

ROCK HILL SCHOOLS
YORK COUNTY SCHOOL DISTRICT 3
ROCK HILL HIGH SCHOOL
320 W SPRINGDALE ROAD
ROCK HILL, SC 29730

CHILLER REPLACEMENT
PROJECT # 24024
2024-07-11

BID NO. 24-2505

SITE MAP



CHILLER
REPLACEMENT
LOCATION

CONSULTANTS

GENERAL CONSTRUCTION - MECHANICAL - ELECTRICAL
BUFORD GOFF & ASSOCIATES, INC.
1331 ELMWOOD AVENUE, SUITE 200
COLUMBIA, SOUTH CAROLINA 29201
TEL: (803) 254-6302
FAX: (803) 771-6142

CODE ANALYSIS

1.

SOUTH CAROLINA EXISTING BUILDING CODE (SCEBC): 2021
2.

SOUTH CAROLINA BUILDING CODE (SCBC): 2021
3.

SOUTH CAROLINA FIRE CODE (SCFC): 2021
4.

SOUTH CAROLINA MECHANICAL CODE (SCMC): 2021
5.

SOUTH CAROLINA PLUMBING CODE (SCPC): 2021
6.

NATIONAL ELECTRIC CODE (NEC) WITH SC MODIFICATIONS: 2020
7.

INTERNATIONAL ENERGY CONSERVATION CODE (IECC) WITH SC MODIFICATIONS: 2009
8.

SEISMIC & WIND DESIGN CRITERIA: CATEGORY C, RISK CATEGORY III, WIND SPEED 120 MPH

DRAWING INDEX

GENERAL CONSTRUCTION

GC100 CHILLER GENERAL CONSTRUCTION PLAN

MECHANICAL

M100 CHILLER PLAN - MECHANICAL DEMOLITION AND RENOVATION
M200 CHILLER PIPING SCHEMATIC
M300 HVAC DETAILS
M400 HVAC LEGENDS, NOTES, AND SCHEDULES
M500 HVAC CONTROLS DRAWINGS

ELECTRICAL

E100 ELECTRICAL DEMOLITION AND RENOVATION

Project Engineer:
JEB

Drawn By:
JEB

Revisions:
No. _____ Date _____
No. _____ Date _____
No. _____ Date _____
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No. _____ Date _____
No. _____ Date _____

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BUFORD
GOFF &
ASSOCIATES, INC.
No. 000022
CERTIFICATE OF AUTHORIZATION

SOUTH CAROLINA
REGISTERED PROFESSIONAL
No. 26527
7/11/2024
JONATHAN BURKETT

Project
YORK COUNTY SCHOOL DISTRICT 3
ROCK HILL HIGH SCHOOL CHILLER REPLACEMENT

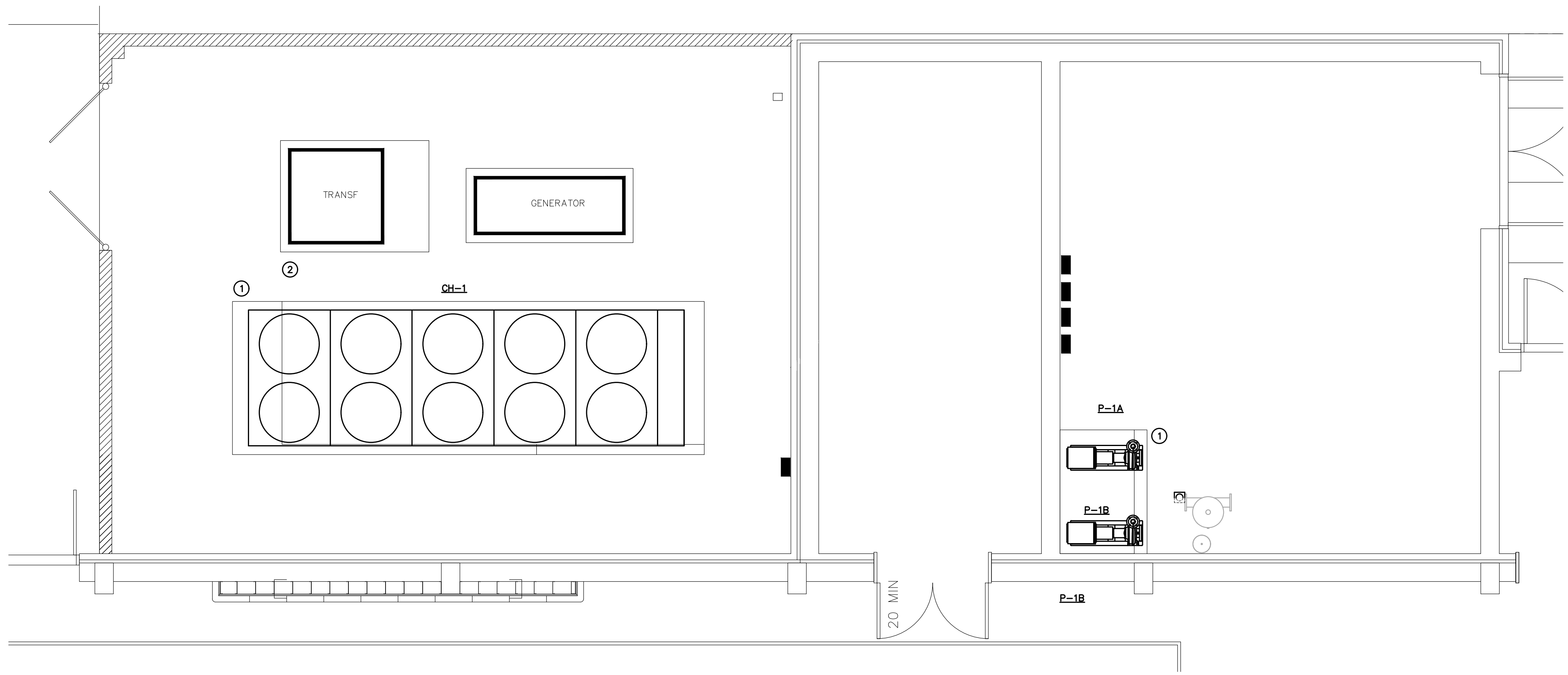
Sheet Title
COVER SHEET

Buford
Goff
& Associates, Inc.
Engineers & Planners

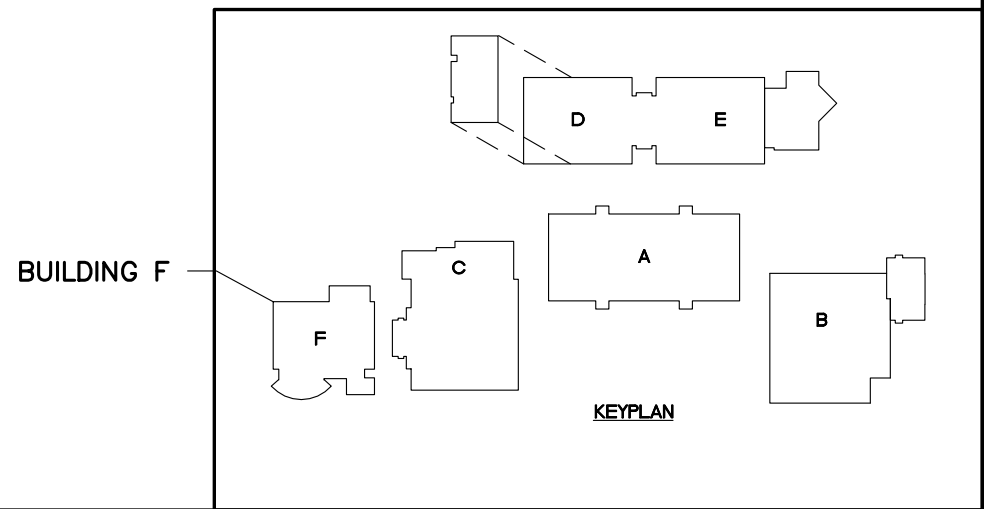
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Suite 200
Columbia, SC 29201
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Sheet Number:
GC100

