

## GENERAL NOTES

- WORK TO BE ACCOMPLISHED ON THESE DRAWINGS AND THE ACCOMPANYING SPECIFICATIONS INCLUDES THE FURNISHING OF ALL LABOR, MATERIALS, EQUIPMENT, AND SERVICES NECESSARY FOR THE PROPER COMPLETION OF ALL MECHANICAL WORK.
- BEFORE SUBMITTING A PROPOSAL ON THE WORK CONTEMPLATED ON THESE DRAWINGS AND ACCOMPANYING SPECIFICATIONS, EACH BIDDER SHALL EXAMINE THE SITE, CHECK AS TO THE MEANS OF MAKING CONNECTIONS TO SERVICES, AND SHALL BECOME FAMILIAR WITH ALL THE EXISTING CONDITIONS AND LIMITATIONS. MECHANICAL EQUIPMENT AND SYSTEMS SHOWN AS EXISTING ON THE PLANS HAVE BEEN BASED ON EXISTING DRAWINGS. NO EXTRAS WILL BE ALLOWED BECAUSE OF THE CONTRACTOR'S MISUNDERSTANDING AS TO THE AMOUNT OF WORK INVOLVED OR HIS LACK OF KNOWLEDGE OF ANY SITE CONDITIONS WHICH MAY AFFECT HIS WORK. ANY APPARENT VARIANCE OF THE PLAN OR SPECIFICATION FROM EXISTING CONDITIONS AT THE SITE SHALL BE CALLED TO THE ATTENTION OF THE ENGINEER DURING THE BID PERIOD SO CLARIFICATION CAN BE MADE BY ADDENDUM.
- EXISTENCE OF ANY WIRES, CONDUITS, PIPES, DUCTS, OR OTHER FACILITIES ARE SHOWN IN A GENERAL WAY ONLY. IT WILL BE THE DUTY OF THE CONTRACTOR TO VISIT THE SITE AND MAKE EXACT DETERMINATION OF THE EXISTENCE OF ANY SUCH FACILITIES PRIOR TO THE SUBMISSION OF HIS BID. IT IS UNDERSTOOD THAT HE WILL BE RESPONSIBLE FOR MAKING THE EXACT DETERMINATION OF THE LOCATION AND CONDITION OF SUCH FACILITIES.
- ALL REQUIRED FEES, PERMITS, AND INSPECTIONS SHALL BE OBTAINED AND/OR ARRANGED FOR BY THE CONTRACTOR UNDER THE SECTION OF THE SPECIFICATIONS FOR WHICH THEY ARE REQUIRED.
- REGULAR INSPECTIONS SHALL BE ARRANGED BY THE CONTRACTOR AS REQUIRED BY ANY AND ALL REGULATIONS. ALL CHARGES FROM REGULATING AGENCIES FOR INSPECTIONS OR REVIEW OF PLANS AND SPECIFICATIONS SHALL BE PAID BY THE CONTRACTOR.
- CERTIFICATE OF FINAL INSPECTION. UNDER EACH APPLICABLE SECTION OF THE SPECIFICATIONS, CONTRACTOR SHALL, UPON COMPLETION OF THE WORK UNDER THAT SECTION, FURNISH A CERTIFICATE OF FINAL INSPECTION TO THE ENGINEER FROM THE INSPECTION DEPARTMENT HAVING JURISDICTION.
- ALL MATERIALS AND WORKMANSHIP SHALL COMPLY WITH ALL CURRENT AND APPLICABLE CODES, SPECIFICATIONS, ORDINANCES, LAWS, REGULATIONS, INDUSTRY STANDARDS, AND UTILITY COMPANY REGULATIONS.
- IN CASE OF DIFFERENCE AMONG BUILDING CODES, SPECIFICATIONS, STATE LAWS, LOCAL ORDINANCES, INDUSTRY STANDARDS, AND UTILITY COMPANY REGULATIONS AND THE CONTRACT DOCUMENTS, THE MOST STRINGENT SHALL GOVERN. CONTRACTOR SHALL PROMPTLY NOTIFY THE ENGINEER IN WRITING OF ANY SUCH DIFFERENCE.
