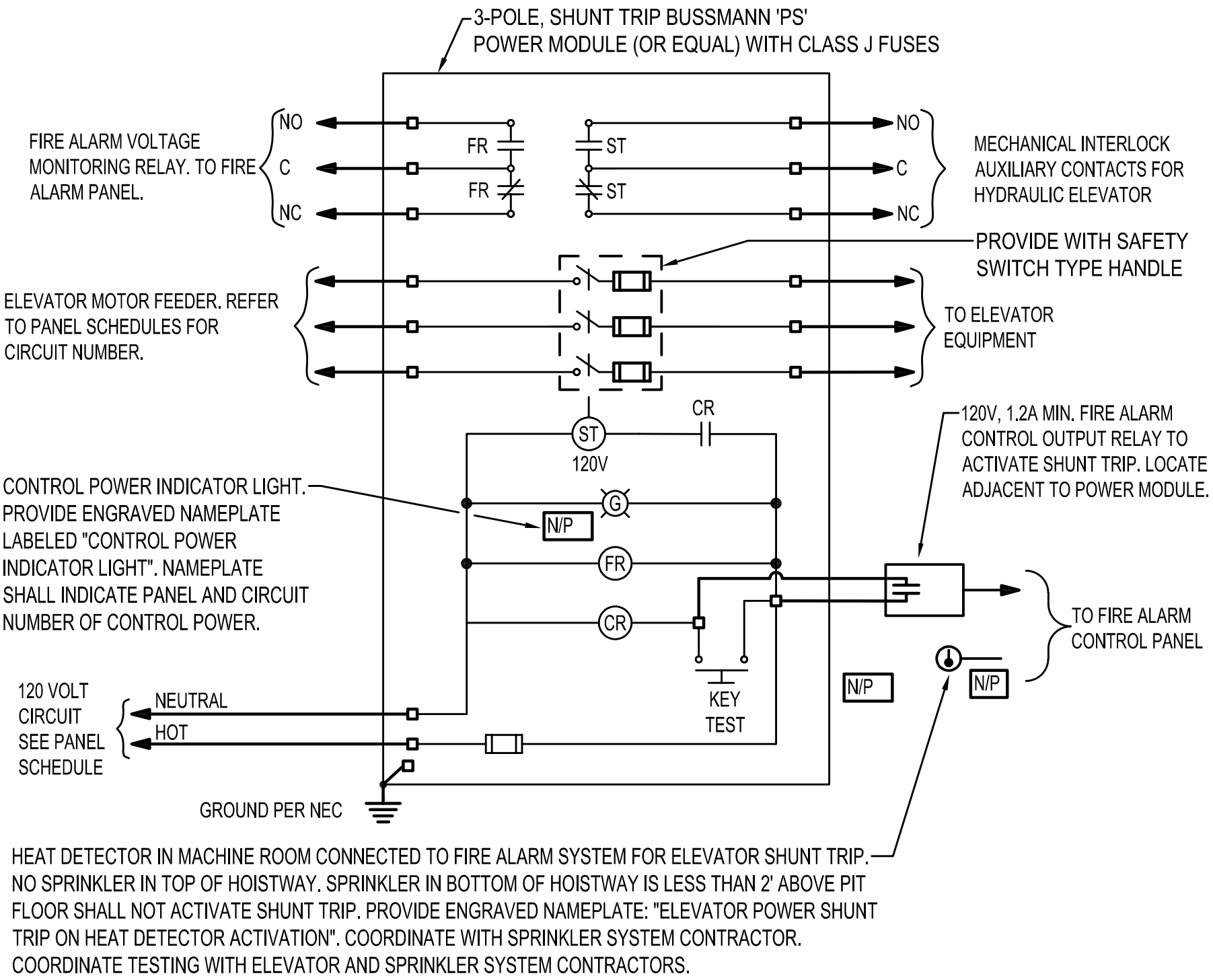
ELECTRICAL LEGEND	
SYMBOL	DESCRIPTION
EQUIPMENT AND WIRING	
	EXISTING 1X4 LIGHT FIXTURE
	RACEWAY CONCEALED UNDERGROUND OR UNDER FLOOR SLAB
	EXISTING 120/208 VOLT PANELBOARD
	NEW 120/208 VOLT PANELBOARD
	SWITCH
	FUSE AMPERAGE AS INDICATED
	EXISTING MAIN DISTRIBUTION BOARD
	GROUNDING SYSTEM
	UTILITY OWNED METER
	MOTOR CONNECTION
	SHUNT TRIP
	CIRCUIT BREAKER
	SWITCH
	FUSED DISCONNECT
	DUPLEX RECEPTACLE (G INDICATES GROUND FAULT CIRCUIT INTERRUPTER CIRCUIT, W INDICATES WEATHERPROOF)
	SMOKE DETECTOR
	HEAT DETECTOR
MISC.	
	CONSTRUCTION NOTES
	DEMOLITION NOTES
	ALL DEVICES WITH LIGHT LINE WEIGHT INDICATES EXISTING TO BE RETAINED
	ALL DEVICES WITH HEAVY LINE WEIGHT INDICATES NEW WORK
	ALL DEVICES WITH DASHED LINES INDICATES EXISTING TO BE DEMOLISHED
	WEATHERPROOF, GFCI RECEPTACLE WITH METALIC LOCKING COVER
	MECHANICAL EQUIPMENT CALLOUT
	WEATHERPROOF FOR ALL DEVICES

MECHANICAL EQUIPMENT CONNECTION SCHEDULE (EXHAUST FANS, AIR HANDLING UNITS, ETC)										
EQUIP.	VOLT/PH	LOAD			CIRCUIT		CONDUIT/WIRE SIZE	STARTER (NOTE 1)	FUSED DISC. (NOTE 1)	REMARKS
		VA	MCA	HP	PANEL	BKR				
HP- 1 (O)	208/1	2704	13	---	ELEV	1,3	3/4" C., (3)#12 & (1) #12 CU GND	MFR	EC	PROVIDE 20A FUSES
HP- 1 (I)	208/1	208	1	---	---	---	3/4" C., (3)#12 & (1) #12 CU GND	---	---	FED FROM OUTDOOR UNIT.
NOTE: 1. CONTRACTOR LISTED SHALL FURNISH AND INSTALL THE LISTED DEVICE.										

