	Addendum mumber 01	00 9113
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Hayes Elementary School: Cooler and Freezer Replacement		202015
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System, Kitchen Hood and UDS		
	Delease Date	Cobruger 0 2021

Release Date: February 9, 2021

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Addondum Number 01

SECTION 00 9113 Addendum Number 01

Addendum Number 01

Projects: Lost Mountain Middle School 700 Old Mountain Road Kennesaw, Georgia 30152 CCSD # S5S005LMTM

> Hayes Elementary School 1501 Kennesaw Due West Road NW Kennesaw, Georgia 30152 CCSD # S5S005HAYE

Mount Bethel Elementary School 1210 Johnson Ferry Road Marietta, Georgia 30068 CCSD # S5S005MTBE

- Owner: Cobb County School District 514 Glover Street Marietta, Georgia 30060
- Architect: MWL Architecture, LLC 17 Summerfield Crossing Acworth, Georgia 30101

This addendum is issued prior to the execution of the contract and is intended to modify and/or interpret the bidding documents by additions, deletions, clarifications, and/or corrections. The Contractor shall acknowledge receipt of this addendum in the Bid Proposal Form. The addendum shall be made a part of the Standard Form of Agreement Between Owner and Contractor. This addendum supplements and/or supersedes the drawings, project manual and previously dated contract documents. In the case of discrepancies between the drawings, project manual, or addenda; the addenda shall govern.

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Section 00 9113 Addendum Number 01

	Addendum Number 01	00 9113
Food & Nutrition Services Lost Mountain Middle School: Cooler and Freezer Replacement Hayes Elementary School: Cooler and Freezer Replacement Mount Bethel Elementary School: Freezer Replacement, HVAC System, Kitchen Hood and UDS		202014 202015 202016
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Bid Date & Time:

The Bid Date has been changed. The New Bid Date is Tuesday February 16, 2021. The Bid Time remains unchanged.

Project Manual:

(The following sections of the project manual are included herein.)

Section Number	Section Name	Description
00 0110	Table of Contents	Revised to identify specification sections modified under this addenda.
22 1000	Pipe Fittings & Accessories Plumbing	Added verbiage for domestic water and sanitary piping as well as instruction for plumbing contractor to include flexible hoses for connection between cooking equipment and UDS
23 0100	Operation & Maintenance of HVAC Systems	Revised to address warranty protocol.
23 3813	Range Hood	Clarification that plumbing contractor shall provide flexible hoses as stated above.

Drawings:

(The following drawings are included herein.) LOST MOUNTAIN MIDDLE SCHOOL (LMMS)

Sheet Number	Sheet Name	Description
A1.1 (LMMS)	COVER	Revised Drawing Index for Addendum-1.
A8.1 (LMMS)	CEILING PLAN	Revised Keynote 11 4100 REFRIGERANT PIPING.
E1.1 (LMMS)	ELECTRICAL LEGEND, DETAILS, NOTES, & FLOOR PLAN	Revised Electrical General Notes.
Drowinge		I

Drawings: (The following drawings are included herein.)

HAYES ELEMENTARY SCHOOL (HES)

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Sheet Number	Sheet Name	Description
A1.1 (HES)	COVER	Revised Drawing Index for Addendum-1.
A3.1 (HES)	DEMOLITION PLAN	Revised wall demolition not to include portion of existing wall containing electrical panels.
A6.1 (HES)	FLOOR PLAN	Revised Keynote 23 8126 HVAC UNIT 2.
A8.1 (HES)	CEILING PLAN	Revised Keynotes 11 4100 REFRIGERANT PIPING, 23 8126 CONDENSATE DRAIN PIPING, 23 8126 REFRIGERANT PIPING.
A20.1 (HES)	SCHEDULES	Revised floor finish & base to Quarry Tile in the Dry Storage Room 101, Office 102, & Corridor 103.
-	-	Revised High Wall Heat Pump Ductless System (Wall Insulation) to include condensate pump.
-	-	Revised Model Number for the Freezer Condenser.
-	-	Added Owner's notes for maintenance & service requirements, including warranty requirements.
E1.1 (HES)	ELECTRICAL LEGEND, NOTES, SCHEDULES & DETAILS	Revised Electrical General Notes.
E2.1 (HES)	ELECTRICAL FLOOR PLANS, LIGHTING, & POWER	Revised Partial Electrical Floor Plan-Power.
E3.1 (HES)	ELECTRICAL RISER DIAGRAMS, NOTES, & SCHEDULES	Revisions to Panel Schedule ENLS, Electrical Riser Diagram Notes, & Electrical Riser Diagram

Drawings:

(The following drawings are included herein.) MOUNT BETHEL ELEMENTARY SCHOOL (MBES)

Sheet Number	Sheet Name	Description
A1.1 (MBES)	COVER	Revised Drawing Index for Addendum-1.

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A3.1 (MBES)	DEMOLITION	Added Note-1 Sheet A3.1 DEMOLITION PLAN to relocate existing bike rack and demo existing bollard.
A6.1 (MBES)	FLOOR PLAN	Relocated Cooler & Freezer Condensers, including chain link fencing and gates.
A6.2 (MBES)	EQUIPMENT PLAN	Added Sheet A6.2 EQUIPMENT PLAN.
A8.1 (MBES)	CEILING PLAN	Relocated Condensers & Refrigerant Piping. See new Sheet A6.2 EQUIPMENT PLAN.
-	-	Added Note-2 Sheet A8.1, Addressing existing kitchen equipment removal and re-installment.
-	-	Revised Keynote 21 1313 WPSS.
-	-	Revised Keynote 23 8126 CONDENSATE DRAIN PIPING.
A20.1 (MBES)	SCHEDULES	Added Owner's notes for maintenance & service requirements, including warranty requirements.
S1.0 (MBES)	RTU LAYOUT & ROOF FRAMING PLANS	Added Sheet S1.0 RTU LAYOUT & ROOF FRAMING PLANS to address modifications for the existing structural steel supporting additional loads from the new roof top unit & kitchen hood.
S2.0 (MBES)	JOIST REINFORCING DETAILS & GENERAL NOTES	Added Sheet S2.0 JOIST REINFORCING DETAILS & GENERAL NOTES to address modifications for the existing structural steel supporting additional loads from the new roof top unit & kitchen hood.
S2.1 (MBES)	JOIST REINFORCING ELEVATIONS	Added Sheet S2.1 JOIST REINFORCING ELEVATIONS to address modifications for the existing structural steel supporting additional loads from the new roof top unit & kitchen hood.
M0.1 (MBES)	HVAC LEGEND, ABBREVIATIONS & NOTES	Revised Notes, 4 & 11 to address Owner review comments.
M3.1 (MBES)	HVAC KITCHEN HOOD/ UDS SYSTEM	Revised detail 1 to clarify 2-1/2" on the gas supply as well as the diagram's dimensions for the tower.
M5.1 (MBES)	HVAC SCHEDULES	Revised mechanical schedules that reflect the compressor and leak warranties and the filter rack comment for the RTU.
P0.1 (MBES)	PLUMBING NOTES, SCHEDULES & DETAILS	Added Sheet P0.1 PLUMBING NOTES, SCHEDULES & DETAILS.

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P1.1 (MBES)	PLUMBING PLAN	Added CW/HW to layout and included CW/HW in the Gas routing notes for the Contractor. Also added branch of CW for roof hydrant.
P1.2 (MBES)	PLUMBING ROOF PLAN	Added roof hydrant and notes were adjusted for gas painting and hydrant.
P-1 (MBES)	GENERATOR REPLACEMENT NOTES, DETAILS, SCHEDULES & PLANS	Re-issued to organize sheet number in set.
E1.1 (MBES)	ELECTRICAL LEGEND, NOTES, SCHEDULES & DETAILS	Revisions to Light Fixture Schedule, Electrical Legend, & Electrical General Notes.
E2.1 (MBES)	ELECTRICAL FLOOR PLAN LIGHTING	Revisions to Electrical Floor Plan Lighting.
E2.2 (MBES)	ELECTRICAL FLOOR PLAN POWER	Revisions to Electrical Floor Plan Power.
E3.1 (MBES)	ELECTRICAL RISER DIAGRAM, NOTES, & SCHEDULES	Revisions to Electrical Riser Diagrams, Electrical Riser Diagram Notes, & transformer Schedule

Bidders Questions and Architect's Response:

Bidder	Question	Response
Triad Construction Company	The cooler manufactures are wanting to confirm that the overall height of the freezer cooler boxes will be 9'8". Can this be confirmed?	 0'- 4" (Insulated Floor Panel) 0'- 4" (GFRC Sub-Floor) 0'- 2" (Finish Floor) 8'- 6" (Clear from Finish Floor to Finish Celling) 0'- 4" (Insulated Ceiling Panel) Summation = 9'-8" Contractor to field verify as built conditions for available clearance to confirm overall height of the Cooler & Freezer Boxes will not be in conflict with as built conditions.
Triad Construction Company	Will the awarded Contractor be responsible for unloading the new generator when it is delivered?	Confirmed, the Contractor will be responsible for suppling all labor and equipment to take delivery and remove the Generator from the delivery truck.

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Triad Construction

Company

Triad Construction

Company

Can we use stain grade doors and	2.03 FABRICATION
apply field finish to match the	Pre-finish doors at factory with clear WDMA
existing doors?	System # 6 finish.
Can we use knock down frames and field weld as long as our doors and frames will maintain the fire rating and labels?	Knock down frames are only permitted when cutting openings into existing wall construction. The project does not have a scope of work meeting this criteria. Hollow metal doors & frames scheduled are located in new wall construction.
Q1: Spec for Quarry Tiling 09 3016 – 3.03 B.7 (Pg. 8 of 10)	
states:	
"Install a 1 inch uniform clana from	

Osprey Management	states: "Install a 1-inch uniform slope from the rear of walk-in coolers and freezers to the entry door of walk-in coolers and freezers" As per Tile Installer, 1 inch uniform slope from rear to entry is almost no fall or pitch across a cooler that is 22'-2" long (@ Lost Mt. ES) as well as almost impossible to accomplish in the field. The typical slope is ¼" per foot. While that may be extreme, we need a minimum of 1/8" per foot. Please clarify slope requirements.	The requirements of Specification Section 09 3016 Quarry Tiling shall govern the quarry tile installation. Specific site conditions impacting Quarry Tile installation shall be evaluated during the construction process.
Osprey Management	Q2: Please clarify Sprinkler room location of the existing & new DPSS Controls system to be installed.	21 1316 Dry Pipe Sprinkler System, Part 3 Execution, A. Designer: 1. The Contractor shall contract with a license professional experience in the design of Work covered under this section and licensed in the State where the Work is performed. The location of the existing sprinkler riser and controls shall be field verified by the Contractor and /or the Designer.

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Osprey Management	Q3: Demolition Plan A3.1 keynote with regards to the DPSS states "Coordinate limits of Demolition with new construction". Please clarify if existing Sprinkler main piping outside cooler/freezer can remain and utilized for the new DPSS system.	21 1316 Dry Pipe Sprinkler System, Part 3 Execution, A. Designer: 1. The Contractor shall contract with a license professional experienced in the design of Work covered under this section and licensed in the State where the Work is performed. The limits of demolition and new construction shall be field verified by the Contractor and /or the Designer and approved by the Owner and Architect.
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END OF SECTION 00 9113 Addendum Number 01

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DIVISION 00	PROCUREMENT AND CONTRACTING REQUIREMENTS
00 0101	Project Title Page
00 0107	Professional Seals Page
00 0110	Table of Contents (Revised)
00 1100	Invitation for Bids
00 2100	Instructions to Bidders
00 3146	Permits and Inspections:
	01:Cobb County Fire Marshal's Office Web-Based Application Process
00 4100	Bid Proposal Form
00 5200	Agreement Forms:
	01: AIA A101-2017 Standard Form of Agreement Between Owner and Contractor
	02:AIA A101-2017 Exhibit A Insurance and Bonds
00 6100	Bond Forms:
	01: AIA A312-2010 Payment Bond
	02_AIA A312-2010 Performance Bond
00 6283	Specific Construction Date Schedule
00 7200	General Conditions:
	01:AIA A201-2017 General Conditions of the Contract for Construction
00 8000	Liquidated Damages
00 9113	Addenda
	Addendum-1 (Added)
DIVISION 01	GENERAL REQUIREMENTS
01 0000	General Requirements:
	01: Project Sign
	02: Schedule of Values
01 2100	Allowances
01 2500	Substitution Procedures
01 3119	Project Meetings

01 3216 Construction Progress Schedule

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- 01 3300 Submittal Procedures
- 01 4100 Regulatory Requirements
- 01 4529 Testing Laboratory Services
- 01 5000 Temporary Facilities and Controls
- 01 6500 Project Delivery Requirements
- 01 7329 Cutting and Patching
- 01 7423 Final Cleaning
- 01 7700 Closeout Procedures CCSD Forms:
 - 01: Project Closeout Check-Off List
 - 02: Warranty General-Contractor
 - 03: Warranty Sub-Contractor
 - 04: Special Extended Warranty
 - 05: Statutory Affidavit
 - 06: Non-Influence Affidavit
 - 07: Acknowledgement of Instruction
 - 08: Hazardous Materials Certificate
 - 09: Engineers Certificate
 - 10: Certificate of Final Completion
- DIVISION 02 EXISTING CONDITIONS
- 02 4119 Selective Demolition

DIVISION 03 CONCRETE

03 3000 Cast-In-Place Concrete

DIVISION 04 MASONRY

- 04 0513 Masonry Mortaring
- 04 0523 Masonry Accessories
- 04 2200 Concrete Unit Masonry

DIVISION 05 METALS

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05 5000 Metal Fabrications

DIVISION 06 WOOD, PLASTICS, AND COMPOSITES

06 1000 Rough Carpentry

DIVISION 07 THERMAL AND MOISTURE PROTECTION

- 07 2100 Thermal Insulation
- 07 2600 Vapor Retarders
- 07 6200 Sheet Metal Flashing and Trim
- 07 8400 Fire Stopping
- 07 9200 Joint Sealants

DIVISION 08 OPENINGS

- 08 1113 Hollow Metal Doors and Frames
- 08 1416 Flush Wood Doors
- 08 8100 Glass Glazing

DIVISION 09 FINISHES

- 09 2116 Gypsum Board Assemblies
- 09 2216 Non-Structural Metal Framing
- 09 3016 Quarry Tiling
- 09 5300 Acoustical Ceiling Suspension Assemblies
- 09 6726 Quartz Flooring
- 09 6813 Tile Carpeting
- 09 9100 Painting

DIVISION 10 SPECIALTIES

Not Used

DIVISION 11 EQUIPMENT

11 4100 Foodservice Storage Equipment

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DIVISION 13 SPECIAL CONSTRUCTION

FURNISHINGS

Not Used

Not Used

DIVISION 12

- DIVISION 14 CONVEYING EQUIPMENT Not Used
- DIVISION 15 RESERVED
- DIVISION 16 RESERVED
- DIVISION 17 RESERVED
- DIVISION 18 RESERVED
- DIVISION 19 RESERVED
- DIVISION 20 RESERVED

DIVISION 21 FIRE SURPRESSION

21 1316 Dry Pipe Sprinkler System

DIVISION 22 PLUMBING

- 22 0010 General Provisions Plumbing
- 22 0500 Common Work Results for Plumbing
- 22 0523 Plumbing Valves and Strainers
- 22 0553 Identification for Plumbing Piping and Equipment
- 22 1000 Pipe Fittings and Accessories Plumbing (Revised)
- 22 1005 Plumbing Piping and Drainage Accessories

DIVISION 23 HEATING, VENTILATION, AND AIR CONDITIONING

- 23 0010 General Provisions HVAC
- 23 0100 Operation and Maintenance of HVAC Systems (Revised)
- 23 0500 Common Work Results for HVAC
- 23 0529 Equipment Supports

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- 23 0553 Identification for HVAC Piping and Equipment
- 23 0593 Testing, Balancing, and Adjusting
- 23 0700 HVAC Insulation
- 23 2300 Refrigerant Piping and Accessories
- 23 3100 Ductwork
- 23 3400 Fans
- 23 3713 Grilles, Registers, and Diffusers
- 23 3813 Range Hood (Revised)
- 23 7415 Unitary Air Conditioning Unit
- 23 8126 Direct Expansion Equipment, Heat Pumps and Gas Fired Heating Equipment

DIVISION 24 RESERVED

DIVISION 25 INTERGRATION AUTOMATION

Not Used

DIVISION 26 ELECTRICAL

- 26 0100 Electrical General Provisions
- 26 0120 Architectural Criteria for Division 26 Systems
- 26 0500 Basic Materials and Methods
- 26 3200 Emergency/ Stand-By Power Systems Generator Set
- 26 3600 Emergency/ Stand-By Power Systems Transfer Switches
- 26 5000 Lighting
- DIVISION 27 COMMUNICATIONS

Not Used

DIVISION 28 ELECTRONIC SAFETY & SECURITY

Not Used

DIVISION 29 RESERVED DIVISION 30 RESERVED

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DIVISION 31 EARTHWORK

31 0000 Earthwork

DIVISION 32 EXTERIOR IMPROVEMENTS

32 3100 Chain Link Fences and Gates

- 32 9200 Turf and Grasses
- DIVISION 33 UTILITIES
- Not Used
- DIVISION 34 TRANSPORTATION
- Not Used

DIVISION 35 WATERWAY & MARINE CONSTRUCTION

Not Used

- DIVISION 36 RESERVED
- DIVISION 37 RESERVED
- DIVISION 38 RESERVED
- DIVISION 39 RESERVED
- DIVISION 40 PROCESS INTEGRATION

Not Used

- DIVISION 41 MATERIAL PROCESSING AND HANDLING EQUIPMENT Not Used
- DIVISION 42 PROCESS, HEATING, COOLING, AND DRYING EQUIPMENT Not Used

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DIVISION 43	PROCESS GAS AND LIQUID HANDLING, PURFICA	ATION, AND STORAGE	E

Not Used

- DIVISION 44 POLLUTION AND WASTE CONTROL EQUIPMENT Not Used
- DIVISION 45 INDUSTRY-SPECIFIC MANUFACTURING EQUIPMENT Not Used
- DIVISION 46 WATER AND WASTEWATER EQUIPMENT Not Used
- DIVISION 47 RESERVED
- DIVISION 48 ELECTRICAL POWER GENERATION Not Used

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SECTION 22 1000 Pipe Fittings and Accessories – Plumbing

PART 1 GENERAL

1.01 **DESCRIPTION**

A. Piping specified in this Section is for types of pipe and accessories used in Division 22.

1.02 **RELATED SECTION**

A. Section 22 0500 Common Work Results for Plumbing

1.03 **QUALITY ASSURANCE**

- A. Codes and regulations referred to are minimum standards. Where the requirements of these specifications or drawings exceed those of the codes and regulations, the drawings and specifications govern.
- B. Pressure/temperature ratings of all components and accessories shall meet or exceed design conditions for the system in which they are installed.
- C. Welding shall be in accordance with procedures of the National Certified Pipe Welding Bureau and shall comply with the requirements of the ANSI Code for Pressure Piping. Welders shall be qualified under the above procedures and certified by the National Certified Pipe Welding Bureau.

PART 2 PRODUCTS

2.01 **PIPE AND FITTINGS**

A. INTERIOR DOMESTIC WATER SYSTEM:

- 1. Pipe:
 - a. Type "L" hard copper above ground.
 - b. Type "K" hard copper buried.
- 2. Fittings: Wrought copper solder type pressure fittings.

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- 3. Joints: Solder joints 95/5 above ground. Silver alloy solder for buried piping. All solder shall be totally lead free.
- 4. Flux: Meeting requirements of ANSI/NSF Standard 61.

B. SOIL, WASTE, VENT AND RAINWATER SYSTEM:

- 1. Pipe and Fittings inside the building to 5'-0" beyond building wall:
 - a. Cast iron piping. Underground piping shall be hub and spigot type with gasketed push-on type joints. Above ground piping shall be no-hub type with stainless steel and neoprene couplings. Pipe and fittings shall be marked with a collective trademark of the Cast Iron Soil Pipe Institute. See Section 15060.
 - b. All cast iron pipe and fittings shall be of one manufacturer and shall conform to the ASTM requirements listed by the Cast Iron Soil Pipe Institute.
 - c. Protective Coating Cast Iron Inside Soil, Waste and Vent Piping: Piping shall be coated with suitable coating complying with the ASTM A74 and A888 and CISPI 301 standards.
 - d. Pipe and fittings shall be manufactured by Charlotte Pipe and Foundry, Tyler Pipe or AB&I Foundry.
- 2. Waste Piping from Fixtures:
 - a. Connect floor outlet water closets with cast iron closet connectors. Make joint between closet traps and floor flanges with gaskets.
 - b. Caulk cast iron closet connectors to the cast iron closet bend or straight closet connection.
 - c. Connect fixture traps from lavatories, drinking fountains, service sinks, kitchen equipment, etc. to cast iron pipe with DWV copper.
 - d. Connect fixture traps from urinals to cast iron pipe with Schedule 40 PVC Piping.
- C. Flashing: Vents at roof shall be flashed with 6 lb./sg. ft. sheet lead, counter flashed into vent cap collar. Roof drains shall be flashed with 6 lb./sq. ft sheet lead, counter flashed into the roof drain flashing clamp. Flashings shall extend a minimum of 18" in all directions from the outside perimeter of vent piping and roof drain.

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D. Steel Piping:

1. Pipe (up to 12" diameter):

Material	Specification
Schedule 40 Black steel	ASTM A53-97b Grade B

2. Fittings:

- a. 150 lb. SWP malleable iron screwed fittings conforming to ANSI B16.3.
- b. 125 lb. SWP cast iron flange fittings conforming to ANSI B16.1.
- c. Standard weight factory fabricated butt welding fittings conforming to ANSI B16.9 and ASTM A-234.
- d. 150 lb. forged steel welding neck or flat face slip-on flanges conforming to ASTM A181.
- e. Socket fittings conforming to ANSI B16.11.
- f. Cast iron drainage pattern fittings conforming to ANSI B16.12.
- g. Dielectric couplings and/or flange kits shall be provided at connections between ferrous and non-ferrous pipe. Provide with high temperature gaskets rated for 300°F steam service.
- h. Unions:
 - 1) Except where otherwise specified, unions in welded piping shall be flanges.
 - 2) Unions in piping 2-inch and smaller shall be 150 lb. malleable iron, ground joint, bronze to iron, screw type.
 - 3) Unions in screwed piping 2¹/₂" and larger shall be 125 lb. cast iron flanges.
- i. Fittings, flanges and unions in galvanized steel pipe shall be galvanized.
- 3. Joints, unless specified otherwise:
 - a. Screwed Joints: Joint compound shall be "Titeseal" or Teflon Tape, except where otherwise specified.
 - b. Welded Joints: Welding rods shall be compatible with the material to be welded. Welding shall be by electric arc or oxyacetylene methods.
 - c. Flanged joints shall be made up with 1/16" thick, ring type, compressed composition sheet gasket, except for gas piping which shall be made up with aluminum "O" ring type gaskets. Flange bolts shall be steel hexagon head type, conforming to ASTM Specification A-307. Nuts shall conform to ASTM Specification A-193.

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PART 3 EXECUTION

3.01 **PIPING - GENERAL**

- A. All piping shall be run straight and parallel to building construction. All changes in directions shall be made with fittings as specified herein and shown on the drawings.
- B. All piping shall be installed with allowance for expansion and contraction.
 - 1. Pipe connections to equipment, which is supported independent of the pipe, including pumps, shall be aligned with the equipment.
 - 2. For connections of cooking equipment with utility distribution system, FLEXIBLE CONNECTORS SHALL BE PROVIDED BY PLUMBING CONTRACTOR TO CONNECT OUTLETS OF UTLITY DISTRIBUTION SYSTEM WITH COOKING EQUIPMENT. CONTRACTOR SHALL VERIFY TYPES/SIZES OF ALL CONNECTORS REQUIRED WITH EXISTING EQUIPMENT.
- C. Equipment Drains, Drips, Etc.:
 - 1. All devices and equipment having drain, drip or blowdown connection shall be piped to nearest floor drain terminating with an elbow over grate, except where otherwise specified.
 - 2. Piping shall be run parallel and plumb to walls and shall be braced to walls, floor, other piping or equipment.
 - 3. Piping shall be full size of device or equipment connection. Except for relief valve discharges, horizontal drains may be combined into one pipe that is one pipe larger than largest connecting pipe.
 - 4. Condensate drains shall be trapped and provided with unions and cleanouts.
- D. Unions shall be provided at all connections to flow control valves, equipment and apparatus.

PROCEDURES FOR PIPE JOINTS 3.02

- A. Welded Joints:
 - 1. All welding of pipe shall conform to the ASME and ANSI Standards B31.1 Power Piping and B31.9 Building Services Piping.
 - 2. Mitering or notching pipe to form elbows and tees will not be permitted. Field and shop bevels shall be in accordance with the recognized standards and shall be done by mechanical means or flame cutting. Where beveling is done by flame cutting, surfaces shall be cleaned of slag, scale and oxidation prior to welding.

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- 3. Before welding, the component parts to be welded shall be aligned so no strain is placed on the weld when finally positioned. Height shall be aligned so that no part of the pipe wall is offset by more than 20 percent of the wall thickness. Flanges and branches shall be set true. This alignment shall be preserved during the welding operations. Connections larger than 6" shall be made with backing rings at welds.
- 4. Where the temperature of the component parts being welded reaches 32°F or lower, the material shall be heated to approximately 100°F for a distance of 3' on each side of the weld before welding, and the weld shall be finished before the material cools to 32°F. All welds shall be full penetration welds.
- 5. Defective welds shall be removed and replaced at no additional cost to the Owner. Repairing of defective welds by adding new materials over the defects or by peening will not be permitted.
- 6. Electrodes shall be stored in a dry, heated area and shall be kept free of moisture or dampness during fabrication operations. Electrodes that have lost part of their flux shall be discarded.
- 7. Fire protection safeguards shall be employed in connection with welding operations.
- 8. No welding will be permitted where communication equipment has been installed.
- 9. Before any welder shall perform any pipe welding, submit a copy of the Welding Operator Qualification Test as required by the referenced standards cited hereinbefore.
- B. Screwed Joints:
 - 1. All threads shall be standard, clean cut and tapered. All burrs shall be reamed from inside of the pipe and pipe shall be turned on end and all loose dirt and scale knocked out.
 - 2. Pipes with threads stripped, chipped or damaged, or split pipe or defective fittings shall not be used.
 - 3. Joint compound shall be applied to the male threads only.
- C. Flanged Joints: Gaskets shall extend to inside the bolt holes, and flanges shall be brought up truly and water and air tight on gaskets by tightening bolts on opposite sides of the pipe.

3.03 **PRESSURE TESTING**

A. See particular piping section for pressure testing requirements.

END OF SECTION 22 1000 Pipe Fittings and Accessories - Plumbing

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SECTION 23 0100 Operation and Maintenance of HVAC Systems

PART 1 GENERAL

1.01 MAINTENANCE AND OPERATING MANUALS

- A. Provide manual in number of copies indicated under Section 23 0010 General Provisions HVAC.
- B. Material submitted in the manuals shall represent the equipment manufacturer, model, and type installed on the project.

1.02 MAINTENANCE AND SERVICE DURING WARRANTY PERIOD

A. Service of the mechanical equipment during the one-year warranty period shall be governed by section 3.02 and 3.03 of this specification.

PART 2 PRODUCTS

2.01 MAINTENANCE AND OPERATING MANUALS

- A. Maintenance and Operating Manuals shall consist of the following as a minimum:
 - 1. Hardback three-ring binders with job name, Owner's name, work order (WO #), and Bid number on the cover.
 - 2. Typed index listing name, address, and phone number of the General Contractor, HVAC Subcontractor, Insulation Subcontractor, Sheetmetal Subcontractor, and Controls Subcontractor, and all major equipment suppliers.

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- 3. Typed table of contents, listing each Section, title, and number.
- 4. All Sections shall be tabbed with plastic tabs listing Section numbers.

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- 5. Each item of equipment requiring maintenance and operation data as noted in each specification section shall be provided with an index listing the types of equipment installed. Submittal data shall be included to the extent necessary to identify equipment, including summary sheet, such as model, size, air or water flow, pressure developed, speed, and motor size. Instructions shall include type and suggested frequency of maintenance, oiling, cleaning, disassembly and reassembly directions, and wiring diagrams.
- 6. Make, model, serial number, and purchase order number of every item of equipment shall be identified on all documentation.
- 7. One section shall include a complete set of record control drawings, bound in a plastic insert, full size, complete with a written sequence of operation for all control systems.
- 8. Letters, where factory startup or checking has been required, certifying completion of performance.
- 9. Provide three (3) hard copy sets and one electronic set of all aforementioned items in PDF format to the owner.
- 10. Contractor's signed warranty letter certifying all work has been completed as required and stating what date warranty shall end.
- 11. Table showing all major pieces of equipment and when the warranty of the equipment expires.

PART 3 EXECUTION

3.01 MAINTENANCE AND OPERATING MANUALS

- A. All maintenance and operating manuals shall be complete and ready to turn over to Owner's representative at final inspection.
- B. Incomplete manuals will be returned to the Contractor for complete resubmission. Loose-leaf submittal of material at various stages of completion will not be acceptable.
- C. Contractor to submit to Engineer of Record for review two (2) weeks prior to completion of project.

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MAINTENANCE SERVICE AND REPAIRS 3.02

- A. Contractor to arrange for qualified equipment service Technicians to provide preventative service every 3 months (minimum 4 times) within the one-year warranty period to keep all systems operating in first-class working order. Service outlined below.
- B. Contractor shall coordinate service times with the CCSD's Maintenance Manager at least one week prior to proposed regular servicing schedule.
- C. Contractor shall also notify the CCSD's Maintenance Manager prior to each equipment repair visit.
- D. Owner's maintenance personnel shall be present during all servicing and repair activities. Contractor must document each visit and have CCSD's maintenance employee acknowledge the work was accomplished by signing the form.
- E. The Contractor agrees to provide an additional two years of warranty for all HVAC units in the event the above required preventative maintenance is not coordinated with CCSD Maintenance and performed within the necessary timeframes.

3.03 SERVICE REQUIREMENTS:

- A. Cooling Tower Drain and clean at each visit. Check belt and fan operation. Check operation of sump heater.
- B. Boiler Test fire and check all safeties.
- C. Gas Fired Rooftop Equipment Test compressor(s) operation. Test fire heat. Check belts. Check general operation of unit. Check for excessive rust or corrosion on top of unit. Clean condensation drain trap.
- D. Water Source Heat Pump Check operation of compressor and blower motor. Check operation of isolation valve if applicable. Spot check Y-strainer screens at different locations throughout building to insure loop water cleanliness.
- E. ERU/DOAS Check belt(s) if applicable. Check operation of compressor(s) Test fire heat.
- F. Split Systems Check general operation.

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G. Ductless Mini-Splits – Check general operation.

- H. Wall Mount Units Check general operation.
- I. Change filters in all equipment each visit.

END OF SECTION 23 0100 Operation and Maintenance of HVAC Systems

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SECTION 23 3813 Range Hood

PART 1 GENERAL

1.01 **DESCRIPTION**: This section specifies the range hood and fire extinguishing system.

1.02 **RELATED SECTIONS:**

- A. Section 23 0010 General Provisions HVAC
- B. Section 23 0700 Ductwork Insulation
- C. Section 23 3100 Ductwork

1.03 **SUBMITTALS**:

- A. See General Conditions for submittal procedure.
- B. Provide data on hood performance including, but not limited to, hood airflow and associated pressure loss.
- C. Provide shop drawing showing unit dimensions, weight, electrical requirements, service access requirements and duct connection sizes and locations.
- D. Provide manufacturer's instructions, indicate installation and support requirements.
- E. Provide operation and maintenance procedures; include start-up instructions, assembly drawings and parts list.

1.04 **QUALITY ASSURANCE**:

- A. Range hood shall be factory fabricated UL listed, and constructed per NFPA 96A, 1994.
- B. Fire protection system shall be factory installed and shall meet the requirements of U.L. 300 standard.

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PART 2 PRODUCTS

2.01 TYPE I RANGE HOOD:

- A. Hood shall be double shell design with short-circuit make-up air inside the hood, constructed of 18 gauge type 304 stainless steel with a No. 4 finish. Construction shall be continuous all liquid tight welded and ground smooth. Hood shall be a minimum size as scheduled on plans.
- B. The hood shall include UL listed stainless steel grease extractors, removable for cleaning unless a permanent part of the hood, draining to a grease collecting trough and removable container.
- C. The hood shall be provided with flush mounted vapor-proof fluorescent light fixtures inside the canopy, prewired to a single junction box on top of the hood for power connections.
- D. The hood shall be completely pre-piped with a UL 300 listed automatic wet chemical fire cable activated protection system, including outlets under the hood, duct outlets, conduit piping, cables, manual pull stations, fire links. normally closed manual reset gas shutoff valve for cooking equipment, auxiliary contacts for remote fire alarm monitor, and chemical storage tanks. All piping run in the hood to be concealed and all piping extending into duct and plenum nozzles are to be fitted with grease tight joints at penetration. Exposed nozzle piping to be Schedule 40 stainless steel with chrome plated fittings. System shall be by Ansul, Kidde Fenwal, or Pyro Chem.
- E. Hood exhaust rate, make-up air rate, details and total static pressure loss shall be as scheduled and detailed on plans.
- F. Range hood/UDS manufacturers shall be "Duo-Aire", or equal by "Gaylord" or Avtec contingent upon compliance with all criteria.

2.02 UTILITY DISTRIBUTION SYSTEM

- A. Kitchen equipment utility distribution system shall be a complete system manufactured in accordance with the National Electric Code NFPA 70, MFPA 96, International Plumbing Code with Georgia Amendments, and International Fuel Gas Code with Georgia Amendments, and NFPA 54. The assembly shall be UL listed and shall use AGA certified gas components.
- B. The utility distribution system shall be completely pre-wired and pre-piped to one final connection point for electricity, gas, hot and cold water.

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- C. The size and arrangement shall be as detailed on the drawings. The system shall provide electricity, gas and hot and cold water to all kitchen equipment located under the range hood. Refer to electrical plans and existing field conditions for final equipment setup. The system shall be floor mounted and the upright tower shall be located at the end of the range hood.
- D. The housing modules shall be constructed of 16-gauge and 20-gauge type 304 stainless steel with #4 mill finish. Removable link plates shall be 16-gauge stainless steel.

E. Electrical:

- 1. The electrical compartment shall be completely enclosed and accessible by removable panels.
- 2. Provide a main circuit breaker with a shunt trip in the control tower.
- 3. The internal electrical main feeder shall be a 100% copper cable type bus mounted on insulators and equipped with main lugs for connecting the incoming service.
- 4. Electrical receptables shall be located on 24" centers. Provide circuit breakers for each connection. 120-volt receptables shall be protected by GFIC circuit breakers or remote GFIC devices. The GFIC reset shall be readily accessible and not located behind kitchen equipment. Branch circuit wiring shall be phase identified and sized in accordance with the circuit breaker rated ampacity. Loads shall be evenly balanced between phases.
- 5. Receptables shall be provided for each piece of kitchen equipment requiring a plug-in electrical connection. Hard wired connections to equipment where required shall be made using conductors in water-tight flexible conduit with watertight connectors.
- 6. The shunt trip main breaker shall trip when the fire extinguishing system is activated. The system shall be prewired except for a field connection to the fire extinguishing system.
- 7. Provide switches for the exhaust and supply fans and range hood lights.
- F. Plumbing:
 - 1. The plumbing compartment shall be isolated from the electrical compartment. All piping and disconnects shall be color-coded. Provide unions at field connection points.
 - 2. Cold and hot water piping shall be type "L" hard drawn copper tubing with solder type fittings. Water lines shall be insulated with 3/8" closed cell insulation.
 - 3. Provide pressure reducing valves set to 40 PSI in both hot and cold water lines.
 - 4. Gas piping shall be schedule 40 black steel pipe with welded connections and a drip leg.

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- 5. Water and gas outlets shall be installed on 24" centers. Outlets shall be provided for each item of kitchen equipment requiring water or gas.
- 6. Valves for eater and gas shall be quarter turn ball valves. Provide a valve for each connection. Provide a main shut-off valve for each incoming service.
- Connection to kitchen equipment shall be made with flexible stainless steel connections. Gas connectors shall be UL or AGA listed. FLEXIBLE CONNECTORS SHALL BE PROVIDED BY PLUMBING CONTRACTOR TO CONNECT OUTLETS WITH COOKING EQUIPMENT. CONTRACTOR SHALL VERIFY TYPES/SIZES OF ALL CONNECTORS REQUIRED WITH EXISTING EQUIPMENT.
- 8. Provide an energy shut-off solenoid valve in the main gas line. The solenoid valve shall have a time delay to prevent nuisance pilot outages. The energy shut off system shall be completely pre wired except for a field connection to the fire extinguishing system switch in the range hood.

PART 3 EXECUTION

- A. Provide temporary protective padded covering on exposed surfaces of hoods components and utility distribution system components during construction.
- B. Coordinate final ductwork requirements with hood actually furnished.
- C. Perform a light test of the grease duct welds prior to insulation. Test to be witnessed and approved by AHJ.
- D. Mount hood a minimum of 6'-6" above finished floor.
- E. Provide enclosure panels from hood manufacturer as needed from edge of hood up to ceiling. Contractor to confirm final ceiling heights and hood dimensions.
- F. Install complete range hood assembly, utility distribution system & associated components in accordance with the Contract Documents, U.L. listing, NFPA-96, governing codes & Health Department regulations, and manufacturer's instruction manual.
- G. Field-test installed assembly & systems to verify their proper operation; tests shall be conducted in the presence of the A/E, (plus his Kitchen Consultant, and his Mechanical Engineer), the Owner's Project Manager, and required governing code officials in order to demonstrate satisfactory operation of all components. Test shall be in accordance with section 507.16 of the International Mechanical Code.

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- H. The Test & Balance Agency shall test for required supply and exhaust air quantities; include data in written report. Variances to criteria shall be corrected by the Contractor, then retested to verify compliance.
- I. Instruct designated Owner personnel on use of the assembly and systems.

END OF SECTION 23 3813 Range Hood

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LOST MOUNTAIN MIDDLE SCHOOL

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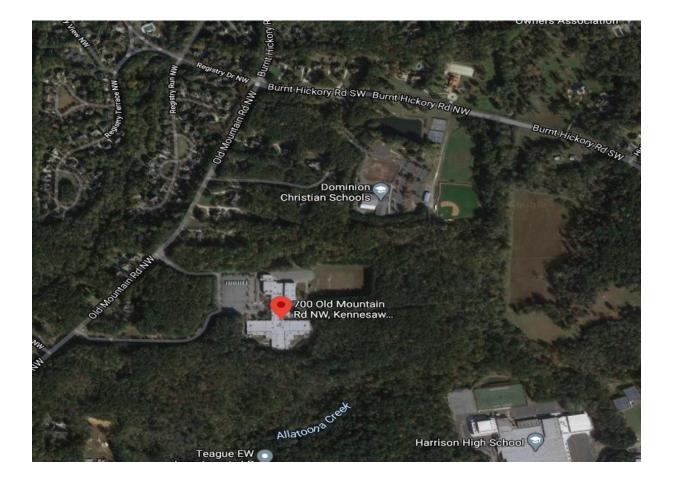


COOLER AND FREEZER REPLACEMENT CCSD # S5S005LMTM



PROJECT LOCATION MAP 700 OLD MOUNTAIN ROAD

KENNESAW, GEORGIA 30152



FIRE MARSHAL CERTIFICATION

THE LOCAL FIRE OFFICAL HAVING JURISDICTION HAS REVIEWED AND APPROVED A SET OF DOCUMENTS IDENTICAL TO THIS SET OF DOCUMENTS ON 12/22/2020

DATE

А

A CONSTRUCTION PERMIT WILL BE ISSUED TO THE CONTRACTOR AT THE START OF CONSTRUCTION

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Nichsel W. Love

MICHAEL LOVE, ARCHITECT

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PROJECT INFORMATION

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PROJECT NAME LOST MOUNTAIN MIDDLE SCHOOL

PROJECT ADDRESS 700 OLD MOUNTAIN ROAD KENNESAW, GEORGIA 30152 OCCUPANCY CLASSIFICATION

EXISTING EDUCATION

CONSTRUCTION TYPE EXISTING BUILDING

SPRINKLER SYSTEM EXISTING SPRINKLER SYSTEM OCCUPANCY LOAD

EXISTING OCCUPANT LOAD

BUILDING AREA EXISTING BUILDING AREA

APPLICABLE BUILDING CODES

2018 INTERNATIONAL BUILDING CODE WITH GEORGIA AMENDMENTS 2017 NATIONAL ELECTRICAL CODE 2018 INTERNATIONAL GAS CODE WITH GEORGIA AMENDMENTS 2018 INTERNATIONAL MECHANICAL CODE WITH GEORGIA AMENDMENTS 2018 INTERNATIONAL PLUMBING CODE WITH GEORGIA AMENDMENTS 2015 INTERNATIONAL ENERGY CONSERVATION CODE 2010 ADA STANDARDS FOR ACCESSIBLE DESIGN 2018 NFPA LIFE SAFETY CODE 2018 INTERNATIONAL FIRE CODE 2018 INTERNATIONAL EXISTING BUILDING CODE 2018 NATIONAL GREEN BUILDING STANDARDS 2018 INTERNATIONAL MAINTENANCE CODE

PROJECT TEAM DIRECTORY

<u>OWNER</u>

COBB COUNTY SCHOOL DISTRICT (24 HOUR CONTACT) 440 GLOVER STREET MARIETTA, GEORGIA 30060 CONTACT: ANNETTE WYNN, SPLOST DIRECTOR DIRECT: 770-590-4582 MOBILE: 770-402-4021 EMAIL: annette.wynn@cobbk12.org

COBB COUNTY SCHOOL DISTRICT 440 GLOVER STREET

MARIETTA, GEORGIA 30060 CONTACT: KEN GODFREY, CONSTRUCTION MANAGER DIRECT: 770-590-4554 MOBILE: 678-314-0196 EMAIL: kenneth.godfrey@cobbk12.org

ARCHITECT

MWL ARCHITECTURE, LLC 17 SUMMERFIELD CROSSING ACWORTH, GEORGIA 30101 CONTACT: MICHAEL LOVE, ARCHITECT DIRECT: (770) 845-2034 EMAIL: michael.love@mwlarchitecture.com

<u>CIVIL ENGINEER</u>

RESERVED ADDRESS ADDRESS CONTACT: DIRECT: EMAIL:

STRUCTURAL ENGINEER

RESERVED ADDRESS ADDRESS CONTACT: DIRECT: EMAIL:

MECHANICAL ENGINEER

RESERVED

ADDRESS ADDRESS CONTACT: DIRECT: EMAIL:

PLUMBING ENGINEER

RESERVED ADDRESS ADDRESS CONTACT: DIRECT: EMAIL:

ELECTRICAL ENGINEER

BOLDEN WILLIAMS & ASSOCIATES 3066 HIGHWAY 29 SOUTH LAWRENCEVILLE, GEORGIA 30044 CONTACT: JEFF WILLIAMS DIRECT: (770) 279-0413 EMAIL: jwilliams@bolden-williams.com

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COBB COUNTY COMMUNITY DEVELOPMENT AGENCY

DEVELOPMENT AND INSPECTIONS 1150 POWDER SPRINGS STREET SUITE 400 MARIETTA, GEORGIA 30008 DIRECT: (770) 528-2043

COBB COUNTY FIRE AND EMERGENCY SERVICES 1595 COUNTY SERVICES PARKWAY SW MARIETTA, GEORGIA 30008 DIRECT: (770) 528-8000

COBB COUNTY HEALTH DEPARTMENT OFFICE OF ENVIRONMENTAL SAFETY 1738 COUNTY SERVICES PARKWAY MARIETTA, GEORGIA 30008 DIRECT: (770) 435-7815

GADOE

GEORGIA DEPARTMENT OF EDUCATION 1670 TWIN TOWERS EAST 205 JESSE HILL JR. DRIVE, SE ATLANTA, GEORGIA 30334 DIRECT: (404) 656-4466

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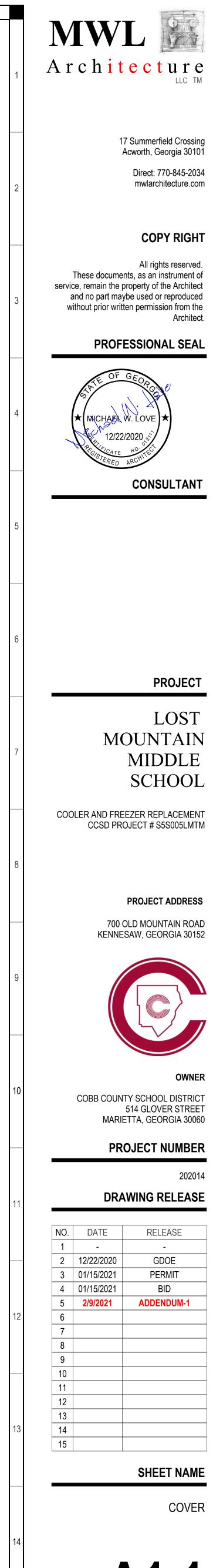
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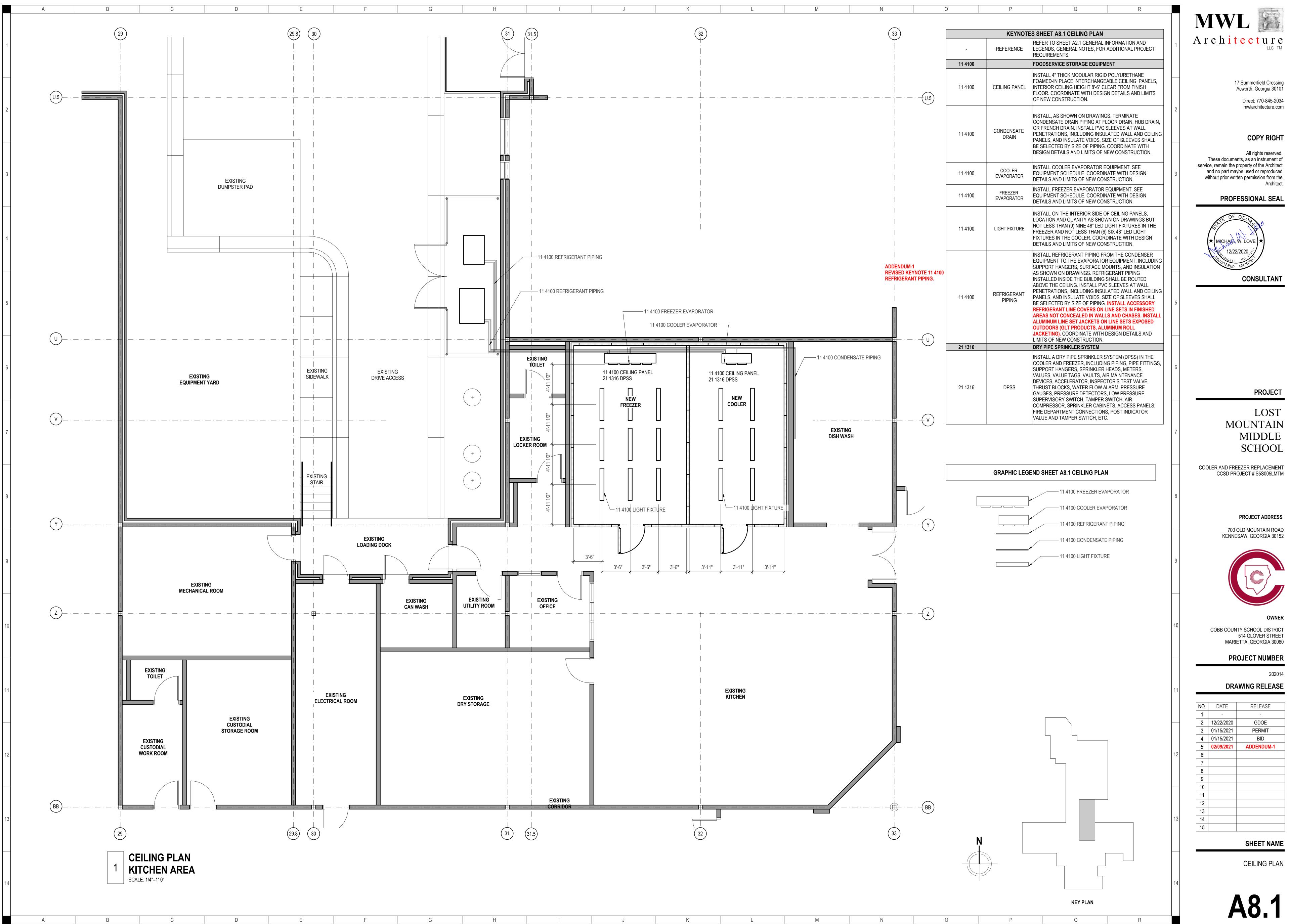
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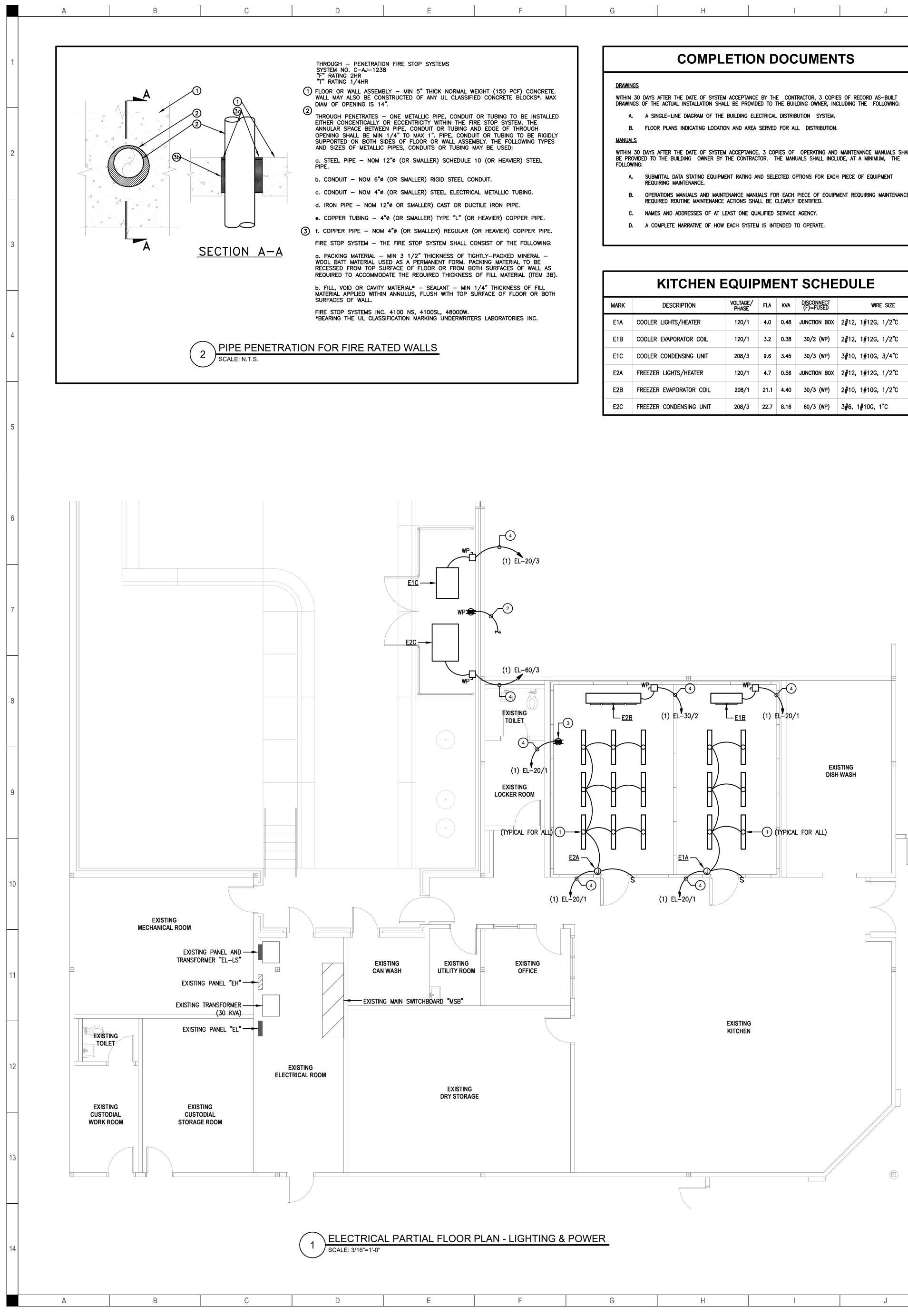
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	ELECTRICAL					1	1				
E1.1	ELECTRICAL LEGEND DETAILS NOTES AND FLOOR PLANS	-	12/22/2020	1/15/2021	1/15/2021	2/9/2021					
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WITHIN 30 DAYS AFTER THE DATE OF SYSTEM ACCEPTANCE, 3 COPIES OF OPERATING AND MAINTENANCE MANUALS SHALL

- OPERATIONS MANUALS AND MAINTENANCE MANUALS FOR EACH PIECE OF EQUIPMENT REQUIRING MAINTENANCE.

