

PLUMBING NOTES

- A. ALL WORK SHALL BE DONE IN ACCORDANCE WITH THE LATEST EDITION OF THE STATE CODE AS WELL AS ALL LOCAL AND OTHER APPLICABLE CODES.
- B. ALL WORK SHALL BE PERFORMED BY EXPERIENCED AND SKILLED CRAFTSMEN.
- C. FIELD VERIFY ALL NEW WATER, WASTE, AND VENT PIPING CONNECTIONS AND PROVIDE NEW CONNECTIONS AS REQUIRED FOR PROPERLY OPERATING SYSTEMS.
- D. FIELD VERIFY LOCATION AND INVERTS OF SITE UTILITIES PRIOR TO INSTALLATION.
- E. ROUTE DOMESTIC WATER, FIRE PROTECTION, SANITARY SEWER, AND STORM SEWER SERVICES TO SITE UTILITIES 5'-0" FROM BUILDING UNLESS NOTED OTHERWISE. REFER TO CIVIL PLANS.
- WASTE AND VENT PIPING BELOW FLOOR AND THROUGH FLOOR SHALL BE 2" MINIMUM.
- PROVIDE CLEANOUT IN ACCESSIBLE LOCATION AT THE BASE OF ALL PLUMBING RISERS.
- H. WATER LINES BELOW GRADE SHALL BE TYPE "K" COPPER (NO JOINTS BELOW GRADE) AND ABOVE GRADE TYPE "L". SUPPORT AS REQUIRED AND SHALL BE HYDROSTATICALLY TESTED FOR TWO HOURS AT 100 PSIG. ALL WATER PIPING AT WATER FIXTURES SHALL BE PROVIDED WITH 18" AIR CHAMBERS OR SHOCK ARRESTORS. STOPS SHALL BE PROVIDED ON HOT AND COLD-WATER LINES. WATER PIPING SHALL BE INSULATED WITH 1" CLOSED CELL RUBBER. THE ENTIRE WATER SYSTEM SHALL BE DISINFECTED PRIOR TO PLACING INTO SERVICE. PEX/PVC MAY NOT BE SUBSTITUTED FOR THE COPPER FOR DOMESTIC WATER PIPING.
- SANITARY SEWER LINES SHALL BE PVC AND SLOPED TOWARD DRAINAGE DIRECTION AT A MINIMUM OF 1/4" PER FOOT FOR 2-1/2" AND SMALLER PIPING. SLOPE SHALL BE 1/8" PER FOOT FOR PIPING SIZES 3" 6".
- J. WHERE APPLICABLE, ANY DEVICE THAT SHALL SERVE A SPECIAL FUNCTION SUCH AS PROCESSING OR ICE STORAGE, AND CONNECTS TO WATER SUPPLY AND DRAIN, SHALL BE PROTECTED AGAINST BACKFLOW WITH APPROVED BACKFLOW PREVENTION DEVICE.
- K. PROVIDE PRESSURE REDUCING VALVE IF STREET PRESSURE EXCEEDS 80 PSIG.
- SHOULD WATER PRESSURE BE TOO LOW TO PROPERLY CYCLE FLUSH VALVE FIXTURES, A BOOSTER PUMP SHALL BE REQUIRED. SUFFICIENT WATER PRESSURE IS ASSUMED FOR PROPER PLUMBING OPERATION.
- M. THE PLUMBING CONTRACTOR SHALL PROVIDE ALL OPENINGS REQUIRED FOR THE PLUMBING WORK AND SHALL INSTALL FIRE RATED SLEEVES WHEREVER PENETRATIONS OF RATED WALLS OR FLOORS ARE MADE. THE PATCHING SHALL BE BY THE PLUMBING CONTRACTOR. THE PLUMBING CONTRACTOR SHALL REVIEW ALL UTILITY SITE PLANS AND ARCHITECTURAL SITE PLANS FOR WORK BY OTHERS.
- N. LOCATION OF UTILITIES (WASTE AND WATER LINES, MANHOLES, ETC...) THAT ARE TO BE CONNECTED TO ARE ASSUMED. IT SHALL BE THE RESPONSIBILITY OF THE PLUMBING CONTRACTOR TO VERIFY THESE LOCATIONS AND MAKE THE FINAL CONNECTION AS REQUIRED.
- O. ALL FLOOR DRAINS AND TRENCH DRAINS, IF APPLICABLE, SHALL BE PROVIDED WITH TRAP PRIMERS.

PLUMBING SHEET INDEX

- P000 PLUMBING TITLE SHEET
- P100 PLUMBING DOMESTIC WATER PLAN P101 PLUMBING SANITARY PLAN
- P200 PLUMBING DETAILS AND SCHEDULES

O STILLT INDEX

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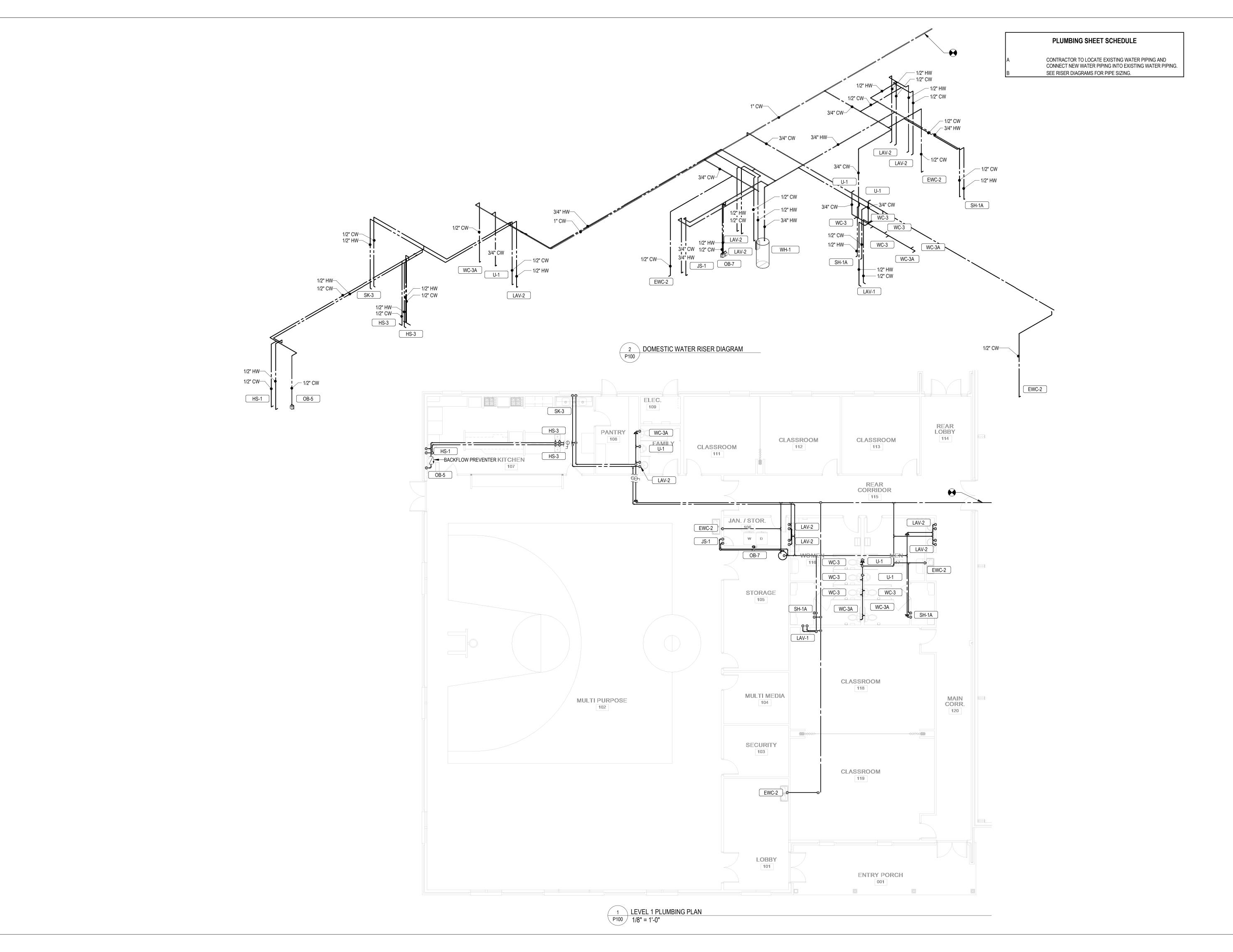
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Drawing No.

PLUMBING TITLE SHEET

P000



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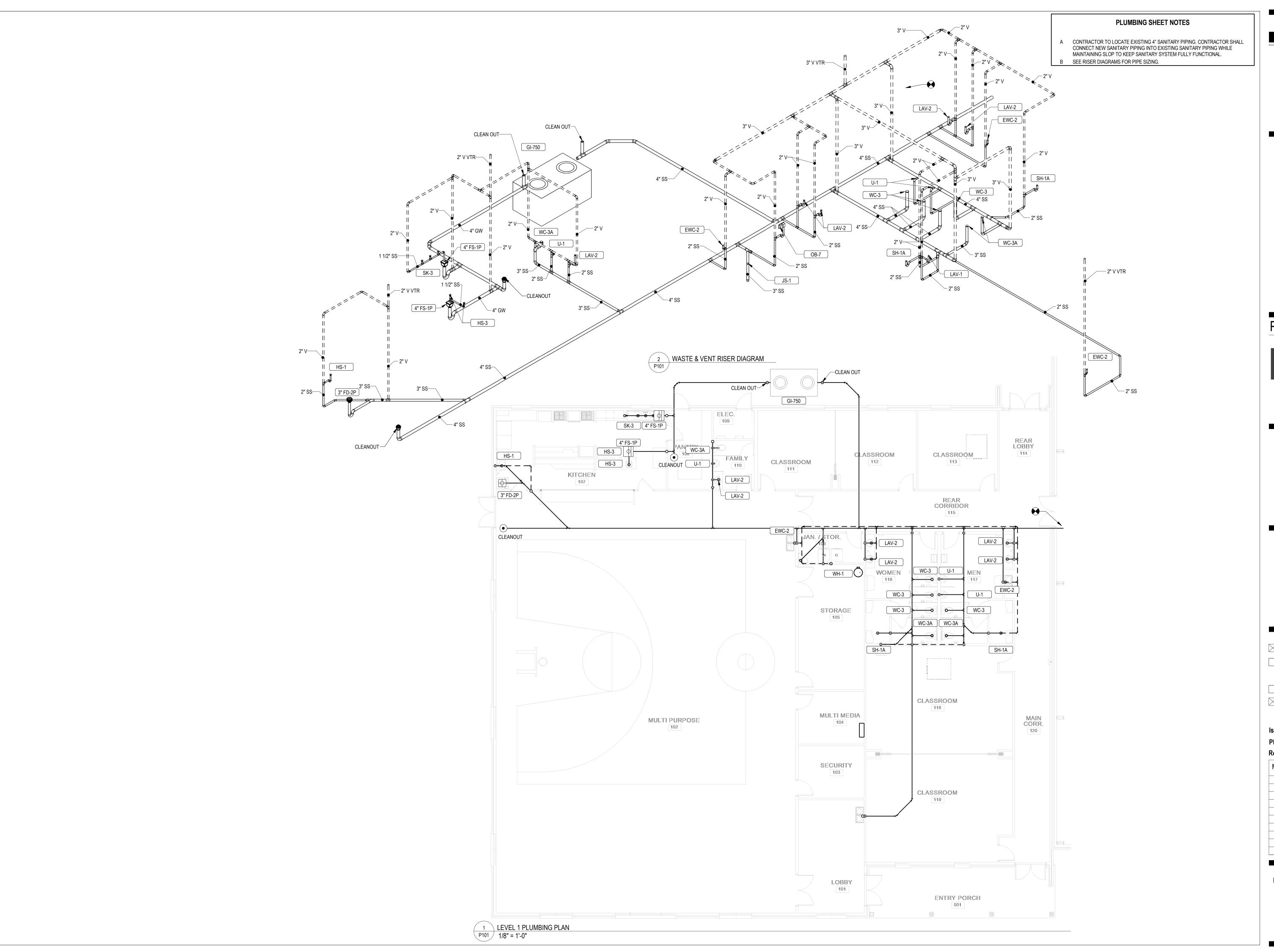
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Drawing No PLUMBING DOMESTIC WATER PLAN

P100



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PLUMBING SANITARY PLAN

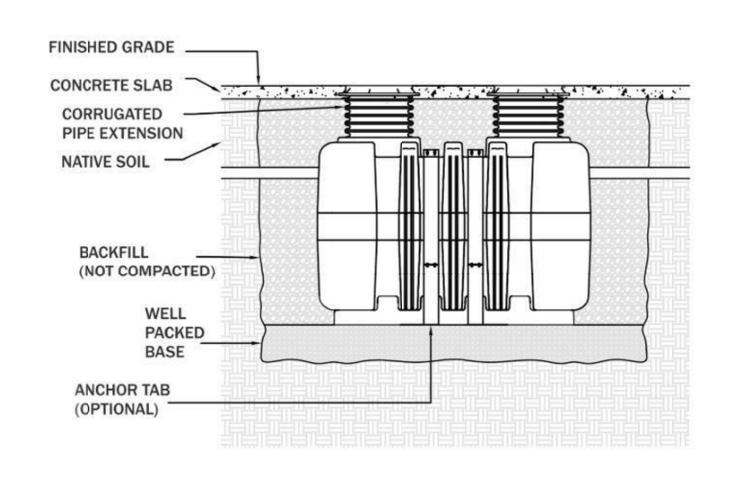
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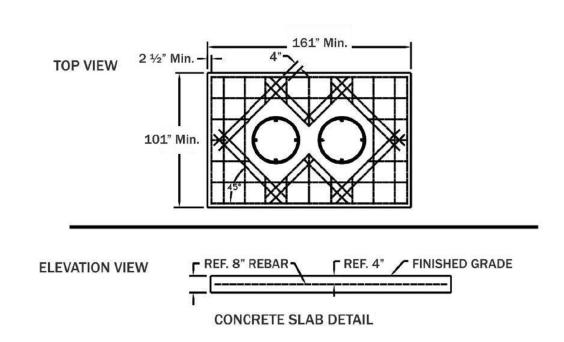
											DOMEST	TIC FIXT	URE SC	HEDULE									
							TRI	M			FLO	N FIXTURE			FLUSH	FIXTURE				COLD	НОТ		
ID	DESCRIPTION	MANUFACTURER	MODEL Q	MATERIAL DESCRIPTION	FINISH	MANUFACTURER	MODEL	TYPE	MOTION SENSOR	WATER FLOW	TIMER DURATION (SEC)	CWT	HWT	MAX. MWT	VOL. PER FLUSH	MIN. VOL. PER FLUSH	WASTE ROUGH-IN PIPE SIZE	WASTE	VENT \	WATER OUGH-IN	WATER ROUGH-IN	SPECIFICATION	REM
NC-2	WATER COOLER - DUAL HEIGHT	ELKAY	EZSTL8WSSK	GALVANIZED STEI	STAINLESS STEEL CABINET				No	0.1 GPM	15	40 °F		40 °F			2"		1 1/2"	1/2"		TWO LEVEL WALL HUNG WATER COOLER WITH BOTTLE FILLING STATION. THE UNIT SHALL BE COMPLETE WITH CABINET, MOUNTING FRAME, SELF CLOSING EASY TOUCH SIDE AND FRONT PUSHBAR CONTROLS, FLEXIGUARD SAFETY BUBBLER, REFRIGERATING SYSTEM, AIR COOLED, 120 VOLT, 60 CYCLE, SINGLE PHASE POWER CONNECTION, FULLY AUTOMATIC, COMPLETE AND READY TO OPERATE.	
IS-1	HAND SINK	ELKAY	EHS-18X	STAINLESS STEE	STAINLESS STEEL	ELKAY	INCLUDED	MANUAL	No	0.5 GPM	0	40 °F	120 °F	105 °F			2"		1 1/2"	1/2"	1/2"	SINGLE COMPARTMENT, WALL HUNG, 18 GAUGE, WITH STRAINER AND FAUCET INCLUDED, P-TRAP, TAILPIECES, SUPPLIES AND STOPS. PROVIDE WITH HAWS MODEL NO. 7620 FAUCET MOUNTED EYEWASH AXION EYEPOD.	
IS-3	HAND SINK	ELKAY	D11515	STAINLESS STEE	STAINLESS STEEL	ELKAY	LKD24898BH C	MANUAL	No	0.5 GPM	0	40 °F	120 °F	105 °F			2"		1 1/2"	1/2"	1/2"	DAYTON STAINLESS STEEL 15" X 15" X 5-3/16", SINGLE BOWL DROP-IN BAR SINK. SINK IS MANUFACTURED FROM 23 GAUGE 300 SERIES STAINLESS STEEL WITH A SATIN FINISH, CENTER DRAIN PLACEMENT, AND BOTTOM ONLY PADS	
IS-1	JANITOR SINK	FIAT	MSB-2424	MOLDED STONE		CHICAGO FAUCET CO	897-CP	MANUAL	No	2.5 GPM	0	40 °F	120 °F	105 °F			3"		2"	3/4"	3/4"	SERVICE BASIN WITH CAP ON TWO SIDES, WITH CHROME PLATED 3" DRAIN AND CAST IRON TRAP. FAUCET SHALL INCLUDE PAIL HOOK AND ATMOSPHERIC VACUUM BREAKER SPOUT. FURNISH 5'-0" LENGTH OF 5-PLY GARDEN HOSE AND FITTINGS.	
AV-1	LAVATORY - WALL HUNG	AMERICAN STANDARD	LUCERNE	WHITE VITREOUS CHINA	WHITE	CHICAGO FAUCET CO	116.976.AB.1	ELECTRONIC	Yes	0.5 GPM	12	40 °F	120 °F	105 °F			2"		1 1/2"	1/2"	1/2"	WALL HUNG LAVATORY WITH BACKSPLASH, FAUCET HOLES ON 4" CENTERS. DECK-MOUNTED FAUCET WITH SENSOR, WATER TURBINE POWER WITH VANDAL RESISTANT SPRAY, EXTERNAL ASSE 1070 COMPLIANT THERMOSTATIC MIXING VALVE, GRID DRAIN, LOOSE KEY ANGLE STOPS AND SUPPLIES. INSULATE WATER AND WASTE WITH INSULATION KIT.	
AV-2	LAVATORY - COUNTER	AMERICAN STANDARD	CADET	WHITE VITREOUS CHINA	WHITE	CHICAGO FAUCET CO	116.976.AB.1	ELECTRONIC	Yes	0.5 GPM	12	40 °F	120 °F	105 °F			2"		1 1/2"	1/2"	1/2"	COUNTERTOP LAVATORY, SELF-RIMMING, FAUCET HOLES ON 4" CENTERS. DECK-MOUNTED FAUCET SENSOR, WATER TURBINE POWER WITH VANDAL RESISTANT SPRAY, EXTERNAL ASSE 1070 COMPLIANT THERMOSTATIC MIXING VALVE, GRID DRAIN, LOOSE KEY ANGLE STOPS AND SUPPLIES. INSULATE WATER AND WASTE WITH INSULATION KIT.	
B-5	ICE MAKER OUTLET BOX	SIOUX CHIEF	696-RG1010MF	ABS PLASTIC	WHITE				No	0.5 GPM	0	40 °F	120 °F	105 °F						1/2"		FULLY RECESSED FIRE RATED ICE MAKER SUPPLY BOX WITH COVER. PROVIDE 1/4 TURN BALL VALVES AND WATER HAMMER ARRESTORS IN BOX.	
B-7	WASHING MACHINE OUTLET BOX	SIOUX CHIEF	696-RG2303WF	ABS PLASTIC	WHITE				No	0.5 GPM	0	40 °F	120 °F	105 °F			2"		2"	1/2"	1/2"	FULLY RECESSED FIRE RATED WASHING MACHINE SUPPLY BOX WITH COVER. PROVIDE 1/4 TURN BALL VALVES AND WATER HAMMER ARRESTORS IN BOX. PROVIDE A 2" TRAPPED STANDPIPE IN CONCEALED WALL SPACE.	
I-1A	SHOWER STALL - ADA	BY OTHERS	BY OTHERS			SYMMONS	C-96-500-B30- V	MANUAL	No	1.0 GPM	300	40 °F	120 °F	105 °F			2"		1 1/2"	1/2"	1/2"	THE INDIVIDUAL SHOWER STALL IS SPECIFIED IN ANOTHER DIVISION. PROVIDE A SHOWER DRAIN AS SPECIFIED IN "SOIL, WASTE AND VENT PIPING SYSTEMS." SHOWER SYSTEM WITH ASSE 1016 COMPLIANT TYPE "T/P" THERMOSTATIC/PRESSURE BALANCING COMBINATION VALVE WITH ADJUSTABLE STOP SCREW TO LIMIT HANDLE TURN. CONCEALED 3-PORT DIVERTER VALVE WITH LEVER HANDLE WITH ARM AND FLANGE, INTEGRAL STOPS, AND IN-LINE VACUUM BREAKER. HAND SHOWER SYSTEM WITH STANDARD HAND SHOWER, 60" FLEXIBLE METAL HOSE, AND 48" SLIDE BAR FOR HAND SHOWER MOUNTING. PROVIDE MANUFACTURER'S FLOW RATE RESTRICTOR ON SHOWERHEAD.	
U-1	URINAL	AMERICAN STANDARD	WASHBROOK	WHITE VITREOUS CHINA	WHITE	SLOAN	8186	BATTERY	Yes			40 °F		40 °F	0.125 gal	0.125 gal	2"		1 1/2"	3/4"		WALL HUNG URINAL WITH WASHOUT ACTION, TOP SPUD, SIZE 18" WITH INTEGRAL EXTENDED SHIELDS SUPPORTED BY THROUGH GOING BOLTS AND C.P. NUTS. SOLAR POWERED SENSOR ACTIVATED FLUSHOMETER.	
/C-3	WATER CLOSET - FLOOR - TANK TYPE	AMERICAN STANDARD	CADET	WHITE VITREOUS CHINA	WHITE	TANK TYPE			No			40 °F		40 °F	1.28 gal	1.28 gal	4"		2"	1/2"		ELONGATED FLOOR MOUNTED TANK TYPE WATER CLOSET, WITH CHURCH 295CT ELONGATED OPEN FRONT SEAT. PROVIDE A 1/4" BRASS BALL VALVE AT WALL CONNECTION.	
C-3A	WATER CLOSET - FLOOR - PRESSURE ASSISTED TANK TYPE - ADA	AMERICAN STANDARD	CADET RIGHT HEIGHT	WHITE VITREOUS CHINA	WHITE	AMERICAN STANDARD	2467.016	MANUAL	No			40 °F		40 °F	1.6 gal	1.6 gal	3"		2"	1/2"		ELONGATED FLOOR MOUNTED PRESSURE ASSISTED TANK TYPE WATER CLOSET, WITH CHURCH 295CT ELONGATED OPEN FRONT SEAT. PROVIDE A 1/4" BRASS BALL VALVE AT WALL CONNECTION. INSTALL AT ADA COMPLIANT HEIGHT.	

