

HVAC SYMBOL LEGEND

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|--|---|
| | DUCT SECTION, EXHAUST |
| | DUCT SECTION, RETURN |
| | DUCT SECTION, SUPPLY |
| | DIRECTION OF AIRFLOW |
| | SUPPLY AIR DEVICE - DOUBLE LINE |
| | SUPPLY AIR DEVICE WITH PLENUM BOOT - DOUBLE LINE |
| | RETURN AIR DEVICE WITH PLENUM BOOT - DOUBLE LINE |
| | RECTANGULAR DUCT ELBOW WITH TURNING VANES |
| | VOLUME DAMPER |
| | MOTOR OPERATED DAMPER |
| | BACKDRAFT DAMPER |
| | FIRE DAMPER, PROVIDE ACCESS DOOR WHERE SHOWN |
| | FIRE & SMOKE DAMPER, PROVIDE ACCESS DOOR WHERE SHOWN |
| | SMOKE DAMPER, PROVIDE ACCESS DOOR WHERE SHOWN |
| | DUCT SMOKE DETECTOR |
| | DUCT HEAT DETECTOR |
| | HUMIDISTAT |
| | THERMOSTAT OR TEMPERATURE SENSOR |
| | COMBINATION THERMOSTAT / HUMIDITY / CO ₂ |
| | OCCUPANCY SENSOR |
| | CO ₂ SENSOR |
| | STATIC DIFFERENTIAL PRESSURE SENSOR |
| | STATIC PRESSURE SENSOR |
| | CHANGE OF DIRECTION, RISE (R), DROP (D) |
| | ACCESS DOORS, VERTICAL OR HORIZONTAL (MINIMUM SIZE INDICATED) |
| | FLEXIBLE CONNECTION |
| | TRANSITION |
| | HOT WATER DUCT COIL (HWC) |
| | ELECTRIC DUCT HEATER (EDH) |
| | PUMP |
| | HASHMARK FOR PIPING BELOW SLAB DEMO (DASHED-HEAVY LINE) |
| | EXISTING (LIGHT SOLID LINE) |
| | CHILLED WATER SUPPLY |
| | CHILLED WATER RETURN |
| | REFRIGERATION - HOT GAS DISCHARGE |
| | HEATING WATER SUPPLY |
| | HEATING WATER RETURN |
| | RE-HEATING WATER SUPPLY |
| | RE-HEATING WATER RETURN |
| | CONDENSATE DRAIN (AIR CONDITIONING) |
| | PUMPED CONDENSATE |
| | INDIRECT WASTE |
| | REFRIGERATION - HIGH PRESSURE LIQUID |
| | REFRIGERATION - LOW PRESSURE SUCTION |
| | DIFFUSER, GRILLE, REGISTER TAG |

MECHANICAL ABBREVIATIONS

| | | | |
|----------|--|--------|--|
| AB | ABOVE | H | HUMIDITY |
| AD | ACCESS DOOR OR AREA DRAIN | HC | HEATING CONTRACTOR |
| ADP | APPARATUS DEW POINT | HD | HEAD |
| AFF | ABOVE FINISHED FLOOR | HGT | HEIGHT |
| AFG | ABOVE FINISHED GRADE | HP | HORSEPOWER |
| AFUE | ANNUAL FUEL UTILIZATION EFFICIENCY | HR | HOUR(S) |
| AGA | AMERICAN GAS ASSOCIATION | HUM | HUMIDIFIER |
| AHA | AUTHORITY HAVING JURISDICTION | HW | HOT WATER |
| AHU | AIR HANDLING UNIT | HZ | HERTZ |
| AMBI | AMBIENT | ID | INSIDE DIAMETER |
| AMP | AMPERES | IN WC | INCHES WATER COLUMN |
| ANSI | AMERICAN NATIONAL STANDARDS INSTITUTE | INV | INVERT |
| APD | AIR PRESSURE DROP | IN WGS | INCHES WATER GAGE |
| ASHRAE | AMERICAN SOCIETY OF HEATING REFRIGERATING AND AIR-CONDITIONING ENGINEERS | IW | INDIRECT WASTE |
| ASPE | AMERICAN SOCIETY OF PLUMBING ENGINEERS | JS | JANITORS SINK |
| ATC | ABOVE GROUND STORAGE TANK | KW | KILOWATT |
| ATCC | AUTOMATIC TEMPERATURE CONTROL | KWH | KILOWATT HOUR |
| AVG | AVERAGE | L | LEAVING AIR TEMPERATURE |
| AWG | AMERICAN WIRE GAGE | LAV | LAVATORY |
| AWT | AVERAGE WATER TEMPERATURE | LF | LINEAR FEET |
| AWWA | AMERICAN WATER WORKS ASSOCIATION | LD | LINEAR DIFFUSER |
| BAS | BUILDING AUTOMATION SYSTEM | LBS | POUNDS |
| BD | BALANCING DAMPER | LRA | LOCKED ROTOR AMPERES |
| BF | BLIND FLANGE | LWT | LEAVING WATER TEMPERATURE |
| BS | BIRDSCREEN | MIA | MIXED AIR |
| BDD | BACKDRAFT DAMPER | MAX | MAXIMUM |
| BTU | BRITISH THERMAL UNIT | MBH | 1,000 BTUH |
| BTUH | BRITISH THERMAL UNITS PER HOUR | MMBH | 1,000,000 BTUH |
| BHP | BRAKE HORSEPOWER | MC | MECHANICAL CONTRACTOR |
| CA | COMMISSIONING AGENT OR AUTHORITY | MD | MOTORIZED DAMPER |
| CCO | CEILING CLEANOUT | MFR | MANUFACTURER |
| CFM | CUBIC FEET PER MINUTE | MIN | MINIMUM |
| CI | CAST IRON | MOD | MOTOR OPERATED DAMPER |
| CLG | CEILING | MR | MOP RECEPTOR |
| CONN | CONNECTION | MTD | MOUNTED |
| CONT | CONTINUATION | N/A | NOT APPLICABLE |
| CONV | CONVECTOR | NC | NORMALLY CLOSED |
| COP | COEFFICIENT OF PERFORMANCE | NIC | NOT IN CONTRACT |
| CU FT | CUBIC FEET | NG | NATURAL GAS |
| CU IN | CUBIC INCH | NO | NORMALLY OPEN |
| CW | COLD WATER | NP | NON-POTABLE |
| *C | DEGREES CELSIUS | NTS | NOT TO SCALE |
| *F | DEGREES FAHRENHEIT | O/A | OUTSIDE AIR |
| Ø | DIAMETER | OD | OUTSIDE DIAMETER OR OVERFLOW DRAIN |
| D | DRYER, APPLIANCE | OED | OPEN END DUCT |
| DB | DRY BULB | OZ | OUNCE |
| DBP | DOMESTIC BOOSTER PUMP | P | PUMP |
| DF | DRINKING FOUNTAIN | PC | PLUMBING CONTRACTOR |
| DHRP | DOMESTIC HOT WATER RETURN PUMP | PD | PRESSURE DROP |
| DIR | DIRECT | PH | PHASE |
| DN | DOWN | PPM | PARTS PER MILLION |
| DP | DOMESTIC PUMP | PRV | PRESSURE REDUCING VALVE |
| DR | DRAIN | PSI | POUNDS PER SQUARE INCH |
| DWG | DRAWING | PSIG | POUNDS PER SQUARE INCH GAUGE |
| DX | DIRECT EXPANSION | PT | PRESSURE/TEMPERATURE TEST PORT |
| (E) | EXISTING | PVC | POLYVINYLCHLORIDE |
| E/A | EXHAUST AIR | (R) | RELOCATED |
| EAT | ENTERING AIR TEMPERATURE | R/A | RETURN AIR |
| EC | ELECTRICAL CONTRACTOR | RD | ROOF DRAIN |
| EER | ENERGY EFFICIENCY RATIO | REQ'D | REQUIRED |
| EFF | EFFICIENCY | RH | RELATIVE HUMIDITY |
| ELEV | ELEVATION | RLA | RUNNING LOAD AMPS |
| ESP | EXTERNAL STATIC PRESSURE | RPM | REVOLUTIONS PER MINUTE |
| ETR | EXISTING TO REMAIN | RX | REMOVE EXISTING |
| EWC | ELECTRIC WATER COOLER | S | SINK |
| EWH | ELECTRIC WATER HEATER | SA | SUPPLY AIR |
| EWT | ENTERING WATER TEMPERATURE | SATC | SUSPENDED ACOUSTICAL TILE CEILING |
| EXT, F&B | EXTERNAL FACE & BYPASS | SF | SQUARE FEET |
| EXP | EXPANSION | S/FD | SMOKE/FIRE DAMPER |
| FA | FREE AREA | SH | SHOWER |
| FAS | FIRE ALARM SYSTEM | SI | SOLIDS INTERCEPTOR |
| FC | FLEXIBLE CONNECTION | SMACNA | SHEET METAL AND AIR CONDITIONING CONTRACTORS' NATIONAL ASSOCIATION |
| FD | FLOOR DRAIN OR FIRE DAMPER | SP | STATIC PRESSURE |
| FLA | FULL LOAD AMPERES | T | TEMPERATURE |
| FLR | FLOOR | TBR | TO BE REMOVED |
| FMS | FACILITY MANAGEMENT SYSTEM | TCC | TEMPERATURE CONTROL CONTRACTOR |
| FOS | FUEL OIL SUPPLY | TD | TRENCH DRAIN |
| FOR | FUEL OIL RETURN | THA | TOTAL HEAT ADDED |
| FPC | FIRE PROTECTION CONTRACTOR | TP | TEST PORT |
| FPI | FINS PER INCH | TSP | TOTAL STATIC PRESSURE |
| FPM | FEET PER MINUTE | TSTAT | THERMOSTAT |
| FPS | FIRE PROTECTION SYSTEM | TT | TEMPERATURE TRANSMITTER |
| FS | FLOOR SINK | TYP | TYPICAL |
| FT | FEET OR FOOT | UNO | UNLESS NOTED OTHERWISE |
| FT LB | FOOT POUND | UST | UNDERGROUND STORAGE TANK |
| GA | GAUGE | UR | URINAL |
| GAL | GALLONS | V | VENT |
| GALV | GALVANIZED | VAV | VARIABLE AIR VOLUME |
| GC | GENERAL CONTRACTOR | VBFB | VENT BELOW FLOOR |
| GI | GREASE INTERCEPTOR | VTR | VENT THROUGH ROOF |
| GPH | GALLONS PER HOUR | W | WASHER, APPLIANCE OR WASTE |
| GPM | GALLONS PER MINUTE | WB | WET BULB |
| GRD | GRILLES, REGISTERS, & DIFFUSERS | WC | WATER CLOSET |
| GWH | GAS WATER HEATER | WPD | WATER PRESSURE DROP |

NOTE: NOT ALL SYMBOLS AND ABBREVIATIONS MAY BE USED.

GENERAL DEMOLITION NOTES:

- THE DEMOLITION PLANS AND NOTES HAVE BEEN PREPARED TO ASSIST THE CONTRACTORS IN IDENTIFYING THE AREAS AND ITEMS OF DEMOLITION AND RENOVATION ASSOCIATED WITH THIS PROJECT. THE INFORMATION PROVIDED IS NOT MEANT TO BE ALL-INCLUSIVE IN TERMS OF LISTING EACH AND EVERY SPECIFIC TASK TO BE PERFORMED. EACH CONTRACTOR WILL THOROUGHLY EXAMINE ALL CONTRACT DOCUMENTS PRIOR TO PERFORMING ANY WORK.
- DEMOLITION WORK INCLUDES, BUT IS NOT LIMITED TO, THE ITEMS INDICATED ON THE DEMOLITION DRAWINGS AND DESCRIBED IN THE DEMOLITION NOTES. THE EXTENT OF THE DEMOLITION WORK WILL INCLUDE ALL WORK REQUIRED TO COMPLETE THE PROJECT AND ENSURE WHETHER OR NOT THE WORK IS INDICATED ON THE DRAWINGS.
- EACH CONTRACTOR SHALL THOROUGHLY EXAMINE AND VERIFY ALL EXISTING CONDITIONS BEFORE PERFORMING ANY WORK AND IMMEDIATELY NOTIFY THE ARCHITECT, IN WRITING, OF ANY DISCREPANCIES WITH THE DRAWINGS.
- ANY WORK PERFORMED AS PART OF THIS CONTRACT REQUIRING OR ALTERATION WILL BE THE RESPONSIBILITY OF THE RESPECTIVE CONTRACTOR.
- ALL ITEMS NOTED TO BE REMOVED TO BE DISPOSED OF OFF-SITE BY RESPECTIVE CONTRACTORS, UNLESS NOTED OTHERWISE. WHERE INDICATED ON THE DRAWINGS AND/OR IN THE NOTES AS SALVAGE AND DELIVER TO OWNER. THE CONTRACTOR WILL CAREFULLY REMOVE INDICATED ITEMS AND STORE THEM WHERE DIRECTED BY THE OWNER.
- THE OWNER HAS THE OPTION TO RETAIN POSSESSION OF ANY REMOVED MATERIALS OR EQUIPMENT. ALL SUCH ITEMS SHALL BE CAREFULLY REMOVED AND STORED AT THE SITE BY THE CONTRACTOR WHERE DIRECTED BY THE OWNER. ANY MATERIALS OR EQUIPMENT NOT RETAINED BY THE OWNER WILL BECOME THE PROPERTY OF THE CONTRACTOR AND PROMPTLY REMOVED FROM SITE.
- EACH CONTRACTOR IS RESPONSIBLE FOR ALL DEMOLITION ASSOCIATED WITH HIS CONTRACT AND SCOPE OF WORK. EACH CONTRACTOR IS RESPONSIBLE TO PATCH AND/OR REPAIR ANY AND ALL CONSTRUCTION AFFECTED BY HIS DEMOLITION. THE EXTENT OF PATCH AND REPAIR SHALL BE AS REQUIRED TO RECEIVE THE SCHEDULED NEW WORK. ALL CONTRACTORS ARE RESPONSIBLE FOR COORDINATION OF WORK WITH OTHER CONTRACTORS BEFORE PERFORMING ANY WORK.
- ALL PATCH AND REPAIR WORK SHALL BE PERFORMED USING MATERIALS THAT MATCH THE EXISTING ADJACENT CONSTRUCTION. WHERE PATCHING EXISTING MASONRY WALLS OR INFILLING BETWEEN WALLS WITH MASONRY TO MATCH EXISTING, "TOOTH-IN" NEW MASONRY TO EXISTING.
- EACH CONTRACTOR IS RESPONSIBLE TO PROTECT ALL EXISTING CONSTRUCTION SCHEDULED TO REMAIN. EACH CONTRACTOR IS RESPONSIBLE TO PATCH AND/OR REPAIR ANY AND ALL CONSTRUCTION AFFECTED BY THEIR DEMOLITION. EACH CONTRACTOR SHALL PATCH (SUBSTRATE AND FINISHED SURFACES) ANY EXISTING FINISHES AFFECTED BY THEIR RESPECTIVE WORK.
- EXISTING CONDITIONS INDICATED ARE OBTAINED FROM AVAILABLE SOURCES (EXISTING DRAWINGS, FIELD SURVEYS, ETC.) AND ARE NOT GUARANTEED TO BE TRUE AND EXACT. CONTRACTOR(S) SHALL FIELD VERIFY EXISTING CONDITIONS AND NOTIFY THE ENGINEER OF ANY DISCREPANCIES PRIOR TO PROCEEDING WITH THE AFFECTED PORTION OF THE WORK.
- REMOVAL IN ITS ENTIRETY INCLUDES HANGERS, ELECTRICAL, CONTROLS, ETC., TO LEAVE A LIKE NEW OR MATCHING EXISTING CONDITION.

MECHANICAL NOTES

- ANY PHYSICAL INSTALLATION MODIFICATIONS DUE TO FIELD CONDITIONS SHALL BE RESOLVED BY THE HVAC CONTRACTOR IN ACCORDANCE WITH THE RECOMMENDATIONS OF THE MECHANICAL ENGINEER.
- THIS CONTRACTOR SHALL PROVIDE ALL MISCELLANEOUS STEEL AND SUPPORTS TO SUSPEND DUCTWORK AND EQUIPMENT.
- ALL EQUIPMENT SHALL BE INSTALLED WITH VIBRATION ISOLATORS.
- THIS CONTRACTOR SHALL PROVIDE ALL LABOR, MATERIALS, AND EQUIPMENT TO ENSURE A COMPLETE SYSTEM.
- THIS CONTRACTOR SHALL COORDINATE HIS WORK WITH ALL OTHER TRADES.
- THE HVAC CONTRACTOR SHALL SEAL ALL HIS RESPECTIVE WALL AND ROOF PENETRATIONS.
- ALL DUCTS THAT PENETRATE CHASES, WALLS, OR FLOORS WHICH ARE FIRE-RATED SHALL BE INSTALLED WITH FIRE DAMPERS IN ACCORDANCE WITH NFPA 90A. THIS APPLIES EVEN IF THEY ARE NOT SPECIFICALLY SHOWN ON THE DRAWINGS.
- ALL DUCTWORK, EQUIPMENT, PIPING, ETC. SHALL BE INSTALLED ABOVE THE FINISHED CEILING UNLESS SPECIFICALLY NOTED OTHERWISE.

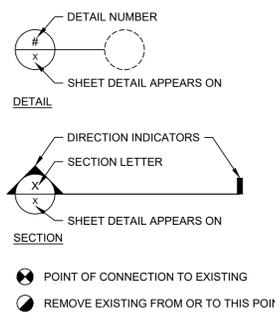
DUCTWORK NOTES

- ALL DUCTWORK SIZES NOTED ARE FREE AREA SIZES.
- TURNING VANES SHALL BE PROVIDED IN ALL RECTANGULAR DUCT ELBOWS.
- SPLITTERS AND BALANCING DAMPERS SHALL BE PROVIDED AT ALL DUCT BRANCHES.
- THE HVAC CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING INSTALLATION OF AIR DEVICES WITHIN THE CEILING GRID WITH LIGHTING FIXTURES, SPRINKLER HEADS, ETC.
- LENGTH OF FLEXIBLE DUCT BRANCHES SHALL NOT EXCEED 5'-0" MAXIMUM. ADDITIONAL LENGTH FOR INDIVIDUAL CONNECTIONS SHALL BE RIGID ROUND SHEET METAL DUCTWORK.
- FLEXIBLE DUCT SHALL NOT BE ACCEPTABLE FOR EXHAUST FAN INSTALLATIONS.
- DUCTWORK SIZES ARE DEFINITE AND LOCATIONS ARE APPROXIMATE. HVAC CONTRACTOR CAN MAKE MINOR DUCTWORK SIZE REVISIONS TO ACCOMMODATE AVAILABLE SPACE. SIZING SHALL BE BASED ON A MAXIMUM OF .08" PRESSURE LOSS PER 100' (STATIC PRESSURE), AND A MAXIMUM 1100 FPM AIR VELOCITY. DUCTWORK SYSTEMS SHALL BE SIZED BASED ON HVAC FAN STATIC PRESSURE AND FAN DUTY POINTS.

