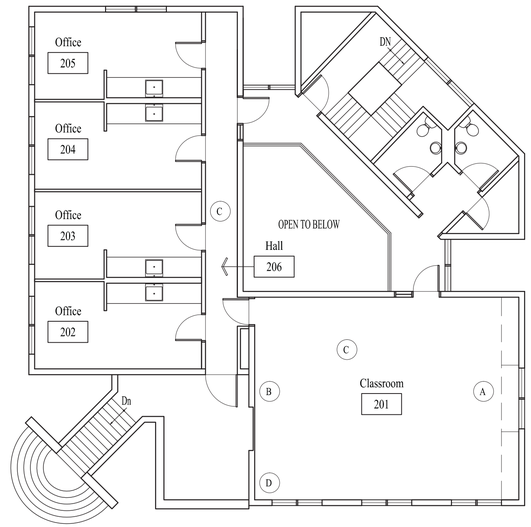
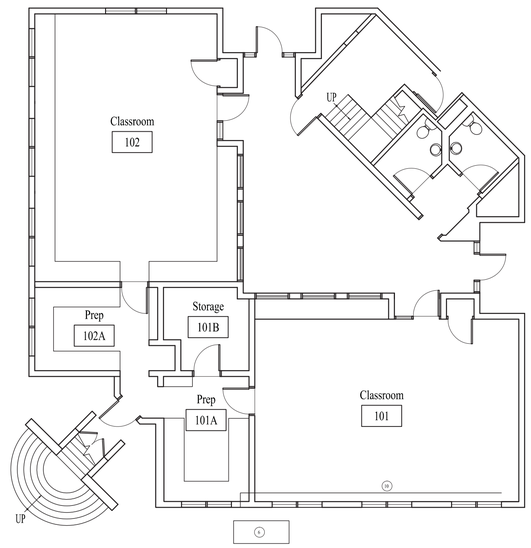


2 A2.0 2nd Floor Demolition Plan

1/8"=1'-0"



1 A2.0 1st Floor Improvement Plan

1/8"=1'-0"

SCOPE OF WORK (X)

GENERAL INTERIOR NOTES	
SYMBOL	DESCRIPTION
	ANY MATERIAL CONTAINING HAZARDOUS MATERIAL MUST BE REMOVED, ABATED, ENCAPSULATED AND/OR DISPOSED OF IN ACCORDANCE W/ SC DEPT. OF ENVIRONMENTAL PROTECTION REQUIREMENTS.
	EXISTING FIXTURES, MATERIALS OR EQUIPMENT DESIGNATED TO BE REMOVED AND SAVED FOR CLIENT'S USE WILL BE STORED IN THE EXISTING GARAGE.
	EXISTING WALLS THAT ARE DAMAGED AS PART OF THE WORK WILL BE REPLACED TO MATCH EXISTING

DEMOLITION WORK	
SYMBOL	DESCRIPTION
A	Remove Base and Wall Cabinets/shelves. Electric circuits to remain.
B	Remove Wall Mounted Chalk Board.
C	Remove Existing Carpet.
D	Remove A/V Equipment (By Owner Staff)

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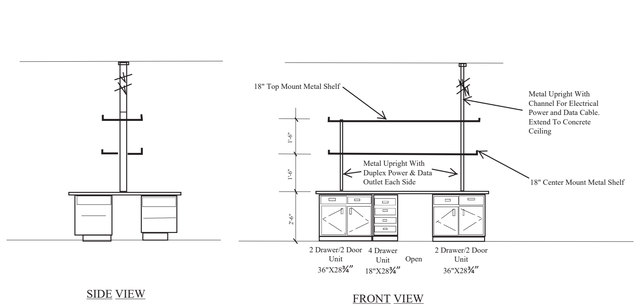
DATE	NOTES
04-07-17	Review
04-19-17	Coordination
07-12-17	Bid Set
11-06-17	Bid Set

