

NORTH (building)

Shepherdstown Opera House RENOVATIONS

131 W. German St.
Shepherdstown
West Virginia

Owner

131 West German Street, LLC

Mech/Elect Engineer

FHC Engineering, PC
4 Weems Lane #277
Winchester, VA 22601
540 247-2939

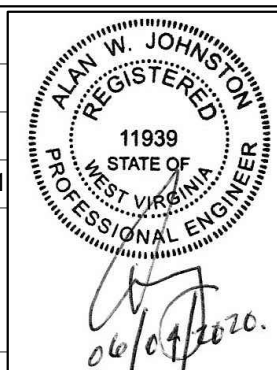
Structural Engineer

Ruckman Engineering, PLC
22-B Ricketts Drive
Winchester, VA 22601

GDA Architecture Planning Interiors Landscape
Grove & Dall'Otto Architects p.l.c. AIA, LEED AP
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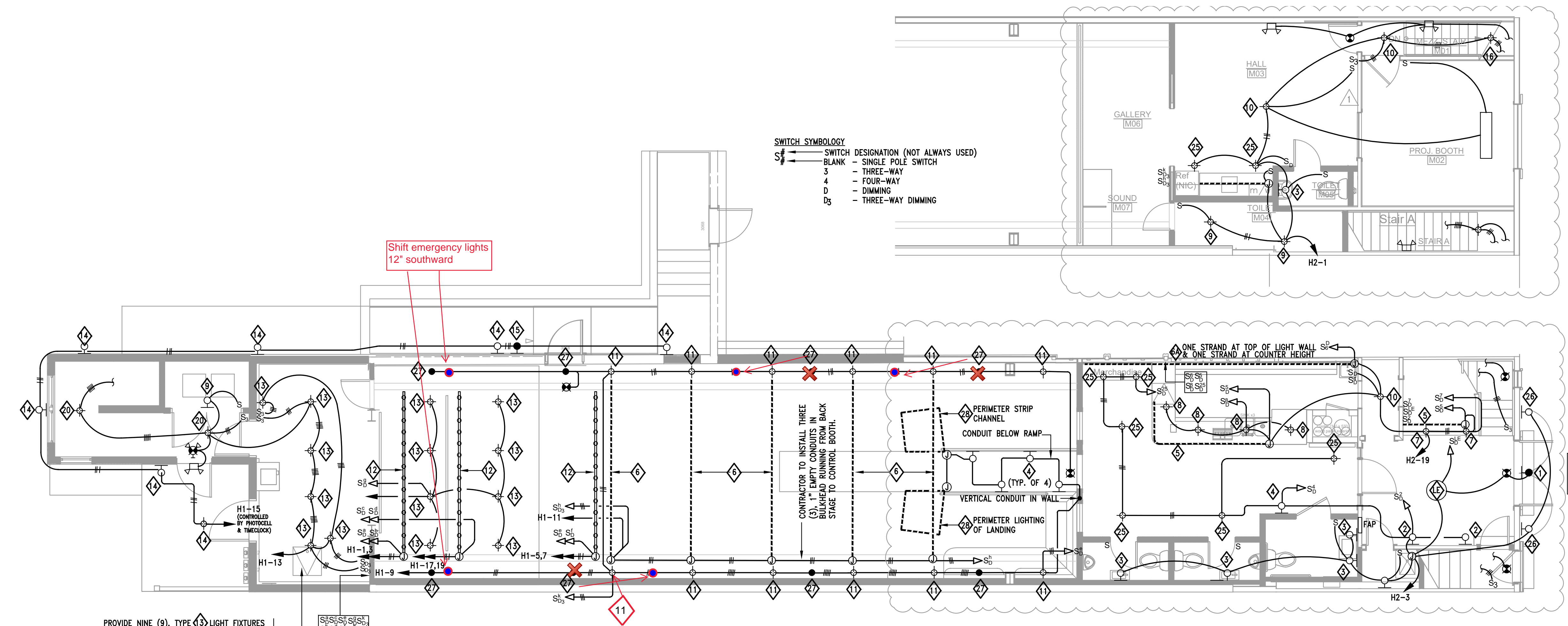
Issue/Revision	Seal
REVISION #1	10.23.20
FOR CONSTRUCTION	10.23.20
REDESIGN REVISIONS	02.23.21
FOR CONSTRUCTION	10.23.20

Drawing Title



MAIN LEVEL & MEZZANINE PLANS

Date: OCTOBER 23, 2020
Scale: As Noted Project Number: 19820
Drawing Number



MAIN LEVEL AND MEZZANINE PLANS - LIGHTING

SCALE: 3/16" = 1'-0"

PROVIDE NINE (9), TYPE 3 LIGHT FIXTURES (FED FROM H1-23) IN CAVITY UNDER STAGE CONTROLLED BY TWO THREE-WAY SWITCHES.