GENERAL NOTES FOR LIGHTING FIXTURE SCHEDULE						
1. SEE DRAWINGS FOR EMERGENCY LIGHTING FIXTURES.						
LIGHTING FIXTURE SCHEDULE						
SYMBOL	FIXTURE DESCRIPTION	MANUFACTURER/MODEL #	LUMENS	V	W	MOUNTING & REMARKS
PL1	4' PENDANT MOUNTED LED	EATON - FAIL-SAFE# HVL8-4-LD4-2STD-35-UNV-O-EDD1	7018	120V	69	PENDANT MOUNT. PROVIDE MOUNTING HARDWARE AS REQUIRED.
RL1	6" RECESS MOUNTED LED	COOPER - PORTFOLIO# LD6B15D010EMBOD EU6B10208030 6LBW11IE	1345	120V	15.5	
SL1	4" SURFACE MOUNTED LED	EATON - FAIL-SAFE# HVL8-4-LD4-2STD-35-UNV-O-EDD1	7018	120V	69	SURFACE MOUNT. PROVIDE MOUNTING HARDWARE AS REQUIRED.
WL1	4' WALL MOUNTED LED	EATON - FAIL-SAFE# 4VRVT3-LD5-5-W-120V-L835-CD1-U	5410	120V	41	SURFACE MOUNT. PROVIDE MOUNTING HARDWARE AS REQUIRED.

GENERAL NOTES (APPLY TO ALL DRAWINGS)

- SEE EACH SHEET FOR ADDITIONAL GENERAL NOTES THAT ARE SPECIFIC TO AN AREA OR SHEET.
- THE CONTRACTOR IS RESPONSIBLE TO VERIFY ALL CABLE ROUTING AND ALL WORK REQUIRED TO FACILITATE A COMPLETE AND FULLY FUNCTIONAL SYSTEM.
- ALL CIRCUIT EXTENSIONS AND NEW RACEWAYS SHALL BE CONCEALED IN FINISHED AREAS. NOTIFY KCHA PROJECT MANAGER FOR APPROVAL. PRIOR TO INSTALLATION OF ANY SURFACE MOUNTED RACEWAY WHERE CONCEALMENT IS NOT POSSIBLE. ROUTE ALL SURFACE METAL RACEWAY AS INCONSPICUOUSLY AS POSSIBLE AND PAINT TO MATCH ADJACENT SURFACE.
- PANEL DESIGNATIONS AND CIRCUIT NUMBERS ARE ONLY INDICATED ON THE DRAWINGS FOR REFERENCE BY THE ELECTRICAL CONTRACTOR. THE E.C. IS RESPONSIBLE TO PROVIDE ALL CONDUIT, WIRING, JUNCTION BOXES, AND MISCELLANEOUS ACCESSORIES TO ACCOMMODATE INSTALLATION AND CONNECTION OF ALL DEVICES INDICATED ON THE CONTRACT DOCUMENTS. ALL WIRING HOMERUNS SHALL BE IN HARD CONDUIT BACK TO THE DESIGNATED PANELBOARD. ALL JUNCTION BOXES SHALL BE LABELED IDENTIFYING THE PANELBOARD AND CIRCUIT CONTAINED WITHIN. THERE SHALL BE NO MORE THAN (3) CIRCUITS PER HOMERUN. MULTI-WIRE CIRCUITS ARE NOT ALLOWED. EACH CIRCUIT SHALL CONTAIN A DEDICATED NEUTRAL UNLESS SPECIFICALLY ALLOWED BY THE ENGINEER. ALL WIRING SHALL BE SIZED ACCORDING TO THE AMPACITY OF THE CIRCUIT BREAKER INDICATED ON THE PANEL SCHEDULE. ALL CONDUITS SHALL BE SIZED PER NEC CODE BASED ON THE CONDUCTOR SIZE, TYPE, QUANTITY AND MINIMUM FILL REQUIREMENTS. CIRCUITS OVER 120' FOR 120V SHALL BE UPSIZED ONE WIRE SIZE TO ACCOUNT FOR VOLTAGE DROP. E.C. IS RESPONSIBLE TO SHOW ALL JUNCTION BOX LOCATIONS, CONDUIT ROUTING, AND HOMERUNS ON A SET OF AS-BUILT DRAWINGS.
- FEED THROUGH GFCI RECEPTACLES SHALL NOT BE USED.
- ALL TYPICAL DEVICES SHALL BE MOUNTED AT CONSISTENT LOCATIONS AND HEIGHTS THROUGHOUT THIS PROJECT, UNLESS NOTED OTHERWISE.
- SEE ALL DETAIL SHEETS AND RISER DIAGRAMS FOR ADDITIONAL WORK. ALL DETAILS AND RISERS ARE APPLICABLE TO THIS PROJECT WHETHER REFERENCED OR NOT.
- GROUNDING SHALL CONFORM TO NEC 250.
- COORDINATE WITH OWNER AND GENERAL CONTRACTOR FOR FURTHER REQUIREMENTS FOR THE ADVANCE NOTIFICATION TO THE BUILDING TENANTS BEFORE ANY SYSTEM SHUTDOWN. ALL SHUTDOWN AND CHANGE-OVER TIME SHALL BE KEPT TO A MINIMUM. ALL BUILDING SYSTEM SHUT DOWNS SHALL BE DISCUSSED AND COORDINATED BETWEEN THE GENERAL CONTRACTOR AND ALL SUBCONTRACTORS. THE CONTRACTOR SHALL SUBMIT A OUTAGE PROPOSAL TO OWNER FOR APPROVAL. NO BUILDING SYSTEM SHUTDOWNS WILL BE ALLOWED WITHOUT BEING SCHEDULED AND APPROVED BY KCHA.
- PRIOR TO THE INSTALLATION OF CONDUIT, CONDUCTORS, OR ELECTRICAL EQUIPMENT RELATED TO THE ELEVATOR, COORDINATE ALL CONNECTION AND CIRCUITING REQUIREMENTS WITH ELEVATOR SUPPLIER.