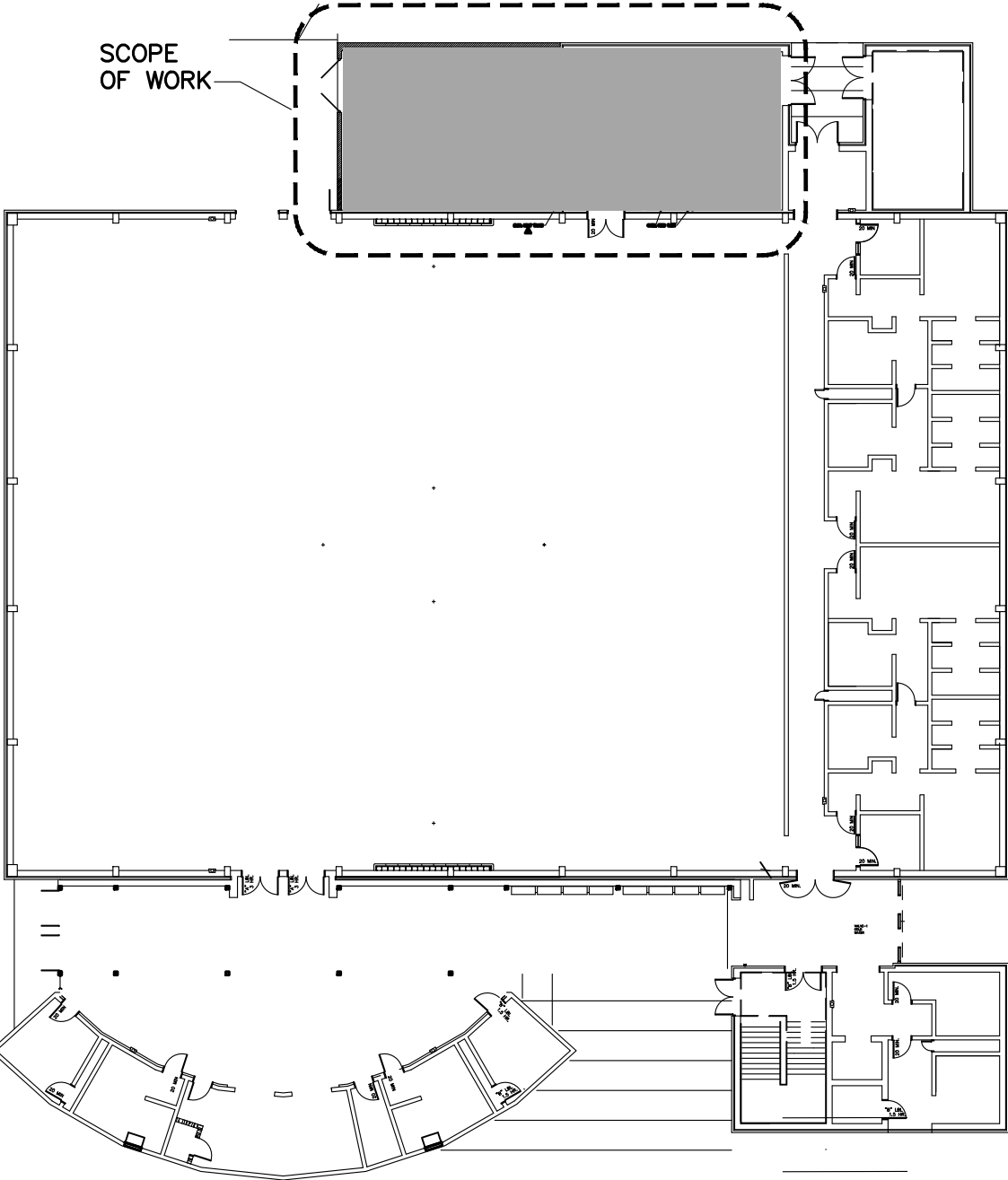
Date: 07.11.2024
Scale: As Noted
BGA PROJECT NUMBER: 24024
CONSTRUCTION DOCUMENTS



2 PARTIAL FLOOR PLAN - MECHANICAL - RENOVATION
M100 SCALE: 1/4" = 1'-0"



BUILDING F KEY PLAN



- GENERAL NOTES
1. CONTRACTOR TO COORDINATE CRANE STAGING WITH SITE CONDITIONS AND OWNER REQUIREMENTS. NOW LIFTING SHALL BE PERFORMED WHEN THE BUILDING IS OCCUPIED. CONTRACTOR SHALL FOLLOW ALL OSHA SAFETY PROTOCOLS.
- # GENERAL CONSTRUCTION KEYNOTES
1. EXTEND PAD AS REQUIRED (APPROX 2'-8") FOR NEW CHILLER AND PUMPS. COORDINATE WITH EXISTING CONDITIONS.

2. REMOVE EXISTING UNUSED TRANSFORMER CONTROL CONDUIT.

Project Engineer:
JEB

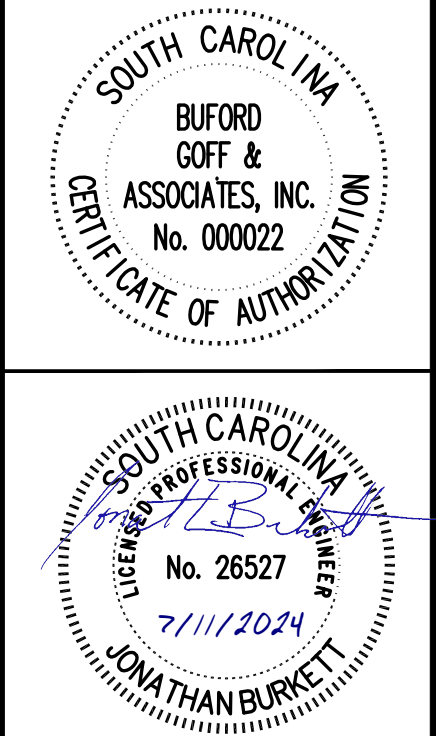
Drawn By:
JEB

Revisions:

No.	_____	Date	_____
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Project

YORK COUNTY SCHOOL DISTRICT 3
ROCK HILL HIGH SCHOOL CHILLER REPLACEMENT

Sheet Title

CHILLER GENERAL CONSTRUCTION PLAN

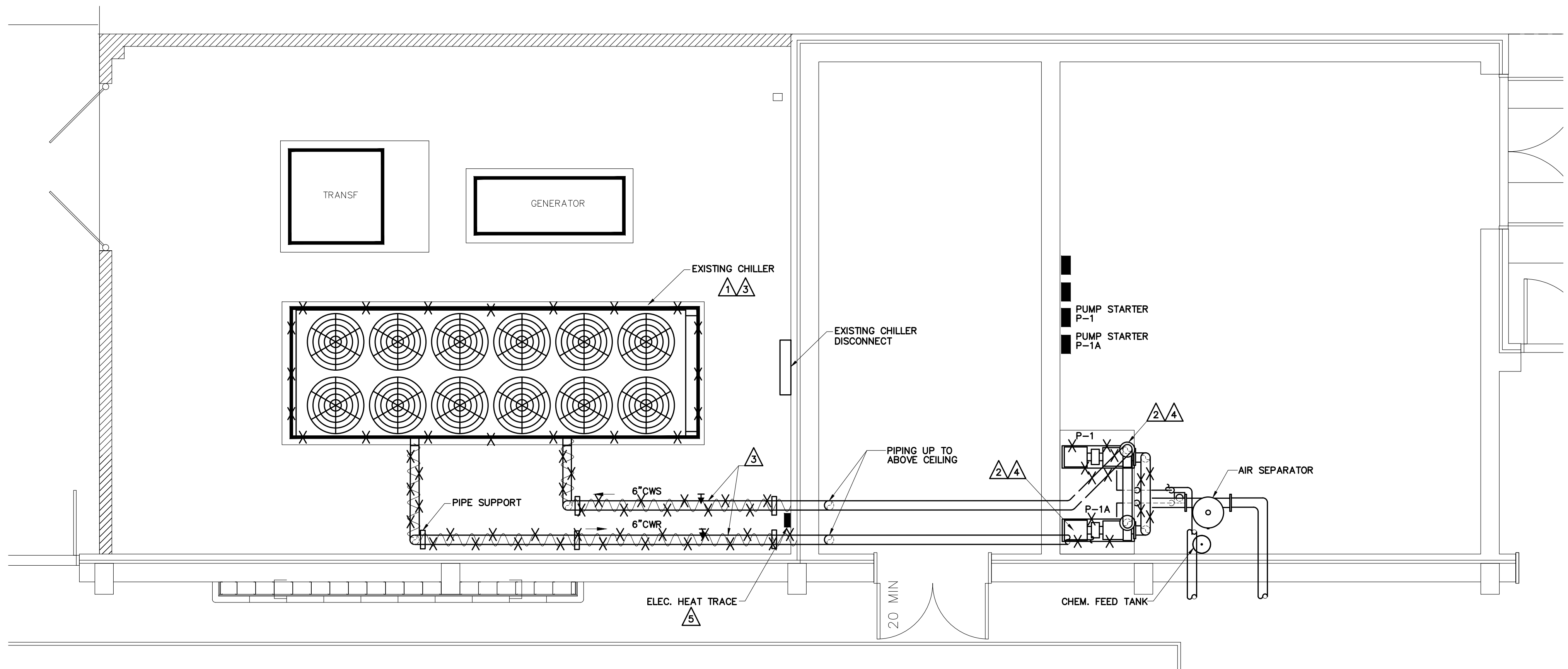
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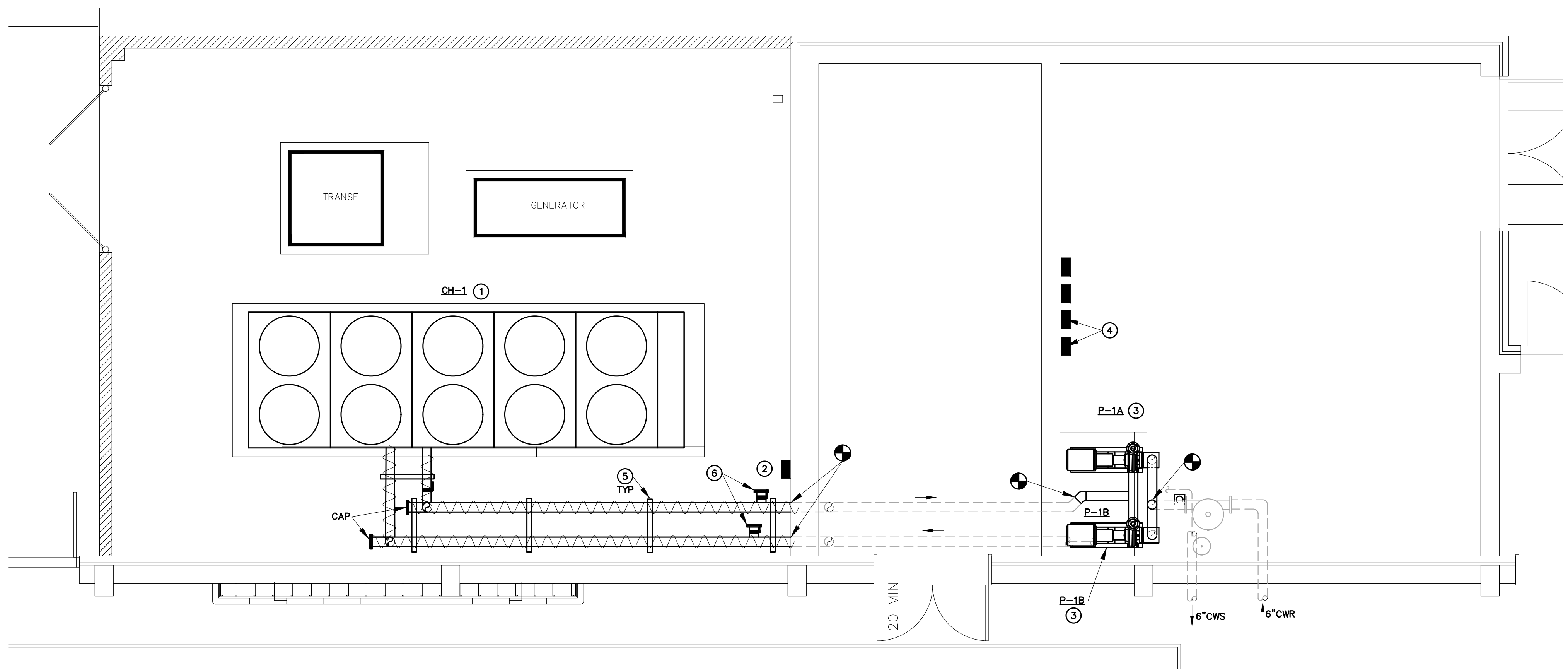
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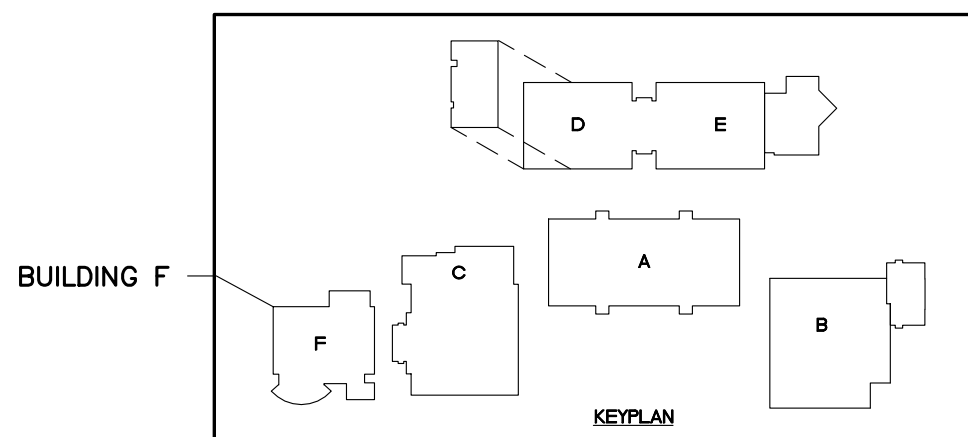
Date: 07.11.2024
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BGA PROJECT NUMBER: 24024
CONSTRUCTION DOCUMENTS



