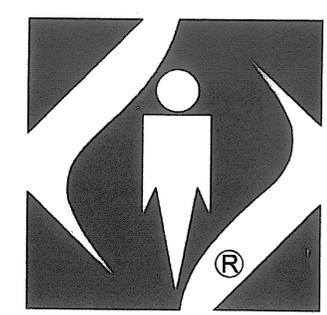


Kilgore

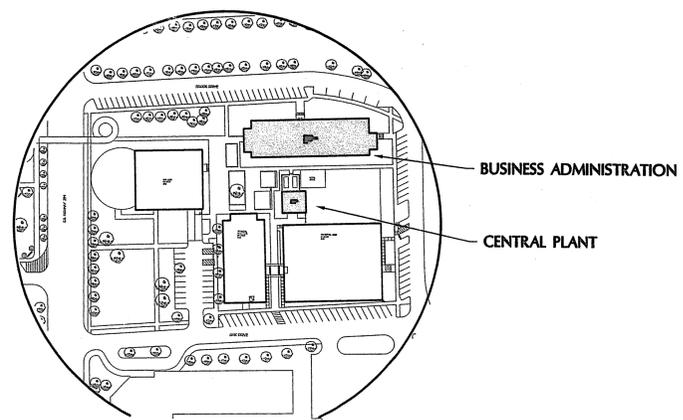
BUSINESS ADMINISTRATION BUILDING HVAC RENOVATION

AT



KILGORE COLLEGE

PURTLE & ASSOCIATES CONSULTING ENGINEERS
701 TEXAS ST. - SHREVEPORT, LOUISIANA 318-425-4500
P+A NO. 5080



VICINITY MAP
KILGORE COLLEGE

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MD2	CENTRAL PLANT FLOOR PLAN - MECHANICAL DEMOLITION
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E3	CENTRAL PLANT FLOOR PLAN - ELECTRICAL
E4	ELECTRICAL SCHEDULES & DETAILS

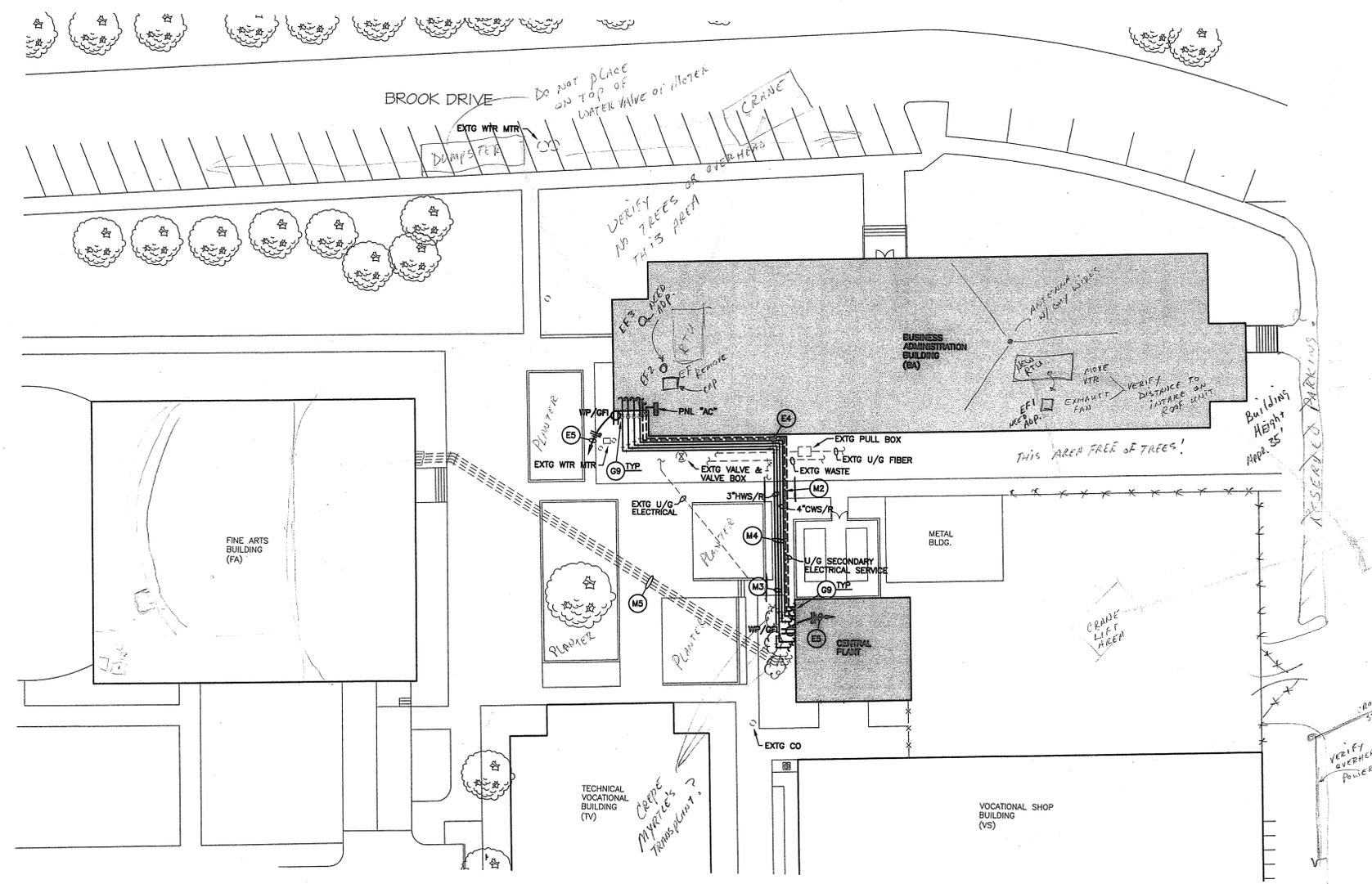
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BUSINESS ADMINISTRATION BUILDING
HVAC RENOVATION
 AT
KILGORE COLLEGE
 WILCOX, TEXAS



SITE PLAN - MECHANICAL AND ELECTRICAL

SCALE: 1"=20'

MECHANICAL NOTES:

- EXISTING TO REMAIN
- NEW WORK
- M1 CONTRACTOR SHALL FIELD VERIFY EXACT SIZE, LOCATION, DEPTH, ETC. OF ALL UNDERGROUND UTILITIES PRIOR TO TRENCHING OR EXCAVATION.
- M2 BREAKOUT PORTION OF EXTG SIDEWALK TO ACCOMMODATE NEW U/G HYDRONIC PIPING. COORDINATE EXACT ROUTING OF U/G PIPING WITH EXTG LANDSCAPING, PLANTERS, SIDEWALK, ETC. SAWCUT SIDEWALK OR REMOVE CONCRETE BETWEEN EXPANSION JOINTS. REPLACE CONCRETE AND FINISH TO MATCH EXTG.
- M3 REMOVE EXTG 3 1/2" PIPE FROM CENTRAL PLANT TO BA BLDG.
- M4 INSTALL NEW 4"CWS/R AND 3"HWS/R FROM CENTRAL PLANT TO BA BLDG. REUSE EXTG OPENINGS IN OUTSIDE WALL FOR HWS/R.
- M5 EXTG 3"CWS/R AND 3"HWS/R TO FA BLDG TO BE REUSED. VERIFY EXACT LOCATION AND ROUTING OF EXTG PIPING. FLUSH PIPE, CLEAN AND PRESSURE TEST TO CONFIRM INTEGRITY.

ELECTRICAL NOTES:

- EXISTING TO REMAIN
- NEW WORK
- E1 COORDINATE U/G CONDUIT ROUTE W/EXTG SIDEWALKS, LANDSCAPE, EXTG AND NEW UNDERGROUND UTILITY SERVICES, ETC. JACK AND BORE OR BREAKOUT EXTG HARD SURFACES; PATCH TO MATCH EXTG.
- E2 RISE LOW ON THE EXTERIOR WALL. ELBOW THRU WALL TO NEW PANEL. PAINT EXPOSED CONDUIT TO MATCH EXTG. SEAL PENETRATIONS. COORDINATE WITH NEW CHILLER PIPING ROUTE.
- E3 COORDINATE CONDUIT ROUTE IN CENTRAL PLANT W/EXTG. FIELD VERIFY EXACT REQUIREMENTS PRIOR TO BID.
- E4 PROVIDE 3"PVCC FOR FUTURE USE AND 1"PVCC FOR TEMPERATURE CONTROLS FROM THE CENTRAL PLANT TO BUSINESS ADMINISTRATION.
- E5 PROVIDE BRANCH CIRCUIT, DISCONNECT, CONDUIT AND CONDUCTORS FOR HEAT TAPE. EXTEND AND CONNECT TO NEAREST 120V BRANCH CIRCUIT. COORDINATE EXACT REQUIREMENTS WITH MECH CONTRACTOR.

GENERAL NOTES:

- G1 ALL SITE WORK IS TO BE COORDINATED WITH THE OWNER'S REPRESENTATIVE FOR SAFETY, ACCESS AND SEQUENCE.
- G2 COORDINATE WORK NOT TO DISTURB EXTG SITE ITEMS TO REMAIN. FIELD VERIFY EXTG CONDITIONS.
- G3 CONTRACTOR TO CONFINE ALL CONSTRUCTION AND STORAGE OF MATERIALS TO AREA'S DESIGNATED. COORDINATE WITH OWNER'S REPRESENTATIVE.
- G4 ANY SITE REQUIRED SECURITY FENCING SHALL BE COORDINATED BY THE CONTRACTOR WITH THE OWNER'S REPRESENTATIVE.
- G5 COORDINATE LOCATION OF MATERIAL SITE STORAGE AND WORKER PARKING WITH THE OWNER'S REPRESENTATIVE.
- G6 THE STAGING OF THE START OF CONSTRUCTION AND INSTALLATION OF NEW UTILITIES MUST BE CAREFULLY COORDINATED WITH THE OWNER AND OWNER'S REPRESENTATIVE TO MINIMIZE UTILITY SERVICE DISRUPTION.
- G7 ALL DISTURBED GRADING SHALL BE REPLACED TO MATCH EXTG. RE-SOD TO MATCH EXTG.
- G8 ALL EXTG SIDEWALKS TO BE REMOVED FOR INSTALLATION OF U/G UTILITIES SHALL BE REMOVED BACK TO NEAREST JOINT AND REPLACED TO MATCH EXTG.
- G9 CHIP OUT EXTG EXTERIOR FACE BRICK. CORE DRILL EXTG MASONRY. SLEEVE PIPE PENETRATION W/FLANGED SLEEVE. CAULK SLEEVE PENETRATION AND REINSTALL EXTG EXTERIOR FACE BRICK. SLOPE PIPING THRU WALL TO THE EXTERIOR.

