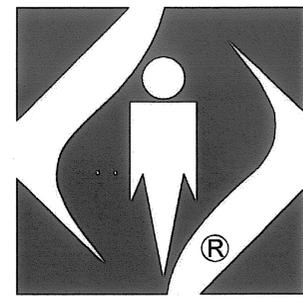


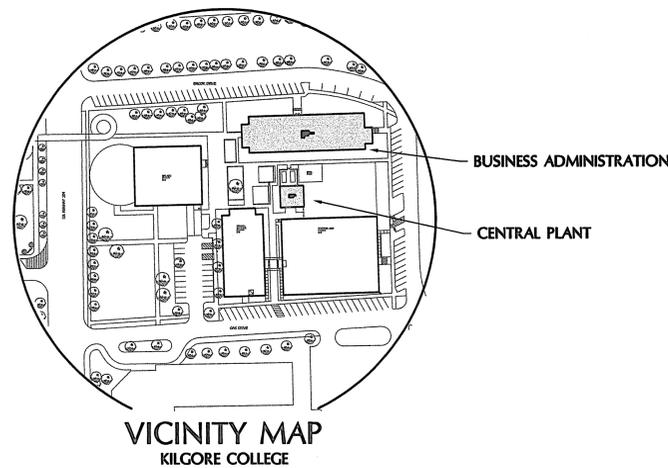
# BUSINESS ADMINISTRATION BUILDING HVAC RENOVATION

AT



# KILGORE COLLEGE

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



## INDEX TO DRAWINGS

SHEET	DESCRIPTION
T1	TITLE SHEET
ME1	SITE PLAN - MECHANICAL AND ELECTRICAL
MD1	BUSINESS ADMINISTRATION FIRST AND SECOND FLOOR PLANS - MECHANICAL DEMOLITION
MD2	CENTRAL PLANT FLOOR PLAN - MECHANICAL DEMOLITION
M1	BUSINESS ADMINISTRATION FIRST AND SECOND FLOOR PLANS - MECHANICAL
M2	BUSINESS ADMINISTRATION BLDG FIRST AND SECOND FLOOR PLANS - HVAC PIPING
M3	BUSINESS ADMINISTRATION ROOF PLAN - MECHANICAL
M4	CENTRAL PLANT FLOOR PLAN - MECHANICAL
M5	HVAC SCHEDULES & DETAILS
M6	HVAC SCHEDULES & DETAILS
ED1	BUSINESS ADMINISTRATION FIRST AND SECOND FLOOR PLANS - ELECTRICAL DEMOLITION
ED2	CENTRAL PLANT FLOOR PLAN - ELECTRICAL DEMOLITION
E1	BUSINESS ADMINISTRATION FIRST AND SECOND FLOOR PLANS - POWER
E2	BUSINESS ADMINISTRATION BLDG FIRST AND SECOND FLOOR PLANS - LIGHTING
E3	CENTRAL PLANT FLOOR PLAN - ELECTRICAL
E4	ELECTRICAL SCHEDULES & DETAILS

SET NO. 9

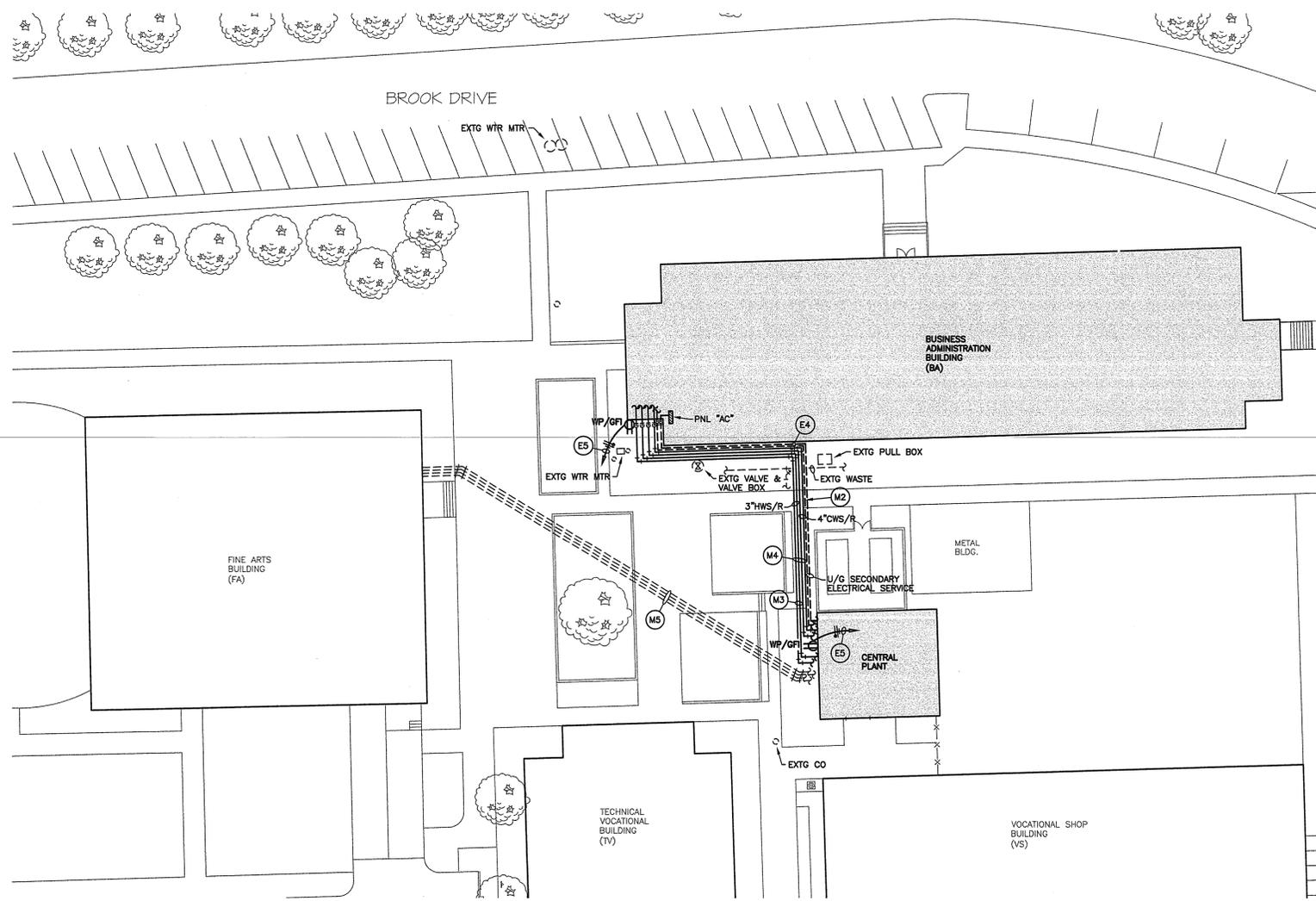


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**BUSINESS ADMINISTRATION BUILDING  
HVAC RENOVATION**

**KILGORE COLLEGE  
KILGORE, TEXAS**



**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 AND CORE BORE NEW OPENINGS FOR NEW CWS/R PIPE. WATERPROOF AND SEAL OPENINGS PER SPECIFICATIONS.
- (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 UDERGROUND 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 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.

**SITE PLAN - MECHANICAL AND ELECTRICAL**

SCALE: 1"=20'

