ELEVATOR MODERNIZATION FOR

CENTERTOWN PARKING GARAGE

101 WEST GRAY STREET
ELMIRA NY
RFB-322-R

LaBella
Powered by partnership.
100 West Water Street
Suite 101
Elmira, NY 14901
607-734-8492
labellapc.com

Project
Number:
2221193

Foor & Associates Architects
ELMIRA, NEW YORK 14901
MANSFIELD, PA 16933

TO THE BEST OF MY KNOWLEDGE, INFORMATION AND BELIEF, THE PLANS AND SPECIFICATIONS ARE IN ACCORDANCE WITH APPLICABLE REQUIREMENTS OF THE NEW YORK STATE UNIFORM FIRE PREVENTION AND BUILDING CODE, THE ENERGY CONSERVATION CODE.

REGISTERED ARCHITECT
LARRY R. FOOR
018715
STATE OF NEW YORK

LARRY R. FOOR

REBID MAY, 2026
NOVEMBER, 2024

FA #4062

MATERIALS

- BLOCK
- BRICK
- CERAMIC TILE, QUARRY TILE OR MARBLE
- CONCRETE
- EARTH
- GRAVEL
- GYPSUM BOARD / GYPSUM SHEATHING
- INSULATION (BATT)
- PARTICLE OR FIBER BOARD
- INSULATION (RIGID)
- STEEL
- STONE OR SLATE
- WOOD (ROUGH)
- WOOD (FINISHED)
- WOOD STUD WALL (IN PLAN)
- PLYWOOD
- METAL STUD WALL

SYMBOLS

- 206 — ROOM NO. 206
- 120 — DOOR NO. 120
- 1A/32 — BUILDING NO. 1A DOOR NO. 32
- B — WINDOW TYPE B
- 4/A17 — SECTION NO. 4 DRAWING NO. A17
- 9 — DETAIL NO. 9
- 5/A21 — ELEVATION NO. 5 DRAWING NO. A21
- 5 — ELEVATION NO. 5
- B/C — MATCH LINE UNIT B / UNIT C
- B1 — TEST BORING B1
- A1 — BUILDING SECTION A DRAWING A12 / DRAWING NO. A1
- 3 — COLUMN NO. 3
- CENTER LINE
- ANGLE
- ROUND
- PLATE
- SQUARE
- CHANNEL

ABBREVIATIONS

AC.	ACOUSTIC	FL.	FLOOR	P.P.G.	POLISHED PLATE GLASS
A.C.	AIR CONDITIONING	FM.	FACTORY MUTUAL	PR.	PAIR
ADJ.	ADJUSTABLE	F.O.C.	FACE OF CONCRETE	PT.	PAINT
A.F.F.	ABOVE FINISH FLOOR	F.O.F.	FACE OF FINISH	P.T.D.	PAPER TOWEL DISPENSER
A.H.U.	AIR HANDLING UNIT	F.O.M.	FACE OF MASONRY	P.V.C.	POLY VINYL CHLORIDE
ALUM.	ALUMINUM	F.O.S.	FACE OF STUDS	P.V.F.	PLASTIC VENEER FINISH
A.P.	ACCESS PANEL	F.R.	FIRE RATED	Q.T.	QUARRY TILE
ARCH.	ARCHITECT	FT.	FOOT	R.	RISER
B.O.F.	BOTTOM OF FOOTING	FTG.	FOOTING, GAUGE	R.A.	RETURN AIR
BLDG.	BUILDING	GALV.	GALVANIZED	R.C.B.	REINFORCED CONCRETE BLOCK
BLK.	BLOCK	G.C.	GENERAL CONTRACTOR	REF.	REFRIGERATOR
BN.	BULLNOSE	GEN.	GENERAL	REINF.	REINFORCING
BR.	BEDROOM	GL.	GLASS	REQD.	REQUIRED
BRK.	BRICK	G.S.T.	GLAZED STRUCTURAL TILE	R.D.	ROOF DRAIN
BSMT.	BASEMENT	GYP. BD.	GYPSUM BOARD	R.L.	ROOF LEADER
B.U.R.	BUILT-UP ROOFING	H.C.	HEATING CONTRACTOR	RFG.	ROOFING
C.	COURSE	HDCP.	HANDICAP	RM.	ROOM
CAB.	CABINET	H.M.	HOLLOW METAL	R.O.	ROUGH OPENING
C BD.	CHALK BOARD	HR.	HOUR	R.O.B.	RUN OF BANK
C.F.	CUBIC FOOT	HT.	HEIGHT	S.D.	SOAP DISPENSER
C.G.	CORNER GUARD	H.V.	HEATING, VENTILATING	SECT.	SECTION
C.J.	CONTROL JOINT	I.D.	INSIDE DIAMETER	SQ.	SQUARE
CLG.	CEILING	INSUL.	INSULATION	S.F.	SQUARE FOOT
C.L.L.	CONTRACT LIMIT LINE	JT.	JOINT	SHR.	SHOWER
CLO.	CLOSET	KIT.	KITCHEN	SIM.	SIMILAR
C.M.U.	CONCRETE MASONRY UNIT	LAM.	LAMINATE	SK.	SKYLIGHT
COL.	COLUMN	LAV.	LAVATORY	S.N.D.	SANITARY NAPKIN DISPENSER
CONC.	CONCRETE	L.L.	LIVE LOAD	SPEC.	SPECIFICATION
CONF.	CONFERENCE	L.F.	LINEAL FOOT	SUSP.	SUSPENDED
CONT.	CONTINUOUS	L.L.H.	LONG LEG HORIZONTAL	S.S.	STAINLESS STEEL
CONTR.	CONTRACTOR	L.L.V.	LONG LEG VERTICAL	STD.	STANDARD
C.R.	CLASS ROOM	L.P.	LIGHT PANEL	STRUCT.	STRUCTURAL
CS.	CASEWORK	LR.	LIVING ROOM	STG.	STORAGE
C.S.	CARPET STRIP	MAX.	MAXIMUM	STL.	STEEL
C.T.	CERAMIC TILE	M.C.	MECHANICAL CONTRACTOR	T.	TREAD
CUST.	CUSTODIAN	MET.	METAL	T.B.	TOWEL BAR
D.F.	DRINKING FOUNTAIN	MFR.	MANUFACTURER	T. BD.	TACK BOARD
DIM.	DIMENSION	MH.	MANHOLE	T.O.C.	TOP OF CONCRETE
D.L.	DEAD LOAD	MIN.	MINIMUM	T.O.F.	TOP OF FOOTING
DN.	DOWN	MISC.	MISCELLANEOUS	THK.	THICK
DO.	DITTO	M.L. & P.	METAL LATH & PLASTER	T.&G.	TONGUE & GROOVE
DR.	DOOR	M.O.	MASONRY OPENING	TEL.	TELEPHONE
DWG.	DRAWING	M.T.	MARBLE THRESHOLD	TOIL.	TOILET
EA.	EACH	MTD.	MOUNTED	T.P.H.	TOILET PAPER HOLDER
E.C.	ELECTRICAL CONTRACTOR	N.I.C.	NOT IN CONTRACT	T.O.S.	TOP OF STEEL
E.F.	EACH FACE	NO.	NUMBER	T.PL.	TEMPERED PLATE
E.J.	EXPANSION JOINT	N.T.S.	NOT TO SCALE	TYP.	TYPICAL
ELEC.	ELECTRICIAN	OA.	OVERALL	UC.	UNDERCUT
EL./ELEV.	ELEVATION	O.A.I.	OUTSIDE AIR INTAKE	U.L.	UNDERWRITERS LABORATORY
EQ.	EQUAL	OBS.	OBSCURE	U.N.O.	UNLESS NOTED OTHERWISE
EQPT.	EQUIPMENT	O.C.	ON CENTER	V.	VENT
E.W.	EACH WAY	O.D.	OUTSIDE DIAMETER	V.A.T.	VINYL ASBESTOS TILE
E.W.C.	ELECTRIC WATER COOLER	OPNG.	OPENING	V.C.T.	VINYL COMPOSITION TILE
EXH.	EXHAUST	OPP.	OPPOSITE	VEST.	VESTIBULE
EXIST.	EXISTING	PARTN.	PARTITION	V.F.	VINYL FABRIC
EXP.	EXPANSION	P.C.	PLUMBING CONTRACTOR	WAINS.	WAINSCOT
EXT.	EXTERIOR	P.E.	PORCELAIN ENAMEL	W.D.	WINDOW DIMENSION
F.A.I.	FRESH AIR INTAKE	PERF.	PERFORATED	WD.	WOOD
F.D.	FLOOR DRAIN	PL.	PLATE	W/	WITH
F.E.C.	FIRE EXTINGUISHER CABINET	PLAM.	PLASTIC LAMINATE	W/GL.	WIRE GLASS
F.H.C.	FIRE HOSE CABINET	PLYWD.	PLYWOOD	WT.	WEIGHT
FIN.	FINISH	POL.	POLISHED	W.W.F.	WELDED WIRE FABRIC
		P.P.	POWER PANEL		

LIST OF DRAWINGS

T1

1 OVERALL EXISTING PLAN
SCALE: 1/16" = 1'-0"

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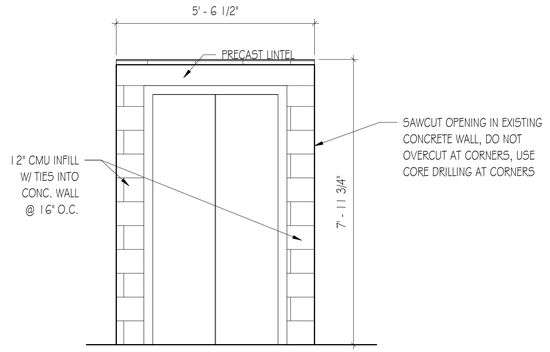
1	REBID	MAY, 2026

DRAWING TITLE

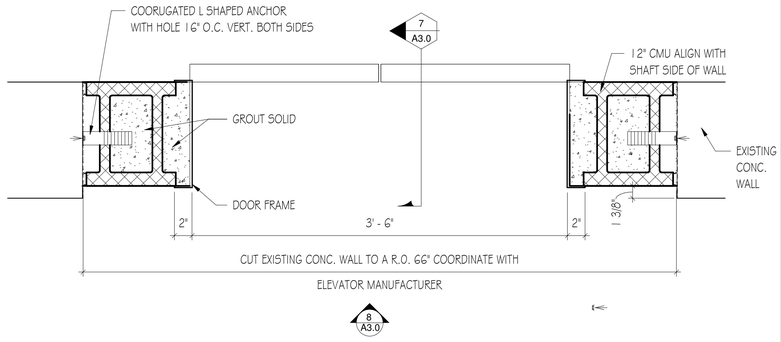
OVERALL PLAN

DATE	DRAWN BY
NOVEMBER, 2024	DWY

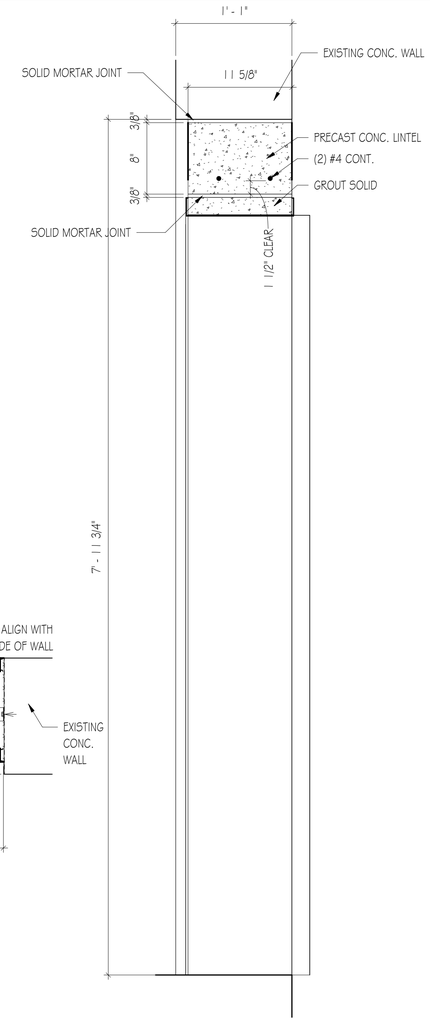
JOB NO.	DWG. NO.
4062	A2.0



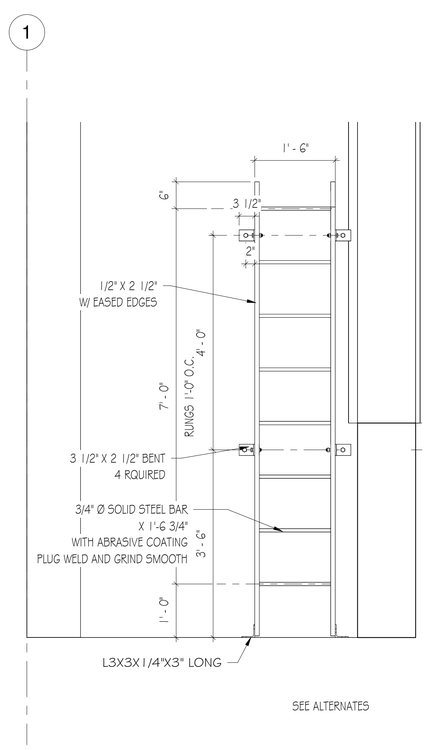
8 ELEVATOR DOOR ELEVATION TYP.
SCALE: 1/2" = 1'-0"



6 ELEVATOR DOOR PLAN TYP.
SCALE: 1 1/2" = 1'-0"



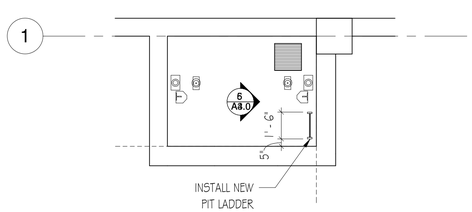
7 ELEVATOR DOOR SECTION
SCALE: 1 1/2" = 1'-0"



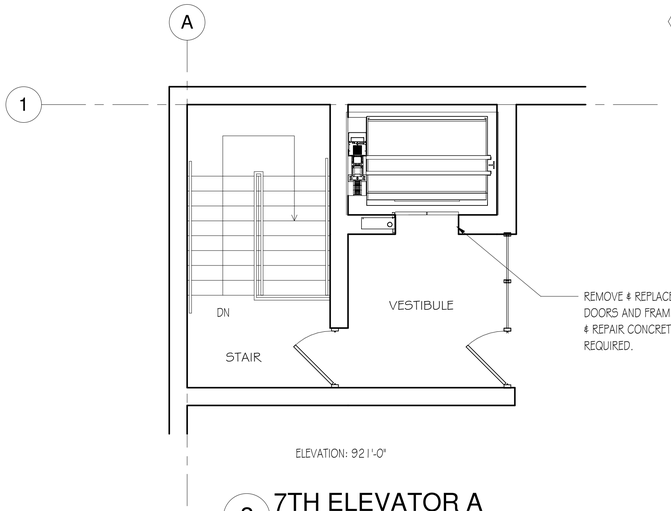
5 PIT LADDER DETAIL ELEV. A
SCALE: 3/4" = 1'-0"

TYPICAL EXISTING HOISTWAY DOORS

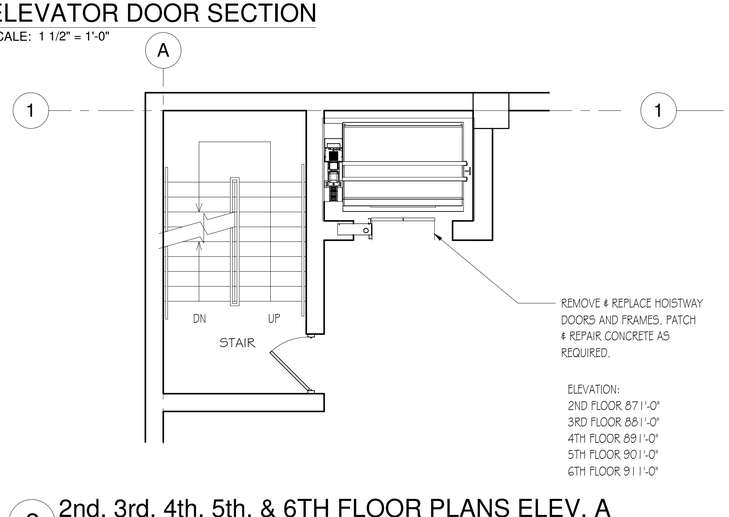
THE PHOTOS ARE TYPICAL FOR THE VARIOUS FLOORS AND ARE PROVIDED FOR INFORMATION



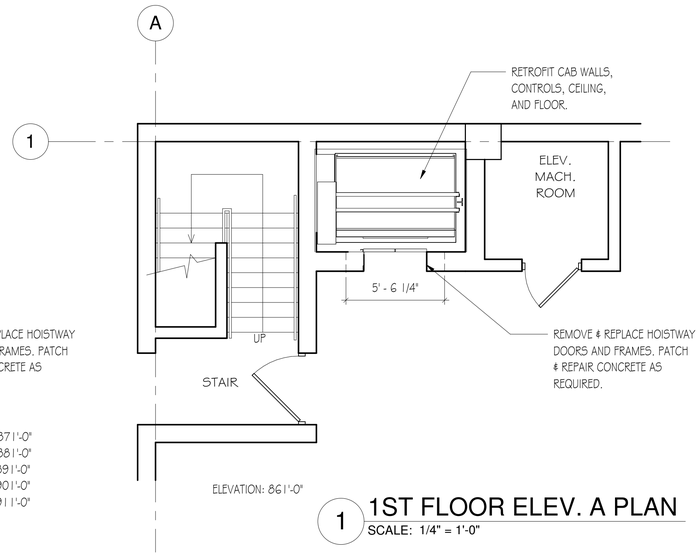
4 PIT PLAN ELEVATOR A
SCALE: 1/4" = 1'-0"



3 7TH ELEVATOR A
SCALE: 1/4" = 1'-0"



2 2nd, 3rd, 4th, 5th, & 6TH FLOOR PLANS ELEV. A
SCALE: 1/4" = 1'-0"



1 1ST FLOOR ELEV. A PLAN
SCALE: 1/4" = 1'-0"

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CENTERTOWN PARKING GARAGE

101 WEST GRAY STREET
ELMIRA NY

REVISIONS

1	REBID	MAY, 2026

DRAWING TITLE

ELEVATOR A PLANS

DATE	DRAWN BY
NOVEMBER, 2024	DWY

JOB NO.	DWG. NO.
4062	A3.0

ELEVATOR A – MODERIZATION

SUMMARY & SCOPE
The following is a summary and scope of the modernization.

RELATED SPECIFCATION SECTION
Refer to Specification Section 142400 – Elevator Modernization for additional requirements.

REMOVAL OF EXISTING
The Contractor is responsible for all removals and cutting and patching required for the modernization. All removed components shall be disposed of off-site.

APPLICABLE CODES
All components and installation shall comply with ASME/ANSI A17.1 Code, NYS Codes, and all ADA Codes.

MANUFACTURER
The Basis of Design is Otis HydrolAccel or approved equal.

ELEVATOR TYPE
The type shall match the existing, but not limited to the following.
Hydraulic
Speed 120 feet per minute
Capacity 2,500 pounds
Openings 7 front 0 rear

OPERATION

AUTOMATIC SELF-LEVELING
The elevator shall be provided with automatic self-leveling that shall typically bring the elevator car level with the floor landings + ¼" regardless of direction of travel. The automatic self-leveling shall correct for over travel or under travel and rope stretch.

SPECIAL EMERGENCY SERVICE
Special Emergency Service operation shall be provided in compliance with the latest applicable revision of the ASME/ANSI A17.1 Code.

Special Emergency Service Phase I to return the elevator(s) non-stop to a designated floor shall be initiated by an elevator smoke detector system or a keyswitch provided in a lobby fixture.

The elevator contractor shall provide contacts on the elevator controller to receive signals from the smoke detector system.

A keyswitch in the car shall be provided for in-car control of each elevator when on Phase II of Special Emergency Service.

INDEPENDENT SERVICE
When the Independent Service switch in the car operating panel is actuated; it shall cancel previously registered car calls, disconnect the elevator from the hall buttons, and allow operation from the car buttons only. Door operation shall occur only after actuation of the "DOOR CLOSE" button.

INSPECTION OPERATION
For inspection purposes, an enabling keyswitch shall be provided in the car operating panel to permit operation of the elevator from on top of the car and to make car and hall buttons inoperative.

REMOTE ELEVATOR MONITORING MAINTENANCE
A microprocessor system that continuously monitors the Unit(s) on a 24-hour per day, year-round basis will be provided. The system will notify a dispatching center that the elevator is inoperative by sending a message via telephone line. This makes it possible to have a mechanic dispatched rapidly in response to such a message.

MACHINE ROOM EQUIPMENT

POWER SUPPLY
The power supply 3-phase alternating current will be retained with the new equipment arranged for this power supply.

NEW CONTROLLER
A microprocessor based HydroAccel control system shall be provided to perform all the functions of safe elevator motion and elevator door control. This shall include all the hardware required to connect, transfer and interrupt power, and protect the motor against overloading. The system shall also perform group operational control.

NEW SOFT STARTER
A new solid-state starter shall be provided. To be of the same power requirement and starting configuration as presently exists.

NEW PUMP MOTOR
The existing motor shall be replaced with a motor that is of the same power characteristics and starting configuration as presently exists.

POWER UNIT
NEW SUBMERSIBLE
The existing power unit shall be replaced with a new power unit. The new power unit shall consist of a positive displacement pump, motor, integral 4-coil control valve, oil tank and muffler. The pump and motor shall be submerged and mounted to the tank with rubber isolators to reduce vibration and noise.

NEW VALVE
A new integral 4-coil control valve shall be installed to replace the existing valve. The valve shall consist of up, up leveling, down and down leveling controls along with manual lowering and a pressure relief valve.

NEW EMERGENCY RETURN UNIT
Furnish and install an Emergency Return Unit (ERU) providing auxiliary power to your hydraulic elevator. In the event of a primary power failure or a single-phase condition, the ERU is designed to automatically return the elevator to its lowest landing at normal speed and allow all passengers to exit safely.

DOOR EQUIPMENT

NEW CLOSED LOOP DOOR OPERATOR
Install a new closed loop door operator. Car and hoist way doors shall be power operated by means of a closed loop door operator mounted on top of the car designed to give consistent door performance with changes in temperature, wind or minor obstruction in the door track. The system continually monitors door speed and position and adjusts it accordingly to match the pre-determined profile.

EACH PRIME CONTRACTOR IS RESPONSIBLE FOR THE WORK OF THEIR TRADE.

ANY INVESTIGATION, CUTTING, PATCHING, TEMPORARY UTILITY (LIKE THE WATER FOR THE GC'S SAW CUTTING) IS EACH PRIME CONTRACTOR'S RESPONSIBILITY. IF THAT PRIME CONTRACTOR NEEDS A SUB IT'S THEIR RESPONSIBILITY TO INCLUDE IT IN THEIR WORK.

NEW DOOR-PROTECTION DEVICE
Install a new solid state, infrared passenger protection device on the car door. Elevator doors shall be provided with a reopening device that will stop and reopen the car door(s) and hoistway door(s) automatically should the door(s) become obstructed by an object or person.

NEW INTERLOCKS
New interlocks will be installed. The interlocks shall prevent operation of the elevator unless all doors for that elevator are closed and shall maintain the doors in their closed position while the elevator is away from the landing.

NEW CAR DOOR TRACKS AND HANGERS
The present car door tracks and hangers shall be replaced with new.

NEW HOISTWAY ENTRANCES AND FRAMES (SEE ALTERNATES)
The present hoistway entrances and frames shall be replaced.
Entrance door and frames shall be enameled or powder-coated steel. All finish colors and patterns shall be selected by the Owner and / or Architect from manufacturers standard line.

FLOOR DESIGNATION & CAR IDENTIFIER SIGNS
Floor designations & car identifiers shall be provided in raised characters and braille complying with ICC A117.1. Raised characters shall be 2 inches (51 mm) minimum in height. Floor designations & car identifiers shall be located on both jambs of elevator hoistway entrances. A raised star shall be provided on floor designations on both jambs at the main entry level.

NEW HOISTWAY DOOR TRACKS AND HANGERS
The present hoistway door tracks and hangers shall be replaced with new.

NEW HOISTWAY DOOR RESTRICTORS
Folding hoistway door restrictors shall be installed.

HOISTWAY EQUIPMENT

RETAIN HOISTWAY OPERATING DEVICES
The existing hoistway operating devices shall be retained.

RETAIN CAR GUIDES
The existing car guides shall be retained.

NEW CAB INTERIOR (SEE ALTERNATES)
A new elevator car interior shall be provided with 3 – plastic laminate panels (side, rear) and new LED ceiling. Ceiling panel shall be flat laminate. Provide ½" x 2" flat style aluminum handrails on 2 sides. Flooring shall be (VCT) vinyl composition tile. All finish colors and patterns shall be selected by the Owner and / or Architect from manufacturers standard line.

NEW PIT SWITCH
An emergency stop switch shall be located in the pit accessible from the pit access door.

RETAIN SPRING BUFFERS
The existing spring buffers shall be retained.

NEW ACCESS ALERT HOISTWAY SAFETY DEVICE
Furnish and install all the necessary components, circuitry and wiring for a new Access Alert system, which will operate on the elevator car top and pit.
Access Alert shall be installed so the elevator can be controlled in a safe manner when an authorized person accesses the elevator hoistway. The Access Alert system shall meet all applicable safety codes.
Access Alert, is specifically designed to:
- Prevent work on top of the elevator without the top of car inspection station engaged properly.
- Prevents moving the elevator on inspection while personnel are in a potentially unsafe position.
- Prevent working in the elevator pit, while the pit stop switch is not engaged properly.

Meet applicable building and elevator codes.

CAR FIXTURES

NEW CAR OPERATING PANEL
A car operating panel shall be furnished and shall be Satin stainless steel, ASTM A480/A480M, No. 4 finish complete with front wall return panels. The panel shall contain a bank of mechanical illuminated buttons marked to correspond with the landings served, an emergency call button, emergency stop button, door open and door close buttons and a light switch. All buttons, when applicable, to be long life LED illumination. This panel shall be equipped with a button that shall initiate two-way communication between the car and a location inside the building, switching over to another location if call is unanswered.

NEW EMERGENCY CAR LIGHTING
An emergency power unit employing a 6-volt sealed rechargeable battery and totally static circuit shall be provided. The power unit shall illuminate the elevator car and provide current to the alarm bell in the event of normal power failure. The equipment shall comply with the requirements of the latest applicable revision of the ASME/ANSI A17.1 Code.

NEW CAR POSITION INDICATOR
A car position indicator shall be installed. The position of the car in the hoistway shall be shown by illumination of the indication corresponding to the landing at which the car is stopped or passing.

NEW AUDIBLE SIGNAL (INDICATES PASSING OR STOPPING AT A LANDING)
An audible signal shall sound in the car to tell passengers that the car is either stopping or passing a landing served by the elevator.

NEW AUDIBLE SIGNAL
Equipment shall be furnished to allow an audible announcement in each car of the name of the next selected landing at which the elevator will stop and the committed direction of travel. Several advisory messages shall also be available to indicate the need for elevator on special service or passenger delay of elevator.

HALL FIXTURES

NEW HALL BUTTONS
New hall buttons shall be installed at each landing. An up button and a down button at each intermediate landing and a single button at each terminal landing shall be installed. All buttons, when applicable, shall be long-life LED illumination.

NEW HALL LANTERNS
Direction lanterns shall be provided at all hoistway entrances, with "UP" and "DOWN" indicators at intermediate landings and single indicators at terminal landings. A chime shall sound once for the "UP" direction and twice for the "DOWN" direction to announce the impending arrival of the associated elevator car.

NEW HALL POSITION INDICATOR
Hall position indicators shall be installed. The position of the car in the hoistway shall be shown by the illumination of the indicator corresponding to the landing that the car is stopped or passing.

HALL FIXTURE FINISH
Finish shall be satin stainless steel.