- ALL APPLICABLE FEDERAL, STATE, AND LOCAL LAWS AND ORDINANCES SHALL BE ADHERED TO THROUGHOUT THE CONSTRUCTION PROJECT.
- NON-COMPLIANCE. SHOULD THE CONTRACTOR PERFORM ANY WORK THAT DOES NOT COMPLY WITH THE REQUIREMENTS OF THE APPLICABLE BUILDING CODES, STATE LAWS, LOCAL ORDINANCES, INDUSTRY STANDARDS, AND UTILITY COMPANY REGULATIONS, HE SHALL BEAR ALL COSTS ARISING TO CORRECT THE DEFICIENCIES.
- CONTRACTOR SHALL INITIATE, MAINTAIN, AND SUPERVISE ALL SAFETY PRECAUTIONS REQUIRED FOR HIS WORK, INCLUDING REGULATIONS OF THE OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION (OSHA).
- DRAWINGS ARE TO SCALE AS NOTED, BUT THE CONTRACTOR SHALL REFER TO ARCHITECTURAL AND STRUCTURAL DRAWINGS FOR EXACT LOCATION OF PARTITIONS, WALLS, BEAMS, SHAFTS, EQUIPMENT, ETC.
- EACH TRADE SHALL OBTAIN DRAWINGS AND SPECIFICATIONS OF ALL OTHER TRADES AND COORDINATE HIS WORK WITH ALL OTHER TRADES.
- DRAWINGS SHOW THE GENERAL ARRANGEMENT OF DUCTWORK, PIPING, EQUIPMENT, AND APPURTENANCES AND SHALL BE FOLLOWED AS CLOSELY AS ACTUAL BUILDING CONSTRUCTION AND WORK OF OTHER TRADES WILL PERMIT. MECHANICAL WORK SHALL CONFORM TO THE REQUIREMENTS SHOWN ON ALL OF THE DRAWINGS. ARCHITECTURAL AND STRUCTURAL DRAWINGS SHALL TAKE PRECEDENCE OVER MECHANICAL DRAWINGS. BECAUSE OF THE SMALL SCALE OF THE MECHANICAL DRAWINGS, IT IS NOT POSSIBLE TO INDICATE ALL OFFSETS, FITTINGS, AND ACCESSORIES THAT MAY BE REQUIRED.
- DISCREPANCIES DISCOVERED BEFORE OR AFTER WORK HAS STARTED SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER IMMEDIATELY, AND THE ENGINEER RESERVES THE RIGHT TO REQUIRE MINOR CHANGES IN THE WORK OF ANY CONTRACTOR TO ELIMINATE SUCH DISCREPANCIES WITH NO CHANGE IN CONTRACT COST.
- PLANS AND SPECIFICATIONS ARE COMPLEMENTARY, AND WHAT IS CALLED FOR IN EITHER ONE SHALL BE AS BINDING AS IF CALLED FOR IN BOTH.
- WHERE A DISAGREEMENT EXISTS BETWEEN THE PLANS AND SPECIFICATIONS, THE ITEM OR ARRANGEMENT OF BETTER QUALITY, GREATER QUALITY, OR HIGHER COST SHALL BE INCLUDED IN THE BID.
- ACCESS PANELS SHALL BE FURNISHED BY THE TRADE REQUIRING THEM AND DELIVERED TO THE GENERAL CONTRACTOR FOR INSTALLATION.
- ALL MATERIALS AND EQUIPMENT SHALL BE STORED IN SUCH A PLACE AND IN SUCH A MANNER THAT A MINIMUM OF CONGESTION WILL RESULT. THE PLACING OF SUCH MATERIALS AND EQUIPMENT SHALL BE SUBJECT TO THE APPROVAL OF THE TENANT.
- EACH TRADE SHALL COORDINATE WORK WITH OTHER TRADES IN THE INSTALLATION OF EQUIPMENT, PIPING, CONDUIT, AND DUCTWORK.
- HVAC/SHEET-METAL CONTRACTOR SHALL INITIATE THE COORDINATION PROCESS BY PROVIDING REPRODUCIBLE PLAN DRAWINGS SHOWING DUCTWORK AND EQUIPMENT.
