ELEVATOR MODERNIZATION
RHODE ISLAND STATE HOUSE

PROVIDENCE, RHODE ISLAND

SACCOCCIO
& ASSOCIATES, INC.
architects

1085 Park Avenue
Cranston, R.I. 02910

STRUCTURES ENGINEERING AND DESIGN
STRUCTURAL ENGINEERS

ENGINEERING DESIGN SERVICES, INC
MECHANICAL, ELECTRICAL, PLUMBING AND FIRE PROTECTION ENGINEERS

SEPTEMBER 26, 2018

ABBREVIATIONS

@	At
A/C	Air Conditioning
ACT	Acoustical Tile
A.D.	Area Drain
A.F.F.	Above Finish Floor
ALT.	Alternate
ALUM.	Aluminum
A.P.	Access Panel
APPROX.	Approximately
ARCH.	Architect(ural)
BD.	Board
BBD.	Bulletin board
BIT.	Bituminous
BLDG.	Building
BLK.	Block
BLKBD.	Blackboard
BLKNG.	Blocking
BM.	Beam
B.M.	Bench Mark
BOT.	Bottom
BRKT.	Bracket
BSMT.	Basement
BTW.	Between
cl	Center Line
CAB.	Cabinet
C.B.U.	Cinder Block Unit
C.B.	Catch Basin or Chalkboard
CEM.	Cement/Cementitious
CFB	Cement Fiber Board
CFM	Cubic Feet per Minute
C.I.	Caste Iron
C.J.	Control Joint
CLG.	Ceiling
CLOS.	Closet
CMU	Concrete Masonry Unit
C.O.	Clean Out
COL.	Column
COMP.	Composition
CONC.	Concrete
CONST.	Construction
CONT.	Continuous
CONTR.	Contractor
CORR.	Corridor
CPT.	Carpet
CSK.	Countersink
C.T.	Ceramic Tile
CU	Copper
C.W.	Cold Water
D.F.	Drinking Fountain
D.H.	Double Hung
DIA.	Diameter
DIM.	Dimension
DN	Down
D.P.	Dampproofing
DR.	Door
DTL.	Detail
DWG.	Drawing
E	East
EA.	Each
EC	Electrical Cabinet
EJ.	Expansion Joint
EL.	Elevation(Grade)
ELEC.	Electrical
ELEV.	Elevation (Facade)
EML	Expanded Metal Lath
ENCL.	Enclosure
E.P.	Electrical Panelboard
EQ.	Equal
EQP.	Equipment
EWB	Electric White Board
EWC	Electric Water Cooler
EWH	Electric Water Heater
EXC.	Excavated
EXIST.	Existing
EXP.	Exposed
EXT.	Exterior
F.A.	Fire Alarm
FB	Fiber Board
FC	Fire Code
F.C.U.	Fancoil unit
F.D.	Floor Drain
FDN.	Foundation
FEC	Fire Extinguisher Cabinet
FIN.	Finish or Finished
FL.	Floor
FLUOR.	Fluorescent
FOC	Face of Concrete
FOF	Face of Finish
FOM	Face of Masonry
FOS	Face of Stud
FR	Fire Rated
FRCP	Feet or Foot
FT (')	Fiber Reinforced Cement Board
FTG.	Footing
GA.	Gauge
GALV.	Galvanized
G.B.	Gypsum Board
G.C.	General Contractor
GL.	Glass
GRN.	Granite
GWB.	Gypsum Wall Board
GYP.BD.	Gypsum Board
HC	Hose Cabinet
H.M.	Hollow metal
H.P.	Handicapped Person (Handicapped Accessible)
HR.	Hour
H.S.	Hook Strip
HT.	Height
HTR.	Heater
HVAC	Heating, Ventilating, Air Conditioning
H.W.	Hot Water
I.D.	Inside Diameter
IN.(")	Inches or Inch
INCL.	Including or Included
INSUL.	Insulation
INT.	Interior
INV.	Invert
JAN.	Janitor Closet
JT.	Joint
LAM.	Laminated
LAV.	Lavatory
LB.(#)	Pound
LMF.	Light Gauge Metal Framing
L.P.	Low Point
LT.WT.	Light Weight
LVR.	Louver
MACH.	Machine
MAS.	Masonry
MAX.	Maximum
MECH.	Mechanical
MEMB.	Membrane
MFR.	Manufacturer
M.H.	Man Hole
MIN.	Minimum
MISC.	Miscellaneous
M.O.	Masonry Opening
M.P.S.	Projection Screen
M.R.	Moisture Resistant
MTL.	Metal
MWK.	Millwork
N.	North
N.C.	Non-Corrosive
NE	Northeast
NIC	Not in Contract
NO.(#)	Number
NOM.	Nominal
NTS	Not to Scale
NW	Northwest
O.A.	Overall
O.C.	On Center
O.D.	Outside Diameter
OH	Opposite Hand
OPNG.	Opening
OPP.	Opposite
OZ.	Ounce
d	Penny
PCS.	Pieces/Piece
LB.(#)	Pound
PL.	Plate
PTN.	Partition
PERIM.	Perimeter
PL.LAM.	Plastic Laminate
PLAS.	Plastic/Plaster
PLYWD.	Plywood
PMJF.	PreMolded Joint Filler
POL.	Polished
PR	Pair
PROJ.SCR.	Projection Screen
PSI	Pound(s) per Square Inch
PT.	Paint
PTD.	Painted
PVC	Poly Vinyl Chloride
QTY.	Quantity
R	Riser
R.A.	Return Air
RAD.	Radius
RB.	Rubber Base
RD.	Roof Drain
REFG.	Refrigerator
REINF.	Reinforced
REQD.	Required
RESIL.	Resilient
RG	Reinforced Gypsum
RM.	Room
RND	Round
R.O.	Rough Opening
ROW	Right of Way
(S)	Sealant
S.	South
S.C.	Solid Core
SCHED.	Schedule
SE	Southeast
SECT.	Section
SF	Square Feet
SHT.	Sheet
SIM.	Similar
SLNT.	Sealant
S.P.	Standpipe
SPECS.	Specifications
SQ.	Square
SS.	Stainless Steel
ST.	Street
STD.	Standard
STL.	Steel
STOR.	Storage
STRUCT.	Structural
SUSP.	Suspended
SW	Southwest
SYM.	Symmetrical
T.	Tread
T&G	Tongue & Groove
T.B.	Tackboard
TEMP.	Temperature/Tempered
THK.	Thickness/Thick
THR.	Threshold
THRU	Through
TLT.	Toilet
TOC	Top of Concrete
TOS.	Top of Steel
TYP.	Typical
U.L.	Underwriters Laboratory
V.	Veneer
VAR.	Varies
V.B.	Vinyl Base
VCT	Vinyl Compostion Tile
VERT.	Vertical or Vertically
VEST.	Vestibule
V.I.F.	Verify in Field
VOL.	Volume
V.T.	Vinyl Tile
VTR	Vent through Roof
VWC	Vinyl Wall Covering
W.	West
W/	With
WB	White Board
WCL	Water Cooler
WCL-A	Water Cooler - Accessible
WC	Water Closet
WD.	Wood
WDW	Window
W.H.	Wall Hung
W.I.	Wrought Iron
W/O	Without
WP.	Waterproofing
WPM	Waterproofing Membrane
WT.	Weight
W.W.G.	Woven Wire Grille
W.W.M.	Welded Wire Mesh

MATERIALS IN SECTION

- EARTH
- CONCRETE
- BRICK
- CONCRETE MASONRY UNITS (CMU)
- RIGID INSULATION
- BLANKET INSULATION
- PLYWOOD
- ROUGH WOOD
- DRYWALL
- METAL (LARGE SCALE)

SYMBOLS

X100	ROOM NUMBER
2 / A2.1	DETAIL REFERENCE
00 / 000	INTERIOR ELEVATION REFERENCE
A / D / A2.1 / B / C	INTERIOR ELEVATION REFERENCE

GENERAL NOTES

THE CONTRACTOR/S SHALL:

1. UNDERSTAND THAT THE TERM "PROVIDE" AS FOUND THROUGHOUT THESE CONSTRUCTION DOCUMENTS SHALL BE DEFINED AS "FURNISH AND INSTALL".
2. VISIT THE JOB SITE AND FAMILIARIZE THEMSELVES COMPLETELY WITH ALL EXISTING CONDITIONS RELATIVE TO THE NEW WORK CALLED FOR ON THE DRAWINGS AND SPECIFICATIONS. NO COMPENSATION FOR EXTRA WORK ON BEHALF OF THE CONTRACTOR WILL BE CONSIDERED THAT WOULD HAVE BEEN DETERMINED BY VISUAL OBSERVATION PRIOR TO BIDDING.
3. UNDERSTAND THAT THE TERM "MATCH EXISTING" AS LISTED ON THESE DRAWINGS SHALL MEAN THAT ALL WORK TO BE PERFORMED MUST BE OF SIMILAR MATERIALS, CONSTRUCTION AND FINISHED TO THE LINES OF ADJACENT WORK IN ALL RESPECTS.
4. BE RESPONSIBLE FOR ALL CUTTING, FILLING, PATCHING AND/OR REPAIRING OF EXISTING WALLS, FLOORS AND CEILINGS AS REQUIRED FOR THE INSTALLATION OF ALL NEW MECHANICAL, ELECTRICAL AND PLUMBING WORK IN THE EXISTING BUILDING. (VERIFY ALL CONDITIONS AT THE SITE).
5. PATCH AND REPAIR ALL WALLS, FLOORS, AND CEILINGS IN ALL AREAS AFFECTED BY DEMOLITION WORK. ALL WORK TO BE PERFORMED MUST BE OF SIMILAR MATERIALS, CONSTRUCTION AND FINISHED TO THE LINES OF ADJACENT WORK IN ALL RESPECTS.
6. SHALL COORDINATE ALL MECHANICAL, ELECTRICAL AND PLUMBING WORK WITH THE ARCHITECTURAL DRAWINGS PRIOR TO PROCEEDING WITH THE NEW WORK IN ALL AREAS.
7. PROVIDE DUST PARTITIONS AS REQUIRED TO KEEP AREAS OUTSIDE OF SCOPE FREE OF DIRT AND DUST. THE GENERAL CONTRACTOR WILL BE RESPONSIBLE FOR CLEANING ANY AREAS LEFT UNPROTECTED.
8. BE RESPONSIBLE FOR CLEANING THE WORK AREA AT THE END OF EACH WORK DAY. ALL TRASH AND DEBRIS TO BE REMOVED FROM THE BUILDING.
9. REPLACE OR REPAIR ANY DISTURBED AREAS IN AND OUTSIDE THE WORK LIMITS AREA.

DRAWING LIST

GENERAL
- AG1.0 DRAWING LIST, NOTES, LEGEND

ARCHITECTURAL
- A1 FLOOR PLANS
- A2 DETAILS & ELEVATIONS
- A3 DETAILS

STRUCTURAL
- S1.0 FRAMING PLANS & DETAILS

MECHANICAL
- M1 NEW WORK ELEVATOR MACHINE ROOM PLANS & NOTES

ELECTRICAL
- E1 EXISTING ELEVATOR MACHINE ROOM PLANS & NOTES
- E2 NEW WORK ELEVATOR MACHINE ROOM PLANS & NOTES

CODE INFORMATION

CODE LIST:

- International Building Code (2012 Edition) along with the Rhode Island State Building Code SBC 1 - 2013 with Amendments)
- ICC / ANSI A117.1 - 2009 Edition
- The Rhode Island Fire Safety Code January 1, 2013
- The State of Rhode Island Elevator Safety Code 2012

PROJECT DESCRIPTION:

Modernization of two existing elevators by replacing all existing equipment and controls with new equipment and controls. Interior of elevator cab is to be restored to like-new condition.