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SPECIFICATIONS ELEVATOR A

DATE	DRAWN BY
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JOB NO.	DWG. NO.
4062	A3.1

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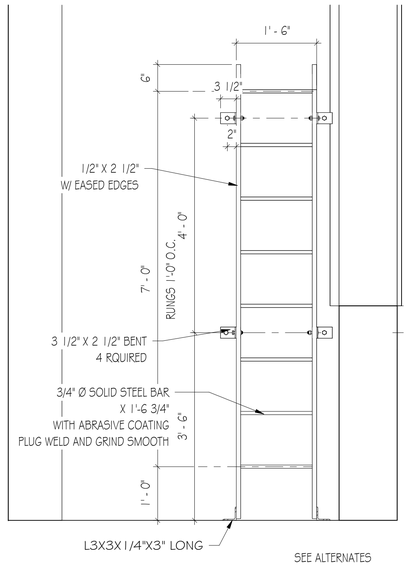
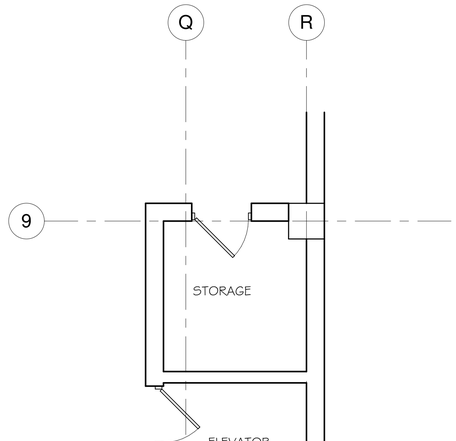
TYPICAL EXISTING HOISTWAY DOORS

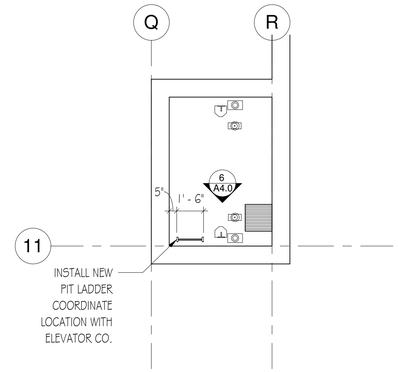


6 PIT LADDER DETAIL ELEV. C
SCALE: 3/4" = 1'-0"

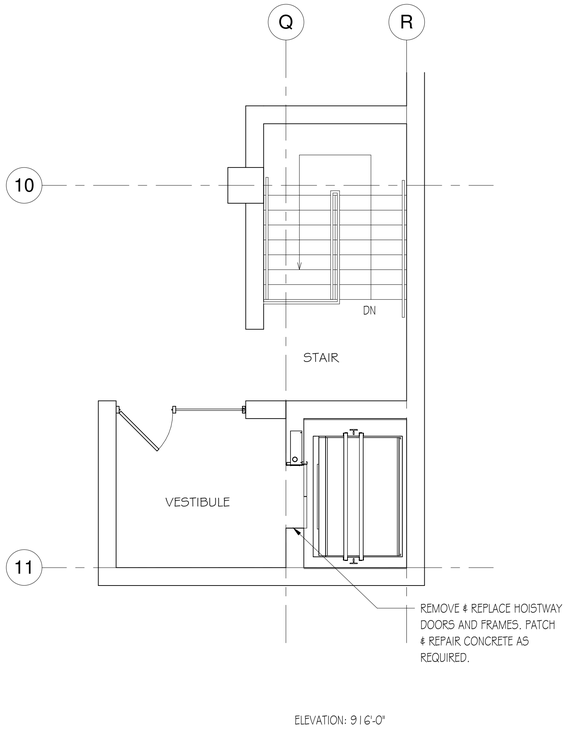
FOR NEW DOOR FRAME DETAILS SEE SHEET A3.0 DETAILS 6, 7, & 8.



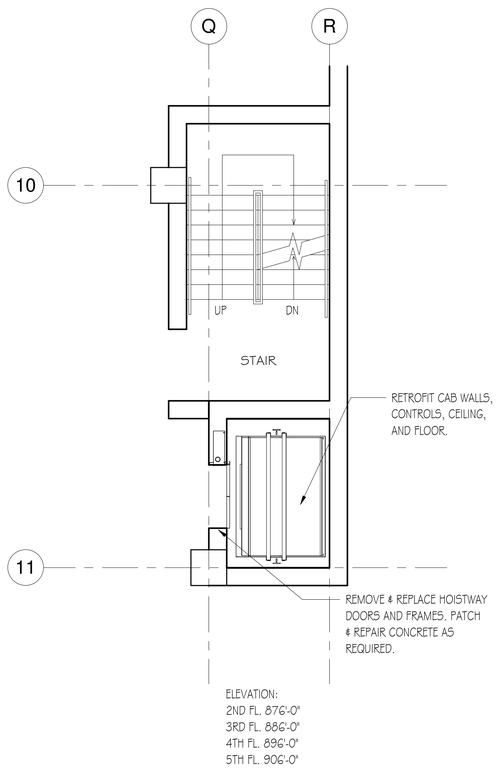
3 1ST FLOOR ELEVATOR C
SCALE: 1/4" = 1'-0"



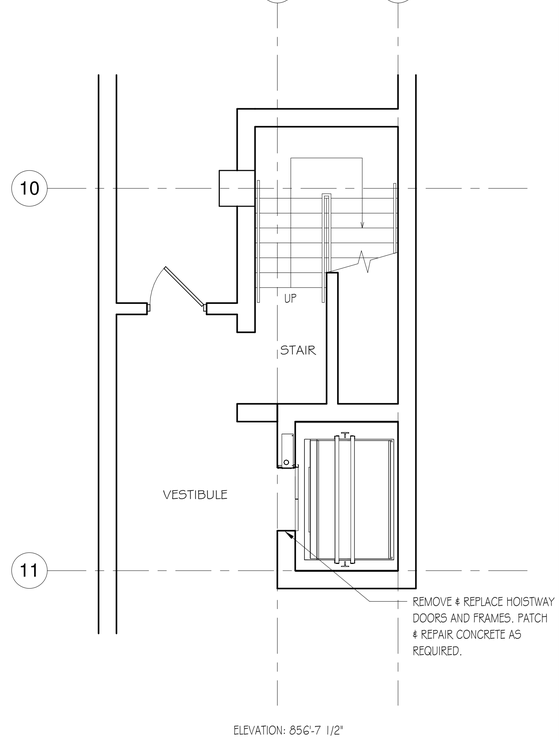
5 PIT PLAN ELEVATOR C
SCALE: 1/4" = 1'-0"



4 6TH FLOOR ELEVATOR C
SCALE: 1/4" = 1'-0"



2 2ND - 5TH FLOOR ELEVATOR C
SCALE: 1/4" = 1'-0"



1 GROUND FLOOR ELEV. C
SCALE: 1/4" = 1'-0"

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PROJECT & CLIENT

ELEVATOR MODERNIZATION FOR

CENTERTOWN PARKING GARAGE

101 WEST GRAY STREET
ELMIRA NY

REVISIONS

1	REBID	MAY, 2026

DRAWING TITLE

ELEVATOR C PLANS

DATE	DRAWN BY
NOVEMBER, 2024	DWY

JOB NO.	DWG. NO.
4062	A4.0

ELEVATOR C – MODERIZATION

SUMMARY & SCOPE
The following is a summary and scope of the modernization.

RELATED SPECIFCATION SECTION
Refer to Specification Section 142400 – Elevator Modernization for additional requirements.

REMOVAL OF EXISTING
The Contractor is responsible for all removals and cutting and patching required for the modernization. All removed components shall be disposed of off-site.

APPLICABLE CODES
All components and installation shall comply with ASME/ANSI A17.1 Code, NYS Codes, and all ADA Codes.

MANUFACTURER
The Basis of Design is Otis HydrolAccel or approved equal.

ELEVATOR TYPE
The type shall match the existing, but not limited to the following.
Hydraulic
Speed 120 feet per minute
Capacity 2,500 pounds
Openings 6 front 0 rear

OPERATION

AUTOMATIC SELF-LEVELING
The elevator shall be provided with automatic self-leveling that shall typically bring the elevator car level with the floor landings + ¼" regardless of direction of travel. The automatic self-leveling shall correct for over travel or under travel and rope stretch.

SPECIAL EMERGENCY SERVICE
Special Emergency Service operation shall be provided in compliance with the latest applicable revision of the ASME/ANSI A17.1 Code.

Special Emergency Service Phase I to return the elevator(s) non-stop to a designated floor shall be initiated by an elevator smoke detector system or a keyswitch provided in a lobby fixture.

The elevator contractor shall provide contacts on the elevator controller to receive signals from the smoke detector system.

A keyswitch in the car shall be provided for in-car control of each elevator when on Phase II of Special Emergency Service.

INDEPENDENT SERVICE
When the Independent Service switch in the car operating panel is actuated; it shall cancel previously registered car calls, disconnect the elevator from the hall buttons, and allow operation from the car buttons only. Door operation shall occur only after actuation of the "DOOR CLOSE" button.

INSPECTION OPERATION
For inspection purposes, an enabling keyswitch shall be provided in the car operating panel to permit operation of the elevator from on top of the car and to make car and hall buttons inoperative.

REMOTE ELEVATOR MONITORING MAINTENANCE
A microprocessor system that continuously monitors the Unit(s) on a 24-hour per day, year-round basis will be provided. The system will notify a dispatching center that the elevator is inoperative by sending a message via telephone line. This makes it possible to have a mechanic dispatched rapidly in response to such a message.

MACHINE ROOM EQUIPMENT

POWER SUPPLY
The power supply 3-phase alternating current will be retained with the new equipment arranged for this power supply.

NEW CONTROLLER
A microprocessor based HydroAccel control system shall be provided to perform all the functions of safe elevator motion and elevator door control. This shall include all the hardware required to connect, transfer and interrupt power, and protect the motor against overloading. The system shall also perform group operational control.

NEW SOFT STARTER
A new solid-state starter shall be provided. To be of the same power requirement and starting configuration as presently exists.

NEW PUMP MOTOR
The existing motor shall be replaced with a motor that is of the same power charactenstics and starting configuration as presently exists.

POWER UNIT
NEW SUBMERSIBLE
The existing power unit shall be replaced with a new power unit. The new power unit shall consist of a positive displacement pump, motor, integral 4-coil control valve, oil tank and muffler. The pump and motor shall be submerged and mounted to the tank with rubber isolators to reduce vibration and noise.

NEW VALVE
A new integral 4-coil control valve shall be installed to replace the existing valve. The valve shall consist of up, up leveling, down and down leveling controls along with manual lowering and a pressure relief valve.

NEW EMERGENCY RETURN UNIT
Furnish and install an Emergency Return Unit (ERU) providing auxiliary power to your hydraulic elevator. In the event of a primary power failure or a single-phase condition, the ERU is designed to automatically return the elevator to its lowest landing at normal speed and allow all passengers to exit safely.

DOOR EQUIPMENT

NEW CLOSED LOOP DOOR OPERATOR
Install a new closed loop door operator. Car and hoist way doors shall be power operated by means of a closed loop door operator mounted on top of the car designed to give consistent door performance with changes in temperature, wind or minor obstruction in the door track. The system continually monitors door speed and position and adjusts it accordingly to match the pre-determined profile.

NEW DOOR-PROTECTION DEVICE
Install a new solid state, infrared passenger protection device on the car door. Elevator doors shall be provided with a reopening device that will stop and reopen the car door(s) and hoistway door(s) automatically should the door(s) become obstructed by an object or person.

NEW INTERLOCKS
New interlocks will be installed. The interlocks shall prevent operation of the elevator unless all doors for that elevator are closed and shall maintain the doors in their closed position while the elevator is away from the landing.

NEW CAR DOOR TRACKS AND HANGERS
The present car door tracks and hangers shall be replaced with new.

NEW HOISTWAY ENTRANCES AND FRAMES (SEE ALTERNATES)
The present hoistway entrances and frames shall be replaced.
Entrance door and frames shall be enameled or powder-coated steel. All finish colors and patterns shall be selected by the Owner and / or Architect from manufacturers standard line.

FLOOR DESIGNATION & CAR IDENTIFIER SIGNS
Floor designations & car identifiers shall be provided in raised characters and braille complying with ICC A117.1. Raised characters shall be 2 inches (51 mm) minimum in height. Floor designations & car identifiers shall be located on both jambs of elevator hoistway entrances. A raised star shall be provided on floor designations on both jambs at the main entry level.

NEW HOISTWAY DOOR TRACKS AND HANGERS
The present hoistway door tracks and hangers shall be replaced with new.

NEW HOISTWAY DOOR RESTRICTORS
Folding hoistway door restrictors shall be installed.

HOISTWAY EQUIPMENT

RETAIN HOISTWAY OPERATING DEVICES
The existing hoistway operating devices shall be retained.

RETAIN CAR GUIDES
The existing car guides shall be retained.

NEW CAB INTERIOR (SEE ALTERNATES)
A new elevator car interior shall be provided with 3 – plastic laminate panels (side, rear) and new LED ceiling. Ceiling panel shall be flat laminate. Provide ½" x 2" flat style aluminum handrails on 2 sides. Flooring shall be (VCT) vinyl composition tile. All finish colors and patterns shall be selected by the Owner and / or Architect from manufacturers standard line.

NEW PIT SWITCH
An emergency stop switch shall be located in the pit accessible from the pit access door.

RETAIN SPRING BUFFERS
The existing spring buffers shall be retained.

NEW ACCESS ALERT HOISTWAY SAFETY DEVICE
Furnish and install all the necessary components, circuitry and wiring for a new Access Alert system, which will operate on the elevator car top and pit.
Access Alert shall be installed so the elevator can be controlled in a safe manner when an authorized person accesses the elevator hoistway. The Access Alert system shall meet all applicable safety codes.
Access Alert, is specifically designed to:
- Prevent work on top of the elevator without the top of car inspection station engaged properly.
- Prevents moving the elevator on inspection while personnel are in a potentially unsafe position.
- Prevent working in the elevator pit, while the pit stop switch is not engaged properly.

Meet applicable building and elevator codes.

CAR FIXTURES

NEW CAR OPERATING PANEL
A car operating panel shall be furnished and shall be Satin stainless steel, ASTM A480/A480M, No. 4 finish complete with front wall return panels. The panel shall contain a bank of mechanical illuminated buttons marked to correspond with the landings served, an emergency call button, emergency stop button, door open and door close buttons and a light switch. All buttons, when applicable, to be long life LED illumination. This panel shall be equipped with a button that shall initiate two-way communication between the car and a location inside the building, switching over to another location if call is unanswered.

NEW EMERGENCY CAR LIGHTING
An emergency power unit employing a 6-volt sealed rechargeable battery and totally static circuit shall be provided. The power unit shall illuminate the elevator car and provide current to the alarm bell in the event of normal power failure. The equipment shall comply with the requirements of the latest applicable revision of the ASME/ANSI A17.1 Code.

NEW CAR POSITION INDICATOR
A car position indicator shall be installed. The position of the car in the hoistway shall be shown by illumination of the indication corresponding to the landing at which the car is stopped or passing.

NEW AUDIBLE SIGNAL (INDICATES PASSING OR STOPPING AT A LANDING)
An audible signal shall sound in the car to tell passengers that the car is either stopping or passing a landing served by the elevator.

NEW AUDIBLE SIGNAL
Equipment shall be furnished to allow an audible announcement in each car of the name of the next selected landing at which the elevator will stop and the committed direction of travel. Several advisory messages shall also be available to indicate the need for elevator on special service or passenger delay of elevator.

HALL FIXTURES

NEW HALL BUTTONS
New hall buttons shall be installed at each landing. An up button and a down button at each intermediate landing and a single button at each terminal landing shall be installed. All buttons, when applicable, shall be long-life LED illumination.

NEW HALL LANTERNS
Direction lanterns shall be provided at all hoistway entrances, with "UP" and "DOWN" indicators at intermediate landings and single indicators at terminal landings. A chime shall sound once for the "UP" direction and twice for the "DOWN" direction to announce the impending arrival of the associated elevator car.

NEW HALL POSITION INDICATOR
Hall position indicators shall be installed. The position of the car in the hoistway shall be shown by the illumination of the indicator corresponding to the landing that the car is stopped or passing.

HALL FIXTURE FINISH
Finish shall be satin stainless steel.

EACH PRIME CONTRACTOR IS RESPONSIBLE FOR THE WORK OF THEIR TRADE.

ANY INVESTIGATION, CUTTING, PATCHING, TEMPORARY UTILITY (LIKE THE WATER FOR THE GC'S SAW CUTTING) IS EACH PRIME CONTRACTOR'S RESPONSIBILITY. IF THAT PRIME CONTRACTOR NEEDS A SUB IT'S THEIR RESPONSIBILITY TO INCLUDE IT IN THEIR WORK.

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REVISIONS

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DRAWING TITLE

SPECIFICATIONS ELEVATOR C

DATE	DRAWN BY
NOVEMBER, 2024	DWY

JOB NO.	DWG. NO.
4062	A4.1

DRAWING SYMBOLS

CA	COMPRESSED AIR
CD	CONDENSATE DRAIN
GHR	GLYCOL HOT WATER RETURN
GHS	GLYCOL HOT WATER SUPPLY
CHWR	CHILLED WATER RETURN
CHWS	CHILLED WATER SUPPLY
C	CONDENSATE
CTR	COOLING TOWER RETURN
CTS	COOLING TOWER SUPPLY
	DIRECTION OF FLOW
DN	DIRECTION OF PITCH
R	REFRIGERANT
RL	REFRIGERANT LIQUID
RS	REFRIGERANT SUCTION
RG	REFRIGERANT GAS
SV	STEAM VENT
HPLR	HEAT PUMP LOOP RETURN
HPLS	HEAT PUMP LOOP SUPPLY
HPC	HIGH PRESSURE CONDENSATE
HPS	HIGH PRESSURE STEAM
MPC	MEDIUM PRESSURE CONDENSATE
MPS	MEDIUM PRESSURE STEAM
LPC	LOW PRESSURE CONDENSATE
LPS	LOW PRESSURE STEAM
HWR	HOT WATER RETURN
HWS	HOT WATER SUPPLY
MU	MAKE-UP WATER
NG	NATURAL GAS
PC	PUMPED CONDENSATE
VAC	VACUUM
IW	INDIRECT WASTE

EXISTING DUCTWORK, PIPE, EQUIPMENT

NEW DUCTWORK, PIPE, EQUIPMENT

DUCTWORK, PIPE, EQUIPMENT TO BE REMOVED

PIPE TURNED UP

PIPE TURNED DOWN

BRANCH OFF TOP OF PIPE

BRANCH OFF BOTTOM OF PIPE

REDUCER

PIPE BREAK

BALL VALVE

BUTTERFLY VALVE

GATE VALVE

SHUT OFF VALVE (GATE, BALL, OR BUTTERFLY - REFER TO SPECS)

CHECK VALVE

BALANCE VALVE

ANGLE VALVE

PRESSURE REDUCING VALVE

STEAM TRAP

MOTOR OR SOLENOID CONTROL VALVE

MOTOR OR SOLENOID CONTROL VALVE (3-WAY)

TRIPLE DUTY VALVE

RELIEF VALVE

STRAINER

UNION

PRESSURE GAUGE

PUMP

EQUIPMENT TO BE REMOVED

VRF FAN COIL CASSETTE UNIT

REMOVE TO THIS POINT)

NEW CONNECTION TO EXISTING

SECTION CALLOUT (A / M-2)

DETAIL NUMBER (A / M-2)

DEMOLITION KEYNOTE (1)

KEYNOTE (1)

RETURN AIR

SUPPLY AIR

DUCT (DIMENSIONS SHOWN IN DUCT. DIMENSIONS IN INCHES.) (18/8)

DUCT (DIMENSIONS SHOWN BY LEADER. DIMENSIONS IN INCHES.) (18/8)

FLEX DUCT

DUCT SECTION - SUPPLY AIR

DUCT SECTION - EXHAUST AIR

DUCT SECTION - RETURN AIR

VOLUME DAMPER

14" ROUND DUCT (14" Ø)

18" x 8" FLAT OVAL DUCT (18/8)

NOTE:
NOT ALL SYMBOLS, ABBREVIATIONS AND EQUIPMENT DESIGNATIONS MAY APPLY TO THIS PARTICULAR PROJECT. ANY ADDITIONS OR OMISSIONS FROM THIS LEGEND SHEET DOES NOT IMPLY INCLUSION AND/ OR EXCLUSIONS OF ANY PARTICULAR ITEM FROM THIS PROJECT.

LINED DUCT (DIM. IS INTERNAL) (18/8)

MITERED ELBOW W/ TURNING VANES

WALL OR DUCT MOUNTED SUPPLY GRILLE

WALL OR DUCT MOUNTED RETURN OR EXHAUST GRILLE

FIRE DAMPER (FD / AD)

ACCESS DOOR TO BE LOCATED ON MOST ACCESSIBLE SIDE OF DUCT

SMOKE DAMPER (SD / AD)

ACCESS DOOR TO BE LOCATED ON MOST ACCESSIBLE SIDE OF DUCT

COMBINATION FIRE / SMOKE DAMPER (F/S / AD)

ACCESS DOOR TO BE LOCATED ON MOST ACCESSIBLE SIDE OF DUCT

MOTOR OPERATED DAMPER (M)

THERMOSTAT (T)

SENSOR (S)

HUMIDISTAT (H)

CARBON DIOXIDE SENSOR (C02)

EXHAUST GRILLE

SUPPLY DIFFUSER

RETURN GRILLE

REGISTER OR GRILLE - TOP NUMBER REPRESENTS TAG, SEE SCHEDULE; BOTTOM NUMBER REPRESENTS CFM. (8 / 750)

DIFFUSER - LETTER REPRESENTS TAG, SEE SCHEDULE; NUMBER REPRESENTS CFM (A / 125)

GENERAL NOTES

DUCTWORK GENERAL NOTES

1 HVAC CONTRACTOR TO PROVIDE CRANE AND NECESSARY EQUIPMENT TO HOIST ROOF MOUNTED HVAC EQUIPMENT FROM SITE TO FINAL ROOF LOCATION. GENERAL CONTRACTOR TO PROVIDE ALL ROOF PENETRATIONS REQUIRED TO ACCOMMODATE HVAC EQUIPMENT OPENINGS AND SET CURBS. HVAC CONTRACTOR TO COORDINATE EXACT LOCATION OF PENETRATIONS WITH G.C. AND SHALL ASSIST WITH SETTING ALL HVAC EQUIPMENT ROOF CURBS. HVAC CONTRACTOR SHALL BE RESPONSIBLE FOR TEMPORARY CAP OF ALL ROOF PENETRATIONS IN INTERIM FROM TIME PENETRATIONS ARE COMPLETE TO TIME EQUIPMENT IS SET ON ROOF CURBS. GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR FLASHING ALL EQUIPMENT CURBS AND OTHER HVAC RELATED ROOF PENETRATIONS. HVAC CONTRACTOR SHALL REMOVE AND DISPOSE OF TEMPORARY CAP WHEN EQUIPMENT IS SET IN PLACE.

2 PROVIDE 45 DEGREE SHOE-TAP FITTING AND VOLUME DAMPER AT ALL BRANCH DUCT TAKE-OFFS (TOP, SIDE AND BOTTOM) FOR SUPPLY, RETURN AND EXHAUST AIR, UNLESS SHOWN OR NOTED OTHERWISE. VOLUME DAMPERS SHALL BE OMITTED FROM VAV INLET BRANCH DUCTWORK.

3 COORDINATE HVAC INSTALLATION WITH STRUCTURE, CEILING, LIGHTING, CONDUIT, HEATING AND DOMESTIC PIPING, STORM AND SANITARY DRAIN PIPING (ALL TRADES). PREPARE AND SUBMIT FULL COORDINATION DRAWINGS FOR APPROVAL BY ENGINEER PRIOR TO ORDERING MATERIALS AND/OR BEGINNING CONSTRUCTION.

4 INSULATE OR LINE DUCTWORK AS SPECIFIED IN THE MECHANICAL INSULATION AND METAL DUCTS SPECIFICATIONS OR NOTED ON DRAWINGS. NOTE THAT DUCT SIZES SHOWN ON DRAWINGS ARE INSIDE NET CLEAR DIMENSIONS.

5 ALL 90 DEGREE RECTANGULAR ELBOWS AND DUCTWORK TEES SHALL BE HARD MITERED WITH FACTORY TURNING VANES. TURNING VANES SHALL BE OMITTED FROM AIR TRANSFER DUCT ELBOWS.

6 ALL DUCTWORK PASSING THROUGH NON-FIRE RATED WALLS TO BE SEALED AROUND PERIMETER (BOTH SIDES) WITH DRYWALL JOINT COMPOUND OR APPROVED EQUAL.

7 HVAC CONTRACTOR TO PROVIDE ALL WALL & ROOF PENETRATIONS 8"x8" OR SMALLER. ALL PENETRATIONS LARGER THAN 8"x8" IS THE RESPONSIBILITY OF THE G.C. COORDINATE ALL 8"x8" OR LARGER PENETRATION LOCATIONS WITH G.C. LINTELS (BY G.C.) REFER TO STRUCTURAL DRAWINGS FOR LINTEL SCHEDULE. PENETRATIONS AND LINTEL LOCATIONS TO BE COORDINATED WITH G.C. AND DOCUMENTED ON COORDINATION DRAWINGS.

8 ALL SUPPORT OF EQUIPMENT, DUCTWORK AND ASSOCIATED DISTRIBUTION SERVICES SHALL BE DESIGNED AND INSTALLED IN ACCORDANCE WITH THE BUILDING CODE OF NEW YORK STATE. THE DISCIPLINE CONTRACTOR SHALL BE RESPONSIBLE TO PROVIDE STRUCTURAL STEEL WHERE REQUIRED IN ORDER TO SUPPORT EQUIPMENT, DUCTWORK AND ASSOCIATED DISTRIBUTION SERVICES WHERE THE BUILDING STRUCTURE SPACING IS TOO GREAT TO ALLOW DIRECT SUPPORT. THE DISCIPLINE CONTRACTOR SHALL BE RESPONSIBLE FOR CONFIRMATION OF ALL SUPPORTS AND SHALL OBTAIN THE PROFESSIONAL SERVICE OF A STRUCTURAL ENGINEER LICENSED IN THE STATE OF NEW YORK AND FURNISH SEALED DRAWINGS AND DETAILS ILLUSTRATING SUCH SUPPORTS AND COMPLIANCE METHODS.

9 INSULATE ALL DUCTWORK PER NYS ENERGY CODE.

10 THE ABOVE GENERAL NOTES APPLY TO ALL HVAC CONSTRUCTION DOCUMENT DRAWINGS.

PIPING GENERAL NOTES

1 COORDINATE HVAC PIPING INSTALLATION WITH DUCTWORK, STRUCTURE, CEILING, LIGHTING, CONDUIT, HEATING AND DOMESTIC PIPING, STORM AND SANITARY DRAIN PIPING (ALL TRADES). PREPARE AND SUBMIT FULL COORDINATION DRAWINGS FOR APPROVAL BY ENGINEER PRIOR TO ORDERING MATERIALS AND/OR BEGINNING CONSTRUCTION.

2 PROVIDE ALL PIPING PENETRATIONS THROUGH WALLS, FLOORS AND DECKS REQUIRED WHERE SHOWN. SEAL ALL EXTERIOR WALL PENETRATIONS WEATHER TIGHT.

3 ALL PIPING PASSING THROUGH WALLS TO BE FIRE STOPPED AND SEALED AROUND PERIMETER WITH DRYWALL JOINT COMPOUND OR APPROVED EQUAL.

4 HVAC CONTRACTOR IS RESPONSIBLE FOR DRAINING, FILLING WITH WATER/CHEMICALS, AND AIR REMOVAL ASSOCIATED WITH ALL PIPING WORK.