- DRAWINGS WILL BE FORWARDED TO THE PIPING CONTRACTOR AND ELECTRICAL CONTRACTOR FOR INCLUSION OF THEIR SYSTEMS WORK.
- CONTRACTORS SHALL SOLVE ALL COORDINATION CONFLICTS AMONG THEMSELVES WHEN POSSIBLE. ENGINEER WILL ARBITRATE WHEN NECESSARY, AND HIS JUDGMENT WILL STAND, WITH NO ADDITIONAL COST TO THE TENANT.
- NORMAL USE OF THE FACILITY SHALL NOT BE DISTURBED, EXCEPT WITHIN THE IMMEDIATE CONSTRUCTION AREA. ALL WALKS, DRIVEWAYS, AND ENTRANCES SHALL BE KEPT CLEAR AND FREE OF ALL CONTRACTOR'S EQUIPMENT, MATERIAL, AND DEBRIS AT ALL TIMES.
- ACCESS PANELS SHALL BE AS MANUFACTURED BY MILCOR, OR APPROVED EQUAL, AND OF TYPE THE IS COMPATIBLE WITH CONSTRUCTION AND FINISH OF THE WALL AND/OR CEILING.
- EACH TRADE SHALL PERFORM ALL CUTTING AND PATCHING NECESSARY IN ORDER TO PERFORM THE WORK, UNLESS SUCH WORK HAS BEEN DELEGATED TO THE GENERAL CONTRACTOR/ANOTHER TRADE. HOWEVER, SPECIAL PERMISSION SHALL BE OBTAINED FROM THE ENGINEER BEFORE CUTTING STRUCTURAL MEMBERS OR FINISHED MATERIALS. ALL PATCHING SHALL BE PERFORMED IN SUCH MANNER AS TO LEAVE NO VISIBLE TRACE AND TO RETURN THE PART AFFECTED TO THE CONDITION OF UNDISTURBED WORK. PATCHING WORK SHALL BE PERFORMED BY PERSONS EXPERIENCED, SKILLED, AND LICENSED FOR THE PARTICULAR TYPE OF WORK INVOLVED. INTERIOR WORK WILL NOT BE ACCEPTED. ALL HOLES IN MASONRY SHALL BE DRILLED WITH ROTARY DRILLS. IMPACT TOOLS SHALL NOT BE USED.
- EACH TRADE SHALL BEAR THE EXPENSE OF ALL CUTTING, PATCHING, REPAIRING, OR REPLACING OF THE WORK OF OTHER TRADES REQUIRED BECAUSE OF HIS FAULT, ERROR, OR LACK OF KNOWLEDGE OF ANY DAMAGE DONE BY HIM.
- EACH TRADE SHALL PROVIDE ALL HOLES AND OPENINGS REQUIRED FOR HIS WORK, UNLESS SUCH HOLES AND OPENINGS ARE SHOWN TO BE PROVIDED ON THE ARCHITECTURAL OR STRUCTURAL DRAWINGS.
- EACH TRADE SHALL REMOVE EXISTING WORK THAT IS SHOWN, SPECIFIED, OR OBVIOUSLY NECESSARY FOR COMPLETION OF HIS WORK. TENANT SHALL HAVE THE OPTION OF RETAINING ANY ITEM OR MATERIAL REMOVED UNDER THIS CONTRACT. ITEMS OR MATERIALS NOT RETAINED BY TENANT SHALL BECOME THE PROPERTY OF THE TRADE AND SHALL BE REMOVED FROM THE PREMISES.
- EACH TRADE SHALL PERIODICALLY CLEAR AWAY ALL DEBRIS, SURPLUS MATERIALS, ETC., RESULTING FROM HIS WORK OR OPERATIONS, LEAVING THE JOB AND THE EQUIPMENT FURNISHED UNDER ANY OR ALL CONTRACTS IN A CLEAN CONDITION.
- EACH TRADE SHALL TEST THE EQUIPMENT PROVIDED AND/OR INSTALLED UNDER THE SPECIFICATION AND SHALL DEMONSTRATE ITS PROPER OPERATION TO THE TENANT'S OPERATING ENGINEER.