ADDITIONAL INFORMATION:

Our Architectural firm renovated these two elevators in the year 2000 (except the elevator machines were not replaced).
At that time, the shaft and machine room were evaluated by the State Building Commissioner Dan DeDentro and the State Elevator Chief Inspector Virtus Heywood.
Their conclusion was that they would not require either area to be brought up to current code requirements due to the limitations set forth by being both an existing and historically significant building. Specifically, this referred to the fire rating requirements and existing piping traversing the shaft.
Every effort during construction was made to firestop all penetrations into the shaft and bring the areas up to code as much as possible.
The size of the elevator cabs are also 2 inches less in depth than the code requires.
Due to shaft limitations, the cars were not able to be enlarged. The State Building Commissioner and the Governor's Commission on Disabilities agreed that for the same reasons noted above, the existing conditions were acceptable.
Dan DeDentro also reviewed and determined that the cabs were adequately sized for transportation of an ambulance stretcher.

STEVEN GUGLIELMO No. 2220 REGISTERED ARCHITECT

SG architects

SACCOCCIO & ASSOCIATES, INC.

1085 Park Avenue
Cranston, R.I. 02910

tel 401. 942. 7970
fax 401. 942. 7975

CONSULTANT

ELEVATOR MODERNIZATION
AT THE
RHODE ISLAND STATE HOUSE
PROVIDENCE
RHODE ISLAND

NOTES:

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SHEET TITLE

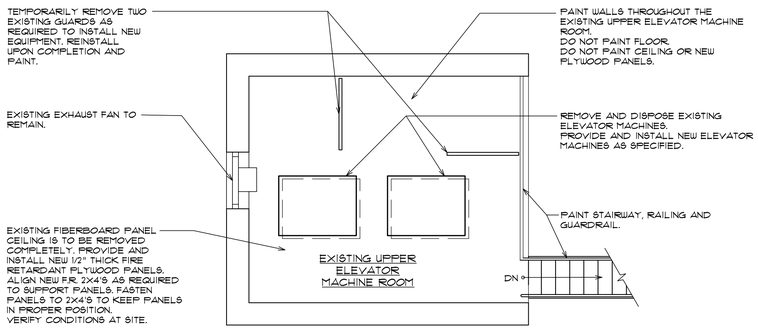
DRAWING LIST, NOTES & LEGEND

REVISIONS

DRAWN: VL	DATE: 08-26-2018
CHK BY: SG	JOB NO: 18028

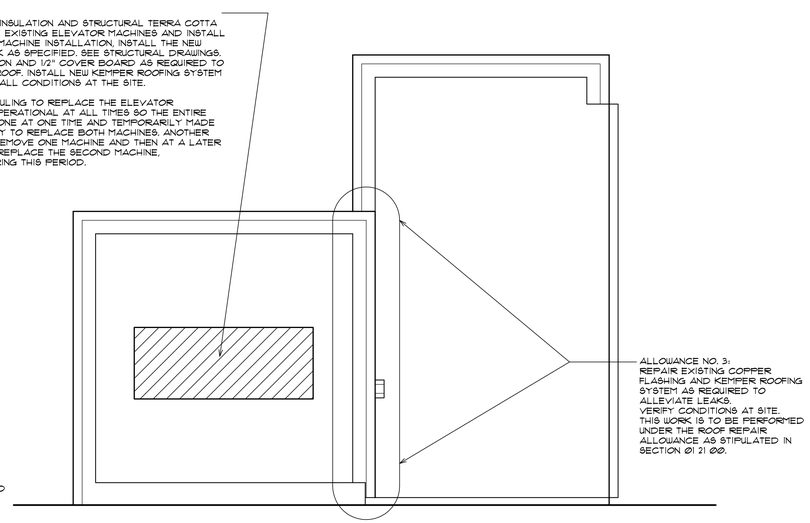
AG1.0

SHEET OF

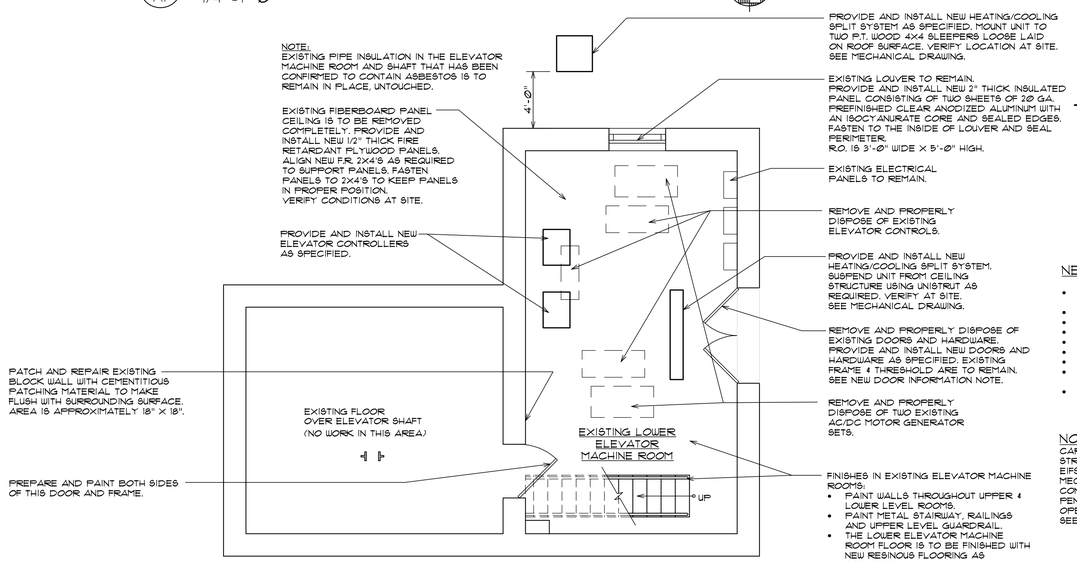


C / A1 ELEVATOR MACHINE ROOM UPPER LEVEL
1/4" = 1'-0"

BASE BID:
CUT OPENING THROUGH EXISTING ROOFING, INSULATION AND STRUCTURAL TERRA COTTA ROOF DECK AS REQUIRED TO REMOVE THE EXISTING ELEVATOR MACHINES AND INSTALL THE NEW MACHINES. UPON COMPLETION OF MACHINE INSTALLATION, INSTALL THE NEW STRUCTURAL STEEL AND STEEL ROOF DECK AS SPECIFIED. SEE STRUCTURAL DRAWINGS. INSTALL NEW POLYISOCYANURATE INSULATION AND 1/2" COVER BOARD AS REQUIRED TO MATCH LEVEL WITH EXISTING SURFACE OF ROOF. INSTALL NEW KEMPER ROOFING SYSTEM AS REQUIRED TO MATCH EXISTING. VERIFY ALL CONDITIONS AT THE SITE.
NOTE:
COORDINATE THIS ROOF WORK WITH SCHEDULING TO REPLACE THE ELEVATOR MACHINES. ONE ELEVATOR MUST REMAIN OPERATIONAL AT ALL TIMES SO THE ENTIRE OPENING IN THE ROOF MAY NEED TO BE DONE AT ONE TIME AND TEMPORARILY MADE WATERTIGHT FOR THE DURATION NECESSARY TO REPLACE BOTH MACHINES. ANOTHER OPTION IS TO PROVIDE ONE OPENING TO REMOVE ONE MACHINE AND THEN AT A LATER DATE PROVIDE THE SECOND OPENING TO REPLACE THE SECOND MACHINE, TEMPORARILY SEALING THE OPENINGS DURING THIS PERIOD. CONTRACTOR'S OPTION.



D / A1 ELEVATOR MACHINE ROOM ROOF PLAN
1/4" = 1'-0"

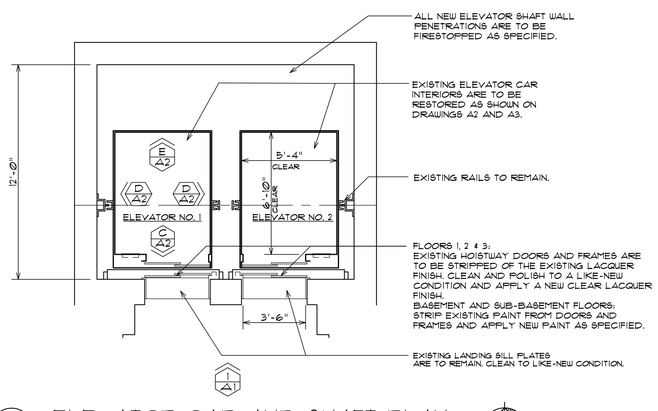


B / A1 ELEVATOR MACHINE ROOM LOWER LEVEL
1/4" = 1'-0"

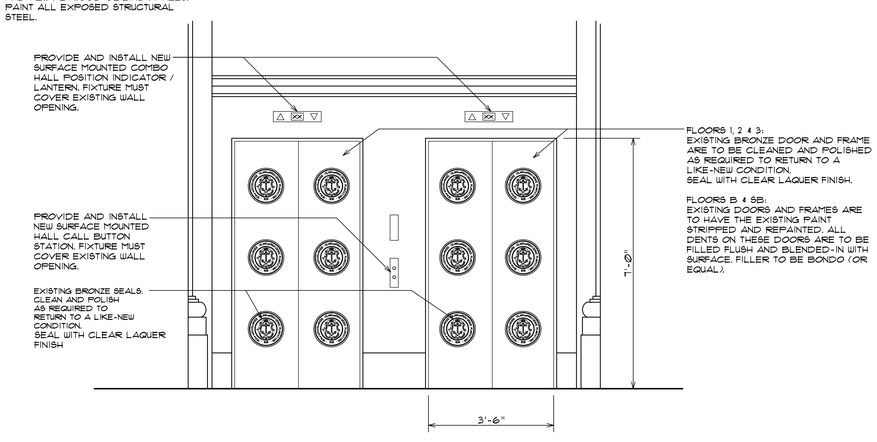
NEW DOOR INFORMATION

- PROVIDE AND INSTALL NEW GALVANIZED, FIRE RATED STEEL PAIR OF DOORS AS SPECIFIED.
- NO VISION PANELS
- PROVIDE TWO LEAFS 2'-8" WIDE X 6'-8" HIGH.
- EXISTING STEEL FRAME IS TO REMAIN.
- HARDWARE TO BE SET # AS SPECIFIED.
- PROVIDE NEW WEATHERSTRIPPING AS SPECIFIED.
- PREPARE AND PAINT NEW DOORS.
- FILL ALL HOLES IN EXISTING STEEL DOOR FRAME FLUSH WITH SURROUNDING SURFACE.
- STRIP EXISTING PAINT THEN PREPARE AND PAINT EXISTING FRAME AND THRESHOLD.

NOTE:
CAREFULLY CORE DRILL THROUGH EXISTING STRUCTURAL TERRA-COTTA EXTERIOR WALLS & EIFS AS REQUIRED TO INSTALL NEW MECHANICAL CONDUITS, PIPING AND CONDENSATE LINES. CAULK AROUND PENETRATIONS. VERIFY EXACT LOCATIONS OF OPENINGS AT SITE.
SEE MECHANICAL DRAWINGS.



A / A1 ELEVATOR CAB AND SHAFT PLAN
1/4" = 1'-0"



1 / A1 HOISTWAY DOOR ELEVATION
1/2" = 1'-0"

STEVEN GUGLIELMO No. 2220 REGISTERED ARCHITECT

S/A architects

SACCOCCIO & ASSOCIATES, INC.