KITCHEN EQUIPMENT SCHEDULE								
MARK	DESCRIPTION	VOLTAGE/ PHASE	FLA	KVA	DISCONNECT (F)=FUSED	WIRE SIZE		
E1A	COOLER LIGHTS/HEATER	120/1	4.0	0.48	JUNCTION BOX	2#12, 1#12G, 1/2"C		
E1B	COOLER EVAPORATOR COIL	120/1	3.2	0.38	30/2 (WP)	2#12, 1#12G, 1/2"C		
E1C	COOLER CONDENSING UNIT	208/3	9.6	3.45	30/3 (WP)	3#10, 1#10G, 3/4"C		
E2A	FREEZER LIGHTS/HEATER	120/1	4.7	0.56	JUNCTION BOX	2#12, 1#12G, 1/2"C		
E2B	FREEZER EVAPORATOR COIL	208/1	21.1	4.40	30/3 (WP)	2#10, 1#10G, 1/2"C		
E2C	FREEZER CONDENSING UNIT	208/3	22.7	8.16	60/3 (WP)	3#6, 1#10G, 1"C		

K

- CONTRACTOR SHALL REMOVE AND/OR RELOCATE AS DIRECTED ALL ELECTRICAL APPURTENANCES AS REQUIRED BY REMOVALS OF APPURTENANCES. COORDINATE WITH ARCHITECT. ONLY DURING THOSE PERIODS WHICH HE HAS APPROVED IN WRITING. COORDINATE EXACT PHASING OF CONSTRUCTION WITH ARCHITECT. MINIMUM 10 DAYS ADVANCE NOTICE. ARCHITECTURAL AND MECHANICAL DRAWINGS FOR DEMOLITION.
- AS BEFORE RENOVATION. ALL EXISTING CIRCUITING.

	ABBREVI
ABBREVIATION	
AFF	ABOVE FINISHED FLOOR
AIC	AMPERE INTERRUPTING CAPACITY
ATS	AUTOMATIC TRANSFER SWITCH
CCSD	COBB COUNTY SCHOOL DISTRICT
GFCI	GROUND FAULT CIRCUIT INTERRUPT TYP
MLO	MAIN LUGS ONLY
NTS	NOT TO SCALE
SPD	SURGE PROTECTION DEVICE
WP	WEATHER PROOF (NEMA "3R") DEVICE

	ר דווג)
1	LIGHT FIXTURES PROVIDED BY OTHERS, INS COORDINATE WIRING REQUIREMENTS AND CO MANUFACTURER'S SHOP DRAWINGS PRIOR T
2	CIRCUIT TO EXISTING 120-VOLT, NON-COM
3	HEAT TRACE CIRCUIT. PROVIDE AND INSTAI PER FOOT COVERED WITH FEB TEFLON JAC THERMOSTAT FOR SURFACE MOUNTING TO (RAYCHEM XL-TRACE, CHROMALOX OR EQUIN FREEZER SPACE.
4	PROVIDE NEW HOMERUN TO EXISTING PANE CIRCUIT BREAKER CURRENTLY FEEDING UNI' CIRCUIT BREAKERS AS NEEDED FOR NEW E DIRECTORY.

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ELECTRICAL DEMOLITION NOTES

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ASSOCIATED WITH NEW CONSTRUCTION. DIVERT, EXTEND, RE-ROUTE, REPLACE, RECONNECT, OR OTHERWISE MAKE GOOD AND LEAVE IN SAFE WORKING ORDER ALL PORTIONS OF THE EXISTING ELECTRICAL INSTALLATION REQUIRED TO REMAIN IN USE DURING AND/OR AFTER THE COMPLETION OF WORK. THE CONTRACTOR SHALL COORDINATE WITH THE OWNER THE REMOVAL AND DISPOSAL OF ALL EXISTING ELECTRICAL MATERIAL WHICH IS NOT TO BE REUSED ON THE PROJECT. CONTRACTOR SHALL REMOVE AND STORE ANY ELECTRICAL MATERIAL IF SO DIRECTED BY OWNER. PATCH AND PAINT WALLS AND CEILINGS WORK IS TO BE CARRIED OUT WITHOUT UNNECESSARY INTERFERENCE WITH OWNER'S EXISTING FACILITIES AND OPERATIONS. POWER INTERRUPTIONS SHALL BE SCHEDULED WITH OWNER AND SHALL BE TAKEN

DEMOLITION OF EXISTING ELECTRICAL MATERIAL SHALL BE INCLUDED IN CONTRACTOR'S BID. REFER TO

EXISTING WALLS THAT ARE TO BE DEMOLISHED. REMOVE CIRCUITS BACK TO NEAREST DEVICE ON SAME CIRCUIT THAT SHALL REMAIN INTACT OR COMPLETELY BACK TO PANELBOARD. RECONNECT NEW WIRING TO EXISTING DEVICES ON SAME CIRCUIT "DOWNSTREAM" IN ORDER THAT THEY OPERATE IN SAME MANNER

ALL EXISTING ELECTRICAL ITEMS ON EXISTING CEILINGS SHALL BE REMOVED, STORED AND RE-INSTALLED ON NEW CEILINGS. ITEMS INCLUDE CLOCKS, CAMERAS, SPEAKERS, AND FIRE ALARM DEVICES. MAINTAIN

IATION LEGEND

DESCRIPTION

PE RECEPTACLE

NOTES

S SHEET ONLY)

STALLED BY ELECTRICAL CONTRACTOR. PROVIDE QUANTITY AS SHOWN. CONTROLS WITH KITCHEN EQUIPMENT SUPPLIER AND APPROVED TO ROUGH-IN.

IPUTER RECEPTACLE CIRCUIT.

TALL HEAT TAPE. HEAT TAPE SHALL BE U.L. LISTED, 5 OR 8 WATTS ACKET. FURNISH AND INSTALL JUNCTION BOX TERMINATION KIT AND CYCLE HEAT TAPE OFF ABOVE 40° AMBIENT. HEAT TAPE SHALL BE JIVALENT. PROVIDE AROUND ALL CONDENSATE PIPING WITHIN THE

. PROVIDE NEW CIRCUIT BREAKER AS INDICATED. REMOVE EXISTING VERIFY PANEL LOCATION PRIOR TO BID. REPOSITION EXISTING BREAKER INSTALLATION. PROVIDE UPDATED TYPED PANELBOARD

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	ELECTRICAL LEGEND
	HOMERUN TO PANELBOARD, LETTER INDICATES PANEL DESIGNATION, NUMBER INDICATES CIRCUIT NUMBER, SLASH MARKS INDICATES 2#12,1#12G,1/2"C. (/) INDICATES GREEN GROUND CONDUCTOR UNLESS INDICATED OTHERWISE ON SCHEDULES.
	CONDUIT CONCEALED IN CEILING OR WALL.
	CONDUIT CONCEALED IN SLAB OR BELOW GRADE.
	CIRCUIT BREAKER IN NEMA 1 ENCLOSURE.
Ī	DRY TYPE TRANSFORMER.
	PANELBOARD, 277/480V, 3 PHASE, 4 WIRE. NEW OR EXISTING AS INDICATED.
	PANELBOARD, 120/208V, 3 PHASE, 4 WIRE. NEW OR EXISTING AS INDICATED.
F	DISCONNECT SWITCH, "F" INDICATES FUSED, "WP" INDICATES WEATHERPROOF NEMA 3R ENCLOSURE.
	L.E.D. VAPOR-PROOF LIGHT FIXTURE. PROVIDED BY OTHERS, INSTALLED BY ELECTRICAL CONTRACTOR.
¢	20-AMP, 120-VOLT DUPLEX RECEPTACLE. MOUNT AT 18" AFF UNLESS NOTED OTHERWISE.
\$	20-AMP, 120-VOLT GFCI TYPE DUPLEX RECEPTACLE. MOUNT AT 18" AFF UNLESS NOTED OTHERWISE. "WP" INDICATES WEATHERPROOF, PROVIDE TAYMAC ENCLOSURE WITH "IN-USE" COVER.
٩	JUNCTION BOX.
S	TOGGLE SWITCH, "2" INDICATES 2 POLE, "3" INDICATES 3 WAY, "4" INDICATES 4 WAY, "P" INDICATES PILOT LIGHT, "M" INDICATES MANUAL MOTOR CONTROLLER.

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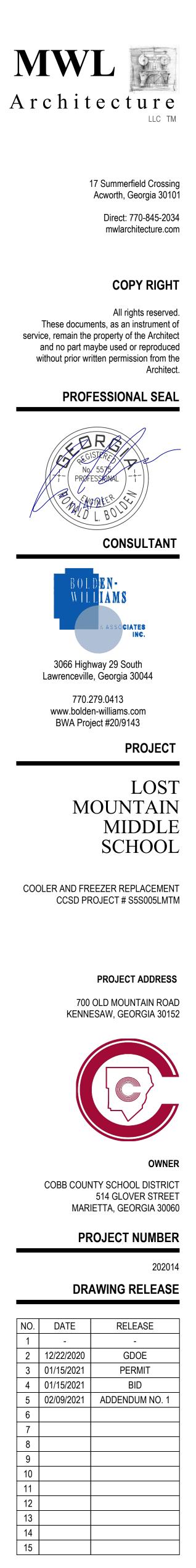
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ELECTRICAL GENERAL NOTES

- THE CONTRACTOR SHALL VISIT THE SITE OF THE PROPOSED PROJECT TO INSPECT THE EXISTING CONDITIONS AND DETERMINE THE SCOPE OF HIS WORK AND THE EXTENT OF DEMOLITION AND RENOVATION WORK. THE SITE INSPECTION SHALL BE MADE PRIOR TO SUBMITTING BID FOR THE PROPOSED PROJECT. NO COMPENSATION WILL BE ALLOWED FOR FAILURE TO INSPECT THE SITE. CONTRACTOR SHALL INFORM ARCHITECT PRIOR TO BIDDING OF DISCREPANCIES WHICH EXIST BETWEEN DRAWINGS AND ACTUAL FIELD CONDITIONS.
- OVERCURRENT PROTECTION, WIRE SIZE AND NUMBER OF CONNECTION POINTS FOR MECHANICAL HVAC EQUIPMENT IS FOR ITEMS AS SPECIFIED. COORDINATE WITH MECHANICAL CONTRACTOR AND MAKE NECESSARY CHANGES PRIOR TO INSTALLATION FOR ACTUAL EQUIPMENT FURNISHED AT NO COST TO OWNER. REFER TO MECHANICAL DRAWINGS FOR EXACT LOCATION OF MECHANICAL EQUIPMENT.
- 3. ALL RECEPTACLES WITHIN (6) FEET OF PLUMBING FIXTURES SHALL BE PROVIDED WITH 5 MILLIAMP GROUND FAULT INTERRUPTERS.
- 4. PROVIDE SEAL FOR PENETRATION OF FIRE RATED WALLS BY CONDUIT.
- 5. ALL WIRING SHALL BE IN METAL CONDUIT. EXCEPT FOR LOW VOLTAGE SYSTEMS IN PLENUM SPACES. 5. CONTRACTOR SHALL COORDINATE INSTALLATION OF NEW LIGHTING FIXTURES, RECEPTACLES, PANELBOARDS,
- ETC. WITH EXISTING STRUCTURE, PIPING, ETC. AND MAKE ADJUSTMENTS AS REQUIRED. PROVIDE ARC FLASH LABELING FOR ALL ELECTRICAL EQUIPMENT PER N.E.C. AND N.F.P.A. 70E.
- SWITCHGEAR MANUFACTURER SHALL PROVIDE COMPLETE ARC FLASH STUDY AND ALL EQUIPMENT LABELING. 3. PROVIDE FINISHED COVER PLATES FOR ALL JUNCTION BOXES.
- TERMINATIONS (LUGS, TERMINAL BLOCKS, ETC.) IN CIRCUIT BREAKERS, DISCONNECT SWITCHES, LIGHTING CONTACTORS, RELAYS, PANEL BOARDS, TIME SWITCHES, ETC. SHALL BE RATED FOR 75°C IN TEMPERATURE. IF TERMINATIONS IN EQUIPMENT SUCH AS EXHAUST FANS, WATER HEATERS, AIR CONDITIONING UNITS, ETC. ARE RATED FOR 60°C ONLY, THEN CONDUCTORS MUST BE DE-RATED AND USED IN COMPLIANCE WITH TABLE 310-16 OF CURRENT N.E.C. AND SIZED FOR THE 60°C COLUMN.
- 0. BRANCH CIRCUIT CONDUCTORS SHALL NOT BE SMALLER THAN NO.12 AND WHERE BRANCH CIRCUIT CONDUCTOR RUNS FROM SOURCE (PANEL) TO THE LAST DEVICE ON THE CIRCUIT EXCEEDS 100 FT. IN LENGTH, THE CONDUCTORS SHALL BE NO. 10 MINIMUM AND FOR THE ENTIRE LENGTH OF THE CIRCUIT. FOR RUNS OVER 200 FT. IN LENGTH THE CONDUCTOR SHALL BE NO. 8 MINIMUM AND FOR THE ENTIRE LENGTH OF THE CIRCUIT. THE ABOVE APPLIES TO 120 VOLT CIRCUITS ONLY.
- CONTRACTOR SHALL ASSURE THAT ALL WORK CLEARANCES PER THE N.E.C ARE MET OR EXCEEDED WITH EQUIPMENT FURNISHED PRIOR TO ROUGH-IN. NOTIFY ARCHITECT OF ANY DISCREPANCIES WITH THE ELECTRICAL PLANS.
- 2. BRANCH CIRCUITING WIRES SHALL NOT PASS THROUGH ELECTRICAL DEVICES (PANELS, DISCONNECT SWITCHES, CONTACTORS, ETC.) OTHER THAN THOSE DESIGNED FOR THE USE AS A JUNCTION BOX.
- 13. WIRE NUTS ARE NOT PERMITTED WITH IN THE ELECTRICAL PANEL OR ELECTRICAL DEVICES. ALL WIRING SHALL BE PULLED AT REQUIRED LENGTHS WITH OUT SPLICING WITHIN ELECTRICAL PANELS AND OTHER ELECTRICAL DEVICES.
- 14. IN REFRIGERATOR AND FREEZER INSTALL LIGHTS, GLOBES AND GUARD FURNISHED WITH EQUIPMENT. MAKE FULL CONNECTION WITH RIGID CONDUIT CEILING LIGHTS TO LIGHT AT DOOR AND CONNECT TO ANTI-SWEAT, DOOR HEATERS AND LIGHT SWITCHES. IN FREEZER, CONNECT TO HEATER AT RELIEF VENT AND LAMP FIXTURES. FROM LIGHTS, EXTEND RIGID CONDUIT UP THROUGH ROOF OF PREFAB AND INSTALL MANUFACTURER'S WIRING DIAGRAMS FOR EXACT ARRANGEMENT OF DEVICES AND MAKE ALL CONNECTIONS.
- 15. ALL CONDUIT WITHIN FREEZER/COOLERS SHALL BE "SEAL-TIGHT" WITH ALL CONNECTIONS SEALED TO PREVENT AIR ENTRY INTO CONDUITS.

- 16. COORDINATE EXACT ELECTRICAL REQUIREMENTS WITH APPROVED COOLER/FREEZER SHOP DRAWINGS PRIOR TO ROUGH-IN.
- 17. PROVIDE UPDATED TYPED PANELBOARD DIRECTORIES THAT CHANGE.
- 18. VERIFY EXACT VOLTAGE AND PHASE OF ALL COOLER/FREEZER EQUIPMENT PRIOR TO ROUGH-IN.
- 19. NO CONDUITS SHALL PENETRATE THE TOP OF EITHER ATS.



SHEET NAME

ELECTRICAL LEGEND, DETAILS, NOTES AND FLOOR PLANS

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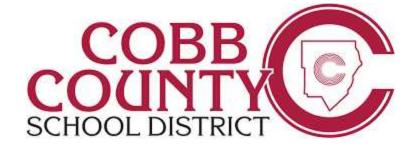
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COOLER AND FREEZER REPLACEMENT CCSD # S5S005HAYES



PROJECT LOCATION MAP 1501 KENNESAW DUE WEST ROAD KENNESAW, GEORGIA 30152



FIRE MARSHAL CERTIFICATION

THE LOCAL FIRE OFFICAL HAVING JURISDICTION HAS REVIEWD AND APPROVED A SET OF DOCUMENTS IDENTICAL TO THIS SET OF DOCUMENTS ON 12/22/2020

DATE

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A CONSTRUCTION PERMIT WILL BE ISSUED TO THE CONTRACTOR AT THE START OF CONSTRUCTION

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Nichael W. Love

MICHAEL LOVE, ARCHITECT

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PROJECT INFORMATION

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PROJECT NAME HAYES ELEMENTARY SCHOOL

F

PROJECT ADDRESS 1501 KENNESAW DUE WEST ROAD NW KENNESAW, GEORGIA 30152

OCCUPANCY CLASSIFICATION EXISTING EDUCATION

CONSTRUCTION TYPE EXISTING BUILDING

SPRINKLER SYSTEM EXISTING SPRINKLER SYSTEM

OCCUPANCY LOAD EXISTING OCCUPANT LOAD **BUILDING AREA**

EXISTING BUILDING AREA APPLICABLE BUILDING CODES

2018 INTERNATIONAL BUILDING CODE WITH GEORGIA AMENDMENTS 2017 NATIONAL ELECTRICAL CODE 2018 INTERNATIONAL GAS CODE WITH GEORGIA AMENDMENTS 2018 INTERNATIONAL MECHANICAL CODE WITH GEORGIA AMENDMENTS 2018 INTERNATIONAL PLUMBING CODE WITH GEORGIA AMENDMENTS 2015 INTERNATIONAL ENERGY CONSERVATION CODE 2010 ADA STANDARDS FOR ACCESSIBLE DESIGN 2018 NFPA LIFE SAFETY CODE 2018 INTERNATIONAL FIRE CODE 2018 INTERNATIONAL EXISTING BUILDING CODE 2018 NATIONAL GREEN BUILDING STANDARDS 2018 INTERNATIONAL MAINTENANCE CODE

PROJECT TEAM DIRECTORY

<u>OWNER</u>

COBB COUNTY SCHOOL DISTRICT (24 HOUR CONTACT) 440 GLOVER STREET MARIETTA, GEORGIA 30060 CONTACT: ANNETTE WYNN, SPLOST DIRECTOR DIRECT: 770-590-4582 MOBILE: 770-402-4021 EMAIL: annette.wynn@cobbk12.org

COBB COUNTY SCHOOL DISTRICT 440 GLOVER STREET MARIETTA, GEORGIA 30060 CONTACT: KEN GODFREY, CONSTRUCTION MANAGER DIRECT: 770-590-4554 MOBILE: 678-314-0196 EMAIL: kenneth.godfrey@cobbk12.org

ARCHITECT

MWL ARCHITECTURE, LLC 17 SUMMERFIELD CROSSING ACWORTH, GEORGIA 30101 CONTACT: MICHAEL LOVE, ARCHITECT DIRECT: (770) 845-2034 EMAIL: michael.love@mwlarchitecture.com

<u>CIVIL ENGINEER</u>

RESERVED ADDRESS ADDRESS CONTACT: DIRECT: EMAIL:

STRUCTURAL ENGINEER

RESERVED ADDRESS ADDRESS CONTACT: DIRECT: EMAIL:

MECHANICAL ENGINEER

RESERVED ADDRESS ADDRESS CONTACT: DIRECT: EMAIL:

PLUMBING ENGINEER

RESERVED ADDRESS ADDRESS CONTACT: DIRECT: EMAIL:

F

ELECTRICAL ENGINEER

BOLDEN WILLIAMS & ASSOCIATES 3066 HIGHWAY 29 SOUTH LAWRENCEVILLE, GEORGIA 30044 CONTACT: JEFF WILLIAMS DIRECT: (770) 279-0413 EMAIL: jwilliams@bolden-williams.com

G H

COBB COUNTY COMMUNITY DEVELOPMENT AGENCY

DEVELOPMENT AND INSPECTIONS 1150 POWDER SPRINGS STREET SUITE 400 MARIETTA, GEORGIA 30008

DIRECT: (770) 528-2043 COBB COUNTY FIRE AND EMERGENCY SERVICES 1595 COUNTY SERVICES PARKWAY SW MARIETTA, GEORGIA 30008

COBB COUNTY HEALTH DEPARTMENT OFFICE OF ENVIRONMENTAL SAFETY 1738 COUNTY SERVICES PARKWAY MARIETTA, GEORGIA 30008 DIRECT: (770) 435-7815

DIRECT: (770) 528-8000

GADOE

GEORGIA DEPARTMENT OF EDUCATION 1670 TWIN TOWERS EAST 205 JESSE HILL JR. DRIVE, SE ATLANTA, GEORGIA 30334 DIRECT: (404) 656-4466

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DRAWING INDEX

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	RELEASE										
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SHEET NO.	SHEET NAME					ADDENDOMPT					
A1.1	COVER	-	12/22/2020	1/15/2021	1/15/2021	2/9/2021		T			
/(1.1	CIVIL		12/22/2020	1/10/2021	1/10/2021						
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A2.1	GENERAL INFORMATION & LEGENDS	-	12/22/2020	1/15/2021	1/15/2021	-		T			
A3.1	DEMOLITION PLAN		12/22/2020	1/15/2021	1/15/2021	2/9/2021					
A4.1	ARCHITECTURAL SITE PLAN		-	-	-						
A5.1	FOUNDATION PLAN		12/22/2020	1/15/2021	1/15/2021						
A6.1	FLOOR PLAN	11/4/2020	12/22/2020	1/15/2021	1/15/2021	2/9/2021					
A7.1	FLOOR FINISH PLAN	-	-	-	-						
A8.1	CEILING PLAN		12/22/2020	1/15/2021	1/15/2021	2/9/2021					
A9.1	ROOF PLAN		-	-	-						
A10.1	EXTERIOR BUILDING ELEVATIONS		_			_					
A11.1	INTERIOR BUILDING ELEVATIONS		12/22/2020	1/15/2021	1/15/2021	_					
A12.1	BUILDING SECTIONS		12/22/2020	-		_					
A13.1	WALL SECTIONS		12/22/2020	1/15/2021	1/15/2021	_					
A14.1	STAIRS		-	-	-						
A15.1	ELEVATOR										
A16.1	DETAILS		12/22/2020	1/15/2021	1/15/2021						
A16.2	DETAILS		-	1/15/2021	1/15/2021						
A17.1	CASEWORK		_	-	-						
A17.1 A18.1	DOORS			1/15/2021	1/15/2021						<u> </u>
A19.1	WINDOWS		_	-	-						
A20.1	SCHEDULES		12/22/2020	1/15/2021	1/15/2021	2/9/2021					
7120.1	STRUCTURAL		12/22/2020	1/10/2021	1/10/2021	2/3/2021					
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E1.1	ELECTRICAL LEGEND NOTES SCHEDULES DETAILS	-	12/22/2020	1/15/2021	1/15/2021	2/9/2021					
E2.1	ELECTRICAL FLOOR PLANS LIGHTING POWER	_	12/22/2020	1/15/2021	1/15/2021	2/9/2021					<u> </u>
E3.1	ELECTRICAL RISER DIAGRAM NOTES SCHEDULES	-	12/22/2020	1/15/2021	1/15/2021	2/9/2021					<u> </u>
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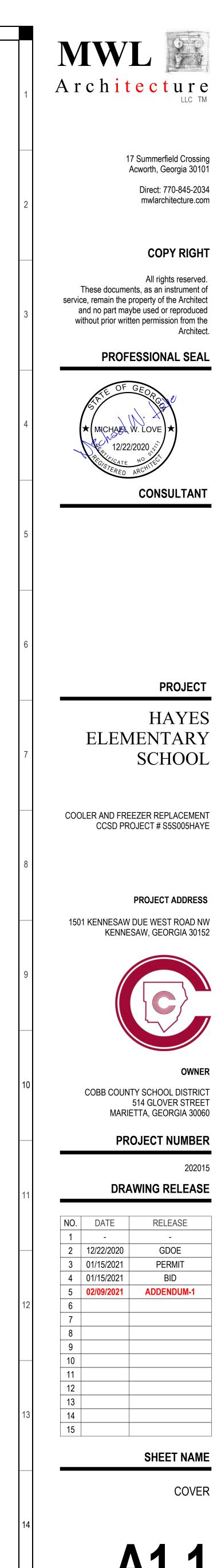
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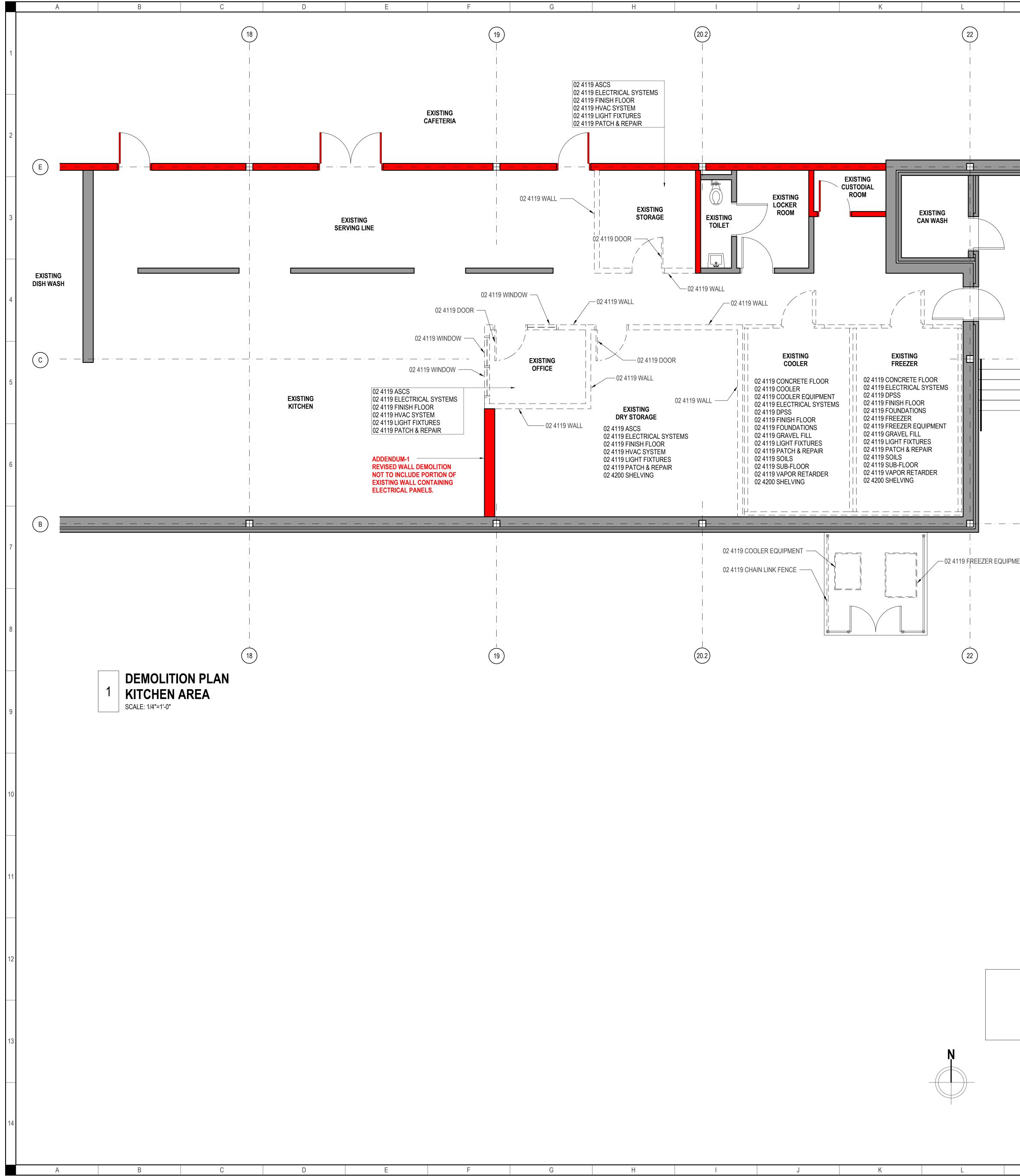
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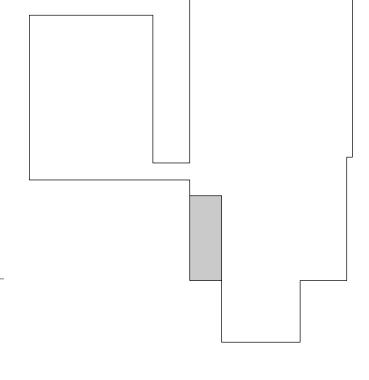
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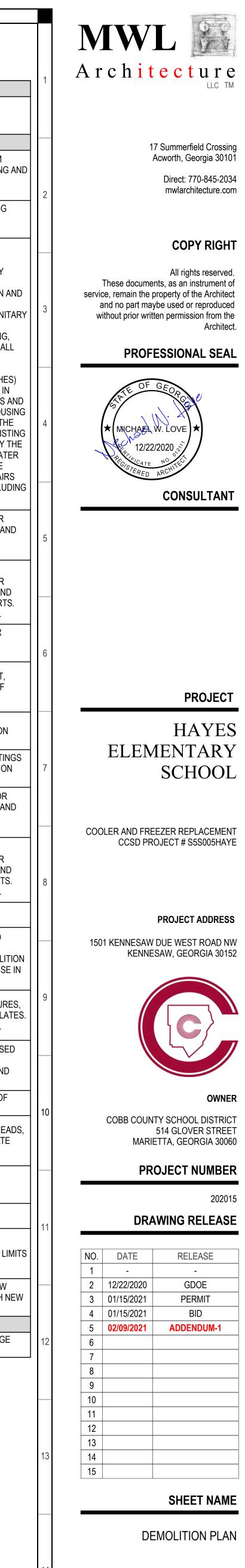
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				-	REFERENCE	IOTES SHEET A3.1 DEMOLITION PLAN REFER TO SHEET A2.1 GENERAL INFORMATION AND LEGENDS, GENERAL DEMOLITION NOTES, FOR ADDITIONAL PROJECT REQUIREMENTS.
				02 4119		SELECTIVE DEMOLITION
				02 4119	ASCS	DEMO THE EXISTING ACOUSTICAL SUSPENSION CEILING SYSTEM (ASCS) INCLUDING CEILING TILES, GRID SYSTEM, SUPPORT WIRING / HANGERS. COORDINATE LIMITS OF DEMOLITION WITH NEW CONSTRUCTION.
			E	02 4119	CHAIN LINK FENCE	DEMO THE EXISTING SECTION OF CHAIN LINK FENCING INCLUDING RAILS, POST, MESH AND HARDWARE. COORDINATE LIMITS OF DEMOLITION WITH NEW CONSTRUCTION.
				02 4119	CONCRETE FLOOR	DEMO THE EXISTING CONCRETE FLOOR SLAB AND ALL STEEL REINFORCING. COORDINATE LIMITS OF DEMOLITION WITH NEW CONSTRUCTION. PRIOR TO THE CONTRACTOR DEMOLISHING ANY EXISTING CONCRETE FLOOR SLABS, THE CONTRACTOR SHALL IMPLEMENT GROUND PENETRATING RADAR EQUIPMENT TO SCAN AL DETERMINE THE PRESENCE OF ANY EXISTING UNDERGROUND CONDUIT HOUSING ELECTRICAL WIRING, WATER SUPPLY, OR SANIT/ DRAINAGE. SHOULD THE SCAN IDENTIFY THE PRESENCE OF ANY EXISTING UNDERGROUND CONDUIT HOUSING ELECTRICAL WIRING, WATER SUPPLY, OR SANITARY DRAINAGE; THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE OWNER AND ARCHITECT IN WRITING, INCLUDING SUBMITTING THE DATA REPORT IDENTIFYING THE LOCATION (POINT OF REFERENCE, X,Y, AND Z COORDINATE (INCHESS AND LENGTH OF RUN) OF THE EXISTING CONDUIT OR CONDUITS. IN ADDITION, THE CONTRACTOR SHALL SUBMIT RECOMMENDATIONS A COST TO RELOCATE ANY EXISTING UNDERGROUND CONDUIT HOUS ELECTRICAL WIRING, WATER SUPPLY, OR SANITARY DRAINAGE. THE CONTRACTOR SHALL NOT PROCEED WITH DEMOLISHING THE EXIST CONCRETE FLOOR SLAB UNTIL WRITTEN DIRECTION IS ISSUED BY TI OWNER. ANY DAMAGE TO THE EXISTING ELECTRICAL WIRING, WATE SUPPLY, OR SANITARY DRAINAGE CONDUITS SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR AND ALL COST FOR REPAIRS SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR INCLUD TIME DELAYS AND DESIGN COST.
				02 4119	COOLER	DEMO THE EXISTING COOLER, INCLUDING THE INSULATED FLOOR PANELS, WALL PANELS, CEILING PANELS, CLOSURE TRIM; DOOR ANI DOOR PANEL. COORDINATE LIMITS OF DEMOLITION WITH NEW CONSTRUCTION.
				02 4119	EQUIPMENT	DISCONNECT AND DEMO THE EXISTING COOLER EQUIPMENT, INCLUDING THE EVAPORATOR, CONDENSER, ELECTRICAL POWER BOXES, SWITCHES, CONDUITS, WIRING, REFRIGERANT SUPPLY AND RETURN LINES, CONDENSATION LINES, AND EQUIPMENT SUPPORTS COORDINATE LIMITS OF DEMOLITION WITH NEW CONSTRUCTION.
				02 4119		DEMO EXISTING DOOR(S) INCLUDING THE HARDWARE AND DOOR FRAME. COORDINATE LIMITS OF DEMOLITION WITH NEW CONSTRUCTION.
				02 4119	ELECTRICAL SYSTEMS	DEMO THE EXISTING ELECTRICAL SYSTEMS INCLUDING CONDUIT, WIRING, JUNCTION BOXES, AND DEVICES. COORDINATE LIMITS OF DEMOLITION WITH NEW CONSTRUCTION.
		 	В	02 4119	FINISH FLOOR	DEMO THE EXISTING FINISH FLOORING INCLUDING ADHESIVES, FASTENERS AND WALL BASE. COORDINATE LIMITS OF DEMOLITION WITH NEW CONSTRUCTION.
 19 FREEZER EQUIPMENT				02 4119	FOUNDATIONS	DEMO THE EXISTING FOUNDATIONS INCLUDING CONCRETE FOOTING AND ALL STEEL REINFORCING. COORDINATE LIMITS OF DEMOLITION WITH NEW CONSTRUCTION.
				02 4119	FREEZER	DEMO THE EXISTING FREEZER, INCLUDING THE INSULATED FLOOR PANELS, WALL PANELS, CEILING PANELS, CLOSURE TRIM; DOOR ANI DOOR PANEL. COORDINATE LIMITS OF DEMOLITION WITH NEW CONSTRUCTION.
				02 4119	EQUIPMENT	DISCONNECT AND DEMO THE EXISTING FREEZER EQUIPMENT INCLUDING THE EVAPORATOR, CONDENSER, ELECTRICAL POWER BOXES, SWITCHES, CONDUITS, WIRING, REFRIGERANT SUPPLY AND RETURN LINES, CONDENSATION LINES AND EQUIPMENT SUPPORTS. COORDINATE LIMITS OF DEMOLITION WITH NEW CONSTRUCTION.
22				02 4119		REMOVE THE EXISTING GRAVEL FILL. COORDINATE LIMITS OF REMOVAL WITH NEW CONSTRUCTION.
				02 4119		DEMO THE EXISTING HVAC SYSTEM INCLUDING THE SUPPLY AND RETURN DUCT LINES, SUPPLY AND RETURN DIFFUSERS AND ALL SUPPORT WIRING AND HANGERS. COORDINATE LIMITS OF DEMOLITI WITH NEW CONSTRUCTION. HVAC EQUIPMENT TO REMAIN FOR USE RE-DESIGNED DRY STORAGE ROOMS.
				02 4119	LIGHT FIXTURES	DEMO THE EXISTING LIGHTING SYSTEM INCLUDING LAMPS, FIXTURE CONDUITS, WIRING, JUNCTION BOXES, SWITCHES, AND COVER PLAT COORDINATE LIMITS OF DEMOLITION WITH NEW CONSTRUCTION.
				02 4119	PATCH AND REPAIR	PROMPTLY REPAIR DAMAGE TO ADJACENT CONSTRUCTION CAUSED BY SELECTIVE DEMOLITION OPERATIONS. COMPLY WITH REQUIREMENTS OF SPECIFICATION SECTION 01 7329 CUTTING AND PATCHING.
				02 4119	SOILS	REMOVE THE EXISTING COMPACTED SOIL. COORDINATE LIMITS OF REMOVAL WITH NEW CONSTRUCTION.
				02 4119	SPRINKLER SYSTEM	DEMO THE EXISTING DRY PIPE SPRINKLER SYSTEM INCLUDING HEAD PIPING, CONNECTIONS, SUPPORTS, AND EQUIPMENT. COORDINATE LIMITS OF DEMOLITION WITH NEW CONSTRUCTION.
				02 4119	SUB-FLOOR	DEMO THE EXISTING SUB-FLOOR INCLUDING ADHESIVES AND FASTENERS. COORDINATE LIMITS OF DEMOLITION WITH NEW CONSTRUCTION.
				02 4119	VAPOR RETARDER	DEMO THE EXISTING VAPOR RETARDER. COORDINATE LIMITS OF DEMOLITION WITH NEW CONSTRUCTION.
				02 4119	WALL	DEMO THE EXISTING WALL(S) INCLUDING THE MASONRY, STEEL REINFORCING, FRAMING, INSULATION, AND FINISH. COORDINATE LIN OF DEMOLITION WITH NEW CONSTRUCTION.
				02 4119 02 4200		DEMO EXISTING WINDOW(S) INCLUDING THE HARDWARE, WINDOW FRAME, AND GLAZING. COORDINATE LIMITS OF DEMOLITION WITH NE CONSTRUCTION. REMOVAL AND SALVAGE OF CONSTRUCTION MATERIALS
				02 4200	SHELVING	REMOVE, STORE, AND RE-INSTALL SHELVING IN THE DRY STORAGE
						ROOM AND FREEZER AND COOLER.



KEY PLAN

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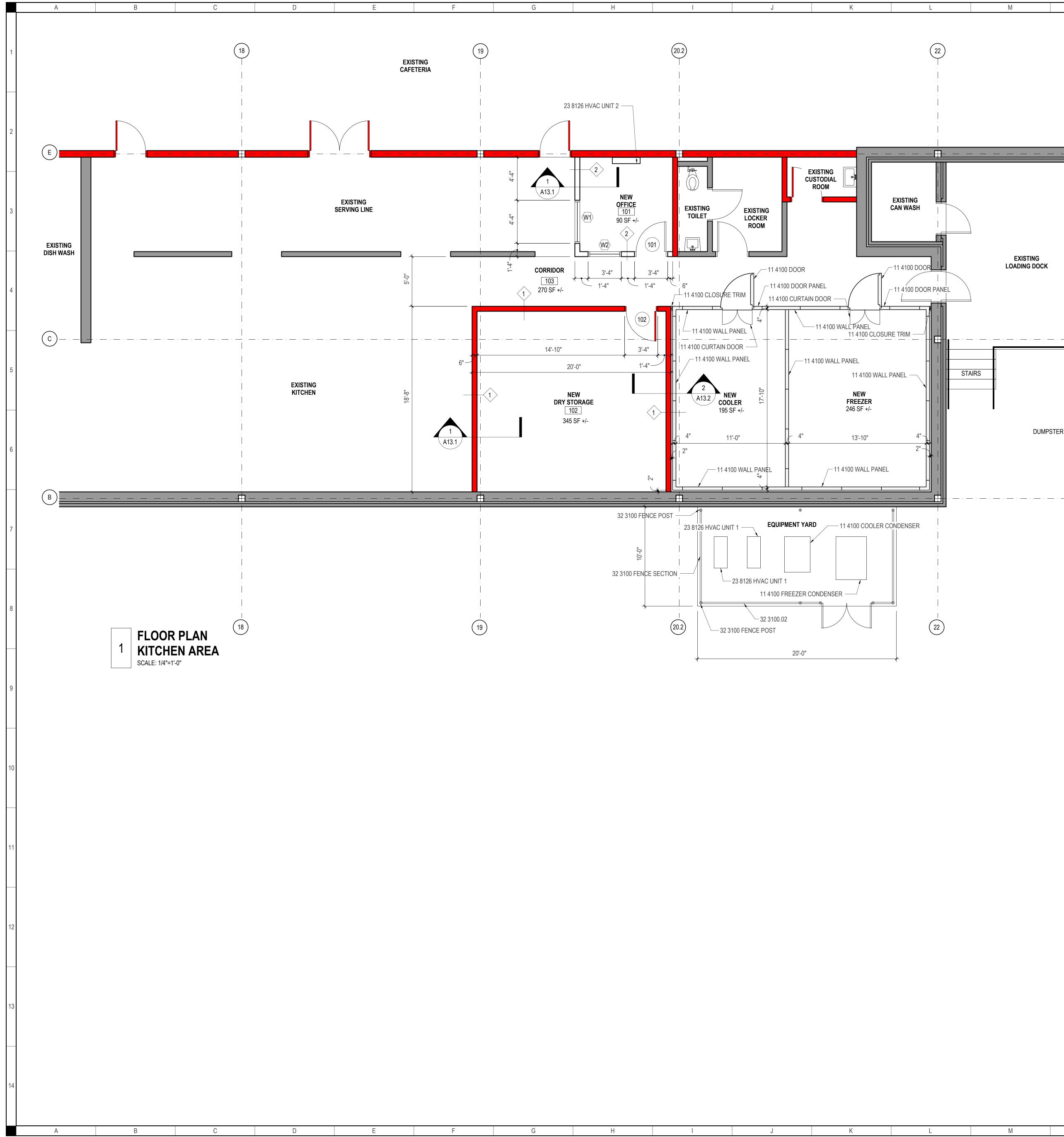
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22		23		K	EYNOTES SHEET A6.1 FLOOR PLAN				
· · ·			- 11 4100	REFERENCE	REFER TO SHEET A2.1 GENERAL INFORMATION AND LEGENDS, GENERAL NOTES, FOR ADDITIONAL PROJECT REQUIREMENTS. FOODSERVICE STORAGE EQUIPMENT				
			11 4100		INSTALL CLOSER TRIM MATCHING COOLER/FREEZER WALL PANEL II MATERIAL, COLOR, AND FINISH. INSTALL FIRE RETARDANT TREATED WOOD BLOCKING FOR BACKING, INSTALL SEALANT. COORDINATE WITH DESIGN DETAILS AND LIMITS OF NEW CONSTRUCTION.				
<u> </u>			11 4100	COOLER CONDENSER	INSTALL COOLER CONDENSER EQUIPMENT. SEE EQUIPMENT SCHEDULE. COORDINATE WITH DESIGN DETAILS AND LIMITS OF NE CONSTRUCTION.				
			11 4100		INSTALL CURTAIN DOOR, CURTRON PP-C-080-3678. COORDINATE WITH DESIGN DETAILS AND LIMITS OF NEW CONSTRUCTION.				
			11 4100	DOOR	INSTALL 36"X78" DOOR WITH VISION PANEL. COORDINATE WITH DESIGN DETAILS AND LIMITS OF NEW CONSTRUCTION.				
	EXISTING LOADING DOCK		11 4100	DOOR PANEL	INSTALL 4" THICK MODULAR RIGID POLYURETHANE FOAMED-IN PLACE INTERCHANGEABLE DOOR PANEL. DOOR PANEL SHALL BE INSTALLED TO ENSURE THAT THE TOP OF EACH DOOR PANEL ALIGNS EVENLY WITH THE ADJACENT WALL PANEL. COORDINATE WITH DESIGN DETAILS AND LIMITS OF NEW CONSTRUCTION.				
			11 4100	FREEZER CONDENSER	INSTALL FREEZER CONDENSER EQUIPMENT. SEE EQUIPMENT SCHEDULE. COORDINATE WITH DESIGN DETAILS AND LIMITS OF NE CONSTRUCTION.				
	· · · · · · ·		11 4100	WALL PANEL	INSTALL 4" THICK MODULAR RIGID POLYURETHANE FOAMED-IN PLACE INTERCHANGEABLE WALL PANELS, WALL PANELS SHALL BI INSTALLED TO ENSURE THAT THE TOP OF EACH WALL PANEL ALIGI EVENLY WITH THE ADJACENT WALL PANEL. COORDINATE WITH DESIGN DETAILS AND LIMITS OF NEW CONSTRUCTION.				
STAIRS			23 8126		SPLIT SYSTEM AIR CONDITIONERS				
	DUMPSTER PAD		23 8126	HVAC UNIT 1	INSTALL MINI SPLIT OUTDOOR EQUIPMENT. SEE EQUIPMENT SCHEDULE.				
		ADDENDUM-1	23 8126	HVAC UNIT 2	INSTALL MINI SPLIT INDOOR EQUIPMENT, WALL INSTALLATION. SE EQUIPMENT SCHEDULE.				
			32 3100		FENCES AND GATES				
			32 3100	FENCE POST	INSTALL FENCE POST(S) INCLUDING TERMINAL, INTERMEDIATE, AN CORNER POSTS, 3" O.D. SCHEDULE 40 HOT DIPPED GALVANIZED STEEL PIPE, TYPICAL. COORDINATE WITH DESIGN DETAILS AND LIMITS OF NEW CONSTRUCTION.				
		$- \begin{bmatrix} 1 \\ 1 \\ 1 \end{bmatrix} - 1 - \begin{bmatrix} 1 \\ 1 \end{bmatrix}$	32 3100		INSTALL FENCE SECTION(S) INCLUDING TOP, INTERMEDIATE, AND BOTTOM RAIL, BRACE BANDS, RAIL ENDS, TENSION BARS, TENSION BANDS, FABRIC MESH. COORDINATE WITH DESIGN DETAILS AND LIMITS OF NEW CONSTRUCTION.				
					WALL TYPES SHEET A6.1 FLOOR PLAN				
)			1 CE GY CA HO	1 5 5/8" CMU, 1-HOUR RATED, FROM FINISH FLOOR TO A MINIMUM OF 4" ABOVE I CEILING. EXTEND 3 5/8" NON-STRUCTURAL METAL FRAMING AT 16" O.C WITH 5 GYPSUM BOARD ON EACH SIDE, FROM TOP OF CMU TO METAL ROOF DECK AN CAVITY WITH SAFB INSULATION. SEAL ENTIRE PERIMETER AND ALL PENETRAT HOUR FIRE RATED SEALANT. UL DESIGN # U425 FOR NON-STRUCTURAL META WALL SYSTEM.					
		\smile	NU HE	MBER OF MARKING IGHT SHALL BE A M	LY IDENTIFICATION SHALL BE MARKED ABOVE THE FINISH CEILING. IS PER IBC 703.7. STENCIL SHALL BE LASER CUT MYLAR. LETTERING INIMUM OF 3 INCHES. THE TYPE SHALL READ "ONE HOUR FIRE IL OPENINGS". PAINT COLOR SHALL BE RGB (255,0,0) = RED.				
			2 NO	N-STRUCTURAL ME CH SIDE, FROM TOF	SH FLOOR TO A MINIMUM OF 4" ABOVE FINISH CEILING. EXTEND 3 5/ TAL FRAMING AT 16" O.C WITH 5/8" TYPE "X" GYPSUM BOARD ON P OF CMU TO METAL ROOF DECK ABOVE. FILL CAVITY WITH SAB TIRE PERIMETER AND ALL PENETRATIONS WITH SEALANT.				