5 INSULATE ALL PIPING PER NYS ENERGY CODE.

6 THE ABOVE GENERAL NOTES APPLY TO ALL HVAC CONSTRUCTION DOCUMENT DRAWINGS.

APPLICABLE CODES

- 2020 BUILDING CODE OF NEW YORK STATE
- 2020 ENERGY CONSERVATION CODE OF NEW YORK STATE
- 2020 MECHANICAL CODE OF NEW YORK STATE
- 2020 FIRE CODE OF NEW YORK STATE
- 2020 PLUMBING CODE OF NEW YORK STATE
- ACCESSIBLE AND USABLE BUILDING AND FACILITIES-CABO/ANSI A117.1
- NATIONAL ELECTRIC CODE
- NATIONAL FIRE CODE NFPA 13

SHEET INDEX

EQUIPMENT DESIGNATIONS

ACU	AIR CONDITIONING UNIT
AHU	AIR HANDLING UNIT
AD	ACCESS DOOR
AS	AIR SEPARATOR
BDD	BACK DRAFT DAMPER
B	BOILER
CA	AIR COMPRESSOR
CAV	CONSTANT AIR VOLUME BOX
CC	COOLING COIL
CFP	CHEMICAL FEED PUMP
CH	CHILLER
CHP	CHILLED WATER PUMP
CP	CONDENSATE PUMP
CRAC	COMPUTER ROOM UNIT
CRU	CONDENSATE RETURN UNIT
CT	COOLING TOWER
CU	CONDENSING UNIT
CUH	CABINET UNIT HEATER
CV	CONTROL VALVE
DHW	DOMESTIC WATER HEATER
EF	EXHAUST FAN
ET	EXPANSION TANK
FCU	FAN COIL UNIT
FP	FIRE PUMP
FT	FINNED TUBE
HC	HEATING COIL
HP	HEAT PUMP
HU	HUMIDIFIER
HWP	HOT WATER PUMP
HX	HEAT EXCHANGER
L	LOUVER
MAU	MAKE UP AIR UNITS
MD	MOTORIZED DAMPER
P	PUMP
PHC	PREHEAT COIL
PPU	PUMPING PACKAGED UNIT
PRG	GAS PRESSURE REGULATOR
PRV	PRESSURE REDUCING VALVE
R	REGISTER
RCP	RADIANT CEILING PANEL
RTU	ROOF TOP UNIT
UH	UNIT HEATER
UV	UNIT VENTILATOR
VAV	VARIABLE AIR VOLUME BOX
VD	VOLUME DAMPER
VFD	VARIABLE SPEED DRIVE
WS	WATER SOFTENER

NOTE:
SOME ABBREVIATIONS MAY NOT BE USED ON DRAWINGS

ABBREVIATIONS

%	PERCENT
AC	ALTERNATING CURRENT
ADJ	ADJACENT
AFF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
ALT	ALTERNATE
AMB	AMBIENT
AMP	AMPERE (AMP,AMPS)
ANSI	AMERICAN NATIONAL STANDARD INSTITUTE
APPROX	APPOXRIAMTE (LY)
AVG	AVERAGE
BFP	BACKFLOW PREVENTER
BHP	BRAKE HORSEPOWER
BLDG	BUILDING
BO	BOTTOM OF
BSMT	BASEMENT
BTU	BRITISH THERMAL UNIT
BV	BALANCING VALVE
CAP	CAPACITY
CIP	CAST IRON PIPE
CLG	CEILING
CLR	CLEAR
CO	CLEANOUT or CARBON MONOXIDE
COL	COLUMN
CONN	CONNECTION
CONC	CONCRETE
CONT	CONTINUOUS
CU FT	CUBIC FEET
CV	VALVE FLOW COEFFICIENT
DCDA	DOUBLE CHECK DETECTOR ASSEMBLY
DCV	DETECTOR CHECK VALVE
DCW	DOMESTIC COLD WATER
DEMO	DEMOLISH or DEMOLITION
DHW	DOMESTIC HOT WATER
DIA	DIAMETER
DIP	DUCTILE IRON PIPE
DWH	DOMESTIC WATER HEATER
DWV	DRAIN, WASTE, & VENT
DWG	DRAWING
(E)	EXISTING
ENGR	ENGINEER
EQ	EQUAL
EST	ESTIMATED
ETR	EXISTING TO REMAIN
EWH	ELECTRIC WATER HEATER
EWT	ENTERING WATER TEMPERATURE
EX	EXISTING
EXIST	EXISTING
EXP	EXPANSION
EXT	EXTERIOR
°F	DEGREES FAHRENHEIT
FA	FREE AREA
FIN	FINISHED
FL	FLOOR
FLA	FULL LOAD AMPS
FPM	FEET PER MINUTE
FPS	FEET PER SECOND
FT	FOOT OR FEET
FUT	FUTURE
GA	GAGE OR GAUGE
GAL	GALLONS
GC	GENERAL CONTRACTOR
GPM	GALLONS PER MINUTE
GPD	GALLONS PER DAY
GPH	GALLONS PER HOUR
HD	HEAD
HG	MERCURY
HORIZ	HORIZONTAL
HP	HORSEPOWER
HPC	HIGH PRESSURE CONDENSATE
HPS	HIGH PRESSURE STEAM
HR	HOUR
HVAC	HEATING, VENTILATING, AND AIR CONDITIONING
HZ	FREQUENCY
ID	DIAMTER, INSIDE
IN	INCH
INSUL	INSULATION
INT	INTERIOR
IPS	IRON PIPE SIZE
INV	INVERT
KW	KILOWATT
KWH	KILOWATT HOUR
LBS	POUNDS
LF	LINEAR FEET
LG	LENGTH
LOC	LOCATION
LPC	LOW PRESSURE CONDENSATE
LPS	LOW PRESSURE STEAM
LRA	LOCKED ROTOR AMPS
LWT	LEAVING WATER TEMPERATURE
MATL	MATERIAL
MAX	MAXIMUM
MBH	BTU PER HOUR (THOUSAND)
MECH	MECHANICAL
MFG	MANUFACTURER
MIN	MINIMUM
MISC	MISCELLANEOUS
MOCP	MAXIMUM OVERCURRENT PROTECTION
MPC	MEDIUM PRESSURE CONDENSATE
MPS	MEDIUM PRESSURE STEAM
MTG	MOUNTING
N/A	NOT APPLICABLE
NC	NORMALLY CLOSED
NIC	NOT IN CONTRACT
NO	NORMALLY OPEN
NPT	NATIONAL PIPE TREAD
NRS	NON-RISING STEM
NTS	NOT TO SCALE
OC	ON CENTER
OD	DIAMETER, OUTSIDE
OS&Y	OUTSIDE SCREW AND YOKE
PC	PLUMBING CONTRACTOR
PLBG	PLUMBING
PH	PHASE (ELECTRICAL)
PRESS	PRESSURE
PSF	POUNDS PER SQUARE FOOT
PSI	POUNDS PER SQUARE INCH
PSIG	PSI GUAGE
PRV	PRESSURE REDUCING VALVE
RCVR	RECEIVER
RECIRC	RECIRCULATE
RHW	HOT WATER RE-CIRCULATION
RO	ROUGH OPENING
RPDA	REDUCED-PRESSURE DETECTOR ASSY.
RPM	REVOLUTIONS PER MINUTE
RPZ	REDUCED-PRESSURE ZONE
SCH	STEAM CAPTURE HOOD
SPEC	SPECIFICATION
SPLY	SUPPLY
SQ	SQUARE
SQ FT	SQUARE FOOT (FEET)
SQ IN	SQUARE INCH (INCHES)
STD	STANDARD
SUCT	SUCTION
TSTAT	THERMOSTAT
TBD	TO BE DETERMINED
TC	TEMPERATURE CONTROL CONTRACTOR
TD	TEMPERATURE DIFFERENCE
TEMP	TEMPERATURE
TMV	THERMOSTATIC MIXING VALVE
TO	TOP OF
TYP	TYPICAL
V	VOLT
VAC	VACUUM
VAR	VARIABLE
VEL	VELOCITY
VIF	VERIFY IN FIELD
VOL	VOLUME
W	WATT
W/	WITH
W/O	WITH OUT
WCO	WALL CLEANOUT
WHA	WATER HAMMER ARRESTER
WM	WATER METER
WPD	WATER PRESSURE DROP
WT	WEIGHT
WWP	WORKING WATER PRESSURE

NOTE:
SOME ABBREVIATIONS MAY NOT BE USED ON DRAWINGS

5/8/2026 2:33:03 PM

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labellapc.com
Project Number: 2244352

STATE OF NEW YORK · RICHARD J. PASSE · 071043 · LICENSED PROFESSIONAL ENGINEER

Expiration: September 2026

PROJECT & CLIENT

ELEVATOR MODERNIZATION FOR

CENTERTOWN PARKING GARAGE

101 WEST GRAY STREET
ELMIRA NY

REVISIONS

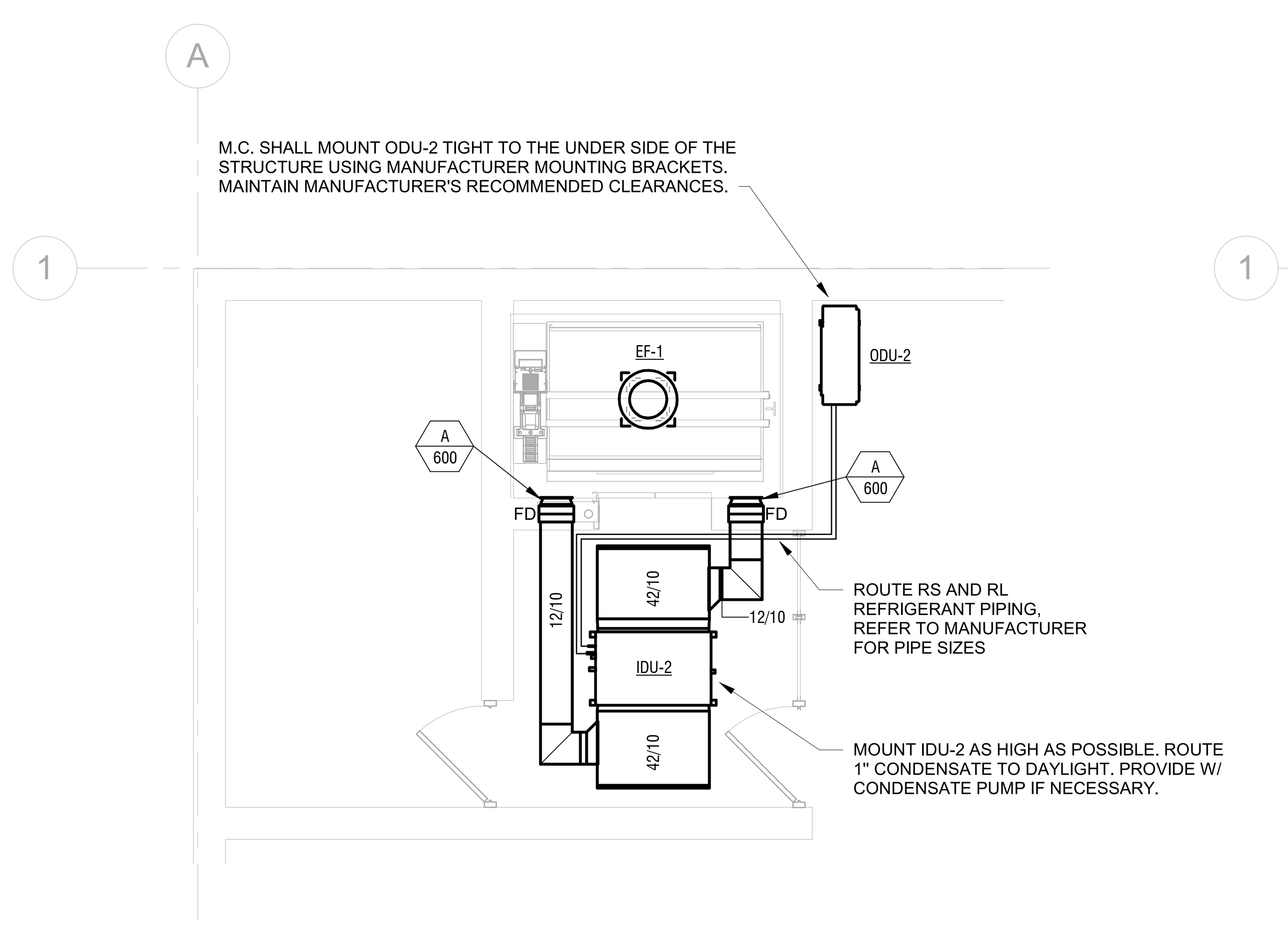
1	REBID	MAY, 2026

DRAWING TITLE

MECHANICAL LEGEND SHEET

DATE: NOVEMBER, 2024
DRAWN BY: MM

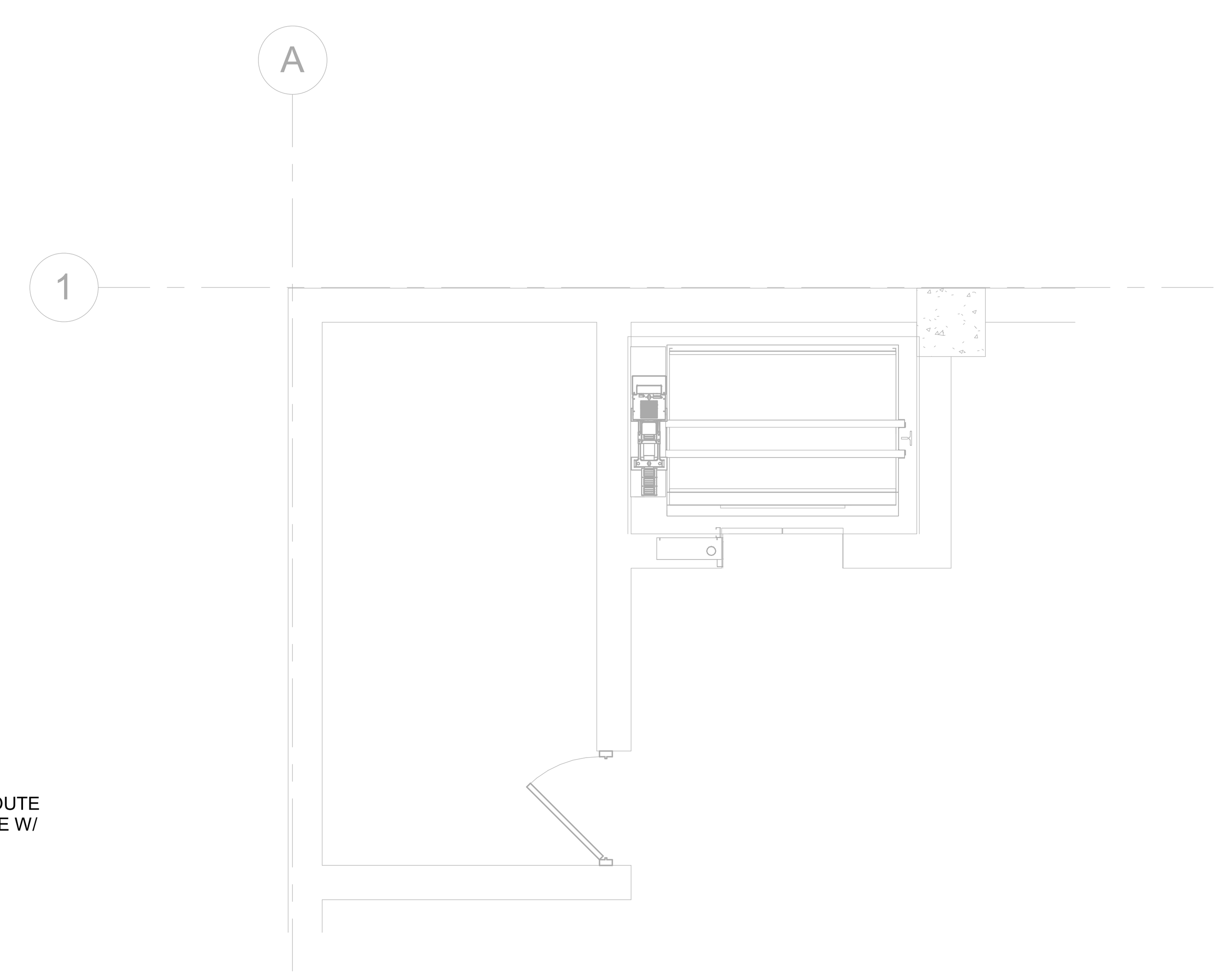
JOB NO.: 4062
DWG. NO.: M1.0



3 M3.0 SEVENTH FLOOR PLAN ELEV. A - MECHANICAL

1/4" = 1'-0"

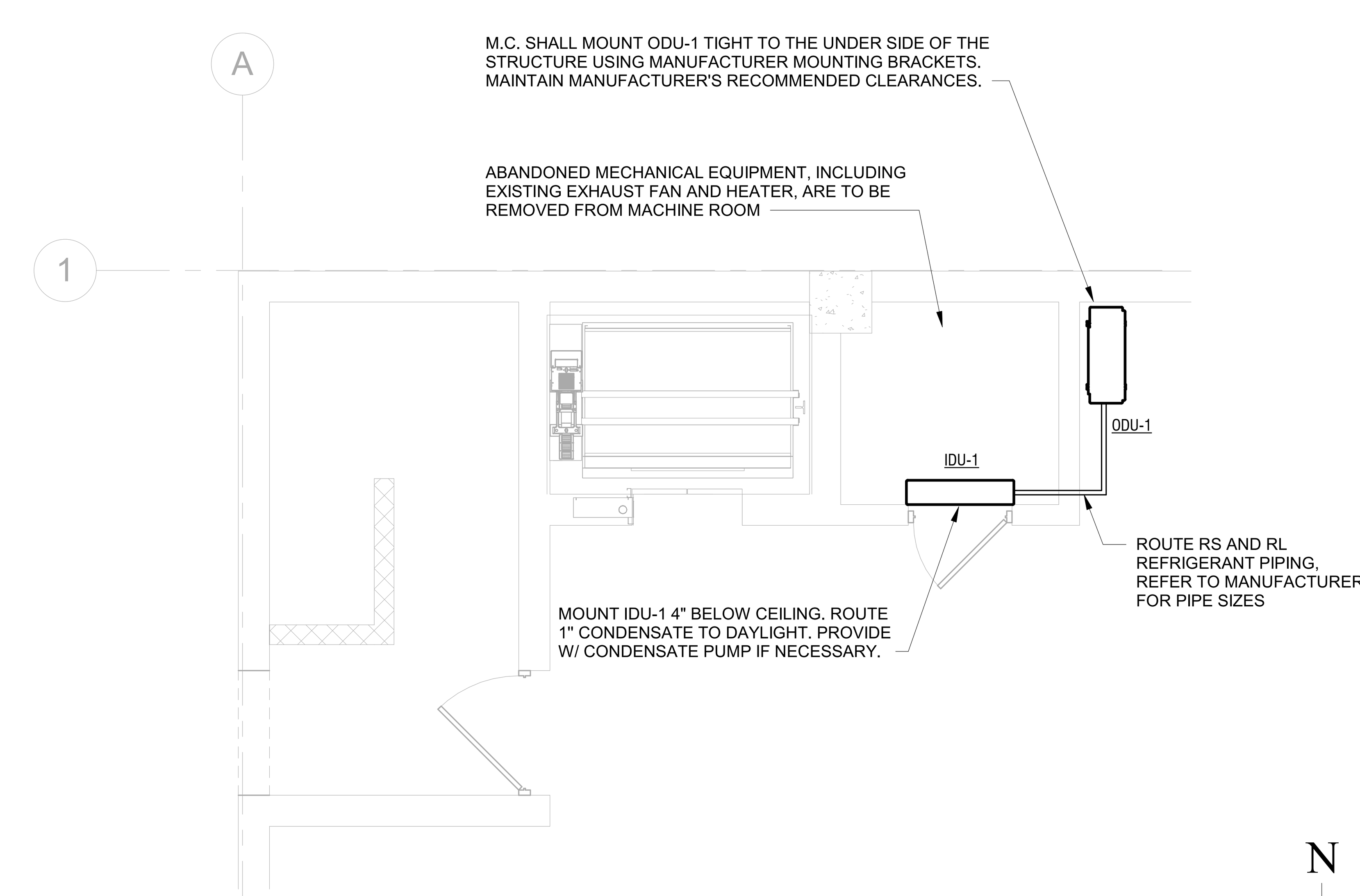
0' 2' 4' 8'



2 M3.0 SECOND, THIRD, FOURTH, FIFTH, AND SIXTH FLOOR PLANS ELEV. A - MECHANICAL

1/4" = 1'-0"

0' 2' 4' 8'



1 M3.0 FIRST FLOOR ELEV. A PLAN - MECHANICAL

1/4" = 1'-0"

0' 2' 4' 8'

N

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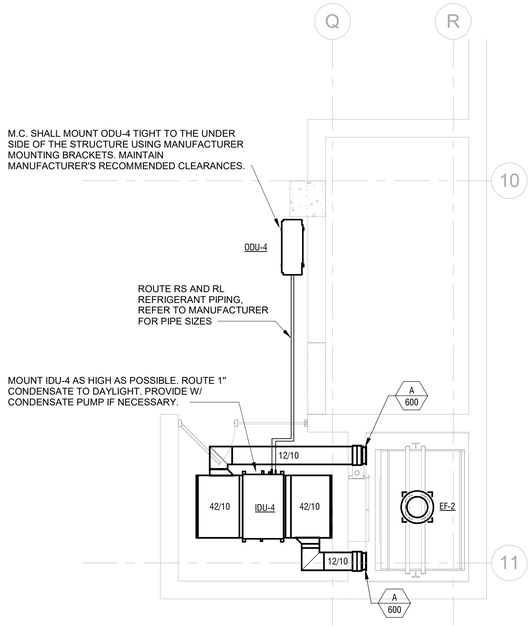
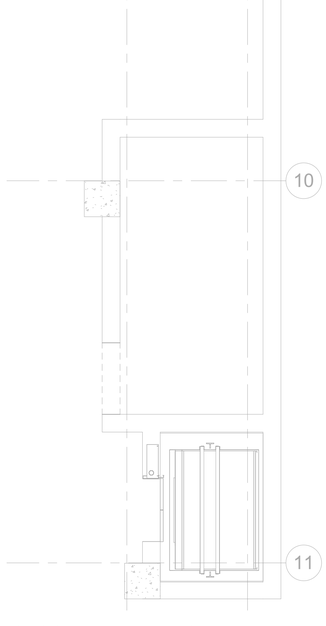
DRAWING TITLE

ELEVATOR A PLANS

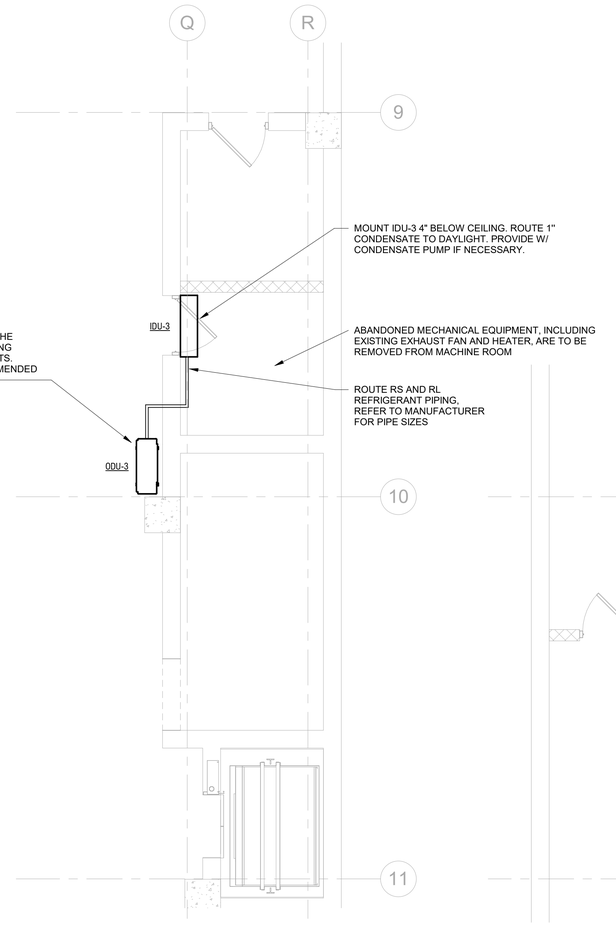
DATE	DRAWN BY
NOVEMBER, 2024	MM
JOB NO.	DWG. NO.
4062	M3.0



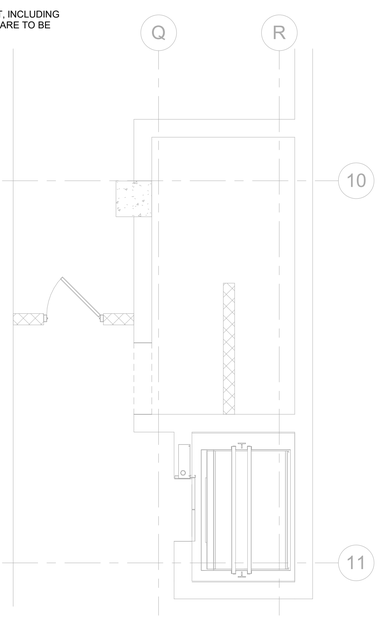
4 M3.1 SIXTH FLOOR PLAN ELEV. C - MECHANICAL
1/4" = 1'-0"
0' 2' 4' 8'



3 M3.1 SECOND, THIRD, FOURTH, AND FIFTH FLOOR PLANS ELEV. C - MECHANICAL
1/4" = 1'-0"
0' 2' 4' 8'



2 M3.1 FIRST FLOOR ELEV. C PLAN - MECHANICAL
1/4" = 1'-0"
0' 2' 4' 8'



1 M3.1 GROUND FLOOR ELEV. C PLAN - MECHANICAL
1/4" = 1'-0"
0' 2' 4' 8'

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101 WEST GRAY STREET
ELMIRA NY

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1	REBID	MAY, 2026

DRAWING TITLE

ELEVATOR C PLANS

DATE: NOVEMBER, 2024
DRAWN BY: MM

JOB NO.: 4062
DWG. NO.: M3.1

SPLIT SYSTEM SCHEDULE

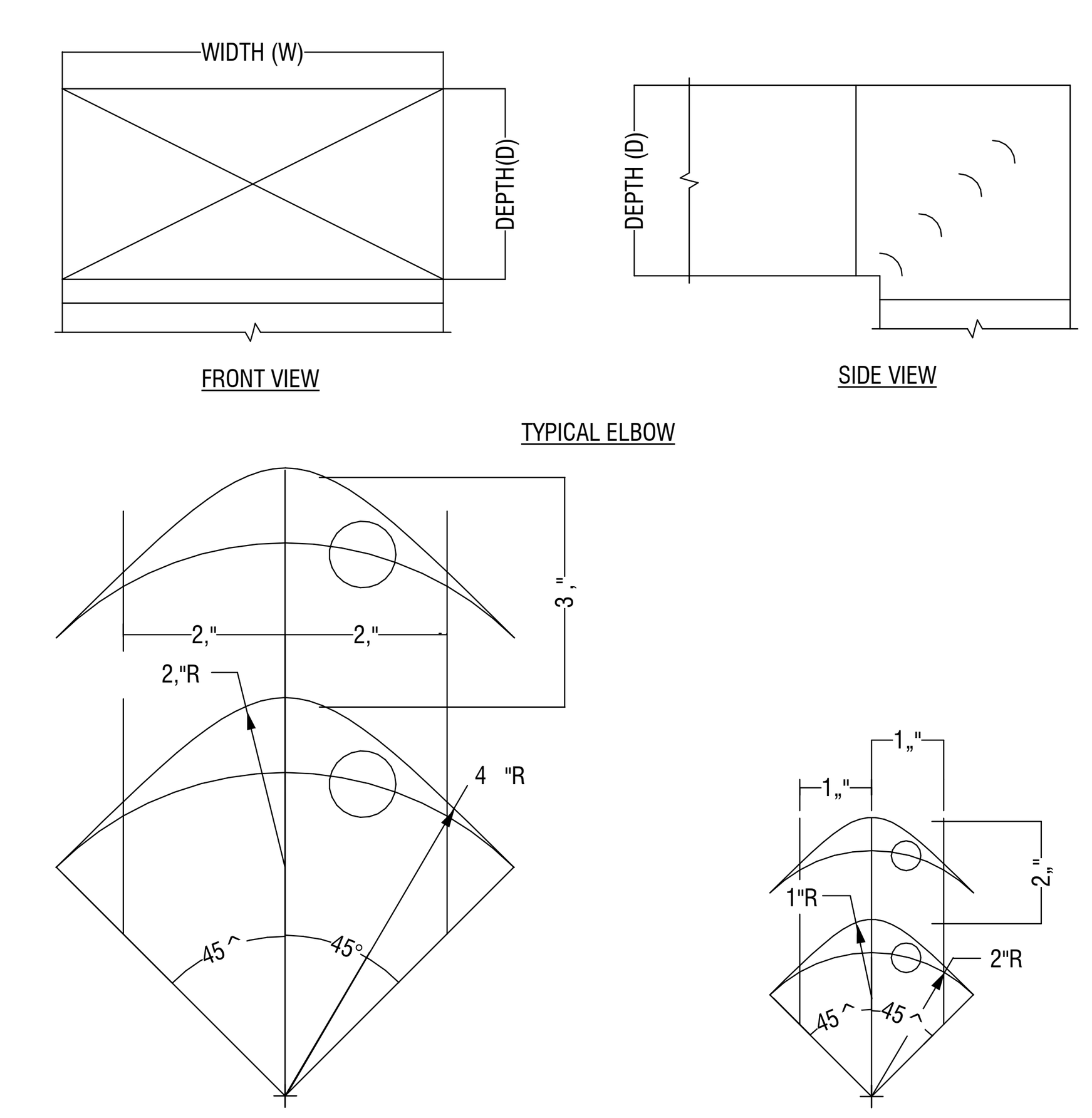
No.	LOCATION	COOLING COIL: CAPACITY (MBH)	COOLING COIL: EER	COOLING COIL: REFRIG. TYPE	INDOOR UNIT: DRY CFM	INDOOR UNIT: WET CFM	INDOOR UNIT: WEIGHT (lb)	INDOOR UNIT: POWER	INDOOR UNIT: MAX FUSE	INDOOR UNIT: MCA	INDOOR UNIT: FAN FLA	OUTDOOR UNIT: WEIGHT (lb)	OUTDOOR UNIT: POWER	OUTDOOR UNIT: MAX FUSE	OUTDOOR UNIT: MCA	OUTDOOR UNIT: FAN FLA	MANUFACTURER	MODEL	NOTES
IDU-1	MACHINE ROOM	24.0	12.2	R-410A	700	603	46	208/60/1	15	1.0	0.27	151	208/60/1	26	19.0	0.4	MITSUBISHI	PKA-A24KA8/PUY-A24NHA7	UNIT PAIRED WITH ODU-1; COOLING ONLY, WALL HUNG MINISPLIT
IDU-2	ELEVATOR LOBBY	24.0	12.2	R-410A	600	600	67	208/60/1	15	2.3	1.8	153	208/60/1	26	19.0	-	MITSUBISHI	PEAD-A24AA9/PUZ-A24NHA7	UNIT PAIRED WITH ODU-2; HEAT PUMP; TEMPERATURE SET FOR 50°F FOR HEATING AND 80°F FOR COOLING
IDU-3	MACHINE ROOM	24.0	12.2	R-410A	700	603	46	208/60/1	15	1.0	0.27	151	208/60/1	26	19.0	0.4	MITSUBISHI	PKA-A24KA8/PUY-A24NHA7	UNIT PAIRED WITH ODU-3; COOLING ONLY, WALL HUNG MINISPLIT
IDU-4	ELEVATOR LOBBY	24.0	12.2	R-410A	600	600	67	208/60/1	15	2.3	1.8	153	208/60/1	26	19.0	-	MITSUBISHI	PEAD-A24AA9/PUZ-A24NHA7	UNIT PAIRED WITH ODU-4; HEAT PUMP; TEMPERATURE SET FOR 50°F FOR HEATING AND 80°F FOR COOLING

EXHAUST FAN SCHEDULE

No.	LOCATION	SERVICE	TYPE	CFM	ESP (in.)	Electrical Data: HP	Electrical Data: VOLTS PH	Electrical Data: FLA	SONES	WEIGHT (lb)	MANUFACTURER	MODEL	NOTES
EF-1	ELEVATOR SHAFTS	EXHAUST	DOWNBLAST	595	0.05	1/25	115V/1Ph/60Hz	-	5.4	43	GREENHECK	G-090-G	PROVIDE WITH GRAVITY DAMPER; TEMPERATURE SENSOR TO BE LOCATED IN ELEVATOR SHAFT SET TO 90°F
EF-2	ELEVATOR SHAFTS	EXHAUST	DOWNBLAST	595	0.05	1/25	115V/1Ph/60Hz	-	5.4	43	GREENHECK	G-090-G	PROVIDE WITH GRAVITY DAMPER; TEMPERATURE SENSOR TO BE LOCATED IN ELEVATOR SHAFT SET TO 90°F