1085 Park Avenue tel 401. 942. 7970
Cranston, R.I. 02910 fax 401. 942. 7975

CONSULTANT

ELEVATOR MODERNIZATION AT THE RHODE ISLAND STATE HOUSE

PROVIDENCE
RHODE ISLAND

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SHEET TITLE

FLOOR PLANS

REVISIONS

DRAWN: VL	DATE: 09-26-2018
CHK BY: SG	JOB NO: 18028

A1

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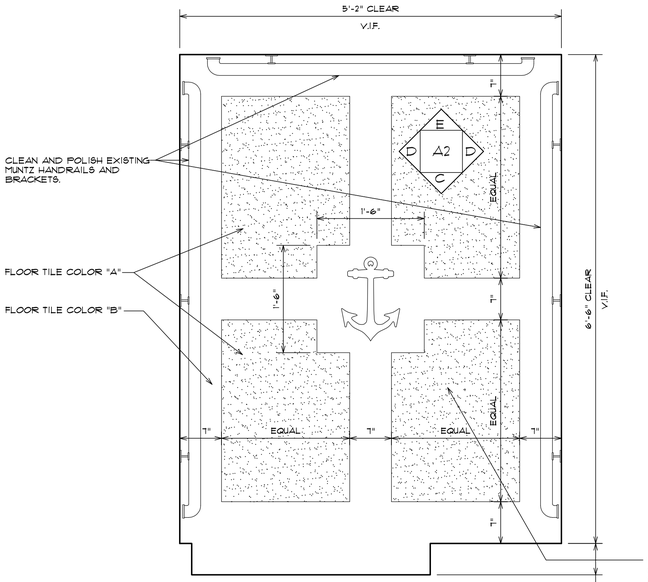
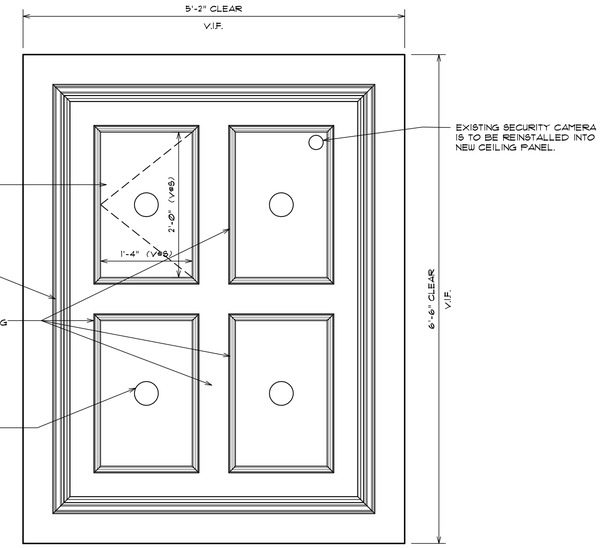


FLOORING REPLACEMENT:
CAREFULLY REMOVE AND SAVE EXISTING BRONZE ANCHOR FOR REINSTALLATION. REMOVE AND DISPOSE EXISTING RESILIENT TILE FLOORING & SUBFLOOR AND INSTALL NEW PLYWOOD SUBFLOOR. PROVIDE AND INSTALL NEW RESILIENT TILE FLOORING AS SPECIFIED WITH EXISTING BRONZE ANCHOR FASTENED INTO THE CENTER AS SHOWN. NEW FLOORING WILL NEED TO BE CUT TO MATCH SHAPE OF ANCHOR. TILE IS TO CONSIST OF TWO COLORS IN PATTERN SHOWN.

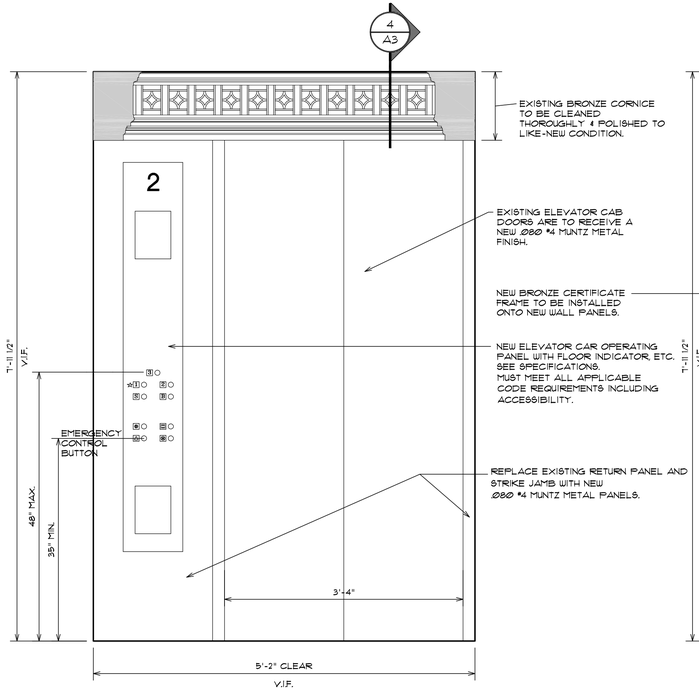
A / A2 FLOOR FINISH PLAN
1" = 1'-0"



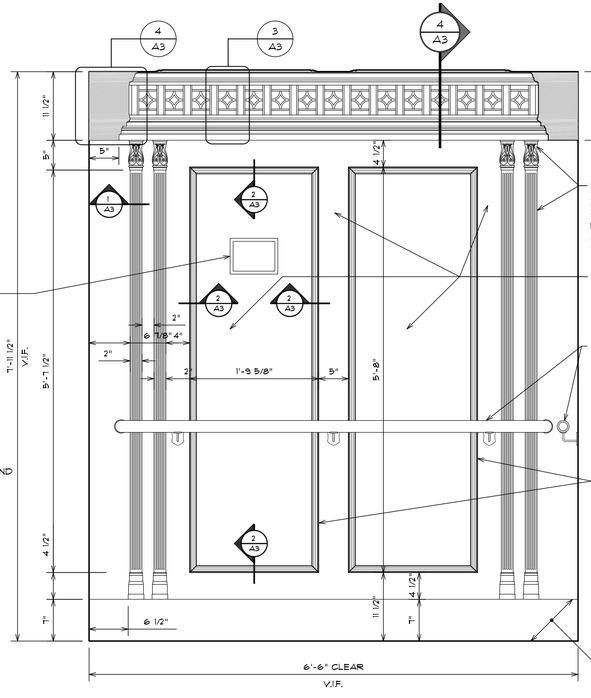
B / A2 REFLECTED CEILING PLAN
1" = 1'-0"

NOTE:
REPLACE THE FOLLOWING DAMAGED OR MISSING BRONZE COMPONENTS WITH NEW SOLID BRONZE ITEMS TO MATCH EXISTING. VERIFY LOCATION OF ELEMENTS NEEDING REPLACEMENT AT THE SITE.

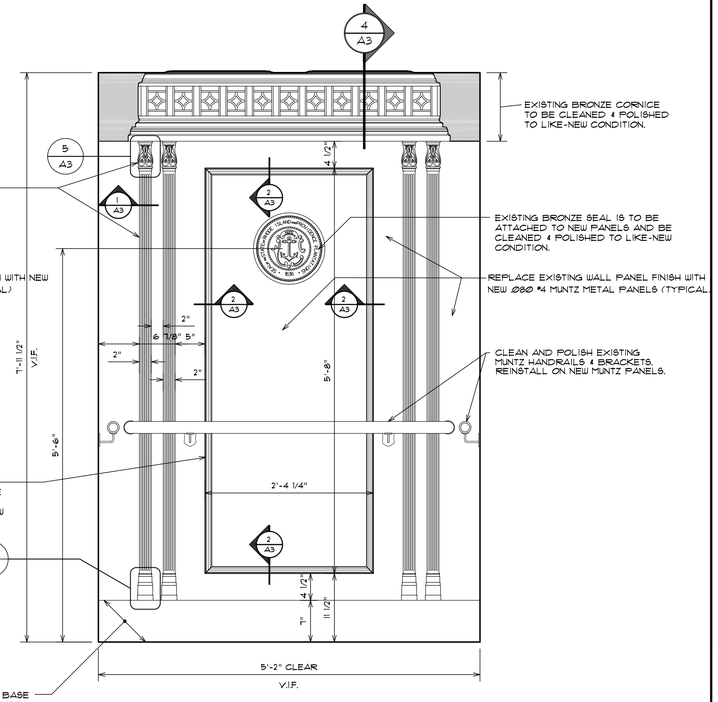
QUANTITY	COMPONENTS
FIVE	PILASTER (DETAIL 1/A3)
ONE	PILASTER CAPITAL (DETAIL 5/A3)
FIVE	PILASTER BASE (DETAIL 6/A3)
NINE	5'-8" LONG FRAME MOLDING (SEE DETAIL 2/A3)
FOUR	2'-4 1/4" LONG FRAME MOLDING (SEE DETAIL 2/A3)



C / A2 FRONT CAB ELEVATION
1" = 1'-0"
ELEVATOR NO. 1 IS OPPOSITE VIEW



D / A2 SIDE CAB ELEVATION
1" = 1'-0"



E / A2 REAR CAB ELEVATION
1" = 1'-0"

STEVEN GUGLIELMO
No. 2220
REGISTERED ARCHITECT

S/A architects

SACCOCCIO & ASSOCIATES, INC.

1085 Park Avenue
Cranston, R.I. 02910
tel 401. 942. 7970
fax 401. 942. 7975

CONSULTANT

ELEVATOR MODERNIZATION AT THE RHODE ISLAND STATE HOUSE

PROVIDENCE
RHODE ISLAND

NOTES:

ALL WORK SHOWN ON THIS DRAWING IS TYPICAL OF TWO ELEVATOR CARS.

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SHEET TITLE
DETAILS & ELEVATIONS

REVISIONS

DRAWN: VL	DATE: 09-26-2018
CHK BY: SG	JOB NO: 18028

A2

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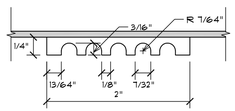
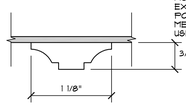


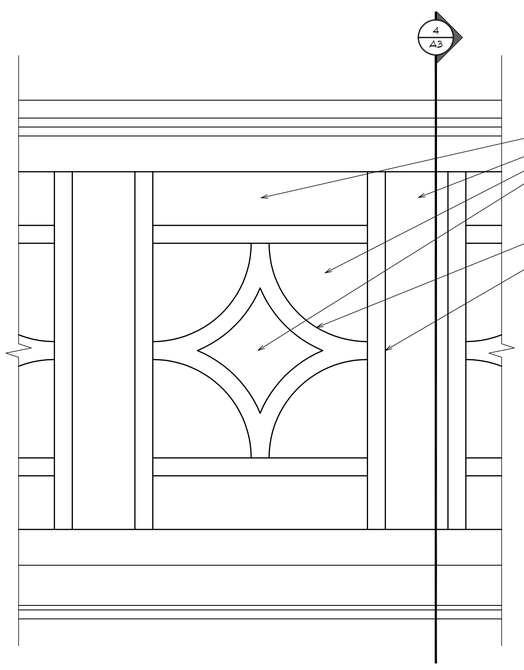
NOTE:
NEW BRONZE PILASTERS TO MATCH EXISTING PILASTER'S SIZE AND DESIGN. VERIFY AT SITE.
EXISTING PILASTERS ARE TO BE CLEANED AND POLISHED TO A LIKE-NEW CONDITION.
MECHANICALLY ATTACH TO NEW MUNTZ PANELS USING HIDDEN FASTENERS.