1 PARTIAL FLOOR PLAN - MECHANICAL - DEMOLITION
SCALE: 1/4" = 1'-0"



2 PARTIAL FLOOR PLAN - MECHANICAL - RENOVATION
SCALE: 1/4" = 1'-0"



- GENERAL NOTES
1. CONTRACTOR TO FIELD VERIFY EXISTING CONDITIONS PRIOR TO DEMOLITION.

2. CONTRACTOR SHALL VISIT THE SITE AND BECOME FAMILIAR WITH ALL ASPECTS OF THE PROJECT AND IDENTIFY ANY POTENTIAL ISSUES PRIOR TO DEMOLITION. CONTRACTOR SHALL IDENTIFY THESE ISSUES IN WRITING TO THE ENGINEER.

3. CONTRACTOR SHALL COORDINATE ALL ASPECTS OF THE CONTROLS SYSTEM TO MINIMIZE DOWNTIME.
- HVAC DEMOLITION KEY NOTES
1. MEASURE WATER TEMPERATURE AND FLOW AT CHILLER PRIOR TO DEMOLITION. SUBMIT PRE-DEMOLITION TEST AND BALANCE REPORT TO ENGINEER FOR REVIEW.

2. MEASURE PUMP HEAD AND FLOW PRIOR TO DEMOLITION.

3. DEMOLISH EXISTING AIR COOLED CHILLER AND PIPING BACK TO WALL.

4. DEMOLISH EXISTING PUMP AND PIPING BACK TO INSTALL NEW PUMP. MOVE EXISTING PUMPS TO LOCATION SPECIFIED BY OWNER.

5. DEMOLISH EXISTING HEAT TAPE.
- HVAC RENOVATION KEYNOTES
1. INSTALL NEW CHILLER IN THE SAME APPROXIMATE LOCATION. SEE CHILLER SCHEMATIC AND DETAIL FOR ADDITIONAL INFORMATION.

2. HEAT TAPE. SEE SCHEDULE AND SPECIFICATIONS.

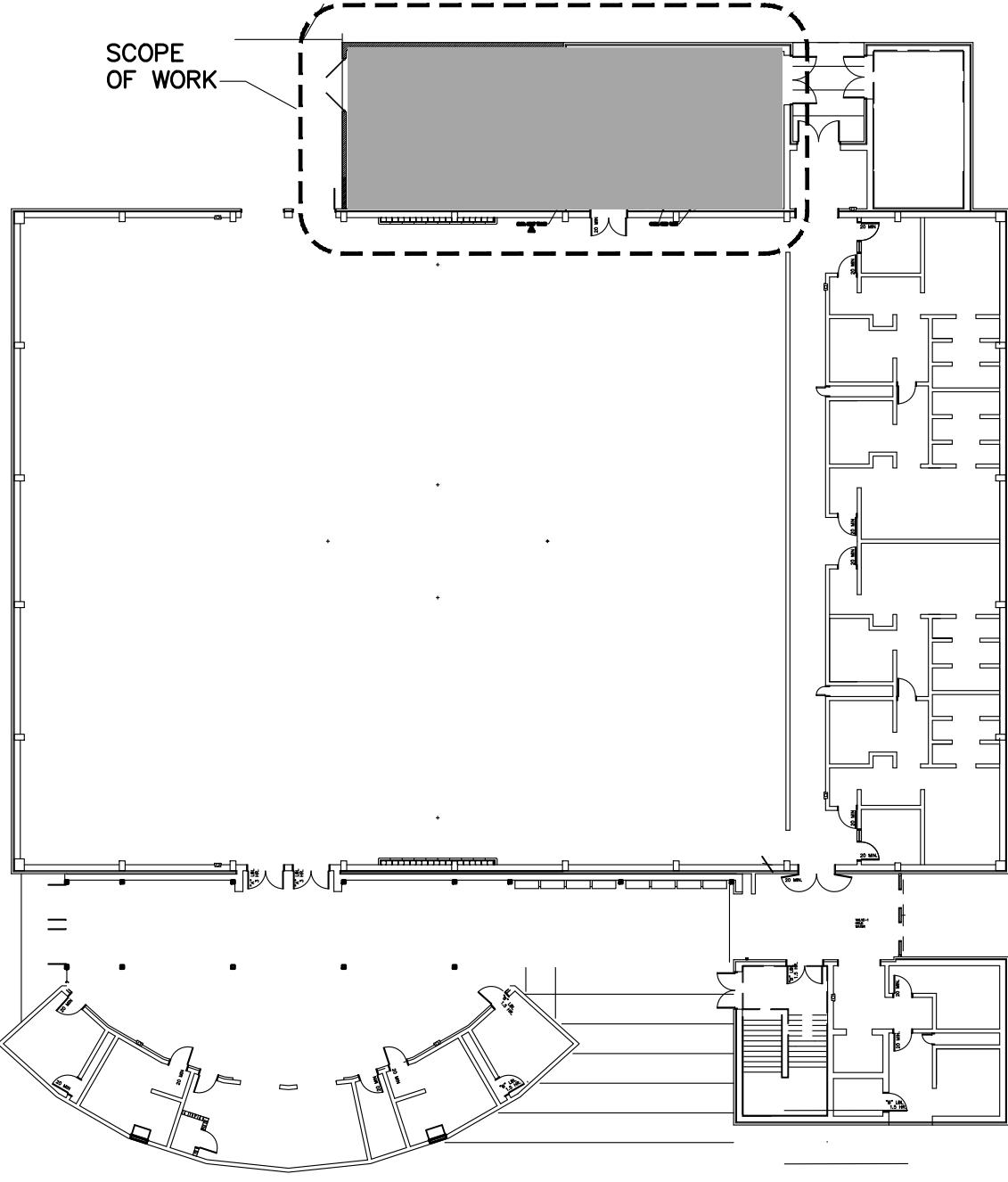
3. LOCATE NEW PUMPS ON EXISTING PADS. RECONNECT DRAINS TO PUMP DRAIN PANS. PROVIDE NEW SUCTION DIFFUSER, TRIPLE DUTY VALVES, FLEXIBLE CONNECTORS, GAUGES, THERMOMETERS, AND SHUTOFF VALVES. SEE DETAIL FOR ADDITIONAL INFORMATION. GROUT PUMP BASES AFTER ALIGNMENT.

4. APPROXIMATE EXISTING LOCATION FOR PUMP STARTERS. REUSE EXISTING PUMP STARTERS. COORDINATE WITH FIELD CONDITIONS.

5. PIPE SUPPORTS. SEE DETAIL.

6. PROVIDE DOUBLE BLIND FLANGES AND BUTTERFLY VALVES FOR TEMPORARY CHILLER CONNECTION. CONTRACTOR SHALL MAKE PROVISIONS TO INSTALL THE TEMPORARY TAPS PRIOR TO THE DEMOLITION OF THE EXISTING CHILLER.