1 ELEVATOR SHUNT TRIP DIAGRAM
SCALE: DIAGRAMMATIC

ABBREVIATION	
A	AMPERE
AL	ALUMINUM
C	CONDUIT
CU	COPPER
EC	ELECTRICAL CONTRACTOR
GND	GROUND
HP	HORSE POWER, HEAT PUMP
LTG	LIGHTING
RM	ROOM
KCMIL	THOUSAND CIRCULAR MILS
KVA	KILOVOLT-AMPERE
MDB	MAIN DISTRIBUTION BOARD
MP	METERING POINT
Ø	PHASE
P	PHASE, POLE
V	VOLT

KCHA
EASTRIDGE
ELEVATOR
MODERNIZATION

100% CD

120 W. SUNSET WAY
ISSAQUAH, WA 98027

Drawn by: JL
Checked: BM
Date: 5/21/2021
Scale: As indicated

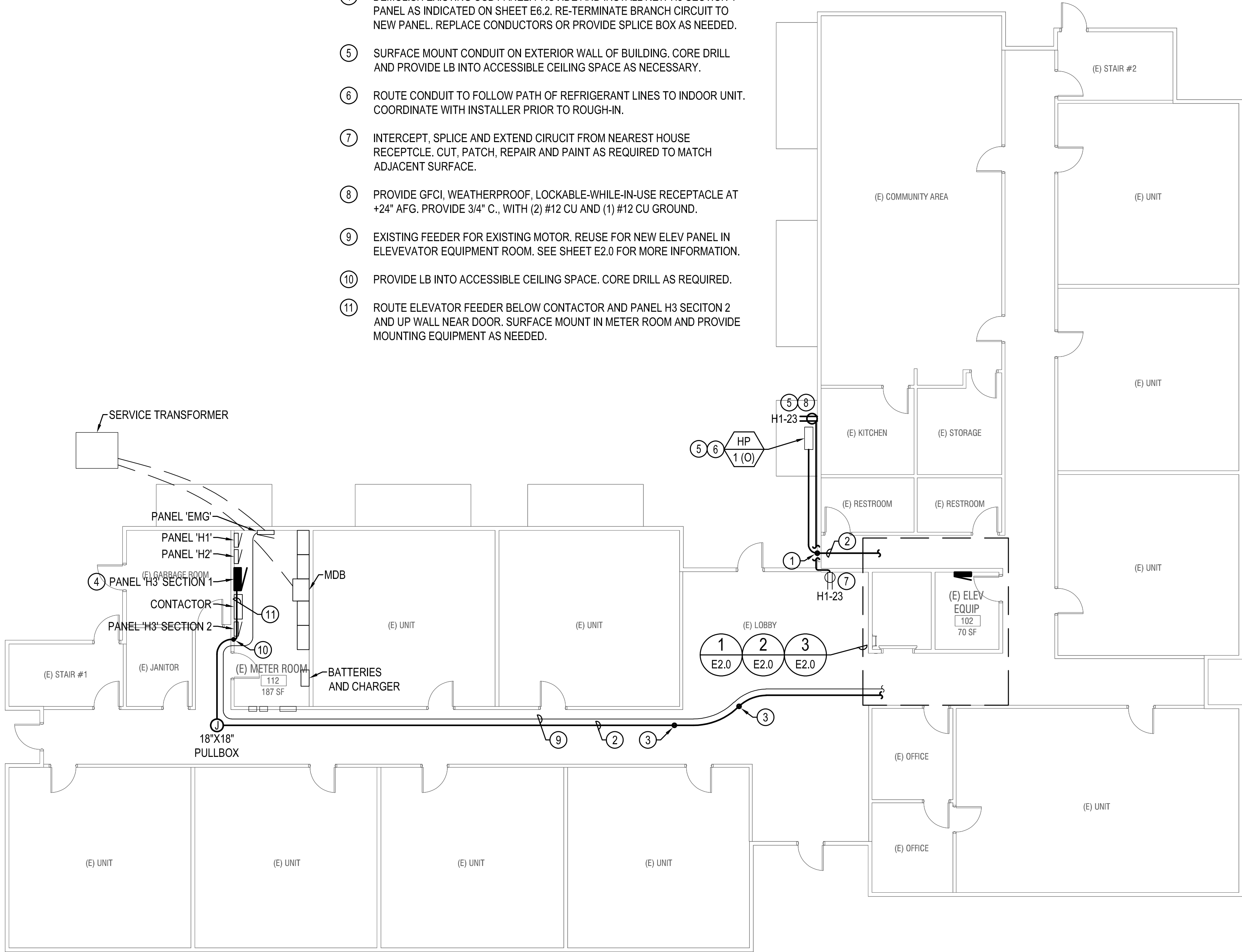
Revisions:
No. Date Remarks

GENERAL NOTES

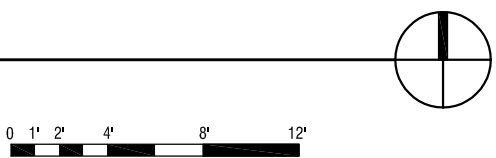
1. SEE ONE LINE DIAGRAM ON E6.0 FOR ELEVATOR MOTOR FEEDER SIZE.

CONSTRUCTION NOTES

1. ROUTE CONDUIT UP WALL CAVITY FROM HP-1 (O) AND LB INTO ACCESSIBLE CEILING SPACE. SEAL AND PAINT PENETRATIONS TO MATCH ADJACENT SURFACE.
2. ROUTE IN ACCESSIBLE CEILING SPACE. PROVIDE ALL CORE DRILLING AS REQUIRED. AT CONTRACTORS OPTION AND WITH WRITTEN APPROVAL FROM KCHA CONTRACTOR MAY REQUEST TO SURFACE MOUNT RACEWAY IN NON-FINISHED SPACES IN LIEU OF ROUTING IN ACCESSIBLE CEILING SPACE. IF SURFACE RACEWAY IS USED PAINT TO MATCH ADJACENT SURFACE.
3. PROVIDE CORE DRILLING IN ACCESSIBLE CEILING SPACE.
4. DEMOLISH EXISTING CCB PANEL. PROVIDE AND INSTALL NEW H3 SECTION 1 PANEL AS INDICATED ON SHEET E6.2. RE-TERMINATE BRANCH CIRCUIT TO NEW PANEL. REPLACE CONDUCTORS OR PROVIDE SPLICE BOX AS NEEDED.
5. SURFACE MOUNT CONDUIT ON EXTERIOR WALL OF BUILDING. CORE DRILL AND PROVIDE LB INTO ACCESSIBLE CEILING SPACE AS NECESSARY.
6. ROUTE CONDUIT TO FOLLOW PATH OF REFRIGERANT LINES TO INDOOR UNIT. COORDINATE WITH INSTALLER PRIOR TO ROUGH-IN.
7. INTERCEPT, SPLICE AND EXTEND CIRUCIT FROM NEAREST HOUSE RECEPTCLE. CUT, PATCH, REPAIR AND PAINT AS REQUIRED TO MATCH ADJACENT SURFACE.
8. PROVIDE GFCI, WEATHERPROOF, LOCKABLE-WHILE-IN-USE RECEPTACLE AT +24" AFG. PROVIDE 3/4" C., WITH (2) #12 CU AND (1) #12 CU GROUND.
9. EXISTING FEEDER FOR EXISTING MOTOR. REUSE FOR NEW ELEV PANEL IN ELEVEVATOR EQUIPMENT ROOM. SEE SHEET E2.0 FOR MORE INFORMATION.
10. PROVIDE LB INTO ACCESSIBLE CEILING SPACE. CORE DRILL AS REQUIRED.
11. ROUTE ELEVATOR FEEDER BELOW CONTACTOR AND PANEL H3 SECITON 2 AND UP WALL NEAR DOOR. SURFACE MOUNT IN METER ROOM AND PROVIDE MOUNTING EQUIPMENT AS NEEDED.