1 / A3 PILASTER DETAIL
FULL SCALE

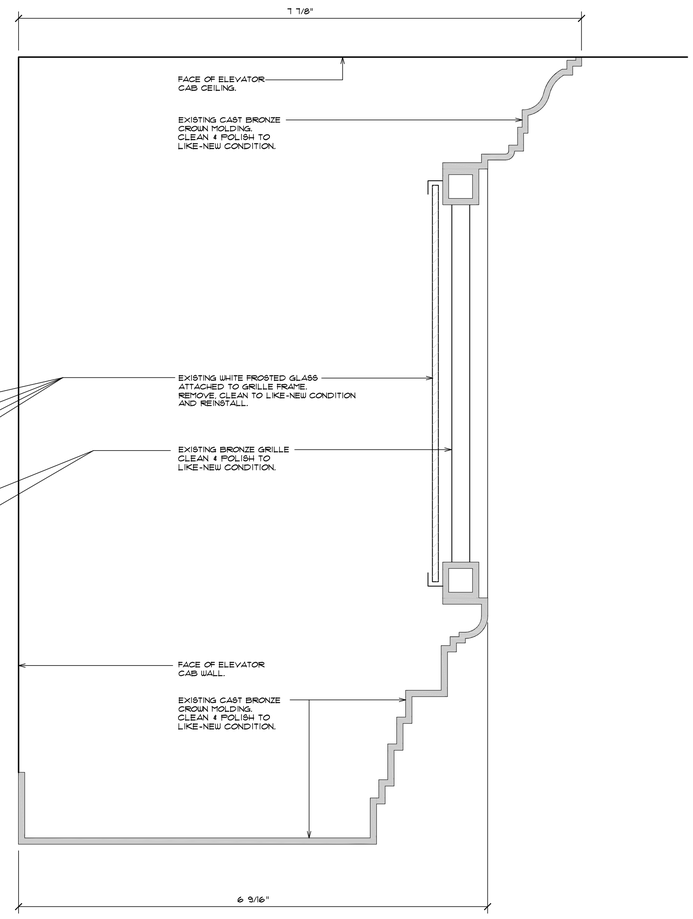
NOTE:
NEW BRONZE MOLDING TO MATCH EXISTING FRAME MOLDING SIZE AND DESIGN. VERIFY AT SITE.
EXISTING MOLDING IS TO BE CLEANED AND POLISHED TO A LIKE-NEW CONDITION.
MECHANICALLY ATTACH TO NEW MUNTZ PANELS USING HIDDEN FASTENERS.



2 / A3 FRAME MOLDING DETAIL
FULL SCALE



3 / A3 CORNICE ELEVATION
FULL SCALE

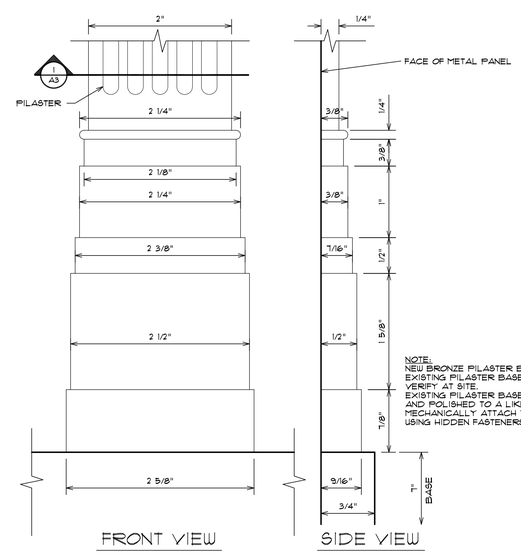


4 / A3 CORNICE DETAIL
FULL SCALE

NOTE:
NEW BRONZE PILASTER CAPITALS ARE TO MATCH EXISTING PILASTER CAPITAL SIZE AND DESIGN. VERIFY AT SITE.
EXISTING PILASTER CAPITALS ARE TO BE CLEANED AND POLISHED TO A LIKE-NEW CONDITION.
MECHANICALLY ATTACH TO NEW MUNTZ PANELS USING HIDDEN FASTENERS.

FRONT VIEW

5 / A3 PILASTER CAPITAL DETAIL
FULL SCALE



NOTE:
NEW BRONZE PILASTER BASES ARE TO MATCH EXISTING PILASTER BASE SIZE AND DESIGN. VERIFY AT SITE.
EXISTING PILASTER BASES ARE TO BE CLEANED AND POLISHED TO A LIKE-NEW CONDITION.
MECHANICALLY ATTACH TO NEW MUNTZ PANELS USING HIDDEN FASTENERS.

FRONT VIEW SIDE VIEW

6 / A3 PILASTER BASE DETAIL
FULL SCALE

STEVEN GUGLIELMO No. 2220 REGISTERED ARCHITECT

S/A architects

SACCOCCIO
& ASSOCIATES, INC.

1085 Park Avenue tel 401. 942. 7970
Cranston, R.I. 02910 fax 401. 942. 7975

CONSULTANT

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PROVIDENCE
RHODE ISLAND

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SHEET TITLE

DETAILS

REVISIONS

DRAWN: VL	DATE: 09-26-2018
CHK BY: SG	JOB NO: 18028

A3

SHEET OF

CODE REVIEW

ALL WORK IS TO BE DONE AND LOADS TO BE DETERMINED IN ACCORDANCE WITH THE FOLLOWING CODES AND STANDARDS:

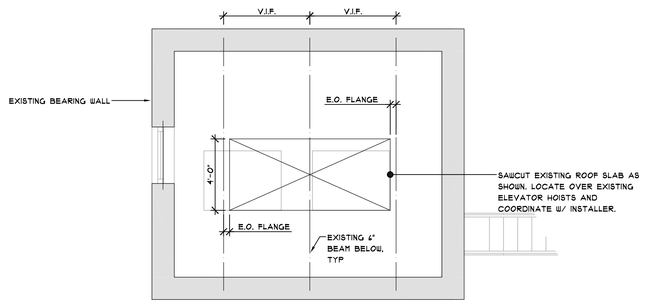
- RHODE ISLAND STATE BUILDING CODE, SBC-1-2013
- IBC 2012
- ASCE 7-10

GRAVITY LOADS

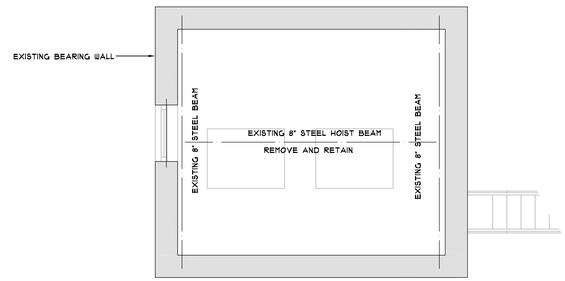
ROOF:
GROUND SNOW LOAD = 30 psf
ROOF SNOW LOAD = 30 psf
ROOF DL = 50 psf
SNOW DRIFTING AND SNOW SLIDING TO BE IN ACCORDANCE WITH R.I. STATE BUILDING CODE

DEFLECTION CRITERIA:

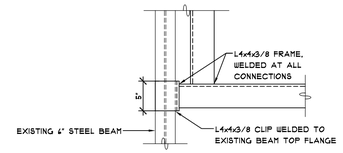
ROOF
LIVE LOAD: L/360
TOTAL LOAD: L/240



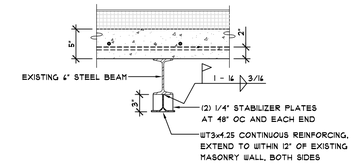
1A / S1.0 ROOF CUT-OUT PLAN
1/4" = 1'-0"



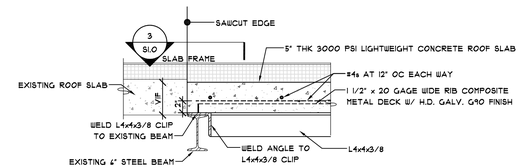
1B / S1.0 HOIST FRAMING PLAN
1/4" = 1'-0"



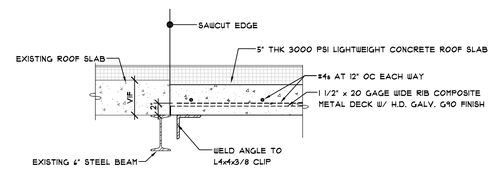
3 / S1.0 PLAN DETAIL
NEW SLAB FRAME AT SHOE
1" = 1'-0"



4 / S1.0 SECTION DETAIL
BEAM REINFORCING
1" = 1'-0"



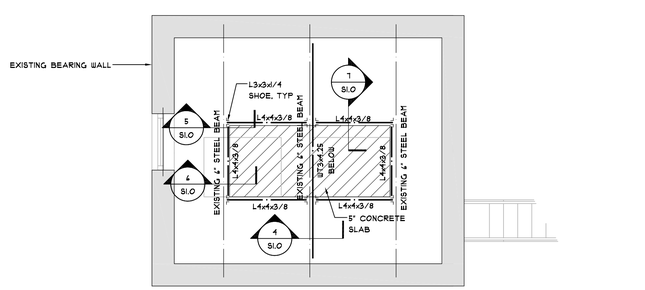
5 / S1.0 SECTION DETAIL
NEW SLAB FRAME AT SHOE
1" = 1'-0"



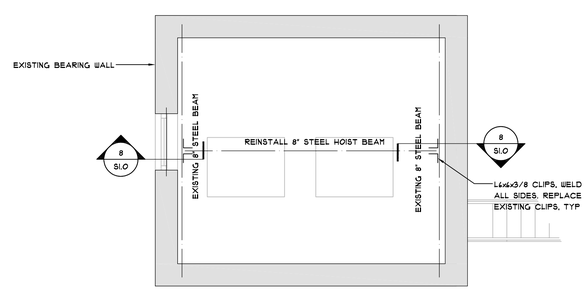
6 / S1.0 SECTION DETAIL
NEW SLAB FRAME
1" = 1'-0"

CALLED NORTH

1 / S1.0 DEMO PHASE



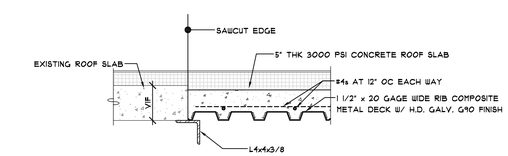
2A / S1.0 ROOF FRAMING PLAN
1/4" = 1'-0"



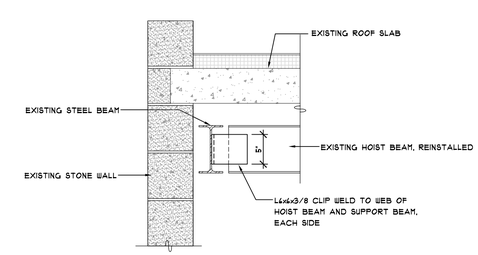
2B / S1.0 HOIST FRAMING PLAN
1/4" = 1'-0"

CALLED NORTH

2 / S1.0 RESTORATION PHASE



7 / S1.0 SECTION DETAIL
NEW SLAB FRAME
1" = 1'-0"



8 / S1.0 SECTION DETAIL
HOIST BEAM CLIPS
1" = 1'-0"

JEREMY JOSEPH PAGE
No. 8554
REGISTERED PROFESSIONAL ENGINEER (STRUCTURAL I)

architects

SACCOCCIO & ASSOCIATES, INC.