A2.0

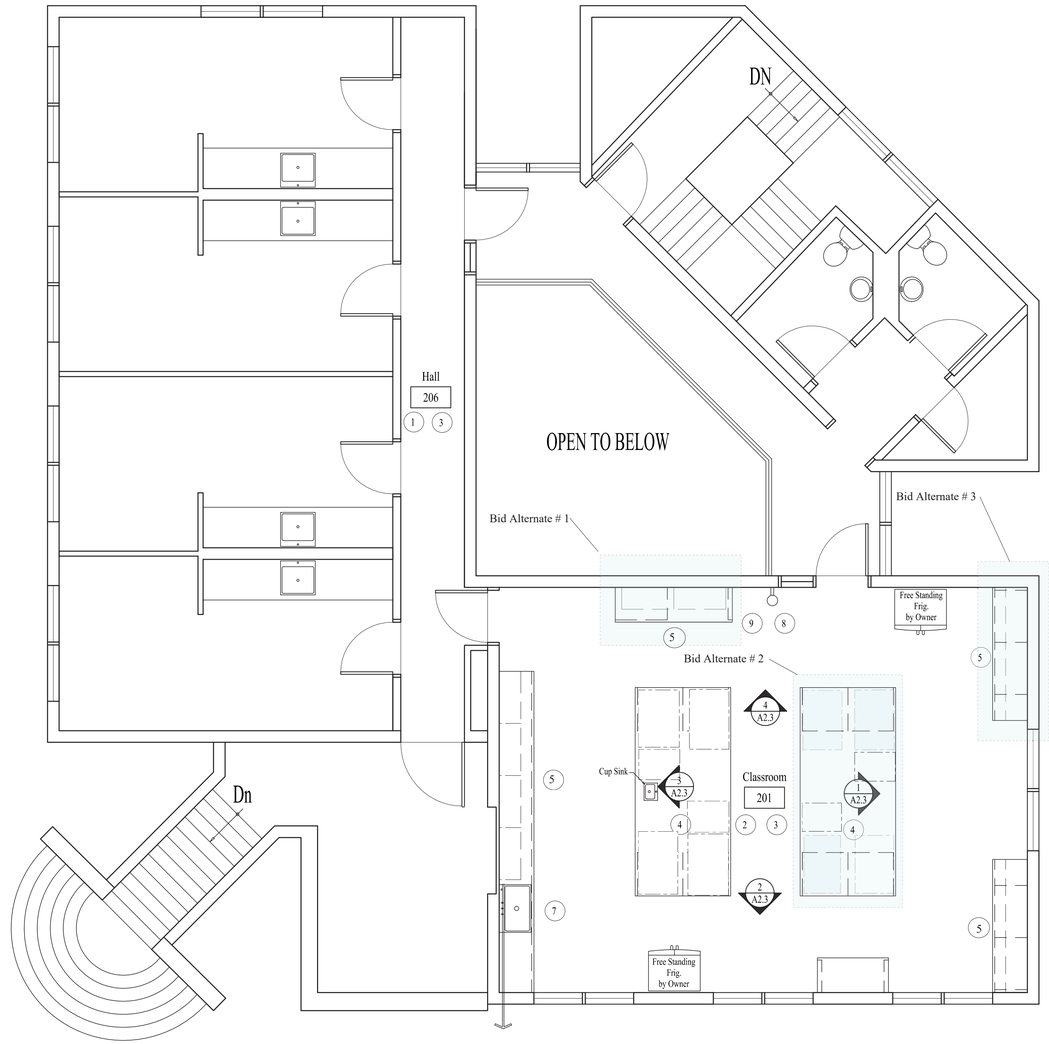


SIDE VIEW

FRONT VIEW

LAB TABLE ELEVATIONS
Typical For Two
One Includes A Cup Sink
NOT TO SCALE

IMPROVEMENT WORK	
SYMBOL	DESCRIPTION
1	New VCT Tile Flooring: Armstrong Flooring: Standard Excelon Imperial 12x12 Tiles 45deg. check pattern Antique White 51811 and Charcoal 51915. New Charcoal Wall Base.
2	New VCT Tile Flooring: Armstrong Flooring: Standard Excelon Imperial 12x12 Tiles 45deg. check pattern Antique White 51811 and Charcoal 51915. New Charcoal Wall Base.
3	Paint Walls, Doors, Trim and Ceiling.
4	New 10'X5' Lab Tables. See Lab Table Elevation This Drawing. One Table Has Cup Sink With Single Lever Goose Neck Faucet.
5	New Base and Wall Cabinets:
6	New Ground Mounted LP Gas Tank Furnished by Owner. Make Final Connections And Adjust Regulator Pressure.
7	New Top Mnt. Sink: Elkay Lusterstone Stainless sink: 31x19.5X8"
8	New Safety Shower and Eyewash Station: Bradley Corp. #S19314BFSS or approved Eq.
9	Relocate Existing Thermostat
10	New Gas Line for First Floor Existing Cabinetry. Provide (6) Chrome Angle Duplex Outlets. See Plumbing Drawings



1 A2.1 2nd Floor Improvement Plan

1/4"=1'-0"

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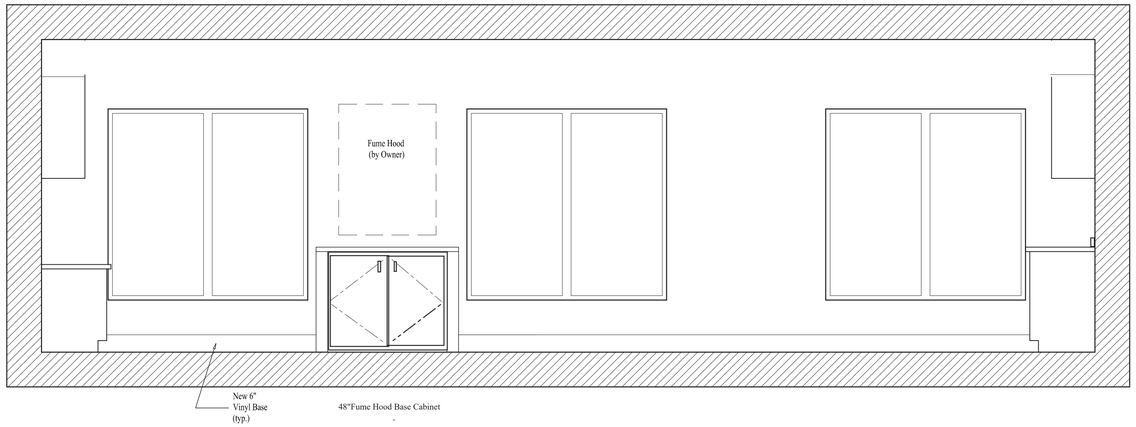
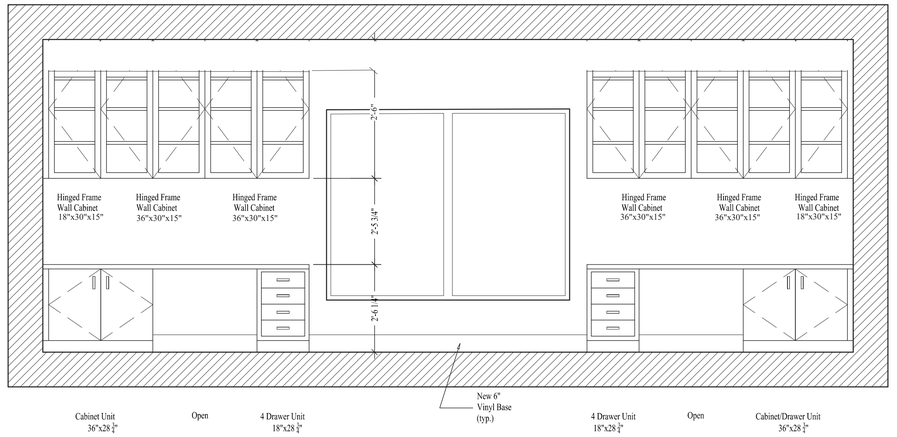


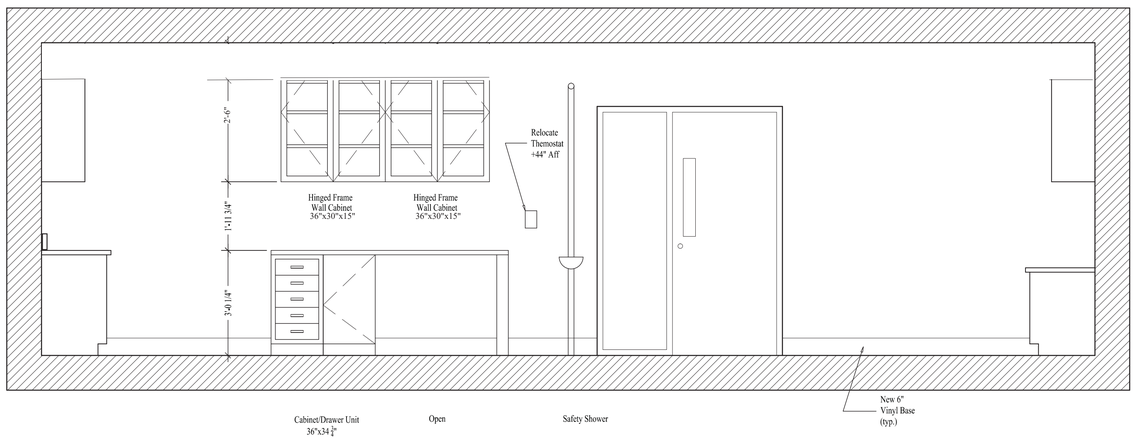
2 A2.3 Classroom Elevation

1/2" = 1'-0"



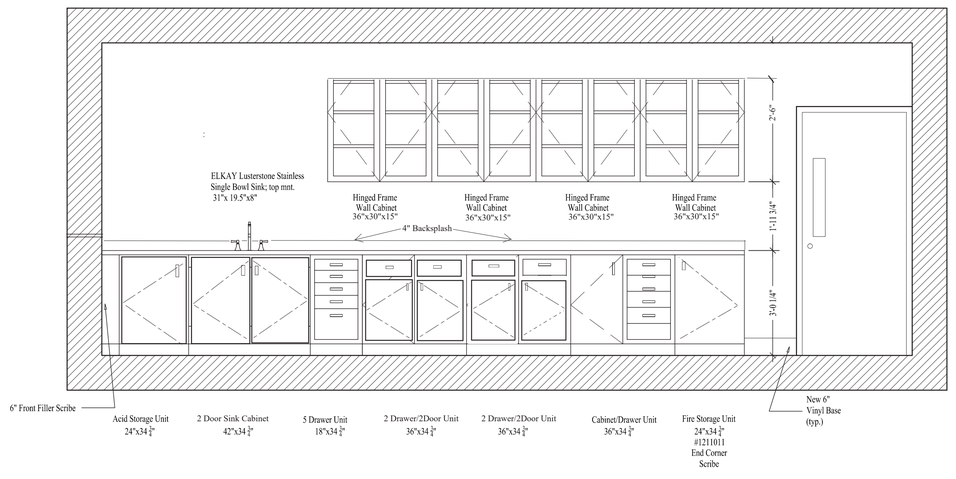
1 A2.3 Classroom Elevation

1/2" = 1'-0"



4 A2.3 Classroom Elevation

1/2" = 1'-0"



3 A2.3 Classroom Elevation

1/2" = 1'-0"