QUANTITI	PIPE DIAMETER	GPM/FIXTURE	FIXTURE RATING	GPN
1	1 1/2	13	1.00	13
2	1 1/2	13	0.10	2.6
				0
			9	0
1				0
30.		30		8
				0
8				23.6
֡֡֜֜֜֜֜֜֜֜֜֜֜֜֜֜֜֜֜֜֜֜֜֜֜֜֜֜֜֜֜֜֜֜֜֜֜	1 2			

ELECTRIC WATER HEATER SCHEDULE																							
	LOCATION							ELECTRIC I	IEAT EXCHANGE	₹		I	HEATING ELEI	MENT									
						HEATING	FLO	FLOW STORAGE		AGE	MAX TEMP						UNIT						
ID	NAME	NO.	MANUFACTURER	MODEL NO.	TYPE	CAP	DESIGN	MIN	RECOVERY	VOL	RISE	QTY	POWER	SCR	EF	ASME	WEIGHT	FLA	MCA	MOCP	VOLT	PH	REMARKS
WH-1	Space	235	AO SMITH	DEN-40	STORAGE	0.0 kW			0.0 gal/h	40.0 gal	80 °F	2	0.0 kW	Yes	0.9	Yes	447 lb	8.3 A	10.4 A	15.0 A	208 V	3	PROVIDE ASSE 1017 COMPLIANT MIXING
																							VALVE; POWERS SERIES LFSH OR EQUAL.

GREASE INTERCEPTOR SCHEDULE																		
						COVER			CAPA	CITY	INSTALLATION	PIP	E CONNEC	TIONS		DIMENSION	NS	
												INLE						
ID					MATERIAL			DESIGN				T	OUTL	_ET				
TYPE	MANUFACTURER	MODEL	QTY	TYPE	DESCRIPTION	DESCRIPTION	DIA	FLOW	LIQUID	SOLIDS	ARRANGEMENT	DIA	INVERT	DIA	LENGTH	WIDTH	HEIGHT	REMARKS
GI-75) MIFAB	SUPER-750	1	GRAVITY	HIGH DENSITIY	CAST IRON	2' - 0"	250.0 GPM	750.0 gal	77.0 gal	ABOVE GRADE	4"	-3"	4"	9' - 3"	5' - 4"	4' - 5 5/8"	
					POLYETHYLENE				_									

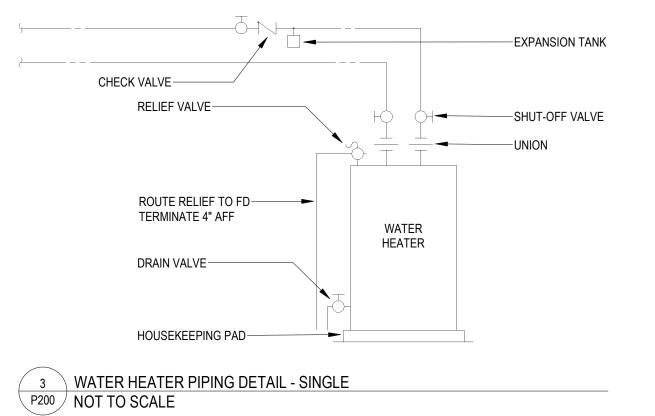


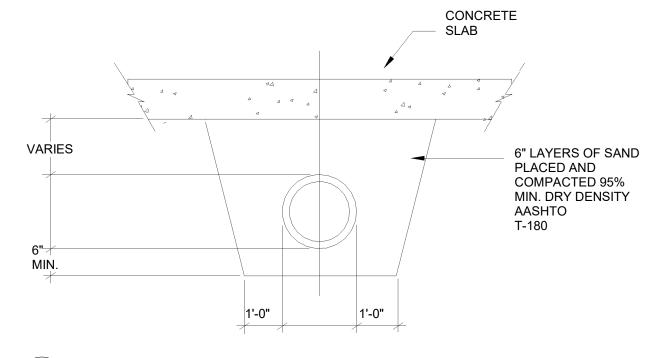


			PIPE SIZE		DFU D	EMAND	CWFU [DEMAND	HWFU [DEMAND	WSFU DEMAN	
ID	FIXTURE DESCRIPTION	QTY	CW	HW	UNIT	TOTAL	UNIT	TOTAL	UNIT	TOTAL	UNIT	TOT
EWC-2	WATER COOLER - DUAL HEIGHT	3	1/2"		0.5	1.5	0.5	1.5	0	0	0.5	1.5
HS-1	HAND SINK	1	1/2"	1/2"	2	2	1.125	1.125	1.125	1.125	1.5	1.5
HS-3	HAND SINK	2	1/2"	1/2"	2	4	1.125	2.25	1.125	2.25	1.5	3
JS-1	JANITOR SINK	1	3/4"	3/4"	3	3	2.25	2.25	2.25	2.25	3	3
LAV-1	LAVATORY - WALL HUNG	1	1/2"	1/2"	1	1	0.75	0.75	0.75	0.75	1	1
LAV-2	LAVATORY - COUNTER	5	1/2"	1/2"	1	5	0.75	3.75	0.75	3.75	1	5
OB-5	ICE MAKER OUTLET BOX	1	1/2"	1/2"	0	0	0.5	0.5	0	0	0.5	0.
OB-7	WASHING MACHINE OUTLET BOX	1	1/2"	1/2"	3	3	3	3	3	3	4	4
SH-1A	SHOWER STALL - ADA	2	1/2"	1/2"	2	4	1.5	3	1.5	3	2	4
SK-3	3-COMPARTMENT SINK	1	1/2"	1/2"	4	4	1.5	1.5	1.5	1.5	2	2
U-1	URINAL	3	3/4"		2	6	4	12	0	0	4	12
WC-3	WATER CLOSET - FLOOR - TANK TYPE	4	1/2"		4	16	2.5	10	0	0	2.5	10
WC-3A	WATER CLOSET - FLOOR - PRESSURE ASSISTED TANK TYPE - ADA	3	1/2"		4	12	2.5	7.5	0	0	2.5	7.
and total: 2	28		-	1	1	61.5		49.125		17.625		55

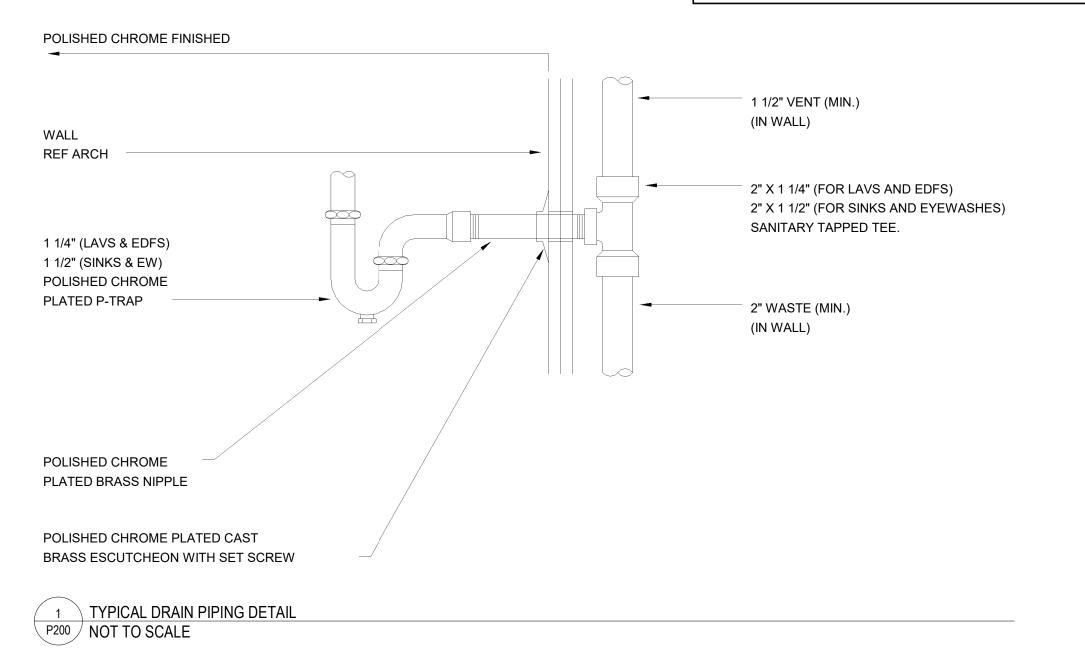
			WASTE	DFU D	EMAND	
ID	FIXTURE DESCRIPTION	QTY	SIZE	UNIT	TOTAL	
EWC-2	WATER COOLER - DUAL HEIGHT	3	1 1/4"	0.5	1.5	
FD-2	FLOOR DRAIN	1	3"	6	6	
FS-1	FLOOR SINK	2	4"	6	12	
HS-1	HAND SINK	1	2"	2	2	
HS-3	HAND SINK	2	2"	2	4	
JS-1	JANITOR SINK	1	3"	3	3	
LAV-1	LAVATORY - WALL HUNG	1	1 1/2"	1	1	
LAV-2	LAVATORY - COUNTER	5	2"	1	5	
OB-7	WASHING MACHINE OUTLET BOX	1	2"	3	3	
SH-1A	SHOWER STALL - ADA	2	2"	2	4	
SK-3	3-COMPARTMENT SINK	1	2"	4	4	
U-1	URINAL	3	2"	2	6	
WC-3	WATER CLOSET - FLOOR - TANK TYPE	4	4"	4	16	
WC-3A	WATER CLOSET - FLOOR - PRESSURE ASSISTED TANK TYPE - ADA	3	3"	4	12	
Frand total: 3	0				79.5	







6" MIN.				,	·
*	1'-0"		1'-0"		
2 TYPICAL PIPE UND	ER SLAB DETA	AIL			
P200 NOT TO SCALE					



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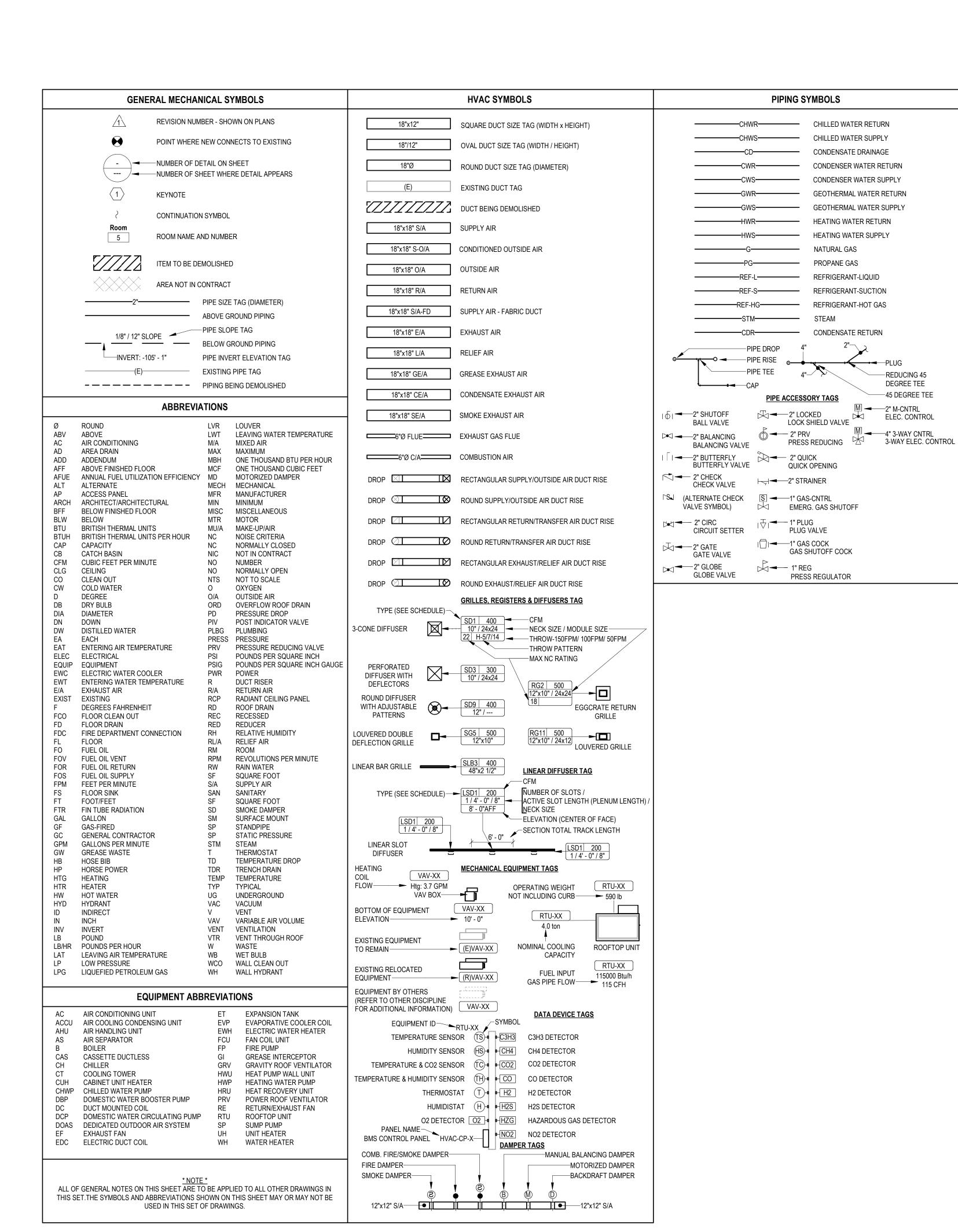
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Drawing No. PLUMBING DETAILS AND SCHEDULES