- EACH TRADE SHALL FURNISH, WITHOUT ADDITIONAL EXPENSE TO THE OWNER, THE SERVICES OF COMPETENT INSTRUCTORS, WHO WILL GIVE FULL INSTRUCTION IN THE CARE, ADJUSTMENT, AND OPERATION AND MAINTENANCE OF ALL PARTS OF THE EQUIPMENT TO THE TENANT'S PERMANENT EMPLOYEES WHO ARE TO HAVE CHARGE OF THE EQUIPMENT.
- EACH SUBCONTRACTOR SHALL BE RESPONSIBLE FOR TESTED & RATED FIRE STOP SYSTEMS FOR ALL THRU-PENETRATION OF WALLS, FLOORS & ROOF ASSEMBLIES RESULTING FROM PIPING & OTHER WORK UNDER HIS CONTRACT. REFER TO SPECIFICATION SECTION FOR FIRE STOPPING FOR REQUIREMENTS.
- ALL WOOD NAILERS AND OTHER LUMBER WHICH IS INSTALLED IN CONTACT WITH METAL, CONCRETE, OR MASONRY SHALL BE PRESSURE TREATED AGAINST DECAY (UNLESS OTHERWISE NOTED).
- PROVIDE ONLY PRODUCTS FROM MANUFACTURERS WITH LOCAL REPRESENTATION THAT CAN PROVIDE COMPLETE COVERAGE, SERVICE, PARTS AND LABOR OF THEIR PRODUCTS IN A TIMELY MANNER.
- MATERIAL EXPOSED WITHIN RETURN AIR PLENUM CEILINGS SHALL COMPLY WITH IMC SECTION 602.2.1.
- HVAC CONTRACTOR SHALL LINE THE INSIDE OF ALL RETURN/RELIEF/EXHAUST PLENUM BOXES PER SPECIFICATIONS. IF NO LINING IS REQUIRED, HVAC CONTRACTOR SHALL PAINT THE INSIDE FLAT BLACK.
- ALL DUCT SIZES ARE INTERNAL DIMENSIONS. CONTRACTOR SHALL INCREASE SHEET METAL SIZE IF DUCT REQUIRES INTERNAL LINER. SEE SPECIFICATIONS FOR INSULATION REQUIREMENTS.
- DUCT ROOF PENETRATION SIZES TO ROOFTOP UNITS ARE SAME AS DUCT MAIN, UNLESS NOTED OTHERWISE. TRANSITION TO UNIT CONNECTION SIZES WITHIN ROOF CURBS.
- LOCATIONS OF ORIFICES/L-VENTS FOR FABRIC DUCTS ARE ORIENTED WHEN MAKING THE CONNECTION TO AIRFLOW.
- HVAC EQUIPMENT SHALL BE NO CLOSER TO ROOF EDGE THAN 10'-6" AT ALL TIMES.
- MAINTAIN A MINIMUM OF 15'-0" HORIZONTAL DISTANCE FROM ANY INTAKE TO EXHAUST OUTLET.
- COORDINATE UNDERGROUND PIPING WITH GENERAL CONTRACTOR TO ENSURE PROPER FOOTING DEPTH CLEARANCE.
- PLANS DO NOT INCLUDE ALL OFFSETS FOR COORDINATION WITH DUCT, LIGHTING, AND STRUCTURAL SYSTEMS. PROVIDE ALLOWANCES FOR REQUIRED OFFSETS.
- PROVIDE ALL MATERIALS AND EQUIPMENT AND PERFORM ALL LABOR REQUIRED TO INSTALL COMPLETE AND OPERABLE PLUMBING SYSTEM AS INDICATED ON THE DRAWINGS, AS SPECIFIED, AND AS REQUIRED BY CODE.
- RUN 3" AND LARGER SANITARY WASTE, STORM DRAIN, AND ALL VENT PIPING AT 1/8" PER FOOT SLOPE UNLESS NOTED OTHERWISE; AND LESS THAN 3" WAS PIPING AT 1/4" PER FOOT SLOPE. HORIZONTAL VENT PIPING SHALL BE GRADED TO DRAIN BACK TO THE WASTE PIPE BY GRAVITY.
- ELEVATIONS SHOWN ARE TO THE INVERT OF ALL PIPING BASED ON ARCHITECTURAL FINISHED FLOOR ELEVATION (FFE) OF 100'-0", UNLESS NOTED OTHERWISE.
- ADJUST SEWER INVERTS TO KEEP BOTTOM OF PIPES IN LINE WHERE PIPE SIZES CHANGE.