1 FIRST FLOOR ELECTRICAL PLAN
1/8" = 1'-0"



1050 N. 38th St.
Seattle, WA 98103
PH: 206.675.9151
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BCEengineers, inc.
6021 12th Street East, Suite 200
Fife, Washington 98424
T: 253.922.0446
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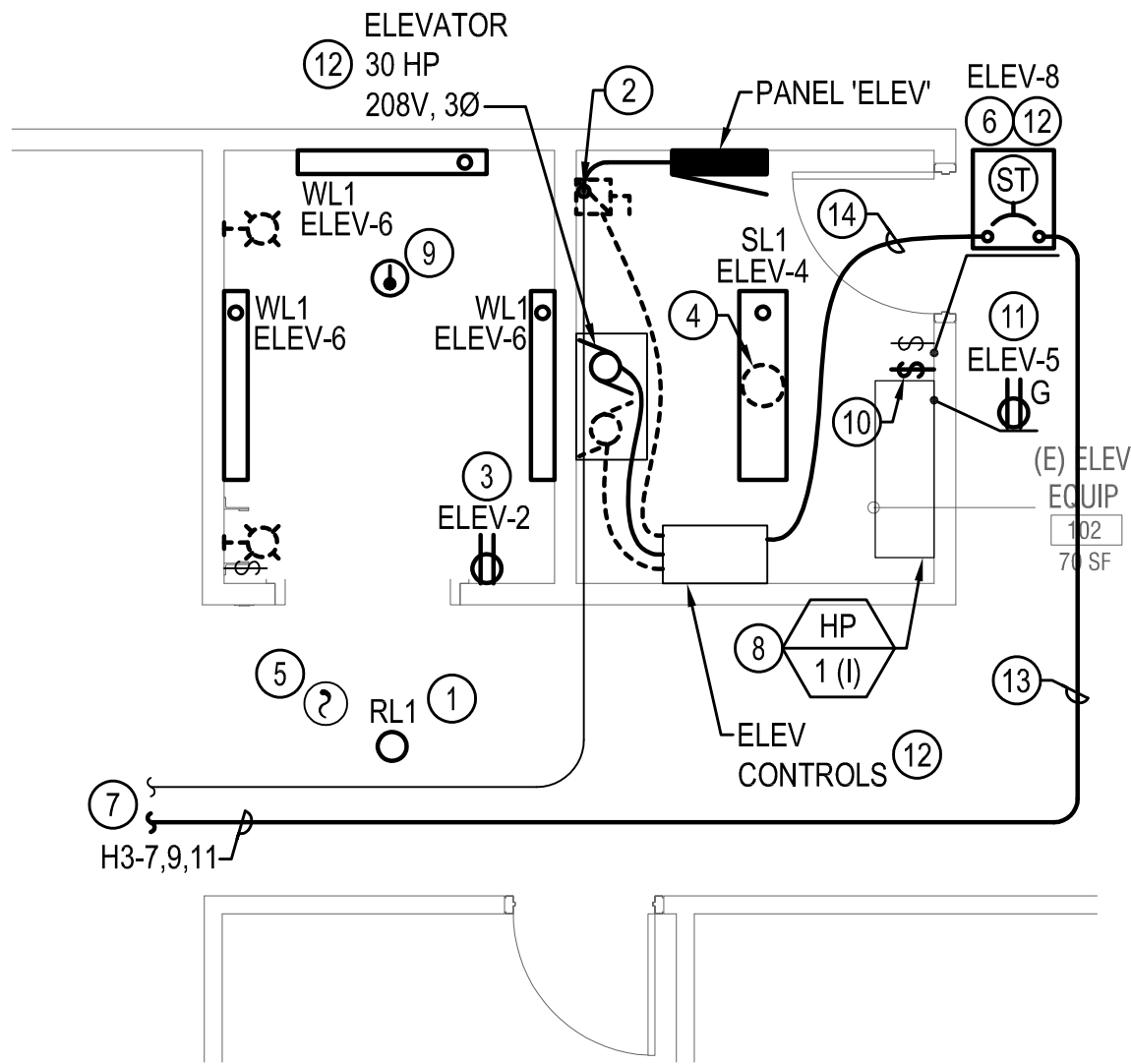


GENERAL NOTES

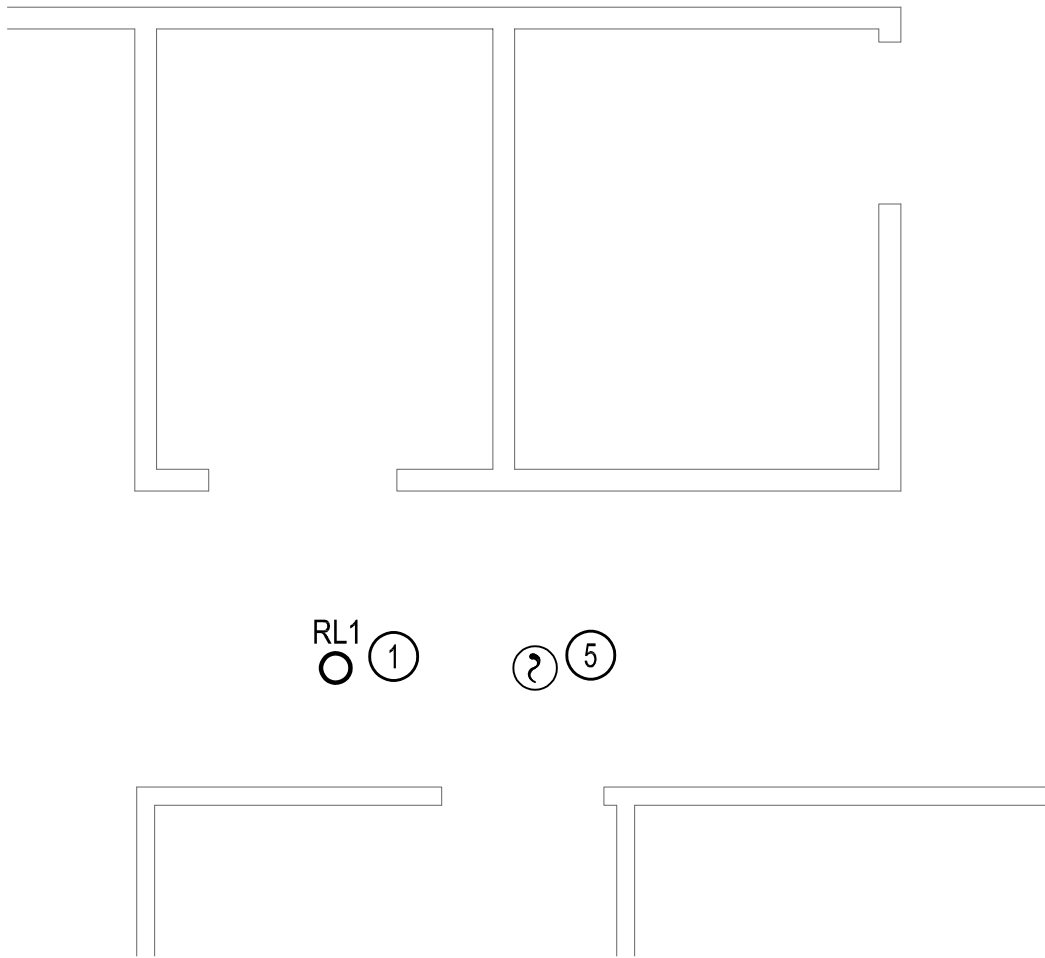
1. PROVIDE ALL CORE DRILLING THROUGH EXISTING WALLS FOR NEW CONDUIT AS REQUIRED. COMPLETELY SEAL ALL PENETRATIONS TO MATCH RATING OF WALL. FINISH AND PAINT AROUND PENETRATION TO MATCH ADJACENT SURFACE.
2. SEE ELECTRICAL ONE-LINE DIAGRAMS ON E6.0 FOR MORE INFORMATION.
3. SEE GENERAL NOTES ON E0.1.