Shift emergency lights 12" southward

SWITCH SYMBOLOLOGY

SWITCH DESIGNATION (NOT ALWAYS USED)

S1 - BLANK - SINGLE POLE SWITCH

3 - THREE-WAY

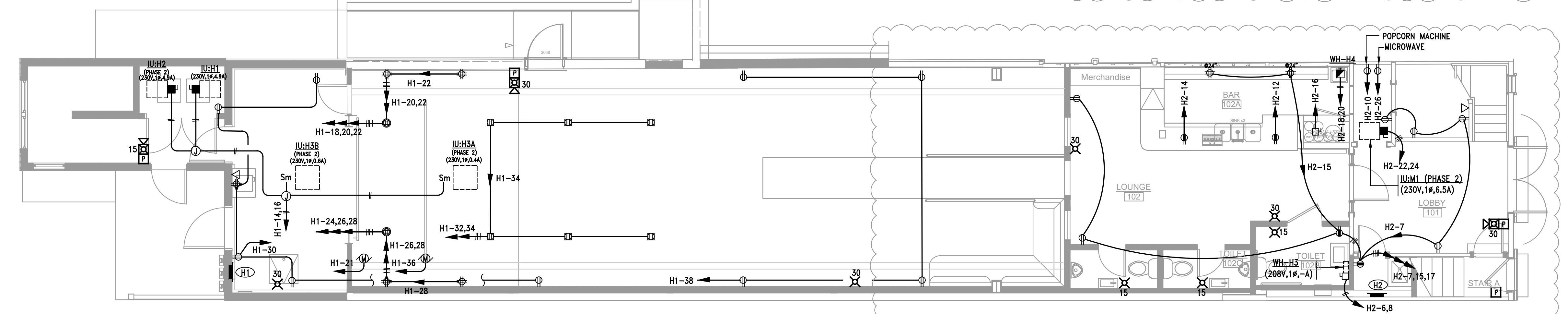
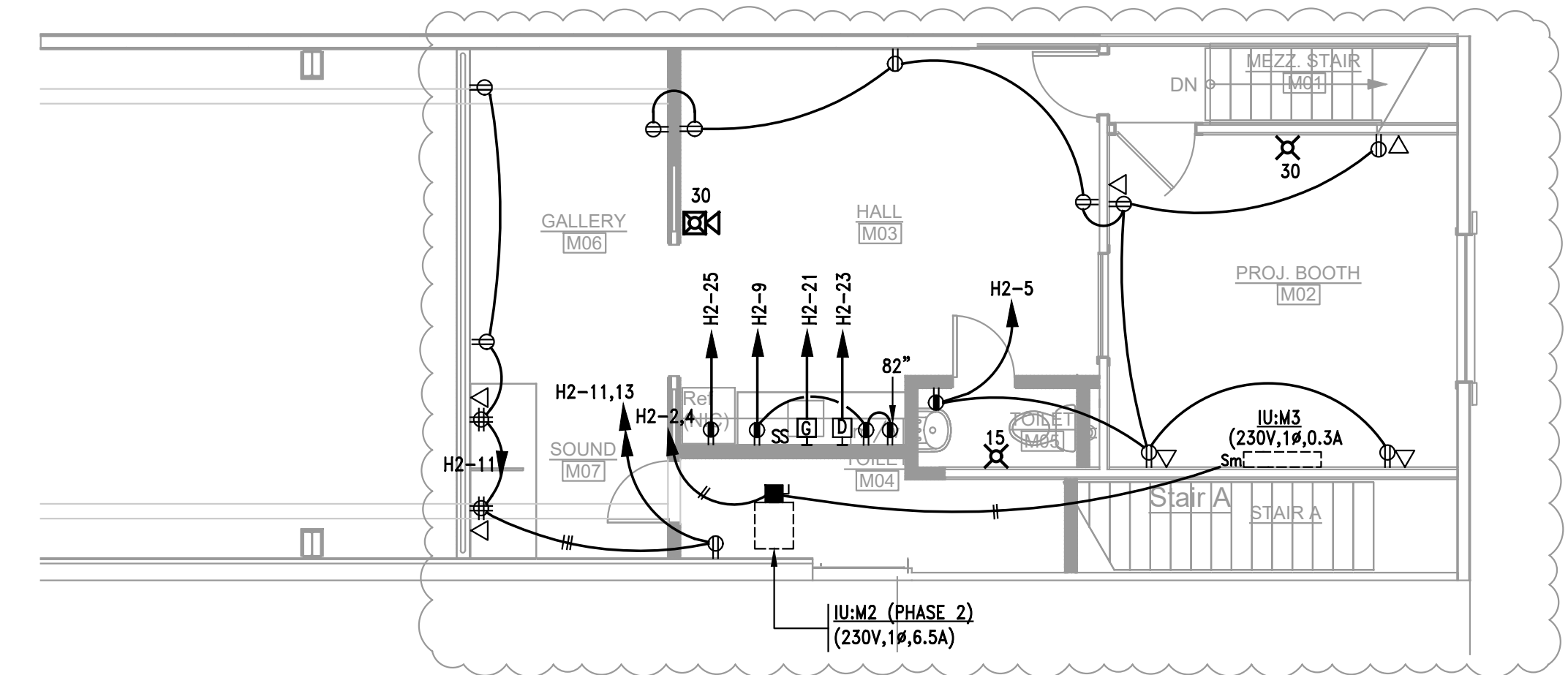
4 - FOUR-WAY

D - DIMMING

D3 - THREE-WAY DIMMING

NOTE: FIXTURE TYPES CONTROLLED BY PHOTOCELL & TIMELOCK.