- PROVIDE SHUTOFF VALVES IN ALL WATER PIPING SYSTEM BRANCHES IN WHICH BRANCH PIPING SERVES TWO OR MORE FIXTURES (NOT SHOWN FOR CLARITY) AND WHERE SHOWN ON PLAN AND RISERS.
- INSTALL PIPING SO THAT ALL VALVES, STRAINERS, UNIONS, TRAPS, FLANGES, AND OTHER ACCESSORIES REQUIRING ACCESS ARE ACCESSIBLE.
- UNIONS AND/OR FLANGES SHALL BE INSTALLED AT EACH PIECE OF EQUIPMENT, IN BYPASSES, AND IN LONG RUNS (OVER 100') TO PERMIT DISASSEMBLY FOR ALTRATION AND REPAIRS.
- ALL VALVES SHALL BE ADJUSTED FOR SMOOTH AND EASY OPERATION.
- ALL VALVES (EXCEPT CONTROL VALVES) AND STRAINERS SHALL BE FULL SIZE OF PIPE BEFORE REDUCING SIZE TO MAKE CONNECTIONS TO EQUIPMENT AND CONTROLS.
- PROVIDE CLEANOUTS IN SANITARY AND STORM DRAINAGE SYSTEMS AT THE ENDS OF RUNS, AT CHANGES IN DIRECTION, NEAR THE BASE OF STACKS, EVERY 100' IN 4" AND LARGER HORIZONTAL RUNS, EVERY 50' IN 3" AND SMALLER HORIZONTAL RUNS, WHERE NOTED ON PLANS, AND WHERE REQUIRED BY CODE.
- ALL VALVES SHALL BE INSTALLED SO THAT THE VALVE REMAINS IN SERVICE WHEN EQUIPMENT OR PIPING ON EQUIPMENT SIDE OF VALVE IS REMOVED.
- ALL PIPING WORK SHALL BE COORDINATED WITH ALL TRADES INVOLVED. OFFSETS IN PIPING AROUND OBSTRUCTIONS SHALL BE PROVIDED AT NO ADDITIONAL COST TO THE OWNER.
- SEE PLUMBING RISERS FOR SIZING NOT SHOWN ON PLAN SHEETS (FOR CLARITY) AND SEE PLUMBING FIXTURE SCHEDULE FOR FIXTURE CONNECTIONS AND RUNOUT SIZES.
- CONTRACTOR TO ENSURE THAT CLEANOUTS (FCO, WCO, CO) LOCATIONS DO NOT RUN BELOW OR BEHIND CASEWORK. MAINTAIN ACCESSIBILITY FOR SERVICING.
- PLUMBING CONTRACTOR IS RESPONSIBLE FOR ALL REMOVING, CUTTING, PATCHING, AND REPAIRING OF ALL BUILDING STRUCTURE, SURFACES, AND FINISHES REQUIRED TO COMPLETE WORK STATED IN CONTRACT DOCUMENTS.
- PLUMBING CONTRACTOR TO COORDINATE GREATER OPENINGS UNDER SINKS/LAVS WITH GENERAL CONTRACTOR PRIOR TO ORDERING MATERIALS.
- PIPES SHOWN SPREAD APART ON PLANS FOR CLARITY. CONTRACTOR TO INSTALL PIPES TIGHT TOGETHER.
- ALL UNDERSLIP DOMESTIC WATER PIPING SHALL BE CPVC OR PEK, IF NOT ALLOWED BY LOCAL JURISDICTION, PROVIDE WITH COPPER JOINTS.
- GAS PIPING SUPPLY TO BE PERMITTED.
- REDUCED PRESSURE ZONE BACKFLOW PREVENTER (RPZ) SHALL BE INSTALLED AT AN ELEVATION BETWEEN 3'-0" AFF AND 6'-0" AFF AND LABELLED INDICATING EQUIPMENT SERVED. RPZ'S SHALL BE INSPECTED AND TESTED ANNUALLY OR AT A RATE PER LOCAL CODES.
- PIPING MATERIAL FOR SANITARY WASTE, PLUMBING VENTS, AND STORM SEWER SHALL BE CAST IRON WHERE PIPING IS THROUGH A RETURN-AIR PLENUM. REFERENCE 2015 IMC, SECTION 602, WITH LOCAL AMENDMENTS.
- FIRE CAULK ALL FLOOR PENETRATIONS AND WHERE PIPING PENETRATES RATED WALLS.

