ABBREVIATIONS

ABS	ABSOLUTE	EWH	ELECTRIC WATER HEATER	NL	NIGHT LIGHT
AC	ALTERNATING CURRENT	EWT	ENTERING WATER TEMPERATURE	N.O.	NORMALLY OPEN
AD	AREA DRAIN	EXP	EXPANSION	NO.	NUMBER
AFF	ABOVE FINISHED FLOOR	EXP JT	EXPANSION JOINT	NTS	NOT TO SCALE
AGF	AIR GAP FITTING	EXT	EXTERIOR	OA	OUTSIDE AIR
AHU	AIR HANDLING UNIT	°F	DEGREE FAHRENHEIT	OD	OUTSIDE DIAMETER
AMP	AMPERE	F	FIRE PROTECTION WATER SUPPLY	OD	OVERFLOW DRAIN
ANSI	AMERICAN NATIONAL STANDARDS INSTITUTE	FCO	FLOOR CLEANOUT	%	PERCENT
APP	APPROVED	FD	FLOOR DRAIN	PCR	PUMPED CONDENSATE RETURN
APPROX	APPROXIMATE	FDC	FIRE DEPARTMENT CONNECTION	PD	PUMPED DRAIN
AV	ACID VENT	FHC	FIRE HOSE CABINET	PDI	PLUMBING & DRAINAGE INSTITUTE
AVG	AVERAGE	FHV	FIRE HOSE VALVE	PG	PRESSURE GAUGE
B.O.P.	BOTTOM OF PIPE	FIN	FINISH	PH	PHASE–ELECTRICAL
BFP	BACKFLOW PREVENTION DEVICE	FF	FINISHED FLOOR	PIV	POST INDICATOR VALVE
BFV	BUTTERFLY VALVE	FLFD	FUSIBLE LINK FIRE DAMPER	PLBG	PLUMBING
BHP	BRAKE HORSEPOWER	FLR	FLOOR	PP	POLYPROPYLENE PIPE
BLDG	BUILDING	FO	FUEL OIL	PRV	PRESSURE REDUCING VALVE
BLV	BALANCING VALVE	FPM	FEET PER MINUTE	PSF	POUNDS PER SQUARE FOOT
BTU	BRITISH THERMAL UNIT	FPS	FEET PER SECOND	PSI	POUNDS PER SQUARE INCH
BV	BALL VALVE	FS	FLOW SWITCH	PVC	POLYVINYL CHLORIDE PIPE
BWV	BACKWATER VALVE	FT	FEET	QT	QUART
CA	COMPRESSED AIR	FU	FIXTURE UNIT	(R)	REMOVE EXISTING
C TO C	CENTER TO CENTER	FV	FLUSH VALVE	(RE)	RELOCATE EXISTING
CD	CONDENSATE DRAIN	G	NATURAL GAS	RA	RETURN AIR
CFH	CUBIC FEET PER HOUR	GA	GAUGE	RD	ROOF DRAIN
CFM	CUBIC FEET PER MINUTE	GAL	GALLONS	R&D	RESEARCH & DEVELOPMENT
CHWR	CHILLED WATER RETURN	GALV	GALVANIZED	REQ	REQUIRED
CHWS	CHILLED WATER SUPPLY	GPD	GALLONS PER DAY	RG	RETURN AIR GRILLE
CI	CAST IRON	GPH	GALLONS PER HOUR	RH	RELATIVE HUMIDITY
CISP	CAST IRON SOIL PIPE	GPM	GALLONS PER MINUTE	RM	ROOM
CISPI	CAST IRON SOIL PIPE INSTITUTE	GR	GRAINS OF MOISTURE	RPM	REVOLUTIONS PER MINUTE
CKT	CIRCUIT	GRD	GROUND	RR	RETURN AIR REGISTER
CLG	CEILING	GWH	GAS WATER HEATER	RWC	RAINWATER CONDUCTOR
CO	CLEANOUT	H	ENTHALPY	RZBP	REDUCED PRESSURE ZONE BFP
CO_2	CARBON DIOXIDE	HB	HOSE BIBB	SA	SHOCK ABSORBER
COL	COLUMN	HC	HANDICAP	SAN	SANITARY WASTE
COND	CONDENSATE	HD	HEAD	SCH	SCHEDULE
CONN	CONNECTION	HP	HORSEPOWER	SD	SUPPLY AIR DIFFUSER
CONT	CONTINUED	HPCR	HIGH PRESSURE CONDENSATE RETURN	SF	SQUARE FEET
CONTR	CONTRACTOR	HPSS	HIGH PRESSURE STEAM SUPPLY	SH	SHOWER