1085 Park Avenue
Cranston, R.I. 02910
tel 401. 942. 7970
fax 401. 942. 7975

CONSULTANT
STRUCTURES ENGINEERING AND DESIGN LLC
23 BURRILL RD
HARRISVILLE, RI 02830
401-258-6784
EMAIL@STRUCTURES-LLC.COM
WWW.STRUCTURES-LLC.COM

ELEVATOR MODERNIZATION AT THE RHODE ISLAND STATE HOUSE

PROVIDENCE
RHODE ISLAND

NOTES:

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SHEET TITLE
FRAMING PLANS AND DETAILS

REVISIONS

DRAWN: ART	DATE: 09-26-2018
CHK BY: JJP	JOB NO: 18028

S1.0

SHEET OF

GENERAL CONSTRUCTION NOTES

1. ALL WORK IS TO BE PERFORMED IN STRICT COMPLIANCE WITH LOCAL CODES AND ALL OTHER REGULATIONS GOVERNING WORK OF THIS NATURE.
2. THE CONTRACTOR IS RESPONSIBLE FOR ALL WORK, MATERIALS, AND LABOR TO SATISFY A COMPLETE WORKING SYSTEM WHETHER SPECIFIED OR IMPLIED.
3. THIS CONTRACTOR, PRIOR TO SUBMITTING HIS BID, SHALL VISIT THE PROJECT SITE TO FAMILIARIZE HIMSELF WITH ALL EXISTING CONDITIONS. REQUESTS FOR COMPENSATION FOR EXTRA WORK, WHICH WOULD HAVE BEEN EVIDENT BY COMPLIANCE WITH THE PREVIOUS STATEMENT, WILL NOT BE CONSIDERED. THE CONTRACTOR SHALL CONDUCT A THOROUGH FIELD INVESTIGATION TO VERIFY WORK SHOWN ON THE DRAWINGS. THE DRAWINGS REFLECT THE BEST AVAILABLE INFORMATION FROM EXISTING PLANS AND SITE INVESTIGATIONS.
4. THE MECHANICAL PLANS ARE INTENDED TO BE DIAGRAMMATIC AND ARE BASED ON ONE MANUFACTURER'S EQUIPMENT. THEY ARE NOT INTENDED TO SHOW THE EXACT ROUTING OF SYSTEMS OR LOCATION OF COMPONENTS. THE EXACT LOCATIONS, DIMENSIONS AND ALL OTHER DETAILS OF EQUIPMENT ARE THE RESPONSIBILITY OF THIS CONTRACTOR. THIS CONTRACTOR SHALL VERIFY THE ACTUAL DIMENSIONS OF THE EQUIPMENT PROPOSED TO ENSURE THAT THE EQUIPMENT WILL FIT IN THE AVAILABLE SPACE. PROVIDE ALL DUCT AND PIPE TRANSITIONS REQUIRED FOR CONNECTION TO EQUIPMENT.
5. THIS CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS AND EXISTING CONDITIONS PRIOR TO PROCEEDING WITH ANY WORK. WHERE DISCREPANCIES OCCUR BETWEEN THESE DOCUMENTS AND EXISTING CONDITIONS, THE DISCREPANCY SHALL BE REPORTED TO THE OWNER AND/OR ENGINEER FOR EXPEDITING AND RESOLVE.
6. ALL WORK SHALL BE PERFORMED IN A CLEAN AND WORKMANLIKE MANNER. CARE SHALL BE EXERCISED TO MINIMIZE ANY INCONVENIENCE OR DISTURBANCE TO OTHER AREAS OF THE BUILDING WHICH ARE TO REMAIN IN OPERATION. ISOLATE WORK AREAS BY MEANS OF TEMPORARY PARTITIONS AND/OR TARPS TO KEEP DUST AND DEBRIS WITHIN THE CONSTRUCTION AREA.
7. CLEAN THE JOB SITE DAILY AND REMOVE FROM THE PREMISES ANY DIRT AND DEBRIS CAUSED BY THE PERFORMANCE OF THE WORK INCLUDED IN THIS CONTRACT.
8. ALL OPENINGS IN WALLS SHALL BE KEPT PROPERLY SEALED AT ALL TIMES, EXCEPT WHEN BEING WORKED ON TO PRECLUDE THE POSSIBILITY OF FLOODING DUE TO STORM OR OTHER CAUSES.
9. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE SAFEKEEPING OF HIS OWN PROPERTY ON THE JOB SITE. OWNER ASSUMES NO RESPONSIBILITY FOR PROTECTION OF PROPERTIES AGAINST FIRE, THEFT, AND ENVIRONMENTAL CONDITIONS.
10. THIS CONTRACTOR SHALL COORDINATE HIS WORK WITH ALL OTHER TRADES PRIOR TO FABRICATION, PURCHASE AND/OR INSTALLATION OF ALL WORK. ALL OFFSETS IN PIPING AND DUCTS TO AVOID OBSTRUCTIONS SHALL BE PROVIDED AT NO COST TO THE OWNER.
11. CONTRACTOR SHALL REFER TO THE COMPLETE SET OF CONTRACT DOCUMENTS INCLUDING SPECIFICATIONS AND OTHER TRADES FOR A FULL UNDERSTANDING OF ALL WORK REQUIRED.
12. WHERE USED THE TERM "PROVIDE" SHALL MEAN "FURNISH AND INSTALL".
13. PROVIDE ALL REQUIRED RIGGING TO ACCOMMODATE THE REMOVAL & INSTALLATION OF ALL EQUIPMENT.
14. ALL EQUIPMENT AND MATERIALS SHALL BE AS SPECIFIED OR "APPROVED EQUAL" BY THE ENGINEER OR ARCHITECT.
15. REFRIGERANT PIPE SIZING SHALL BE PER MANUFACTURER'S RECOMMENDATIONS. LENGTH OF PIPE, ELEVATION CHANGE AND EQUIPMENT ORIENTATION SHALL BE TAKEN INTO ACCOUNT.
16. SUCCESSFULLY PRESSURE TEST ALL REROUTED PIPING SYSTEMS. TEST SHALL BE PERFORMED AT TWICE SYSTEM OPERATING PRESSURES. REPAIR AND RETEST AS REQUIRED UNTIL SYSTEMS PROVE TIGHT.
17. ALL CONCEALED ELECTRICAL CONNECTIONS SHALL BE HARD WIRED. PLUGS SHALL NOT BE USED AS A DISCONNECTING MEANS IN CONCEALED LOCATIONS.
18. CONTRACTOR SHALL PROVIDE ALL TEMPERATURE CONTROLS INCLUDING WIRING, TUBING, AND THERMOSTATS (WITH LOCKING COVERS) AND ALL MISCELLANEOUS APPURTENANCES TO MEET THE INTENT OF THESE DOCUMENTS. THERMOSTATS SHALL BE INSTALLED 48" AFF.

ABBREVIATIONS

GENERAL ABBREVIATIONS:

AC	AIR CONDITIONING UNIT	LRA	LOCKED ROTOR AMPS
ACCU	AIR COOLED CONDENSING UNIT VENT		
AMP	AMPERE	MBH	THOUSAND BTH
		MCA	MINIMUM CIRCUIT AMPS
BTU	BRITISH THERMAL UNIT		
		NTS	NOT TO SCALE
CFM	CUBIC FEET PER MINUTE		
		RLA	RUNNING LOAD AMPS
ELEC	ELECTRICAL	RPM	REVOLUTIONS PER MINUTE
ESP	EXTERNAL STATIC PRESSURE		
		SA	SUPPLY AIR
FLA	FULL LOAD AMPS	SEN	SENSIBLE
		SPECS	SPECIFICATIONS
HP	HORSEPOWER		
HZ	HERTZ	T	TEMPERATURE SENSOR
KW	KILOWATT	V	VOLTS (ELECTRICAL)

MECHANICAL SYMBOL LEGEND

CONTROLS

- T — THERMOSTAT
- X / # — EQUIPMENT TAG
- # — REVISION

SPECIFICATIONS

1.1 RELATED DOCUMENTS

A. DRAWINGS AND GENERAL PROVISIONS OF CONTRACT, INCLUDING GENERAL AND SUPPLEMENTARY CONDITIONS AND DIVISION-1 SPECIFICATION SECTIONS, APPLY TO WORK OF THIS SECTION.

1.2 SUMMARY OF WORK

A. PROVIDE COMPLETE FUNCTIONAL HEATING, VENTILATING AND AIR CONDITIONING SYSTEM AS SHOWN ON MECHANICAL CONSTRUCTION DOCUMENTS.

1.3 GUARANTEE

A. EXCEPT AS OTHERWISE SPECIFIED, ALL WORK, MATERIALS AND EQUIPMENT SHALL BE GUARANTEED AGAINST DEFECTS RESULTING FROM THE USE OF INFERIOR MATERIALS, EQUIPMENT, OR WORKMANSHIP FOR ONE YEAR FROM THE DATE OF FINAL COMPLETION OF THE CONTRACT, OR FROM FULL ACCEPTANCE BY THE OWNER, WHICHEVER IS EARLIER.

B. THIS CONTRACTOR SHALL OBTAIN IN THE GENERAL CONTRACTOR'S AND OWNER'S NAME, THE STANDARD WRITTEN MANUFACTURER'S GUARANTEE OF ALL MATERIALS FURNISHED UNDER THIS SECTION WHERE SUCH GUARANTEES ARE OFFERED IN THE MANUFACTURER'S PUBLISHED PRODUCT DATA. ALL THESE GUARANTEES SHALL BE IN ADDITION TO, AND NOT IN LIEU OF, OTHER LIABILITIES, WHICH THE CONTRACTOR MAY HAVE BY LAW OR OTHER PROVISIONS OF THE CONTRACT DOCUMENTS. THE GUARANTEE SHALL BE FOR A PERIOD OF ONE (1) YEAR MINIMUM FROM THE DATE OF ACCEPTANCE OR FINAL PAYMENT.

1.4 OPERATING INSTRUCTIONS AND MAINTENANCE MANUALS

A. OPERATING INSTRUCTIONS: PROVIDE OPERATING INSTRUCTIONS TO THE OWNER'S DESIGNATED REPRESENTATIVE WITH RESPECT TO THE OPERATION FUNCTIONS AND MAINTENANCE PROCEDURES FOR ALL EQUIPMENT AND SYSTEMS INSTALLED. THE COST OF PROVIDING A MANUFACTURER'S REPRESENTATIVE AT THE SITE FOR INSTRUCTIONAL PURPOSES SHALL BE INCLUDED IN THE CONTRACT PRICE.

1.5 PROTECTION

A. PROTECT ALL WORK AND MATERIAL FROM DAMAGE BY WORK AND WORKMEN, AND ACCEPT LIABILITY FOR ALL DAMAGE THUS CAUSED.

1.6 MATERIALS AND WORKMANSHIP

A. ALL MATERIALS AND APPARATUS REQUIRED FOR THE WORK, EXCEPT AS SPECIFICALLY SPECIFIED OTHERWISE, SHALL BE NEW, OF FIRST-CLASS QUALITY, AND SHALL BE FURNISHED, DELIVERED, ERECTED, CONNECTED AND FINISHED IN EVERY DETAIL, AND SHALL BE SO SELECTED AND ARRANGED AS TO FIT PROPERLY INTO THE BUILDING SPACES. WHERE NO SPECIFIC KIND OR QUALITY OF MATERIAL IS GIVEN, A FIRST-CLASS STANDARD ARTICLE AS APPROVED BY THE ARCHITECT SHALL BE FURNISHED.

1.7 SUPPORTS & ATTACHMENTS

A. PROVIDE ALL NECESSARY SUPPORTS AND BASES REQUIRED FOR ALL EQUIPMENT, PIPING AND FOR ALL OTHER EQUIPMENT FURNISHED UNDER THIS CONTRACT. SUBMIT SHOP DRAWINGS TO THE ARCHITECT FOR APPROVAL BEFORE PURCHASE, FABRICATION OR CONSTRUCTION OF SAME.