BUILDING F KEY PLAN



Project Engineer:
JEB

Drawn By:
JEB

Revisions:
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No. _____ Date _____
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SOUTH CAROLINA

BUFORD GOFF & ASSOCIATES, INC.

No. 000022

CERTIFICATE OF AUTHORIZATION

SOUTH CAROLINA

REGISTERED PROFESSIONAL ENGINEER

No. 26527

7/11/2024

JOATHAN BURKE

YORK COUNTY SCHOOL DISTRICT 3

ROCK HILL HIGH SCHOOL CHILLER REPLACEMENT

CHILLER PLAN - MECHANICAL DEMOLITION AND RENOVATION

Project

Sheet Title

Buford Goff & Associates, Inc.
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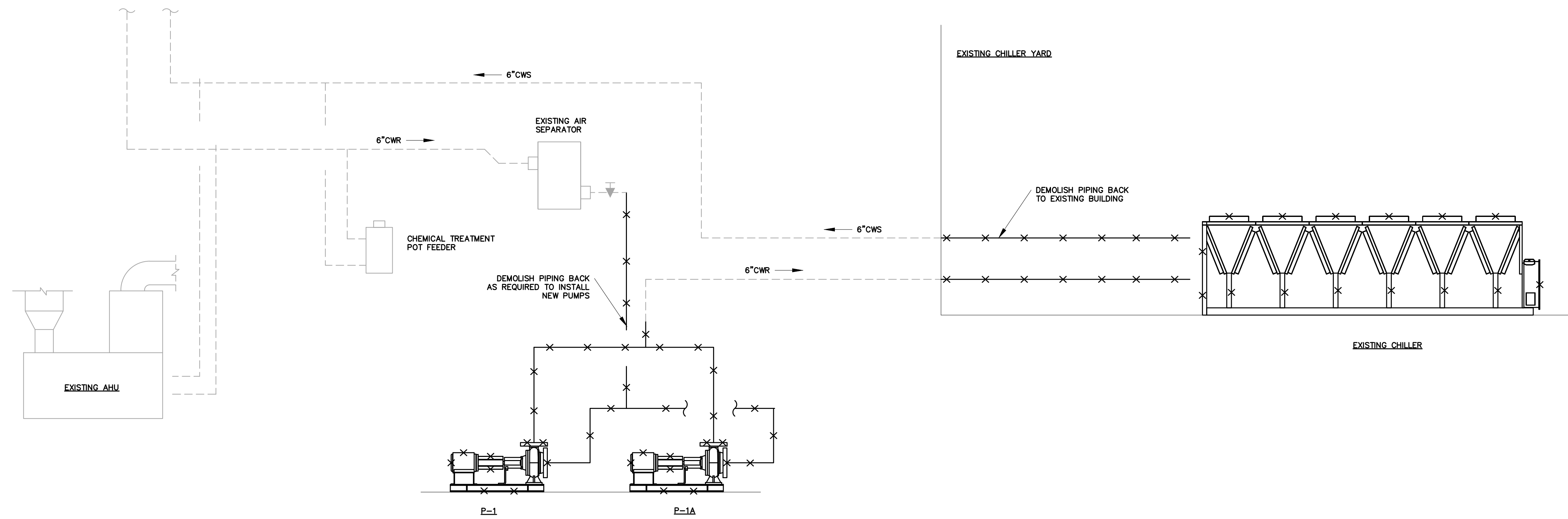
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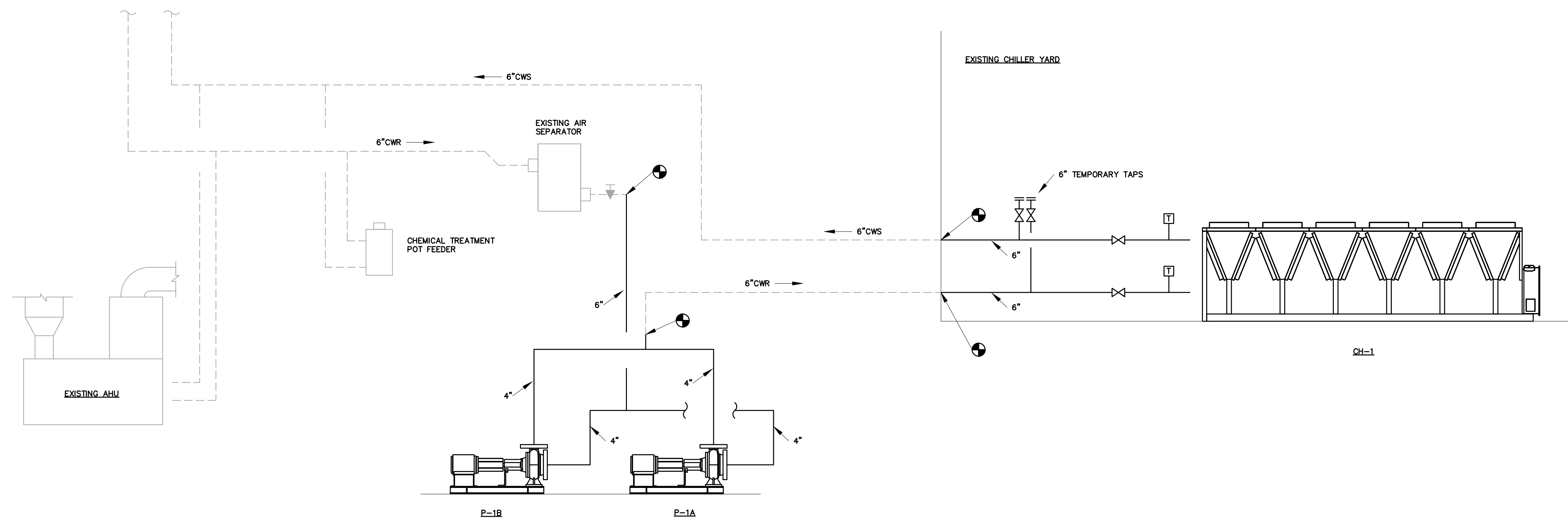
M100

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BGA PROJECT NUMBER: 24024

CONSTRUCTION DOCUMENTS



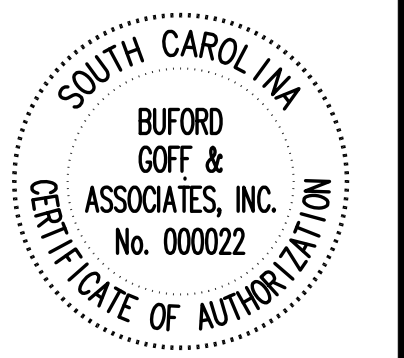
1 PIPING SCHEMATIC (DEMOLITION)
SCALE: NTS



2 PIPING SCHEMATIC (RENOVATION)
SCALE: NTS

Project Engineer:	
JEB	
Drawn By:	
JEB	
Revisions:	
No. _____	Date _____
No. _____	Date _____
No. _____	Date _____
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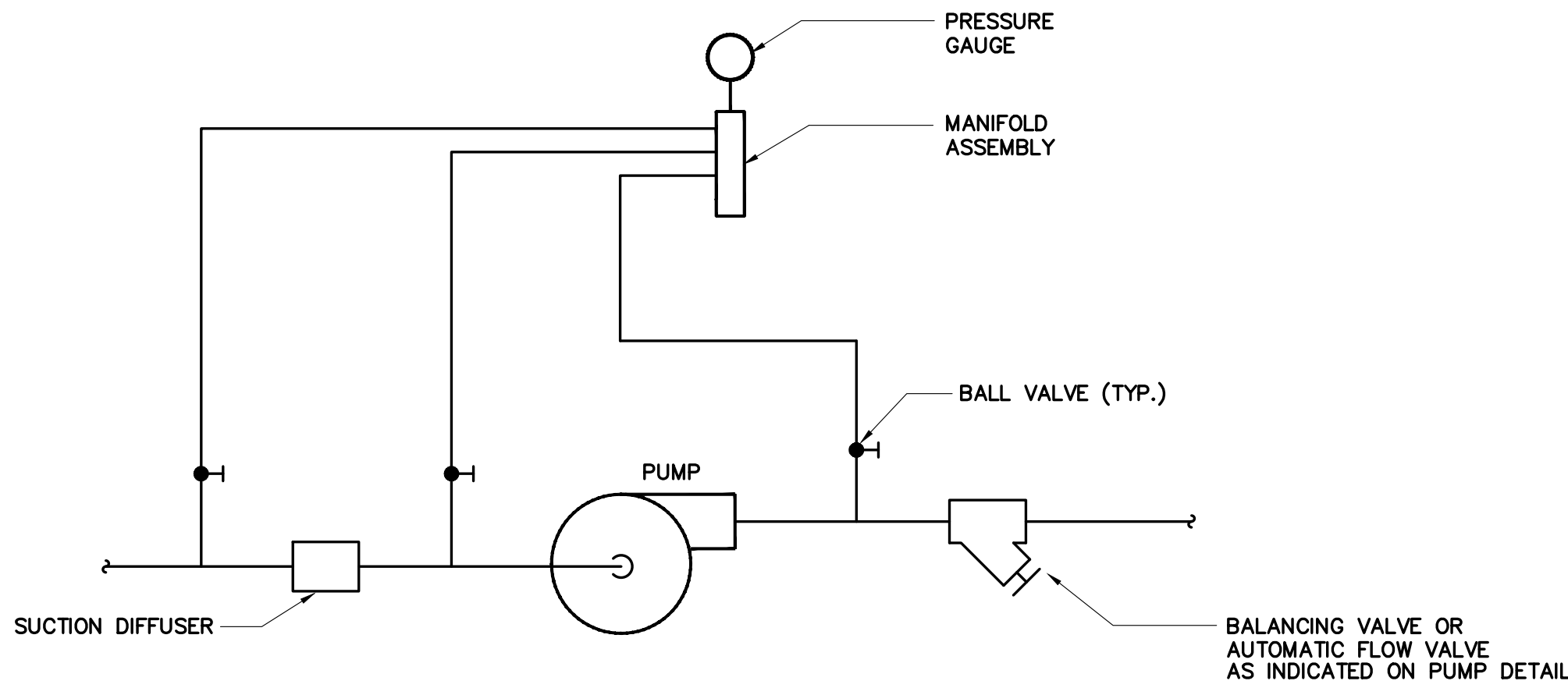