- * 1) VERIFY TREES/OVERHEAD @ CRANE LIFT AREAS. Building Height Approx. 35'
- 2) CREPE MYRTLE'S @ CENTRAL PLANT NEED TRANSPLANT OR LOSE THEM.
- 3) LOCATE U.G. UTILITIES BETWEEN BUILDINGS BA + CENTRAL PLANT
- 4) FLUSH, CLEAN + TEST

REVISIONS	
NO.	DATE

JOB NO: 5080
 DWN BY: TRP
 DATE: MAY 12, 2005
 SCALE: AS NOTED

SHEET
ME1
 OF

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AT
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KILGORE, TEXAS

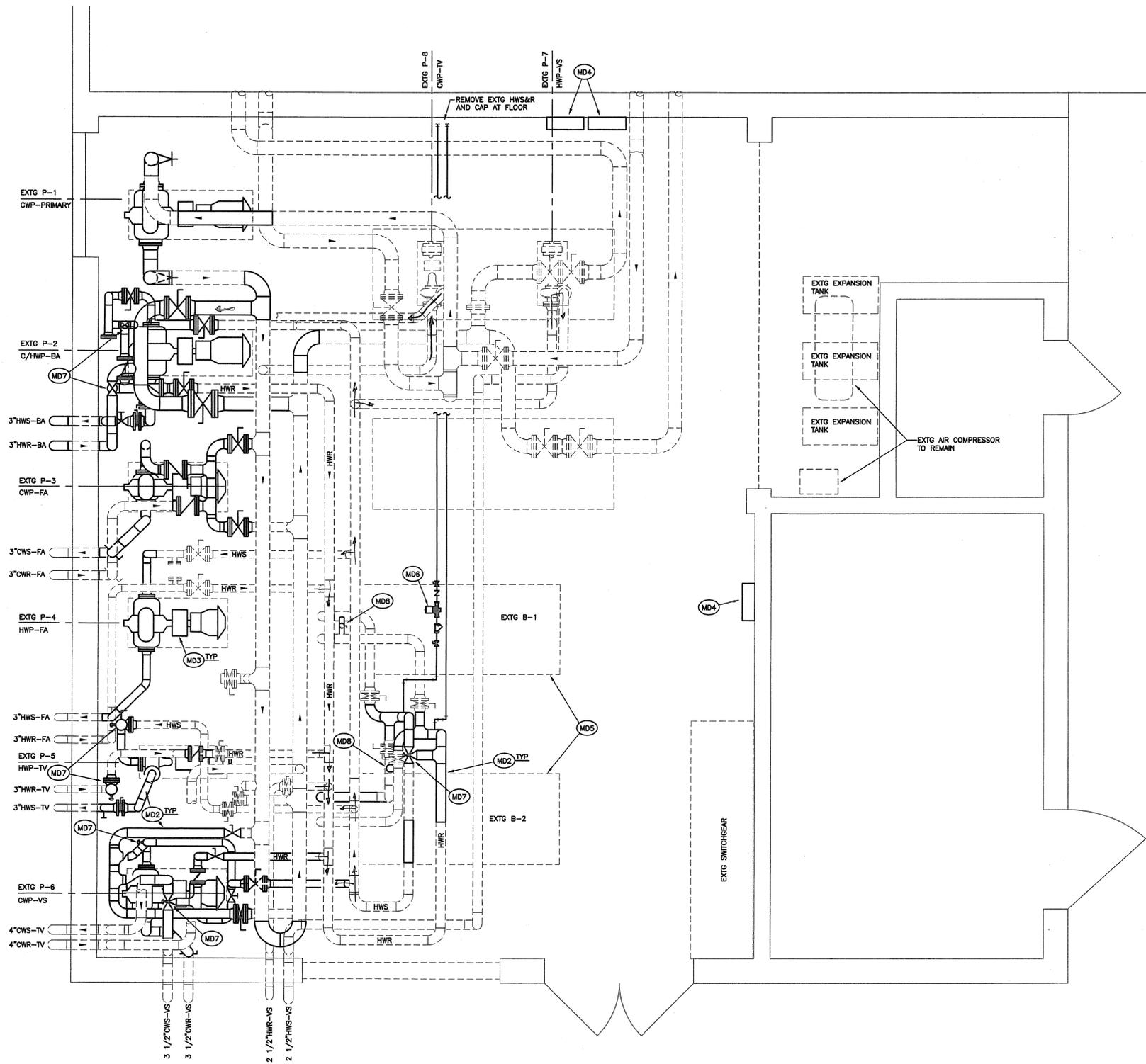
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SHEET
MD2

MECHANICAL DEMOLITION NOTES:

- EXISTING TO BE REMOVED
- - - EXISTING TO REMAIN
- (MD1) CONTRACTOR SHALL FIELD VERIFY EXACT SIZE, LOCATION, ELEVATION, ETC. OF ALL EXISTING UTILITIES, EQUIPMENT, PIPING, DUCTWORK, CONDUIT, ETC.
- (MD2) REMOVE EXISTING PIPING WHERE INDICATED.
- (MD3) REMOVE PUMPS AND ASSOCIATED VALVES. CONCRETE PADS TO REMAIN.
- (MD4) REMOVE EXISTING TEMPERATURE CONTROL SYSTEM COMPONENTS, TUBING AND CONTROL WIRING NO LONGER IN USE. EXISTING PNEUMATIC CONTROLS SERVING FA BUILDING SHALL REMAIN.
- (MD5) EXISTING BOILER TO REMAIN. PROTECT DURING DEMOLITION AND NEW CONSTRUCTION.
- (MD6) REMOVE EXISTING PUMP AND ASSOCIATED PIPING.
- (MD7) REMOVE EXISTING 3-WAY CONTROL VALVE AND ASSOCIATED TUBING, WIRE, ETC.
- (MD8) REMOVE BYPASS AND CAP.
- (MD9) CONTRACTOR SHALL SUBMIT A TEST & BALANCE REPORT INDICATING THE EXTG FLOW CONDITIONS OF EACH PIECE OF EQUIP PER SPECIFICATION SECTION 15996 PRIOR TO DEMOLITION.



CENTRAL PLANT FLOOR PLAN - MECHANICAL DEMOLITION

SCALE: 1/2"=1'-0"

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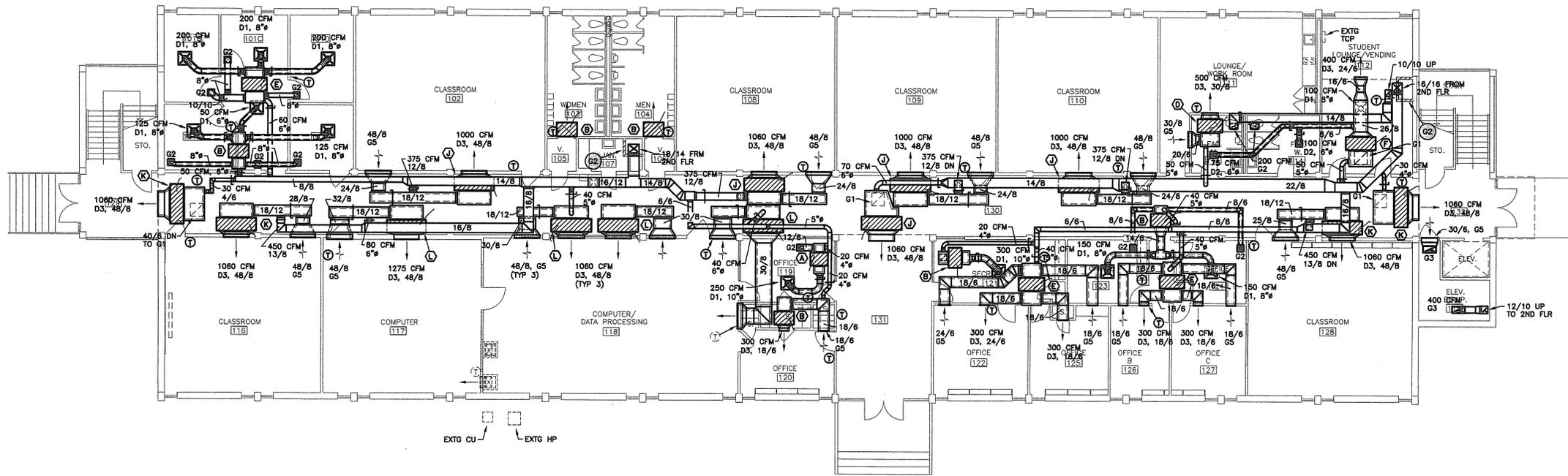
NO. DATE

JOB NO: 5080
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SHEET

M1

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BUSINESS ADMINISTRATION FIRST FLOOR PLAN - MECHANICAL

SCALE: 1/8"=1'-0"

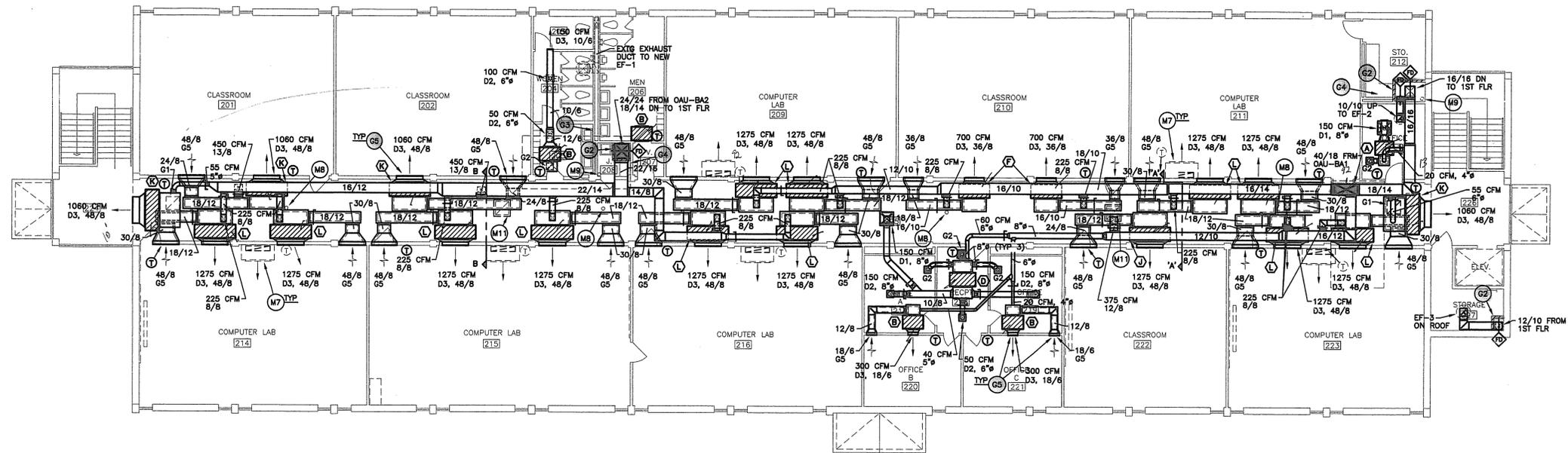
GENERAL NOTES:

- G1 REFER TO DEMOLITION PLAN FOR ADDITIONAL INFORMATION.
- G2 NEW DRYWALL PARTITION TO ENCLOSE NEW DUCT, PIPING, ETC. PROVIDE FINISHES TO MATCH EXTG SURROUNDINGS. FIELD VERIFY EXACT SIZE PRIOR TO INSTALLATION.
- G3 BREAKOUT EXTG WALL ABV CLG AS REQUIRED TO OFFSET EXTG VTR. PATCH WALL TO MATCH SURROUNDING EXTG FINISHES.
- G4 REINSTALL EXTG MILLWORK/CASEWORK/SHELVING. PATCH/REPAIR TO MATCH EXTG CONDITIONS.
- G5 PATCH EXTG WALL TO MATCH EXTG SURROUNDING CONDITIONS. PAINT ENTIRE WALL FROM CORNER TO CORNER.

