

GROVE CREEK WPCP

CITY OF COMMERCE, GA
GMC PROJECT # CATL230033



CITY OF COMMERCE, GA



LOCATION MAP



MARCH 2025

BID SET



Georgia One-Call Center
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Call at Least Two Working Days
Before You Dig
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CLIENT PROJECT TEAM

DR. J. CLARK HILL, III	MAYOR
KEITH BURCHETT	MAYOR PRO-TEM
MATTHEW HAILEY	CITY MANAGER
JOSH ALLISON	WATER & SEWER SUPERINTENDENT
TADD EDMONDSON	WASTEWATER SUPERINTENDENT

DESIGN PROJECT TEAM

GOODWYN MILLS CAWOOD, LLC	CIVIL, PROCESS, ARCHITECTURAL
BFIELD ENGINEERING	ELECTRICAL, MECHANICAL, PLUMBING
DAY STRUCTURES	STRUCTURAL

I CERTIFY THAT I HAVE BEEN IN RESPONSIBLE CHARGE OF THE DESIGN OF THIS PROJECT IN ACCORDANCE WITH THE RULES OF THE GEORGIA STATE BOARD OF REGISTRATION FOR PROFESSIONAL ENGINEERS AND LAND SURVEYORS. I FURTHER CERTIFY, TO THE BEST OF MY KNOWLEDGE AND BELIEF, THAT THESE PLANS AND SPECIFICATION WERE PREPARED IN ACCORDANCE WITH CURRENT STANDARD ENGINEERING PRACTICES AND ACCURATELY REFLECT THE DESIGN DEVELOPMENT REPORT (DDR) PREVIOUSLY REVIEWED AND CONCURRED IN BY EPD. I FURTHER CERTIFY THAT THE SYSTEM AS DESIGNED CAN REASONABLY BE EXPECTED TO CONSISTENTLY MEET ALL CURRENTLY APPLICABLE PERMIT LIMITS, CONDITIONS, AND REGULATORY REQUIREMENTS, PROVIDED THE FACILITY IS CONSTRUCTED AS DESIGNED AND PROPERLY OPERATED AND MAINTAINED.

ENGINEER'S SIGNATURE *Graham S. Sizemore*

COMMERCE 2.0 MGD
GROVE CREEK WPCP
COMMERCE, GA

CATL230033

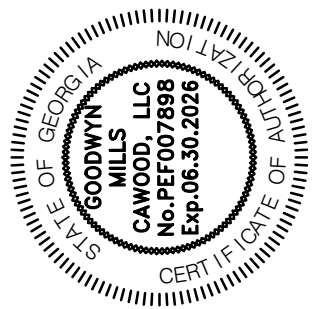


TITLE SHEET

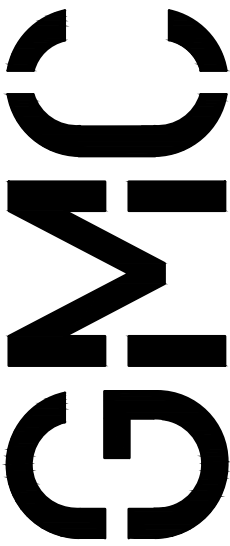
G-001

ISSUE	DATE
30% Submittal	05.30.2024
60% Submittal	08.29.2024
90% Submittal	11.27.2024
Bid Set	03.19.2025

Project Manager:	CW
Engineer:	GS
Designer:	GS
Drawn By:	



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Bid Set	03.19.2025

Project Manager:	CW
Engineer:	GS
Designer:	GS
Drawn By:	