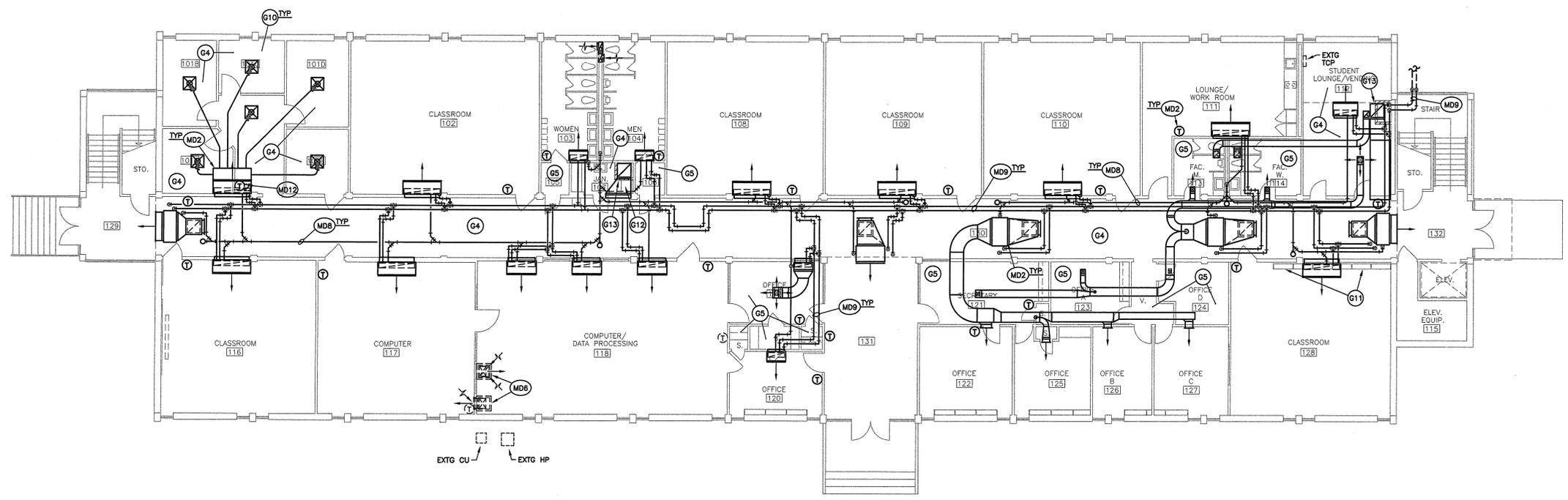
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SHEET  
**ME1**  
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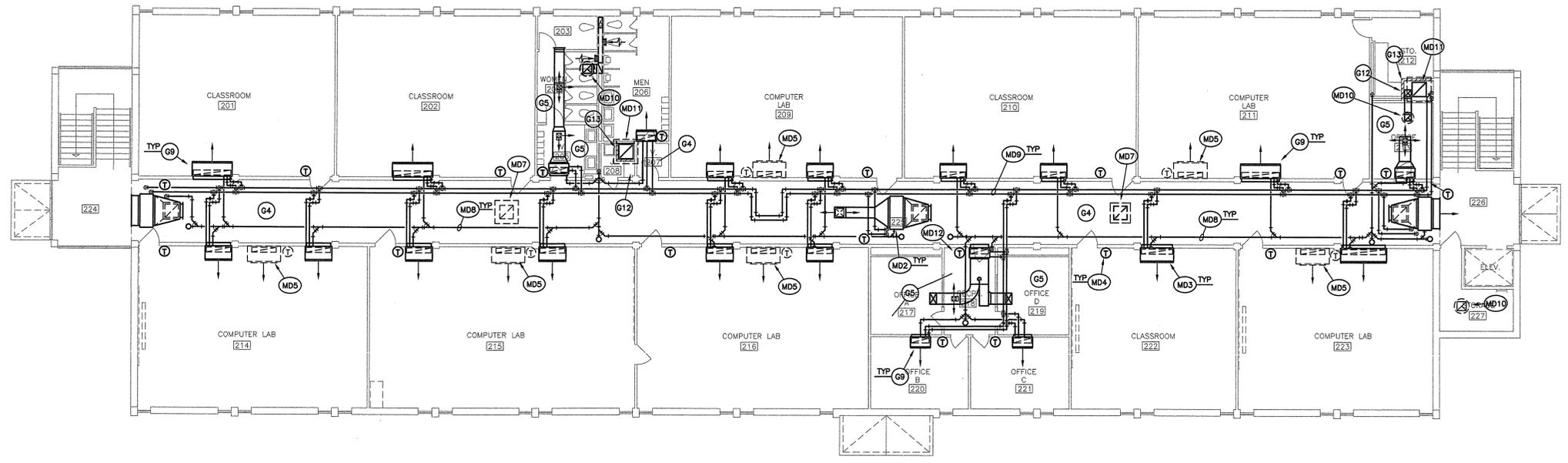
**BUSINESS ADMINISTRATION FIRST FLOOR PLAN - MECHANICAL DEMOLITION**  
 SCALE: 1/8"=1'-0"

- GENERAL NOTES:**
- G1 ALL WORK TO EXTG BUILDING SHALL BE SCHEDULED WITH THE OWNER NOT TO INTERRUPT NORMAL OPERATION OF CAMPUS.
  - G2 CONTRACTOR SHALL PROTECT ALL AREAS NOT SCHEDULED FOR WORK (I.E. FINISHED SPACES, ROOF, FURNITURE, MILLWORK, ETC.)
  - G3 CONTRACTOR SHALL FIELD VERIFY ALL EXTG CONDITIONS AND COORDINATE WORK AND BID WITH SITE SPECIFIC REQUIREMENTS.
  - G4 REMOVE EXTG CEILING GRID/TILE SYSTEM AND LIGHT FIXTURES IN CORRIDOR. COORDINATE WITH OTHER TRADES.
  - G5 REMOVE EXTG SPLINE CEILING SYSTEM AND LIGHT FIXTURES. RETAIN CEILING MATERIALS FOR PATCHING OTHER AREAS. COORDINATE WITH OTHER TRADES.
  - G6 BEFORE THE START OF DEMOLITION, CONTRACTOR SHALL PROVIDE TEMPORARY BARRICADES SUFFICIENT TO SECURE ACCESS TO THE AREAS OF WORK. ALL BARRICADES MUST BE APPROVED BY THE OWNER PRIOR TO INSTALLATION. COORDINATE AS REQUIRED.

- G7 DAMAGE TO THE EXTG BUILDING TO REMAIN, INCLUDING BUT NOT LIMITED TO THE BUILDING EXTERIOR, INTERIOR, FINISHES, ETC. SHALL BE REPAIRED TO ORIGINAL CONDITION AT NO COST TO THE OWNER.
- G8 PROTECT EXTG ROOF DURING DEMOLITION AND CONSTRUCTION. NEW ROOF PENETRATIONS AND REPAIR OF ANY DAMAGE TO THE EXTG ROOF SHALL BE DONE BY A ROOFER APPROVED BY THE ROOF MANUFACTURER TO MAINTAIN THE CURRENT ROOF WARRANTY.
- G9 PATCH ALL EXTG WALLS AND CEILINGS TO REMAIN AFTER REMOVAL OF EXTG ITEMS. PATCHING OF WALLS AND CEILINGS SHALL MATCH SURROUNDING EXTG CONDITIONS.
- G10 REMOVE EXTG SPLINE CLG SYSTEM ABV EXTG LAY-IN CLG AS REQUIRED FOR PATCHING SPLINE CLG IN OTHER AREAS.
- G11 REMOVE ROW OF SHELVING TO ACCOMMODATE NEW WORK. REFINISH TO MATCH EXTG SHELVING.
- G12 REMOVE EXTG MILLWORK/CASEWORK/SHELVING FOR INSTALLATION OF NEW WORK. RETAIN SHELVING AND REINSTALL.
- G13 REMOVE EXTG CHASE WALL FOR INSTALLATION OF NEW WORK.

- MECHANICAL DEMOLITION NOTES:**
- EXTG TO BE REMOVED
  - - - - - EXTG TO REMAIN
  - MD1 CONTRACTOR SHALL FIELD VERIFY EXACT LOCATION, SIZE, ROUTING, ETC. OF ALL EXTG EQUIPMENT, DUCTWORK, PIPING, CONDUIT, ETC. PRIOR TO WORK OF ANY KIND. COORDINATE NEW WORK WITH EXTG CONDITIONS.
  - MD2 REMOVE EXTG FAN COIL UNIT, DUCTWORK, AND THERMOSTAT.
  - MD3 REMOVE EXTG EXPOSED FAN COIL UNIT, THERMOSTAT, DUCTWORK, ETC. PATCH EXTG CEILING AND WALL PENETRATION TO MATCH.
  - MD4 REMOVE EXTG THERMOSTAT. RETAIN EXTG J-BOX FOR REUSE.
  - MD5 EXTG DX FAN COIL UNIT AND CONDENSING UNIT ON ROOF TO REMAIN. PROTECT DURING CONSTRUCTION. COORDINATE EXACT LOCATION W/NEW CONSTRUCTION. RELOCATE AS REQUIRED; PATCH WALL AND CLG TO MATCH SURROUNDING EXTG CONDITIONS.

- MD6 EXTG DX AIR HANDLING UNIT AND CONDENSING UNIT ON GROUND TO REMAIN. PROTECT DURING CONSTRUCTION.
- MD7 REMOVE EXTG ROOF HOOD AND DUCT THRU ROOF TO REMAIN.
- MD8 REMOVE EXTG CONDENSATE DRAIN PIPING.
- MD9 REMOVE EXTG CHILLED/HEATING WATER PIPING AND ACCESSORIES.
- MD10 REMOVE EF ON ROOF. EF CURB TO BE REVISED. REMOVE DUCT WHERE INDICATED.
- MD11 REMOVE EXTG ROOF HOOD AND DUCT THRU ROOF.
- MD12 REMOVE EXTG THERMOSTAT AND PATCH WALL TO MATCH SURROUNDING EXTG CONDITIONS.