MECHANICAL NOTES:

- M1 ALL FLEXIBLE DUCT SHALL BE FULLY EXTENDED FREE OF KINKS AND NO LONGER THAN 5'-0" SAME SIZE AS DIFFUSER NECK. DIFFUSER BRANCH DUCT SHALL BE SAME SIZE AS DIFFUSER NECK UNO.
- M2 ALL DUCT WORK SIZES SHOWN ARE INSIDE FREE AREA DIMENSIONS.
- M3 ALL DIFFUSERS AND/OR GRILLES LESS THAN FULL CEILING T-BAR SPACINGS SHALL BE INDEPENDENTLY SUPPORTED FROM STRUCTURE ABOVE WITH CEILING TI WIRES.
- M4 PROVIDE NECESSARY OFFSETS TO MAINTAIN MINIMUM 15' DISTANCE BETWEEN O/A INTAKES AND PLUMBING VENTS AND EXHAUST AIR OUTLETS. VERIFY EXACT LOCATIONS WITH ARCHITECT AND ENGINEER.
- M5 FIRE DAMPERS AND SMOKE DAMPERS AS APPROVED BY LOCAL GOVERNING AUTHORITIES SHALL BE INSTALLED IN ALL DUCTWORK PASSING THRU A FLOOR, ROOF, FIRE PARTITION, OR FIRE WALL. PROVIDE ACCESS. COORDINATE EXACT LOCATIONS WITH ARCHITECTURAL PLANS.
- M6 ROUTE O/A DUCT TO FCU'S AS HIGH AS POSSIBLE UNDER STRUCTURE IN HALLWAY. OFFSET DUCT UP IN STRUCTURE AS REQUIRED TO ROUTE OVER FCU'S AS SHOWN. PROVIDE ALL OFFSETS, TRANSITION, ETC. AS NECESSARY FOR PROPER INSTALLATION OF O/A DUCT.
- M7 RELOCATE EXTG DX FAN COIL UNIT. FIELD VERIFY EXACT LOCATION AND COORDINATE W/NEW WORK. EXTEND EXTG THERMOSTAT WIRE AND REFRIGERANT PIPING AS REQUIRED. PATCH WALL AND CLG TO MATCH EXTG SURROUNDING CONDITIONS.
- M8 EXTEND NEW 6" STORM DRAIN FROM EXTG ROOF DRAIN AND CONNECT TO EXTG 6" VERTICAL STORM DRAIN LEADER. NO MORE THAN TWO ROOF DRAINS PER VERTICAL LEADER. COORDINATE ROUTING W/DUCTWORK, PIPING, CONDUIT, EQUIPMENT, STRUCTURE, ETC.
- M9 EXTG VERTICAL STORM DRAIN LEADER, FIELD VERIFY EXACT LOCATION.
- M10 ALL OWNER FURNISHED CONTRACTOR INSTALLED EQUIP SHALL BE RECEIVED, INSPECTED, STORED AND SHALL REMAIN THE RESPONSIBILITY OF THE CONTRACTOR UNTIL THE PROJECT IS SUBSTANTIALLY COMPLETE.
- M11 EXTG ROOF HOOD. PROVIDE BAROMETRIC RELIEF DAMPER. VERIFY EXACT SIZE.
- M12 INSTALL FAN COIL UNIT FAN SPEED SWITCH (FCS) IN RECESSED J-BOX NEXT TO THERMOSTAT. ALL CONDUIT AND CONDUCTORS SHALL BE RUN IN WALL.

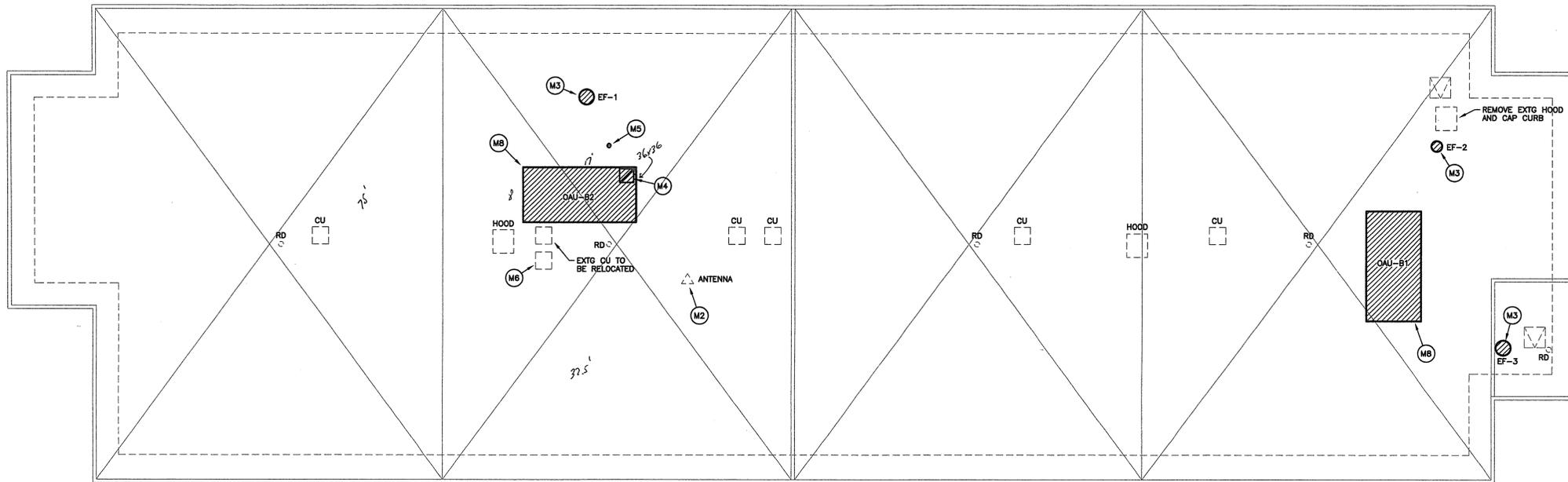
2955
 315
 735



BUSINESS ADMINISTRATION SECOND FLOOR PLAN - MECHANICAL

SCALE: 1/8"=1'-0"

2955
 180
 510



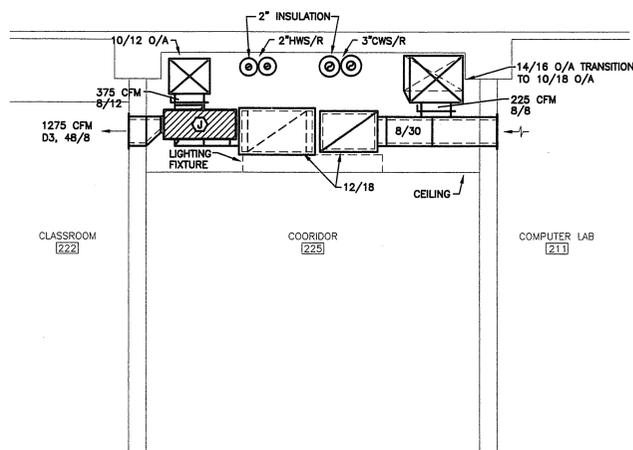
BUSINESS ADMINISTRATION ROOF PLAN - MECHANICAL

SCALE: 1/8"=1'-0"

MECHANICAL NOTES:

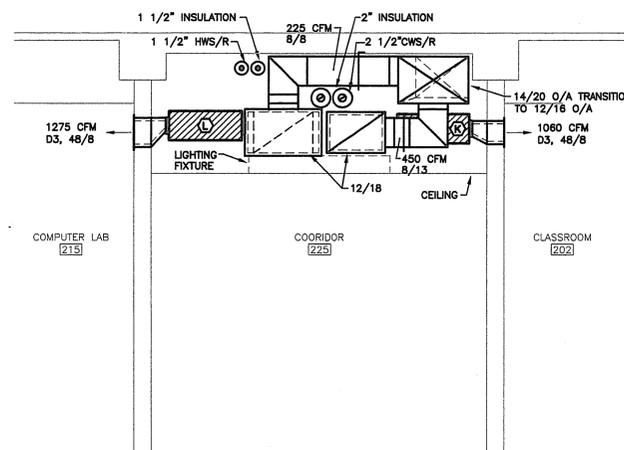
- (M1) CONTRACTOR SHALL FIELD VERIFY EXACT LOCATION, SIZE, ROUTING, ETC. OF ALL EXTG EQUIPMENT, PIPING, CONDUIT, ETC. PRIOR TO WORK OF ANY KIND. COORDINATE NEW WORK W/EXTG CONDITIONS.
- (M2) COORDINATE INSTALLATION OF NEW EQUIPMENT W/EXTG ANTENNA AND GUY-WIRES.
- (M3) INSTALL NEW EXHAUST FAN ON EXTG CURB. MODIFY CURB AS REQUIRED. FIELD VERIFY EXACT SIZE.
- (M4) REMOVE EXTG INTAKE HOOD AND CURB.
- (M5) RELOCATE EXTG 4"VTR IN CLG BELOW. FIELD VERIFY EXACT LOCATION.
- (M6) RELOCATE EXTG CONDENSING UNIT. RECONNECT REFRIGERANT PIPING AT ROOF PENETRATION.
- (M7) EXTEND 1 1/2" CONDENSATE DRAIN FROM EACH OAU TO NEAREST ROOF DRAIN.
- (M8) FLASH IN CURB AND PATCH ROOF TO MATCH EXTG. PROVIDE CRICKET AND TAPERED INSULATION FOR 1/4" SURFACE SLOPE TO PREVENT PONDING. CONTRACTOR SHALL FIELD VERIFY EXISTING CONDITIONS, ROOF CONSTRUCTION, SLOPE, ETC. PRIOR TO BID.