COMMON ABBREVIATIONS											
A	AIR	DISTR	DISTRIBUTION	HP	HORSEPOWER	OD	OUTSIDE DIAMETER	RR	RAILROAD	VERT	VERTICAL
AB	ANCHOR BOLT	DL	DEAD LOAD	HR	HOUR	OF	OUTSIDE FACE OR OVERFLOW	RTN	RETURN	VP	VENT PIPE
AC	AIR CONDITIONING	DMJ	DUCTILE MECHANICAL JOINT	HS	HIGH STRENGTH	OPNG	OPENING	SALV	SALVAGE	VTR	VENT THROUGH ROOF
ACP	ASPHALTIC CONCRETE PAVING	DN	DOWN	HVAC	HEATING, VENTILATION, AIR CONDITIONING	OPP	OPPOSITE	SCFM	STANDARD CUBIC FEET PER MINUTE	W/	WITH
ADDL	ADDITIONAL	DWG	DRAWING	HW	HOT WATER	OPT	OPTIONAL	SCH	SCHEDULE	W/O	WITHOUT
ADDM	ADDENDUM	EA	EACH	HWL	HIGH WATER LEVEL	PC	POINT OF CURVE OF PORTLAND CEMENT	SCN	SCREENINGS	WC	WATER CLOSET
ADJ	ADJUSTABLE	ECC	ECCENTRIC	HWY	HIGHWAY	P&C	PIN AND CAP	SDR	STANDARD DIMENSION RATIO	WCO	WALL CLEANOUT
AFF	ABOVE FINISHED FLOOR	EF	EACH FACE OR ELECTRICAL FAN	HYD	HYDRANT	PCO	PRESSURE CLEAN OUT	SECT	SECTION	WD	WIDTH OR WOOD
AFS	AIR FLOW SWITCH	EJ	EXPANSION JOINT	ID	INSIDE DIAMETER	PCP	PROGRESSIVE CAVITY PUMP	SHLDR	SHOULDER	WDW	WINDOW
AHU	AIR HANDLING UNIT	EL	ELEVATION	IF	INSIDE FACE	PCR	POINT OF CURVE RETURN	SHT	SHEET	WF	WIDE FLANGE
AL	ALUMINUM	ELEC	ELECTRICAL	INCL	INCLUDED	PE	PLAIN END	SIM	SIMILAR	WH	WALL HYDRANT
ALT	ALTERNATE	ENGR	ENGINEER	INCR	INCREASER	PERM	PERMANENT	SOTE	STANDARD OXYGEN TRANSFER EFFICIENCY	WL	WIND LOAD
APPROX	APPROXIMATE	EOA	EDGE OF ASPHALT	INF	INFLUENT	PERP	PERPENDICULAR	SP	SPACE (ING)	WP	WEIR PLATE
ARCH	ARCHITECT(URAL)	EOP	EDGE OF PAVEMENT	INSTL	INSTALLATION	PI	POINT OF INTERSECTION	SPEC	SPECIFICATION	WS	WETTED SURFACE
ARV	AIR RELIEF VALVE	EQ	EQUAL	INSTR	INSTRUMENT	PL	PLATE OR PROPERTY LINE	SQ	SQUARE	WT	WEIGHT
ASME	AMERICAN SOCIETY MECHANICAL ENGINEERS	EQUIP	EQUIPMENT	INSUL	INSULATION	PLBG	PLUMBING	SQ FT	SQUARE FOOT	WWF	WELDED WIRE FABRIC
ASPH	ASPHALT	EQUIV	EQUIVALENT	INV	INVERT	PLYWD	PLYWOOD	SQ IN	SQUARE INCH	WWTP	WASTEWATER TREATMENT PLANT
ASSY	ASSEMBLY	ESMT	EASEMENT	INT	INTERIOR	PNT	PAINT	SQ YD	SQUARE YARD	X SECT	CROSS SECTION
ASTM	AMERICAN SOCIETY FOR TESTING AND MATERIALS	EST	ESTIMATE	INV EL	INVERT ELEVATION	POC	POINT ON VERTICAL CURVE	SRT	SOLIDS RETENTION TIME	XMR	TRANSFORMER
ATM	ATMOSPHERE	EUH	ELECTRIC UNIT HEATER	ISA	INSTRUMENT SOCIETY OF AMERICA	POLY	POLYETHYLENE	SST	STAINLESS STEEL	YCO	YARD CLEANOUT
ATS	AUTOMATIC TRANSFER SWITCH	EW	EACH WAY	JST	JOIST	PPM	PARTS PER MILLION	SST BT	STAINLESS STEEL BOLT	YH	YARD HYDRANT
AUTO	AUTOMATIC	EWS	EQUIPMENT WATER STATION	JTS	JOINTS	PREFAB	PREFABRICATED	ST	STREET		
AVS	AUTOMATIC VALVE STATION	EXP JT	EXPANSION JOINT	KO	KNOCKOUT	PREFIN	PREFINISHED	STA	STATION		
AWG	AMERICAN WIRE GAGE	EXST	EXISTING	KWY	KEYWAY	PRELIM	PRELIMINARY	STD	STANDARD		
BE	BELL END	EXST GR	EXISTING GRADE	L	LEFT OR LITER	PREP	PREPARATION	STL	STEEL		
BF	BOTTOM FACE	EXT	EXTERIOR	LAB	LABORATORY	PROJ	PROJECT	STL JST	STEEL JOIST		
BFD	BUTTERFLY DAMPER	F/F	FACE TO FACE	LAV	LAVATORY	PROP	PROPERTY	STL PL	STEEL PLATE		
BFV	BUTTERFLY VALVE	FA	FOUL AIR	LB(S)	POUND(S)	PRS	PRESSURE REDUCING STATION	STRUCT	STRUCTURAL		
BLDG	BUILDING	FAD	FOUL AIR DUCT	LEL	LOW EXPLOSIVE LIMIT	PRV	PRESS. REDUCING VALVE OR PRESS. RELIEF VALVE	SV	SOLENOID VALVE		
BLK	BLOCK	FCA	FLANGE COUPLING ADAPTER	LF	LINEAR FOOT	PS	PIPE SUPPORT	SVC	SERVICE		
BLM	BUREAU OF LAND MANAGEMENT	FCS	FLUSH CONTROL STATION	LL	LIVE LOAD OR LOOSE LINTEL	PSF	POUNDS PER SQUARE FOOT	SWD	SIDE WATER DEPTH		
BM	BENCH MARK	FD	FLOOR DRAIN	LOC	LOCATION	PSI	POUNDS PER SQUARE INCH	SYMM	SYMMETRICAL		
BOD	BIOCHEMICAL OXYGEN DEMAND	FDN	FOUNDATION	LP	LOW PRESSURE OR LIGHT POLE	PSIA	POUNDS PER SQUARE INCH ABSOLUTE	SYS	SYSTEM		
BOT	BOTTOM	FES	FLARED END SECTION	LR	LONG RADIUS	PSIG	POUNDS PER SQUARE INCH GAGE	T&B	TOP AND BOTTOM		
BU	BELL UP	FF EL	FINISH FLOOR ELEVATION	LS	LICENSED SURVEYOR	PSV	PRESSURE SUSTAINING VALVE	T&G	TONGUE AND GROOVE		
BV	BALL VALVE	FH	FIRE HYDRANT	LT	LIGHT	PT	POINT OR POINT OF TANGENCY	T&P	TEMPERATURE AND PRESSURE		
C/C	CENTER TO CENTER	FIN	FINISH	LT WT	LIGHTWEIGHT	PV	PLUG VALVE	T	TEE		
CCP	CONCRETE CYLINDER PIPE	FIN FL	FINISH FLOOR	LWL	LOW WATER LEVEL	PVC	POLYVINYL CHLORIDE OR POINT OF VERTICAL CURVE	TB	TOP OF BEAM		
CCW	COUNTER CLOCKWISE	FIN GR	FINISH GRADE	MAINT	MAINTENANCE	PVG	PAVING	TBM	TEMPORARY BENCH MARK		
CFM	CUBIC FEET PER MINUTE	FL	FLANGE	MAN	MANUAL	PVI	POINT OF VERTICAL CURVE INTERSECTION	TE	TOP ELEVATION		
CHKV	CHECK VALVE	FLR	FLOOR	MATL	MATERIAL	PVMT	PAVEMENT	TEMP	TEMPORARY		
CIP	CAST IRON PIPE	FPM	FEET PER MINUTE	MAX	MAXIMUM	Q AVG	AVERAGE DAILY FLOW	TFA	TO FLOOR ABOVE		
CISP	CAST IRON SOIL PIPE	FPS	FEET PER SECOND	MCC	MOTOR CONTROL CENTER	Q MAX	MAXIMUM DAILY FLOW	TFB	TO FLOOR BELOW		
CJ	CONSTRUCTION JOINT	FRP	FIBERGLASS REINFORCED PLASTIC	MECH	MECHANICAL	Q PEAK	PEAK HOUR FLOW	TFF	TOP OF FINISH FLOOW		
CL	CENTER LINE OR CHAIN LINK	FT	FEET	MED	MEDIUM	QTR	QUARTER	TH	TEST HOLE		
CLR	CLEAR	FTG	FOOTING OR FITTING	MFM	MAGNETIC FLOW METER	QTY	QUANTITY	THD	THREAD (ED)		
CMP	CORRUGATED METAL PIPE	G	GAS	MFR	MANUFACTURER	RAD	RADIUS	THK	THICK		
CMU	CONCRETE MASONRY UNIT	GA	GAUGE	MG	MILLION GALLONS OR MILLIGRAMS	RC	REINFORCED CONCRETE	TJ	TOP OF JOIST		
CO	CLEAN OUT	GAL	GALLON	MGD	MILLION GALLONS PER DAY	RCP	REINFORCED CONCRETE PIPE	TOA	TOP OF ASPHALT		
CONC	CONCRETE	GALV	GALVANIZED	MGMT	MANAGEMENT	RD	ROOF DRAIN	TOC	TOP OF CONCRETE OR TOP OF CURB		
CONN	CONNECTION	GND	GROUND	MH	MANHOLE	RECT	RECTANGULAR	TOE	THREADED ONE END		
CONSTR	CONSTRUCTION	GPD	GALLONS PER DAY	MIN	MINIMUM	RED	REDUCER	TOF	TOP OF FOOTING		
CONT	CONTINUOUS(ATION)	GPM	GALONS PER MINUTE	MISC	MISCELLANEOUS	RE:	REFER TO	TOS	TOP OF STEEL		
COR	CORNER	GR	GRIT	MJ	MECHANICAL JOINT	REF	REFERENCE	TOW	TOP OF WALL		
CPLG	COUPLING	GRC	GALVANIZED RIGID CONDUIT	MNPT	MALE NATIONAL PIPE THREAD	REHAB	REHABILITATION	TP	TOP OF PAVEMENT		
CPVC	CHLORINATED POLYVINYL CHLORIDE	GSP	GALVANIZED STEEL PIPE	MO	MASONRY OPENING	REINF	REINFORCE (D) (ING) (MENT)	TSL	TOP OF SLAB		
CTR	CENTER	GV	GATE VALVE	MRGB	MOISTURE RESISTANT GYPSUM WALL BOARD	REQD	REQUIRED	TSS	TOTAL SUSPENDED SOLIDS		
CV	CHECK VALVE	GW	GROUNDWATER	MTG	MOUNTING	RESIL	RESILIENT	TYP	TYPICAL		
CW	COLD WATER	GWB	GYPSUM WALL BOARD	NA	NOT APPLICABLE	RFCA	RESTRAINED FLANGED COUPLING ADAPTER	UBC	UNIFORM BUILDING CODE		
CY	CUBIC YARDS	GYP	GYPSUM	NIC	NOT IN CONTRACT	RH	RIGHT HAND	UGE	UNDERGROUND ELECTRIC		
DBIO	DEWATERED BIOSOLIDS	HB	HOSE BIBB	NPL	NAMEPLATE	RM	ROOM	ULT	ULTIMATE		
DEMO	DEMOLITION	HDWL	HEADWALL	NPT	NATIONAL PIPE THREAD	RO	ROUGH OPENING	UN	UNION		
DIA	DIAMETER	HNDRL	HAND RAIL	NRS	NON-RISING STEM	ROW	RIGHT OF WAY	UNGD	UNDERGROUND		
DIM	DIMENSION	HNDWL	HAND WHEEL	NTS	NOT TO SCALE	RPBP	REDUCED PRESSURE BACKFLOW PREVENTER	VB	VALVE BOX		
DIP	DUCTILE IRON PIPE	HORIZ	HORIZONTAL	OC	ON CENTER	RPM	REVOLUTIONS PER MINUTE	VCP	VITRIFIED CLAY PIPE		