**BUSINESS ADMINISTRATION SECOND FLOOR PLAN - MECHANICAL DEMOLITION**  
 SCALE: 1/8"=1'-0"

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**AT**  
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 KILGORE, TEXAS

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SHEET  
**MD1**  
 OF

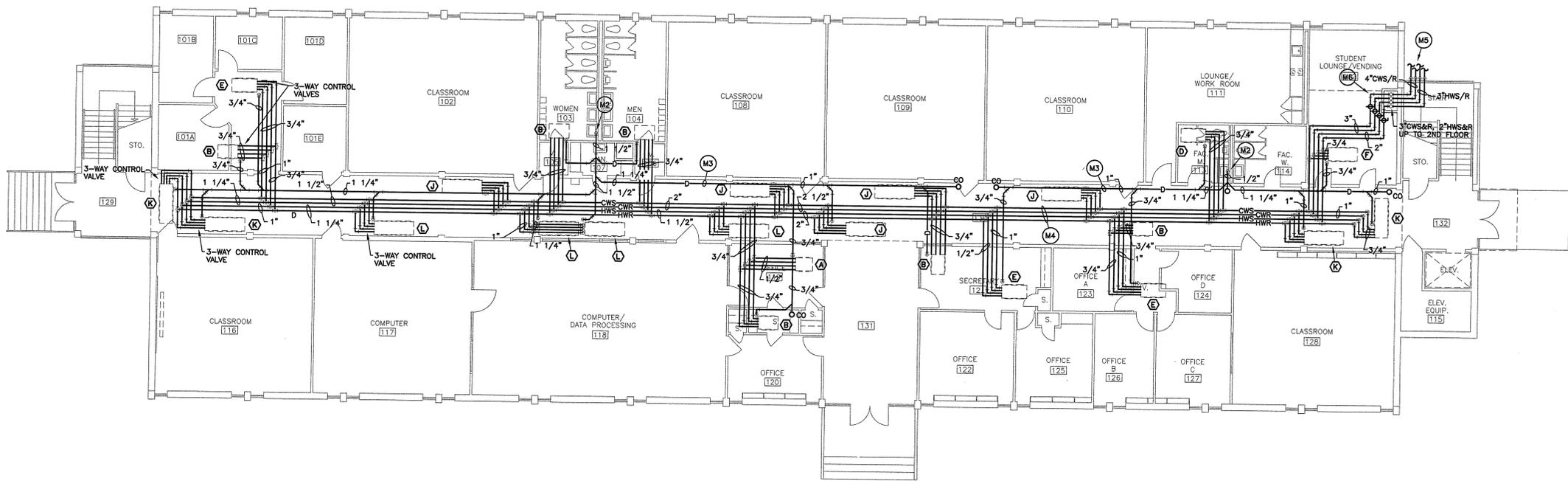






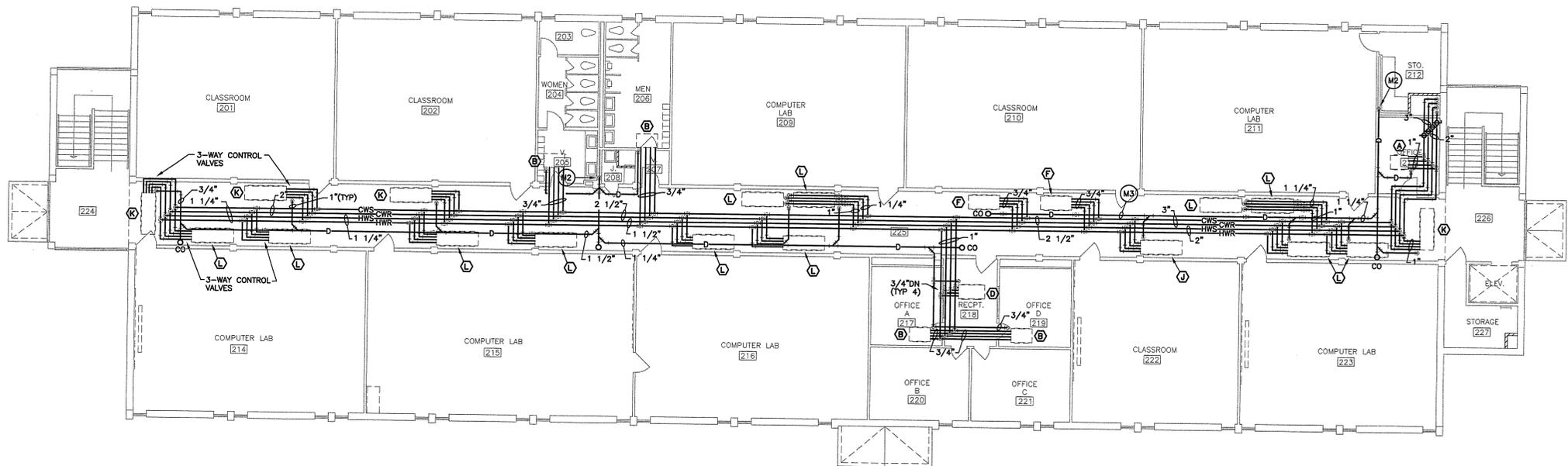
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**BUSINESS ADMINISTRATION FIRST FLOOR PLAN - HVAC PIPING**  
SCALE: 1/8"=1'-0"

- MECHANICAL NOTES:**
- (M1) ALL RUNOUTS TO FCU ARE 1" CWS&R, 3/4" HWS&R UNLESS NOTED OTHERWISE.
  - (M2) TERMINATE CONDENSATE DRAIN PIPING OPEN-SITE AT 2" DEEP-SEAL P-TRAP ABV CLG IN VERTICAL VENT STACK. FIELD VERIFY EXACT LOCATION.
  - (M3) ROUTE CONDENSATE DRAIN PIPING ABOVE CEILING AS SHOWN. COORDINATE PIPE ROUTING WITH FCU'S, DUCTWORK, HYDRONIC PIPING, CONDUIT, ETC. TO ALLOW PROPER SLOPE OF DRAIN PIPING.
  - (M4) ROUTE HYDRONIC PIPING AS HIGH AS POSSIBLE UNDER STRUCTURE TO AVOID CONFLICT W/FCU'S, DUCTWORK AND CONDENSATE DRAIN PIPING. PROVIDE ADDITIONAL OFFSETS, ETC., AS REQUIRED TO ACCOMMODATE HVAC SYSTEM INSTALLATION.
  - (M5) SEE SHEET ME1 FOR CONTINUATION. SLEEVE THRU WALL INTO STORAGE ROOM UNDER LANDING.
  - (M6) ROUTE PIPING TO AVOID EXHAUST DUCT AND O/A DUCT.
  - (M7) PROVIDE 2-WAY CONTROL VALVES FOR EACH FCU UNLESS NOTED OTHERWISE.



**BUSINESS ADMINISTRATION SECOND FLOOR PLAN - HVAC PIPING**  
SCALE: 1/8"=1'-0"

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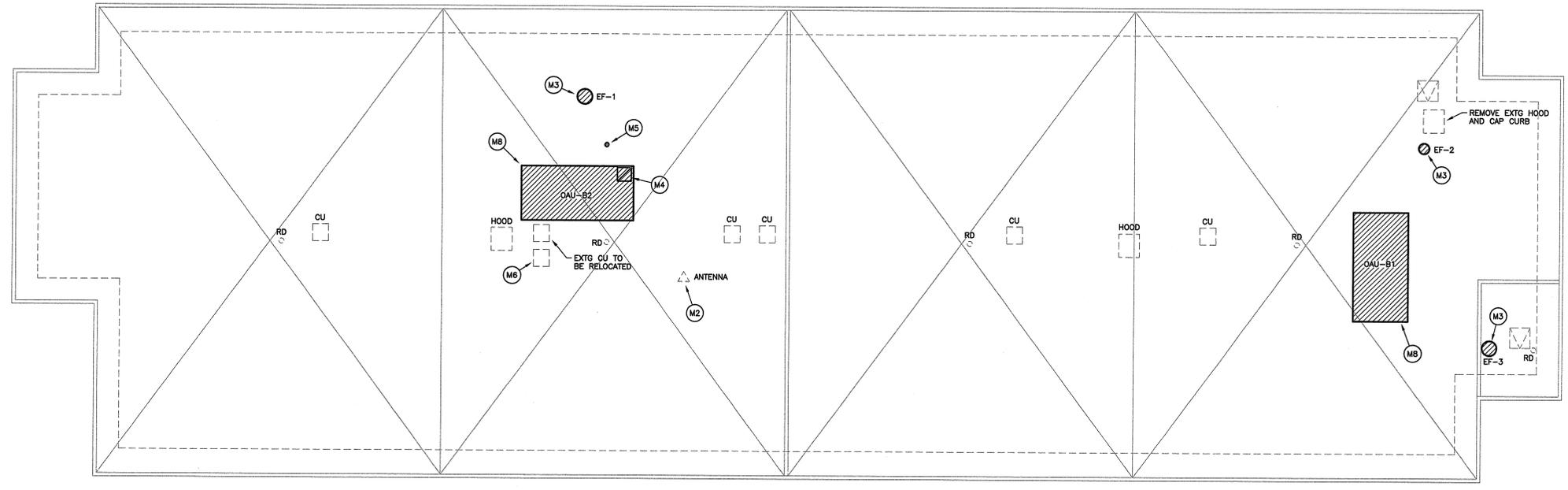
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**M2**  
OF