## MECHANICAL ABBREVIATIONS

AFF	ABOVE FINISHED FLOOR	ISO	ISOLATOR (ISOLATION)
AP	ACCESS PANEL	LAT	LEAVING AIR TEMPERATURE
BFP	BACK FLOW PREVENTER	LF	LINEAR FEET
BHP	BRAKE HORSEPOWER	LVR	LOUVER
BLW	BELOW	LWT	LEAVING WATER TEMPERATURE
BWV	BACK WATER VALVE	MAU	MAKE-UP AIR UNIT
CD	CONDENSATE DRAIN	MEZZ	MEZZANINE
CHW	CIRCULATING HOT WATER	MXA	MIXED AIR
CLG	CEILING	N	NECK
CO	CLEANOUT	NC	NORMALLY CLOSED
CONN	CONNECTION	NO	NORMALLY OPEN
CONSTR	CONSTRUCTION	OA	OUTSIDE AIR
CONT	CONTINUOUS OR CONTINUED	OPEN	OPENING
CU	CONDENSING UNIT	OPR	OPERATING
CW	COLD WATER	PD	PRESSURE DROP
DF	DRAINING FLOOR	PG	PRESSURE GAUGE
DIFF	DIFFUSER	PLBG	PLUMBING
DMPR	DAMPER	PRV	POWER ROOF VENTILATOR
DN	DOWN	RA	RETURN AIR
EA	EXHAUST AIR	RADN	RADIATION
EAT	ENTERING AIR TEMPERATURE	RD	ROOF DRAIN
EAF	EXHAUST FAN	RECIRC	RECIRCULATE
EHC	ELECTRIC HEATING COIL	RF	RETURN FAN
EL	ELEVATION	RHC	REHEAT COIL
ESP	EXTERNAL STATIC PRESSURE	RPZ-BFP	REDUCED PRESS. ZONE B.F. PREVENTER
EUH	ELECTRIC UNIT HEATER	RWL	RAINWATER LEADER
EWC	ELECTRIC WATER COOLER	SA	SUPPLY AIR
EWH	ELECTRIC WATER HEATER	SAN	SANITARY
EXH	EXHAUST	SCW	SOFTENED COLD WATER
FCO	FLOOR CLEANOUT	SD	STORM DRAIN
FCU	FAN COIL UNIT	SF	SUPPLY FAN
FD	FLOOR DRAIN	SL	STORM LEADER
FDC	FIRE DEPARTMENT CONNECTION	SLV	SLEEVE
FHC	FIRE HOSE CABINET	SP	STATIC PRESSURE
FILT	FILTER	SPR	SUMP PUMP
FIXT	FIXTURE	SPKLR	SPRINKLER
FP	FIRE PROTECTION	STM	STEAM
FPM	FEET PER MINUTE	STR	STORM
FSV	FIRE SERVICE VALVE	SU	SUPPLY UNIT
FSW	FLOW SWITCH	SW	SANITARY WASTE
G	GAS	T	THERMOSTAT
GPH	GALLONS PER HOUR	TRANS	TRANSFER
GW	GREASE WASTE	TSP	TOTAL STATIC PRESSURE
HB	HOSE BIBB	UG	UNDERGROUND
HDCP	HANDICAPPED	UH	UNIT HEATER
HSTAT	HUMIDISTAT	V	VENT
HTG	HEATING	VD	VOLUME DAMPER
HW	HOT WATER	VTR	VENT THRU ROOF
ID	INDIRECT DRAIN	WG	WATER GAUGE
INSUL	INSULATION	WH	WALL HYDRANT
INV EL	INVERT ELEVATION	WPD	WATER PRESSURE DROP
IRR	IRRIGATION WATER		