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Atlanta, GA 30339
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STATE OF GEORGIA
GOODWIN MILLS
CAWOOD, LLC
No. PE007988
Exp. 03-31-2025
REGISTERED PROFESSIONAL ENGINEER
GRAHAM S. SIZEMORE

1"5"0"1"

COMMERCE 2.0 MGD
3ROVE CREEK WPCP
COMMERCE, GA

CATL230033

ABBREVIATIONS

G-004

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
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COMMERCE 2.0 MGD
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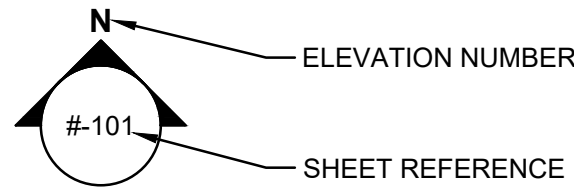
ABBREVIATIONS

G-004

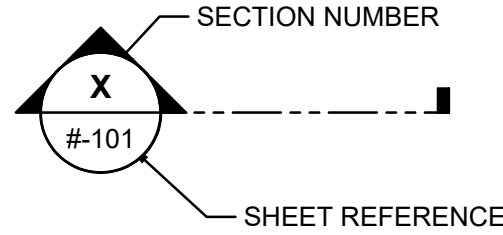


GRAPHICS LEGEND

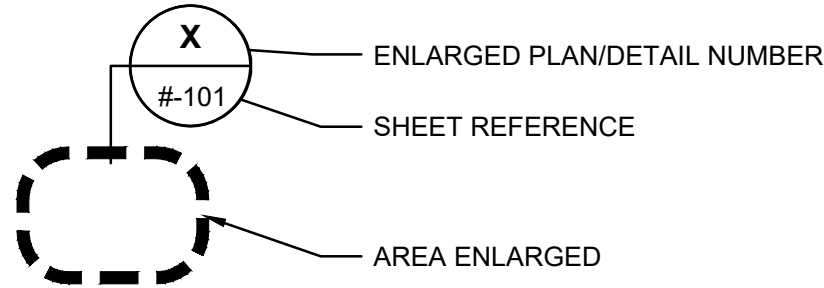
ELEVATION INDICATOR



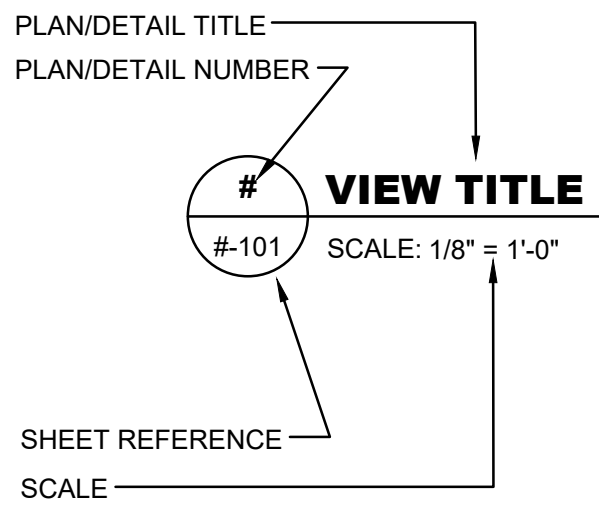
SECTION INDICATOR



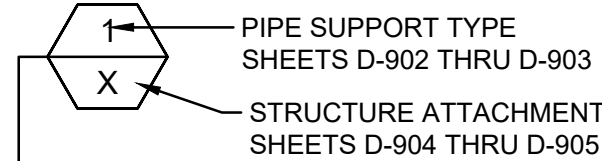
ENLARGED PLAN/DETAIL INDICATOR



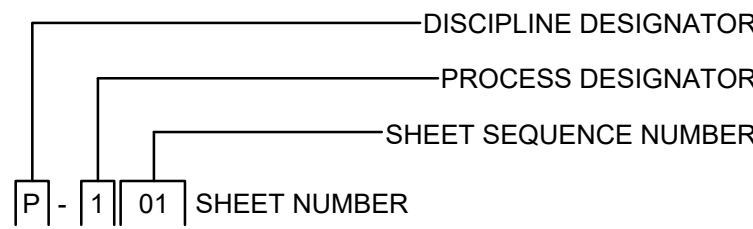
DRAWING TITLE



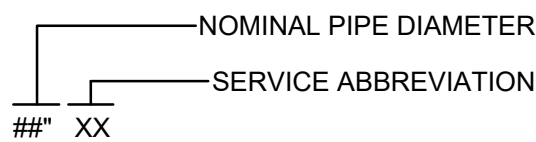
PIPE SUPPORT INDICATOR



SHEET NUMBERING



PIPE LINE IDENTIFICATION



PROCESS DESIGNATORS

PROCESS SHEETS (WASTEWATER)	DESIGNATOR
NOTES, LEGEND, ABBREVIATIONS, DEMOLITION, EXISTING CONDITIONS, ETC.	0
PRELIMINARY TREATMENT	1
PRIMARY TREATMENT	2
BIOLOGICAL TREATMENT	3
SECONDARY TREATMENT	4
TERTIARY TREATMENT	5
DISINFECTION AND EFFLUENT PUMPING	6
SLUDGE STORAGE AND PROCESSING	7
MISCELLANEOUS SYSTEMS	8
DETAILS / SCHEDULES	9

CIVIL DESIGNATORS

CIVIL	DESIGNATOR
NOTES, LEGEND, ABBREVIATIONS, DEMOLITION, EXISTING CONDITIONS, ETC.	0
SITE PLAN AND GEOMETRIC CONTROLS	1
GRADING AND DRAINAGE	2
UTILITIES/YARD PIPING	3
ROAD PLAN AND PROFILES (IF REQUIRED)	4
ROAD CROSS SECTIONS (IF REQUIRED)	5
SEDIMENT AND EROSION CONTROL	6
RESERVED	7
RESERVED	8
DETAILS / SCHEDULES	9

OWNER

DESCRIPTION	NAME	PHONE NUMBER	EMAIL ADDRESS
CITY MANAGER	MATTHEW HAILEY	706.423.5125	MHAILEY@COMMERCEGA.GOV
WWTP SUPERINTENDENT	TAD EDMONSON	770.374.3288	TEDMONSON@COMMERCEGA.GOV

CONTRACTOR

DESCRIPTION	NAME	PHONE NUMBER	EMAIL ADDRESS
PROJECT MANAGER	TBD		
SUPERINTENDENT	TBD		

ENGINEER

DESCRIPTION	NAME	PHONE NUMBER	EMAIL ADDRESS
PROJECT MANAGER	CHARLES WELCH	770.952.2481 EXT. 103	CHARLES.WELCH@GMCNETWORK.COM
ENGINEER	GRAHAM SIZEMORE, PE	770.952.2481 EXT. 143	GRAHAM.SIZEMORE@GMCNETWORK.COM
INSPECTOR	TONY VAN DE RYT	770.952.2481 EXT. 110	TONY.VANDERYT@GMCNETWORK.COM

PIPE SYMBOLS

DESCRIPTION	SINGLE LINE	DOUBLE LINE
EXISTING BURIED PIPE		
EXISTING ABOVE GRADE PIPE		
NEW BURIED PIPE		
NEW ABOVE GRADE PIPE		
WELDED JOINT		
FLANGED JOINT		
FLANGED ADAPTOR		
FLANGED COUPLING		
MECHANICAL JOINT		
JOINT		
EXPANSION JOINT		

HATCHING LEGEND

DESCRIPTION	EXISTING	PROPOSED
ASPHALT PAVING (PLAN)		
ALUMINUM GRATING		
CONCRETE (ELEVATION)		
CONCRETE (PLAN)		
CONCRETE (SECTION)		
CRUSHED STONE (SECTION)		
EARTH OR BACKFILL (SECTION)		
GRAVEL DRIVE (PLAN)		
GROUT FILL (PLAN & SECTION)		
LAKE, RIVER OR POND (PLAN)		
REMOVAL OR DEMOLITION (PLAN & SECTION)		
UNPAVED DRIVE (PLAN)		