GENERAL NOTES:

- CONTRACTORS ARE URGED TO INSPECT THE SITE BEFORE SUBMITTING A BID PROPOSAL TO ENSURE KNOWLEDGE OF PROJECT REQUIREMENTS AND SITE CONDITIONS. IF NO CLARIFICATION IS REQUESTED, IT WILL BE CONSIDERED THAT THE CONTRACTORS ARE IN FULL UNDERSTANDING OF PROJECT REQUIREMENTS.
- PROVIDE LABOR, SUPERVISION, EQUIPMENT, MATERIALS, AND SERVICES REQUIRED FOR THE COMPLETE INSTALLATION OF THIS WORK IN ACCORDANCE WITH APPLICABLE FEDERAL, STATE, AND LOCAL CODES, AUTHORITIES HAVING JURISDICTION, AND STANDARDS INCLUDING BUT NOT LIMITED TO, ASHRAE, IBC, NEC, AND NFPA.
- NOTHING CONTAINED IN THE SPECIFICATIONS OR SHOWN ON THE DRAWINGS SHALL BE CONSTRUED TO BE IN CONFLICT WITH ANY STATE OR LOCAL CODES, ORDINANCES OR REGULATIONS.
- THE USE OF THE WORD "PROVIDE" SHALL MEAN TO FURNISH, INSTALL AND CONNECT, READY TO USE.
- THE USE OF THE WORD "FURNISH" SHALL MEAN TO PROCURE AND DELIVER TO THE SITE.
- THE USE OF THE WORD "INSTALL" SHALL MEAN TO PHYSICALLY PLACE INTO SERVICE AND CONNECT, READY TO USE.
- EQUIPMENT AND MATERIALS SHALL BE INSTALLED BY SKILLED TRADESMEN, FAMILIAR WITH THE COMPONENTS TO BE INSTALLED, AND IN ACCORDANCE WITH BEST PRACTICES OF THE INDUSTRY.
- BECAUSE OF THE SMALL SCALE OF THE DRAWINGS, IT IS NOT POSSIBLE TO INDICATE ALL OFFSETS, FITTINGS, AND ACCESSORIES THAT MAY BE REQUIRED. THIS CONTRACTOR SHALL CAREFULLY EXAMINE THE ARCHITECTURAL, STRUCTURAL, ELECTRICAL, PLUMBING, AND OTHER PROJECT DOCUMENTS AS MAY BE NECESSARY FOR PROPER OPERATION OR INSTALLATION AND SHALL PROVIDE OFFSETS, FITTINGS, AND ACCESSORIES TO MEET PROJECT CONDITIONS.
- DISCREPANCIES BETWEEN DRAWINGS OR BETWEEN DRAWINGS AND SPECIFICATIONS SHALL BE REPORTED TO PROFESSIONAL IN WRITING. OBTAIN WRITTEN INSTRUCTIONS FROM PROFESSIONAL AS TO THE MANNER IN WHICH TO PROCEED. NO DEPARTURES FROM THE PROJECT DOCUMENTS SHALL BE MADE WITHOUT PRIOR WRITTEN ACCEPTANCE BY THE PROFESSIONAL.
- DIMENSIONS, CLEARANCES, AND LOCATIONS OF EQUIPMENT AND MATERIALS SHALL BE FIELD VERIFIED PRIOR TO ORDERING, PROCURING AND FURNISHING SAME.
- NO EXTRA COMPENSATION OR CHARGES WILL BE ACCEPTED DUE TO DIFFERENCES BETWEEN THE ACTUAL MEASUREMENTS AND THOSE INDICATED ON THE PLAN. THOROUGHLY COORDINATE WORK WITH SITE CONDITIONS AND OTHER TRADES, DETERMINE EXACT ROUTE AND LOCATION OF EACH DUCT, PIPE, CONDUIT, ETC. BEFORE FABRICATION AND INSTALLATION.
- INSTALL WORK SUBSTANTIALLY AS INDICATED. VERIFY LOCATIONS AND ELEVATIONS ON JOB SITE; DO NOT DIRECTLY SCALE DRAWINGS. MAKE NECESSARY CHANGES IN ELEVATION, FITTINGS, OR OFFSETS TO ACCOMMODATE OBSTACLES OR INTERFERENCES.
- CONTRACTOR SHALL ASSUME FULL RESPONSIBILITY FOR DAMAGE TO THE BUILDING, PIPING OR EQUIPMENT THAT IS THE RESULT OF WORK FOR INSTALLATION OF THIS CONTRACT.
- THE INSTALLING CONTRACTOR IS RESPONSIBLE FOR PATCH AND REPAIR OF ALL SURFACES TO MATCH EXISTING MATERIALS AND ADJACENT FINISHES ASSOCIATED WITH INSTALLATION/REMOVAL OF THIS WORK UNLESS SPECIFICALLY NOTED OTHERWISE.
- WORK SHALL BE COMPLETED TO MAINTAIN ALL NECESSARY AND REQUIRED CLEARANCES, ACCESSSES, AND OPENINGS, SUCH THAT FULL FUNCTIONALITY, PROPER OPERATION, AND REPAIR AND MAINTENANCE ARE ENSURED.
- WHERE DEVICE HEIGHT OF 48" OCCURS AT POINT OF CHANGE OF FINISH, THE DEVICE SHALL BE LOWERED TO OCCUR IN ONE FINISH.
- WHERE DEVICE OCCURS IN BRICK, TILE, OR BLOCK WALLS, THEY SHALL BE MOUNTED AT A VERTICAL MASONRY JOINT & IN EITHER THE TOP OR BOTTOM HORIZONTAL JOINT, CLOSEST TO THE MOUNTING HEIGHT.
- UNLESS OTHERWISE NOTED, ALL MOUNTING HEIGHT DIMENSIONS LISTED ARE TO THE CENTER LINE OF THE WALL BOX OR DEVICE.
- NOT ALL ABBREVIATIONS & SYMBOLS MAY APPLY TO THIS PROJECT.
- ALL ELECTRICAL MATERIALS, DEVICES, APPLIANCES, AND EQUIPMENT SHALL BE LABELED AND LISTED BY A CERTIFIED TESTING LABORATORY OR AGENCY.
- DRAWINGS REPRESENT THE SCOPE OF WORK IN GENERAL ARRANGEMENT FORM AND ARE INTENDED TO SHOW GENERAL ROUTING AND REQUIRED SIZES/CAPACITIES OF SYSTEM COMPONENTS.
- TURNING VANES SHALL BE PROVIDED ON ALL RECTANGULAR DUCTWORK ELBOWS IN ACCORDANCE WITH SMACNA "HVAC DUCT CONSTRUCTION STANDARDS". VANES SHALL BE SINGLE WALL FOR DUCTS UP TO 48 INCHES WIDE AND DOUBLE WALL FOR LARGER DUCTWORK WIDTH.

DETAIL, SECTION, & CONNECTION MARKS



DESIGN PARAMETERS

OUTDOOR AMBIENT CONDITIONS:
 WINTER = 13°F DB
 SUMMER = 91°F DB, 75°F WB

INDOOR CONDITIONS:
 HEATING = 70°F
 COOLING = 75°F

CODES:
 2018 INTERNATIONAL MECHANICAL CODE
 AND REFERENCED PUBLICATIONS/STANDARDS.

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 RENOVATION

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 25 WEST ROSEDALE AVE
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REVISIONS

| No. | Date | Revision |
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Sheet Title:
**HVAC
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WCU Project Number - Issue Phase:
WC2502 - ISSUED FOR BID

Issue Date:
MARCH 15, 2025

Drawing Scale:
AS NOTED

Drawing Path:

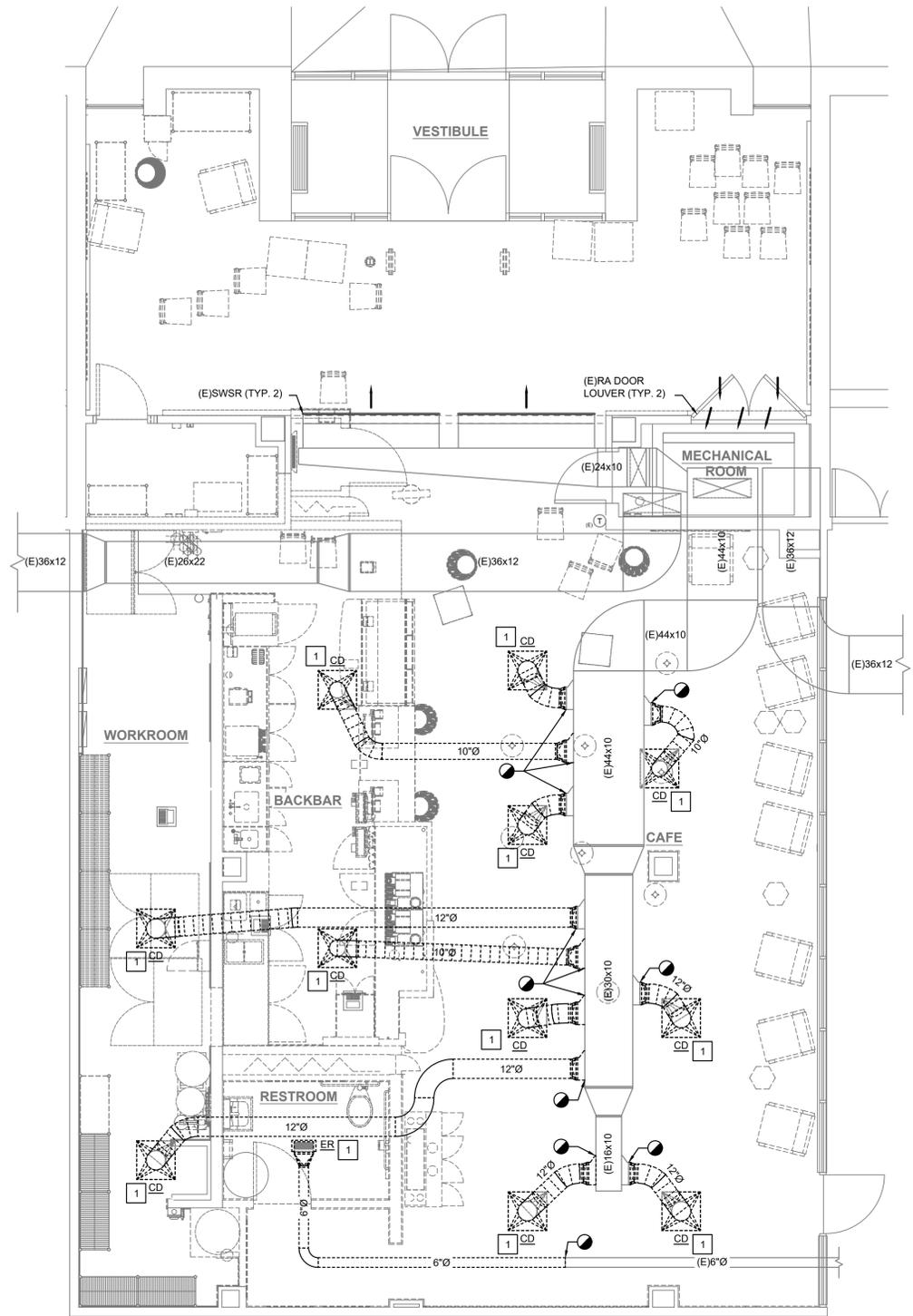
Drawn By: **DRG** Reviewed By: **DAS**

Project Number: **24-048** Drawing No.

File Name:
 Plot Scale:
1:1

Paper Size:
24" x 36"

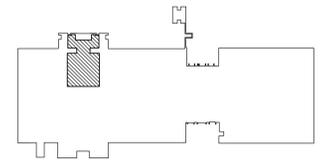
H001



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

DEMO NOTES:

- REMOVE AIR TERMINAL AND ASSOCIATED DUCTWORK BACK TO TAKEOFF OR DUCT MAIN AS INDICATED. PATCH AND SEAL DUCT MAIN AIRTIGHT WHERE REQUIRED.



KEY PLAN - FIRST FLOOR

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**PARTIAL
DEMOLITION FLOOR
PLAN - HVAC**

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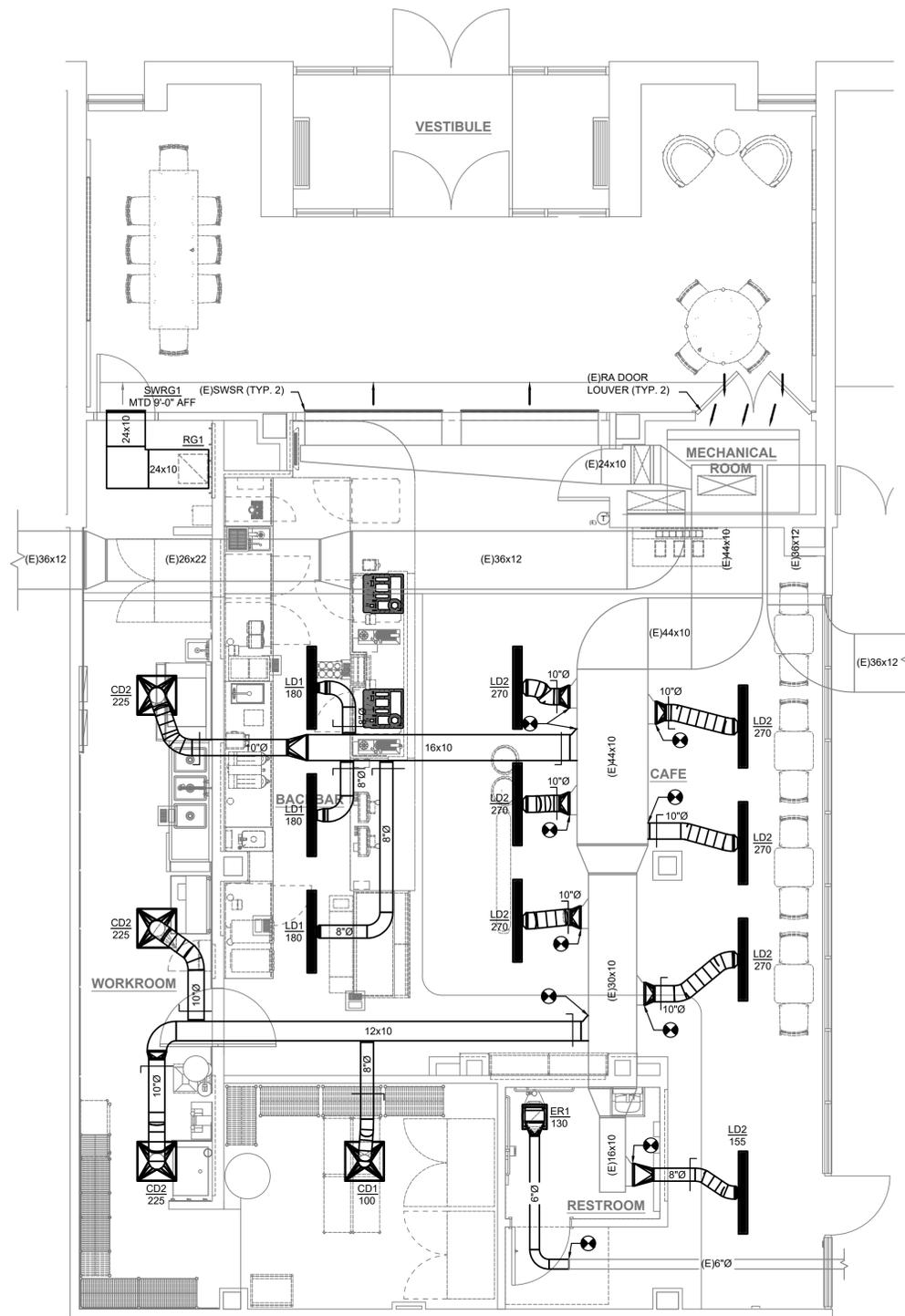
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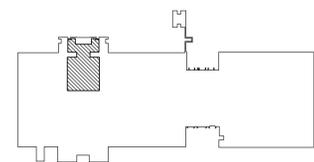
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Plot Scale: 1:1
Paper Size: 24" x 36"

HD101



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



KEY PLAN - FIRST FLOOR

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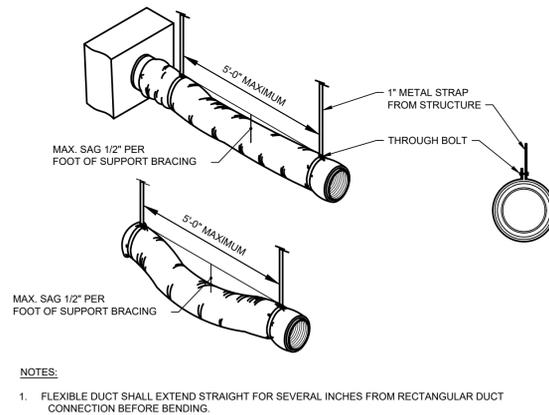
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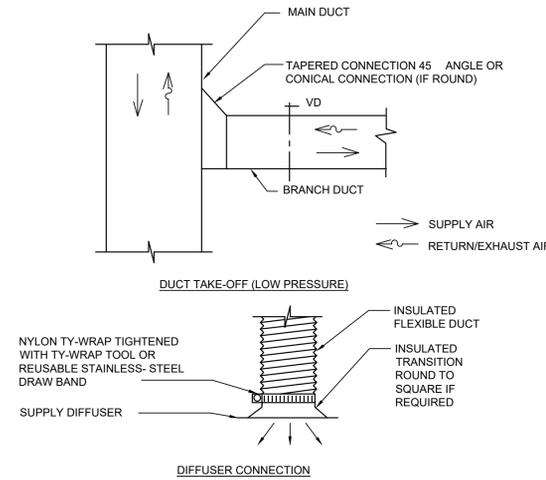
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| AIR TERMINAL SCHEDULE | | | | | | | | | | |
|-----------------------|------------------------|-------------------|--------------------|-------------------|-----------|----------|--------|--------|-------------|-------------------|
| TAG | AIR TERMINAL TYPE | AIRFLOW RANGE CFM | DEFLECTION PATTERN | FACE SIZE NOMINAL | NECK SIZE | MATERIAL | FINISH | MAX NC | FRAME STYLE | REMARKS |
| CD1 | CEILING DIFFUSER | 100-225 | 4-WAY | 24 x 24 | 8 | STEEL | WHITE | 20 | LAY-IN | |
| CD2 | CEILING DIFFUSER | 226-350 | 4-WAY | 24 x 24 | 10 | STEEL | WHITE | 20 | LAY-IN | |
| LD1 | LINEAR SUPPLY DIFFUSER | 100-200 | 2 SLOT | 48" LONG | N/A | STEEL | WHITE | 26 | SURFACE | 3/4" SLOT |
| LD2 | LINEAR SUPPLY DIFFUSER | 100-200 | 2 SLOT | 48" LONG | N/A | STEEL | WHITE | 26 | LAY-IN | 3/4" SLOT |
| LD3 | LINEAR SUPPLY DIFFUSER | 201-300 | 4 SLOT | 48" LONG | N/A | STEEL | WHITE | 25 | LAY-IN | 3/4" SLOT |
| ER1 | EXHAUST REGISTER | 51-150 | N/A | 8 X 8 | N/A | ALUMINUM | WHITE | 24 | SURFACE | |
| RG1 | RETURN GRILLE | 401-1000 | N/A | 24 x 24 | N/A | ALUMINUM | WHITE | 20 | LAY-IN | |
| SWRG1 | SIDEWALL RET REGISTER | 601-800 | N/A | 24 x 12 | N/A | ALUMINUM | WHITE | 20 | SURFACE | SINGLE DEFLECTION |

NOTES:

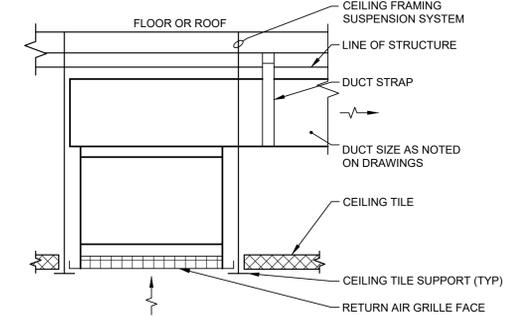


1 FLEXIBLE DUCT MOUNTING DETAIL
SCALE: NONE



- NOTES:
1. OFFSETS WITH FLEX DUCT SHALL NOT EXCEED 30 DEG AND SHALL BE GRADUAL. OFFSETS IN EXCESS OF 30 DEG SHALL BE HARD-DUCTED (GRADUAL 90 DEG OFFSET PERMITTED WHERE SPACE IS AVAILABLE AND WHEN VELOCITY IS UNDER 500 FPM.)
 2. FLEX DUCT SHALL NOT HAVE MORE THAN 1/2" SAG PER FOOT.
 3. LENGTH OF FLEX DUCT SHALL NOT EXCEED 5'-0".
 4. PROVIDE DUCT MOUNTED VOLUME DAMPER TO DIFFUSER AS CLOSE TO MAIN DUCT AS POSSIBLE.

2 TAKE-OFFS AND DIFFUSER CONNECTIONS
SCALE: NONE



- DETAIL NOTES:
1. CEILING SUPPORT SYSTEM MUST SUPPORT THE GRILLE WEIGHT. COORDINATE REQUIREMENTS WITH GENERAL CONTRACTOR.
2. INSIDE FACE OF DUCT TO BE PAINTED BLACK.

3 TRANSFER DUCT CONNECTION DETAIL
SCALE: NONE

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PROJECT

**FRANCIS HARVEY GREEN
LIBRARY - STARBUCKS
RENOVATION**

WEST CHESTER UNIVERSITY
OF PENNSYLVANIA
25 WEST ROSEDALE AVE
WEST CHESTER, PA 19383

REVISIONS

| No. | Date | Revision |
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Sheet Title:
**HVAC
SCHEDULES
& DETAILS**

WCU Project Number - Issue Phase:
WC2502 - ISSUED FOR BID

Issue Date:
MARCH 15, 2025

Drawing Scale:
AS NOTED

Drawing Path:

Drawn By: DRG
Reviewed By: DAS

Project Number: 24-048
Drawing No.

File Name:

Plot Scale: 1:1

Paper Size: 24" x 36"

H501

**PLUMBING SYMBOLS
- VALVES AND SPECIALTIES**

| | |
|--|-----------------------------|
| | BALL VALVE |
| | GATE VALVE |
| | PLUG VALVE |
| | SHUT-OFF VALVE IN RISER |
| | BALANCING VALVE |
| | MIXING VALVE |
| | CHECK VALVE |
| | ISOLATION VALVE |
| | SOLENOID VALVE |
| | STRAINER |
| | GLOBE VALVE |
| | PRESSURE REDUCING VALVE |
| | RELIEF VALVE X INDICATES |
| | BRANCH CONNECTION - BOTTOM |
| | BRANCH CONNECTION - TOP |
| | ELBOW TURNED DOWN |
| | ELBOW TURNED UP |
| | CAP |
| | REDUCER / INCREASER |
| | CLEANOUT (FLOOR/WALL) |
| | WALL HYDRANT |
| | HOSE BIBB |
| | FLOOR DRAIN |
| | FLOOR SINK |
| | ROOF DRAIN |
| | UNION |
| | FLEXIBLE CONNECTOR |
| | DIRECTION OF FLOW |
| | DIRECTION OF DOWNWARD PITCH |
| | PRESSURE/TEMPERATURE TAP |
| | PRESSURE GAUGE |
| | THERMOMETER |
| | CIRCULATING PUMP |
| | METER |
| | WATER HAMMER ARRESTOR |
| | ACCESS DOOR |
| | DECK PLATE/YARD CLEAN-OUT |
| | POINT OF CONNECTION |
| | POINT OF DISCONNECTION |
| | EXTENT OF DEMOLITION |

P - PRESSURE
T - TEMPERATURE
PT - COMBINATION
(PRESS./TEMP.)