## MECHANICAL SYMBOL LEGEND

	DOMESTIC COLD WATER (CW)		WATER HAMMER ARRESTOR		DRAIN VALVE		LINEAR DIFFUSER
	DOMESTIC HARD COLD WATER (CW)		WATER HAMMER ARRESTOR		CONNECT TO EXISTING		FLEX DUCT
	TEMPERED DOMESTIC HOT WATER (120° F)		WATER HAMMER ARRESTOR		SIAMESE FIRE DEPT. CONNECTION		ROOF (PRV) EXHAUST FAN
	DOMESTIC HOT WATER (140° F)		WATER HAMMER ARRESTOR		SUPPLY, RETURN AND EXHAUST AIR		CABINET UNIT HEATER
	RECIRCULATION HOT WATER (CHW)		WATER HAMMER ARRESTOR		MOTORIZED DAMPER		VAV BOX WITH COIL
	SANITARY WASTE UNDERGROUND		WATER HAMMER ARRESTOR		FIRE/SMOKE DAMPER		SUPPLY DUCT ELBOW WITH TURNING VANES
	GREASE WASTE UNDERGROUND		WATER HAMMER ARRESTOR		SMOKE DAMPER		STANDARD OR LINED DUCT (SUPPLY, RETURN, EXHAUST). DUCT IS LABELED TO INDICATE INTERNAL DUCT DIMENSION. SEE SPECIFICATION FOR INSULATION.
	SANITARY WASTE ABOVE GROUND		WATER HAMMER ARRESTOR		FIRE DAMPER		STANDARD ROUND TAKEOFF (CONICAL BELL MOUTH) WITH VOLUME DAMPER
	VENT		WATER HAMMER ARRESTOR		VOLUME DAMPER (MANUAL)		GAS PRESSURE REGULATOR
	VENT THRU ROOF		WATER HAMMER ARRESTOR		EXHAUST REGISTER		WALL HYDRANT
	NATURAL GAS		WATER HAMMER ARRESTOR		CEILING SUPPLY DIFFUSER		HOSE BIBB
	CONDENSATE DRAIN PIPING		WATER HAMMER ARRESTOR		RETURN AIR GRILLE/REGISTER		THERMOMETER
	THERMOSTAT		WATER HAMMER ARRESTOR		RETURN AIR GRILLE/REGISTER WITH SOUND BOOT		FLOW SWITCH
	SPACE TEMPERATURE SENSOR		WATER HAMMER ARRESTOR		SIDEWALL SUPPLY REGISTER		
	HUMIDISTAT		WATER HAMMER ARRESTOR		SIDEWALL RETURN OR EXHAUST GRILLE		
	CARBON DIOXIDE SENSOR		WATER HAMMER ARRESTOR		FLOOR REGISTER		
	TEMPERATURE GAUGE		WATER HAMMER ARRESTOR				
	N.O. NORMALLY OPEN		WATER HAMMER ARRESTOR				
	N.C. NORMALLY CLOSED		WATER HAMMER ARRESTOR				
	VFD VARIABLE FREQUENCY DRIVES		WATER HAMMER ARRESTOR				

## MECHANICAL DRAWING SHEET INDEX

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P-3	PLUMBING SCHEDULES & RISERS
P-4	PLUMBING DETAILS
P-5	PLUMBING DETAILS & SPECIFICATIONS

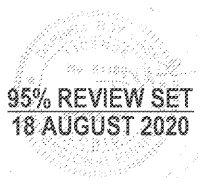
PROTOTYPE TEMPLATE

**NORTHLAKE**

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PROJECT INFORMATION:

**TIRE KINGDOM.**  
STORE # 945  
10520 COLONIAL BLVD  
FT MEYERS, LEE COUNTY, FLORIDA



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