- PHASING NOTES FOR FIRST FLOOR & MEZZANINE**
1. INSTALLATION OF BRANCH POWER AND LIGHTING CIRCUITS (EXCEPT FOR EMERGENCY EGRESS AND EXIT LIGHTING) INCLUDING CIRCUITS TO THEATRICAL LIGHTING AND ANY OTHER CIRCUITS RUNNING EXTERIOR WALLS OR CEILING BETWEEN THEATER AND APARTMENT SPACES IN PHASE 2.
 2. BRANCH CIRCUIT WIRING FOR IU:H2, IU:H3A AND IU:H3B IN PHASE 2.
 3. BRANCH CIRCUIT WIRING FOR IU:H1 IN PHASE 1.
 4. FEEDERS TO PANELS IN PHASE 1.



MAIN LEVEL AND MEZZANINE PLANS - POWER

SCALE: 3/16" = 1'-0"

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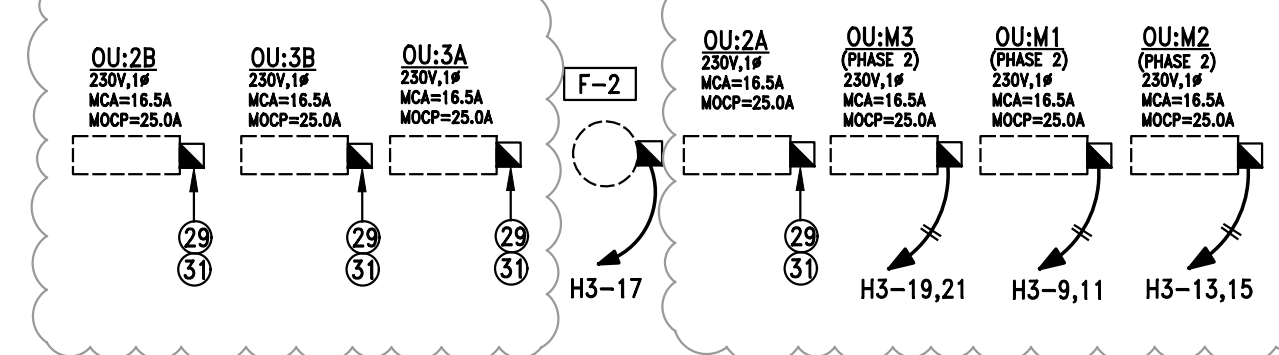
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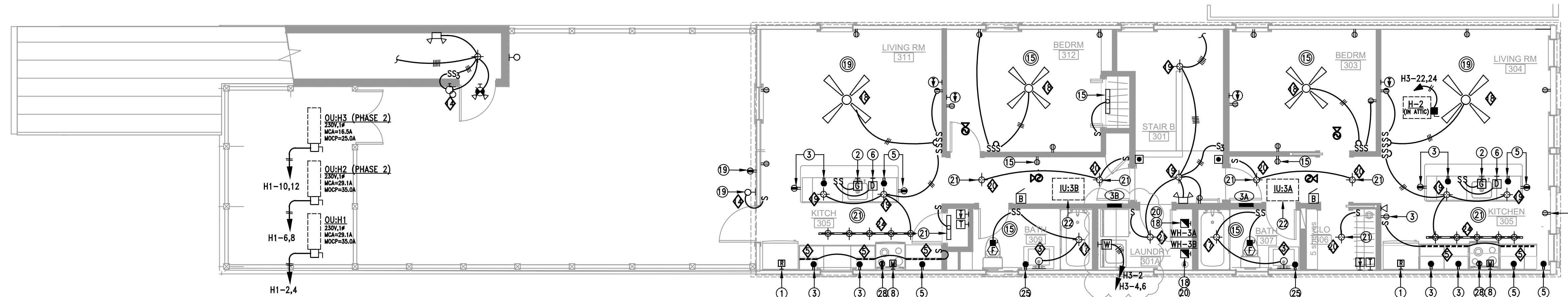
2ND & 3RD FLOOR PLANS

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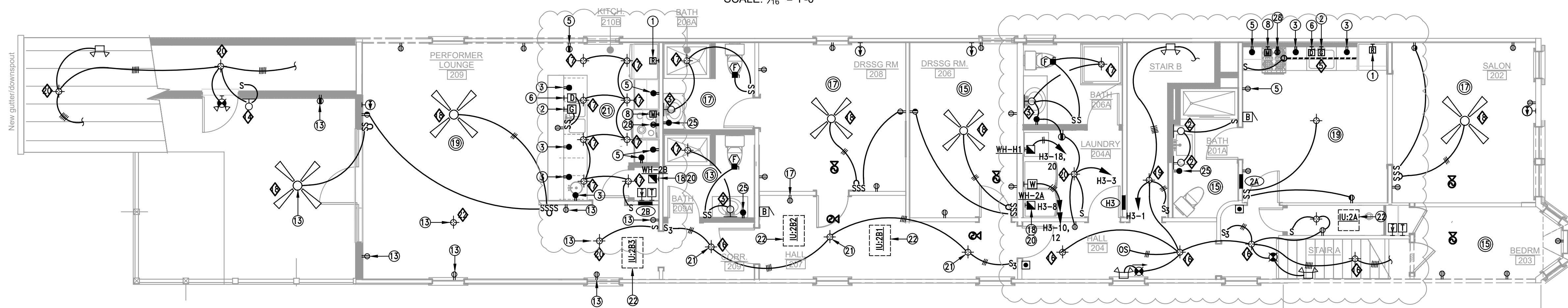
E1.2