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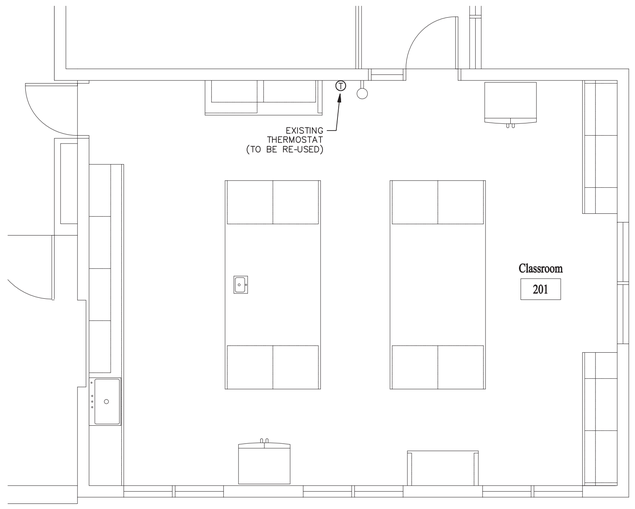
A2.2



1 M1.0 2nd Floor Mechanical Plan

1/4"=1'-0"

T EXISTING AND RELOCATED THERMOSTAT

2 M1.0 Mechanical Legend

1. ALL HVAC INSTALLATIONS SHALL BE PERFORMED IN ACCORDANCE WITH THE INTERNATIONAL BUILDING CODE, THE INTERNATIONAL MECHANICAL CODE AND ANY STATE & LOCAL CODES.
2. THERMOSTATS SHALL BE LOCATED IN SHOWN LOCATIONS.
3. ALL INSTALLATIONS SHALL BE PERFORMED IN ACCORDANCE WITH ALL APPLICABLE ORDINANCES AND REGULATIONS GOVERNING THE INSTALLATION OF HVAC EQUIPMENT.
4. EXACT LOCATION OF EXISTING THERMOSTATS, AND RE-LOCATION SHALL BE COORDINATED IN FIELD BY MECHANICAL CONTRACTOR.

3 M1.0 General Notes

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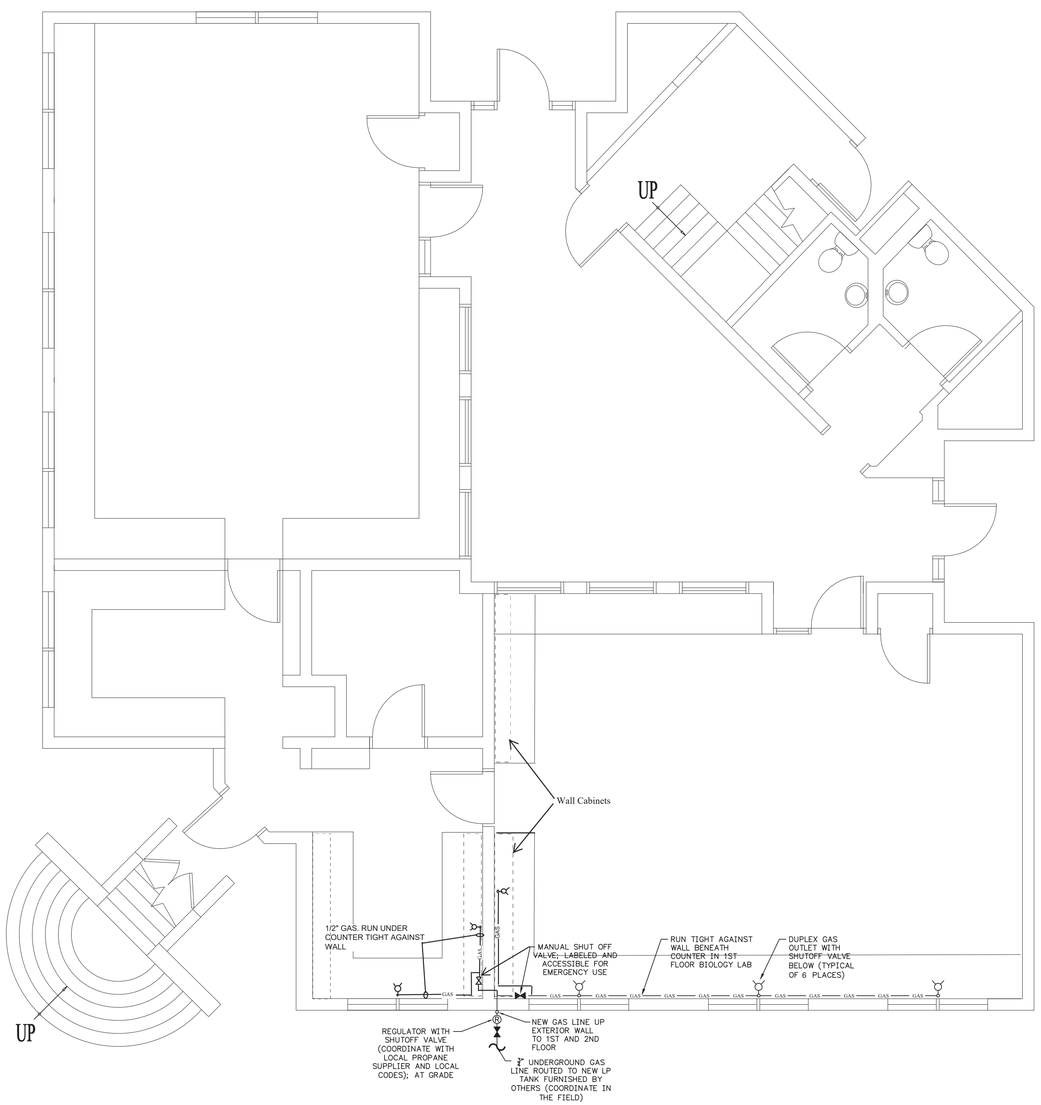
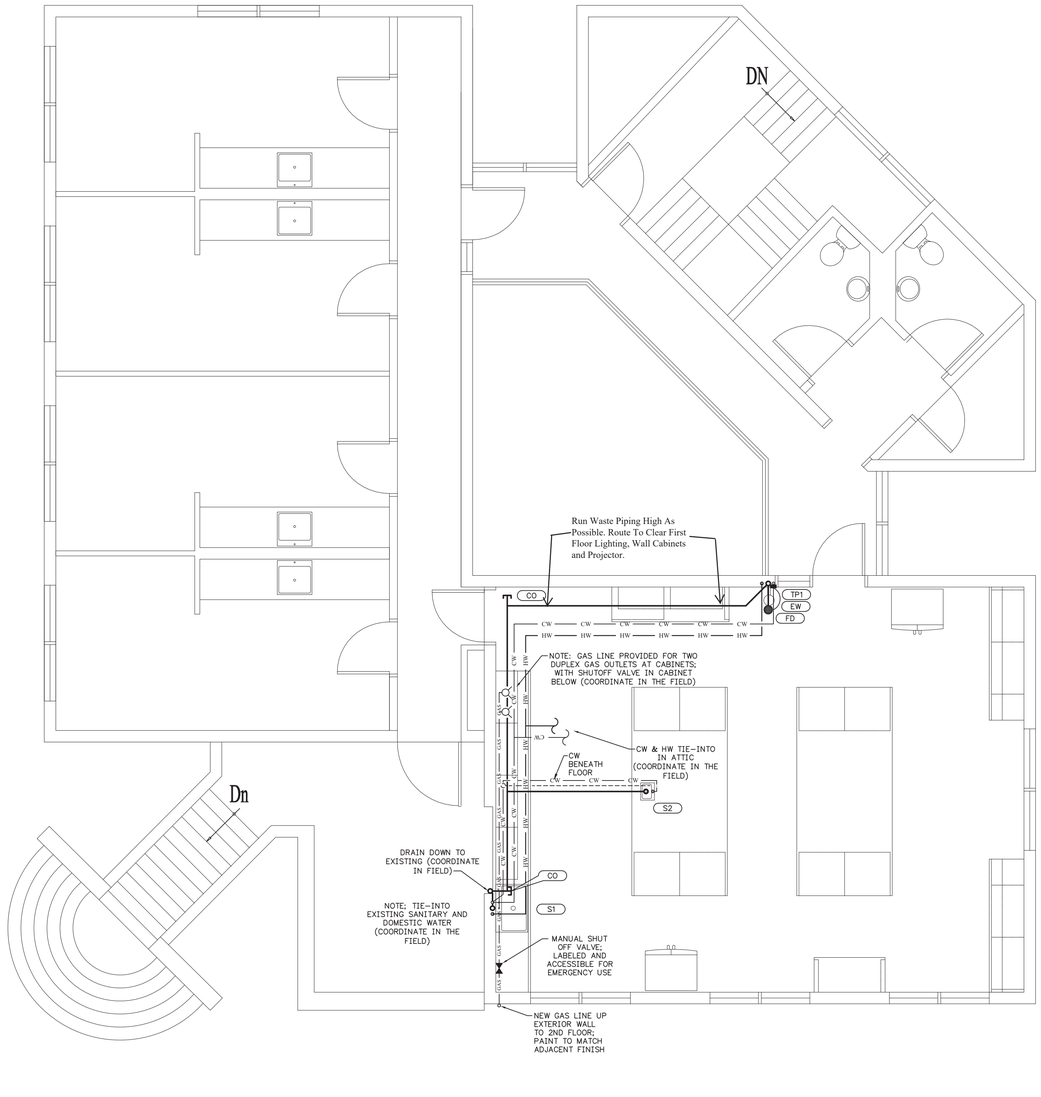
Plumbing Legend

