LHA No: IFB2024-5 CONCORD RIVER MILL ELDERLY HOUSING GENERATOR UPGRADE for Lowell Housing Authority 50 Stackpole Street, Lowell, MA 01850



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CONSULTANTS

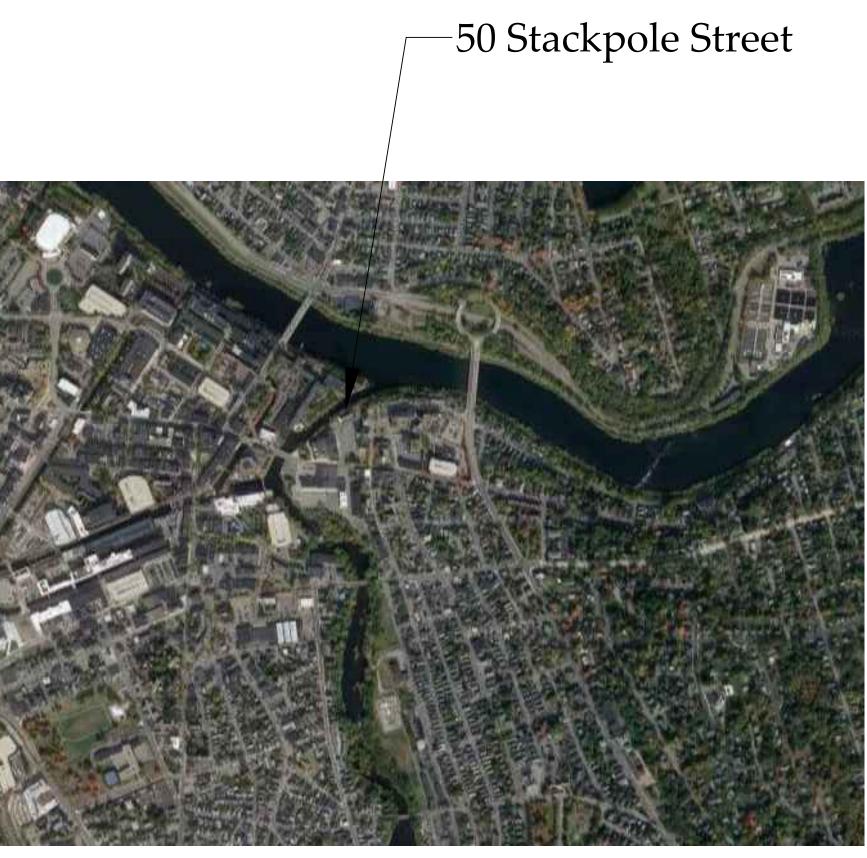
DRAWING LIST

P1.0	PLUMBING - LEGEND, DEMO, NE
M1.0	MECHANICAL - LEGEND, NOTES
E0.1	ELECTRICAL - SYMBOLS AND SCI
E1.0	ELECTRICAL - FLOOR PLANS



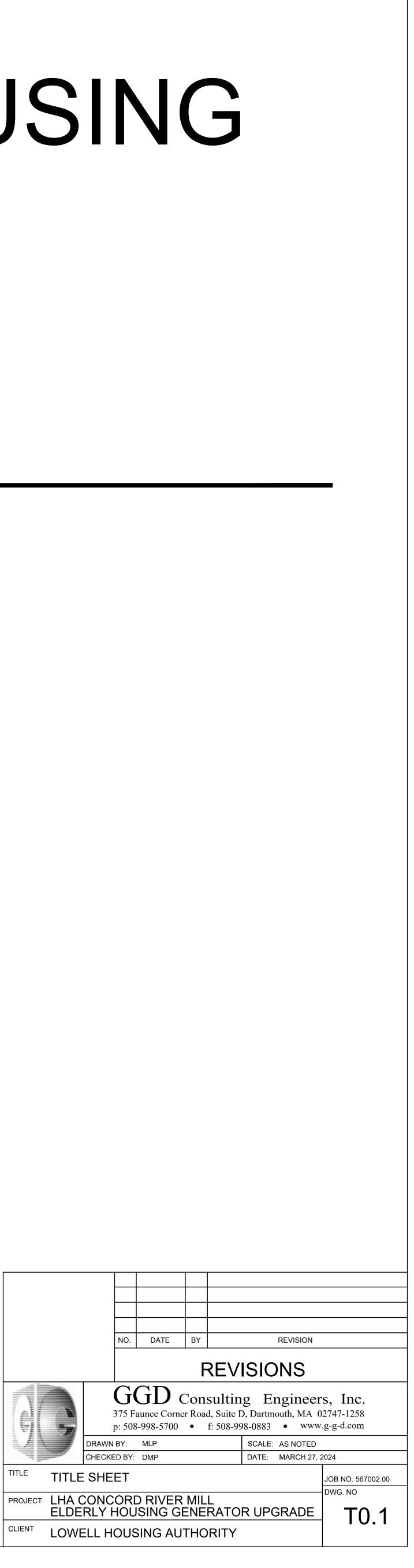
EW WORK, DETAILS AND FLOOR PLANS CHEDULES

