



CENTRAL ACC CENTER ARKANSAS DEPARTMENT OF CORRECTION CHILLER REPLACEMENT 4823 WEST 7TH STREET

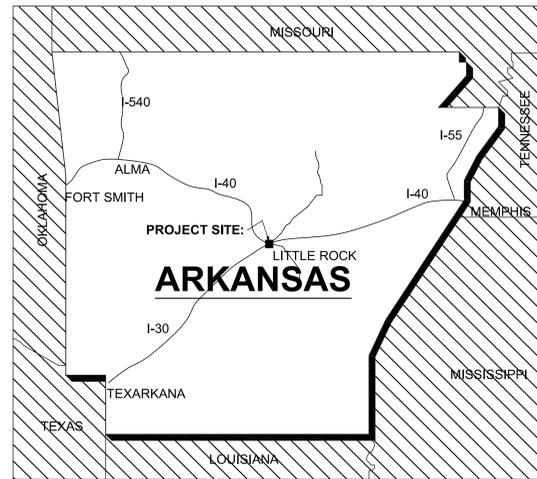
LITTLE ROCK, ARKANSAS

DBA NO. 4802603

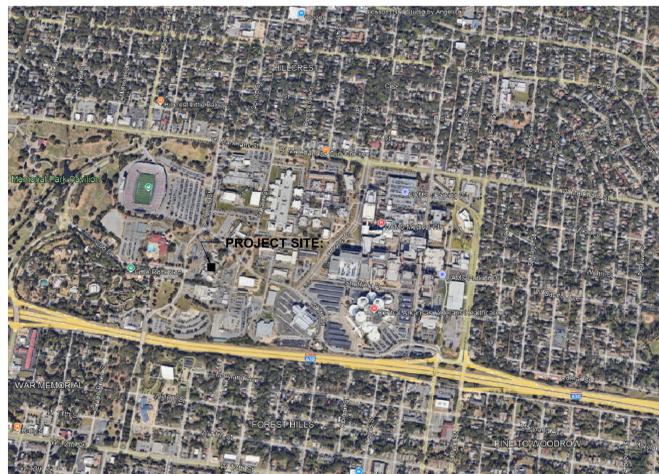
WD&D JOB NO. 25-072

ISSUE SET

DECEMBER 19, 2025



VICINITY MAP



ENLARGED VICINITY MAP

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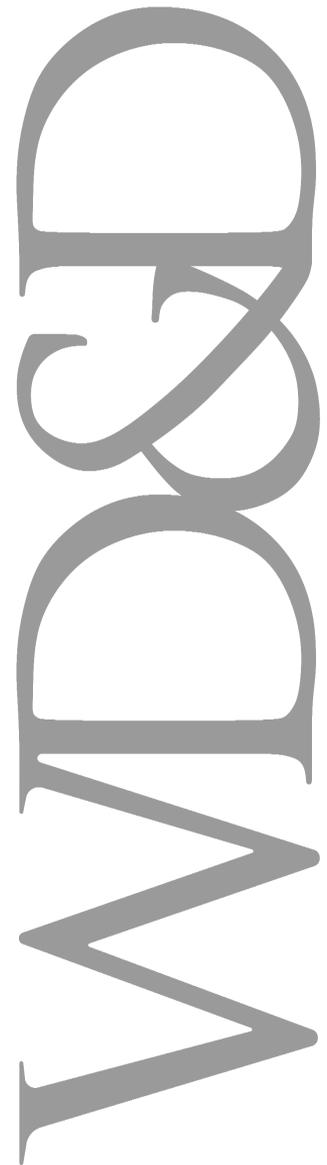
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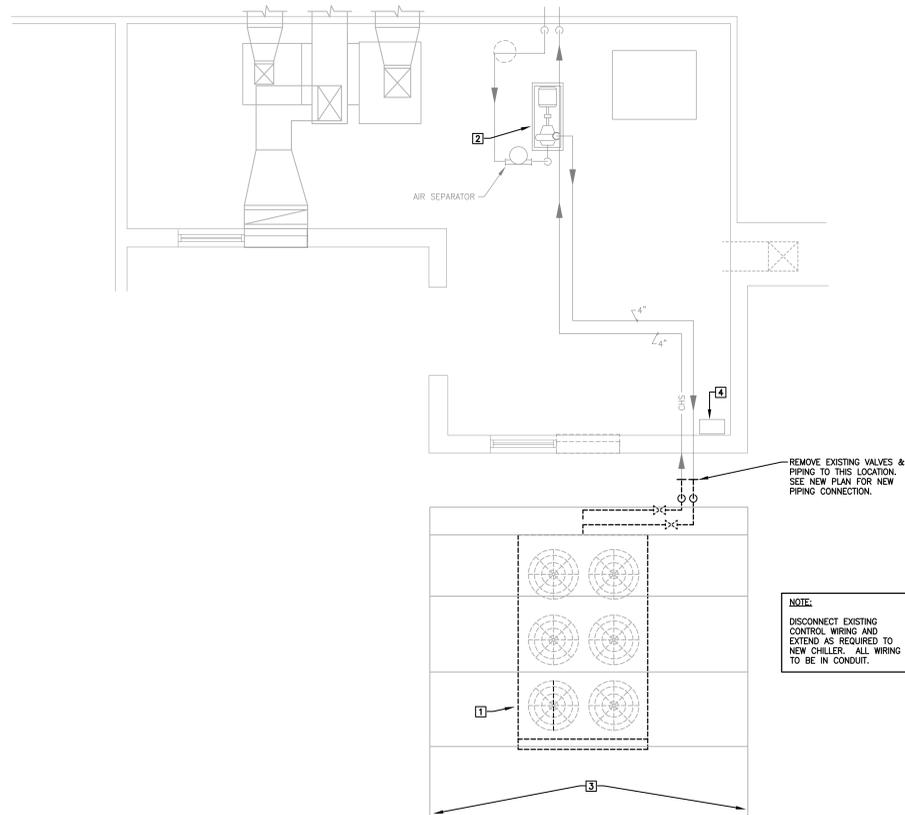
WITTENBERG, DELONY & DAVIDSON, INC.
 ARCHITECTS - PLANNERS
 5050 NORTHSORE LANE
 NORTH LITTLE ROCK, ARKANSAS 72118
 PH. # (501) 376-6681
 FAX # (501) 376-0231