- SANITARY VENT LINE
- SANITARY SEWER LINE
- DOMESTIC COLD WATER LINE
- DOMESTIC HOT WATER LINE
- TEMPERED WATER LINE
- TRAP PRIMER LINE
- GAS PIPING LINE
- SHUTOFF VALVE
- **C.W.** COLD WATER
- **H.W.** HOT WATER
- **B.P.C.** BY PLUMBING CONTRACTOR



1 P1.0 **1st Floor Plumbing Plan**

1/4"=1'-0"



2 P1.0 **2nd Floor Plumbing Plan**

1/4"=1'-0"

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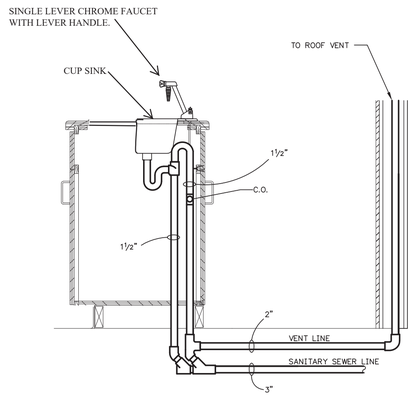
Plumbing Fixture Schedule

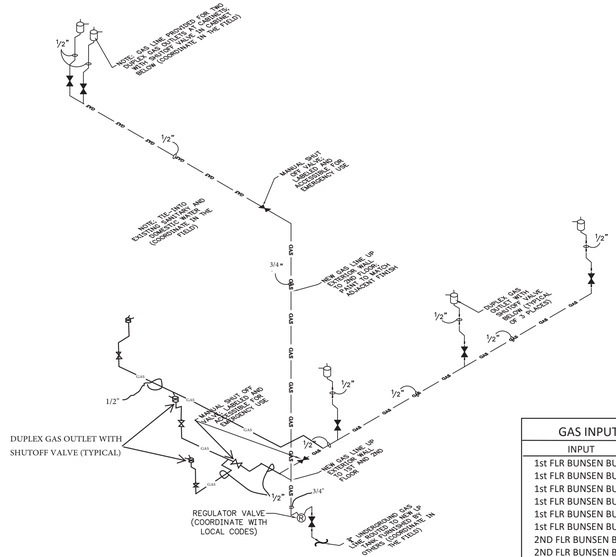
Fixture	Symbol	Description	Manufacturer	Model No.	By Plumbing Contractor	Fixture Connections				
						Trap	Waste	Vent	C.W.	H.W.
S1		Single bowl hospitality sink, stainless, top mount,	ELKAY	By Owner (Or Equal)	1½" drain & trap with cleanout, supply tubes & stops, stick type basket strainer	1½"	2"	1½"	¾"	¾"
		Kitchen faucet, two handle, widespread, solid brass fabrication, widespread–6" to 20" centers, swing spout, metal wrist blade handles, limit safety stop, ADA compliant	ZURN	Z831B4–XL (Or Equal)						
S2		Single bowl lab cup sink, furnished integral to lab table		By Lab Eq Vendor (Or Equal)	1½" drain & trap with cleanout, supply tubes & stops, stick type basket strainer	1½"	2"	2"	½"	–
		Lab faucet, furnished with lab table, install faucet (as required)		By Lab Eq Vendor (Or Equal)						
EW		Safety shower and eyewash station	Bradley	S19314BFSS (Or Equal)	All necessary appurtenances to facilitate installation	–	1¼"	1½"	¾"	¾"
FD	●	Floor drain, Dura Coated cast iron body, polished nickel bronze strainer, trap primer connection	ZURN	ZN–415–B (Or Equal)	Trap	3"	3"	1½"	–	–
TP1		Trap primer, all bronze body, integral vacuum breaker	ZURN	Z1022–XL (Or Equal)	Access cover	–	–	–	½"	–
CO	⊏	Cleanout with plug	B.P.C.	B.P.C.	B.P.C.	Refer to plans				