YORK COUNTY SCHOOL DISTRICT 3
ROCK HILL HIGH SCHOOL CHILLER REPLACEMENT
CHILLER PIPING SCHEMATIC

Project
Sheet Title

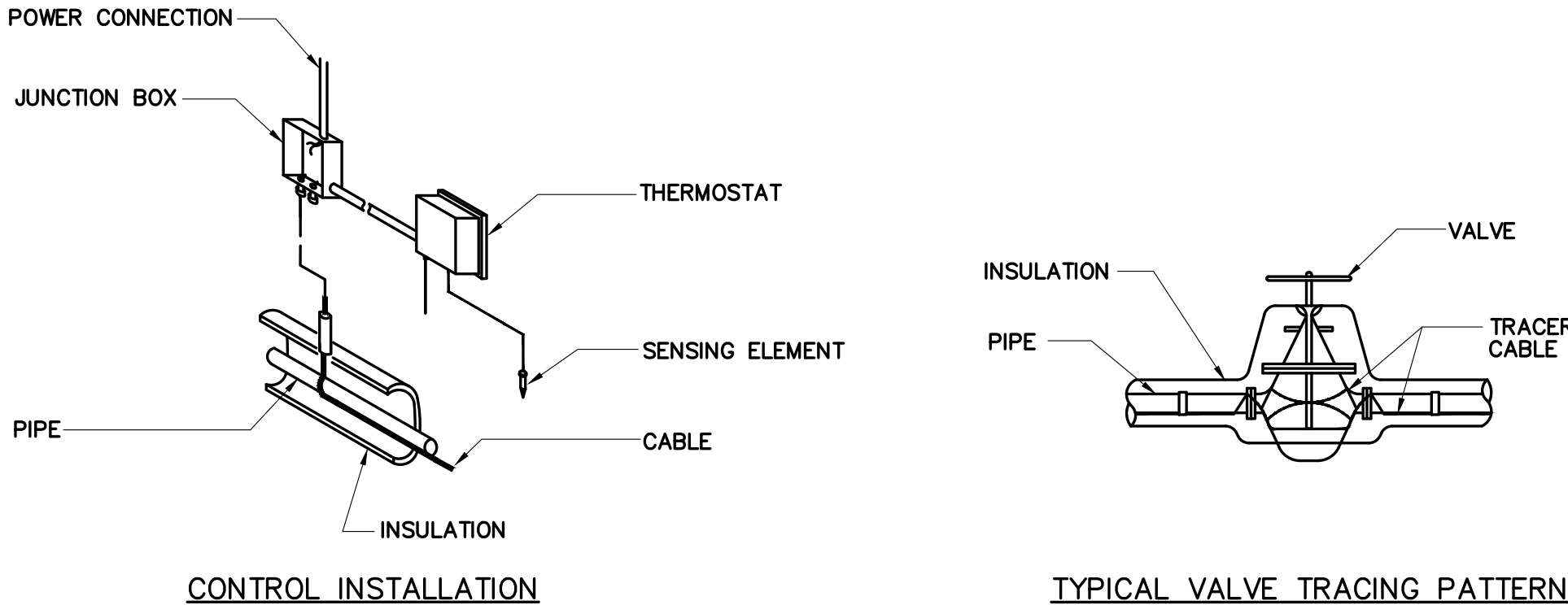
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Sheet Number:
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Date: 07.11.2024
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BGA PROJECT NUMBER: 24024
CONSTRUCTION DOCUMENTS



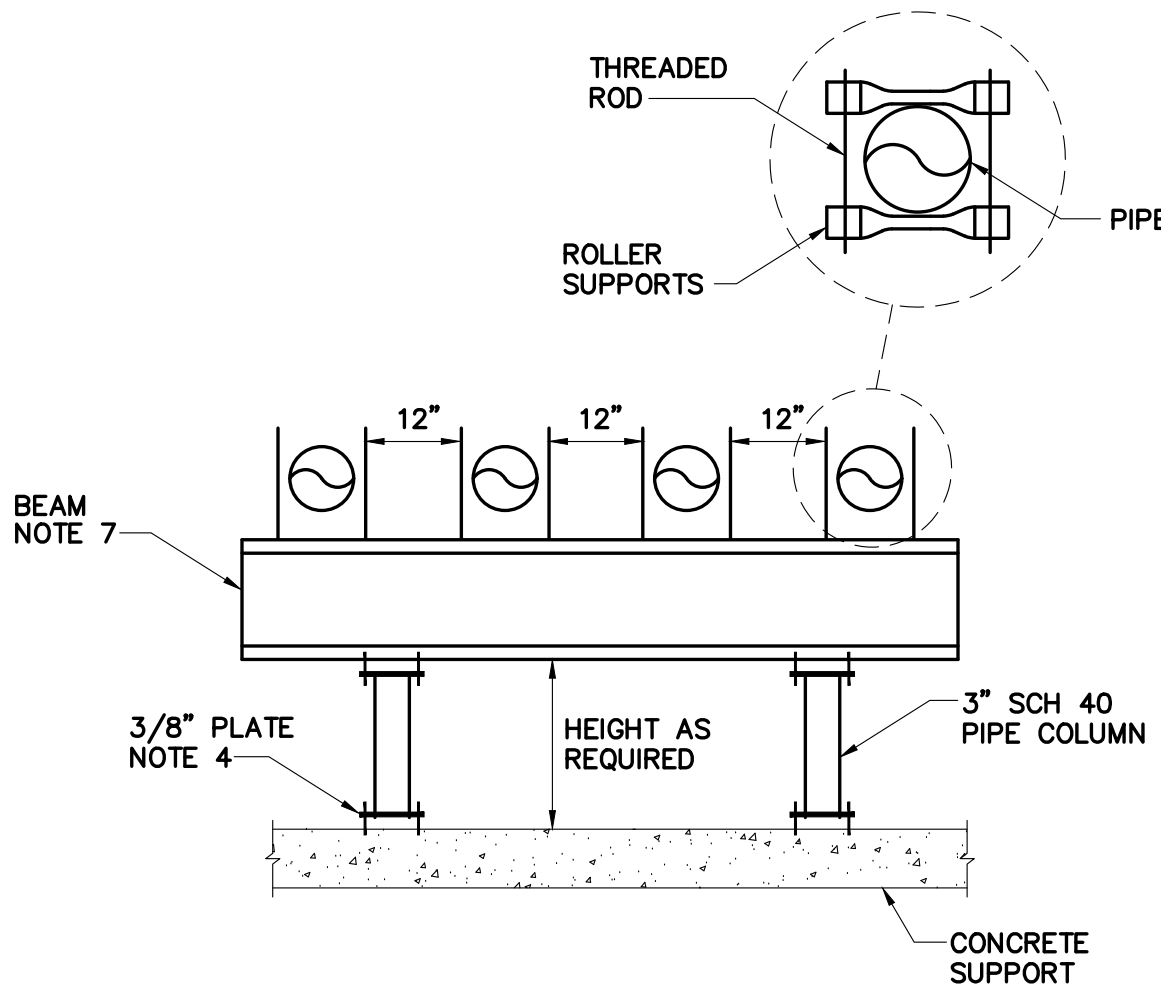
- NOTES:
1. SECURE AND SUPPORT PIPE WITH UNISTRUT.
 2. PIPING TO MANIFOLD ASSEMBLY SHALL BE COPPER, PIPE AND VALVE SHALL BE SAME SIZE AS MANIFOLD CONNECTION.
 3. SYSTEMS WITH STRAINERS AND VALVES IN DIFFERENT LOCATIONS PIPED SIMILARLY.
 4. INDOOR SYSTEMS NOT SUBJECT TO FREEZING ONLY.