PETTIT & PETTIT CONSULTING ENG. INC.
 MECHANICAL - ELECTRICAL ENGINEERS
 HERITAGE WEST BUILDING SUITE 400
 201 EAST MARKHAM STREET
 LITTLE ROCK, ARKANSAS 72201
 PH. # (501) 374-3731
 FAX # (501) 374-1820



WITTENBERG, DELONY & DAVIDSON, INC.
 ARCHITECTS - INTERIOR DESIGN-PLANNERS
 400 WEST CAPITOL, SUITE 1000
 LITTLE ROCK, ARKANSAS 72201-4857
 PH. # (501) 376-6681
 FAX # (501) 376-0231
 I HEREBY CERTIFY THAT THESE PLANS AND SPECIFICATIONS HAVE BEEN PREPARED BY ME, OR UNDER MY SUPERVISION.
 I FURTHER CERTIFY THAT TO THE BEST OF MY KNOWLEDGE THESE PLANS AND SPECIFICATIONS ARE AS REQUIRED BY LAW AND IN COMPLIANCE WITH THE ARKANSAS FIRE PREVENTION CODE FOR THE STATE OF ARKANSAS.
Walter Sprink
 SIGNATURE



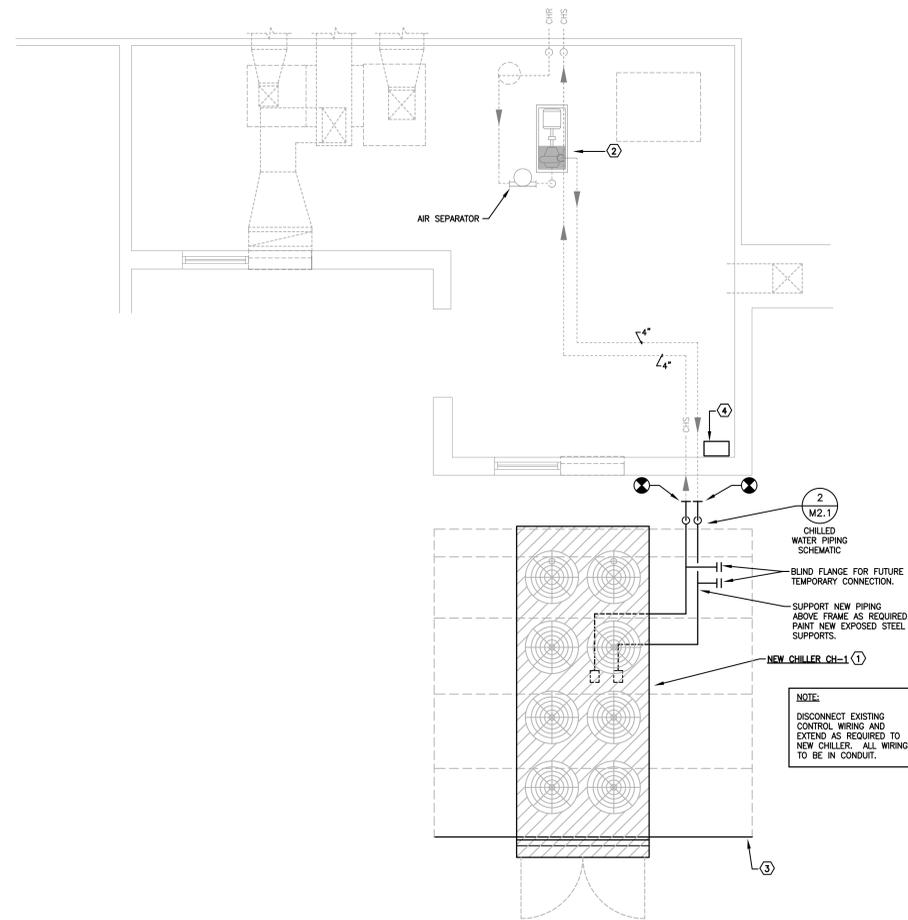


DEMOLITION PLAN - MECHANICAL

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

- GENERAL NOTES:**
1. ITEMS SHOWN DASHED ARE EXISTING TO BE REMOVED.
 2. ITEMS SHOWN SOLID AND SHADED ARE EXISTING TO REMAIN.
 3. AT ALL CONNECTIONS TO EXISTING PIPING, THE INSULATION SHALL BE REPAIRED AND NEW PROVIDED AS REQUIRED TO PROVIDE CONTINUOUS COVERAGE.
 4. FIELD VERIFY EXACT SIZE AND LOCATION OF ALL EXISTING ITEMS SHOWN ON THIS PLAN THAT ARE TO BE CONNECTED TO.

- DEMOLITION KEYED NOTES**
- 1] REMOVE EXISTING AIR COOLED CHILLER.
 - 2] EXISTING CHILLED WATER PUMP TO REMAIN.
 - 3] NEW STEEL BEAM TO BE INSTALLED WHERE PREVIOUS BEAM HAS BEEN REMOVED. EXISTING OUTER BEAM SIZE IS 12" TALL x 5 1/2" WIDE. VERIFY EXISTING BOLT PATTERN/SIZE IN EXISTING SIDE BEAM. SEE NEW PLAN.
 - 4] EXISTING HEAT TRACE CONTROLLER IN MECHANICAL ROOM. REMOVE AND REPLACE HEAT TRACE WIRING AS REQUIRED TO INSTALL NEW ON EXTERIOR PIPING.