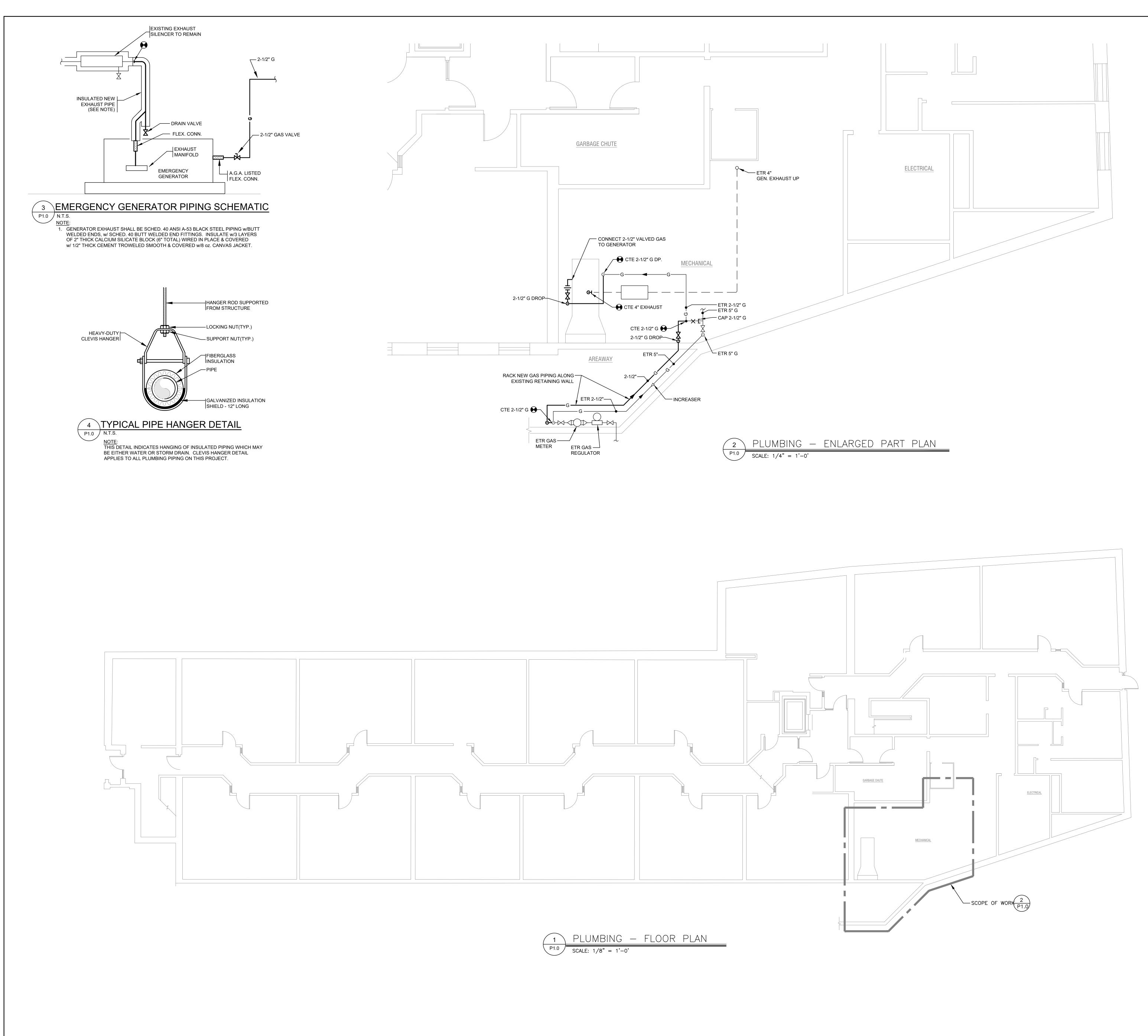
Date: March 27, 2024

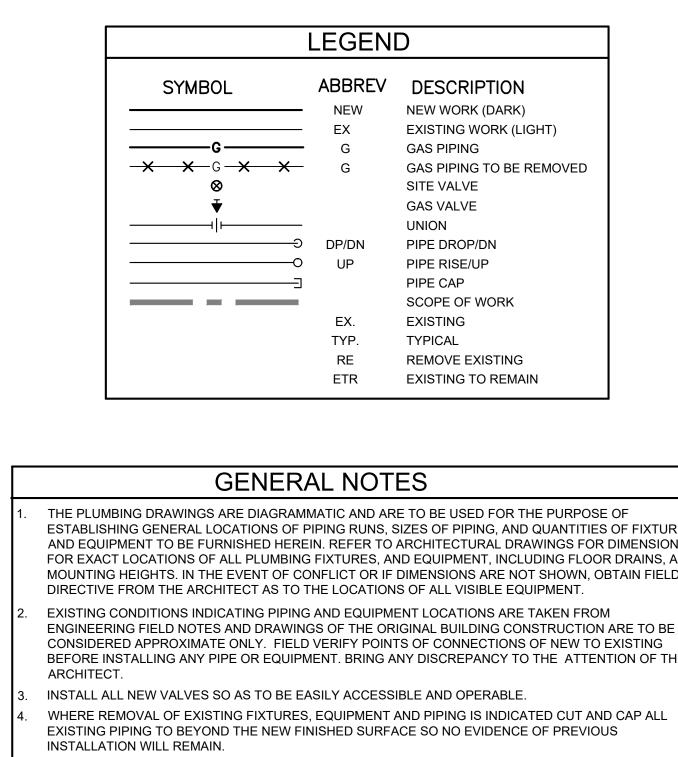


LOCUS PLAN









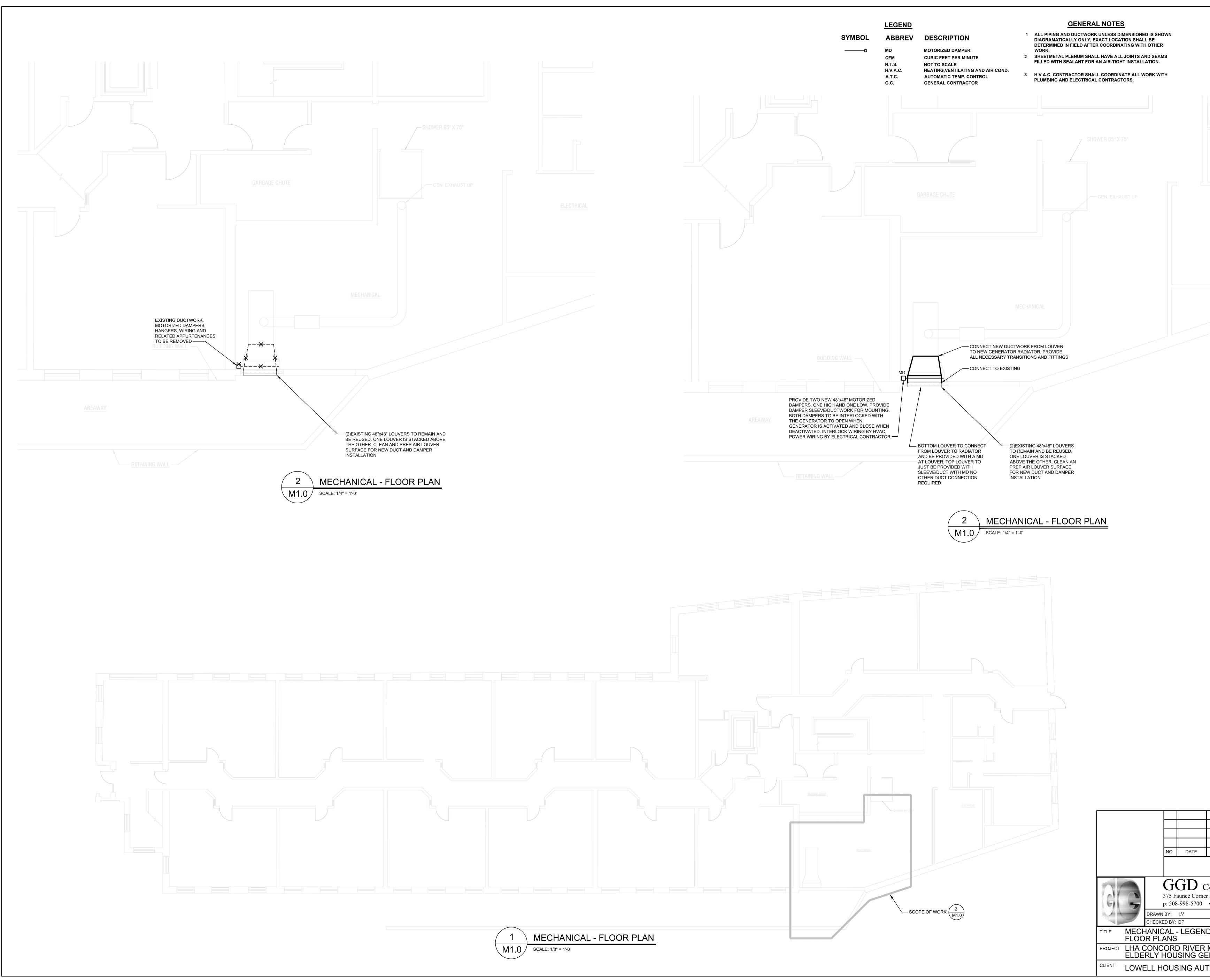
MAINTAIN PLUMBING SYSTEMS IN OTHER BUILDING AREAS AT ALL TIMES DURING THE CONSTRUCTION. REFER TO PHASING PLANS AND SPECIFICATIONS ON THE ARCHITECT'S DRAWINGS & SPECIFICATIONS.