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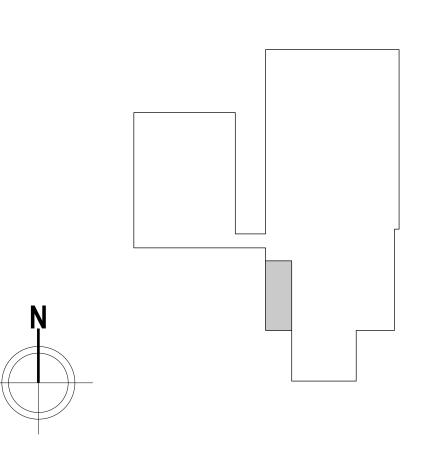
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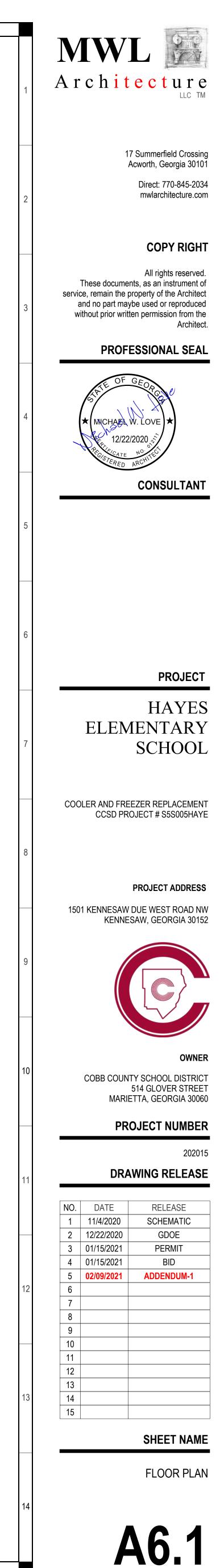
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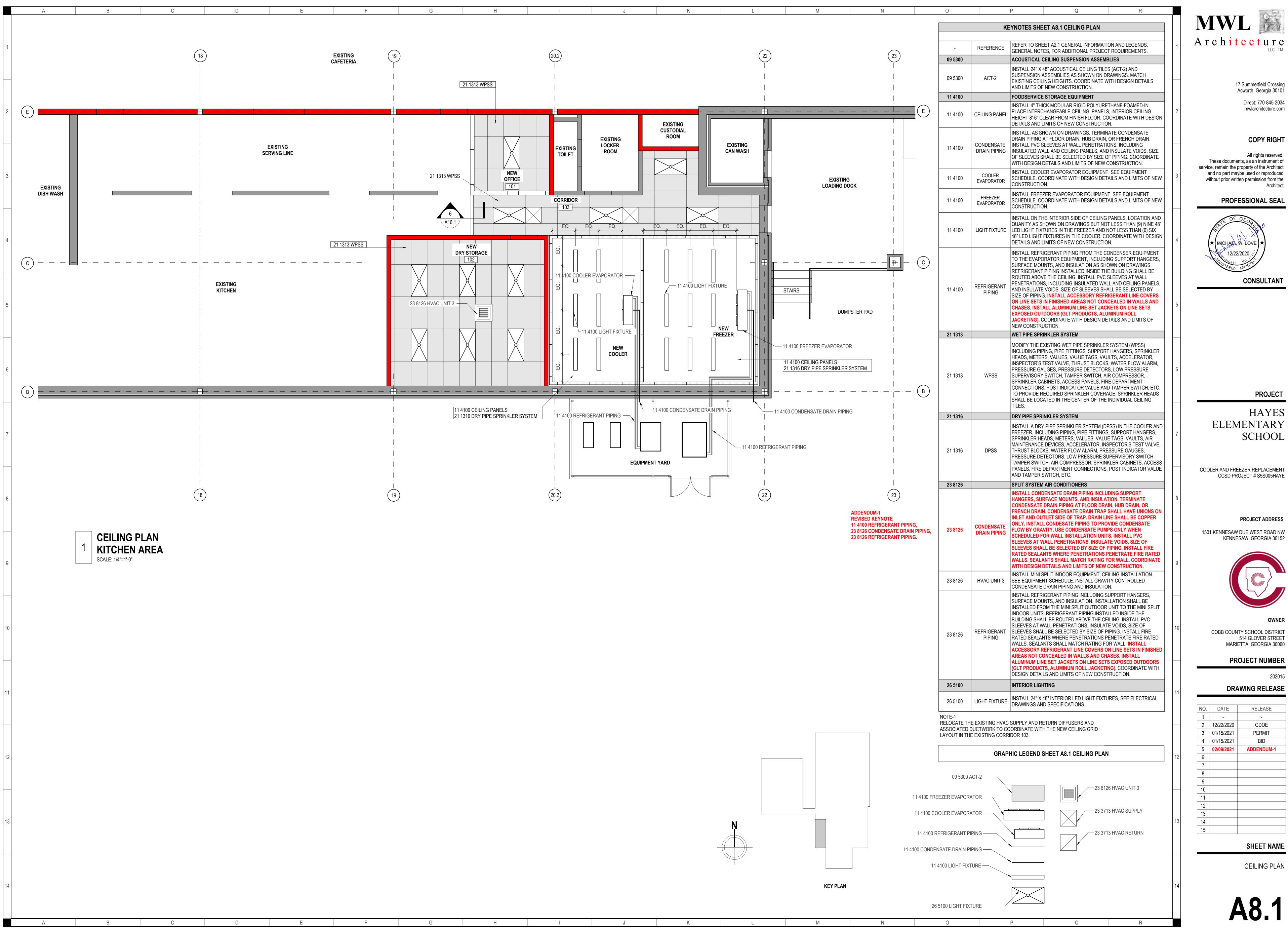
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KEY PLAN

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ADDENDUM-1 NOTES SHEET A20.1 SCHEDULES MAINTENANCE SERVICE & REPAIRS 1. CONTRACTOR TO ARRANGE FOR QUALIFIED EQUIPMENT SERVICE TECHNICIANS TO PROVIDE PREVENTATIVE SERVICE EVERY 3 MONTHS (MINIMUM 4 TIMES) WITHIN THE ONE-YEAR WARRANTY PERIOD TO KEEP ALL SYSTEMS OPERATING IN FIRST-CLASS WORKING ORDER. SERVICE OUTLINED BELOW. 2. CONTRACTOR SHALL COORDINATE SERVICE TIMES WITH THE CCSD'S MAINTENANCE MANAGER AT LEAST ONE WEEK PRIOR TO PROPOSED REGULAR SERVICING SCHEDULE. 3. CONTRACTOR SHALL ALSO NOTIFY THE CCSD'S MAINTENANCE MANAGER PRIOR TO EACH EQUIPMENT REPAIR VISIT. 4. OWNER'S MAINTENANCE PERSONNEL SHALL BE PRESENT DURING ALL SERVICING AND REPAIR ACTIVITIES. CONTRACTOR MUST DOCUMENT EACH VISIT AND HAVE CCSD'S MAINTENANCE EMPLOYEE ACKNOWLEDGE THE WORK WAS ACCOMPLISHED BY SIGNING THE FORM. 5. THE CONTRACTOR AGREES TO PROVIDE AN ADDITIONAL TWO YEARS OF WARRANTY FOR ALL HVAC UNITS IN THE EVENT THE ABOVE REQUIRED PREVENTATIVE MAINTENANCE IS NOT COORDINATED WITH CCSD MAINTENANCE AND PERFORMED WITHIN THE NECESSARY TIMEFRAMES. SERVICE REQUIREMENTS 1. COOLING TOWER, DRAIN AND CLEAN AT EACH VISIT. CHECK BELT AND FAN OPERATION. CHECK OPERATION OF SUMP HEATER. 2. BOILER, TEST FIRE AND CHECK ALL SAFETIES. 3. GAS FIRED ROOFTOP EQUIPMENT, TEST COMPRESSOR(S) OPERATION. TEST FIRE HEAT. CHECK BELTS. CHECK GENERAL OPERATION OF UNIT. CHECK FOR EXCESSIVE RUST OR CORROSION ON TOP OF UNIT. CLEAN CONDENSATION DRAIN TRAP. 4. WATER SOURCE HEAT PUMP, CHECK OPERATION OF COMPRESSOR AND BLOWER MOTOR. CHECK OPERATION OF ISOLATION VALVE IF APPLICABLE. SPOT CHECK Y-STRAINER SCREENS AT DIFFERENT LOCATIONS THROUGHOUT BUILDING TO INSURE LOOP WATER CLEANLINESS. 5. ERU/DOAS, CHECK BELT(S) IF APPLICABLE. CHECK OPERATION OF COMPRESSOR(S) TEST FIRE HEAT. 6. SPLIT SYSTEMS, CHECK GENERAL OPERATION. 7. DUCTLESS MINI-SPLITS, CHECK GENERAL OPERATION. 8. WALL MOUNT UNITS, CHECK GENERAL OPERATION. 9. CHANGE FILTERS IN ALL EQUIPMENT EACH VISIT. EQUIPMENT WARRANTY 1. THE WARRANTY FOR ALL EQUIPMENT SHOULD BE 5 YEAR COMPRESSOR WARRANTY INCLUDING LABOR. 2. 5 YEAR REFRIGERANT LEAK WARRANTY INCLUDING LABOR.

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Manufacturan	Outdoor Unit Single Zone Heat	Pump Ductiess System	
Manufacturer:	Carrier		
Outdoor Model:	38MAQB09R-3		
System	Size		9
,	Outdoor Model		38MAQB09R-3
	Voltage, Phase, Cycle	VPh/Hz	208/230-1-60
Electrical	МСА	A.	9
	MOCP-Fuse Rating	A.	15
Operating Range	Cooling Outdoor DB Min-Max	°F(°C)	-13~122 (-25~50)
	Heating Outdoor DB Min-Max	°F(°C)	-22~86 (-30~30)
	Total Piping Length	ft(m)	82 (25)
Dining	Piping Lift	ft(m)	32 (10)
Piping	Pipe Connection Size-Liquid	in (mm)	1/4 (6.35)
	Pipe Connection Size-Suction	in (mm)	3/8 (9.52)
	Refrigerant Type		R410A
Refrigerant	Metering Device		EEV
	Charge	lbs (kg)	3.31 (1.5)
	Face Area	Sq. Ft.	4.5
	No. Rows		2
Outdoor Coil	Fins per inch		18
	Circuits		4
	Туре		Rotary Inverter
	Model		ATM115D43UFZ2
Compressor	Oil Type		VG74
·	Oil Charge	FI.Oz.	17.6
	Rated Current	RLA	5.3
	Unit Width	in (mm)	32.09 (815)
	Unit Height	in (mm)	21.81 (554)
	Unit Depth	in (mm)	13.11 (333)
Outdoor	Net Weight	lbs (kg)	91.5 (41.5)
	Airflow	CFM	1,200
	Sound Pressure	db(A)	55.5
WARRANTY	PROVIDE MANUFACTURER'S STANDARD WAF SHALL PROVIDE A MINIMUM 5 YEAR COMPRE MATERIAL AND LABOR.	RRANTY ON ALL PARTS AND LAE	3OR. THE CONTRACTOR

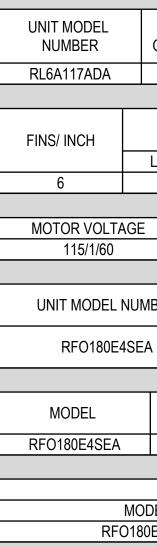
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ADDENDUM-1 REVISE FINISH SCHEDULE FOR THE DRY STORAGE ROOM 101, OFFICE 102, & CORRIDOR 103. FLOOR & BASE FINISH SHALL BE QUARRY TILE.

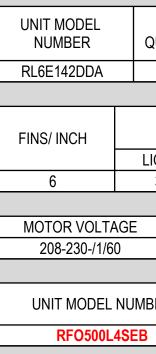
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				FINISH SCHEDU	LE			
ROOM	ROOM NAME		FLOOR AREA	FLOOR	BASE	WALLS	CEILING	REMARKS
NUMBER			NET SF (+/-)	TLOOK	DAGE	WALLS	GEILING	ILEMAIN S
101	DRY STORAGE		345	QUARRY TILE	QUARRY TILE	PAINT	ACT-2	-
102	OFFICE		90	QUARRY TILE	QUARRY TILE	PAINT	ACT-2	-
103	CORRIDOR		270	QUARRY TILE	QUARRY TILE	PAINT	ACT-2	-
-	FREEZER		310	QUARRY TILE	QUARRY TILE	INSULATED PANELS	INSULATED PANELS	1
-	COOLER		260	QUARRY TILE	QUARRY TILE	INSULATED PANELS	INSULATED PANELS	1
-	-		-	-	-	-	-	-
-	-		-	-	-	-	-	-
-	-		-	-	-	-	-	-
-	-		-	-	-	-	-	-
REMARKS:								
	REAR OF TILE FLOOR SHALL BE SL AT DOOR SILLS. VERIFY RECESSEI				E FROM REAR OF E	ACH UNIT TO UNIT FRONT D	OOR AND LEVEL WITH KITCH	IEN QUARRY TILE



MCA M 15



ADDENDUM-1 **REVISED CONDENSER** MODEL NUMBER

MODEL RFO500L4SEB MO RFO600L MCA MC 40.6

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	High Wall Heat Pump Ductless Sy	stem (Wall Insulation)									
Manufacturer:	Carrier										
Outdoor Model:	40MAQB09B-3										
Custom	Size										
System	Outdoor Model										
	Voltage, Phase, Cycle	VPh/Hz									
Electrical	Power Supply	Indoor Unit P									
	MCA	A.									
Osistada	Wireless Remote Controller (°F/°C Convertible)										
Controls	Wired Remote Controller (°F/°C Convertible)										
	Cooling Indoor DB Min-Max	°F(°C)									
Operating Range	Heating Indoor DB Min-Max	°F(°C)									
	Pipe Connection Size-Liquid	in (mm)									
Piping	Pipe Connection Size-Suction	in (mm)									
	Face Area	Sq. Ft.									
	No. Rows										
Indoor Coil	Fins per inch										
	Circuits										
	Body Unit Width	in (mm)									
	Body Unit Height	in (mm)									
	Body Unit Depth	in (mm)									
	Body Net Weight	lbs (kg)									
	Number of Fan Speeds										
Indoor	Airflow (low to high)	CFM									
	Sound Pressure (lowest to highest)	db(A)									
	Air throw Data	ft (m)									
	Moisture Removal	Pint/h (L/h)									
	Field Drain Pipe Size O.D.	in (mm)									
CONDENSATE PUMP	INSTALL MICROBLUE PUMP BY GYROK TECHN PER MANUFACTURER'S INSTALLATION INSTRU THE MINI SPLIT WALL UNIT TO THE CONDENSA INSTALLED AND DIRECTED TO A EXTERIOR FR CONDENSATE DRAIN LINE SHALL BE ROUTED	OLOGY AND ALL REQUIRED AC JCTIONS. THE PUMP SHALL DIR ATION LINE. THE CONDENSATIO RENCH DRAIN OR THE CAN WAS									
WARRANTY	PROVIDE MANUFACTURER'S STANDARD WARR SHALL PROVIDE A MINIMUM 5 YEAR COMPRES MATERIAL AND LABOR.										

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ADDENDUM-1

REVISE HIGH WALL HEAT PUMP DUCTLESS SYSTEM (WALL INSULATION) TO INCLUDE CONDENSATE PUMP.

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						CO	OLER EV	/APOR	ATOR											
	NIT NTITY	BRAND		MOTOR TYPE	FI	IS/IN	DEFROST	TYPE	5	SST		R	EFRIG.		R-448A ADJUSTED (BTUH) @ 1				UNIT	/OLTAGE
	1	RUSSELL	_ DI	JAL SPEED E	CM	6	AIR			25			448A			13,600)		11	5/1/60
	PHYSICAL DATA																			
REFRIG. CONN (ODS)		NET WEIGH	IT S	HIP WEIGH	GHT NUN		IBER OF FANS			AIR THROW		CFM FAN DIAMETE		DIAMETER	R	R AWEF FREEZER				
lQUI	ID	SUCTIO	N																	
3/8		5/8		-		58			2				25'		550		12"		(9.00
						E	LECTRIC	CAL DA	ATA											
	Т	OTAL MOTO	R AMP	MOT	OR CIRCUIT N	1CA	MOT	OR CIR	CUIT MOP	D		HEATE	R VOL	TAGE	Н	EATER A	MPS	HEATER WATTS		
	1.6 15					- 20								-						
COOLER CONDENSER																				
BER		UNIT QUA	NTITY	BRAND	MODEL	ODEL STYLE COMPR.		2. T	EMP RANGE			HP	F	REFR.	VOL	TAGE				· /
																	AMBIENT TEMP. (100 °F)		100 °F)	
		1		RUSSELL	FLOO	DED	SCROLL EXTENDED MEDIUM			180-	-1 1/2HP 448A		448A	208-230/3/60		13,150				
						COMPI	RESSOR	& CON	ID. DATA											
(COMP.			NNECTION	9110			J	REC	EIVER (<u></u> എ			APPRO	OXIMATE DIMENSIONS & WEIGHT				AWEF	
								N				,	HEIG		WIDTH	_	GTH	WEI		
ZS	S13KAI	Ξ	1	/2		7/8				11.6			28-1	/4	39-7/8	18-	-3/4	21	0	7.6
						E	LECTRIC	CAL DA	ATA											
				RESSOR DAT		-								CO	NDENSE	R FAN DA	TA			
EL			(QNTY	HP	_	LA		RA				FLA					QTY		
E4SE	A			1	1.8		.7		58				1					2		
						FRICAL D	DATA-ST	ANDAF												
OPD			M	AX DEFROST	AMPS			MAX EVAP FAN AMPS							STANDARD ED KIT					
20																				

					FR	EEZER E	VAPOR	ATOR										
UNIT QUANTITY	BRAND	МС	DTOR TYPE	FI	IS/IN	DEFROS	T TYPE	5	SST	F	REFRIG.	R		ADJUSTED CAPACITY (BTUH) @ 10TD		ITY	UNIT	VOLTAGE
1	RUSSELL	DUAI	L SPEED EC	N	6	ELEC	TRIC		-20		448A			16,600)		208-	230/1/60
	PHYSICAL DATA																	
REFRIG. (CONN (ODS)		NET WEIGH	r s	HIP WEIG	HT	NUM	/BER OF FANS		AIR THROW		CF	-M	FAN DIAMETER		R	AWEF FREEZEF	
.IQUID	SUCTION																	
3/8	1-1/8		-		85			3			25'	23	25		12"		4	4.15
						ELECTR	ICAL DA	ATA										
T	OTAL MOTOR /	AMP	MOTC	R CIRCUIT N	ICA	МО	TOR CIR	CUIT MOP	D	HEAT	ER VOLTAG	E	HEATER AMPS		HE	HEATER WATTS		
	1.5			15			2	0		20	3-230/1/60		14.3			3300		
					FR	EEZER	CONDE	NSER										
3ER	UNIT QUAN		BRAND	MODE	L STYLE	COM		TEMP RA		HP	REFF	,	VOLTA		CAF	PACITY DATA (-20 °F)		-20 °F)
										I IF					AME	BIENT TEMP. (100 °F)		
	1		RUSSELL	FLO	ODED	SCR	OLL	LOV	V	600-6HI	P 448A		208-230	/3/60		18	3,750	
					COMP	RESSOR	R & CON	ND. DATA	4									
COMP.		JID CONN		SUIC	TION CO		N		EIVER @ 9	20%	AP	PROXI	MATE D	IMENSIC	ONS & WE	EIGHT		AWEF
COMP.			ECTION	300		NINECTIO	N	REU		0/0	HEIGHT	W	VIDTH	LEN	GTH	WEI	GHT	AVVEF
ZF18K4E		1/2			1-1/	8			29.4		33	4	3-7/8	3	5	38	3	3.15
					I	ELECTR	ICAL DA	ATA										
		COMPRE	SSOR DATA									CON	DENSEF	R FAN DA	ATA			
EL		QN	TY	HP	F	RLA	L	.RA			FLA					QTY		
_4SEB		1		6.0	1	9.6		156			3.1					1		
				ELEC	TRICAL	DATA-S	TANDAF	RD DEFR	OST KIT									
)PD		MAX	DEFROST A	MPS				MAX E	VAP FAN	AMPS				ç	STANDAF	RD ED M	<it< td=""><td></td></it<>	
0			30		12						ED-11							

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40MAQB09B-3
208/230-1-60
Powered by Outddor Unit
0.2
Standard
Optional
63~86 (17~30)
32~86 (0~30)
1/4 (6.35)
3/8 (9.52)
2.19
2
20
3
32.87 (835)
11.02 (280)
7.80 (198)
19.18 (8.7)
4
210/290/360/380
27/34/42
23 (7)
1.1 (0.5)
0.625 (16)
CCESSORIES. INSTALLATION
RECT CONDENSATION FROM
ON LINE SHALL BE
SH FLOOR DRAIN. THE
BOR. THE CONTRACTOR
WARRANTY INCLUDING

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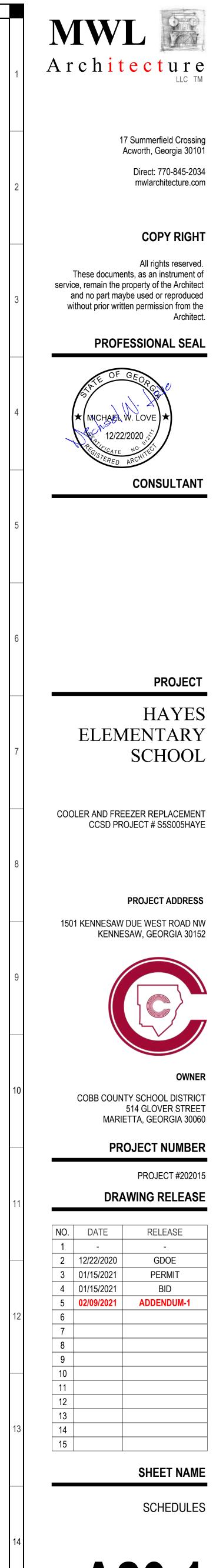
Manufactur

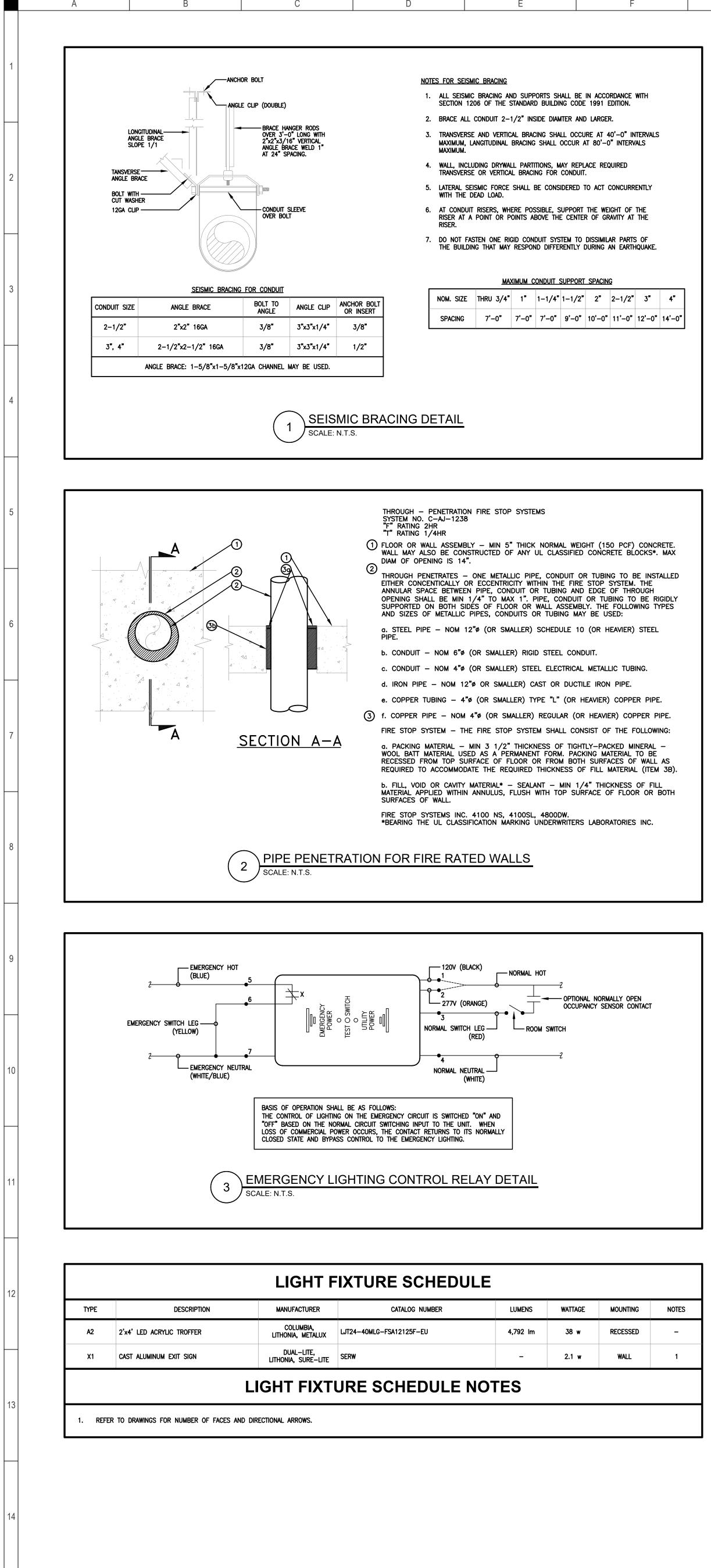
Outdoor Mo

ufacturer:	Carrier		
oor Model:	40MBCQ09-3		
Custom	Size		9
System	Outdoor Model		40MBCQ09-3
	Voltage, Phase, Cycle	VPh/Hz	208/230-1-60
Electrical	Power Supply	Indoor Unit F	owered by Outddor Unit
	MCA	А.	0.2
Controls	Wireless Remote Controller (°F/°C Convertible)		Standard
Controis	Wired Remote Controller (°F/°C Convertible)		Optional
Operating Dange	Cooling Indoor DB Min-Max	°F(°C)	60~90 (17~32)
Operating Range	Heating Indoor DB Min-Max	°F(°C)	32~86 (0~30)
Dining	Pipe Connection Size-Liquid	in (mm)	1/4 (6.35)
Piping	Pipe Connection Size-Suction	in (mm)	3/8 (9.52)
	Face Area	Sq. Ft.	3.10
Indoor Coil	No. Rows		1
	Fins per inch		19
	Circuits		2
	Body Unit Width	in (mm)	22.44 (570)
	Body Unit Height	in (mm)	10.24 (260)
	Body Unit Depth	in (mm)	22.44 (570)
	Body Net Weight	lbs (kg)	35.27 (16)
	Panel Unit Width	in (mm)	25.47 (647)
	Panel Unit Height	in (mm)	1.97 (50)
Indoor	Panel Unit Depth	in (mm)	25.47 (647)
Indoor	Panel Net Weight	lbs (kg)	5.51 (2.5)
	Number of Fan Speeds		3
	Airflow (low to high)	CFM	260/320/380
	Sound Pressure (lowest to highest)	db(A)	34/39/44
	Air throw Data	ft (m)	23 (7)
	Moisture Removal	Pint/h (L/h)	1.58 (0.75)
	Filed Drain Pipe Size O.D.	in (mm)	1 (25.4)

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<u>DRAWINGS</u>

COMPLETION DOCUMENTS

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WITHIN 30 DAYS AFTER THE DATE OF SYSTEM ACCEPTANCE BY THE CONTRACTOR, 3 COPIES OF RECORD AS-BUILT DRAWINGS OF THE ACTUAL INSTALLATION SHALL BE PROVIDED TO THE BUILDING OWNER, INCLUDING THE FOLLOWING:

- A. A SINGLE-LINE DIAGRAM OF THE BUILDING ELECTRICAL DISTRIBUTION SYSTEM. В.
- FLOOR PLANS INDICATING LOCATION AND AREA SERVED FOR ALL DISTRIBUTION. MANUALS

WITHIN 30 DAYS AFTER THE DATE OF SYSTEM ACCEPTANCE, 3 COPIES OF OPERATING AND MAINTENANCE MANUALS SHALL BE PROVIDED TO THE BUILDING OWNER BY THE CONTRACTOR. THE MANUALS SHALL INCLUDE, AT A MINIMUM, THE FOLLOWING:

- SUBMITTAL DATA STATING EQUIPMENT RATING AND SELECTED OPTIONS FOR EACH PIECE OF EQUIPMENT REQUIRING MAINTENANCE.
- OPERATIONS MANUALS AND MAINTENANCE MANUALS FOR EACH PIECE OF EQUIPMENT REQUIRING MAINTENANCE. REQUIRED ROUTINE MAINTENANCE ACTIONS SHALL BE CLEARLY IDENTIFIED.
- NAMES AND ADDRESSES OF AT LEAST ONE QUALIFIED SERVICE AGENCY.
- D. A COMPLETE NARRATIVE OF HOW EACH SYSTEM IS INTENDED TO OPERATE.

KITCHEN EQUIPMENT SCHEDULE

MARK	DESCRIPTION	VOLTAGE/ PHASE	FLA	KVA	DISCONNECT (F)=FUSED	WIRE SIZE
E1A	COOLER LIGHTS/HEATER	120/1	4.0	0.48	JUNCTION BOX	2#12, 1#12G, 1/2"C
E1B	COOLER EVAPORATOR COIL	120/1	3.2	0.66	30/2 (WP)	2#12, 1#12G, 1/2"C
E1C	COOLER CONDENSING UNIT	208/3	12.75	4.60	30/3 (WP)	3#10, 1#10G, 3/4"C
E2A	FREEZER LIGHTS/HEATER	120/1	4.7	0.56	JUNCTION BOX	2#12, 1#12G, 1/2"C
E2B	FREEZER EVAPORATOR COIL	208/1	14.3	3.0	30/2 (WP)	2#10, 1#10G, 3/4"C
E2C	FREEZER CONDENSING UNIT	208/3	32.7	11.77	60/3 (WP)	3#8, 1#10G, 1 " C

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- AS REQUIRED BY REMOVALS OF APPURTENANCES. COORDINATE WITH ARCHITECT.
- CONSTRUCTION WITH ARCHITECT. MINIMUM 10 DAYS ADVANCE NOTICE.
- ARCHITECTURAL AND MECHANICAL DRAWINGS FOR DEMOLITION.
- AS BEFORE RENOVATION.
- ALL EXISTING CIRCUITING.

ABBREVIATION	DESC
AFF	ABOVE FINISHED FLOOR
AIC	AMPERE INTERRUPTING CAPACITY
ATS	AUTOMATIC TRANSFER SWITCH
CCSD	COBB COUNTY SCHOOL DISTRICT
GFCI	GROUND FAULT CIRCUIT INTERRUPT TYPE RECEPTACLE
MLO	MAIN LUGS ONLY
NTS	NOT TO SCALE
SPD	SURGE PROTECTION DEVICE
WP	WEATHER PROOF (NEMA "3R") DEVICE

ELECTRICAL FIRE ALARM NOTES

- 1. FIRE ALARM SYSTEM AND ALL ASSOCIATED OPERATIONS SHALL BE IN ACCORDANCE WITH THE FOLLOWING: GEORGIA ACCESSIBILITY CODE • NFPA 72, NATIONAL FIRE ALARM CODE (2012) WITH GEORGIA AMENDMENTS (2014) NFPA 70, NATIONAL ELECTRICAL CODE (2017) NFPA 101. LIFE SAFETY CODE (2012) WITH GEORGIA AMENDMENTS (2013) NFPA 90A, STANDARD FOR THE INSTALLATION OF AIR CONDITIONING AND VENTILATION SYSTEMS OTHER APPLICABLE NFPA STANDARDS STATES ACCESSIBILITY CODE AND NEFP 72 (2012) EDITION. 3. PROVIDE SEAL FOR PENETRATION OF FIRE RATED WALLS BY CONDUIT.
- THE DRAWINGS BY SUBSCRIPT ADJACENT TO THE DEVICE SYMBOL. STATE ADA CODE REQUIRES A MIN. OF 75 CANDELA AT ALL LOCATIONS.
- 6. EXTEND EXISTING FIRE ALARM SYSTEM IN ACCORDANCE WITH DRAWINGS AND APPLICABLE CODES. PROVIDE
- AS-BUILT DRAWINGS.
- 7. ALL FIRE ALARM CABLING SHALL BE IN EMT CONDUIT.

ELECTRICAL DEMOLITION NOTES

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CONTRACTOR SHALL REMOVE AND/OR RELOCATE AS DIRECTED ALL ELECTRICAL APPURTENANCES ASSOCIATED WITH NEW CONSTRUCTION. DIVERT, EXTEND, RE-ROUTE, REPLACE, RECONNECT, OR OTHERWISE MAKE GOOD AND LEAVE IN SAFE WORKING ORDER ALL PORTIONS OF THE EXISTING ELECTRICAL INSTALLATION REQUIRED TO REMAIN IN USE DURING AND/OR AFTER THE COMPLETION OF WORK. THE CONTRACTOR SHALL COORDINATE WITH THE OWNER THE REMOVAL AND DISPOSAL OF ALL EXISTING ELECTRICAL MATERIAL WHICH IS NOT TO BE REUSED ON THE PROJECT. CONTRACTOR SHALL REMOVE AND STORE ANY ELECTRICAL MATERIAL IF SO DIRECTED BY OWNER. PATCH AND PAINT WALLS AND CEILINGS WORK IS TO BE CARRIED OUT WITHOUT UNNECESSARY INTERFERENCE WITH OWNER'S EXISTING FACILITIES AND OPERATIONS. POWER INTERRUPTIONS SHALL BE SCHEDULED WITH OWNER AND SHALL BE TAKEN ONLY DURING THOSE PERIODS WHICH HE HAS APPROVED IN WRITING. COORDINATE EXACT PHASING OF DEMOLITION OF EXISTING ELECTRICAL MATERIAL SHALL BE INCLUDED IN CONTRACTOR'S BID. REFER TO EXISTING WALLS THAT ARE TO BE DEMOLISHED. REMOVE CIRCUITS BACK TO NEAREST DEVICE ON SAME CIRCUIT THAT SHALL REMAIN INTACT OR COMPLETELY BACK TO PANELBOARD. RECONNECT NEW WIRING TO EXISTING DEVICES ON SAME CIRCUIT "DOWNSTREAM" IN ORDER THAT THEY OPERATE IN SAME MANNER ALL EXISTING ELECTRICAL ITEMS ON EXISTING CEILINGS SHALL BE REMOVED, STORED AND RE-INSTALLED ON NEW CEILINGS. ITEMS INCLUDE CLOCKS, CAMERAS, SPEAKERS, AND FIRE ALARM DEVICES. MAINTAIN **ABBREVIATION LEGEND** DESCRIPTION

2. AUDIBLE/VISUAL SIGNAL APPLIANCES SHALL COMPLY WITH THE REQUIREMENTS OF RULE 120-3-20-.39 OF THE

4. ALL STROBES AND SPEAKER/STROBES HAVE SWITCH SELECTABLE CANDELA (15, 30, 60, 75, AND 110 CANDELA). AT TIME OF INSTALLATION SET ALL STROBES AND HORN/STROBES TO 110 CANDELA UNLESS OTHERWISE NOTED ON

5. MOUNT ALL STROBES AND SPEAKER/STROBES AT 80 INCHES AFF OR 6 INCHES FROM THE CEILING, WHICH EVER IS

CONDUIT AND WIRING IN ACCORDANCE WITH MANUFACTURER'S APPROVED SHOP DRAWINGS. PROVIDE WRITTEN CERTIFICATION FROM MANUFACTURER'S REPRESENTATIVE THAT THE SYSTEM IS FULLY OPERATIONAL AND HAS BEEN CHECKED OUT THOROUGHLY BY A FACTORY TRAINED REPRESENTATIVE. THE CHECK-OUT PROCEDURES SHALL BE AS RECOMMENDED BY THE MANUFACTURER. FORMAL TRAINING OF THE OWNER OR OWNER'S REPRESENTATIVE SHALL BE PERFORMED AND A LETTER CERTIFYING THAT THIS WAS PERFORMED SHALL BE SUBMITTED WITH THE

	ELECTRICAL LEGEND			
	HOMERUN TO PANELBOARD, LETTER INDICATES PANEL DESIGNATION, NUMBER INDICATES CIRCUIT NUMBER, SLASH MARKS INDICATES $2#12,1#126,1/2$ °C. (\nearrow) INDICATES GREEN GROUND CONDUCTOR UNLESS INDICATED OTHERWISE ON SCHEDULES.			
	CONDUIT CONCEALED IN CEILING OR WALL.			
	CONDUIT CONCEALED IN SLAB OR BELOW GRADE.			
	CIRCUIT BREAKER IN NEMA 1 ENCLOSURE.			
Ī	DRY TYPE TRANSFORMER.			
	PANELBOARD, 277/480V, 3 PHASE, 4 WIRE. NEW OR EXISTING AS INDICATED.			
	PANELBOARD, 120/208V, 3 PHASE, 4 WIRE. NEW OR EXISTING AS INDICATED.			
Ē	DISCONNECT SWITCH, "F" INDICATES FUSED, "WP" INDICATES WEATHERPROOF NEMA 3R ENCLOSURE.			
	L.E.D. VAPOR-PROOF LIGHT FIXTURE. PROVIDED BY OTHERS, INSTALLED BY ELECTRICAL CONTRACTOR.			
L.E.D. ACRYLIC TROFFER, TYPE INDICATED.				
	L.E.D. ACRYLIC TROFFER, SWITCH EMERGENCY, TYPE INDICATED.			
	L.E.D. ACRYLIC TROFFER, UNSWITCHED EMERGENCY, TYPE INDICATED.			
₽	20-AMP, 120-VOLT DUPLEX RECEPTACLE. MOUNT AT 18" AFF UNLESS NOTED OTHERWISE.			
•	20-AMP, 120-VOLT GFCI TYPE DUPLEX RECEPTACLE. MOUNT AT 18" AFF UNLESS NOTED OTHERWISE. "WP" INDICATES WEATHERPROOF, PROVIDE TAYMAC ENCLOSURE WITH "IN-USE" COVER.			
Q	JUNCTION BOX.			
S	TOGGLE SWITCH, "2" INDICATES 2 POLE, "3" INDICATES 3 WAY, "4" INDICATES 4 WAY, "P" INDICATES PILOT LIGHT, "M" INDICATES MANUAL MOTOR CONTROLLER.			
S 01	1-POLE WALL SWITCH/OCCUPANCY SENSOR, DUAL TECHNOLOGY, HUBBELL #LHMTD-1-FINISH. APPROVED EQUALS BY GREENGATE AND WATTSTOPPER.			
R	EMERGENCY LIGHTING CONTROL RELAY, HUBBELL #UL924EPC1-UNV, REFER TO DETAIL 3/E1.1.			
ΕŊ	FIRE ALARM HORN/STROBE UNIT, MATCH EXISTING MANUFACTURER.			
S	SMOKE DETECTOR, MATCH EXISTING MANUFACTURER.			

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ELECTRICAL GENERAL NOTES

- THE CONTRACTOR SHALL VISIT THE SITE OF THE PROPOSED PROJECT TO INSPECT THE EXISTING CONDITIONS AND DETERMINE THE SCOPE OF HIS WORK AND THE EXTENT OF DEMOLITION AND RENOVATION WORK. THE SITE INSPECTION SHALL BE MADE PRIOR TO SUBMITTING BID FOR THE PROPOSED PROJECT. NO COMPENSATION WILL BE ALLOWED FOR FAILURE TO INSPECT THE SITE. CONTRACTOR SHALL INFORM ARCHITECT PRIOR TO BIDDING OF DISCREPANCIES WHICH EXIST BETWEEN DRAWINGS AND ACTUAL FIELD CONDITIONS.
- OVERCURRENT PROTECTION, WIRE SIZE AND NUMBER OF CONNECTION POINTS FOR MECHANICAL HVAC EQUIPMENT IS FOR ITEMS AS SPECIFIED. COORDINATE WITH MECHANICAL CONTRACTOR AND MAKE NECESSARY CHANGES PRIOR TO INSTALLATION FOR ACTUAL FOUIPMENT FURNISHED AT NO COST TO OWNER. REFER TO MECHANICAL DRAWINGS FOR EXACT LOCATION OF MECHANICAL EQUIPMENT.
- ALL RECEPTACLES WITHIN (6) FEET OF PLUMBING FIXTURES SHALL BE PROVIDED WITH 5 MILLIAMP GROUND FAULT INTERRUPTERS.
- 4. PROVIDE SEAL FOR PENETRATION OF FIRE RATED WALLS BY CONDUIT.
- 5. ALL WIRING SHALL BE IN METAL CONDUIT. EXCEPT FOR LOW VOLTAGE SYSTEMS IN PLENUM SPACES.
- 6. CONTRACTOR SHALL COORDINATE INSTALLATION OF NEW LIGHTING FIXTURES, RECEPTACLES, PANELBOARDS, ETC. WITH EXISTING STRUCTURE, PIPING, ETC. AND MAKE ADJUSTMENTS AS REQUIRED.
- PROVIDE ARC FLASH LABELING FOR ALL ELECTRICAL EQUIPMENT PER N.E.C. AND N.F.P.A. 70E. SWITCHGEAR MANUFACTURER SHALL PROVIDE COMPLETE ARC FLASH STUDY AND ALL EQUIPMENT LABELING.
- 8. PROVIDE FINISHED COVER PLATES FOR ALL JUNCTION BOXES.
- TERMINATIONS (LUGS, TERMINAL BLOCKS, ETC.) IN CIRCUIT BREAKERS, DISCONNECT SWITCHES, LIGHTING CONTACTORS, RELAYS, PANEL BOARDS, TIME SWITCHES, ETC. SHALL BE RATED FOR 75°C IN TEMPERATURE. IF TERMINATIONS IN EQUIPMENT SUCH AS EXHAUST FANS, WATER HEATERS, AIR CONDITIONING UNITS. ETC. ARE RATED FOR 60°C ONLY. THEN CONDUCTORS MUST BE DE-RATED AND USED IN COMPLIANCE WITH TABLE 310-16 OF CURRENT N.E.C. AND SIZED FOR THE 60°C COLUMN.
- 10. BRANCH CIRCUIT CONDUCTORS SHALL NOT BE SMALLER THAN NO.12 AND WHERE BRANCH CIRCUIT CONDUCTOR RUNS FROM SOURCE (PANEL) TO THE LAST DEVICE ON THE CIRCUIT EXCEEDS 100 FT. IN LENGTH, THE CONDUCTORS SHALL BE NO. 10 MINIMUM AND FOR THE ENTIRE LENGTH OF THE CIRCUIT. FOR RUNS OVER 200 FT. IN LENGTH THE CONDUCTOR SHALL BE NO. 8 MINIMUM AND FOR THE ENTIRE LENGTH OF THE CIRCUIT. THE ABOVE APPLIES TO 120 VOLT CIRCUITS ONLY.
- CONTRACTOR SHALL ASSURE THAT ALL WORK CLEARANCES PER THE N.E.C ARE MET OR EXCEEDED WITH EQUIPMENT FURNISHED PRIOR TO ROUGH-IN. NOTIFY ARCHITECT OF ANY DISCREPANCIES WITH THE ELECTRICAL PLANS.
- 12. BRANCH CIRCUITING WIRES SHALL NOT PASS THROUGH ELECTRICAL DEVICES (PANELS, DISCONNECT SWITCHES, CONTACTORS, ETC.) OTHER THAN THOSE DESIGNED FOR THE USE AS A JUNCTION BOX.
- 13. WIRE NUTS ARE NOT PERMITTED WITH IN THE ELECTRICAL PANEL OR ELECTRICAL DEVICES. ALL WIRING SHALL BE PULLED AT REQUIRED LENGTHS WITH OUT SPLICING WITHIN ELECTRICAL PANELS AND OTHER ELECTRICAL DEVICES.
- 14. IN REFRIGERATOR AND FREEZER INSTALL LIGHTS, GLOBES AND GUARD FURNISHED WITH EQUIPMENT. MAKE FULL CONNECTION WITH RIGID CONDUIT CEILING LIGHTS TO LIGHT AT DOOR AND CONNECT TO ANTI-SWEAT, DOOR HEATERS AND LIGHT SWITCHES. IN FREEZER, CONNECT TO HEATER AT RELIEF VENT AND LAMP FIXTURES. FROM LIGHTS, EXTEND RIGID CONDUIT UP THROUGH ROOF OF PREFAB AND INSTALL MANUFACTURER'S WIRING DIAGRAMS FOR EXACT ARRANGEMENT OF DEVICES AND MAKE ALL CONNECTIONS.
- 15. ALL CONDUIT WITHIN FREEZER/COOLERS SHALL BE "SEAL-TIGHT" WITH ALL CONNECTIONS SEALED TO PREVENT AIR ENTRY INTO CONDUITS.
- 16. COORDINATE EXACT ELECTRICAL REQUIREMENTS WITH APPROVED COOLER/FREEZER SHOP DRAWINGS PRIOR TO ROUGH-IN.
- 17. PROVIDE UPDATED TYPED PANELBOARD DIRECTORIES THAT CHANGE.