DISCIPLINE DESIGNATORS

DISCIPLINE	DESIGNATOR
GENERAL	G
HAZARDOUS MATERIALS	H
INSTRUMENTATION	I
DEMOLITION	X
SURVEY/MAPPING	V
GEOTECHNICAL	B
CIVIL	C
LANDSCAPE	L
STRUCTURAL	S
ARCHITECTURAL	A
FIRE PROTECTION	F
MECHANICAL	M
PLUMBING	P
PROCESS	D
ELECTRICAL	E

GENERAL NOTES

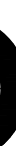
1. THE CONTRACTOR IS EXPECTED TO CAREFULLY EXAMINE THE PLAN, PROPOSAL AND SITE OF THE WORK, THEREFORE, IT WILL BE ASSUMED THAT THE BIDDER HAS SATISFIED HIMSELF AS TO THE CONDITIONS TO BE ENCOUNTERED IN REGARDS TO THE CHARACTER, QUALITY, AND QUANTITIES OF WORK TO BE PERFORMED AND MATERIALS TO BE FURNISHED, AND AS TO THE REQUIREMENTS OF THE PLANS, SPECIFICATIONS, SPECIAL PROVISIONS AND CONTRACT. THE SUBMISSION OF A PROPOSAL BY A BIDDER WILL BE CONSIDERED PRIMA FACIE EVIDENCE THAT THE BIDDER HAS MADE SUCH AN EXAMINATION.
2. THE CONTRACTOR IS REQUIRED TO MAINTAIN AN AS-BUILT SET OF DRAWINGS THROUGHOUT PROJECT CONSTRUCTION. THE COMPLETE AS-BUILT MAP WILL CONTAIN ALL INSTALLED ELECTRICAL, STRUCTURAL ENTITIES, LINES, VALVES, METERS, AND CONNECTIONS WITH REFERENCE DISTANCES TO PERMANENT ABOVE GROUND STRUCTURES.
3. ALL EXISTING UTILITIES SHOWN ABOVE AND BELOW GROUND ARE APPROXIMATE AND ARE NOT NECESSARILY ALL THAT EXIST. THE DETERMINATION OF THE EXISTENCE, LOCATION, AND DEPTH OF ALL UTILITIES SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.
4. ALL MATERIALS AND WORKMANSHIP SHALL BE GUARANTEED BY CONTRACTOR FOR ONE YEAR AFTER ACCEPTANCE BY THE OWNER PER SPECIFICATION 1030.
5. IN THE EVENT THAT THERE IS A DISCREPANCY BETWEEN THE CIVIL DRAWINGS AND THE ARCHITECTURAL/STRUCTURAL DRAWINGS, THE ARCHITECTURAL/STRUCTURAL DRAWINGS SHALL HAVE PRECEDENCE. THE CONTRACTOR SHALL ADVISE THE ENGINEER OF ANY CONFLICT IN THE PLANS/SPECS FOR CLARIFICATION PRIOR TO BID. SHOULD CONFLICTING DOCUMENTS NOT BE CLARIFIED AT THE REQUEST OF THE BIDDING CONTRACTOR, THE MORE COSTLY ALTERNATIVE AS IDENTIFIED IN THE PLAN & SPECS SHALL BE INCLUDED IN THE PRICE BID.
6. ALL HAZARDOUS SUBSTANCES USED FOR THIS PROJECT, INCLUDING, BUT NOT LIMITED TO, PAINT, OIL, GREASE, AND OTHER PETROLEUM PRODUCTS SHALL BE STORED IN ACCORDANCE WITH "SPILL PREVENTION, CONTROL & COUNTERMEASURE" REGULATIONS. THESE SUBSTANCES SHALL BE STORED AWAY FROM STORM DRAINS, DITCHES, AND GUTTERS IN WATERTIGHT CONTAINERS. DISPOSAL OF THESE SUBSTANCES SHALL BE IN ACCORDANCE WITH STATE & FEDERAL AGENCY REGULATIONS. CONTRACTOR SHALL PROVIDE ADEQUATE TRASH CONTAINERS ON SITE FOR THE DISPOSAL OF CONSTRUCTION MATERIALS WASTE. CONTRACTOR SHALL BE RESPONSIBLE FOR PREVENTING ANY TRASH OR OTHER POLLUTANTS FROM ENTERING STORM DRAINS & WATERS OF THE STATE.

GENERAL NOTES, LEGENDS, & SYMBOLS

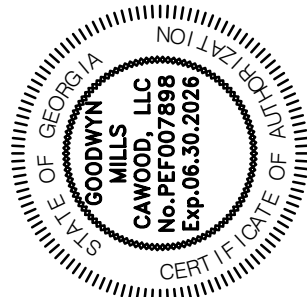
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COMMERCE, GA

G-005

CATL230033

The ONG logo is positioned in the bottom right corner of the page. It consists of the letters 'ONG' in a bold, black, sans-serif font. The 'O' and 'G' are stylized with a slight gap in the middle of their vertical strokes.

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ISSUE	DATE
30% Submittal	05.30.2024
60% Submittal	08.29.2024
90% Submittal	11.27.2024
Bid Set	03.19.2025
Project Manager:	CW
Engineer:	GS
Designer:	GS
Drawn By:	



LOUVERS

SYMBOL	MODEL / SERIES	SERVES	SIZE (WxH) (IN)	MIN FREE AREA (SF)	CFM	MAX PRESS. DROP (IN WC)	OPERATOR	INTERLOCK	FRAME	REMARKS			
										1	2	3	4
WL-1	EAD-635	DEWATERING STORAGE	24x18	1.1	870	0.1	MOD	EF-4	ALUMINUM	X	X	X	
WL-2	EAD-635	DEWATERING ROOM	42x30	4.4	3,600	0.1	MOD	EF-5	ALUMINUM	X	X	X	X
WL-3	EAD-635	CHEMICAL FEED BUILDING	18x18	0.5	450	0.1	MOD	EF-6	ALUMINUM	X	X	X	X
WL-4	EAD-635	BLOWER BUILDING	48X48	7.9	6,500	0.1	MOD	EF-7	ALUMINUM	X	X	X	
WL-5	EAD-635	BLOWER BUILDING	48X48	7.9	6,500	0.1	MOD	BLOWERS	ALUMINUM	X	X	X	

NOTES (APPLY TO ALL):

- A. FINAL COLOR SELECTION SHALL BE MADE BY ARCHITECT AT TIME OF SHOP DRAWING APPROVAL. PROVIDE COLOR/FINISH CHARTS AS PART OF SUBMITTAL.
- B. DESIGN IS BASED ON PRODUCTS BY GREENHECK. ACCEPTABLE ALTERNATES SHALL BE BY UNITED ENERTECH, ARROW, RUSKIN.

REMARKS (APPLY AS SCHEDULED):

1. BIRD SCREEN
2. BAKED ON ENAMEL FINISH.
3. 120V MOTORIZED DAMPER.
4. CORROSION-RESISTANT COATING.

UNIT HEATER - ELECTRIC

MARK	SERVES	FAN		HEATING		BASIS OF DESIGN	WEIGHT (LBS)
		AIRFLOW (CFM)	MOTOR (HP)	KW	STAGES		
EUH-A	DEWATERING	350	1/100	5.0	2	CHROMALOX HD3D	27.0
EUH-B	BLOWER ROOM	1,320	1/10	20.0	4	CHROMALOX HD3D	60.0
EUH-1	CHEMICAL FEED	350	1/100	3.0	2	CHROMALOX HD3D	27.0

NOTES: (APPLY TO ALL)

- A. DISCONNECT SWITCH PROVIDED BY THE ELECTRICAL SUBCONTRACTOR.
- B. 24V CONTROL TRANSFORMER AND REMOTE / WALL MOUNTED THERMOSTAT SET TO 40°F (ADJ.).
- C. AUTOMATIC THERMAL CUT-OUT.
- D. FAN DELAY.
- E. ADJUSTABLE DISCHARGE LOUVERS.
- F. CORROSION-RESISTANT CONSTRUCTION.