MECHANICAL NOTES

- MECHANICAL PLANS ARE INTENDED TO PROVIDE INFORMATION FOR INSTALLATION OF A COMPLETE OPERATING MECHANICAL SYSTEM. PROVIDE ALL ESSENTIAL LABOR. MATERIALS AND DEVICES REQUIRED TO PRODUCE A QUALITY END PRODUCT.
- CONTRACTOR SHALL REVIEW AND BECOME FAMILIAR WITH THE WORK OF ALL TRADES FOR PURPOSES OF COORDINATION AND ROUTING. CONTRACTOR SHALL PROVIDE REQUIRED PLANNING, COORDINATION AND SEQUENCING OF HVAC INSTALLATION WITH BUILDING COMPONENTS AND OTHER TRADES.
- ALL WORK SHALL COMPLY WITH LOCAL, STATE, AND NATIONAL CODES. WORKMANSHIP SHALL MEET OR EXCEED INDUSTRY STANDARDS.
- FABRICATE AND INSTALL DUCT PER SMACNA STANDARDS FOR 2-INCH WC WITH GALVANIZED METAL (26 GUAGE MINIMUM), ALL RADIUS ELBOWS AND TEES SHALL HAVE CENTERLINE RADIUS OF 1.5 X DUCT WIDTH. ALL SQUARE ELBOWS AND TEES SHALL HAVE TURNING VANES. PRIOR TO FABRICATION, MECHANICAL CONTRACTOR SHALL FIELD VERIFY STRUCTURAL OBSTRUCTIONS AND CEILING SPACE LIMITATIONS AND MAKE NECESSARY DUCT MODIFICATIONS INCLUDING CHANGING OF ASPECT RATIOS, ADDING OFFSETS, AND SHIFTING LOCATIONS. PROTECT DUCT BY STORING IN A CLEAN AND DRY ENVIRONMENT PRIOR TO INSTALLATION. COVER ENDS OF EXPOSED WORK AT THE END OF EVERY SHIFT.
- ALL DUCT JOINTS, SEAMS AND BRANCH TAKEOFFS SHALL BE SEALED AIR-TIGHT WITH DUCT SEALANT EQUAL TO HARDCAST IRON-GRIP OR FOIL-GRIP TAPE EQUAL TO HARDCAST
- ROUND RUNOUTS SHALL HAVE SPIN-INS WITH DAMPERS, RECTANGULAR BRANCH DUCTS SHALL HAVE 45 DEGREE TAPS WITH AIR EXTRACTORS AND ALL TEES SHALL HAVE SPLITTER DAMPERS. PROVIDE ANY OTHER DEVICES REQUIRED TO BALANCE AIR SYSTEM.
- FLEX DUCT SHALL HAVE METALIZED VAPOR BARRIER WITH MIN. R-VALUE OF 5.0. BOTH ENDS SHALL BE SECURED WITH NYLON BANDS AND METALIZED DUCT TAPE PER MFG'S RECOMMENDATIONS AND IN ACCORDANCE WITH U.L. 181B.
- RIGID ROUND AND RECTANGULAR DUCT SHALL BE EXTERNALLY INSULATED WITH 2-INCH THICK 3/4 LB. DENSITY FIBERGLASS BLANKET WITH FSK VAPOR BARRIER AND A MIN. R-VALUE OF 6.5. STAPLE AND SEAL ALL JOINTS WITH 4-INCH-WIDE METALIZED DUCT TAPE EQUAL TO SHURFLEX SF-683.
- COORDINATE THE EXACT LOCATION OF ALL CEILING DIFFUSERS, REGISTERS, AND GRILLES WITH NEW AND EXISTING LIGHTING. PROVIDE DIFFUSERS AND REGISTERS WITH 4-WAY BLOW PATTERN UNLESS OTHERWISE NOTED. INSULATE AND SEAL ALL GRILLE AND DIFFUSER NECKS TO MAINTAIN VAPOR BARRIER AND ELIMINATE CONDENSATION.
- CONDENSATE DRAINS SHALL BE SUPPLIED FOR ALL COOLING EQUIPMENT. CONTRACTOR SHALL ENSURE PROPER INSTALLATION AND DRAINAGE AS REQUIRED BY FEDERAL, STATE, AND LOCAL CODES. CONDENSATE TRAPS FOR ALL AC UNITS SHALL BE SIZED AS RECOMMENDED BY UNIT MFG. CONDENSATE PIPING AND TRAPS SHALL BE SCHEDULE 40 PVC ROUTED TO EXTERIOR OR STORM DRAIN. INSULATE INTERIOR PIPING WITH 1/2-INCH-THICK UNICELLULAR INSULATION.
- REFRIGERANT PIPING SHALL BE TYPE ACR COPPER WITH SILVER SOLDERED JOINTS. INSTALI PER EQUIPMENT INSTALLATION INSTRUCTIONS. INSULATION SHALL BE 1-INCH-THICK MINIMUM.
- GAS PIPING SHALL BE A-53 SCHEDULE 40 BLACK STEEL WITH MALLEABLE FITTINGS. PIPING BELOW GRADE SHALL HAVE FRP COATING AND ABOVE GRADE SHALL BE PRIMED AND PAINTED. BOND ALL GAS PIPING ABOVE GRADE AND WITHIN BUILDING. PROVIDE MAGNETIC MARKER TAPE 12-INCHES ABOVE ALL BELOW GRADE PIPING.
- ALL PIPING SHALL BE SUPPORTED AND SECURED WITH SUITABLE HANGERS, STRAPS OR PIPE STANDS. SUPPORT WITH NO DROOPS OR SAGS. ALL HANGERS AND ATTACHMENTS SHALL BE PLATED, GALVANIZED OR PAINTED. PROVIDE ISOLATION ON PIPING OF DISSIMILAR MATERIALS.
- POWER WIRING, DISCONNECTS AND STARTERS NOT FURNISHED WITH HVAC EQUIPMENT AND FINAL CONNECTIONS SHALL BE BY THE E.C.
- CONTROL WIRING, RELAYS AND INTERLOCKING DEVICES SHALL BE PROVIDED BY THE M.C.
- UL LISTED DUCT SMOKE DETECTORS SHALL BE FURNISHED, INSTALLED AND TESTED BY THE M.C. THE E.C. SHALL PROVIDE 120V POWER TO EACH DUCT SMOKE DETECTOR WHERE REQUIRED. THE M.C. SHALL PROVIDE REMOTE ALARM/TEST STATIONS FOR EACH DUCT SMOKE
- TEMPERATURE CONTROLS FOR EACH HEATING-COOLING SYSTEM SHALL CONSIST OF AN ELECTRONIC PROGRAMMABLE HEATING-COOLING THERMOSTAT WITH HEAT-OFF-COOL-AUTO SYSTEM SWITCH AND AUTO-ON FAN SWITCH. MOUNT THERMOSTATS 48-INCHES ABOVE FINISHED FLOOR AND A MINIMUM 8" FROM ANY OTHER SWITCHING DEVICES.
- INSTALL EQUIPMENT TO FACILITATE SERVICING. MAINTENANCE AND REPAIR IN ACCORDANCE WITH MANUFACTURER'S INSTALLATION INSTRUCTIONS, AS WELL AS SPECIFIC INSTRUCTIONS ON PLANS. PROVIDE A 4" HOUSEKEEPING PAD FOR EACH PIECE OF MECHANICAL EQUIPMENT. COORDINATE SIZES WITH MECHANICAL EQUIPMENT SELECTED.
- PROVIDE FLEX CONNECTORS AT ALL DUCT TO EQUIPMENT CONNECTIONS NOT HAVING INTERNALLY ISOLATED FANS.
- CONTRACTOR SHALL BALANCE AIR SYSTEM TO QUANTITIES INDICATED ON PLANS AND

PROVIDE TYPE WRITTEN REPORT WITH O AND M MANUALS.

- ALL EQUIPMENT AND SYSTEMS SHALL BE WASHED, MECHANICAL AREAS CLEANED AND PAINTED SURFACES TOUCHED UP TO MATCH FACTORY APPLIED FINISHES. ALL DUCT SYSTEMS AND AIR HANDLERS SHALL BE VACUUMED AND WIPED CLEAN ON THE INSIDE PRIOR TO TURNING THE PROJECT OVER TO THE OWNER. SYSTEMS THAT HAVE NOT BEEN ADEQUATELY PROTECTED DURING INSTALLATION WILL REQUIRE CLEANING AGAIN AT THE END OF THE PROJECT.
- CONTRACTOR SHALL INSTALL A NEW SET OF PLEATED FILTERS BEFORE TURNING BUILDING
- CONTRACTOR SHALL PROVIDE BUILDING OWNER WITH A COMPLETE OPERATING AND MAINTENANCE MANUAL INCLUDING EQUIPMENT BASIC DATA, CONTROL INFORMATION, ROUTINE MAINTENANCE ACTIONS AND SERVICE AGENCIES' NAME, PHONE NUMBER, AND ADDRESS.

HVAC SHEET INDEX

- M000 HVAC TITLE SHEET
- M101 HVAC FLOOR PLAN M301 HVAC SCHEDULES
- M302 HVAC SCHEDULES
- M401 HVAC DETAILS

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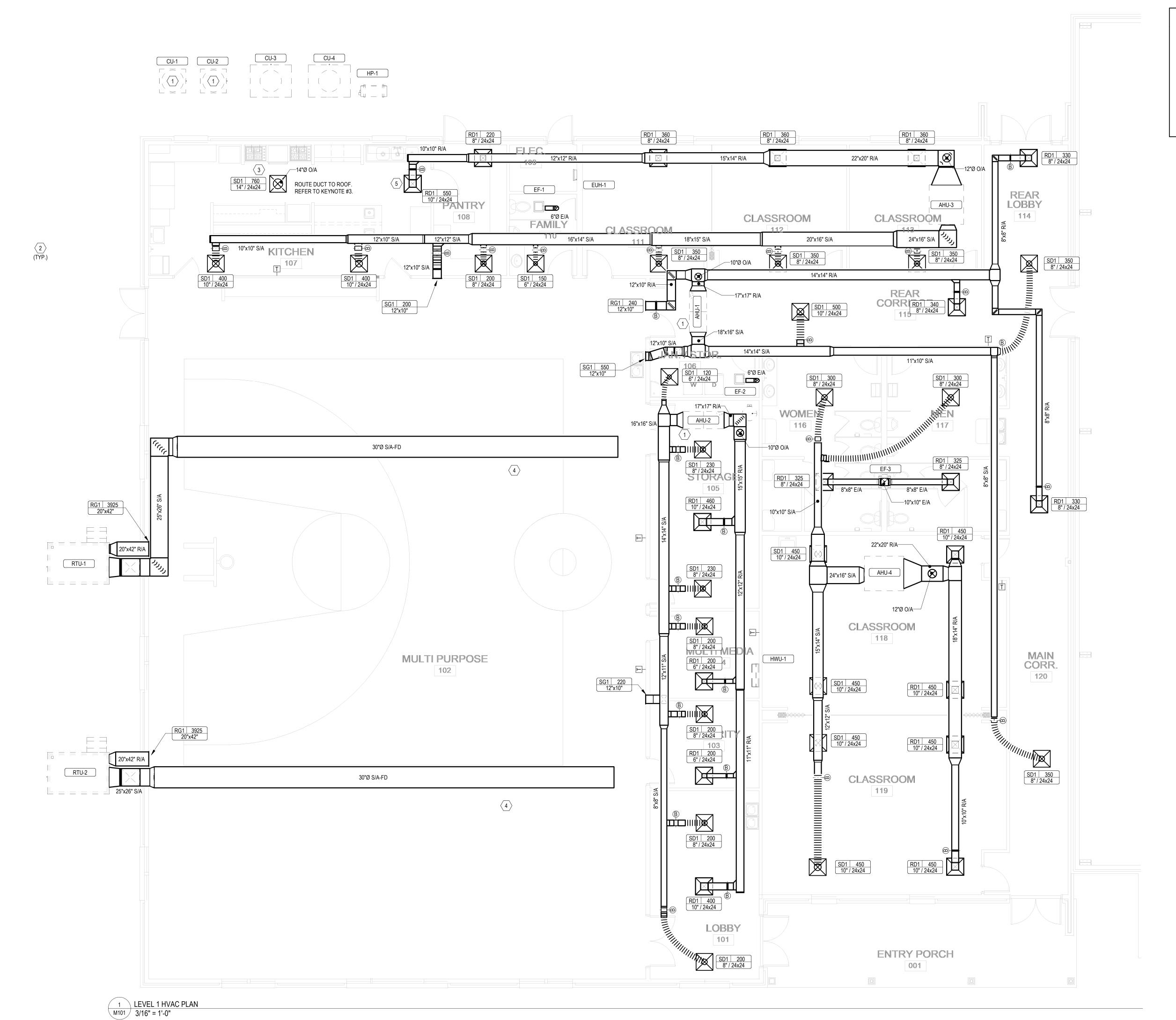
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HVAC TITLE SHEET





KEYNOTES

- 1 EXISITING PIECE OF EQUIPMENT. CONTRACTOR TO LOCATE CURRENT EXISTING LOCATION AND SAVE PIECE OF EQUIPMENT, STORE IN A SAFE AND CLEAN ENVIORNMENT. CONTRACTOR TO THEN LOCATE TO NEW LOCATIONS SHOWN ON PLAN AND CONNECT/ASSEBMLE ACCORDINGLY.
- CONTRACTOR TO COORDINATE WITH OWNER ON FINAL LOCATION PLACEMENTS FOR OUTDOOR UNIT EQUIPMENT.
- CONTRACTOR TO INSTALL MOTORIZED DAMPER ON OUTDOOR AIR INTAKE DUCT.
 COORDINATE WITH ELECTRICAL CONTRACTOR SUCH THAT THE DAMPER OPENS
 WHEN KITCHEN HOODS ARE TURNED ON, AND CLOSES WHEN HOODS ARE TURNED
 OFF. IT IS ASSUMED THAT THE KITCHEN HOODS INCLUDE A BACKDRAFT DAMPER
- 4 ALL FABRIC DUCT SHALL HAVE ORFICE DISPERSION OUTLETS, SET AT ORIENTATIONS OF 4:30 AND 7:30.
- RETURN DUCT SHALL MAINTAIN A DISTANCE OF AT LEST 10' FROM ANY KITCHEN APPLIANCE AND RANGE HOODS.

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R PLAN

HVAC FLOOR PLAN

M101

2018 NC MECHANICAL CODE - VENTILATION CALCULATIONS

					OCCUPANCY I	BASED	AREA		BREATHING ZONE	ZONE AIR		
ROOM NAME	OCCUPANCY CLASS	AREA (Az)	OCCUPANCY DENSITY (PEOPLE / 1000 FT^2)	OCCUPANCY (Pz)	CFM / PERSON (Rp)	CFM (Rp*Pz)	CFM / SF (Ra)	CFM (Ra*Az)	OUTDOOR AIRFLOW (Vb = Rp*Pz + Ra*Az)	DISTRIBUTION	ZONE OUTDOOR AIRFLOW (Voz = Vbz /Ez)	EXHAUST RATI (CFM)
MULTI PURPOSE	SPORTS (PLAY AREA)	4969	0	0	0	0	0.3	1490.7	1490.7	0.8	1864	0
REAR CORRIDOR	PUBLIC SPACES (CORRIDORS)	336	0	0	0	0	0.06	20.16	20.16	0.8	26	0
MAIN CORRIDOR	PUBLIC SPACES (CORRIDORS)	498	0	0	0	0	0.06	29.88	29.88	0.8	38	0
REAR LOBBY	PUBLIC SPACES (CORRIDORS)	158	0	0	0	0	0.06	9.48	9.48	0.8	12	0
TOTAL	TOTALS>										1940	0

OUTDOOR AIR INTAKE FLOW RATE: 1940 0 EXHAUST FLOW RATE PLUS 8% FOR PRESSURIZATION 1940 FINAL VENT. AIR REQUIREMENT (GREATER OF THE ABOVE):

BALANCE RTU-1 TO PROVIDE 870 CFM OF OUTSIDE AIR. BALANCE RTU-2 TO PROVIDE 870 CFM OF OUTSIDE AIR. BALANCE AHU-1 TO PROVIDE 360 CFM OF OUTSIDE AIR.

2018 NC MECHANICAL CODE - VENTILATION CALCULATIONS

ZONE 2

					OCCUPANCY	BASED	AREA	BASED	BREATHING ZONE	ZONE AIR		
ROOM NAME	OCCUPANCY CLASS	AREA (Az)	OCCUPANCY DENSITY (PEOPLE / 1000 FT^2)	OCCUPANCY (Pz)	CFM / PERSON (Rp)	CFM (Rp*Pz)	CFM / SF (Ra)	CFM (Ra*Az)	OUTDOOR AIRFLOW (Vb = Rp*Pz + Ra*Az)	DISTRIBUTION	ZONE OUTDOOR AIRFLOW (Voz = Vbz /Ez)	EXHAUST RATE (CFM)
JANITOR/STORAGE	ASHRAE62.1-2019-JC	115	0	0	10	0	0	0	0	0.8	0	115
STORAGE	RETAIL STORES (STORAGE ROOMS)	208	0	0	0	0	0.06	12.48	12.48	0.8	16	0
MULTIMEDIA	EDUCATION (MEDIA CENTER)	134	25	4	10	40	0.12	16.08	56.08	0.8	71	0
SECURITY	CORRECTIONAL (GUARD STATIONS)	208	15	4	5	20	0.06	12.48	32.48	0.8	41	0
LOBBY	OFFICES (MAIN ENTRY LOBBY)	290	10	3	5	15	0.06	17.4	32.4	0.8	41	0
TOTALS>	TOTALS>										169	115

169 OUTDOOR AIR INTAKE FLOW RATE: 124.2 EXHAUST FLOW RATE PLUS 8% FOR PRESSURIZATION 169 FINAL VENT. AIR REQUIREMENT (GREATER OF THE ABOVE):

BALANCE AHU-2 TO PROVIDE 340 CFM OF OUTSIDE AIR

2018 NC MECHANICAL CODE - VENTILATION...

NE 4 ROOM NAME	OCCUPANCY CLASS	AREA	OCCUPANCY DENSITY (PEOPLE / 1000	OCCUPANCY	OCCUPANCY	BASED	AREA E	BASED	BREATHING ZONE OUTDOOR AIRFLOW (Vb = Rp*Pz	ZONE AIR DISTRIBUTION	ZONE OUTDOOR AIRFLOW	EXHAUST RATI
ROOIVI NAIVIE	OCCUPANCY CLASS	(Az)	FT^2)	(Pz)	CFM / PERSON	CFM	CFM / SF	CFM	+ Ra*Az)	EFFECTIVENESS	(Voz = Vbz /Ez)	(CFM)
WOMEN'S BR	PUBLIC SPACES (TOILET	305	0	0	0	0	0	0	0	0.8	0	200
MEN'S BR	PUBLIC SPACES (TOILET	292	0	0	0	0	0	0	0	0.8	0	200
CLASSROOM	EDUCATION (CLASSROOM	603	35	22	7.5	165	0	0	165	0.8	207	0
CLASSROOM	EDUCATION (CLASSROOM	603	35	22	7.5	165	0	0	165	0.8	207	0
TOTALS>		1803		0							414	400

FINAL VENT. AIR REQUIREMENT (GREATER OF THE ABOVE):	432
EXHAUST FLOW RATE PLUS 8% FOR PRESSURIZATION	432
OUTDOOR AIR INTAKE FLOW RATE:	414

BALANCE RTU-5 TO PROVIDE CFM OF OUTSIDE AIR

2018 NC MECHANICAL CODE - VENTILATION...

DOOM NAME	OCCUPANCY CLASS	AREA	OCCUPANCY DENSITY (PEOPLE / 1000	OCCUPANCY	OCCUPANCY	BASED	AREA E	BASED	BREATHING ZONE OUTDOOR AIRFLOW (Vb = Rp*Pz	ZONE AIR DISTRIBUTION	ZONE OUTDOOR	EXHAUST RATE
ROOM NAME	OCCUPANCY CLASS	(Az)	FT^2)	(Pz)	CFM / PERSON	CFM	CFM / SF	CFM	+ Ra*Az)	EFFECTIVENESS	AIRFLOW (Voz = Vbz /Ez)	(CFM)
CLASSROOM	EDUCATION (CLASSROO	243	35	9	7.5	67.5	0	0	67.5	0.8	85	0
CLASSROOM	EDUCATION (CLASSROO	243	35	9	7.5	67.5	0	0	67.5	0.8	85	0
CLASSROOM	EDUCATION (CLASSROO	238	35	9	7.5	67.5	0	0	67.5	0.8	85	0
FAMILY	EDUCATION (DAY CARE)	77	25	2	10	20	0.18	13.86	33.86	0.8	43	0
PANTRY	ASHRAE 62.1-2019	135	2	1	5	5	0.06	8.1	13.1	0.8	17	0
KITCHEN	FOOD & BEVERAGE	520	0	0	0	0	0	0	0	0.8	0	364
TOTALS>		1456		30							315	364

FINAL VENT. AIR REQUIREMENT (GREATER OF THE ABOVE):	394
EXHAUST FLOW RATE PLUS 8% FOR PRESSURIZATION	393.1
OUTDOOR AIR INTAKE FLOW RATE:	315

BALANCE RTU-6 TO PROVIDE CFM OF OUTSIDE AIR

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HVAC SCHEDULES

									PA	CKAGE	ROOFTO	P UNIT	SCHED	ULE									
						SUPPLY AIR	OUTSIDE AIR		SECONDARY FAN		RESSOR GERANT			UN	IT DIMENSIO	NS	LINUT						
ID	DESCRIPTION	MANUFACTURER	MODEL NO.	QTY	ARRANGEMENT	FLOW	FLOW	EXHAUST AIRFLOW	INCLUDE POWER _ EXHAUST	TYPE	CHARGE	SEER	EER	LENGTH	WIDTH	HEIGHT	WEIGHT	FLA	MCA	МОСР	VOLT	PH	REMARKS
RTU-1	ROOFTOP UNIT	CARRIER	50FCQM12A55-0A0A0	1	HORIZONTAL	4000 CFM	870 CFM	795 CFM	Yes	R-410A	21 lb	14.3	11	7' - 4 1/8"	4' - 11 1/2"	4' - 1 3/8"	955 lb	21.7 A	86.0 A	90.0 A	208 V	3	PROVIDE 10KW OF AUXILLARY HEAT. EQUAL OR EQUIVALENT IS ACCEPTABLE.
RTU-2	ROOFTOP UNIT	CARRIFR	50FCQM12A55-0A0A0	1	HORIZONTAI	4000 CFM	870 CFM	795 CFM	Yes	R-410A	21 lb	14.3	11	7' - 4 1/8"	4' - 11 1/2"	4' - 1 3/8"	955 lb	21.7 A	86.0 A	90.0 A	208 V	3	PROVIDE 10KW OF AUXILLARY HEAT, FQUAL OR FQUIVALENT IS ACCEPTABLE.