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18. VERIFY EXACT VOLTAGE AND PHASE OF ALL COOLER/FREEZER EQUIPMENT PRIOR TO ROUGH-IN. 19. NO CONDUITS SHALL PENETRATE THE TOP OF EITHER ATS.



SCHEDULES AND DETAILS

3	01/15/2021	PERMIT
4	01/15/2021	BID
5	02/09/2021	ADDENDUM NO. 1
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NO.	DATE	RELEASE
1	-	-
2	12/22/2020	GDOE
3	01/15/2021	PERMIT
4	01/15/2021	BID
5	02/09/2021	ADDENDUM NO. 1
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4.4		

COBB COUNTY SCHOOL DISTRICT 514 GLOVER STREET MARIETTA, GEORGIA 30060 **PROJECT NUMBER**

OWNER



HAYES **ELEMENTARY** SCHOOL COOLER AND FREEZER REPLACEMENT

CCSD PROJECT # S5S005HAYE

PROJECT ADDRESS

PROJECT



S O CIATES

3066 Highway 29 South

Lawrenceville, Georgia 30044

770.279.0413

www.bolden-williams.com

BWA Project #20/9142





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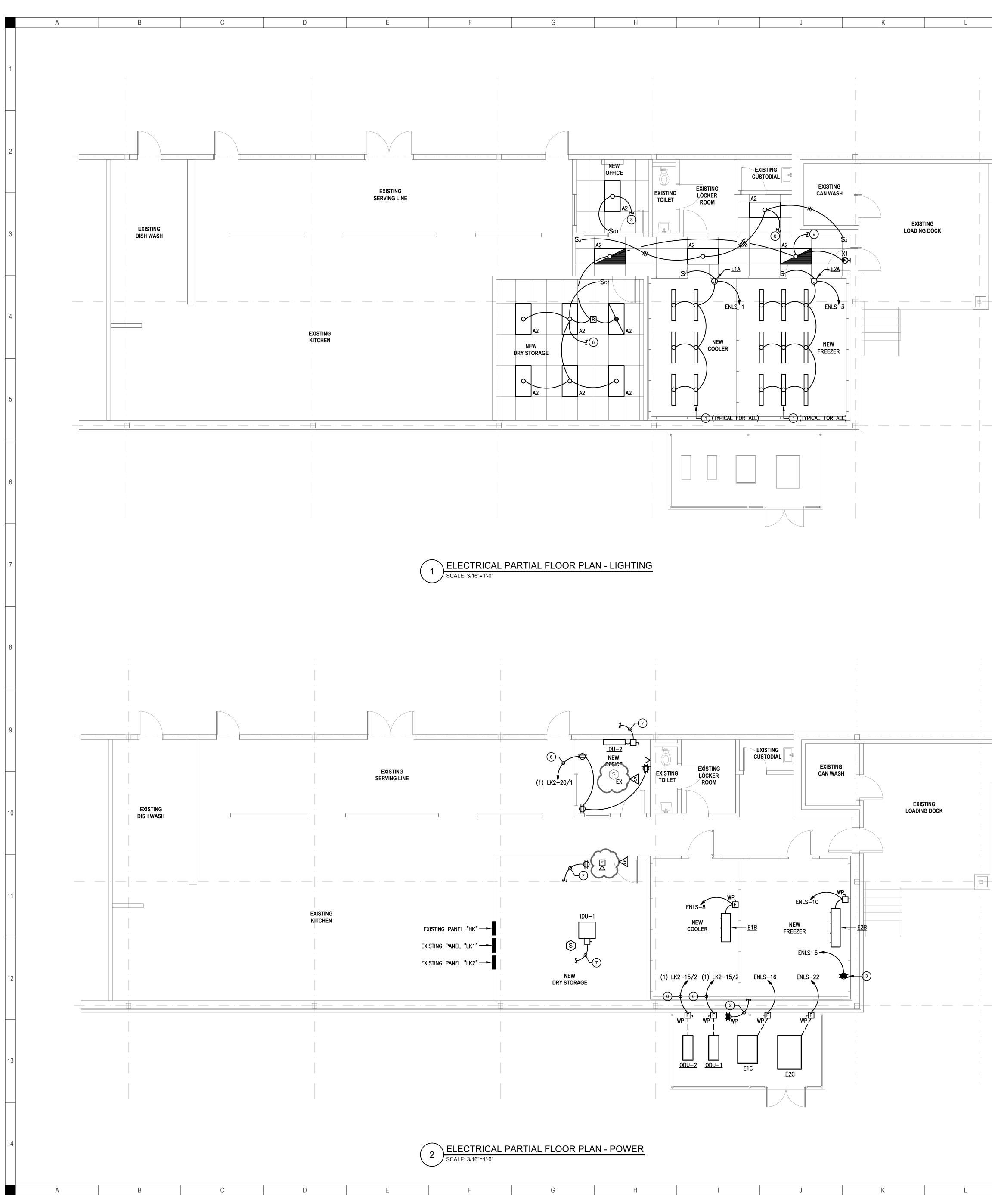
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SHEET NAME ELECTRICAL LEGEND, NOTES,

202015



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	NOTES (THIS SHEET ONLY)
1	LIGHT FIXTURES PROVIDED BY OTHERS, INSTALLED BY ELECTRICAL CONTRACTOR. PROVIDE QUANTITY AS SHOWN. COORDINATE WIRING REQUIREMENTS AND CONTROLS WITH KITCHEN EQUIPMENT SUPPLIER AND APPROVED MANUFACTURER'S SHOP DRAWINGS PRIOR TO ROUGH-IN.
2	CIRCUIT TO EXISTING 120-VOLT, NON-COMPUTER RECEPTACLE CIRCUIT.
3	HEAT TRACE CIRCUIT. PROVIDE AND INSTALL HEAT TAPE. HEAT TAPE SHALL BE U.L. LISTED, 5 OR 8 WATTS PER FOOT COVERED WITH FEB TEFLON JACKET. FURNISH AND INSTALL JUNCTION BOX TERMINATION KIT AND THERMOSTAT FOR SURFACE MOUNTING TO CYCLE HEAT TAPE OFF ABOVE 40° AMBIENT. HEAT TAPE SHALL BE RAYCHEM XL—TRACE, CHROMALOX OR EQUIVALENT. PROVIDE AROUND ALL CONDENSATE PIPING WITHIN THE FREEZER SPACE.
4	EXISTING GENERATOR TO REMAIN.
5	NEW NEMA 3R WIREWAY.
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- 6 HOMERUN TO EXISTING PANEL. PROVIDE NEW CIRCUIT BREAKER, QUANTITY AND SIZE AS INDICATED. PROVIDE UPDATED TYPED PANELBOARD DIRECTORY.
- 7 CONNECT TO ASSOCIATED EXTERIOR UNIT, REFER TO MANUFACTURER'S APPROVED SHOP DRAWINGS AND WIRING DIAGRAMS PRIOR TO ROUGH-IN.
- 8 CONNECT TO EXISTING 277-VOLT NORMAL LIGHTING CIRCUIT IN KITCHEN AREA.

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9 CONNECT TO EXISTING 277-VOLT EMERGENCY LIGHTING CIRCUIT IN KITCHEN AREA.

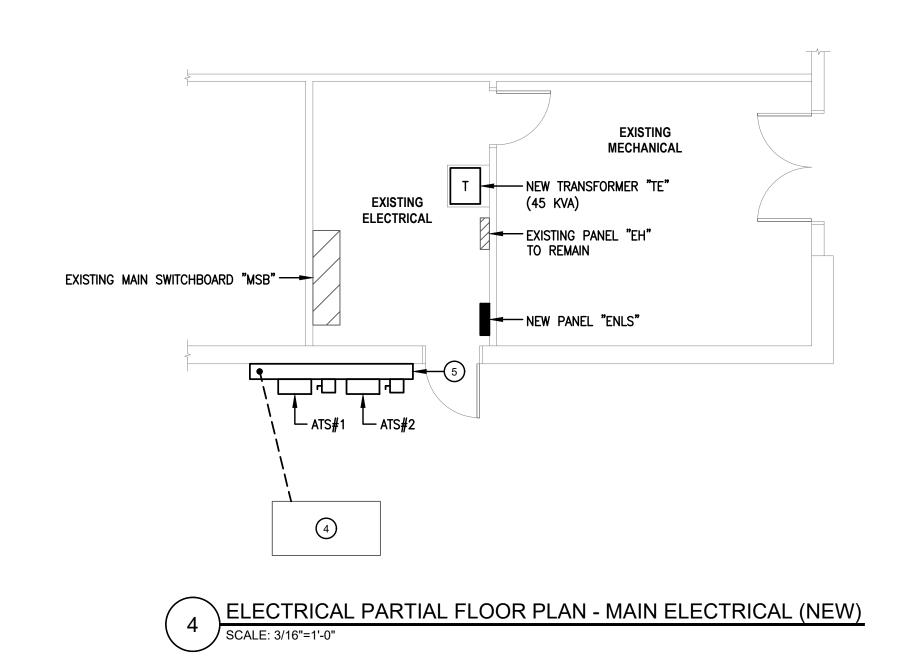
	HVAC/ELECTRICAL SCHEDULE							
MARK	VOLT/PHASE	FLA	KVA	MCA	MOCP	DISC. SIZE (F) = FUSED	WIRE SIZE	NOTES
IDU-1	-	-	-	-	-	30/2	-	3
IDU-2	-	-	-	-	-	30/2	-	3
ODU-1	208/1	5.3	1.1	9.0	15/2	(F) 30/2/15	2#12, 1#12G, 1/2"C	-
ODU-2	208/1	5.3	1.1	9.0	15/2	(F) 30/2/15	2#12, 1#12G, 1/2"C	_
NOTES								

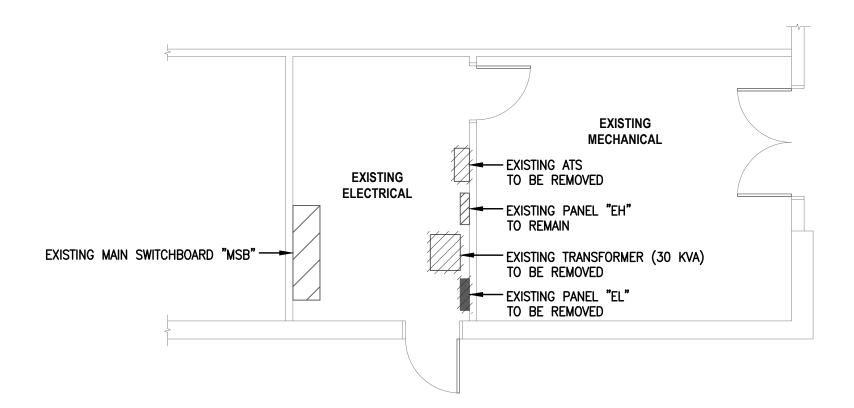
<u>NOTES:</u>

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- ALL DISCONNECT SWITCHES SHALL BE HEAVY DUTY, 250 VOLT, WITH VARIABLE COVER INTERLOCK, NEMA 1 FOR INDOOR USE. OVERCURRENT PROTECTION, WIRE SIZE AND NUMBER OF CONNECTION POINTS FOR MECHANICAL HVAC EQUIPMENT IS FOR ITEMS AS SPECIFIED. COORDINATE WITH MECHANICAL CONTRACTOR AND MAKE NECESSARY CHANGES PRIOR TO INSTALLATION FOR ACTUAL EQUIPMENT FURNISHED AT NO COST TO OWNER. REFER TO MECHANICAL DRAWINGS FOR EXACT LOCATIONS OF ALL MECHANICAL EQUIPMENT.
- 3. UNIT FED FROM OUTDOOR UNIT, SEE MANUFACTURER'S WIRING DIAGRAM





\bigcirc ELECTRICAL PARTIAL FLOOR PLAN - MAIN ELECTRICAL (DEMO) 3 SCALE: 3/16"=1'-0"

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ELECTRICAL FLOOR PLANS LIGHTING AND POWER

SHEET NAME

NO.	DATE	RELEASE
1	-	-
2	12/22/2020	GDOE
3	01/15/2021	PERMIT
4	01/15/2021	BID
5	02/09/2021	ADDENDUM NO. 1
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PROJECT NUMBER 202015

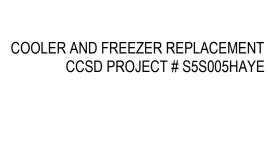
COBB COUNTY SCHOOL DISTRICT 514 GLOVER STREET MARIETTA, GEORGIA 30060

DRAWING RELEASE



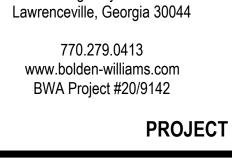
OWNER

1501 KENNESAW DUE WEST ROAD NW KENNESAW, GEORGIA 30152



www.bolden-williams.com BWA Project #20/9142

3066 Highway 29 South



HAYES ELEMENTARY

SCHOOL

PROJECT ADDRESS

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CONSULTANT

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Architecture

SERVICEWATTSNOTESCKT NO.A B C 30CKTNOTESWATTSSERVICECOOLER LIGHTS AND HEATER (E1A)480-1SURGE PROTECTION DEVICEFREEZER LIGHTS AND HEATER (E2A)560-3SURGE PROTECTION DEVICEFREEZER HEAT TRACE200-5-6SURGE PROTECTION DEVICEPASS-THRU UNIT-17-3010-3,000FREEZER COIL (E1B)PASS-THRU UNIT-113-1214SECURITY PANEL-113-4,600COOLER CONDENSING UNIT (E1C)18-4,600COOLER CONDENSING UNIT (E1C)TIME CLOCK-112-11,770FREEZER CONDENSING UNIT (E2C)FIRE ALARM DIALER-123SPAREALC CONTROL PANEL-127-28-SPAREALC CONTROL PANEL-127-300-SPARESPARE29-300-SPARE
COOLER LIGHTS AND HEATER (E1A)480-12-SURGE PROTECTION DEVICEFREEZER LIGHTS AND HEATER (E2A)560-3+4SURGE PROTECTION DEVICEFREEZER HEAT TRACE200-566SURGE PROTECTION DEVICEPASS-THRU UNIT-17-308-660COOLER COIL (E1B)PASS-THRU UNIT-119+10-3,000FREEZER COIL (E2B)FIRE ALARM CONTROL PANEL-113+14SECURITY PANEL-115+16-4,600COOLER CONDENSING UNIT (E1C)TIME CLOCK-117501811,770FREEZER CONDENSING UNIT (E2C)FIRE ALARM DIALER-123+24-11,770FREEZER CONDENSING UNIT (E2C)FIRE ALARM EXTENDER-12526SPAREALC CONTROL PANEL-12748-SPARE
FREEZER HEAT TRACE200-56PASS-THRU UNIT-17308-660COOLER COIL (E1B)PASS-THRU UNIT-19010-3,000FREEZER COIL (E2B)FIRE ALARM CONTROL PANEL-1112012SECURITY PANEL-113-14TELEPHONE-115-16-4,600COOLER CONDENSING UNIT (E1C)TIME CLOCK-1175018REFRIGERATOR-119-20PA SYSTEM-121-22-11,770FREEZER CONDENSING UNIT (E2C)FIRE ALARM DIALER-123-24-SPAREALC CONTROL PANEL-127-28SPARE
PASS-THRU UNIT-17308-660COOLER COIL (E1B)PASS-THRU UNIT-1900-3,000FREEZER COIL (E2B)FIRE ALARM CONTROL PANEL-11100-3,000FREEZER COIL (E2B)SECURITY PANEL-1130140000TELEPHONE-11516-4,600COOLER CONDENSING UNIT (E1C)TIME CLOCK-1175018000PA SYSTEM-121022-11,770FREEZER CONDENSING UNIT (E2C)FIRE ALARM DIALER-123024000FIRE ALARM EXTENDER-125026SPAREALC CONTROL PANEL-127028SPARE
PASS-THRU UNIT-193010-3,000FREEZER COIL (E2B)FIRE ALARM CONTROL PANEL-111-201214-SECURITY PANEL-113-14-4,600COOLER CONDENSING UNIT (E1C)TELEPHONE-115-16-4,600COOLER CONDENSING UNIT (E1C)TIME CLOCK-117-5018REFRIGERATOR-121-11,770FREEZER CONDENSING UNIT (E2C)FIRE ALARM DIALER-123-11,770FREEZER CONDENSING UNIT (E2C)FIRE ALARM EXTENDER-125SPAREALC CONTROL PANEL-127-28-SPARE
PASS-THRU UNIT-1910-3,000FREEZER COIL (E2B)FIRE ALARM CONTROL PANEL-111 20 1212SECURITY PANEL-11314-4,600COOLER CONDENSING UNIT (E1C)TIME CLOCK-1175018-4,600COOLER CONDENSING UNIT (E1C)TIME CLOCK-1192020-11,770FREEZER CONDENSING UNIT (E2C)FIRE ALARM DIALER-123-124-SPAREFIRE ALARM EXTENDER-12526SPAREALC CONTROL PANEL-12728-SPARE
SECURITY PANEL-1132014-4,600COOLER CONDENSING UNIT (E1C)TIME CLOCK-11516-4,600COOLER CONDENSING UNIT (E1C)TIME CLOCK-1175018-1REFRIGERATOR-11920-1PA SYSTEM-121022-11,770FREEZER CONDENSING UNIT (E2C)FIRE ALARM DIALER-1232426SPAREALC CONTROL PANEL-12728-SPARE
SECURITY PANEL-11314-4,600COOLER CONDENSING UNIT (E1C)TELEPHONE-11516-4,600COOLER CONDENSING UNIT (E1C)TIME CLOCK-11750182020REFRIGERATOR-1192022-11,770PA SYSTEM-12122-11,770FREEZER CONDENSING UNIT (E2C)FIRE ALARM DIALER-1232426SPAREALC CONTROL PANEL-12728-SPARE
TIME CLOCK-1175018REFRIGERATOR-119202022PA SYSTEM-12122-11,770FREEZER CONDENSING UNIT (E2C)FIRE ALARM DIALER-123-2426-SPAREFIRE ALARM EXTENDER-125-28-SPAREALC CONTROL PANEL-127-28-SPARE
REFRIGERATOR-1192020PA SYSTEM-12122-11,770FREEZER CONDENSING UNIT (E2C)FIRE ALARM DIALER-1232424-11,770FREEZER CONDENSING UNIT (E2C)FIRE ALARM EXTENDER-12526SPAREALC CONTROL PANEL-127•28-SPARE
REFRIGERATOR-1192020PA SYSTEM-121-22-11,770FREEZER CONDENSING UNIT (E2C)FIRE ALARM DIALER-123-24-11,770FREEZER CONDENSING UNIT (E2C)FIRE ALARM EXTENDER-125-26SPAREALC CONTROL PANEL-127-28SPARE
FIRE ALARM DIALER-123-24FIRE ALARM EXTENDER-125SPAREALC CONTROL PANEL-127-28-SPARE
FIRE ALARM EXTENDER - 1 25 - - SPARE ALC CONTROL PANEL - 1 27 - - SPARE
ALC CONTROL PANEL - 1 27 - 28 SPARE
SPARE 29 30 SPARE
SPARE 31 SPACE
SPARE 33 SPACE
SPACE 35 SPACE
SPACE 37 SPACE
SPACE 39 - 40 SPACE
SPACE 41 SPACE

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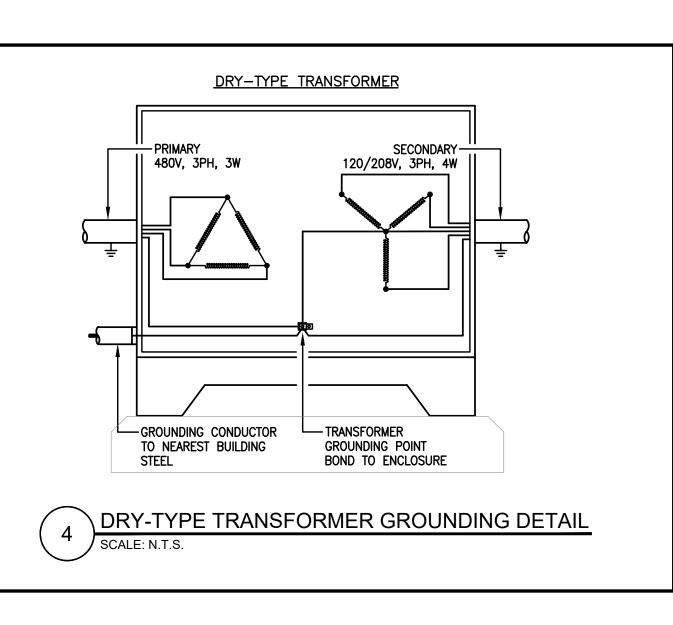
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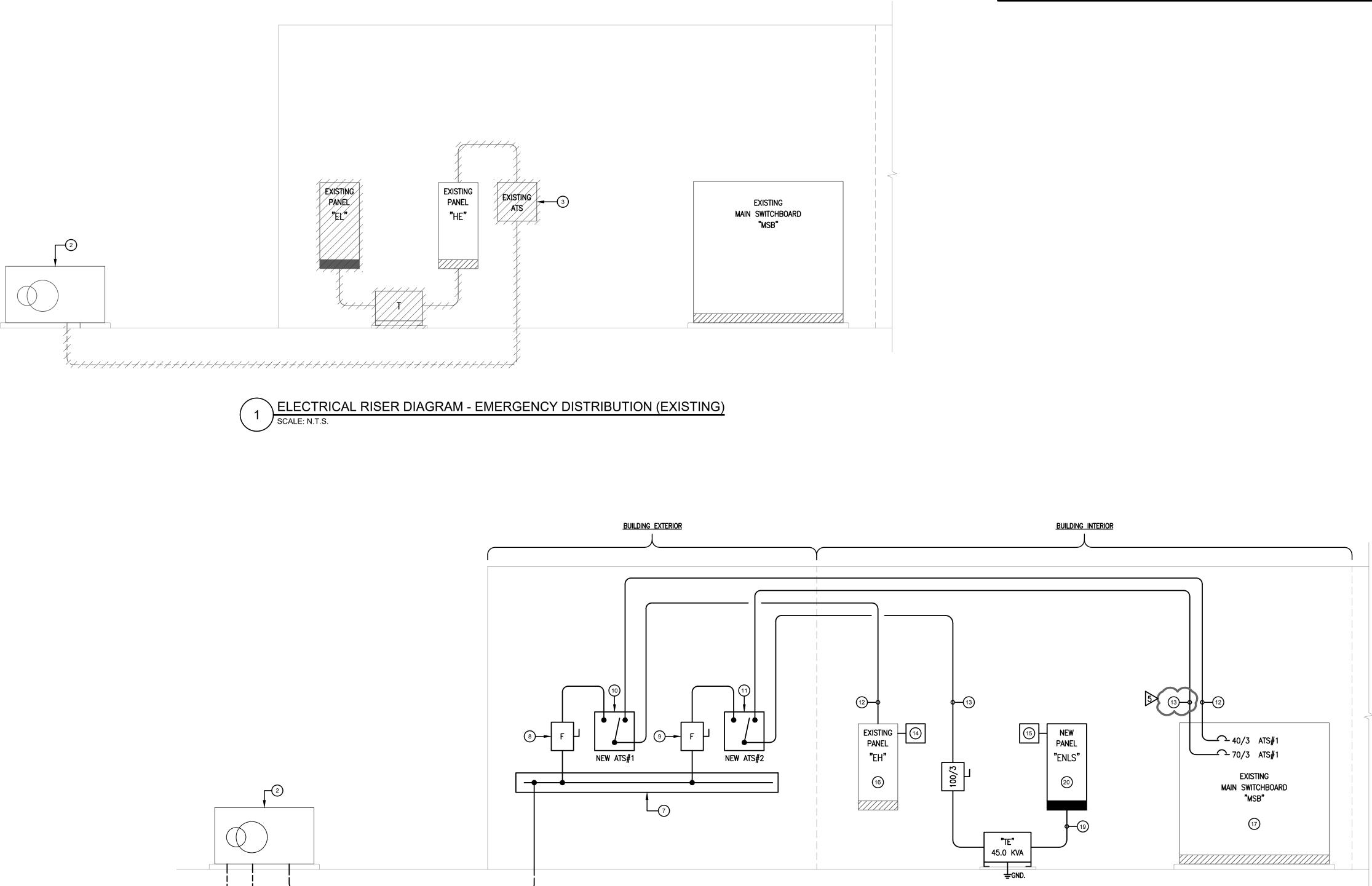
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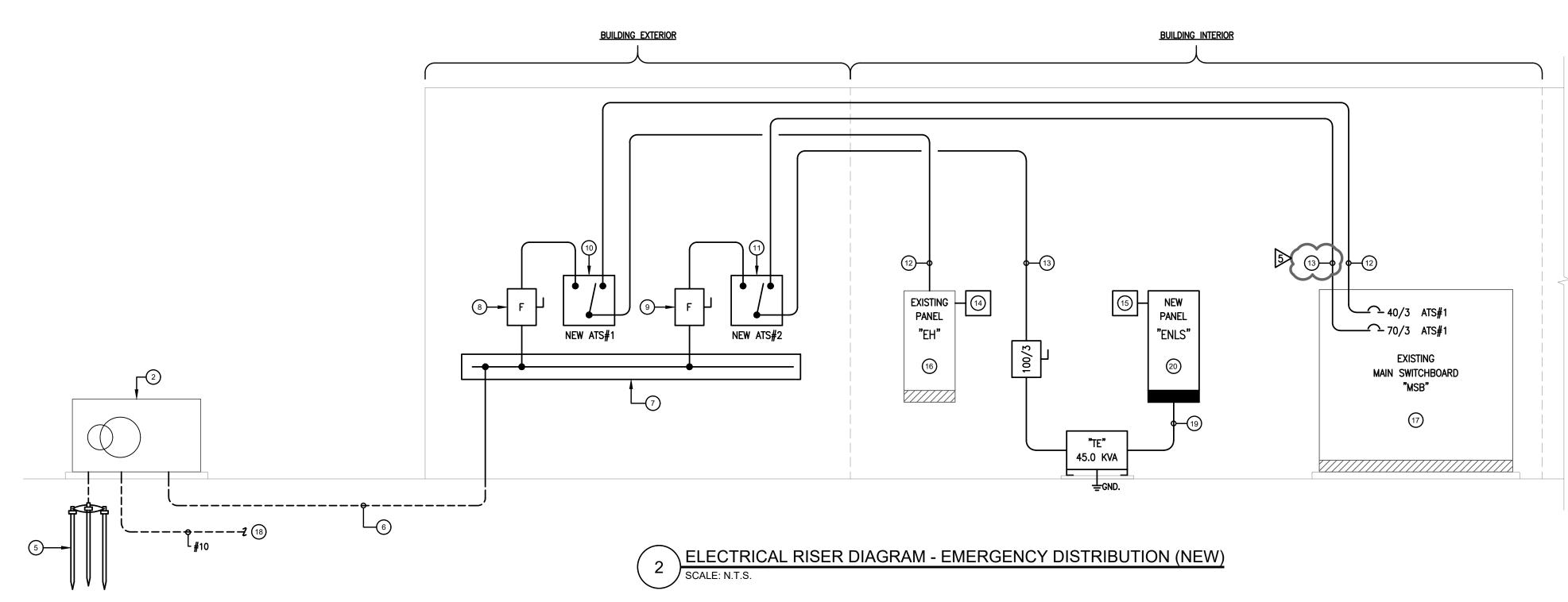
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	TRAN	ISFORMER
TRANS.	PRIMARY	SECONDARY
"TE"	480∆, 3φ, 3W	208Y/120V, 3ф, 4W
<u>Notes:</u> 1. provide "H	ouse keeping" pad.	

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	kva Rating	GND TO BLDG. STEEL OR MADE ELECTRODE (COPPER)	NOTES				
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	ELECTRICAL RISER DIAGRAM NOTES
1	HASHMARKS INDICATE EXISTING EQUIPMENT TO BE REMOVED. TYPICAL FOR ALL.
2	EXISTING EMERGENCY GENERATOR TO REMAIN. UPDATE CONTROLS FOR NEW TRANSFER
3	REMOVE EXISTING AUTOMATIC TRANSFER SWITCH (ATS) AND TURN OVER TO CCSD.
4	PROVIDE AND INSTALL NEW NATURAL GAS EMERGENCY GENERATOR PER SPECIFICATIONS. NEW GENERATOR SHALL BE GENERAC 60KW/75KVA, 277/480-VOLT, 3-PHASE, 4-WIRE. PROVIDE 110/3 CIRCUIT BREAKER RATED FOR 35,000 AIC. PROVIDE ALL REQUIRED BMS CONTROLS (INCLUDING ALL PROGRAMMING) PER CCSD GUIDE SPECIFICATIONS. GENERATOR TO BE PROVIDED BY CCSD, INSTALLED BY ELECTRICAL CONTRACTOR.
5	PROVIDE GROUND CLUSTER OF (3) $3/4$ " x 10' COPPERWELD GROUND RODS SPACED 6' APART. CONNECT GROUND TO NEUTRAL OF GENERATOR PER NEC 250.30(A). CONNECT GENERATOR FRAME TO GROUND SYSTEM.
6	4#2, 1#6G, 1–1/2"C.
7	NEMA 3R WIREWAY SIZED PER CODE. ALL TAPS SHALL BE POLARIS INSULATED LUGS.
8	NEMA 3R FUSIBLE DISCONNECT, 60-AMP, 3-POLE, WITH (3) 40-AMP CLASS "RK-1", TIME DELAY, DUAL ELEMENT FUSES.
9	NEMA 3R FUSIBLE DISCONNECT, 100-AMP, 3-POLE, WITH (3) 70-AMP CLASS "RK-1", TIME DELAY, DUAL ELEMENT FUSES.
(10)	ATS #1, 100-AMP, 4-POLE IN NEMA 3R ENCLOSURE.
(11)	ATS #2, 100-AMP, 4-POLE IN NEMA 3R ENCLOSURE.
(12)	4#8, 1#10G, 1"C.
(13)	4#4, 1#8G, 1—1/4"C.
(14)	SURGE PROTECTION DEVICE, 277/480-VOLT, 3-PHASE, 4-WIRE. LIMIT TAP TO 3'-0" MAXIMUM.
(15)	SURGE PROTECTION DEVICE, 120/208-VOLT, 3-PHASE, 4-WIRE. LIMIT TAP TO 3'-0" MAXIMUM.
(16)	PROVIDE NEW 30/3 CIRCUIT BREAKER IN EXISTING PANEL "EH" FOR SURGE PROTECTION DEVICE.
(17)	EXISTING SWITCHBOARD MODIFICATIONS:
	A. PROVIDE NEW 35,000 AIC, 40/3 BREAKER TO FEED ATS#1.
	B. PROVIDE NEW 35,000 AIC, 70/3 BREAKER TO FEED ATS#2.
(18)	CONDUIT AND CONTROL WIRING FOR CONNECTION TO BUILDING EMS SYSTEM. PROVIDE ALL

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- DING EMS SYSTEM. PROVIDE ALL CONTROL CABLING AND PROGRAMMING.
- (19) **4#1/0, 1#6G, 2"C**.
- EXTEND ALL EXISTING CIRCUIT FOR EXISTING PANEL "EL" TO NEW PANEL "ENLS". EXTEND AND RECONNECT ALL CIRCUITS. 20

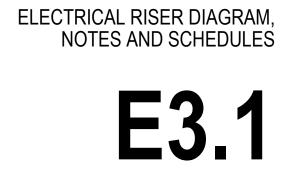
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SHEET NAME

NO.	DATE	RELEASE
1	-	-
2	12/22/2020	GDOE
3	01/15/2021	PERMIT
4	01/15/2021	BID
5	02/09/2021	ADDENDUM NO. 1
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202015 DRAWING RELEASE

COBB COUNTY SCHOOL DISTRICT 514 GLOVER STREET

MARIETTA, GEORGIA 30060

PROJECT NUMBER



1501 KENNESAW DUE WEST ROAD NW KENNESAW, GEORGIA 30152

PROJECT ADDRESS

CCSD PROJECT # S5S005HAYE

SCHOOL COOLER AND FREEZER REPLACEMENT

HAYES ELEMENTARY

770.279.0413 www.bolden-williams.com BWA Project #20/9142 PROJECT

& ASSCCIATES







CONSULTANT

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MWL Architecture 17 Summerfield Crossing

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PROJECT INFORMATION

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PROJECT NAME MOUNT BETHEL ELEMENTARY SCHOOL

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PROJECT ADDRESS

1210 JOHNSON FERRY ROAD MARIETTA, GEORGIA 30068

OCCUPANCY CLASSIFICATION EXISTING EDUCATION CONSTRUCTION TYPE

EXISTING BUILDING SPRINKLER SYSTEM

EXISTING SPRINKLER SYSTEM OCCUPANCY LOAD

EXISTING OCCUPANT LOAD

BUILDING AREA EXISTING BUILDING AREA

APPLICABLE BUILDING CODES

2018 INTERNATIONAL BUILDING CODE WITH GEORGIA AMENDMENTS 2017 NATIONAL ELECTRICAL CODE 2018 INTERNATIONAL GAS CODE WITH GEORGIA AMENDMENTS 2018 INTERNATIONAL MECHANICAL CODE WITH GEORGIA AMENDMENTS 2018 INTERNATIONAL PLUMBING CODE WITH GEORGIA AMENDMENTS 2015 INTERNATIONAL ENERGY CONSERVATION CODE 2010 ADA STANDARDS FOR ACCESSIBLE DESIGN 2018 NFPA LIFE SAFETY CODE 2018 INTERNATIONAL FIRE CODE 2018 INTERNATIONAL EXISTING BUILDING CODE 2018 NATIONAL GREEN BUILDING STANDARDS 2018 INTERNATIONAL MAINTENANCE CODE

PROJECT TEAM DIRECTORY

<u>OWNER</u>

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<u>CIVIL ENGINEER</u>

RESERVED ADDRESS ADDRESS CONTACT: DIRECT: EMAIL:

STRUCTURAL ENGINEER

RESERVED ADDRESS ADDRESS CONTACT: DIRECT: EMAIL:

MECHANICAL ENGINEER

JOHNSON, SPELLMAN & ASSOCIATES, INC. 350 RESEARCH COURT SUITE 130 PEACHTREE CORNERS, GEORGIA 30092 CONTACT: SCOTT BUCHBERGER PE, LEED AP DIRECT: (678) 336-5441 EMAIL: sbuchberger@jsace.com

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BOLDEN WILLIAMS & ASSOCIATES 3066 HIGHWAY 29 SOUTH LAWRENCEVILLE, GEORGIA 30044 CONTACT: JEFF WILLIAMS DIRECT: (770) 279-0413 EMAIL: jwilliams@bolden-williams.com

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COBB COUNTY COMMUNITY DEVELOPMENT AGENCY

DEVELOPMENT AND INSPECTIONS 1150 POWDER SPRINGS STREET

SUITE 400 MARIETTA, GEORGIA 30008 DIRECT: (770) 528-2043

COBB COUNTY FIRE AND EMERGENCY SERVICES 1595 COUNTY SERVICES PARKWAY SW MARIETTA, GEORGIA 30008 DIRECT: (770) 528-8000

COBB COUNTY HEALTH DEPARTMENT OFFICE OF ENVIRONMENTAL SAFETY 1738 COUNTY SERVICES PARKWAY MARIETTA, GEORGIA 30008 DIRECT: (770) 435-7815

<u>GADOE</u>

GEORGIA DEPARTMENT OF EDUCATION 1670 TWIN TOWERS EAST 205 JESSE HILL JR. DRIVE, SE ATLANTA, GEORGIA 30334 DIRECT: (404) 656-4466

DRAWING INDEX

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A1.1	CIVIL	-	12/22/2020	1/15/2021	1/15/2021	2/9/2021					
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S	RESERVED	-	-	-	-	-					
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P1.2	PLUMBING ROOF PLAN	_	12/22/2020	1/15/2021	1/15/2021	2/9/2021					<u>├</u> ───┤
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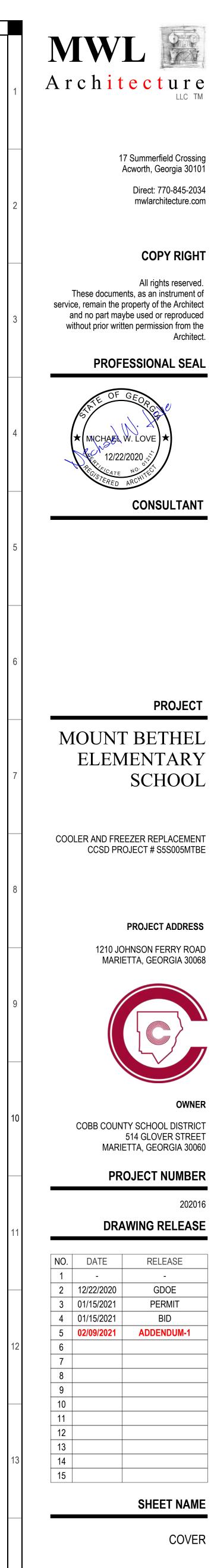
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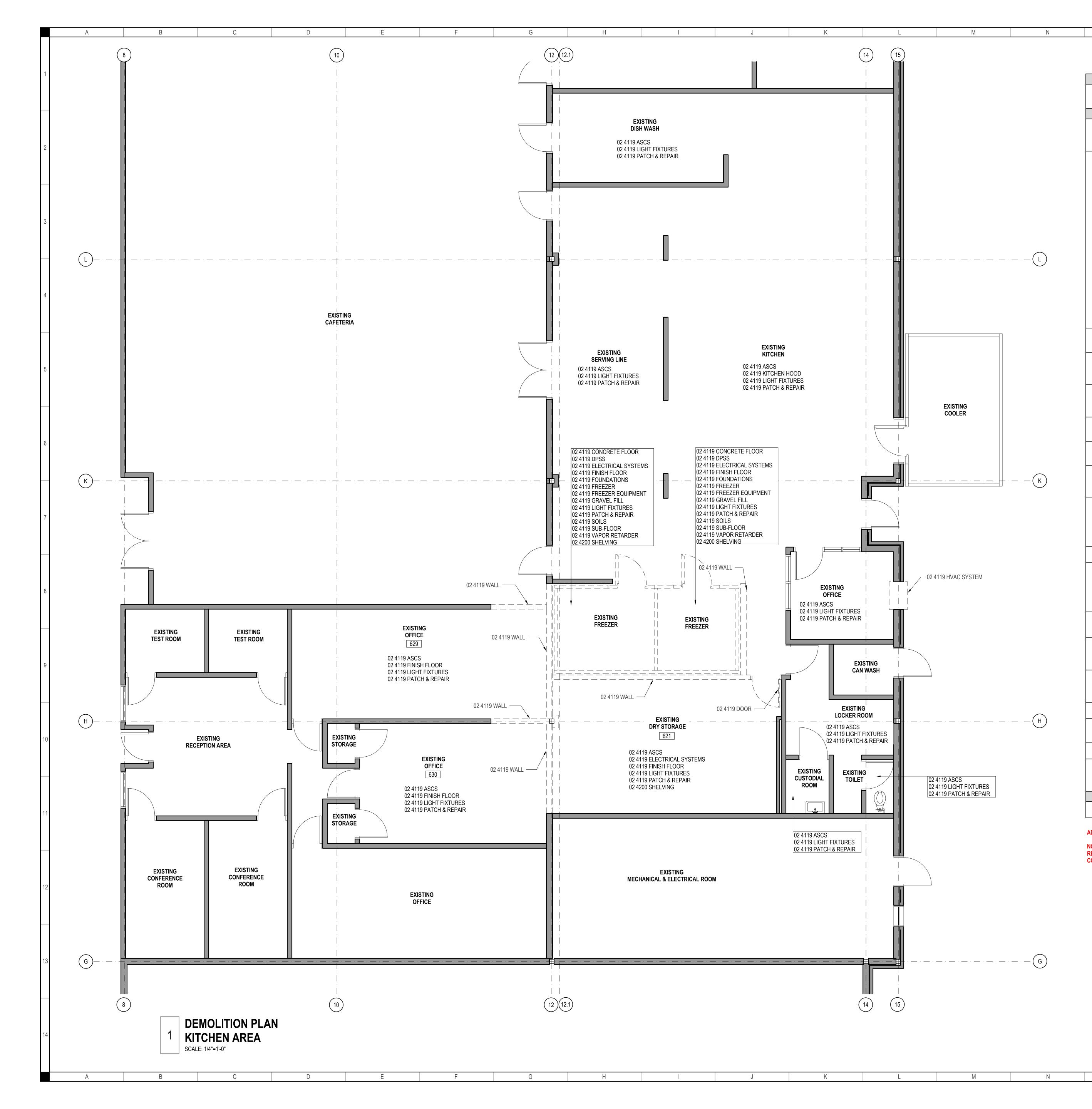
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KEYNOTES SHEET A3.1 DEMOLITION PLAN									
	REFERENCE	REFER TO SHEET A2.1 GENERAL INFORMATION AND LEGENDS, GENERAL DEMOLITION NOTES, FOR ADDITIONAL PROJECT							
02 4440		REQUIREMENTS.							
02 4119 02 4119	ASCS	SELECTIVE DEMOLITION DEMO THE EXISTING ACOUSTICAL SUSPENSION CEILING SYSTEM (ASCS) INCLUDING CEILING TILES, GRID SYSTEM, SUPPORT WIRING AND HANGERS. COORDINATE LIMITS OF DEMOLITION WITH NEW CONSTRUCTION.							
02 4119	CONCRETE FLOOR	DEMO THE EXISTING CONCRETE FLOOR SLAB AND ALL STEEL REINFORCING. COORDINATE LIMITS OF DEMOLITION WITH NEW CONSTRUCTION. PRIOR TO THE CONTRACTOR DEMOLISHING ANY EXISTING CONCRETE FLOOR SLABS, THE CONTRACTOR SHALL IMPLEMENT GROUND PENETRATING RADAR EQUIPMENT TO SCAN AND DETERMINE THE PRESENCE OF ANY EXISTING UNDERGROUND CONDUIT HOUSING ELECTRICAL WIRING, WATER SUPPLY, OR SANITARY DRAINAGE. SHOULD THE SCAN IDENTIFY THE PRESENCE OF ANY EXISTING UNDERGROUND CONDUIT HOUSING ELECTRICAL WIRING, WATER SUPPLY, OR SANITARY DRAINAGE; THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE OWNER AND ARCHITECT IN WRITING, INCLUDING SUBMITTING THE DATA REPORT IDENTIFYING THE LOCATION (POINT OF REFERENCE, X,Y, AND Z COORDINATE (INCHES) AND LENGTH OF RUN) OF THE EXISTING CONDUIT OR CONDUITS. IN ADDITION, THE CONTRACTOR SHALL SUBMIT RECOMMENDATIONS AND COST TO RELOCATE ANY EXISTING UNDERGROUND CONDUIT HOUSING ELECTRICAL WIRING, WATER SUPPLY, OR SANITARY DRAINAGE. THE CONTRACTOR SHALL NOT PROCEED WITH DEMOLISHING THE EXISTING CONCRETE FLOOR SLAB UNTIL WRITTEN DIRECTION IS ISSUED BY THE OWNER. ANY DAMAGE TO THE EXISTING ELECTRICAL WIRING, WATER SUPPLY, OR SANITARY DRAINAGE. THE CONTRACTOR SHALL NOT PROCEED WITH DEMOLISHING THE EXISTING CONCRETE FLOOR SLAB UNTIL WRITTEN DIRECTION IS ISSUED BY THE OWNER. ANY DAMAGE TO THE EXISTING ELECTRICAL WIRING, WATER SUPPLY, OR SANITARY DRAINAGE CONDUITS SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR AND ALL COST FOR REPAIRS SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR INCLUDING TIME DELAYS AND DESIGN COST.							
02 4119	DOOR	DEMO EXISTING DOOR(S) INCLUDING THE HARDWARE AND DOOR FRAME. COORDINATE LIMITS OF DEMOLITION WITH NEW CONSTRUCTION.							
02 4119	DPSS	DEMO THE EXISTING DRY PIPE SPRINKLER SYSTEM (DPSS) INCLUDING HEADS, PIPING, CONNECTIONS, SUPPORTS, AND EQUIPMENT. COORDINATE LIMITS OF DEMOLITION WITH NEW CONSTRUCTION.							
02 4119	ELECTRICAL SYSTEMS	DEMO THE EXISTING ELECTRICAL SYSTEMS INCLUDING CONDUIT, WIRING, JUNCTION BOXES, AND DEVICES. COORDINATE LIMITS OF DEMOLITION WITH NEW CONSTRUCTION.							
02 4119	FINISH FLOOR	DEMO THE EXISTING FINISH FLOORING INCLUDING ADHESIVES, FASTENERS AND WALL BASE. COORDINATE LIMITS OF DEMOLITION WITH NEW CONSTRUCTION.							
02 4119	FOUNDATIONS	DEMO THE EXISTING FOUNDATIONS INCLUDING CONCRETE FOOTINGS AND ALL STEEL REINFORCING. COORDINATE LIMITS OF DEMOLITION WITH NEW CONSTRUCTION.							
02 4119	FREEZER	DEMO THE EXISTING FREEZER, INCLUDING THE INSULATED FLOOR PANELS, WALL PANELS, CEILING PANELS, CLOSURE TRIM; DOOR AND DOOR PANEL. COORDINATE LIMITS OF DEMOLITION WITH NEW CONSTRUCTION.							
02 4119	FREEZER EQUIPMENT	DISCONNECT AND DEMO THE EXISTING FREEZER EQUIPMENT INCLUDING THE EVAPORATOR, CONDENSER, ELECTRICAL POWER BOXES, SWITCHES, CONDUITS, WIRING, REFRIGERANT SUPPLY AND RETURN LINES, CONDENSATION LINES AND EQUIPMENT SUPPORTS. COORDINATE LIMITS OF DEMOLITION WITH NEW CONSTRUCTION.							
02 4119	GRAVEL FILL	REMOVE THE EXISTING GRAVEL FILL. COORDINATE LIMITS OF REMOVAL WITH NEW CONSTRUCTION.							
02 4119	HVAC SYSTEM	DISCONNECT AND DEMO THE EXISTING HVAC SYSTEM INCLUDING THE SUPPLY AND RETURN DUCT LINES, SUPPLY AND RETURN DIFFUSERS AND ALL SUPPORT WIRING AND HANGERS. COORDINATE LIMITS OF DEMOLITION WITH NEW CONSTRUCTION. HVAC EQUIPMENT TO REMAIN FOR USE IN RE-DESIGNED DRY STORAGE ROOMS.							
02 4119	KITCHEN HOOD	DISCONNECT AND DEMO THE EXISTING KITCHEN HOOD INCLUDING ELECTRICAL POWER BOXES, SWITCHES, CONDUITS, WIRING, PIPING, DUCTWORK, EXHAUST VENTS, EQUIPMENT SUPPORTS, ETC.							
02 4119	LIGHT FIXTURES	DISCONNECT AND DEMO THE EXISTING LIGHTING SYSTEM INCLUDING LAMPS FIXTURES, CONDUITS, WIRING, JUNCTION BOXES, SWITCHES, AND COVER PLATES. COORDINATE LIMITS OF DEMOLITION WITH NEW CONSTRUCTION.							
02 4119	PATCH AND REPAIR	PROMPTLY REPAIR DAMAGE TO ADJACENT CONSTRUCTION CAUSED BY SELECTIVE DEMOLITION OPERATIONS. COMPLY WITH REQUIREMENTS OF SPECIFICATION SECTION 01 7329 CUTTING AND PATCHING.							
02 4119	SOILS	REMOVE THE EXISTING COMPACTED SOIL. COORDINATE LIMITS OF REMOVAL WITH NEW CONSTRUCTION.							
02 4119	SUB-FLOOR	DEMO THE EXISTING SUB-FLOOR INCLUDING ADHESIVES AND FASTENERS. COORDINATE LIMITS OF DEMOLITION WITH NEW CONSTRUCTION.							
02 4119	VAPOR RETARDER	DEMO THE EXISTING VAPOR RETARDER. COORDINATE LIMITS OF DEMOLITION WITH NEW CONSTRUCTION.							
02 4119	WALL	DEMO THE EXISTING WALL(S) INCLUDING THE MASONRY, STEEL REINFORCING, FRAMING, INSULATION, AND FINISH. COORDINATE LIMITS OF DEMOLITION WITH NEW CONSTRUCTION.							
02 4200		REMOVAL AND SALVAGE OF CONSTRUCTION MATERIALS							
02 4200	SHELVING	REMOVE, STORE, AND RE-INSTALL SHELVING IN THE DRY STORAGE ROOM AND FREEZER AND COOLER.							