DIFFUSER, GRILLE, AND REGISTER SCHEDULE

CALLOUT	DESCRIPTION	FACE SIZE (IN)	INLET SIZE (IN)	NOISE CRITERIA @ MAX CFM	MODEL
RC2424	EGGCRATE GRILLE	24x24	24x24	25	TITUS 50F
RS1206	EGGCRATE GRILLE	12x6	12x6	25	TITUS 50F
RS1212	EGGCRATE GRILLE	12x12	12x12	25	TITUS 50F
SCEC1212	EGGCRATE GRILLE	12x12	12x12	25	TITUS 50F
SCEC2424	EGGCRATE GRILLE	24x24	24x24	25	TITUS 50F
SCPO6	SUPPLY CEILING PLAQUE DIFFUSER	24x24	6Ø	25	TITUS OMNI
SCPO8	SUPPLY CEILING PLAQUE DIFFUSER	24x24	8Ø	25	TITUS OMNI
SCP10	SUPPLY CEILING PLAQUE DIFFUSER	24x24	10Ø	25	TITUS OMNI
SCP14	SUPPLY CEILING PLAQUE DIFFUSER	24x24	14Ø	25	TITUS OMNI

- A. AIR DEVICE (I.E. DIFFUSERS, REGISTERS AND GRILLES) COLOR SELECTION SHALL BE MADE BY ARCHITECT. CONTRACTOR SHALL SUBMIT COLOR/FINISH CHARTS FOR ARCHITECTURAL REVIEW AND SELECTION.
- B. THE CONTRACTOR SHALL COORDINATE AIR DEVICE FRAME AND/OR SUSPENSION TYPE WITH THE ARCHITECTURAL REFLECTED CEILING PLAN.

ROOFTOP DIRECT EXPANSION (DX) EQUIPMENT

MARK	SERVES	TOTAL S.A. (CFM)	O.A. (CFM)	E.S.P. (IN WG)	AUX. ELEC. HEATER (KW)	WEIGHT (LBS.)	CARRIER BASIS OF DESIGN	NOMINAL TONNAGE	MINIMUM COOLING CAPACITY						REMARKS																
									TOTAL (MBH)	SENS (MBH)	LAT (MBH)	Ent. Tdb (°F)	Ent. Twb (°F)	Lvg. Tdb (°F)	Lvg. Twb (°F)	1	2	3	4	5	6	7	8	9	10						
RTU-1	LABORATORY	1,990	400	0.50	12.0	584.0	50GEQ	5.0	63.0	44.9	18.1	78.6	66.6	57.0	56.0	X	X	X	X				X	X	X	X					
RTU-2	ADMIN BUILDING	3,000	750	0.50	18.6	885.0	50GEQ	7.5	89.0	65.6	23.4	79.5	67.3	58.5	57.5	X	X	X	X			X	X	X	X	X					
RTU-3	BLOWER BLDG ELEC ROOM	3,400	0	0.50	7.8	910.0	50GEQ	8.5	101.7	73.2	28.5	75.0	64.0	54.5	53.5	X	X	X	X			X	X	X	X	X					

NOTES (APPLY TO ALL):

- A. SEE ELECTRICAL DRAWINGS FOR ELECTRICAL POWER INFORMATION.
- B. SUBMITTED UNIT CAPACITIES SHOULD BE WITHIN +/- 10% OF SCHEDULED CAPACITIES.
- C. DESIGN IS BASED ON PRODUCTS BY CARRIER. ACCEPTABLE ALTERNATES SHALL BE BY TRANE, LENNOX, DAIKIN, OR JCI. SHOULD AN ALTERNATE MANUFACTURER BE PROVIDED, THE MECHANICAL CONTRACTOR SHALL BE FULLY RESPONSIBLE FOR COORDINATING EQUIPMENT'S ELECTRICAL CHARACTERISTICS WITH THE ELECTRICAL CONTRACTOR.
- D. ALL UNITS SHALL BE INSTALLED WITH AN ELECTRONIC WATER LEVEL DETECTOR IN THE PRIMARY DRAIN PAN. WATER LEVEL DETECTOR SHALL BE INSTALLED AT A POINT HIGHER THAN THE PRIMARY DRAIN LINE AND LOWER THAN THE DRAIN PAN OVERFLOW RIM. THE WATER LEVEL DETECTOR SHALL BE WIRED TO SHUT DOWN THE UNIT UPON DETECTION OF WATER.
- E. UNITS SHALL BE DOE 2023 COMPLIANT.

REMARKS (APPLY AS SCHEDULED):

1. NON POWERED WEATHER PROOF GFCI RECEPTICLE.
2. FACTORY DISCONNECT SWITCH.
3. AIRSIDE ENTHALPY ECONOMIZER WITH MOTORIZED RETURN AND OUTDOOR AIR DAMPERS.
4. POWERED EXHAUST. POWERED EXHAUST SHALL RUN ONLY WHEN UNIT IS IN ECONOMIZER MODE.
5. MOTORIZED OUTDOOR AIR DAMPER.
6. FIELD PROVIDED AND FIELD INSTALLED SMOKE DETECTOR. SMOKE DETECTOR SHALL BE MOUNTED IN THE SUPPLY DUCT.
7. FACTORY INSULATED ROOF CURB.
8. LOW AMBIENT COOLING KIT.
9. 2 STAGE COOLING.

FAN SCHEDULE

MARK	SERVES	DUTY	TYPE	CFM	ESP (IN WG)	MOTOR (W / HP*)	DRIVE	MAX NOISE (SONES)	CONTROL BY	BASIS OF DESIGN MODEL	REMARKS							
											1	2	3	4	5	6	7	8
EF-1	MEN'S RESTROOM	EXHAUST	CEILING CABINET	190	0.5	155	DIRECT	4.5	OCCUPANCY SENSOR	GREENHECK SP	X	X	X					
EF-2	WOMEN'S RESTROOM	EXHAUST	CEILING CABINET	190	0.5	155	DIRECT	4.5	OCCUPANCY SENSOR	GREENHECK SP	X	X	X					
EF-3	DEWATERING RESTROOM	EXHAUST	CEILING CABINET	120	0.5	150	DIRECT	3.5	OCCUPANCY SENSOR	GREENHECK SP	X	X	X					
EF-4	DEWATERING STORAGE	EXHAUST	PROPELLER WITH LOUVER	750	0.5	1112*	DIRECT	7.9	THERMOSTAT	GREENHECK AER	X	X	X	X	X		X	
EF-5	DEWATERING ROOM	EXHAUST	PROPELLER WITH LOUVER	3600	0.5	1*	DIRECT	14.1	THERMOSTAT	GREENHECK AER	X	X	X	X	X	X	X	X
EF-6	CHEMICAL FEED BUILDING	EXHAUST	PROPELLER WITH LOUVER	450	0.5	1/4*	DIRECT	6.4	THERMOSTAT	GREENHECK AER	X	X	X	X	X	X	X	X
EF-7	BLOWER ROOM	EXHAUST	ROOF CENTRIFUGAL	5600	0.5	2*	DIRECT	22.0	THERMOSTAT	GREENHECK G	X	X	X					X

NOTES (APPLY TO ALL):

- A. SEE ELECTRICAL PLANS FOR POWER CHARACTERISTICS
- B. DESIGN IS BASED ON PRODUCTS BY GREENHECK. ACCEPTABLE ALTERNATES SHALL BE BY LOREN-COOK, TWIN-CITY, PENN BARRY.

REMARKS (APPLY AS SCHEDULED):

1. FAN SPEED CONTROLLER.
2. FACTORY DISCONNECT SWITCH/PLUG.
3. GRAVITY BACKDRAFT DAMPER.
4. WALL HOUSING.
5. OSHA GUARD.
6. CORROSION-RESISTANT COATING.
7. MOTORIZED LOUVER, FULL SIZE OF FAN. INTERLOCKED WITH FAN TO OPEN WHEN FAN IS ENERGIZED AND TO CLOSE WHEN FAN IS OFF.
8. FACTORY INSULATED ROOF CURB.