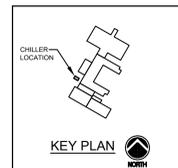


NEW PLAN - MECHANICAL

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

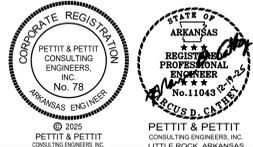
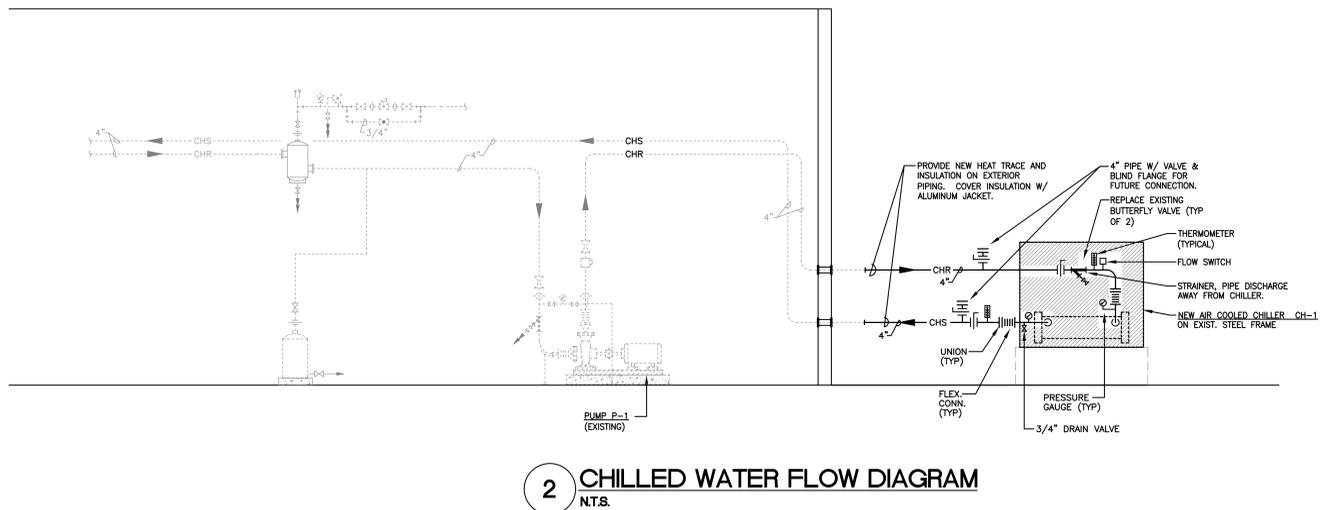
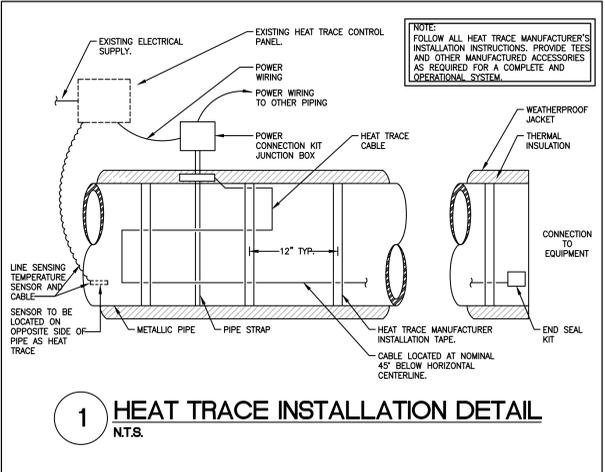
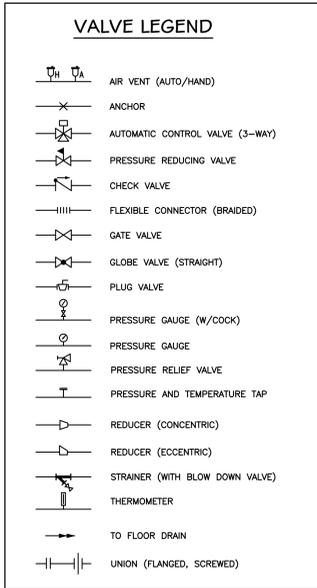
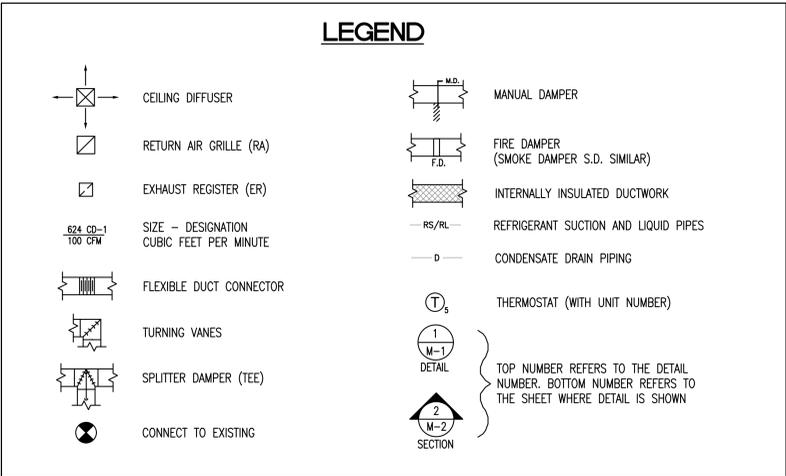
- PLAN GENERAL NOTES:**
1. ITEMS SHOWN DASHED ON THIS PLAN ARE EXISTING ITEMS TO REMAIN UNLESS NOTED OTHERWISE.
 2. FIELD VERIFY EXACT SIZE AND LOCATION OF ALL EXISTING ITEMS SHOWN ON THIS PLAN THAT ARE TO BE CONNECTED TO.

- KEYED NOTES**
- 1] INSTALL NEW CHILLER ON EXISTING SUPPORT FRAME.
 - 2] EXISTING CHILLED WATER PUMP. PROVIDE AND INSTALL INSULATED HOUSING OVER PUMP IMPELLER.
 - 3] PROVIDE NEW 8" TALL x 5 1/2" WIDE STEEL BEAM TO MATCH DEPTH OF EXISTING INTERIOR BEAMS. PROVIDE AND INSTALL WELDED PLATE WITH BOLT PATTERN TO MATCH BOLT HOLES IN EXISTING PERIMETER BEAM OR WELD BEAM TO EXISTING. PROVIDE ANY HARDWARE REQUIRED NEEDED TO ATTACH TO EXISTING. ANY NEW OR UNFINISHED STEEL SHALL BE PAINTED TO MATCH EXISTING.
 - 4] EXISTING HEAT TRACE CONTROL PANEL. CONNECT NEW HEAT TRACE WIRING AS REQUIRED FOR ALL EXTERIOR CHILLED WATER PIPING.