CONSTRUCTION NOTES

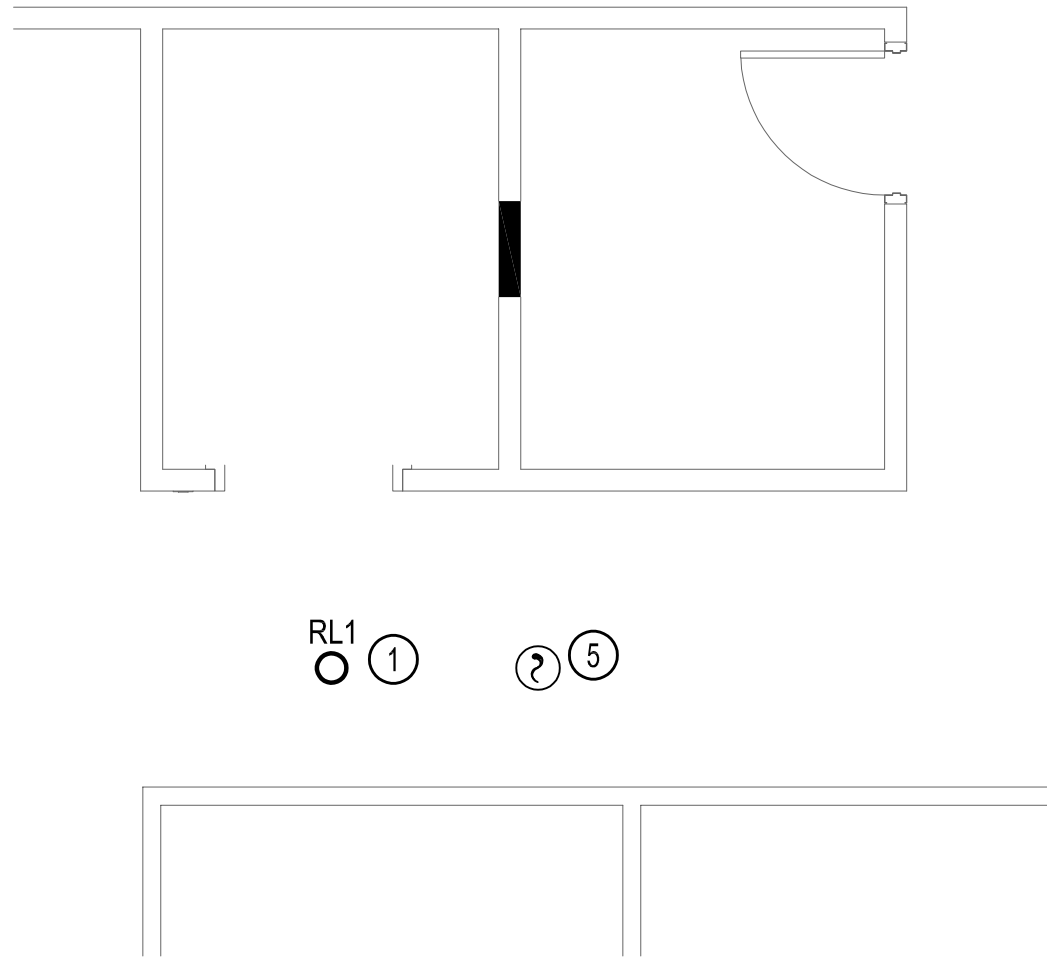
1. INTERCEPT, SPLICE AND EXTEND BRANCH CIRCUIT FROM NEAREST EXISTING LIGHT FIXTURE.
2. INTERCEPT, SPLICE AND EXTEND FEEDER FROM EXISTING ELEVATOR MOTOR DISCONNECT TO NEW ELEVATOR PANEL.
3. JUNCTION BOX AND RECEPTACLE TO BE REPLACED WITH GFCI RECEPTACLE IN PIT.
4. REPLACE EXISTING LIGHT FIXTURE WITH SL1. REMOVE FROM EXISTING CIRCUIT AND PROVIDE CONNECTION TO NEW ELEV PANEL.
5. EXISTING SMOKE DETECTOR.
6. MOUNT HANDLE OF DISCONNECT WITHIN 24 INCHES OF STRIKE SIDE OF DOOR. PROVIDE SHUNT TRIP DEVICE FEEDING THE ELEVATOR MOTOR. SEE ONE LINE DIAGRAM FOR MORE INFORMATION. SEE E0.1 FOR SHUNT TRIP DIAGRAM.
7. SEE SHEET E1.0 FOR CONTINUATION.
8. ROUTE CONDUIT TO FOLOW PATH OF REGRIGERANT LINES TO CONDENSING UNIT HP-1 (O). COORDINATE WITH INSTALLER PRIOR TO ROUGH-IN.
9. PROVIDE NEW COMPATIBLE HEAT DETECTOR IN ELEVATOR PIT TO INITIATE ELEVATOR FIRE RECALL AND TIE INTO EXISTING FIRE ALARM SYSTEM.
10. CAB LIGHTS AND POWER TO CIRCUIT ELEV-2. PROVIDE MANUAL DISCONNECT AS REQUIRED BY ELEVATOR INSTALLER. PROVIDE PHENOLIC LABEL "ELEVATOR CAB".
11. REPLACE EXISTING RECEPTACLE IN ELEVATOR EQUIPMENT ROOM WITH A NEW GFCI RECEPTACLE AND ROUTE TO NEW PANEL ELEV.
12. REMOVE AND REPLACE EXISTING ELEVATOR MOTOR, DISCONNECT, CONTROL PANEL AND ASSOCIATED APPURTENANCES NOT TO BE REUSED. SEE ONE LINE DIAGRAM ON E6.0 FOR MORE INFORMATION.
13. ROUTE IN ACCESSIBLE CEILING SPACE. PROVIDE ALL CORE DRILLING AS REQUIRED. AT CONTRACTORS OPTION AND WITH WRITTEN APPROVAL FROM KCHA CONTRACTOR MAY REQUEST TO SURFACE MOUNT RACEWAY IN NON-FINISHED SPACES IN LIEU OF ROUTING IN ACCESSIBLE CEILING SPACE. IF SURFACE RACEWAY IS USED PAINT TO MATCH ADJACENT SURFACE.
14. SURFACE MOUNT RACEWAY FROM DISCONNECT TO ELEVATOR MOTOR.