M5) Check DISTANCE TO OAU-B2 INTAKE



SECTION 'A'

SCALE: 1/2"=1'-0"



SECTION 'B'

SCALE: 1/2"=1'-0"

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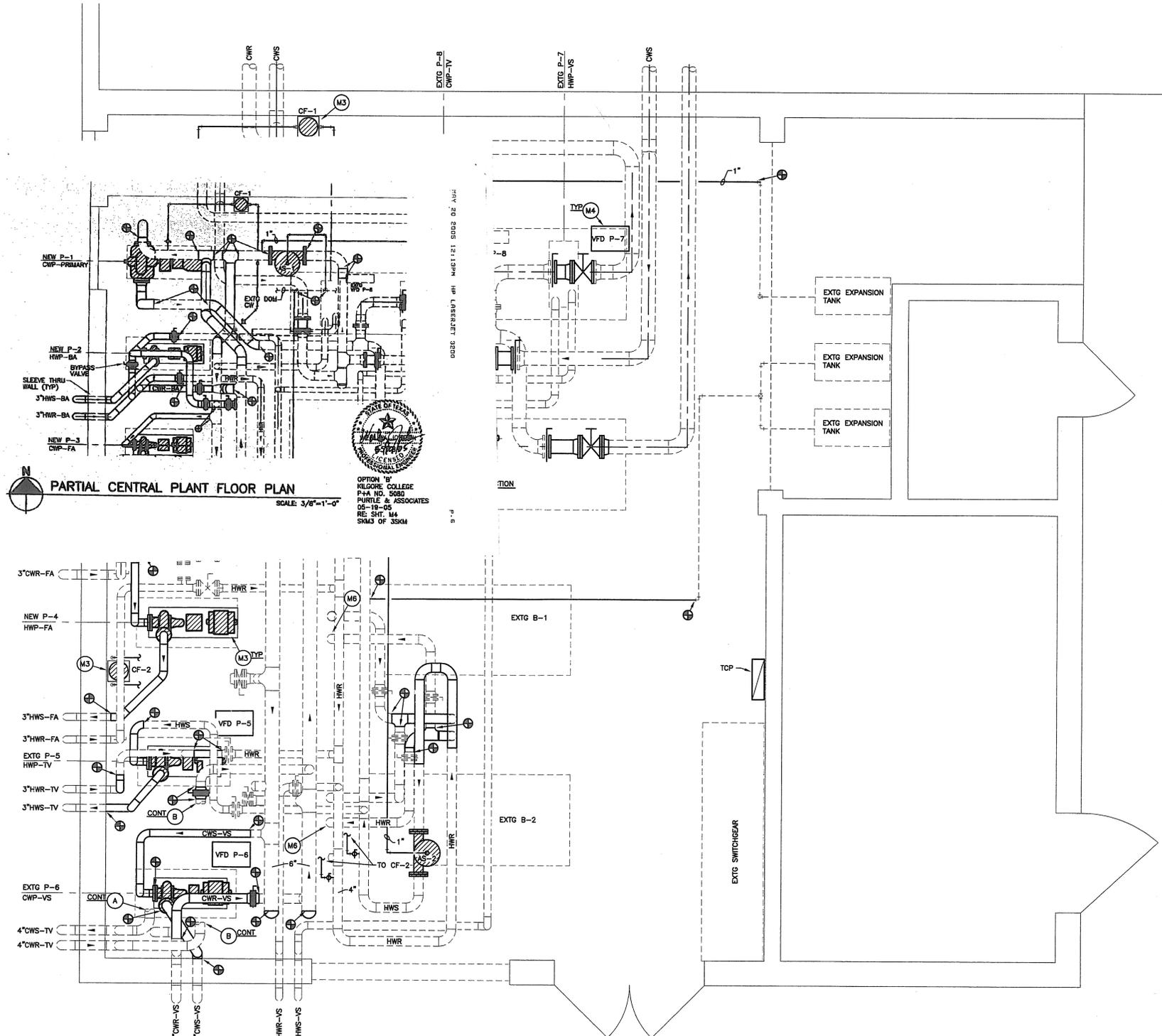
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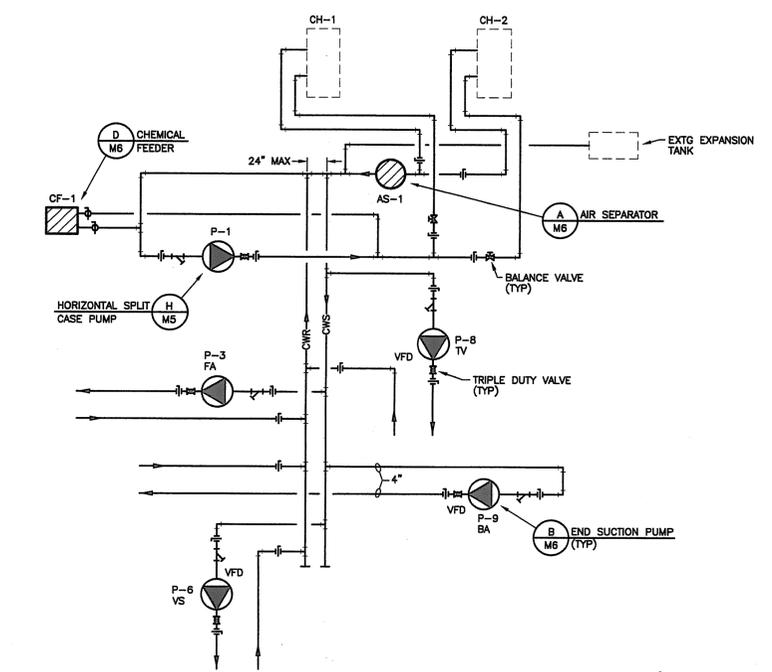
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M3



CENTRAL PLANT FLOOR PLAN - MECHANICAL

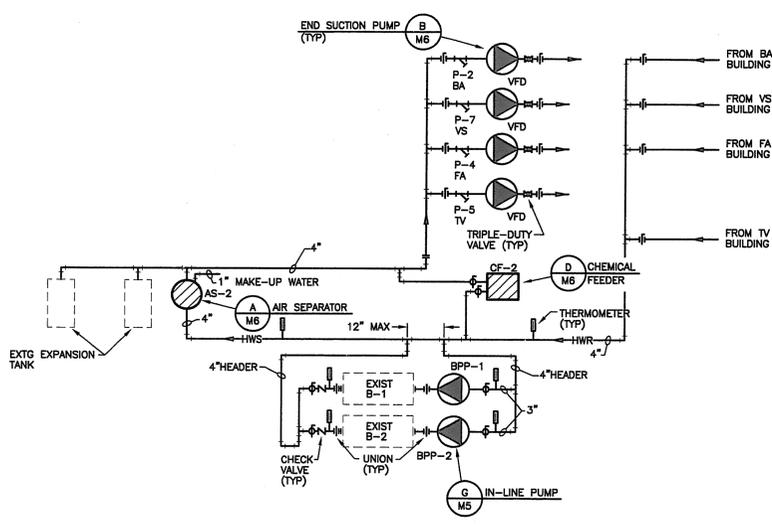
SCALE: 1/2"=1'-0"

- MECHANICAL NOTES:**
- EXISTING
 - NEW WORK
 - (M1) CONTRACTOR SHALL FIELD VERIFY EXACT LOCATION, ROUTING, ELEVATION, SIZE, ETC. OF ALL EXTG PIPING, EQUIP, CONDUIT, ETC. PRIOR TO WORK.
 - (M2) COORDINATE EXACT PIPE ROUTING AND ELEVATIONS WITH EXISTING CONDITIONS.
 - (M3) FURNISH AND INSTALL CHEMICAL FEED SYSTEM FOR CHILLED WATER AND HEATING WATER PIPING SYSTEMS IN ACCORDANCE WITH SPECIFICATION. INSTALL CONNECTIONS TO PIPING AS SHOWN ON PLANS.
 - (M4) SIZES OF MODIFIED PIPING SHALL MATCH EXTG. FIELD VERIFY EXACT SIZES.
 - (M5) ALL EXISTING AND NEW TEMPERATURE CONTROL COMPONENTS FOR OPERATION OF THE CHILLED WATER AND HEATING WATER SYSTEMS SHALL BE CONVERTED TO DDC.
 - (M6) PROVIDE NEW BOILER PRIMARY PUMP (BPP) AND VALVES PER DETAIL H, SHEET M6.