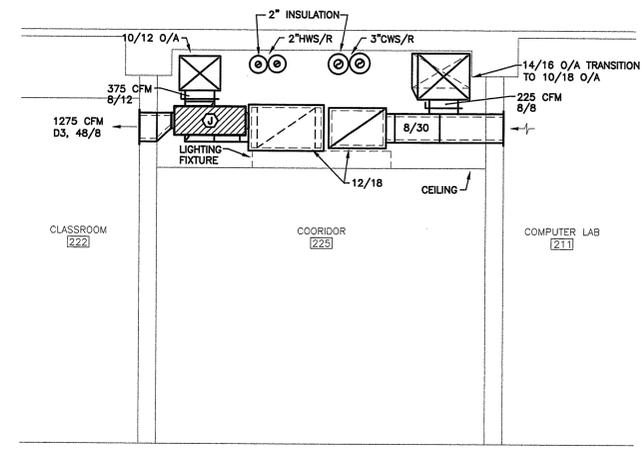
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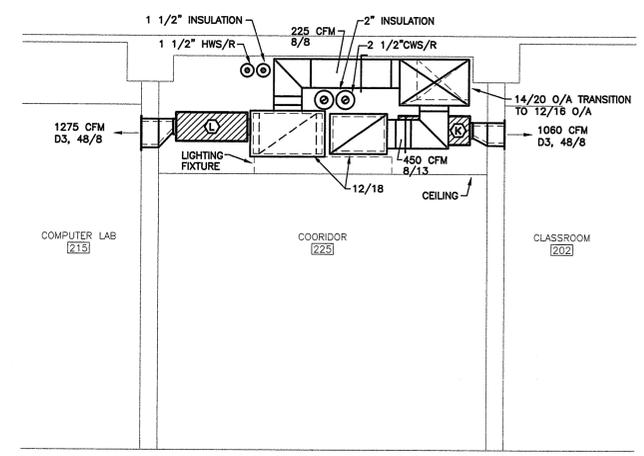


**BUSINESS ADMINISTRATION ROOF PLAN - MECHANICAL**  
SCALE: 1/8"=1'-0"

- 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.



**SECTION 'A'**  
SCALE: 1/2"=1'-0"



**SECTION 'B'**  
SCALE: 1/2"=1'-0"

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OF



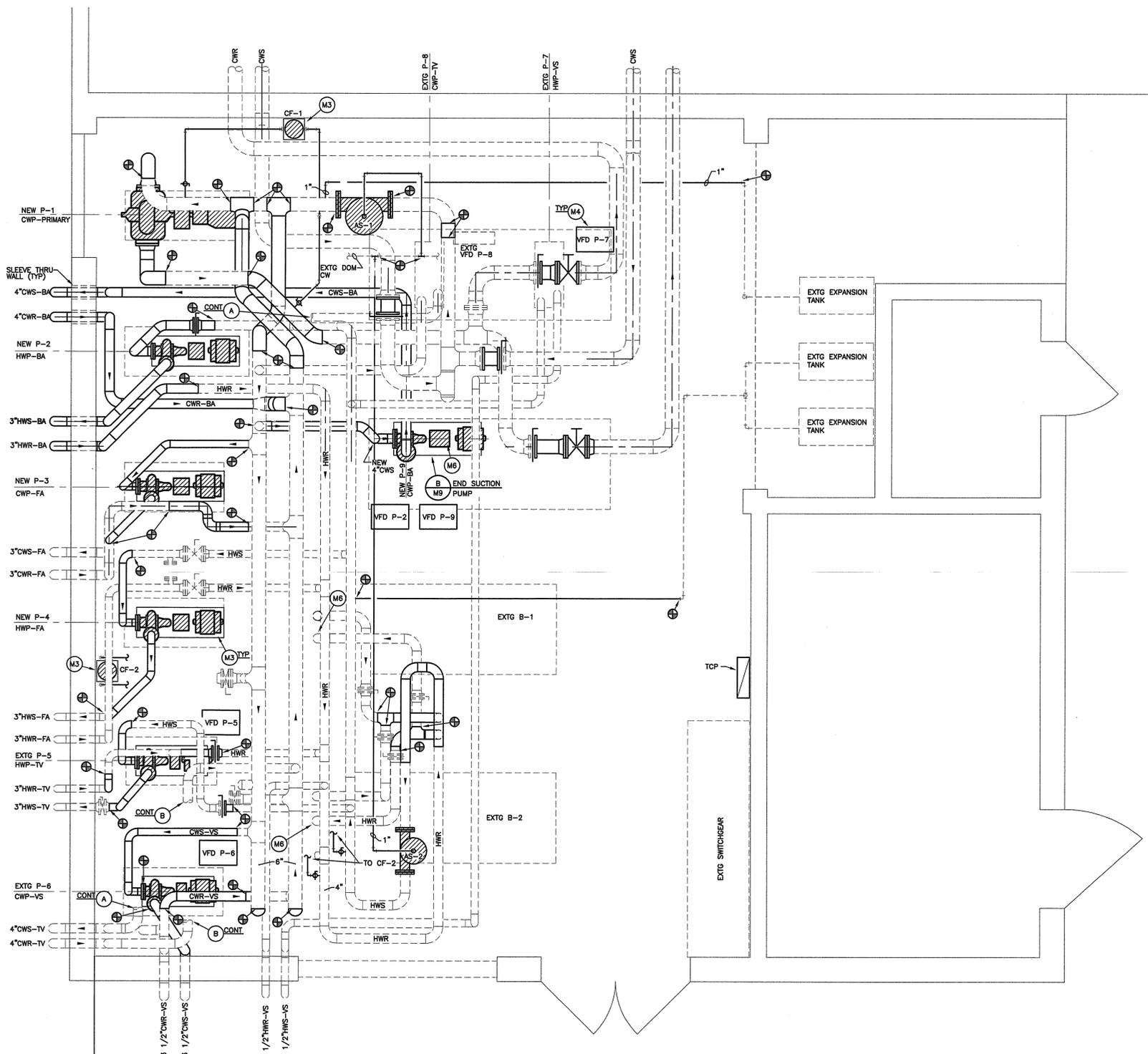
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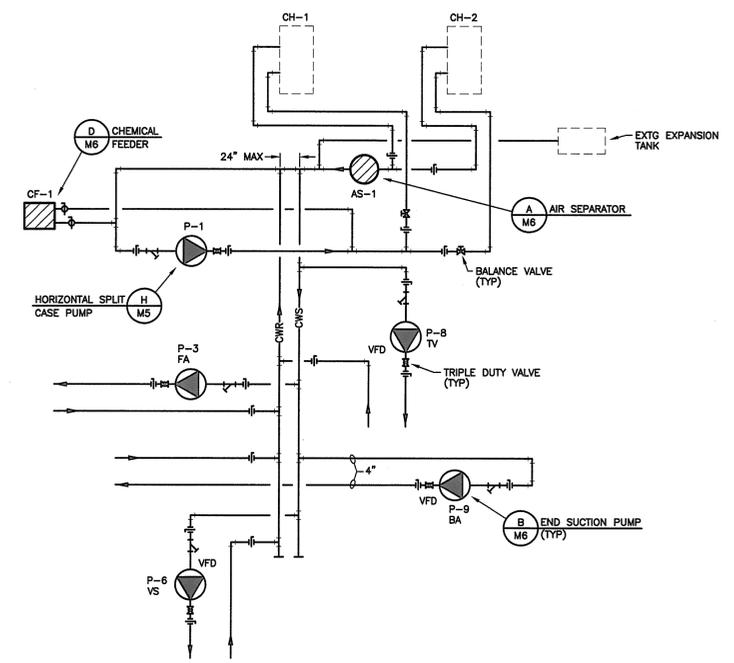
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OF



**CENTRAL PLANT FLOOR PLAN - MECHANICAL**

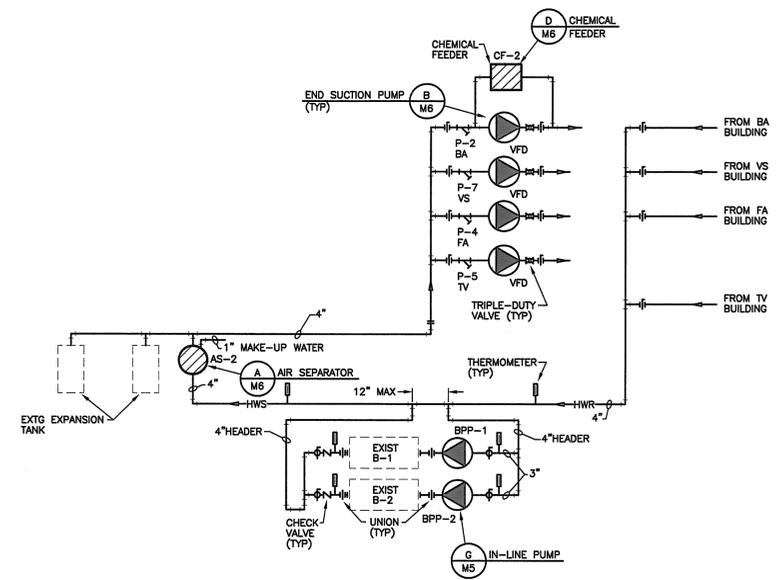
SCALE: 1/2"=1'-0"