1 ENLARGED ELECTRICAL PLANS - FIRST FLOOR
1/4" = 1'-0"



2 ENLARGED ELECTRICAL PLANS - SECOND FLOOR
1/4" = 1'-0"



3 ENLARGED ELECTRICAL PLANS - THIRD FLOOR
1/4" = 1'-0"



KCHA
EASTRIDGE
ELEVATOR
MODERNIZATION

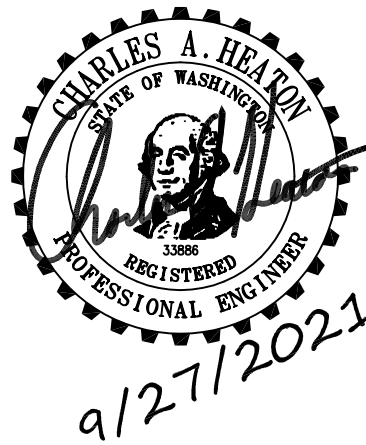
100% CD

120 W. SUNSET WAY
ISSAQUAH, WA 98027

Drawn by: JL
Checked: BM
Date: 5/21/2021
Scale: As indicated

Revisions:
No. Date Remarks

ENLARGED
ELECTRICAL PLANS
E2.0



KCHA
EASTRIDGE
ELEVATOR
MODERNIZATION

100% CD

120 W. SUNSET WAY
ISSAQUAH, WA 98027

Drawn by: JL
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ELECTRICAL ONE-LINE
DIAGRAM
E6.0

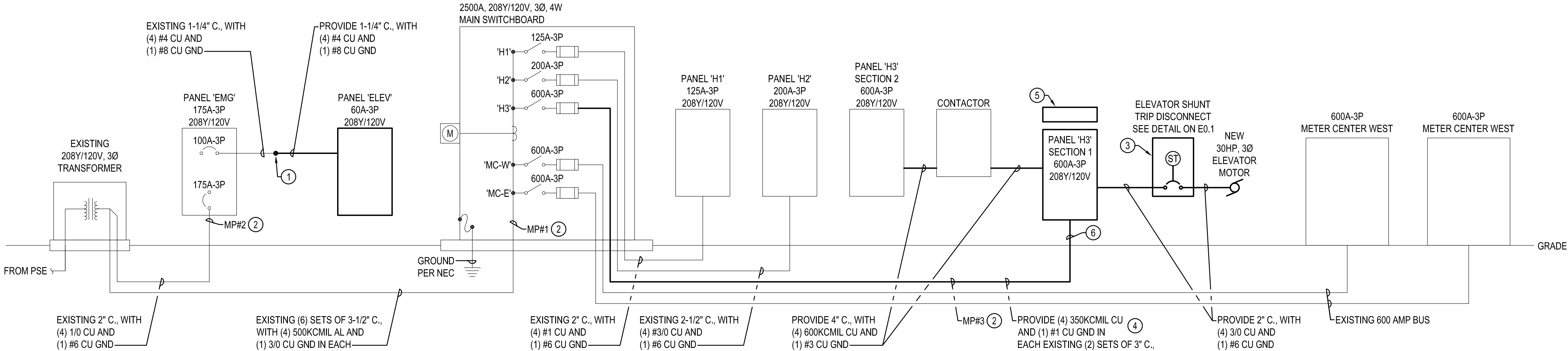
CONSTRUCTION NOTES

- INTERCEPT, SPLICE AND EXTEND EXISTING FEEDER FOR EXISTING ELEVATOR MOTOR TO NEW ELEVATOR PANEL IN THE MACHINE ROOM AS REQUIRED.
- METERING POINT FOR 30 DAY METERING. SEE CALCULATIONS THIS SHEET FOR MORE INFORMATION.
- PROVIDE BUSSMAN ELEVATOR SHUNT TRIP DEVICE IN ELEVATOR MACHINE ROOM. SEE DETAIL ON E0.1 FOR MORE INFORMATION. PROVIDE FUSES SIZED PER ELEVATOR MANUFACTURERS REQUIREMENTS.
- REPLACE EXISTING CONDUCTORS IN CONDUIT.
- PROVIDE GUTTER AS REQUIRED TO INTERCEPT, SPLICE AND EXTEND EXISTING BRANCH CIRCUITS TO NEW PANEL.
- REMOVE CONDUCTORS AND CUT CONDUIT TO INSTALL NEW PANEL AS CLOSE TO FLOOR AS POSSIBLE. REPLACE AND TERMINATE NEW FEEDER CONDUCTORS AS INDICATED.