ROOF PLAN
SCALE: 3/16" = 1'-0"



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



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

GENERAL SHEET NOTES

- ALL WORK IN APARTMENTS SHALL BE ACCOMPLISHED IN ACCORDANCE WITH THE LATEST EDITION OF NEC CURRENTLY IN FORCE WITHIN THE PROJECT JURISDICTION FOR SPACING OF ALL OUTLETS, AND ALL OTHER RESIDENTIAL REQUIREMENTS.
- ALL BRANCH CIRCUIT WIRING FOR APARTMENTS SHALL BE INSTALLED IN METAL CLAD RACEWAY (MC) WITH SEPERATE GROUND CONDUCTOR. REFER TO LOAD CENTER SCHEDULE FOR WIRE SIZE AND CIRCUIT ASSIGNMENTS.
- CONTRACTOR SHALL PRE-WIRE, SEPARATE HOMERUNS, ALL APARTMENT TV OUTLETS TO MASTER TV OUTLET APARTMENT USING THE CABLE NOTED IN SYMBOLS LIST.
- CONTRACTOR SHALL PRE-WIRE, WITH SEPARATE HOMERUNS, ALL APARTMENT TELEPHONE OUTLETS USING THE CABLE NOTED IN THE SYMBOLS LIST.
- CONTRACTOR MUST TEST ALL PRE-WIRED SYSTEMS BEFORE CLOSING UP WALLS.
- BACK-TO-BACK OUTLETS OF ANY TYPE SHALL NOT BE PERMITTED BETWEEN APARTMENT UNITS.
A. OUTLETS ON THESE WALLS MUST BE SEPARATED A MINIMUM OF 24" TO MAINTAIN FIRE RATING OF THE WALLS.
B. OR OUTLETS SHALL BE WRAPPED WITH UL APPROVED FIRE RATING ASSEMBLIES MATERIAL EQUAL TO 3M FIRE BARRIER PADS.
C. PROVIDE LOWERTS SOUND PADS INSIDE OUTLET BOXES.
- PROVIDE GFI PROTECTED OUTLETS FOR ENTIRE KITCHEN
- PROVIDE GFI OUTLET IN WEATHERPROOF BOX (P&S WP-26 COVERPLATE) FOR TERRACE/BALCONIES.
- ALL APARTMENT SMOKE DETECTORS SHALL BE CIRCUITED TOGETHER AND EXTENDED TO THE DESIGNATED CIRCUIT.
- IN ACCORDANCE WITH NEC PARAGRAPHS 422-D, 440-12 EXCEPTIONS 430-102 THE INTENDED DISCONNECT FOR AIR CONDITIONING UNITS IS A KEY LOCKABLE CIRCUIT BREAKER OR HANDLE LOCKS IN THE OFF POSITION UTILIZING A KEY CONTROLLED ONLY BY BUILDING MANAGEMENT.
- WIRING DEVICES - PRIOR TO ORDERING, THE CONTRACTOR SHALL RE-VERIFY STYLE, COLOR, AND PLATE COVERS WITH ARCHITECT. PRIOR TO LOCATING SWITCHES, RE-VERIFY ALL LOCATIONS WITH THE ARCHITECT.
- REFER TO ARCHITECTURAL PLANS FOR THICKNESS OF WALL TO ACCOMMODATE RECESSED LOAD CENTER.
- CONTRACTOR SHALL PROVIDE "ARC FAULT" TYPE CIRCUIT BREAKERS FOR ALL BRANCH CIRCUITS SERVING RECEPTACLES IN BEDROOMS.