PLUMBING ABBREVIATIONS

| | | |
|---------------------------------------|-------|-----------------------------------|
| ABOVE | ABOV | HOT WATER |
| ABOVE FINISHED FLOOR | ABF | HOT WATER RETURN |
| ACCESS DOOR | AD | ICE MAKER |
| ACID RESISTANT WASTE | ARW | INCHES) |
| ACID VENT | AV | INCHES WATER COLUMN |
| ALARM | ALM | INDIRECT WASTE |
| AQUASTAT | AQST | INSIDE DIAMETER |
| ARCHITECT(URAL) | ARCH | INSULATION |
| ARCHITECT/ENGINEER | A/E | INVERT |
| AREA DRAIN | ADRN | IRON PIPE SIZE |
| AUTOMATIC | AUTO | KILOWATT |
| AUTOMATIC AIR VENT | AAV | KILOWATT HOUR |
| BACK WATER VALVE | BWV | LAVATORY |
| BACKFLOW PREVENTER | BFP | LEAVING WATER TEMPERATURE |
| BALANCING VALVE | BAL V | LIQUEFIED PERTOLEUM GAS |
| BALL VALVE | BV | LOCKED ROTOR AMPS |
| BATHTUB | BT | MANHOLE |
| BELOW | BLW | MANUFACTURER |
| BELOW FINISHED FLOOR | BFF | MATCHLINE |
| BRAKE HORSEPOWER | BHP | MECHANICAL |
| BRITISH THERMAL UNIT | BTU | METER |
| BRITISH THERMAL UNITS (1000) PER HOUR | MEH | MIXING VALVE |
| BRITISH THERMAL UNITS PER HOUR | BTUH | MINIMUM CIRCUIT AMPACITY |
| BUILDING | BLDG | MOP SINK |
| BUTTERFLY VALVE | BFV | MOTOR CONTROL CENTER |
| BY OWNER | BO | NATURAL GAS |
| CATCH BASIN | CB | NITROGEN |
| CHECK VALVE | CKVA | NON-FREEZE HOSE BIBB |
| CIRCULATING PUMP | CP | NON-POTABLE WATER |
| CLEAN OUT | CO | NORMALLY CLOSED |
| COLD WATER | CW | NORMALLY OPEN |
| COMPRESSED AIR | CA | NOT TO SCALE |
| COMPRESSOR | COMP | OUTSIDE DIAMETER |
| CONDENSATE DRAIN | CD | OVERFLOW ROOF DRAIN |
| CONNECTION | CONN | OXYGEN |
| CONTRACT LIMIT LINE | CLL | PHASE |
| CONTRACTOR | CONTR | PLUMBING |
| CONTROL VALVE | CV | PNEUMATIC |
| CYCLE | CY | POUNDS PER SQUARE INCH |
| DECK PLATE CLEAN-OUT | DPCO | POUNDS PER SQUARE INCH ABSOLUTE |
| DEIONIZED WATER | DIW | POUNDS PER SQUARE INCH GAGE |
| DETAIL | DTL | PRESSURE DROP |
| DISTILLED WATER | DI | PRESSURE REDUCING VALVE |
| DIAMETER | DIA | PRESSURE TEMPERATURE RELIEF VALVE |
| DISHWASHER | DWSH | PROJECT |
| DOWN | DN | PUMP |
| DRAIN | DR | PUMP DISCHARGE LINE |
| DRAWING | DWG | RAIN WATER LEADER |
| DRINKING FOUNTAIN | DF | REDUCED PRESSURE ZONE |
| DRY WELL | DRW | REQUIRED |
| ELECTRIC(AL) | ELEC | REVOLUTIONS PER MINUTE |
| ELECTRIC WATER COOLER | EWV | RISER |
| ELECTRIC WATER HEATER | EWVH | ROOF DRAIN |
| EMERGENCY SHOWER | EMSHR | RUNNING LOAD AMPS |
| EMERGENCY EYEWASH | EMEW | RANGE/OVEN |
| ENGINEER | ENGR | SANITARY |
| ENTERING WATER TEMPERATURE | EWT | SANITARY SEWER |
| EQUIPMENT | EQPM | SCHEDULE |
| EXISTING | (E) | SECTION |
| EXISTING SANITARY TO REMAIN | ESR | SERVICE SINK |
| EXISTING VENT TO REMAIN | EVR | SHOWER |
| EXPANSION TANK | ET | SINK |
| EXTERIOR | EXT | SLEEVE |
| FRYER | F | SPECIFICATIONS |
| FACTORY MUTUAL | FM | SQUARE FOOT |
| FEET (FOOT) | FT | SQUARE INCH |
| FIRE PROTECTION | FP | STAINLESS STEEL |
| FLOOR CLEANOUT | FCO | STAND PIPE |
| FLOOR DRAIN | FD | STORAGE TANK, STORM WATER |
| FLOOR SINK | FS | STORM DRAIN |
| FLOW SWITCH | FS | TEMPERATURE |
| FULL LOAD AMPS | FLA | THERMOSTATIC MIXING VALVE |
| GAGE (GAUGE) | GA | TRAP |
| GALLON | GAL | TRAP PRIMER |
| GALLONS PER DAY | GPD | TRENCH DRAIN |
| GALLONS PER HOUR | GPH | TYPICAL |
| GALLONS PER MINUTE | GPM | UNLESS OTHERWISE NOTED |
| GAS | G | UTILITY |
| GATE VALVE | GV | URINAL |
| GREASE TRAP or GRIDDLE TOP | GT | VACUUM |
| GREASE INTERCEPTOR | GI | VACUUM BREAKER |
| GENERAL CONTRACTOR | GC | VALVE |
| HAND SINK | HSNK | VARIABLE FREQUENCY DRIVE |
| HERTZ | HZ | VENT (SANITARY) |
| HIGH PRESSURE GAS | HPS | VENT TROUGH ROOF |
| HOSE BIBB | HB | VERIFY IN FIELD |
| HORSEPOWER | HP | VOLT |
| | | WALL HYDRANT |
| | | WALL CLEAN-OUT |
| | | WATER CLOSET |
| | | WATER HAMMER ARRESTOR |
| | | HOT WATER HEATER |
| | | WIRE MESH SCREEN |
| | | HW |
| | | HWR |
| | | IM |
| | | IN |
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| | | MCA |
| | | MSNK |
| | | MCC |
| | | NG |
| | | N |
| | | NFHB |
| | | NPW |
| | | NC |
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PLUMBING NOTES

- A. INSTALLATION SHALL CONFORM TO THE REQUIREMENTS OF THE PENNSYLVANIA UNIFORM CONSTRUCTION CODE, LATEST ACCEPTED VERSION OF INTERNATIONAL CODES AND THE LOCAL AUTHORITY HAVING JURISDICTION.
- B. PLUMBING CONTRACTOR SHALL PERFORM ALL TESTS, OBTAIN ALL PERMITS, INSPECTIONS AND CONNECTION FEES FOR PLUMBING INSTALLATION.
- C. PLUMBING CONTRACTOR SHALL PAY FOR ALL PERMITS, INSPECTIONS AND CONNECTION FEES FOR PLUMBING INSTALLATION.
- D. PLUMBING CONTRACTOR TO COORDINATE WITH ALL OTHER TRADES.
- E. ALL MATERIALS SHALL BE NEW, UNLESS OTHERWISE NOTED.
- F. PERFORM TESTING AS REQUIRED BY CODE AND LOCAL AUTHORITY HAVING JURISDICTION.
- G. PLUMBING CONTRACTOR SHALL VISIT THE SITE AND REVIEW EXISTING CONDITIONS AND MAKE ALLOWANCE FOR ANY EXISTING CONDITIONS PRIOR TO SUBMITTING BID.
- H. ALL BURIED SANITARY, GREASE AND INDIRECT WASTE PIPING 3" AND LARGER SHALL PITCH 1/8"/FT. MINIMUM.
- I. ALL BURIED SANITARY, GREASE AND INDIRECT WASTE PIPING 2-1/2" AND SMALLER SHALL PITCH 1/4"/FT. MINIMUM.
- J. ALL VENT PIPING SHALL PITCH TO DRAIN.
- K. PLUMBING CONTRACTOR SHALL BE RESPONSIBLE FOR MAKING FINAL CONNECTIONS AS REQUIRED FOR COMPLETE AND FUNCTIONAL PLUMBING SYSTEMS.
- L. ALL WATER PIPING SHUT-OFF VALVES SHALL BE LOCATED NO MORE THAN 24" ABOVE FINISHED CEILINGS. IN AREAS WHERE THERE ARE NO CEILINGS, INSTALL VALVES SO AS TO BE ACCESSIBLE WITH A LADDER, BUT WITHOUT THE NEED FOR A MAN LIFT TO REACH THEM.

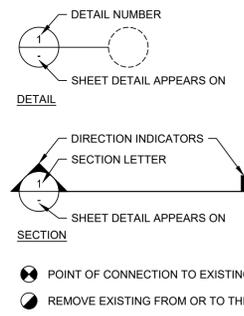
- A. CONTRACTORS ARE URGED TO INSPECT THE SITE BEFORE SUBMITTING A BID PROPOSAL TO ENSURE KNOWLEDGE OF PROJECT REQUIREMENTS AND SITE CONDITIONS. IF NO CLARIFICATION IS REQUESTED, IT WILL BE CONSIDERED THAT THE CONTRACTORS ARE IN FULL UNDERSTANDING OF PROJECT REQUIREMENTS.
- B. PROVIDE LABOR, SUPERVISION, EQUIPMENT, MATERIALS, AND SERVICES REQUIRED FOR THE COMPLETE INSTALLATION OF THIS WORK IN ACCORDANCE WITH THE MOST CURRENT APPLICABLE FEDERAL, STATE, AND LOCAL CODES, AUTHORITIES HAVING JURISDICTION, AND STANDARDS INCLUDING BUT NOT LIMITED TO, ASHRAE, IBC, NEC, AND NFPA.
- C. NOTHING CONTAINED IN THE SPECIFICATIONS OR SHOWN ON THE DRAWINGS SHALL BE CONSTRUED TO BE IN CONFLICT WITH ANY STATE OR LOCAL CODES, ORDINANCES OR REGULATIONS.
- D. NOTHING CONTAINED WITHIN THESE NOTES SHALL SUPERCEDE THE REQUIREMENTS OF THE SPECIFICATIONS.
- E. THE USE OF THE WORD "PROVIDE" SHALL MEAN TO FURNISH, INSTALL AND CONNECT, READY TO USE.
- F. THE USE OF THE WORD "FURNISH" SHALL MEAN TO PROCURE AND DELIVER TO THE SITE.
- G. THE USE OF THE WORD "INSTALL" SHALL MEAN TO PHYSICALLY PLACE INTO SERVICE AND CONNECT, READY TO USE.
- H. EQUIPMENT AND MATERIALS SHALL BE INSTALLED BY SKILLED TRADESMEN, FAMILIAR WITH THE COMPONENTS TO BE INSTALLED, AND IN ACCORDANCE WITH BEST PRACTICES OF THE INDUSTRY.
- I. BECAUSE OF THE SMALL SCALE OF THE DRAWINGS, IT IS NOT POSSIBLE TO INDICATE ALL OFFSETS, FITTINGS, AND ACCESSORIES THAT MAY BE REQUIRED. THIS CONTRACTOR SHALL CAREFULLY EXAMINE THE ARCHITECTURAL STRUCTURAL, HEATING, VENTILATING AND AIR-CONDITIONING; ELECTRICAL, PLUMBING; AND OTHER PROJECT DOCUMENTS AS MAY BE NECESSARY FOR PROPER OPERATION OR INSTALLATION AND SHALL PROVIDE OFFSETS, FITTINGS, AND ACCESSORIES TO MEET PROJECT CONDITIONS.
- J. DISCREPANCIES BETWEEN DRAWINGS OR BETWEEN DRAWINGS AND SPECIFICATIONS SHALL BE REPORTED TO THE DESIGN PROFESSIONAL IN WRITING. OBTAIN WRITTEN INSTRUCTIONS FROM PROFESSIONAL AS TO THE MANNER IN WHICH TO PROCEED. NO DEPARTURES FROM THE PROJECT DOCUMENTS SHALL BE MADE WITHOUT PRIOR WRITTEN ACCEPTANCE BY THE PROFESSIONAL.
- K. DIMENSIONS, CLEARANCES, AND LOCATIONS OF EQUIPMENT AND MATERIALS SHALL BE FIELD VERIFIED PRIOR TO ORDERING, PROCURING AND FURNISHING SAME.
- L. NO EXTRA COMPENSATION OR CHARGES WILL BE ACCEPTED DUE TO DIFFERENCES BETWEEN THE ACTUAL MEASUREMENTS AND THOSE INDICATED ON THE PLAN. THOROUGHLY COORDINATE WORK WITH SITE CONDITIONS AND OTHER TRADES. DETERMINE EXACT ROUTE AND LOCATION OF EACH DUCT, PIPE, CONDUIT, ETC. BEFORE FABRICATION AND INSTALLATION.
- M. INSTALL WORK SUBSTANTIALLY AS INDICATED. VERIFY LOCATIONS AND ELEVATIONS ON JOB SITE. DO NOT DIRECTLY SCALE DRAWINGS. MAKE NECESSARY CHANGES IN ELEVATION, FITTINGS, OR OFFSETS TO ACCOMMODATE OBSTACLES OR INTERFERENCES.
- N. CONTRACTOR SHALL ASSUME FULL RESPONSIBILITY FOR DAMAGE TO THE BUILDING, PIPING OR EQUIPMENT THAT IS THE RESULT OF WORK FOR INSTALLATION OF THIS CONTRACT.
- O. THE INSTALLING CONTRACTOR IS RESPONSIBLE FOR PATCH AND REPAIR OF ALL SURFACES TO MATCH EXISTING MATERIALS AND ADJACENT FINISHES ASSOCIATED WITH INSTALLATION/REMOVAL OF THIS WORK UNLESS SPECIFICALLY NOTED OTHERWISE.
- P. WORK SHALL BE COMPLETED TO MAINTAIN ALL NECESSARY AND REQUIRED CLEARANCES, ACCESSSES, AND OPENINGS, SUCH THAT FULL FUNCTIONALITY, PROPER OPERATION, AND REPAIR AND MAINTENANCE ARE ENSURED.
- Q. WHERE DEVICE HEIGHT OF 48" OCCURS AT POINT OF CHANGE OF FINISH, THE DEVICE SHALL BE RAISED OR LOWERED TO OCCUR IN ONE FINISH.
- R. WHERE DEVICE OCCURS IN BRICK, TILE, OR BLOCK WALLS, THEY SHALL BE MOUNTED AT A VERTICAL MASONRY JOINT & IN EITHER THE TOP OR BOTTOM HORIZONTAL JOINT, CLOSEST TO THE MOUNTING HEIGHT.
- S. UNLESS OTHERWISE NOTED, ALL MOUNTING HEIGHT DIMENSIONS LISTED ARE TO THE CENTER LINE OF THE WALL BOX OR DEVICE.
- T. NOT ALL ABBREVIATIONS & SYMBOLS MAY APPLY TO THIS PROJECT.
- U. ALL ELECTRICAL MATERIALS, DEVICES, APPLIANCES, AND EQUIPMENT SHALL BE LABELED AND LISTED BY A CERTIFIED TESTING LABORATORY OR AGENCY.
- V. DRAWINGS REPRESENT THE SCOPE OF WORK IN GENERAL ARRANGEMENT FORM AND ARE INTENDED TO SHOW GENERAL ROUTING AND REQUIRED SIZES/CAPACITIES OF SYSTEM COMPONENTS.

PLUMBING PIPING DESIGNATIONS

| | |
|--------------------|-----------------------------------|
| ----- | DOMESTIC COLD WATER |
| ----- | DOMESTIC HOT WATER |
| ----- TW ----- | DOMESTIC TEMPERED WATER |
| ----- | DOMESTIC HOT WATER RETURN |
| ----- TWR ----- | DOMESTIC TEMPERED WATER RETURN |
| ----- SAN ----- | SANITARY WASTE |
| ----- EX SAN ----- | EXISTING SANITARY WASTE |
| ----- SAN ----- | SANITARY WASTE - BELOW SLAB |
| ----- ESR ----- | EXISTING SANITARY WASTE TO REMAIN |
| ----- IW ----- | INDIRECT WASTE - BELOW SLAB |
| ----- V ----- | VENT PIPING - BELOW SLAB |
| ----- V ----- | VENT PIPING |
| ----- EX V ----- | EXISTING VENT PIPING |
| ----- EVR ----- | EXISTING VENT TO REMAIN |
| ----- CW ----- | DOMESTIC COLD WATER - BELOW SLAB |
| ----- HW ----- | DOMESTIC HOT WATER - BELOW SLAB |
| ----- CNL ----- | CONDENSATE PIPING |
| ----- NG ----- | NATURAL GAS |
| ----- EX NG ----- | NATURAL GAS - EXISTING |
| ----- ST ----- | STORM WATER |
| ----- ST ----- | STORM WATER - BELOW SLAB |
| ----- FM ----- | SANITARY FORCE MAIN |
| ----- D ----- | DRAIN |
| ----- VAC ----- | VACUUM |
| ----- CA ----- | COMPRESSED AIR |
| ----- EX CA ----- | COMPRESSED AIR - EXISTING |
| ----- DIW ----- | DE-IONIZED WATER |
| ----- TW ----- | TEMPERED WATER |

NOTE: NOT ALL LINE TYPES MAY BE USED.

DETAIL, SECTION, & CONNECTION MARKS



NOTE: NOT ALL SYMBOLS MAY BE USED.

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625 West Lincoln Highway
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PROJECT

**FRANCIS HARVEY GREEN
LIBRARY - STARBUCKS
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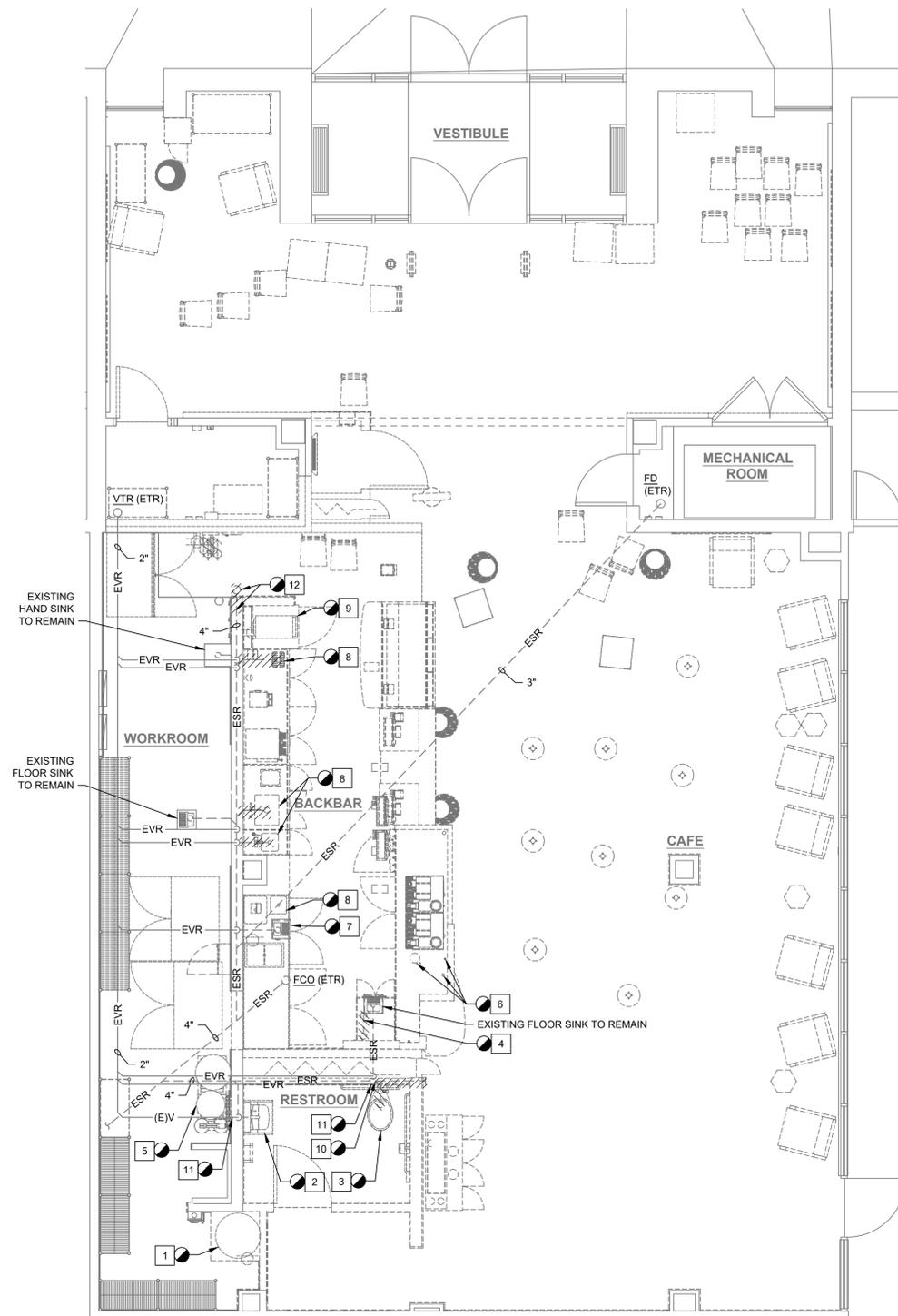
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WEST CHESTER, PA 19383

REVISIONS

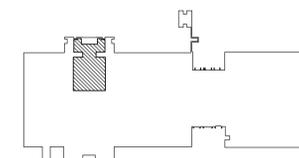
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Sheet Title:
**PLUMBING
LEGEND**

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|---|----------------------------|
| WCU Project Number - Issue Phase: WC2502 - ISSUED FOR BID | |
| Issue Date: MARCH 15, 2025 | |
| Drawing Scale: AS NOTED | |
| Drawing Path: | |
| Drawn By: TAM | Reviewed By: DAS |
| Project Number: 24-048 | Drawing No. |
| File Name: | P001 |
| Plot Scale: 1:1 | |
| Paper Size: 24" x 36" | |



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



KEY PLAN - FIRST FLOOR

GENERAL NOTES:

1. THE PLUMBING CONTRACTOR SHALL REVIEW THE EXISTING CONDITIONS BEFORE PERFORMING THE SCOPE OF WORK.

DEMO NOTES:

1. REMOVE EXISTING 50 GALLON WATER HEATER, EXISTING EXPANSION TANK AND EXISTING PIPING CONFIGURATION. STORE AND PROTECT BOTH FOR RELOCATION. DISCONNECT EXISTING COLD AND HOT WATER PIPING AT MAINS AND CAP.
2. REMOVE EXISTING WALL MOUNTED SINK & FAUCET AND SAVE FOR RELOCATION. DEMOLISH EXISTING SUPPLY AND WASTE PIPING BACK TO WALL AND CAP.
3. REMOVE EXISTING FLOOR MOUNTED WATER CLOSET & FLUSH VALVE AND SAVE FOR RELOCATION. DEMOLISH EXISTING SUPPLY AND SANITARY PIPING BACK TO MAINS AND CAP.
4. DEMOLISH EXISTING CONDENSATE DRAIN AND ACCESSORIES IN THEIR ENTIRETY.
5. DEMOLISH EXISTING WATER FILTRATION SYSTEM AND ACCESSORIES. DEMOLISH ASSOCIATED SUPPLY PIPING BACK TO WALL AND CAP.
6. DEMOLISH EXISTING HOT AND COLD WATER PIPING AND ACCESSORIES TO BELOW FLOOR AND CAP. DEMOLISH EXISTING OPEN SITE DRAIN(S) AND ACCESSORIES, THAT SERVE THE MASTRENAS, BACK TO EXISTING FLOOR SINK.
7. DEMOLISH EXISTING FLOOR SINK AND APPURTENANCES. DEMOLISH EXISTING SANITARY PIPING TO UNDER FLOOR. FILL WITH 1 FOOT OF FLOWABLE FILLER AND CAP.
8. DEMOLISH EXISTING COUNTERTOP SINK, FAUCET, HOT & COLD WATER SUPPLIES, DRAIN(S) AND APPURTENANCES BACK TO WALL AND CAP.
9. DEMOLISH EXISTING DRAIN AND APPURTENANCES SERVING ICE BIN.
10. DEMOLISH EXISTING SANITARY PIPING UNDER SLAB TO THIS POINT. PREPARE PIPE FOR RECONNECTION.
11. DEMOLISH EXISTING VENT ABOVE CEILING TO THIS POINT. PREPARE PIPE FOR RECONNECTION.
12. DEMOLISH EXISTING FLOOR CLEANOUT. PREPARE PIPING FOR RECONNECTION.