KCHA EASTRIDGE ELEVATOR MODERNIZATION 30 DAY PEAK DEMAND CALCULATION WORKSHEET 2500A MAIN SWITCHBOARD at MAIN SWITCHBOARD (MP#1)			
NEC 220.87 AND WAC 296-46B-900(3)(j)			
30-day demand study from :	2021-03-09	to	2021-04-14
Phase to Phase Voltage (Volts) :	208		
Phases (1=Single Phase, 3=Three Phase) :	3		
30 Day Peak Demand On :	2021-03-16	=	239.46 Amps
Apparent Peak Demand	=	86.27	KVA
NEC 220.87(2) adjustment factor	X	1.25	
Adjusted Peak Demand	=	107.84	KVA
Seasonal adjustment factor	X	1.00	
Seasonal adjustment peak demand	=	107.84	KVA
Occupancy adjustment factor	X	1.00	
Occupancy adjustment peak demand	=	107.84	KVA
Other adjustment factor(s)	X	1.00	
Measured Peak Demand with Adjustments	=	107.84	KVA
New Calculated Demand Load Added	Elevator	+	49.14 KVA
Metered Demand Based CALCULATED DEMAND LOAD :			156.98 KVA
CALCULATED DEMAND CURRENT :			436 AMPS
Note: See WAC 296-46B-900 (3)(j) for additional metering requirements			

KCHA EASTRIDGE ELEVATOR MODERNIZATION 30 DAY PEAK DEMAND CALCULATION WORKSHEET 175A PANEL EMG at PANEL EMG (MP#2)			
NEC 220.87 AND WAC 296-46B-900(3)(j)			
30-day demand study from :	2021-03-09	to	2021-04-09
Phase to Phase Voltage (Volts) :	208		
Phases (1=Single Phase, 3=Three Phase) :	3		
30 Day Peak Demand On :	2021-04-09	=	19.33 Amps
Apparent Peak Demand	=	6.96	KVA
NEC 220.87(2) adjustment factor	X	1.25	
Adjusted Peak Demand	=	8.70	KVA
Seasonal adjustment factor	X	1.00	
Seasonal adjustment peak demand	=	8.70	KVA
Occupancy adjustment factor	X	1.00	
Occupancy adjustment peak demand	=	8.70	KVA
Other adjustment factor(s)	X	1.00	
Measured Peak Demand with Adjustments	=	8.70	KVA
New Calculated Demand Load Added	Panel ELEV	+	5.01 KVA
Metered Demand Based CALCULATED DEMAND LOAD :			13.72 KVA
CALCULATED DEMAND CURRENT :			38 AMPS
Note: See WAC 296-46B-900 (3)(j) for additional metering requirements			

KCHA EASTRIDGE ELEVATOR MODERNIZATION 30 DAY PEAK DEMAND CALCULATION WORKSHEET 600A PANEL H3 at MAIN SWITCHBOARD (MP#3)			
NEC 220.87 AND WAC 296-46B-900(3)(j)			
30-day demand study from :	2021-03-09	to	2021-04-09
Phase to Phase Voltage (Volts) :	208		
Phases (1=Single Phase, 3=Three Phase) :	3		
30 Day Peak Demand On :	2021-03-31	=	21.98 Amps
Apparent Peak Demand	=	7.92	KVA
NEC 220.87(2) adjustment factor	X	1.25	
Adjusted Peak Demand	=	9.90	KVA
Seasonal adjustment factor	X	1.00	
Seasonal adjustment peak demand	=	9.90	KVA
Occupancy adjustment factor	X	1.00	
Occupancy adjustment peak demand	=	9.90	KVA
Other adjustment factor(s)	X	1.00	
Measured Peak Demand with Adjustments	=	9.90	KVA
New Calculated Demand Load Added	Elevator	+	49.14 KVA
Metered Demand Based CALCULATED DEMAND LOAD :			59.04 KVA
CALCULATED DEMAND CURRENT :			164 AMPS
Note: See WAC 296-46B-900 (3)(j) for additional metering requirements			

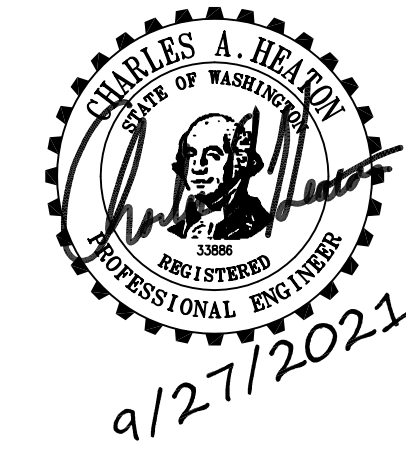


1 ELECTRICAL ONE-LINE DIAGRAM
DIAGRAMMATIC

PANEL: H3 SECTION 1 (EXISTING)		3 PH		4 WIRE		VOLTAGE: 208Y/120V		600A MLO								
LOC:		MOUNT: SURFACE		FEED: BOTTOM												
TYPE: NEMA 1		POLES: 24		SF MAINS: NO				10,000AIC MINIMUM								
LOAD TYPE	LOAD	CIRCUIT DIRECTORY	CIR. NO.	CIR. BRKR P	AMP	A	B	C	CIR. BRKR P	AMP	CIR. NO.	CIRCUIT DIRECTORY	LOAD	LOAD TYPE		
		H3 SECTION 2	1	3							2	H3 SECTION 2				
			3											4		
			5											6		
			7											8		
		H3 SECTION 2	9		400						10	H3 SECTION 2				
			11										12			
		SPACE	13				3333			3			14	(19)	3333	H
		SPACE	15					3333					16	HEATER SO. COMMUNITY RM.	3333	H
		SPACE	17					3333			40	18		3333	H	
		SPACE	19			3333						20	(21)	3333	H	
ML	1500	CABINET HEATER FAN, COM. RM (7)	21	1	20		4833		3		22	HEATER NO. COMMUNITY RM.	3333	H		
ML	1500	EXHAUST FAN MOTORS, COM. RM (11)	23	1	20			4833			40		24	3333	H	
		3000 TOTAL	THIS PANEL->			6667	8167	8167				TOTAL	20000			
SLAVE PANEL->		H3 SECTION 2 (EXISTING)				28167	27417	26667								
		LIGHTING(125%) = 0.00				34833	35583	34833								
		RECEPTS<=10000(100%) = 0.00			LARGEST MOTOR(125%) = 1875.00			KITCHEN LOADS(65%) = 0.00			TOTAL CONNECTED LOAD (VA): 105,250.00					
		RECEPTS>10000(50%) = 0.00			OTHER MOTORS(100%) = 3750.00			APPLIANCES(100%) = 0.00			TOTAL CONNECTED CURRENT (A): 292.14					
		RECEPTS TOTAL = 0.00			MOTOR TOTAL = 5625.00			DEDICATED(100%) = 0.00			TOTAL DEMAND LOAD (VA): 105,625.00					
		ELECTRIC HEAT(100%) = 100000.00			WATER HEATERS(100%) = 0.00			MISC(100%) = 0.00			TOTAL DEMAND CURRENT (A) 293.19					
NOTES: L=LIGHTING, R=RECEPTACLES, H=ELECTRIC HEAT, ML=LARGEST MOTOR, MO=OTHER MOTORS, WH=WATER HEATERS, K=KITCHEN LOADS, A=APPLIANCES, D=DEDICATED, X=MISC, SF=SUB FEED																