B. ALL EQUIPMENT, UNLESS SHOWN OTHERWISE, SHALL BE SECURELY ATTACHED TO THE BUILDING STRUCTURE IN AN APPROVED MANNER. ATTACHMENTS SHALL BE OF A STRONG AND DURABLE NATURE AND ANY ATTACHMENTS THAT ARE NOT STRONG ENOUGH SHALL BE REPLACED AS DIRECTED.

1. PIPING

A. REFRIGERANT PIPING COPPER TUBING: ASTM B280, TYPE ACR HARD DRAWN.

1. JOINTS: BRAZE, AWS A5.8 BCUP SILVER/PHOSPHORUS/COPPER ALLOY WITH MELTING RANGE 1190 TO 1480 DEGREES F.

1.8 PIPING INSULATION

1. REFRIGERANT PIPING: FLEXIBLE CLOSED CELL INSULATION.

A. COMPLIANCE: INSULATION THICKNESS, CONDUCTIVITY AND INSTALLATION SHALL COMPLY WITH LOCAL MECHANICAL AND ENERGY CODES.

1.9 MANUFACTURER'S RECOMMENDATIONS:

A. DUCTLESS A/C SPLIT SYSTEMS:

1. COOLING: IN THE COOLING MODE, THE SUPPLY FAN SHALL RUN AND THE REFRIGERATION CIRCUIT SHALL BE ENERGIZED AND CYCLE TO MAINTAIN THE COOLING SETPOINT OF THE SPACE/UNIT MOUNTED TEMPERATURE SENSOR. WHEN THE COOLING SETPOINT IS REACHED, THE REVERSE SHALL OCCUR.
2. PROVIDE LOW AMBIENT CONTROLS.
3. PROVIDE ALL REQUIRED INTERCONNECTING POWER & CONTROL WIRING.
4. PROVIDE AN OVERFLOW CUT-OFF SWITCH AT SECONDARY DRAIN PAN TO SHUT DOWN THE ASSOCIATED UNIT AND PROVIDE AN ALARM AT THE CONTROL PANEL PRIOR TO OVERFLOW.

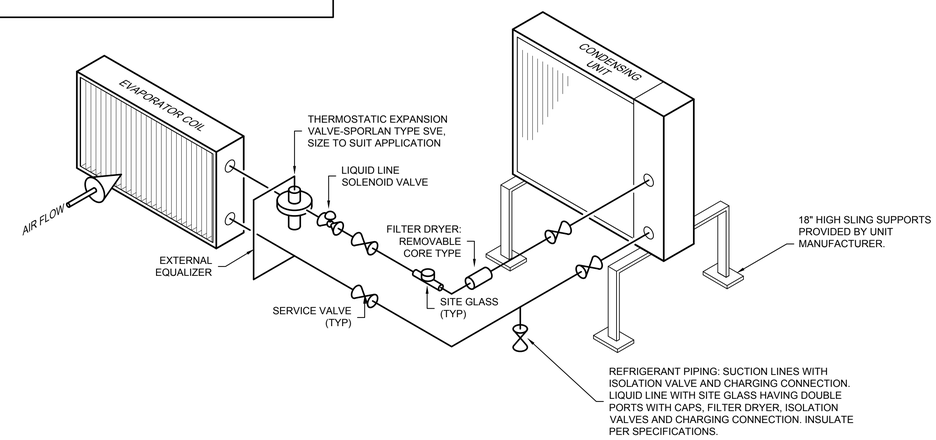
SPLIT SYSTEM SCHEDULE (BASED ON MITSUBISHI)

SYMBOL	MODEL	CFM	TOTAL COOLING CAPACITY MBH	ECM FAN MOTOR FLA	ELECTRICAL DATA MCA	ELECTRICAL DATA VOLTAGE	ELECTRICAL DATA MOCP	NOTES
AC-1	PCA-A42KA7	1025	3.5	.97	2.0	208V/1Ø	15	1,2,3,4,5,6

SYMBOL	MODEL	ECM FAN MOTOR LRA	ELECTRICAL DATA MCA	ELECTRICAL DATA VOLTAGE	NOTES
ACCU-1	PUZ-A42NKA7	13	25.0	208V/1Ø	1,2,3,4,5,6,7

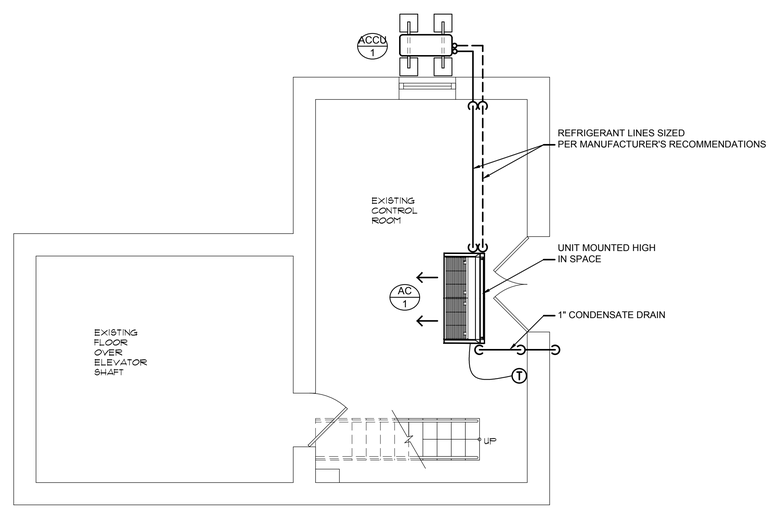
NOTES:

1. PROVIDE DISCONNECTS. REFER TO ELECTRICAL PLANS FOR RATINGS & COORDINATE WITH E.C.
2. PROVIDE LOW AMBIENT CONTROLS.
3. VERIFY ELECTRICAL REQUIREMENTS IN REFERENCE TO ELECTRICAL DRAWINGS.
4. PROVIDE REFRIGERANT LINES BASED ON MANUFACTURERS RECOMMENDED SIZES. LINE LENGTH AND UNIT ORIENTATION SHALL BE TAKEN INTO ACCOUNT.
5. INDOOR UNITS RECEIVE POWER FROM OUTDOOR UNIT THROUGH FIELD-SUPPLIED INTERCONNECTED WIRING.
6. PROVIDE 1 PIECE WIND BAFFLE WB-PA1 AND INVERTER-DRIVEN COMPRESSOR.
7. PROVIDE SLING STAND FOR CONDENSING UNIT.



REFRIGERANT PIPING DIAGRAM

NO SCALE



ELEVATOR MACHINE ROOM LOWER LEVEL

1 / M1

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

WILLIAM T. MAYER III
STATE OF RHODE ISLAND
No. 7860
REGISTERED PROFESSIONAL ENGINEER MECHANICAL

S/A architects

SACCOCCIO & ASSOCIATES, INC.

1085 Park Avenue
Cranston, R.I. 02910
tel 401. 942. 7970
fax 401. 942. 7975

CONSULTANT

CDS ENGINEERING DESIGN SERVICES
141 Industrial Highway
Slatersville, RI 02876
Tel (401) 765-7659
Fax (401) 765-2984

ELEVATOR MODERNIZATION AT THE RHODE ISLAND STATE HOUSE

PROVIDENCE RHODE ISLAND

NOTES:

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SHEET TITLE

MECHANICAL: NEW WORK ELEVATOR MACHINE ROOM PLANS & NOTES

REVISIONS

DRAWN: T.M.W.	DATE: 09-28-2018
CHK BY: R.W.D.	JOB NO: 18028

M1

SHEET OF

TYPICAL DEMOLITION NOTES

1. THE ELECTRICAL CONTRACTOR SHALL REVIEW ALL OF THE ARCHITECTS AND OTHER TRADES DRAWINGS TO VERIFY ALL AREAS OF RENOVATION AND TO GET A COMPLETE UNDERSTANDING OF THE DEMOLITION WORK REQUIRED BY THIS PROJECT.
2. PRIOR TO SUBMITTING BID, VISIT SITE AND IDENTIFY EXISTING CONDITIONS AND DIFFICULTIES THAT WILL AFFECT WORK OF THIS SECTION. RENOVATION WORK WILL REQUIRE CAREFUL SITE EXAMINATION PRIOR TO BIDDING. NO COMPENSATION WILL BE GRANTED FOR ADDITIONAL WORK CAUSED BY UNFAMILIARITY WITH SITE CONDITIONS THAT ARE VISIBLE OR READILY CONSTRUED BY AN EXPERIENCED OBSERVER.
3. COORDINATE ALL WORK WITH THE BUILDING OWNER 10 DAYS PRIOR TO DISRUPTION TO ANY POWER.
4. DISCONNECT AND REMOVE ALL FIXTURES, WIRING DEVICES, CONDUIT AND FITTINGS, WIRING & CABLE, FIRE ALARM DEVICES/COMPONENTS , HANGERS, SUPPORTS, WIREWAYS, AND ALL OTHER ELECTRICAL COMPONENTS MADE OBSOLETE BY THIS PROJECT.
5. REFER TO ALL CONSTRUCTION DOCUMENTS TO GAIN A COMPLETE UNDERSTANDING OF THE DEMOLITION WORK REQUIRED.
6. ALL HVAC UNITS SCHEDULED TO BE REMOVED OR RE-LOCATED SHALL BE DONE SO BY THE HVAC CONTRACTOR. THE ELECTRICAL CONTRACTOR SHALL DISCONNECT AND MAKE-SAFE FOR REMOVAL.
7. TEMPORARY WALL OPENINGS AND/OR MODIFICATIONS REQUIRED FOR REMOVAL/INSTALLATION OF EQUIPMENT SHALL BE PROVIDED AS NEEDED AND COORDINATED WITH THE GENERAL CONTRACTOR.
8. CUT, REMOVE AND LEGALLY DISPOSE OF SELECTED ELECTRICAL EQUIPMENT, COMPONENTS AND MATERIALS AS INDICATED, INCLUDING, BUT NOT LIMITED TO, REMOVAL OF ELECTRICAL ITEMS INDICATED TO BE REMOVED AND ITEMS MADE OBSOLETE BY THE WORK. THE OWNER RESERVES THE OPTION OF SALVAGE RIGHTS TO DEMOLISHED MATERIAL AND REMOVED EQUIPMENT. THE CONTRACTOR SHALL COORDINATE WITH THE OWNER'S REPRESENTATIVE TO OBTAIN A LIST OF MATERIALS AND REMOVED EQUIPMENT TO BE TURNED OVER TO THE OWNER. ALL OTHER MATERIAL AND REMOVED EQUIPMENT NOT BEING SALVAGED BY THE OWNER SHALL BE DISPOSED OF BY THE CONTRACTOR.
9. PROTECT THE STRUCTURE, FURNISHINGS, FINISHES, AND ADJACENT MATERIALS NOT INDICATED OR SCHEDULED TO BE REMOVED. PROTECT THE ELECTRICAL WORK AND THE WORK OF OTHERS IN A MANNER BEST SUITED TO THE PARTICULAR CASE. CORRECT ANY DAMAGE DONE TO ANY WORK AT NO ADDITIONAL COST.
10. PROVIDE AND MAINTAIN TEMPORARY PARTITIONS OR DUST BARRIERS ADEQUATE TO PREVENT THE SPREAD OF DUST AND DIRT TO ADJACENT AREAS.
11. MAINTAIN ACCESS TO EXISTING ELECTRICAL INSTALLATIONS WHICH REMAIN ACTIVE. MODIFY INSTALLATION OR PROVIDE ACCESS PANEL AS APPROPRIATE.
12. PROVIDE TEMPORARY WIRING AND CONNECTIONS TO MAINTAIN EXISTING SYSTEMS IN SERVICE DURING CONSTRUCTION. WHEN WORK MUST BE PERFORMED ON ENERGIZED EQUIPMENT OR CIRCUITS, USE PERSONNEL EXPERIENCED IN SUCH OPERATIONS.
13. THESE DRAWINGS HAVE BEEN COMPILED FROM THE BEST AVAILABLE INFORMATION AND ARE NOT INTENDED TO LIMIT THE SCOPE OF THE WORK. THE ELECTRICAL CONTRACTOR MAY ENCOUNTER HIDDEN OR COVERED CONDITIONS, NOT INDICATED IN THESE DOCUMENTS, REQUIRING THE ELECTRICAL CONTRACTOR TO PROVIDE ADDITIONAL WORK FOR THE COMPLETION OF HIS OR HER CONTRACT. IT WILL BE ASSUMED THAT THE CONTRACTOR HAS INSPECTED THE SITE PRIOR TO BIDDING AND VERIFIED THE INFORMATION SUPPLIED HEREIN.
14. PROTECT ALL EXISTING WALLS, FLOORS, CEILINGS, LIGHT FIXTURES, ETC. WHICH ARE TO REMAIN & TO PREVENT DAMAGE DURING ALL CONSTRUCTION PHASES