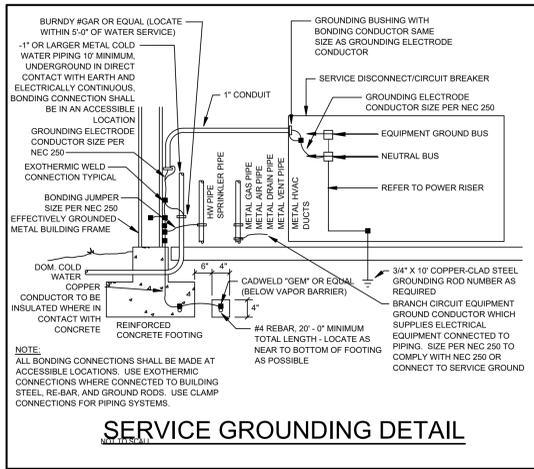


CHILLER SCHEDULE (AIR COOLED)														NOTE: ELECTRICAL PROVIDE SEPARATE 120V POWER CIRCUIT FOR FREEZE PROTECTION IN UNIT.										
DESIG.	MFR/MDL	TYPE	TONS	AMBIENT	EVAPORATOR					ELECTRICAL DATA				CONDENSER FAN					REMARKS					
					GPM	GPM MIN.	P.D.	EWT	LWT	QTY.	HP	RLA / LRA	CIRCUITS	QTY.	HP	FLA	DRIVE	EER		PLV/P	VOLT	PHASE	MCA	FUSE
CH-1	TRANE / ACSA 160	AIR COOLED SCROLL	141.0 160 NOM.	95'	240	197.5	5.1'	56'	42'	4	-	(4)150 RLA (4)761 LRA	2	8	-	2.7 (EA)	DIRECT	10.16	17.5	208	3ø	689	800	MINTO PADS, EVAPORATOR FREEZE PROTECTION, FLOW SWITCH, SUCTION LINE INSULATION, SUCTION SERVICE VALVES, NON-FUSED DISCONNECT, ACROSS THE LINE STARTER, MICRO CHANNEL COIL, SINGLE POINT POWER, COIL TRIM PANELS, GRILLES, UPPER HALL GUARDS, VARIABLE CONDENSER FANS (1 PER REFRIGERANT CIRCUIT).

- GENERAL NOTES**
- DUE TO THE SMALL SCALE OF THIS DRAWING, IT IS NOT POSSIBLE TO INDICATE ALL OFFSETS, FITTINGS, AND ACCESSORIES WHICH MAY BE REQUIRED. THE CONTRACTOR SHALL INVESTIGATE THE STRUCTURAL AND FINISH CONDITIONS AFFECTING THE WORK AND SHALL COORDINATE AND ARRANGE HIS WORK ACCORDINGLY.
 - ALL PIPING, DUCTWORK, AND EQUIPMENT SHALL BE ISOLATED AND/OR RESTRAINED IN ACCORDANCE WITH THE SEISMIC REQUIREMENTS OF THIS ZONE.
 - PROVIDE SLEEVES THROUGH WALLS AND FLOORS. SEAL EXCESS OPENING WITH WATER-PROOF SEALANT. COORDINATE LOCATIONS AND SIZES OF SLEEVES WITH GENERAL CONTRACTOR. SLEEVES SHALL PROVIDE A MAXIMUM OF 1" CLEARANCE BETWEEN DUCT OR PIPE AND SLEEVE. SEAL PENETRATION IN FIRE/SMOKE RATED WALLS AND FLOOR WITH AN APPROVED FIRE/SMOKE BLOCK SEALANT.
 - INSULATE ALL PIPING, DUCTS, AND EQUIPMENT, WHETHER INDICATED OR NOT, WHICH ARE SUBJECT TO FREEZING OR CONDENSATION FORMATION.
 - ARRANGE PIPING TO ALLOW FOR PROPER SERVICE & ACCESS TO EQUIPMENT. INSTALL UNIONS AND ISOLATION VALVES TO ALLOW FOR REMOVAL OF EQUIPMENT WITHOUT DISTURBING MAINS.
 - PROVIDE ADDITIONAL DRAIN VALVES AND AIR VENTS AS REQUIRED TO PROPERLY DRAIN AND VENT ENTIRE PIPING SYSTEM.
 - PROVIDE WELLS FOR TEMPERATURE SENSORS FURNISHED WITH EQUIPMENT OR AS REQUIRED FOR TEMPERATURE CONTROL SYSTEM. COORDINATE REQUIREMENTS WITH CONTROLS CONTRACTOR.
 - COORDINATE EQUIPMENT ELECTRICAL REQUIREMENTS WITH ELECTRICAL CONTRACTOR.
 - COORDINATE MAKE-UP WATER AND GAS REQUIREMENTS WITH PLUMBING CONTRACTOR.
 - PRIOR TO THE START OF ANY WORK UNDER THIS CONTRACT, THE CONTRACTOR SHALL JOB-SITE VERIFY SIZE, ELEVATION, LOCATION, ETC. OF ANY EXISTING PIPING NOTED, SHOWN OR IMPLIED TO WHICH NEW PIPING IS RELATED OR CONNECTED. NOTIFY THE ARCHITECT OF ANY DISCREPANCIES.
 - TO MINIMIZE DISRUPTION OF THE OWNER'S ON-GOING DAILY ACTIVITIES WITHIN THE EXISTING BUILDING, THE CONTRACTOR SHALL SCHEDULE HIS WORK AS REQUIRED TO MAINTAIN EXISTING SERVICES DURING CONSTRUCTION AND CLOSELY COORDINATE ANY OUTAGES WITH THE OWNER'S REQUIREMENTS.
 - ALL EQUIPMENT WHICH IS REMOVED SHALL BE COME THE PROPERTY OF THE CONTRACTOR AND SHALL BE REMOVED FROM THE JOB SITE BY THE CONTRACTOR.