APARTMENT UNIT SYMBOLS LIST

SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
	FLUSH CEILING MOUNTED LIGHT FIXTURE		MICROWAVE HOOD COMBINATION (2P,3W,20A,125V) MAX. 1480W 120V (EXTEND TO CIRCUIT NO. 8) MOUNTED ABOVE RANGE.		FUSED SAFETY SWITCH - IF FIELD FURNISHED AND INSTALLED, DO NOT MOUNT ON EQUIPMENT, MOUNT ON UNSTRUCT ATTACHED TO ROOF.
	WALL-MOUNTED LIGHT FIXTURE		WALL-MOUNTED SINGLE RECEPTACLE (2P, 3W, 20A, 125V) FOR REFRIGERATOR (EXTEND TO CIRCUIT NO. 1) - MOUNT 48" AFF.		SMOKE DETECTOR WITH AUDIBLE ALARM (APARTMENTS ONLY), SURFACE MOUNTED. A. UNIT SHALL HAVE 120V POWER SUPPLY (CIRCUIT #25) WITH BATTERY BACK-UP. B. UNITS LOCATED IN AREAS WITHOUT DROPPED CEILING SHALL BE WALL MOUNTED A MAXIMUM OF 12" BELOW FINISHED CEILING. C. ALL SMOKE DETECTORS SHALL BE INTERCONNECTED TO SIMULTANEOUSLY ALARM WHEN ANY SINGLE DETECTOR SENSES SMOKE.
	WALL MOUNTED CLOSET LIGHT (MOUNT ABOVE DOOR HEADER INSIDE OF CLOSET)		PROVIDE FLUSH MOUNTED CONNECTION BOX FOR WASHING MACHINE AND DRYER (INCLUDING HOT AND COLD WATER CONNECTIONS WITH SHUT-OFF VALVES) COORDINATE WITH PLUMBING INSTALLER PROVIDE SINGLE 2P,3W,20A,125V RECEPTACLE FOR WASHER - EXTEND 2#12-G TO UNITS LOAD CENTER PROVIDE SINGLE 3P,4W,30A,250V RECEPTACLE FOR DRYER - EXTEND 3#10-G TO UNITS LOAD CENTER		APARTMENT LOAD CENTER (DEPTH OF PANEL CAN NOT EXCEED 3 7/8")
	SINGLE POLE FLUSH TUMBLER SWITCH (MOUNT 42" AFF/UON).		FLUSH MOUNTED JUNCTION BOX FOR ELECTRIC WATER HEATER		RECESSED TOILET EXHAUST FAN. CONNECT TO CIRCUIT.
	THREE-WAY FLUSH TUMBLER SWITCH (MOUNT 42" AFF/UON).		MASTER APARTMENT TELEVISION SYSTEM OUTLET (MOUNTED 12" ABOVE CLOSET SHELF). A. PROVIDE 6"x6"x2-1/2" FLUSH-MOUNTED BOX WITH TWO GANG COVER PLATES.		DOOR BELL (PUSHBUTTON) - INTERCONNECT WITH CHIME.
	600 WATT DIMMER SWITCH (MOUNT 42" AFF UON) LIGHTTOLIER TOGGLE STYLE TYPE MATCHING SWITCH STYLE.		TELEVISION SYSTEM OUTLET (SINGLE GANG PLASTER RING WITH WHITE COVER PLATE AND TV/CABLE SYSTEM JACK INSTALLED (MOUNT 18" AFF UON). A. PROVIDE RG6QUAD 90% SHIELDED TYPE COAXIAL CABLE FROM OUTLET TO CONDOMINIUM MASTER TELEVISION OUTLET. B. COORDINATE CABLE TYPE WITH CABLE TV SERVICE PROVIDER. C. PROVIDE FIRE RATED BOX WHERE REQUIRED.		GENERAL ROOM CIRCUIT DESIGNATION - SPECIFIC CIRCUIT DESIGNATIONS SHALL PREVAIL
	WALL-MOUNTED DUPLEX RECEPTACLE (2P, 3W, 15A, 125V) - MOUNT 18" AFF/UON.		MASTER APARTMENT SYSTEM TELEPHONE OUTLET A. PROVIDE 6"x6"x2-1/2" FLUSH-MOUNTED BOX WITH TWO GANG COVER PLATE.		SPECIFIC CIRCUIT DESIGNATION. IF NO SPECIFIC CIRCUIT IS INDICATED FOR LIGHTING AND/OR RECEPTACLES, CIRCUIT TO THE GENERAL ROOM CIRCUIT.
	WALL-MOUNTED DUPLEX RECEPTACLE (2P, 3W, 15A, 125V) - TOP HALF SWITCHED (MOUNT 18" AFF/UON).		TELEPHONE SYSTEM OUTLET - MOUNT 18" AFF GENERAL A. APARTMENT OUTLETS - SINGLE GANG PLASTER RING WITH WHITE TELEPHONE OUTLET COVERPLATE. C. PROVIDE FIRE RATED BOX AT PARTY WALLS OR UTILIZE FIRE RATED WRAP ASSEMBLIES BY 3M.		WALL MOUNTED DOORBELL/CHIME INTERCONNECTED WITH DOORBELL PUSHBUTTON. CONNECT WITH GENERAL LIGHTING CIRCUIT #21.
	WALL-MOUNTED DUPLEX (2P, 3W, 20A, 125V GFI) BATHROOM/APPLIANCE CIRCUIT - MOUNT 6" ABOVE COUNTERS (KITCHEN/BATHROOMS) 18" AFF OTHER AREAS EXTEND TO CIRCUITS NOTED.		FLUSH-MOUNTED JUNCTION BOX FOR DISPOSAL, CONTROLLED BY HORIZONTALLY MOUNTED FLUSH TUMBLER SWITCH (EXTEND TO CIRCUIT No.2) MOUNT 24" AFF-LOCATE UNDER SINK.		FLUSH CEILING MOUNTED JUNCTION BOX FOR FUTURE COMBINATION FAN/LIGHT UNIT.
	WALL-MOUNTED DUPLEX (2P, 3W, 15A, 125V) OUTLET TO BE GFCI TYPE WITH HINGED WEATHERPROOF COVERPLATE.				
	RANGE RECEPTACLE (3P, 4W, 50A, 125/250V) NEMA 14-50R WITH 50A, 2P CIRCUIT BREAKER EXTEND TO CIRCUIT No.28 AND 30.				
	FLUSH-MOUNTED SINGLE RECEPTACLE (2P,3W,20V,125V) FOR DISHWASHER (EXTEND TO CIRCUIT NO. 6). PROVIDE MATCHING PLUG, PROVIDE CONNECTION TO DISHWASHER FOLLOWING DISHWASHER MANUFACTURER'S SPECIFICATIONS TO ASSURE INTEGRITY OF UL LISTING. COORDINATE PLUG INCLUSION WITH SUPPLIER OF DISHWASHER - MOUNT 24" A.F.F. - LOCATE BELOW SINK.				