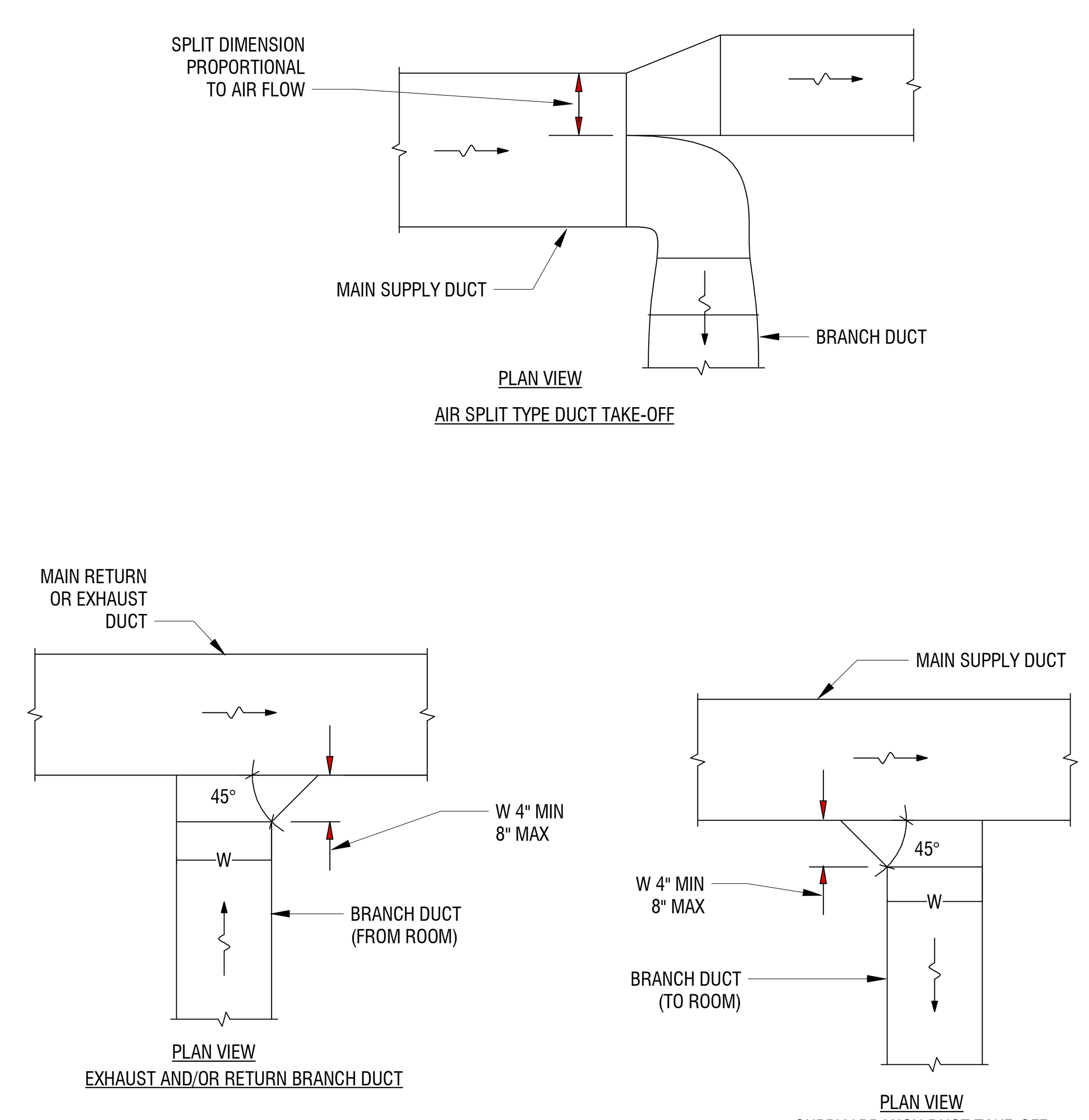
DIFFUSER SCHEDULE

No.	NECK SIZE (Dia.)	FACE SIZE	MATERIAL	DAMPER	MOUNTING	FINISH	USE	DESCRIPTION	MANUFACTURER	MODEL	NOTES
A	12"x10"	14"x12"	STEEL	NONE	SURFACE	-	SUPPLY/RETURN	HEAVY DUTY GRILLE	PRICE	300	1, 2



NOTES:

1. ALL SQUARE OR RECTANGULAR ELBOWS SHALL HAVE ONE OF THE TWO TYPES OF TURNING VANES SHOWN ABOVE. SINGLE VANE ELBOWS SHALL NOT BE PERMITTED.
2. CONSTRUCT, SUPPORT, AND FASTEN ALL VANES AS RECOMMENDED BY SMACNA.
3. ALL SQUARE OR RECTANGULAR ELBOWS SHOWN ON PLANS FOR EXHAUST OR RETURN DUCT MAY BE MADE RADIUS ELBOWS, PROVIDED THAT SPACE PERMITS RADIUS INSTALLATION.
4. ALL SQUARE OR RECTANGULAR ELBOWS SHOWN ON PLANS FOR SUPPLY DUCT MAY BE MADE RADIUS ELBOWS, PROVIDED THAT SPACE PERMITS RADIUS INSTALLATION AND/OR THERE IS NO OUTLET OR TAKE-OFF WITHIN 5D ON THE DOWNSTREAM SIDE OF THE ELBOW.



(A) RETAINING ANGLE: SHALL BE MINIMUM OF 1-1/2"x1-1/2"x14 GA. FASTEN TO SLEEVE ONLY WITH 1/4" DIA. BOLTS & NUTS ON 8" CENTERS & WITH MINIMUM OF TWO CONNECTIONS IN EACH SIDE. RETAINING ANGLES SHALL OVERLAP WALL A MINIMUM OF ONE INCH ON ALL FOUR SIDES.

(B) CLEARANCE: OPENINGS IN WALL OR FL. SHALL BE 1/8" PER FOOT LARGER THAN DAMPER DIMENSIONS (3/16" FOR STAINLESS STEEL) MINIMUM CLEARANCE OF 1/4" REQUIRED IN BOTH DIRECTIONS.

(C) STEEL SLEEVE: 14 GAGE WITH BREAKAWAY CONNECTIONS.

(D) FIRE DAMPER: UL BLADE TYPE.

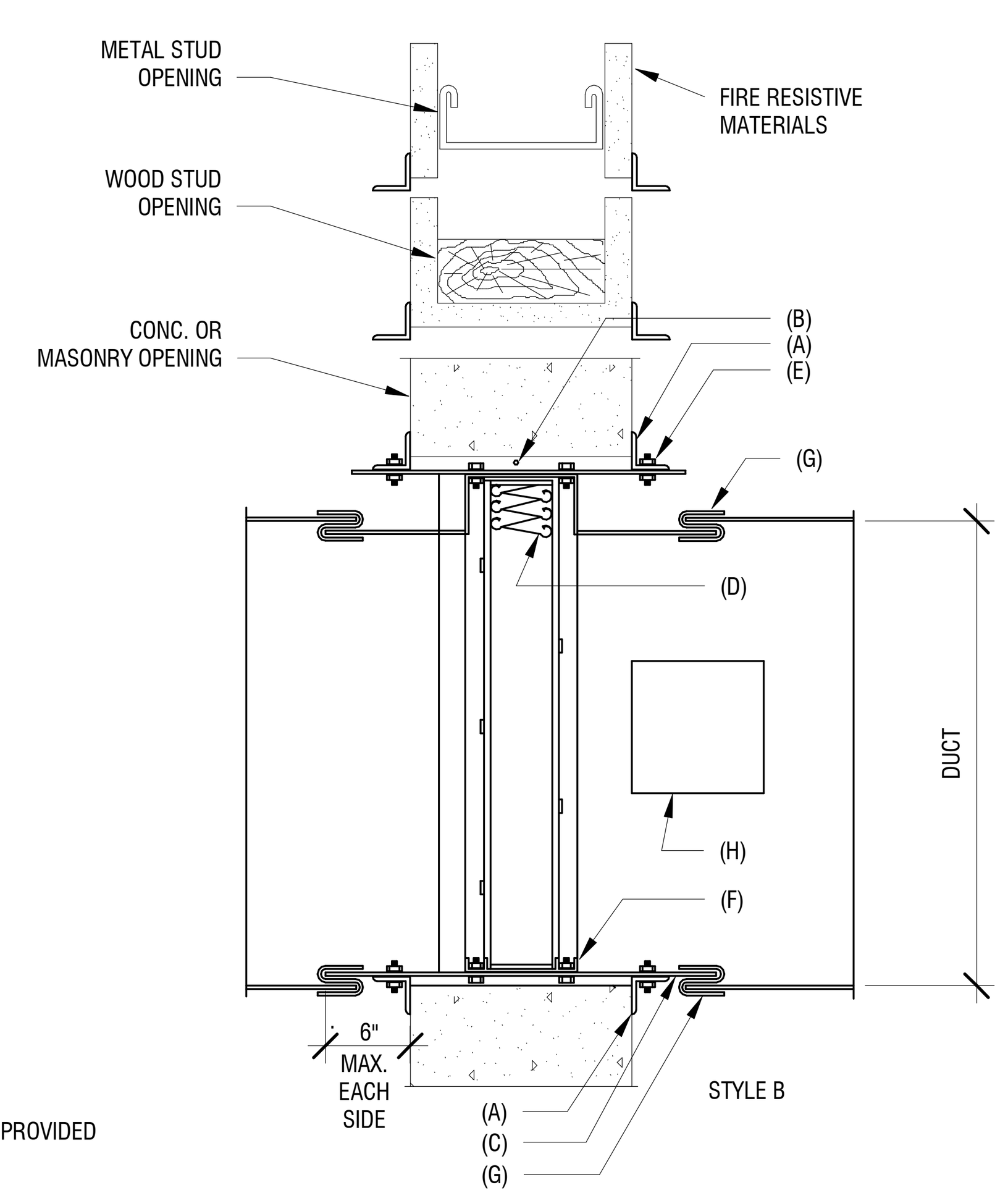
(E) BOLTS AND NUTS: SECURE RETAINING ANGLES TO SLEEVE ONLY ON 8" CENTERS WITH 1/4" DIAMETER. BOTS & NUTS AND WITH A MINIMUM OF TWO CONNECTIONS IN EACH SIDE.

(F) SECURE DAMPER TO SLEEVE ON SAME SPACING AS ANGLES AS RECOMMENDED BY SMACNA. BREAKAWAY CONNECTIONS: PROVIDE.

(G) BREAKAWAY CONNECTIONS AT JOINTS BETWEEN DUCTS AND SLEEVE PER SMACNA RECOMMENDATIONS.

(H) ACCESS DOOR

NOTE:
FOR REFERENCE ONLY- USE MANUFACTURER PROVIDED UL LISTED INSULATION REQUIREMENTS.



3 / M5.0 — DUCT - FD - FIRE DAMPER DETAIL
NOT TO SCALE

2 / M5.0 — DUCT - TYPICAL DUCTWORK DETAILS
NOT TO SCALE

1 / M5.0 — DUCT - SQUARE OR RECTANGULAR ELBOWS
NOT TO SCALE

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MECHANICAL DETAILS & SCHEDULES

DATE	DRAWN BY
NOVEMBER, 2024	MM

JOB NO.	DWG. NO.
4062	M5.0

DRAWING SYMBOLS

AV	ACID VENT
AW	ACID WASTE
CA	COMPRESSED AIR
FR	FUEL OIL RETURN
FS	FUEL OIL SUPPLY
DCW	DOMESTIC COLD WATER
DHW	DOMESTIC HOT WATER SUPPLY
DHR	DOMESTIC HOT WATER RECIRC
IW	INDIRECT WASTE
NG	NATURAL GAS
SAN	SANITARY DRAIN
ST	STORM DRAIN
VAC	VACUUM
V	VENT

EXISTING PIPE, EQUIPMENT

NEW PIPE, EQUIPMENT

PIPE, EQUIPMENT TO BE REMOVED

F.D. FLOOR DRAIN

R.D. ROOF DRAIN

F.S. FLOOR SINK

P TRAP

BRANCH OFF TOP OF PIPE

BRANCH OFF BOTTOM OF PIPE

PIPE TURNED UP

PIPE TURNED DOWN

REDUCER

PIPE BREAK

BALL VALVE

BUTTERFLY VALVE

GATE VALVE

SHUT OFF VALVE (GATE, BALL, OR BUTTERFLY - REFER TO SPECS)

CHECK VALVE

BALANCE VALVE

ANGLE VALVE

PRESSURE REDUCING VALVE

STEAM TRAP

MOTOR OR SOLENOID CONTROL VALVE

MOTOR OR SOLENOID CONTROL VALVE (3-WAY)

TRIPLE DUTY VALVE

RELIEF VALVE

STRAINER

WHA WATER HAMMER ARRESTER

P-TRAP

UNION

PRESSURE GAUGE

PUMP

CO CLEAN OUT

EQUIPMENT TO BE REMOVED

POINT OF DISCONNECTION

POINT OF CONNECTION

A / M-2 SECTION CALLOUT

A / M-2 DETAIL NUMBER

1 DEMOLITION KEY NOTE

1 KEY NOTE

NOTE:
NOT ALL SYMBOLS, ABBREVIATIONS AND EQUIPMENT DESIGNATIONS MAY APPLY TO THIS PARTICULAR PROJECT. ANY ADDITIONS OR OMISSIONS FROM THIS LEGEND SHEET DOES NOT IMPLY INCLUSION AND/ OR EXCLUSIONS OF ANY PARTICULAR ITEM FROM THIS PROJECT.

GENERAL NOTES

PLUMBING PIPING NOTES AND SPECIFICATIONS:

1. IF EXISTING CONSTRUCTION IS DAMAGED DURING WORK BY THIS CONTRACTOR, REPAIR WITH SIMILAR OR LIKE MATERIALS, SUBJECT TO ENGINEERS APPROVAL.
2. DRAWINGS ARE SCHEMATIC AND DO NOT SHOW EXACT ROUTING, POINTS OF CONNECTION, ADAPTER FITTINGS, ETC. THE PIPING CONTRACTOR IS TO COORDINATE WITH OTHER TRADES, IDENTIFY PIPE, EQUIPMENT CONNECTIONS AND FINAL CONNECTION TO VENDOR SUPPLIED EQUIPMENT/ SYSTEMS. PROVIDE OFFSETS IN PIPING AND ADAPTER FITTINGS WHERE REQUIRED TO ACHIEVE A COMPLETE COORDINATED INSTALLATION.
3. PROVIDE REDLINE MARKUPS OF INSTALLED PIPING AND EQUIPMENT TO ENGINEER FOR RECORD. PROVIDE DIMENSIONS, ELEVATIONS OF PIPE, AND CHANGES IN DIRECTION.
4. SEAL HOLES IN EXISTING CONSTRUCTION LEFT BY THE REMOVAL OF PIPING OR EQUIPMENT BY MATCHING EXISTING CONSTRUCTION. MAINTAIN FIRE/SMOKE BARRIER RATINGS. FIRESTOP NEW WALL PENETRATIONS THROUGH FIRE RATED CONSTRUCTION USING UL LISTED ASSEMBLIES.
5. COORDINATE PIPE ROUTE WITH EXISTING CONSTRUCTION. FIELD ROUTE TO MAINTAIN SLOPE AND TO AVOID LOW POINTS IN PITCHED DRAINS. PROTECT BUILDING AND FURNISHINGS FROM DAMAGE DURING CONSTRUCTION.
6. SHUTDOWNS ARE TO BE SCHEDULED A MINIMUM OF 5 WORKING DAYS IN ADVANCE OF WORK. DO NOT PROCEED WITHOUT APPROVAL OF THE PROJECT MANAGER.
7. WORK AND MATERIALS SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE BUILDING CODE AND PLUMBING CODES OF NEW YORK STATE. THE CONTRACTOR SHALL ADHERE TO THE REQUIREMENTS OF THE AHJ.
8. PIPE SUPPORTS IN DIRECT CONTACT WITH PIPE TO BE OF SIMILAR MATERIALS OF CONSTRUCTION. WHERE STEEL SUPPORTS ARE IN CONTACT WITH COPPER, PROVIDE COPPER CLAD HANGERS. PIPE SUPPORT SPACING TO BE INSTALLED IN ACCORDANCE WITH THE PLUMBING CODE OF NEW YORK STATE.. MAXIMUM DISTANCE BETWEEN EXPOSED PIPE SUPPORTS TO BE NO GREATER THAN 8 FEET FOR 1-1/ 2" PIPE.
9. PIPING IS TO BE INSTALLED SO THAT IT IS RESISTANT TO VANDALISM. SUPPORTS TO BE OVERSIZED AND BE RIGIDLY MOUNTED TO THE STRUCTURE.
10. CONTRACTOR SHALL TEST ALL PIPING IN ACCORDANCE WITH APPLICABLE CODES AND CORNING INCORPORATED PIPING STANDARDS. LOCATE TEST POINTS WHERE NEW AND EXISTING SYSTEMS INTERFACE. PRESSURE PIPE TO B0E TESTED TO 50 PSIG FOR 1 HOUR WITH NO LOSS OF PRESSURE. PROVIDE TEST PLUGS AND FITTINGS. INSTALL UNIONS TO FACILITATE TESTING. TESTING TO BE WITNESSED BY THE OWNERS REPRESENTATIVE.
11. PIPE THAT DOES NOT PASS PRESSURE TESTS WILL BE REPAIRED AT NO ADDITIONAL COST AND RETESTED UNTIL IT PASSES.
12. INSULATE PIPE ONLY AFTER IT HAS BEEN TESTED AND APPROVED. PIPE INSULATION SYSTEM TO BE VANDAL RESISTANT AND INSTALLED TO RESIST HARSH ENVIRONMENTS.
13. LABEL ALL PIPING AND SHOW DIRECTION OF FLOW EVERY 20 FEET ON CENTER. LABELS SHALL BE VISIBLE FROM FLOOR OR NORMAL LINE OF SIGHT. LABEL EXISTING AND NEW PIPE IN AREA OF WORK. LABELS TO BE STENCILED ON PIPE, USING WHITE PAINT ON DARK SURFACES, BLACK PAINT ON LIGHT SURFACES.
14. PUMPED SANITARY WASTE PIPING IN SECURED LOCATIONS (INDOOR AREAS) TO BE ASTM – B88, TYPE L COPPER WITH LONG RADIUS FITTINGS. JOINTS MAY BE SOLDERED USING LEAD FREE SOLDER OR PRESS TYPE FITTINGS. PRO-PRESS, MUELLER OR APPROVED EQUAL.
15. PUMPED SANITARY WASTE PIPING IN EXPOSED AREAS OF GARAGE TO BE SCHEDULE 40, GALVANIZED STEEL PIPE WITH THREADED FITTINGS ONLY. DO NOT USE 90 DEGREE FITTINGS. USE DOUBLE 45 DEGREE ELBOWS FOR 90 DEGREE TURNS. LONG RADIUS ELBOWS MAY BE USED IF AVAILABLE.
16. PLUMBING VALVES TO BE LEAD FREE BRASS OR BRONZE, MINIMUM 200 CWP, WITH PRESS, SOLDER OR THREADED END CONNECTIONS. BALL VALVES TO BE FULL PORT, STAINLESS STEEL BALL AND STEM WITH LOCKING LATCH LEVER. BALL VALVES TO BE APOLLO, 77FLF-240-27 SERIES OR APPROVED EQUAL. CHECK VALVES TO BE SWING TYPE WITH PTFE SEATS, APOLLO 163T-LF OR APPROVED EQUAL. VALVES TO BE IN COPPER PIPE SECTIONS ONLY.
17. PROVIDE DIELECTRIC FITTINGS OR FLANGES WITH DIELECTRIC ISOLATION KIT FOR TRANSITIONS BETWEEN DISSIMILAR METALS.
18. PUMPED SANITARY WASTE LINES IN SECURE AREAS TO BE INSULATED USING GLASS FIBER WITH ASJ. THICKNESS TO BE 1". IN EXPOSED AREAS OF THE GARAGE, INSULATION TO BE CELLULAR GLASS THERMAL INSULATION, SIMILAR TO OWENS CORNING FOAMGLAS, WITH PITWRAP VAPOR BARRIER AND 0.016" 304 STAINLESS STEEL JACKET, SMOOTH FINISH. INSULATION THICKNESS TO BE 1". PROVIDE VAPOR BARRIER AROUND PIPE HANGERS AND SUPPORTS.
19. PIPE SUPPORTS TO BE INSTALLED SO AS TO BE RIGID AND TO BE CLAMPED DIRECTLY TO THE PIPE. PROVIDE INSULATION WITH JACKET OVER THE HANGERS.
20. ELECTRICAL WORK IS TO BE PROVIDED BY THE ELECTRICAL CONTRACTOR. (E.C.)
21. SUPPLY SUMP PUMP AND CONTROL PACKAGE TO THE E. C. FOR WIRING. ALARM WIRING TO THE OFFICE WILL BE PROVIDED BY THE E. C.
22. HEAT TRACING SYSTEM TO BE SELF REGULATING, AND TO MAINTAIN 50 DEGREES IN THE PIPE. THE MINIMUM OUTPUT TO BE 8 WATTS PER FOOT FOR A 1 ½" PIPE WITH AN OUTDOOR TEMPERATURE OF 0 DEGREES. SYSTEM TO BE CHROMALOX OR APPROVED EQUAL.
23. PROVIDE SUBMITTALS TO THE ENGINEER PRIOR TO PURCHASE OF MATERIALS AND EQUIPMENT. SUBMITTALS TO BE PROVIDED ARE NOTED BUT NOT LIMITED TO:
    - PIPE AND FITTINGS
    - BALL VALVES AND CHECK VALVES
    - PIPE SUPPORTS AND ATTACHMENTS
    - PIPE INSULATION AND JACKETING MATERIALS
    - HEAT TRACING AND CONTROLS.
    - ELEVATOR SUMP PUMP AND CONTROLS PACKAGE
    - PRESSURE TEST DATA
    - FINAL REDLINES OF THE INSTALLED SYSTEM
    - OPERATION AND MAINTENANCE MANUAL
    - SCHEDULE FOR CONSTRUCTION AND REQUIRED SHUTDOWNS

APPLICABLE CODES

1. BUILDING CODE OF NEW YORK STATE
2. MECHANICAL CODE OF NEW YORK STATE
3. FIRE CODE OF NEW YORK STATE
4. PLUMBING CODE OF NEW YORK STATE
5. ENERGY CONSERVATION CONSTRUCTION CODE OF NEW YORK STATE
6. ACCESSIBLE AND USABLE BUILDING AND FACILITIES-CABO/ANSI A117.1
7. NATIONAL ELECTRIC CODE
8. NFPA 13: STANDARD FOR THE INSTALLATION OF SPRINKLER SYSTEMS

EQUIPMENT DESIGNATIONS

BT	BATH TUB
CO	CLEANOUT
CS	CUP SINK
CV	CONTROL VALVE
DF	DRINKING FOUNTAIN
DPCO	DECK PLATE CLEANOUT
DWH	DOMESTIC WATER HEATER
DWP	DOMESTIC WATER PUMP
EJ	EXPANSION JOINT
ET	EXPANSION TANK
EWC	ELECTRIC WATER COOLER
EWS	EMERGENCY EYEWASH/SHOWER
FI	FILTER
HB	HOSE BIBB
KS	KITCHEN SINK
LAV	LAVATORY
M	METER
MS	MOP SINK
NF	NON-FREEZE HOSE BIB
P	PUMP
OS	OIL SEPARATOR
S	SINK
SA	SHOCK ABSORBER (WATER HAMMER ARRESTOR)
SS	SERVICE SINK
SH	SHOWER
SP	SUMP PUMP
SRV	SAFETY RELIEF VALVE
SWP	SEWAGE PUMP
TK	WATER TANK
UR	URINAL
WC	WATER CLOSET
WCO	WALL CLEANOUT
WS	WATER SOFTENER

NOTE:
SOME ABBREVIATIONS MAY NOT BE USED ON DRAWINGS

ABBREVIATIONS

%	PERCENT
AC	ALTERNATING CURRENT
ADJ	ADJACENT
AFF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
ALT	ALTERNATE
AMB	AMBIENT
AMP	AMPERE (AMP,AMPS)
ANSI	AMERICAN NATIONAL STANDARD INSTITUTE
APPROX	APPROXIMATE (LY)
AVG	AVERAGE
BFP	BACKFLOW PREVENTER
BHP	BRAKE HORSEPOWER
BLDG	BUILDING
BO	BOTTOM OF
BSMT	BASEMENT
BTU	BRITISH THERMAL UNIT
BV	BALANCING VALVE
CAP	CAPACITY
CIP	CAST IRON PIPE
CLG	CEILING
CLR	CLEAR
CO	CLEANOUT or CARBON MONOXIDE
COL	COLUMN
CONN	CONNECTION
CONC	CONCRETE
CONT	CONTINUOUS
CU FT	CUBIC FEET
CV	VALVE FLOW COEFFICIENT
DCDA	DOUBLE CHECK DETECTOR ASSEMBLY
DCV	DETECTOR CHECK VALVE
DCW	DOMESTIC COLD WATER
DEMO	DEMOLISH or DEMOLITION
DHW	DOMESTIC HOT WATER
DIA	DIAMETER
DIP	DUCTILE IRON PIPE
DWH	DOMESTIC WATER HEATER
DWV	DRAIN, WASTE, & VENT
DWG	DRAWING
(E)	EXISTING
ENGR	ENGINEER
EQ	EQUAL
EST	ESTIMATED
ETR	EXISTING TO REMAIN
EWH	ELECTRIC WATER HEATER
EWT	ENTERING WATER TEMPERATURE
EX	EXISTING
EXIST	EXISTING
EXP	EXPANSION
EXT	EXTERIOR
°F	DEGREES FAHRENHEIT
FA	FREE AREA
FIN	FINISHED
FL	FLOOR
FLA	FULL LOAD AMPS
FPM	FEET PER MINUTE
FPS	FEET PER SECOND
FT	FOOT OR FEET
FUT	FUTURE
GA	GAGE OR GAUGE
GAL	GALLONS
GC	GENERAL CONTRACTOR
GPM	GALLONS PER MINUTE
GPD	GALLONS PER DAY
GPH	GALLONS PER HOUR
HD	HEAD
HG	MERCURY
HORIZ	HORIZONTAL
HP	HORSEPOWER
HPC	HIGH PRESSURE CONDENSATE
HPS	HIGH PRESSURE STEAM
HR	HOUR
HVAC	HEATING, VENTILATING, AND AIR CONDITIONING
HZ	FREQUENCY
ID	DIAMETER, INSIDE
IN	INCH
INSUL	INSULATION
INT	INTERIOR
IPS	IRON PIPE SIZE
INV	INVERT
KW	KILOWATT
KWH	KILOWATT HOUR
LBS	POUNDS
LF	LINEAR FEET
LG	LENGTH
LOC	LOCATION
LPC	LOW PRESSURE CONDENSATE
LPS	LOW PRESSURE STEAM
LRA	LOCKED ROTOR AMPS
LWT	LEAVING WATER TEMPERATURE
MATL	MATERIAL
MAX	MAXIMUM
MBH	BTU PER HOUR (THOUSAND)
MECH	MECHANICAL
MFG	MANUFACTURER
MIN	MINIMUM
MISC	MISCELLANEOUS
MOCP	MAXIMUM OVERCURRENT PROTECTION
MPC	MEDIUM PRESSURE CONDENSATE
MPS	MEDIUM PRESSURE STEAM
MTG	MOUNTING
N/A	NOT APPLICABLE
NC	NORMALLY CLOSED
NIC	NOT IN CONTRACT
NO	NORMALLY OPEN
NPT	NATIONAL PIPE TREAD
NRS	NON-RISING STEM
NTS	NOT TO SCALE
OC	ON CENTER
OD	DIAMETER, OUTSIDE
OS&Y	OUTSIDE SCREW AND YOKE
PC	PLUMBING CONTRACTOR
PLBG	PLUMBING
PH	PHASE (ELECTRICAL)
PRESS	PRESSURE
PSF	POUNDS PER SQUARE FOOT
PSI	POUNDS PER SQUARE INCH
PSIG	PSI GUAGE
PRV	PRESSURE REDUCING VALVE
RCVR	RECEIVER
RECIRC	RECIRCULATE
RHW	HOT WATER RE-CIRCULATION
RO	ROUGH OPENING
RPDA	REDUCED-PRESSURE DETECTOR ASSY.
RPM	REVOLUTIONS PER MINUTE
RPZ	REDUCED-PRESSURE ZONE
SCH	STEAM CAPTURE HOOD
SPEC	SPECIFICATION
SPLY	SUPPLY
SQ	SQUARE
SQ FT	SQUARE FOOT (FEET)
SQ IN	SQUARE INCH (INCHES)
STD	STANDARD
SUCT	SUCTION
T'STAT	THERMOSTAT
TBD	TO BE DETERMINED
TC	TEMPERATURE CONTROL CONTRACTOR
TD	TEMPERATURE DIFFERENCE
TEMP	TEMPERATURE
TMV	THERMOSTATIC MIXING VALVE
TO	TOP OF
TYP	TYPICAL
V	VOLT
VAC	VACUUM
VAR	VARIABLE
VEL	VELOCITY
VIF	VERIFY IN FIELD
VOL	VOLUME
W	WASTE
W/	WITH
W/O	WITH OUT
WCO	WALL CLEANOUT
WHA	WATER HAMMER ARRESTER
WM	WATER METER
WPD	WATER PRESSURE DROP
WT	WEIGHT
WWP	WORKING WATER PRESSURE