NO.	DATE	DESCRIPTION
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12/19/25		
ISSUE		



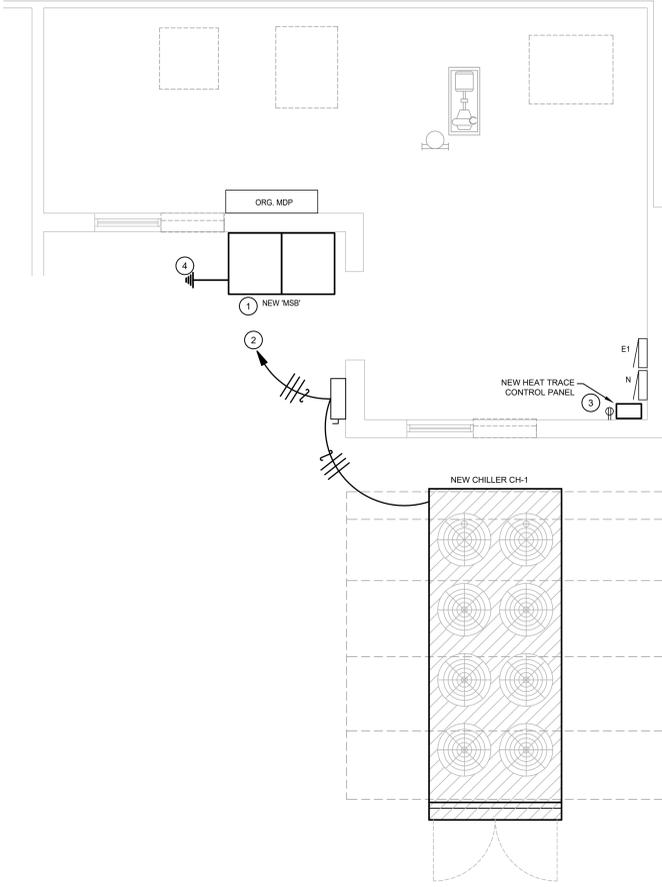
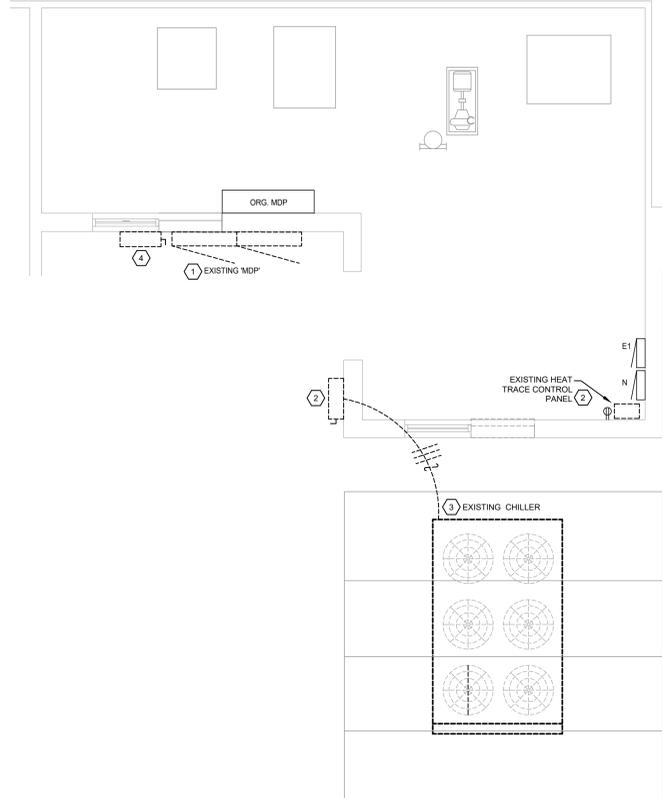
PANELBOARD: NEW 'MSB'		VOLTAGE: 120/208V, 3Ø, 4W	COPPER BUS RATING: 1600A	MAIN: 1600A	TOTAL CONNECTED VA: EXISTING
LOCATION: EXTERIOR	MFG. AND TYPE: NEMA 3R	SQUARE-D QED	EQUIP. GRD. BUS: YES	ISOL. GRD. BUS: NO	TOTAL A Ø: EXISTING
MOUNTING: SURFACE	ENCLOSURE: NEMA 3R	MINIMUM A.I.C. RATING: 35K	FED. FROM: SERVICE DISCONNECT		TOTAL B Ø: EXISTING
					TOTAL C Ø: EXISTING
CIRCUIT NUMBER	LOAD NAME	BREAKER	A	B	C
1	AC-1 - EXISTING CIRCUIT/VERIFY FUSE SIZE	400AF/3P	-	-	-
2	AC-2 - EXISTING CIRCUIT/VERIFY FUSE SIZE	400AF/3P	-	-	-
3	E.G.M.D.P. - EXISTING CIRCUIT/VERIFY FUSE SIZE	400AF/3P	-	-	-
4	PANEL E1 - EXISTING CIRCUIT/VERIFY FUSE SIZE	100AF/3P	-	-	-
5	PANEL N - EXISTING CIRCUIT/VERIFY FUSE SIZE	100AF/3P	-	-	-
6	PANEL K0 - EXISTING CIRCUIT/VERIFY FUSE SIZE	400AF/3P	-	-	-
7	LAUNDRY - EXISTING CIRCUIT/VERIFY FUSE SIZE	200AF/3P	-	-	-
8	A WING UPPER - EXISTING CIRCUIT/VERIFY FUSE SIZE	100AF/3P	-	-	-
9	B WING LOWER - EXISTING CIRCUIT/VERIFY FUSE SIZE	100AF/3P	-	-	-
10	A WING LOWER - EXISTING CIRCUIT/VERIFY FUSE SIZE	100AF/3P	-	-	-
11	B WING UPPER - EXISTING CIRCUIT/VERIFY FUSE SIZE	100A/3P	-	-	-
12	NEW CHILLER	800A/3P	82,741	82,741	82,741
13	'SPD' - SURGE PROTECTION DEVICE	100A/3P	-	-	-
14	22A SPACE WITH BUS				
15					
16					