Plumbing Notes

1. INSTALLATION SHALL CONFORM TO THE INTERNATIONAL BUILDING CODE AND THE INTERNATIONAL PLUMBING CODE REQUIREMENTS AND GUIDELINES AND ALL APPLICABLE STATE AND LOCAL CODES. THE EXCLUSION OF DETAILED INFORMATION ON THESE DRAWINGS DOES NOT RELIEVE THE CONTRACTOR FROM THE RESPONSIBILITY TO PROVIDE A PLUMBING SYSTEM THAT COMPLIES WITH ALL APPLICABLE BUILDING CODES.
2. CONTRACTOR SHALL VERIFY DEPTH, SIZE, LOCATION OF ALL EXISTING UTILITIES IN THE FIELD BEFORE STARTING WORK.
3. CONTRACTOR SHALL COORDINATE INSTALLATION OF PLUMBING WORK WITH ALL OTHER TRADES IN ORDER TO AVOID UNNECESSARY DELAY OR INTERFERENCES.
4. ALL PLUMBING WORK AND MATERIAL SHALL BE INSTALLED IN ACCORDANCE WITH ALL APPLICABLE ORDINANCES AND REGULATIONS. CONTRACTOR SHALL OBTAIN ALL APPROVALS REQUIRED FROM REGULATING AGENCIES HAVING JURISDICTION BEFORE STARTING WORK.
5. EXPOSED WASTE DRAINS, IN RESTROOMS, SHALL BE CHROME PLATED BRASS, WITH MATCHING STOPS AND ESCUTCHEONS. ROOF PENETRATIONS SHALL BE EITHER WITH LEAD PIPE ROOF JACKS OR AN APPROVED PENETRATION PER ROOFING SUPPLIER/MANUFACTURER.
6. ALL PLUMBING WORK AND MATERIALS SHALL MEET THE REQUIREMENTS OF THE LATEST EDITION(S) OF THE LOCAL PLUMBING CODE.
7. PLUMBING CONTRACTOR SHALL FURNISH AND INSTALL ALL BACKFLOW PROTECTION DEVICES REQUIRED BY AGENCIES HAVING JURISDICTION OVER THIS INSTALLATION.
8. PLUMBING CONTRACTOR SHALL OBTAIN AND PAY FOR ALL PERMITS, FEES, AND INSPECTIONS REQUIRED BY THE GOVERNING AUTHORITIES AND WATER UTILITIES.
9. ABOVE SLAB DOMESTIC PIPING SHALL BE CONSTRUCTED OF EITHER TYPE L COPPER, SCH. 40 CPVC OR PEX PIPE. BELOW SLAB DOMESTIC PIPING SHALL BE CONSTRUCTED OF TYPE K COPPER PIPE. COPPER PIPE JOINTS SHALL BE MADE WITH 95/5 SOLDER. ALL SOLDER SHALL BE LEAD–FREE. ALL CPVC PIPE JOINTS SHALL BE GLUED FITTINGS. ALL PIPING ABOVE GRADE SHALL BE INSULATED WITH A MINIMUM OF 1–INCH RIGID FIBERGLASS INSULATION WITH FLAME RETARDANT JACKET AND VAPOR BARRIER. SEAL ALL INSULATION JOINTS AND SEAMS WITH MASTIC.
10. DIELECTRIC UNIONS SHALL BE INSTALLED AT ALL POINTS NECESSARY TO SEPARATE FERROUS AND NON–FERROUS PIPING. FERROUS–TO–NONFERROUS METAL CONTACT SHALL BE AVOIDED.
11. ALL DRAIN AND WATER PIPING SHALL BE KEPT TIGHT TO THE UNDERSIDE OF ANY EQUIPMENT AND SECURED IN PLACE.
12. PLUMBING CONTRACTOR SHALL CONCEAL, WHERE POSSIBLE, ALL PIPING AND VENT LINES IN WALLS AND OFFSET PIPING WHERE NECESSARY.
13. ALL EXPOSED PIPING IS TO BE SECURELY ANCHORED TO WALLS.
14. MAXIMUM WATER TEMPERATURE SHALL BE 120 DEG. F. ALL EXPOSED HOT WATER LINES AND DRAINS SHALL BE FULLY INSULATED. MAXIMUM WATER TEMPERATURE AT LAVATORIES SHALL BE 100DEG. F.
15. PROVIDE ESCUTCHEONS FOR ALL PIPES PASSING THROUGH FLOORS, WALLS AND CEILINGS. ESCUTCHEONS SHALL BE SECURELY FASTENED TO THE PIPE OR SLEEVE AND SHALL FIT TIGHT TO THE FLOOR, WALL, OR CEILING.
16. INSULATION FOR HOT WATER PIPES INSTALLED BELOW FLOOR SHALL BE 1" THICK URETHANE INSULATION TIED IN PLACE WITH STAINLESS STEEL WIRE. THE INSULATION SHALL BE COATED WITH MASTIC, WRAPPED WITH NYLON MEMBER FABRIC THEN COATED WITH MASTIC AND LAID ON A FIRM BED OF SAND.
17. SANITARY WASTE AND VENT PIPING SHALL BE SCHEDULE 40 PVC PIPE WITH GLUED FITTINGS OR SERVICE WEIGHT CAST IRON WITH CAST IRON FITTINGS. PIPES THROUGH FLOORS AND WALLS SHALL BE INSTALLED IN SCHEDULE 40 BLACK STEEL PIPE SLEEVES AND SHALL BE SEALED WITH NONCOMBUSTIBLE MATERIALS.
18. CONTRACTOR SHALL EQUIP EACH FIXTURE WITH A STOP VALVE (AS REQUIRED BY FIXTURE TYPE) AND SUPPLY TUBE. EXPOSED STOP VALVES AND SUPPLIES SHALL BE CHROME PLATED.
19. INSTALL SHUT–OFF VALVES ON ALL HOT AND COLD WATER LINES AS SHOWN ON DRAWINGS.
20. PROVIDE 12–INCH HIGH WATER–HAMMER AIR CHAMBERS AT EACH FIXTURE.
21. CONTRACTOR SHALL FURNISH AND INSTALL VACUUM BREAKERS AS REQUIRED BY APPLICABLE CODES.
22. ALL HORIZONTAL SOIL, WASTE, AND DRAIN PIPING SHALL BE SLOPED DOWNWARD IN THE DIRECTION OF FLOW WITH A UNIFORM GRADE OF NOT LESS THAN 1/4" PER FOOT FOR 2–1/2" AND SMALLER PIPE AND NOT LESS THAN 1/8" PER FOOT FOR 3" AND LARGER PIPE. ALL HORIZONTAL VENT PIPING SHALL BE SLOPED BACK TO THE SOIL OR WASTE PIPE WHERE IT IS CONNECTED.
23. ALL HORIZONTAL SUPPLY PIPING SHALL BE RUN PARALLEL OR PERPENDICULAR TO WALLS.
24. UNIONS SHALL BE INSTALLED IN WATER LINES AT THE MAIN CUTOFF VALVE AND ON THE CUTOFF SIDE OF ALL FIXTURES, EQUIPMENT, HEATERS, ETC. THAT ARE NOT SUPPLIED WITH VENDOR PROVIDED UNIONS.
25. VALVES INSTALLED IN AREAS SHALL BE MADE ACCESSIBLE THROUGH ACCESS PANELS. ACCESS PANELS SHALL BE PROVIDED BY THE CONTRACTOR.



ISLAND VENT DETAIL

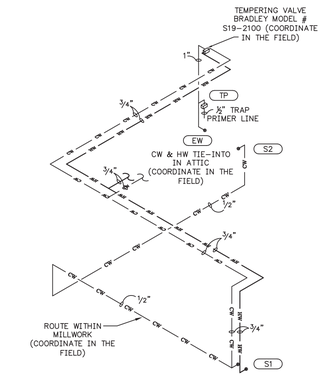


GAS RISER DIAGRAM

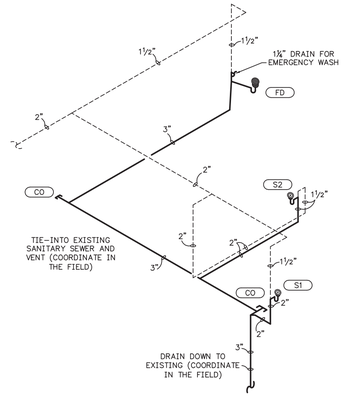
GAS INPUT INFORMATION	
INPUT	LOAD
1st FLR BUNSEN BURNER	5,000 BTUH
1st FLR BUNSEN BURNER	5,000 BTUH
1st FLR BUNSEN BURNER	5,000 BTUH
1st FLR BUNSEN BURNER	5,000 BTUH
1st FLR BUNSEN BURNER	5,000 BTUH
1st FLR BUNSEN BURNER	5,000 BTUH
2ND FLR BUNSEN BURNER	5,000 BTUH
2ND FLR BUNSEN BURNER	5,000 BTUH
TOTAL	40,000 BTUH