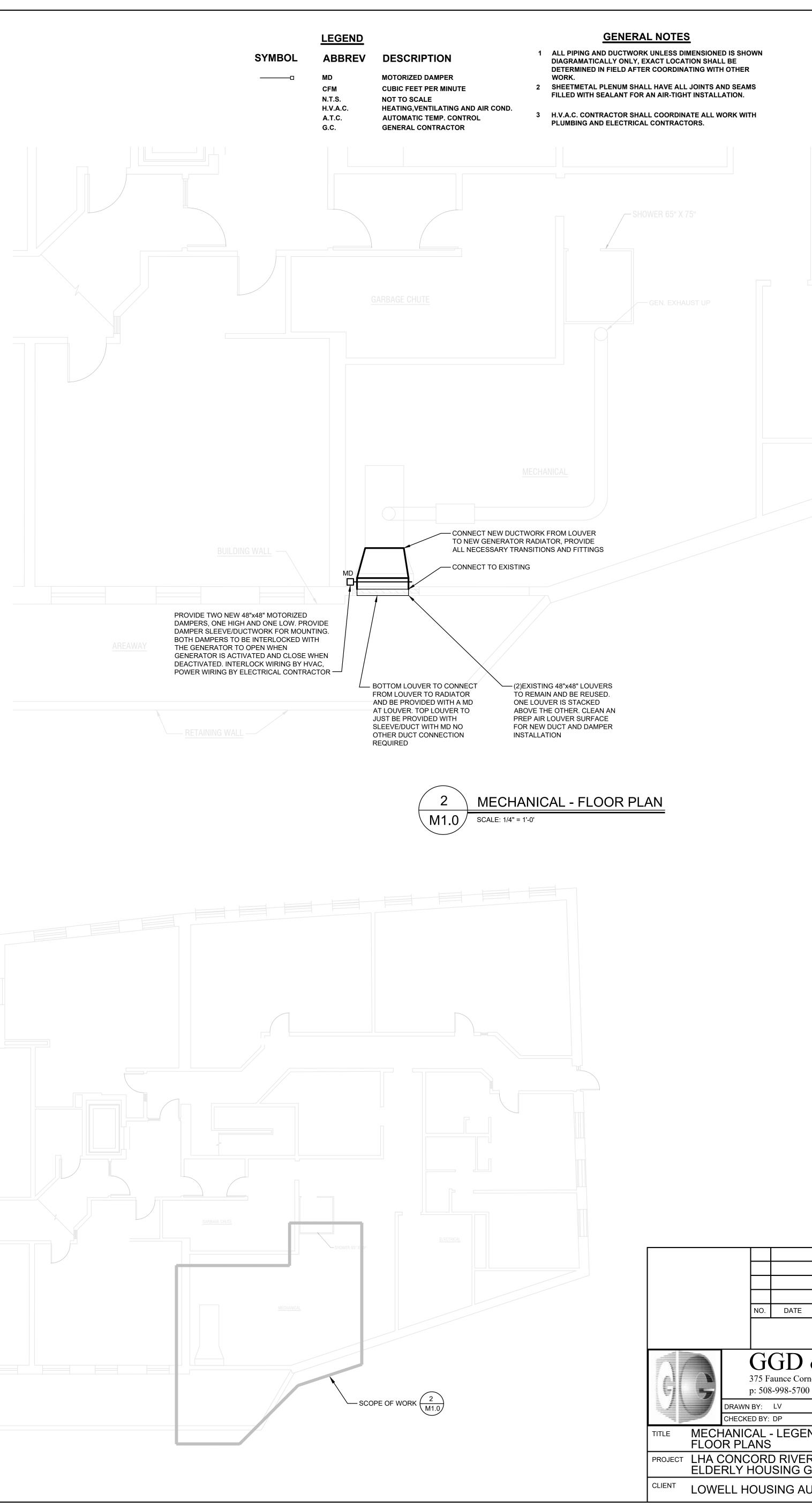


SEND				
	RECORDINION			
REV	DESCRIPTION			
W	NEW WORK (DARK)			
	EXISTING WORK (LIGHT)			
	GAS PIPING			
	GAS PIPING TO BE REMOVED			
	SITE VALVE			
	GAS VALVE			
	UNION			
ON	PIPE DROP/DN			
0	PIPE RISE/UP			
	PIPE CAP			
	SCOPE OF WORK			
, 	EXISTING			
.	TYPICAL			
Ξ	REMOVE EXISTING			
R	EXISTING TO REMAIN			