TYPICAL ELECTRICAL NOTES

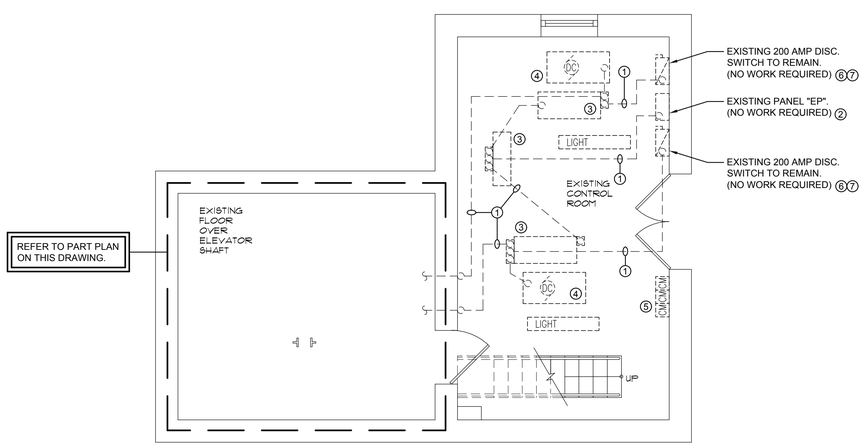
1. FURNISH LABOR, MATERIALS, EQUIPMENT AND SERVICES NECESSARY FOR THE PROPER AND COMPLETE INSTALLATION OF ALL ELECTRIC WORK SHOWN ON THE DRAWINGS AND HEREIN SPECIFIED.
2. ALL ITEMS NOT SHOWN ON THE DRAWINGS OR CALLED FOR IN THE SPECIFICATIONS, BUT WHICH ARE NECESSARY TO MAKE A COMPLETE ELECTRICAL INSTALLATION, SHALL BE FURNISHED AND INSTALLED AS PART OF THIS PROJECT.
3. ALL ELECTRICAL INSTALLATIONS AND GROUNDING SHALL BE IN STRICT ACCORDANCE WITH THE LATEST REQUIREMENTS OF THE LOCAL, STATE AND NATIONAL CODES.
4. OBTAIN AND PAY FOR ALL REQUIRED PERMITS AND INSPECTIONS.
5. MATERIALS AND WORKMANSHIP SHALL BE THE BEST OF THEIR RESPECTIVE KIND AND IN FULL ACCORDANCE WITH THE MOST MODERN ELECTRICAL CONSTRUCTION STANDARDS. ALL MATERIAL SHALL BE NEW, UNLESS OTHERWISE NOTED AND FREE OF ANY DEFECTS.
6. THE ELECTRICAL CONTRACTOR SHALL CLEAN AT THE END OF EACH DAY ALL AREAS WORKED IN. EMPTY BOXES, RUBBISH, AND OTHER CONSTRUCTION MATERIALS OF NO USE SHALL BE REMOVED FROM THE BUILDING.
7. ALL WORK SEQUENCES SHALL BE COORDINATED WITH THE G.C. AND SHALL BE COORDINATION WITH OTHER BUILDING TRADES AND G.C. BUILDING SCHEDULES.
8. ALL BRANCH CIRCUITS RATED AT 120 VOLTS, 20 AMPERES EXCEEDING 75 FEET SHALL BE MINIMUM #10 AWG.
9. THE ELECTRICAL CONTRACTOR (E.C.) SHALL COORDINATE WITH THE LOCAL UTILITY POWER COMPANY AND PROVIDE ALL MATERIAL & LABOR REQUIRED TO COMPLY WITH THE UTILITY POWER COMPANY'S REQUIREMENTS AND STANDARDS, PRIOR TO ORDERING ANY ELECTRICAL EQUIPMENT, SUCH AS, SWITCHGEAR, PANELS, TRANSFORMERS, DISCONNECT SWITCHES, ETC... E.C. SHALL CONFIRM METERING SEQUENCE (HOT OR COLD) AND MAKE THE APPROPRIATE PROVISIONS FOR THE APPROVED METERING SEQUENCE ARRANGEMENT. A.I.C. RATINGS, GROUNDING, BONDING, RACEWAYS, ETC... SHALL BE IN ACCORDANCE WITH THE UTILITY COMPANY'S STANDARDS.
10. THE ELECTRICAL CONTRACTOR (E.C.) SHALL COORDINATE WITH THE LOCAL TELEPHONE COMPANY AND PROVIDE ALL MATERIAL & LABOR REQUIRED TO COMPLY WITH THE TELEPHONE COMPANY'S REQUIREMENTS AND STANDARDS, PRIOR TO ODERING ANY ELECTRICAL EQUIPMENT, SUCH AS, TERMINAL BOARDS, GROUNDING, RACEWAYS, ETC...
11. ALL RECEPTACLE WITH "WP" DESIGNATION SHALL BE PROVIDED WITH A WEATHER-PROOF WHILE IN-USE ENCLOSURE. (TYPICAL)
12. ELECTRICAL CONTRACTOR TO ALLOW TIME FOR DIRECTIONAL ADJUSTMENT OF ALL LIGHT FIXTURES AS DIRECTED BY OWNER.
13. ALL RECEPTACLES SHALL BE LABELED INDICATING THEIR RESPECTIVE PANEL & CIRCUIT NUMBER.
14. AT EXISTING FLOOR SLABS AND WALLS TO BE CORE-DRILLED OR CUT, THE CONTRACTOR SHALL FIND AND MARK ALL EXISTING REINFORCING, PIPING, CONDUIT & FEEDERS, ETC IN BOTH FACES LOCATED BY MEANS OF X-RAY, PACH-OMETER, OR PROFOMETER. SUBMIT DRAWING SHOWING LOCATIONS OF EXISTING REBAR, PIPING AND/OR CONDUIT AND PROPOSED CORES AND/OR CUTS FOR REVIEW.
15. ALL PENETRATIONS FOR POWER RECEPTACLES, JUNCTION BOXES, TELEPHONE/DATA OUTLETS, SWITCHES, BACKBOXES, ETC.. LOCATED IN EXTERIOR WALLS SHALL BE PROVIDED WITH APPROPRIATE CAULKING AND GASKETS TO SEAL OFF AND PREVENT AIR LEAKAGE. FOLLOW CAULKING AND GASKET MANUFACTURERS INSTALLATION GUIDELINES TO ENSURE CORRECT AND EFFECTIVE INSTALLATION.
16. ALL ELECTRICAL, FIRE ALARM & LOW VOLTAGE WIRING SHALL BE CONCEALED WITHIN WALLS, CEILINGS, FLOORS OR CHASES. (TYPICAL)

"EXISTING" ELEV. MACH. RM. NOTES

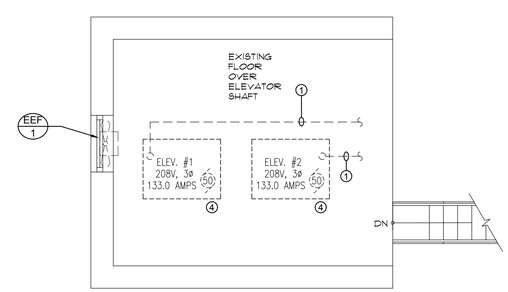
1. EXISTING FEEDERS FROM EXISTING ELEVATOR POWER BREAKER TO EXISTING ELEVATOR CONTROLLER AS WELL AS FEEDERS FROM EXISTING CONTROLLERS TO EXISTING MOTORS TO BE REMOVED & RE-ROUTED TO NEW EQUIPMENT LOCATIONS.
2. EXISTING FEEDERS FROM EXISTING CAB LIGHTING BREAKER TO NEW ELEVATOR CONTROLLER TO BE REPLACED WITH NEW.
3. CONTRACTOR SHALL REMOVE ALL EXISTING LINE VOLTAGE POWER WIRING FROM EXISTING ELEVATOR CONTROLLER. COORDINATE SCOPE OF WORK & TIME OF WORK WITH ELEVATOR MANUFACTURER / CONTRACTOR.

   CONTRACTOR SHALL REMOVE EXISTING TELEPHONE LINES FROM EXISTING ELEVATOR CONTROLLER AND RE-ROUTE / EXTEND TO NEW ELEVATOR CONTROLLER.
4. CONTRACTOR SHALL REMOVE ALL EXISTING LINE VOLTAGE POWER WIRING FROM EXISTING ELEVATOR MOTOR / PUMP. COORDINATE SCOPE OF WORK & TIME OF WORK WITH ELEVATOR MANUFACTURER / CONTRACTOR.
5. CONTRACTOR SHALL REMOVE EXISTING FIRE ALARM LINES FROM EXISTING ELEVATOR CONTROLLER AND RE-ROUTE / EXTEND TO NEW ELEVATOR CONTROLLER.
6. EXISTING ELEVATOR POWER PANEL & ASSOCIATED BREAKER'S TO REMAIN AND BE RE-USED. IT SHALL BE THIS CONTRACTOR'S RESPONSIBILITY TO VERIFY THAT THESE MEET THE ELEVATOR MANUFACTURER'S REQUIREMENTS AS WELL AS THE ELEVATOR INSPECTORS MOUNTING & LOCATION REQUIREMENTS.
7. EXISTING ELEVATOR CAB LIGHTING ASSOCIATED BREAKER'S TO REMAIN AND BE RE-USED. IT SHALL BE THIS CONTRACTOR'S RESPONSIBILITY TO VERIFY THAT THESE MEET THE ELEVATOR MANUFACTURER'S REQUIREMENTS AS WELL AS THE ELEVATOR INSPECTORS MOUNTING & LOCATION REQUIREMENTS.

XXX / ## — MECHANICAL EQUIPMENT CONNECTION TAG:
REFER TO "MECHANICAL EQUIPMENT ELECTRICAL CONNECTION SCHEDULE" ON DRAWING "E2" FOR ALL CIRCUITING INFORMATION, INCLUDING BUT NOT LIMITED TO BRANCH CIRCUITING WIRING AND CONDUIT SIZE, VOLTAGE, PHASE, MOTOR CONTROL, DISC. SWITCH & CIRCUIT BREAKER.