RESIDENTIAL LOAD CENTER													APT. 2B	
VOLTAGE	PHASE	WIRE	MCB (A)	MLO (A)	AIC	MOUNTING	MANUFAC.	MDL #	DWG REF	TYPE LEGEND			REMARKS	

RESIDENTIAL LOAD CENTER													APT. 2A	
VOLTAGE	PHASE	WIRE	MCB (A)	MLO (A)	AIC	MOUNTING	MANUFAC.	MDL #	DWG REF	TYPE LEGEND			REMARKS	

RESIDENTIAL LOAD CENTER													APT. 3B	
VOLTAGE	PHASE	WIRE	MCB (A)	MLO (A)	AIC	MOUNTING	MANUFAC.	MDL #	DWG REF	TYPE LEGEND			REMARKS	

RESIDENTIAL LOAD CENTER													APT. 3A	
VOLTAGE	PHASE	WIRE	MCB (A)	MLO (A)	AIC	MOUNTING	MANUFAC.	MDL #	DWG REF	TYPE LEGEND			REMARKS	

GENERAL LIGHTING LOAD (AREA X 3 WATTS/SF)	= 3,275 VA	1ST 10 KVA @ 100%	= 10,000 VA
SMALL APPLIANCE LOAD (TWO, 20A CIRCUITS)	= 3,000 VA	REMAINDER OF LOAD @ 40%	= 4,466 VA
RANGE	= 9,600 VA	HEAT PUMP	= 500 VA
WATER HEATER	= 2,500 VA	TOTAL LOAD	= 19,466 VA
DISHWASHER	= 1,200 VA		
DISPOSAL (3/4HP)	= 1,500 VA		
CLOTHES DRYER	= 0 VA		
CLOTHES WASHER	= 0 VA		
TOTAL	= 21,165 VA	94 AMPS	

GENERAL LIGHTING LOAD (AREA X 3 WATTS/SF)	= 1,650 VA	1ST 10 KVA @ 100%	= 10,000 VA
SMALL APPLIANCE LOAD (TWO, 20A CIRCUITS)	= 3,000 VA	REMAINDER OF LOAD @ 40%	= 3,816 VA
RANGE	= 9,600 VA	HEAT PUMP	= 500 VA
WATER HEATER	= 2,500 VA	TOTAL LOAD	= 18,816 VA
DISHWASHER	= 1,200 VA		
DISPOSAL (3/4HP)	= 1,500 VA		
CLOTHES DRYER	= 0 VA		
CLOTHES WASHER	= 0 VA		
TOTAL	= 19,640 VA	90 AMPS	