MANIFOLD PRESSURE GAUGE ASSEMBLY
3209 NOT TO SCALE



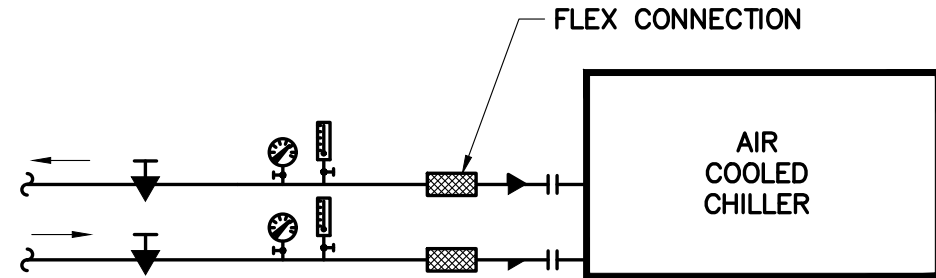
- NOTE:
1. FORM LOOP & WRAP CABLE AROUND VALVE BODY AS RECOMMENDED BY CABLE MANUFACTURER

FREEZE PROTECTION CABLE DETAIL
3450 NOT TO SCALE



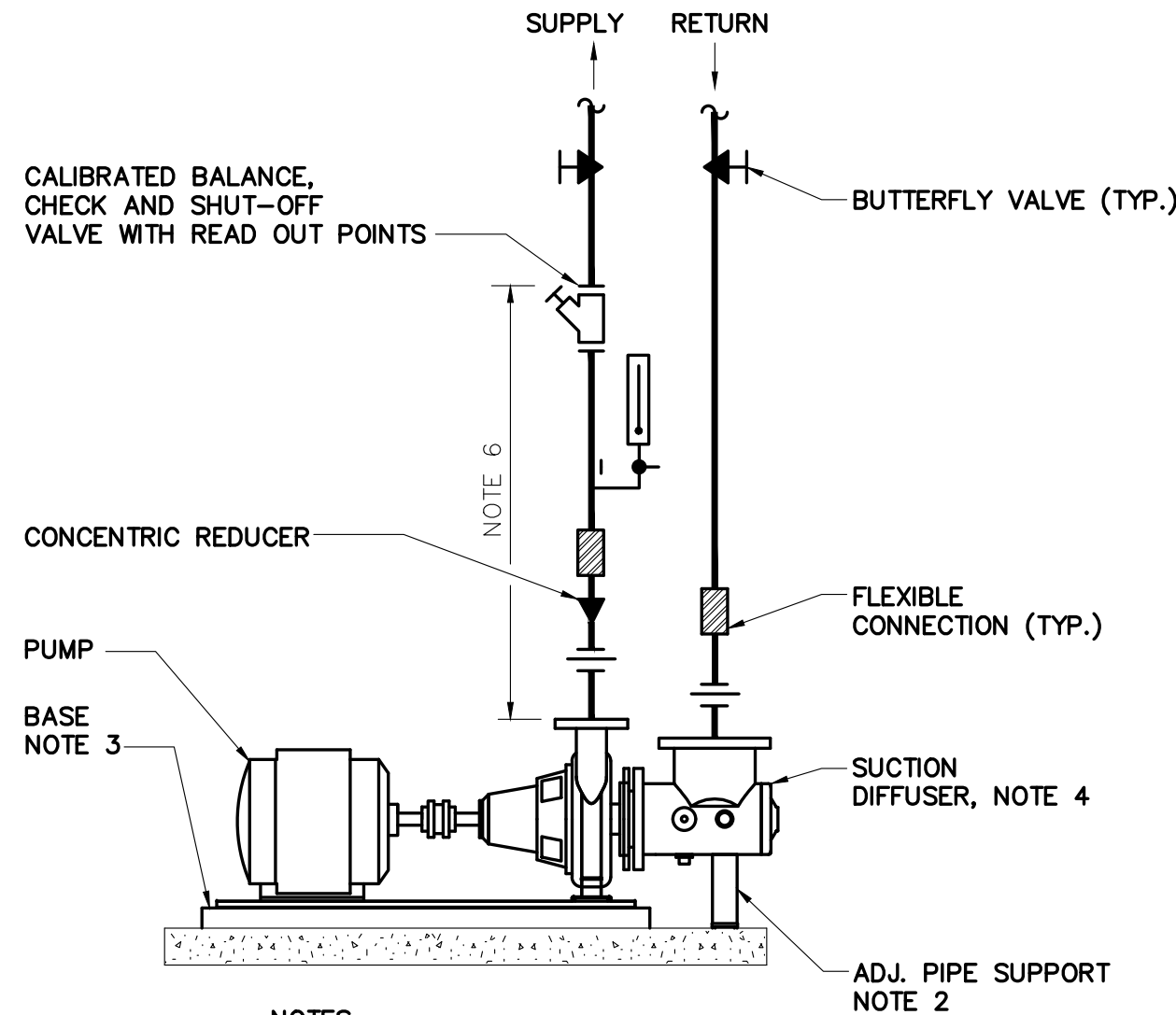
- NOTES:
1. SEE PLAN FOR SPACING OF SUPPORTS AND NUMBER OF PIPES AT EACH SUPPORT.
 2. COORDINATE EXACT HEIGHTS AND WIDTHS OF SUPPORTS WITH CONTRACTOR PROVIDING THE SUPPORTS.
 3. SEE SPECIFICATIONS FOR OUTDOOR HANGERS, SUPPORTS, AND ACCESSORIES.
 4. PLATE AT TOP AND BOTTOM OF PIPE COLUMN, 6"x6" W/ 4 BOLT HOLES. 1/2" BOLTS MIN. UNLESS LARGER BOLTS REQUIRED PER SEISMIC DESIGN.
 5. ALL STRUCTURAL SUPPORTS AND ACCESSORIES SHALL BE HOT DIPPED GALVANIZED.
 6. PIPING SUPPORTED ON TOP OF THE BEAM SHALL HAVE ROLLER SUPPORTS.
 7. MINIMUM 6" FLANGE.

OUTDOOR PIPING SUPPORTS
3405E NOT TO SCALE



- NOTES:
1. HEAT TAPE ALL OUTDOOR PIPE.
 2. PROVIDE FLOW SWITCH AS RECOMMENDED BY MANUFACTURER.

AIR COOLED CHILLER PIPING
3152 NOT TO SCALE

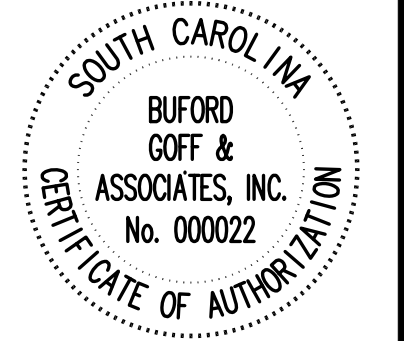


- NOTES:
1. HORIZONTAL AND VERTICAL DOUBLE SUCTION PUMP INSTALLED SIMILARLY.
 2. PUMPS INSTALLED ON ISOLATION BASES SHALL BE SIMILAR EXCEPT ADJ. PIPE SUPPORT SHALL BE SUPPORTED FROM THE ISOLATION BASE.
 3. ANCHOR AND GROUT BASE.
 4. SUCTION DIFFUSER INLET TO BE LINE SIZE. SUCTION DIFFUSER OUTLET TO BE PUMP SUCTION SIZE.
 5. PROVIDE MANIFOLD PRESSURE GAUGE ASSEMBLY.
 6. FIVE (5) PIPE DIAMETERS (MINIMUM).
 7. WHERE DRAIN PAN SPECIFIED, PIPE TO FLOOR DRAIN.

PUMP
3200A NOT TO SCALE

Project Engineer:	JEB
Drawn By:	JEB
Revisions:	
No.	Date
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No.	Date
No.	Date
No.	Date
No.	Date
No.	Date
No.	Date

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YORK COUNTY SCHOOL DISTRICT 3
ROCK HILL HIGH SCHOOL CHILLER REPLACEMENT
HVAC DETAILS

Project
Sheet Title

Buford Goff
& Associates, Inc.
Engineers & Planners
1331 Elmwood Ave.
Suite 200
Columbia, SC 29201
Phone: (803) 254 - 6302

Sheet Number:
M300
Date: 07.11.2024
Scale: As Noted
BGA PROJECT NUMBER: 24024
CONSTRUCTION DOCUMENTS

MECHANICAL SYMBOL LEGEND	
	PRESSURE REDUCING VALVE
	RELIEF VALVE
	CIRCUIT SETTER
	BUTTERFLY VALVE
	UNION
	FLOW METER
#	POUNDS (OR NUMBER)
	HEAT TRACED PIPE (W/CONNECTION PT.)
	ECCENTRIC REDUCER
	CONCENTRIC REDUCER
	FLANGE FITTING
	FLEXIBLE PIPE CONNECTION
	CONNECT NEW DUCT OR PIPE TO EXISTING
	TRIPLE DUTY VALVE
	GAUGE COCK
	PRESSURE GAUGE
	THERMOMETER
	CONTROL WIRING
	CONTROL WIRING
	FLOW SENSOR/SWITCH

S3950

MECHANICAL ABBREVIATIONS			
ABV	ABOVE	IN	INCHES
AFF	ABOVE FINISH FLOOR	MER	MECHANICAL EQUIPMENT ROOM
BACS	BUILDING AUTOMATION CONTROL SYSTEM	NO	NORMALLY OPEN
BHP	BRAKE HORSE POWER	NC	NORMALLY CLOSED
BOP	BOTTOM OF PIPE	OC	ON CENTER
CH-1	CHILLER NO.1	ODP	OPEN DRIP PROOF
CWR	CHILLED WATER RETURN	P-1	PUMP NO.1
CWS	CHILLED WATER SUPPLY	PD	PRESSURE DROP
EFF	EFFICIENCY	PH	PHASE
ELECT	ELECTRICAL	SF	SQUARE FOOT
EXT	EXTERNAL	UNO	UNLESS NOTES OTHERWISE
HP	HORSE POWER	V-1	VALVE No.1
HT-1	HEAT TAPE NO. 1	VFD	VARIABLE FREQUENCY DRIVE
		VEL	VELOCITY
		VOLT	VOLTAGE