SCHEDULES

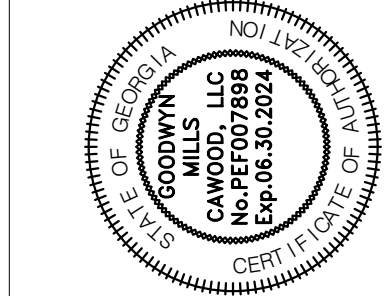
M-003



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LAB FAN SCHEDULE

MARK	SERVES	DUTY	TYPE	CFM	ESP (IN WG)	MOTOR (W / HP*)	DRIVE	CONTROL BY	BASIS OF DESIGN MODEL	REMARKS							
										1	2	3	4	5	6	7	8
LEF-1	LABORATORY FUME HOOD	EXHAUST	HIGH PLUME LABORARY EXHAUST	630	0.3	1/2*	DIRECT	INTERLOCKED WITH HOOD	GREENHECK VECTOR-H-10	X	X	X	X	X	X	X	

NOTES (APPLY TO ALL):

A. SEE ELECTRICAL PLANS FOR POWER CHARACTERISTICS

B. DESIGN IS BASED ON PRODUCTS BY GREENHECK. ACCEPTABLE ALTERNATES SHALL BE BY LOREN-COOK, TWIN-CITY, PENN BARRY.

REMARKS (APPLY AS SCHEDULED):

1. FAN SPEED CONTROLLER.

2. MOUNTED AND WIRED DISCONNECT TOGGLE SWITCH (NEMA-3R) FOR INDOOR AND OUTDOOR USE.

3. GRAVITY BACKDRAFT DAMPER.

4. HEAVY LOAD ROOF CURB.

5. VARIABLE FREQUENCY DRIVE MOTOR.

6. CORROSION-RESISTANT COATING. GREENHECK LABCOAT OR EQUAL.

7. SPARK RESISTANCE: SPARK B.

ELECTRIC WALL HEATER

MARK	SERVES	WATTS	HEAT (BTU/H)	BASIS OF DESIGN	REMARKS					
					1	2	3	4	5	6
EW-H-1	ADMIN UTILITY ROOM	1500	5120	QMARK AWH	X	X	X	X	X	X
EW-H-2	DEWATERING RESTROOM	1500	5120	QMARK AWH	X	X	X	X	X	X

REMARKS:

1. INTEGRAL THERMOSTAT TO MAINTAIN MINIMUM 45°F (ADJUSTABLE).

2. COORDINATE ELECTRICAL CHARACTERISTICS WITH ELECTRICAL CONTRACTOR.

3. FAN DELAY SWITCH.

4. THERMAL CUTOUT.

5. FACTORY DISCONNECT SWITCH.

6. SURFACE MOUNTING KIT.

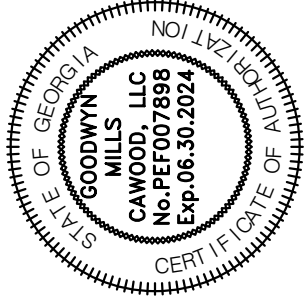


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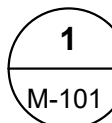
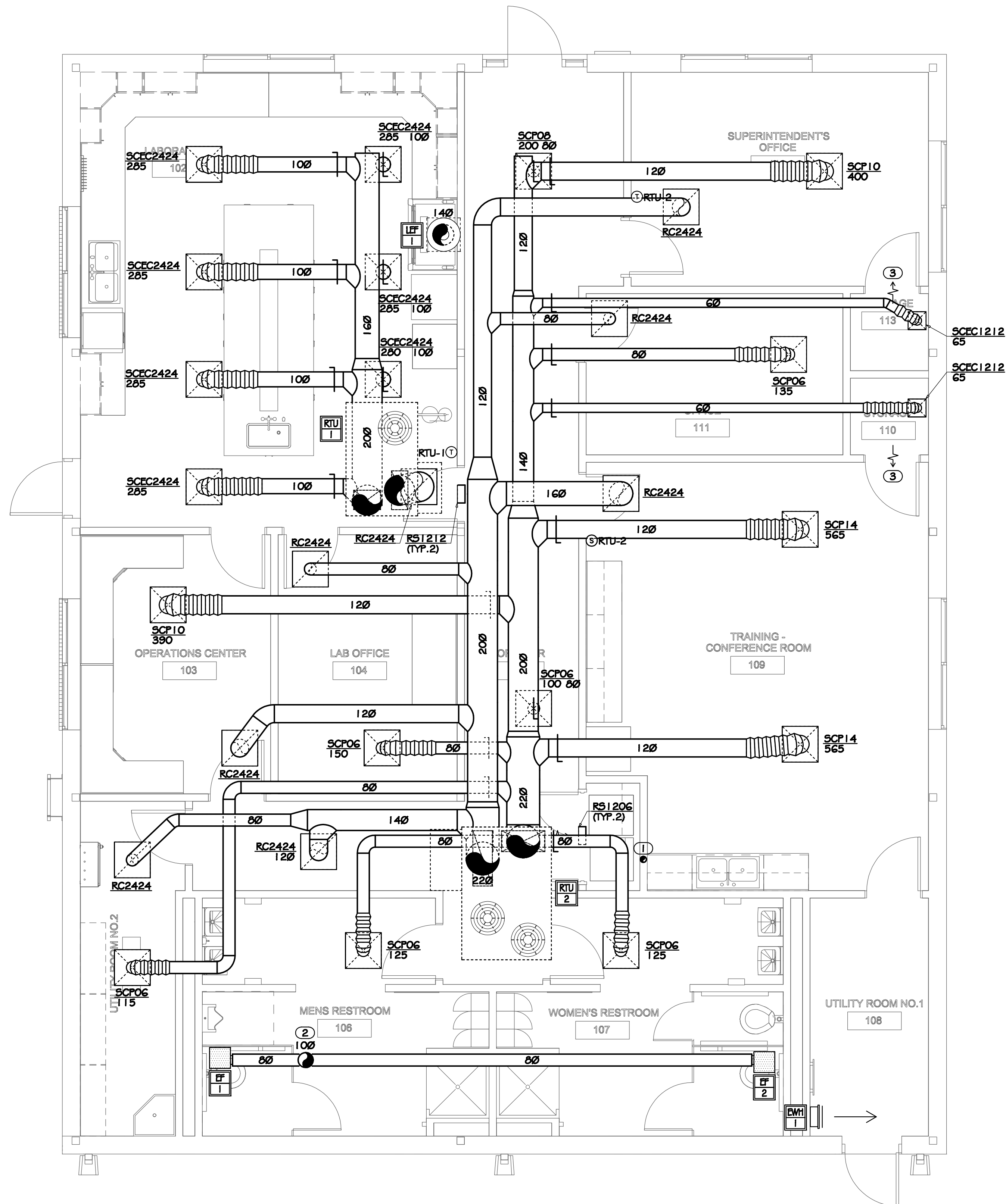


SCHEDULES

M-004

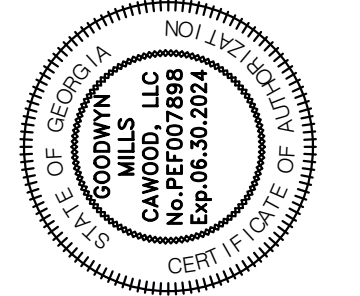
- A. EACH SUPPLY DIFFUSER/REGISTER RUNOUT SHALL BE PROVIDED WITH A VOLUME DAMPER. REFER TO THE DIFFUSER TAKE-OFF DETAIL FOR ADDITIONAL INFORMATION.
- B. DRAWINGS ARE DIAGRAMMATIC ONLY; FINAL ROUTING OF DUCTWORK AND EQUIPMENT LOCATIONS SHALL BE DETERMINED IN THE FIELD. ADDITIONAL OFFSETS, ELBOWS, ETC. SHALL BE PROVIDED AND INSTALLED WITHOUT ADDITIONAL COST TO THE OWNER.
- C. ALL EXHAUST TERMINATIONS SHALL BE LOCATED A MINIMUM OF 1'-0" AWAY FROM MECHANICAL AIR INTAKES AND A MINIMUM OF 3'-0" AWAY FROM OPERABLE BUILDING OPENINGS.
- D. ALL ROOFTOP EQUIPMENT SHALL BE LOCATED A MINIMUM OF 1'-0" AWAY FROM ROOF EDGE WHERE CLEARANCE CANNOT BE MET, FALL PROTECTION SHALL BE REQUIRED.