NOTE:
SOME ABBREVIATIONS MAY NOT BE USED ON DRAWINGS

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Project Number: 2244352

STATE OF NEW YORK · RICHARD J. PASSINO · 071043 · LICENSED PROFESSIONAL ENGINEER

Expiration: September 2026

PROJECT & CLIENT

ELEVATOR MODERNIZATION FOR

CENTERTOWN PARKING GARAGE

101 WEST GRAY STREET
ELMIRA NY

REVISIONS

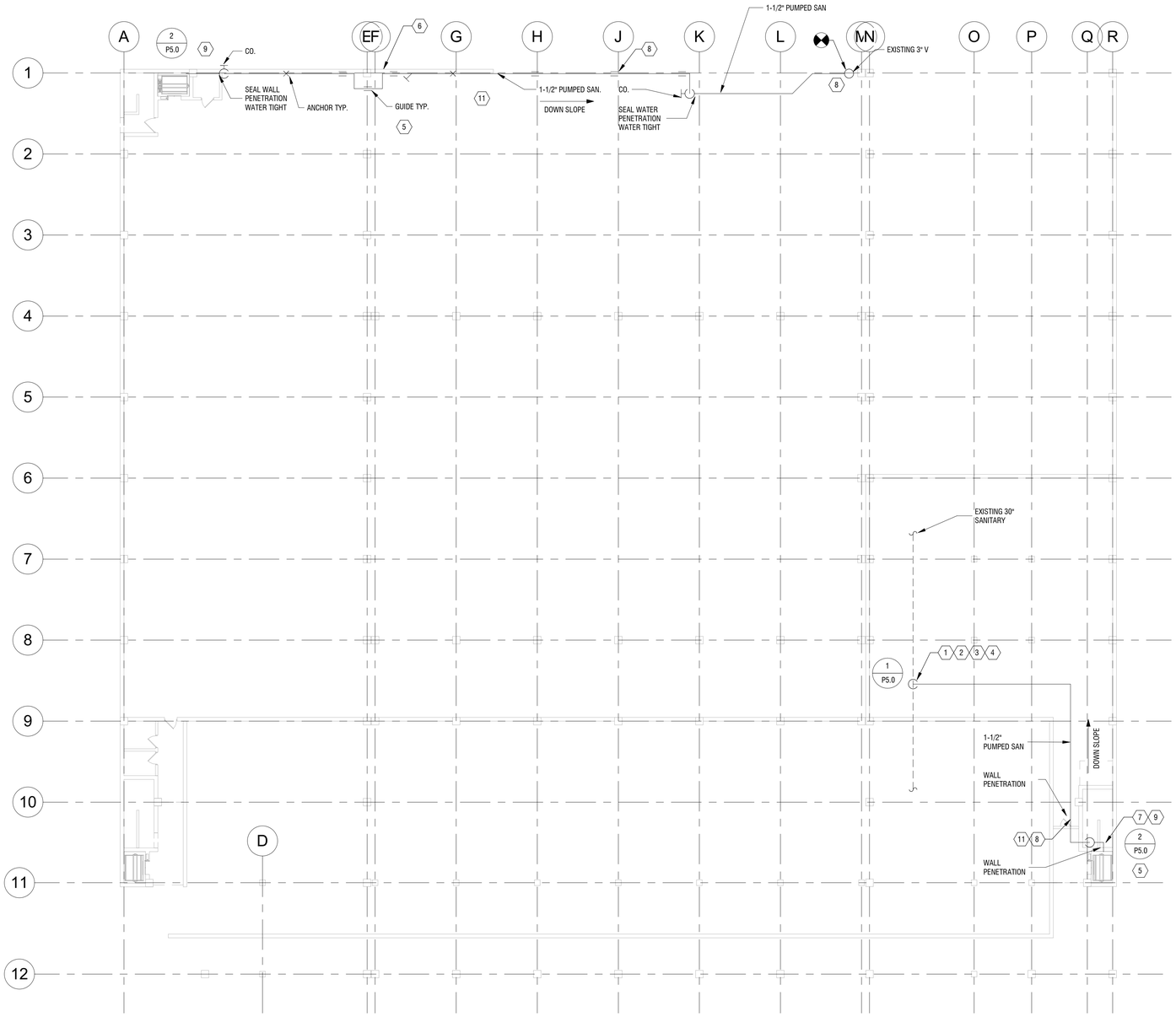
1	REBID	MAY, 2026

DRAWING TITLE

PLUMBING LEGEND SHEET

DATE: NOVEMBER, 2024
DRAWN BY: DMW

JOB NO.: 4062
DWG. NO.: P1.0



1 P2.0 GROUND FLOOR PLUMBING PLAN

1/16" = 1'-0"

0' 8' 16' 32'

KEY NOTES:

1. LOCATE 30" SANITARY WASTE LINE - VERIFY DEPTH PRIOR TO EXCAVATION. VERIFY PIPE IS CONCRETE.
2. SAW CUT FLOOR. EXCAVATE TO TOP OF SANITARY PIPE CONNECT TO SAN AND RISE TO ABOVE FINISHED FLOOR.
3. BACKFILL AND COMPACT IN 8" LIFTS. PROVIDE VAPOR BARRIER BELOW SLAB.
4. REPAIR CONCRETE FLOOR TO MATCH EXISTING.
5. HORIZONTAL EXPANSION LOOP. 3'-0" OFFSET, 4'-0" LONG. ANCHOR PUMPED SAN ON EACH SIDE OF EXPANSION JOINT AND PROVIDE GUIDES.
6. ROUTE PUMPED SAN ABOVE CEILING. VERIFY ROUTE BEFORE RUNNING PIPE.
7. ROUTE PUMPED SAN ON CONSISTENT DOWNWARD SLOPE TO DRAIN. LINE TO BE AS HIGH AS POSSIBLE TO CONCRETE BEAMS.
8. ROUTE THOUGH CHASE BELOW STAIR LANDING.
9. ROUTE PIPE TIGHT TO CEILING.
10. VERIFY IF SUMP IS CAST INTO THE FLOOR OF THE ELEVATOR PIT. NOTIFY ENGINEER IF NO SUMP EXISTS.
11. HEAT TRACE PUMPED SANITARY FROM SUMP PUMP TO HEATED SPACES. FIT INSULATION AROUND HEAT TRACING TO MAINTAIN TIGHT FIT TO PIPE.

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GROUND FLOOR PLUMBING PLAN

DATE	DRAWN BY
NOVEMBER, 2024	DMW

JOB NO.	DWG. NO.
4062	P2.0

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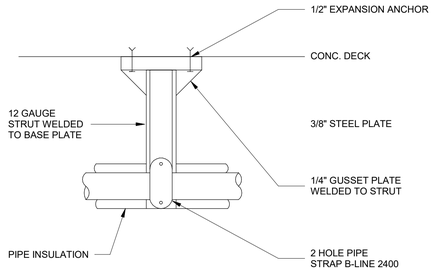
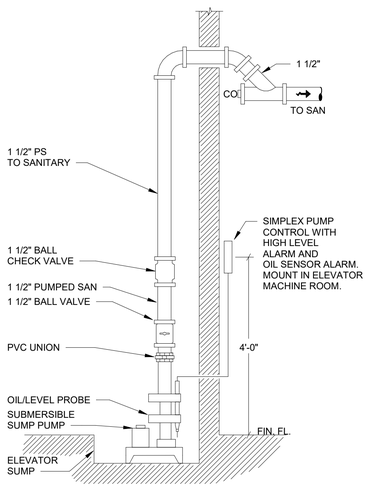
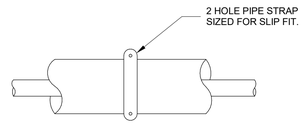


3 P5.0 PIPE ANCHOR
NOT TO SCALE

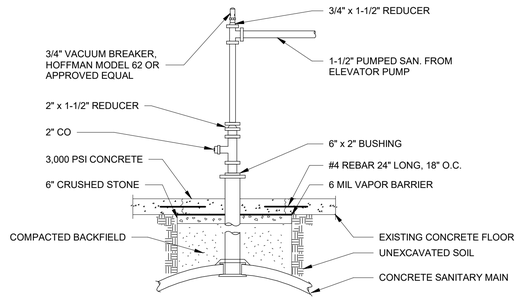


NOTE:
PROVIDE OIL SENSING CAST IRON SUMP PUMP WITH PUMP CONTROL PANEL, OIL SENSING PROBE AND LOCAL ALARM. PUMP TO BE 1/2 HP, 115 VAC, 60 HZ, 50 GPM @ 12 FT. HD, MIN. COELLER, LIBERTS, OR APPROVED EQUAL.

2 P5.0 ELEVATOR SUMP PUMP
NOT TO SCALE



4 P5.0 PIPE SUPPORT DETAIL
NOT TO SCALE



1 P5.0 SANITARY MAIN CONNECTION
NOT TO SCALE

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ELECTRICAL LEGEND

ELECTRICAL GENERAL NOTES

1. FOR EXACT LOCATIONS AND SURFACE FINISH CONDITIONS OF CEILINGS, WALLS, OR FLOORS, REFER TO ARCHITECTURAL DRAWINGS.
2. FOR EXACT LOCATION OF FACILITY EXPANSION JOINTS, FIRE RATED WALLS, AND SMOKE WALLS, REFER TO ARCHITECTURAL DRAWINGS.
3. VERIFY EXACT LOCATION OF CONNECTION POINTS PRIOR TO ROUGH-IN.
4. COORDINATE LOCATIONS OF ALL RECEPTACLES AND LUMINAIRES IN MECHANICAL SPACES WITH HVAC CONTRACTOR PRIOR TO ROUGH-IN TO AVOID CONFLICTS WITH EQUIPMENT AND DUCTWORK.
5. MOUNTING HEIGHTS ARE TO CENTER OF DEVICE OR EQUIPMENT UNLESS NOTED OTHERWISE, EXCEPT FOR PENDANT LIGHTING WHICH ARE TO THE BOTTOM OF THE LUMINAIRE. FOR AREAS WITH DIFFERENT FLOOR LEVELS, HEIGHT IS BASED UPON CLOSEST FLOOR OR LANDING TO DEVICE, EQUIPMENT, OR LUMINAIRE. ELEVATIONS GIVEN ON LEGEND SHEET ARE UNLESS NOTED OTHERWISE ON DRAWINGS.
6. PROVIDE RACEWAY, WIRE AND CABLE, ASSOCIATED FITTINGS AND CONNECTORS, AND COMPLETE CONNECTIONS REQUIRED FOR DESIGNATED BRANCH CIRCUITS FROM DEVICE(S) TO FINAL OVERCURRENT DEVICE AND TO LOCAL CONTROL DEVICE(S) PER SPECIFICATIONS.
7. MINIMUM BRANCH CIRCUIT WIRE SIZE SHALL BE #12 AWG. SIZE BRANCH CIRCUIT CONDUCTORS AS PER NEC AND AS SCHEDULED ON THIS DRAWING BASED ON ACTUAL CIRCUIT DISTANCE. INCLUDE GROUND CONDUCTOR DERATINGS.
8. PULL A SEPARATE NEUTRAL CONDUCTOR FOR ALL BRANCH CIRCUITS REQUIRING A NEUTRAL CONNECTION. DERATE CONDUCTORS PER NEC ACCORDINGLY. MULTIWIRE BRANCH CIRCUITS ARE NOT ACCEPTABLE.
9. PROVIDE GROUNDING PER NEC & TIA 607B. PROVIDE GREEN GROUND CONDUCTOR IN ALL BRANCH AND FEEDER CIRCUITS.
10. DO NOT INSTALL ANY NEW WORK DIRECTLY ABOVE ANY ELECTRICAL PANELS, SWITCHBOARDS, SWITCHGEAR, OR TRANSFORMERS.
11. CIRCUIT NUMBERS SHOWN FOR EQUIPMENT TO BE CONNECTED TO EXISTING PANELBOARD(S) IS SHOWN FOR DESIGN INTENT ONLY AND MAY NOT CORRESPOND TO ACTUAL CIRCUIT BREAKER MOUNTING POSITION IN THE PANEL. UPDATE THE RECORD DRAWINGS & PANELBOARD DIRECTORY WITH THE ACTUAL CIRCUIT NUMBERS USED TO CORRESPOND TO THE PANEL DIRECTORY.
12. CONFIRM ALL LABELS AND ROOM NUMBERS WITH OWNER PRIOR TO FINALIZING LABELING AND PROGRAMMING.
13. COORDINATE FINAL OUTLET LOCATION WITH ALL TRADES AND FURNITURE/MILLWORK PLACEMENT PRIOR TO ROUGH-IN. GENERAL CONTRACTOR SHALL PROVIDE ALL DRILLING AND GROMMETING IN FURNITURE/CASEWORK FOR CORD ACCESS IF REQUIRED.
14. INSTALL DATA OUTLETS 6" ADJACENT TO ASSOCIATED ELECTRICAL OUTLET.
15. SWITCHES SHOWN SIDE BY SIDE OR GANGED SHALL BE INSTALLED UNDER A COMMON COVERPLATE, UNLESS NOTED OTHERWISE.
16. PROVIDE FIRESTOPPING AT ALL PENETRATIONS THROUGH FIRE RATED WALLS, FLOORS, CEILINGS, & ROOFS AS CALLED OUT ON ARCHITECTURAL PLANS. PROVIDE ACOUSTICAL SEALANT AT PENETRATIONS THROUGH ALL NON-FIRE RATED WALLS, FLOORS, & CEILINGS.
17. **PROVIDE CONDUIT EXPANSION JOINTS AT ALL EXPANSION JOINTS AS CALLED OUT ON ARCHITECTURAL PLANS.**

ABBREVIATIONS

A -	AMPERE
AFF -	ABOVE FINISHED FLOOR
AHU -	AIR HANDLING UNIT
AIC -	AMPERE INTERRUPTING CAPACITY
ANSI -	AMERICAN NATIONAL STANDARDS INSTITUTE
ATS -	AUTOMATIC TRANSFER SWITCH
AV -	AUDIO VISUAL
AVG -	AVERAGE
AWG -	AMERICAN WIRE GAUGE
BAS -	BUILDING AUTOMATION SYSTEM
BLDG -	BUILDING
CND -	CONDUIT
CKT -	CIRCUIT
CLG -	CEILING
CO -	COMPANY/CARBON MONOXIDE
DC -	DIRECT CURRENT
DISC -	DISCONNECT
DIV -	DIVISION
DWG -	DRAWING
EC -	ELECTRICAL CONTRACTOR
EF -	EXHAUST FAN
ELEC -	ELECTRIC
ELEV -	ELEVATOR
EQUIP -	EQUIPMENT
EWC -	ELECTRIC WATER COOLER
FA -	FIRE ALARM
FAAP -	FIRE ALARM ANNUNCIATOR PANEL
FACP -	FIRE ALARM CONTROL PANEL
GC -	GENERAL CONTRACTOR
GFCI -	GROUND FAULT CIRCUIT INTERRUPTING
GFI -	GROUND FAULT INTERRUPTING
G -	GROUND
HOA -	HAND - OFF - AUTO
HP -	HORSEPOWER
J-BOX -	JUNCTION BOX
kAIC -	KILOAMPERE INTERRUPTING CURRENT
kV -	KILOVOLT
kVA -	KILOVOLT AMPERE
LED -	LIGHT EMITTING DIODE
LTG -	LIGHTING
LV -	LOW VOLTAGE
MAX -	MAXIMUM
MC -	MECHANICAL CONTRACTOR
MCA -	MINIMUM CIRCUIT AMPERES
MCB -	MAIN CIRCUIT BREAKER
MCC -	MOTOR CONTROL CENTER
MDP -	MAIN DISTRIBUTION PANELBOARD
MECH -	MECHANICAL
MIC -	MICROPHONE
MIN -	MINIMUM
MOCP -	MAXIMUM OVERCURRENT PROTECTION
MTD -	MOUNTED
NEC -	NATIONAL ELECTRICAL CODE
NEMA -	NATIONAL ELECTRICAL MANUFACTURERS ASSOCIATION
NFPA -	NATIONAL FIRE PROTECTION ASSOCIATION
NIC -	NOT IN CONTRACT
NL -	NIGHT LIGHT
NTS -	NOT TO SCALE
P -	POLE
PA -	PUBLIC ADDRESS
PNL -	PANEL
POE -	POWER OVER ETHERNET
PRI -	PRIMARY
PTZ -	PAN TILT ZOOM
PVC -	POLYVINYL CHLORIDE
RCP -	REFLECTED CEILING PLANS
REC -	RECEPTACLE
REF -	REFRIGERATOR
RM -	ROOM
SEC -	SECONDARY
SPEC -	SPECIFICATION
SPKR -	SPEAKER
TV -	TELEVISION
TYP -	TYPICAL
UNO -	UNLESS NOTED OTHERWISE
UPS -	UNINTERRUPTIBLE POWER SUPPLY
V -	VOLT
VA -	VOLT-AMPERE
VAC -	VOLTS ALTERNATING CURRENT
VDC -	VOLTS DIRECT CURRENT
VFD -	VARIABLE FREQUENCY DRIVE
VEND -	VENDING MACHINE
W -	WATT
WAP -	WIRELESS ACCESS POINT
WP -	WEATHERPROOF
WR -	WEATHER RESISTANT
XFMR -	TRANSFORMER

ELECTRICAL DEMOLITION GENERAL NOTES

1. REMOVE ALL ELECTRICAL EQUIPMENT ON OR IN EXISTING WALLS, CEILINGS AND PARTITIONS WHICH ARE TO BE DEMOLISHED. WHERE EQUIPMENT IS SCHEDULED TO BE REMOVED, ABANDON CONCEALED RACEWAY AND REMOVE CONDUCTORS BACK TO SOURCE OR LAST SCHEDULED DEVICE TO REMAIN. REMOVE EXPOSED RACEWAY AND CONDUCTORS BACK TO POWER SOURCE OR LAST DEVICE SCHEDULED TO REMAIN IN ALL OTHER AREAS.
2. WHERE EXISTING WALLS ARE TO REMAIN, REMOVE ALL EXPOSED RACEWAYS, SURFACE AND RECESSED OUTLET BOXES, ETC. WHICH ARE NOT TO BE REUSED. WHERE NEW CONDUITS AND OUTLETS ARE TO BE ADDED TO EXISTING WALLS IN FINISHED ROOMS, THEY SHALL BE CONCEALED BY CUTTING AND PATCHING THE WALLS UNLESS OTHERWISE NOTED.
3. UTILIZE EXISTING OUTLET BOXES AND RACEWAY SYSTEMS WHEREVER PRACTICAL IN RENOVATION AREAS. WHERE SUCH EXISTING OUTLET BOXES ARE USED, INSTALL NEW WIRING DEVICES, COVERPLATES, AND WIRING. PROVIDE SPECIAL COVERPLATES TO SUIT FIELD CONDITIONS.
4. REARRANGE EXISTING CONDUITS AND WIRING TO ACCOMMODATE NEW CIRCUIT ARRANGEMENTS INDICATED AND TO MAINTAIN CONTINUITY OF EXISTING CIRCUITS FEEDING DEVICES THAT ARE TO REMAIN.
5. CONTRACTOR SHALL BE RESPONSIBLE TO REMOVE AND REINSTALL EXISTING ELECTRICAL EQUIPMENT TO ACCOMMODATE THE WORK OF OR DISTURBED BY ALL TRADES.
6. STORE REMOVED ELECTRICAL EQUIPMENT SUCH AS LUMINAIRES, POWER AND COMMUNICATION DEVICES, DISTRIBUTION EQUIPMENT, CONTROLLERS, ETC. ON JOB SITE FOR REUSE UNTIL SUBSTANTIAL COMPLETION OR PROJECT CLOSEOUT. PROVIDE OWNER RIGHT OF FIRST REFUSAL OF ELECTRICAL EQUIPMENT OTHERWISE REMOVE THOSE FROM SITE AT CONTRACTORS EXPENSE IN ACCORDANCE WITH APPLICABLE LAWS AND REGULATIONS THAT THE OWNER DOES NOT WISH TO SALVAGE.
7. EXISTING DEVICE LOCATIONS WERE IDENTIFIED AS COMPLETELY AS POSSIBLE BY A SITE SURVEY AND BY RECORD DOCUMENTS AS AVAILABLE. BE RESPONSIBLE FOR PROPER DEMOLITION AND REWORK OF DEVICES NOT SHOWN ON DRAWINGS BUT NECESSARY FOR PROJECT RENOVATIONS TO CONFORM WITH INTENT OF DOCUMENTS. VISIT THE SITE TO DETERMINE THE EXACT EXTENT OF ELECTRICAL DEMOLITION WORK REQUIRED TO COMPLETE THE NEW CONSTRUCTION. CONTRACTOR SHALL PROVIDE IN BASE BID A NOMINAL AMOUNT OF UNKNOWN BRANCH CIRCUITS, FIXTURES, DEVICES, AND SYSTEMS WIRING BEING REMOVED OR RELOCATED FOR NEW WORK.
8. WHERE DEMOLITION OF DEVICE OR EQUIPMENT AND REMOVAL OF CONDUIT OR OTHER ACCESSORY LEAVES OPENINGS IN THE FLOORS, WALLS, OR CEILINGS, SAME SHALL BE PATCHED AND PAINTED TO MATCH EXISTING ADJACENT FINISH. ALL OPENINGS IN FLOORS SHALL BE PINNED WITH REBAR.
9. REFER TO DEMOLITION DRAWINGS & NOTES OF ALL CONTRACTS OR TRADES FOR COORDINATION.
10. IN AREAS OF DEMOLITION WHERE THE REMOVAL OF ELECTRICAL EQUIPMENT INTERFERES WITH THE NORMAL BUILDING OPERATIONS AND SYSTEMS, CONSULT WITH THE OWNER PRIOR TO PERFORMING ANY DEMOLITION.
11. WHERE UNFORESEEN CONDITIONS CONFLICT WITH CONTRACT DOCUMENTS, SUBMIT AN RFI PRIOR TO PROCEEDING WITH ANY WORK.
12. WHERE DEVICES ARE SCHEDULED FOR RELOCATION, DISCONNECT AND REMOVE EXISTING DEVICE AND REMOVE ASSOCIATED WIRING. RELOCATE DEVICE AS SHOWN, EXTEND WIRING AS REQUIRED, AND MATCH EXISTING.
13. WHERE REMOVALS AFFECT EXISTING CIRCUITS SCHEDULED TO REMAIN, MAINTAIN CONTINUITY OF POWER TO THESE CIRCUITS AND EXTEND WIRING AS NEEDED.
14. WHERE ANY EMPTY BACKBOXES OR EMPTY JUNCTION BOXES REMAIN DUE TO ELECTRICAL DEMOLITION, PROVIDE COVERPLATE(S) OVER EXISTING BOX(ES).
15. WHERE EQUIPMENT CONNECTIONS ARE SHOWN, REMOVE ELECTRICAL CONNECTION, CONDUIT AND WIRE BACK TO POWER SOURCE. DISCONNECT AND REMOVE ASSOCIATED CONTROLLER SERVING EQUIPMENT AND ASSOCIATED CONTROL WIRING.
16. DISCONNECT AND REMOVE EXISTING ELECTRIC WORK NOT NECESSARY FOR EXISTING OR NEW INSTALLATION, BUT INTERFERING WITH NEW CONSTRUCTION.
17. DISCONNECT, REMOVE, RELOCATE, AND RECONNECT ANY AND ALL EXISTING ELECTRIC WORK REQUIRED TO REMAIN, BUT INTERFERING WITH NEW CONSTRUCTION.
18. WHERE DEMOLITION NOTES SCHEDULE EXISTING WIRING DEVICES, LIGHTING FIXTURES, SYSTEMS DEVICES, EQUIPMENT CONNECTIONS, ETC. TO BE "DISCONNECTED AND REMOVED IN THE ENTIRETY", THE CONTRACTOR SHALL DISCONNECT AND REMOVE THE EXISTING LIGHTING FIXTURE, WIRING DEVICES, COVERPLATES, BRANCH CIRCUIT WIRING, CONDUIT OR RACEWAY, OUTLET AND/OR SPLICE BOX(ES) ETC. BACK TO EITHER LAST DEVICE SCHEDULED TO REMAIN, OR BACK TO POWER SOURCE.
19. PROPERLY DISPOSE OF ALL PCB CONTAINING FLUORESCENT BALLASTS MANUFACTURED PRIOR TO 1980 ACCORDING TO STATE AND FEDERAL REGULATIONS.
20. IF ADDITIONAL SUSPECT ASBESTOS-CONTAINING MATERIALS ARE DISCOVERED DURING THE COURSE OF THE WORK, THE CONTRACTOR SHALL IMMEDIATELY STOP WORK AND NOTIFY THE OWNER AND ARCHITECT IMMEDIATELY. THE CONTRACTOR SHALL COOPERATE WITH THE OWNER AND ARCHITECT TO WITH REGARD TO CONDUCTING ADDITIONAL BULK SAMPLING AND ABATEMENT AT THE OWNER'S EXPENSE.
21. PROVIDE ALL REQUIRED CUTTING AND PATCHING. CUT AND DRILL FROM BOTH SIDES OF WALLS AND/OR FLOORS TO ELIMINATE SPLAYING. PATCH ALL CUT OR ABANDONED HOLES LEFT BY REMOVALS OF EQUIPMENT OR FIXTURES. PATCH ADJACENT EXISTING WORK DISTURBED BY INSTALLATION OF NEW WORK INCLUDING INSULATION, WALLS AND WALL COVERING, CEILING AND FLOOR COVERING, AND OTHER FINISHED SURFACES. PATCH OPENINGS AND DAMAGED AREAS EQUAL TO EXISTING SURFACE FINISH. CUT OPENINGS IN PREFABRICATED CONSTRUCTION UNITS IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS. INCLUDE PAINTING FOR PATCHWORK WITH COLOR TO MATCH ADJACENT SURFACES. WHERE COLOR CANNOT BE ADEQUATELY MATCHED, PAINT ENTIRE SURFACE. PROVIDE ONE (1) COAT OF PRIMER AND TWO (2) FINISH COATS.

DISCONNECT AND REMOVE RECEPTACLES, LIGHTING, & ABANDONED DEVICES & RACEWAY. UNLESS NOTED OTHERWISE, LOW VOLTAGE CONTROL WIRING FOR PROCESS EQUIPMENT IS EXCLUDED FROM DEMOLITION SCOPE. 120V OR HIGHER CONNECTIONS TO PROCESS EQUIPMENT IS INCLUDED IN SCOPE. PREPARE EQUIPMENT FOR RECONNECTION WHERE SHOWN.