S3956

AIR COOLED CHILLER SCHEDULE																								
CHILLER #	TONS	FANS		COMPRESSOR		OUTDOOR DB T	CHILLED WATER					MAXIMUM SIZE (c)			MAX WEIGHT #	EFFICIENCY (MBH/KW)				ELECTRICAL			MANUFACTURER AND MODEL	REMARKS
		FLA	NO	RLA	NO		GPM DESIGN	MIN	MAX PD(a)	ENT T	LVG T	L	W	H		COND. EER	LISTED NPLV	EER	IPLV	MAX MCA	MOCP	VOLT/PH		
CH-1	200	2.5	10	54/69	4/2	95	564	282	24.1	54	44	282	88	98	10,000	10.1	16.8	10.2	17.1	401	500	460/3	TRANE ACSA200	①②④⑤⑥⑦⑧
(a) FEET WG (b) GALLONS (c) FEET (d) NOT INCLUDING CHILLER																								
		① .0001 SCALE FACTOR		③ CHILLER SHALL BE ABLE TO OPERATE AT THIS MIN. FLOW OR LESS		⑤ SINGLE POINT CONNECTION EXCEPT FOR HEATING CIRCUITS		⑦ MAX. SOUND POWER LEVEL 99dBA																
		② WIDE AMBIENT TO -20°F		④ 454B REFRIGERANT		⑥ CIRCUIT BREAKER DISCONNECT		⑧ CHILLER CONTROL DISPLAY PANEL																

S3153

PUMP SCHEDULE														
PUMP #	LOCATION	SERVICE	TYPE	GPM	GPM MIN(b)	HEAD FT	RPM	MIN EFF	MAX. WEIGHT #	MAX HP		ELECT VOLT/PH	MANUFACTURER AND MODEL	REMARKS
										BHP(a)	HP			
P-1A	MECH RM	CHILLED WATER	BASE MOUNTED	282	282	85	1750	72	450	8.6	10	460/3	BELL AND GOSSETT e-1510 2EB	①
P-1B	MECH RM	CHILLED WATER	BASE MOUNTED	282	282	85	1750	72	450	8.6	10	460/3	BELL AND GOSSETT e-1510 2EB	①
(a) MAX BHP AT OPERATING CONDITIONS ① STARTER														
(b) PUMP MUST BE CAPABLE OF OPERATING AT THIS MINIMUM FLOW RATE OR LESS														

S3350

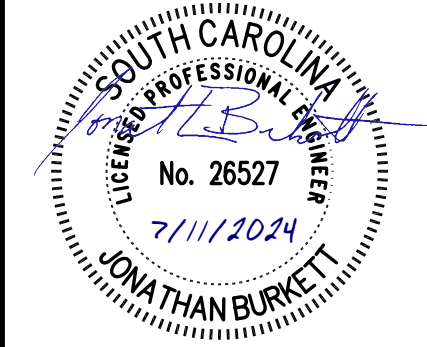
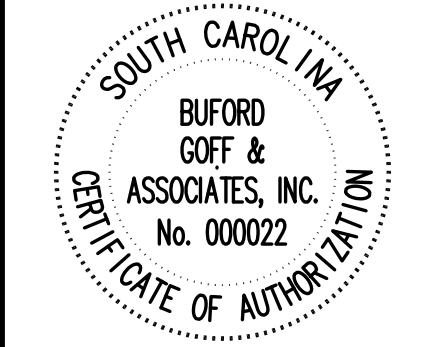
HEAT TAPE SCHEDULE								
HT #	SYSTEM	TYPE **	AVG. PIPE SIZE(b)	W/FT	PIPE LENGTH (a)	LENGTH MULT.	ELECT. WATTS*	VOLT/PH
HT #1	CHILLED WATER	FP	6	5	30	1.5	225	120/1
HT #2	CHILLED WATER	FP	6	5	30	1.5	225	120/1
* WATTAGE IS APPROXIMATE. INSTALLING CONTRACTOR SHALL COORDINATE EXACT WATTAGE WITH ELECTRICAL CONTRACTOR. ** FP - FREEZE PROTECTION TM - TEMPERATURE MAINTENANCE (a) FEET (b) INCHES								

4/01

S3652

Project Engineer:	JEB
Drawn By:	JEB
Revisions:	
No. _____	Date _____
No. _____	Date _____
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YORK COUNTY SCHOOL DISTRICT 3 ROCK HILL HIGH SCHOOL CHILLER REPLACEMENT	HVAC LEGENDS, NOTES, AND SCHEDULES
Project	Sheet Title

Buford Goff

& Associates, Inc.

Engineers & Planners

1331 Elmwood Ave.

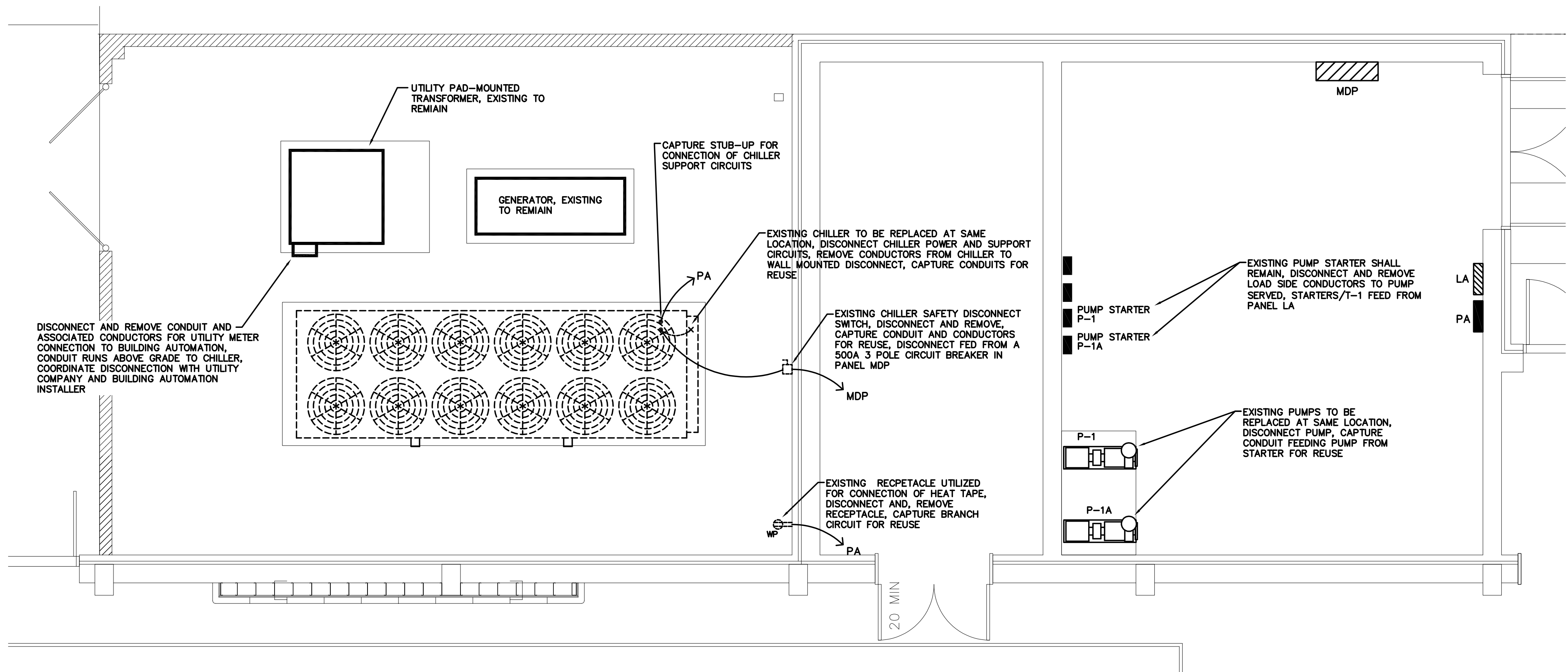
Suite 200

Columbia, SC 29201

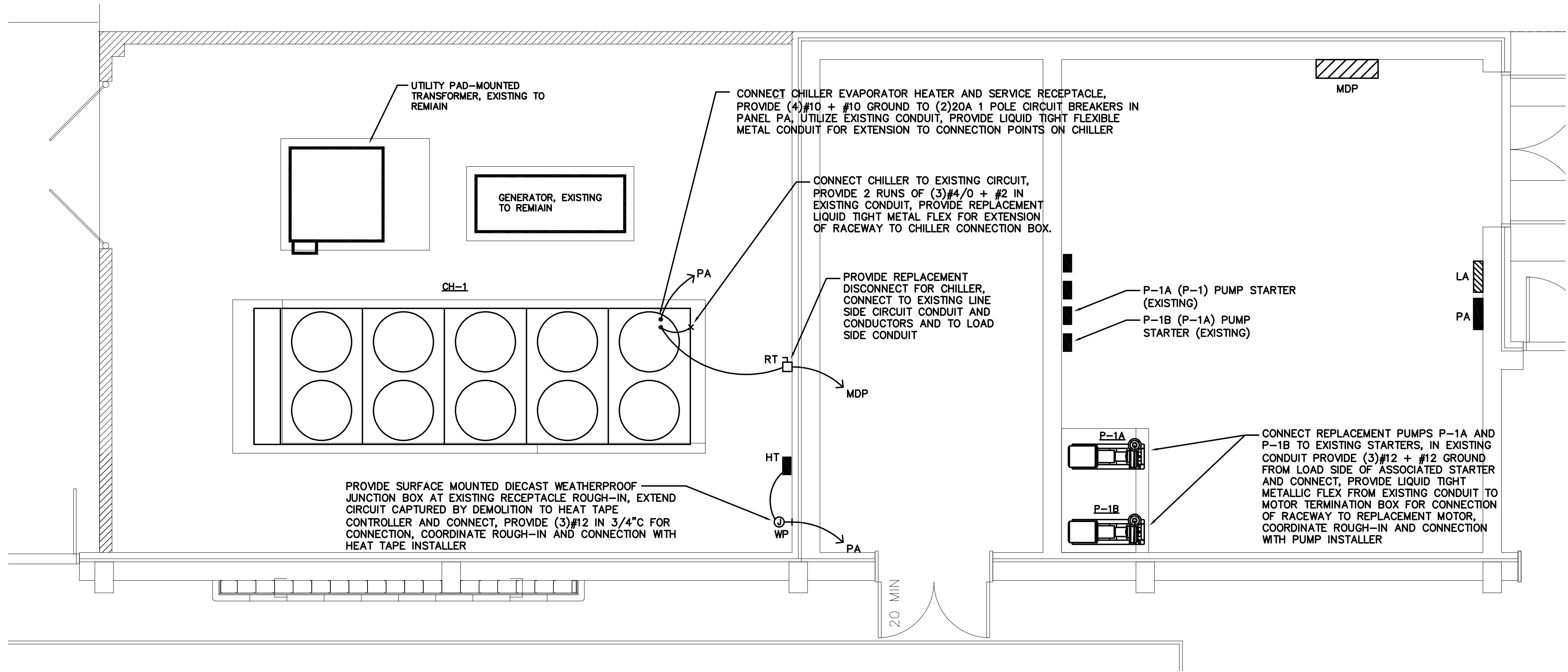
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M400