CHILLED WATER SYSTEM FLOW DIAGRAM

NO SCALE



HEATING WATER SYSTEM FLOW DIAGRAM

NO SCALE

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SHEET

M4

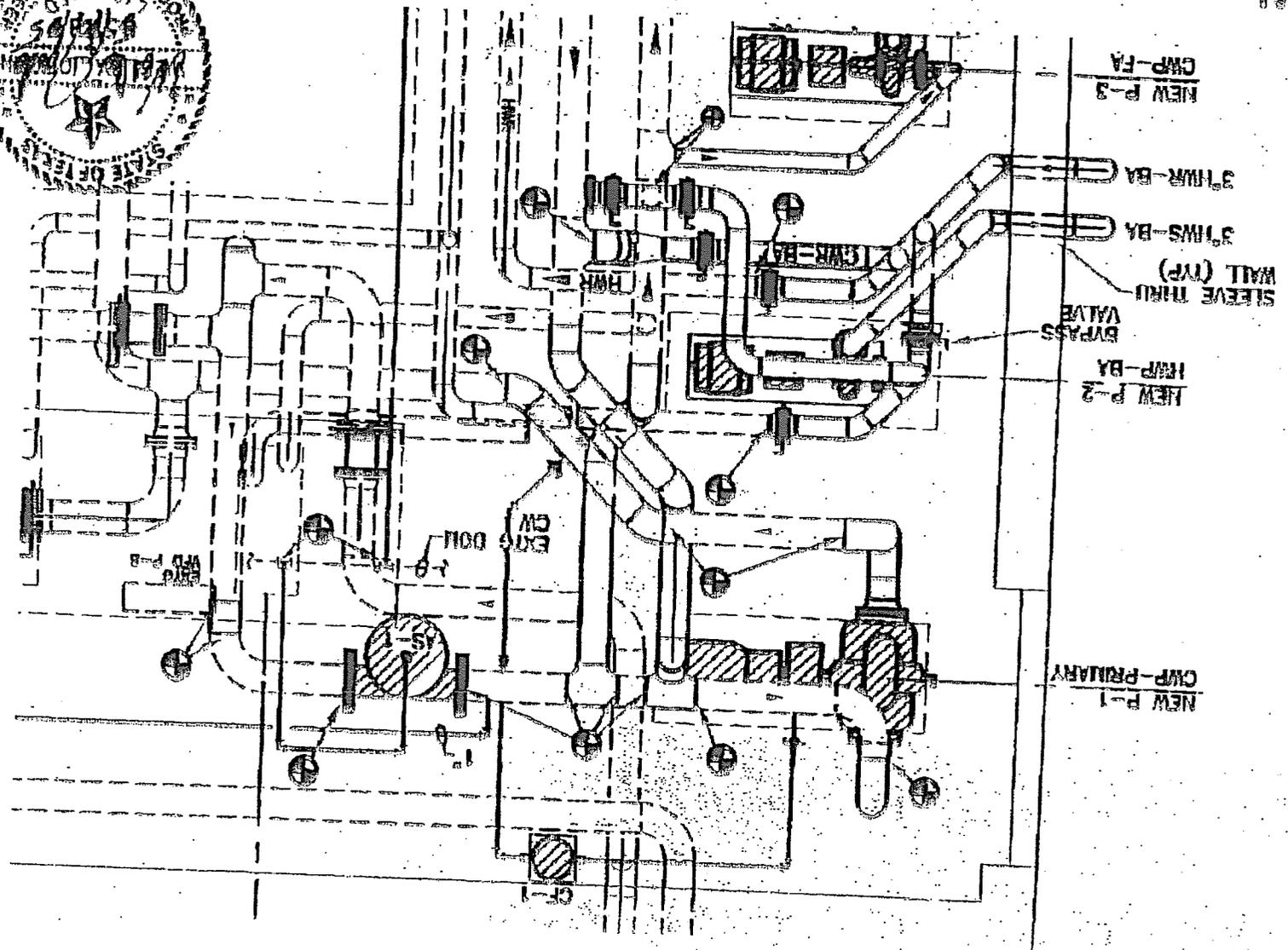
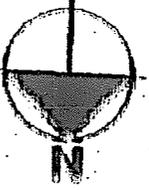
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OPTION B
KILGORE COLLEGE
P-1A NO. 5080
PURTELL & ASSOCIATES
05-18-05
RE: SIFT. U/I
SINCE OF 53K14



SCALE 3/8"=1'-0"

PARTIAL CENTRAL PLANT FLOOR PLAN





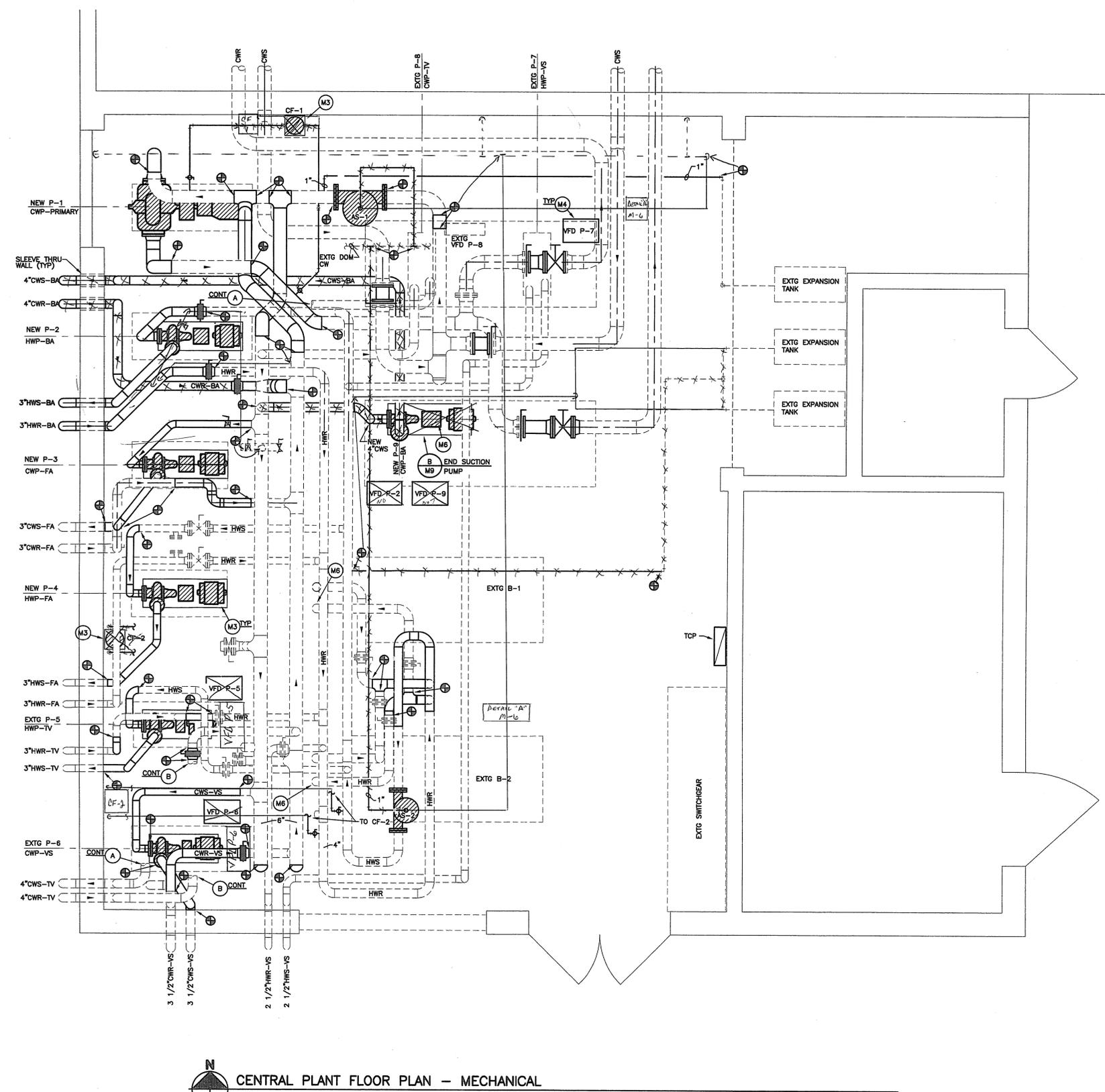
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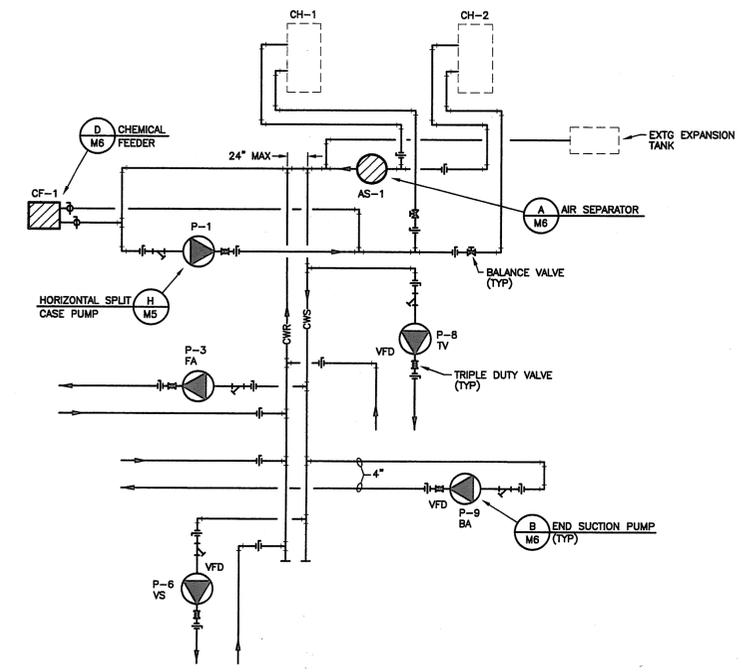
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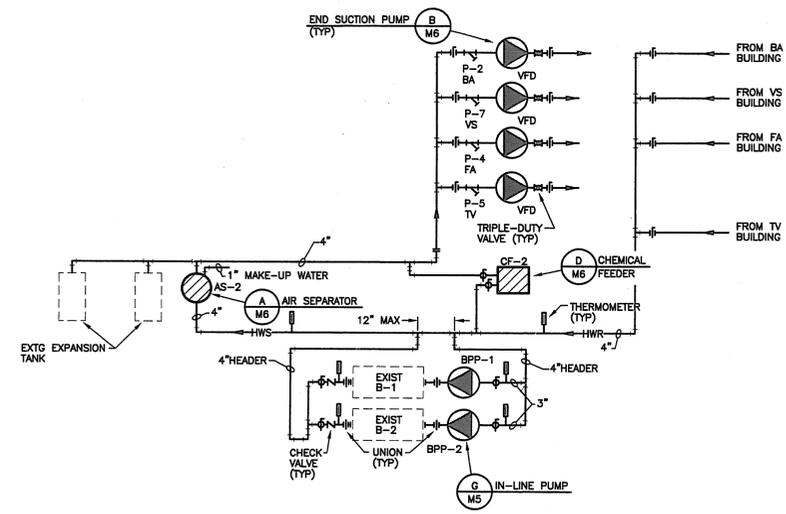
CENTRAL PLANT FLOOR PLAN - MECHANICAL

SCALE: 1/2"=1'-0"

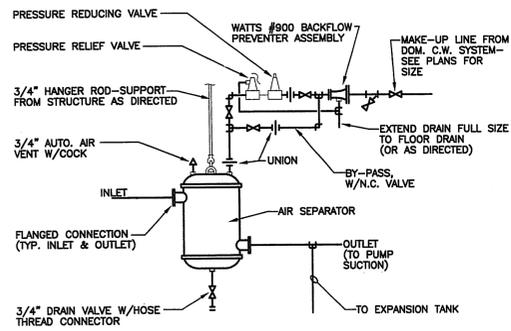
- MECHANICAL NOTES:**
- EXISTING
 - NEW WORK
 - (M1) CONTRACTOR SHALL FIELD VERIFY EXACT LOCATION, ROUTING, ELEVATION, SIZE, ETC. OF ALL EXTG PIPING, EQUIP, CONDUIT, ETC. PRIOR TO WORK.
 - (M2) COORDINATE EXACT PIPE ROUTING AND ELEVATIONS WITH EXISTING CONDITIONS.
 - (M3) FURNISH AND INSTALL CHEMICAL FEED SYSTEM FOR CHILLED WATER AND HEATING WATER PIPING SYSTEMS IN ACCORDANCE WITH SPECIFICATION. INSTALL CONNECTIONS TO PIPING AS SHOWN ON PLANS.
 - (M4) SIZES OF MODIFIED PIPING SHALL MATCH EXTG. FIELD VERIFY EXACT SIZES.
 - (M5) ALL EXISTING AND NEW TEMPERATURE CONTROL COMPONENTS FOR OPERATION OF THE CHILLED WATER AND HEATING WATER SYSTEMS SHALL BE CONVERTED TO DDC.
 - (M6) PROVIDE NEW BOILER PRIMARY PUMP (BPP) AND VALVES PER DETAIL H, SHEET M6.