- 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 TEMPERATURE CONTROL COMPONENTS FOR OPERATION OF THE CHILLED WATER AND HEATING WATER SYSTEMS SHALL BE 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**

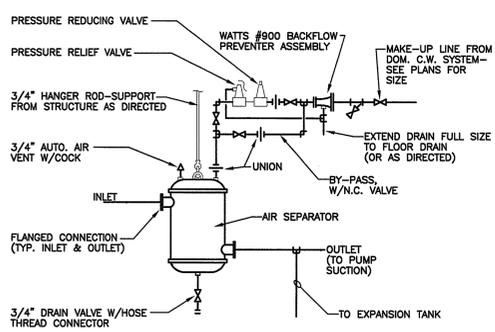
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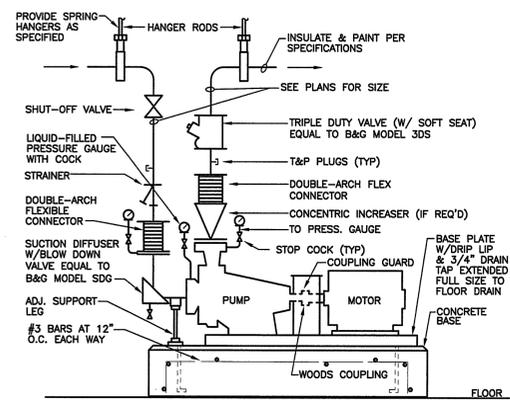


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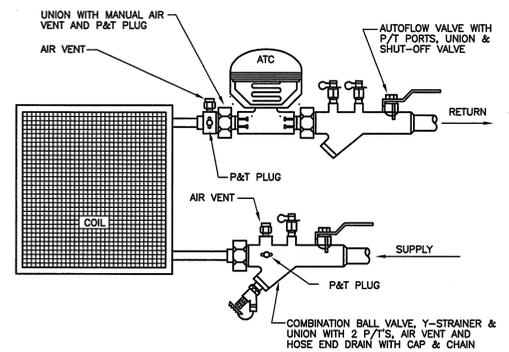
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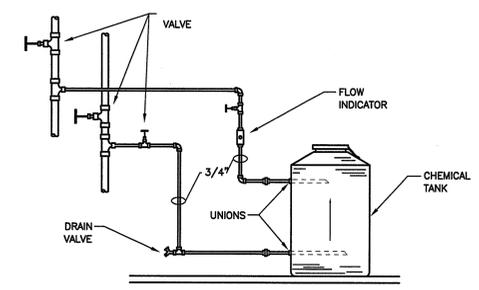
**A** DETAIL - AIR SEPARATOR  
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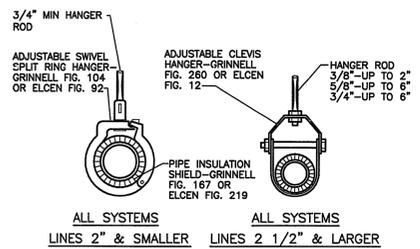
**B** DETAIL - END SUCTION PUMP  
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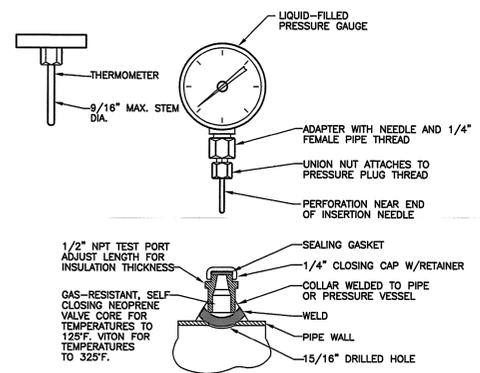
**C** DETAIL - 2-WAY HEATING & COOLING COILS  
NO SCALE



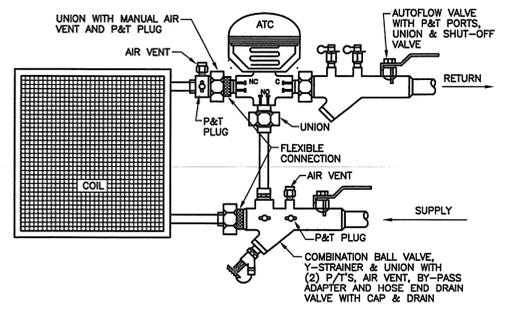
**D** DETAIL - CHEMICAL FEEDER  
NO SCALE  
NOTE: SUPPORT TANK FROM WALLS WITH BRACKETS OR FLOOR MOUNT ON 4\"/>



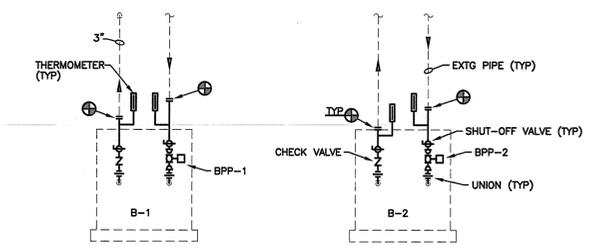
**E** DETAIL - PIPE SUPPORTS  
NO SCALE



**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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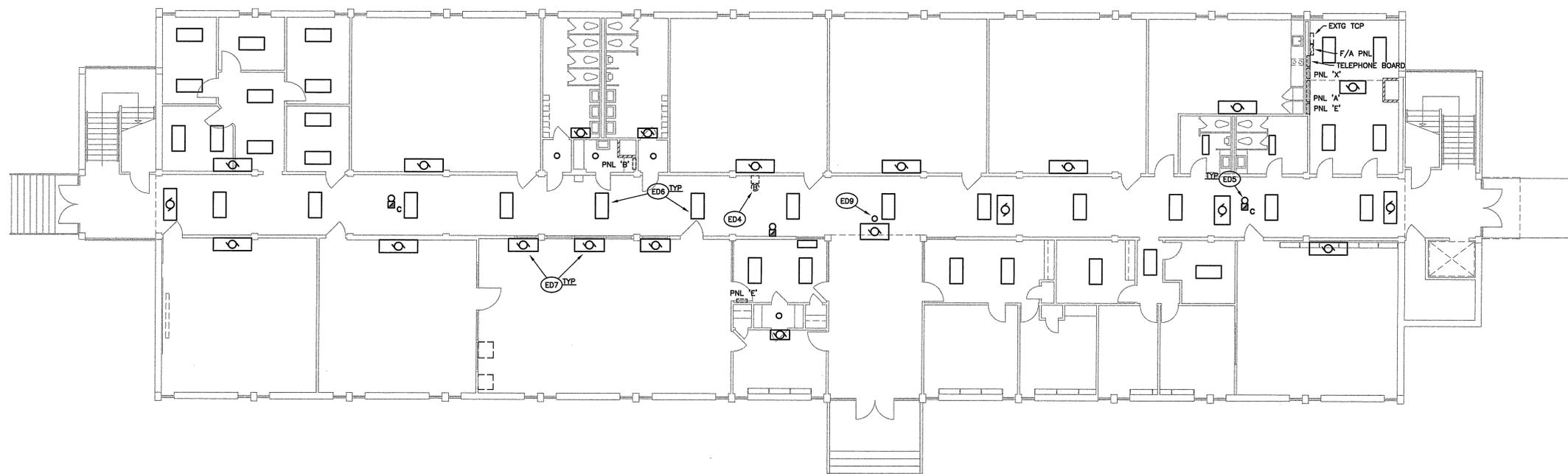
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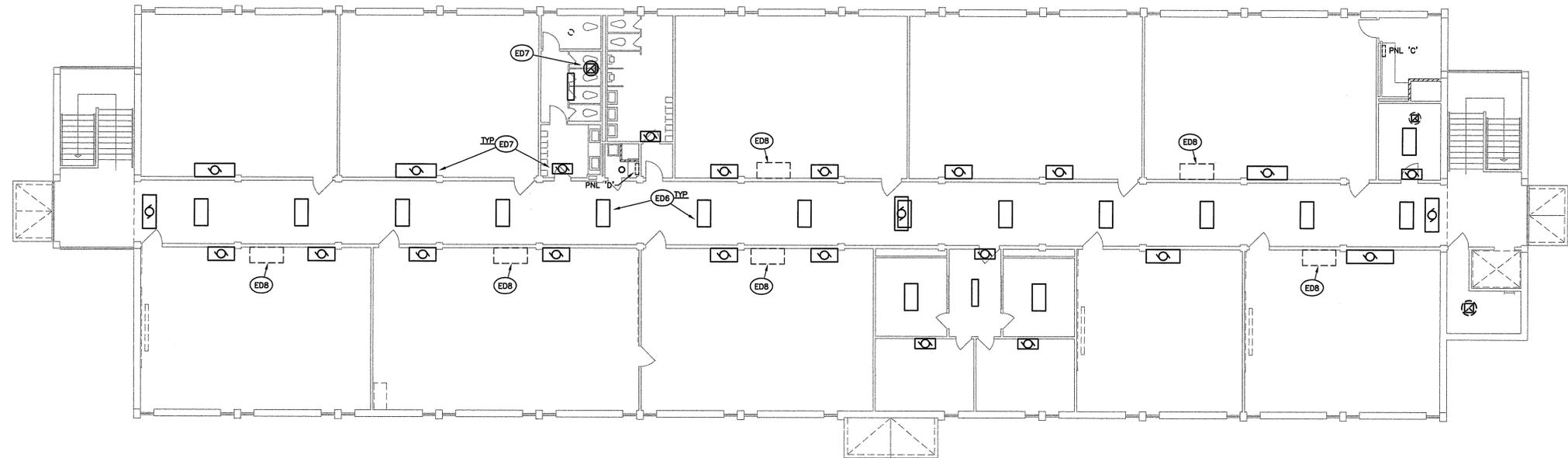
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SHEET  
**ED1**  
OF