- ① 4"Ø DRYER EXHAUST DUCT ROUTED FROM WALL BOX TO EXTERIOR ROOF CAP WITH INTEGRAL BACKDRAFT DAMPER. REFER TO DETAILS.
- ② EXHAUST DUCT ROUTED TO EXTERIOR ROOF CAP WITH INSECT SCREEN.
- ③ UNDERCUT DOOR 3/4".



ADMIN BUILDING FLOOR PLAN

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



ISSUE	DATE
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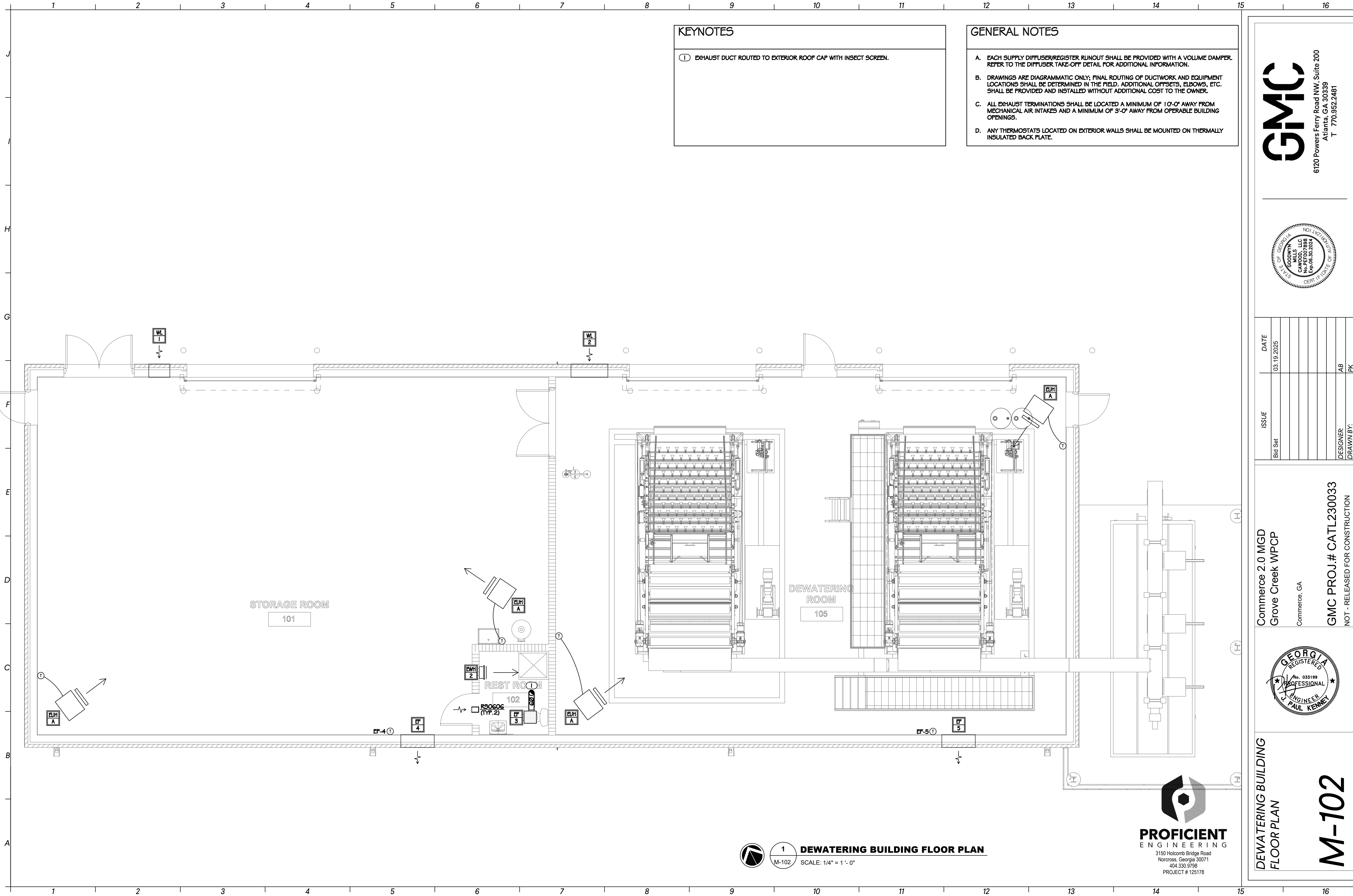
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ADMIN BUILDING FLOOR PLAN

M-101



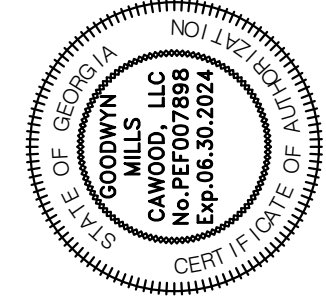
KEYNOTES

- ① EXHAUST DUCT ROUTED TO EXTERIOR ROOF CAP WITH INSECT SCREEN.

GENERAL NOTES

- A. EACH SUPPLY DIFFUSER/REGISTER RUNOUT SHALL BE PROVIDED WITH A VOLUME DAMPER. REFER TO THE DIFFUSER TAKE-OFF DETAIL FOR ADDITIONAL INFORMATION.
- B. DRAWINGS ARE DIAGRAMMATIC ONLY; FINAL ROUTING OF DUCTWORK AND EQUIPMENT LOCATIONS SHALL BE DETERMINED IN THE FIELD. ADDITIONAL OFFSETS, ELBOWS, ETC. SHALL BE PROVIDED AND INSTALLED WITHOUT ADDITIONAL COST TO THE OWNER.
- C. ALL EXHAUST TERMINATIONS SHALL BE LOCATED A MINIMUM OF 1'0"-0" AWAY FROM MECHANICAL AIR INTAKES AND A MINIMUM OF 3'-0" AWAY FROM OPERABLE BUILDING OPENINGS.
- D. ANY THERMOSTATS LOCATED ON EXTERIOR WALLS SHALL BE MOUNTED ON THERMALLY INSULATED BACK PLATE.

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DEWATERING BUILDING
FLOOR PLAN
M-102

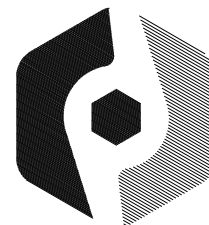


1 DEWATERING BUILDING FLOOR PLAN
M-102 SCALE: 1/4" = 1' - 0"

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PROJECT # 125178



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



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PROJECT # 125178

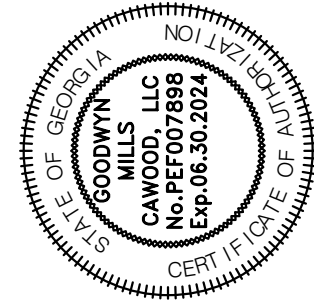
- A. EACH SUPPLY DIFFUSER/REGISTER ROUNOUT SHALL BE PROVIDED WITH A VOLUME DAMPER. REFER TO THE DIFFUSER TAKE-OFF DETAIL FOR ADDITIONAL INFORMATION.
- B. DRAWINGS ARE DIAGRAMMATIC ONLY; FINAL ROUTING OF DUCTWORK AND EQUIPMENT LOCATIONS SHALL BE DETERMINED IN THE FIELD. ADDITIONAL OFFSETS, ELBOWS, ETC. SHALL BE PROVIDED AND INSTALLED WITHOUT ADDITIONAL COST TO THE OWNER.
- C. ANY THERMOSTATS LOCATED ON EXTERIOR WALLS SHALL BE MOUNTED ON THERMALLY INSULATED BACK PLATE.

① CHEM LINES SHALL BE HEAT TRACED AND INSULATED.

② TANK INSULATION PANEL.