CP	CONTROL PANEL	HR	HOUR	SP	STANDPIPE
CR	CONDENSER RETURN	HS	HOSE STATION	SPD	SURGE PROTECTION DEVICE
CS	CONDENSER SUPPLY	HT	HEIGHT	SPEC	SPECIFICATION
CU FT	CUBIC FEET	HTR	HEATER	SPR	SPRINKLER
CU IN	CUBIC INCHE	HVAC	HEATING VENTILATION AIR CONDITIONING	SQ	SQUARE
CV	CHECK VALVE	HW	HOT WATER (DOMESTIC)	SR	SUPPLY AIR REGISTER
CW	COLD WATER (DOMESTIC)	HWR	HOT WATER RETURN (DOMESTIC)	SS	STAINLESS STEEL
DB	DECIBEL	HWR	HOT WATER RETURN	STD	STANDARD
DB	DRY BULB	HWS	HOT WATER SUPPLY	STL	STEEL
DCBP	DOUBLE CHECK BACKFLOW PREVENTER	HZ	FREQUENCY–ELECTRICAL	STR	STRAINER
DD	DECK DRAIN	ID	INSIDE DIAMETER	STRUC	STRUCTURAL
DEG	DEGREE	ID	INDIRECT DRAIN	SUCT	SUCTION
DFU	DRAINAGE FIXTURE UNIT	IE	INVERT ELEVATION	SV	SANITARY VENT
DI	DEIONIZED WATER	IW	INDIRECT WASTE	SWV	SANITARY WASTE VENT
DIA	DIAMETER	KW	KILOWATT	T&P	TEMPERATURE & PRESSURE RELIEF VALVE
DIS	DISTILLED WATER	KWH	KILOWATT HOUR	TEMP	TEMPERATURE
DISCH	DISCHARGE	LAT	LEAVING AIR TEMPERATURE	THERM	THERMOMETER
DN	DOWN	LAV	LAVATORY	T.O.P.	TOP OF PIPE
DP	DEEP	LBS	POUNDS	TP	TRAP PRIMER
DS	DOWNSPOUT	LF	LINEAR FEET	TYP	TYPICAL
DSP	DRY STANDPIPE	LL	LOW LEVEL	UL	UNDERWRITER'S LABORATORY
DTR	DUAL TEMPERATURE RETURN	LP	LIQUID PROPANE	UTIL	UTILITY
DTS	DUAL TEMPERATURE SUPPLY	LPCR	LOW PRESSURE CONDENSATE RETURN	VAC	VACUUM
DTTV	DOUBLE THICK TURNING VANES	LPCS	LOW PRESSURE CONDENSATE SUPPLY	VAV	VARIABLE AIR VOLUME
DVC	DRY VACUUM CLEANING	LWT	LEAVING WATER TEMPERATURE	VB	VACUUM BREAKER
DWG	DRAWING	MAU	MAKE–UP AIR UNIT	VD	VOLUME DAMPER
DWR	DOMESTIC WATER RISER	MAX	MAXIMUM	VEL	VELOCITY
(E)	EXISTING	MECH	MECHANICAL	VERT	VERTICAL
EA	EXHAUST AIR	MFR	MANUFACTURER	VFD	VARIABLE FREQUENCY DRIVE
EAT	ENTERING AIR TEMPERATURE	MH	MANHOLE	VIF	VERIFY IN FIELD
EFF	EFFICIENCY	MIN	MINIMUM	VOL	VOLUME
EFL	EFFLUENT	MISC	MISCELLANEOUS	VPC	VIA PHOTOCELL
EL	ELEVATION	MOD	MOTOR OPERATED DAMPER	VTC	VIA TIME CLOCK
ELEC	ELECTRICAL	MPCR	MEDIUM PRESSURE CONDENSATE RETURN	VTR	VENT THROUGH ROOF
EMF	ELECTROMOTIVE FORCE	MPH	MILES PER HOUR	W/	WITH
EQ	EQUAL	MPSS	MEDIUM PRESSURE STEAM SUPPLY	WB	WET BULB TEMPERATURE
EQUIP	EQUIPMENT	(N)	NEW	WCO	WALL CLEANOUT
ES	EMERGENCY SHOWER	NA	NOT APPLICABLE	WH	WALL HYDRANT
ESP	EXTERNAL STATIC PRESSURE	NC	NOISE CRITERIA	WP	WEATHERPROOF
EVAP	EVAPORTATOR	N.C.	NORMALLY CLOSED	W/O	WITHOUT
EW	EMERGENCY EYEWASH	NIC	NOT IN CONTRACT	WSFU	WATER SUPPLY FIXTURE UNITS
EWC	ELECTRIC WATER COOLER			YR	YEAR