DEVICE SUBSCRIPTS

II	ROMAN NUMERAL INDICATES QUANTITY OF GANGED DEVICES UNDER COMMON FACEPLATE
+xx	HEIGHT OF DEVICE ABOVE FINISHED FLOOR (IN INCHES)
a	LOWER CASE LETTER(S) INDICATES SWITCH CONTROL ARRANGEMENT
5	NUMERAL INDICATES BRANCH CIRCUIT NUMBER (POWER & LIGHTING)/CANDELA RATING (FIRE ALARM DEVICES)
C	INSTALL ABOVE COUNTER, AT 40" AFF. COORDINATE WITH GC
D	DIMMER SWITCH (LIGHTING CONTROL)
ETR	EXISTING TO REMAIN
EWC	RECEPTACLE FOR WATER COOLER. COORDINATE EXACT LOCATION WITH GC & PC PRIOR TO ROUGH-IN
GFCI	GROUND FAULT CIRCUIT INTERRUPTING RECEPTACLE
GFI	GROUND FAULT CIRCUIT INTERRUPTING BREAKER PROTECTED
K	KEY OPERATED
LV	LOW VOLTAGE
MCW	RECEPTACLE FOR MICROWAVE , INSTALL IN UPPER CABINET, COORDINATE EXACT LOCATION WITH GC PRIOR TO ROUGH-IN
NL	NIGHT LIGHT LUMINAIRE (UNSWITCHED / INTEGRAL NIGHT LIGHT STYLE RECEPTACLE
O	OCCUPANCY SENSOR (AUTOMATIC 'ON' LIGHTING SENSOR SWITCH)
P	PILOT STYLE TOGGLE SWITCH (PILOT LIGHT 'ON' WHILE DEVICE IS ON OR POWERED)
REF	RECEPTACLE FOR REFRIGERATOR , INSTALL 44" AFF
TR	TAMPER RESISTANT
TV	FOR TELEVISION/MONITOR, INSTALL 72" AFF
UC	INSTALL UNDER COUNTER. COORDINATE EXACT LOCATION WITH GC PRIOR TO ROUGH-IN
USB	RECEPTACLE WITH USB CHARGING PORTS
VEND	RECEPTACLE FOR VENDING MACHINE, INSTALL 44" AFF
V	VACANCY SENSOR (MANUAL 'ON' LIGHTING SENSOR SWITCH)
WG	WIRE GUARD
WP	WEATHERPROOF DEVICE / WEATHERPROOF WHILE-IN-USE EXTRA DUTY COVER & WEATHER RESISTANT RECEPTACLE
WR	WEATHER RESISTANT DEVICE/WEATHER RESISTANT RECEPTACLE

GENERAL LINEWORK DESCRIPTIONS & DRAWINGS NOTES

- NEW WORK
- EXISTING WORK / FUTURE PROVISIONS / NOT IN CONTRACT WORK TO BE REMOVED (DEMO PLANS) - DEVICE AND ALL ASSOCIATED ELECTRICAL WORK SHALL BE REMOVED BACK TO THE SOURCE, UNLESS NOTED OTHERWISE / UNDERFLOOR CONDUIT (NEW PLANS)
- WIRE AND / OR CONDUIT RUN CONTINUED ON REFERENCED DETAIL
- MATCH LINE REFERENCING CONTINUATION ON OTHER DRAWING
- CALLOUT BOUNDARY - DETAIL AND / OR SECTION REFERENCE / SCOPE OF WORK
- BRANCH CIRCUIT BOUNDARY
- (#) DRAWING KEYED NOTES
- SYMBOL WITH TAIL INDICATES WALL INSTALLATION, HEIGHT AS INDICATED
- INDICATES MULTIPLE DEVICES OF DIFFERENT TYPES INSTALLED UNDER COMMON COVERPLATE AT ONE LOCATION (DEVICES SHALL BE INSTALLED UNDER A COMMON COVERPLATE)

PANELBOARDS

DOOR STYLE (DESIGNATES VOLTAGE):

- 208/120V OR 240V SYSTEM
- 480/277V SYSTEM

EQUIPMENT CONNECTIONS

- SINGLE PHASE MOTOR/PUMP CONNECTION, REFER TO EQUIPMENT CONNECTION SCHEDULE
- THREE PHASE MOTOR/PUMP CONNECTION, REFER TO EQUIPMENT CONNECTION SCHEDULE
- SINGLE POINT EQUIPMENT CONNECTION, REFER TO EQUIPMENT CONNECTION SCHEDULE

RACEWAY, BOXES, & BUSWAY

- J — JUNCTION BOX, HEIGHT AS INDICATED

ELECTRICAL EQUIPMENT

- DISCONNECT SWITCH, TYPE PER EQUIPMENT CONNECTION SCHEDULE **[UNFUSED DISCONNECT SWITCH]**, SURFACE MOUNTED 48" AFF
- FUSED DISCONNECT SWITCH, SURFACE MOUNTED 48" AFF

ELECTRICAL DEVICES

GENERAL ELECTRICAL DEVICE NOTATION:

SOURCE PANELBOARD (IF OTHER THAN NOTED ON SHEET/CIRCUIT BOUNDARY) — 15 / 1LNL1 — +30" / PI

- CIRCUIT #
- INSTALLATION HEIGHT TO CENTER OF DEVICE IN INCHES (IF OTHER THAN SPECIFIED ON LEGEND)
- SUBSCRIPT (IF APPLICABLE)

- NEMA 5-20R DUPLEX RECEPTACLE, 18" AFF
- NEMA 5-20R GFCI DUPLEX RECEPTACLE, 18" AFF
- NEMA 5-20R QUADPLEX (DOUBLE DUPLEX) RECEPTACLE, 18" AFF
- NEMA 5-20R GFCI QUADPLEX (GFCI REC W/ DUPLEX ON LOAD SIDE UNDER COMMON COVERPLATE) RECEPTACLE, 18" AFF

BRANCH CIRCUIT CONDUCTOR SIZING

CIRCUIT NOTATION:

11,13 / 1LNL1

- CIRCUIT NUMBER(S)
- SOURCE PANELBOARD (IF OTHER THAN NOTED ON SHEET/CIRCUIT BOUNDARY)

PROVIDE MINIMUM WIRE SIZE AS FOLLOWED UNLESS NOTED OTHERWISE:
20A CB - #12 AWG
30A CB - #10 AWG
40A CB - #8 AWG
50A CB - #6 AWG
INCREASE SIZE OF CONDUCTOR FOR DISTANCE AS SHOWN BELOW IN 20A BRANCH CIRCUIT CONDUCTOR SIZING SCHEDULE.

20A BRANCH CIRCUIT CONDUCTOR SIZING SCHEDULE:

CONDUCTOR SIZE (AWG)	#12	#10	#8	#6	#4
MAXIMUM BRANCH CIRCUIT LENGTH AT 120V (FEET)	90	140	225	355	565
MAXIMUM BRANCH CIRCUIT LENGTH AT 277V (FEET)	205	325	520	825	1310

NOTES:

1. INCREASE ALL BRANCH CIRCUIT CONDUCTORS AS INDICATED BASED ON LENGTH OF CIRCUIT, INCLUDING EQUIPMENT GROUNDING CONDUCTOR.
2. TRANSITION FROM LARGER CONDUCTOR SIZE TO #12 AWG FOR FINAL TERMINATION TO OUTLET DEVICE. PROVIDE JUNCTION BOX WITHIN 10' OF OUTLET AND EXTEND #12 AWG CONDUCTORS TO OUTLET.
3. LENGTHS ARE FROM OVERCURRENT PROTECTIVE DEVICE, ALONG CIRCUIT ROUTING, TO CENTER OF EQUIPMENT LOAD.
4. SCHEDULE ASSUMES 12A LOAD, FOR LOADS HIGHER THAN 12A, INCREASE CONDUCTOR SIZE.

FIRE ALARM, GAS DETECTION, & MASS NOTIFICATION DEVICES

- HEAT DETECTOR, COMBINATION RATE OF RISE/FIXED 135° F, CEILING MOUNT ("R" INDICATES RATE OF RISE TEMPERATURE SENSOR, "F" INDICATES FIXED TEMPERATURE SENSOR, "R/F" INDICATES COMBINATION RATE OF RISE & FIXED TEMPERATURE SENSOR)
- SMOKE DETECTOR, CEILING MOUNTED
- FIRE ALARM STROBE LIGHT, WALL MOUNTED, MIN 80"/ MAX 96" AFF (# INDICATES CANDELA RATING)
- FIRE ALARM HORN/STROBE**[EMERGENCY VOICE/ALARM SPEAKER & STROBE]**, 90 dB, WALL MOUNTED, MIN 80"/ MAX 96" AFF (# INDICATES CANDELA RATING)
- FIRE ALARM MANUAL PULL STATION, 44" AFF UNLESS NOTED OTHERWISE
- SYSTEM CABINET; FIRE ALARM CONTROL PANEL (FACP), FIRE ALARM ANNUNCIATOR PANEL (FAAP), FIRE ALARM GRAPHIC PANEL (FAGP), FIRE ALARM TERMINATION CABINET (FATC), NOTIFICATION APPLIANCE CIRCUIT PANEL (NAC).

LIGHTING CONTROL DEVICES

NOTE: LIGHTING CONTROL DEVICES SHOW FUNCTIONAL REQUIREMENTS, NOT ALL DEVICES NEEDED FOR A FULLY FUNCTIONING SYSTEM. DEPENDING ON CONFIGURATION AND MANUFACTURER, DEVICES SUCH AS POWER PACKS, RELAYS, SINGLE/DOUBLE/TRIPLE OUTPUT ROOM CONTROLLERS MAY BE NECESSARY. REFER TO DETAILS & SPECIFICATIONS.

- $ — SINGLE POLE TOGGLE SWITCH, 44" AFF

LIGHTING

GENERAL LUMINAIRE NOTATION:

SOURCE PANELBOARD(IF OTHER THAN NOTED ON SHEET/CIRCUIT BOUNDARY) — 15 / 1LNL1 — a / LD1

- CIRCUIT #
- SWITCHLEG CONTROL ARRANGEMENT
- LUMINAIRE TYPE - REFER TO LUMINAIRE SCHEDULE

- PATTERN INDICATES LUMINAIRE CONNECTED TO UNSWITCHED LIGHTING CIRCUIT
- GEOMETRIC SHAPE LUMINAIRE, RECESSED OR SURFACE MOUNTED PER LUMINAIRE SCHEDULE
- ILLUMINATED EXIT SIGN - SINGLE/DOUBLE FACE AS SHOWN - DIRECTION OF ARROWS AS INDICATED - CEILING, SURFACE WALL, OR PERPENDICULAR WALL AS SHOWN
- LIGHTING TRACK WITH TRACK MOUNTED LUMINARIES
- SELF CONTAINED BATTERY LIGHTING UNIT

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STATE OF NEW YORK — RANDY D. HEARD — 077425 — LICENSED PROFESSIONAL ENGINEER

EXP: 12/31/2026

PROJECT & CLIENT

ELEVATOR MODERNIZATION FOR

CENTERTOWN PARKING GARAGE

101 WEST GRAY STREET
ELMIRA NY

REVISIONS

DRAWING TITLE

ELECTRICAL NOTES, SYMBOL LEGEND, & ABBREVIATIONS

DATE: NOVEMBER, 2024
DRAWN BY: JMG

JOB NO.: 4062
DWG. NO.: E1.0

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EXISTING WORK

A. PRIOR TO CONSTRUCTION & INSTALLATION, CONTRACTOR TO VERIFY EXISTING CONDITIONS AND NOTIFY ARCHITECT/ENGINEER OF CONFLICTS OR CONDITIONS WHICH INTERFERE WITH INSTALLATION AS SET FORTH IN CONTRACT DOCUMENTS.
B. CONTRACTOR RESPONSIBLE FOR ALL NEW FLOOR OPENINGS, EXCAVATIONS, AND PENETRATIONS,UNLESS SPECIFICALLY NOTED. UNLESS SPECIFICALLY NOTED, UPON COMPLETION, ALL PENETRATIONS TO BE SEALED TO MAINTAIN FIRE RATING AS SPECIFIED ON ARCHITECTURAL DRAWINGS.
C. ALL CUTTING AND PATCHING SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR, UNLESS CLEARLY INDICATED AS PART OF ANOTHER PRIME CONTRACT.
D. COORDINATE ANY NEW ROOF PENETRATIONS WITH THE OTHER TRADES.
E. REMOVE, RELOCATE, AND EXTEND EXISTING INSTALLATIONS TO ACCOMMODATE NEW CONSTRUCTION.
F. REPAIR ADJACENT CONSTRUCTION AND FINISHES DAMAGED DURING DEMOLITION AND EXTENSION WORK.
G. MAINTAIN ACCESS TO EXISTING BOXES AND OTHER INSTALLATIONS REMAINING ACTIVE AND REQUIRING ACCESS. MODIFY INSTALLATION OR PROVIDE ACCESS PANEL.
H. EXTEND EXISTING RACEWAY AND BOX INSTALLATIONS USING MATERIALS AND METHODS COMPATIBLE WITH EXISTING ELECTRICAL INSTALLATIONS, OR AS SPECIFIED.
I. CLEAN AND REPAIR EXISTING COMPONENTS TO REMAIN OR TO BE REINSTALLED.
J. PROVIDE ACCESS TO EXISTING WIRING CONNECTIONS REMAINING ACTIVE AND REQUIRING ACCESS. MODIFY INSTALLATION OR INSTALL ACCESS PANEL.
K. EXTEND EXISTING CIRCUITS USING MATERIALS AND METHODS COMPATIBLE WITH EXISTING ELECTRICAL INSTALLATIONS, OR AS SPECIFIED.
L. RING OUT CIRCUITS IN EXISTING PANEL AFFECTED BY THE WORK. WHERE ADDITIONAL CIRCUITS ARE NEEDED, REUSE CIRCUITS AVAILABLE FOR REUSE. INSTALL NEW BREAKERS.
M. TAG UNUSED CIRCUITS AS SPARE AND SWITCH BREAKER TO THE "OFF" POSITION.
N. WHERE EXISTING CIRCUITS ARE INDICATED TO BE REUSED, USE SENSING MEASURING DEVICES TO VERIFY CIRCUITS FEEDING PROJECT AREA OR ARE NOT IN USE.
O. PROVIDE NEW UPDATED DIRECTORIES WHERE MORE THAN THREE CIRCUITS HAVE BEEN MODIFIED OR REWIRED.
P. IDENTIFY SALVAGE ITEMS IN COOPERATION WITH OWNER. REMOVE AND PROTECT ITEMS TO BE SALVAGED AND TURN OVER TO OWNER.
Q. CAREFULLY REMOVE EQUIPMENT, MATERIALS, OR FIXTURES WHICH ARE TO BE REUSED.

MINOR ELECTRICAL DEMOLITION

A. DEMOLITION DRAWINGS ARE BASED ON CASUAL FIELD OBSERVATION AND EXISTING RECORD DOCUMENTS. REPORT DISCREPANCIES TO ARCHITECT/ENGINEER BEFORE DISTURBING EXISTING INSTALLATION.
B. CEASE OPERATIONS IMMEDIATELY WHEN STRUCTURE APPEARS TO BE IN DANGER AND NOTIFY ARCHITECT/ENGINEER. DO NOT RESUME OPERATIONS UNTIL DIRECTED.
C. VERIFY WIRING AND EQUIPMENT INDICATED TO BE DEMOLISHED SERVE ONLY ABANDONED FACILITIES.
D. PROVIDE TEMPORARY EGRESS SIGNAGE AND EMERGENCY LIGHTING.
E. DISCONNECT ELECTRICAL SYSTEMS IN WALLS, FLOORS, AND CEILINGS SCHEDULED FOR REMOVAL. REMOVE CONDUIT, WIRE, BOXES, AND FASTENING DEVICES TO AVOID ANY INTERFERENCE WITH NEW INSTALLATION.
F. INSTALL TEMPORARY WIRING AND CONNECTIONS TO MAINTAIN EXISTING SYSTEMS IN SERVICE DURING CONSTRUCTION.
G. REMOVE EXPOSED ABANDONED WIRE, CABLE, CONDUIT, GROUNDING AND BONDING COMPONENTS, FASTENERS AND SUPPORTS, AND ELECTRICAL IDENTIFICATION COMPONENTS, INCLUDING ABANDONED COMPONENTS ABOVE ACCESSIBLE CEILING FINISHES. CUT EMBEDDED CONDUITS AND SUPPORT ELEMENTS FLUSH WITH WALLS AND FLOORS. PATCH SURFACES DAMAGED BY REMOVAL OF EXISTING COMPONENTS.
H. DISCONNECT ABANDONED CIRCUITS AND OUTLETS AND REMOVE ABANDONED RACEWAY, OUTLETS, BOXES, WIRE, AND CABLE INCLUDING ABOVE ACCESSIBLE CEILING FINISHES. CUT RACEWAY FLUSH WITH WALLS AND FLOORS, AND PATCH SURFACES. REMOVE CONCEALED ABANDONED RACEWAY TO ITS SOURCE.
I. RECONNECT EQUIPMENT BEING DISTURBED BY RENOVATION WORK AND REQUIRED FOR CONTINUED SERVICE TO NEAREST AVAILABLE PANEL. REMOVE, RELOCATE, AND EXTEND EXISTING INSTALLATIONS TO ACCOMMODATE NEW CONSTRUCTION.
J. REPAIR ADJACENT CONSTRUCTION AND FINISHES DAMAGED DURING DEMOLITION AND EXTENSION WORK.
K. CLEAN AND REPAIR EXISTING EQUIPMENT TO REMAIN (AFFECTED BY THE SCOPE OF THE PROJECT) OR TO BE REINSTALLED.
L. PROTECT AND RETAIN POWER TO EXISTING ACTIVE EQUIPMENT REMAINING.
M. CAP ABANDONED EMPTY CONDUIT AT BOTH ENDS AND MARK AS SPARE.

RACEWAY AND BOXES

A. PROVIDE RACEWAY AND BOXES LOCATED AS INDICATED, AND AT OTHER LOCATIONS REQUIRED FOR SPLICES, TAPS, WIRE PULLING, EQUIPMENT CONNECTIONS, AND COMPLIANCE WITH REGULATORY REQUIREMENTS. RACEWAY AND BOXES ARE SHOWN IN APPROXIMATE LOCATIONS UNLESS DIMENSIONED. PROVIDE RACEWAY TO COMPLETE WIRING SYSTEM.
B. UNDERGROUND MORE THAN 5 FEET OUTSIDE FOUNDATION WALL: PROVIDE SCHEDULE 80 PVC. PROVIDE CAST METAL BOXES OR NONMETALLIC HANDHOLES WHERE REQUIRED.
C. UNDERGROUND WITHIN 5 FEET FROM FOUNDATION WALL: PROVIDE RIGID STEEL CONDUIT OR THICKWALL NONMETALLIC CONDUIT (SCHEDULE 80 PVC). PROVIDE CAST METAL OR NONMETALLIC BOXES.
D. IN OR UNDER SLAB ON GRADE: PROVIDE THICK WALL NONMETALLIC CONDUIT. PROVIDE CAST OR NONMETALLIC METAL BOXES.
E. OUTDOOR LOCATIONS, ABOVE GRADE: PROVIDE RIGID STEEL CONDUIT. PROVIDE CAST METAL OR NONMETALLIC OUTLET, PULL, AND JUNCTION BOXES.
F. IN SLAB ABOVE GRADE: PROVIDE THICKWALL NONMETALLIC CONDUIT. PROVIDE CAST NONMETALLIC BOXES.
G. WET AND DAMP LOCATIONS: PROVIDE THICKWALL NONMETALLIC CONDUIT. PROVIDE CAST METAL OR NONMETALLIC OUTLET, JUNCTION, AND PULL BOXES. PROVIDE FLUSH MOUNTING OUTLET BOX IN FINISHED AREAS.
H. CONCEALED DRY LOCATIONS: PROVIDE ELECTRICAL METALLIC TUBING. PROVIDE SHEET-METAL BOXES. PROVIDE FLUSH MOUNTING OUTLET BOX IN FINISHED AREAS. PROVIDE HINGED ENCLOSURE FOR LARGE PULL BOXES.
I. MINIMUM RACEWAY SIZE: 3/4 INCH UNLESS OTHERWISE SPECIFIED.
J. ARRANGE RACEWAY AND BOXES TO MAINTAIN HEADROOM AND PRESENT NEAT APPEARANCE. GROUP RELATED RACEWAY; SUPPORT USING CONDUIT RACK; PROVIDE SPACE ON EACH FOR 25 PERCENT ADDITIONAL RACEWAYS.
K. RACEWAY ROUTING IS SHOWN IN APPROXIMATE LOCATIONS UNLESS DIMENSIONED. ROUTE TO COMPLETE WIRING SYSTEM.
L. DO NOT SUPPORT RACEWAY WITH WIRE, PERFORATED PIPE STRAPS, CEILING SUPPORT WIRES OR OTHER PIPING SYSTEMS.
M. ROUTE EXPOSED & ABOVE ACCESSIBLE CEILINGS RACEWAY PARALLEL AND PERPENDICULAR TO WALLS.
N. DO NOT CROSS CONDUITS IN SLAB.
O. INSTALL NO MORE THAN EQUIVALENT OF THREE 90 DEGREE BENDS BETWEEN BOXES. INSTALL CONDUIT BODIES TO MAKE SHARP CHANGES IN DIRECTION, AS AROUND BEAMS. INSTALL FACTORY ELBOWS FOR BENDS IN METAL CONDUIT LARGER THAN 2 INCH SIZE.
P. AVOID MOISTURE TRAPS; INSTALL JUNCTION BOX WITH DRAIN FITTING AT LOW POINTS IN CONDUIT SYSTEM.
Q. INSTALL FITTINGS TO ACCOMMODATE EXPANSION AND DEFLECTION WHERE RACEWAY CROSSES SEISMIC, CONTROL AND EXPANSION JOINTS.
R. INSTALL SUITABLE PULL STRING OR CORD IN EACH EMPTY RACEWAY EXCEPT SLEEVES AND NIPPLES.
S. CLOSE ENDS AND UNUSED OPENINGS IN WIREWAY.
T. INSTALL PULL BOXES AND JUNCTION BOXES ABOVE ACCESSIBLE CEILINGS AND IN UNFINISHED AREAS ONLY.
U. IN ACCESSIBLE CEILING AREAS: INSTALL OUTLET AND JUNCTION BOXES NO MORE THAN 6 INCHES FROM CEILING ACCESS PANEL OR FROM REMOVABLE RECESSED LUMINAIRE.
V. LOCATE FLUSH MOUNTING BOX IN MASONRY WALL TO REQUIRE CUTTING OF MASONRY UNIT CORNER ONLY. COORDINATE MASONRY CUTTING TO ACHIEVE NEAT OPENING.
W. DO NOT INSTALL FLUSH MOUNTING BOX BACK-TO-BACK IN WALLS; INSTALL WITH MINIMUM 6 INCHES SEPARATION. INSTALL WITH MINIMUM 24 INCHES SEPARATION IN ACOUSTIC RATED WALLS.
X. DO NOT FASTEN BOXES TO CEILING SUPPORT WIRES OR OTHER PIPING SYSTEMS.
Y. SUPPORT BOXES INDEPENDENTLY OF CONDUIT.
Z. USE FLUSH MOUNTING OUTLET BOX IN FINISHED AREAS.
AA. SET FLOOR BOXES LEVEL AND FLUSH WITH FINISH FLOORING MATERIAL
AB. INSTALL CONDUIT TO PRESERVE FIRE RESISTANCE RATING OF PARTITIONS AND OTHER ELEMENTS.
AC. ROUTE CONDUIT THROUGH ROOF OPENINGS FOR PIPING AND DUCTWORK OR THROUGH SUITABLE ROOF JACK WITH PITCH POCKET
AD. ALIGN ADJACENT WALL MOUNTED OUTLET BOXES FOR SWITCHES, THERMOSTATS, AND SIMILAR DEVICES.

ELECTRICAL SPECIFICATIONS

A. ALL ELECTRICAL WORK TO CONFORM TO:
   1. NFPA 70 (NATIONAL ELECTRIC CODE) - CURRENT VERSION
   2. NECA (NATIONAL ELECTRICAL CONTRACTORS ASSOCIATION) - STANDARD OF INSTALLATION
   3. NETA ATS (INTERNATIONAL ELECTRICAL TESTING ASSOCIATION) - ACCEPTANCE TESTING SPECIFICATIONS FOR ELECTRICAL POWER DISTRIBUTION EQUIPMENT AND SYSTEMS.
   4. NFPA 72 (NATIONAL FIRE PROTECTION ASSOCIATION - NATIONAL FIRE ALARM CODE).
   5. ALL APPLICABLE LOCAL CODES.
B. ALL WORK SHOWN ON THIS DRAWING IS THE RESPONSIBILITY OF THE CONTRACTOR, UNLESS CLEARLY INDICATED AS PART OF ANOTHER PRIME CONTRACT.
C. PROVIDE TEMPORARY POWER REQUIRED FOR ALL TRADES.
D. MATCH OWNERS EXISTING STANDARD EQUIPMENT.
E. COORDINATE WORK TO MINIMIZE OUTAGE DURATION.
F. OBTAIN ALL REQUIRED PERMITS & INSPECTIONS.
G. PROVIDE FOR ELECTRICAL INSPECTIONS AND SUBMIT REPORTS TO THE OWNER.
H. SUBMIT O&M MANUALS TO OWNER UPON COMPLETION OF WORK.
I. PROVIDE TRAINING SESSION FOR DESIGNATED MAINTENEANCE PERSONNEL.
J. PROVIDE SUBMITTALS FOR ALL ELECTRICAL EQUIPMENT, EXCLUDING WIRE, CONDUIT, AND FASTENERS.
   1. HANDHOLES.
   2. PANELBOARDS - SHOP DRAWINGS (INDICATE OUTLINE AND SUPPORT POINT DIMENSIONS, VOLTAGE, MAIN BUS AMPACITY, INTEGRATED SHORT CIRCUIT AMPERE RATING, CIRCUIT BREAKER AND FUSIBLE SWITCH ARRANGEMENT AND SIZES) AND CATALOG DATA SHOWING SPECIFIED FEATURES OF STANDARD PRODUCTS.
   3. ENCLOSED SWITCHES - SWITCH RATINGS AND ENCLOSURE DIMENSIONS.
   4. DEVICES - MANUFACTURER'S CATALOG INFORMATION SHOWING DIMENSIONS, COLORS, AND CONFIGURATIONS.
   5. LUMINAIRES (INCLUDING EMERGENCY & EXIT FIXTURES) - CATALOG INFORMATION SHOWING DIMENSIONS, RATINGS, AND PERFORMANCE DATA.
K. SELECT MATERIALS, SIZES, AND TYPES OF ANCHORS, FASTENERS, AND SUPPORTS TO CARRY LOADS OF EQUIPMENT AND RACEWAY, INCLUDING WEIGHT OF WIRE AND CABLE IN RACEWAY.

GROUNDING SYSTEMS

A. GROUNDING SYSTEM RESISTANCE: 25 OHMS.
B. GROUNDING SYSTEMS:
   1. MECHANICAL CONNECTORS: BRONZE CONNECTORS, SUITABLE FOR GROUNDING AND BONDING APPLICATIONS, IN CONFIGURATIONS REQUIRED FOR PARTICULAR INSTALLATION.
C. EXOTHERMIC CONNECTIONS: EXOTHERMIC MATERIALS, ACCESSORIES, AND TOOLS FOR PREPARING AND MAKING PERMANENT FIELD CONNECTIONS BETWEEN GROUNDING SYSTEM COMPONENTS.
D. WIRE: STRANDED COPPER.
E. GROUNDING ELECTRODE CONDUCTOR: SIZE TO MEET NFPA 70 AND LOCAL MUNICIPALITY REQUIREMENTS.
F. INSTALLATION:
   1. EQUIPMENT GROUNDING CONDUCTOR: INSTALL SEPARATE, INSULATED CONDUCTOR WITHIN EACH FEEDER AND BRANCH CIRCUIT RACEWAY. TERMINATE EACH END ON SUITABLE LUG, BUS, OR BUSHING.
   2. DO NOT FASTEN SUPPORTS TO PIPES, DUCTS, MECHANICAL EQUIPMENT, OR CONDUIT.
   3. OBTAIN PERMISSION FROM ARCHITECT/ENGINEER BEFORE USING POWDER-ACTUATED ANCHORS OR DRILLING OR CUTTING STRUCTURAL MEMBERS.

HANGERS AND SUPPORTS

A. ANCHORS & FASTENERS TO BE CORROSION RESISTANT.
B. ANCHOR AND FASTEN ELECTRICAL PRODUCTS TO BUILDING ELEMENTS AND FINISHES AS FOLLOWS:
   1. CONCRETE STRUCTURAL ELEMENTS: PROVIDE EXPANSION ANCHORS.
   2. STEEL STRUCTURAL ELEMENTS: PROVIDE BEAM CLAMPS AND SPRING STEEL CLIPS.
   3. CONCRETE SURFACES: PROVIDE EXPANSION ANCHORS.
   4. HOLLOW MASONRY, PLASTER, AND GYPSUM BOARD PARTITIONS: PROVIDE TOGGLE BOLTS AND HOLLOW WALL FASTENERS.
   5. SOLID MASONRY WALLS: PROVIDE EXPANSION ANCHORS.
   6. SHEET METAL: PROVIDE SHEET METAL SCREWS.
   7. WOOD ELEMENTS: PROVIDE WOOD SCREWS.
C. SUPPORTS:
   1. FABRICATE SUPPORTS FROM STRUCTURAL STEEL OR FORMED STEEL MEMBERS. RIGIDLY WELD MEMBERS OR INSTALL HEXAGON HEAD BOLTS TO PRESENT NEAT APPEARANCE WITH ADEQUATE STRENGTH AND RIGIDITY. INSTALL SPRING LOCK WASHERS UNDER NUTS.
   2. INSTALL SURFACE MOUNTED CABINETS AND PANELBOARDS WITH MINIMUM OF FOUR ANCHORS.
   3. IN WET AND DAMP LOCATIONS INSTALL STEEL CHANNEL SUPPORTS TO STAND CABINETS AND PANELBOARDS 1 INCH OFF WALL.
   4. INSTALL SHEET METAL CHANNEL TO BRIDGE STUDS ABOVE AND BELOW CABINETS AND PANELBOARDS RECESSED IN HOLLOW PARTITIONS.