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PROJECT

FRANCIS HARVEY GREEN
LIBRARY - STARBUCKS
RENOVATION

WEST CHESTER UNIVERSITY
OF PENNSYLVANIA
25 WEST ROSEDALE AVE
WEST CHESTER, PA 19383

REVISIONS

| No. | Date | Revision |
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Sheet Title:
**PARTIAL
DEMOLITION FLOOR
PLAN - PLUMBING**

WCU Project Number - Issue Phase:
WC2502 - ISSUED FOR BID

Issue Date:
MARCH 15, 2025

Drawing Scale:
AS NOTED

Drawing Path:

Drawn By:
TAM

Reviewed By:
DAS

Project Number:
24-048

Drawing No.

File Name:

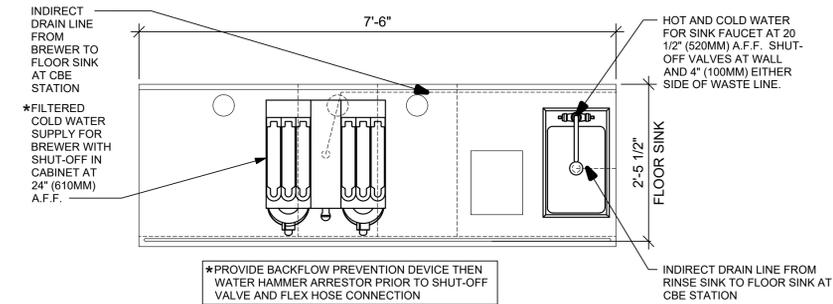
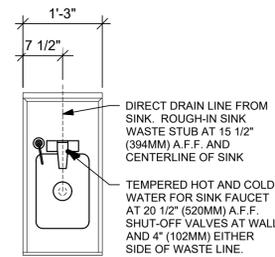
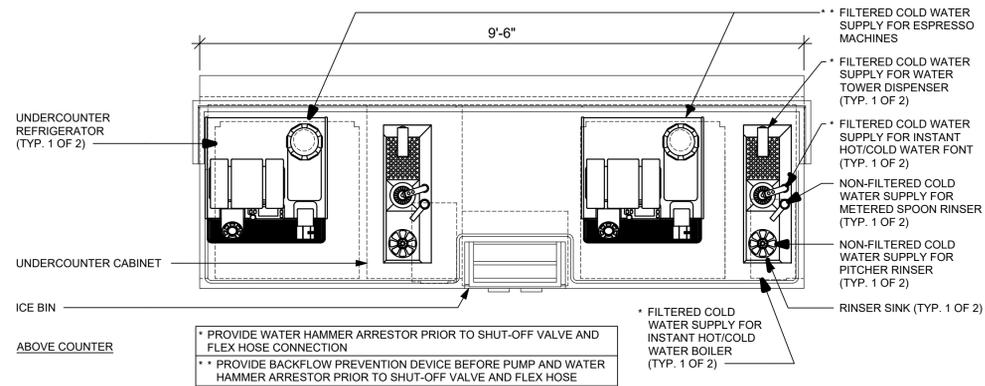
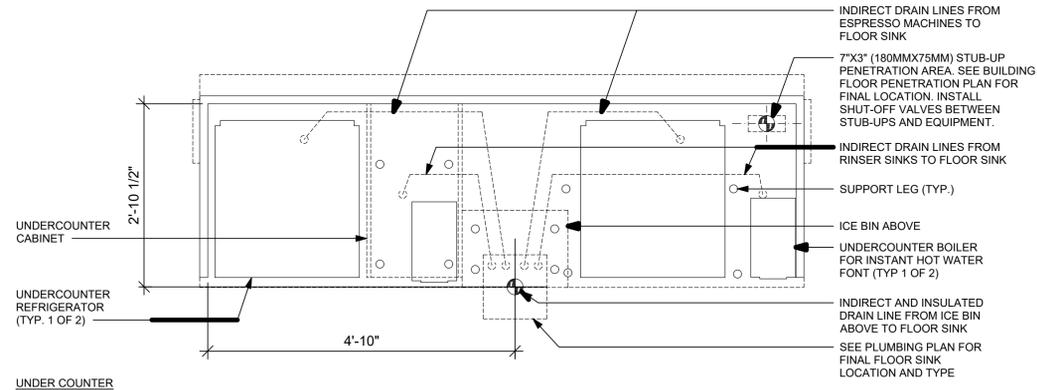
Plot Scale:
1:1

Paper Size:
24" x 36"

PD101

GENERAL NOTES:

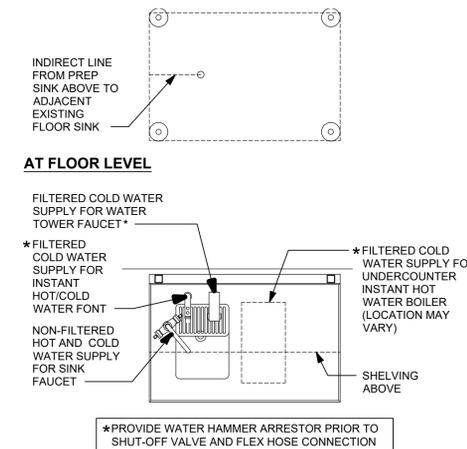
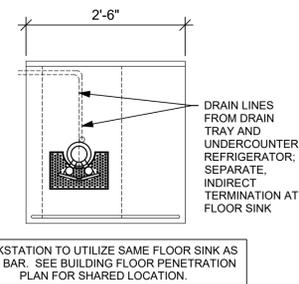
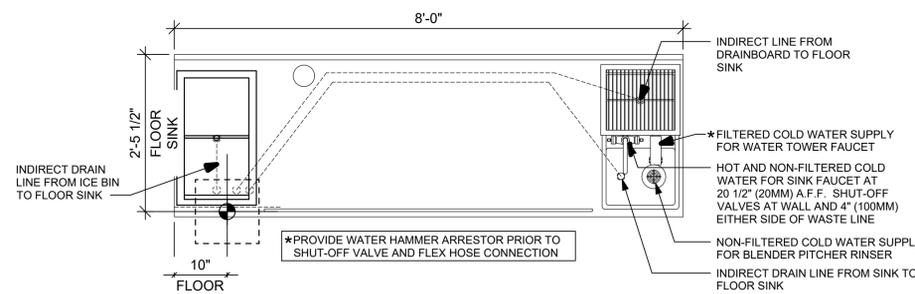
1. PROVIDE FILTERED COLD WATER TO ESPRESSO MACHINE(S), BREWER(S), HOT WATER TAP(S), WATER TOWER(S), AND ICE MACHINE.



1 ESP 07-03 PLUMBING
 Scale: 3/4" = 1'-0"

2 ADD 02-01 PLUMBING
 Scale: 3/4" = 1'-0"

3 BRW 09-01 PLUMBING
 Scale: 3/4" = 1'-0"



4 CBE 09-01 PLUMBING
 Scale: 3/4" = 1'-0"

5 NIT 11-01 PLUMBING
 Scale: 3/4" = 1'-0"

6 WATER FILLING STATION - PLUMBING
 Scale: 3/4" = 1'-0"

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**PLUMBING
 DETAILS**

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AS NOTED

Drawing Path:

Drawn By: **TAM** Reviewed By: **DAS**

Project Number: **24-048** Drawing No.

File Name:

Plot Scale: **1:1**

Paper Size: **24" x 36"**

P502

| PLUMBING FIXTURE SCHEDULE | | | | | | | | | | | | |
|---------------------------|--------------------------------------|---|----------|------|--------|------|------|-----|------|-----|-----|---|
| TAG | FIXTURE | MANUFACTURER & MODEL NUMBER | ROUGH-IN | | | | | | FLOW | | | REMARKS |
| | | | SAN | IDW | VENT | COLD | HOT | GAS | MBH | GPM | GPF | |
| 10294 | FLOOR SINK | FD2375-NH3 | - | 3 | 1-1/2" | - | - | - | - | - | - | CAST-IRON, PORCELAIN ENAMEL INTERIOR COATING; 12"x12"x6"; NO-HUB CONNECTION |
| 10294 | FLOOR SINK | FD2375-NH3 | - | 3 | 1-1/2" | - | - | - | - | - | - | CAST-IRON, PORCELAIN ENAMEL INTERIOR COATING; 12"x12"x6"; GRATE - HALF SQUARE; NO-HUB CONNECTION |
| 10152 | FAUCET | ZURN Z826S1-XL | - | - | - | 1/2" | 1/2" | - | - | 2.2 | - | POLISHED, CHROME-PLATED, DOUBLE LABORATORY FAUCET; 8-INCH BENT RISER SPOUT; VANDAL-RESISTANT AERATOR; 2-1/2" VANDAL-RESISTANT, COLOR-CODED, METAL LEVER HANDLES; STAINLESS STEEL FLEX CONNECTION HOSES |
| 10153 | DECK MOUNTED GLASS FILLER | CHG COMPONENT HARDWARE GROUP, LLC | - | - | - | 1/2" | - | - | - | 2.2 | - | POLISHED, CHROME-PLATED, CAST BRASS FIXTURE; STAINLESS STEEL, TYPE 304 RISER; STAINLESS STEEL, TWO-POSITION LEVER ARM; 12" DISTANCE FROM COUNTER TO SPOUT OPENING; THE VALVE HAS A 1/2" BSPT MALE THREAD. THE PLUMBER WILL NEED BRASS BUSH, THAT ADAPTS FROM 1/2" FEMALE TO THE SIZE CONNECTION OF THE BRAIDED HOSE (IE. 1/2" MALE) |
| 10215 | FAUCET | ZURN Z826F1-XL | - | - | - | 1/2" | 1/2" | - | - | 2.2 | - | POLISHED, CHROME-PLATED, DOUBLE LABORATORY FAUCET; 6-INCH CAST BRASS SWING SPOUT; VANDAL-RESISTANT AERATOR; 2-1/2" VANDAL-RESISTANT, COLOR-CODED, METAL LEVER HANDLES; STAINLESS STEEL FLEX CONNECTION HOSES |
| 10549 | WORK SINK | ELKAY SKU-344429 | 1-1/2" | - | 1-1/4" | - | - | - | - | - | - | DROP-IN, 20-1/2" X 12-1/2" X 12-1/2", TYPE 304, STAINLESS STEEL SINK |
| 10597 | FAUCET | ZURN Z7440-XL | - | - | - | 1/2" | 1/2" | - | - | 0.5 | - | POLISHED CHROME-PLATED 4" CENTERSET SINGLE CONTROL LAVATORY FAUCET WITH 5" INTEGRAL SPOUT, A CERAMIC DISC CARTRIDGE AND A TEMPERATURE LIMIT STOP. UNIT IS FINISHED WITH 0.5 GPM VANDAL-RESISTANT AERATOR (COMPLYING WITH ANSI A112.18.1M STANDARD FOR FLOW), AN ADA COMPLIANT LEVER HANDLE, 3/8" STAINLESS STEEL FLEX HOSE 18" IN LENGTH WITH 3/8" FEMALE COMPRESSION FITTING |
| 11003 | FAUCET | CHICAGO FAUCETS ECAST 333-665PSHABCP | - | - | - | 1/2" | 1/2" | - | - | 2.2 | - | POLISHED CHROME-PLATED METERING FAUCET WITH 3-3/8" INTEGRAL CAST SPOUT; 1-3/4" ROUND MVP™ METERING HANDLE WITH HOT AND COLD INDEX BUTTONS; 1/2" NPSM SUPPLY INLETS WITH COUPLING NUT FOR 3/8" OR 1/2" FLEXIBLE RISER |
| 17565 | WORK SINK | ELKAY CUSTOM STARBUCKS NO. 11232015 | 1-1/2" | - | 1-1/4" | - | - | - | - | - | - | CUSTOM MADE, DROP-IN, 27-1/8" X 14" X 14", TYPE 304, STAINLESS STEEL SINK AND ADDITIONAL DRAIN PAN WITH 1" DRAIN; 1-3/8" FAUCET HOLES |
| 17632 | DRYING RACK | ELKAY | - | - | - | - | - | - | - | - | - | 16 GA., POWDER COATED, METAL DRYING RACK ACCESSORY. SIZE 15" X 13-5/16" X 14-1/8" |
| 18743 | PREP STATION | EMI INDUSTRIES CUSTOM METAL FABRICATION | 1" | - | 1-1/4" | - | - | - | - | - | - | METAL, CUSTOM FABRICATED WORK STATION WITH 10" X 12" SINK |
| 22642 | HOT/AMBIENT WATER DISPENSER | MARCO: MIX UC3 HOT / AMBIENT BUNDLE | - | - | - | 3/8" | 3/8" | - | - | 0.5 | - | INCLUDES FRIIA FONT 2-BUTTON HOT/AMBIENT WATER DISPENSER, MIX BOILER UC3 - 120 V-1 PHASE-60 HZ-1.5 KW AND WALL BRACKET |
| 22768 | SINK & RINSER | ELKAY INTERIOR SYSTEMS | 1-1/2" | - | 1-1/4" | - | - | - | - | - | - | 16 GA. STEEL CONSTRUCTION, 25-7/8" X 9" X 4", FIXTURE; 3-1/2" BASKET STRAINER, RHINO COFFEE GEAR SPINJET RINSER, 1-1/8" AND 1-1/4" HOLES FOR FAUCET FIXTURES |
| 12501 | FILTER - RO SYSTEM 600 GPD | EVERPURE, MRS 600HE-II (EV9970-46) | - | 3/8" | - | 3/8" | - | - | - | 1.5 | - | POWER REQUIREMENTS: 115 V -1 PHASE - 60 HZ |
| 12507 | FILTER - RO SYSTEM STORAGE TANK RO40 | EVERPURE, DEV311572 | - | - | - | 1" | - | - | - | - | - | CAPACITY: 11.9 GALLON USABLE STORAGE |
| 12896 | FILTER - BRINE TANK | EVERPURE | - | - | - | - | - | - | - | - | - | INSTALL PER MANUFACTURER'S RECOMMENDATIONS |
| 12899 | FILTER - POLY GLASS VESSEL | EVERPURE | - | - | - | - | - | - | - | - | - | INSTALL PER MANUFACTURER'S RECOMMENDATIONS |
| 13076 | FILTER - PRE FILTRATION SYSTEM | EVERPURE, E20-DPI (EV9796-00) | - | - | - | 3/4" | - | - | - | 8 | - | INSTALL PER MANUFACTURER'S RECOMMENDATIONS |
| 13082 | FILTER - WATER SOFTENER TWIN | EVERPURE, 9100SXT / HYBRID | - | - | - | 3/4" | - | - | - | - | - | INSTALL PER MANUFACTURER'S RECOMMENDATIONS |
| 22603 | FILTER - RO SYSTEM STORAGE TANK RO20 | EVERPURE, 34680 | - | - | - | 1" | - | - | - | - | - | CAPACITY: 5.8 GALLON USABLE STORAGE |
| 23355 | FILTER - FILTRATION BOOSTER PUMP | GRUNDFOS, MODEL 1-75 I-X-C-B-D-E | - | - | - | 1" | - | - | - | - | - | 1.01 GPM, 115V - 1-PHASE - 60HZ, 3780 RPM, PLUG-IN POWER |
| 24272 | FILTER - RO SYSTEM INSTALL KIT | PENTAIR | - | - | - | - | - | - | - | - | - | INSTALL PER MANUFACTURER'S RECOMMENDATIONS |
| FD-1 | FLOOR DRAIN | ZURN Z415-B | 3" | - | 1-1/2" | - | - | - | - | - | - | INSTALL PER MANUFACTURER'S RECOMMENDATIONS. PROVIDE TYPE 'B' POLISHED STRAINER. PROVIDE TRAP INSERT BY ZURN, MODEL NO. Z1072 |

LICENSED STORES RESPONSIBILITY LEGEND

SB - STARBUCKS
FC - STARBUCKS FIXTURE CONTRACTOR
LC - LICENSEE
GC - LICENSEE'S GENERAL CONTRACTOR

| PLUMBING FIXTURE SCHEDULE - "P" | | | | | |
|---------------------------------|-------|--|----------|----------|---|
| DESIGN ID | COUNT | DESCRIPTION | FURN. BY | INST. BY | COMMENTS |
| DRAIN | | | | | |
| 10294 | 2 | DRAIN - FLOOR SINK SQUARE -12IN 305MM | GC | GC | |
| 10294 | 2 | DRAIN - GRATE HALF SQUARE -12IN 305MM | GC | GC | |
| FAUCET | | | | | |
| 10152 | 1 | FAUCET - DOUBLE LABORATORY WITH BENT RISER SPOUT | SB | GC | |
| 10153 | 4 | FAUCET - WATER TOWER - 12IN 305MM | SB | GC | |
| 10215 | 2 | FAUCET - DOUBLE LABORATORY WITH SWING SPOUT | SB | GC | |
| 10597 | 1 | FAUCET - SINGLE HANDLE | SB | GC | |
| 11003 | 2 | FAUCET - METERED | SB | GC | |
| 22642 | 3 | FAUCET - INSTANTHOT SYSTEM 2 BUTTON WITH BOILER AND BRACKET | SB | GC | KIT INCLUDES FONT, UNDERCOUNTER BOILER AND BOILER BRACKET FOR SIDE PANEL MOUNTING. BRACKET CAN BE FLOOR MOUNTED USING SET OF (4) STAINLESS STEEL LEGS, ORDERED SEPARATELY THROUGH VENDOR. |
| FILTER | | | | | |
| 12501 | 1 | FILTER - RO SYSTEM 600GPD | SB | SB | CONFIGURATION III. PROVIDED BY PENTAIR |
| 12507 | 1 | FILTER - RO SYSTEM STORAGE TANK RO40 | SB | SB | CONFIGURATION III. PROVIDED BY PENTAIR |
| 12896 | 1 | FILTER - BRINE TANK | SB | SB | CONFIGURATION III. PROVIDED BY PENTAIR |
| 12899 | 2 | FILTER - POLY GLASS VESSEL | SB | SB | CONFIGURATION III. PROVIDED BY PENTAIR |
| 13076 | 1 | FILTER - PREFILTRATION SYSTEM | SB | SB | CONFIGURATION III. PROVIDED BY PENTAIR |
| 13082 | 1 | FILTER - WATER SOFTENER TWIN | SB | SB | CONFIGURATION III. PROVIDED BY PENTAIR |
| 22603 | 1 | FILTER - RO SYSTEM STORAGE TANK RO20 | SB | SB | CONFIGURATION III. PROVIDED BY PENTAIR |
| 23355 | 1 | FILTER - FILTRATION BOOSTER PUMP | SB | GC | CONFIGURATION III |
| 24272 | 1 | FILTER - RO SYSTEM INSTALL KIT | SB | SB | CONFIGURATION III. PROVIDED BY PENTAIR |
| SINK | | | | | |
| 10549 | 1 | SINK - RINSE DROP IN SST - 12X20IN 305X510MM | SB | GC | |
| 17565 | 1 | SINK - RINSE WITH DRAINBOARD - 15X27IN 380X685MM | SB | GC | |
| 17632 | 1 | SINK - STACKED DRAINBOARD - 15IN 380MM | SB | GC | |
| 18743 | 1 | SINK - WATER FILLING STATION - 36X24IN 915X610MM | SB | GC | |
| 22768 | 2 | SINK - COUNTERTOP RINSER WITH WATER TOWER - 26X9IN 660X235MM | SB | GC | |

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CONSULTANT



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ARCHITECT



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Sheet Title:
PLUMBING SCHEDULES

WCU Project Number - Issue Phase:
WC2502 - ISSUED FOR BID

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AS NOTED

Drawing Path:

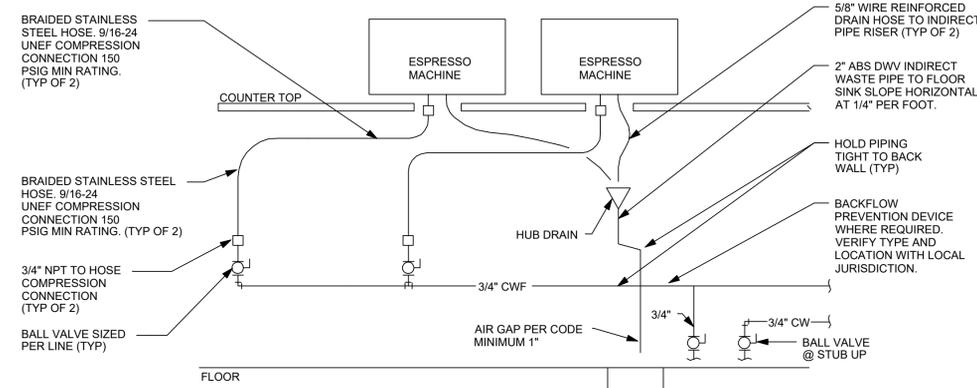
Drawn By: **TAM** Reviewed By: **DAS**

Project Number: **24-048** Drawing No.:

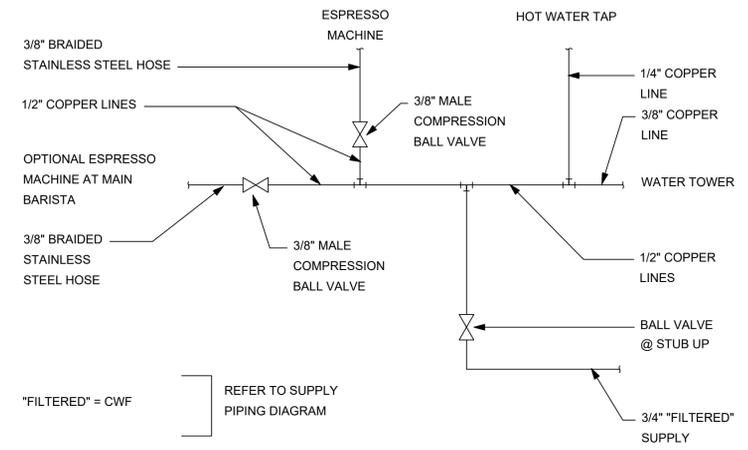
File Name:

Plot Scale: **1:1**
Paper Size: **24" x 36"**

P503

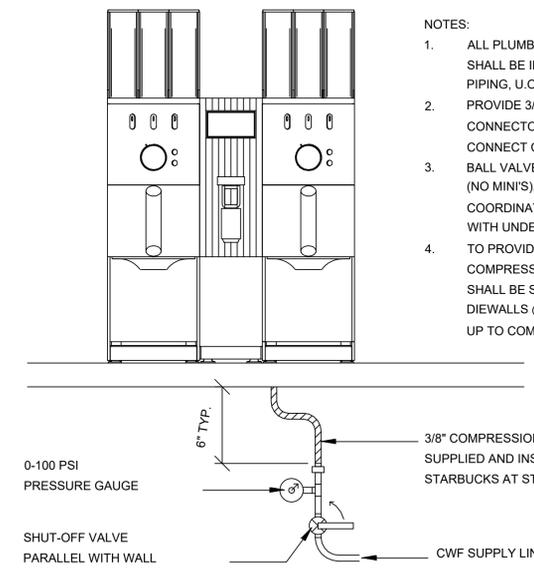


- DETAIL NOTES.**
1. THIS DETAIL IS SCHEMATIC ONLY. SEE THE PLAN DRAWINGS.
 2. ALL WATER HOSES SHALL BE THE MINIMUM LENGTH NEEDED AND SUPPORTED AS NEEDED TO AVOID STRESSING CONNECTIONS AND COILING EXCESSIVE HOSE. ROUTE TO AVOID KINKING AND ALLOW SPACE FOR UNDER COUNTER REFRIGERATOR AND ACCESS TO EQUIPMENT AND VALVES.
 3. ALL PIPING SHALL BE HELD TIGHT TO WALLS, SLOPED WHERE NEEDED AND ROUTED TO ALLOW ACCESS TO THE EQUIPMENT AND VALVES.
 4. ROUTE HORIZONTAL PIPING A MINIMUM OF 6\"/>

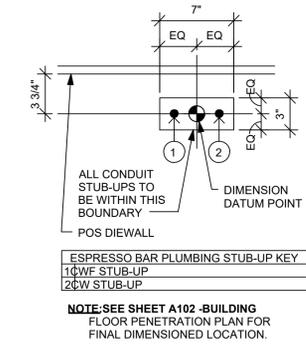
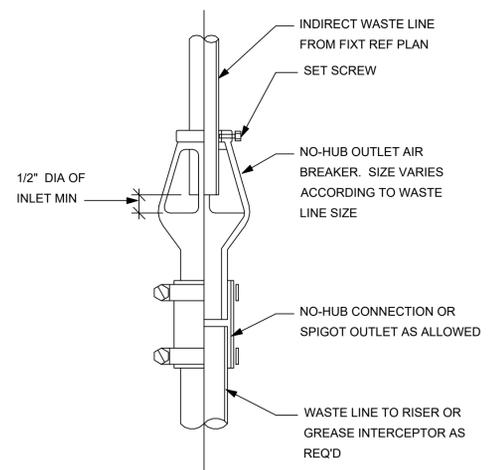
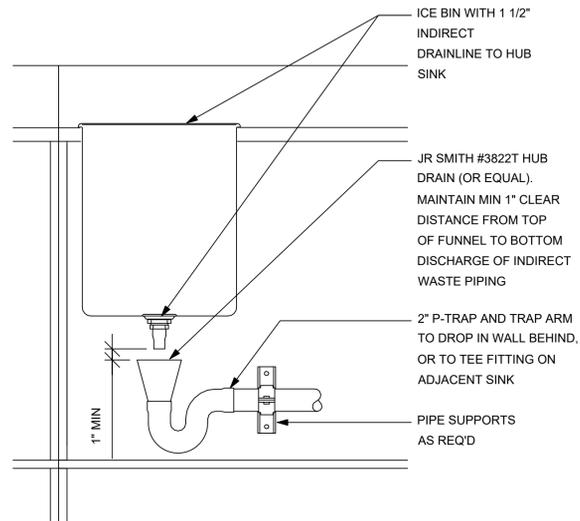


1 ESPRESSO MACHINE PIPING CONNECTION DETAIL
Scale: NTS

2 BARISTA FILTERED WATER MANIFOLD
Scale: NTS



- NOTES:**
1. ALL PLUMBING BY G.C. AT ESPRESSO BAR SHALL BE INSTALLED USING COPPER PIPING, U.O.N. (NO TUBING)
 2. PROVIDE 3/8\"/>

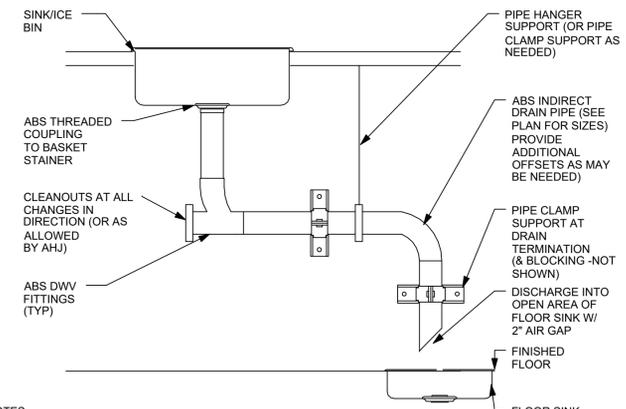


3 BREWER WATER SUPPLY INSTALLATION
Scale: NTS

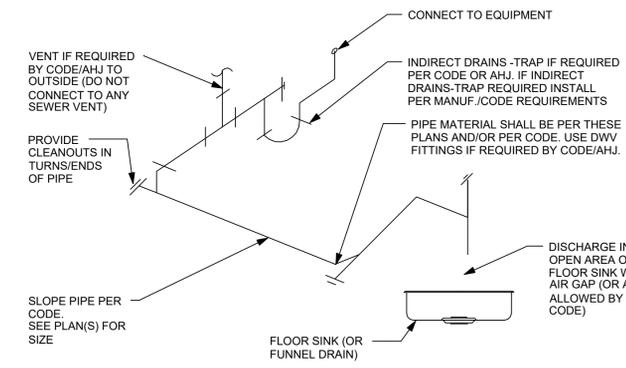
4 ICE BIN HUB DRAIN
Scale: NTS

5 AIR BREAKER
Scale: NTS

6 PLUMBING STUB-UPS AT ESPRESSO BAR
Scale: NTS



- NOTES:**
1. PROVIDE ALL WORK PER CODE AND AHJ REQUIREMENT EVEN IF NOT SPECIFICALLY SHOWN. ALL PIPES SHALL BE RIGIDLY SUPPORTED AND ALL SUPPORTS & PIPING SHALL BE MOUNTED OFF THE FLOOR FOR CLEANING PURPOSES.
 2. ALL INDIRECT DRAIN DISCHARGES SHALL OCCUR OVER CLEAR AREA OF FLOOR SINK AND NOT OVER GRATE.
 3. SLOPE ALL PIPES PER CODE AND PROVIDE TRAPPED INDIRECT DRAIN AND VENT IF REQUIRED BY CODE AND/OR AHJ. (NOT SHOWN)



- NOTES:**
1. PROVIDE ALL WORK PER CODE AND AHJ REQUIREMENT EVEN IF NOT SPECIFICALLY SHOWN. ALL PIPES SHALL BE RIGIDLY SUPPORTED AND ALL SUPPORTS & PIPING SHALL BE MOUNTED OFF THE FLOOR FOR CLEANING PURPOSES.
 2. ALL FLEXIBLE INDIRECT DRAIN LINES FOR APPLIANCES SHALL BE INSTALLED PER CODE/AHJ AND MANUF. REQUIREMENTS. SUPPORT LINES SO THERE ARE NO SAGS OR DIPS IN LINE. ROUTE CONDENSATE TO SPLASH BLOCK ON ROOF, PIPED TO DOWNSPOUT, TO ACTIVE TRAP OF INTERIOR FIXTURE, OR AS REQUIRED BY AHJ.

7 INDIRECT DRAIN DETAIL
Scale: NTS

8 TYPICAL EQUIPMENT INDIRECT DRAIN DETAIL
Scale: NTS

ARCHITECT AND/OR ENGINEER OF RECORD TO VERIFY NUMBER OF FLOOR SINKS AND STUB-UP PENETRATIONS REQUIRED BY CODE PER JURISDICTION.

ARCHITECT AND/OR ENGINEER OF RECORD TO PROVIDE ALL PLUMBING DIAGRAMS, CALCULATIONS, AND DETAILS AS REQUIRED.

PROVIDE FILTERED COLD WATER TO ESPRESSO MACHINE(S), BREWER(S), HOT WATER TAP(S), WATER TOWER(S), AND ICE MACHINE.

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P504

| EQUIPMENT | |
|---|---|
|  | DISCONNECT SWITCH - NON FUSED 5' AFF TO TOP OF BOX |

| LIGHTING FIXTURES | |
|---|--|
|  | LIGHTING FIXTURE - SEE FIXTURE SCHEDULE |
|  | LINEAR LIGHTING FIXTURE - SEE FIXTURE SCHEDULE |
|  | WALL MOUNTED LIGHTING FIXTURE - SEE FIXTURE SCHEDULE |
|  | CEILING MOUNTED LIGHTING FIXTURE - SEE FIXTURE SCHEDULE |
|  | WALL MOUNTED LIGHTING FIXTURE - SEE FIXTURE SCHEDULE |
|  | EXTERIOR LIGHTING FIXTURE - SEE FIXTURE SCHEDULE |
|  | WALL WASH LIGHTING FIXTURE - SEE FIXTURE SCHEDULE |
|  | TRACK LIGHTING FIXTURE - SEE FIXTURE SCHEDULE |
|  | LIGHTING FIXTURES ON A NORMAL EMERGENCY CIRCUIT - SEE FIXTURE SCHEDULE |
|  | DIRECTION ARROWS FOR EXIT SIGNS AS REQUIRED |
|  | WALL MOUNTED EXIT SIGN - SEE FIXTURE SCHEDULE |
|  | CEILING MOUNTED EXIT SIGN - SEE FIXTURE SCHEDULE |
|  | EMERGENCY BATTERY UNIT WITH HEADS- SEE FIXTURE SCHEDULE |
|  | REMOTE HEAD(S) FOR EMERGENCY BATTERY UNIT |
|  | LIGHTING FIXTURES ON A NORMAL EMERGENCY CIRCUIT - SEE FIXTURE SCHEDULE |
|  | LIGHTING FIXTURES ON EMERGENCY ONLY CIRCUIT - SEE FIXTURE SCHEDULE |

| SWITCHES | |
|--|------------------------------------|
|  | SINGLE POLE - WALL MOUNTED - FLUSH |
| NOTE: WALL MOUNTED SWITCHES SHALL BE 46" AFF TO CENTER OF DEVICE SWITCH DESIGNATIONS: 3 = THREE WAY 4 = FOUR WAY K = KEVED LV = LOW VOLTAGE D = DIMMER SWITCH MC - MOMENTARY CONTACT MT - MANUAL TIMER OS - OCCUPANCY SENSOR O2 - OCCUPANCY SENSOR, DUAL CIRCUIT TYPE OB - OCCUPANCY SENSOR, SINGLE CIRCUIT W/ AUX CONTACT FOR BMS VQ - VACANCY SENSOR P - PILOT LIGHT T - DIGITAL TIMER | |

| FIRE ALARM | |
|---|---|
|  | HEAT DETECTOR |
|  | SMOKE DETECTOR |
|  | DUCT DETECTOR - DEVICE BY ELECTRICAL CONTRACTOR |
|  | FIRE ALARM AUDIO INDICATING DEVICE - MOUNTING HEIGHT AS PER NFPA 72 |
|  | FIRE ALARM VISUAL INDICATING DEVICE - MOUNTING HEIGHT AS PER NFPA 72 WITH INTENSITY AS INDICATED |
|  | FIRE ALARM AUDIO/VISUAL INDICATING DEVICE -MOUNTING HEIGHT AS PER NFPA 72 WITH INTENSITY AS INDICATED |
|  | MANUAL PULL STATION - 42" AFF TO CENTER OF HANDLE |
|  | FIRE ALARM CONTROL PANEL - 6' AFF TO TOP OF BOX |
|  | FIRE ALARM ANNUNCIATOR PANEL - 6' AFF TO TOP OF BOX |
| DEVICE DESIGNATIONS: # = INDICATES FIRE ALARM INTENSITY CLG = CEILING MOUNTED E = ELEVATOR RECALL CONTROLS | |

| TECHNOLOGY | |
|--|--|
|  | VOICE OUTLET - WALL MOUNTED - FLUSH |
|  | DATA OUTLET - WALL MOUNTED - FLUSH |
|  | VOICE/DATA OUTLET - (2) DATA JACKS & (1) VOICE JACK - WALL MOUNTED - FLUSH |
|  | VOLUME CONTROL - MOUNTED 46" AFF TO CENTER, UNO |
|  | CEILING MOUNTED SPEAKER |
| NOTE: WALL MOUNTED DEVICES SHALL BE 18" AFF TO CENTER OF BOX, UNO | |
| DEVICE DESIGNATIONS: C - MOUNT 6" ABOVE COUNTER TOP TO BOTTOM OF BOX F - FLOOR MOUNTED H - MOUNTED HORIZONTALLY 6" ABOVE COUNTER TOP TO BOTTOM OF BOX W - WALL MOUNTED, 48" AFF TO CENTER # - NUMBER OF JACKS | |

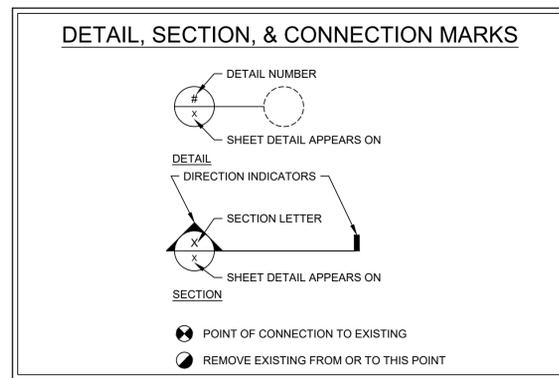
| RECEPTACLES | |
|---|--|
|  | DUPLEX RECEPTACLE - NEMA 5-20R - WALL MOUNTED - FLUSH |
|  | DOUBLE DUPLEX RECEPTACLE - NEMA 5-20R - WALL MOUNTED - FLUSH |
|  | SPECIAL PURPOSE - SUBSCRIPT INDICATES NEMA TYPE - WALL MOUNTED - FLUSH |
| NOTE: WALL MOUNTED DEVICES SHALL BE 18" AFF TO CENTER OF BOX, UNO. | |
| DEVICE DESIGNATIONS: C - MOUNT 6" ABOVE SINK OR COUNTERTOP TO BOTTOM OF BOX CD - CORD DROP CTL - CONTROLLED RECEPTACLE F - FLOOR MOUNTED GFI - GROUND FAULT CIRCUIT INTERRUPTER H - MOUNT HORIZONTALLY 6" ABOVE SINK OR COUNTERTOP TO BOTTOM OF BOX IG - ISOLATED GROUND R - REFRIGERATOR, MOUNT 42" AFF. SP - SURGE PROTECTED TR - TAMPER RESISTANT TV - TV MONITOR, WALL MOUNT, COORDINATE LOCATION W/ MOUNTING BRACKET USB - USB CHARGER WP - WEATHER RESISTANT GROUND FAULT CIRCUIT INTERRUPTER WITH WEATHERPROOF WHILE-IN-USE COVER # - CIRCUIT NUMBER | |

| DISTRIBUTION | |
|---|---|
|  | EXISTING PANELBOARD - FLUSH MOUNTED |
|  | EXISTING PANELBOARD - SURFACE MOUNTED |
|  | PANELBOARD - FLUSH MOUNTED |
|  | PANELBOARD - SURFACE MOUNTED |
|  | CONTROL PANEL - FLUSH MOUNTED |
|  | CONTROL PANEL - SURFACE MOUNTED |
|  | HOMERUN TO PANELBOARD |
|  | EQUIPMENT CONNECTION FLEX CONDUIT |
|  | EQUIPMENT ON SAME CIRCUIT BUT SEPARATELY CONTROLLED |
|  | PRIMARY ELECTRIC SERVICE |
|  | SECONDARY ELECTRIC CIRCUIT |

| GENERAL NOTES: | |
|----------------|---|
| 1. | CONTRACTORS ARE URGED TO INSPECT THE SITE BEFORE SUBMITTING A BID PROPOSAL TO ENSURE KNOWLEDGE OF PROJECT REQUIREMENTS AND SITE CONDITIONS. IF NO CLARIFICATION IS REQUESTED, IT WILL BE CONSIDERED THAT THE CONTRACTORS ARE IN FULL UNDERSTANDING OF PROJECT REQUIREMENTS. |
| 2. | PROVIDE LABOR, SUPERVISION, EQUIPMENT, MATERIALS, AND SERVICES REQUIRED FOR THE COMPLETE INSTALLATION OF THIS WORK IN ACCORDANCE WITH APPLICABLE FEDERAL, STATE, AND LOCAL CODES, AUTHORITIES HAVING JURISDICTION, AND STANDARDS INCLUDING BUT NOT LIMITED TO, ASHRAE, IBC, NEC, AND NFPA. |
| 3. | NOTHING CONTAINED IN THE SPECIFICATIONS OR SHOWN ON THE DRAWINGS SHALL BE CONSTRUED TO BE IN CONFLICT WITH ANY STATE OR LOCAL CODES, ORDINANCES OR REGULATIONS. |
| 4. | THE USE OF THE WORD "PROVIDE" SHALL MEAN TO FURNISH, INSTALL AND CONNECT, READY TO USE. |
| 5. | THE USE OF THE WORD "FURNISH" SHALL MEAN TO PROCURE AND DELIVER TO THE SITE. |
| 6. | THE USE OF THE WORD "INSTALL" SHALL MEAN TO PHYSICALLY PLACE INTO SERVICE AND CONNECT, READY TO USE. |
| 7. | EQUIPMENT AND MATERIALS SHALL BE INSTALLED BY SKILLED TRADESMEN, FAMILIAR WITH THE COMPONENTS TO BE INSTALLED, AND IN ACCORDANCE WITH BEST PRACTICES OF THE INDUSTRY. |
| 8. | BECAUSE OF THE SMALL SCALE OF THE DRAWINGS, IT IS NOT POSSIBLE TO INDICATE ALL OFFSETS, FITTINGS, AND ACCESSORIES THAT MAY BE REQUIRED. THIS CONTRACTOR SHALL CAREFULLY EXAMINE THE ARCHITECTURAL, STRUCTURAL, HEATING, VENTILATING AND AIR-CONDITIONING, ELECTRICAL, PLUMBING, AND OTHER PROJECT DOCUMENTS AS MAY BE NECESSARY FOR PROPER OPERATION OR INSTALLATION AND SHALL PROVIDE OFFSETS, FITTINGS, AND ACCESSORIES TO MEET PROJECT CONDITIONS. |
| 9. | DISCREPANCIES BETWEEN DRAWINGS OR BETWEEN DRAWINGS AND SPECIFICATIONS SHALL BE REPORTED TO PROFESSIONAL IN WRITING. OBTAIN WRITTEN INSTRUCTIONS FROM PROFESSIONAL AS TO THE MANNER IN WHICH TO PROCEED. NO DEPARTURES FROM THE PROJECT DOCUMENTS SHALL BE MADE WITHOUT PRIOR WRITTEN ACCEPTANCE BY THE PROFESSIONAL. |
| 10. | DIMENSIONS, CLEARANCES, AND LOCATIONS OF EQUIPMENT AND MATERIALS SHALL BE FIELD VERIFIED PRIOR TO ORDERING, PROCURING AND FURNISHING SAME. |
| 11. | NO EXTRA COMPENSATION OR CHARGES WILL BE ACCEPTED DUE TO DIFFERENCES BETWEEN THE ACTUAL MEASUREMENTS AND THOSE INDICATED ON THE PLAN. THOROUGHLY COORDINATE WORK WITH SITE CONDITIONS AND OTHER TRADES. DETERMINE EXACT ROUTE AND LOCATION OF EACH DUCT, PIPE, CONDUIT, ETC. BEFORE FABRICATION AND INSTALLATION. |
| 12. | INSTALL WORK SUBSTANTIALLY AS INDICATED. VERIFY LOCATIONS AND ELEVATIONS ON JOB SITE. DO NOT DIRECTLY SCALE DRAWINGS. MAKE NECESSARY CHANGES IN ELEVATION, FITTINGS, OR OFFSETS TO ACCOMMODATE OBSTACLES OR INTERFERENCES. |
| 13. | CONTRACTOR SHALL ASSUME FULL RESPONSIBILITY FOR DAMAGE TO THE BUILDING, PIPING OR EQUIPMENT THAT IS THE RESULT OF WORK FOR INSTALLATION OF THIS CONTRACT. |
| 14. | THE INSTALLING CONTRACTOR IS RESPONSIBLE FOR PATCH AND REPAIR OF ALL SURFACES TO MATCH EXISTING MATERIALS AND ADJACENT FINISHES ASSOCIATED WITH INSTALLATION/REMOVAL OF THIS WORK UNLESS SPECIFICALLY NOTED OTHERWISE. |
| 15. | WORK SHALL BE COMPLETED TO MAINTAIN ALL NECESSARY AND REQUIRED CLEARANCES, ACCESS, AND OPENINGS, SUCH THAT FULL FUNCTIONALITY, PROPER OPERATION, AND REPAIR AND MAINTENANCE ARE ENSURED. |
| 16. | WHERE DEVICE HEIGHT OCCURS AT POINT OF CHANGE OF FINISH, THE DEVICE HEIGHT SHALL BE ADJUSTED TO OCCUR IN ONE FINISH. ENSURE RESULTING HEIGHT DOES NOT EXCEED ADA REQUIREMENTS. |
| 17. | WHERE DEVICE OCCURS IN BRICK, TILE, OR BLOCK WALLS, THEY SHALL BE MOUNTED AT A VERTICAL MASONRY JOINT & IN EITHER THE TOP OR BOTTOM HORIZONTAL JOINT, CLOSEST TO THE MOUNTING HEIGHT. ENSURE RESULTING HEIGHT DOES NOT EXCEED ADA REQUIREMENTS. |
| 18. | UNLESS OTHERWISE NOTED, ALL MOUNTING HEIGHT DIMENSIONS LISTED ARE TO THE CENTER LINE OF THE WALL BOX OR DEVICE. |
| 19. | ALL ELECTRICAL MATERIALS, DEVICES, APPLIANCES, AND EQUIPMENT SHALL BE LABELED AND LISTED BY A CERTIFIED TESTING LABORATORY OR AGENCY. |
| 20. | DRAWINGS REPRESENT THE SCOPE OF WORK IN GENERAL ARRANGEMENT FORM AND ARE INTENDED TO SHOW GENERAL ROUTING AND REQUIRED SIZES/CAPACITIES OF SYSTEM COMPONENTS. |