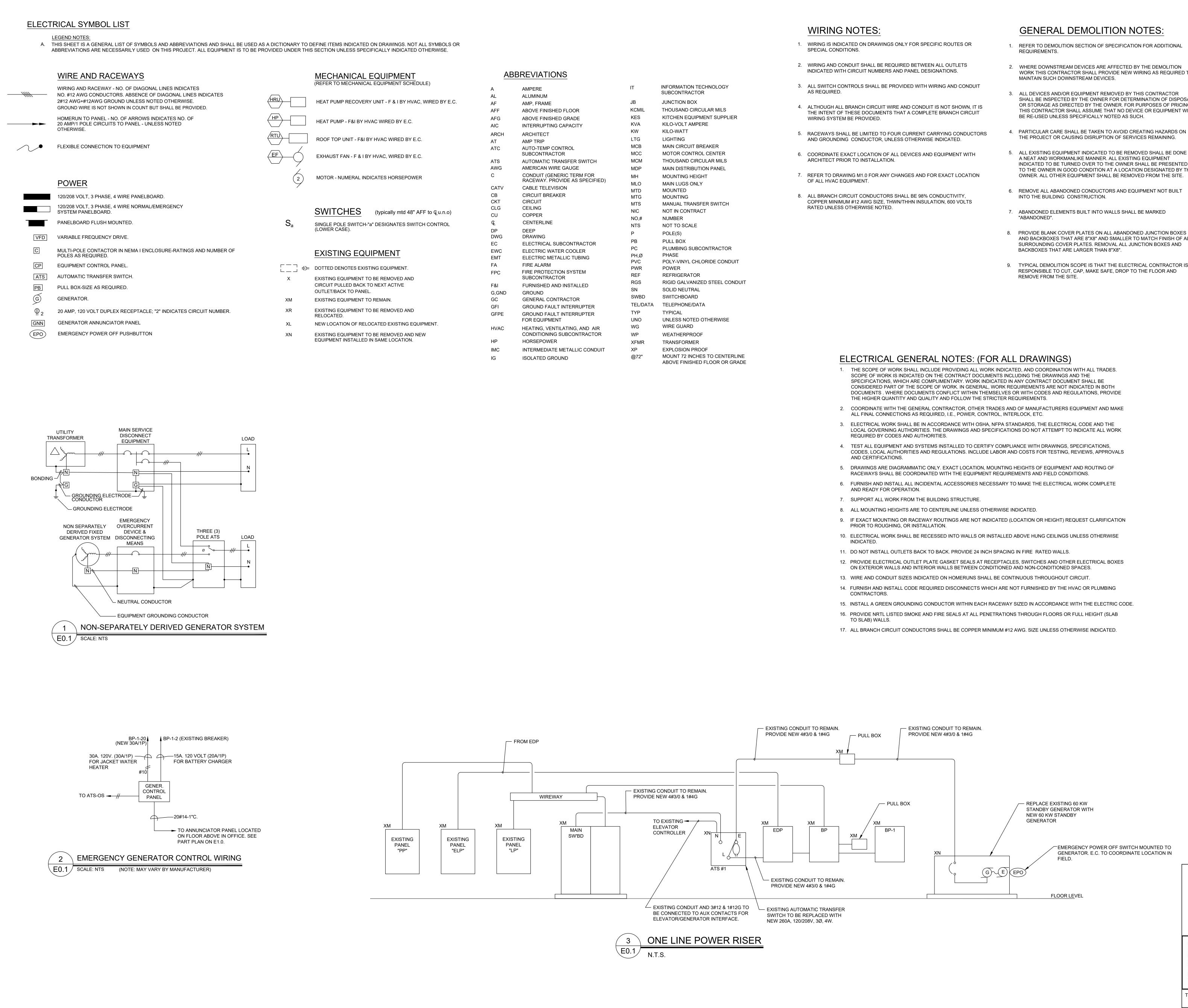
ESTABLISHING GENERAL LOCATIONS OF PIPING RUNS, SIZES OF PIPING, AND QUANTITIES OF FIXTURES AND EQUIPMENT TO BE FURNISHED HEREIN. REFER TO ARCHITECTURAL DRAWINGS FOR DIMENSIONS FOR EXACT LOCATIONS OF ALL PLUMBING FIXTURES, AND EQUIPMENT, INCLUDING FLOOR DRAINS, AND MOUNTING HEIGHTS. IN THE EVENT OF CONFLICT OR IF DIMENSIONS ARE NOT SHOWN, OBTAIN FIELD ENGINEERING FIELD NOTES AND DRAWINGS OF THE ORIGINAL BUILDING CONSTRUCTION ARE TO BE BEFORE INSTALLING ANY PIPE OR EQUIPMENT. BRING ANY DISCREPANCY TO THE ATTENTION OF THE

ΒY		REVISION				
F	REV	ISIONS				
r Road	Consulting Engineers, Inc. Road, Suite D, Dartmouth, MA 02747-1258 f: 508-998-0883 • www.g-g-d.com					
		SCALE: AS NOTED				
		DATE: MARCH 27, 2	2024			
ANS			JOB NO. 567002.00			
MILL ENERATOR UPGRADE THORITY			DWG. NO P1.0			





BY REVISION					
REVISIONS					
Consulting Engineer					
r Road, Suite D, Dartmouth, MA 0 • f: 508-998-0883 • www	2747-1258 .g-g-d.com				
SCALE: AS NOTED	2024				
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1.	WIRING IS INDICA
	SPECIAL CONDITION