GENERAL NOTES

1. ALL WORK TO BE IN CONFORMANCE WITH NEW YORK STATE PLUMBING CODE 2020, OR LOCAL CODE HAVING JURISDICTION. NOT ALL CODE REQUIREMENTS HAVE BEEN DESCRIBED IN THIS SPECIFICATION OR INDICATED ON THE DRAWINGS. IT IS THE CONTRACTOR'S RESPONSIBILITY TO BE FAMILIAR WITH THE CODES AND INSTALL THE WORK IN ACCORDANCE WITH CODES.
2. OBTAIN AND PAY FOR BUILDING PERMITS, INSPECTIONS, CONNECTION CHARGES, AND FEES.
3. PROVIDE SHOP DRAWINGS OF ALL EQUIPMENT FOR REVIEW PRIOR TO ORDERING. COORDINATE ALL ELECTRICAL REQUIREMENTS WITH ELECTRICAL CONTRACTOR AND PHYSICAL DIMENSIONS PRIOR TO SHOP DRAWING SUBMISSION.
4. THREE (3) PHASE STARTERS TO BE PROVIDED BY PLUMBING CONTRACTOR. MAGNETIC ACROSS THE LINE, AUXILIARY CONTACTS. SINGLE PHASE STARTERS BY ELECTRICAL CONTRACTOR.
5. ALL WORK TO BE CONCEALED UNLESS OTHERWISE INDICATED.
6. THE PLUMBING CONTRACTOR SHALL PROVIDE ALL REQUIRED INPUT OF THE PLUMBING SYSTEM TO THE MECHANICAL CONTRACTOR FOR THE COORDINATION DRAWINGS.
7. PROPERLY INSTRUCT OWNERS PERSONNEL IN THE OPERATION AND MAINTENANCE OF ALL SYSTEMS AND EQUIPMENT. PROVIDE THREE INSTRUCTIONS AND MAINTENANCE MANUALS. SUBMIT MANUALS FOR REVIEW PRIOR TO OPERATING INSTRUCTION PERIOD.
8. COORDINATE LOCATIONS AND ROUGH–IN REQUIREMENTS WITH ALL TRADES PRIOR TO INSTALLATION.
9. IF THE CONTRACTOR ELECTS TO SUBMIT ALTERNATE EQUIPMENT, MANUFACTURERS, SYSTEMS, METHODS, OR MATERIALS, NOT SPECIALLY IDENTIFIED IN THE DRAWINGS AND SPECIFICATIONS, IT IS THE CONTRACTORS RESPONSIBILITY TO COORDINATE THE WORK WITH OTHER TRADES AND PAY FOR ANY ADDITIONAL COSTS WITH THE SUBSTITUTION OR CHANGE.
10. PROVIDE RECORD AS–BUILT DRAWINGS AT COMPLETION OF WORK. SUBMIT TO OWNER AND ENGINEER FOR REVIEW AND APPROVAL.
11. CONTRACTOR SHALL VISIT SITE PRIOR TO BID SUBMISSION AND BECOME AWARE OF ALL CONDITIONS WHICH MAY AFFECT THE WORK. SUBMISSION OF BID WILL BE DEEMED EVIDENCE OF HAVING COMPLETED WITH THE REQUIREMENTS. CONTRACTOR TO INCLUDE ALL ASSOCIATED COSTS (MATERIALS/LABOR) AS A RESULT OF THE SITE VISIT INSPECTION.
12. DRAWINGS AND SPECIFICATIONS ARE INTENDED TO BE TAKEN AS A WHOLE. IF A CONFLICT OR CONTRADICTION EXISTS BETWEEN THE DRAWINGS AND SPECIFICATIONS, THE MORE STRINGENT SHALL APPLY. THE ARCHITECT'S AND ENGINEER'S INTERPRETATION OF THE DOCUMENTS SHALL BE BINDING UPON THE CONTRACTOR.