Gas Piping Notes

1. WORK TO INCLUDE PIPING TO NEW EXTERIOR TANK, GAS PIPING TO ALL GAS FIRED EQUIPMENT SERVING BUILDING, AND THE CONNECTION TO THE EQUIPMENT. FURNISH AND INSTALL GAS PRESSURE REGULATORS AS INDICATED ON PLANS.
2. GAS PIPING SHALL BE INSTALLED IN ACCORDANCE WITH NFPA–54 AND APPLICABLE PLUMBING/GAS CODES.
3. GAS PIPING SHALL BE SCHEDULE 40, SEAMLESS, BLACK STEEL PIPE COMPLYING WITH ANSI B36.10, ASTM A 53, OR ASTM A106.
4. PROVIDE DIRT TRAPS, SHUT–OFF VALVES AND UNIONS AT EACH CONNECTION TO GAS FIRED EQUIPMENT. PROVIDE REGULATOR AS REQUIRED AT EACH PIECE OF EQUIPMENT.
5. NEW GAS TANK FURNISHED AND INSTALLED PER LOCAL GAS CO. REQUIREMENTS.
6. ALL EXPOSED PIPING SHALL BE SECURELY ANCHORED TO WALLS.
7. GAS PIPING SHALL BE SUPPORTED AT INTERVALS NOT TO EXCEED 10'–0".
8. GAS PIPING SHALL BE INSTALLED IN ACCORDANCE WITH LOCAL UTILITY REQUIREMENTS. CONTRACTOR IS RESPONSIBLE TO INSTALL A PIPING SYSTEM THAT COMPLIES WITH ANY LOCAL UTILITY REQUIREMENTS.
9. CONTRACTOR SHALL PAY ALL FEES ASSOCIATED WITH INSTALLING GAS LINE FROM PROPERTY LINE TO METER LOCATION.



DOMESTIC WATER RISER DIAGRAM



SANITARY SEWER RISER DIAGRAM

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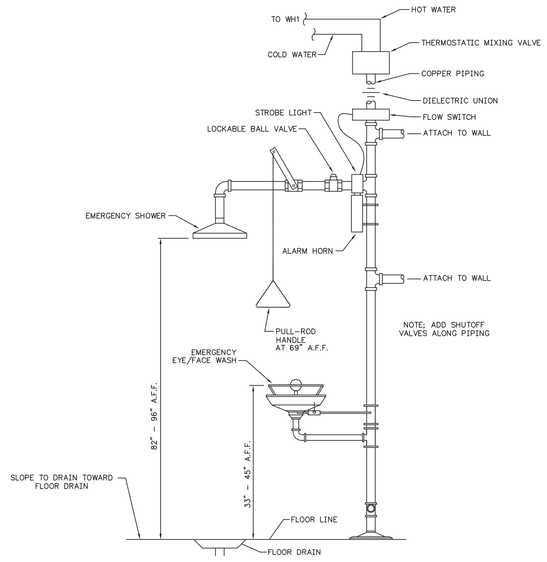
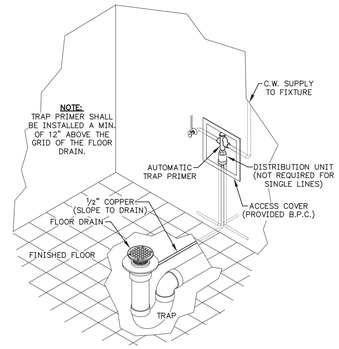
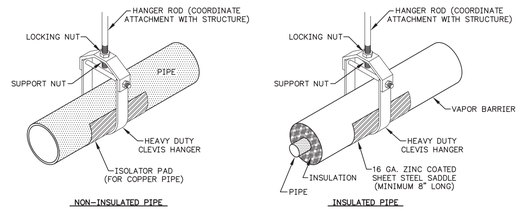


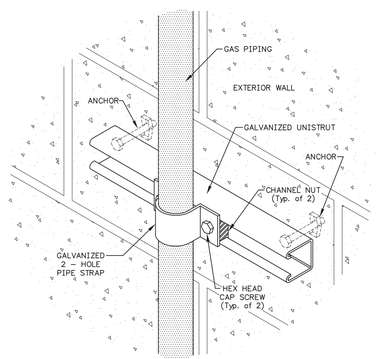
SAFETY SHOWER & EYEWASH DETAIL



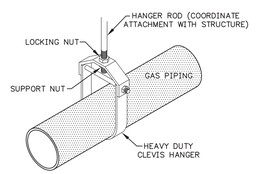
TRAP PRIMER ARRANGEMENT DETAIL



PIPE SUPPORT DETAILS



VERTICAL GAS PIPING SUPPORT DETAIL



GAS PIPING HANGER SUPPORT DETAIL

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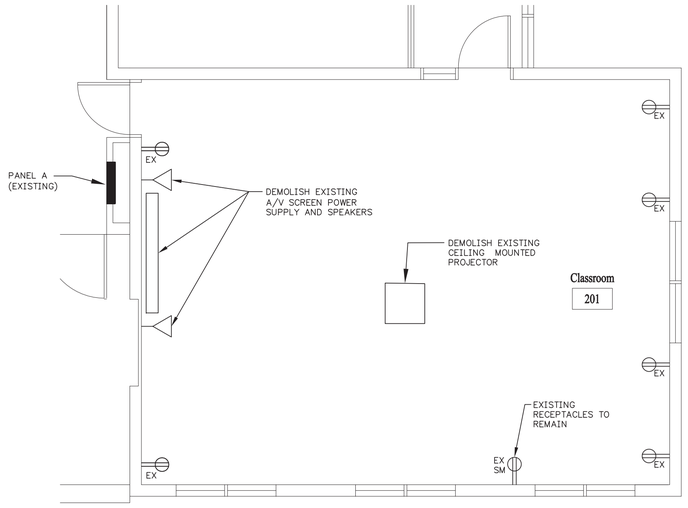
P1.2

ELECTRICAL DEMOLITION NOTES:
1. ELECTRICAL CONTRACTOR SHALL REMOVE ALL EXISTING ELECTRICAL APPURTENANCES THAT ARE TO BE DEMOSHIED CURRENTLY INSTALLED WITHIN THE WORK SCOPE AREA OF THIS PROJECT; WHERE EXISTING WIRING SERVES ELECTRICAL ITEMS THAT ARE LOCATED OUTSIDE THE WORK SCOPE AREA OF THIS PROJECT, CAP EXISTING WIRING TO ALLOW REMAINING ELECTRICAL ITEMS TO REMAIN IN SERVICE. AT LOCATIONS WHERE THE EXISTING ELECTRICAL ITEMS ARE TO BE DEMOLISHED, DISCONNECT EXISTING FIXTURE POWER SUPPLIES AT THE NEXT UPSTREAM J-BOX TO ALLOW THE DELETED ELECTRICAL ITEM J-BOX TO BE DEMOLISHED.
2. OTHER DIVISIONS SHALL REPLACE OR REPAIR ALL EXISTING WALLS, CEILINGS, FLOOR SLABS, ETC. BEING CUT OR DAMAGED UNDER THIS CONTRACT AS REQUIRED TO MATCH EXISTING.
3. WHERE DIRECTED TO DEMOLISH EXISTING EQUIPMENT, THE ELECTRICAL CONTRACTOR SHALL REMOVE ALL ASSOCIATED CABLE, CONDUIT, BOXES, ETC. AS REQUIRED TO ALLOW RE-INSTALLATION OF NEW CONSTRUCTION. COMPLETE REMOVAL OF ALL EXISTING APPURTENANCES ASSOCIATED WITH DEMOLISHED EQUIPMENT WILL MINIMIZE INTERFERENCES DURING THE ELECTRICAL RE-INSTALLATION PROCESS.
4. ALL EXISTING EQUIPMENT, ETC. BEING REMOVED SHALL BE RETURNED TO THE OWNER. IF THE OWNER DOES NOT ACCEPT THE RETURNED EQUIPMENT, THE EQUIPMENT SHALL BE PROPERLY DISPOSED OF BY THE ELECTRICAL CONTRACTOR.
5. REFER TO ARCHITECTURAL PLANS FOR ADDITIONAL DETAILED INFORMATION REGARDING DEMOLITION ASSOCIATED WITH THIS PROJECT.
6. IT SHALL BE THE ELECTRICAL CONTRACTOR'S RESPONSIBILITY TO COORDINATE ALL ELECTRICAL DEMOLITION ASSOCIATED WITH THIS PROJECT.
7. ELECTRICAL CONTRACTOR SHALL REMOVE ALL INDICATED EXISTING ELECTRICAL DEVICES AND EQUIPMENT THAT IS BEING DEMOLISHED. TERMINATE ALL CONDUIT AND WIRING AS FOLLOWS: ELECTRICAL CONTRACTOR SHALL MAINTAIN THE INTEGRITY OF ALL EXISTING FEED-THROUGH CIRCUITRY WHERE EXISTING DEVICES OR EQUIPMENT CONNECTIONS HAVE BEEN REMOVED FROM MIDPOINT OF CIRCUIT. PULL NEW WIRE FOR TOTAL LENGTH OF ANY NEW CIRCUITS.
8. THE ELECTRICAL CONTRACTOR SHALL MAINTAIN THE INTEGRITY OF ALL EXISTING CIRCUITRY REMAINING IN SERVICE DURING CONSTRUCTION.
9. IT SHALL BE THE RESPONSIBILITY OF THE ELECTRICAL CONTRACTOR TO COMPLETELY COORDINATE THE SCOPE OF ELECTRICAL DEMOLITION WORK FOR THIS PROJECT. A LACK OF DETAIL ON THIS DEMOLITION PLAN WILL NOT RELIEVE THE ELECTRICAL CONTRACTOR OF HIS RESPONSIBILITY TO PROVIDE THE REQUIRED LEVEL OF DEMOLITION COORDINATION.