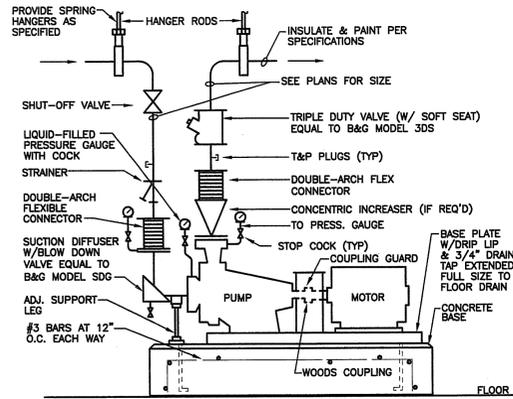
CHILLED WATER SYSTEM FLOW DIAGRAM
 NO SCALE



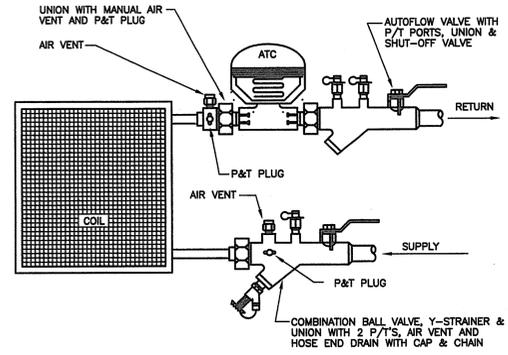
HEATING WATER SYSTEM FLOW DIAGRAM
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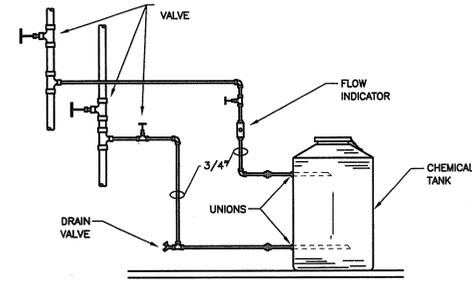
(A) DETAIL - AIR SEPARATOR NO SCALE



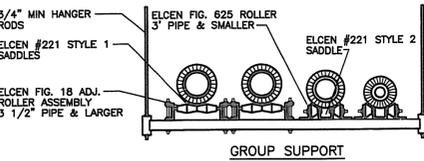
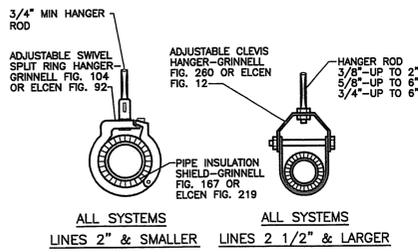
(B) DETAIL - END SUCTION PUMP NO SCALE



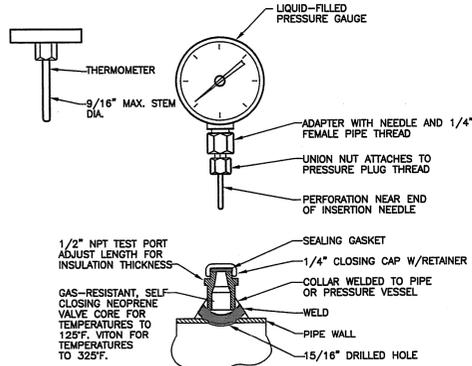
(C) DETAIL - 2-WAY HEATING & COOLING COILS NO SCALE



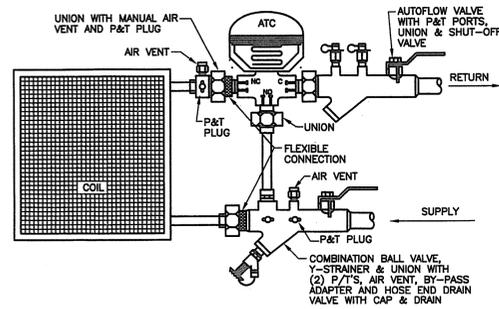
(D) DETAIL - CHEMICAL FEEDER NO SCALE
NOTE: SUPPORT TANK FROM WALLS WITH BRACKETS OR FLOOR MOUNT ON 4" HIGH CONCRETE PAD WITH CHAMFERED EDGES.



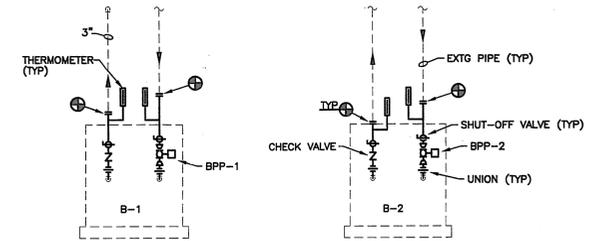
(E) DETAIL - PIPE SUPPORTS NO SCALE



(F) DETAIL - TEMPERATURE AND PRESSURE (T/P) TEST PORT NO SCALE



(G) DETAIL - 3-WAY HEATING & COOLING COILS NO SCALE



(H) DETAIL - EXISTING BOILERS NO SCALE



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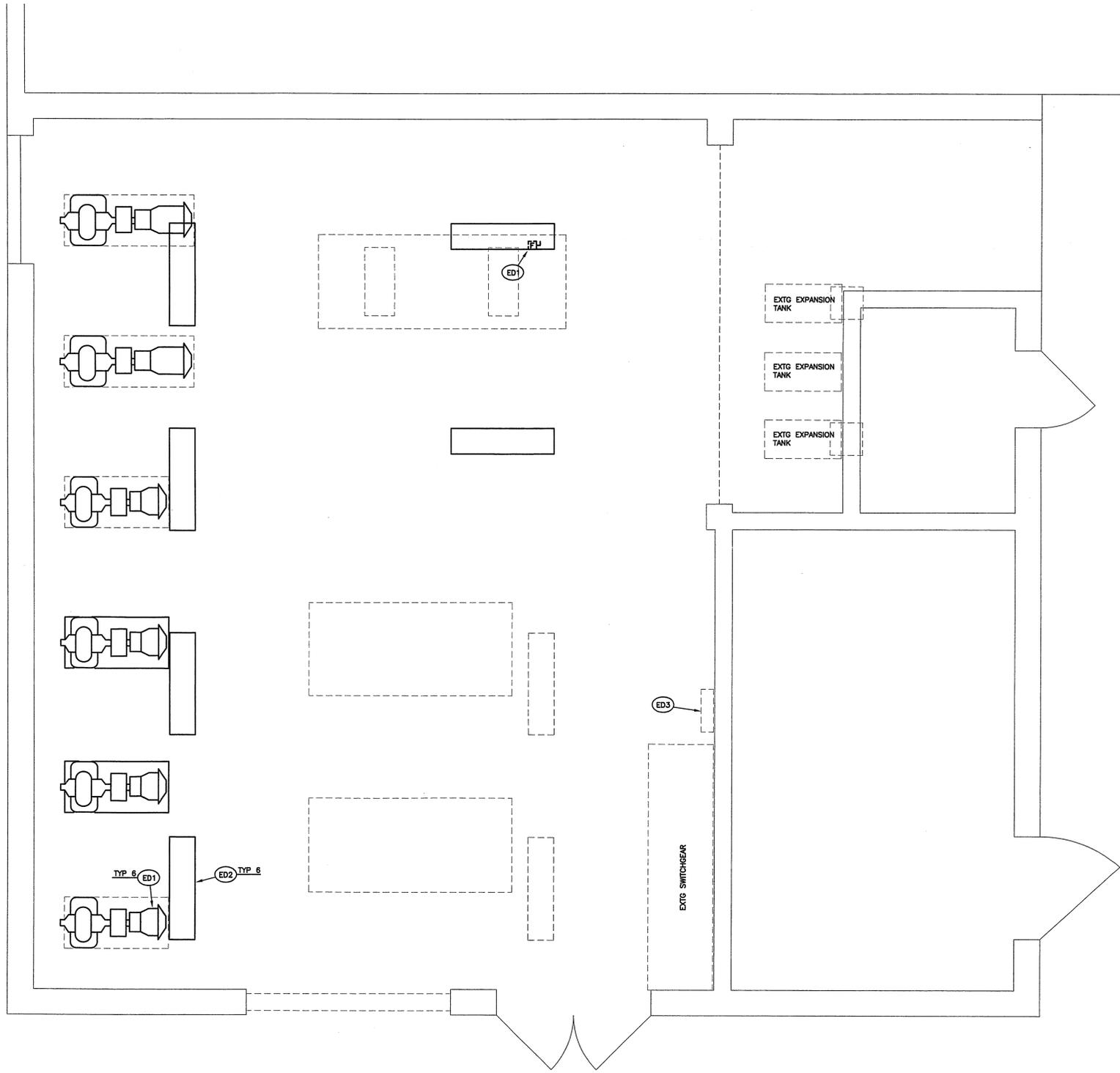
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CENTRAL PLANT FLOOR PLAN - ELECTRICAL DEMOLITION

SCALE: 1/2"=1'-0"

ELECTRICAL DEMOLITION NOTES:
 ——— EXISTING TO BE REMOVED
 - - - EXISTING TO REMAIN

- ED1 DISCONNECT CONDUCTORS TO EXISTING PUMP MOTORS. NEW PUMPS SHALL BE INSTALLED WITH VFD OR DISCONNECT SWITCH. REUSE EXISTING CONDUIT AS POSSIBLE. FIELD VERIFY PRIOR TO BID.
- ED2 DISCONNECT AND REMOVE EXISTING LIGHTING FIXTURE FOR INSTALLATION OF NEW PIPING. EXISTING LIGHT FIXTURE TO BE REINSTALLED AFTER PIPING INSTALLATION. COORDINATE WITH MECH CONTRACTOR. STORE TO PREVENT FROM DAMAGE.
- ED3 DISCONNECT AND REMOVE CONDUIT AND CONDUCTORS FROM EXISTING TEMPERATURE CONTROL PANEL.
- ED4 REPAIR OR REPLACE ANY BRANCH CIRCUIT DAMAGED BY DEMOLITION.