2018 APPENDIX B BUILDING CODE SUMMARY FOR ALL COMMERCIAL PROJECTS MECHANICAL DESIGN (PROVIDE ON THE MECHANICL SHEETS IF APPLICABLE)

MECHANICAL SUMMARY

MECHANICAL SYSTEMS, SERVICE SYSTEMS AND EQUIPMENT

winter dry bulb: 22 F summer dry bulb: 96 F

winter dry bulb: 68 F summer dry bulb: 78 F relative humidity: 50%

Building heating load: __107,500 BTU

Building cooling load: 489,000 BTU

Mechanical Spacing Conditioning System

List equipment efficiencies:

description of unit:

heating efficiency: cooling efficiency: size category of unit:

Size category. If oversized, state reason.:

Size category. If oversized, state reason.:

SEE PLANS

Thermal Zone

Interior design conditions

Boiler

							ELEC	TRIC UNIT	HEATER	R SCHI	EDULE										
							ELECTRIC HEATING COIL				ATING ELE	MENT	UI	NIT DIMENSION	NS						
							AIRSIDE														
							DESIGN									AFF	UNIT				
ID	MANUFACTURER	MODEL NO.	QTY	TYPE	ARRANGEMENT	CAP	FLOW	EAT(db)	LAT(db)	QTY	POWER	SCR	LENGTH	WIDTH	HEIGHT	ELEVATION	WEIGHT	FLA	VOLT	PH	REMARKS
EUH-1	BERKO	FRC	1	CABINET	RECESSED MOUNT	5118 Btu/h	100 CFM	55.0 °F	102.4 °F	1	1.5 kW	No	3 7/8"	1' - 2 5/16"	1' - 6 1/4"	1' - 0"	25 lb	12.5 A	120 V	1	

	SPLIT SYSTEM AIR SOURCE HEAT PUMP																	
				NOMINAL	COMPRESSOR	4 1	l	UNIT DIMENSIONS	Γ								INTERLOCK	
ID	MANUFACTURER	MODEL NO.	QTY	COOLING	REFRIGERANT TYPE	EER	LENGTH	WIDTH	HEIGHT	UNIT WEIGHT	FLA	MCA	МОСР	VOLT	PH	FREQ	ID	REMARKS
CU-1	UNKNOWN	UNKNOWN	1	4.00 ton	-	0	2' - 10 1/4"	3' - 1 1/4"	3' - 9 1/8"	0 lb	0.0 A	0.0 A	15.0 A	0 V	0	0 Hz	AHU-1	EXISTING EQUIPMENT ON SITE.
CU-2	UNKNOWN	UNKNOWN	1	4.00 ton	-	0	2' - 10 1/4"	3' - 1 1/4"	3' - 9 1/8"	0 lb	0.0 A	0.0 A	15.0 A	0 V	0	0 Hz	AHU-2	EXISTING EQUIPMENT ON SITE.
CU-3	CARRIER	38AUQM07A0A5	1	6.00 ton	R-410A	11	4' - 11 13/32"	3' - 9 29/32"	3' - 6 3/8"	444 lb	20.0 A	25.0 A	30.0 A	208 V	3	60 Hz	AHU-3	
CU-4	CARRIER	38AUQM07A0A5	1	6.00 ton	R-410A	11	4' - 11 13/32"	3' - 9 29/32"	3' - 6 3/8"	444 lb	20.0 A	25.0 A	30.0 A	208 V	3	60 Hz	AHU-4	
HP-1	CARRIER	38MARBQ09AA3	1	0.75 ton	R-410A	16.2	11 15/16"	2' - 6 1/8"	1' - 9 13/16"	75 lb	0.0 A	15.0 A	15.0 A	208 V	1	60 Hz	HWU-1	

						A	IR HANDLI	NG UNI	Γ SUMMAF	RY SCHEDU	LE							
				VENTILATION	SUPPLY FAN	RETURN/EXHAUST FAN			UNIT DIMENS	IONS							INTERLOCK	
ID	MANUFACTURER	MODEL NO.	QTY	DESIGN AIRFLOW	DESIGN	AIRFLOW DESIGN	NET COOLING CAP	LENGTH	WIDTH	HEIGHT	UNIT WEIGHT	FLA	MCA	МОСР	VOLT	PH	CONDENSING UNIT ID	REMARKS
AHU-1	UNKNOWN	UNKNOWN	1	360 CFM	1600 CFM	1240 CFM	0 Btu/h	0"	0"	0"	0 lb	0.0 A	0.0 A	0.0 A	0 V	0	ONIT ID	EXISTING EQUIPMENT ON SITE.
AHU-2	UNKNOWN	UNKNOWN	1	340 CFM	1600 CFM	1260 CFM	0 Btu/h	0"	0"	0"	0 lb	0.0 A	0.0 A	0.0 A	0 V	0		EXISTING EQUIPMENT ON SITE.
AHU-3	Carrier	40RFQA07A2A5	1	550 CFM	2400 CFM	1850 CFM	72000 Btu/h	4' - 1"	2' - 4 3/16"	4' - 8 1/16"	380 lb	6.4 A	8.0 A	15.0 A	208 V	3	CU-3	PROVIDE 5KW OF AUXILLARY HEAT.
AHU-4	Carrier	40RFQA07A2A5	1	600 CFM	2400 CFM	1800 CFM	72000 Btu/h	4' - 1"	2' - 4 3/16"	4' - 8 1/16"	380 lb	6.4 A	8.0 A	15.0 A	208 V	3	CU-4	PROVIDE 5KW OF AUXILLARY HEAT.

					FAN COIL	UNIT SCHED	ULE							
						COOLING COIL	UNI	T DIMENSI	ONS	UNIT				
ID	DESCRIPTION	MANUFACTURER	MODEL NO.	QTY	ARRANGEMENT	NOMINAL CAP	LENGTH	WIDTH	HEIGHT	WEIGHT	MCA	VOLT	PH	REMARKS
HWU-1	Heat Pump Indoor Unit High Wall Ductless System	Carrier Corporation	40MAQB09B3	1	WALL-MOUNT	0.75 ton	2' - 8 7/8"	7 13/16"	11 1/32"	20 lb	0.2 A	208 V	1	POWERED FROM OUTDOOR HEAT PUMP UNIT.

						EXH	IAUST F	AN SCI	HEDUL	.E							
						FA	N.	UNI	T DIMENSI	ONS							
						DESIGN	DRIVE				UNIT						
ID	DESCRIPTION	MANUFACTURER	MODEL NO.	QTY	TYPE	AIRFLOW	TYPE	LENGTH	WIDTH	HEIGHT	WEIGHT	FLA	MCA	MOCP	VOLT	PH	REMARKS
EF-1	CEILING FAN	GREENHECK	SP-110-VG	1	CEILING	70 CFM	DIRECT	10 1/2"	11 3/8"	7 5/8"	12 lb	0.2 A	0.3 A	15.0 A	120 V	1	EQUAL OR EQUIVALENT IS ACCEPTABLE.
EF-2	CEILING FAN	GREENHECK	SP-110-VG	1	CEILING	70 CFM	DIRECT	10 1/2"	11 3/8"	7 5/8"	12 lb	0.2 A	0.3 A	15.0 A	120 V	1	EQUAL OR EQUIVALENT IS ACCEPTABLE.
EF-3	POWER ROOF VENTILATOR	GREENHECK	G-095	1	DOWNBLAST	650 CFM	DIRECT	1' - 5"	1' - 5"	1' - 2 5/8"	29 lb	1.5 A	1.9 A	15.0 A	208 V	1	EQUAL OR EQUIVALENT IS ACCEPTABLE.

				GRILLES,	REGI	STERS AND DIFFUSERS	SCHEDULE	
						INSTALLATION		
ID	MANUFACTURER	MODEL	MATERIAL	FINISH	QTY	TYPE	SPECIFICATION	NOTES
RD1	Titus	PAR-AA	ALUMINUM	WHITE ENAMEL	18	LAY-IN INSTALLATION	PERFORATED DIFFUSER WITH FACE MOUNTED DEFLECTORS	
RG1	Titus	350FL	ALUMINUM	WHITE ENAMEL	3	SURFACE MOUNT INSTALLATION		
SD1	Titus	TMS-AA	ALUMINUM	WHITE ENAMEL	24	LAY-IN INSTALLATION	HIGH PERFORMANCE 3-CONE DIFFUSER	
SG1	Titus	301FL	ALUMINUM	WHITE ENAMEL	3	SURFACE MOUNT INSTALLATION		

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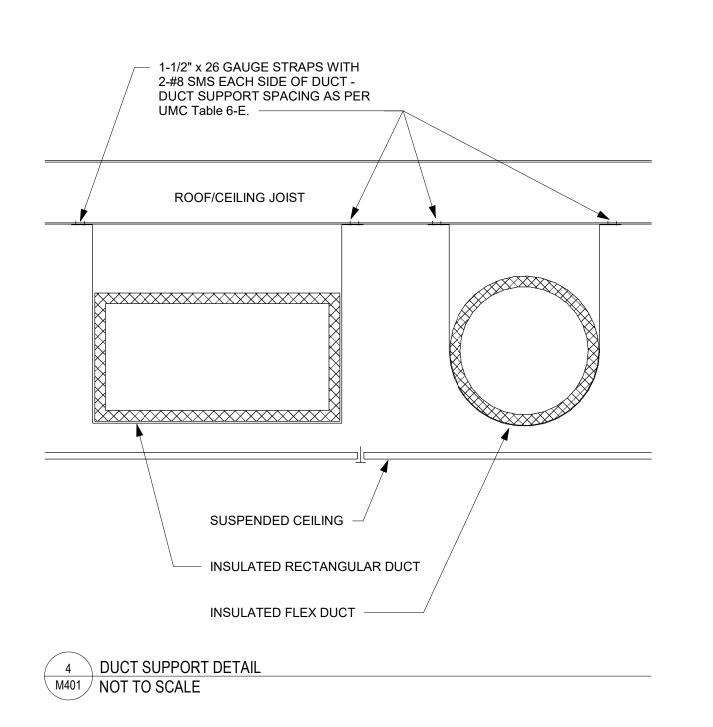
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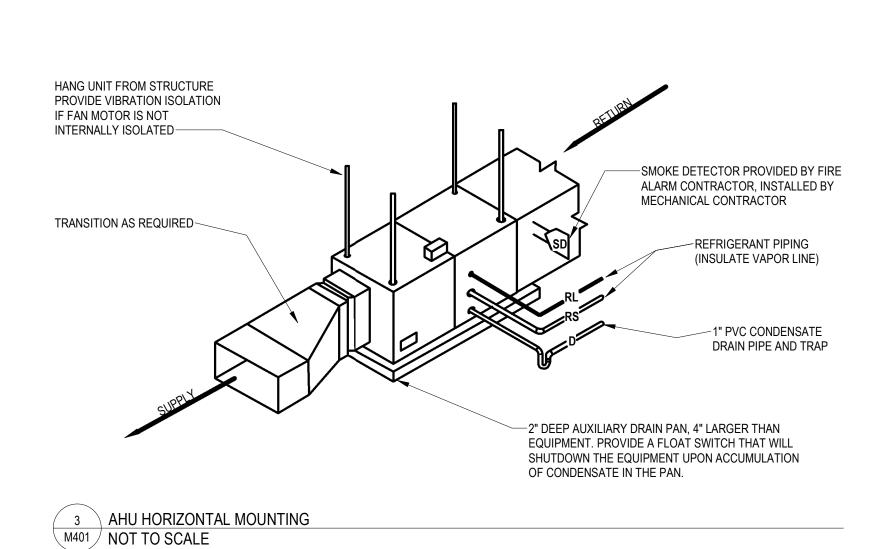
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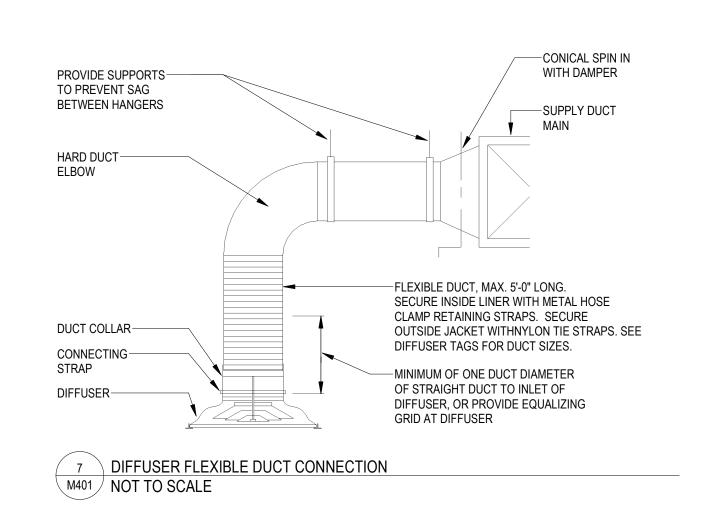
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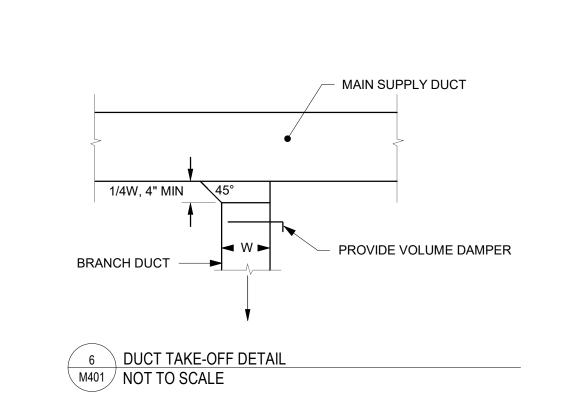
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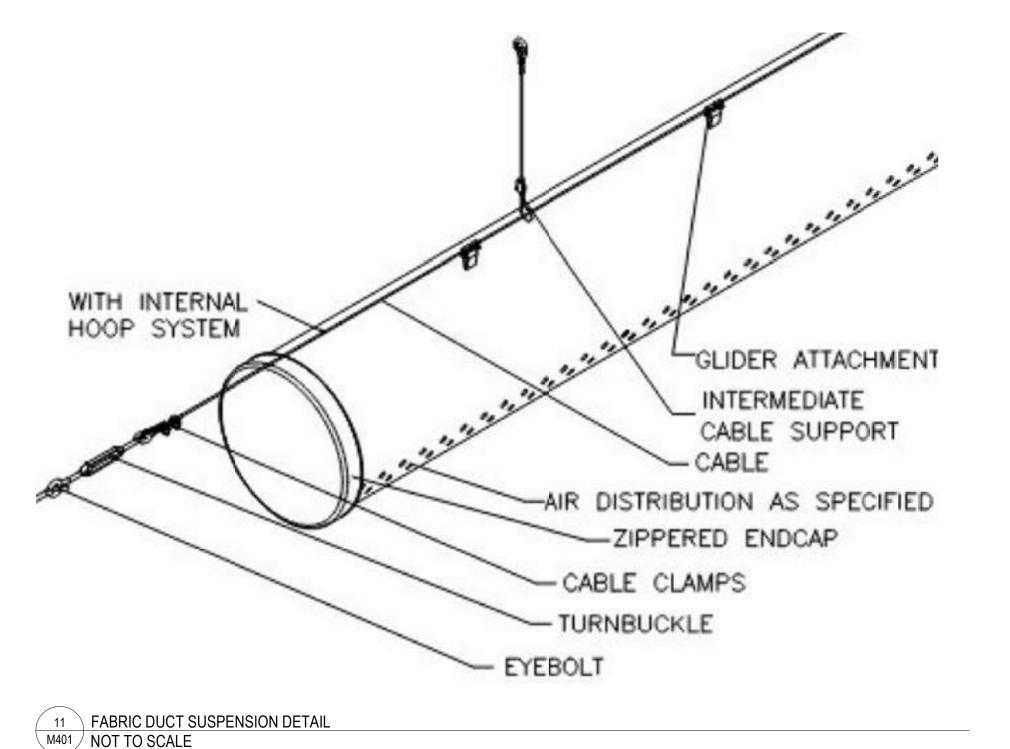
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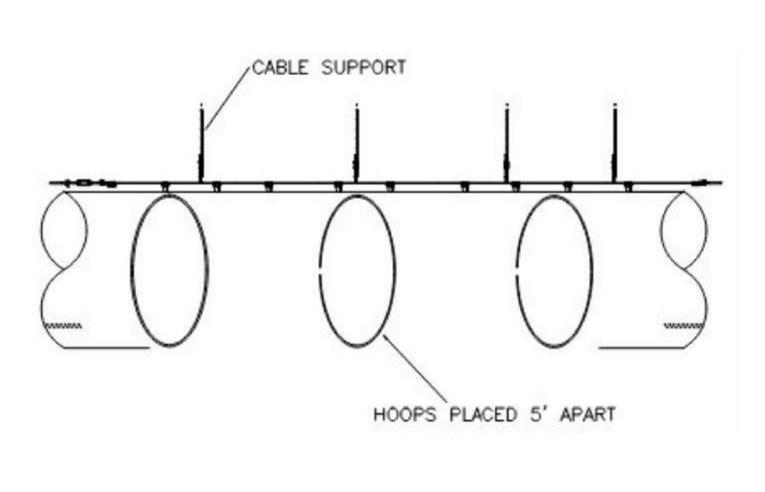