2 E1.0 Electrical Notes



1 E1.0 2nd Floor Electrical Demolition Plan
1/4"=1'-0"

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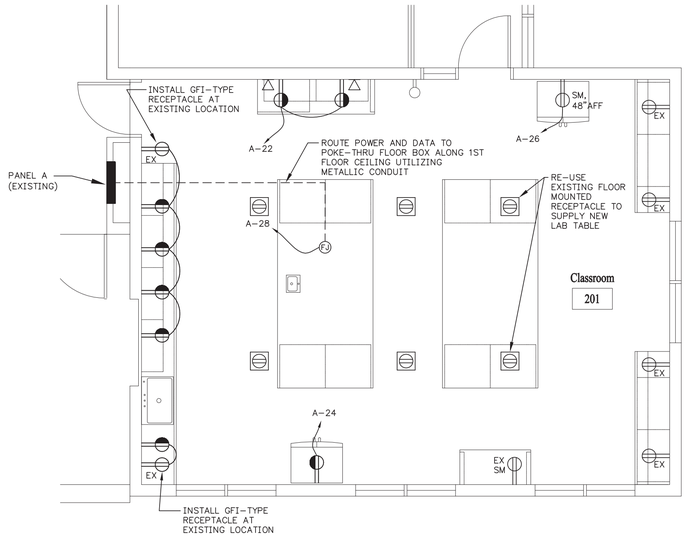

1 E1.0 2nd Floor Electrical Plan

1/4"=1'-0"

PANEL A

208/120 *VOLTS*, 3 *PHASE*, 4 *WIRE*, 125 *AMPS*

☒ *MAIN BREAKER*
☐ *MAIN LUGS ONLY*

LOCATION:
ENCLOSURE SIZE: EXISTING
FEEDER SIZE : EXISTING
NOTE:

SERVES	LOAD	TRIP			TRIP	LOAD	SERVES
EXISTING	———	20	1	2	20	———	EXISTING
EXISTING	———	20	3	4	20	———	EXISTING
EXISTING	———	20	5	6	20	———	EXISTING
EXISTING	———	20	7	8	20	———	EXISTING
EXISTING	———	20	9	10	20	———	EXISTING
EXISTING	———	20	11	12	20	———	EXISTING
EXISTING	———	20	13	14	20	———	EXISTING
EXISTING	———	20	15	16	20	———	EXISTING
EXISTING	———	20	17	18	20	———	EXISTING
EXISTING	———	20	19	20	20	———	EXISTING
EXISTING	———	20	21	22	20	360	CLASSROOM 201
EXISTING	———	20	23	24	20	1200	CLASSROOM 201
EXISTING	———	20	25	26	20	1200	CLASSROOM 201
EXISTING	———	20	27	28	20	1200	JUNCTION BOX
EXISTING	———	20	29	30	–	———	SPACE

2 E1.0 Electrical Panel

DUPLEX 120VAC RECEPTACLE, MOUNTED AT 16" AFF TO CENTER LINE UNLESS OTHERWISE NOTED. 'GFI' INDICATES GROUND FAULT INTERRUPTING, 'SM' INDICATES SURFACE MOUNTED, 'EX' INDICATES EXISTING TO BE RE-USED

SURFACE MOUNTED 20 AMPERE DUPLEX 120VAC RECEPTACLE, MOUNTED AT 46" AFF TO CENTER, GFI TYPE

(FJ) POKE-THRU FLOOR JUNCTION BOX, 4"ø, FIRE-RATED, BRASS FINISH; HUBBELL S1PTBRSJ WITH SISPDUSL SUB-PLATE,

EXISTING FLOOR MOUNTED DUPLEX RECEPTACLE TO REMAIN, PROVIDE NEW SCREW-IN COVERS (COORDINATE REPLACEMENT COVERS IN THE FIELD)