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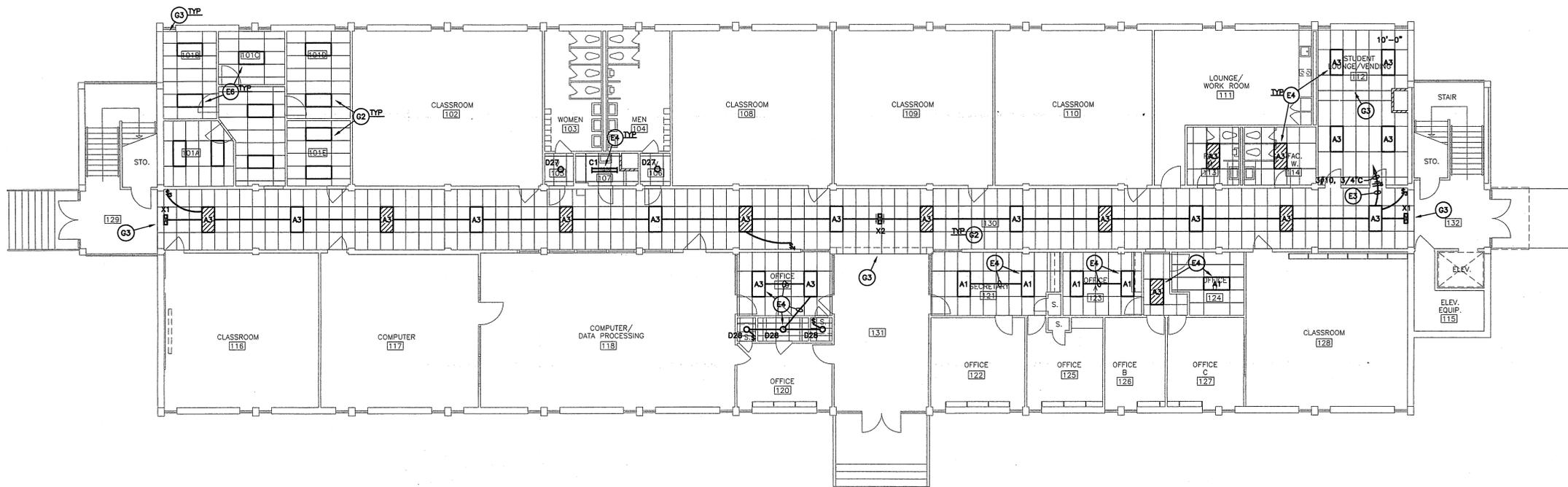
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BUSINESS ADMINISTRATION FIRST FLOOR PLAN - LIGHTING

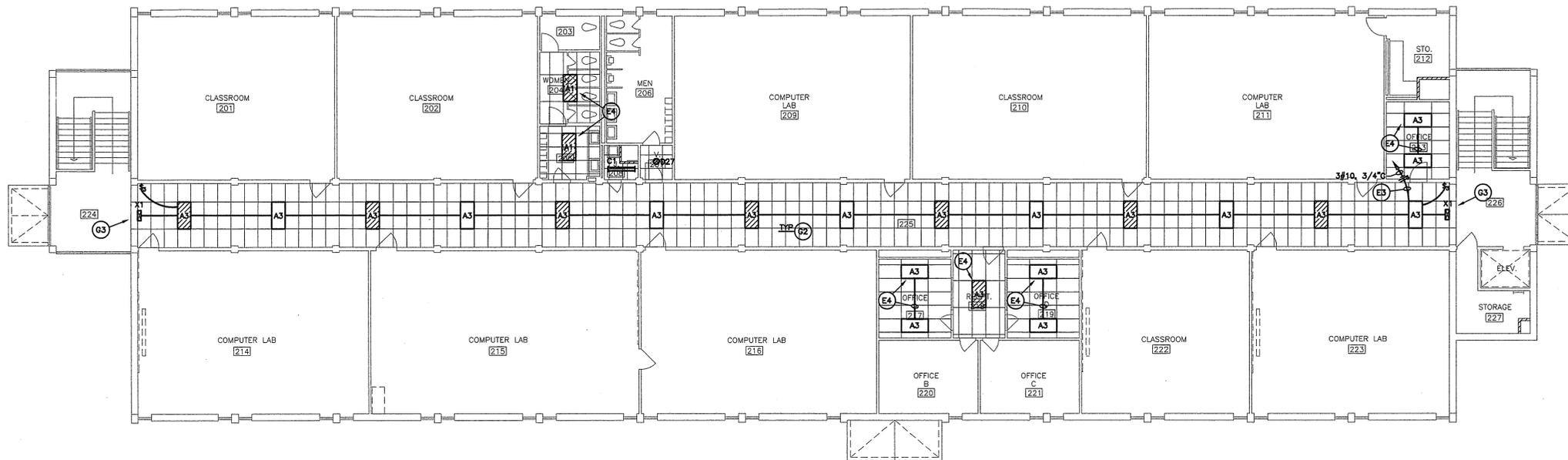
SCALE: 1/8"=1'-0"

GENERAL NOTES:

- G1 REFER TO DEMOLITION PLANS FOR ADDITIONAL INFORMATION.
- G2 PROVIDE NEW CLG GRID/TILE SYSTEM WHERE INDICATED. CLG HEIGHT SHALL BE 8'-0" AFF UNLESS NOTED OTHERWISE. COORDINATE INSTALLATION WITH OTHER TRADES.
- G3 NEW CLG WINDOW POCKET. FIELD VERIFY EXTG CLG HEIGHT.

ELECTRICAL NOTES:

- E1 ALL CROSS-HATCHED LIGHTING FIXTURES SHALL HAVE 90 MINUTE MINIMUM, 1400 LUMEN, SELF-TESTING, A/V ALARM BATTERY PACKS ON UNSWITCHED CONDUCTORS.
- E2 CONNECT ALL EXIT LIGHTS TO UNSWITCHED CONDUCTORS.
- E3 PROVIDE CONDUIT AND CONDUCTORS TO EXTG PANELBOARD TO REPLACE THE EXTG LIGHTING BRANCH CIRCUIT CONDUCTORS. PROVIDE 1P-20A CIRCUIT BREAKER AS REQUIRED. INTERCEPT EXTG CONDUIT.
- E4 EXTEND AND CONNECT NEW LIGHTING FIXTURES TO EXTG LIGHTING BRANCH CIRCUIT. VERIFY CIRCUIT LOAD PRIOR TO CONNECTING. COORDINATE VOLTAGE OF LIGHTING FIXTURES W/EXTG BRANCH CIRCUIT.
- E5 CLOSELY COORDINATE INSTALLATION OF LIGHTING FIXTURES W/NEW CEILING GRID.
- E6 REINSTALL EXTG LIGHTING FIXTURES. CLEAN AND RELAMP PRIOR TO INSTALLATION.



BUSINESS ADMINISTRATION SECOND FLOOR PLAN - LIGHTING

SCALE: 1/8"=1'-0"



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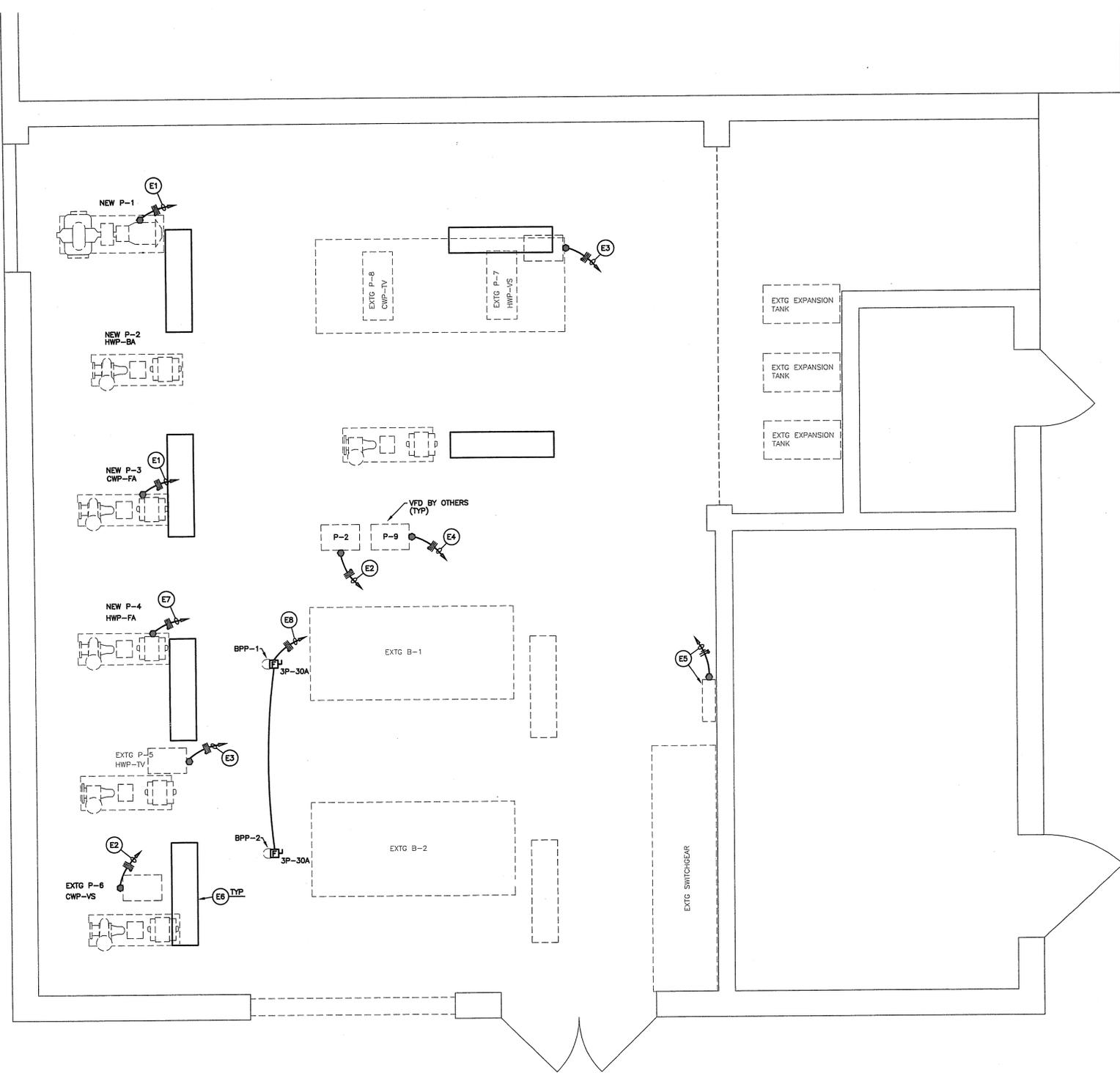
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- ELECTRICAL NOTES:**
- (E1) PROVIDE 4#8, 1" TO THE EXTG MCC AND NEW NEMA SIZE 2 STARTER WITH OVER LOADS, ETC. FIELD VERIFY EXACT REQUIREMENTS PRIOR TO BID.
 - (E2) PROVIDE 4#10, 3/4" TO THE EXTG MCC AND 3P-20A CIRCUIT BREAKER. COORDINATE THE EXACT LOCATION OF VFD WITH MECH CONTRACTOR PRIOR TO ROUGH-IN. REUSE EXTG CONDUIT IF POSSIBLE. FIELD VERIFY EXACT REQUIREMENTS PRIOR TO BID.
 - (E3) PROVIDE 4#10, 3/4" TO THE EXTG MCC AND 3P-15A CIRCUIT BREAKER. COORDINATE THE EXACT LOCATION OF VFD WITH MECH CONTRACTOR PRIOR TO ROUGH-IN. REUSE EXTG CONDUIT IF POSSIBLE. FIELD VERIFY EXACT REQUIREMENTS PRIOR TO BID.
 - (E4) PROVIDE 4#10, 3/4" TO THE EXTG MCC AND 3P-30A CIRCUIT BREAKER. COORDINATE THE EXACT LOCATION OF VFD WITH MECH CONTRACTOR PRIOR TO ROUGH-IN. REUSE EXTG CONDUIT IF POSSIBLE. FIELD VERIFY EXACT REQUIREMENTS PRIOR TO BID.
 - (E5) EXTEND AND CONNECT NEW TCP TO EXTG BRANCH CIRCUIT.
 - (E6) REINSTALL LIGHTING FIXTURE. EXTEND AND CONNECT TO EXTG BRANCH CIRCUIT.
 - (E7) PROVIDE 4#10, 3/4" TO THE EXTG MCC AND NEW NEMA SIZE 1 STARTER WITH OVERLOADS ETC. FIELD VERIFY EXACT REQUIREMENTS PRIOR TO BID.
 - (E8) PROVIDE 3#10, 3/4" TO NEAREST 480V 3 ϕ PANELBOARD OR 15A BRANCH CIRCUIT WITH CAPACITY. PROVIDE 3P-15A CIRCUIT BREAKER. FIELD VERIFY PRIOR TO BID.