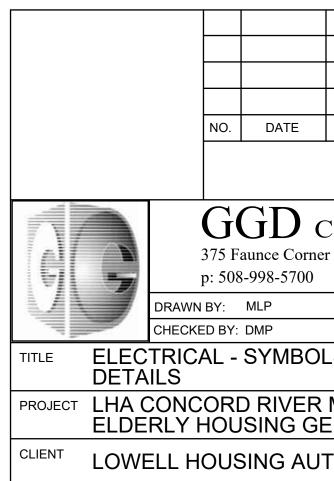
A AUPERE ALL ALLIMINUM AL ALLIMINUM AF AUPERE JB VIAC, WIRED BY E.C. AF AMP, FRAME JB JJ AFF ABOVE FINISHED FLOOR KCMIL F&I BY HVAC, WIRED BY E.C. AFG ABOVE FINISHED GRADE KES K WW K ARCH ARCHITECT KW KW K UIT - F&I BY HVAC, WIRED BY E.C. AT AMP TRIP LTG L ATC AUTO-TEMP CONTROL MCB NO - F & I BY HVAC, WIRED BY E.C. ATS AUTOMATIC TRANSFER SWITCH MCM T AWG AMERICAN WIRE GAUGE MDP M N - F & I BY HVAC, WIRED BY E.C. ATS AUTOMATIC TRANSFER SWITCH MCM T AWG AMERICAN WIRE GAUGE MDP M N - F & I BY HVAC, WIRED BY E.C. ATS AUTOMATIC TRANSFER SWITCH MCM T AWG AMERICAN WIRE GAUGE MDP M NCM T AWG AMERICAN WIRE GAUGE MDP M CATV CABLE TELEVISION MTD M CB CRCUTT BREAKER MTG M CATV CABLE TELEVISION MTD M CB CRCUTT BREAKER MTG M CATV CABLE TELEVISION MTD MTD SWITCH-'s' DESIGNATES SWITCH CONTROL QP DEEP DWG DRAWING SUBCONTRACTOR PB TES EXISTING EQUIPMENT. FA FIRE ALARM PWR P DWG DRAWING SUBCONTRACTOR PB DBACK TO NEXT ACTIVE FAIL OF TREALED RGS F DBACK TO NEXT ACTIVE FAIL OF TREALED RGS F DBACK TO NEXT ACTIVE FAIL GGUID BREAKER T UPMENT TO BE REMOVED AND GG CG GENERAL CONTRACTOR PB DWG DRAWING SUBCONTRACTOR PB DWG DRAWING SUBCONTRACTOR PC DWG PARENT IPMENT TO REREMOVED AND SN SS SUBCONTRACTOR SNEEM SUBCONTRACTOR SNEEM TO PARELL GGND GROUND FAULT INTERRUPTER TPY T TO REMAIN. GC GG GENERAL CONTRACTOR WP TYP T TO REMOVED AND SN SS SUBLE OF AND NEW CONDITIONING SUBCONTRACTOR WP TYP T TO REMOVED AND NEW CONDITIONING SUBCONTRACTOR WP TO STALE DAND NEW TO DE REMOVED AND NEW CONDITIONING SUBCONTRACTOR WP TYP T TO REMAIN.	ICAL EQUIPMENT	ABBREVIATIONS				
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MENT TO REMAIN. GC GENERAL CONTRACTOR MENT TO BE REMOVED AND GFI GROUND FAULT INTERRUPTER TEL/DATA T MENT TO BE REMOVED AND GFPE GROUND FAULT INTERRUPTER TYP T DF RELOCATED EXISTING EQUIPMENT. HVAC HEATING, VENTILATING, AND AIR WG W MENT TO BE REMOVED AND NEW CONDITIONING SUBCONTRACTOR WP W	PANEL.	G,GND	GROUND		SOLID NEUTRAL	
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DF RELOCATED EXISTING EQUIPMENT. FOR EQUIPMENT UNO	IENT TO BE REMOVED AND		GROUND FAULT INTERRUPTER	TYP	TYPICAL	
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ALLED IN SAME LOCATION WP V	JF KELUGATED EXISTING EQUIPMENT.	HVAC	HEATING, VENTILATING. AND AIR	WG	WIRE GUARD	
ALLED IN SAME LOCATION. HP HORSEPOWER XFMR T	IENT TO BE REMOVED AND NEW			WP	WEATHERPROOF	
		HP	HORSEPOWER		TRANSFORMER	
IMC INTERMEDIATE METALLIC CONDUIT XP E		IMC	INTERMEDIATE METALLIC CONDUIT		EXPLOSION PROOF	
					MOUNT 72 INCHES TO CENTERLINE	

- 1. REFER TO DEMOLITION SECTION OF SPECIFICATION FOR ADDITIONAL
- 2. WHERE DOWNSTREAM DEVICES ARE AFFECTED BY THE DEMOLITION WORK THIS CONTRACTOR SHALL PROVIDE NEW WIRING AS REQUIRED TO
- 3. ALL DEVICES AND/OR EQUIPMENT REMOVED BY THIS CONTRACTOR SHALL BE INSPECTED BY THE OWNER FOR DETERMINATION OF DISPOSAL OR STORAGE AS DIRECTED BY THE OWNER. FOR PURPOSES OF PRICING THIS CONTRACTOR SHALL ASSUME THAT NO DEVICE OR EQUIPMENT WILL
- 5. ALL EXISTING EQUIPMENT INDICATED TO BE REMOVED SHALL BE DONE IN A NEAT AND WORKMANLIKE MANNER. ALL EXISTING EQUIPMENT INDICATED TO BE TURNED OVER TO THE OWNER SHALL BE PRESENTED TO THE OWNER IN GOOD CONDITION AT A LOCATION DESIGNATED BY THE OWNER. ALL OTHER EQUIPMENT SHALL BE REMOVED FROM THE SITE.
- 6. REMOVE ALL ABANDONED CONDUCTORS AND EQUIPMENT NOT BUILT
- 8. PROVIDE BLANK COVER PLATES ON ALL ABANDONED JUNCTION BOXES AND BACKBOXES THAT ARE 8"X8" AND SMALLER TO MATCH FINISH OF ALL SURROUNDING COVER PLATES. REMOVAL ALL JUNCTION BOXES AND
- 9. TYPICAL DEMOLITION SCOPE IS THAT THE ELECTRICAL CONTRACTOR IS RESPONSIBLE TO CUT, CAP, MAKE SAFE, DROP TO THE FLOOR AND

GENERAL NOTES:

- 2. TEST ALL EQUIPMENT AND SYSTEMS INSTALLED TO CERTIFY
- CONDITIONS.

- INDICATED.
- OR INSTALLATION.
- ABOVE HUNG CEILINGS UNLESS OTHERWISE INDICATED.
- FIRE RATED WALLS.
- SPACES.
- SIZED IN ACCORDANCE WITH THE ELECTRIC CODE.
- PENETRATIONS ABOVE GRADE.



1. ELECTRICAL WORK SHALL BE IN ACCORDANCE WITH OSHA, NFPA STANDARDS, THE ELECTRICAL CODE AND THE LOCAL GOVERNING AUTHORITIES. THE DRAWINGS AND SPECIFICATIONS DO NOT ATTEMPT TO INDICATE ALL WORK REQUIRED BY CODES AND AUTHORITIES.

COMPLIANCE WITH DRAWINGS, SPECIFICATIONS, CODES, LOCAL AUTHORITIES AND REGULATIONS. INCLUDE LABOR AND COSTS FOR TESTING, REVIEWS, APPROVALS AND CERTIFICATIONS.