| GENERAL DEMOLITION NOTES: | |
|---------------------------|---|
| 1. | THE DEMOLITION PLANS AND NOTES HAVE BEEN PREPARED TO ASSIST THE CONTRACTORS IN IDENTIFYING THE AREAS AND ITEMS OF DEMOLITION AND RENOVATION ASSOCIATED WITH THIS PROJECT. THE INFORMATION PROVIDED IS NOT MEANT TO BE ALL-INCLUSIVE IN TERMS OF LISTING EACH AND EVERY SPECIFIC TASK TO BE PERFORMED. EACH CONTRACTOR WILL THOROUGHLY EXAMINE ALL CONTRACT DOCUMENTS PRIOR TO PERFORMING ANY WORK. |
| 2. | DEMOLITION WORK INCLUDES, BUT IS NOT LIMITED TO, THE ITEMS INDICATED ON THE DEMOLITION DRAWINGS AND DESCRIBED IN THE DEMOLITION NOTES. THE EXTENT OF THE DEMOLITION WORK WILL INCLUDE ALL WORK REQUIRED TO COMPLETE THE PROJECT AND ENSURE WHETHER OR NOT THE WORK IS INDICATED ON THE DRAWINGS. |
| 3. | EACH CONTRACTOR SHALL THOROUGHLY EXAMINE AND VERIFY ALL EXISTING CONDITIONS BEFORE PERFORMING ANY WORK AND IMMEDIATELY NOTIFY THE ARCHITECT, IN WRITING, OF ANY DISCREPANCIES WITH THE DRAWINGS. |
| 4. | ANY WORK PERFORMED AS PART OF THIS CONTRACT REQUIRING OR ALTERATION WILL BE THE RESPONSIBILITY OF THE RESPECTIVE CONTRACTOR. |
| 5. | ALL ITEMS NOTED TO BE REMOVED TO BE DISPOSED OF OFF-SITE BY RESPECTIVE CONTRACTORS, UNLESS NOTED OTHERWISE. WHERE INDICATED ON THE DRAWINGS AND/OR IN THE NOTES AS SALVAGE AND DELIVER TO OWNER. THE CONTRACTOR WILL CAREFULLY REMOVE INDICATED ITEMS AND STORE THEM WHERE DIRECTED BY THE OWNER. |
| 6. | THE OWNER HAS THE OPTION TO RETAIN POSSESSION OF ANY REMOVED MATERIALS OR EQUIPMENT. ALL SUCH ITEMS SHALL BE CAREFULLY REMOVED AND STORED AT THE SITE BY THE CONTRACTOR WHERE DIRECTED BY THE OWNER. ANY MATERIALS OR EQUIPMENT NOT RETAINED BY THE OWNER WILL BECOME THE PROPERTY OF THE CONTRACTOR AND PROMPTLY REMOVED FROM SITE. |
| 7. | ANY CONTRACTOR REMOVING OR MODIFYING MATERIAL CONTAINING ASBESTOS OR SUSPECTED OF CONTAINING ASBESTOS WILL NOTIFY THE OWNER AT ONCE AND STOP REMOVAL. IDENTIFICATION AND/OR REMOVAL OF ASBESTOS CONTAINING MATERIAL WILL BE THE RESPONSIBILITY OF THE OWNER. |
| 8. | REFER TO ARCHITECTURAL, STRUCTURAL, MECHANICAL, ELECTRICAL, TECHNOLOGY AND PLUMBING DRAWINGS FOR DEMOLITION WORK BY RESPECTIVE CONTRACTORS. EACH CONTRACTOR IS RESPONSIBLE FOR ALL DEMOLITION ASSOCIATED WITH HIS CONTRACT AND SCOPE OF WORK. EACH CONTRACTOR IS RESPONSIBLE TO PATCH AND/OR REPAIR ANY AND ALL CONSTRUCTION AFFECTED BY HIS DEMOLITION. THE EXTENT OF PATCH AND REPAIR SHALL BE AS REQUIRED TO RECEIVE THE SCHEDULED NEW WORK. ALL CONTRACTORS ARE RESPONSIBLE FOR COORDINATION OF WORK WITH OTHER CONTRACTORS BEFORE PERFORMING ANY WORK. |
| 9. | ALL PATCH AND REPAIR WORK SHALL BE PERFORMED USING MATERIALS THAT MATCH THE EXISTING ADJACENT CONSTRUCTION. WHERE PATCHING EXISTING MASONRY WALLS OR INFILLING BETWEEN WALLS WITH MASONRY TO MATCH EXISTING, "TOOTH-IN" NEW MASONRY TO EXISTING. |
| 10. | EACH CONTRACTOR IS RESPONSIBLE TO PROTECT ALL EXISTING CONSTRUCTION SCHEDULED TO REMAIN. EACH CONTRACTOR IS RESPONSIBLE TO PATCH AND/OR REPAIR ANY AND ALL CONSTRUCTION AFFECTED BY THEIR DEMOLITION. EACH CONTRACTOR SHALL PATCH (SUBSTRATE AND FINISHED SURFACES) ANY EXISTING FINISHES AFFECTED BY THEIR RESPECTIVE WORK. |
| 11. | EXISTING CONDITIONS INDICATED ARE OBTAINED FROM AVAILABLE SOURCES (EXISTING DRAWINGS, FIELD SURVEYS, ETC.) AND ARE NOT GUARANTEED TO BE TRUE AND EXACT. CONTRACTOR(S) SHALL FIELD VERIFY EXISTING CONDITIONS AND NOTIFY THE ENGINEER OF ANY DISCREPANCIES PRIOR TO PROCEEDING WITH THE AFFECTED PORTION OF THE WORK. |
| 12. | REMOVAL IN ITS ENTIRETY INCLUDES HANGERS, ELECTRICAL, CONTROLS, ETC., TO LEAVE A LIKE NEW OR MATCHING EXISTING CONDITION. |

| ABBREVIATIONS | | | |
|---------------|------------------------------|-------|--|
| A, AMP | AMPERE | MAX | MAXIMUM |
| ABN | ABANDON | MCB | MAIN CIRCUIT BREAKER |
| AFF | ABOVE FINISHED FLOOR | MCC | MOTOR CONTROL CENTER |
| AFG | ABOVE FINISHED GRADE | MDP | MAIN DISTRIBUTION PANEL |
| AIC | AMPERES INTERRUPTING CURRENT | MH | MANHOLE |
| ATS | AUTOMATIC TRANSFER SWITCH | MIN | MINIMUM |
| AWG | AMERICAN WIRE GAUGE | MLO | MAIN LUG ONLY |
| | | MOV | METAL OXIDE VARISTOR |
| | | MOD | MOTOR OPERATED DAMPER |
| | | MVA | MEGAVOLT AMPERES |
| BFF | BELOW FINISHED FLOOR | NC | NORMALLY CLOSED |
| BFG | BELOW FINISHED GRADE | NE | NORMAL EMERGENCY |
| BIL | BASIC IMPULSE LEVEL | NEC | NATIONAL ELECTRICAL CODE |
| BLDG | BUILDING | NEMA | NATIONAL ELECTRICAL MANUFACTURER'S ASSOCIATION |
| | | NIC | NOT IN CONTRACT |
| | | NO | NORMALLY OPEN |
| | | NTS | NOT TO SCALE |
| C | CONDUIT | OC | ON CENTER |
| CB | CIRCUIT BREAKER | OH | OVERHEAD |
| CONC | CONCRETE | | |
| CONN | CONNECTION | P | POLE |
| CT | CURRENT TRANSFORMER | PF | PROVISIONS FOR FUTURE BREAKER |
| CU | COPPER | PH, φ | PHASE |
| | | PNL | PANEL |
| | | PT | POTENTIAL TRANSFORMER |
| | | PVC | POLYVINYLCHLORIDE |
| | | REQ'D | REQUIRED |
| | | RGS | RIGID GALVANIZED STEEL |
| | | RLA | RUNNING LOAD AMPS |
| | | RES | RESISTOR |
| | | RMC | RIGID METAL CONDUIT |
| | | RMS | ROOT MEAN SQUARE |
| | | RPM | REVOLUTIONS PER MINUTE |
| | | RX | REMOVE EXISTING |
| | | SEC | SECOND |
| | | SYM | SYMMETRICAL |
| | | TEMP | TEMPERATURE |
| | | TRANS | TRANSFORMER |
| | | TYP | TYPICAL |
| | | UG | UNDERGROUND |
| | | UH | UNIT HEATER |
| | | UNO | UNLESS NOTED OTHERWISE |
| | | V | VOLTS |
| | | VAC | VOLTS ALTERNATING CURRENT |
| | | VM | VOLT METER |
| | | VP | VAPOR PROOF |
| | | W | WIRE |
| | | WG | WIRE GUARD |
| | | W/ | WITH |
| | | W/O | WITHOUT |
| | | WT | WEIGHT |
| | | XFMR | TRANSFORMER |
| GA | GAUGE | | |
| GALV | GALVANIZED | | |
| GC | GENERAL CONTRACTOR | | |
| GEN | GENERATOR | | |
| GR | GRADE | | |
| GRD | GROUND | | |
| HP | HORSEPOWER | | |
| HZ | HERTZ | | |
| INT | INTERRUPTING | | |
| KA | KILO AMPERE | | |
| KCMIL | THOUSAND CIRCULAR MILS | | |
| KV | KILOVOLT | | |
| KVA | KILOVOLT AMPERES | | |
| KVAR | KILOVOLT AMPERES REACTIVE | | |
| KW | KILOWATT | | |
| KWH | KILOWATT HOUR | | |
| LA | LIGHTNING ARRESTOR | | |
| L-N | LINE TO NEUTRAL | | |



| GENERAL SYMBOL NOTES: | |
|-----------------------|--|
| 1. | EXISTING DEVICES TO REMAIN ARE SHOWN IN LIGHT LINEWEIGHT. |
| 2. | EXISTING DEVICES TO BE REMOVED ARE SHOWN IN DASHED LINEWEIGHT. |
| 3. | NOT ALL ABBREVIATIONS & SYMBOLS MAY APPLY TO THIS PROJECT. |

| DRAWING CONVENTIONS | |
|---|---|
|  | DRAWING NOTE - REFER TO DRAWING NOTE LIST ON SHEET (NEW WORK) |
|  | DRAWING NOTE - REFER TO DRAWING NOTE LIST ON SHEET (DEMOLITION) |
|  | FEEDER TAG - REFER TO FEEDER SCHEDULE ON DRAWING EX.XXX |

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PROJECT

FRANCIS HARVEY GREEN LIBRARY - STARBUCKS RENOVATION

WEST CHESTER UNIVERSITY OF PENNSYLVANIA
25 WEST ROSEDALE AVE
WEST CHESTER, PA 19383

REVISIONS

| No. | Date | Revision |
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Sheet Title:

ELECTRICAL LEGEND

WCU Project Number - Issue Phase:
WC2502 - ISSUED FOR BID

Issue Date:
MARCH 15, 2025

Drawing Scale:
AS NOTED

Drawing Path:

Drawn By:
SAM

Reviewed By:
BRW

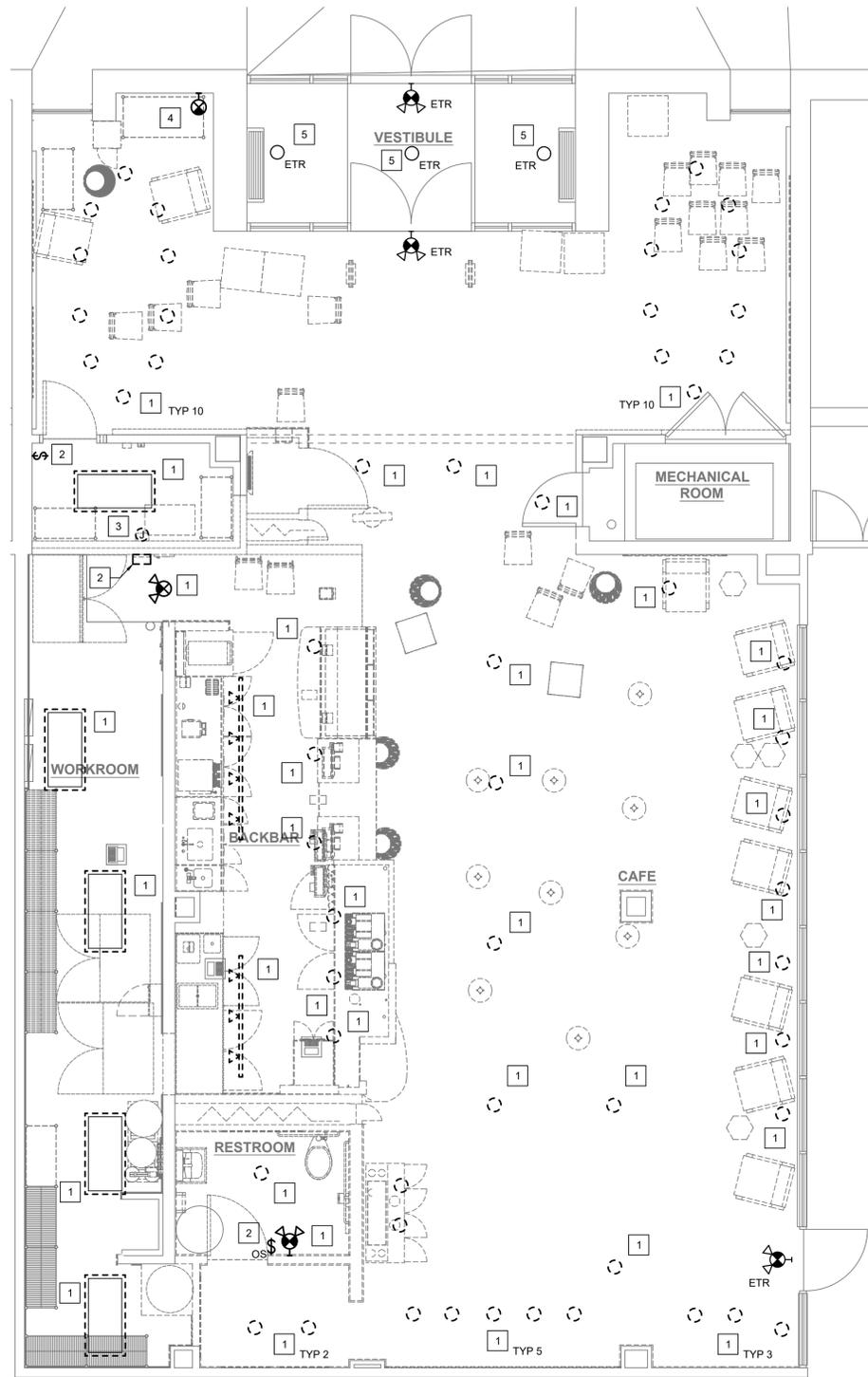
Project Number:
24-048

Drawing No.
E001

File Name:

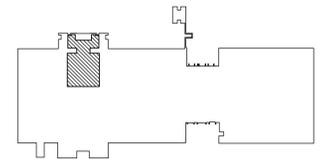
Plot Scale:
1:1

Paper Size:
24" x 36"



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

- LICENSED STORES RESPONSIBILITY LEGEND**
- SB - STARBUCKS
 - FC - STARBUCKS FIXTURE CONTRACTOR
 - LC - LICENSEE
 - GC - LICENSEE'S GENERAL CONTRACTOR



KEY PLAN - FIRST FLOOR

GENERAL NOTES:

1. IF DURING DEMOLITION CONDITIONS ARE REVEALED THAT MAY JEOPARDIZE THE INTEGRITY OF STRUCTURE OR PRECLUDE FOLLOWING DESIGN INTENT, GENERAL CONTRACTOR TO IMMEDIATELY NOTIFY ARCHITECT OF RECORD AND STARBUCKS PROJECT DEVELOPMENT MANAGER.
2. GENERAL CONTRACTOR IS RESPONSIBLE FOR SITE INVESTIGATION PRIOR TO DEMOLITION TO REVEAL FULL SCOPE OF WORK. NOTIFY ARCHITECT OF RECORD IF EXISTING CONDITIONS DEVIATE FROM CONSTRUCTION DOCUMENTS.
3. LABEL ALL EXISTING ITEMS THAT ARE TO BE PRESERVED AND PROPERLY STORED FOR RE-INSTALLATION.
4. DEMOLISH AND REMOVE EXISTING WIRES, CABLES, CONDUIT, ELECTRICAL BOXES, SMOKE DETECTORS, LUMINAIRES AND WIRING, AND SUPPORT HANGERS. CUT HANGERS FLUSH. SPACES RECEIVING WALL DEMOLITION WILL ALSO HAVE CEILING DEMOLITION, UNLESS NOTED OTHERWISE.

DEMO NOTES:

1. EXISTING LUMINAIRE AND ASSOCIATED BRANCH CIRCUIT TO BE REMOVED BACK TO NEXT ACTIVE RETAINED LUMINAIRE OR SOURCE. WHERE REMOVED BACK TO SOURCE, MARK EXISTING BREAKER AS SPARE.
2. EXISTING LIGHTING CONTROL(S) AND ASSOCIATED BRANCH CIRCUITING TO BE REMOVED IN ITS ENTIRETY.
3. JUNCTION BOX AND CONDUIT TO ABOVE CEILING ASSOCIATED WITH LIGHTING CONTROLS ON OTHER SIDE OF WALL TO BE REMOVED.
4. EXISTING EXIT SIGN SHALL BE REMOVED. PLACE COVER OVER EXISTING BOX.
5. EXISTING LUMINAIRE TO BE INSPECTED, CLEANED, AND RE-LAMPED TO ENSURE PROPER OPERATION.

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RENOVATION**

WEST CHESTER UNIVERSITY
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REVISIONS

| No. | Date | Revision |
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Sheet Title:

**PARTIAL
DEMOLITION FLOOR
PLAN - LIGHTING**

WCU Project Number - Issue Phase:
WC2502 - ISSUED FOR BID

Issue Date:
MARCH 15, 2025

Drawing Scale:
AS NOTED

Drawing Path:

Drawn By:
SAM

Reviewed By:
BRW

Project Number:
24-048

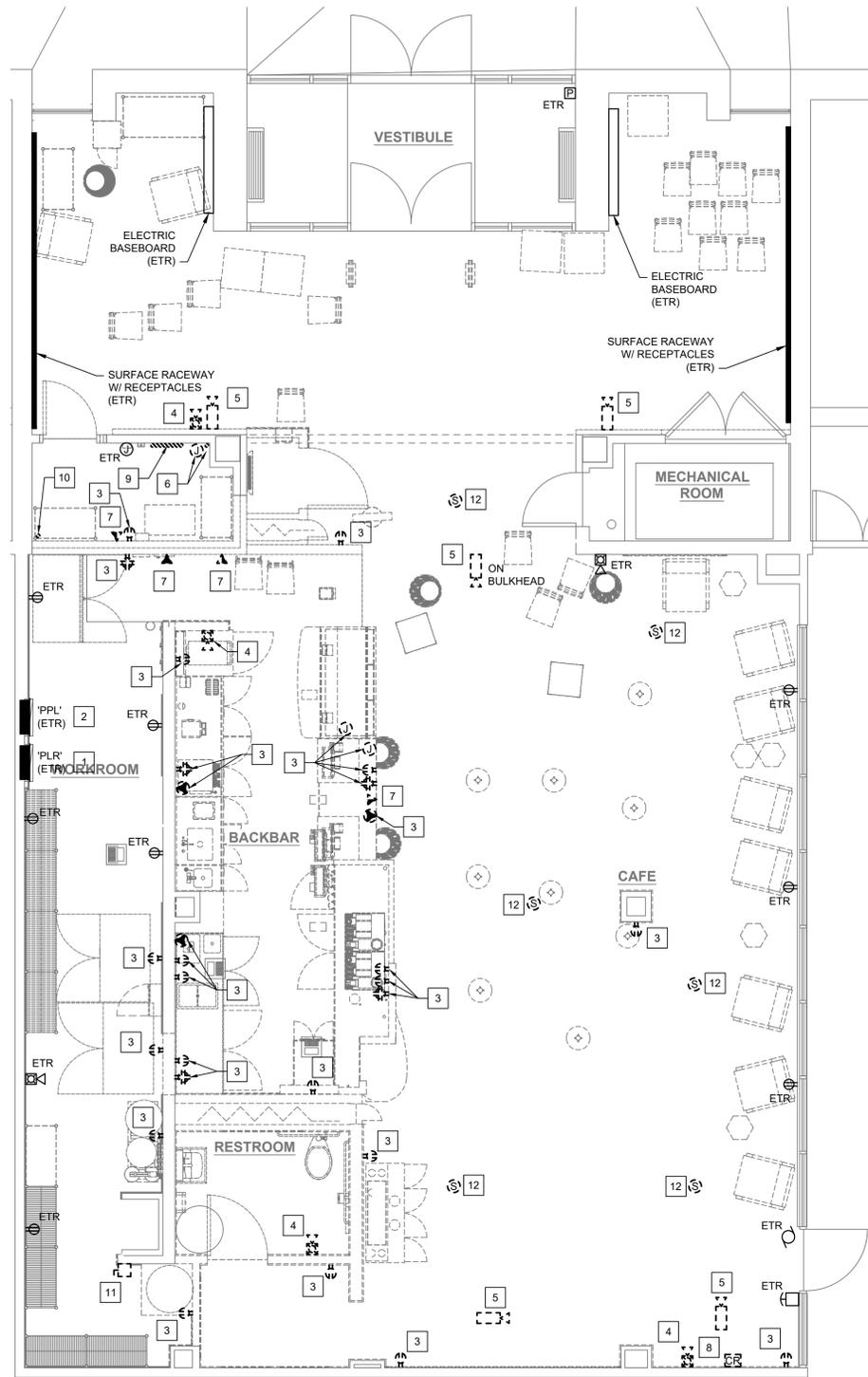
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File Name:

Plot Scale:
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Paper Size:
24" x 36"

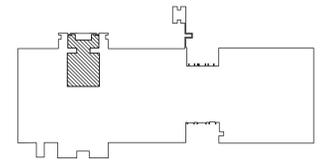
ED101



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

LICENSED STORES RESPONSIBILITY LEGEND

- SB - STARBUCKS
- FC - STARBUCKS FIXTURE CONTRACTOR
- LC - LICENSEE
- GC - LICENSEE'S GENERAL CONTRACTOR



KEY PLAN - FIRST FLOOR

GENERAL NOTES:

1. IF DURING DEMOLITION CONDITIONS ARE REVEALED THAT MAY JEOPARDIZE THE INTEGRITY OF STRUCTURE OR PRECLUDE FOLLOWING DESIGN INTENT, GENERAL CONTRACTOR TO IMMEDIATELY NOTIFY ARCHITECT OF RECORD AND STARBUCKS PROJECT DEVELOPMENT MANAGER
2. GENERAL CONTRACTOR IS RESPONSIBLE FOR SITE INVESTIGATION PRIOR TO DEMOLITION TO REVEAL FULL SCOPE OF WORK. NOTIFY ARCHITECT OF RECORD IF EXISTING CONDITIONS DEVIATE FROM CONSTRUCTION DOCUMENTS.
3. DEMOLITION PLANS REPRESENT APPROXIMATE LOCATION OF EXISTING WALLS TO BE DEMOLISHED. FIELD VERIFY TYPE OF CONSTRUCTION AND HEIGHT OF WALLS. PLANS DO NOT NECESSARILY INDICATE ALL DEMO WALLS, COUNTERS, HANDRAILS, WALL PROTECTION, CLOSETS, SINKS, ETC. PRIOR TO DEMOLITION, FIELD VERIFY THAT WALLS TO BE REMOVED DO NOT PROVIDE SUPPORT FOR EXISTING BUILDING ELEMENTS AND EXISTING CONSTRUCTION TO REMAIN. NOTIFY ARCHITECT OF RECORD IF DEMOLITION WALLS SUPPORT EXISTING BUILDING ELEMENTS.
4. GENERAL CONTRACTOR SHALL PERFORM WORK IN A MANNER THAT DOES NOT DAMAGE THE EXISTING STRUCTURE. DEMOLITION SHALL NOT COMPROMISE THE STRUCTURAL INTEGRITY OF ANY WALLS, FLOORS, CEILINGS, SUPPORTS, STRUCTURE, ETC. TO REMAIN.
5. ALL DEMOLITION MATERIALS AND DEBRIS SHALL BE DISPOSED OF ACCORDING TO FEDERAL, STATE AND LOCAL REGULATIONS.
6. REFER TO "ITEMS TO BE PRESERVED" LIST FOR ITEMS THAT SHALL BE SALVAGED FOR RELOCATION. VERIFY WITH LICENSEE FOR ON SITE STORAGE LOCATION OF SALVAGED ITEMS.
7. DAMAGED FIREPROOFING SHALL BE REPAIRED/REPLACED TO MATCH EXISTING OR AS PER CODE.
8. THE GENERAL CONTRACTOR SHALL DEMOLISH ANY EXISTING ABANDONED VOICE/DATA CABLING AND DEAD OR NON-USE ELECTRICAL LINES BACK TO PANEL. ALL RECEPTACLES NOT RE-USED ARE TO BE REMOVED, PATCHED, AND PAINTED.
9. REMOVAL OF LOW VOLTAGE EQUIPMENT PERTAINING TO DATA/COMMUNICATIONS AND TELEPHONE SHALL BE VERIFIED BY OWNER AND/OR ARCHITECT OF RECORD PRIOR TO REMOVAL.
10. LABEL ALL EXISTING ITEMS THAT ARE TO BE PRESERVED AND PROPERLY STORED FOR RE-INSTALLATION.

DEMO NOTES:

1. EXISTING 208/120V, 3Ø, 4W, 250A MAIN BREAKER EATON PRL1A SERIES PANELBOARD.
2. EXISTING 208/120V, 3Ø, 4W, 250A MAIN BREAKER EATON PRL1A SERIES PANELBOARD.
3. DISCONNECT AND REMOVE EXISTING DEVICE AND ASSOCIATED BRANCH CIRCUITING BACK TO NEXT ACTIVE DEVICE OR SOURCE. WHERE REMOVED BACK TO SOURCE, MARK EXISTING BREAKER AS SPARE. IN EXISTING WALLS SCHEDULED TO BE RETAINED, EXISTING BOX MAY REMAIN AND BE RE-USED IF APPLICABLE TO NEW WORK.
4. EXISTING FIRE ALARM DEVICE TO BE REMOVED AND RETAINED TO ALLOW FOR REINSTALLATION UNDER NEW WORK. EXISTING WIRING TO BE REMOVED AND CIRCUIT RE-ROUTED TO MAINTAIN CONTINUITY OF EXISTING DEVICES NOT SCHEDULED FOR REMOVAL UNTIL DEVICE IS RE-INSTALLED.
5. EXISTING SECURITY CAMERA TO BE REMOVED AND RETAINED TO ALLOW FOR REINSTALLATION UNDER NEW WORK. EXISTING WIRING TO BE RETAINED TO ALLOW FOR RECONNECTION UPON RE-INSTALLATION.
6. EXISTING JUNCTION BOX AND CONDUIT FOR EXISTING FIRE ALARM AND SECURITY DEVICES ON OTHER SIDE OF WALL TO BE MOVED TO ABOVE CEILING.
7. EXISTING TELECOMMUNICATIONS DEVICE TO BE REMOVED. REMOVE ASSOCIATED CABLING BACK TO SOURCE.
8. EXISTING ACCESS CONTROL DEVICE TO BE REMOVED AND RETAINED TO ALLOW FOR REINSTALLATION UNDER NEW WORK. EXISTING WIRING TO BE RETAINED TO ALLOW FOR RECONNECTION UPON RE-INSTALLATION.
9. EXISTING CONDUITS FOR CIRCUITS FEEDING EXISTING FRONT COUNTER REGISTER AREA TO BE REMOVED BACK TO ABOVE CEILING. EXISTING IN-SLAB CONDUITS TO COUNTER AREA MAY REMAIN IF SIZED PROPERLY AND APPLICABLE TO NEW WORK.
10. EXISTING CONDUIT AND ASSOCIATED BRANCH CIRCUIT TO SURFACE RACEWAY ON THIS WALL IN VESTIBULE AREA TO BE REMOVED TO ABOVE CEILING TO ALLOW FOR CONSTRUCTION OF NEW HALLWAY. CONDUIT AND BRANCH CIRCUITING TO BE EXTENDED AND RELOCATED TO OPPOSITE CORNER OF THIS ROOM AND RECONNECTED TO SURFACE RACEWAY WHICH IS TO REMAIN. NEW WIRE AND CONDUIT SIZE SHALL MATCH EXISTING.
11. EXISTING DISCONNECT SWITCH AND ASSOCIATED BRANCH CIRCUIT FOR EXISTING WATER HEATER TO BE REMOVED AND RETAINED TO ALLOW FOR RELOCATION OF WATER HEATER AND RECONNECTION UNDER NEW WORK.
12. EXISTING SPEAKER TO BE REMOVED AND REPLACED UNDER NEW WORK. EXISTING WIRING TO BE RETAINED TO ALLOW FOR RECONNECTION UPON RE-INSTALLATION.

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ARCHITECTURAL CONCEPTS, PC

Architecture and Interior Design

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The Grinnet Mansion
626 West Lincoln Highway
Exton, Pennsylvania 19341

PROJECT

FRANCIS HARVEY GREEN
LIBRARY - STARBUCKS
RENOVATION

WEST CHESTER UNIVERSITY
OF PENNSYLVANIA
25 WEST ROSEDALE AVE
WEST CHESTER, PA 19383

REVISIONS

| No. | Date | Revision |
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Sheet Title:
**PARTIAL
DEMOLITION FLOOR
PLAN - ELECTRICAL**

WCU Project Number - Issue Phase:
WC2502 - ISSUED FOR BID

Issue Date:
MARCH 15, 2025

Drawing Scale:
AS NOTED

Drawing Path:

Drawn By:
SAM

Reviewed By:
BRW

Project Number:
24-048

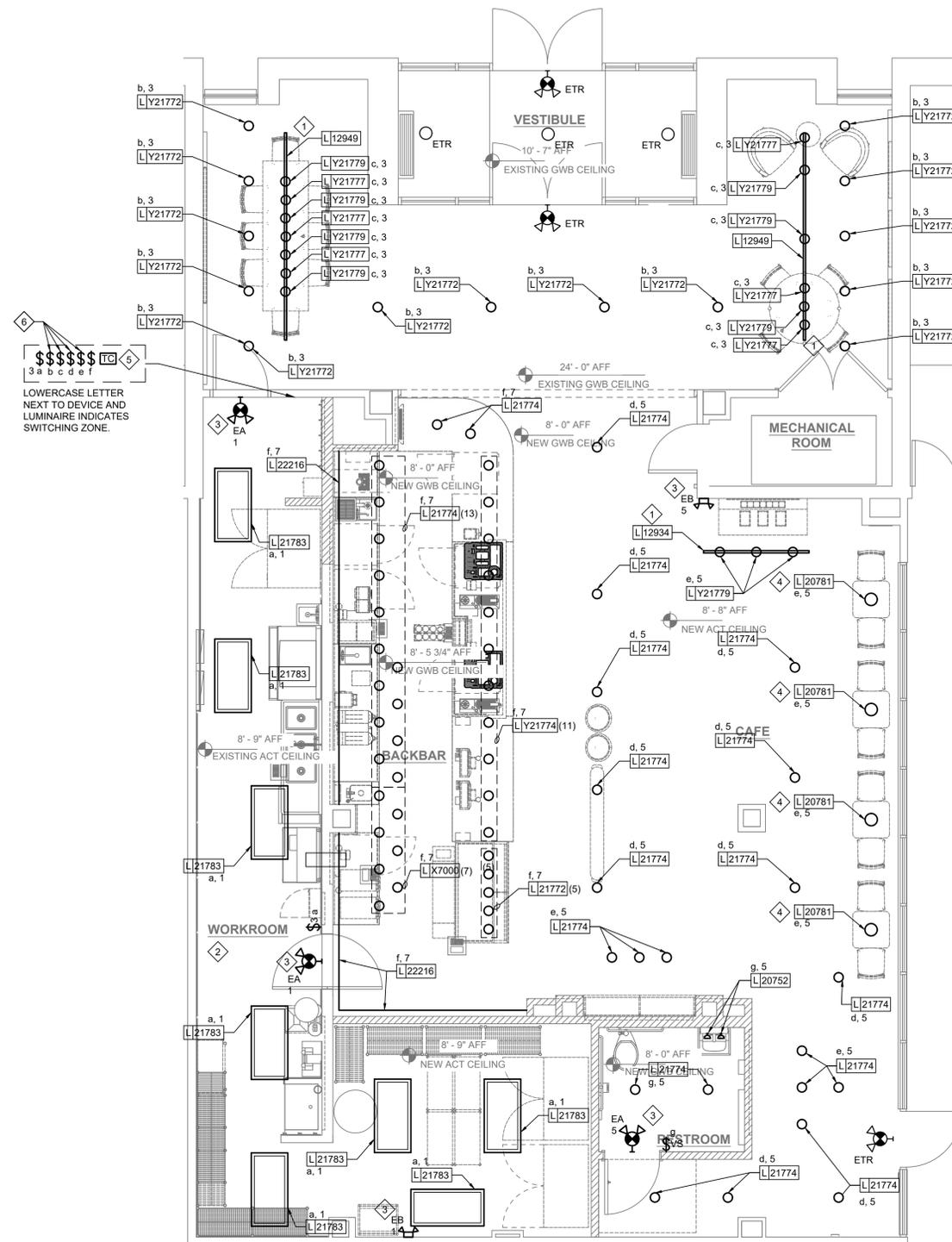
Drawing No.

File Name:

Plot Scale:
1:1

Paper Size:
24" x 36"

ED102



\$\$\$\$\$ I 5
 3 a b c d e f
 LOWERCASE LETTER
 NEXT TO DEVICE AND
 LUMINAIRE INDICATES
 SWITCHING ZONE.

GENERAL NOTES:

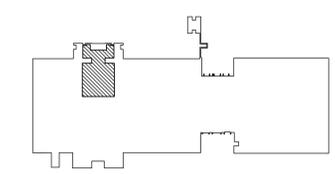
- ALL LUMINAIRES IN WORK ROOM, BACK AND FRONT LINE, ABOVE CONDIMENT CART, AND ANY OTHER AREAS WHERE EXPOSED FOOD, CLEAN EQUIPMENT OR UTENSILS, OR UNWRAPPED SINGLE SERVICE ITEMS WILL BE EXPOSED, SHALL HAVE SHATTERPROOF LAMPS IF THE LUMINAIRE IS NOT LENSED.
- PROVIDE GROMMET AT ALL CEILING PENETRATIONS FOR LUMINAIRES/SUPPORTS.
- ADJUST FOCUS OF ALL TRACK AND RECESSED DIRECTIONAL LIGHTING TO FULLY ILLUMINATE ALL ARTWORK, MENU BOARDS, AND MERCHANDISE BAYS. COORDINATE AIMING WITH OWNER.
- BALLAST BOXES, TRANSFORMERS, JUNCTION BOXES, AND WIRING FOR ALL LUMINAIRES TO BE INSTALLED HIDDEN FROM VIEW.
- UNLESS NOTED OTHERWISE, ALL LUMINAIRES SHALL BE CIRCUITED TO PANELBOARD PPL LOCATED IN BACK ROOM.

KEYED NOTES:

- SURFACE MOUNT LIGHT TRACK DIRECTLY TO CEILING/SOFFIT
- LUMINAIRE IN ACOUSTICAL CEILING TILE TO BE CENTERED IN TILE, UNO.
- EMERGENCY LIGHTS & EXIT SIGNS SHALL BE WIRED AHEAD OF SWITCHED LUMINAIRES ON CIRCUIT.
- IF PENDANT CYLINDERS CAN SUSPENDED LENGTH EXCEEDS 48" (1220MM) FROM CEILING, REPLACE WITH SURFACE MOUNTED CYLINDER CANS AND SUSPEND WITH GENERAL CONTRACTOR SUPPLIED CONDUIT AND J-BOX TO DIMENSIONED HEIGHT.
- FOUR CHANNEL DIGITAL ASTRONOMIC TIME CLOCK FOR CONTROL OF DINING AREA LIGHTING. MOUNT AT 48" A.F.F. THE TIME CLOCK SHALL BE 7-DAY WITH SETTINGS FOR SEVEN DIFFERENT DAY TYPES PER WEEK, HOLIDAY SHUTOFF, HAVE MIN. 10 HR. BACKUP AND HAVE A MANUALLY CONTROLLER OVERRIDE SWITCH THAT SHALL PERMIT THE LIGHTING TO REMAIN ON FOR NOT MORE THAN 2 HOURS.
- WIRE LUMINAIRES THROUGH TIME CLOCK LOCATED IN WORKROOM.

LUMINAIRE TAG LEGEND
 REFER TO LUMINAIRE SCHEDULE ON DRAWING E701
 LYXXXXX LUMINAIRE DESIGN I.D.

LICENSED STORES RESPONSIBILITY LEGEND
 SB - STARBUCKS
 FC - STARBUCKS FIXTURE CONTRACTOR
 LC - LICENSEE
 GC - LICENSEE'S GENERAL CONTRACTOR



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

OWNER



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PROJECT

**FRANCIS HARVEY GREEN
LIBRARY - STARBUCKS
RENOVATION**

WEST CHESTER UNIVERSITY
OF PENNSYLVANIA
25 WEST ROSEDALE AVE
WEST CHESTER, PA 19383

REVISIONS

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Sheet Title:
**PARTIAL
FLOOR PLAN
- LIGHTING**

WCU Project Number - Issue Phase:
WC2502 - ISSUED FOR BID

Issue Date:
MARCH 15, 2025

Drawing Scale:
AS NOTED

Drawing Path:

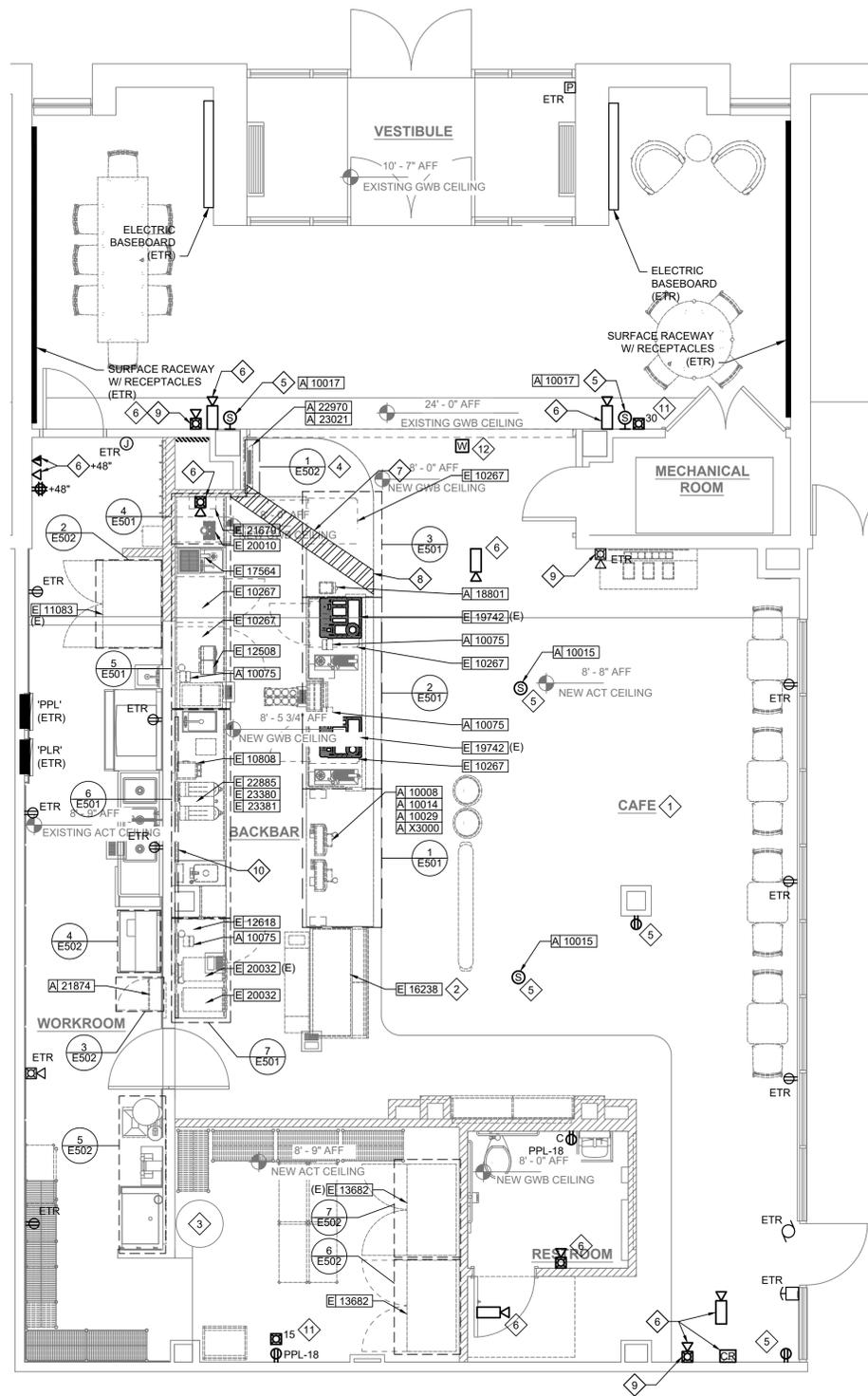
Drawn By:
DJC Reviewed By:
BRW

Project Number:
24-048 Drawing No.

File Name:
E101

Plot Scale:
1:1

Paper Size:
24" x 36"



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

GENERAL NOTES:

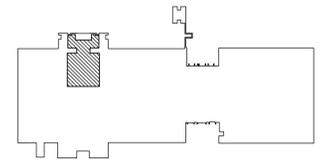
- REFER TO ELECTRICAL DETAIL SHEETS FOR EXACT LOCATIONS AND MOUNTING HEIGHTS OF ELECTRICAL DEVICES.
- GENERAL CONTRACTOR IS RESPONSIBLE FOR CONFIRMING ALL VOLTAGE REQUIREMENTS ON ALL EQUIPMENT AND PROVIDING BUCK-BOOST TRANSFORMERS AS MAY BE NEEDED FOR CODE. ALL ARE NOT NECESSARILY INDICATED.
- GENERAL CONTRACTOR SHALL COORDINATE WITH PLUMBING AND HEATING, VENTILATING, AND AIR CONDITIONING (HVAC) CONTRACTORS FOR ANY ADDITIONAL EQUIPMENT NEEDING POWER.
- ANY EQUIPMENT NOTED AS 'FUTURE' SHALL BE PROVIDED WITH APPROPRIATE RECEPTACLES AND WIRING TO ENABLE FUTURE OPERATION.
- GROUND FAULT CIRCUIT INTERRUPTER (GFCI) BREAKERS (NOT RECEPTACLES) SHALL BE UTILIZED WHERE REQUIRED BY CODE AND AT ANY FLOOR BOXES. PROVIDE DEDICATED NEUTRAL WIRE FOR ALL THESE CIRCUITS.
- EQUIPMENT REQUIRES CONNECTION TO THE BUILDING ELECTRICAL SYSTEM. FURNISH AND INSTALL ALL NECESSARY CONDUIT, WIRE, CONNECTIONS, RECEPTACLES AND OVERCURRENT PROTECTION NECESSARY TO ENSURE THE EQUIPMENT FUNCTIONS PROPERLY AND COMPLIES WITH ALL APPLICABLE LOCAL AND NATIONAL CODES. COORDINATE EQUIPMENT REQUIREMENTS WITH MANUFACTURER CUT SHEET PRIOR TO ROUGH-IN.
- ALL FRONT BAR J-BOXES AND OUTLETS SHALL BE SURFACE MOUNTED. PROVIDE CONDUITS AS NEEDED AND ONE (1) ADDITIONAL SPARE CONDUIT BETWEEN ALL J-BOXES FOR FUTURE ELECTRICAL REQUIREMENTS. ALL J-BOXES SHALL BE POSITIONED TO AVOID OBSTRUCTION OF ANY EQUIPMENT SUCH AS REFRIGERATORS AND DISHWASHERS.
- WHERE TELECOMMUNICATIONS DEVICES ARE SHOWN, ELECTRICAL CONTRACTOR TO PROVIDE CONDUIT PATHWAY WITH PULL STRING TO ABOVE ACCESSIBLE CEILING AND BACKBOX. UNIVERSITY'S TELECOMMUNICATIONS CONTRACTOR TO PROVIDE DEVICE AND CABLING.