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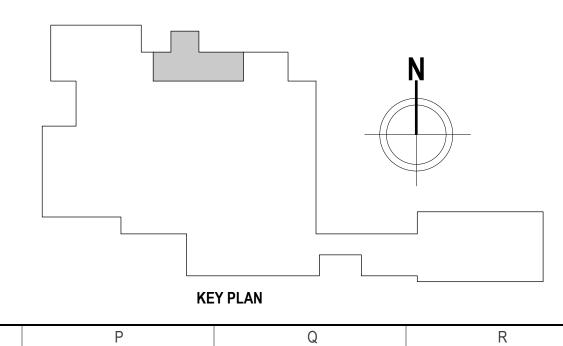
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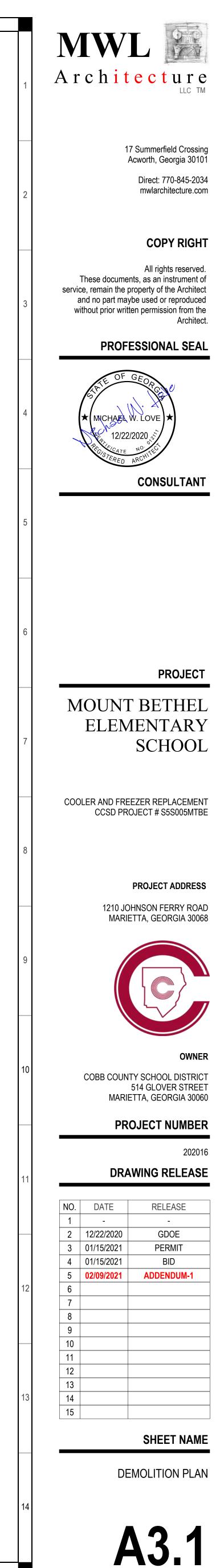
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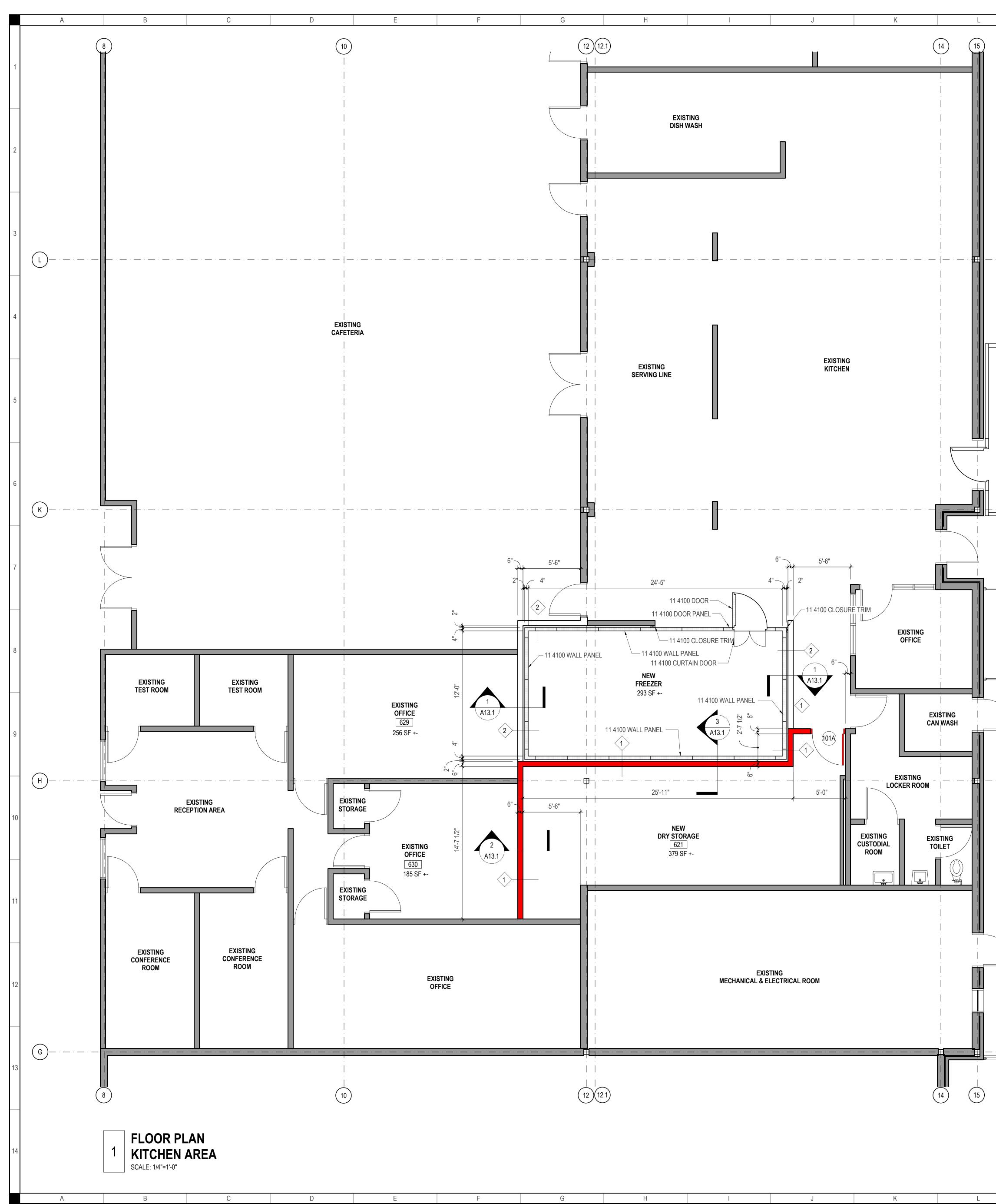
ADDENDUM-1

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NOTE-1 SHEET A3.1 DEMOLITION PLAN RELOCATE EXISTING BIKE RACK, COORDINATE NEW LOCATION WITH OWNER. DEMO EXISTING BOLLARD IN CONFLICT WITH LOCATION FOR OUTDOOR MINI SPLIT EQUIPMENT & FENCING, CUT & PATCH CONCRETE.







	KE	YNOTES SHEET A6.1 FLOOR PLAN
-	REFERENCE	REFER TO SHEET A2.1 GENERAL INFORMATION AND LEGENDS, GENERAL NOTES, FOR ADDITIONAL PROJECT REQUIREMENTS.
11 4100		FOODSERVICE STORAGE EQUIPMENT
11 4100	CLOSURE PANEL	INSTALL MANUFACTURER'S CLOSURE PANEL, FIELD COORDINATE HEIGHT WITH MANUFACTURER TO ENSURE PROPER FIT. COORDINATE WITH DESIGN DETAILS AND LIMITS OF NEW CONSTRUCTION.
11 4100	COOLER CONDENSER	RELOCATE THE COOLER CONDENSING UNIT FROM THE ROOF OF THE EXTERIOR COOLER BOX AND PLACE AS SHOWN ON SHEET A6.1. INSTALL NEW REFRIGERANT PIPING, ROUTE NEW PIPING TO PENETRATE THE EXISTING PENETRATIONS ON THE ROOF OF THE EXTERIOR COOLER BOX. SEAL PENETRATIONS TO BE FREE OF LEAKS. INSTALL NEW ROOF MEMBRANE OVER THE ENTIRE EXTERIOR COOLER BOX AND INSTALL NEW METAL FLASHING AT VERTICAL WALL INTERSECTION, TO BE FREE OF LEAKS.
11 4100	CURTAIN DOOR	INSTALL CURTAIN DOOR, CURTRON PP-C-080-3678. COORDINATE WITH DESIGN DETAILS AND LIMITS OF NEW CONSTRUCTION.
11 4100	DOOR	INSTALL 36"X78" DOOR WITH VISION PANEL. COORDINATE WITH DESIGN DETAILS AND LIMITS OF NEW CONSTRUCTION.
11 4100	DOOR PANEL	INSTALL 4" THICK MODULAR RIGID POLYURETHANE FOAMED-IN PLACE INTERCHANGEABLE DOOR PANEL. DOOR PANEL SHALL BE INSTALLED TO ENSURE THAT THE TOP OF EACH DOOR PANEL ALIGNS EVENLY WITH THE ADJACENT WALL PANEL. COORDINATE WITH DESIGN DETAILS AND LIMITS OF NEW CONSTRUCTION.
11 4100	FREEZER CONDENSER	INSTALL FREEZER CONDENSER EQUIPMENT. SEE EQUIPMENT SCHEDULE. COORDINATE WITH DESIGN DETAILS AND LIMITS OF NEW CONSTRUCTION.
11 4100	WALL PANEL	INSTALL 4" THICK MODULAR RIGID POLYURETHANE FOAMED-IN PLACE INTERCHANGEABLE WALL PANELS, WALL PANELS SHALL BE INSTALLED TO ENSURE THAT THE TOP OF EACH WALL PANE ALIGNS EVENLY WITH THE ADJACENT WALL PANEL. COORDINATE WITH DESIGN DETAILS AND LIMITS OF NEW CONSTRUCTION.

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	WALL TYPES SHEET A6.1 FLOOR PLAN
1	5 5/8" CMU, 1-HOUR RATED, FROM FINISH FLOOR TO A MINIMUM OF 4" ABOVE FINISH CEILING. EXTEND 3 5/8" NON-STRUCTURAL METAL FRAMING AT 16" O.C WITH 5/8" TYPE "X" GYPSUM BOARD ON EACH SIDE, FROM TOP OF CMU TO METAL ROOF DECK ABOVE. FILL CAVITY WITH SAFB INSULATION. SEAL ENTIRE PERIMETER AND ALL PENETRATIONS WITH 1-HOUR FIRE RATED SEALANT. UL DESIGN # U425 FOR NON- STRUCTURAL METAL FRAMING WALL SYSTEM.
	RATED WALL ASSEMBLY IDENTIFICATION SHALL BE MARKED ABOVE THE FINISH CEILING. NUMBER OF MARKINGS PER IBC 703.7. STENCIL SHALL BE LASER CUT MYLAR. LETTERING HEIGHT SHALL BE A MINIMUM OF 3 INCHES. THE TYPE SHALL READ "ONE HOUR FIRE BARRIER PROTECT ALL OPENINGS". PAINT COLOR SHALL BE RGB (255,0,0) = RED.
2	5 5/8" CMU, FROM FINISH FLOOR TO A MINIMUM OF 4" ABOVE FINISH CEILING. EXTEND 3 5/8" NON-STRUCTURAL METAL FRAMING AT 16" O.C WITH 5/8" TYPE "X" GYPSUM BOARD ON EACH SIDE, FROM TOP OF CMU TO METAL ROOF DECK ABOVE. FILL CAVITY WITH SAB INSULATION. SEAL ENTIRE PERIMETER AND ALL PENETRATIONS WITH SEALANT.

ADDENDUM-1 RELOCATED FREEZER & COOLER CONDENSER EQUIPMENT, INCLUDING FENCING & GATE. SEE SHEET A6.2

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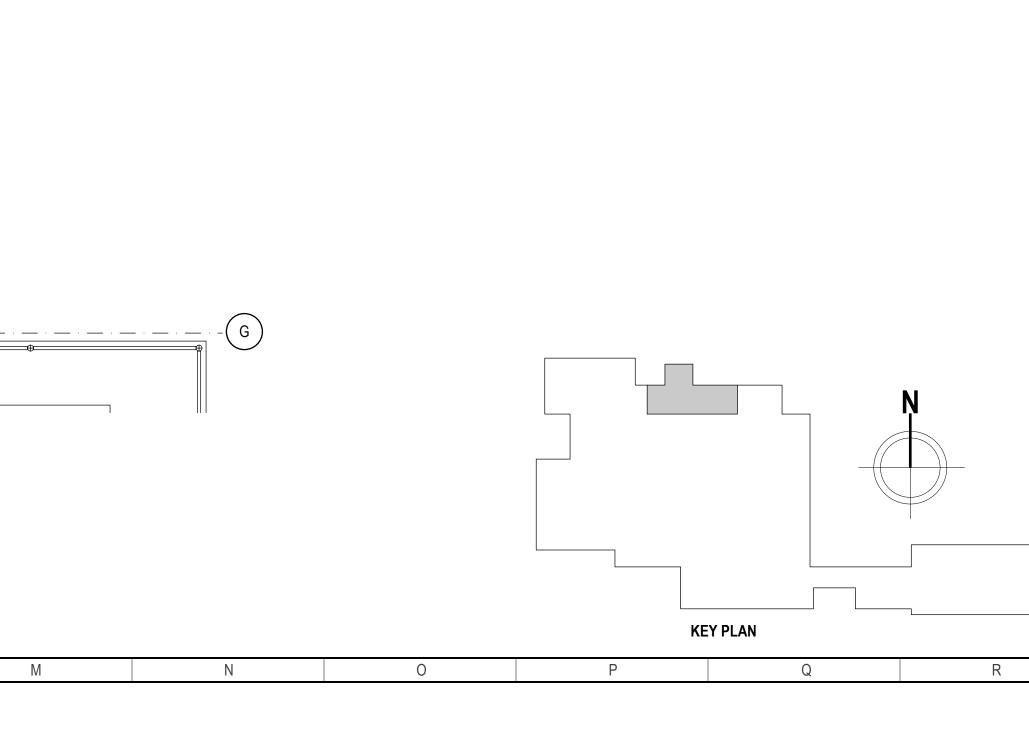
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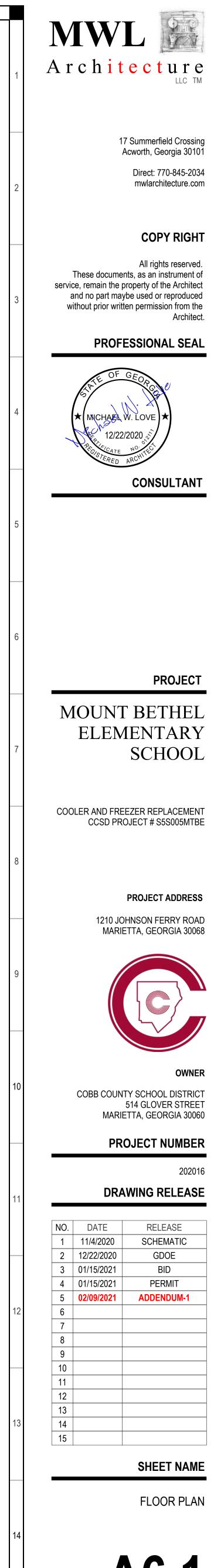
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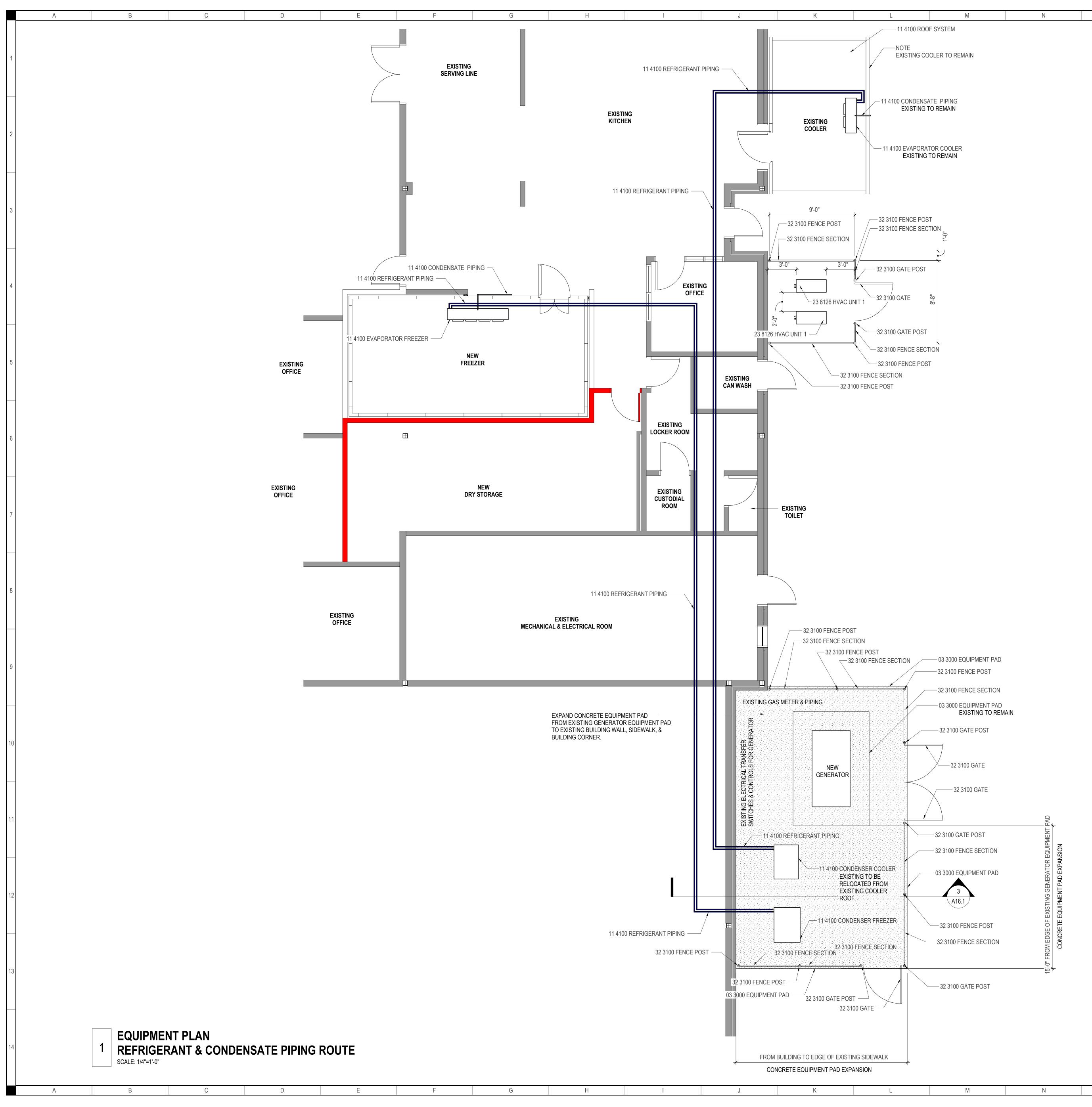


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A6.1



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ROOF SYSTEM			KEVN	OTES SHEET A6.2 FLOOR PLAN
G COOLER TO REMAIN		- 03 3000	REFERENCE	REFER TO SHEET A0.2 FLOOR FLAN REFER TO SHEET A2.1 GENERAL INFORMATION AND LEGENDS, GENERAL NOTES, FOR ADDITIONAL PROJECT REQUIREMENTS. CAST-IN-PLACE CONCRETE
NSATE PIPING NG TO REMAIN		03 3000	EQUIPMENT PAD	INSTALL 3000 PSI STRENGTH CONCRETE, BROOM FINISH, CONTROL JOINTS BOTH WAYS AT MIDPOINT LOCATIONS, PROVIDE POSITIVE DRAINAGE AWAY FROM ADJACENT STRUCTURE. COORDINATE WITH DESIGN DETAILS AND LIMITS OF CONSTRUCTION.
		11 4100		FOODSERVICE STORAGE EQUIPMENT
ORATOR COOLER NG TO REMAIN		11 4100	CONDENSATE PIPING	INSTALL, AS SHOWN ON DRAWINGS. TERMINATE CONDENSATE PIPING AT FLOOR DRAIN, HUB DRAIN, OR FRENCH DRAIN. INSTALL PVC SLEEVES AT WALL PENETRATIONS, INCLUDING INSULATED WALL AND CEILING PANELS, AND INSULATE VOIDS, SIZE OF SLEEVES SHALL BE SELECTED BY SIZE OF PIPING. COORDINATE WITH DESIGN DETAILS AND LIMITS OF NEW CONSTRUCTION.
		11 4100	CONDENSER COOLER	RELOCATE THE COOLER CONDENSING UNIT FROM THE ROOF OF THE EXTERIOR COOLER BOX AND PLACE AS SHOWN ON SHEET A6.2. INSTALL NEW REFRIGERANT PIPING ROUTE NEW PIPING TO PENETRATE THE EXISTING PENETRATIONS ON THE ROOF OF THE EXTERIOR COOLER BOX. SEAL PENETRATIONS TO BE FREE OF LEAKS. INSTALL NEW ROOF MEMBRANE OVER THE ENTIRE EXTERIOR COOLER BOX AND INSTALL NEW METAL FLASHING AT VERTICAL WALL INTERSECTION, TO BE FREE OF LEAKS.
- - - - - -		11 4100	CONDENSER FREEZER	INSTALL FREEZER CONDENSER EQUIPMENT. SEE EQUIPMENT SCHEDULE. COORDINATE WITH DESIGN DETAILS AND LIMITS OF NEW CONSTRUCTION.
DST		11 4100	EVAPORATOR FREEZER	INSTALL FREEZER EVAPORATOR EQUIPMENT. SEE EQUIPMENT SCHEDULE. COORDINATE WITH DESIGN DETAILS AND LIMITS OF NEW CONSTRUCTION.
SECTION		11 4100	REFRIGERANT PIPING	INSTALL REFRIGERANT PIPING FROM THE CONDENSER EQUIPMENT TO THE EVAPORATOR EQUIPMENT, INCLUDING SUPPORT HANGERS, SURFACE MOUNTS, AND INSULATION AS SHOWN ON DRAWINGS. REFRIGERANT PIPING INSTALLED INSIDE THE BUILDING SHALL BE ROUTED ABOVE THE CEILING. INSTALL PVC SLEEVES AT WALL PENETRATIONS, INCLUDING INSULATED WALL AND CEILING PANELS, AND INSULATE VOIDS. SIZE OF SLEEVES SHALL BE SELECTED BY SIZE OF PIPING. INSTALL ACCESSORY REFRIGERANT LINE COVERS ON LINE SETS IN FINISHED AREAS NOT CONCEALED IN WALLS AND CHASES. INSTALL ALUMINUM LINE SET JACKETS ON LINE SETS EXPOSED OUTDOORS (GLT PRODUCTS, ALUMINUM ROLL JACKETING).COORDINATE WITH DESIGN DETAILS AND LIMITS OF NEW CONSTRUCTION.
		11 4100	ROOF SYSTEM	INSTALL MANUFACTURER'S MEMBRANE ROOF SYSTEM, INCLUDE CANT STRIP TO PROVIDE POSITIVE DRAINAGE FROM VERTICAL WALL SURFACE ABOVE, INSTALL FLASHING COUNTER FLASHING, AND VERTICAL SURFACE TERMINATION METAL TRIM (FRY REGLET) FOR A WATER TIGHT SEAL. COORDINATE WITH DESIGN DETAILS AND LIMITS OF NEW CONSTRUCTION.
		23 8126		SPLIT SYSTEM AIR CONDITIONERS
		23 8126	HVAC UNIT 1	INSTALL MINI SPLIT OUTDOOR EQUIPMENT. SEE EQUIPMENT SCHEDULE. INSTALL ACCESSORY REFRIGERANT LINE COVERS ON LINE SETS IN FINISHED AREAS NOT CONCEALED IN WALLS AND CHASES. INSTALL ALUMINUM LINE SET JACKETS ON LINE SETS EXPOSED OUTDOORS (GLT PRODUCTS, ALUMINUM ROLL JACKETING).
		32 3100		FENCES & GATES
		32 3100	FENCE POST	INSTALL FENCE POST(S) INCLUDING TERMINAL, INTERMEDIATE, AND CORNER POSTS, 3" O.D. SCHEDULE 40 HOT DIPPED GALVANIZED STEEL PIPE, TYPICAL. COORDINATE WITH DESIGN DETAILS AND LIMITS OF NEW CONSTRUCTION.
		32 3100	FENCE SECTION	INSTALL FENCE SECTION(S) INCLUDING TOP, INTERMEDIATE AND BOTTOM RAIL, BRACE BANDS, RAIL ENDS, TENSION BARS, TENSION BANDS, FABRIC MESH. COORDINATE WITH DESIGN DETAILS AND LIMITS OF NEW CONSTRUCTION.
03 3000 EQUIPMENT PAD 32 3100 FENCE POST 32 3100 FENCE SECTION		32 3100	GATE	INSTALL GATE(S), 48" OPENING, INCLUDING TOP, INTERMEDIATE, AND BOTTOM RAIL, DIAGONAL BRACING, BRACE BAND(S), TENSION BAR(S), TENSION BAND(S), FABRIC MESH(S), HINGE(S), GATE LATCH AND PAD LOCK. COORDINATE WITH DESIGN DETAILS AND LIMITS OF NEW



NOTE-1 SHEET A6.2 EQUIPMENT PLAN

GATE POST

32 3100

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THE NEW GENERATOR SHALL BE PROVIDED BY THE OWNER AND INSTALLED BY THE CONTRACTOR. THE CONTRACTOR SHALL PROVIDE ALL LABOR , MATERIAL, AND EQUIPMENT TO TAKE DELIVERY OF THE NEW GENERATOR FROM THE DELIVERY TRUCK BED, PLACE THE GENERATOR ON THE EQUIPMENT PAD, MAKE ALL CONNECTIONS TO THE GENERATOR, INCLUDING ELECTRICAL AND GAS, COORDINATE START UP AND CERTIFICATION WITH THE MANUFACTURER, AND COMPLETE ALL INSPECTIONS AND CERTIFICATIONS REQUIRED WITH THE AUTHORITY HAVING JURISDICTION (AHJ) INCLUDING THE BUILDING AND FIRE DEPARTMENTS.

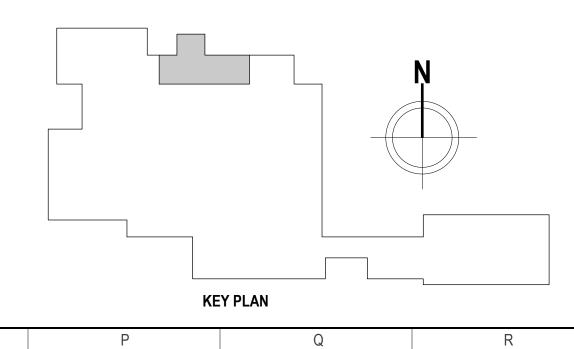
CONSTRUCTION.

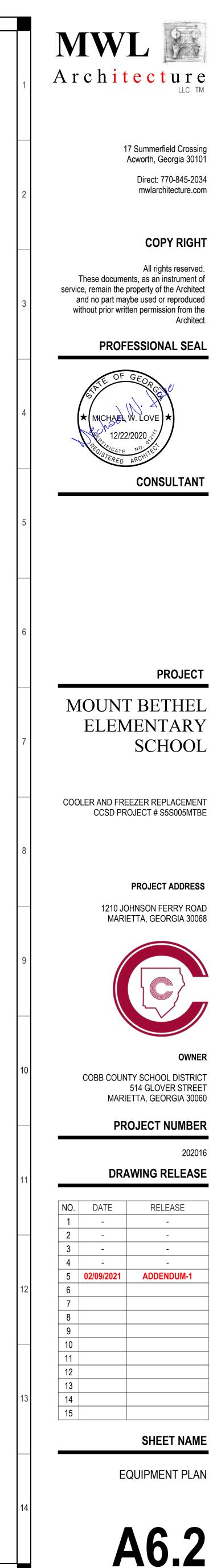
COORDINATE WITH DESIGN DETAILS AND LIMITS OF NEW

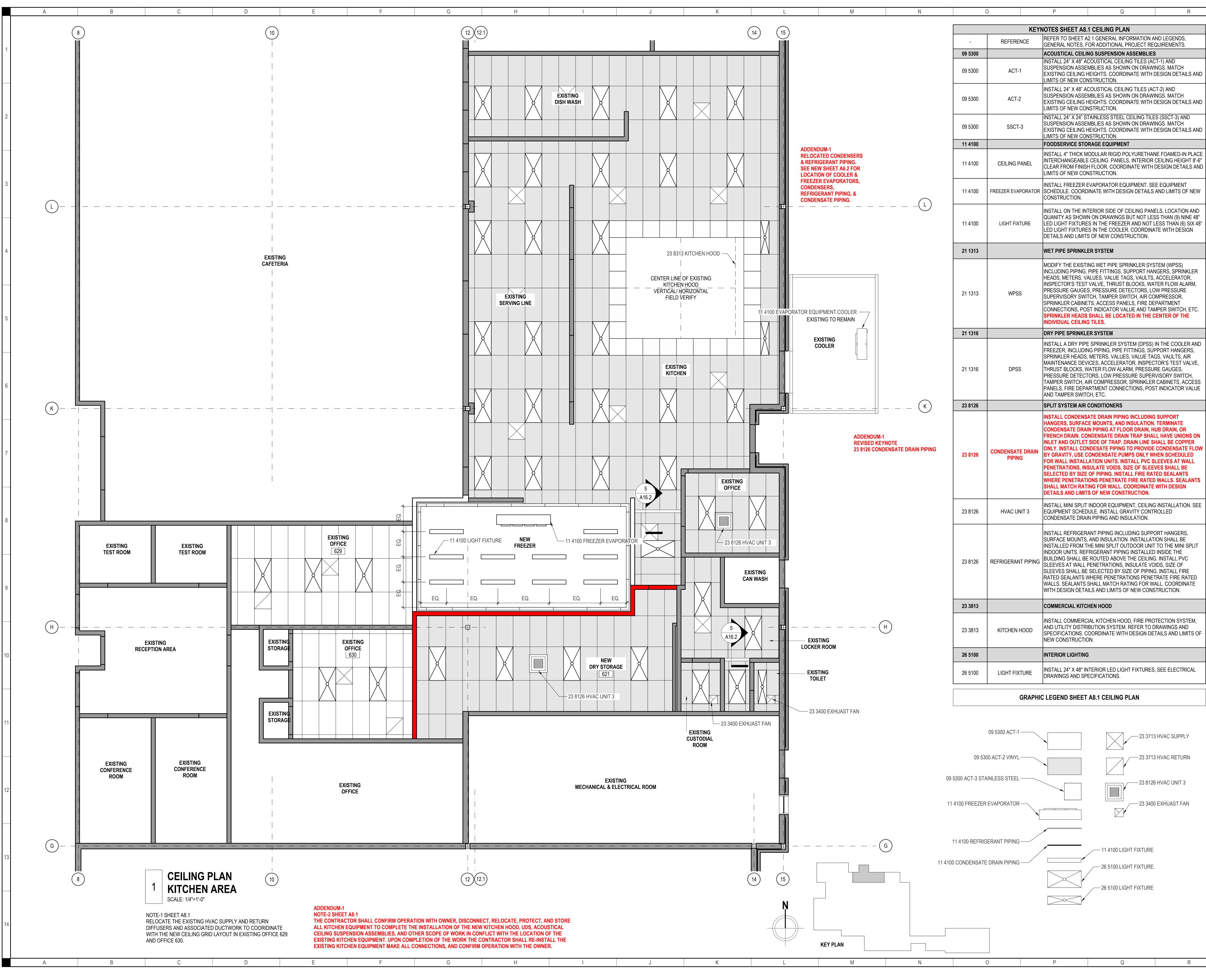
INSTALL GATE POST(S), 3" O.D. SCHEDULE 40 HOT DIPPED

GALVANIZED STEEL PIPE, TYPICAL. COORDINATE WITH

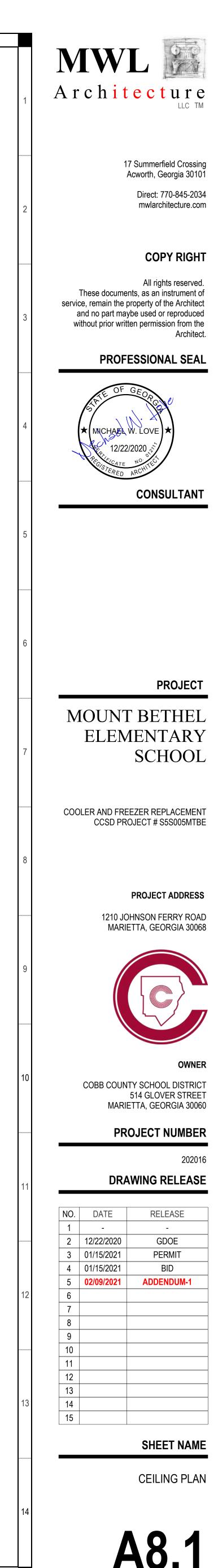
DESIGN DETAILS AND LIMITS OF NEW CONSTRUCTION.







	REFERENCE	NOTES SHEET A8.1 CEILING PLAN REFER TO SHEET A2.1 GENERAL INFORMATION AND LEGENDS,
-	REFERENCE	GENERAL NOTES, FOR ADDITIONAL PROJECT REQUIREMENTS.
09 5300 09 5300	ACT-1	ACOUSTICAL CEILING SUSPENSION ASSEMBLIES INSTALL 24" X 48" ACOUSTICAL CEILING TILES (ACT-1) AND SUSPENSION ASSEMBLIES AS SHOWN ON DRAWINGS. MATCH EXISTING CEILING HEIGHTS. COORDINATE WITH DESIGN DETAILS AN LIMITS OF NEW CONSTRUCTION.
09 5300	ACT-2	INSTALL 24" X 48" ACOUSTICAL CEILING TILES (ACT-2) AND SUSPENSION ASSEMBLIES AS SHOWN ON DRAWINGS. MATCH EXISTING CEILING HEIGHTS. COORDINATE WITH DESIGN DETAILS AN LIMITS OF NEW CONSTRUCTION.
09 5300	SSCT-3	INSTALL 24" X 24" STAINLESS STEEL CEILING TILES (SSCT-3) AND SUSPENSION ASSEMBLIES AS SHOWN ON DRAWINGS. MATCH EXISTING CEILING HEIGHTS. COORDINATE WITH DESIGN DETAILS AN LIMITS OF NEW CONSTRUCTION.
11 4100		
11 4100	CEILING PANEL	INSTALL 4" THICK MODULAR RIGID POLYURETHANE FOAMED-IN PLAC INTERCHANGEABLE CEILING PANELS, INTERIOR CEILING HEIGHT 8'-(CLEAR FROM FINISH FLOOR. COORDINATE WITH DESIGN DETAILS AN LIMITS OF NEW CONSTRUCTION.
11 4100	FREEZER EVAPORATOR	INSTALL FREEZER EVAPORATOR EQUIPMENT. SEE EQUIPMENT SCHEDULE. COORDINATE WITH DESIGN DETAILS AND LIMITS OF NEW CONSTRUCTION.
11 4100	LIGHT FIXTURE	INSTALL ON THE INTERIOR SIDE OF CEILING PANELS, LOCATION AND QUANITY AS SHOWN ON DRAWINGS BUT NOT LESS THAN (9) NINE 48 LED LIGHT FIXTURES IN THE FREEZER AND NOT LESS THAN (6) SIX 44 LED LIGHT FIXTURES IN THE COOLER. COORDINATE WITH DESIGN DETAILS AND LIMITS OF NEW CONSTRUCTION.
21 1313		WET PIPE SPRINKLER SYSTEM
21 1313	WPSS	MODIFY THE EXISTING WET PIPE SPRINKLER SYSTEM (WPSS) INCLUDING PIPING, PIPE FITTINGS, SUPPORT HANGERS, SPRINKLER HEADS, METERS, VALUES, VALUE TAGS, VAULTS, ACCELERATOR, INSPECTOR'S TEST VALVE, THRUST BLOCKS, WATER FLOW ALARM, PRESSURE GAUGES, PRESSURE DETECTORS, LOW PRESSURE SUPERVISORY SWITCH, TAMPER SWITCH, AIR COMPRESSOR, SPRINKLER CABINETS, ACCESS PANELS, FIRE DEPARTMENT CONNECTIONS, POST INDICATOR VALUE AND TAMPER SWITCH, ETC. SPRINKLER HEADS SHALL BE LOCATED IN THE CENTER OF THE INDIVIDUAL CEILING TILES.
21 1316		DRY PIPE SPRINKLER SYSTEM
21 1316	DPSS	INSTALL A DRY PIPE SPRINKLER SYSTEM (DPSS) IN THE COOLER ANI FREEZER, INCLUDING PIPING, PIPE FITTINGS, SUPPORT HANGERS, SPRINKLER HEADS, METERS, VALUES, VALUE TAGS, VAULTS, AIR MAINTENANCE DEVICES, ACCELERATOR, INSPECTOR'S TEST VALVE, THRUST BLOCKS, WATER FLOW ALARM, PRESSURE GAUGES, PRESSURE DETECTORS, LOW PRESSURE SUPERVISORY SWITCH, TAMPER SWITCH, AIR COMPRESSOR, SPRINKLER CABINETS, ACCESS PANELS, FIRE DEPARTMENT CONNECTIONS, POST INDICATOR VALUE AND TAMPER SWITCH, ETC.
23 8126		SPLIT SYSTEM AIR CONDITIONERS
23 8126	CONDENSATE DRAIN PIPING	INSTALL CONDENSATE DRAIN PIPING INCLUDING SUPPORT HANGERS, SURFACE MOUNTS, AND INSULATION. TERMINATE CONDENSATE DRAIN PIPING AT FLOOR DRAIN, HUB DRAIN, OR FRENCH DRAIN. CONDENSATE DRAIN TRAP SHALL HAVE UNIONS ON INLET AND OUTLET SIDE OF TRAP. DRAIN LINE SHALL BE COPPER ONLY. INSTALL CONDESATE PIPING TO PROVIDE CONDENSATE FLO BY GRAVITY, USE CONDENSATE PUMPS ONLY WHEN SCHEDULED FOR WALL INSTALLATION UNITS. INSTALL PVC SLEEVES AT WALL PENETRATIONS, INSULATE VOIDS, SIZE OF SLEEVES SHALL BE SELECTED BY SIZE OF PIPING. INSTALL FIRE RATED SEALANTS WHERE PENETRATIONS PENETRATE FIRE RATED WALLS. SEALANTS SHALL MATCH RATING FOR WALL. COORDINATE WITH DESIGN DETAILS AND LIMITS OF NEW CONSTRUCTION.
23 8126	HVAC UNIT 3	INSTALL MINI SPLIT INDOOR EQUIPMENT, CEILING INSTALLATION. SE EQUIPMENT SCHEDULE. INSTALL GRAVITY CONTROLLED CONDENSATE DRAIN PIPING AND INSULATION.
23 8126	REFRIGERANT PIPING	INSTALL REFRIGERANT PIPING INCLUDING SUPPORT HANGERS, SURFACE MOUNTS, AND INSULATION. INSTALLATION SHALL BE INSTALLED FROM THE MINI SPLIT OUTDOOR UNIT TO THE MINI SPLIT INDOOR UNITS. REFRIGERANT PIPING INSTALLED INSIDE THE BUILDING SHALL BE ROUTED ABOVE THE CEILING. INSTALL PVC SLEEVES AT WALL PENETRATIONS, INSULATE VOIDS, SIZE OF SLEEVES SHALL BE SELECTED BY SIZE OF PIPING. INSTALL FIRE RATED SEALANTS WHERE PENETRATIONS PENETRATE FIRE RATED WALLS. SEALANTS SHALL MATCH RATING FOR WALL. COORDINATE WITH DESIGN DETAILS AND LIMITS OF NEW CONSTRUCTION.
23 3813		COMMERCIAL KITCHEN HOOD
23 3813	KITCHEN HOOD	INSTALL COMMERCIAL KITCHEN HOOD, FIRE PROTECTION SYSTEM, AND UTILITY DISTRIBUTION SYSTEM. REFER TO DRAWINGS AND SPECIFICATIONS. COORDINATE WITH DESIGN DETAILS AND LIMITS O NEW CONSTRUCTION.
26 5100		INTERIOR LIGHTING
26 5100	LIGHT FIXTURE	INSTALL 24" X 48" INTERIOR LED LIGHT FIXTURES, SEE ELECTRICAL DRAWINGS AND SPECIFICATIONS.
	GRAPHIC	C LEGEND SHEET A8.1 CEILING PLAN



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								PHYSICAL I	DATA									
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		LIQUID	SUCTION															
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FREEZER CONDENSER																		
UNIT MO	DEL NU	MBER	UNIT QUA	NTITY	BRAND	MODEL	STYLE	COMPR.	TEMP R	ANGE	HP	REFR.	VC	LTAGE		PACITY D BIENT TE		,
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	GDOE REQUIREMENTS SCHEDULE										
			DOE REQUIREMENTS								
			COOLER/ FREEZER	NEW COOLER	NEW FREEZER	TOTAL					
	FTE	IU	(NET SF)	(NET SF)	(NET SF)	(NET SF)					
COOLER/ FREEZER	925	60	425-450	155	293	448					
				RENOVATION DF	TOTAL DRY STORAGE (SF)						
DRY STORAGE ROOM	925	60	325-350	3	79	379					
			DOE REQUIREMENT (SIZE)			NEW HOOD (Size)					
HOOD SIZE	925	60	10'-14'			12'X14'					

FINISH SCHEDULE											
ROOM NUMBER	ROOM NAME	FLOOR AREA	- FLOOR	BASE	WALLS	CEILING	REMARKS				
		NET SF (+/-)									
629	EXISTING OFFICE	256	CARPET	RUBBER	PAINT	ACT-1	-				
630	EXISTING OFFICE	185	CARPET	RUBBER	PAINT	ACT-1	-				
621	DRY STORAGE	379	QUARTZ	QUARTZ	PAINT	ACT-2	-				
-	FREEZER	310	QUARRY TILE	QUARRY TILE	INSULATED PANELS	INSULATED PANELS	1				
-	COOLER	260	QUARRY TILE	QUARRY TILE	INSULATED PANELS	INSULATED PANELS	1				
-	EXISTING DISH WASH	-	-	-	-	ACT-2	-				
-	EXISTING SERVING LINE	-	-	-	-	ACT-2	-				
-	EXISTING KITCHEN	-	-	-	-	ACT-2	2				
-	EXISTING OFFICE	-	-	-	-	ACT-2	-				
-	EXISTING LOCKER ROOM	-	-	-	-	ACT-2	-				
-	EXISTING CUSTODIAL ROOM	-	-	-	-	ACT-2	-				
-	EXISTING TOILET	-	-	-	-	ACT-2	-				
-	-	-	-	-	-	-	-				
EMARKS:											
1.	REAR OF TILE FLOOR SHALL BE SLIGHTLY EL AT DOOR SILLS. VERIFY RECESSED FLOOR A			PE FROM REAR OF E	ACH UNIT TO UNIT FRONT D	OOOR AND LEVEL WITH KITC	HEN QUARRY T				
2.	EXISTING KITCHEN INSTALL ACT-3 24" X 24" S										

ADDENDUM-1 NOTES SHEET A20.1 SCHEDULES

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SERVICE REQUIREMENTS

- EQUIPMENT WARRANTY

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MAINTENANCE SERVICE & REPAIRS

1. CONTRACTOR TO ARRANGE FOR QUALIFIED EQUIPMENT SERVICE TECHNICIANS TO PROVIDE PREVENTATIVE SERVICE EVERY 3 MONTHS (MINIMUM 4 TIMES) WITHIN THE ONE-YEAR WARRANTY PERIOD TO KEEP ALL SYSTEMS OPERATING IN FIRST-CLASS WORKING ORDER. SERVICE OUTLINED BELOW.

2. CONTRACTOR SHALL COORDINATE SERVICE TIMES WITH THE CCSD'S MAINTENANCE MANAGER AT LEAST ONE WEEK PRIOR TO PROPOSED REGULAR SERVICING SCHEDULE.

3. CONTRACTOR SHALL ALSO NOTIFY THE CCSD'S MAINTENANCE MANAGER PRIOR TO EACH EQUIPMENT REPAIR VISIT.

4. OWNER'S MAINTENANCE PERSONNEL SHALL BE PRESENT DURING ALL SERVICING AND REPAIR ACTIVITIES. CONTRACTOR MUST DOCUMENT EACH VISIT AND HAVE CCSD'S MAINTENANCE EMPLOYEE ACKNOWLEDGE THE WORK WAS ACCOMPLISHED BY SIGNING THE FORM.

5. THE CONTRACTOR AGREES TO PROVIDE AN ADDITIONAL TWO YEARS OF WARRANTY FOR ALL HVAC UNITS IN THE EVENT THE ABOVE REQUIRED PREVENTATIVE MAINTENANCE IS NOT COORDINATED WITH CCSD MAINTENANCE AND PERFORMED WITHIN THE NECESSARY TIMEFRAMES.

1. COOLING TOWER, DRAIN AND CLEAN AT EACH VISIT. CHECK BELT AND FAN OPERATION. CHECK OPERATION OF SUMP HEATER.

2. BOILER, TEST FIRE AND CHECK ALL SAFETIES.

3. GAS FIRED ROOFTOP EQUIPMENT, TEST COMPRESSOR(S) OPERATION. TEST FIRE HEAT. CHECK BELTS. CHECK GENERAL OPERATION OF UNIT. CHECK FOR EXCESSIVE RUST OR CORROSION ON TOP OF UNIT. CLEAN CONDENSATION DRAIN TRAP.

4. WATER SOURCE HEAT PUMP, CHECK OPERATION OF COMPRESSOR AND BLOWER MOTOR. CHECK OPERATION OF ISOLATION VALVE IF APPLICABLE. SPOT CHECK Y-STRAINER SCREENS AT DIFFERENT LOCATIONS THROUGHOUT BUILDING TO INSURE LOOP WATER CLEANLINESS.

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5. ERU/DOAS, CHECK BELT(S) IF APPLICABLE. CHECK OPERATION OF COMPRESSOR(S) TEST FIRE HEAT.

6. SPLIT SYSTEMS, CHECK GENERAL OPERATION.

7. DUCTLESS MINI-SPLITS, CHECK GENERAL OPERATION.

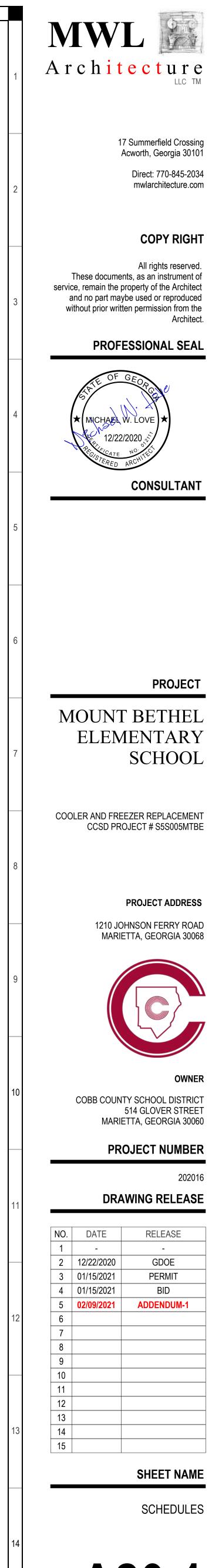
8. WALL MOUNT UNITS, CHECK GENERAL OPERATION.