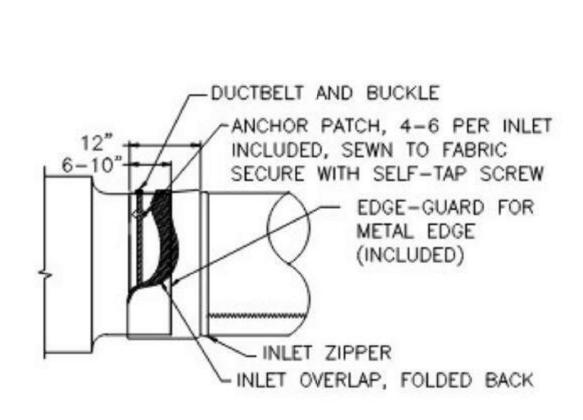




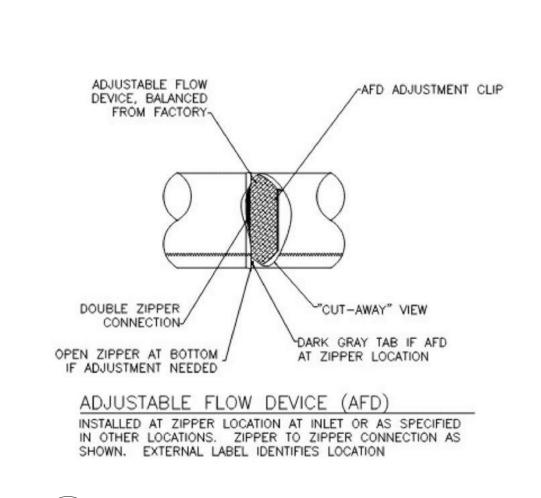


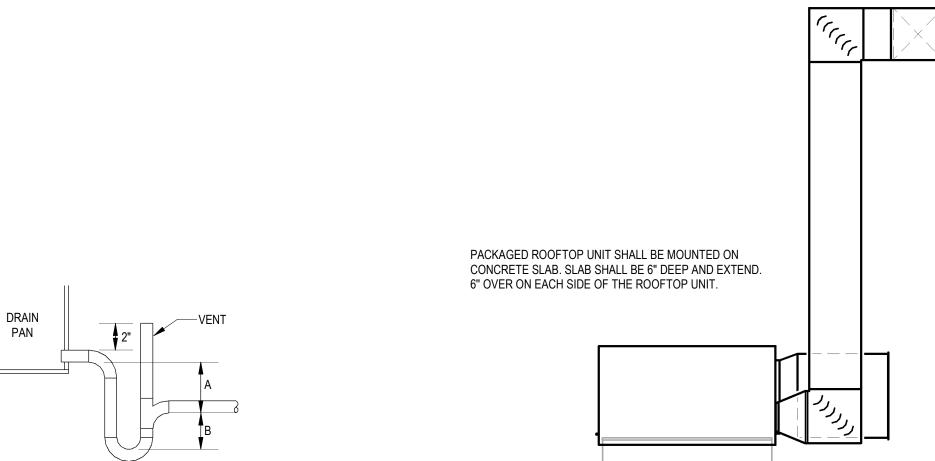






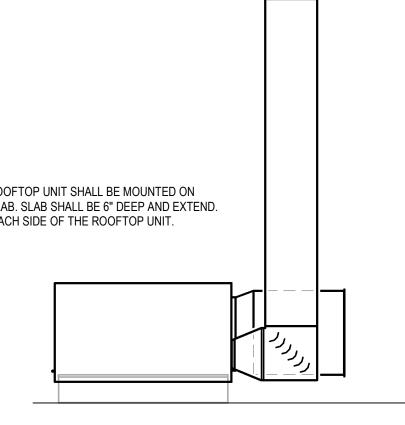




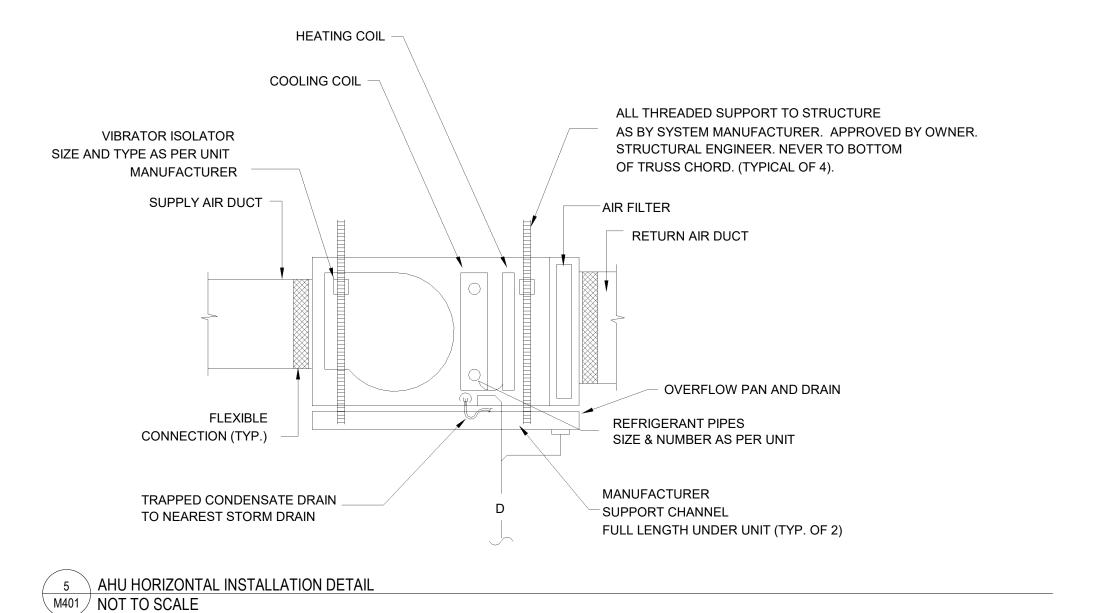


A= SCHEDULED FAN STATIC PLUS ONE INCH B= 1/2 OF SCHEDULED FAN STATIC

2 COOLING COIL CONDENSATE DRAIN DETAIL M401 NO SCALE



YPACKAGED ROOFTOP UNIT DETAIL M401 1/4" = 1'-0"



8 FABRIC DUCT ADJUSTABLE FLOW DETAIL M401 NOT TO SCALE

■ ARCHITECT

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HVAC DETAILS

	ELECTRICAL ABBRE	VIATIO	NS LIST
1P	1 POLE (2P, 3P, 4P, ETC.)	MCB	MAIN CIRCUIT BREAKER
A	AMPERE APPLYE OF THE PROPERTY	MCC	MOTOR CONTROL CENTER
AC ACLG	ABOVE COUNTER ABOVE CEILING	MDC MDP	MAIN DISTRIBUTION CENTER MAIN DISTRIBUTION PANEL
ACLG	AUTOMATIC DOOR OPENER	MFR	MANUFACTURER
AF	AMP FRAME	MFS	MAIN FUSED DISCONNECT SW
AFF	ABOVE FINISHED FLOOR	MH	MANHOLE
AFG	ABOVE FINISHED GRADE	MIC	MICROPHONE
AFI	ARC FAULT CIRCUIT INTERRUPTER	MIN MISC	MINIMUM MISCELLANEOUS
AHU	AIR HANDLING UNIT	MLO	MAIN LUGS ONLY
AL	ALUMINUM	MMS	MANUAL MOTOR STARTER
	ALTERNATE	MOA	MULTIOUTLET ASSEMBLY
	AMPLIEED	MSP MSBD	MOTOR STARTER PANELBOARI MAIN SWITCHBOARD
	AMPLIFIER ANNUNCIATOR	MT	MOUNT
1	APPROXIMATELY	MT.C	EMPTY CONDUIT
	Γ AQUASTAT	MTS	
	ARCHITECT, ARCHITECTURAL	MTR	
	AMP SWITCH	N.C. NEC	NORMALLY CLOSED NATIONAL ELECTRICAL CODE
ATS	AMP TRIP AUTOMATIC TRANSFER SWITCH AUTOMATIC	NEMA	NATIONAL ELECTRICAL
AUTO	AUTOMATIC		MANUFACTURER'S ASSOCIATION
	AUXILIARY	NFDS	NON-FUSED SAFETY DISCONNE
AV AWG	AUDIO VISUAL AMERICAN WIRE GAUGE	NIC	SWITCH NOT IN CONTRACT
BATT	BATTERY	NL	NIGHT LIGHT
BD	BOARD	N.O.	NORMALLY OPEN
BLDG	BUILDING	NPF	NORMAL POWER FACTOR
BMS C	BUILDING MANAGEMENT SYSTEM CONDUIT	NTS OH	NOT TO SCALE OVERHEAD
CAB	CABINET	OL	OVERLOADS
CAT	CATALOG	PA	PUBLIC ADDRESS
CATV	CABLE TELEVISION	PB	PULL BOX OR PUSHBUTTON
CB CCTV	CIRCUIT BREAKER CLOSED CIRCUIT TELEVISION	PE PED	PNEUMATIC ELECTRIC PEDESTAL
CKT	CIRCUIT	PED	POWER FACTOR
CLG	CEILING	PH	
COMB	COMBINATION	PIV	POST INDICATING VALVE
CMPR CONN	COMPRESSOR CONNECTION	PNL PP	PANEL POWER POLE
	CONSTRUCTION	PR	PAIR
CONT	CONTINUATION OR CONTINUOUS		
	CONTRACTOR		PROJECTION
CONV CP	CONVECTOR	PRV DT	POWER ROOF VENTILATOR
CRT	CATHODE-RAY TUBE	PVC	POTENTIAL TRANSFORMER POLYVINYL CHLORIDE (CONDU
CT	CONTRACTOR CONVECTOR CIRCULATING PUMP CATHODE-RAY TUBE CURRENT TRANSFORMER	PWR	POWER
CTR	CENTER	QUAN	QUANTITY
CU DCP	COPPER DOMESTIC WATER CIRCULATING PUMP	RCPT REQD	RECEPTACLE REQUIRED
DEPT	DEPARTMENT	RM	ROOM
DET	DETAIL	RSC RTU	RIGID STEEL CONDUIT
DIA	DIAMETER	RTU SC	ROOF TOP UNIT
DISC	DISCONNECT DISTRIBUTION	SEC	SURFACE CONDUIT SECONDARY
DN	DOWN	SHT	
DPR	DAMPER	SIM	SIMILAR
DS	SAFETY DISCONNECT SWITCH	S/N SPEC	SOLID NEUTRAL
DT DWG	DOUBLE THROW DRAWING	SPEC	
EC	ELECTRICAL CONTRACTOR	SP	
ELEC	ELECTRIC, ELECTRICAL	SR	SURFACE RACEWAY
	ELEVATOR	SS	STAINLESS STEEL
ELU	EMERGENCY LIGHTING UNIT	SSW	SELECTOR SWITCH STOP/START PUSHBUTTONS STATION
EMS	EMERGENCY ENERGY MANAGEMENT SYSTEM ELECTRICAL METALLIC TUBING	STA	STATION
EMT		STD	STANDARD
	ELECTRIC PNEUMATIC	SURF SW	SURFACE MOUNTED
EQUIP EWC	EQUIPMENT ELECTRIC WATER COOLER	SWBD	SWITCH SWITCHBOARD
EXIST	EXISTING		
EXH	EXHAUST	SYM SYS	SYSTEM
EXP FA	EXPLOSION PROOF FIRE ALARM		TELEPHONE TA TELEPHONE/DATA
FABP	FIRE ALARM BOOSTER POWER	TERM	TERMINAL
	SUPPLY PANEL		TWIST LOCK
FACP	FIRE ALARM CONTROL PANEL	TR	TAMPER RESISTANT
FCU FIXT	FAN COIL UNIT FIXTURE	TTC	THERMOSTAT TELEPHONE TERMINAL CABINE
FLR	FLOOR	TV	TELEVISION
FLUOR	FLUORESCENT	TVTC	TELEVISION TERMINAL CABINE
FUDC	FUSE	TYP	TYPICAL
FUDS GA	FUSED SAFETY DISCONNECT SWITCH GAUGE	UC UE	UNDER COUNTER UNDERGROUND ELECTRICAL
GAL	GALLON	UG	UNDERGROUND
GALV	GALVANIZED	UH	UNIT HEATER
GC	GENERAL CONTRACTOR	UT	UNDERGROUND TELEPHONE
GEN GFI	GENERATOR GROUND FAULT CIRCUIT INTERRUPTER	UTIL UV	UTILITY ULTRAVIOLET
GFP	GROUND FAULT PROTECTOR	V	VOLT
GND	GROUND	VA	VOLT-AMPERES
GRS	GALVANIZED RIGID STEEL (CONDUIT)	VDT VEDT	VIDEO DISPLAY TERMINAL
HOA	GYPSUM BOARD HANDS-OFF-AUTOMATIC SWITCH	VERT VFD	VERTICAL VARIABLE FREQUENCY DRIVE
HORIZ	HORIZONTAL	VOL	VOLUME
HP	HORSEPOWER	W	WATT
HPF	HIGH POWER FACTOR	W/	WITH
HT HTG	HEIGHT HEATING	WG WH	WIRE GUARD WATER HEATER
		* * * *	

WEATHERPROOF

WITHOUT

XFMR TRANSFORMER

XFR TRANSFER

∠ ANGLE

▲ DELTA

FEET

INCHES

CENTER LINE

NUMBER

Ø PHASE

P PLATE

HEATER

INCAND INCANDESCENT

J-BOX JUNCTION BOX

KWH KILOWATT HOUR

LIGHT

LOC LOCATE OR LOCATION

LOW VOLTAGE

M/C MOMENTARY CONTACT

MC MECHANICAL CONTRACTOR

MAXIMUM

MAG.S MAGNETIC STARTER

KV KILOVOLT

KW KILOWATT

LTG LIGHTING

LTNG LIGHTNING

INFRARED

KVA KILOVOLT-AMPERE

HIGH VOLTAGE

CONDITIONING

ISOLATED GROUND

INTERLOCK WITH

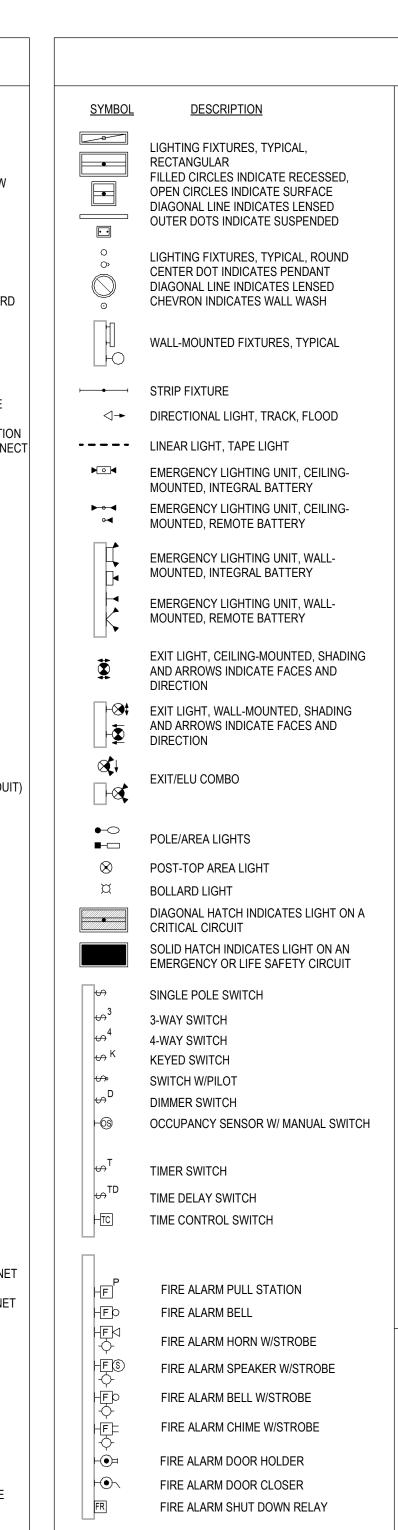
KVAR KILOVOLT-AMPERE REACTIVE

HVAC HEATING, VENTILATING AND AIR

INTERRUPTING CAPACITY

INTERMEDIATE METAL CONDUIT

HTR



SPRINKLER FLOW SWITCH

THERMAL DETECTOR

DUCT SMOKE DETECTOR

CEILING SMOKE DETECTOR

—(S)

SPRINKLER VALVE TAMPER SWITCH

ELECTRICAL SYMBOL LEGEND <u>SYMBOL</u> **DESCRIPTION** SYMBOL DESCRIPTION Ю SINGLE RECEPT TELEPHONE OUTLET DUPLEX RECEPT. \bowtie FLOOR TELEPHONE OUTLET (DESIGNATES SPECIFIC MOUNTING HEIGHT) VOICE/DATA OUTLET DUPLEX RECEPT. GFI DUPLEX RECEPT. (FEED THROUGH) GFI WEATHERPROOF RECEPT. FLOOR DATA OUTLET SPLIT DUPLEX RECEPT. CEILING DATA OUTLET DUPLEX ISOLATED GROUND RECEPT. H(M) MICROPHONE OUTLET DUPLEX RECEPT. ON EMERG. CIRCUIT CATV OUTLET FLOOR DUPLEX RECEPT. TV OUTLET CEILING DUPLEX RECEPT. VOLUME CONTROL FOURPLEX RECEPT. DOOR BELL DOOR BUZZER FOURPLEX RECEPT. ON EMERG. CIRCUIT H DOOR CHIME 240V RECEPTACLE DOOR SIGNAL RECEPT. ON CORD REEL AUTO DOOR PUSH PAD SPECIAL RECEPT. ELECTRIC STRIKE JUNCTION BOX MAGNETIC LOCK FLOOR JUNCTION BOX COMBINATION LOCK CEILING JUNCTION BOX DOOR CONTACT HCR CARD READER SECURITY KEYPAD ⊢MD-**►** MOTION DETECTOR MULTIOUTLET ASSEMBLY NURSE CALL EMERG. STATION NURSE CALL DUTY STATION COMB. MOTOR STARTER (FUSED) NURSE CALL STAFF STATION SAFETY DISC. SW. (NON-FUSED) NURSE CALL PATIENT STATION SAFETY DISC. SW. (FUSED) **PUSH BUTTON ELECTRICAL SHEET INDEX** SHEET DESCRIPTION E000 ELECTRICAL TITLE SHEET ELECTRICAL POWER PLAN E201 ELECTRICAL LIGHTING PLAN POWER POLE (OPEN OFFICE STYLE) E301 ELECTRICAL SCHEDULES SURGERY SERVICE COLUMN E401 | ELECTRICAL DETAILS E501 ELECTRICAL SYSTEMS PLAN STATIC GROUND RECEPTACLE E601 FIRE ALARM PLAN E602 FIRE ALARM DETAILS UTILITY SERVICE POWER POLE

/ MOTOR

EXISTING TO REMAIN

(**a**)/XX-1

XX-1

TRANSFORMER

RELOCATED

(•) XX-1

XX-1

BUS DUCT W/ PLUG IN DISCONNECT

CABLE TAP BOX

DEMOLISHED

(•)/XX-1

LIGHTING FIXTURE TAG DESCRIPTORS S3 1d TOP VALUE: FIXTURE TYPE ID. -# OF VOICE AND # OF DATA OUTLETS. FOR EXAMPLE 1V2D = 1 VOICE, 2 DATA NURSE CALL CODE BLUE STATION EQUIPMENT SCHEDULE FOR THE MOTOR DESCRIPTION AND ELECTRICAL NURSE CALL DOME LIGHT (1-COLOR) NURSE CALL DOME LIGHT (2-COLORS)

SHEET COUNT: 8

ELECTRICAL SYMBOL NOTES

BOTTOM VALUE. NUMBER: CIRCUIT NUMBER. REFER TO DRAWINGS FOR BOTTOM VALUE, LOWERCASE LETTER: SWITCH DESIGNATION. ABSENCE OF A SWITCH ID INDICATES FIXTURE IS CONTROLLED BY THE ONLY SWITCH IN THE SPACE. "x" IN PLACE OF THE SWITCH ID INDICATES NIGHT LIGHT, UNSWITCHED. EXIT LIGHTS. STEM INDICATES WALL MOUNTING. NO STEM INDICATES CEILING MOUNTING. SHADED AREA INDICATES ILLUMINATED FACE(S). ARROW INDICATES DIRECTIONAL ARROW ON ILLUMINATED FACE(S). THE CIRCUIT DESIGNATION IS INDICATED BY A NUMBER. EXAMPLE: THE WALL MOUNTED EXIT LIGHT TYPE "E1" WITH SINGLE FACE AND DIRECTIONAL ARROW IS CONNECTED TO CIRCUIT 1. DEVICES. THE CIRCUIT DESIGNATION IS INDICATED BY A NUMBER. THE SWITCH DESIGNATION IS INDICATED BY A LOWER CASE LETTER. EXAMPLE: SPLIT DUPLEX RECEPTACLE IS CONNECTED TO CIRCUIT 1 AND ONE RECEPTACLE OUTLET IS CONTROLLED BY SWITCH "d". THE CONTROL DEVICE DESIGNATION IS INDICATED BY A LOWER CASE LETTER. EXAMPLE: SINGLE POLE SWITCH "d" TO CONTROL LIGHTING FIXTURES INDICATED WALL BOX DIMMER WITH SIZE AS INDICATED AT DEVICE. EXAMPLE: 600 WATT WALL BOX DIMMER TO CONTROL LIGHTING FIXTURES INDICATED BY "e". SEE SPECIFICATIONS FOR WATTAGE IF NOT INDICATED. SPECIAL CONNECTIONS. THE EQUIPMENT IS INDICATED BY A NUMBER IN A CIRCLE. SEE THE MOTOR AND EQUIPMENT SCHEDULE FOR THE LOAD DESCRIPTION AND TYPE OF CONNECTION. THE CIRCUIT DESIGNATION IS INDICATED BY NUMBER(S) ADJACENT TO THE SYMBOL. EXAMPLE: EQUIPMENT NO ELEC-1; 1 PHASE CONNECTION TO CIRCUITS 2, 4. PANELBOARDS. PANELBOARD DOORS MAY BE SHOWN TO INDICATE OPENING SIDE OF RECESSED PANELBOARDS. SEE PANELBOARD IDENTIFICATION FOR

DESIGNATION CODES. → FLOOR CLEARANCE AREA MOTOR CONNECTIONS. THE MOTOR IS INDICATED BY A NUMBER WITHIN OR CHARACTERS ADJACENT TO THE MOTOR SYMBOL. SEE THE MOTOR AND

TRANSFORMERS. THE TRANSFORMER TYPE IS INDICATED BY A NUMBER FOLLOWING THE UPPER CASE LETTER "T". SEE THE TRANSFORMER SCHEDULE OR THE SINGLE LINE DIAGRAM FOR THE TRANSFORMER DESCRIPTION AND REQUIREMENTS. EXAMPLE: TRANSFORMER TYPE "T1".