PANEL: H3 SECTION 2 (EXISTING)		3 PH		4 WIRE		VOLTAGE: 208Y/120V		400A MLO															
LOC:		MOUNT: SURFACE		FEED: BOTTOM																			
TYPE: NEMA 1		POLES: 36		SF MAINS: NO		10,000AIC MINIMUM																	
LOAD TYPE	LOAD	CIRCUIT DIRECTORY	CIR. NO.	CIR. P	BRKR AMP	A	B	C	CIR. P	BRKR AMP	CIR. NO.	CIRCUIT DIRECTORY	LOAD	LOAD TYPE									
ML	750	CABINET HEATER MOTORS (1)	1	1	15	1500			1	15	2	CABINET HEATER MOTORS (2)	750	ML									
ML	750	CABINET HEATER MOTORS (3)	3	1	15		750		1	15	4	SPARE (4)											
		SPARE (5)	5	1	15				1	15	6	SPARE (6)											
		SPARE (7)	7	1	15				3		8												
		SPARE (9)	9	1	15						10	SPARE											
		SPARE (11)	11	1	15					50	12												
H	3333	(13)	13	3		3333			3		14												
H	3333	1ST FLOOR CABINET HEATER WEST	15				3333				16	SPARE											
H	3333		17		40			3333		50	18												
H	3333	(15)	19	3		7500			3		20	(18)	4167	H									
H	3333	1ST FLOOR CABINET HEATER CENTER	21				7500				22	2ND FLOOR CABINET HEATER NORTH	4167	H									
H	3333		23		40			7500		50	24		4167	H									
H	3333	(17)	25	3		7500			3		26	(20)	4167	H									
H	3333	1ST FLOOR CABINET HEATER NORTH	27				7500				28	3RD FLOOR CABINET HEATER WEST	4167	H									
H	3333		29		40			7500		50	30		4167	H									
H	4167	(24)	31	3		8333			3		32	(22)	4167	H									
H	4167	3RD FLOOR CABINET HEATER NORTH	33				8333				34	3RD FLOOR CABINET HEATER CENTER	4167	H									
H	4167		35		50			8333		50	36		4167	H									
	44000	TOTAL	THIS PANEL->			28167	27417	26667	TOTAL			38250											
						28167	27417	26667	TOTAL CONNECTED LOAD (VA): 82,250.00 TOTAL CONNECTED CURRENT (A): 228.30 TOTAL DEMAND LOAD (VA): 82,437.50 TOTAL DEMAND CURRENT (A) 228.82														
LIGHTING(125%) = 0.00						LARGEST MOTOR(125%) = 937.50									KITCHEN LOADS(65%) = 0.00								
RECEPTS<=10000(100%) = 0.00						OTHER MOTORS(100%) = 1500.00									APPLIANCES(100%) = 0.00								
RECEPTS>10000(50%) = 0.00						MOTOR TOTAL = 2437.50									DEDICATED(100%) = 0.00								
ELECTRIC HEAT(100%) = 80000.00						WATER HEATERS(100%) = 0.00						MISC(100%) = 0.00											
NOTES: L=LIGHTING, R=RECEPTACLES, H=ELECTRIC HEAT, ML=LARGEST MOTOR, MO=OTHER MOTORS, WH=WATER HEATERS, K=KITCHEN LOADS, A=APPLIANCES, D=DEDICATED, X=MISC, SF=SUB FEED																							

PANEL: H3 SECTION 1 (NEW)		3 PH		4 WIRE		VOLTAGE: 208Y/120V				600A MLO					
LOC:		MOUNT: SURFACE				FEED: BOTTOM									
TYPE: NEMA 1		POLES: 18				SF MAINS: NO				10,000AIC MINIMUM					
LOAD TYPE	LOAD	CIRCUIT DIRECTORY	CIR. NO.	CIR. BRKR P	AMP	A	B	C	CIR. BRKR P	AMP	CIR. NO.	CIRCUIT DIRECTORY	LOAD	LOAD TYPE	
		H3 SECTION 2	1	3	400						2				
			3									4			
			5									6			
ML	16320	ELEVATOR MOTOR	7	3	200	19653			3		8	(19)	3333	H	
ML	16320		9				19653				10	HEATER SO. COMMUNITY RM.	3333	H	
ML	16320		11					19653			12		3333	H	
		SPACE	13			3333			3		14	(21)	3333	H	
ML	1500	CABINET HEATER FAN, COM. RM (7)	15	1	20		4833				16	HEATER NO. COMMUNITY RM.	3333	H	
ML	1500	EXHAUST FAN MOTORS, COM. RM (11)	17	1	20			4833		40	18		3333	H	
51960		TOTAL THIS PANEL->				22987	24487	24487	TOTAL				20000		
SLAVE PANEL->		H3 SECTION 2 (EXISTING)				28167	27417	26667							
						51153	51903	51153							
		LIGHTING(125%) = 0.00				LARGEST MOTOR(125%) = 61200.00				KITCHEN LOADS(65%) = 0.00					
		RECEPTS<=10000(100%) = 0.00				OTHER MOTORS(100%) = 5250.00				APPLIANCES(100%) = 0.00					
		RECEPTS>10000(50%) = 0.00				MOTOR TOTAL = 66450.00				DEDICATED(100%) = 0.00					
		RECEPTS TOTAL = 0.00				WATER HEATERS(100%) = 0.00				MISC(100%) = 0.00					
		ELECTRIC HEAT(100%) = 100000.00													
TOTAL CONNECTED LOAD (VA): 154,210.00															
TOTAL CONNECTED CURRENT (A): 428.04															
TOTAL DEMAND LOAD (VA): 166,450.00															
TOTAL DEMAND CURRENT (A) 462.02															
NOTES: L=LIGHTING, R=RECEPTACLES, H=ELECTRIC HEAT, ML=LARGEST MOTOR, MO=OTHER MOTORS, WH=WATER HEATERS, K=KITCHEN LOADS, A=APPLIANCES, D=DEDICATED, X=MISC, SF=SUB FEED															



KCHA
EASTRIDGE
ELEVATOR
MODERNIZATION

100% CD

120 W. SUNSET WAY
ISSAQUAH, WA 98027

Drawn by: JL
Checked: BM
Date: 5/21/2021
Scale: As indicated

Revisions:
No. Date Remarks

PANEL SCHEDULES

E6.2