3. DRAWINGS ARE DIAGRAMMATIC ONLY. EXACT LOCATION, MOUNTING HEIGHTS OF EQUIPMENT AND ROUTING OF RACEWAYS SHALL BE COORDINATED WITH THE EQUIPMENT REQUIREMENTS AND FIELD

4. FURNISH AND INSTALL ALL INCIDENTAL ACCESSORIES NECESSARY TO MAKE THE ELECTRICAL WORK COMPLETE AND READY FOR OPERATION.

5. SUPPORT ALL WORK FROM THE BUILDING STRUCTURE.

6. ALL MOUNTING HEIGHTS ARE TO CENTERLINE UNLESS OTHERWISE

7. IF EXACT MOUNTING OR RACEWAY ROUTINGS ARE NOT INDICATED (LOCATION OR HEIGHT) REQUEST CLARIFICATION PRIOR TO ROUGHING,

8. ELECTRICAL WORK SHALL BE RECESSED INTO WALLS OR INSTALLED

9. DO NOT INSTALL OUTLETS BACK TO BACK. PROVIDE 24 INCH SPACING IN

10. PROVIDE ELECTRICAL OUTLET PLATE GASKET SEALS AT RECEPTACLES, SWITCHES AND OTHER ELECTRICAL BOXES ON EXTERIOR WALLS AND INTERIOR WALLS BETWEEN CONDITIONED AND NON-CONDITIONED

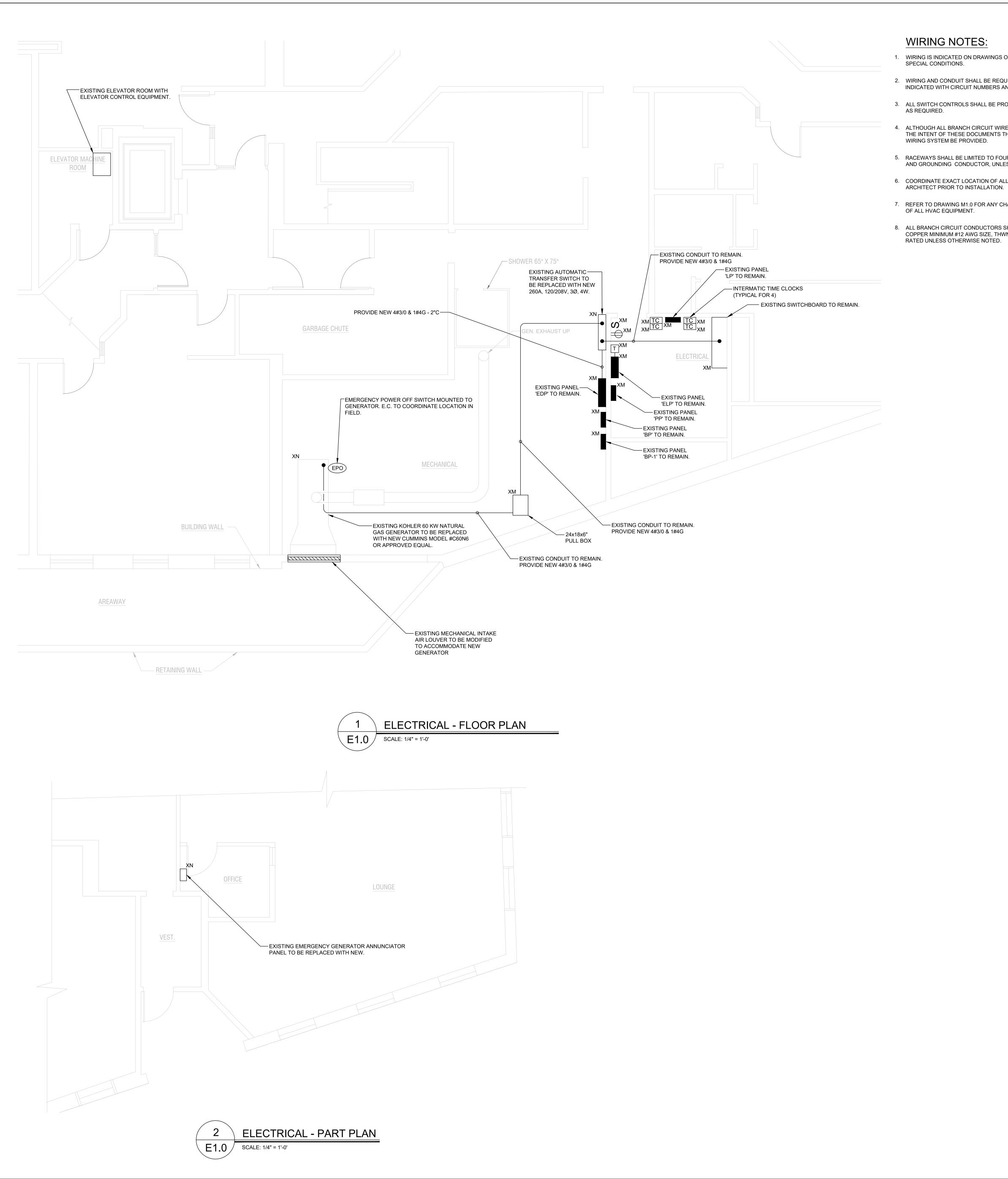
11. INSTALL A GREEN GROUNDING CONDUCTOR WITHIN EACH RACEWAY