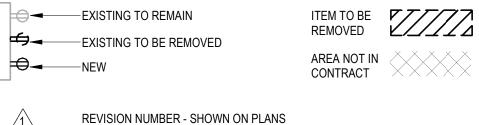
CONDUIT IN CEILING, FLOOR OR WALL AS REQUIRED BY FIELD CONDITIONS CONDUIT IN FLOOR

CONDUIT SHOWN WITHOUT SLASH MARKS SHALL CONTAIN 1 # 12 CONDUCTOR PER PHASE, NEUTRAL, AND GROUND IN 1/2" CONDUIT UNLESS SPECIFIC EQUIPMENT REQUIRES A DIFFERENT SIZE.

CONDUIT SHOWN SHALL CONTAIN 1 # 10 CONDUCTOR PER PHASE IN ELECTRICAL CODE SIZED MINIMUM CONDUIT UNLESS A CONDUCTOR AND CONDUIT SIZE IS SHOWN ADJACENT.

HOME RUN TO BRANCH CIRCUIT PANELBOARD. THE PANELBOARD DESIGNATION IS SHOWN ADJACENT TO THE HOME RUN ARROW AS A NUMERATOR AND THE CIRCUIT DESIGNATION IS SHOWN AS THE DENOMINATOR. CIRCUIT BREAKER SIZES (AMPS/NUMBER OF POLES) ARE SHOWN IN THE PANELBOARD SCHEDULE WITH THE CORRESPONDING PANELBOARD AND CIRCUIT DESIGNATION. EXAMPLE: HOME RUN TO PANELBOARD P4N-102; CIRCUITS 1, 3, 5.

GRAPHICAL REPRESENTATION OF PHASING, TYPICAL FOR ALL SYMBOLS.



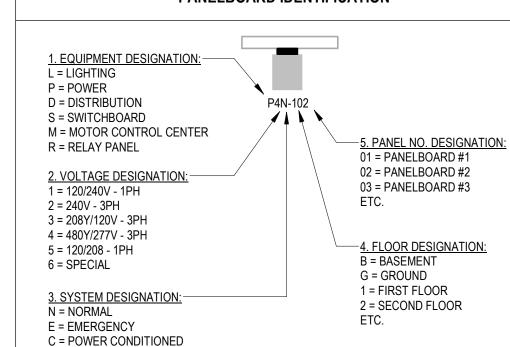
- NUMBER OF DETAIL ON SHEET

√ --- NUMBER OF SHEET WHERE DETAIL APPEARS KEYED NOTE (SEE SCHEDULE)

ROOM NAME AND NUMBER

U = UNINTERRUPTIBLE POWER SOURCE

PANELBOARD IDENTIFICATION



ELECTRICAL NOTES

- ELECTRICAL PLANS ARE INTENDED TO PROVIDE INFORMATION FOR INSTALLATION OF A COMPLETE ELECTRICALSYSTEM. PROVIDE ALL ESSENTIAL LABOR, MATERIALS & DEVICES REQUIRED TO PRODUCE A QUALITY END PRODUCT.
- CONTRACTOR SHALL REVIEW & BECOME FAMILIAR WITH THE WORK OF ALL TRADES FOR PURPOSES OF COORDINATION AND ROUTING. CONTRACTOR SHALL PROVIDE REQUIRED PLANNING, COORDINATION AND SEQUENCING OF ELECTRICAL INSTALLATION WITH BUILDING COMPONENTS AND OTHER TRADES.
- ALL WORK SHALL COMPLY WITH THE NATIONAL ELECTRICAL CODE (NEC). WORKMANSHIP SHALL MEET OR EXCEED INDUSTRY STANDARDS.
- ELECTRICAL CONTRACTOR SHALL PROVIDE ALL DISCONNECTS, STARTERS, DEVICES AND ELECTRICAL COMPONENTS UNLESS SPECIFICALLY NOTED AS PROVIDED BY OTHERS.
- ELECTRICAL CONTRACTOR SHALL PROVIDE ALL LINE AND LOAD SIDE WIRING INCLUDING ALL TERMINATIONS TO EQUIPMENT PROVIDED UNDER OTHER TRADES. POWER WIRING TO CONTROL DEVICES SHALL BE PROVIDED BY E.C.. INTERLOCK WIRING SHALL BE PROVIDED BY THE CONTRACTOR INSTALLING THE CONTROL DEVICE.
- ALL WIRING, PANELBOARDS, DEVICES AND OTHER LIKE MATERIALS SHALL BE UL LISTED & LABELED. ALL MATERIALS SHALL MEET THE NE FOR THE INTENDED USE AND INSTALLED IN ACCORDANCE WITH THE NEC.
 - PROVIDE THHN/THWN COPPER WIRE. PROVIDE A MINIMUM WIRE SIZE OF #12. ALL WIRE #8 AND LARGER SHALL BE STRANDED. CONDUCTORS AND CONDUIT ON PLANS AND SCHEDULES REFLECT AMPACITIES PER NEC 310-16 75C RATING. CONTRACTOR SHALL VERIFY ALL TERMINATIONS, LUGS, ETC. ARE RATED FOR USE PER NEC 110-4C. OTHERWISE, PROVIDE CONDUCTOR AND CONDUIT SIZED PER LOWEST TEMPERATURE RATING OF ANY TERMINATION WITHIN A CIRCUIT. PROVIDE CABLE OR CONDUIT AND WIRE AS REQUIRED TO ACHIEVE CIRCUITING SHOWN. SIZE CONDUCTORS PER NEC AMPACITY AND WIRE FILL CRITERIA. PROVIDE DEDICATED NEUTRAL AND GROUND CONDUCTORS FOR CIRCUITING, UNLESS NOTED OTHERWISE. INCREASE BRANCH CIRCUIT AND/OR FEEDER CONDUCTORS INCLUDING EQUIPMENT GROUNDING CONDUCTORS PROPORTIONALLY FOR NO MORE THAN 3% VOLTAGE DROP ON BRANCH CIRCUITS AND 2% ON FEEDERS PER ENERGY CODE.
- PROVIDE M.C. CABLE FOR ALL SINGLE PHASE BRANCH CIRCUITS 30 AMPS AND SMALLER. PROVIDE CONDUIT FOR ALL OTHER WIRING. EMT OR RIGID SHALL BE USED WHERE EXPOSEDTO PHYSICAL DAMAGE. CONDUIT ABOVE GRADE SHALL BE STEEL. CONDUIT BELOW GRADEMAY BE PVC CHANGING TO STEEL IN THE ELBOW TURNING UP. EMT SHALL NOT BE USED IN DIRECT CONTACT WITH THE EARTH OR WHERE EXPOSED TO SEVERE PHYSICAL DAMAGE. FITTINGS ON STEEL CONDUIT SHALL BE COMPRESSION TYPE.
- NONMETALLIC-SHEATHED CABLE MAY BE UTILZED WHERE COMPLIANT WITH LATEST EDITION OF THE NATIONAL ELECTRIC CODE SECTION 334. E.C. SHALL VERIFY WITH LOCAL AHJ'S THAT NONMETALLIC-SHEATHED CABLE SHALL BE ACCEPTABLE FOR USE PRIOR TO CONSTRUCTION.
- CONDUCTORS OPERATING AT 50 VOLTS OR GREATER SHALL BE IN RACEWAY. RACEWAY WITHIN THE STRUCTURE ABOVE THE FLOOR SLAB SHALL BE METAL. RACEWAY BELOW THE FLOOR SLAB AND UNDERGROUND RACEWAY OUTSIDE THE STRUCTURE SHALL BE PVC. LOW VOLTAGE CABLES OR CONDUCTORS OPERATING AT LESS THAN 50 VOLTS SHALL BE IN METAL RACEWAY WHERE INSTALLED WITHIN WALLS OR INACCESSIBLE SPACES. LOW VOLTAGE CABLES MAY BE RUN IN CABLE TRAY WHERE NOTED. LOW VOLTAGE CABLES MAY BE RUN IN CABLE SUPPORT HOOKS ABOVE ACCESSIBLE CEILINGS WHERE NOTED. LOW VOLTAGE CABLE SHALL BE PLENUM RATED IN PLENUM SPACES.
- PROVIDE ONE-INCH EMPTY CONDUITS EXTENDING ABOVE CEILING FOR ALL TELEPHONE AND DATA OUTLETS SHOWN ON PLANS. PROVIDE PROTECTIVE BUSHINGS ON ENDS OF CONDUIT. ALL CABLING IS PROVIDED BY OTHERS.
- PROVIDE 3/4-INCH EMPTY CONDUITS TERMINATING ABOVE THE CEILING FOR ALL HVAC THERMOSTATS. JUNCTION BOXES SHALL MATCH ORIENTATION OF THERMOSTATS PROVIDED BY M.C., MOUNT JUNCTION BOXES 48-INCHES A.F.F. UNLESS NOTED OTHERWISE, PROVIDE PROTECTIVE BUSHINGS ON ENDS OF CONDUIT, ALSO, PROVIDE DOUBLE GANG BOX AT 84" AFI OVER THERMOSTATS OR WHERE SHOWN ON PLANS FOR REMOTE ALARM/TEST STATIONS OF HVAC DUCT SMOKE DETECTORS (NOT REQUIRED IF CENTRAL FIRE ALARM SYSTEM EXISTS).
- PANELBOARDS FOR SERVICE ENTRANCE SHALL BE SERVICE ENTRANCE RATED. PROVIDE NEMA 3R PANELBOARDS WHERE LOCATED OUTSIDE. PROVIDE NEUTRAL AND GROUNDING BARS IN ALL PANELBOARDS UNLESS NOTED OTHERWISE. GROUND ALL SERVICE ENTRANCE PANELS IN ACCORDANCE WITH THE NEC.
- PROVIDE TYPEWRITTEN PANEL SCHEDULES IN EACH PANEL INDICATING THE LOAD DESCRIPTION FOR EACH BREAKER. LABEL PANELS ON PANEL FACE WITH PHENOLIC LABELS INDICATING PANEL NUMBER OR LETTER DESIGNATION, VOLTAGE AND PHASE.
- PROVIDE FUSED AND NON-FUSED DISCONNECT SWITCHES AS INDICATED ON PLANS. DISCONNECTS LOCATED OUTSIDE SHALL BE NEMA-3R. PROVIDE REJECTION CLIPS IN FUSED
- PROVIDE HORSEPOWER RATED STARTERS AND DISCONNECTS WHEN CONNECTED TO MOTORS. STARTERS SHALL BE PROVIDED WITH OVERLOAD SIZED-TO-MATCH MOTOR
- PROVIDE LIGHTING AS SCHEDULED IN THE FIXTURE SCHEDULE OR OTHERWISE NOTED ON PLANS. LIGHTING INSTALLED IN SUSPENDED CEILINGS SHALL BE SUPPORTED INDEPENDENTLY OF THE CEILING GRID SYSTEM.
- PROVIDE EMERGENCY AND EXIT LIGHTS AS SHOWN ON PLANS. POWER SHALL BE PROVIDED FROM LIGHTING CIRCUITS ON THE UNSWITCHED LEG OF THE CIRCUIT SUCH THAT POWER TO THE EMERGENCY AND EXIT LIGHTS IS NOT DISCONNECTED WHEN NORMAL LIGHTING IS OFF. EXTERIOR EMERGENCY LIGHTS SHALL BE WIRED SUCH THAT PHOTOCELL AND/OR TIME CLOCK OPERATION DOES NOT DISCONNECT POWER TO BATTERIES.
- COORDINATE LOCATIONS OF DEVICES WITH ARCHITECTURAL ELEVATIONS AND DETAILS. ARCHITECTURAL ELEVATIONS AND DETAILS TAKE PRECEDENCE OVER LOCATIONS SHOWN ON ELECTRICAL DRAWINGS.
- RECEPTACLES SHALL BE 20 AMP, 120V UNLESS NOTED OTHERWISE.
- RECEPTACLES ABOVE COUNTERTOPS AND ADJACENT TO SINKS & LAVATORIES SHALL BE
- RECEPTACLES INSTALLED OUTSIDE SHALL BE GROUND FAULT WITH "IN USE" WEATHERPROOF
- WALL SWITCHES SHALL BE SINGLE POLE, 20 AMP, 120/277V.
- PROVIDE STANDARD SIZE WALL PLATES FOR ALL DEVICES AND BLANK WALL PLATES FOR JUNCTION BOXES. WALL PLATES SHALL BE HIGH IMPACT, SMOOTH NYLON, COLOR TOMATCH
- UL LISTED DUCT SMOKE DETECTORS SHALL BE FURNISHED, INSTALLED & TESTED BY THE M.C.. THE E.C. SHALL PROVIDE 120V POWER TO EACH DUCT SMOKE DETECTOR WHERE REQUIRED. THE M.C. SHALL PROVIDE REMOTE ALARM/TEST STATIONS FOR EACH DUCT SMOKE
- IT IS THE RESPONSIBILITY OF THIS CONTRACTOR TO COORDINATE INSTALLATION OF ELECTRICAL SYSTEMS AND THOSE REQUIRING ELECTRICAL CONNECTIONS TO MAINTAIN NEC REQUIRED CLEARANCES, INCLUDED BY NOT LIMITED TO AREAS ABOVE ACCESSIBLE CEILINGS.
- . FIELD COORDINATE FINAL MECHANICAL AND EQUIPMENT LOCATIONS ALONG WITH CONNECTION REQUIREMENTS AND CONTROL WIRING PRIOR TO ROUGH-IN. ADJUST CORRESPONDING CIRCUIT BREAKER RATINGS AND BRANCH CIRCUITING ACCORDINGLY.
- B. THE CONTRACTOR IS RESPONSIBLE FOR MAKING FINAL WIRING TERMINATIONS TO PRE-INSTALLED RECEPTACLES IN OFFICE FURNITURE. CONTRACTOR IS RESPONSIBLE FOR WIRING AND INSTALLING VOICE/DATA DEVICES IN OFFICE FURNITURE. COORDINATE PLACEMENT OF DEVICES WITH FURNITURE LAY-OUT.
- . SECURITY SYSTEM TO BE PROVIDED UNDER SEPARATE CONTRACT. IT IS THE RESPONSIBILITY OF THIS CONTRACTOR TO PROVIDE CONDUIT PROVISIONS, BACK BOXES, ROUGH-INS, SLEEVES AND POWER TO HEAD END EQUIPMENT FOR EXACT REQUIREMENTS PRIOR TO START OF WORK.
- DD. TV OUTLETS, VOLUME CONTROLS, NURSE CALL DOME LIGHTS, NURSE CALL DEVICES, TELEPHONE OUTLETS, DATA OUTLETS, AND FIRE ALARM DEVICES SHALL CONSIST OF A BACK BOX WTIH CONDUIT STUBBED ABOVE THE ACCESSIBLE CEILING, SEE STUB UP DETAIL.VERIFY SIZE OF BACK BOX REQUIRED WITH DEVICE TO BE INSTALLED. LOCATE BACK BOXES 6" FROM ADJACENT POWER RECEPTACLE INTENDED FOR COMPUTER USE

■ ARCHITECT

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WEBB MT PISGAH

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PROJECT CONSULTANTS



120 SOMMERVILLE PARK ROAD RALEIGH, NC 27603 NC FIRM # C-3824



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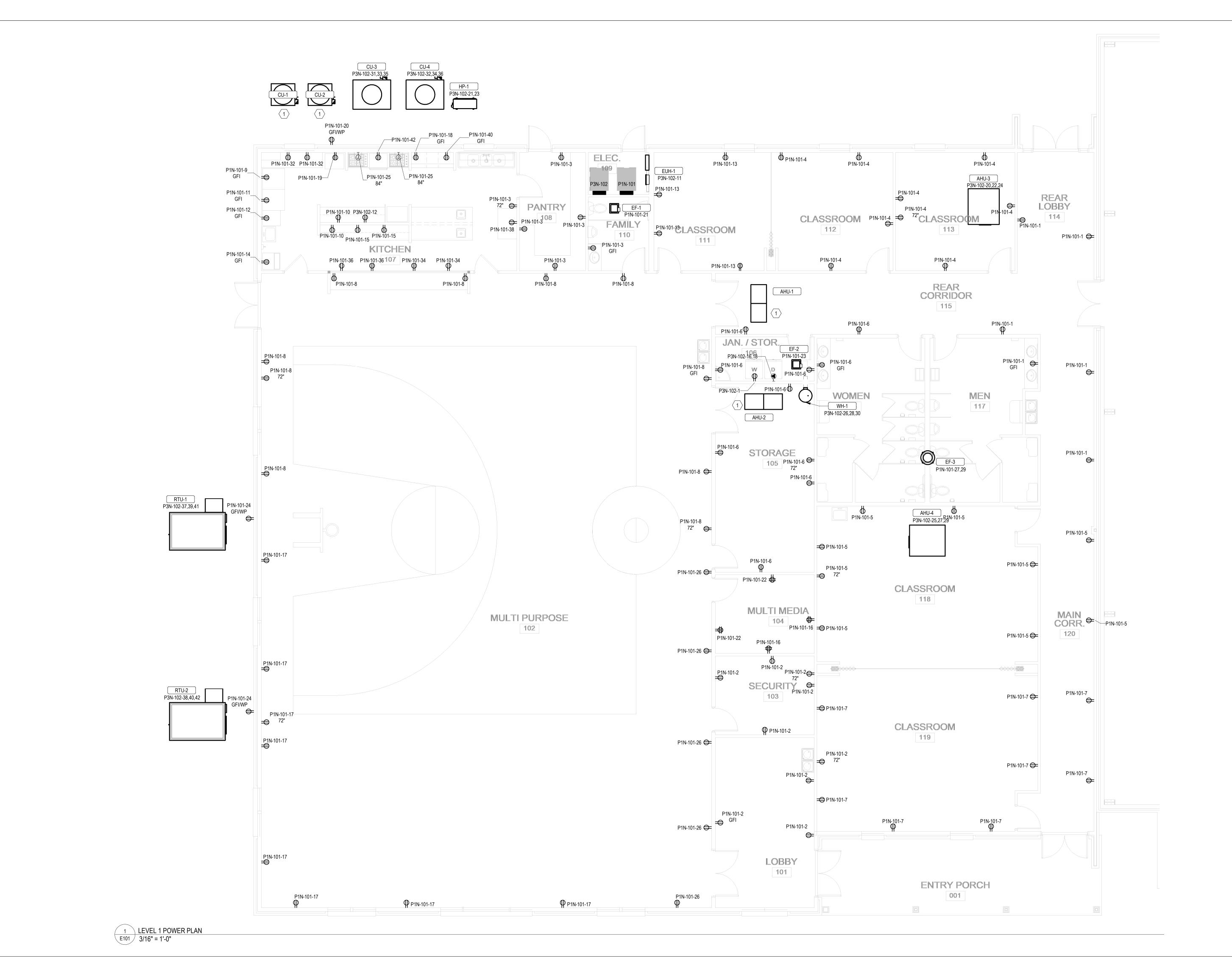
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ELECTRICAL TITLE SHEET



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Drawing No.