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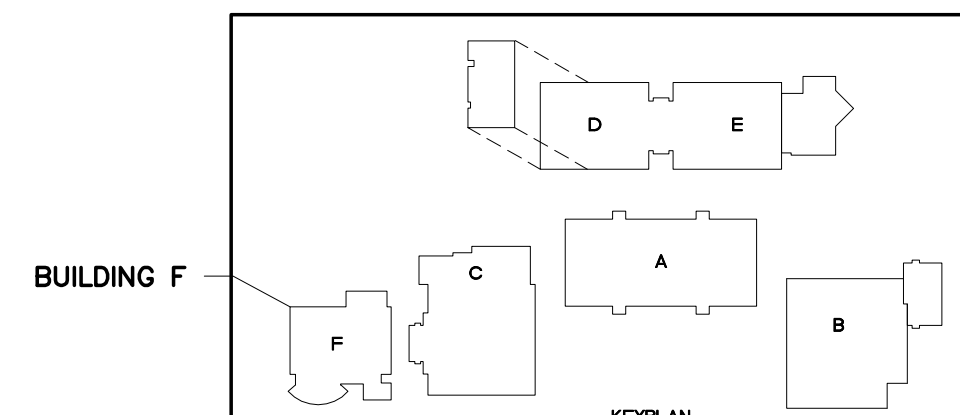
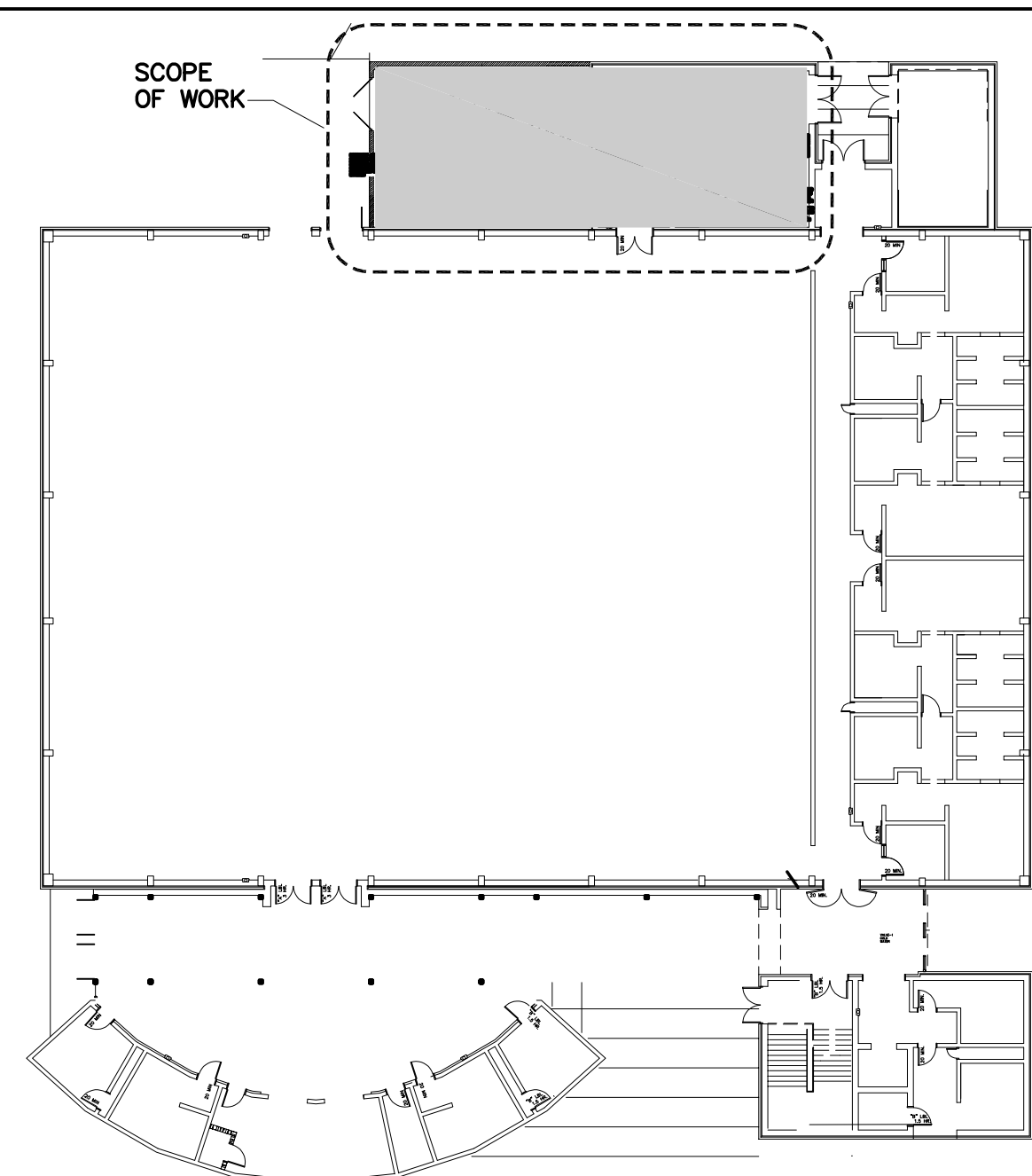
1 PARTIAL FLOOR PLAN - ELECTRICAL - DEMOLITION
SCALE: 1/4" = 1'-0"



2 PARTIAL FLOOR PLAN - ELECTRICAL - RENOVATION
SCALE: 1/4" = 1'-0"

ELECTRICAL SYMBOL SCHEDULE	
SYMBOL	DESCRIPTION
	ELECTRICAL PANELBOARD, 277Y480V
	ELECTRICAL PANELBOARD, 120Y208V
	FUSED SAFETY DISCONNECT SWITCH, SEE SPECIFICATION 26 2816
AFF	ABOVE FINISHED FLOOR
UNO	UNLESS NOTED OTHERWISE
C.	CONDUIT
E.C.	EMPTY CONDUIT
RT	RAINTIGHT, NEMA 3R UNO
WP	WEATHER PROOF
	KEYNOTE LABEL
	EQUIPMENT CONNECTION
	CONDUIT RUN CONCEALED IN WALL OR RUN ABOVE FINISHED CEILING, TIOK MARKS INDICATE LINE VOLTAGE CONDUCTORS, SEE PANELBOARD SCHEDULES.

BUILDING F KEY PLAN



GENERAL DEMOLITION NOTES

- Demolition notes are based on casual field observations and existing record documents. Report discrepancies to architect/engineer before disturbing existing installation. Refer to section 26 specification "ELECTRICAL DEMOLITION" and GC series sheets for additional requirements.
- Verify field measurements and circuiting arrangements prior to commencement of work.
- Coordinate outages of building electrical systems with owner.
- Provide temporary wiring and connections to maintain existing building electrical systems affected by demolition and renovation work.
- Remove abandoned wiring and equipment and repair finishes to match adjacent finishes.
- Reconnect remaining existing building electrical systems interrupted by demolition.
- Remove exposed abandoned conduit, including abandoned conduit above accessible ceiling finishes. Cut conduit flush with wall and floors, patch finishes and firestop.
- Portions of the existing conduit systems may be reused provided all of the following conditions are met:
 - The existing equipment, conduit and/or wiring systems are installed in accordance with the requirements for new materials listed in the specifications, and as indicated on the plans.
 - Any relocation of existing feeders and conduits to accommodate new construction (i.e., ductwork, new ceiling heights, etc.) which at the convenience of the contractor are being reused shall be relocated as necessary without additional cost to the owner.
- Relocate existing electrical system conduit raceways as required to facilitate installation of systems installed by other divisions of work. Field coordinate relocation and extension of systems.

SYSTEM SPECIFIC DEMOLITION NOTES

- EXISTING ELECTRICAL DISTRIBUTION SYSTEM: Existing electrical distribution equipment shall remain unless noted otherwise. Disable system only to make switchovers and connections. Minimize outage duration. Make temporary connections to maintain service in areas adjacent to work area. See Section 260501 - Electrical Coordination and 260502 - Electrical Demolition for other requirements.
- EXISTING LIGHTING: All existing lighting throughout the areas affected by renovation work shall remain unless noted otherwise. Protect fixtures during demolition work, temporarily support fixtures from structure above and re-install in replacement ceiling at original position.
- EXISTING FIRE ALARM SYSTEM: The existing fire alarm system shall remain.
- EXISTING EQUIPMENT CONNECTIONS: Unless noted otherwise, remove existing electrical service to equipment removed or disconnected as part of this work.

Project Engineer:
WGW

Drawn By:
WGW

Revisions:

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No.	Date
No.	Date
No.	Date
No.	Date
No.	Date

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YORK COUNTY SCHOOL DISTRICT 3
ROCK HILL HIGH SCHOOL CHILLER REPLACEMENT

ELECTRICAL DEMOLITION AND RENOVATION

Project
Sheet Title

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