CENTRAL PLANT FLOOR PLAN - ELECTRICAL

SCALE: 1/2"=1'-0"



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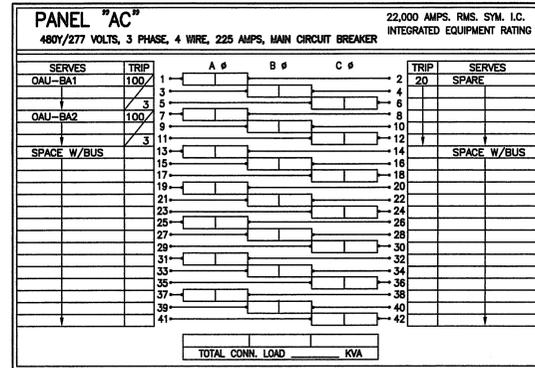
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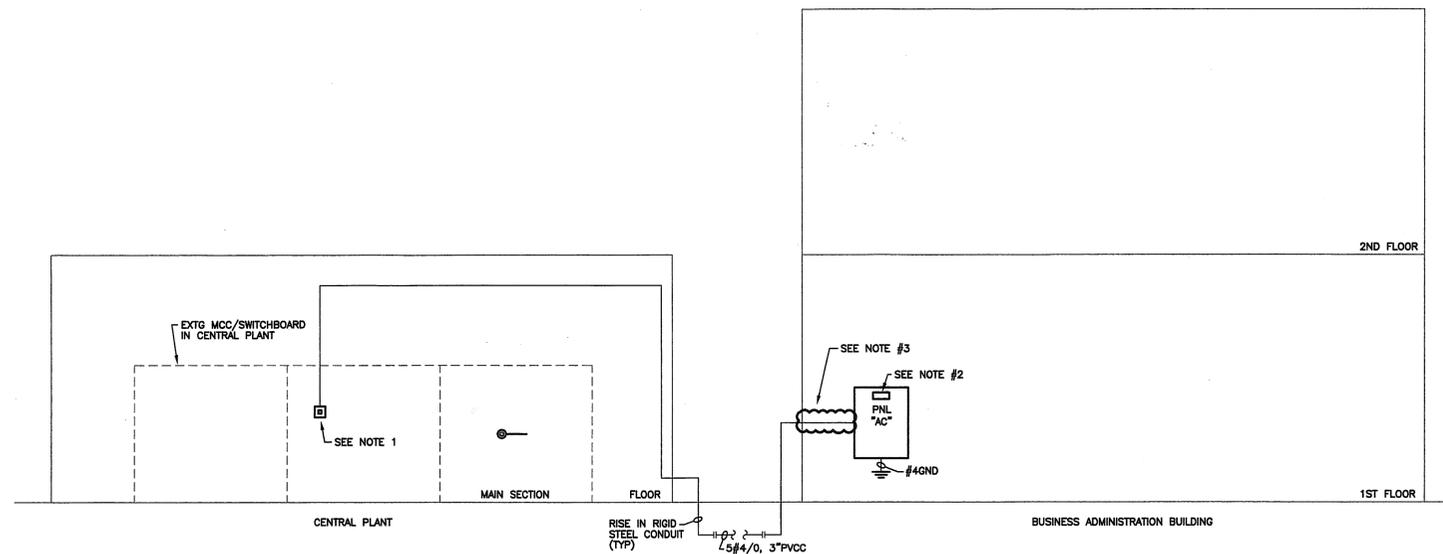
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LIGHTING FIXTURE SCHEDULE						
MARK	TYPE	MOUNTING	MANUFACTURER CATALOG NO.	LAMPS QTY & TYPE	DESCRIPTION	ALTERNATE MANUFACTURER
A1	2 x 4 TROFFER 4-LAMP LENSED	CEILING RECESSED GRID	COLUMBIA 4P524-432G- FSA12.125M-EB8LH	(4) F32T8/SPX35	.125 MIN THK LENS WITH ELECTRONIC BALLAST - FLAT WHITE STEEL DOOR	DIVORTE 20032P512MB10 LIGHTLIER SP202P512MB10
A3	2 x 4 TROFFER 3-LAMP LENSED	CEILING RECESSED GRID	COLUMBIA 4P524-332G- FSA12.125M-EB8LH	(3) F32T8/SPX35	.125 MIN THK LENS WITH ELECTRONIC BALLAST - FLAT WHITE STEEL DOOR	DIVORTE 20032P512MB10 LIGHTLIER SP202P512MB10
C1	4' 2-LAMP STRIP	SURFACE CHAIN PENDANT	COLUMBIA CS4-232-EB8LH	(2) F32T8/SPX35	WBE FINISH ELECTRONIC BALLAST	DIVORTE T322B10 LIGHTLIER SMA322B10
D27	PL VERTICAL OPEN DOWNLIGHT	RECESSED	PRESCOLITE OT1842B-WTG- 802/B24	(1) 42 WATT PLT	WHITE METAL TRIM RING 8" APERTURE WITH BAR HANGERS	CAPR SP21314QE1DS
D28	FLUORESCENT DRUM	SURFACE	LIGHTOLIER 6750WH213U	(2) 13W PL	INJECTION MOLDED ACRYLIC LENS, DIE-FORMED ALUM HOD TWISTLOCK FASTENING, ELEC BALLAST	LUMAX SP21314QE1DS
X1	DIECAST EXIT SINGLE FACE	UNIVERSAL MOUNT	PRESCOLITE DMX1REBBA	LED RED	NICAD BATTERY - MATTE BLACK HOUSING - BRUSHED ALUMINUM FACE, SELF-DIAGNOSTIC	SOLITE LDP2020R8KBAC LIGHTLIER LUMINANCE
X2	DIECAST EXIT DOUBLE FACE	UNIVERSAL MOUNT	PRESCOLITE DMX2REBBA	LED RED	NICAD BATTERY - MATTE BLACK HOUSING - BRUSHED ALUMINUM FACE, SELF-DIAGNOSTIC	SOLITE LDP2020R8KBAC LIGHTLIER LUMINANCE



ELECTRICAL LEGEND	
SYMBOL	DESCRIPTION
---	CONDUIT IN WALL OR ABOVE CEILING
---	CONDUIT UNDER FLOOR OR UNDERGROUND
→	ARROW INDICATES HOMERUN, TICKMARKS: NEUTRAL, PHASE, GROUND
☐	TELEPHONE BOARD
☐	LIGHTING & APPLIANCE PANEL
☐	POWER PANEL
☐	SPECIAL PANEL
☐	JUNCTION BOX
☐	DISCONNECT SWITCH; FUSED; NONFUSED
⊙	ROOM THERMOSTAT
☐	TELEPHONE OUTLET
▽	TELEPHONE & DATA OUTLET
⊕	2 POLE; 3 WIRE RECEPTACLE
⊕	DUPLEX RECEPT ; ABOVE COUNTER
⊕	WEATHERPROOF ; GROUND FAULT
⊕	QUAD PLEX RECEPTACLE
⊕	PILOT LIGHT ; DIMMER
⊕	SINGLE POLE SWITCH ; 3-WAY; 4-WAY
AFT	ABOVE FINISHED FLOOR
☐	PULL STATION
☐	FIRE ALARM SYSTEM AUDIO/VISUAL SIGNAL
☐	FIRE ALARM SYSTEM VISUAL SIGNAL
☐	CEILING MOUNTED FIRE ALARM A/V SIGNAL
☐	PROGRAM BELL
☐	DUCT MOUNTED SMOKE DETECTOR
☐	DOOR HOLDER
⊕	MOTOR
⊕	MOTOR TOGGLE SWITCH



ELECTRICAL RISER

- NOTES:
 1. PROVIDE 3P-225A CIRCUIT BREAKER IN SPARE BUCKET IN EXTG.
 2. LABEL ALL SERVICE DISCONNECTS IN BUSINESS ADMINISTRATION BUILDING.
 3. CONCRETE ENCASE SERVICE CONDUCTORS PER NEC 230.6.



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