NOTES:
 THE CONTRACTOR MUST VERIFY ALL FUSE SIZES PRIOR TO PURCHASING THE NEW PANEL. ONLY FRAME SIZES HAVE BEEN PROVIDED.

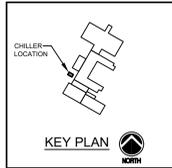
SYMBOL LEGEND	
	DUPLEX RECEPTACLE AT 18" A.F.F.
	BRANCH CIRCUIT HOMERUN HOT-NEUTRAL-GROUND PANEL AND CIRCUIT NUMBER INDICATED ON PLAN
	PANELBOARD
	DISCONNECT SWITCH

DEMOLITION NOTES	
1.	THE ELECTRICAL CONTRACTOR SHALL BE REQUIRED TO VISIT THE SITE TO FAMILIARIZE HIMSELF WITH ALL EXISTING CONDITIONS PRIOR TO BID.
2.	THE ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR ALL ELECTRICAL DEMOLITION INDICATED ON THESE DRAWINGS. ALL WIRING DEVICES, LIGHT FIXTURES, WIRE, & CONDUIT THAT IS TO BE REMOVED SHALL BE STORED AS DIRECTED BY THE OWNER OR RELOCATED AS SHOWN ON THE NEW FLOOR PLAN. APPROPRIATE MEASURES SHALL BE TAKEN TO ASSURE CONTINUITY OF EXISTING CIRCUITS WHERE REQUIRED, AND ALL OUTAGES WHICH MAY RESULT SHALL BE COORDINATED WITH THE OWNER PRIOR TO THE WORK.
3.	CONTRACTOR SHALL VERIFY ELECTRICAL ON ALL EXISTING BRANCH CIRCUITS NOTED TO BE RE-USED.
4.	DASHED LINES INDICATED EXISTING EQUIPMENT, AND DEVICES, ETC., TO BE DEMOLISHED UNLESS OTHERWISE NOTED.
5.	HALFTONE LINES INDICATE EXISTING EQUIPMENT, AND DEVICES, ETC., TO REMAIN UNLESS OTHERWISE NOTED.
6.	FIELD VERIFY DEVICES AND EQUIPMENT. ALL DEVICES MAY NOT BE SHOWN.