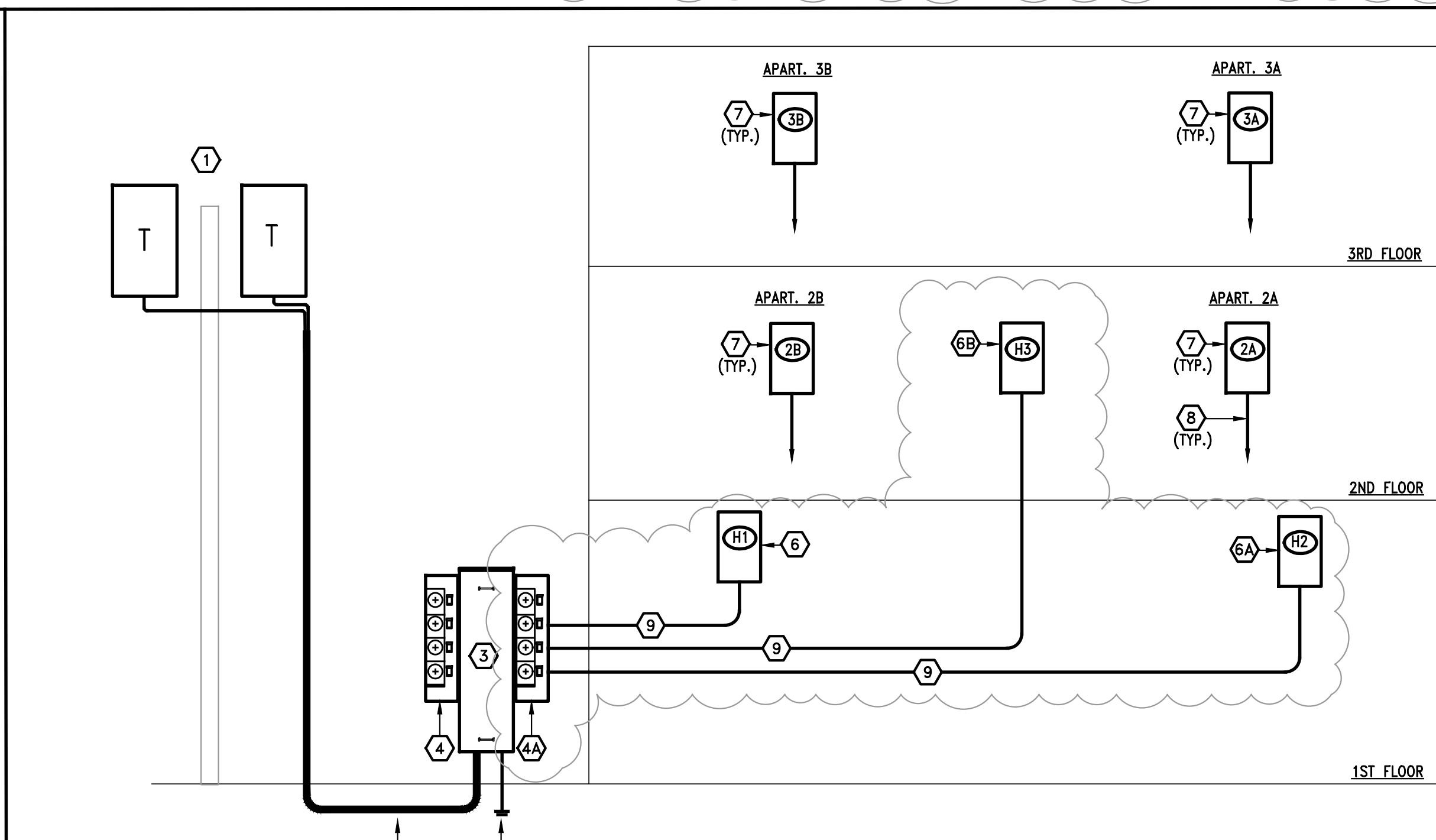
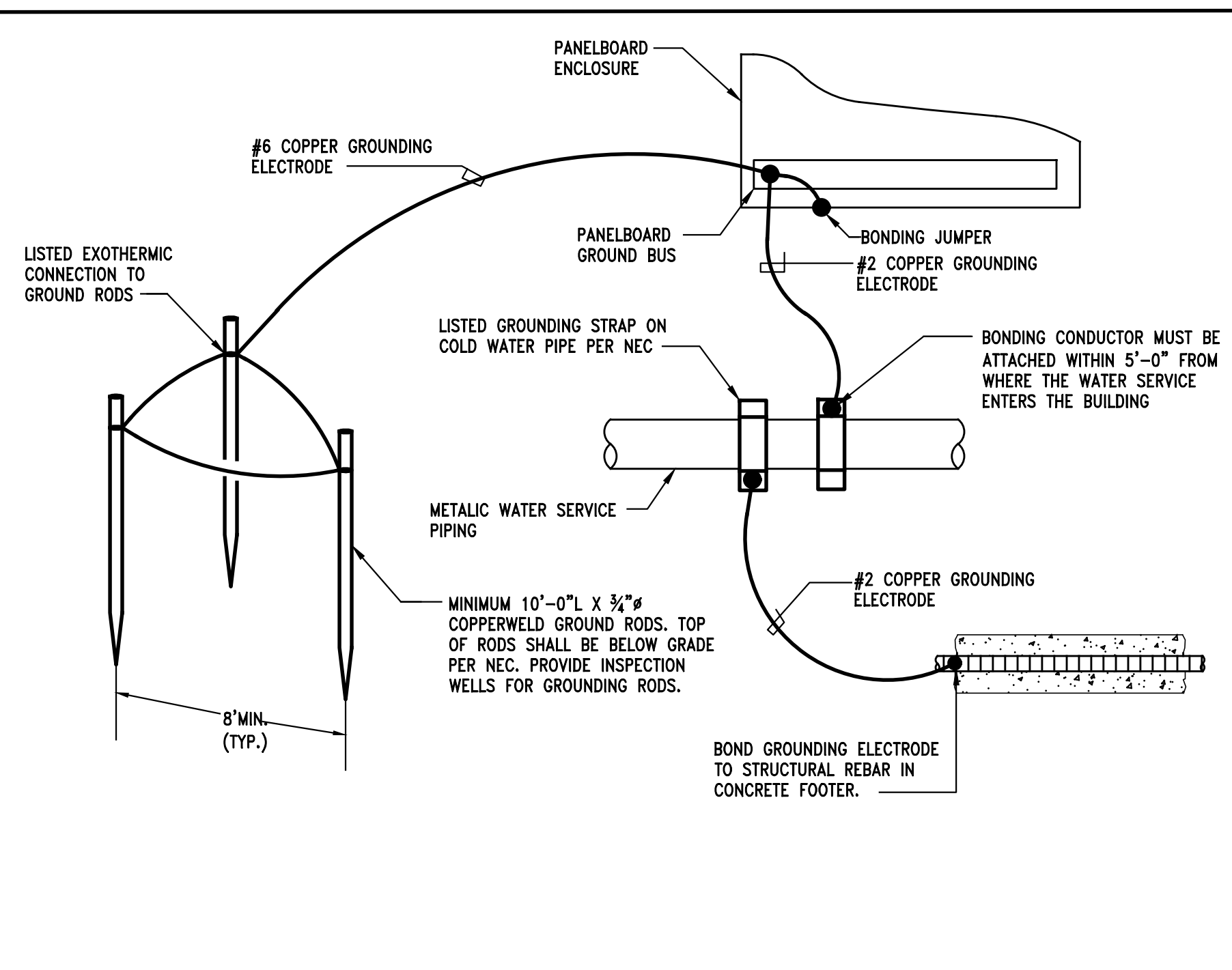
GENERAL LIGHTING LOAD (AREA X 3 WATTS/SF)	= 1,890 VA	1ST 10 KVA @ 100%	= 10,000 VA
SMALL APPLIANCE LOAD (TWO, 20A CIRCUITS)	= 3,000 VA	REMAINDER OF LOAD @ 40%	= 3,912 VA
RANGE	= 9,600 VA	HEAT PUMP	= 500 VA
WATER HEATER	= 2,500 VA	TOTAL LOAD	= 18,912 VA
DISHWASHER	= 1,200 VA		
DISPOSAL (3/4HP)	= 1,500 VA		
CLOTHES DRYER	= 0 VA		
CLOTHES WASHER	= 0 VA		
TOTAL	= 19,780 VA	91 AMPS	