**BUSINESS ADMINISTRATION FIRST FLOOR PLAN - ELECTRICAL DEMOLITION**  
SCALE: 1/8"=1'-0"  
N

- ELECTRICAL DEMOLITION NOTES:**
- EXTG TO BE REMOVED
  - - - - - EXTG TO REMAIN
  - ED1 CONTRACTOR SHALL FIELD VERIFY EXACT SIZE, LOCATION, ELEV, ETC. OF EXTG UTILITIES, EQUIPMENT, CONDUIT, WIRING, ETC. PRIOR TO BID AND START OF DEMOLITION.
  - ED2 CONTRACTOR SHALL REPAIR OR REPLACE ANY CIRCUITS INTERRUPTED DAMAGED BY DEMOLITION OUTSIDE OF CONSTRUCTION AREAS.
  - ED3 REMOVE EXTG LIGHT FIXTURE AND ASSOCIATED BRANCH CIRCUIT, CONDUIT, ETC. RETURN LIGHT FIXTURES TO OWNER.
  - ED4 REMOVE EXTG PROGRAM BELL. STORE TO PROTECT FROM DAMAGE. BELL TO BE REINSTALLED.
  - ED5 REMOVE EXTG FIRE ALARM DEVICE.
  - ED6 DISCONNECT AND REMOVE EXTG LIGHTING FIXTURE AND CONDUCTORS TO SOURCE.
  - ED7 DISCONNECT AND REMOVE EXTG HVAC EQUIP AND CONDUCTORS TO SOURCE. CONDUITS SHALL BE REUSED WHERE POSSIBLE FOR NEW FAN COIL UNITS.
  - ED8 RELOCATE EXTG FAN COIL UNITS AS REQUIRED. COORDINATE EXACT REQUIREMENTS WITH MECH CONTRACTOR.
  - ED9 REMOVE EXTG ALARM. REMOVE CONDUIT AND CONDUCTORS TO SOURCE.



**BUSINESS ADMINISTRATION SECOND FLOOR PLAN - ELECTRICAL DEMOLITION**  
SCALE: 1/8"=1'-0"  
N



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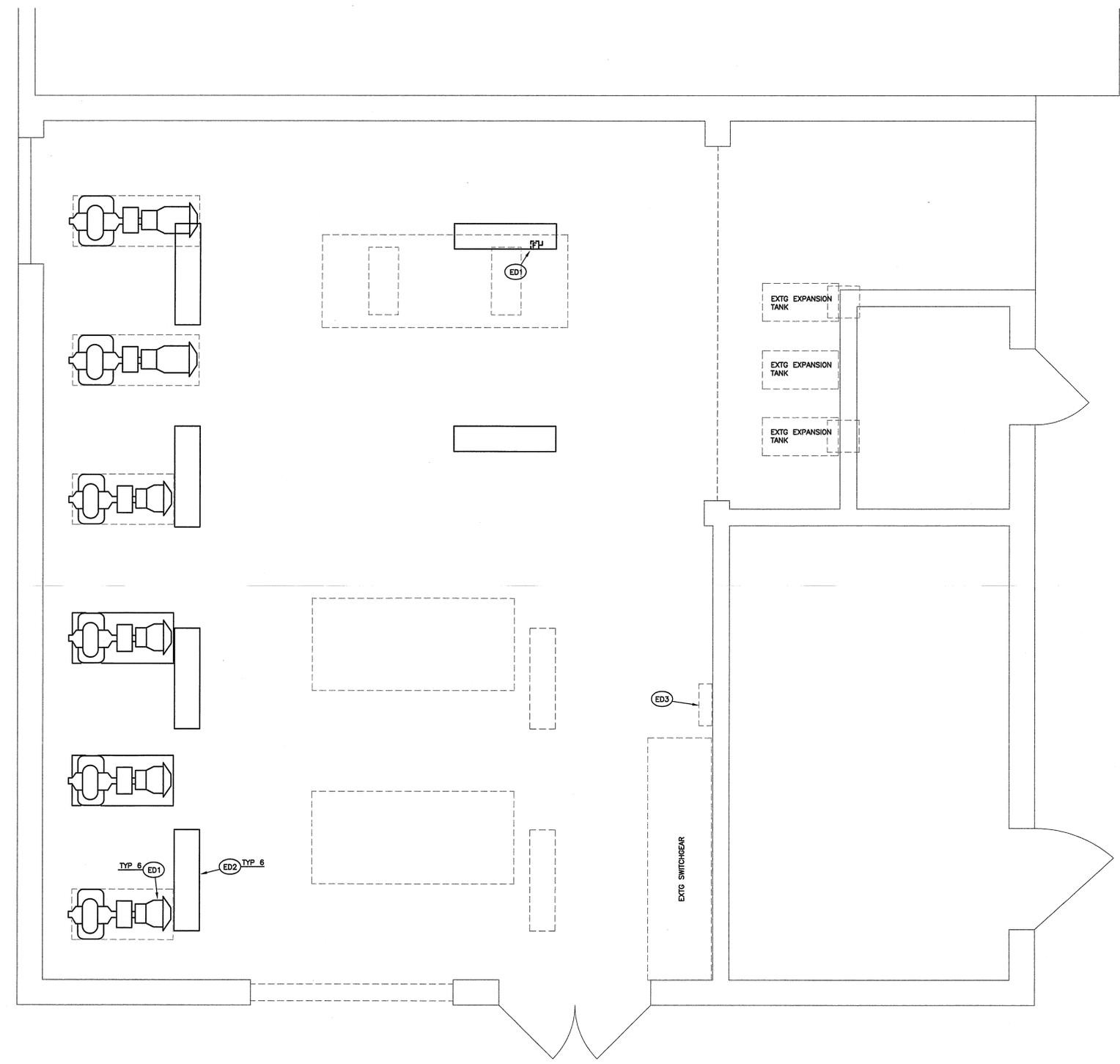
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SHEET  
**ED2**  
OF

- 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.