ELECTRICAL POWER PLAN

KEYNOTES 1 LIGHTING IN MULTIPURPOSE AREA TO BE IMPACT RATED P3N-102 - 5 EW2 P3N-102 - 5 EW2 P3N-102 - 5 EW2 ▼ → P3N-102 - 5 P3N-102 - 5[™] P3N-102 - 5 P3N-102 - 5 P3N-102 - 5 L1-S8A P3N-102 - 5 P3N-102 - 5 P3N-102 - 5 L1-S7A P3N-102 - 5 L1-S7A P3N-102 - 5 L1-S8A P3N-102 - 5 L1-S6A EW3 L1-S2A L1-S2A L1-S2A L1-S2A ↔ S3B P3N-102 - 5 L1-S4 P3N-102 - 5 P3N-102 - 5 L1-S9 P3N-102 - 5 EW1 P3N-102 - 5 EW1 P3N-102 - 5 EW1 P3N-102 - 5 L1-S3A L1-S5 P3N-102 - 5 L1-S2B P3N-102 - 5 L1-S2B P3N-102 - 5 _P3N-102 - 5 L1-S3B P3N-102 - 5 P3N-102 - 5 P3N-102 - 5 L1-S2B L1-S2B P3N-102 - 5 L1-S6A L1-S7A L1-S7A L1-S9 EW1 • • S2A S2B P3N-102 - 5 S2A S2B D\$S7A EW1**←** S5\$ D\$S8A P3N-102 - 5 EW2 P3N-102 - 5 P3N-102 - 5 L1-S1A L1-S10 L1-S10 L1-S10 L1-S9 P3N-102 - 6 L2-S1A P3N-102 - 6 P3N-102 - 6 P3N-102 - 6 EW3 L2-S1A L2-S1A L2-S1A <u></u> S1C S1B \neg P3N-102 - 5 EW1 S1A — ___ S1D P3N-102 - 5 EW1 p\$p\$p\$p\$ ^D\$ S10 P1N-101 - 41 L3-S20A P1N-101 - 41 P3N-102 - 17 P3N-102 - 17 S13A \$D ⇔ S20A S12A \$_D (C) L3-S20B S11A ↔ S20B P3N-102 - 17 L1-S14A P3N-102 - 6 P3N-102 - 6 EW1 P3N-102 -L1-S12A L1-S13A P3N-102 - 6 L2-S1A P3N-102 - 6 L2-S1A P3N-102 - 6 L2-S1A P3N-102 - 6 L2-S1A P3N-102 - 17 P3N-102 - 17 L1-S12A P3N-102 - 17 L1-S13A L1-S11A P1N-101 - 41 P1N-101 - 41 (C) L3-S20B L3-S20A P3N-102 - 17 P3N-102 - 17 L1-S12A P3N-102 - 17 L1-S11A L1-S13A P3N-102 - 17 L1-S15A P3N-102 - 17 S15A L1-S15A P3N-102 - 17 EW1 P3N-102 - 6 L2-S1B P3N-102 - 6 L2-S1B P3N-102 - 6 L2-S1B L2-S1B P1N-101 - 41 P1N-101 - 41 EW1 (C) L3-S20B L3-S20A P3N-102 - 17 L1-S12A P3N-102 - 17 L1-S13A P3N-102 - 17 P3N-102 - 17 P3N-102 - 17 L1-S11A L1-S15A L1-S15A P3N-102 - 6 P3N-102 - 6 P3N-102 - 17 P3N-102 - 17 L1-S16A L1-S16A P1N-101 - 41 P1N-101 - 41 🗸 (C) L3-S20B L3-S20A P3N-102 - 17 P3N-102 - 17 P3N-102 - 17 P3N-102 - 6 P3N-102 - 6 P3N-102 - 6 P3N-102 - 6 L1-S19B L1-S19B L1-S19B L2-S1B L2-S1B L2-S1B L2-S1B S16A P3N-102 - 17 P3N-102 - 17 P3N-102 - 17 L1-S11A EW1 EW1 P3N-102 - 17 EW1 P1N-101 - 41 P1N-101 - 41 (C) L3-S20B L3-S20A P3N-102 - 17 L1-S17A L1-S19B L1-S19B L1-S19B P3N-102 - 6 P3N-102 - 6 P3N-102 - 6 P3N-102 - 6 L2-S1C L2-S1C L2-S1C L2-S1C P3N-102 - 17 L1-S11A P1N-101 - 41 P1N-101 - 41 L1-S17A (C) L3-S20B L3-S20A P3N-102 - 17 EW1 P3N-102 - 17 P3N-102 - 17 P3N-102 - 6 P3N-102 - 6 EW1 L1-S17A EW1 EW1 P3N-102 - 6 L2-S1C P3N-102 - 6 P3N-102 - 6 L2-S1C L2-S1C L2-S1C P3N-102 - 17 P3N-102 - 17 P3N-102 - 17 P1N-101 - 41 L1-S19B L1-S19B L1-S19B P1N-101 - 41 P3N-102 - 17 (C) L3-S20B L3-S20A L1-S11A P3N-102 - 17 L1-S17A P3N-102 - 17 EW1 P1N-101 - 41 P1N-101 - 41 P3N-102 - 17 (C) L3-S20B P3N-102 - 6 L3-S20A P3N-102 - 6 P3N-102 - 6 L1-S18A P3N-102 - 17 L1-S19B P3N-102 - 17 P3N-102 - 17 P3N-102 - 17 L2-S1D L2-S1D L2-S1D L2-S1D S19B_∽ L1-S19B L1-S19B L1-S11A EW1 👇 S11A ന് L1-S18A P3N-102 - 17 EW3 🔊 P1N-101 - 41 P1N-101 - 41 (L3-S20B) L3-S20A P3N-102 - 17 F L1-S18A P3N-102 - 6 P3N-102 - 6 P3N-102 - 17 P3N-102 - 6 P3N-102 - 6 L2-S1D L2-S1D L2-S1D L2-S1D EW2 EW1 EW1 P3N-102 - 17 P3N-102 - 17 L1-\$18A D \$18A P3N-102 - 17

■ ARCHITECT

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PROJECT CONSULTANTS KAIROS PROJECT

120 SOMMERVILLE PARK ROAD RALEIGH, NC 27603 NC FIRM# C-3824



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Drawing No.
ELECTRICAL LIGHTING PLAN

1 LEVEL 1 LIGHTING PLAN E201 3/16" = 1'-0"

Branch Panel: P1N-101 Location: Space 226 A.I.C. Rating: 10,000 AMPS SYMMETRICAL Volts: 120/208 Supply From: P3N-102 Mains Type: MAIN CB Phases: 1 Mounting: SURFACE Wires: 3 Mains Rating: 225.0 A Enclosure: NEMA 1 MCB Rating: 225.0 A Trip CKT Trip Poles CKT **Circuit Description Circuit Description** 20.0 A 1 1080 VA 1620 VA 1 RCPT 1 20.0 A RCPT 2 1080 VA 1620 VA 1 20.0 A RCPT 3 RCPT 4 20.0 A 1 1620 VA 1800 VA 1 20.0 A RCPT 20.0 A 1 1440 VA 1800 VA 1 20.0 A RCPT 5 RCPT 7 RCPT 1 20.0 A KITCHEN MISC RCPTS 9 REFRIGERATOR (GFI) 10 500 VA 500 VA 1 20.0 A FREEZER (GFI) 12 14 11 REFRIGERATOR (GFI) 20.0 A 1 20.0 A ICE MAKER (GFI) 13 RCPT 20.0 A 1 720 VA 200 VA 15 KITCHEN MISC RCPTS 360 VA 360 VA 1 20.0 A RCPT 16 1 1440 VA 1500 VA 1 20.0 A RCPT 17 RCPT 18 20.0 A 19 FOOD WARMER 20 20.0 A 21 EF-1 22 20.0 A 24 VA 360 VA 1 20.0 A RCPT 23 EF-2,3,4 24 VA 360 VA 1 20.0 A RCPT 20.0 A 25 RANGE HOODS 26 1 20.0 A RCPT 20.0 A 1 472 VA 900 VA 27 29 EF-3 28 156 VA 20.0 A 156 VA 360 VA 1 20.0 A KITCHEN MISC RCPTS 32 34 33 1 20.0 A KITCHEN MISC RCPTS 360 VA 35 360 VA 1 20.0 A KITCHEN MISC RCPTS 36 38 1 20.0 A KITCHEN MISC RCPTS 180 VA 40 1500 VA 1 20.0 A RCPT Space 228 41 LITES Space 239 42 20.0 A 1 20.0 A RCPT Space 228 Total Load: 14072 VA 11800 VA Total Amps: 132.4 A 113.5 A Legend: **Demand Factor Load Classification** Connected Load **Estimated Demand** Panel Totals 360 VA 100.00% 360 VA LITES Total Conn. Load: 25872 VA 600 VA 125.00% 750 VA RCPT Total Est. Demand: 18566 VA 24912 VA 70.07% 17456 VA Total Conn.: 124.4 A Total Est. Demand: 89.3 A AIC IS ASSUMED, EC TO VERIFY BEFORE PURCHASE AND INSTALL.

	Location: Sp Supply From: Mounting: SU Enclosure: NE	JRFACE				Volts: Phases: Wires:					Mains Mains I	Rating: 10,000 AMPS SYMMETRICAL 5 Type: MAIN CB Rating: 400.0 A Rating: 400.0 A	
lotes:													
СКТ	Circuit Description	Trip	Poles		A		3		2	Poles	Trip	Circuit Description	СКТ
1	WASHER	20.0 A	1		14072 VA								2
3		20.071	•	.55 7/1	1.372 77		11800 VA			2	20.0 A	P1N-101	4
5	LITES	20.0 A	1				1.300 171	1103 VA	1156 VA	1	20.0 A	LITES	6
7													8
9													10
11	C Space 226	20.0 A	1					1500 VA	1500 VA	1	20.0 A	MICROWAVE	12
13													14
15							900 VA			2	20.0 A	DRYER	16
17	LITES	20.0 A	1					1585 VA	900 VA		20.0 A	DICTER	18
19					555 VA								20
21	HP-1	20.0 A	2			1950 VA	555 VA			3	20.0 A	AHU-3	22
23			_					1950 VA	555 VA				24
25	·			555 VA	1000 VA	555.44	4000344						26
27	AHU-4	20.0 A	3			555 VA	1000 VA	555 \ /A	4000 \ / 4	3	20.0 A	WH-1	28
29				2402.1/4	2402.1/4			555 VA	1000 VA				30
31	CU-3	30.0 A	3	2402 VA	2402 VA	2402 VA	2402 VA			3	60.0 A	CU-4	32 34
35		30.0 A	3			2402 VA	2402 VA	2402 VA	2402 VA	3	00.0 A	CO-4	36
37				10315 \/Δ	10315 VA			2402 VA	2402 VA				38
39	RTU-1	125.0 A	3	10010 VA	10010 VA	10315 \/Δ	10315 VA			3	125.0 A	RTIL2	40
41	-	120.0 A				10010 VA	10010 VA		10315 VA		120.0 A	1110-2	42
		Tota	l Load:	4179	6 VA	4219	∟ 4 VA	3723					72
			l Amps:		.1 A		.5 A		.3 A	l			
-egenc	l:												
	lassification			nected Loa	d E	Demand Fa		Estimated				Panel Totals	
IVAC				3891 VA		100.00%		83891				-10 Load 10107711	
OWER	≺			1800 VA		100.00%		1800				al Conn. Load: 121227 VA	
ITES IEAT				4444 VA 4500 VA		125.00% 100.00%		5555 4500			rota	I Est. Demand: 114042 VA Total Conn.: 336.5 A	
RCPT				26592 VA		68.80%)	18296			Tota	I Est. Demand: 316.5 A	
(OI I				.0032 VA		00.0070		10290	· v 🔼		TOLA	i Lat. Delliana. 310.37	

						LIGH	HTING I	FIXT	URE SCHED	JLE						
	CONSTRUCTION			LIGHT SOURCE			ELECTRICAL				PRODUCT					
TYPE	DESCRIPTION	LENS/LOUVER	MOUNTING	LAMP	LUMENS DOWN	LUMENS UP	ССТ	CRI	PROJECTED LIFE	BALLAST/DRIVER	VOLT	WATTS	EMERGENCY COMPONENT	MFR	Model	NOTE
EW1	ELU INDOOR, TWO HEAD		SURFACE WALL	LED	1100 lm	0 lm	6500 K	80	-	-	120 V	3 W	BATTERY	LITHONIA	ELM6L UVOLT LTP	EC TO INSTALL EQUAL OR EQUIVALENT.
EW2	ELU SINGLE REMOTE HEAD		SURFACE WALL	LED	220 lm	0 lm	6500 K	80	-	-	120 V	11 W	REMOTE BATTERY	LITHONIA	ELMRE LP220L SGL	EC TO INSTALL EQUAL OR EQUIVALENT.
EW3	EXIT SIGN, EDGE-LIT, 1-SIDED		CEILING	LED	0 lm	0 lm	0 K	0			120 V	5 W	BATTERY	LITHONIA	EDGR 1 R EL	EC TO INSTALL EQUAL OR EQUIVALENT.
L1	2X4 RECESSED	CURVED RIBBED	LAY-IN	LED	4000 lm	0 lm	3500 K	82	60,000 HOURS	LED DRIVER, 0-10V DIMMING, 1%	120 V	32 W		LITHONIA	2BLT4 40L ADP EZ1 LP835	EC TO INSTALL EQUAL OR EQUIVALENT.
L2	2X4 SUSPENDED	CURVED RIBBED	CEILING SUSPENDED	LED	4000 lm	0 lm	3500 K	82	60,000 HOURS	LED DRIVER, 0-10V DIMMING, 1%	120 V	32 W		LITHONIA	2BLT4 40L ADP EZ1 LP835	EC TO INSTALL EQUAL OR EQUIVALENT.
L3	14" ROUND RECESSED	FROSTED ACRYLIC	RECESSED	LED	2040 lm	0 lm	3500 K	80	30,000 HOURS	LED DRIVER	120 V	30 W		LITHONIA	FMHLDL 14 208 35K	EC TO INSTALL EQUAL OR EQUIVALENT.

■ ARCHITECT

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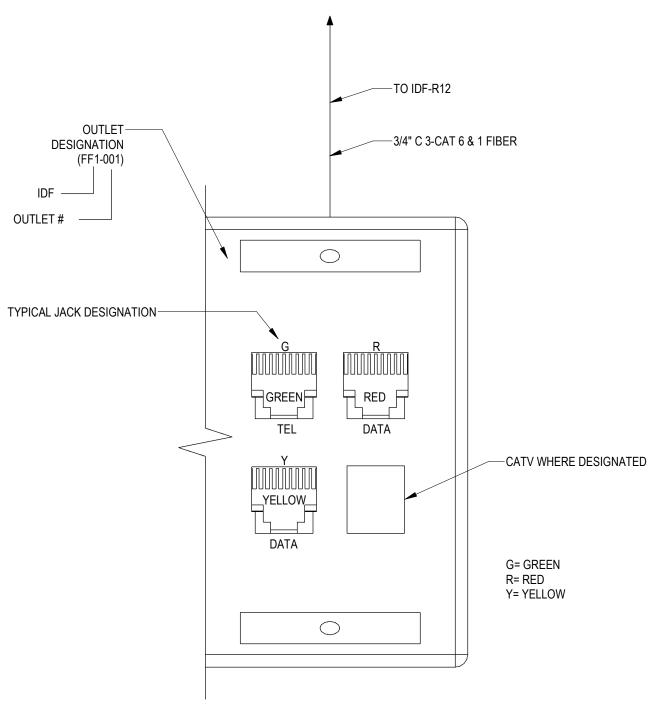
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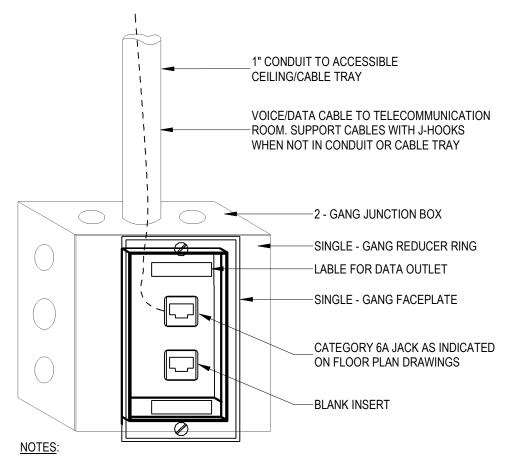
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ELECTRICAL SCHEDULES



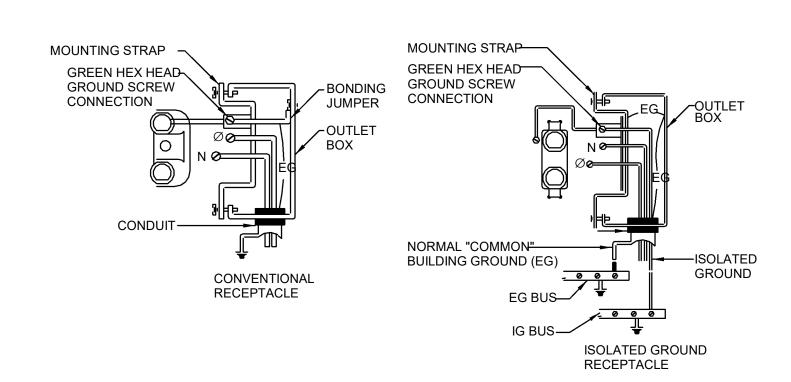
1 TYPICAL TELEPHONE/DATA DEVICE DETAIL 4 PORT NOT TO SCALE



- TERMINATE VOICE AND DATA OUTLETS WITH T568B/T568A PIN-OUT SEQUENCE. ROUTE CABLES TO TELECOMMUNICATION ROOMS AND TERMINATE ON
- RACK-MOUNTED CATEGORY 6A PATCH PANELS.
- 3. LABEL VOICE AND DATA JACK WITH THE TELECOMMUNICATION ROOM NUMBER, PATCH PANEL NUMBER AND JACK POSITION NUMBER (EX. 005-A-18)
- 4. INSTALL BLANK INSERT ON OPEN PORTS WHEN JACKS ARE NOT INSTALLED. 5. WHEN VOICE/DATA OUTLETS ARE INSTALLED AT MODULAR FURNITURE OR
- FLOOR BOX LOCATIONS, PROVIDED COMPATIBLE ADAPTER PLATES.

ENGINEER EDIT NOTE: VERIFY CABLE TYPE AND REVISE DETAIL AS REQUIRED.