9. CHANGE FILTERS IN ALL EQUIPMENT EACH VISIT.

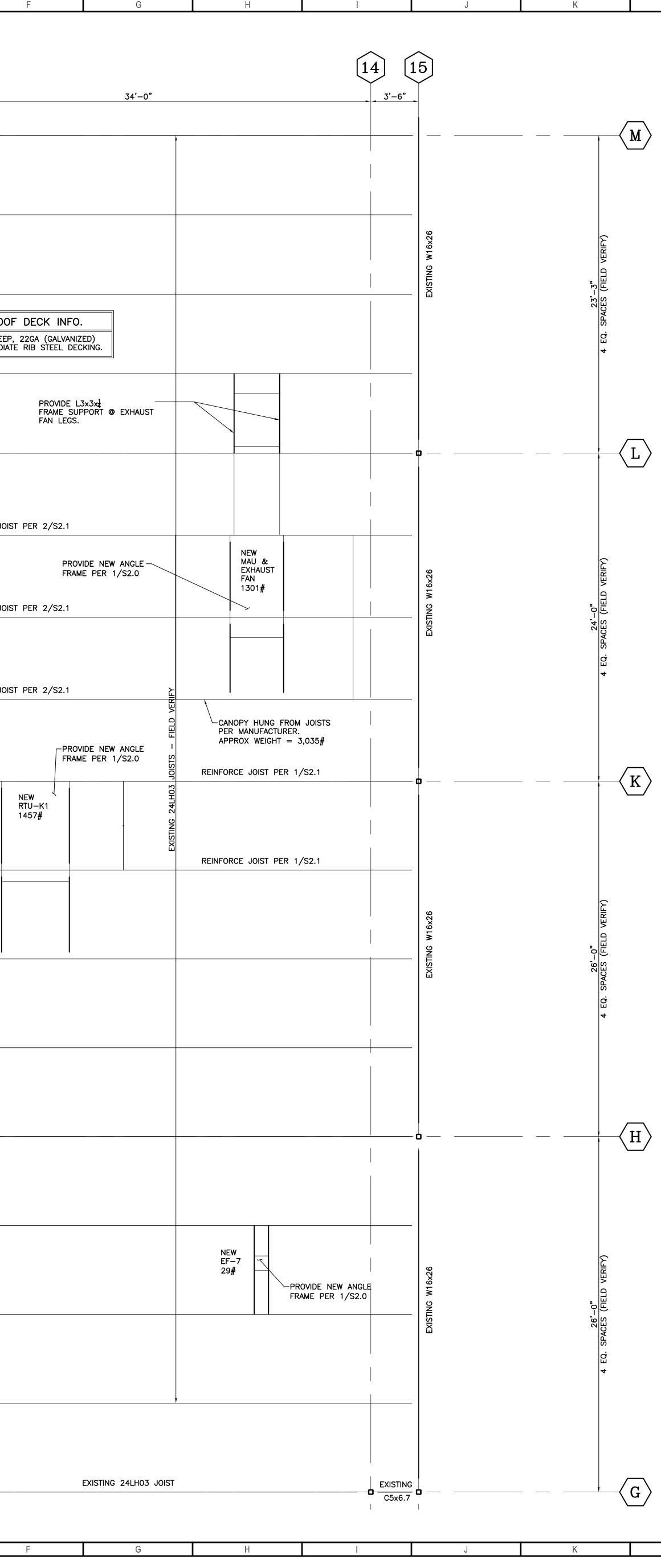
1. THE WARRANTY FOR ALL EQUIPMENT SHOULD BE 5 YEAR COMPRESSOR WARRANTY INCLUDING LABOR.

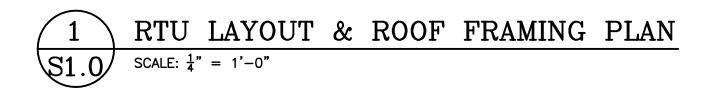
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2. 5 YEAR REFRIGERANT LEAK WARRANTY INCLUDING LABOR.



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RTU REPLACEMENT PLAN NOTES:

1. RTU LOCATIONS BASED ON MECHANICAL DRAWING LAYOUT. IF LOCATIONS DIFFER GREATLY THAN WHAT IS SHOWN ON STRUCTURAL AND MECHANICAL DRAWINGS, PLEASE NOTIFY ENGINEER PRIOR TO DEMOLITION OR MODIFICATION AS MOVEMENT OF LOCATION SHOWN WILL ALTER THE LOADING EXISTING JOIST WAS ANALYZED FOR AND MAY REQUIRE ADDITIONAL RETROFIT OF THE EXISTING JOIST.

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- 2. PROVIDE NEW RTU, FRAME, AND CURB. REMOVE EXISTING DECK AS NECESSARY TO INSTALL NEW FRAME. SEE DETAIL 1/S2.0 FOR NEW RTU FRAME INFORMATION. PLACE NEW RTU ATOP NEW FRAME & CURB. ANCHOR RTU TO CURB PER EQUIPMENT MANUFACTURER'S RECOMMENDATIONS.
- 3. ANY NEW STEEL MEMBERS/DECK INSTALLED OR EXISTING MEMBERS/DECK THAT REQUIRE RETROFIT SHALL BE PAINTED TO MATCH THE EXISTING STEEL MEMBERS/DECK.

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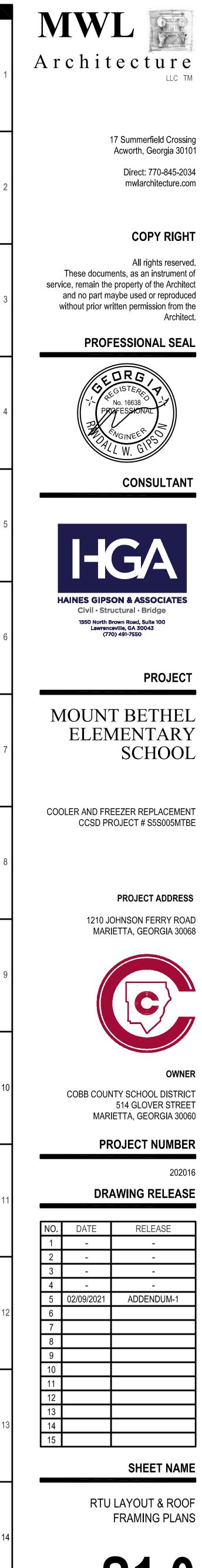
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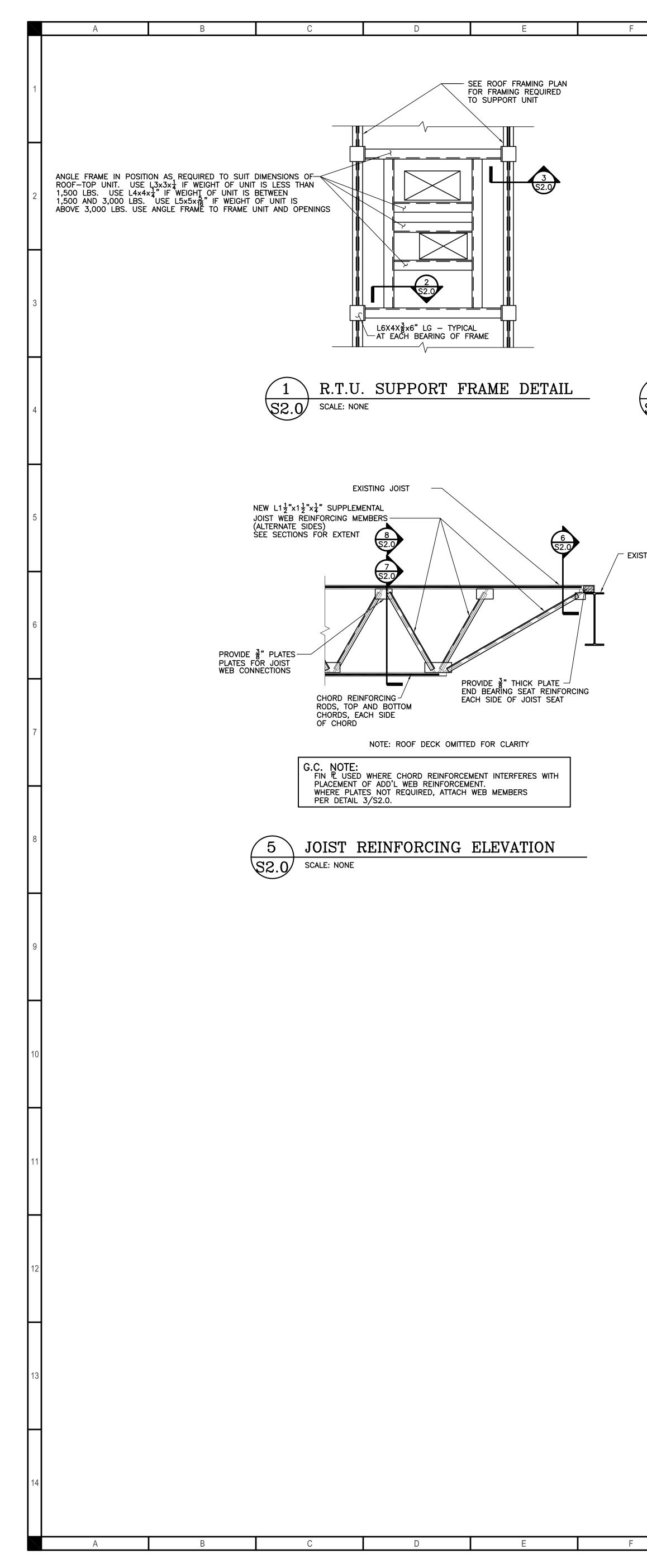
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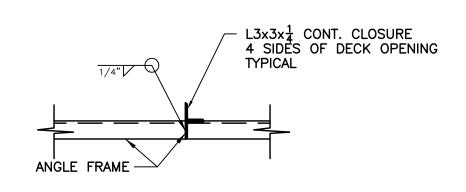
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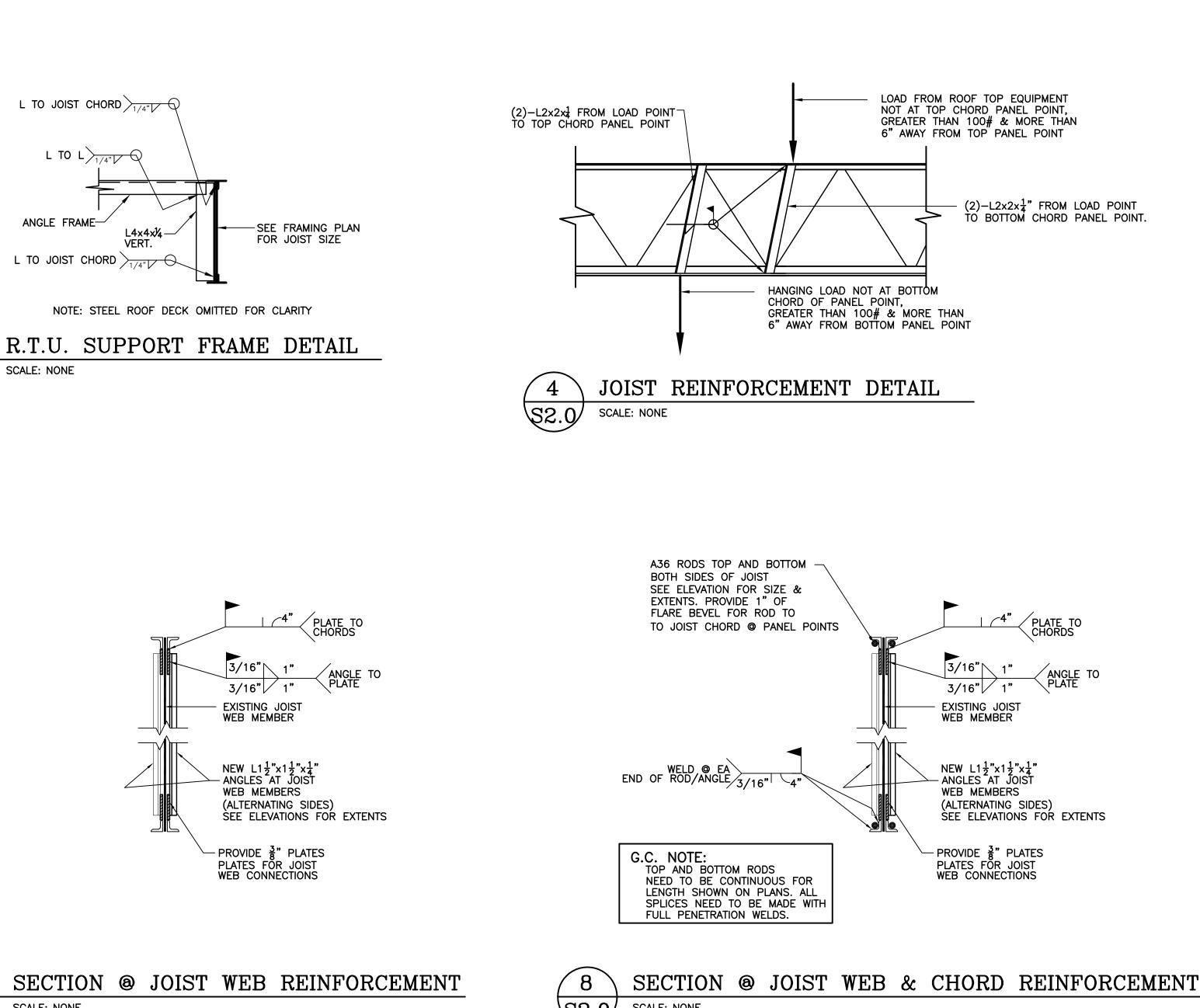


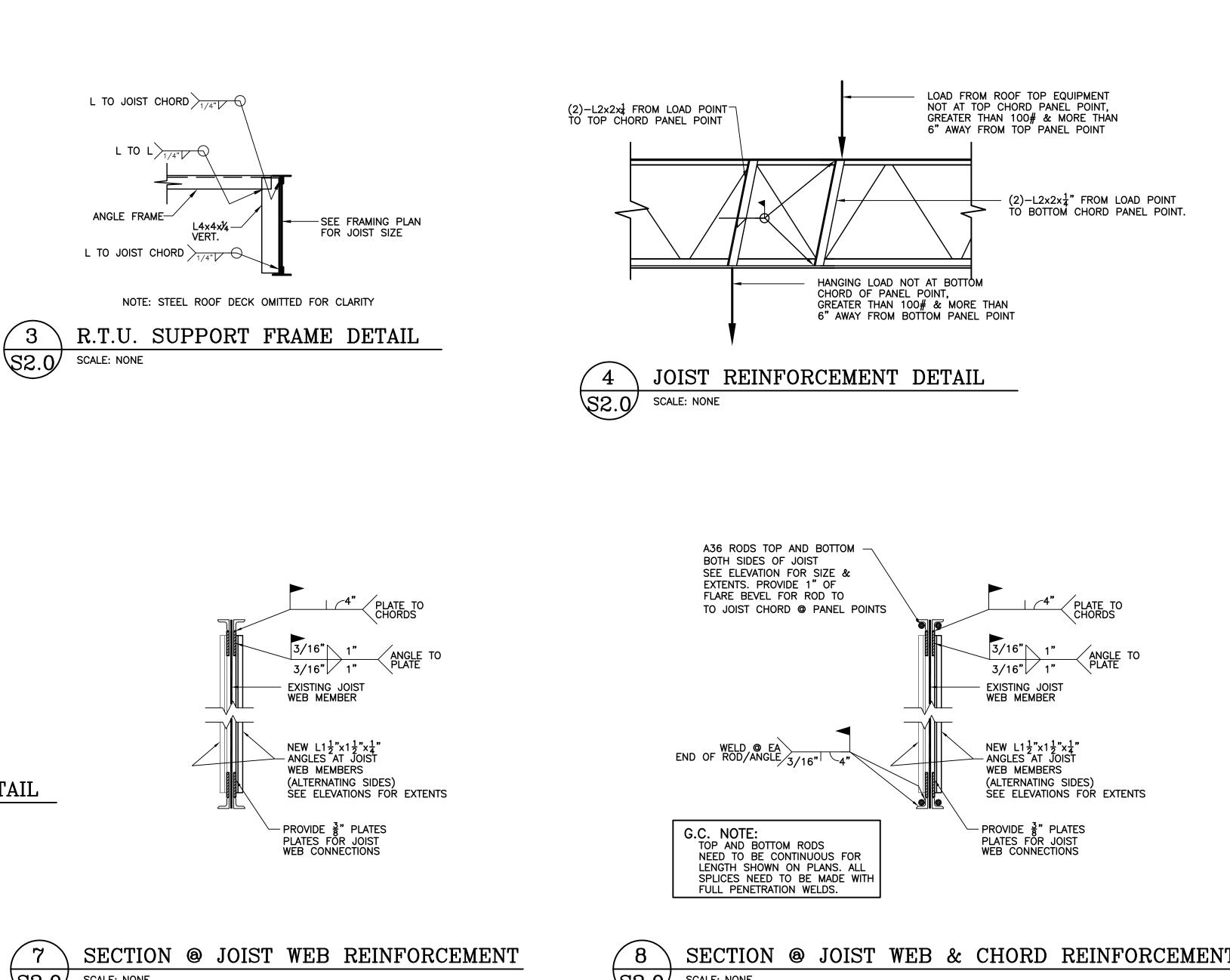
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NOTE: STEEL ROOF DECK OMITTED FOR CLARITY



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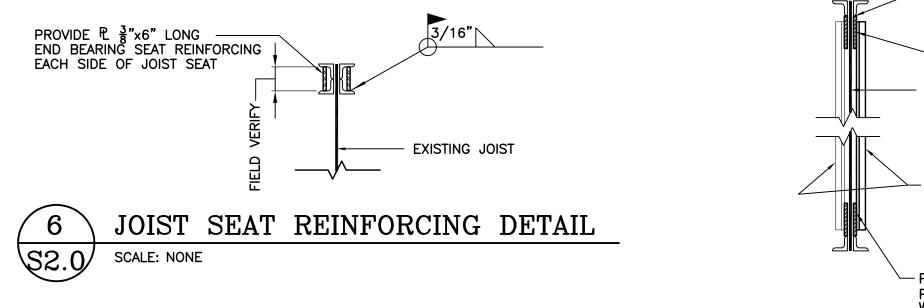
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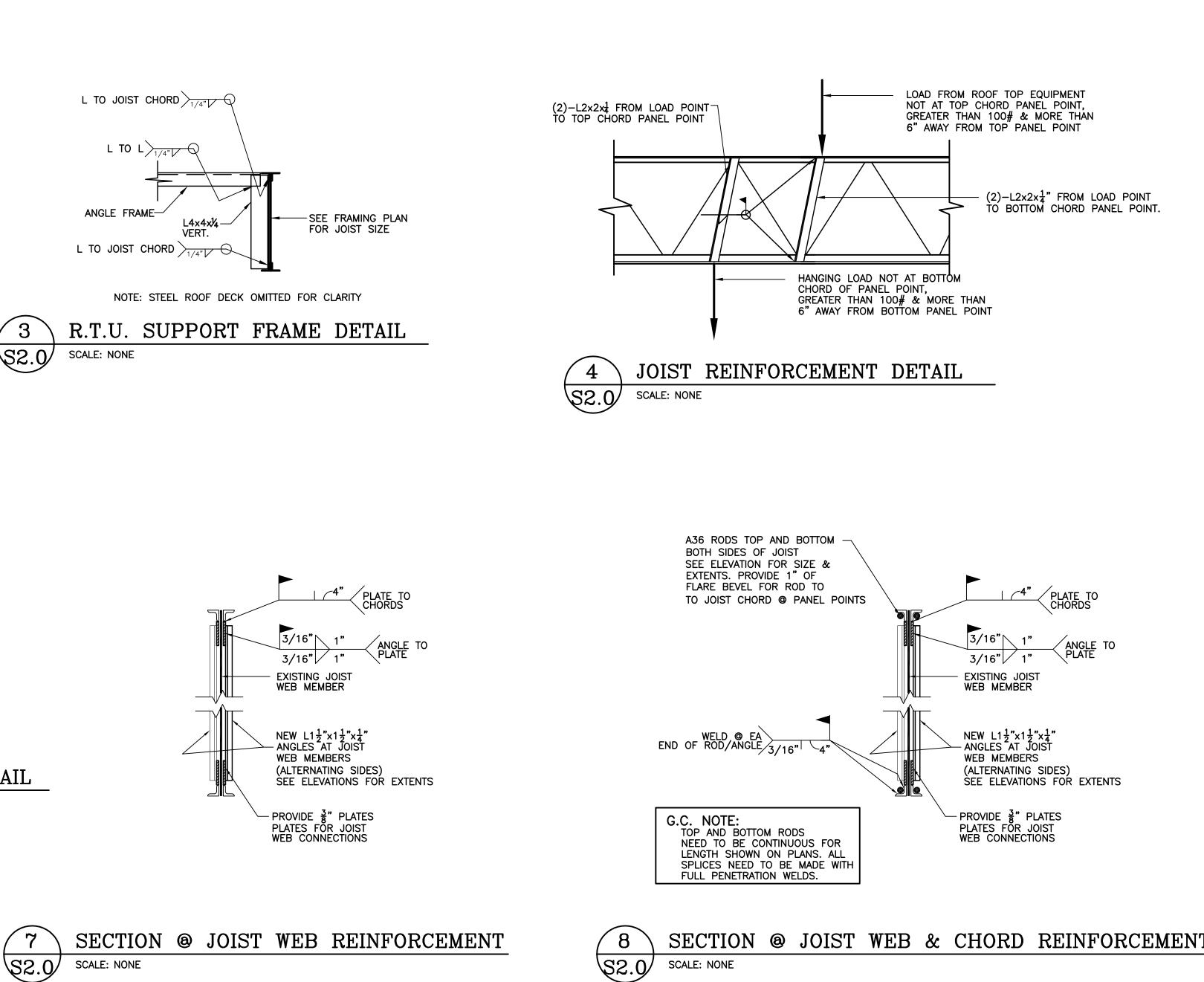
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GENERAL NOTES:

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- 1. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL BRACING DURING CONSTRUCTION. PROVIDE ADEQUATE SHORING OR BRACING DURING CONSTRUCTION TO RESIST ALL REQUIRED FORCES SUCH AS (BUT NOT LIMITED TO) DEAD LOADS, LIVE LOADS, SOIL PRESSURES, CONSTRUCTION LOADS, WIND AND UNBALANCED LOADING.
- 2. THE 2018 EDITION OF THE INTERNATIONAL BUILDING CODE WITH GEORGIA STATE AMENDMENTS SHALL APPLY.
- 3. CONTRACTOR SHALL VERIFY LOCATION OF ALL ROOF OPENINGS. ROOF OPENINGS GREATER THAN 12" DIAMETER SHALL BE FRAMED WITH L3x3x1/4"(MINIMUM).
- 4. GENERAL CONTRACTOR IS RESPONSIBLE FOR OBTAINING ACTUAL FIELD CONDITIONS OF EXISTING STRUCTURE. CONTRACTOR SHALL NOTIFY ENGINEER IF ACTUAL STRUCTURE IS NOT AS DEPICTED IN DOCUMENTS, PRIOR TO ANY FURTHER DEMOLITION OR MODIFICATION TO STRUCTURE.
- 5. ROOF TOP EQUIPMENT IS SHOWN FOR GENERAL LAYOUT AND CONFIGURATION COORDINATE EXACT UNIT SIZE AND LOCATION WITH MECHANICAL DWGS. FABRICATION OF CURB SUPPORTING FRAMES SHALL BE BASED UPON PARTICULAR UNIT PURCHASED. SEE EQUIPMENT MANUFACTURER'S DOCUMENTATION FOR SUPPORT FRAME DIMENSIONS AND CONFIGURATION
- 6. DETAILS NOT SHOWN SHALL BE ACCORDING TO: AMERICAN INST. OF STEEL CONSTRUCTION AMERICAN WELDING SOCIETY STEEL JOIST INSTITUTE AMERICAN IRON & STEEL INSTITUTE

A.I.S.C. SPECS. FOR STRUCTURAL STEEL

A.I.S.I. SPECS. FOR COLD FORMED STEEL

A.W.S. SPECS. FOR WELDING

S.J.I. SPECS. FOR STEEL JOISTS

– 24 P.S.F.

– 20 P.S.F.

– 5 P.S.F.

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– D (ASSUMED)

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- 0.143

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DESIGN LOADS: ROOF DEAD LOAD (ESTIMATED PER EXTG. CONDITIONS) ROOF LIVE LOAD (PER EXTG. DWGS.) SNOW LOAD

GROUND SNOW LOAD

WIND LOAD WIND VELOCITY (ULTIMATE) EXPOSURE

SEISMIC INFO .:

K

SEISMIC RISK CATEGORY MAPPED SPECTRAL RESPONSE ACCELERATIONS $S_s = 0.209$ MAPPED SPECTRAL RESPONSE ACCELERATIONS $S_1 = 0.089$ SOIL SITE CLASSIFICATION SPECTRAL RESPONSE COEFFICIENT SDS SPECTRAL RESPONSE COEFFICIENT SD1 SEISMIC DESIGN CATEGORY

SEISMIC COEFFICIENTS FOR MECHANICAL AND ELECTRICAL COMPONENTS $a_p = 2.5$ $R_p = 6.0$

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STEEL NOTES:

- 1. ALL STRUCTURAL STEEL SHALL BE PROVIDED AS FOLLOWS: PIPE COLUMNS (U.N.O.), ANGLES, PLATES, ETC. 36 K.S.I. YIELD
- 2. UNLESS NOTED OTHERWISE IN THE DRAWINGS, ALL FILLET WELDS SHALL BE MIN. $\frac{3}{6}$ " ALL WELDS SHALL BE MADE WITH E-70 ELECTRODES. MIN. LENGTH OF INTERMITTENT WELDS SHALL BE 1½".
- 3. PROOF OF WELDER CERTIFICATION SHALL BE AVAILABLE AT JOB SITE
- 4. ALL STRUCTURAL WELDED JOINTS SHALL CONFORM TO THE PROVISIONS OF AWS D1.1, STRUCTURAL WELDING CODE BY THE AMERICAN WELDING SOCIETY
- 5. NO LOADS ARE ALLOWED TO BE HUNG FROM ROOF DECK.

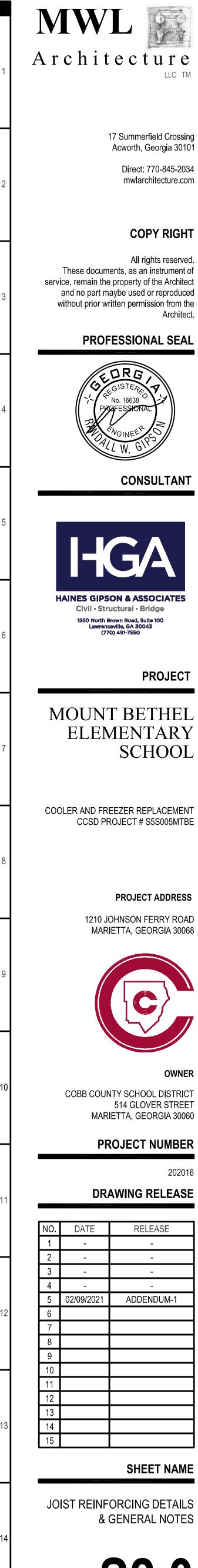
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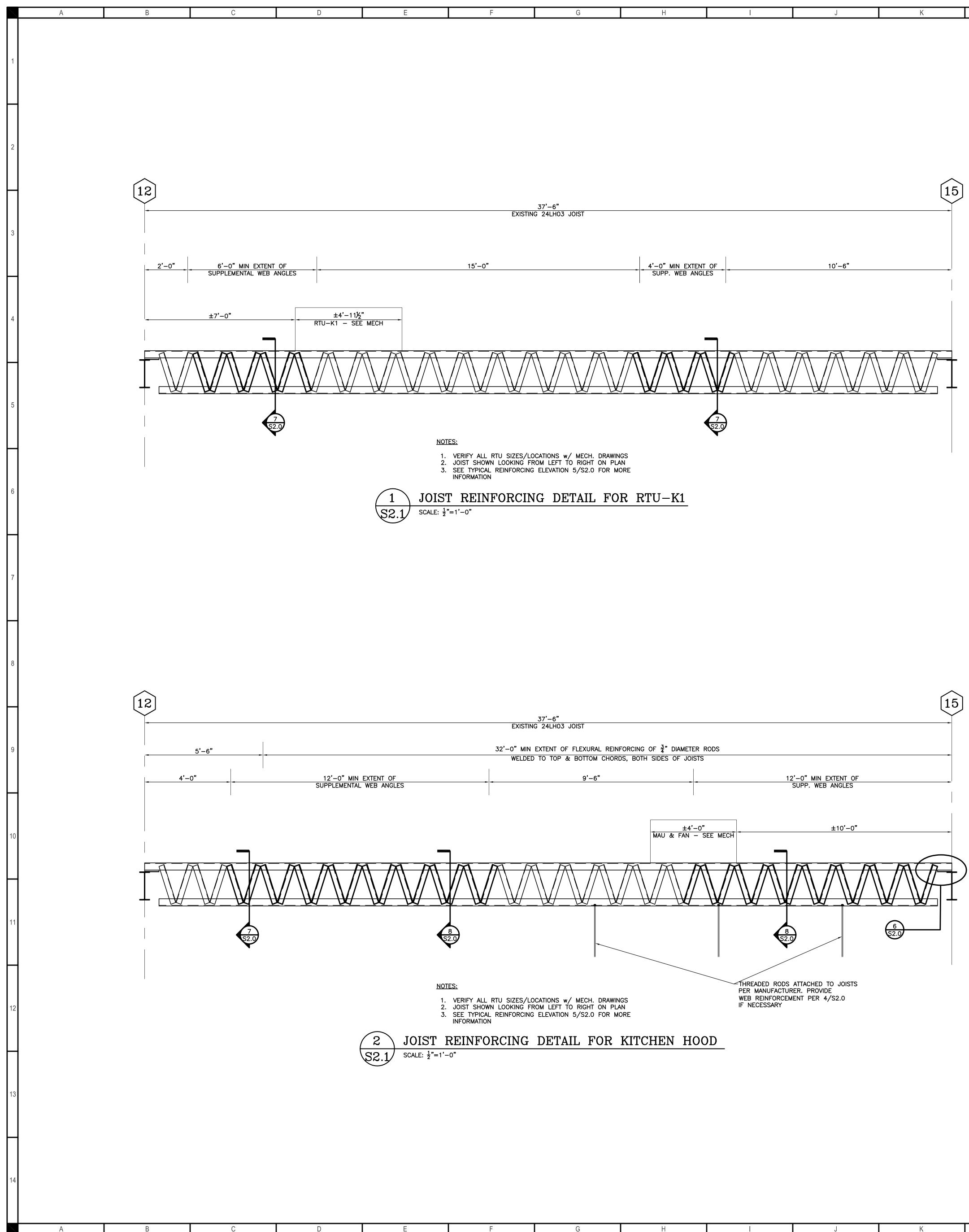
- 6. PROVIDE WELDING & SPECIAL INSPECTIONS PER 2018 IBC CHAPTER 17 AND IN ACCORDANCE WITH LOCAL JURISDICTION.
- 7. ANY NEW STEEL MEMBERS INSTALLED OR EXISTING MEMBERS THAT REQUIRE RETROFIT SHALL BE PAINTED TO MATCH THE EXISTING STEEL MEMBERS.

METAL DECK NOTES:

1. WHERE ROOF DECK IS REMOVED TO ALLOW FOR PLACEMENT OF EQUIPMENT SUPPORT FRAMES OR BEAMS, REPLACE WITH NEW DECK OF SAME GAUGE AND LAP MIN. 2" WITH EXISTING DECK. WELD DECK TO FRAME WITH $\frac{5}{8}$ " PUDDLE WELDS AT 6" O.C. PROVIDE AND REPAIR EXISTING ROOFING MATERIALS TO ACHIEVE WATERTIGHT CONDITION.







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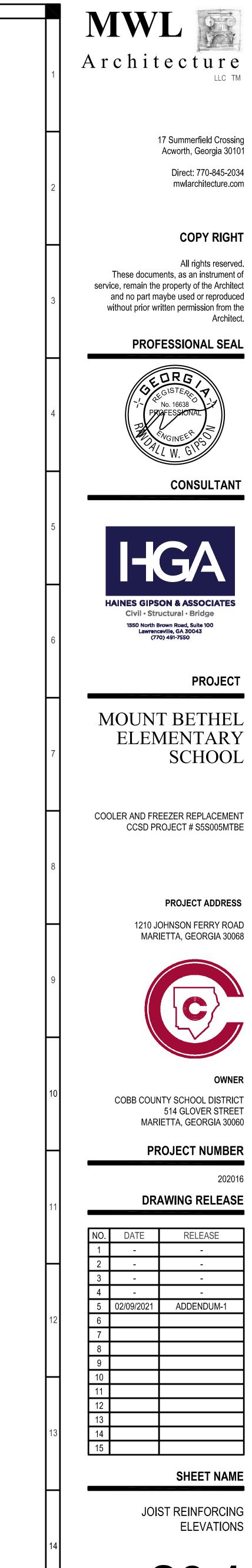
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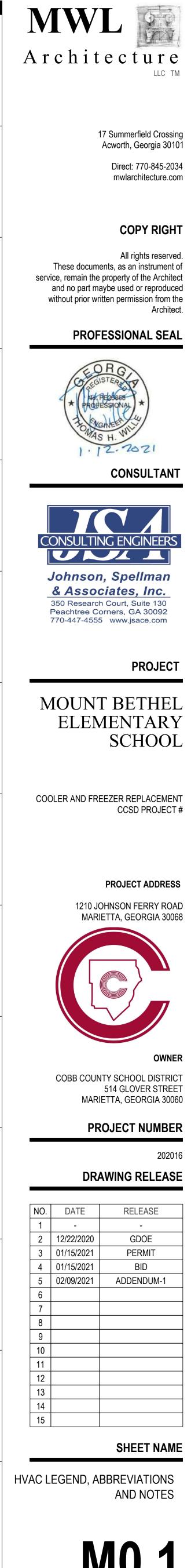
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C	COBB COUNTY	GENERAL NOT	ËS		G	ENERAL NOTE	S (APPLICABLE TO ALL HVA	AC SHEETS)	
	ROOF SURFACE FOR COUNT	CURBS SHALL BE A MINIMUM OF 8 ERFLASH ENDORSED BY THE ROOF	MANUFACTURER.		1.	PROVIDE INSULATED FLEXIBLE SIZE WITH SINGLE BLADE DAM TAKE—OFF.			
2.		DENTIFICATION SHALL BE LEGIBLE A IT WITH NON—CORRODING FASTENEF			2.	RUNOUTS TO DIFFUSERS SHA OTHERWISE NOTED.	LL BE SAME SIZE AS DIFFUS	ER NECK, UNLESS	
3.	ANNUNCIATORS, AND DETECT DESIGNATED ON THE CONTRA	SUCH AS, BUT NOT NECESSARILY L FORS) SHALL BE INSTALLED PLUMB ACT DRAWINGS. ALL DEVICE COVERS	LEVEL, AND IN THE LOCATIONS S AND TRIM SHALL FIT SNUGLY TO	,	3. ROUTE DUCTWORK AS TIGHT TO STRUCTURE AS POSSIBLE, UNLESS OTHERWISE NOTED.				
	LOCATIONS FOR SOME ITEMS	DES. IF THE CONTRACT DOCUMENTS S, THEN THE CONTRACTOR SHALL C TECT PRIOR TO INSTALLATION OF T	BTAIN CLARIFICATION AND	A	4.	MAXIMUM FLEXIBLE DUCT RUN DUCT FOR INDIVIDUAL RUNOU		JSE GALVANIZED STEEL	
<i>₹</i> 4.	. ALL RTU CONDENSATE DRAIN	N PIPING:	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	$\frac{1}{2}$	5.	BALANCE AIR DISTRIBUTION S	YSTEMS AS NOTED.		
	B. SHALL HAVE UNION CONI C. SHALL BE ROUTED TO R	'ITH AIR VENT ON OUTLET SIDE. NECTIONS AT THE INLET AND OUTLE OOF DRAIN AS SHOWN ON DRAWING	SS.		6.	UNLESS OTHERWISE NOTED, V BE MOUNTED AT 4'-0" AFF.	WALL MOUNTED THERMOSTATS	AND SENSORS SHALL	
	E. PROVIDE PRECAST CONC	OWN OR UNIT CONNECTIONS SIZE, N RETE SPLASH BLOCK, OR COPPER ID DIRECT CONDENSATE TO STORM	SPLASH PAN, BENEATH EACH	}	7.	COORDINATE ALL LAY—IN CEIL CEILING PLAN.	ING DIFFUSERS WITH ARCHITI	ECTURAL REFLECTED	
7.		TOP EQUIPMENT SUPPORTS SHALL		-	8.	PROTECT ALL MATERIALS AND	EQUIPMENT FROM DAMAGE.		
8.	. PROVIDE ADDITIONAL SUSPEN	NUFACTURER <u>AND</u> THE ROOF SYSTEINDED SUPPORTS AS MAY BE NECES	SSARY TO PREVENT FLEXIBLE		9.	CONTRACTOR SHALL PAINT AL RETURN AIR OPENINGS AND (GH SUPPLY AND	
	DUCTWORK FROM CONTACTIN ASSEMBLY.	NG THE CEILING MATERIAL AND/OR	THE CEILING FRAMING/GRID		10.	FLEXIBLE DUCT SHALL NOT B	BE INSTALLED ABOVE INACCES	SIBLE CEILINGS.	
9.	ASSEMBLY CODE NUMBERS;	ACES WITHOUT CEILINGS SHALL BE ALL SUCH MARKS SHALL BE ON T	HE INSIDE OF DUCTWORK. DURING		11.	FLEXIBLE DUCT SHALL NOT B SYSTEMS.	BE INSTALLED IN EITHER RETU	JRN OR EXHAUST AIR	
	TOP (CONCEALED-FROM-NO	, KEEP THE OUTSIDE SURFACES CL DRMAL—VIEW) OF THE DUCT AND SF	PIRALS SHALL BE CONTINUOUS.		12.	ALL HVAC CONDENSATE PIPIN	IG SHALL BE 1" UNLESS OTH	HERWISE NOTED.	
		ER STRAPS SHALL BE NEATLY CLIP N TO APPEARANCE IN SPACES WITH L NOT BE ACCEPTABLE.			13.	EQUIPMENT ABOVE CEILINGS S ACCESSIBLE FROM CEILING LE			
	ON ALL OF THE EQUIPMENT.	E TEMPORARY PROTECTIVE COVERS		<u>/5</u>	14.	EACH SINGLE LINE REFRIGERA REPRESENTS A LINE SET (TW SHALL BE DETERMINED BY TH	O INDIVIDUAL PIPES). REFRIG	ERANT PIPE SIZES	
/	1. ALL SUPPLY GRILLES WITHIN DISCHARGE DIFFUSERS WITH	N 12 FEET OF ROOM SENSORS SHA BLANKED-OFF SIDE FACING THE T	ALL BE FACTORY BUILT 3-WAY HERMOSTAT.		15.	ALL REFRIGERANT PIPING ROU DRYWALL. SEE DETAIL ON A	JTED IN CORRIDORS SHALL E		
					16.	DUCT SIZES SHOWN ON DRAV AREA REQUIRED. INCREASE O ACCOMMODATE DUCT LINER T	VERALL DUCT DIMENSIONS AS		

HVAC	C LEGEND & ABBREVIATIONS
SYMBOL	DESCRIPTION
2 00×00 2	RECTANGULAR AIR DUCT – FIRST DIMENSION IS SIDE SHOWN
	ROUND DUCT (A"ø) OR FLAT OVAL (AxB)
	SUPPLY OR OUTSIDE AIR RECTANGULAR DUCT RISE OR DROP
	RETURN AIR RECTANGULAR DUCT RISE OR DROP
	EXHAUST AIR RECTANGULAR DUCT RISE OR DROP
	DUCT SMOKE DECTECTOR
	MANUAL VOLUME DAMPER
	SQUARE ELBOW WITH TURNING VANES
	DUCT TRANSITION, RECTANGULAR TO ROUND OR OVAL
	DUCT TRANSITION, RECTANGULAR TO RECTANGULAR
, →RS	REFRIGERANT SUCTION
RL	REFRIGERANT LIQUID
<u>،</u>	CONDENSATE DRAIN
Θ	DDC HUMIDITY SENSOR
S	DDC TEMPERATURE SENSOR
Ū	THERMOSTAT
	CARBON MONOXIDE SENSOR

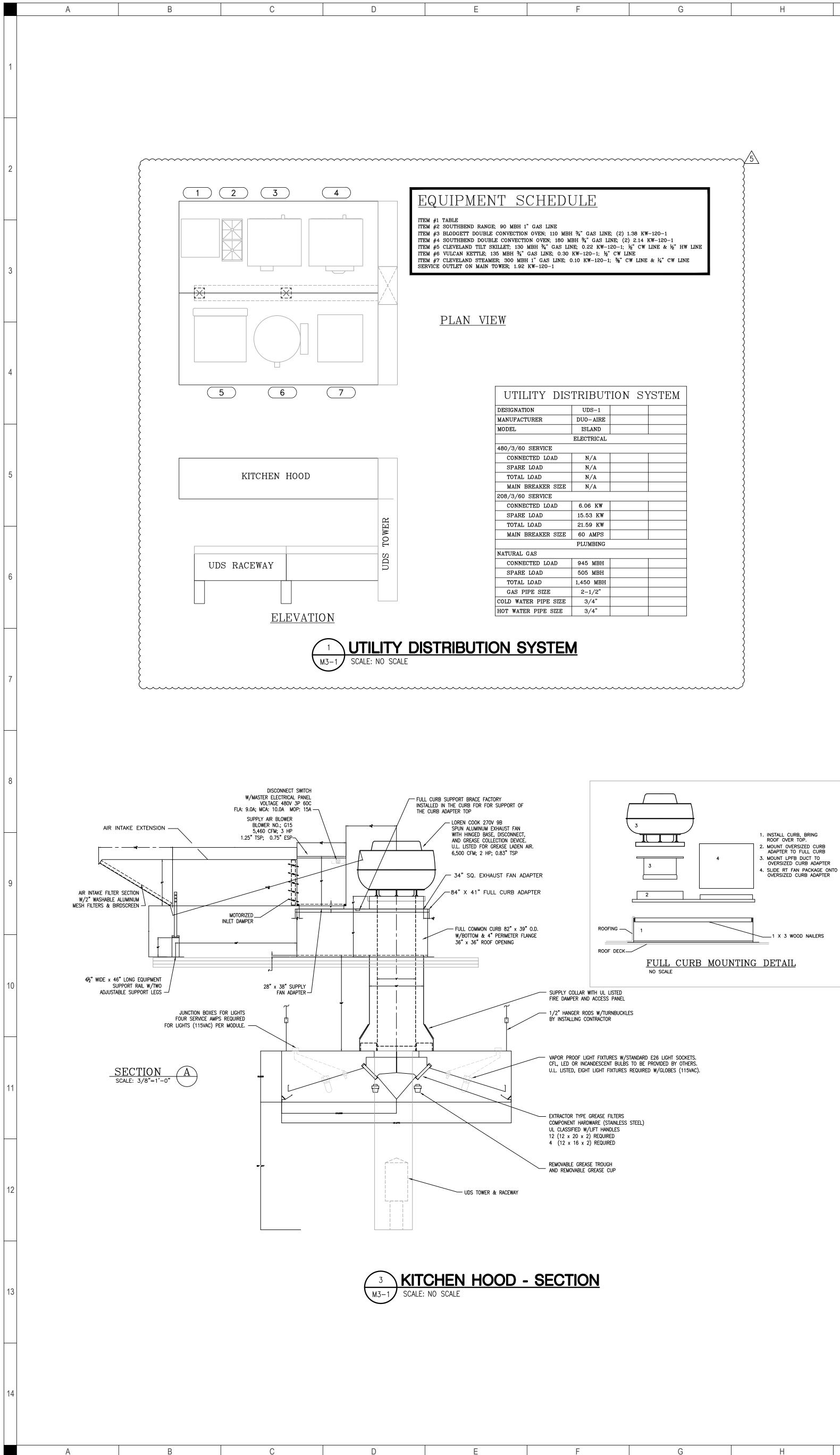
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GENERAL NOTES

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VENTILATOR CONSTRUCTION ALL EXPOSED SURFACES TO BE CONSTRUCTED OF 18 GA. 300 SERIES STAINLESS STEEL. FOIL FACED INSULATION ON INNER SURFACE OF CANOPY'S SUPPLY PLENUM. THIS DUO-AIRE VENTILATOR IS U.L. LISTED AS A HOOD ASSEMBLY WITH A SUPPLY FIRE

DAMPER UNDER U.L. FILE NUMBER MH11667. THIS DOUBLE SHELL SHORT-CIRCUIT HOOD SYSTEM IS CONSTRUCTED IN MULTIPLE MODULES THAT MUST BE FIELD MATED AND FINISHED BY INSTALLER. MATING STRIPS AND U-CLIPS WILL BE PROVIDED BY DUO-AIRE.

ALL EXTERNAL WELDING REQUIRED BY BY LOCAL INSPECTORS TO BE PROVIDE BY INSTALLING CONTRACTOR.

UNLESS OTHERWISE NOTED, CONCENTRIC DUCTWORK FURNISHED BY DUO-AIRE WILL COMPLY WITH DIMENSIONS ON DRAWING.

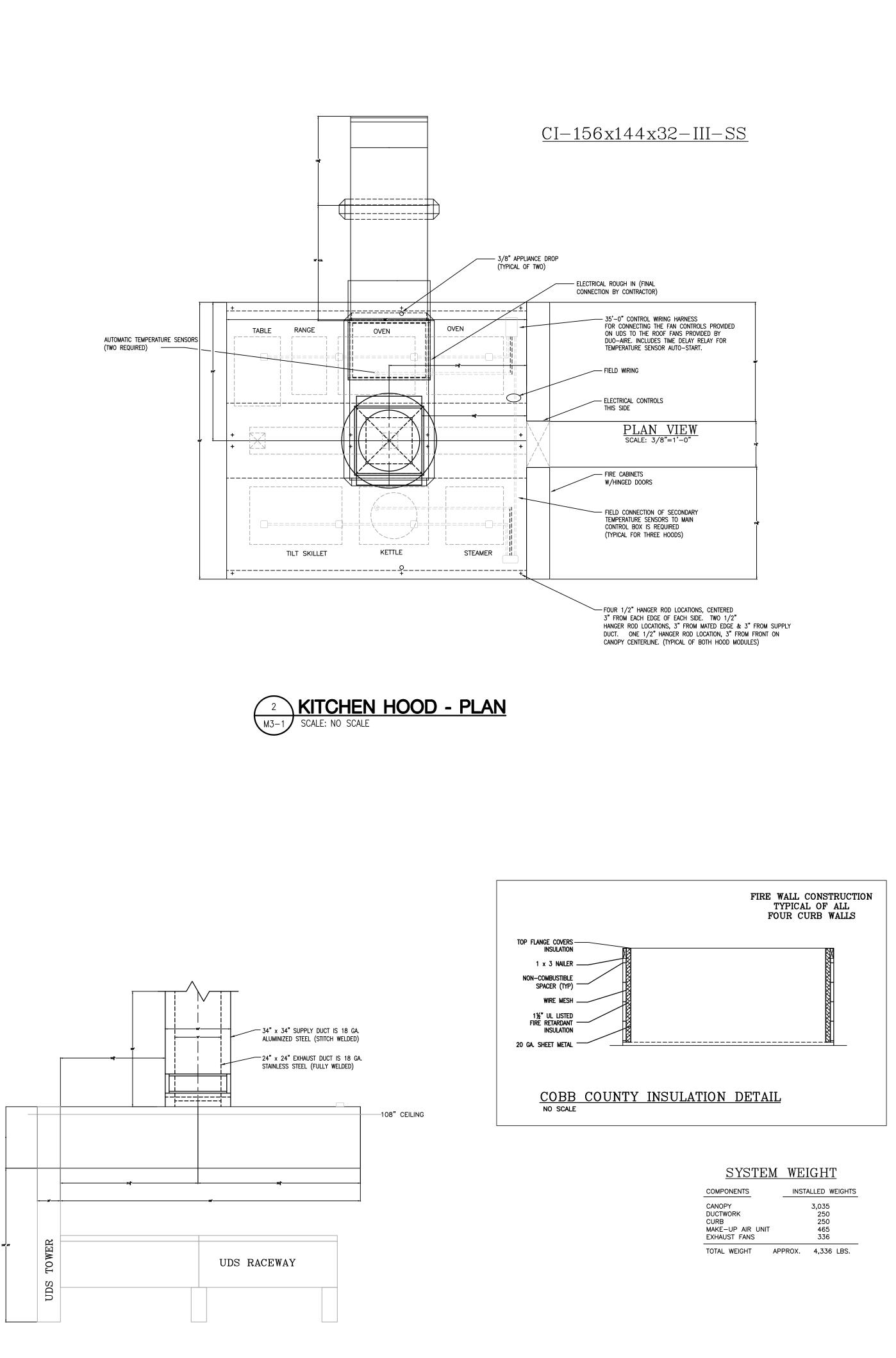
THIS DUO-AIRE CONCENTRIC DUCTWORK IS U.L. LISTED FOR 1" CLEARANCE TO COMBUSTIBLE MATERIALS AND AS "GREASE DUCT FOR RESTAURANT COOKING APPLIANCES" UNDER U.L. FILE NUMBER MH10644.