BUILDING WIRE AND CABLE

A. PROVIDE PRODUCTS AS FOLLOWS:
   1. SOLID CONDUCTOR FOR FEEDERS AND BRANCH CIRCUITS 10 AWG AND SMALLER.
   2. STRANDED CONDUCTORS FOR CONTROL CIRCUITS.
   3. CONDUCTOR NOT SMALLER THAN #12 AWG FOR POWER AND LIGHTING CIRCUITS.
   4. CONDUCTOR NOT SMALLER THAN #16 AWG FOR CONTROL CIRCUITS.
   5. 10 AWG CONDUCTORS FOR 20 AMPERE, 120 VOLT BRANCH CIRCUITS LONGER THAN 75 FEET.
   6. 10 AWG CONDUCTORS FOR 20 AMPERE, 277 VOLT BRANCH CIRCUITS LONGER THAN 200 FEET.
B. WIRING METHODS: PROVIDE THE FOLLOWING WIRING METHODS:
   1. CONCEALED DRY INTERIOR LOCATIONS: USE ONLY BUILDING WIRE, TYPE THHN/THWN INSULATION, IN RACEWAY.
   2. ABOVE ACCESSIBLE CEILINGS: USE ONLY BUILDING WIRE, TYPE THHN/THWN INSULATION, IN RACEWAY.
   3. WET OR DAMP INTERIOR LOCATIONS: USE ONLY BUILDING WIRE, TYPE THHN/THWN INSULATION, IN RACEWAY.
   4. UNDERGROUND LOCATIONS: USE ONLY BUILDING WIRE, TYPE THHN/THWN INSULATION, IN RACEWAY.
C. WIRE AND CABLE ROUTING INDICATED IS APPROXIMATE UNLESS DIMENSIONED. INCLUDE WIRE AND CABLE LENGTHS WITHIN 10 FT OF LENGTH SHOWN.
D. COMPLETELY AND THOROUGHLY SWAB RACEWAY BEFORE INSTALLING WIRE.
E. NEATLY TRAIN AND LACE WIRING INSIDE BOXES, EQUIPMENT, AND PANELBOARDS.
F. SPECIAL TECHNIQUES--BUILDING WIRE IN RACEWAY:
   1. PULL CONDUCTORS INTO RACEWAY AT SAME TIME.
   2. INSTALL BUILDING WIRE 4 AWG AND LARGER WITH PULLING EQUIPMENT.
G. SPECIAL TECHNIQUES - CABLE:
   1. PROTECT EXPOSED CABLE FROM DAMAGE.
   2. SUPPORT CABLES ABOVE ACCESSIBLE CEILING, USING SPRING METAL CLIPS OR CABLE TIES TO SUPPORT CABLES FROM STRUCTURE OR CEILING SUSPENSION SYSTEM. DO NOT REST CABLE ON CEILING PANELS.
   3. USE SUITABLE CABLE FITTINGS AND CONNECTORS.
H. SPECIAL TECHNIQUES - DIRECT BURIAL CABLE:
   1. TRENCH AND BACKFILL FOR DIRECT BURIAL CABLE INSTALLATION. INSTALL WARNING TAPE ALONG ENTIRE LENGTH OF DIRECT BURIAL CABLE, WITHIN 3 INCHES OF GRADE.
   2. USE SUITABLE DIRECT BURIAL CABLE FITTINGS AND CONNECTORS.
I. SPECIAL TECHNIQUES - WIRING CONNECTIONS:
   1. CLEAN CONDUCTOR SURFACES BEFORE INSTALLING LUGS AND CONNECTORS.
   2. MAKE SPLICES, TAPS, AND TERMINATIONS TO CARRY FULL AMPACITY OF CONDUCTORS WITH NO PERCEPTIBLE TEMPERATURE RISE.
   3. TAPE UNINSULATED CONDUCTORS AND CONNECTORS WITH ELECTRICAL TAPE TO 150 PERCENT OF INSULATION RATING OF CONDUCTOR.
   4. INSTALL SPLIT BOLT CONNECTORS OR MULTI-TAP BLOCKS FOR COPPER CONDUCTOR SPLICES AND TAPS, 6 AWG AND LARGER.
   5. INSTALL SOLDERLESS PRESSURE CONNECTORS WITH INSULATING COVERS FOR COPPER CONDUCTOR SPLICES AND TAPS, 8 AWG AND SMALLER.
   6. INSTALL INSULATED SPRING WIRE CONNECTORS WITH PLASTIC CAPS FOR COPPER CONDUCTOR SPLICES AND TAPS, 10 AWG AND SMALLER.
   7. TERMINATE EXISTING ALUMINUM CONDUCTORS WITH TIN-PLATED, ALUMINUM-BODIED COMPRESSION CONNECTORS ONLY. FILL WITH ANTI-OXIDANT COMPOUND BEFORE INSTALLING CONDUCTOR.
   8. INSTALL SUITABLE REDUCING CONNECTORS OR MECHANICAL CONNECTOR ADAPTORS FOR CONNECTING ALUMINUM CONDUCTORS TO COPPER CONDUCTORS.
J. GROUND CONDUCTORS:
   1. FOR 6 AWG AND SMALLER: GREEN.
   2. FOR 4 AWG AND LARGER: IDENTIFY WITH GREEN TAPE AT BOTH ENDS AND VISIBLE POINTS INCLUDING JUNCTION BOXES.
K. ALL WIRING SHALL BE #12 CU UNLESS SPECIFIED OTHERWISE.

IDENTIFICATION

A. IDENTIFY ELECTRICAL COMPONENTS AS FOLLOWS:
   1. ENGRAVED LAMINATED PLASTIC NAMEPLATE FOR EACH ELECTRICAL DISTRIBUTION, CONTROL EQUIPMENT ENCLOSURE, AND COMMUNICATION CABINET.
   2. CLOTH TYPE WIRE MARKER FOR EACH CONDUCTOR AT PANELBOARD GUTTERS, AND PULL BOXES.
   3. RACEWAY MARKER FOR EACH RACEWAY WHERE IT STUBS ABOVE THE CEILING OR BELOW THE FLOOR.
   4. UNDERGROUND WARNING TAPE ALONG LENGTH OF EACH UNDERGROUND RACEWAY OR CABLE, 3" BELOW FINISHED GRADE. TAPE TO BE 4-INCH WIDE PLASTIC TAPE, DETECTABLE TYPE, COLORED YELLOW WITH SUITABLE WARNING LEGEND DESCRIBING BURIED ELECTRICAL LINES.

SEALING AND FIREPROOFING

F. INSTALL FIRESTOPPING TO MAINTAIN ALL RATINGS AT ALL FIRE SEPARATIONS.
G. FIRE RATED SURFACE:
   1. SEAL OPENING AT AS FOLLOWS:
      A. INSTALL 12 GAGE STEEL SLEEVE THROUGH OPENING AND EXTENDING BEYOND MINIMUM OF 1 INCH ON EACH SIDE OF BUILDING ELEMENT.
      B. SIZE SLEEVE ALLOWING MINIMUM OF 1 INCH VOID BETWEEN SLEEVE AND BUILDING ELEMENT.
      C. PACK VOID WITH BACKING MATERIAL.
      D. SEAL ENDS OF SLEEVE WITH UL LISTED FIRE RESISTIVE SILICONE COMPOUND TO MEET FIRE RATING OF STRUCTURE PENETRATED.
   2. WHERE CABLE TRAY, BUS, CABLE BUS, CONDUIT, WIREWAY, OR TROUGH PENETRATES FIRE RATED SURFACE, INSTALL FIRESTOPPING PRODUCT IN ACCORDANCE WITH MANUFACTURER'S PUBLISHED INSTRUCTIONS.
B. NON-RATED SURFACES:
   1. SEAL OPENING THROUGH NON-FIRE RATED ROOF OPENING AS FOLLOWS:
      A. INSTALL 12 GAGE STEEL SLEEVE THROUGH OPENING AND EXTENDING BEYOND MINIMUM OF 1 INCH ON EACH SIDE OF BUILDING ELEMENT.
      B. SIZE SLEEVE ALLOWING MINIMUM OF 1 INCH VOID BETWEEN SLEEVE AND BUILDING ELEMENT.
      C. INSTALL TYPE OF FIRESTOPPING MATERIAL RECOMMENDED BY MANUFACTURER.
   2. EXTERIOR WALL OPENINGS BELOW GRADE: ASSEMBLE RUBBER LINKS OF MECHANICAL SEAL TO SIZE OF CONDUIT AND TIGHTEN IN PLACE, IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS.

PANELBOARDS

A. MANUFACTURERS:
   1. EATON/CUTLER-HAMMER.
   2. GE ELECTRICAL.
   3. SIEMENS/ITE.
   4. SQUARE D MODEL.
B. BOLT-ON CIRCUIT BREAKER TYPE, DISTRIBUTION ,LIGHTING AND APPLIANCE BRANCH CIRCUIT PANELBOARD.
C. PANELBOARD BUS: COPPER CURRENT CARRYING COMPONENTS, RATINGS AS INDICATED ON DRAWINGS. FURNISH COPPER GROUND BUS IN EACH PANELBOARD; FURNISH INSULATED GROUND BUS AS INDICATED ON DRAWINGS.
D. MINIMUM INTEGRATED SHORT CIRCUIT RATING: 22,000 AMPERES RMS SYMMETRICAL FOR 240 VOLT PANELBOARDS; 65,000 AMPERES RMS SYMMETRICAL FOR 480 VOLT PANELBOARDS.
E. MOLDED CASE CIRCUIT BREAKERS: NEMA AB 1, BOLT-ON TYPE THERMAL MAGNETIC TRIP CIRCUIT BREAKERS, WITH COMMON TRIP HANDLE FOR ALL POLES, LISTED AS TYPE SWD FOR LIGHTING CIRCUITS, TYPE HACR FOR AIR CONDITIONING EQUIPMENT CIRCUITS, CLASS A GROUND FAULT INTERRUPTER CIRCUIT BREAKERS AS INDICATED ON DRAWINGS. DO NOT USE TANDEM CIRCUIT BREAKERS.
F. ENCLOSURE: NEMA PB 1, TYPE 1
G. CABINET BOX: 6 INCHES DEEP, 20 INCHES WIDE FOR 240 VOLT AND LESS PANELBOARDS, 20 INCHES WIDE FOR 480 VOLT PANELBOARDS.
H. CABINET FRONT: SURFACE DOOR-IN-DOOR TYPE, FASTENED WITH HINGE AND LATCH, HINGED DOOR WITH FLUSH LOCK, METAL DIRECTORY FRAME, FINISHED IN MANUFACTURER'S STANDARD GRAY ENAMEL. OUTER PANELBOARD TRIMS SHALL COVER ALL LIVE PARTS. SWITCHING DEVICE HANDLES SHALL BE ACCESSIBLE.
I. SURFACE TRIMS SHALL BE SAME HEIGHT AND WIDTH AS BOX. FLUSH TRIMS SHALL OVERLAP THE BOX BY 3/4 OF AN INCH ON ALL SIDES.
J. INSTALL RECESSED PANELBOARDS FLUSH WITH WALL FINISHES.
K. HEIGHT: 6 FEET TO TOP OF PANELBOARD; INSTALL PANELBOARDS TALLER THAN 6 FEET WITH BOTTOM NO MORE THAN 4 INCHES ABOVE FLOOR.
L. INSTALL FILLER PLATES FOR UNUSED SPACES IN PANELBOARDS.
M. PROVIDE TYPED CIRCUIT DIRECTORY FOR EACH BRANCH CIRCUIT PANELBOARD PER ARICHTECTURAL ROOM DESIGNATIONS. REVISE DIRECTORY TO REFLECT CIRCUITING CHANGES TO BALANCE PHASE LOADS.
N. MARK UNUSED CIRCUIT BREAKERS AS SPARE AND SWITCH TO OFF POSITION.
O. MEASURE STEADY STATE LOAD CURRENTS AT EACH PANELBOARD FEEDER; REARRANGE CIRCUITS IN PANELBOARD TO BALANCE PHASE LOADS TO WITHIN 20 PERCENT OF EACH OTHER. MAINTAIN PROPER PHASING FOR MULTI-WIRE BRANCH CIRCUITS.

ENCLOSED SWITCHES

A. MANUFACTURERS:
   1. CUTLER-HAMMER.
   2. SQUARE D.
   3. GE ELECTRICAL.
   4. SIEMENS.
B. PRODUCT DESCRIPTION: NEMA KS 1, TYPE HD WITH EXTERNALLY OPERABLE HANDLE INTERLOCKED TO PREVENT OPENING FRONT COVER WITH SWITCH IN ON POSITION, ENCLOSED LOAD INTERRUPTER KNIFE SWITCH. HANDLE LOCKABLE IN OFF POSITION, WITH PROVISIONS FOR THREE PADLOCKS.
C. SWITCH MECHANISM: TO BE QUICK-MAKE, QUICK-BREAK SUCH THAT, DURING NORMAL OPERATION OF THE SWITCH, THE OPERATION OF THE CONTACTS SHALL NOT BE CAPABLE OF BEING RESTRAINED BY THE OPERATING HANDLE AFTER THE CLOSING OR OPENING ACTION OF THE CONTACTS HAS STARTED.
D. FUSE CLIPS: DESIGNED TO ACCOMMODATE NEMA FU 1, CLASS R, J FUSES.
E. ENCLOSURE: NEMA CONFIGURATION TO MEET CONDITIONS
   1. INTERIOR DRY LOCATIONS: TYPE 1.
   2. EXTERIOR LOCATIONS: TYPE 3R.
   3. INDUSTRIAL LOCATIONS: TYPE 4X.
G. SERVICE ENTRANCE: SWITCHES IDENTIFIED FOR USE AS SERVICE EQUIPMENT ARE TO BE LABELED FOR THIS APPLICATION. FURNISH SOLID NEUTRAL ASSEMBLY AND EQUIPMENT GROUND BAR.
H. FURNISH SWITCHES WITH ENTIRELY COPPER CURRENT CARRYING PARTS.
I. SWITCH RATING: HORSEPOWER RATED FOR AC AS INDICATED ON DRAWINGS.
J. SHORT CIRCUIT CURRENT RATING: 200,000 RMS SYMMETRICAL AMPERES WHEN USED WITH OR PROTECTED BY CLASS R OR CLASS J FUSES (30-600 AMPERE SWITCHES EMPLOYING APPROPRIATE FUSE REJECTION SCHEMES).
K. HEIGHT: 5 FEET TO OPERATING HANDLE.
L. INSTALL FUSES FOR FUSIBLE DISCONNECT SWITCHES.

WIRING DEVICES

A. MANUFACTURERS:
   1. PASS & SEYMOUR LEGRAND.
   2. HUBELL.
   3. LEVITON.
   4. GENERAL ELECTRIC.
B. PRODUCT DESCRIPTION: NEMA WD 1, HEAVY-DUTY, AC ONLY SPECIFICATION GRADE SWITCH/RECEPTACLE. ALL DEVICES TO BE SPECIFICATION GRADE OR BETTER.
C. BODY / HANDLE: IVORY PLASTIC WITH TOGGLE HANDLE.
D. RATINGS: MATCH BRANCH CIRCUIT AND LOAD CHARACTERISTICS, MINIMUM 20A.
E. GFCI RECEPTACLE: CONVENIENCE RECEPTACLE WITH INTEGRAL GROUND FAULT CIRCUIT INTERRUPTER TO MEET REGULATORY REQUIREMENTS.
E. WP RECEPTACLE: (WEATHERPROOF) TO BE GFI PROTECTED.

WALL PLATES

A. MANUFACTURERS:
   1. PASS & SEYMOUR LEGRAND.
   2. TAYMAC 20510 (WEATHERPROOF-IN-USE).
   3. HUBELL (BELL/RACO).
   4. LEVITON.
   5. GENERAL ELECTRIC.
B. INSTALL DECORATIVE PLATES ON SWITCH, RECEPTACLE, AND BLANK OUTLETS IN FINISHED AREAS. DECORATIVE COVER PLATE: NYLON.
C. INSTALL JUMBO SIZE PLATES FOR OUTLETS INSTALLED IN MASONRY WALLS. JUMBO COVER PLATE: NYLON.
D. WEATHERPROOF COVER PLATE (RECEPTACLE): IMPACT RESISTANT PLASTIC PLATE WITH HINGED AND GASKETED DEVICE COVER. COVER TO BE RATED FOR WET LOCATION WHILE IN USE, AND TO BE LOCKABLE.
E. WEATHERPROOF COVER PLATE (SWITCH): GASKETED CAST METAL PLATE WITH HINGED AND GASKETED DEVICE COVER OR LEVER SWITCH MECHANISM. (P&S CA-31G/HUBBELL/BELL/RACO 5125 OR EQUAL)
F. KITCHEN AREAS: 302/430 STAINLESS STEEL, WEATHERPROOF FOR STARTUPS.
G. INSTALL GALVANIZED (STAMPED) STEEL PLATES ON OUTLET BOXES AND JUNCTION BOXES IN UNFINISHED AREAS, ABOVE ACCESSIBLE CEILINGS, AND ON SURFACE MOUNTED OUTLETS.
H. INSTALL DEVICES PLUMB AND LEVEL.
I. INSTALL SWITCHES WITH OFF POSITION DOWN.
J. INSTALL RECEPTACLES WITH GROUNDING POLE ON TOP, OR TO THE LEFT (IF MOUNTED HORIZONTALLY.
K. CONNECT WIRING DEVICE GROUNDING TERMINAL TO OUTLET BOX WITH BONDING JUMPER AND BRANCH CIRCUIT EQUIPMENT GROUNDING CONDUCTOR.
L. CONNECT WIRING DEVICES BY WRAPPING SOLID CONDUCTOR AROUND SCREW TERMINAL. INSTALL STRANDED CONDUCTOR FOR BRANCH CIRCUITS 10 AWG AND SMALLER. WHEN STRANDED CONDUCTORS ARE USED IN LIEU OF SOLID, USE CRIMP ON FORK TERMINALS FOR DEVICE TERMINATIONS. DO NOT PLACE BARE STRANDED CONDUCTORS DIRECTLY UNDER DEVICE SCREWS.
M. ADJUST DEVICES AND WALL PLATES TO BE FLUSH AND LEVEL.

INTERIOR LUMINAIRES

A. ALL FIXTURES TO BE SPECIFICATION GRADE OR BETTER.
B. PERFORMANCE REQUIREMENTS: FOR AREAS OF ASSEMBLY, SUBMIT POINT-BY-POINT LIGHT LEVEL CALCULATIONS TO VERIFY COMPLIANCE WITH DESIGN LEVELS.
C. PROVIDE COMPLETE INTERIOR LUMINAIRE ASSEMBLIES, WITH FEATURES, OPTIONS, AND ACCESSORIES AS SCHEDULED.
D. INSTALL SUSPENDED LUMINAIRES USING PENDANTS SUPPORTED FROM SWIVEL HANGERS. INSTALL PENDANT LENGTH REQUIRED TO SUSPEND LUMINAIRE AT INDICATED HEIGHT.
E. SUPPORT LUMINAIRES LARGER THAN 2 X 4 FOOT SIZE INDEPENDENT OF CEILING FRAMING.
F. INSTALL SURFACE MOUNTED LUMINAIRES PLUMB AND ADJUST TO ALIGN WITH BUILDING LINES AND WITH EACH OTHER. SECURE TO PREVENT MOVEMENT.
G. EXPOSED GRID CEILINGS: SUPPORT SURFACE-MOUNTED LUMINAIRES ON GRID CEILING DIRECTLY FROM BUILDING. FASTEN SURFACE MOUNTED LUMINAIRES TO CEILING GRID MEMBERS USING BOLTS, SCREWS, RIVETS, OR SUITABLE CLIPS.
H. INSTALL RECESSED LUMINAIRES TO PERMIT REMOVAL FROM BELOW.
I. INSTALL RECESSED LUMINAIRES USING ACCESSORIES AND FIRESTOPPING MATERIALS TO MEET REGULATORY REQUIREMENTS FOR FIRE RATING.
J. INSTALL CLIPS TO SECURE RECESSED GRID-SUPPORTED LUMINAIRES IN PLACE.
K. CONNECT LUMINAIRES TO BRANCH CIRCUIT OUTLETS USING FLEXIBLE CONDUIT. MAXIMUM LENGTH FIXTURE WHIP TO BE 5 FEET.
L. MAKE WIRING CONNECTIONS TO BRANCH CIRCUIT USING BUILDING WIRE WITH INSULATION SUITABLE FOR TEMPERATURE CONDITIONS WITHIN LUMINAIRE.
M. INSTALL SPECIFIED LAMPS IN EACH LUMINAIRE.
N. AIM AND ADJUST LUMINAIRES TO PROVIDE LIGHT LEVELS CONSISTENT WITH DESIGN.

LED LIGHTING FIXTURES

A. MANUFACTURERS:
   1. AS SPECIFIED BY LIGHT FIXTURE SCHEDULE
B. CRI OF 80. CCT OF 4000K
C. RATED LAMP LIFE OF MIN 50,000 HRS
D. LAMPS DIMMABLE FROM 100 PERCENT TO 0 PERCENT OF MAXIMUM LIGHT OUTPUT
E. INTERNAL DRIVER NOMINAL OPERATING VOLTAGE 120V AC

FIRE ALARM SYSTEM

A. SYSTEM DESCRIPTION: NONCODED ADDRESSABLE SYSTEM, WITH AUTOMATIC SENSITIVITY CONTROL OF CERTAIN SMOKE DETECTORS AND MULTIPLEXED SIGNAL TRANSMISSION, DEDICATED TO FIRE-ALARM SERVICE ONLY.
B. SUBMITTALS
   1. PRODUCT DATA: FOR EACH TYPE OF PRODUCT INDICATED.
   2. SHOP DRAWINGS: FOR FIRE-ALARM SYSTEM. INCLUDE PLANS, ELEVATIONS, SECTIONS, DETAILS, AND ATTACHMENTS TO OTHER WORK.
C. FIELD QUALITY-CONTROL REPORTS
   1. OPERATION AND MAINTENANCE DATA: FOR FIRE-ALARM SYSTEMS AND COMPONENTS TO INCLUDE IN EMERGENCY, OPERATION, AND MAINTENANCE MANUALS.
D. INSTALLER QUALIFICATIONS:
   1. PERSONNEL SHALL BE TRAINED AND CERTIFIED BY MANUFACTURER FOR INSTALLATION OF UNITS.
   2. INSTALLATION SHALL BE BY PERSONNEL CERTIFIED BY NICET AS FIRE-ALARM LEVEL II TECHNICIAN.
E. OBTAIN FIRE-ALARM SYSTEM FROM SINGLE SOURCE FROM SINGLE MANUFACTURER. ELECTRICAL COMPONENTS, DEVICES, AND ACCESSORIES: LISTED AND LABELED AS DEFINED IN NFPA 70, BY A QUALIFIED TESTING AGENCY, AND MARKED FOR INTENDED LOCATION AND APPLICATION.
F. FIRE-ALARM SIGNAL INITIATION SHALL BE BY ONE OR MORE OF THE FOLLOWING DEVICES:
   1. MANUAL STATIONS.
   2. HEAT DETECTORS.
   3. SMOKE DETECTORS.
   4. AUTOMATIC SPRINKLER SYSTEM WATER FLOW.
G. CONTINUOUSLY OPERATE ALARM NOTIFICATION APPLIANCES.
H. IDENTIFY ALARM AT FIRE-ALARM CONTROL UNIT AND REMOTE ANNUNCIATORS.
I. TRANSMIT AN ALARM SIGNAL TO THE REMOTE ALARM RECEIVING STATION
J. GENERAL REQUIREMENTS FOR FIRE-ALARM CONTROL UNIT:
   1. FIELD-PROGRAMMABLE, MICROPROCESSOR-BASED, MODULAR, POWER-LIMITED DESIGN WITH ELECTRONIC MODULES, COMPLYING WITH UL 864 AND LISTED AND LABELED BY AN NRTL.
   2. ADDRESSABLE CONTROL CIRCUITS FOR OPERATION OF MECHANICAL EQUIPMENT.
   3. ALPHANUMERIC DISPLAY AND SYSTEM CONTROLS: ARRANGED FOR INTERFACE BETWEEN HUMAN OPERATOR AT FIRE-ALARM CONTROL UNIT AND ADDRESSABLE SYSTEM COMPONENTS INCLUDING ANNUNCIATION AND SUPERVISION. DISPLAY ALARM, SUPERVISORY, AND COMPONENT STATUS MESSAGES AND THE PROGRAMMING AND CONTROL MENU.
   4. KEYPAD: ARRANGED TO PERMIT ENTRY AND EXECUTION OF PROGRAMMING, DISPLAY, AND CONTROL COMMANDS AND TO INDICATE CONTROL COMMANDS TO BE ENTERED INTO THE SYSTEM FOR CONTROL OF SMOKE-DETECTOR SENSITIVITY AND OTHER PARAMETERS.
K. ADDRESSABLE INITIATION DEVICES THAT COMMUNICATE DEVICE IDENTITY AND STATUS.
L. SMOKE SENSORS SHALL ADDITIONALLY COMMUNICATE SENSITIVITY SETTING AND ALLOW FOR ADJUSTMENT OF SENSITIVITY AT FIRE-ALARM CONTROL UNIT.
M. TEMPERATURE SENSORS SHALL ADDITIONALLY TEST FOR AND COMMUNICATE THE SENSITIVITY RANGE OF THE DEVICE.
N. ANNUNCIATOR AND DISPLAY: LIQUID-CRYSTAL TYPE, 1 LINE(S) OF 40 CHARACTERS, MINIMUM.
O. INITIATING DEVICE, NOTIFICATION APPLIANCE, AND SIGNALING LINE CIRCUITS: NFPA 72, CLASS B.
P. AUTOMATICALLY TRANSMIT ALARM, SUPERVISORY, AND TROUBLE SIGNALS TO A REMOTE ALARM STATION.
Q. GENERAL REQUIREMENTS FOR MANUAL FIRE-ALARM BOXES: COMPLY WITH UL 38. BOXES SHALL BE FINISHED IN RED WITH MOLDED, RAISED-LETTER OPERATING INSTRUCTIONS IN CONTRASTING COLOR; SHALL SHOW VISIBLE INDICATION OF OPERATION; AND SHALL BE MOUNTED ON RECESSED OUTLET BOX. IF INDICATED AS SURFACE MOUNTED, PROVIDE MANUFACTURER'S SURFACE BACK BOX.
R. DOUBLE-ACTION MECHANISM REQUIRING TWO ACTIONS TO INITIATE AN ALARM, PULL-LEVER] TYPE; WITH INTEGRAL ADDRESSABLE MODULE ARRANGED TO COMMUNICATE MANUAL-STATION STATUS (NORMAL, ALARM, OR TROUBLE) TO FIRE-ALARM CONTROL UNIT.
S. STATION RESET: KEY- OR WRENCH-OPERATED SWITCH.
T. GENERAL REQUIREMENTS FOR SYSTEM SMOKE DETECTORS:
   1. INTEGRAL ADDRESSABLE MODULE: ARRANGED TO COMMUNICATE DETECTOR STATUS (NORMAL, ALARM, OR TROUBLE) TO FIRE-ALARM CONTROL UNIT.
   2. BASE MOUNTING: DETECTOR AND ASSOCIATED ELECTRONIC COMPONENTS SHALL BE MOUNTED IN A TWIST-LOCK MODULE THAT CONNECTS TO A FIXED BASE. PROVIDE TERMINALS IN THE FIXED BASE FOR CONNECTION TO BUILDING WIRING.
   3. SELF-RESTORING: DETECTORS DO NOT REQUIRE RESETTING OR READJUSTMENT AFTER ACTUATION TO RESTORE THEM TO NORMAL OPERATION.
   4. INTEGRAL VISUAL-INDICATING LIGHT: LED TYPE INDICATING DETECTOR HAS OPERATED AND POWER-ON STATUS
   5. PHOTOELECTRIC SMOKE DETECTORS:
   6. DETECTOR ADDRESS SHALL BE ACCESSIBLE FROM FIRE-ALARM CONTROL UNIT AND SHALL BE ABLE TO IDENTIFY THE DETECTOR'S LOCATION WITHIN THE SYSTEM AND ITS SENSITIVITY SETTING.
U. AN OPERATOR AT FIRE-ALARM CONTROL UNIT, HAVING THE DESIGNATED ACCESS LEVEL, SHALL BE ABLE TO MANUALLY ACCESS THE FOLLOWING FOR EACH DETECTOR:
   1. PRIMARY STATUS.
   2. DEVICE TYPE.
   3. PRESENT AVERAGE VALUE.
   4. PRESENT SENSITIVITY SELECTED.
   5. SENSOR RANGE (NORMAL, DIRTY, ETC.).
V. HEAT DETECTORS, GENERAL REQUIREMENTS FOR HEAT DETECTORS: COMPLY WITH UL 521.
W. REMOTE ANNUNCIATOR
   1. ANNUNCIATOR FUNCTIONS SHALL MATCH THOSE OF FIRE-ALARM CONTROL UNIT FOR ALARM, SUPERVISORY, AND TROUBLE INDICATIONS. MANUAL SWITCHING FUNCTIONS SHALL MATCH THOSE OF FIRE-ALARM CONTROL UNIT, INCLUDING ACKNOWLEDGING, SILENCING, RESETTING, AND TESTING.
   2. MOUNTING: FLUSH CABINET, NEMA 250, TYPE 1.
   3. DISPLAY TYPE AND FUNCTIONAL PERFORMANCE: ALPHANUMERIC DISPLAY AND LED INDICATING LIGHTS SHALL MATCH THOSE OF FIRE-ALARM CONTROL UNIT. PROVIDE CONTROLS TO ACKNOWLEDGE, SILENCE, RESET, AND TEST FUNCTIONS FOR ALARM, SUPERVISORY, AND TROUBLE SIGNALS.
X. EQUIPMENT INSTALLATION
   1. COMPLY WITH NFPA 72 FOR INSTALLATION OF FIRE-ALARM EQUIPMENT.
   2. INSTALL WALL-MOUNTED EQUIPMENT, WITH TOPS OF CABINETS NOT MORE THAN 72 INCHES (1830 MM) ABOVE THE FINISHED FLOOR.
Y. LOCATE DETECTORS NOT CLOSER THAN 3 FEET (1 M) FROM AIR-SUPPLY DIFFUSER OR RETURN-AIR OPENING.
Z. LOCATE DETECTORS NOT CLOSER THAN 12 INCHES (300 MM) FROM ANY PART OF A LIGHTING FIXTURE.
AA. FIRE-ALARM CONTROL UNIT: SURFACE MOUNTED, WITH TOPS OF CABINETS NOT MORE THAN 72 INCHES (1830 MM) ABOVE THE FINISHED FLOOR.
AB. GROUND FIRE-ALARM CONTROL UNIT AND ASSOCIATED CIRCUITS; COMPLY WITH IEEE 1100. INSTALL A GROUND WIRE FROM MAIN SERVICE GROUND TO FIRE-ALARM CONTROL UNIT.
AC. ENGAGE A FACTORY-AUTHORIZED SERVICE REPRESENTATIVE TO TRAIN OWNER'S MAINTENANCE PERSONNEL TO ADJUST, OPERATE, AND MAINTAIN FIRE-ALARM SYSTEM.