**CENTRAL PLANT FLOOR PLAN - ELECTRICAL DEMOLITION**

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



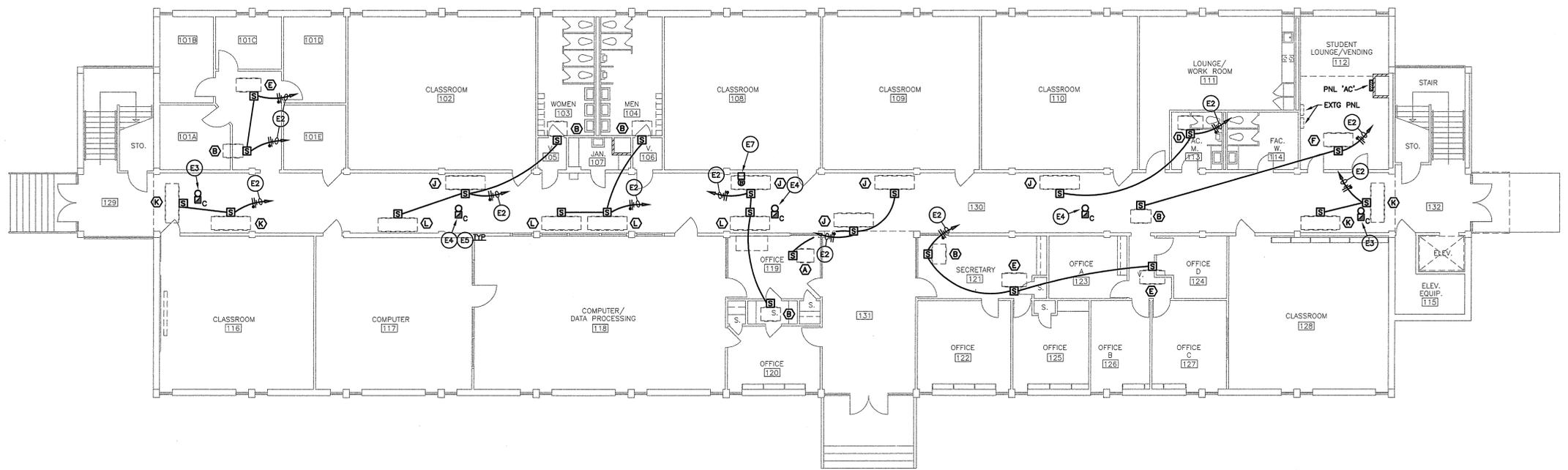
**PURTLE AND ASSOCIATES**  
**MECHANICAL AND ELECTRICAL ENGINEERS**  
701 TEXAS ST.  
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**BUSINESS ADMINISTRATION BUILDING**  
**HVAC RENOVATION**  
**KILGORE COLLEGE**  
KILGORE, TEXAS

NO.	DATE	REVISIONS

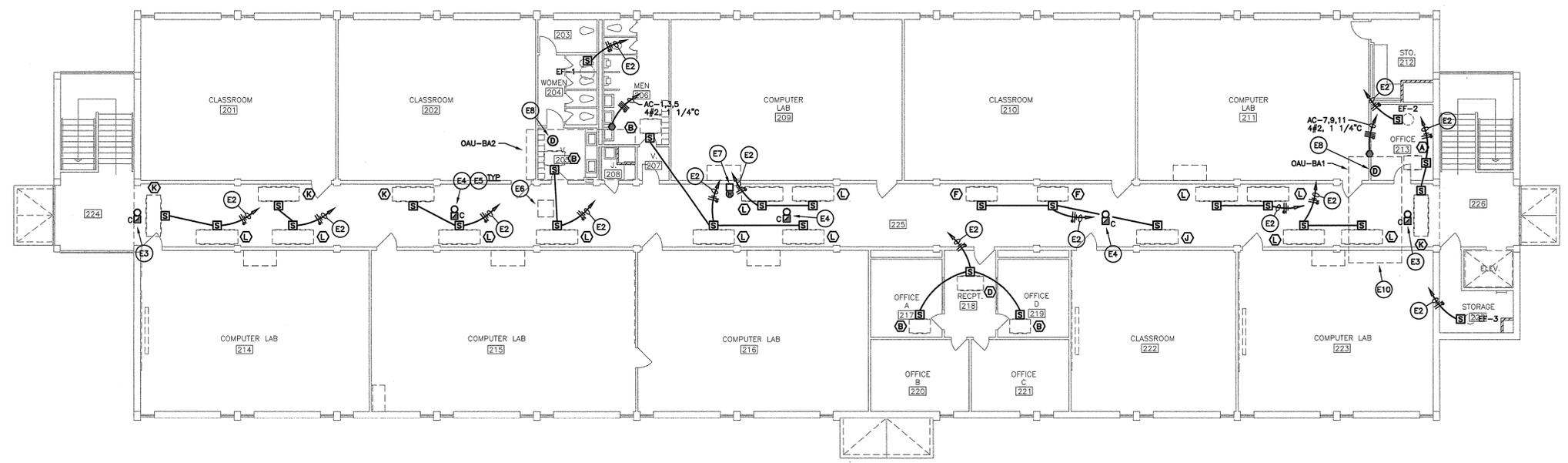
JOB NO: 5080  
DWN BY: TRP  
DATE: APR 25, 2005  
SCALE: AS NOTED

SHEET  
**E1**  
OF



**BUSINESS ADMINISTRATION FIRST FLOOR PLAN - POWER**  
SCALE: 1/8"=1'-0"

- ELECTRICAL NOTES:**
- (E1) COORDINATE THE EXACT LOCATION OF ALL FAN COIL UNITS W/MECHANICAL CONTRACTOR. REUSE EXTG 120V BRANCH CIRCUITS.
  - (E2) EXTEND AND CONNECT CONDUIT AND CONDUCTORS TO NEAREST 120V PANELBOARD. PROVIDE 1P-20A CIRCUIT BREAKER FOR EACH HOMERUN. REUSE EXISTING CONDUIT AND 1P-20A CIRCUIT BREAKERS WHERE POSSIBLE. FIELD VERIFY PANELBOARD CAPACITY PRIOR TO BID. CONTRACTOR SHALL PROVIDE ADDITIONAL PANELBOARDS, FEEDERS, AND CIRCUIT BREAKERS TO PROVIDE THE REQUIRED 120V CIRCUITS.
  - (E3) PROVIDE NEW ADDITIONAL FIRE ALARM A/V DEVICE. EXTEND AND CONNECT TO EXTG FIRE ALARM SYSTEM. MATCH EXTG DEVICES.
  - (E4) PROVIDE CLG MOUNTED FIRE ALARM DEVICE TO REPLACE EXTG CEILING OR WALL MOUNTED DEVICE. EXTEND AND CONNECT TO EXTG FIRE ALARM SYSTEM. MATCH EXTG DEVICES.
  - (E5) ALL DEVICES INSTALLED ON EXTG WALLS SHALL BE FLUSH MOUNTED INTO THE WALL W/NO WIREMOLD, EXPOSED CONDUIT OR RACEWAY. PATCH TO MATCH THE EXTG WALL.
  - (E6) EXTEND AND CONNECT CONDUIT AND CONDUCTORS FOR RELOCATED CONDENSING UNIT. COORDINATE W/MECHANICAL CONTRACTOR.
  - (E7) RELOCATE PROGRAM BELL BELOW NEW CEILING.
  - (E8) EXTEND AND CONNECT DUCT DETECTORS TO EXTG FIRE ALARM SYSTEM.
  - (E9) COORDINATE NEW RECESSED PANEL LOCATION WITH NEW WALL FURRING.
  - (E10) CONTRACTOR SHALL COORDINATE THE LOCATION OF OAU-B1 WITH EXTG CONDUITS FEEDING ROOF MOUNTED CONDENSING UNITS. REROUTE CONDUITS AS REQUIRED. FIELD VERIFY EXACT REQUIREMENTS PRIOR TO BID.