UNLESS OTHERWISE NOTED, ROOF CURB CAP AND MAKE-UP AIR UNIT IS TO BE GALVANIZED STEEL WITH SLATE GRAY BAKED ENAMEL FINISH.

FRESH AIR INTAKE MUST BE LOCATED A MINIMUM OF 10'-0" FROM ANY VENT OR EXHAUST FAN DISCHARGE.

THESE U.L. LISTINGS INDICATE THAT LISTED EQUIPMENT MEETS OR EXCEEDS ALL REQUIREMENTS OF NFPA 96.

PYROCHEM WET CHEMICAL FIRE PROTECTION SYSTEM, LOCALLY INSTALLED, SHALL CONFORM TO THE REQUIREMENTS OF NFPA 96.17A, UL 300 AND WILL BE UL LISTED. MECHANICAL GAS SHUT-OFF VALVE. FOUR AUXILIARY CONTACTS FOR CONNECTION TO BUILDING FIRE ALARM SYSTEM AND FOR ELECTRIC POWER SHUNT-TRIP BREAKER. EXPOSED PIPING FOR SURFACE PIPING SHALL BE STAINLESS STEEL.



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ELEVATION Scale: 3/8"=1'-0"



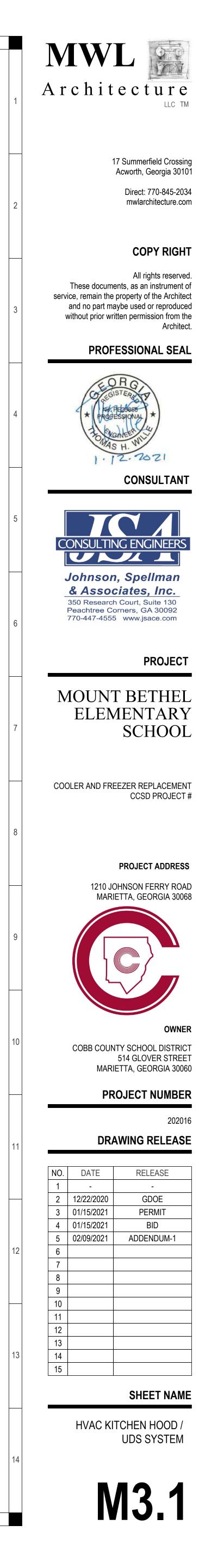
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6. PROVIDE IONIZATION FILTER IN SUPPLY AIR DUCT. 7. PROVIDE_NON=POWERED_CONVENIENCE_OUTLET_ROWERED_SEPARATELY_BE_ELECTRICAL_CONTRACTOR. 8. WARRANTY SHALL INCLUDE 5-YEAR COMPRESSOR INCLUDING LABOR AND 5-YEAR REFRIGERATION LEAK WARRANTY INCLUDING LABOR. 9. UNIT FILTERS SHALL BE WITH FILTER FRAMES AND COBB COUNTY APPROVED MEDIA FROM 'FILTERS FOR INDUSTRY'

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PACKAGED ROOFTOP UNIT SCHEDULE

MAX.	COOLING COIL						GAS HEAT	FILTERS	ELECTRICAL					
VENT.	GROSS COIL CAPACITY	MIXED	MIXED	STAGES	UNIT	LAT	GAS HEAT INPUT		RTU		MINIMUM EFFICIENCY	DESIGN BASIS	REMARKS	
AIR (CFM)	TOTAL/SENS. (MBH)	EAT DB	EAT WB	STAGES	MIN. LAT	DEWPT	LOW/HIGH	AIR FILTER	VOLTAGE	MCA				
720	117.84/87.54	80.0°F	67.0°F	4	57.5°F	56.6°F	120 / 180	2" MERV 8	480v/3ø	25	14.3 IEER	CARRIER 48HCDE11	(1)(2)(3)(4)(5)(6)(7)	

F. SUMMER RETURN 77F DB/ 67F WB, WINTER RETURN 68F DB/ 30%RH ESS STEEL GAS HEAT EXCHANGER (MODULATION GAS HEAT ABOVE 10 TONS), 100% ECONOMIZER, THRU–BASE ELECTRICAL , NON–POWERED CONVENIENCE OUTLET, DISCONNECT SWITCH AND R410 REFRIGERANT.

IEDIA FROM 'FILTERS FOR INDUSTRY'

	GREASE HOOD SYSTEM										
LOCATION	BASIS OF DESIGN DUO-AIRE	HOOD SIZE	FANS	EXHAUST FANS DESIGNATION CFM BHP FAN				MAKE-UP AI DESIGNATION	R CFM	BHP	REMARKS
KITCHEN	CI-156x144x32-III-SS	13'x12'	SINGLE	KEF-1	6,500	1.75	SINGLE	KSF-1	5,460	2.35	(1)(2)

(1) GREASE HOOD SYSTEM SHALL BE COMPLETE PRE-FABRICATED SYSTEM INCLUDING DOUBLE ISLAND CANOPY, GREASE FILTERS, EXHAUST AND SUPPLY FANS, DUCTWORK, CONTROL PANEL, ROOF SUPPORTS AND FIRE EXTINGUISHING SYSTEM.

(2) SIZE BASED ON KITCHEN DRAWINGS FOR EQUIPMENT LOCATED UNDER HOOD.(3) UTILITY DISTRIBUTION SYSTEM SHALL BE INCLUDED WITH HOOD.

EXHAUST FAN SCHEDULE									
MARK	TYPE	SERVES	CFM	ESP	BHP	FAN RPM	VOLTAGE	DESIGN BASIS	REMARKS
EF-7	ROOF MOUNTED CENTRIFUGAL	TOILET/JANITOR'S CLOSET	300	0.35"	1/10	1,216	120/1ø	GREENHECK G-90-VG	(1)(2)(3)
HOOD-EF	ROOF MOUNTED UTILITY SET	KITCHEN HOOD EXHAUST	6,500	0.83"	1.75	1,800	480/3ø	СООК 270V9В	(2)(3)(4)
HOOD-SF	ROOF MOUNTED UTILITY SET	KITCHEN HOOD MAKE-UP	5,460	1.25"	2.35	1,800	480/3ø	DELHI G15	(2)(3)(4)

(1) DIRECT DRIVE.

(2) PROVIDE NEMA 3R DISCONNECT SWITCH.(3) PROVIDE BACKDRAFT DAMPER.

(4) BELT DRIVE

DUCTLESS SPLIT SYSTEM SCHEDULE									
MARK	SERVES	TYPE	MAXIMUM CFM	OUTSIDE AIR	FAN POWER	TOTAL COOLING CAPACITY	VOLTAGE	REMARKS	
DSSA-1	DRY STORAGE 164	CEILING RECESSED	425	0	30 W	9.0 MBH	208v/1ø	(1)(2)(3)(4)(5)	
DSSA-2	MGR OFFICE 164	CEILING RECESSED	425	0	30 W	9.0 MBH	208v/1ø	(1)(2)(3)(4)(5)	

(1) COOLING CAPACITIES AT 75°F DB/64°F WB ENTERING AIR TEMPERATURE, 95°F AMBIENT.
 (2) PROVIDE MATCHING OUTDOOR CONDENSING UNIT (TAGGED AT DSSC-#) TO PROVIDE CAPACITIES AS

SCHEDULED; VOLTAGE OF OUTDOOR UNITS TO BE 208v/1ø.

(3) SYSTEM DESIGN BASIS CARRIER 40MBCQ SERIES.(4) PROVIDE LOW AMBIENT WIND BAFFLE FOR OPERATION TO 0°F.

(5) PROVIDE IN PAN TYPE ACCESSORY CONDENSATE PUMP (LITTLE GIANT EC SERIES OR EQUAL) WITH INDOOR

(6) WARRANTY SHALL INCLUDE 5–YEAR COMPRESSOR INCLUDING LABOR AND 5–YEAR REFRIGERATION LEAK WARRANTY INCLUDING LABOR.

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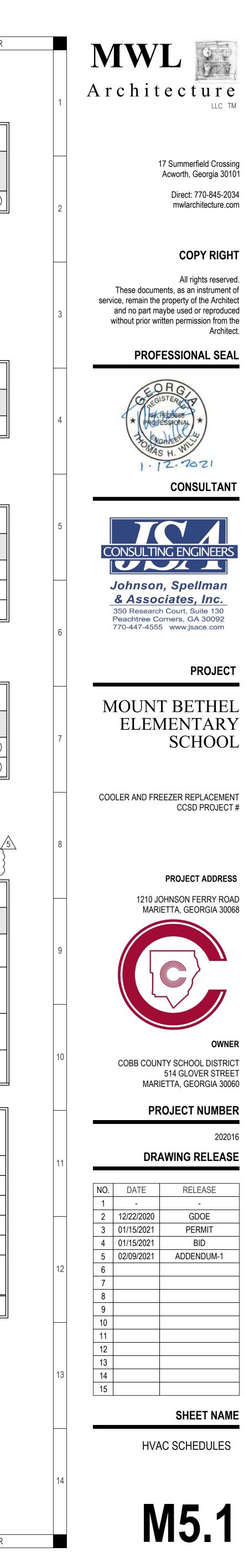
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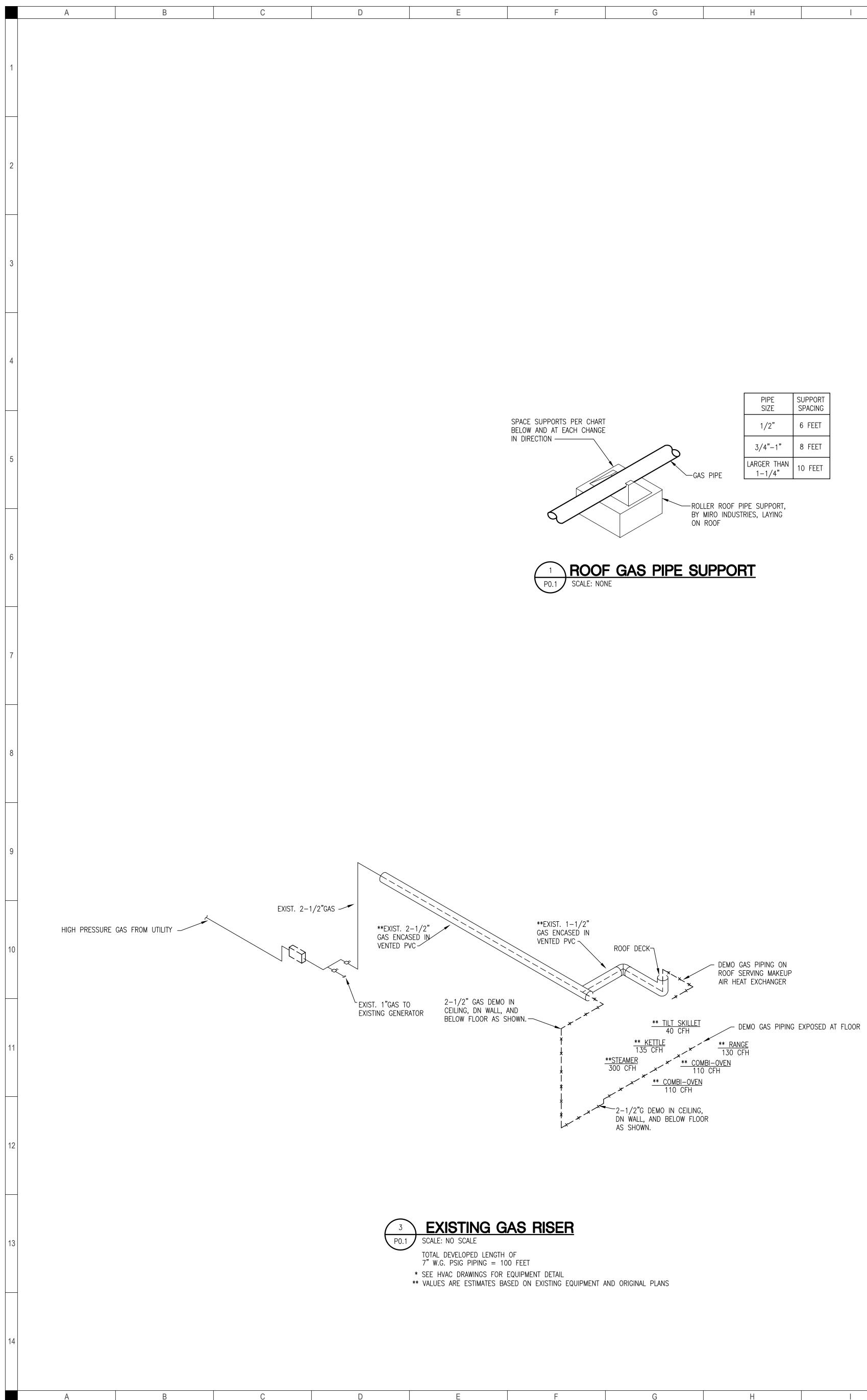
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	GRILLE, REGISTER, AND DIFFUSER SCHEDULE									
MARK	DESCRIPTION	FINISH								
S-1	24x24 STEEL SQUARE CEILING DIFFUSER, LAY-IN FRAME, 4 WAY THROW, ADJUSTABLE PATTERN, FULL FACE, O.B. DAMPER, WITH ROUND NECK, LOUVERED FACE WITH INDUCTION VANES, NECK SIZE AS SHOWN. TITUS TDV.	BAKED OFF— WHITE ENAMEL								
S-2	24x24 STEEL SQUARE CEILING DIFFUSER, LAY—IN FRAME, 3 WAY THROW, ADJUSTABLE PATTERN, FULL FACE, O.B. DAMPER, WITH ROUND NECK, LOUVERED FACE WITH INDUCTION VANES, NECK SIZE AS SHOWN. TITUS TDV.	COLOR BY ARCHITECT								
R-1	24x24 EGG CRATE RETURN GRILLE. 1"x 1"x 1" GRID CORE, ALL-ALUMINUM, SURFACE MOUNTED FRAME, SIZE AS SHOWN, TITUS 50R SERIES.	BAKED OFF— WHITE ENAMEL								
E-1	1/2"x 1/2"x 1/2" ALL-ALUMINUM EGGCRATE EXHAUST GRILLE, SIZE AS SHOWN, EXPOSED DUCT FRAME, O.B. DAMPER. TITUS 50R SERIES.	BAKED OFF- WHITE ENAMEL								

		ASE HOOD SCHEDULE
EXHAUST AIR		
KEF-1	6,500 CFM	
MAKE-UP AIR		
<u>MAU-1</u>	5,460 CFM	
<u>RTU-K1</u>	360 CFM	(MINIMUM OUTSIDE AIR FLOW)
<u>RTU–6</u> (FROM_ADJACENT CAFETERIA)	580 CFM	(MINIMUM OUTSIDE AIR FLOW)
TOTAL :	100 CFM	(NEGATIVE)
	TO REMAIN UNDER FAN OPERATION	NEGATIVE PRESSURE DURING

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HIGH PRESSURE GAS FROM UTILITY -----

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PIPE SIZE	SUPPORT SPACING
1/2"	6 FEET
3/4"-1"	8 FEET
LARGER THAN 1-1/4"	10 FEET

	GAS EQUIPMENT SCHEDULE	
MARK	DESCRIPTION	CFH
RTU-K1	ROOF TOP UNIT	180
KITCHEN ITEM 11	TWO BURNER RANGE	130
KITCHEN ITEM 12	DOUBLE CONVECTION OVEN (2 @ 110 CFH EA.)	220
KITCHEN ITEM 13	KETTLE	135
KITCHEN ITEM 15	30 GAL TILT SKILLET	40
KITCHEN ITEM 16	CONVECTION STEAMER	300
	TOTAL	1,005

PLUMBI	NG SYMBOLS
·	SOIL OR WASTE PIPING BELC
،	SOIL OR WASTE PIPING ABOV
۶	VENT PIPING
<u>۶</u>	UNION
ک ے ۔۔۔ ز	BALL VALVE
;	FLOOR DRAIN (FD) OR HUB
, ,	FLOOR CLEANOUT
<u>, wco</u>	WALL CLEANOUT (WCO)
,(),	GAS REGULATOR
· ← →	GAS VALVE
·	GAS PIPING
	LIMIT OF DEMOLITION
•	CONNECT TO EXISTING
··×──×─	EXIST. PIPING OR EQUIP. TO
·	PIPE RISE
·	PIPE DROP

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	A	BBREVIATIONS
OR SLAB	S	SANITARY
R	V	VENT
	W	WASTE
	GW	GREASE WASTE
—	СО	CLEANOUT
))	FCO	FLOOR CLEANOUT
, 	WCO	WALL CLEANOUT
	FD	FLOOR DRAIN
	FS	FLOOR SINK
	HD	HUB DRAIN
	ABV.	ABOVE
	BEL.	BELOW
	I.E.	INVERT ELEVATION
	TYP.	TYPICAL
D	WH	WATER HEATER
	MAX.	MAXIMUM
	MIN.	MINIMUM
	G	NATURAL GAS

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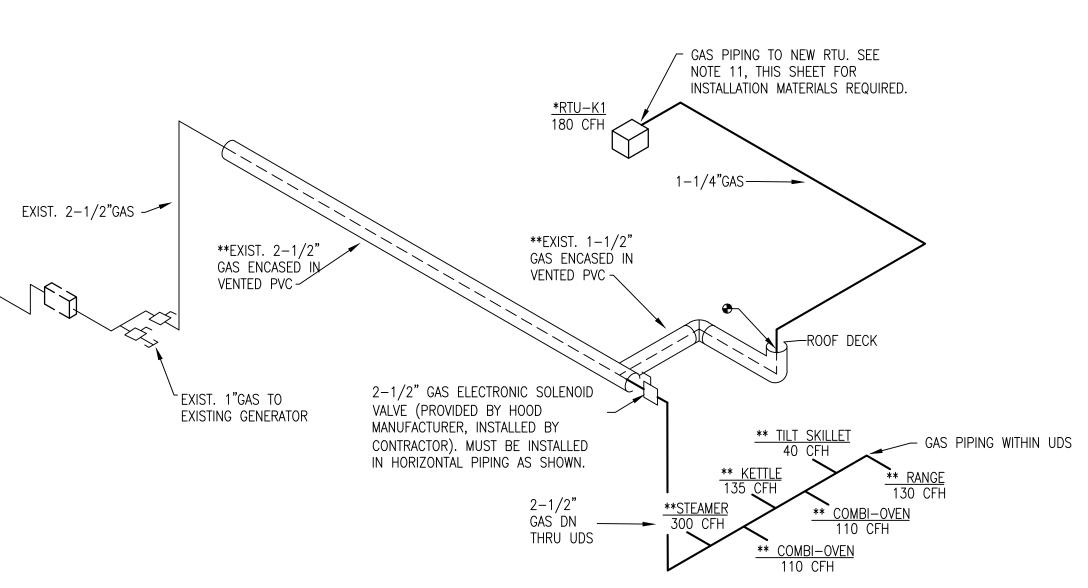
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Gl	ENERAL NOTE	S	
1.	VERIFY LOCATIONS AND SIZING BEGINNING WORK.	OF EXISTING PIPING AND FIXT	URES PRIOR TO
2.	MAKE FINAL CONNECTIONS TO EQUIPMENT PROVIDED UNDER		, INCLUDING
3.	PIPING AND SYSTEMS NOT SHO	OWN TO BE REMOVED SHALL R	EMAIN.
4.	COORDINATE SHUTDOWN OF AL	L SYSTEMS TO BE REMOVED W	ITH THE OWNER

- 5. CONCEAL ALL PIPING IN FINISHED PORTIONS OF THE BUILDING UNLESS NOTED OTHERWISE.
- 6. VERIFY ALL EXISTING UTILITIES PRIOR TO BEGINNING WORK.

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- 7. CONNECTIONS BETWEEN TWO DISSIMILAR METALS SHALL BE MADE WITH DIELECTRIC UNIONS.
- 8. THESE DRAWINGS HAVE BEEN PREPARED FROM THE LATEST INFORMATION AVAILABLE, BUT VARIATIONS MAY OCCUR IN THE ACTUAL CONSTRUCTION. ANY DISCREPANCIES SHALL BE REPORTED TO THE ENGINEER PRIOR TO COMMENCING WORK EFFECTED.
- 9. PENETRATIONS OF RATED ASSEMBLIES SHALL BE FIRE STOPPED. 10. WHERE STRUCTURE IS DAMAGED DURING CONSTRUCTION AND INSTALLATION OF
- EQUIPMENT OR FIXTURES IS AFFECTED, THE CONTRACTOR SHALL REPAIR THE DAMAGED AREA TO MATCH THE PROPOSED CONDITION. 11. ALL FIXTURE CONNECTIONS SHALL BE MADE WITH NEW FITTINGS. CONNECT GAS
- PIPING TO NEW EQUIPMENT WITH DIRT LEG (4" MIN), GAS COCK, AND UNION FITTING.
- 12. THE AFFECTED WASTE SYSTEM SHALL BE RODDED-OUT AND FLUSHED CLEAN PRIOR TO FINAL INSPECTION OR TURNING THE BUILDING OVER TO THE OWNER.
- 13. ALL FIXTURES AND EQUIPMENT SHALL BE KEPT CLEAN DURING ALL CONSTRUCTION AND NOT USED DURING CONSTRUCTION.
- 14. COORDINATE NEW PIPING WITH DUCTWORK, LIGHTING FIXTURES, STRUCTURE AND ARCHITECTURAL CEILING HEIGHTS.
- 15. CAP ALL PIPING ENDS DURING CONSTRUCTION TO PREVENT ENTRY OF DEBRIS.
- 16. PAINT ALL EXTERIOR NATURAL GAS PIPING TO MATCH BUILDING EXTERIOR.





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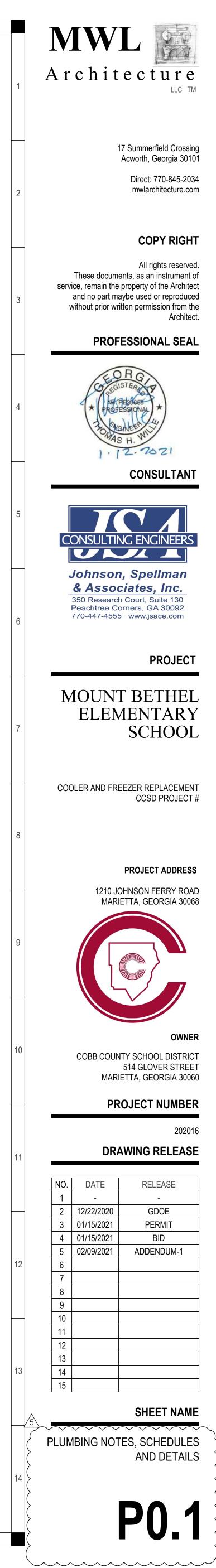
TOTAL DEVELOPED LENGTH OF 7" W.G. PSIG PIPING = 100 FEET

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* SEE HVAC DRAWINGS FOR EQUIPMENT DETAIL ** VALUES ARE ESTIMATES BASED ON EXISTING EQUIPMENT AND ORIGINAL PLANS

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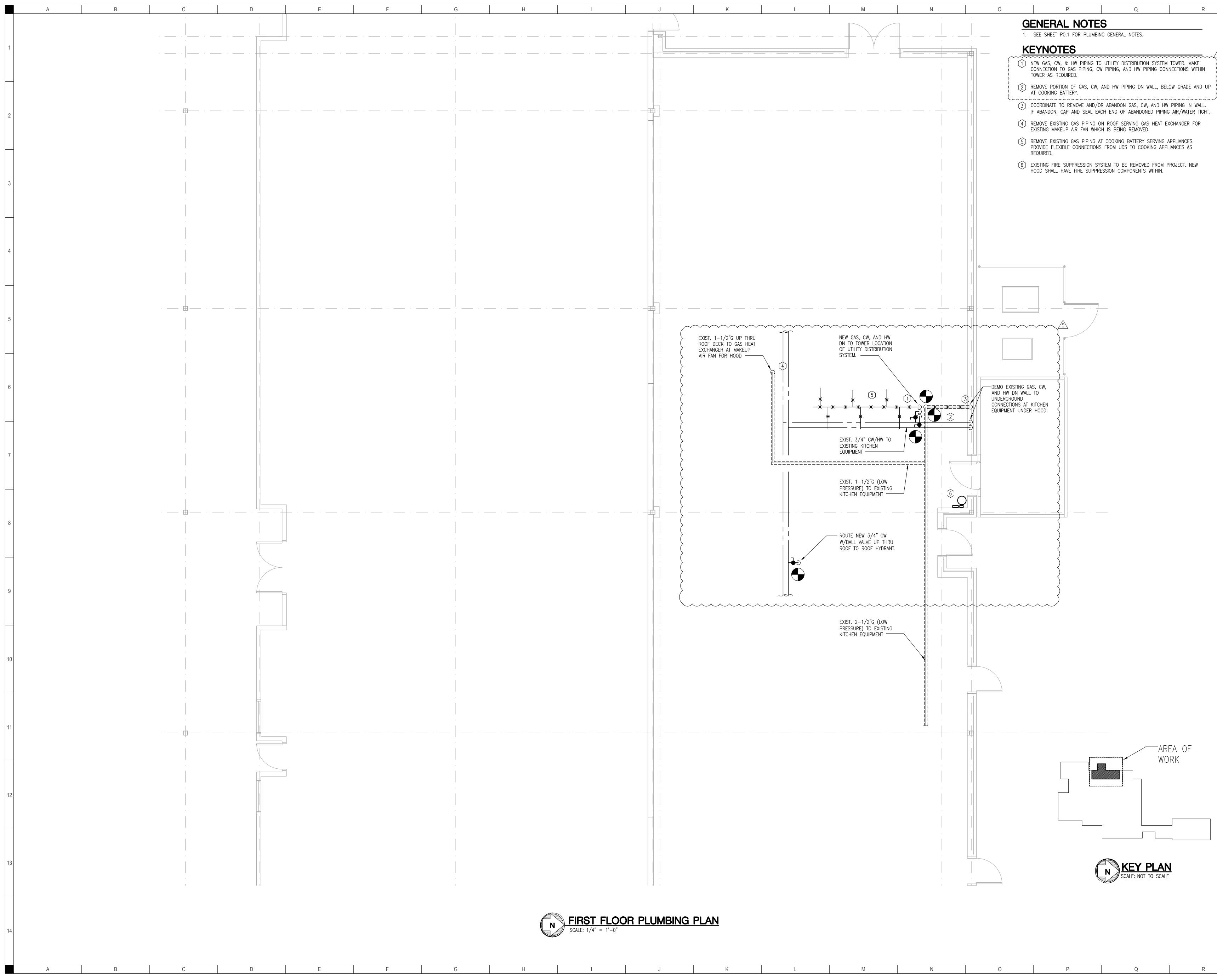
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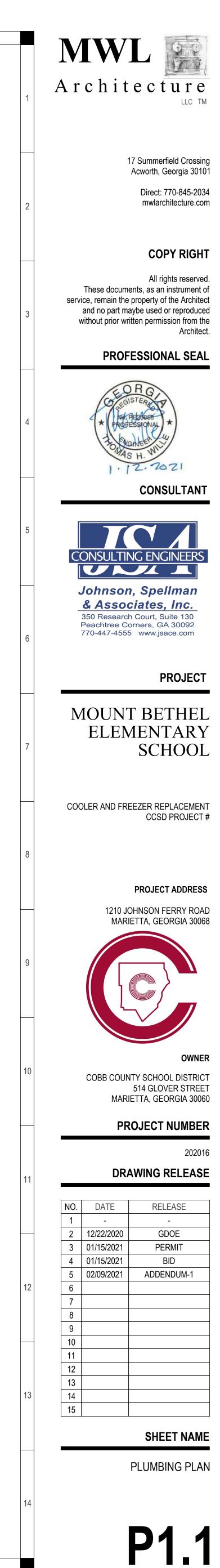
NEW SHEET TO

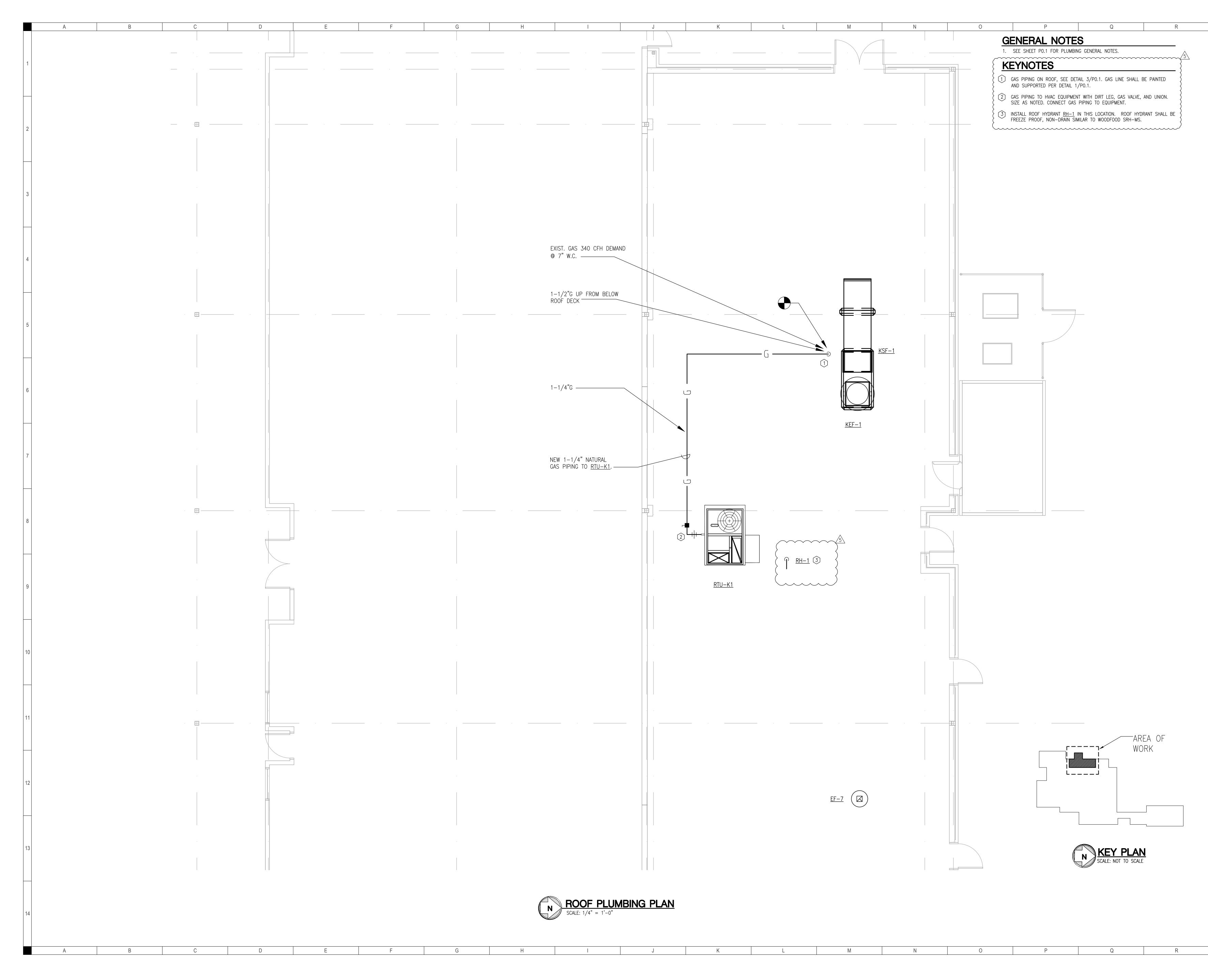
CONSTRUCTION

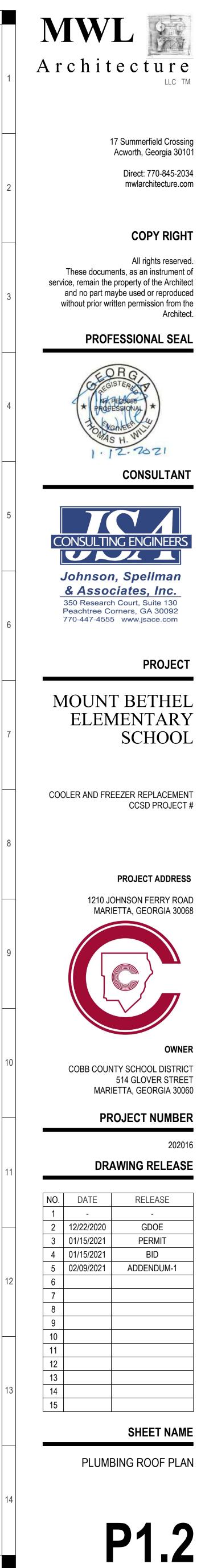
DOCUMENTS

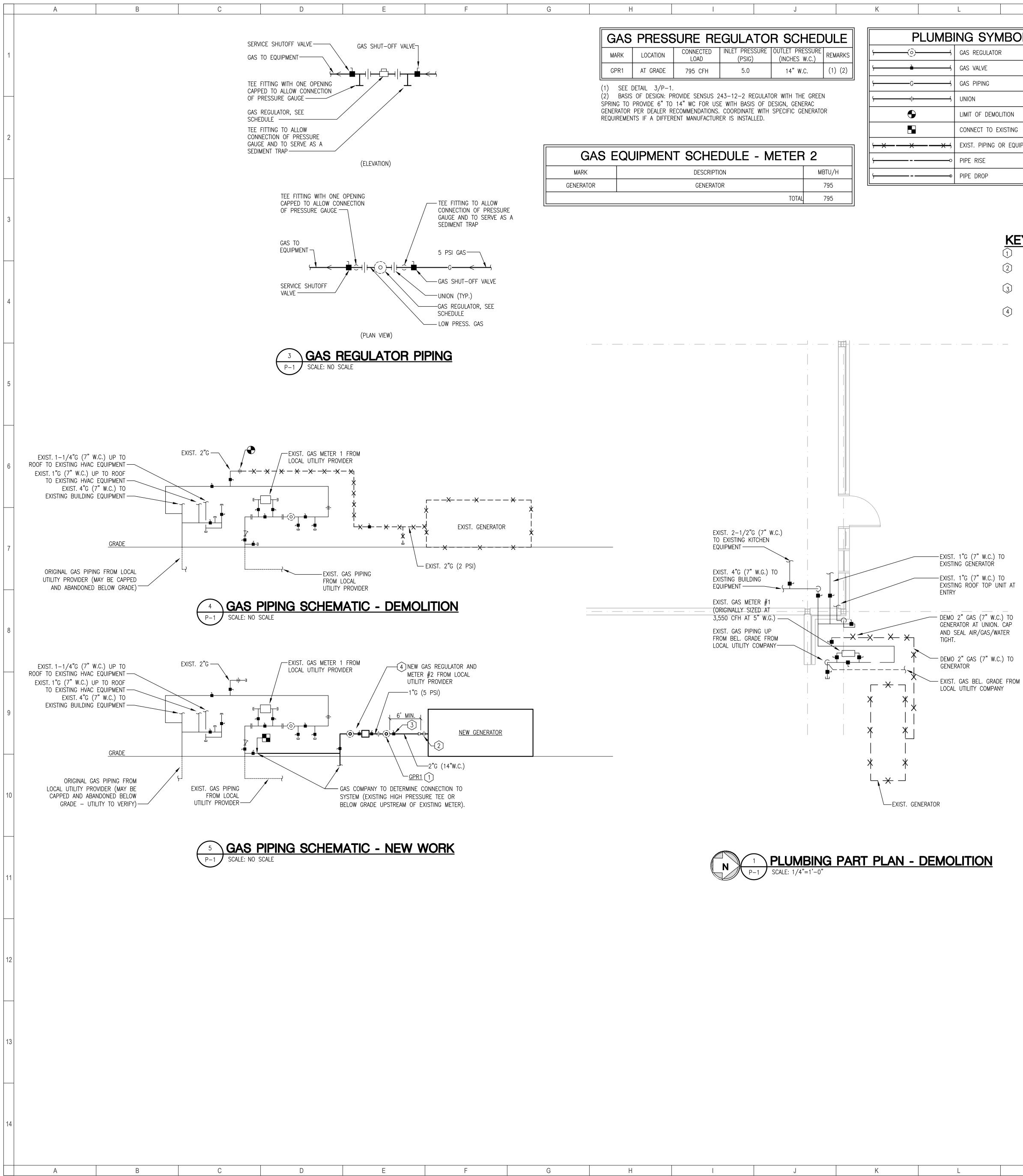
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SYMBOLS GULATOR GAS EQUATOR GAS EVE ABV. ABOVC PING BEL. BELOW TP. TYPICAL GA. GAUGE GA. GAUGE BEL. BELOW TP. TYPICAL GA. GAUGE GA. GAUGE BEL. BELOW TO ENSTING TP. TYPICAL GA. GAUGE D. NORMALY CLOSED N.O. NORMALY OPEN D. NORMALY OPEN MX. MAXIMUM D. ON CENTER MX. MAXIMUM D. ON CENTER MAX. MAXIMUM D. ON CENTER MAX. MAXIMUM D. OR CONNECTION SERVED INSTAL NEW TEES, WYES, OR ELLS MAX. MAXIMUM D. OR CONNECTION SERVED INSTAL NEW TEES, WYES, OR ELLS MAX. MAXIMUM D. OR CONNECTION SERVED INSTAL NEW TEES, WYES, OR ELLS MAX. MAXIMUM D. OR CONNECTION SERVED INSTAL NEW TEES, WYES, OR ELLS MAX. MAXIMUM D. OR CONNECTION SERVED INSTAL NEW TEES, WYES, OR ELLS MAX. MAXIMUM D. OR CONNECTION SERVED INSTAL NEW TEES, WYES, OR ELLS MAX. MAXIMUM D. OR CONNECTION SERVED INSTAL NEW TEES, WYES, OR ELLS MAX. MAXIMUM D. OR CONNECTION SERVED INSTAL NEW TEES, WYES, OR ELLS MAX. MAXIMUM D. OR CONNECTION SERV	R	Q		Р	0	Ν		М	
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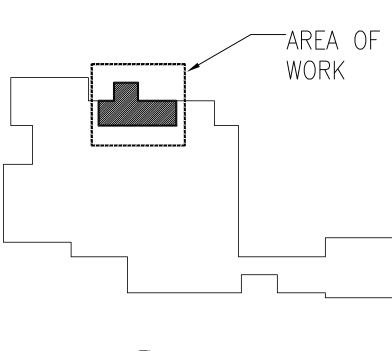
EXIST. 2-1/2"G (7" W.C.) TO EXISTING KITCHEN EQUIPMENT -------EXIST. 1"G (7" W.C.) TO EXISTING GENERATOR EXIST. 4"G (7" W.G.) TO -EXIST. 1"G (7" W.C.) TO EXISTING BUILDING EXISTING ROOF TOP UNIT AT EQUIPMENT ------ENTRY EXIST. GAS METER #1 (ORIGINALLY_SIZED_AT · · ___ · ___ · ___ · ___ · _____ · ____ · ____ · ____ · ___ 3,550 CFH AT 5"W.G.) —— EXIST. GAS PIPING UP FROM BEL. GRADE FROM LOCAL UTILITY COMPANY-----_ _ _ _ _ _ _ NEW GAS CONNECTION ABOVE – EXIST. GAS BEL. GRADE FROM GRADE (OR BELOW GRADE PER LOCAL UTILITY COMPANY GAS COMPANY). NEW GAS REGULATOR AND METER #2 FROM LOCAL UTILITY PROVIDËR -----1"G. (5 PSI) <u>GPR1</u>— 2"G. (14"W.C.) —— 2"G (14"W.C.) 6 FEET LONG MIN FROM REGULATOR <u>GPR1</u>.— <u> PLUMBING PART PLAN - NEW WORK</u> Ν SCALE: 1/4"=1'-0"

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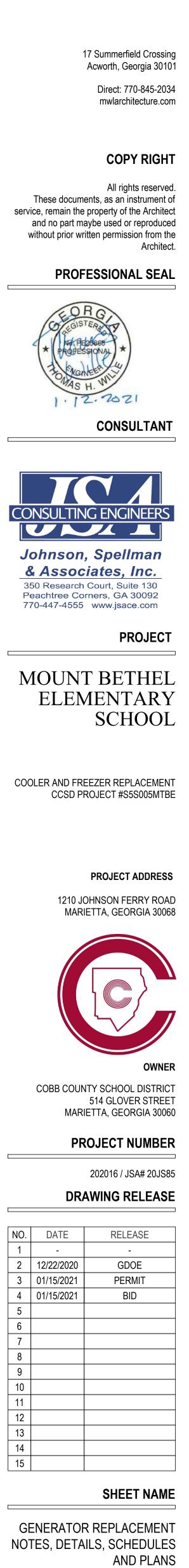
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KEY PLAN SCALE: NOT TO SCALE

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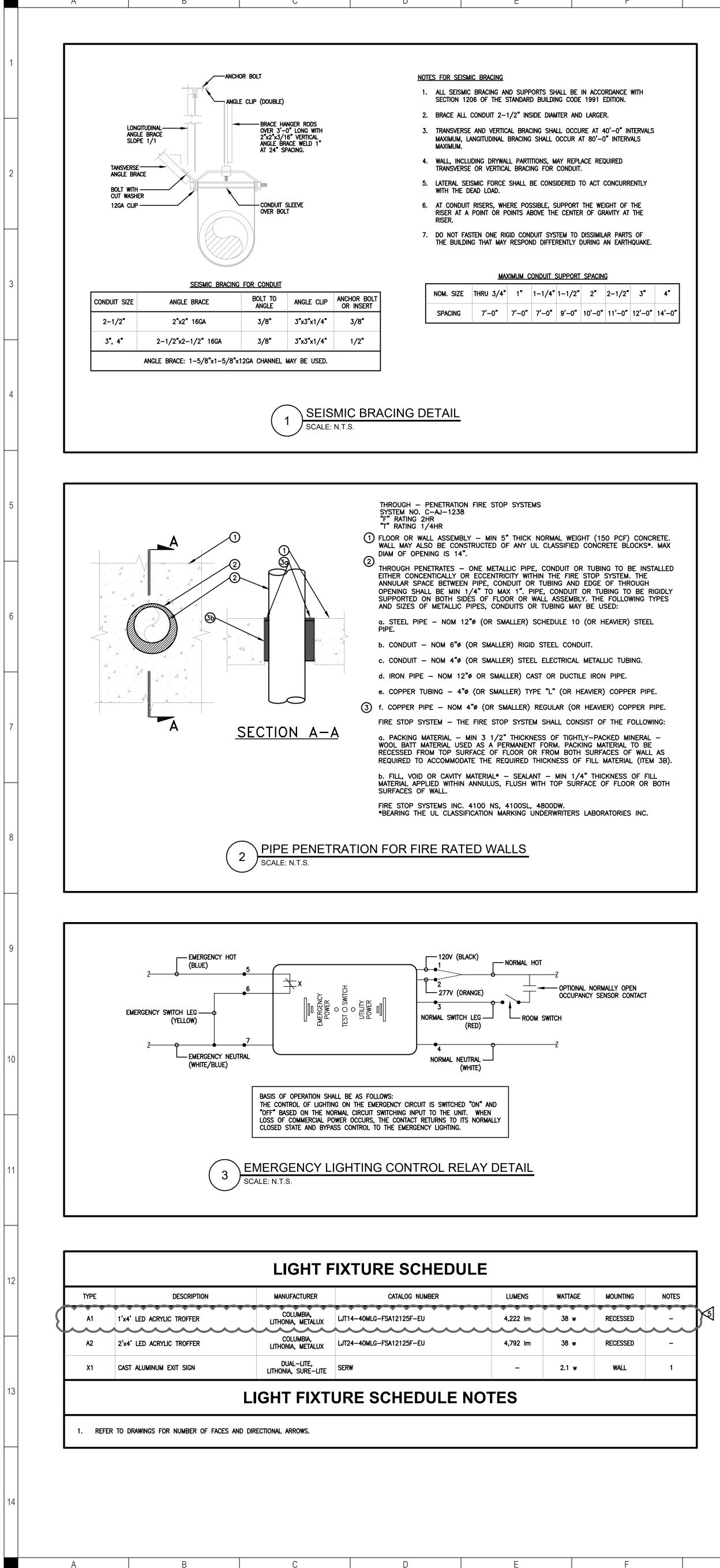
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Architecture





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<u>DRAWINGS</u>

COMPLETION DOCUMENTS

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WITHIN 30 DAYS AFTER THE DATE OF SYSTEM ACCEPTANCE BY THE CONTRACTOR, 3 COPIES OF RECORD AS-BUILT DRAWINGS OF THE ACTUAL INSTALLATION SHALL BE PROVIDED TO THE BUILDING OWNER, INCLUDING THE FOLLOWING:

- A. A SINGLE-LINE DIAGRAM OF THE BUILDING ELECTRICAL DISTRIBUTION SYSTEM.
- FLOOR PLANS INDICATING LOCATION AND AREA SERVED FOR ALL DISTRIBUTION. В. MANUAL

WITHIN 30 DAYS AFTER THE DATE OF SYSTEM ACCEPTANCE, 3 COPIES OF OPERATING AND MAINTENANCE MANUALS SHALL BE PROVIDED TO THE BUILDING OWNER BY THE CONTRACTOR. THE MANUALS SHALL INCLUDE, AT A MINIMUM, THE FOLLOWING:

- SUBMITTAL DATA STATING EQUIPMENT RATING AND SELECTED OPTIONS FOR EACH PIECE OF EQUIPMENT REQUIRING MAINTENANCE.
- OPERATIONS MANUALS AND MAINTENANCE MANUALS FOR EACH PIECE OF EQUIPMENT REQUIRING MAINTENANCE. REQUIRED ROUTINE MAINTENANCE ACTIONS SHALL BE CLEARLY IDENTIFIED.
- NAMES AND ADDRESSES OF AT LEAST ONE QUALIFIED SERVICE AGENCY.
- D. A COMPLETE NARRATIVE OF HOW EACH SYSTEM IS INTENDED TO OPERATE.

KITCHEN EQUIPMENT SCHEDULE

						DOLL
MARK	DESCRIPTION	VOLTAGE/ PHASE	FLA	KVA	DISCONNECT (F)=FUSED	WIRE SIZE
E2A	FREEZER LIGHTS/HEATER	120/1	4.7	0.56	JUNCTION BOX	2#12, 1#12G, 1/2"C
E2B	FREEZER EVAPORATOR COIL	208/1	21.2	4.4	30/2 (WP)	2#10, 1#10G, 3/4"C
E2C	FREEZER CONDENSING UNIT	208/3	34.5	12.41	60/3 (WP)	3#8, 1#10G, 1"C

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- AS REQUIRED BY REMOVALS OF APPURTENANCES. COORDINATE WITH ARCHITECT.
- CONSTRUCTION WITH ARCHITECT. MINIMUM 10 DAYS ADVANCE NOTICE.
- ARCHITECTURAL AND MECHANICAL DRAWINGS FOR DEMOLITION.
- AS BEFORE RENOVATION.
- ALL EXISTING CIRCUITING.

ABBREVIATION	DESC
AFF	ABOVE FINISHED FLOOR
AIC	AMPERE INTERRUPTING CAPACITY
ATS	AUTOMATIC TRANSFER SWITCH
CCSD	COBB COUNTY SCHOOL DISTRICT
GFCI	GROUND FAULT CIRCUIT INTERRUPT TYPE RECEPTACLE
MLO	MAIN LUGS ONLY
NTS	NOT TO SCALE
SPD	SURGE PROTECTION DEVICE
WP	WEATHER PROOF (NEMA "3R") DEVICE

ELECTRICAL FIRE ALARM NOTES

- GEORGIA ACCESSIBILITY CODE • NFPA 72, NATIONAL FIRE ALARM CODE (2012) WITH GEORGIA AMENDMENTS (2014) NFPA 70, NATIONAL ELECTRICAL CODE (2017) • NFPA 101, LIFE SAFETY CODE (2012) WITH GEORGIA AMENDMENTS (2013)
- OTHER APPLICABLE NFPA STANDARDS
- STATES ACCESSIBILITY CODE AND NEFP 72 (2012) EDITION.
- 3. PROVIDE SEAL FOR PENETRATION OF FIRE RATED WALLS BY CONDUIT.
- CANDELA AT ALL LOCATIONS.
- 6. EXTEND EXISTING FIRE ALARM SYSTEM IN ACCORDANCE WITH DRAWINGS AND APPLICABLE CODES. PROVIDE
- AS-BUILT DRAWINGS.
- 7. ALL FIRE ALARM CABLING SHALL BE IN EMT CONDUIT.