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STATE OF NEW YORK
RANDY D. HEARD
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LICENSED PROFESSIONAL ENGINEER
EXP: 12/31/2026

PROJECT & CLIENT

ELEVATOR MODERNIZATION FOR

CENTERTOWN PARKING GARAGE

101 WEST GRAY STREET
ELMIRA NY

REVISIONS

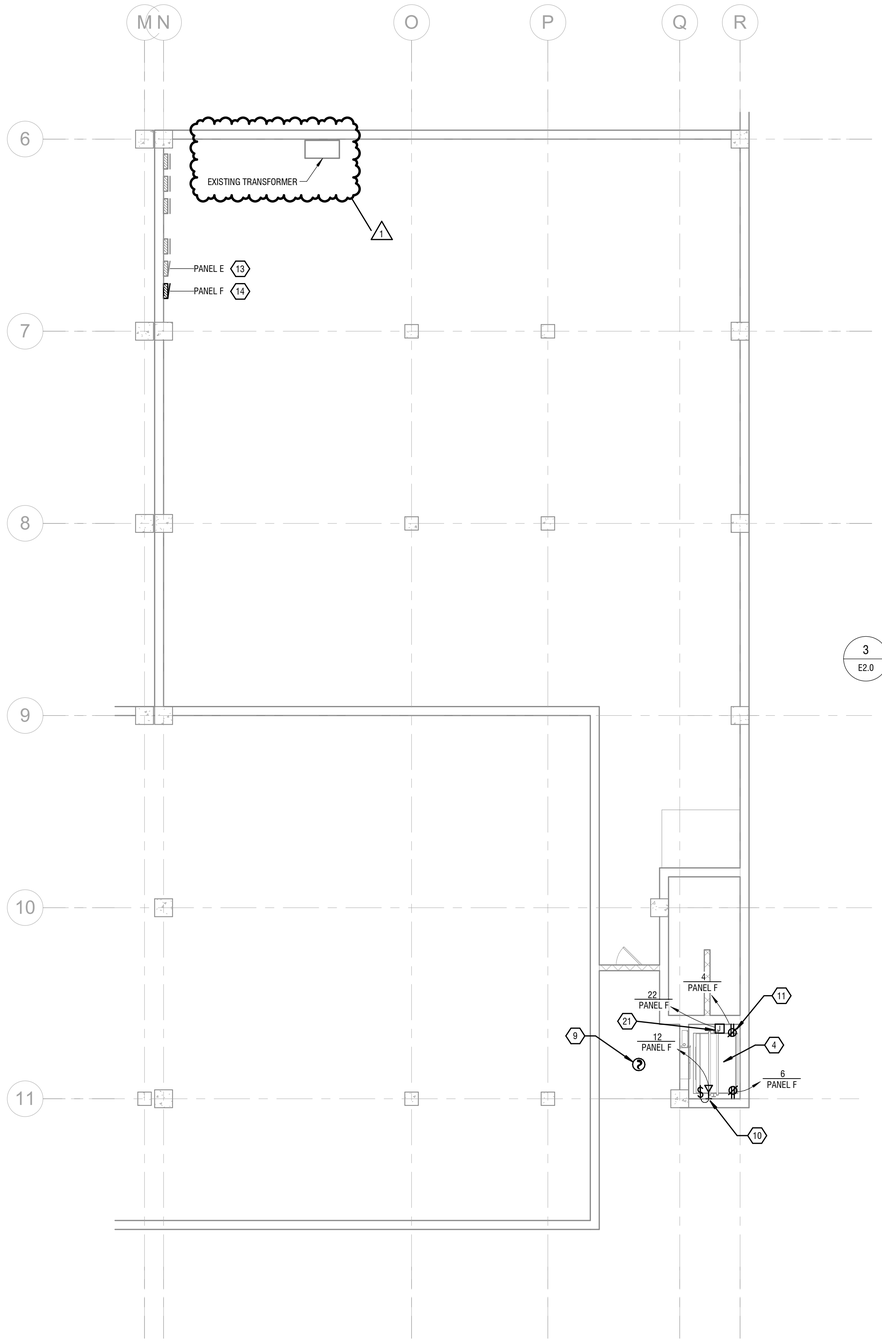
DRAWING TITLE

ELECTRICAL SPECS

DATE	DRAWN BY
NOVEMBER, 2024	JMG

JOB NO.	DWG. NO.
4062	E1.1

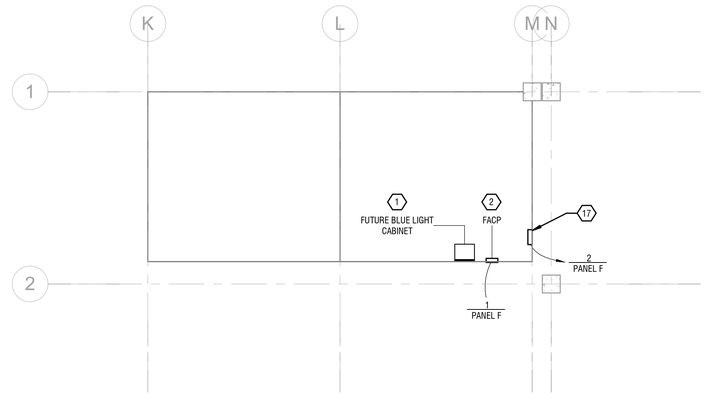
5/6/2026 8:49:01 AM



3 E2.0 GROUND FLOOR ELECTRICAL PLAN - OFFICE AREA

1/8" = 1'-0"

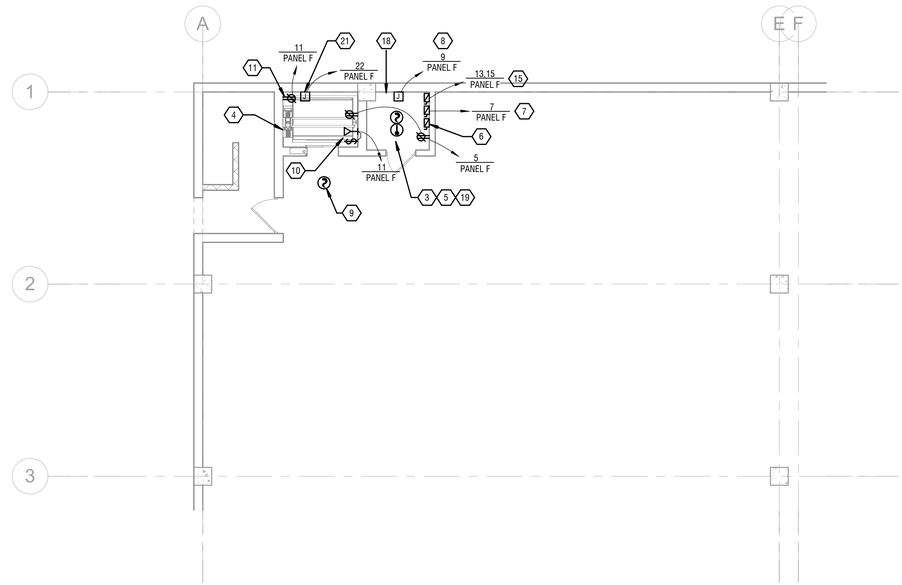
0' 4' 8' 16'



2 E2.0 GROUND FLOOR ELECTRICAL PLAN - ELECTRIC ROOM & SOUTH ELEV

1/8" = 1'-0"

0' 4' 8' 16'



1 E2.0 GROUND FLOOR ELECTRICAL PLAN - NORTH ELEV

1/8" = 1'-0"

0' 4' 8' 16'

GENERAL DRAWING NOTES:

A. ELEVATOR MACHINE ROOM SWITCHES AND LIGHTING TO BE REPLACED TO MEET INCREASED LIGHTING REQUIREMENTS

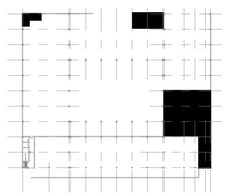
B. PROVIDE DRY CONTACTS IN SMOKE DETECTORS AND WIRE AS REQUIRED TO INTERFACE WITH ELEVATOR CONTROLS FOR RECALL

1 C. ALTERNATE #5: PROVIDE BRANCH CIRCUIT WIRING REQUIRED FOR KEYED NOTES 1 AND 2

D. ELECTRICAL CONTRACTOR IS RESPONSIBLE FOR ANY CUTTING, PATCHING, ETC. NECCESSARY FOR THE WORK OF THEIR TRADE

KEY NOTES:

1. PROVIDE 120V/1PH WIRING BACK TO PANEL 'E'. PROVIDE JUNCTION BOX AT BOTH ENDS AND LEAVE AS SPARE FOR FUTURE USE
2. PROVIDE FACP. PANEL TO BE FIRE-LITE ES-50X OR EQUAL
3. DISCONNECT ALL EXISTING ELEVATOR POWER FEEDS AND BRANCH CIRCUITS INCLUDED. REMOVE DISCONNECTS AND WIRING BACK TO SOURCE. DISCONNECT CAB LIGHT FEED AND REMOVE WIRING BACK TO SOURCE. REMOVE CONDUITS AND WIREWAYS TO CLEAR AREA TO FACILITATE NEW EQUIPMENT
4. DISCONNECT EXISTING SUMP PUMP, PIT LIGHT AND RECEPTACLE. REMOVE WIRING BACK TO SOURCE
5. DISCONNECT EXHAUST FAN AND UNIT HEATER BRANCH CIRCUITS AND REMOVE WIRING BACK TO SOURCE
6. PROVIDE 480V/3PH 100A ENCLOSED SHUNT TRIP BREAKER FOR ELEVATOR POWER FEEDS. PROVIDE (4) #6 W/ #8G IN 1" RGS CONDUIT BACK TO EXISTING GEAR AND CONNECT TO EXISTING 100A FUSED DISCONNECT. ELEVATOR LOAD FOR BOTH NEW ELEVATORS IS 40HP-480V/55.7 RLA/126A STARTING. PROVIDE DRY CONTACT IN DISCONNECT AND WIRING TO ELEVATOR BATTERY LOWERING UNIT TO INDICATE SWITCH POSITION. SHUNT TRIP TO BE CONTROLLER BY HEAT DETECTORS
7. PROVIDE 120V-1PH 30A DISCONNECT FUSED AT 15A FOR ELEVATOR CAB BRANCH CIRCUIT
8. PROVIDE 120V-1PH 15A BRANCH CIRCUIT FOR ELEVATOR CONTROL
9. SMOKE DETECTOR IN THIS LOCATION IS TYPICAL FOR ALL FLOORS. TYPICAL OF 7 FOR EACH OF THE ELEVATORS
10. PROVIDE ELEVATOR PIT LIGHT AND WET LOCATION SWITCH. LIGHT FIXTURES TO BE DURAGUARD MODEL LV1AQ-F-37-U-4K-L-P, OR EQUAL
11. PROVIDE RECEPTACLE FOR SUMP PUMP
12. EXISTING TRANSFORMER TO REMAIN. PROVIDE ADDITIONAL TAP ON SECONDARY SIDE OF UNIT TO FEED NEW PANEL
13. PROVIDE NEW PANEL "F (ELEV AUX)"
14. EXISTING PANEL "E" TO REMIAN. VERIFY NO OTHER LOADS CONNECTED TO ELEVATOR RELATED BREAKERS. TURN OFF AND MARK AS SPARE IF NO REMAINING LOADS ARE CONNECTED. THE FOLLOWING CIRCUITS ARE INDICATED AS ELEVATOR CIRCUITS:
    - PANEL "E" #22 B CTRL & LGTS
    - PANEL "E" #26 A CTRL & LGTS
    - PANEL "E" #4 B MACH RM, PIT RECPT
    - PANEL "E" #5 C CTRL
    - PANEL "E" #7 SUMP PIT
15. PROVIDE DISCONNECT AND BRANCH CIRCUIT FOR WALL-HUNG MINI SPLIT. UNIT TO BE 208V/1PH/19A MCA/25A MOCP. PROVIDE #14 AWG FROM OUTDOOR UNIT TO THE INDOOR UNIT FOR POWER
16. PROVIDE NEMA 3R DISCONNECT AND BRANCH CIRCUIT FOR ROOF MOUNTED PANCAKE MINI SPLIT. UNIT TO BE 208V/1PH/19A MCA/25A MOCP. PROVIDE #12 AWG FROM OUTDOOR UNIT TO THE INDOOR UNIT FOR POWER
17. PROVIDE REMOTE INDICATOR PANEL/BEACON FOR ELEVATOR SUMP PUMPS. PANEL TO BE APRROX 8" x 6" x 6" BOX TO ACCOMODATE SIGNAL BEACON TO BE EDWARDS SIGNALING 125LEDFA120A, OR EQUAL. PROVIDE RELAYS TO ACTIVATE BEACON ON FAILURE OF EITHER OF THE NEW SUMP PUMPS. PROVIDE CONTROL WIRING FROM SUMP PUMP SYSTEMS BACK TO THIS LOCATION. PROVIDE CONNECTION TO CLOSEST AVAILABLE EXISTING BRANCH CIRCUIT
18. PROVIDE DEDICATED TELEPHONE CONNECTION BACK TO OFFICE. PROVIDE ADDITIONAL RJ45 OUTLET FOR CONNECTION OF THE CONTROLLER TO THE INTERNET
19. REMOVE EXISTING LIGHT FIXTURE AND SWITCH IN MACHINE ROOM. SAVE CIRCUIT FOR RE-USE. PROVIDE NEW SWITCH AND CONNECT TO EXISTING BRANCH CIRCUIT AND NEW LIGHTING FIXTURE. FIXTURE TO BE COLUMBIA LCL4-40ML-EU-ELL14-CSHC-LCLWG4, OR EQUAL (CHAIN HUNG WITH WIREGAURD)
20. PROVIDE NEMA 3R DISCONNECT AND BRANCH CIRCUIT FOR ROOF MOUNTED FAN
21. PROVIDE JUNCTION BOX & BRANCH CIRCUIT WIRING FOR HEAT TRACE FOR SUMP PUMP PIPING



KEY PLAN GROUND FLR

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EXP: 12/31/2026

PROJECT & CLIENT

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101 WEST GRAY STREET
ELMIRA NY

REVISIONS

1	REBID	MAY, 2026

DRAWING TITLE

GROUND FLOOR ELECTRICAL PLAN

DATE: NOVEMBER, 2024
DRAWN BY: JMG

JOB NO.: 4062
DWG. NO.: E2.0

5/6/2026 8:49:03 AM

DESIGNATION: PANEL F

LOCATION: ELECTRIC ROOM
FED FROM: TRANSFORMER
SERVICE ENTRANCE LABEL: N/A
OPTIONS:

EQUIPMENT TYPE: SQUARE D NQOD OR EQUAL
DISTRIBUTION VOLTAGE: 208Y/120V
 # OF PHASES: 3
 # OF WIRES: 4
MOUNTING: SURFACE
ENCLOSURE TYPE: NEMA 1

FULLY RATED AIC: MATCH EXISTING
MAINS RATING & TYPE: MCB
BUS RATING: 100 A
MODIFICATIONS:

PANELBOARD SCHEDULE NOTATION: A - PROVIDE AFCI TYPE BREAKER G - PROVIDE GFCI TYPE BREAKER AG - PROVIDE COMBO AFCI/GFCI TYPE BREAKER

NOTES:

NOTES	CKT	CIRCUIT DESCRIPTION	BKR	POLES	A		B		C		POLES	BKR	CIRCUIT DESCRIPTION	CKT	NOTES
	1	FIRE ALARM CONTROL PANEL (FACP)	20 A	1	0	0					1	20 A	REMOTE INDICATOR PANEL	2	
	3	RECPT IN NORTH WEST ELEVATOR PIT	20 A	1			180	180			1	20 A	RECPT IN SOUTH EAST ELEVATOR PIT	4	
	5	RECPTS IN NORTH WEST ELEV & RM	20 A	1					540	540	1	20 A	RECPT IN SOUTH EAST ELEVATOR PIT	6	
	7	ELEVATOR CAB BRANCH CKT	15 A	1	0	0					1	15 A	ELEVATOR CAB BRANCH CKT	8	
	9	ELEVATOR CONTROL	15 A	1			0	0			1	15 A	ELEVATOR CONTROL	10	
	11	LTG IN NORTH WEST ELEV PIT	20 A	1					20	20	1	20 A	LGTS IN SOUTH EAST ELEVATOR PIT	12	
	13	DISCONNECT FOR WALL-HUNG MINI SPLIT (NORTH EAST ELEV RM)	25 A	2	0	0					2	25 A	DISCONNECT FOR WALL-HUNG MINI SPLIT (SOUTH EAST ELEV RM)	14	
	15						0	0						16	
	17	DISCONNECT FOR ROOF MOUNTED PANCAKE MINI SPLIT	25 A	2					0	0	2	25 A	DISCONNECT FOR ROOF MOUNTED PANCAKE MINI SPLIT	18	
	19				0	0								20	
	21	FOR ROOF MOUNTED FAN	15 A	1			0	0			1	20 A	SUMP PUMP HEAT TRACE	22	
	23													24	
	25													26	
	27													28	
	29													30	

	A	B	C
TOTAL CONNECTED PHASE LOADS:	0 VA	360 VA	1118 VA
TOTAL CONNECTED PHASE CURRENTS:	0 A	3 A	10 A

LOAD CLASSIFICATION	CONNECTED LOAD	DEMAND FACTOR	ESTIMATED DEMAND LOAD	TOTALS	
LIGHTING	40 VA	100.00%	40 VA		
Other	0 VA	0.00%	0 VA	**CONNECTED LOAD:**	1478 VA
RECEPTACLE	1440 VA	100.00%	1440 VA	**ESTIMATED DEMAND LOAD:**	1478 VA
POWER	0 VA	0.00%	0 VA	**CONNECTED CURRENT:**	4 A
				ESTIMATED DEMAND CURRENT:	4 A
				NON-COINCIDENT HEATING/COOLING:	0 A
				ESTIMATED DEMAND - NC HEAT/COOL:	4 A

GENERAL DRAWING NOTES:

A. ELEVATOR MACHINE ROOM SWITCHES AND LIGHTING TO BE REPLACED TO MEET INCREASED LIGHTING REQUIREMENTS

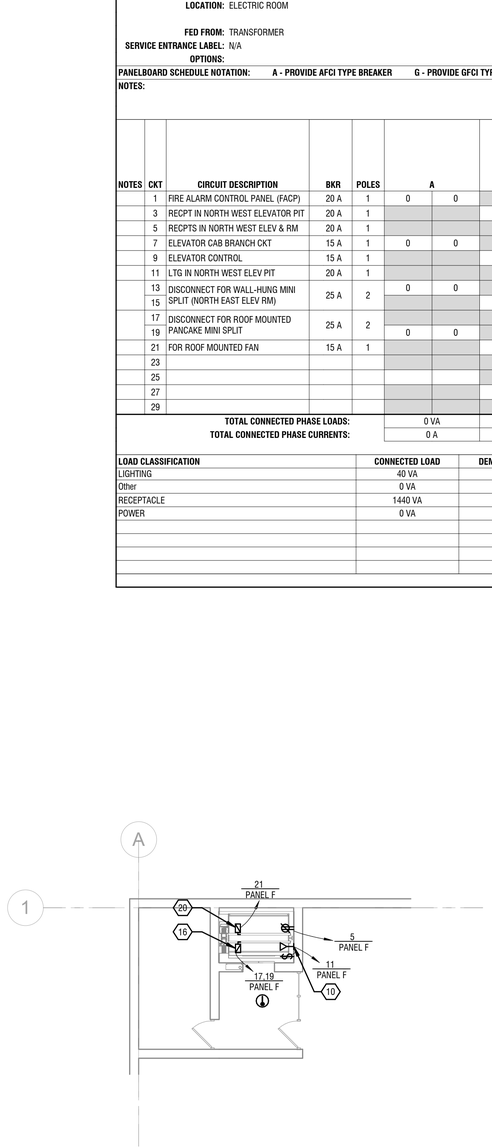
B. PROVIDE DRY CONTACTS IN SMOKE DETECTORS AND WIRE AS REQUIRED TO INTERFACE WITH ELEVATOR CONTROLS FOR RECALL

C. ALTERNATE #5: PROVIDE BRANCH CIRCUIT WIRING REQUIRED FOR KEYED NOTES 1 AND 2

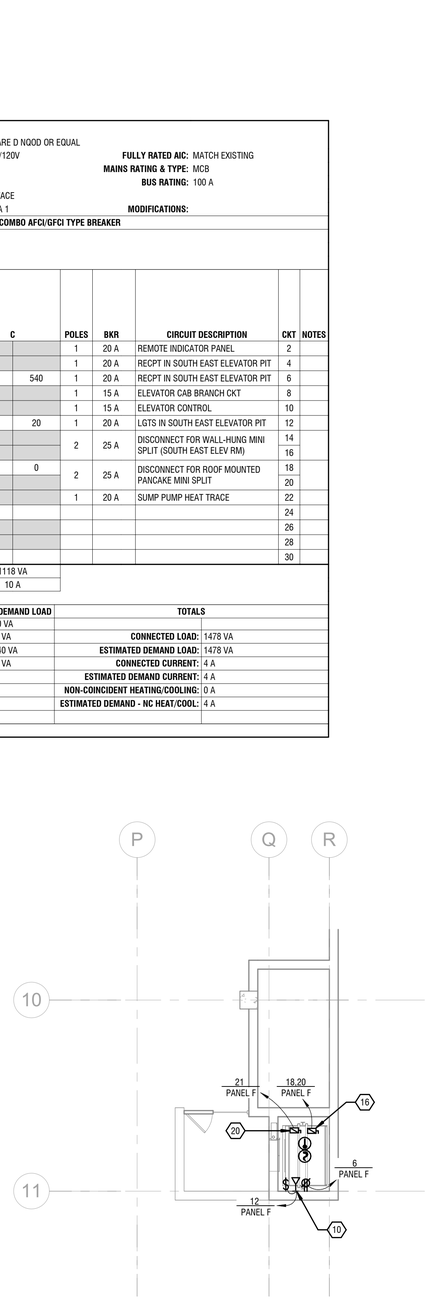
D. ELECTRICAL CONTRACTOR IS RESPONSIBLE FOR ANY CUTTING, PATCHING, ETC. NECCESSARY FOR THE WORK OF THEIR TRADE

KEY NOTES:

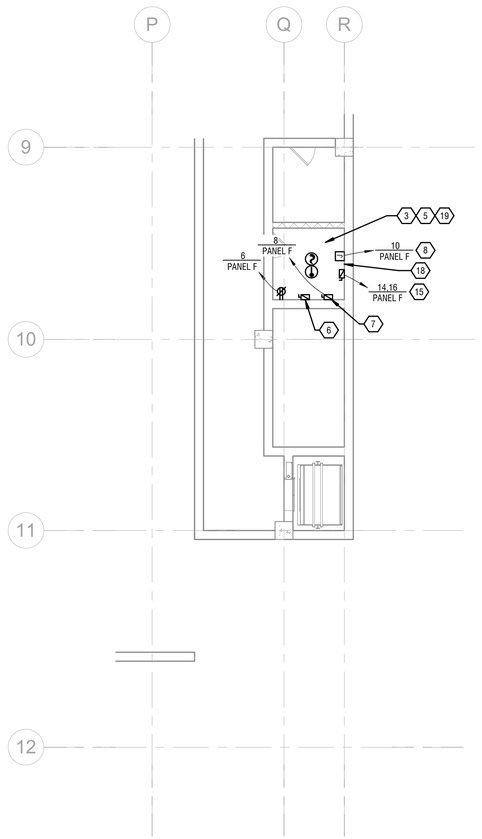
1. PROVIDE 120V/1PH WIRING BACK TO PANEL 'E'. PROVIDE JUNCTION BOX AT BOTH ENDS AND LEAVE AS SPARE FOR FUTURE USE
2. PROVIDE FACP. PANEL TO BE FIRE-LITE ES-50X OR EQUAL
3. DISCONNECT ALL EXISTING ELEVATOR POWER FEEDS AND BRANCH CIRCUITS INCLUDED. REMOVE DISCONNECTS AND WIRING BACK TO SOURCE. DISCONNECT CAB LIGHT FEED AND REMOVE WIRING BACK TO SOURCE. REMOVE CONDUITS AND WIREWAYS TO CLEAR AREA TO FACILITATE NEW EQUIPMENT
4. DISCONNECT EXISTING SUMP PUMP, PIT LIGHT AND RECEPTACLE. REMOVE WIRING BACK TO SOURCE
5. DISCONNECT EXHAUST FAN AND UNIT HEATER BRANCH CIRCUITS AND REMOVE WIRING BACK TO SOURCE
6. PROVIDE 480V/3PH 100A ENCLOSED SHUNT TRIP BREAKER FOR ELEVATOR POWER FEEDS. PROVIDE (4) #6 W/ #8G IN 1" RGS CONDUIT BACK TO EXISTING GEAR AND CONNECT TO EXISTING 100A FUSED DISCONNECT. ELEVATOR 104D FOR BOTH NEW ELEVATORS IS 40HP-480V/55.7 RLA/126A STARTING. PROVIDE DRY CONTACT IN DISCONNECT AND WIRING TO ELEVATOR BATTERY LOWERING UNIT TO INDICATE SWITCH POSITION. SHUNT TRIP TO BE CONTROLLER BY HEAT DETECTORS
7. PROVIDE 120V-1PH 30A DISCONNECT FUSED AT 15A FOR ELEVATOR CAB BRANCH CIRCUIT
8. PROVIDE 120V-1PH 15A BRANCH CIRCUIT FOR ELEVATOR CONTROL
9. SMOKE DETECTOR IN THIS LOCATION IS TYPICAL FOR ALL FLOORS. TYPICAL OF 7 FOR EACH OF THE ELEVATORS
10. PROVIDE ELEVATOR PIT LIGHT AND WET LOCATION SWITCH. LIGHT FIXTURES TO BE DURAGUARD MODEL LV1AQ-F-37-U-4K-L-P, OR EQUAL
11. PROVIDE RECEPTACLE FOR SUMP PUMP
12. EXISTING TRANSFORMER TO REMAIN. PROVIDE ADDITIONAL TAP ON SECONDARY SIDE OF UNIT TO FEED NEW PANEL
13. PROVIDE NEW PANEL "F (ELEV AUX)"
14. EXISTING PANEL "E" TO REMIAN. VERIFY NO OTHER LOADS CONNECTED TO ELEVATOR RELATED BREAKERS. TURN OFF AND MARK AS SPARE IF NO REMAINING LOADS ARE CONNECTED. THE FOLLOWING CIRCUITS ARE INDICATED AS ELEVATOR CIRCUITS:
    - PANEL "E" #22 B CTRL & LGTS
    - PANEL "E" #26 A CTRL & LGTS
    - PANEL "E" #4 B MACH RM, PIT RECPT
    - PANEL "E" #5 C CTRL
    - PANEL "E" #7 SUMP PIT
15. PROVIDE DISCONNECT AND BRANCH CIRCUIT FOR WALL-HUNG MINI SPLIT. UNIT TO BE 208V/1PH/19A MCA/25A MOCP. PROVIDE #14 AWG FROM OUTDOOR UNIT TO THE INDOOR UNIT FOR POWER
16. PROVIDE NEMA 3R DISCONNECT AND BRANCH CIRCUIT FOR ROOF MOUNTED PANCAKE MINI SPLIT. UNIT TO BE 208V/1PH/19A MCA/25A MOCP. PROVIDE #12 AWG FROM OUTDOOR UNIT TO THE INDOOR UNIT FOR POWER
17. PROVIDE REMOTE INDICATOR PANEL/BEACON FOR ELEVATOR SUMP PUMPS. PANEL TO BE APPROX 8" x 6" x 6" BOX TO ACCOMODATE SIGNAL BEACON TO BE EDWARDS SIGNALING 125LEDFA120A, OR EQUAL. PROVIDE RELAYS TO ACTIVATE BEACON ON FAILURE OF EITHER OF THE NEW SUMP PUMPS. PROVIDE CONTROL WIRING FROM SUMP PUMP SYSTEMS BACK TO THIS LOCATION. PROVIDE CONNECTION TO CLOSEST AVAILABLE EXISTING BRANCH CIRCUIT
18. PROVIDE DEDICATED TELEPHONE CONNECTION BACK TO OFFICE. PROVIDE ADDITIONAL RJ45 OUTLET FOR CONNECTION OF THE CONTROLLER TO THE INTERNET
19. REMOVE EXISTING LIGHT FIXTURE AND SWITCH IN MACHINE ROOM. SAVE CIRCUIT FOR RE-USE. PROVIDE NEW SWITCH AND CONNECT TO EXISTING BRANCH CIRCUIT AND NEW LIGHTING FIXTURE. FIXTURE TO BE COLUMBIA LCL4-40ML-EU-ELL14-CSHC-LCLWG4, OR EQUAL (CHAIN HUNG WITH WIREGAURD)
20. PROVIDE NEMA 3R DISCONNECT AND BRANCH CIRCUIT FOR ROOF MOUNTED FAN
21. PROVIDE JUNCTION BOX & BRANCH CIRCUIT WIRING FOR HEAT TRACE FOR SUMP PUMP PIPING



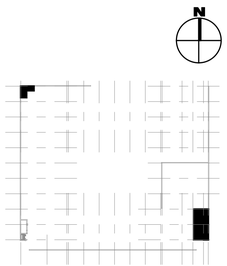
3 E2.1 7TH FLOOR ELECTRICAL PLAN - NORTH ELEV
1/8" = 1'-0"
0' 4' 8' 16'



2 E2.1 7TH FLOOR ELECTRICAL PLAN - SOUTH ELEV
1/8" = 1'-0"
0' 4' 8' 16'



1 E2.1 2ND FLOOR ELECTRICAL PLAN - SOUTH ELEV
1/8" = 1'-0"
0' 4' 8' 16'



KEY PLAN 2ND & 7TH FLR

5/6/2026 8:49:04 AM

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STATE OF NEW YORK · RANDY D. HEARD · 077425 · LICENSED PROFESSIONAL ENGINEER

EXP: 12/31/2026

PROJECT & CLIENT

ELEVATOR MODERNIZATION FOR

CENTERTOWN PARKING GARAGE

101 WEST GRAY STREET
ELMIRA NY

REVISIONS

1	REBID	MAY, 2026

DRAWING TITLE

2ND & 7TH FLOOR ELECTRICAL PLAN

DATE	DRAWN BY
NOVEMBER, 2024	JMG

JOB NO.	DWG. NO.
4062	E2.1