13. ALL WORK SHALL BE COORDINATED WITH THE OWNER PRIOR TO SHUT DOWN AND OBTAIN APPROVAL. ALL REQUESTS SHALL BE WRITTEN AND SUBMITTED TO THE OWNER 24 TO 48 HOURS PRIOR TO REQUESTED DELETIONS.
14. COORDINATE ELECTRICAL REQUIREMENTS WITH THE ELECTRICAL CONTRACTOR PRIOR TO PURCHASING EQUIPMENT. VERIFY VOLTAGES AND AMPERAGES FOR FEEDERS.
15. ALL FINISHES RELATED TO PLUMBING EQUIPMENT, TERMINAL EQUIPMENT, AIR DEVICES, PERIMETER HEATERS, LOUVERS, ACCESS PANELS, EXPOSED WIREMOLD/RACEWAYS, ETC. SHALL BE COORDINATED AND SELECTED BY THE ARCHITECT/OWNER/ENGINEER PRIOR TO SHOP DRAWING SUBMISSION, ORDERING, AND INSTALLATION.
16. FINAL LOCATIONS OF ALL ACCESS PANELS, ETC. IN FINISHED SPACES SHALL BE COORDINATED AND APPROVED BY THE ARCHITECT/OWNER PRIOR TO ROUGH–IN AND INSTALLATION.
17. CONTRACTOR TO PROVIDE MANUFACTURER'S START–UP OF ALL EQUIPMENT/SYSTEM.
18. ALL EXTERIOR WALL/ROOF PENETRATIONS SHALL BE SEALED AIR/WATER TIGHT. ALL PIPING PASSING THROUGH WALL OR FLOOR PENETRATIONS SHALL HAVE SLEEVES. ALL WALL OR FLOOR RATED PENETRATIONS SHALL BE SEALED WITH FIRE RATED SEALANT FORMED IN PLACE BY 3M OR HILTI.
19. FURNISH AND INSTALL ACCESS DOORS FOR ALL VALVES, DAMPERS, DEVICES, CONTROLLERS, ETC WHICH MAY NEED SERVICE AND ACCESS. ACCESS PANELS SHALL BE 16 GAUGE STEEL FRAME, 20 GAUGE HINGED DOOR, LOCKABLE AND FIRE RATED (WHEN IN RATED WALLS, FLOORS, "B" LABEL, 1 1/2 HRS). FINISH AS SELECTED BY THE ARCHITECT.
20. ALL TRIM, TRAPS, ESCUTCHEON PLATES, SEAT HINGES AND ANY MISCELLANEOUS PARTS OF FIXTURES SHALL BE CHROME PLATED BRASS.
21. VENTS THROUGH ROOF SHALL BE FLASHED WITH "SURE SEAL" PRE–MOLDED OR SIMILAR TYPE BOOT AS RECOMMENDED BY THE ROOFING CONTRACTOR.
22. CONTRACTOR SHALL COORDINATE HIS WORK AND THE WORK OF HIS SUB–CONTRACTORS TO ENSURE THAT ALL THE WORK IS COVERED. CONTRACTOR SHALL PROVIDE COMPLETE COORDINATION DRAWINGS INCLUDING ALL TRADES (MECHANICAL, ELECTRICAL, AND FIRE PROTECTION). CONTRACTOR SHALL COORDINATE ALL CONNECTIONS TO SITE CIVIL WORK BEFORE ANY WORK IS STARTED.
23. THE CONTRACTOR SHALL PROVIDE BALANCING VALVES ON ALL BRANCHES OF THE DOMESTIC HOT WATER RETURN SYSTEM, BALANCE THE SYSTEM, AND PROVIDE BALANCING REPORT TO THE OWNER/ENGINEER FOR RECORD.