12. PROVIDE WATERTIGHT AND GAS TIGHT SEALS INSIDE AND OUTSIDE OF CONDUITS THAT PENETRATE THE BUILDING BELOW GRADE, O.Z. GEDNEY OR APPROVED EQUAL. PROVIDE WEATHER TIGHT SEAL AT

13. PROVIDE NRTL LISTED SMOKE AND FIRE SEALS AT ALL PENETRATIONS THROUGH FLOORS OR FULL HEIGHT (SLAB TO SLAB) WALLS.

14. PROVIDE A PULL LINE IN EVERY EMPTY CONDUIT PROVIDED UNDER THIS SECTION.

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F	REV	ISIONS			
Road	ConsultingEngineers, Inc.• Road, Suite D, Dartmouth, MA 02747-1258• f: 508-998-0883• www.g-g-d.com				
		SCALE: AS NOTED			
		DATE: MARCH 27, 2	2024		
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MILL ENERATOR UPGRADE			E.01		
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1. WIRING IS INDICATED ON DRAWINGS ONLY FOR SPECIFIC ROUTES OR

2. WIRING AND CONDUIT SHALL BE REQUIRED BETWEEN ALL OUTLETS INDICATED WITH CIRCUIT NUMBERS AND PANEL DESIGNATIONS.

3. ALL SWITCH CONTROLS SHALL BE PROVIDED WITH WIRING AND CONDUIT

4. ALTHOUGH ALL BRANCH CIRCUIT WIRE AND CONDUIT IS NOT SHOWN, IT IS THE INTENT OF THESE DOCUMENTS THAT A COMPLETE BRANCH CIRCUIT

5. RACEWAYS SHALL BE LIMITED TO FOUR CURRENT CARRYING CONDUCTORS AND GROUNDING CONDUCTOR, UNLESS OTHERWISE INDICATED.

6. COORDINATE EXACT LOCATION OF ALL DEVICES AND EQUIPMENT WITH

7. REFER TO DRAWING M1.0 FOR ANY CHANGES AND FOR EXACT LOCATION

8. ALL BRANCH CIRCUIT CONDUCTORS SHALL BE 98% CONDUCTIVITY, COPPER MINIMUM #12 AWG SIZE, THWN/THHN INSULATION, 600 VOLTS

GENERAL DEMOLITION NOTES:

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- 3. ALL DEVICES AND/OR EQUIPMENT REMOVED BY THIS CONTRACTOR SHALL BE INSPECTED BY THE OWNER FOR DETERMINATION OF DISPOSAL OR STORAGE AS DIRECTED BY THE OWNER. FOR PURPOSES OF PRICING THIS CONTRACTOR SHALL ASSUME THAT NO DEVICE OR EQUIPMENT WILL BE RE-USED UNLESS SPECIFICALLY NOTED AS SUCH.
- 4. PARTICULAR CARE SHALL BE TAKEN TO AVOID CREATING HAZARDS ON THE PROJECT OR CAUSING DISRUPTION OF SERVICES REMAINING.
- 5. ALL EXISTING EQUIPMENT INDICATED TO BE REMOVED SHALL BE DONE IN A NEAT AND WORKMANLIKE MANNER. ALL EXISTING EQUIPMENT INDICATED TO BE TURNED OVER TO THE OWNER SHALL BE PRESENTED TO THE OWNER IN GOOD CONDITION AT A LOCATION DESIGNATED BY THE OWNER. ALL OTHER EQUIPMENT SHALL BE REMOVED FROM THE SITE.
- 6. REMOVE ALL ABANDONED CONDUCTORS AND EQUIPMENT NOT BUILT INTO THE BUILDING CONSTRUCTION.
- 7. ABANDONED ELEMENTS BUILT INTO WALLS SHALL BE MARKED "ABANDONED".
- 8. PROVIDE BLANK COVER PLATES ON ALL ABANDONED JUNCTION BOXES AND BACKBOXES THAT ARE 8"X8" AND SMALLER TO MATCH FINISH OF ALL SURROUNDING COVER PLATES. REMOVAL ALL JUNCTION BOXES AND BACKBOXES THAT ARE LARGER THAN 8"X8".
- 9. TYPICAL DEMOLITION SCOPE IS THAT THE ELECTRICAL CONTRACTOR IS RESPONSIBLE TO CUT, CAP, MAKE SAFE, DROP TO THE FLOOR AND REMOVE FROM THE SITE.

GENERAL NOTES:

- 2. TEST ALL EQUIPMENT AND SYSTEMS INSTALLED TO CERTIFY
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- OR INSTALLATION.
- ABOVE HUNG CEILINGS UNLESS OTHERWISE INDICATED.
- FIRE RATED WALLS.
- SPACES.
- SIZED IN ACCORDANCE WITH THE ELECTRIC CODE.
- PENETRATIONS ABOVE GRADE.
- THROUGH FLOORS OR FULL HEIGHT (SLAB TO SLAB) WALLS.

	NO.	DATE	BY		REVISION	
REVISIONS						
GGD Consulting Engineers, Inc. 375 Faunce Corner Road, Suite D, Dartmouth, MA 02747-1258 p: 508-998-5700 • f: 508-998-0883 • www.g-g-d.com						2747-1258
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CHECKED BY: DMP DATE: MARCH 27, 2					2024	
TITLE ELECTRICAL - FLOOR PLANS				JOB NO. 567002.00		
PROJECT LHA CONCORD RIVER MILL ELDERLY HOUSING GENERATOR UPGRADE					E1.0	
CLIENT LOWELL HOUSING AUTHORITY						

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