**BUSINESS ADMINISTRATION SECOND FLOOR PLAN - POWER**  
SCALE: 1/8"=1'-0"



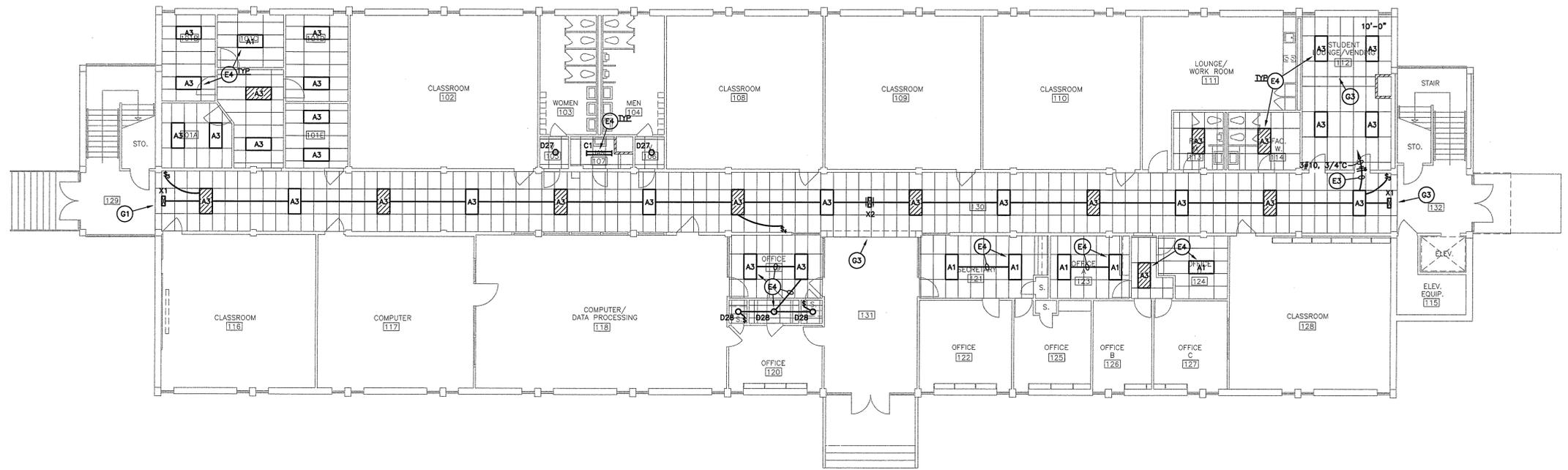
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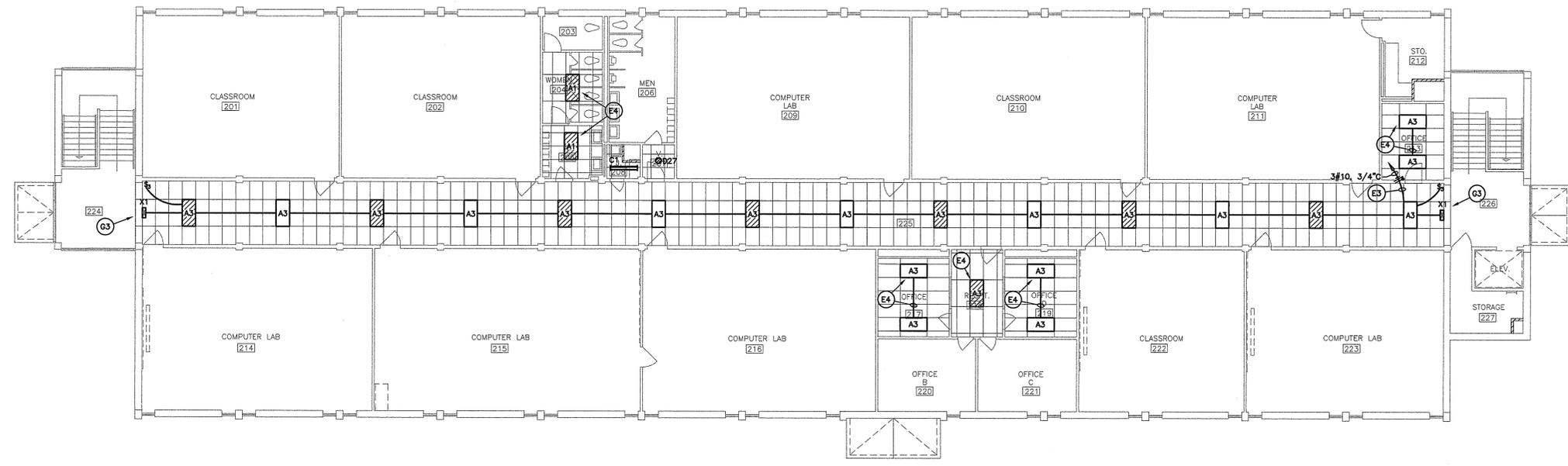
SHEET  
**E2**  
OF



**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.



**BUSINESS ADMINISTRATION SECOND FLOOR PLAN - LIGHTING**  
SCALE: 1/8"=1'-0"





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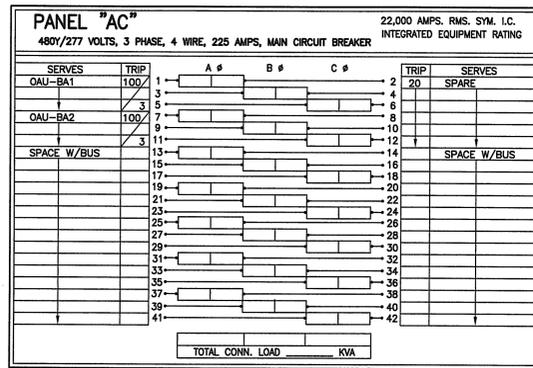
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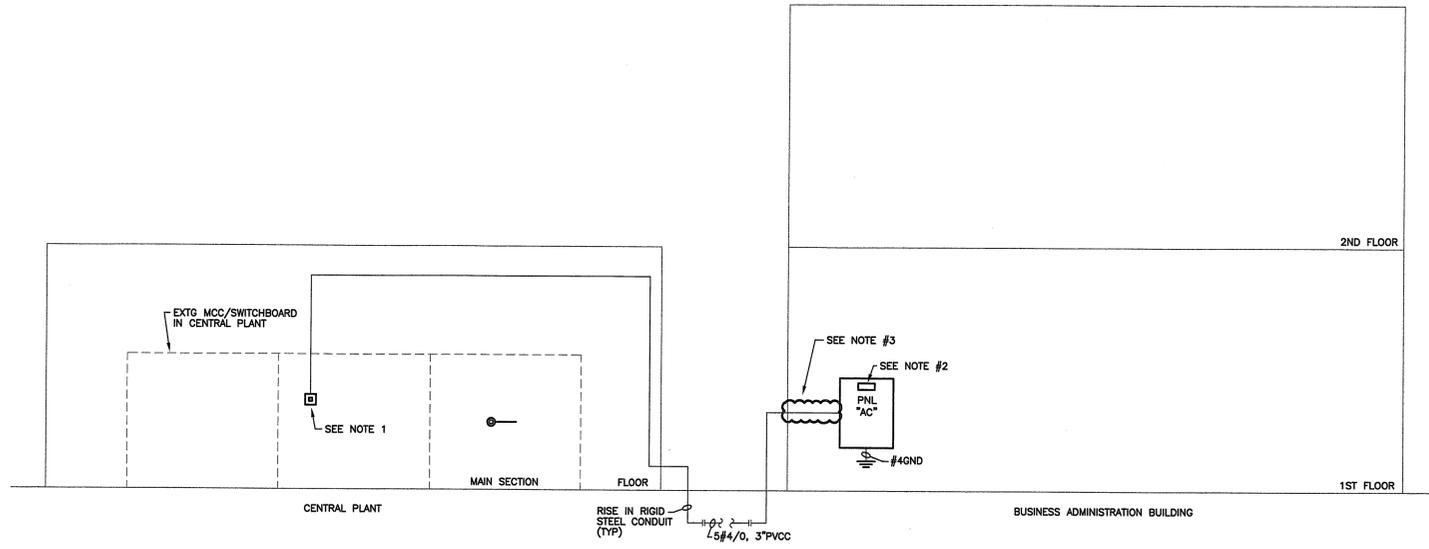
JOB NO: 5080  
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SHEET  
**E4**  
 OF

MARK	TYPE	MOUNTING	MANUFACTURER CATALOG NO.	LAMPS QTY & TYPE	DESCRIPTION	ALTERNATE MANUFACTURER
A1	2 x 4 TROFFER 4-LAMP LENSED	CEILING RECESSED GRID	COLUMBIA 4PS24-432G- FSA12.125M-EB8LH	(4) F32T8/SPX35	.125 MIN THK LENS WITH ELECTRONIC BALLAST - FLAT WHITE STEEL DOOR	DAVBRITE 20A333P11 2MB10 LIGHTOLIER SP2669SM332000H4
A3	2 x 4 TROFFER 3-LAMP LENSED	CEILING RECESSED GRID	COLUMBIA 4PS24-432G- FSA12.125M-EB8LH	(3) F32T8/SPX35	.125 MIN THK LENS WITH ELECTRONIC BALLAST - FLAT WHITE STEEL DOOR	DAVBRITE 20A333P11 2MB10 LIGHTOLIER SP2669SM332000H4
C1	4' 2-LAMP STRIP	SURFACE CHAIN PENDANT	COLUMBIA CS4-232-EB8LH	(2) F32T8/SPX35	WIDE FINISH ELECTRONIC BALLAST	DAVBRITE T232B210 LIGHTOLIER SWS4232HF120H
D27	PL VERTICAL OPEN DOWNLIGHT	RECESSED	PRESCOLITE CF1842EB-WT0- 802/824	(1) 42 WATT PLT	WHITE METAL TRIM RING 8" APERTURE WITH BAR HANGERS	CAPRI CMFV42LV85
D28	FLUORESCENT DRUM	SURFACE	LIGHTOLIER 6750WH213U	(2) 13W PL	INJECTION MOLDED ACRYLIC LENS, DIE-FORMED ALUM HSG TWISTLOCK FASTENING, ELEO BALLAST	LUMAX SP21314CE105
X1	DIECAST EXIT SINGLE FACE	UNIVERSAL MOUNT	PRESCOLITE DMX1REBBA	LED® RED	NICAD BATTERY - MATTE BLACK HOUSING - BRUSHED ALUMINUM FACE, SELF-DIAGNOSTIC	ISOLITE LPS06DR8KBAC LIGHTOLIER LNG1060
X2	DIECAST EXIT DOUBLE FACE	UNIVERSAL MOUNT	PRESCOLITE DMX2REBBA	LED® RED	NICAD BATTERY - MATTE BLACK HOUSING - BRUSHED ALUMINUM FACE, SELF-DIAGNOSTIC	ISOLITE LPS06DR8KBAC LIGHTOLIER LNG2060



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
⊙	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.