1 / E1 (EXISTING) ELEVATOR MACHINE ROOM LOWER LEVEL
SCALE: 1/4" = 1'-0"



2 / E1 (EXISTING) ELEVATOR MACHINE ROOM UPPER LEVEL
SCALE: 1/4" = 1'-0"

RAYMOND W. DUSSEAULT III
No. 7139
REGISTERED PROFESSIONAL ENGINEER (ELECTRICAL)

architects
SACCOCCIO & ASSOCIATES, INC.
1085 Park Avenue
Cranston, R.I. 02910
tel 401. 942. 7970
fax 401. 942. 7975

CONSULTANT
CDS ENGINEERING DESIGN SERVICES
141 Industrial Highway
Slatersville, RI 02876
Tel (401) 765-7659
Fax (401) 765-2984

ELEVATOR MODERNIZATION AT THE RHODE ISLAND STATE HOUSE
PROVIDENCE RHODE ISLAND

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SHEET TITLE
ELECTRICAL: EXISTING ELEVATOR MACHINE ROOM PLANS & NOTES

REVISIONS

DRAWN: T.M.W.	DATE: 09-28-2018
CHK BY: R.W.D.	JOB NO: 18028

E1

SHEET OF

MECHANICAL EQUIPMENT ELECTRICAL CONNECTION SCHEDULE

XXX # ITEM No.	DESCRPITION	LOCATION	EQUIPMENT CHARACTERISTICS					CIRCUIT	BRKR.	FEEDER / WIRING	DISCONNECT SWITCH				MANUAL MOTOR CONTROLLER	REMARKS
			VOLTS	PH	FREQ.	(KW) / HP	FLA				SIZE	FUSE	POLES	NEMA		
EEF-1	(EXISTING) EXHAUST FAN TO REMAIN	SEE PLANS	120	1	60	-	-	-	-	2#12 + 1#12 GND. IN 3/4" C.	-	-	-	-	(EXISTING)	
AC-1	SPLIT SYSTEM AIR COND.	SEE PLANS	208	1	60	-	2.0	(exist.)	30A/2P	2#12 + 1#12 GND. IN 3/4" C.	-	-	-	-	PROVIDE "WP" MOTOR RATED TOGGLE SWITCH WITH THERMAL OVERLOADS.	PROVIDE & INSTALL NEW WIRING AS INDICATED. IT SHALL BE THIS CONTRACTOR'S RESPONSIBILITY TO FIELD VERIFY EXISTING PANEL WITH SPARE CAPACITY TO POWER NEW EQUIPMENT. NEW INDOOR "AC" UNIT TO BE POWERED & CONTROLLED VIA OUTDOOR "ACCU". FIELD VERIFY EXACT WIRING & OPERATION WITH MANUFACTURER.
ACCU-1	SPLIT SYSTEM COND. UNIT	ROOF	208	1	60	-	24.0			2#10 + 1#10 GND. IN 3/4" C.	30	30	2	3R	PROVIDE FUSED DISCONNECT SWITCH WITH FUSING AS INDICATED.	

NOTES:

1. COORDINATE WITH HVAC CONTRACTOR & DRAWINGS FOR EXACT LOCATIONS OF ALL MECHANICAL EQUIPMENT PRIOR TO INSTALLING ELECTRICAL COMPONENTS.
2. ALL DISCONNECTING MEANS SHALL BE SUPPLIED AND INSTALLED BY THE ELECTRICAL CONTRACTOR.
3. ALL STARTERS, VFD'S ETC. SHALL BE SUPPLIED AND INSTALLED BY THE MECHANICAL CONTRACTOR. ELECTRICAL CONTRACTOR SHALL WIRE ALL HVAC EQUIPMENT.
4. ALL HVAC CONTROL WIRING SHALL BE PROVIDED BY OTHERS.

"NEW WORK" ELEV. MACH. RM. NOTES

1. EXISTING POWER FEEDERS FROM EXISTING ELEVATOR PANEL / BREAKERS SHALL BE EXTENDED TO NEW ELEVATOR DISCONNECT SWITCH & ONTO NEW ELEVATOR CONTROLLER. ANY NEW FEEDER MATERIALS REQUIRED TO EXTEND FEEDER SHALL MATCH EXISTING ELECTRICAL CHARACTERISTICS. FEEDER ROUTING, LOCATION AND TIE-IN TO BE FIELD VERIFIED.
2. PROVIDE AND INSTALL NEW FEEDERS FROM EXISTING CAB LIGHTING BREAKER'S TO NEW ELEVATOR CAB LIGHTING DISCONNECT SWITCH & ONTO NEW ELEVATOR CONTROLLER, CONSISTING OF: 3#12 + 1#12 GND. IN 3/4" CONDUIT. FEEDER ROUTING, LOCATION AND TIE-IN TO BE FIELD VERIFIED.
3. PROVIDE AND INSTALL A NEW #6 AWG COPPER GROUND WIRE NEW ELEVATOR CONTROLLER TO EXISTING BUILDING GROUND. FEEDER ROUTING, LOCATION AND TIE-IN TO BE FIELD VERIFIED.
4. PROVIDE AND INSTALL A SET OF DRY CONTACTS AS WELL AS LOW VOLTAGE WIRING FROM EXISTING FIRE ALARM CONTROL PANEL TO NEW ELEVATOR CONTROLLER FOR "RECALL" FUNCTION. VERIFY TYPE OF WIRING, ROUTING, LOCATIONS AND TIE-IN WITH ELEVATOR MANUFACTURER'S REPRESENTATIVE. COORDINATION OF REQUIREMENTS BETWEEN ALL CONTRACTOR'S SHALL BE CARRIED AS PART OF BASE BID.
5. CONTRACTOR SHALL REMOVE EXISTING TELEPHONE LINES FROM EXISTING ELEVATOR CONTROLLER AND RE-ROUTE / EXTEND TO NEW ELEVATOR CONTROLLER.
6. CONTRACTOR SHALL REMOVE EXISTING FIRE ALARM LINES FROM EXISTING ELEVATOR CONTROLLER AND RE-ROUTE / EXTEND TO NEW ELEVATOR CONTROLLER.
7. PROVIDE & INSTALL A SELF-CONTAINED EMERGENCY BATTERY UNIT WITH INTEGRAL LIGHTING HEADS & BATTERIES, TIED INTO ROOMS LIGHTING FIXTURE CIRCUIT, AHEAD OF ANY / ALL SWITCHING.

TYPICAL FIRE STOPPING NOTES

A. GENERAL: FIRE STOPPING SHALL BE PROVIDED BY THIS CONTRACTOR FOR ALL FLOOR, CEILING AND FIRE RATED WALL PENETRATIONS FOR CONDUIT, SLEEVES AND/OR CABLING AS REQUIRED BY JOB CONDITIONS.

B. THE CONTRACTOR SHALL PROVIDE A FIRE STOP SYSTEM IN ACCORDANCE WITH THE FOLLOWING:

1. THE SYSTEM SHALL CONSIST OF A WATERBASED SEALANT AND SUITABLE DAMMING MATERIALS (WHERE REQUIRED) AND BE INSTALLED PER MANUFACTURER'S REQUIREMENTS.
2. THE SEALANT SUPPLIED SHALL BE A TWO STAGED INTUMESCENT AND CAPABLE OF EXPANDING UP TO 8 TIMES ITS ORIGINAL VOLUME.
3. THE SEALANT SUPPLIED SHALL CONTAIN NO ASBESTOS, NO FIBERGLASS, AND NO SOLVENTS NOT CORROSIVE MINERAL SALTS OF ANY KIND.
4. THE SEALANT SHALL FORM A SURFACE CAPABLE OF BEING SANDED AND PAINTED TO MATCH SURROUNDING SURFACES AND SHALL BE IMPERVIOUS TO WATER WHEN DRY.
5. THE FIRE STOP SYSTEM SHALL BE TESTED TO THE TIME/TEMPERATURE REQUIREMENTS OF ASTM E119 AND SHALL BE UL1479 (ASTM E814) AND CLASSIFIED FOR UP TO 3 HOURS.
6. THE FIRE STOP SEALANT SHALL BE SPECSEAL SEALANT AS MANUFACTURED BY SPECIFIED TECHNOLOGIES, INC. OR APPROVED EQUAL.
7. SPECIAL CARE SHALL BE TAKEN WITH ELECTRICAL SYSTEMS NOT TO COMPROMISE ANY OF THE BUILDING FIRE PARTITIONS, FLOORS, WALLS OR MEMBRANES. PROVIDE ALL FIRESTOPPING REQUIRED TO COMPLY WITH THE BUILDING CODE, THE ELECTRICAL CODE AND THE UL LISTING OF EACH ASSEMBLY. COORDINATE LOCATIONS AND TYPES OF MEMBRANES WITH ARCHITECT.

ABBREVIATIONS

A	AMPERES
ADA	AMERICANS WITH DISABILITIES ACT
AMPS	AMPERES
AFF	ABOVE FINISHED FLOOR
A/C	AIR CONDITIONING
AWG	AMERICAN WIRE GAGE
BLDG.	BUILDING
C	CONDUIT
CLG	CEILING
DN	DOWN
DWG	DRAWING
E.C.	ELECTRICAL CONTRACTOR
EPO	EMERGENCY POWER OFF
EQ	EQUAL
ER	EXISTING TO BE REMOVED
ERN	EXISTING TO REMAIN
ERL	EXISTING TO BE RE-LOCATED
F.A.	FIRE ALARM
FACP	FIRE ALARM CONTROL PANEL
FLR	FLOOR
G.C.	GENERAL CONTRACTOR
GFCI	GROUND FAULT CIRCUIT INTERUPTER.
G	GROUND
GND	GROUND
HVAC	HEATING, VENTILATING, & & AIR CONDITIONING
JB	JUNCTION BOX
KVA	KILOVOLT AMPERES
KW	KILOWATT
LTG	LIGHTING
MAX	MAXIMUM
MECH	MECHANICAL
MIN	MINIMUM
MTD	MOUNTED
NAC	F.A. NOTIFICATION APPLIANCE CIRCUIT EXPANDER PANEL
NTS	NOT TO SCALE
P	POLE
PNL	PANEL
RE	RE-LOCATED EXISTING DEVICE OR EQUIPMENT SHOWN IN NEW LOCATION
TYP	TYPICAL
UL	UNDERWRITERS LABATORY
UON	UNLESS OTHERWISE NOTED
V	VOLTS
W	WATTS
WH	WATER HEATER
WP	WEATHER-PROOF
℄	CENTERLINE

XXX ##

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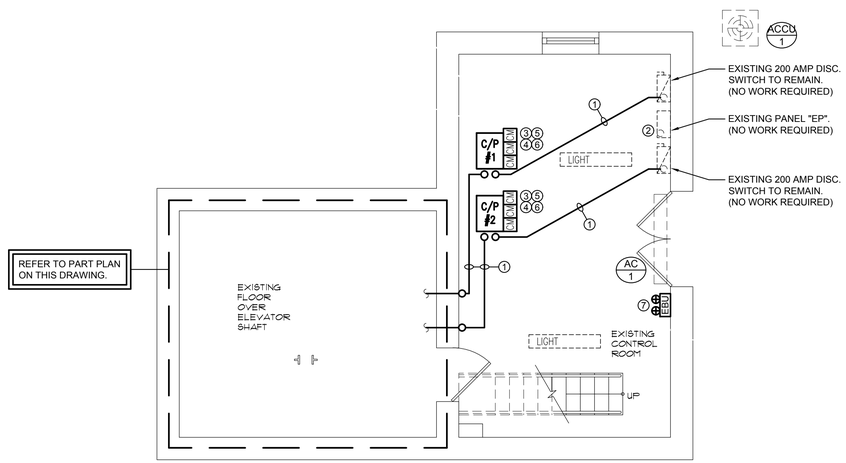

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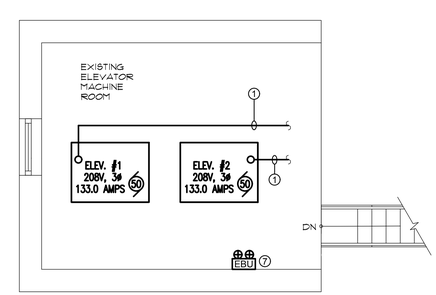

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E2

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