GENERAL NOTES	
1.	ALL WORK SHALL COMPLY WITH THE LATEST EDITION OF THE NATIONAL ELECTRICAL CODE.
2.	CIRCUITS OF DIFFERENT PHASES MAY SHARE EQUIPMENT GROUND. EQUIPMENT GROUND CONDUCTOR SIZE SHALL NOT BE LESS THAN #12 AWG OR AS INDICATED ON THE DRAWINGS.
3.	ALL CONDUCTORS #12 AND SMALLER SHALL BE SOLID COPPER THW, THHN, THWN, AND ALL CONDUCTORS #8 AND LARGER SHALL BE STRANDED COPPER USING SOLID TIE LUGS AT TERMINALS.
4.	MINIMUM WIRE SIZE SHALL BE #12 AWG UNLESS OTHERWISE NOTED.
5.	PULL ALL THE CONDUCTORS THROUGH RACEWAY AT THE SAME TIME.
6.	MINIMUM CONDUIT SIZE SHALL BE 3/4" UNLESS OTHERWISE NOTED. SEE SPECS FOR CONDUIT REQUIREMENTS. ALL CONDUIT SHALL BE CONCEALED UNLESS OTHERWISE NOTED.
7.	6" MAXIMUM LENGTH ON FLEXIBLE CONDUIT.
8.	USE COMPRESSION FITTINGS ON CONDUIT. SET SCREW FITTINGS ARE NOT ALLOWED.
9.	PROVIDE PULL STRING AND PROTECTIVE BUSHINGS IN ALL SPARE CONDUITS.
10.	LABEL ALL CIRCUITS ON PANEL SCHEDULES.
11.	TURN ALL UNUSED CIRCUIT BREAKERS TO OFF POSITION.
12.	FIRE PROOF ALL PENETRATIONS MADE THROUGH FIRE RATED WALLS.
13.	ALL DEVICES SHALL BE RATED 20 AMP MINIMUM. VERIFY COLOR WITH ARCHITECT.
14.	CONNECT DEVICES BY WRAPPING WIRE AROUND SCREW TERMINAL. IN A CLOCKWISE DIRECTION AND TIGHTEN SCREW. BACK-CONNECTED SPRING DEVICES ARE NOT ALLOWED.
15.	ALL BOXES SHALL BE INDEPENDENTLY SUPPORTED TO THE BUILDING STRUCTURE.
16.	THE SPECIFICATIONS ARE AS SHOWN ON THE CONTRACTOR AS THE DRAWINGS. THE CONTRACTOR SHALL READ THE SPECIFICATIONS AND SHALL INCLUDE ALL ITEMS REQUIRED BY THE SPECIFICATIONS BEFORE SUBMITTING A BID.
17.	ELECTRICAL CONTRACTOR SHALL CLOSELY COORDINATE WITH MECHANICAL AND PLUMBING CONTRACTORS FOR EXACT LOCATION OF HVAC AND PLUMBING EQUIPMENT.
18.	ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR PROPER SIZING OF ALL MOTOR OVERLOAD DEVICES (HEATERS) IN STARTERS BASED ON ACTUAL NAMEPLATE RATINGS ON THE MOTOR BEING INSTALLED.
19.	PROVIDE TAMPER RESISTANT DEVICES AS REQUIRED BY CODE.
20.	NEW CIRCUIT BREAKERS INSTALLED IN EXISTING PANELS SHALL MATCH EXISTING PANEL MANUFACTURER AND AIC RATING. UPDATE PANELBOARD CIRCUIT DIRECTORIES TO REFLECT CHANGES.



KEYED NOTES	
1.	REPLACE THE EXISTING MDP WITH A NEW 1600A PANEL. VERIFY ALL OF THE EXISTING CIRCUITS AND FUSE SIZES. PROVIDE NEW BREAKERS FOR ALL OF THE EXISTING CIRCUITS. EXTEND THE WIRE AND CONDUIT AS NEEDED. PROVIDE NEW FEEDERS FROM THE NEW PANEL TO THE EXISTING TRANSFORMER. THE TRANSFORMER IS LOCATED APPROXIMATELY 120' FROM NEW 'MSB'. FIELD VERIFY. USE 4 SETS OF 60'S. PROVIDE 4" HOUSEKEEPING PAD FOR NEW 'MSB'. THE CONTRACTOR SHALL SAW CUT THE SIDEWALK AND DRIVE TO THE TRANSFORMER. THE CONCRETE AND DRIVE SHALL BE PATCHED AND REPAIR TO MATCH EXISTING CONDITIONS. ALL CONCRETE SHALL BE PINNED TO THE EXISTING CONCRETE. THE ASPHALT SHALL BE COMPACTED TO ELIMINATE ANY DIPS. THE CONTRACTOR SHALL COORDINATE ALL INSTALLATION REQUIREMENTS WITH ENTERGY AND PAY ALL FEES.
2.	PROVIDE AND INSTALL A NEW 800A BREAKER (SEE PANEL SCHEDULE) AND 2 SETS OF 3-500Kv.in. 1-1/2" IN 3-1/2" C. TO CONNECT THE NEW CHILLER. DISCONNECT WILL BE PROVIDED BY DIVISION 23HVAC.
3.	PROVIDE AND INSTALL A NEW 30A/1P, NF, HD, NEMA 1 DISCONNECT FOR THE HEAT TRACING. CONNECT THE CIRCUIT TO A SPARE IN PANEL N. PROVIDE A NEW 20A BREAKER AS NEEDED. LABEL THE CIRCUIT IN THE PANEL.
4.	SEE GROUNDING DETAIL.



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

NEW PLAN - ELECTRICAL
SCALE: 1/4" = 1'-0"

CORPORATE REGISTRATION
 PETTIT & PETTIT
 CONSULTING
 ENGINEERS,
 INC.
 No. 78
 ARKANSAS ENGINEER

STATE OF ARKANSAS
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 PROFESSIONAL
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 No. 12883
 EXP. 12-31-25
 DAVID J. PETTIT

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