2 2-PORT SINGLE DROP VOICE/DATA OUTLET DETAIL E401 / NOT TO SCALE



RECEPTACLE WIRING DETAILS E401 NOT TO SCALE

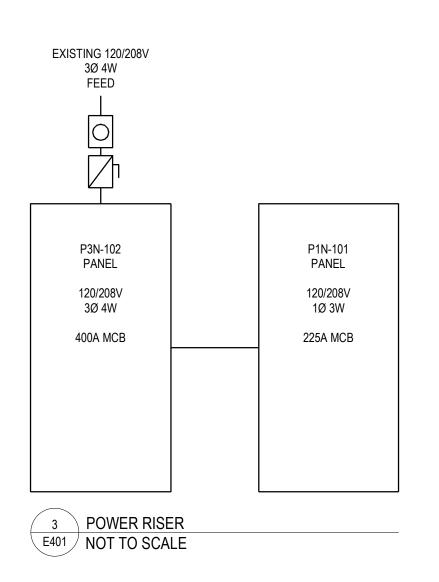
FEEDER	COPPER CO	NDUCTORS		CONDL	JIT SIZE	
TYPE	Ø & N	GND	2Ø+N+GND	3Ø+GND	3Ø+N+GND	3Ø+2N+2
20	#12	#12	16 (1/2")	16 (1/2")	16 (1/2")	21 (3/4
30	#10	#10	16 (1/2")	16 (1/2")	21 (3/4")	21 (3/4
40	#8	#10	21 (3/4")	21 (3/4")	27 (1")	27 (1'
55	#6	#10	27 (1")	27 (1")	27 (1")	27 (1'
70	#4	#8	35 (1 1/4")	35 (1 1/4")	35 (1 1/4")	35 (1 1/
85	#3	#8	35 (1 1/4")	35 (1 1/4")	35 (1 1/4")	41 (1 1/
95	#2	#8	35 (1 1/4")	35 (1 1/4")	41 (1 1/2")	41 (1 1/
110	#1	#6	41 (1 1/2")	41 (1 1/2")	41 (1 1/2")	53 (2'
150	#1/0	#6	41 (1 1/2")	41 (1 1/2")	53 (2")	53 (2'
175	#2/0	#6	53 (2")	53 (2")	53 (2")	63 (2 1/
200	#3/0	#6	53 (2")	53 (2")	53 (2")	63 (2 1/
230	#4/0	#4	53 (2")	53 (2")	63 (2 1/2")	63 (2 1/
255	250 kCM	#4	63 (2 1/2")	63 (2 1/2")	63 (2 1/2")	78 (3'
285	300 kCM	#4	63 (2 1/2")	78 (3")	78 (3")	78 (3'
310	350 kCM	#3	78 (3")	78 (3")	78 (3")	91 (3 1/
335	400 kCM	#3	78 (3")	78 (3")	78 (3")	91 (3 1/
380	500 kCM	#3	78 (3")	78 (3")	91 (3 1/2")	103 (4
510	(2) 250 kCM	(2) #1	(2) 63 (2 1/2")	(2) 63 (2 1/2")	(2) 78 (3")	(2) 78 (
570	(2) 300 kCM	(2) #1	(2) 63 (2 1/2")	(2) 63 (2 1/2")	(2) 78 (3")	(2) 91 (3
620	(2) 350 kCM	(2) #1	(2) 78 (3")	(2) 78 (3")	(2) 78 (3")	(2) 91 (3
760	(2) 500 kCM	(2) #1/0	(2) 78 (3")	(2) 78 (3")	(2) 91 (3 1/2")	(2) 103
1005	(3) 400 kCM	(3) #2/0	(3) 78 (3")	(3) 78 (3")	(3) 78 (3")	(3) 91 (3
1240	(4) 350 kCM	(4) #3/0	(4) 78 (3")	(4) 78 (3")	(4) 78 (3")	(4) 91 (3
1260	(3) 600 kCM	(3) #3/0	(3) 91 (3 1/2")	(3) 91 (3 1/2")	(3) 103 (4")	(3) 129
1675	(5) 400 kCM	(5) #4/0	(5) 78 (3")	(5) 78 (3")	(5) 91 (3 1/2")	(5) 103
1680	(4) 600 kCM	(4) #4/0	(4) 91 (3 1/2")	(4) 91 (3 1/2")	(4) 103 (4")	(4) 129
2010	(6) 400 kCM	(6) 250 kCM	(6) 78 (3")	(6) 78 (3")	(6) 91 (3 1/2")	(6) 103
2100	(5) 600 kCM	(5) 250 kCM	(5) 91 (3 1/2")	(5) 91 (3 1/2")	(5) 103 (4")	(5) 129
2520	(6) 600 kCM	(6) 350 kCM	(6) 91 (3 1/2")	(6) 91 (3 1/2")	(6) 103 (4")	(6) 129
2660	(7) 500 kCM	(7) 350 kCM	(7) 91 (3 1/2")	(7) 91 (3 1/2")	(7) 91 (3 1/2")	(7) 129
3040	(8) 500 kCM	(8) 400 kCM	(8) 91 (3 1/2")	(8) 91 (3 1/2")	(8) 91 (3 1/2")	(8) 129
4275	(8) 750 kCM	(8) 500 kCM	(8) 103 (4")	(8) 103 (4")	(8) 129 (5")	(8) 129
EQ	EQUIPMENT	FEEDER - REF	ER TO ELECTRICA	AL EQUIPMENT SCH	HEDULE	

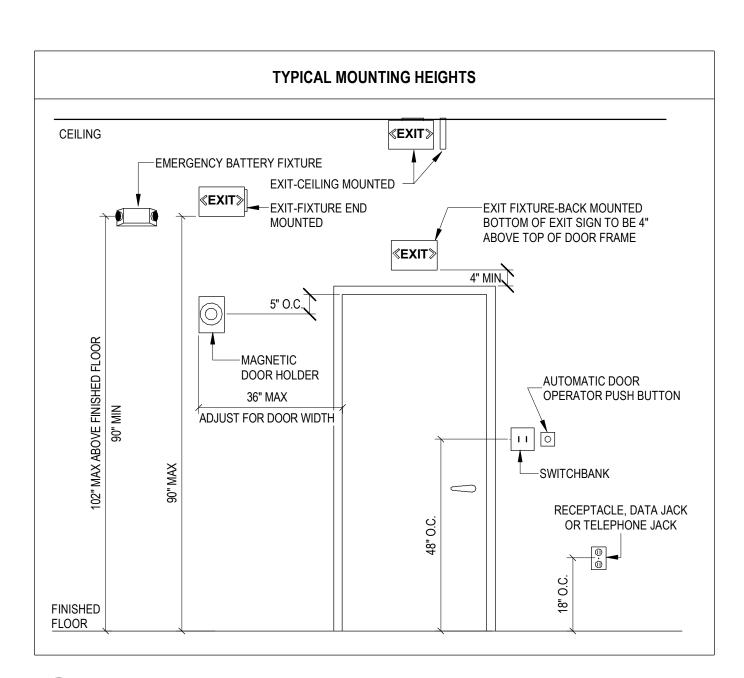
—GROUND CONDUCTORS: (0) - NO GROUND (1G) - EQUIPMENT GND OR ISOLATED GND (2G) - EQUIPMENT GND AND ISOLATED GND -SYSTEM DESCRIPTION: (3) - 1Ø, 3W OR 3Ø, 3W (4) - 3Ø, 4W (5) - 3Ø, 5W (2 NEUTRALS) -CONDUCTOR AMPACITY: (SEE FEEDER SCHEDULE)

GENERAL NOTES:

- A. THE ABOVE FEEDER SCHEDULE IS A SCHEDULE OF TYPICAL FEEDERS AND SOME SIZES MAY NOT BE
- B. ALL CONDUCTOR AMPACITIES ARE BASED ON TABLE 310-15(b)(16) OF THE NEC FOR COPPER CONDUCTOR TYPE THW/THWN.
- C. FEEDER SIZES SHOWN ON THE RISER DIAGRAM INDICATE FEEDER AMPACITIES AND DO NOT NECESSARILY CORRESPOND TO CIRCUIT BREAKER AMPACITIES. CERTAIN FEEDERS MAY BE SIZED
- FOR THE DERATION FACTORS REQUIRED BY CODE AND/OR ARE OVERSIZED FOR VOLTAGE DROP.
- D. WHERE MULTIPLE CONDUITS AND CONDUCTORS ARE INDICATED FOR A SINGLE FEEDER, EACH CONDUIT SHALL CONTAIN 1 PARALLEL PHASE, NEUTRAL, AND GROUND CONDUCTORS INDICATED.
- E. CONDUIT ABOVE GRADE INDOORS SHALL BE EMT. CONDUIT ABOVE GRADE OUTDOORS SHALL BE GALVANIZED IMC OR RMC. CONDUIT BELOW GRADE SHALL BE PVC WITH GALVANIZED RMC ELBOWS. CONDUIT SIZE INDICATED IS MINIMUM SIZE REGARDLESS OF CONDUIT TYPE.
- F. CONDUITS SIZED LARGER THAN INDICATED SHALL BE PERMITTED FOR RUNS WITH UP TO (4) 90° ELBOWS, OR FOR PULLING LONGER RUNS.
- \ CONDUIT AND WIRE SCHEDULE

E401 NOT TO SCALE





6 TYPICAL MOUNTING HEIGHTS E401 NOT TO SCALE

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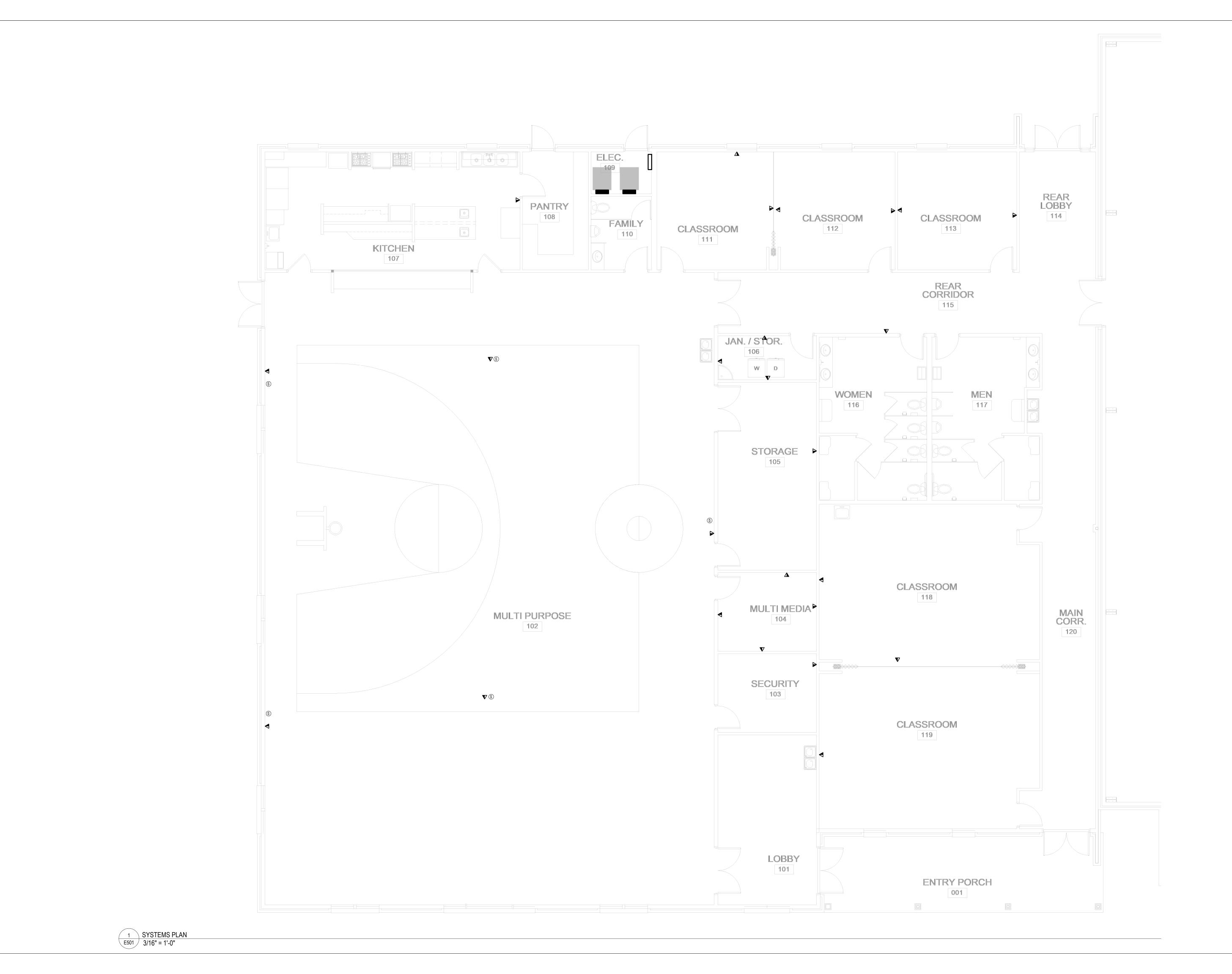
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ELECTRICAL DETAILS



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Drawin
ELECTRICAL SYSTEMS PLAN

E50²



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WEBB MT PISGAH

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120 SOMMERVILLE PARK ROAD RALEIGH, NC 27603 NC FIRM# C-3824



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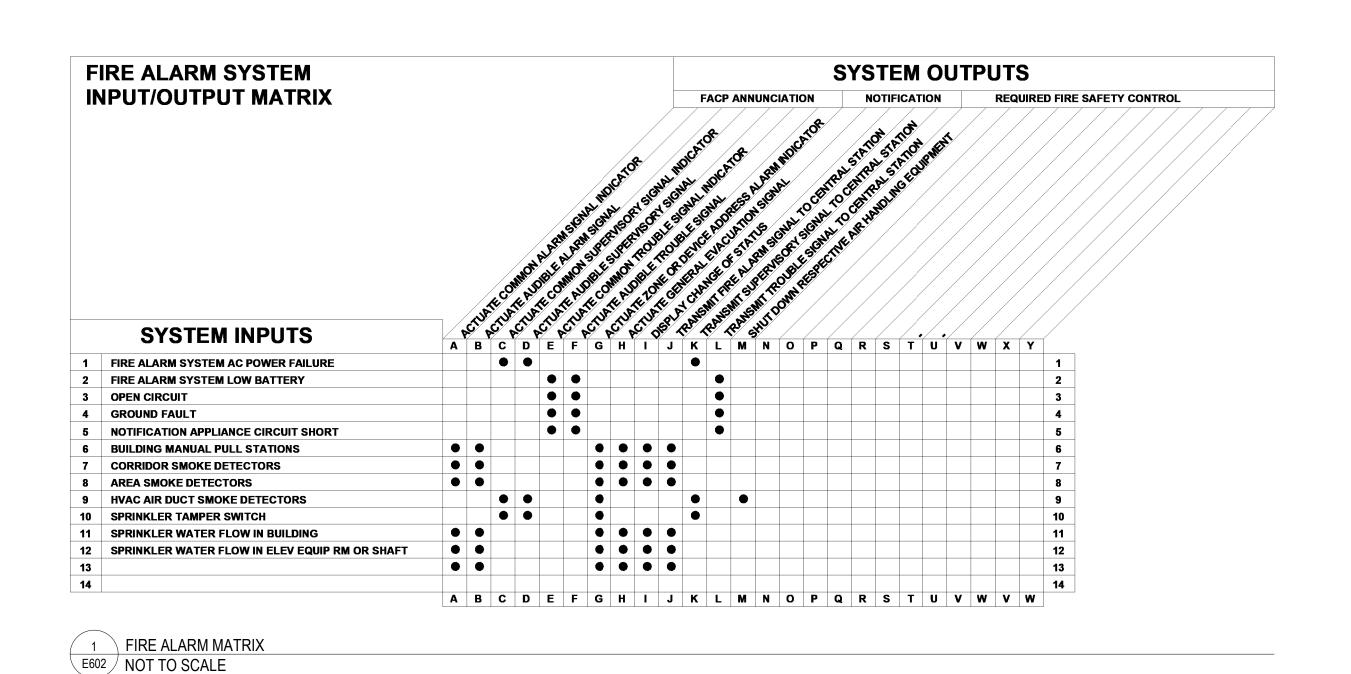
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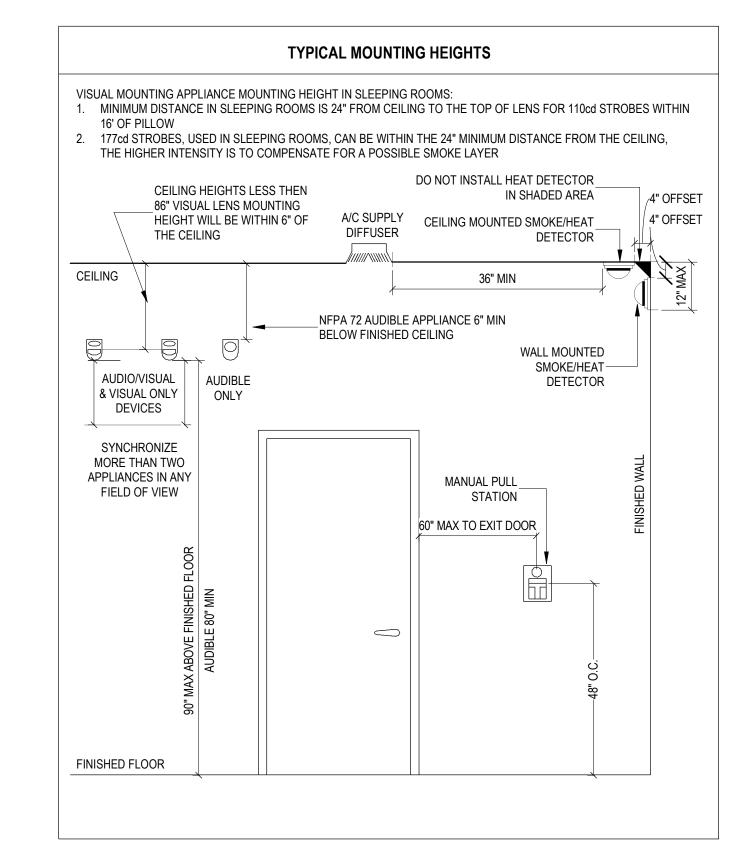
Revisions

Mark	Date	Description

FIRE ALARM PLAN

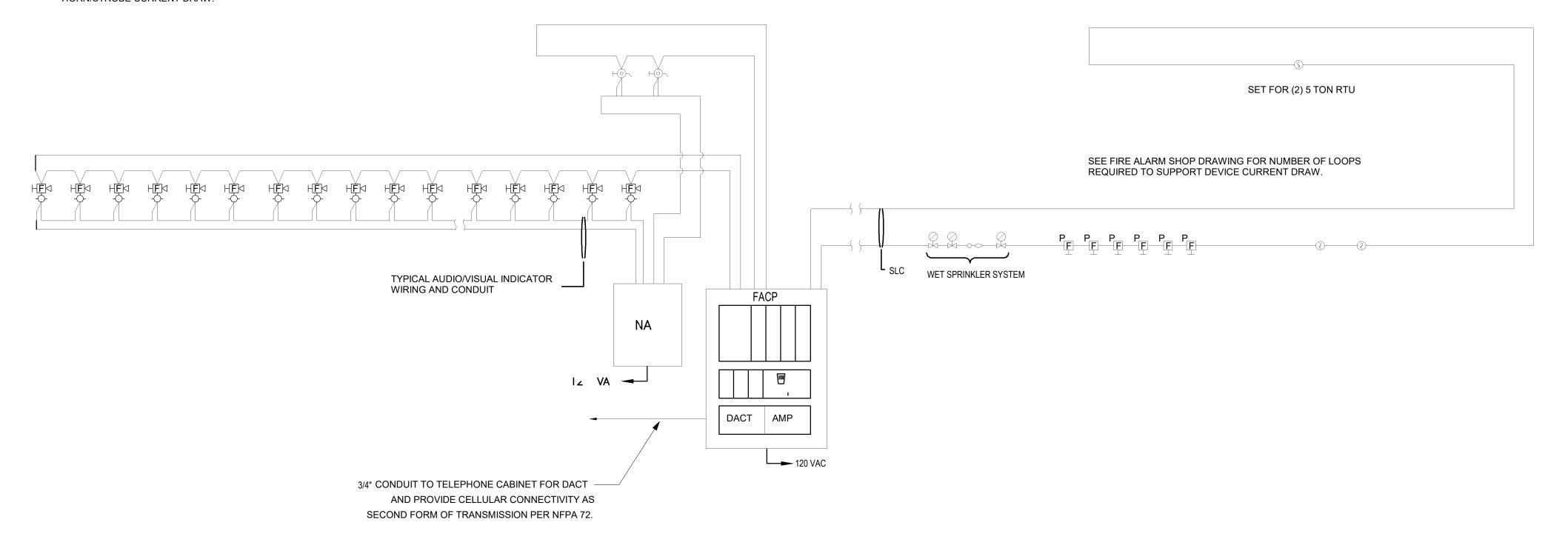
E60'

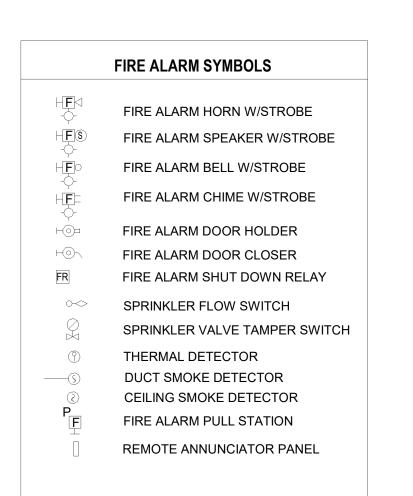




2 TYPICAL MOUNTING HEIGHTS E602 NOT TO SCALE

SEE FIRE ALARM SHOP DRAWING FOR NUMBER OF LOOPS REQUIRED TO SUPPORT HORN/STROBE CURRENT DRAW.





REFER TO FIRE ALARM SHOP DRAWINGS FOR MAKE/MODEL OF DEVICES.

3 FIRE ALARM RISER NOT TO SCALE

■ ARCHITECT

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Revisions

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FIRE ALARM DETAILS