ELECTRICAL PANEL

3 E1.0 Electrical Legend

ELECTRICAL NOTES:
1. ALL WORK SHALL CONFORM TO THE CURRENT EDITION OF THE NATIONAL ELECTRIC CODE AND ALL APPLICABLE STATE AND LOCAL CODES.
2. ALL GROUND FAULT CIRCUIT INTERRUPTING (GFI) RECEPTACLES SHALL BE 20 AMPERE (HUBBELL CATALOG NO. GF5352, OR EQUAL). ALL 120VAC RECEPTACLES SHALL BE 20 AMPERE RATED (HUBBELL CATALOG NO. 5362, OR EQUAL). ALL RECEPTACLES SHALL BE IVORY IN COLOR. ALL RECEPTACLE COVERPLATES SHALL BE SMOOTH NYLON.
3. ALL EXTERIOR RECEPTACLES AND DISCONNECT DEVICES SHALL BE RATED NEMA 3R AS A MINIMUM.
4. RECEPTACLE WIRE SHALL BE #12AWG COPPER WIRE, EXCEPT AS NOTED, TYPE THHN.
5. LUMINAIRE WIRE SHALL BE #12AWG COPPER WIRE, TYPE THHN, UNLESS OTHERWISE NOTED.
6. ALL LUMINAIRES AND RECEPTACLES SHALL BE GROUNDED TO THE GROUND BUS OF THE POWER DISTRIBUTION PANEL FROM WHICH THEY ARE FED. THIS GROUND WIRE SHALL BE #12AWG WITH A GREEN JACKET. ALL GROUND WIRE SHALL BE SIZED IN ACCORDANCE WITH NEC 250-122.
7. UNLESS OTHERWISE NOTED, SWITCH LOCATIONS ARE SHOWN FOR REFERENCE ONLY, REFER TO ARCHITECTURAL PLANS FOR DOOR SWINGS TO ENSURE PROPER SWITCH PLACEMENT. ALL LIGHT SWITCHES SHALL BE IVORY IN COLOR. ALL SWITCH COVERPLATES SHALL BE SMOOTH NYLON.
8. ELECTRICAL CONTRACTOR SHALL SUPPLY ALL CONDUIT, CONDUIT FITTINGS, ETC. CONDUITS SHALL BE SIZED IN ACCORDANCE WITH THE CURRENT NATIONAL ELECTRIC CODE.
9. UNLESS OTHERWISE NOTED, ALL CIRCUITS PROTECTED BY EITHER A 15 OR 20 AMPERE CIRCUIT BREAKER SHALL BE SUPPLIED VIA #12AWG, COPPER CABLE.
10. THE ELECTRICAL DRAWINGS WHICH SHOW THE WORK INCLUDED ARE DIAGRAMMATIC ONLY; THE LOCATIONS, ROUTING, ETC., OF THE VARIOUS FIXTURES, ITEMS OF EQUIPMENT, WIRING, ETC., ARE APPROXIMATE ONLY. THE ENTIRE INSTALLATION IS SUBJECT TO SUCH DEVIATIONS, MODIFICATIONS, REROUTING, ETC., AS MAY BE NECESSARY TO MEET THE REQUIREMENTS OF THE ARCHITECTURAL, STRUCTURAL, AND OTHER DRAWINGS; AND ALSO AS NECESSARY TO OBTAIN A PROPER COORDINATION OF THE WORK WITH THAT OF ALL OTHER TRADES.
11. CHECK MOTOR ROTATION AND CONNECT FOR PROPER ROTATION, CHECK OVERLOAD HEATER ELEMENT FURNISHED WITH STARTERS AGAINST NAMEPLATE RATING OR MOTOR AND CODE, CALL ATTENTION TO IMPROPER SIZES TO MECHANICAL CONTRACTOR AND ARCHITECT. ELECTRICAL CONTRACTOR SHALL VERIFY THAT ALL MOTORS ARE EQUIPPED WITH VENDOR SUPPLIED OVERLOAD DEVICES. CONNECT ALL MOTORS WITH SHORT LENGTH OF FLEXIBLE CONDUIT UTILIZING THE PROPER TYPE CONNECTOR FOR USE WITH THE TYPE CONDUIT INSTALLED. CONNECT ALL MOTORS AND CONTROLS COMPLETELY, NEATLY, ORDERLY, AND PROPERLY TAGGED TO PROPER OPERATION OF SYSTEM INVOLVED.
12. FURNISH AND INSTALL ALL CONDUIT AND WIRING NECESSARY FOR THE POWER SUPPLY OF PLUMBING AND HEATING, VENTILATING AND AIR CONDITIONING EQUIPMENT. FURNISH AND INSTALL DISCONNECT SWITCHES WITH THE MOTORS WHERE REQUIRED BY THE NATIONAL ELECTRIC CODE. REFER TO THE PLUMBING, HEATING, AND AIR CONDITIONING DRAWINGS AND SPECIFICATIONS.
13. CHECK SERVICE REQUIRED BY EQUIPMENT PRIOR TO MAKING FINAL CONNECTIONS. CALL DIFFERENCES TO ATTENTION OF ARCHITECT. CHECK EQUIPMENT FOR PROPER PROTECTIVE DEVICES AND SAFETY DEVICES TO ALLOW PROPER OPERATION OF EQUIPMENT AND PREVENT BURNOUT. ASSIST OWNER IN INITIAL OPERATION OF EQUIPMENT AN MAKE NECESSARY ADJUSTMENT FOR PROPER OPERATION.
14. GIVE ALL EQUIPMENT FURNISHED IN THE CONTRACT AN OPERATIONAL TEST PRIOR TO FINAL ACCEPTANCE. ASSIST THE OWNER IN THE INITIAL OPERATION WHEN THE OWNER OPERATES THE BUILDING AND EQUIPMENT. INSTRUCT THE OWNER'S PERSONNEL IN THE PROPER OPERATION AND MAINTENANCE OF ALL THE EQUIPMENT FURNISHED UNDER THIS SECTION OF THE SPECIFICATIONS.
15. COORDINATE ELECTRICAL WORK WITH ROOFING WORK IN REGARD TO ANY ELECTRICAL ITEMS WHICH MAY PIERCE OR OTHERWISE AFFECT THE ROOF. HOLD CONSULTATION WELL IN ADVANCE OF THE INSTALLATION OF THE FINAL ROOFING AND ALLOW SUFFICIENT TIME FOR THE ROOFING WORK TO BE PREPARED FOR THE ELECTRICAL WORK. ARRANGE FOR ANY CUTTING OR REPAIRING TO ROOFING WHICH MIGHT ALREADY BE INSTALLED WHEN AN ELECTRICAL INSTALLATION IS MADE. SEE ROOFING SPECIFICATION FOR ROOFING WITH RELATION TO WORK OF OTHER TRADES PIERCING THE ROOF. IF NECESSARY CONSULTATION IS NOT HELD, ANY ROOF REPAIRS NECESSITATED BY THE ELECTRICAL INSTALLATION SHALL COME UNDER THE SCOPE OF THE WORK UNDER THIS SECTION.
16. WHERE CONDUIT PENETRATES FIRE-RATED WALLS, THE SPACE BETWEEN THE PENETRATION ITEM AND THE FIRE BARRIER WALL SHALL BE PROPERLY PROTECTED. THE SPACE ADJOINING THE CONDUIT PENETRATION SHALL BE FILLED WITH MATERIAL CAPABLE OF MAINTAINING THE FIRE RATING OF THE FIRE BARRIER, OR IT SHALL BE PROTECTED BY AN APPROVED DEVICE DESIGNED FOR THIS SPECIFIC PURPOSE. WHERE PENETRATING SLEEVES ARE USED, THE SLEEVES SHALL BE SOLIDLY SET IN THIS FIRE BARRIER WALL, AND THE SPACE BETWEEN THE CONDUIT AND THE SLEEVE SHALL BE FILLED WITH MATERIAL CAPABLE OF MAINTAINING THE FIRE RESISTANCE OF THE FIRE-RATED WALL. ALL FIRE RATED WALL PENETRATIONS SHALL BE INSTALLED IN A MANNER THAT WILL PROVIDE AN UNDERWRITERS LABORATORIES (UL) LISTED PENETRATION ASSEMBLY.
17. UNLESS OTHERWISE NOTED, ALL CABLE SUPPLYING LOADS SHALL BE SIZED TO PROVIDE AMPACITY EQUAL TO, OR GREATER, THAN THE SUPPLY CIRCUIT BREAKER TRIP RATING.
18. FOR 120VAC CIRCUIT LENGTHS LESS THAN 75 FEET IN LENGTH, RECEPTACLE WIRE SHALL BE #12AWG COPPER WIRE, TYPE THHN. FOR 120VAC CIRCUIT LENGTHS GREATER THAN 75 FEET BUT LESS THAN 140 FEET, RECEPTACLE WIRE SHALL BE #10AWG COPPER WIRE, TYPE THHN. FOR 120VAC CIRCUIT LENGTHS GREATER THAN 140 FEET, RECEPTACLE WIRE SHALL BE #8AWG COPPER WIRE, TYPE THHN.
METAL-CLAD (TYPE MC) CABLE MAY BE USED IN CONCEALED LOCATIONS IN LIEU OF CONDUIT & CABLE AND AS ALLOWED BY NEC ARTICLE 330.
19. WHERE NEW WIRING DEVICES ARE TO BE INSTALLED ON EXISTING WALLS (i.e. SURFACE MOUNTED), ALL DEVICES AND CABLE SHALL BE INSTALLED UTILIZING SURFACE-MOUNTED RACEWAY (WIREMOLD V500, OR EQUAL, IVORY COLOR) ROUTED VERTICALLY FROM THE CEILING TO THE INDICATED LOCATIONS.

4 E1.0 Electrical Notes

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