KEYED NOTES:

- CONVENIENCE OUTLETS LOCATED IN RETAIL AREA AT 18" A.F.F.
- RUN ELECTRICAL FROM STUB-UPS IN POS CABINET TO J-BOX FOR FOOD CASE.
- EXTEND EXISTING CIRCUIT, REINSTALL EXISTING DISCONNECT AND PROVIDE ELECTRICAL CONNECTION FOR RELOCATED WATER HEATER.
- PROVIDE ELECTRICAL CONNECTIONS AS REQUIRED FOR INTERNAL AND EXTERNAL ILLUMINATED SIGNAGE.
- CONNECT NEW DEVICE TO EXISTING CIRCUIT IN THIS AREA MAINTAINED DURING DEMOLITION.
- RECONNECT EXISTING DEVICE TO EXISTING CIRCUIT IN THIS AREA MAINTAINED DURING DEMOLITION.
- EXISTING FLOOR SHALL BE SAWCUT, TRENCHED, BACKFILLED, AND PATCHED TO MATCH EXISTING CONDITIONS FOR INSTALLATION OF SIX (6) 1" POWER AND ONE (1) 2" DATA CONDUITS FOR FRONT BAR. COORDINATE EXACT ROUTING AND LOCATION IN FIELD PRIOR TO STARTING WORK. POWER CONDUITS SHALL CONTAIN TWO (2) 120V, 20A CIRCUITS MAXIMUM.
- EXTEND BRANCH CIRCUITING FOR DEVICES IN COUNTER CASEWORK. COORDINATE WITH ARCHITECT PRIOR TO ROUGH-IN.
- IDENTIFY CANDELA RATING FOR EXISTING FIRE ALARM NOTIFICATION DEVICES. IF CANDELA RATING OF DEVICES ARE NOT CODE COMPLIANT, ADJUST CANDELA RATING IF APPLICABLE OR REPLACE UNDER NEW WORK.
- SEE DETAIL 8 ON SHEET E501 FOR FUTURE DIGITAL MENU BOARD ROUGH-IN REQUIREMENTS ALONG THIS WALL.
- PROVIDE NEW FIRE ALARM STROBE AND CONNECT TO EXISTING NOTIFICATION CIRCUIT IN THIS AREA.
- PROVIDE JUNCTION BOX AT PROPOSED WIRELESS ACCESS POINT LOCATION. PROVIDE 3/4" CONDUIT WITH PULL STRING FROM BOX TO ACCESSIBLE CEILING AREA. COORDINATE WITH OWNER PRIOR TO ROUGH-IN.

EQUIPMENT/DATA TAG LEGEND
 REFER TO EQUIPMENT AND DATA DEVICE SCHEDULES ON DRAWING E701
 EQUIPMENT/DATA DESIGN I.D.

LICENSED STORES RESPONSIBILITY LEGEND
 SB - STARBUCKS
 FC - STARBUCKS FIXTURE CONTRACTOR
 LC - LICENSEE
 GC - LICENSEE'S GENERAL CONTRACTOR



KEY PLAN - FIRST FLOOR

OWNER



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PROJECT

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RENOVATION**

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REVISIONS

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Sheet Title:
PARTIAL FLOOR PLAN - ELECTRICAL

WCU Project Number - Issue Phase:
WC2502 - ISSUED FOR BID

Issue Date:
MARCH 15, 2025

Drawing Scale:
AS NOTED

Drawing Path:

Drawn By: **DJC** Reviewed By: **BRW**

Project Number: **24-048** Drawing No.

File Name:

Plot Scale: **1:1**

Paper Size: **24" x 36"**

E102

OWNER



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Sheet Title:
**ELECTRICAL
DETAILS**

WCU Project Number - Issue Phase:
WC2502 - ISSUED FOR BID

Issue Date:
MARCH 15, 2025

Drawing Scale:
AS NOTED

Drawing Path:

Drawn By:
DJC

Reviewed By:
BRW

Project Number:
24-048

File Name:

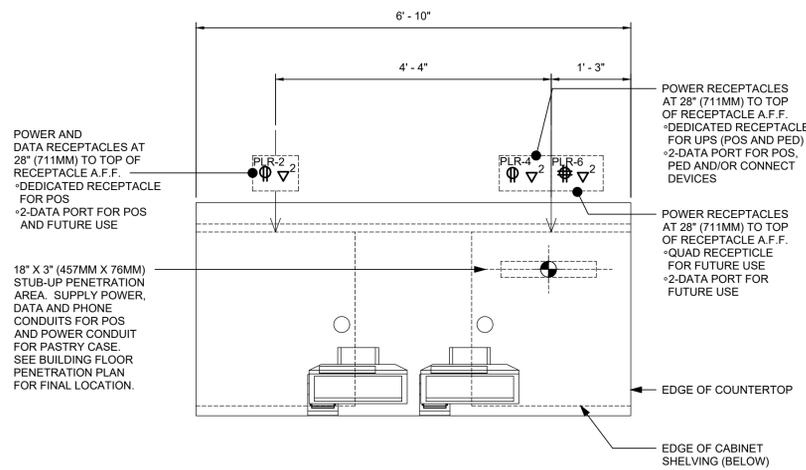
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Paper Size:
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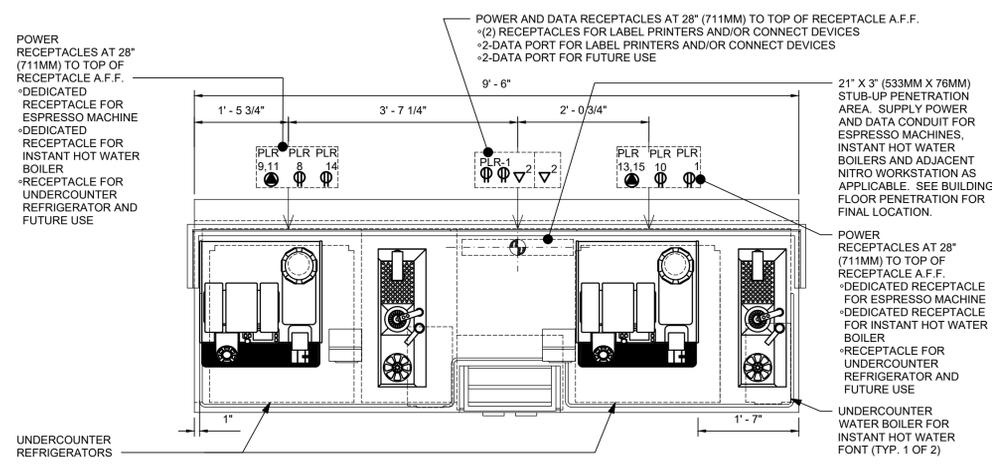
E501

GENERAL NOTES:

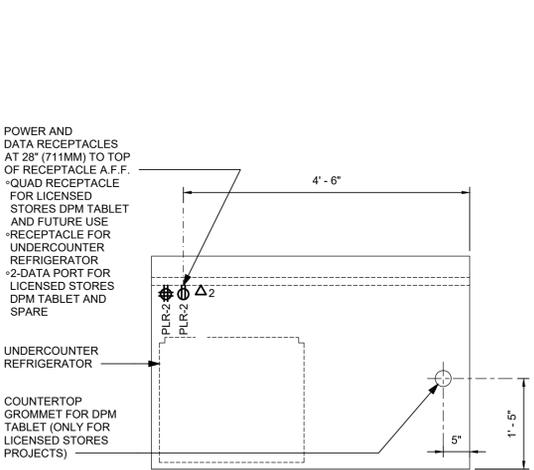
- WHERE TELECOMMUNICATIONS DEVICES ARE SHOWN, ELECTRICAL CONTRACTOR TO PROVIDE CONDUIT PATHWAY WITH PULL STRING TO ABOVE ACCESSIBLE CEILING AND BACKBOX. UNIVERSITY'S TELECOMMUNICATIONS CONTRACTOR TO PROVIDE DEVICE AND CABLEING.



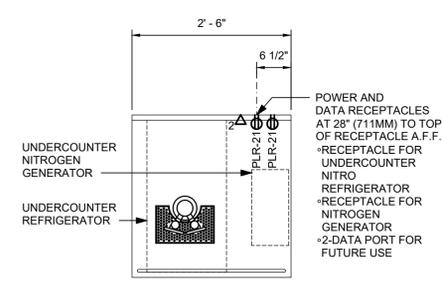
1 POS 01-01 ELECTRICAL
SCALE: NONE



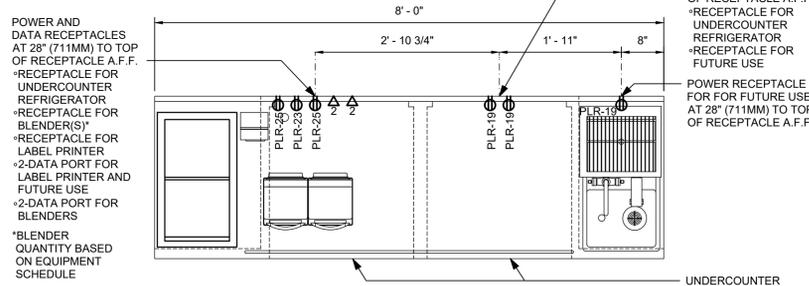
2 ESP 07-03 ELECTRICAL
SCALE: NONE



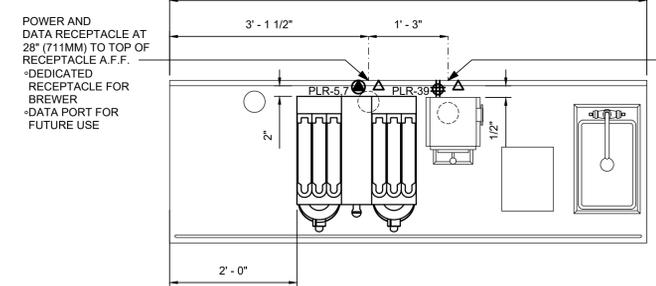
3 MOP 07-04 ELECTRICAL
SCALE: NONE



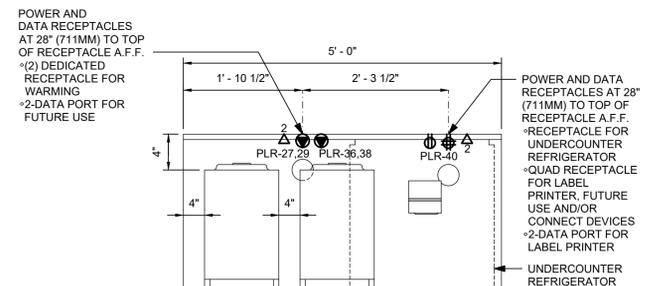
4 NIT 11-01 ELECTRICAL
SCALE: NONE



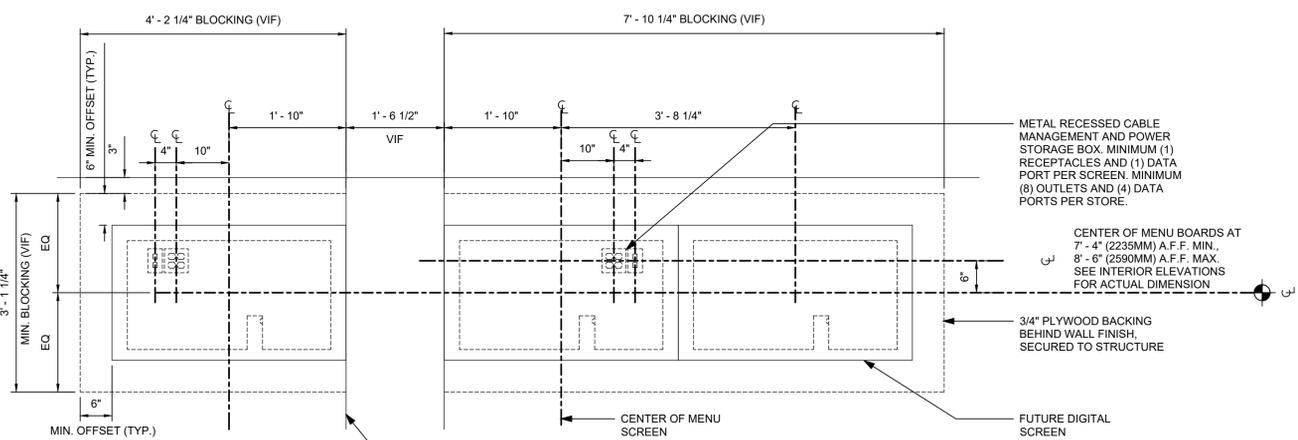
5 CBE 09-01 ELECTRICAL
SCALE: NONE



6 BRW 09-01 ELECTRICAL
SCALE: NONE



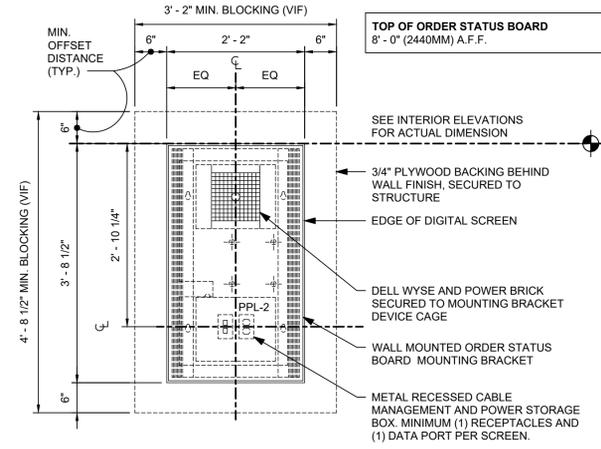
7 WRM 04-01 ELECTRICAL
SCALE: NONE



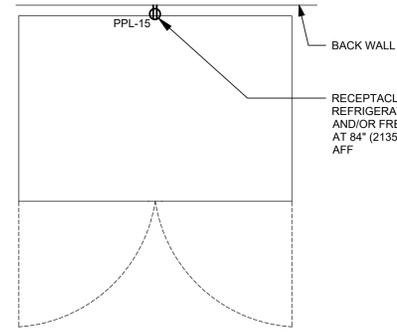
8 INFRASTRUCTURE FOR FUTURE DIGITAL MENU BOARDS
SCALE: NONE

**LICENSED STORES
RESPONSIBILITY LEGEND**

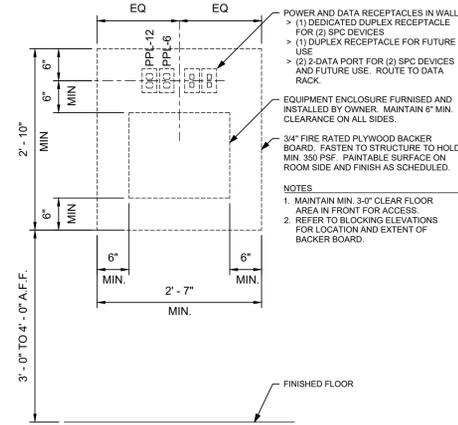
SB - STARBUCKS
FC - STARBUCKS FIXTURE CONTRACTOR
LC - LICENSEE
GC - LICENSEE'S GENERAL CONTRACTOR



1 ORDER STATUS BOARD INFRASTRUCTURE
SCALE: NONE



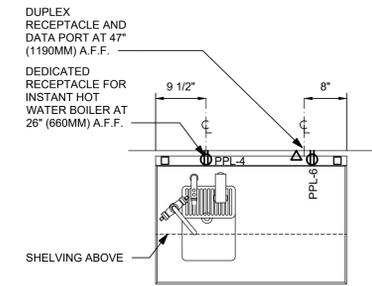
2 REFRIGERATOR/FREEZER - ELECTRICAL
SCALE: NONE



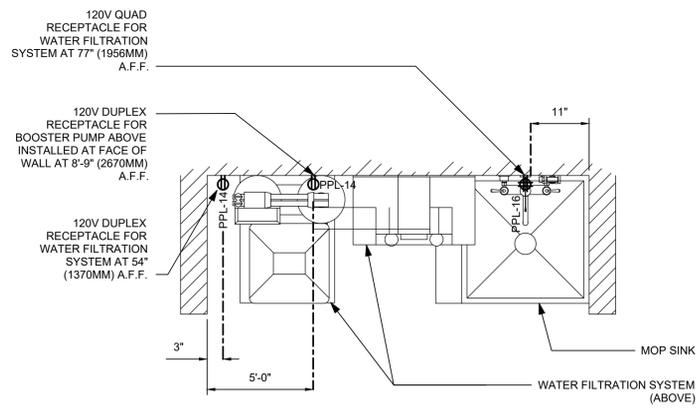
3 SPC ENCLOSURE AT WORKROOM
SCALE: NONE

GENERAL NOTES:

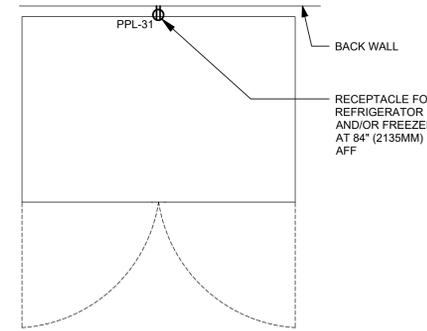
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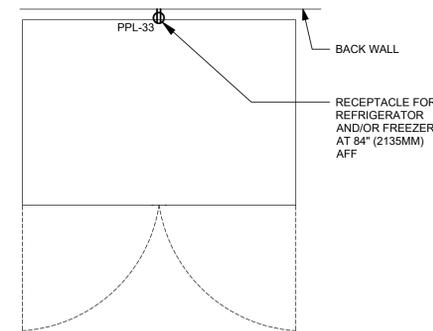
4 WATER FILLING STATION - ELECTRICAL
SCALE: NONE



5 WATER FILTRATION - CONFIGURATION III
SCALE: NONE



6 REFRIGERATOR/FREEZER - ELECTRICAL
SCALE: NONE



7 REFRIGERATOR/FREEZER - ELECTRICAL
SCALE: NONE

LICENSED STORES RESPONSIBILITY LEGEND

| | |
|------------------------------------|------------------------|
| SB - STARBUCKS | Reviewed By: BRW |
| FC - STARBUCKS FIXTURE CONTRACTOR | Project Number: 24-048 |
| LC - LICENSEE | File Name: |
| GC - LICENSEE'S GENERAL CONTRACTOR | Plot Scale: 1:1 |
| | Paper Size: 24" x 36" |

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PROJECT

FRANCIS HARVEY GREEN LIBRARY - STARBUCKS RENOVATION

WEST CHESTER UNIVERSITY OF PENNSYLVANIA
25 WEST ROSEDALE AVE
WEST CHESTER, PA 19383

REVISIONS

| No. | Date | Revision |
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Sheet Title:
ELECTRICAL DETAILS

WCU Project Number - Issue Phase:
WC2502 - ISSUED FOR BID

Issue Date:
MARCH 15, 2025

Drawing Scale:
AS NOTED

Drawing Path:

Drawn By: DJC
Reviewed By: BRW

Project Number: 24-048
Drawing No.

File Name:

Plot Scale: 1:1

Paper Size: 24" x 36"

E502

OWNER



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WEST CHESTER, PA 19383

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WEST CHESTER UNIVERSITY
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REVISIONS

Table with 3 columns: No., Date, Revision

ELECTRICAL SCHEDULES

WCU Project Number - Issue Phase:

WC2502 - ISSUED FOR BID

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E701

LICENSED STORES
RESPONSIBILITY LEGEND
SB - STARBUCKS
FC - STARBUCKS FIXTURE CONTRACTOR
LC - LICENSEE
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SPECIALTY EQUIPMENT SCHEDULE - "E"

Table with columns: DESIGN ID, COUNT, DESCRIPTION, FURN. BY, INST. BY, COMMENTS. Includes sections for COOLING, EQUIPMENT, FOOD CASE, ICE, OTHER, STORAGE.

RELOCATED (EXISTING) SPECIALTY EQUIPMENT SCHEDULE - "E"

Table with columns: DESIGN ID, COUNT, DESCRIPTION, COMMENTS. Includes COOLING, EQUIPMENT sections.

LUMINAIRE SCHEDULE - "L"

Table with columns: DESIGN ID, COUNT, DESCRIPTION, FURN. BY, INST. BY, BULB, COMMENTS. Includes sections for PENDANT, RECESSED CAN, Y21772, SCONCE, STRIP, TRACK, TROFFER, EMERGENCY/EXIT.

(E) PANELBOARD PPL

Panelboard schedule table with columns: LOCATION, VOLTAGE, MOUNTING, FEED FROM, FEED THRU TYPE, PH, W, MAIN BUS AMP, MAIN TYPE, MAIN CIRCUIT BREAKER, FEEDER SIZE, SHORT CIRCUIT RATING, DESCRIPTION, TRIP AMPS, POLES, CKT, PHASE A, PHASE B, PHASE C, CT, POLES, TRIP AMPS, DESCRIPTION.

(E) PANELBOARD PLR

Panelboard schedule table with columns: LOCATION, VOLTAGE, MOUNTING, FEED FROM, FEED THRU TYPE, PH, W, MAIN BUS AMP, MAIN TYPE, MAIN CIRCUIT BREAKER, FEEDER SIZE, SHORT CIRCUIT RATING, DESCRIPTION, TRIP AMPS, POLES, CKT, PHASE A, PHASE B, PHASE C, CT, POLES, TRIP AMPS, DESCRIPTION.