GENERAL LIGHTING LOAD (AREA X 3 WATTS/SF)	= 1,740 VA	1ST 10 KVA @ 100%	= 10,000 VA
SMALL APPLIANCE LOAD (TWO, 20A CIRCUITS)	= 3,000 VA	REMAINDER OF LOAD @ 40%	= 3,852 VA
RANGE	= 9,600 VA	HEAT PUMP	= 500 VA
WATER HEATER	= 2,500 VA	TOTAL LOAD	= 18,592 VA
DISHWASHER	= 1,200 VA		
DISPOSAL (3/4HP)	= 1,500 VA		
CLOTHES DRYER	= 0 VA		
CLOTHES WASHER	= 0 VA		
TOTAL	= 19,630 VA	91 AMPS	

PANELBOARD SCHEDULE													H3	
VOLTAGE	PHASE	WIRE	MCB (A)	MLO (A)	AIC	MOUNTING	MANUFAC.	MDL #	DWG REF	TYPE LEGEND			REMARKS	

PANELBOARD SCHEDULE													H2	
VOLTAGE	PHASE	WIRE	MCB (A)	MLO (A)	AIC	MOUNTING	MANUFAC.	MDL #	DWG REF	TYPE LEGEND			REMARKS	

PANELBOARD SCHEDULE													H1	
VOLTAGE	PHASE	WIRE	MCB (A)	MLO (A)	AIC	MOUNTING	MANUFAC.	MDL #	DWG REF	TYPE LEGEND			REMARKS	



POWER RISER KEYED SHEET NOTES

- UTILITY COMPANY POLE MOUNTED TRANSFORMER(S).
- SERVICE LATERAL CONDUITS - CONTRACTOR SHALL PROVIDE ALL NECESSARY EXCAVATING AND BACKFILL AND INSTALL SERVICE LATERAL CONDUITS (FOUR 3" SCHEDULE 40 PVC FOR PRICING PURPOSES ONLY). THE UTILITY COMPANY WILL SPECIFY THE ACTUAL TYPE, QUANTITY AND SIZE OF THE CONDUITS TO BE INSTALLED. THE CONTRACTOR SHALL INSTALL A 1/2" DIAMETER, NYLON OR POLYPROPYLENE PULLING ROPE IN EACH CONDUIT FOR THE UTILITY COMPANY'S USE IN INSTALLING THE CONDUITS.
- MAIN SWITCHING DEVICE: 240V/120VAC, 800A, 1# INCOMING AND 1# OUTGOING W/ MAIN FUSIBLE SWITCHES - SQUARE D MODEL EZM1800SFU OR APPROVED EQUAL.
- METER STACK: 120/240V, 1# 3W, 10K AIC RATING, 42 POLE, MLO, HOUSE PANEL "H1" - SQUARE D OR APPROVED EQUAL.
- TO SERVICE GROUND - SEE DETAIL THIS SHEET.
- METER STACK: 120/240V, 1# 3W, 10K AIC RATING, 42 POLE, MLO, HOUSE PANEL "H2" - SQUARE D OR APPROVED EQUAL.
- METER STACK: 120/240V, 1# 3W, 10K AIC RATING, 24 POLE, MLO, HOUSE PANEL "H3" - SQUARE D OR APPROVED EQUAL.
- APARTMENT UNIT LOAD CENTER - 100A, 120/240V, 1# 3W, 10K AIC RATING, 36 POLE, MCB - SQUARE D OR APPROVED EQUAL.
- APARTMENT UNIT LOAD CENTER FEEDER - ONE SET OF (3) #2 + (1) #8 GND. IN 1-1/2" CONDUIT.
- HOUSE PANEL FEEDER - ONE SET OF (3) #4/0 + (1) #2 GND. IN 2-1/2" CONDUIT.
- NOT USED

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