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ELECTRICAL DEMOLITION NOTES

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CONTRACTOR SHALL REMOVE AND/OR RELOCATE AS DIRECTED ALL ELECTRICAL APPURTENANCES ASSOCIATED WITH NEW CONSTRUCTION. DIVERT, EXTEND, RE-ROUTE, REPLACE, RECONNECT, OR OTHERWISE MAKE GOOD AND LEAVE IN SAFE WORKING ORDER ALL PORTIONS OF THE EXISTING ELECTRICAL INSTALLATION REQUIRED TO REMAIN IN USE DURING AND/OR AFTER THE COMPLETION OF WORK. THE CONTRACTOR SHALL COORDINATE WITH THE OWNER THE REMOVAL AND DISPOSAL OF ALL EXISTING ELECTRICAL MATERIAL WHICH IS NOT TO BE REUSED ON THE PROJECT. CONTRACTOR SHALL REMOVE AND STORE ANY ELECTRICAL MATERIAL IF SO DIRECTED BY OWNER. PATCH AND PAINT WALLS AND CEILINGS WORK IS TO BE CARRIED OUT WITHOUT UNNECESSARY INTERFERENCE WITH OWNER'S EXISTING FACILITIES AND OPERATIONS. POWER INTERRUPTIONS SHALL BE SCHEDULED WITH OWNER AND SHALL BE TAKEN ONLY DURING THOSE PERIODS WHICH HE HAS APPROVED IN WRITING. COORDINATE EXACT PHASING OF DEMOLITION OF EXISTING ELECTRICAL MATERIAL SHALL BE INCLUDED IN CONTRACTOR'S BID. REFER TO EXISTING WALLS THAT ARE TO BE DEMOLISHED. REMOVE CIRCUITS BACK TO NEAREST DEVICE ON SAME CIRCUIT THAT SHALL REMAIN INTACT OR COMPLETELY BACK TO PANELBOARD. RECONNECT NEW WIRING TO EXISTING DEVICES ON SAME CIRCUIT "DOWNSTREAM" IN ORDER THAT THEY OPERATE IN SAME MANNER ALL EXISTING ELECTRICAL ITEMS ON EXISTING CEILINGS SHALL BE REMOVED, STORED AND RE-INSTALLED ON NEW CEILINGS. ITEMS INCLUDE CLOCKS, CAMERAS, SPEAKERS, AND FIRE ALARM DEVICES. MAINTAIN **ABBREVIATION LEGEND** DESCRIPTION

. FIRE ALARM SYSTEM AND ALL ASSOCIATED OPERATIONS SHALL BE IN ACCORDANCE WITH THE FOLLOWING:

NFPA 90A, STANDARD FOR THE INSTALLATION OF AIR CONDITIONING AND VENTILATION SYSTEMS

2. AUDIBLE/VISUAL SIGNAL APPLIANCES SHALL COMPLY WITH THE REQUIREMENTS OF RULE 120-3-20-.39 OF THE

4. ALL STROBES AND SPEAKER/STROBES HAVE SWITCH SELECTABLE CANDELA (15, 30, 60, 75, AND 110 CANDELA). AT TIME OF INSTALLATION SET ALL STROBES AND HORN/STROBES TO 110 CANDELA UNLESS OTHERWISE NOTED ON THE DRAWINGS BY SUBSCRIPT ADJACENT TO THE DEVICE SYMBOL. STATE ADA CODE REQUIRES A MIN. OF 75

MOUNT ALL STROBES AND SPEAKER/STROBES AT 80 INCHES AFF OR 6 INCHES FROM THE CEILING, WHICH EVER IS

CONDUIT AND WIRING IN ACCORDANCE WITH MANUFACTURER'S APPROVED SHOP DRAWINGS. PROVIDE WRITTEN CERTIFICATION FROM MANUFACTURER'S REPRESENTATIVE THAT THE SYSTEM IS FULLY OPERATIONAL AND HAS BEEN CHECKED OUT THOROUGHLY BY A FACTORY TRAINED REPRESENTATIVE. THE CHECK-OUT PROCEDURES SHALL BE AS RECOMMENDED BY THE MANUFACTURER. FORMAL TRAINING OF THE OWNER OR OWNER'S REPRESENTATIVE SHALL BE PERFORMED AND A LETTER CERTIFYING THAT THIS WAS PERFORMED SHALL BE SUBMITTED WITH THE

	ELECTRICAL LEGEND
	HOMERUN TO PANELBOARD, LETTER INDICATES PANEL DESIGNATION, NUMBER INDICATES CIRCUIT NUMBER, SLASH MARKS INDICATES 2#12,1#12G,1/2"C. (/) INDICATES GREEN GROUND CONDUCTOR UNLESS INDICATED OTHERWISE ON SCHEDULES.
\frown	CONDUIT CONCEALED IN CEILING OR WALL.
	CONDUIT CONCEALED IN SLAB OR BELOW GRADE.
	CIRCUIT BREAKER IN NEMA 1 ENCLOSURE.
Т	DRY TYPE TRANSFORMER.
	PANELBOARD, 277/480V, 3 PHASE, 4 WIRE. NEW OR EXISTING AS INDICATED.
	PANELBOARD, 120/208V, 3 PHASE, 4 WIRE. NEW OR EXISTING AS INDICATED.
F۲	DISCONNECT SWITCH, "F" INDICATES FUSED, "WP" INDICATES WEATHERPROOF NEMA 3R ENCLOSURE.
o	L.E.D. VAPOR-PROOF LIGHT FIXTURE. PROVIDED BY OTHERS, INSTALLED BY ELECTRICAL CONTRACTOR.
0	L.E.D. ACRYLIC TROFFER, TYPE INDICATED.
	L.E.D. ACRYLIC TROFFER, SWITCH EMERGENCY, TYPE INDICATED.
	L.E.D. ACRYLIC TROFFER, UNSWITCHED EMERGENCY, TYPE INDICATED.
₽	20-AMP, 120-VOLT DUPLEX RECEPTACLE. MOUNT AT 18" AFF UNLESS NOTED OTHERWISE.
•	20-AMP, 120-VOLT GFCI TYPE DUPLEX RECEPTACLE. MOUNT AT 18" AFF UNLESS NOTED OTHERWISE. "WINDICATES WEATHERPROOF, PROVIDE TAYMAC ENCLOSURE WITH "IN-USE" COVER.
Q	JUNCTION BOX.
S	TOGGLE SWITCH, "2" INDICATES 2 POLE, "3" INDICATES 3 WAY, "4" INDICATES 4 WAY, "P" INDICATES PILOT LIGHT, "M" INDICATES MANUAL MOTOR CONTROLLER.
S 01	1-POLE WALL SWITCH/OCCUPANCY SENSOR, DUAL TECHNOLOGY, HUBBELL #LHMTD-1-FINISH. APPROVED EQUALS BY GREENGATE AND WATTSTOPPER.
R	EMERGENCY LIGHTING CONTROL RELAY, HUBBELL #UL924EPC1-UNV, REFER TO DETAIL 3/E1.1.
ĒΝ	FIRE ALARM HORN/STROBE UNIT, MATCH EXISTING MANUFACTURER.
F	FIRE ALARM VISUAL STROBE UNIT, MATCH EXISTING MANUFACTURER.
5	SMOKE DETECTOR, MATCH EXISTING MANUFACTURER.
	DUCT DETECTOR WITH SAMPLING TUBE SIZED TO DUCT, MATCH EXISTING MANUFACTURER.

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ELECTRICAL GENERAL NOTES

- THE CONTRACTOR SHALL VISIT THE SITE OF THE PROPOSED PROJECT TO INSPECT THE EXISTING CONDITIONS AND DETERMINE THE SCOPE OF HIS WORK AND THE EXTENT OF DEMOLITION AND RENOVATION WORK. THE SITE INSPECTION SHALL BE MADE PRIOR TO SUBMITTING BID FOR THE PROPOSED PROJECT. NO COMPENSATION WILL BE ALLOWED FOR FAILURE TO INSPECT THE SITE. CONTRACTOR SHALL INFORM ARCHITECT PRIOR TO BIDDING OF DISCREPANCIES WHICH EXIST BETWEEN DRAWINGS AND ACTUAL FIELD CONDITIONS.
- OVERCURRENT PROTECTION, WIRE SIZE AND NUMBER OF CONNECTION POINTS FOR MECHANICAL HVAC EQUIPMENT IS FOR ITEMS AS SPECIFIED. COORDINATE WITH MECHANICAL CONTRACTOR AND MAKE NECESSARY CHANGES PRIOR TO INSTALLATION FOR ACTUAL EQUIPMENT FURNISHED AT NO COST TO OWNER. REFER TO MECHANICAL DRAWINGS FOR EXACT LOCATION OF MECHANICAL EQUIPMENT.
- 3. ALL RECEPTACLES WITHIN (6) FEET OF PLUMBING FIXTURES SHALL BE PROVIDED WITH 5 MILLIAMP GROUND FAULT INTERRUPTERS.
- 4. PROVIDE SEAL FOR PENETRATION OF FIRE RATED WALLS BY CONDUIT.
- 5. ALL WIRING SHALL BE IN METAL CONDUIT. EXCEPT FOR LOW VOLTAGE SYSTEMS IN PLENUM SPACES.
- 6. CONTRACTOR SHALL COORDINATE INSTALLATION OF NEW LIGHTING FIXTURES, RECEPTACLES, PANELBOARDS, ETC. WITH EXISTING STRUCTURE, PIPING, ETC. AND MAKE ADJUSTMENTS AS REQUIRED.
- PROVIDE ARC FLASH LABELING FOR ALL ELECTRICAL EQUIPMENT PER N.E.C. AND N.F.P.A. 70E. SWITCHGEAR MANUFACTURER SHALL PROVIDE COMPLETE ARC FLASH STUDY AND ALL EQUIPMENT LABELING.
- 8. PROVIDE FINISHED COVER PLATES FOR ALL JUNCTION BOXES.
- TERMINATIONS (LUGS, TERMINAL BLOCKS, ETC.) IN CIRCUIT BREAKERS, DISCONNECT SWITCHES, LIGHTING CONTACTORS, RELAYS, PANEL BOARDS, TIME SWITCHES, ETC. SHALL BE RATED FOR 75°C IN TEMPERATURE. IF TERMINATIONS IN EQUIPMENT SUCH AS EXHAUST FANS, WATER HEATERS, AIR CONDITIONING UNITS, ETC. ARE RATED FOR 60°C ONLY, THEN CONDUCTORS MUST BE DE-RATED AND USED IN COMPLIANCE WITH TABLE 310-16 OF CURRENT N.E.C. AND SIZED FOR THE 60°C COLUMN.
- 10. BRANCH CIRCUIT CONDUCTORS SHALL NOT BE SMALLER THAN NO.12 AND WHERE BRANCH CIRCUIT CONDUCTOR RUNS FROM SOURCE (PANEL) TO THE LAST DEVICE ON THE CIRCUIT EXCEEDS 100 FT. IN LENGTH, THE CONDUCTORS SHALL BE NO. 10 MINIMUM AND FOR THE ENTIRE LENGTH OF THE CIRCUIT. FOR RUNS OVER 200 FT. IN LENGTH THE CONDUCTOR SHALL BE NO. 8 MINIMUM AND FOR THE ENTIRE LENGTH OF THE CIRCUIT. THE ABOVE APPLIES TO 120 VOLT CIRCUITS ONLY.
- . CONTRACTOR SHALL ASSURE THAT ALL WORK CLEARANCES PER THE N.E.C ARE MET OR EXCEEDED WITH EQUIPMENT FURNISHED PRIOR TO ROUGH-IN. NOTIFY ARCHITECT OF ANY DISCREPANCIES WITH THE ELECTRICAL PLANS.
- 12. BRANCH CIRCUITING WIRES SHALL NOT PASS THROUGH ELECTRICAL DEVICES (PANELS, DISCONNECT SWITCHES, CONTACTORS, ETC.) OTHER THAN THOSE DESIGNED FOR THE USE AS A JUNCTION BOX.
- 13. WIRE NUTS ARE NOT PERMITTED WITH IN THE ELECTRICAL PANEL OR ELECTRICAL DEVICES. ALL WIRING SHALL BE PULLED AT REQUIRED LENGTHS WITH OUT SPLICING WITHIN ELECTRICAL PANELS AND OTHER ELECTRICAL DEVICES.
- 14. IN REFRIGERATOR AND FREEZER INSTALL LIGHTS, GLOBES AND GUARD FURNISHED WITH EQUIPMENT. MAKE FULL CONNECTION WITH RIGID CONDUIT CEILING LIGHTS TO LIGHT AT DOOR AND CONNECT TO ANTI-SWEAT, DOOR HEATERS AND LIGHT SWITCHES. IN FREEZER, CONNECT TO HEATER AT RELIEF VENT AND LAMP FIXTURES. FROM LIGHTS, EXTEND RIGID CONDUIT UP THROUGH ROOF OF PREFAB AND INSTALL MANUFACTURER'S WIRING DIAGRAMS FOR EXACT ARRANGEMENT OF DEVICES AND MAKE ALL CONNECTIONS.
- 15. ALL CONDUIT WITHIN FREEZER/COOLERS SHALL BE "SEAL-TIGHT" WITH ALL CONNECTIONS SEALED TO PREVENT AIR ENTRY INTO CONDUITS.
- 16. COORDINATE EXACT ELECTRICAL REQUIREMENTS WITH APPROVED COOLER/FREEZER SHOP DRAWINGS PRIOR TO ROUGH-IN.

JURISDICTION (AHJ) INCLUDING THE BUILDING AND FIRE DEPARTMENTS.

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- 17. PROVIDE UPDATED TYPED PANELBOARD DIRECTORIES THAT CHANGE.
- 18. VERIFY EXACT VOLTAGE AND PHASE OF ALL COOLER/FREEZER EQUIPMENT PRIOR TO ROUGH-IN. 19. NO CONDUITS SHALL PENETRATE THE TOP OF EITHER ATS.

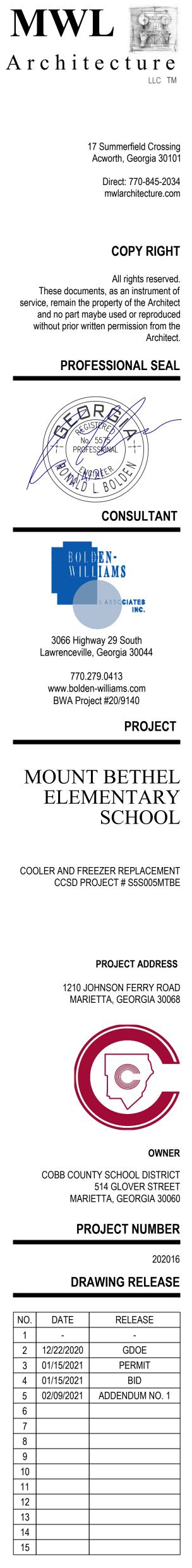
20. NEW GENERATOR TO BE PROVIDED BY THE OWNER AND INSTALLED BY CONTRACTOR. THE CONTRACTOR

SHALL PROVIDE ALL LABOR, MATERIAL AND EQUIPMENT TO TAKE DELIVERY OF THE GENERATOR FROM

THE TRUCK BED, PLACE THE GENERATOR ON EQUIPMENT PAD, MAKE ALL CONNECTIONS TO THE

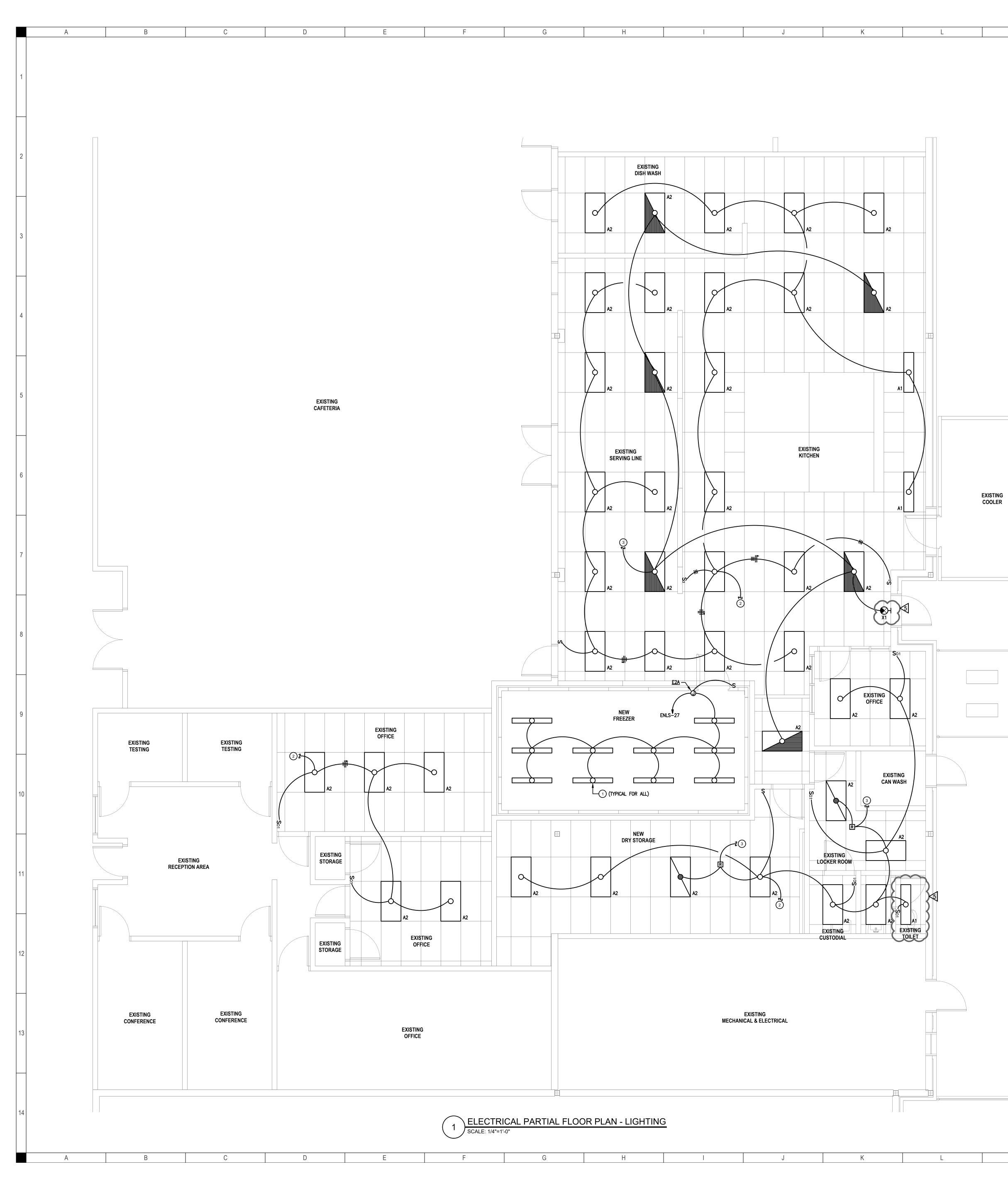
GENERATOR, INCLUDING ELECTRICAL AND GAS, COORDINATE START UP AND CERTIFICATION WITH THE

MANUFACTURER. AND COMPLETE ALL INSPECTIONS AND CERTIFICATIONS WITH THE AUTHORITY HAVING



SHEET NAME

ELECTRICAL LEGEND, NOTES, SCHEDULES AND DETAILS



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			NOT (THIS SHEE		
		COORDINATE WIR MANUFACTURER'S			
			ISTING 277-VOLT EMERGENCY LIGHTING		

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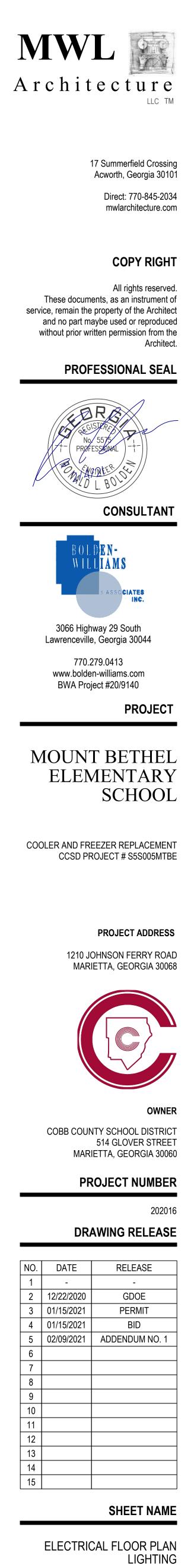
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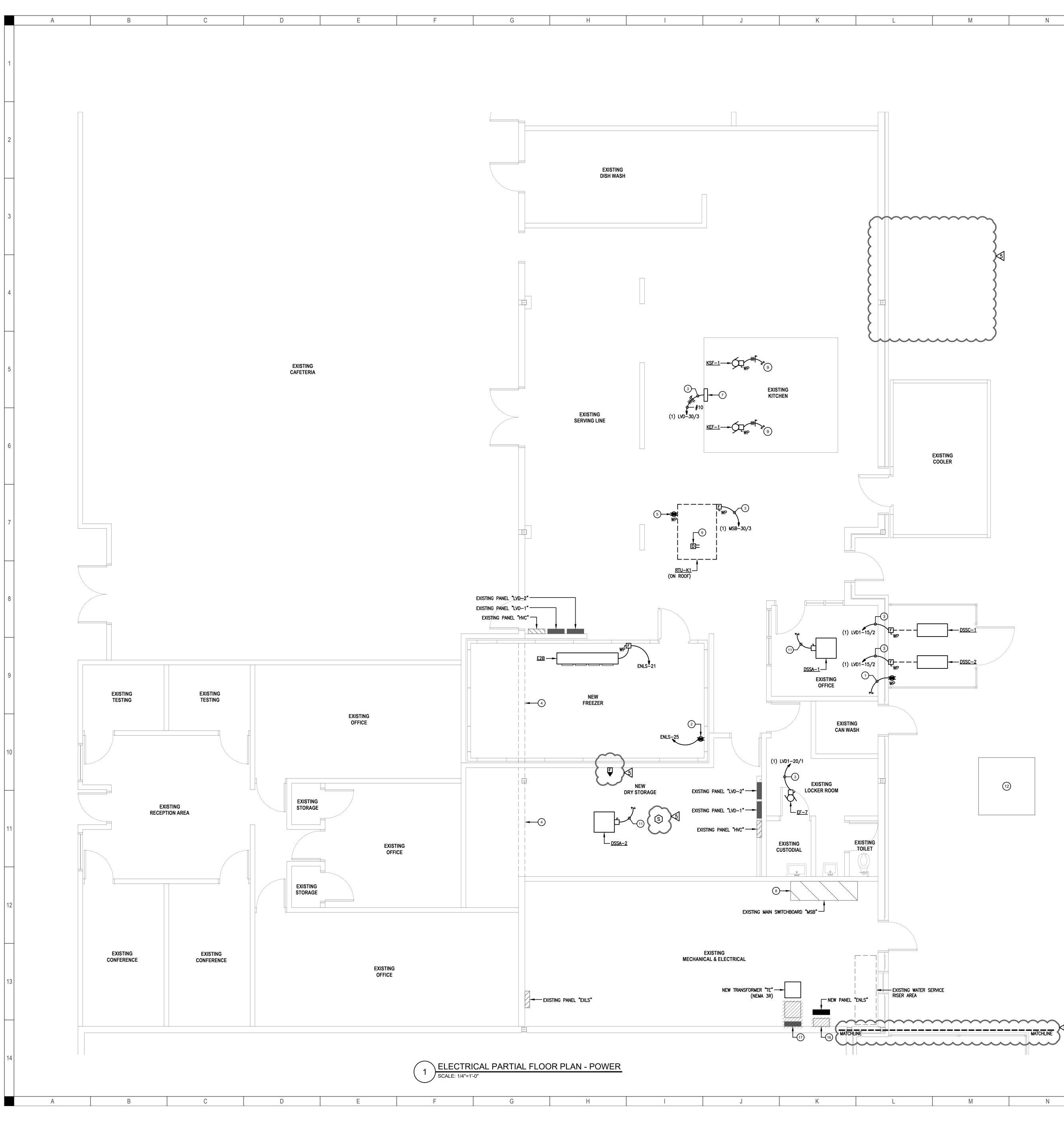
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E2.1



	NOTES (THIS SHEET ONLY)
1	CIRCUIT TO EXISTING 120-VOLT, NON-COMPUTER RECEPTACLE CIRCUIT.
2	HEAT TRACE CIRCUIT. PROVIDE AND INSTALL HEAT TAPE. HEAT TAPE SHALL BE U.L. LISTED, 5 OR 8 WATTS PER FOOT COVERED WITH FEB TEFLON JACKET. FURNISH AND INSTALL JUNCTION BOX TERMINATION KIT AND THERMOSTAT FOR SURFACE MOUNTING TO CYCLE HEAT TAPE OFF ABOVE 40° AMBIENT. HEAT TAPE SHALL BE RAYCHEM XL—TRACE, CHROMALOX OR EQUIVALENT. PROVIDE AROUND ALL CONDENSATE PIPING WITHIN THE FREEZER SPACE.
3	HOMERUN TO EXISTING PANEL. PROVIDE NEW CIRCUIT BREAKER, QUANTITY AND SIZE AS INDICATED. PROVIDE UPDATED TYPED PANELBOARD DIRECTORY.
4	RELOCATE EXISTING WIRING DEVICES THIS WALL. EXTEND AND RECONNECT EXISTING CIRCUITING.
5	GFCI RECEPTACLE ON ROOF IN WEATHERPROOF ENCLOSURE WITH "IN-USE" COVER. CONNECT DOWN TO NEAREST 120-VOLT GENERAL RECEPTACLE CIRCUIT.
6	PROVIDE AND WIRE NEW DUCT DETECTOR. EXTEND EXISTING FIRE ALARM PANEL AND UPDATE PROGRAMMING. MECHANICAL CONTRACTOR TO INSTALL UNIT.
7	208 VOLT UDS SYSTEM, VERIFY EXACT LOCATION.
8	PROVIDE NEW CIRCUIT BREAKERS AS FOLLOWS FOR MAIN SWITCHBOARD. MATCH EXISTING A.I.C. RATINGS.
	• 30/3 – RTU–K1
	• 40/3 – ATS#1

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- 70/3 ATS#2
- (9) CONNECT TO EXISTING CIRCUIT MADE AVAILABLE DURING DEMOLITION OF HOOD.

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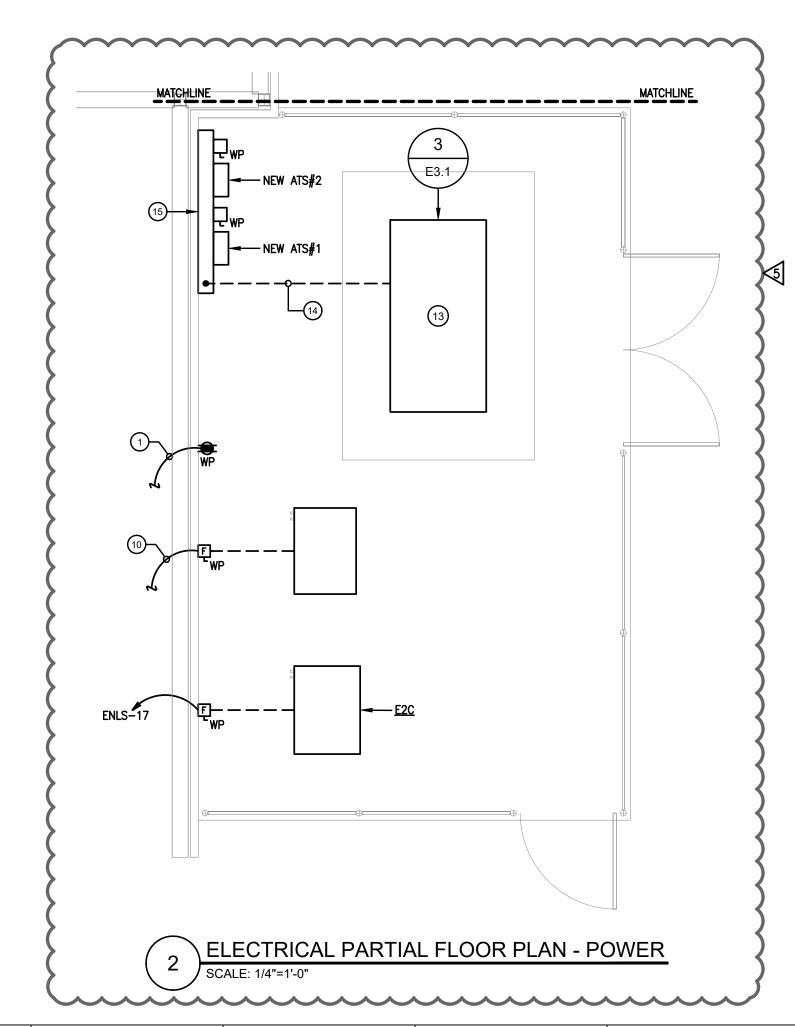
- 10 extend and reconnect existing cooler condensing unit from roof to this location. Provide New disconnect.
- (1) CONNECT TO ASSOCIATED EXTERIOR UNIT, REFER TO MANUFACTURER'S APPROVED SHOP DRAWINGS AND WIRING DIAGRAMS PRIOR TO ROUGH-IN.
- (12) EXISTING POWER COMPANY PAD MOUNTED TRANSFORMER TO REMAIN.
- (13) REMOVE EXISTING GENERATOR AND PAD. PROVIDE NEW GENERATOR AND PAD AS INDICATED. REFER TO RISER DIAGRAM.
- (14) NEW UNDERGROUND SERVICE. REFER TO RISER DIAGRAM.
- (15) NEW NEMA 3R WIREWAY. REFER TO RISER DIAGRAM.
- (16) Existing ats to be removed, refer to riser diagram.
- (17) EXISTING PANEL "EM" AND TRANSFORMER TO BE REMOVED, REFER TO RISER DIAGRAM.

HVAC/ELECTRICAL SCHEDULE								
MARK	VOLT/PHASE	FLA	KVA	MCA	MOCP	DISC. SIZE (F) = FUSED	WIRE SIZE	NOTES
DSSA-1	208/1	_	_	-	-	30/2	-	3
DSSA-2	208/1	_	_	-	-	30/2	-	3
DSSC-1	208/1	7.6	1.6	9.0	15/2	(F) 30/2/15	2#12, 1#12G, 1/2"C	-
DSSC-2	208/1	7.6	1.6	9.0	15/2	(F) 30/2/15	2#12, 1#12G, 1/2"C	-
KEF-1	480/3	3.4	2.82	-	20/3	30/3	3#12, 1#12G, 1/2"C	-
KSF-1	480/3	4.8	3.98	-	20/3	30/3	3#12, 1#12G, 1/2"C	-
rtu-k1	480/3	22.9	19.0	27.0	30/3	(F) 30/3/30	3#10, 1#10G, 3/4"C	4

- ALL DISCONNECT SWITCHES SHALL BE HEAVY DUTY, 600 VOLT, WITH VARIABLE COVER INTERLOCK, NEMA 1 FOR INDOOR USE AND NEMA 3R FOR OUTDOOR USE.
- OVERCURRENT PROTECTION, WIRE SIZE AND NUMBER OF CONNECTION POINTS FOR MECHANICAL HVAC EQUIPMENT IS FOR ITEMS AS SPECIFIED. COORDINATE WITH MECHANICAL CONTRACTOR AND MAKE NECESSARY CHANGES PRIOR TO INSTALLATION FOR ACTUAL EQUIPMENT FURNISHED AT NO COST TO OWNER. REFER TO MECHANICAL DRAWINGS FOR EXACT LOCATIONS OF ALL MECHANICAL EQUIPMENT.
- 3. UNIT FED FROM OUTDOOR UNIT, SEE MANUFACTURER'S WIRING DIAGRAM. 4. PROVIDE DUCT MOUNTED SMOKE DETECTOR.

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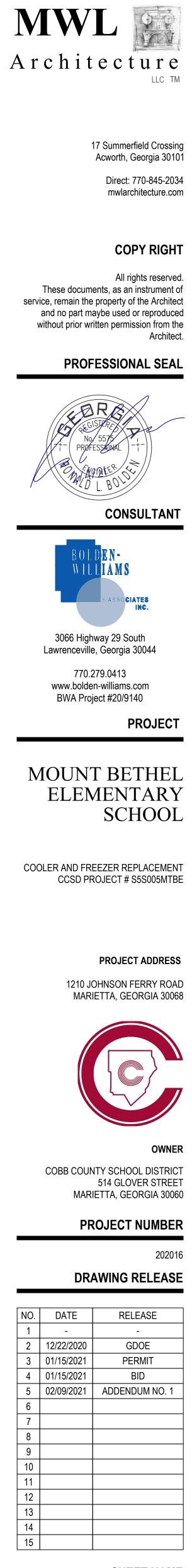
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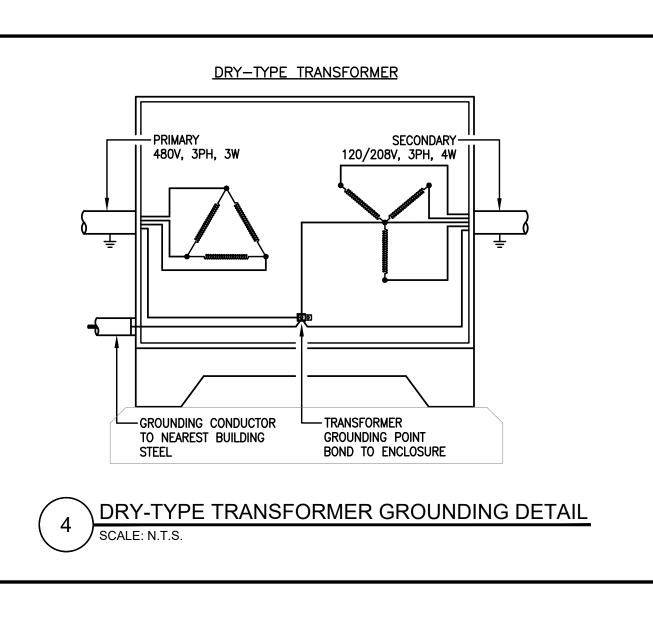
ELECTRICAL FLOOR PLAN POWER **E2.2**

SERVICE	WATTS	NOTES	CKT NO.	20	ABC	70	CKT NO.	NOTES	WATTS	SERVICE
EXISTING COOLER	-	1	1 3 5				2 4 6		-	SURGE PROTECTION DEVICE
GENERATOR HEATER	900	_	7		• (8	-	-	EXISTING INTERCOM
GENERATOR CHARGER	500	-	9		• •	\frown	10	-	-	EXISTING FIRE ALARM
EXISTING COOLER FAN	-	1	11				12	-	-	EXISTING CLOCKS
EXISTING COOLER LIGHTS AND HEATER	_	1	13	60	• • •		14	-	-	EXISTING
			15	-	•		16	-	-	EXISTING
FREEZER CONDENSING UNIT "E2C"	12,410	-	17				18	-	-	EXISTING WATER HEATER
			19	30	• • •		20	-	-	EXISTING TELEPHONE
FREEZER EVAPORATOR COIL "E2B"	4,400	-	21	-			22	-	-	EXISTING
			23				24	-	-	SPARE
HEAT TRACE	300	-	25		• •		26	-	-	SPARE
FREEZER LIGHTS AND HEATER	560	-	27		• • •		28	-	-	SPARE
SPARE	-	-	29				30	-	-	SPACE
SPARE	-	-	31		• (\frown	32	-	-	SPACE
SPARE	-	-	33	-	++-		34	-	-	SPACE
SPACE	-	-	35	-			36	-	-	SPACE
SPACE	-	-	37	$\left - \right $	• (38	-	-	SPACE
SPACE	-	-	39	\vdash	• •		40	-	-	SPACE
SPACE	-	-	41				42	-	-	SPACE
NEW PANEL SCHEDU SERVICE: 120/208 VOLT, 3 PHAS	SE, 4 WIRI	_		CONN	ECTED	LOAD				<u>General Notes:</u> — provide separate ground bus. — provide drip shield on top
MAINS: 225 AMP WITH 150/3 M.C	з м.с.в. 🧃 –							NOTES:		
BRANCHES: 20/1 EXCEPT AS NO	NOTED							1. EXISTING CIRCUIT CUT-OVER TO NE PANEL. EXTEND AND RECONNECT		

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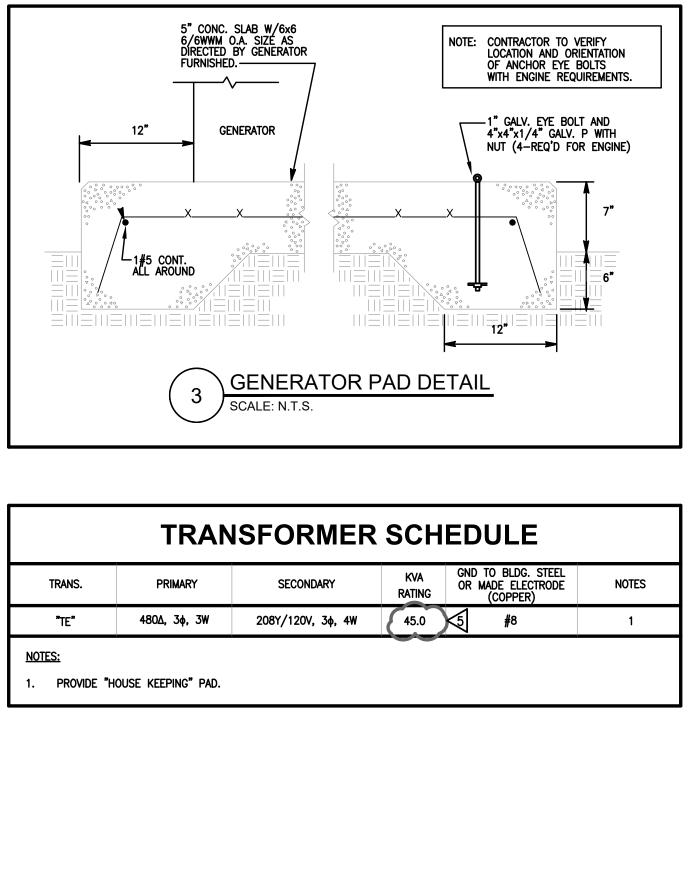
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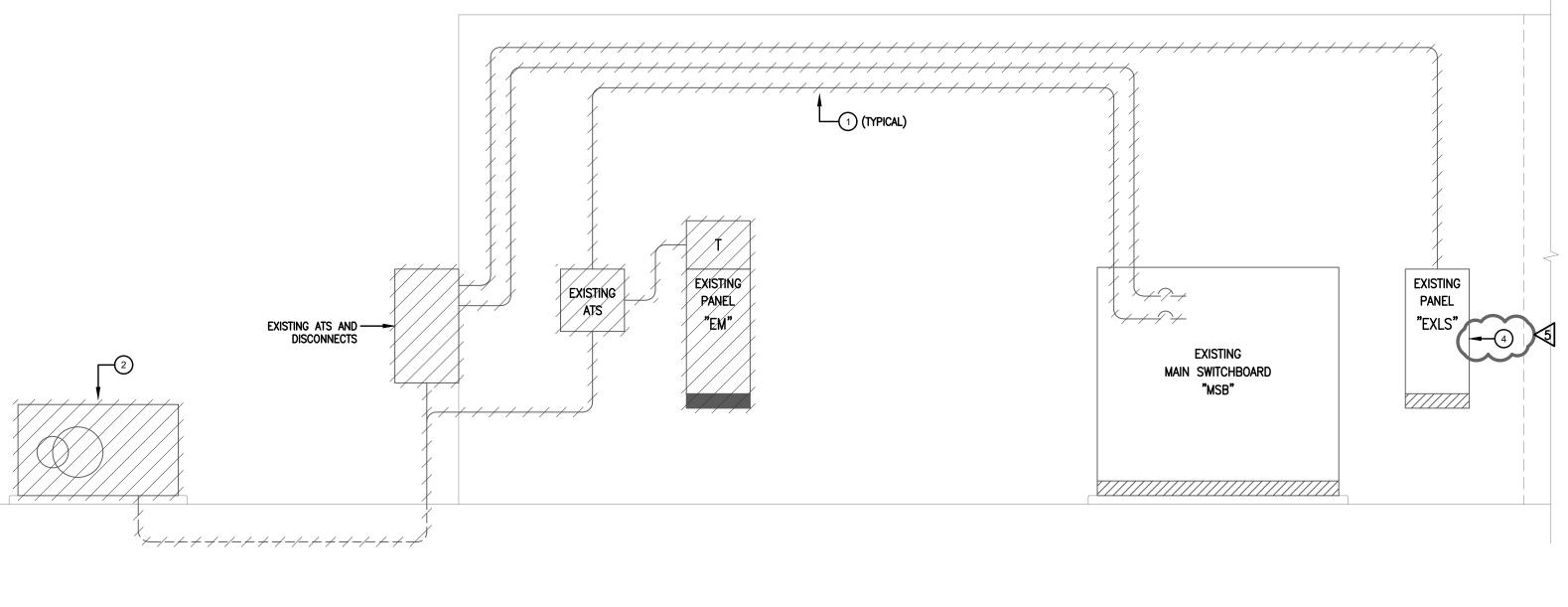


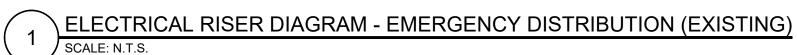
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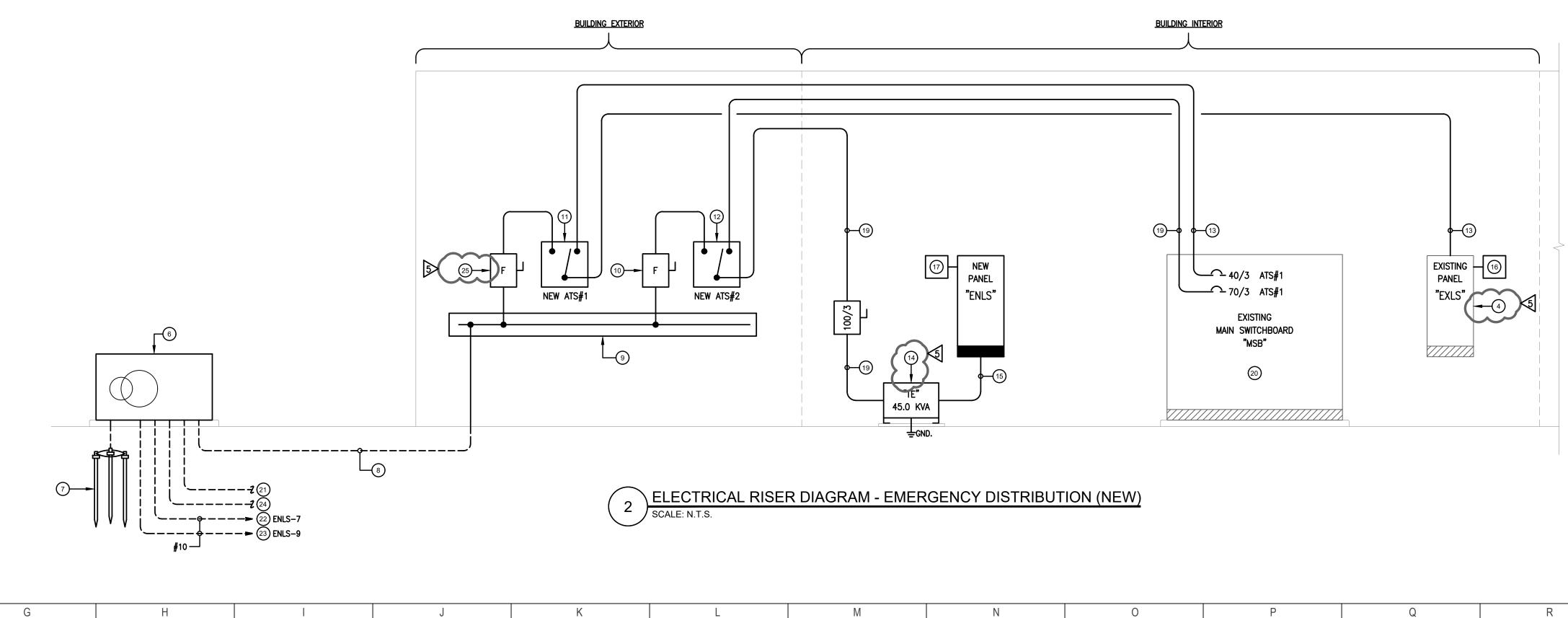
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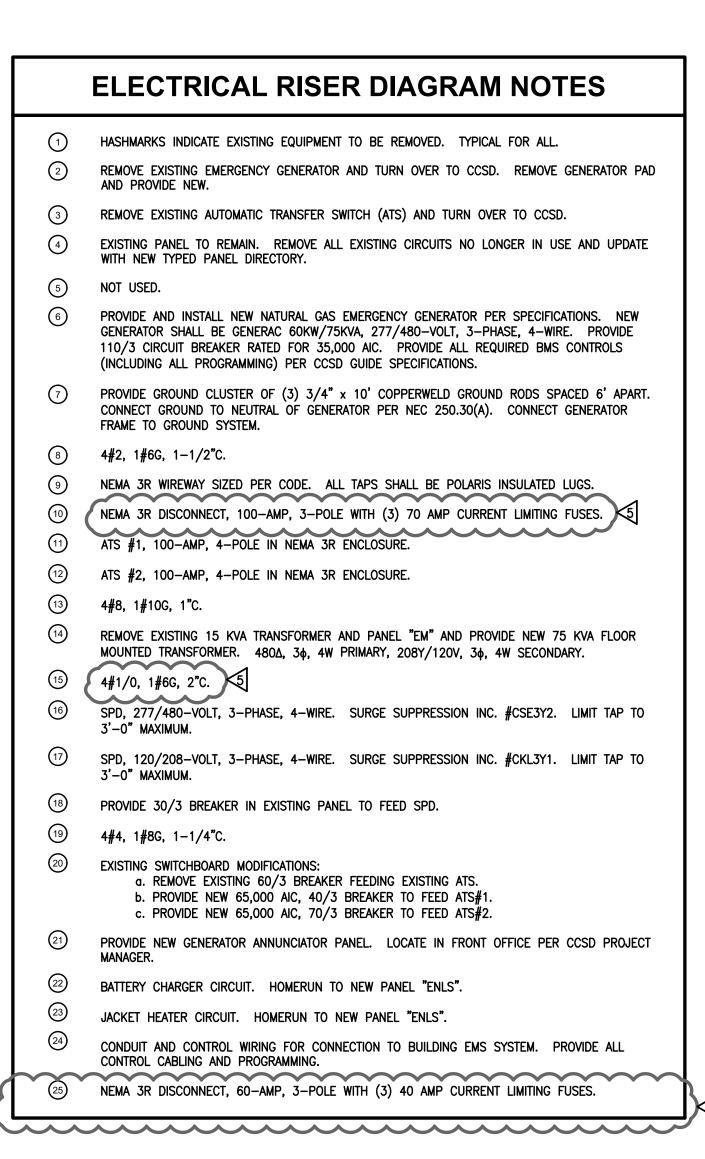
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TRANSFORMER							
TRANS.	PRIMARY	SECONDARY					
" TE"	480∆, 3φ, 3W	208Y/120V, 3ф, 4W					
<u>Notes:</u> 1. Provide "House Keeping" pad.							







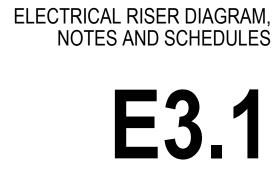


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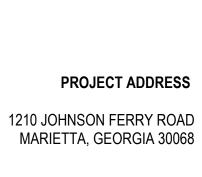
NO.	DATE	RELEASE
1	-	-
2	12/22/2020	GDOE
3	01/15/2021	PERMIT
4	01/15/2021	BID
5	02/09/2021	ADDENDUM NO. 1
6		
7		
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12		
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COBB COUNTY SCHOOL DISTRICT 514 GLOVER STREET MARIETTA, GEORGIA 30060 **PROJECT NUMBER**

DRAWING RELEASE

OWNER

202016





MOUNT BETHEL

COOLER AND FREEZER REPLACEMENT

CCSD PROJECT # S5S005MTBE

ELEMENTARY

SCHOOL

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