SPRINKLER NOTES

SPRINKLER NOTE

CONTRACTOR IS TO MODIFY THE EXISTING SPRINKLER SYSTEM IN ACCORDANCE WITH NFPA–13 LIGHT HAZARD OCCUPANCY. SPRINKLER SHOP DRAWINGS AND HYDRAULIC CALCULATIONS SHALL BE SUBMITTED TO THE STATE DEPARTMENT OF HEALTH, LOCAL AUTHORITY HAVING JURISDICTION, OWNER'S INSURANCE CARRIER, AND MCHUGH ENGINEERING, PRIOR TO ORDERING, ROUGH–IN, OR INSTALLATION. CONTRACTOR SHALL RAISE OR EXTEND EXISTING BRANCH/MAIN SPRINKLER PIPING TO SUIT NEW CEILING AND PARTITION ARRANGEMENT. ALL EXISTING HEADS SHALL BE REPLACED W/ CONCEALED HEADS. PROVIDE ADDITIONAL CONCEALED HEADS TO MATCH EXISTING WHERE REQUIRED, AND READJUST EXIST. HEADS TO SUIT THE NEW CEILING GRID LAYOUT. SPRINKLER HEADS SHALL BE CENTERED IN THE TILES. CONTRACTOR IS TO PROVIDE ALL THE NECESSARY MATERIALS & LABOR TO MODIFY AND COMPLETE INSTALLATION. "FLEX HEAD" SPRINKLER HEADS ARE ACCEPTABLE EQUAL.

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DRAWING LIST

MOUNT SAINT MARY COLLEGE- GUZMAN HALL			Issued for Permit 07/19/21	Issued for Bid Set 08/27/2021	Issued for Addendum 1 09/23/2021	Issued for Bid Revision #2 11/22/2021
P0.1	COVER SHEET	- PLUMBING	●	●	●	●
DP1.1	GROUND FLOOR DEMO PLAN	- PLUMBING	●	●		●
DP1.2	FIRST FLOOR DEMO PLAN	- PLUMBING	●	●		●
P1.1	GROUND FLOOR PLAN	- PLUMBING	●	●		●
P1.2	FIRST FLOOR PLAN	- PLUMBING	●	●	●	●
P2.1	DETAILS & SCHEDULES	- PLUMBING	●	●		●
P2.2	DETAILS & SCHEDULES	- PLUMBING	●	●		●

DRAWING SYMBOLS LIST

A–A A–A CROSS–SECTION

EQUIPMENT DESIGNATION

EQUIPMENT NUMBER

EQUIPMENT/RISER DESIGNATION

EQUIPMENT/RISER NUMBER

DRAWING NOTE DESIGNATION

REVISION TRIANGLE

PROJECT DEDUCT/ADD ALTERNATES

NOTICE

THE SCHEDULES AND DRAWINGS REPRESENT ONLY CERTAIN REQUIREMENTS OF THE PROJECT. THERE ARE ADDITIONAL REQUIREMENTS IN THE SPECIFICATIONS BOOKLET WHICH THE CONTRACTOR IS BOUND TO PROVIDE. A SUPPLIER OR CONTRACTOR'S PRICING, WHICH IS BASED ONLY ON DRAWINGS OR SCHEDULES, MAY LEAVE IMPORTANT COSTS UNACCOUNTED FOR WHICH WILL ULTIMATELY BE THE CONTRACTOR OR SUPPLIER'S RESPONSIBILITY TO PROVIDE.

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P0.1