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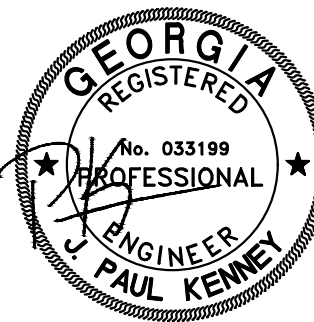
ISSUE	DATE
Bld Set	03.19.2025
DESIGNER:	AB
DRAWN BY:	PK

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CHEMICAL FEED FLOOR PLAN

M-103

GENERAL NOTES


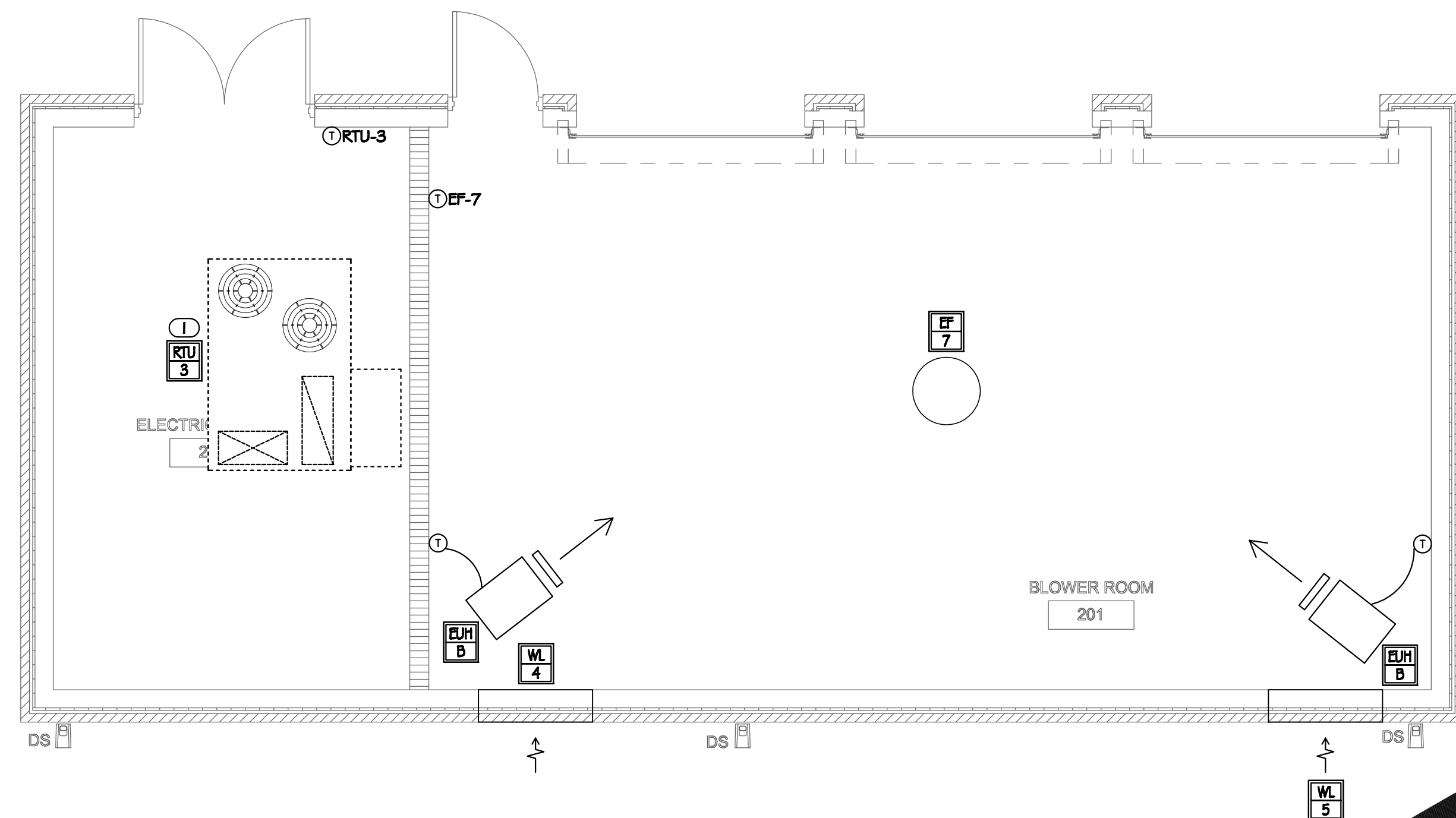
- A. EACH SUPPLY DIFFUSER/REGISTER RUNOUT SHALL BE PROVIDED WITH A VOLUME DAMPER. REFER TO THE DIFFUSER TAKE-OFF DETAIL FOR ADDITIONAL INFORMATION.
- B. DRAWINGS ARE DIAGRAMMATIC ONLY; FINAL ROUTING OF DUCTWORK AND EQUIPMENT LOCATIONS SHALL BE DETERMINED IN THE FIELD. ADDITIONAL OFFSETS, ELBOWS, ETC. SHALL BE PROVIDED AND INSTALLED WITHOUT ADDITIONAL COST TO THE OWNER.
- C. ALL EXHAUST TERMINATIONS SHALL BE LOCATED A MINIMUM OF 1'-0" AWAY FROM MECHANICAL AIR INTAKES AND A MINIMUM OF 3'-0" AWAY FROM OPERABLE BUILDING OPENINGS.
- D. ANY ROOF-MOUNTED EQUIPMENT LOCATED WITHIN 1'-0" OF ROOF EDGE SHALL BE PROVIDED WITH FALL PROTECTION.
- E. ANY THERMOSTATS LOCATED ON EXTERIOR WALLS SHALL BE MOUNTED ON THERMALLY INSULATED BACK PLATE.

- A. EACH SUPPLY DIFFUSER/REGISTER RUNOUT SHALL BE PROVIDED WITH A VOLUME DAMPER. REFER TO THE DIFFUSER TAKE-OFF DETAIL FOR ADDITIONAL INFORMATION.
- B. DRAWINGS ARE DIAGRAMMATIC ONLY; FINAL ROUTING OF DUCTWORK AND EQUIPMENT LOCATIONS SHALL BE DETERMINED IN THE FIELD. ADDITIONAL OFFSETS, ELBOWS, ETC. SHALL BE PROVIDED AND INSTALLED WITHOUT ADDITIONAL COST TO THE OWNER.
- C. ALL EXHAUST TERMINATIONS SHALL BE LOCATED A MINIMUM OF 1'-0" AWAY FROM MECHANICAL AIR INTAKES AND A MINIMUM OF 3'-0" AWAY FROM OPERABLE BUILDING OPENINGS.
- D. ANY ROOF-MOUNTED EQUIPMENT LOCATED WITHIN 1'-0" OF ROOF EDGE SHALL BE PROVIDED WITH FALL PROTECTION.
- E. ANY THERMOSTATS LOCATED ON EXTERIOR WALLS SHALL BE MOUNTED ON THERMALLY INSULATED BACK PLATE.

KEYNOTES

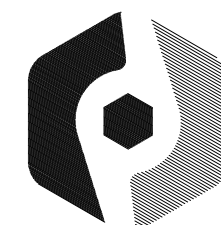
① REFER TO DROP BOX DETAIL.

① REFER TO DROP BOX DETAIL.



BLOWER BUILDING FLOOR PLAN

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



PROFICIENT
ENGINEERING
3150 Holcomb Bridge Road
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404.330.9798
PROJECT # 125178



BLOWER BUILDING PLANS

M-104


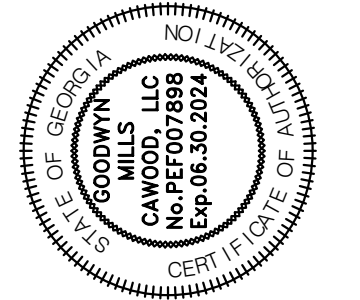
Commerce 2.0 MGD
Grove Creek WPCP

Commerce, GA

GMC PROJ.# CATL230033

NOT - RELEASED FOR CONSTRUCTION

ISSUE	DATE
Bid Set	03.19.2025
DESIGNER:	AB
DRAWN BY:	PK



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