GALLONS PER MINUTE

HOSE BIBB

HUB OUTLET

HORSEPOWER

GPM

HO

ABBREV.	DESCRIPTION
עסטו/בי.	DESCRIPTION
HR	HOUR
HTG	HEATING
HYD	HYDRANT
HZ	HERTZ
ID	INSIDE DIAMETER
ΙE	INVERT ELEVATION
IN	INCHES
INST	INSTALLED
INV	INVERT
ISP	INTERNAL STATIC PRESSURE
IW	INDIRECT WASTE
KW	KILOWATT
LAT	LEAVING AIR TEMPERATURE
LAV	LAVATORY
LBS/HR	POUNDS PER HOUR
LDB	LEAVING DRY BULB TEMPERATURE
	LOCKED ROTOR AMPS
LRA LWB	LEAVING WET BULB TEMPERATURE
MAV	MANUAL AIR VENT
MAX	MAXIMUM
MBH	1000 BRITISH THERMAL UNITS PER HOUR
MCA	MINIMUM CIRCUIT AMPACITY
MECH	MECHANICAL
MFR	MANUFACTURER
МН	MANHOLE
MIN	MINIMUM
MISC	MISCELLANEOUS
MOD	MOTOR OPERATED DAMPER (AUTOMATIC)
MOP	MAXIMUM OVER-CURRENT PROTECTION
N.C.	NOISE CRITERIA
NIC	NOT IN CONTRACT
NC	NORMALLY CLOSED
NO	NORMALLY OPEN
NOM	NOMINAL
OA	OUTSIDE AIR
OBD	OPPOSED BLADE DAMPER
OC	ON CENTER / CENTER TO CENTER
OD	OUTSIDE DIAMETER
OED	OPEN ENDED DUCT
ORS	OVERFLOW ROOF SUMP
OS&Y	OUTSIDE SCREW AND YOKE
PD	PRESSURE DROP (FEET OF WATER)
PRV	PRESSURE REDUCING VALVE
PSIA	POUNDS PER SQUARE INCH - ABSOLUTE
PSIG	POUNDS PER SQUARE INCH — GAUGE
PT	PRESSURE / TEMPERATURE PORT
RA	RETURN AIR
RH	RELATIVE HUMIDITY
REQD	REQUIRED
REL.A	RELIEF AIR
RPM	REVOLUTIONS PER MINUTE
RPZ	REDUCED PRESSURE ZONE
RS	ROOF SUMP
SA	SUPPLY AIR
SH	SHOWER
SP	STATIC PRESSURE
SqFt / SF	SQUARE FOOT/SQUARE FEET
SS	SERVICE SINK
TC	TEMPERATURE CONTROL
10	
	TEMPERATURE AND PRESSURE
T & P	TOTAL OTITIC COSCILIA
T & P	TOTAL STATIC PRESSURE
T & P TSP TYP	TYPICAL
T & P	
T & P TSP TYP	TYPICAL

MEC	HANICAL ABBREVIATIONS
ABBREV.	DESCRIPTION
UR	URINAL
VD	VOLUME DAMPER (MANUALLY ADJUSTABLE)
VTR	VENT THRU ROOF
W	WASTE
W&V	WASTE AND VENT
WB	WET BULB TEMPERATURE
WC	WATER CLOSET
WG	WATER GAUGE
WH	WALL HYDRANT

MECH	IANICAL PIPING SYMBOLS
ABBREV.	DESCRIPTION
	PIPE ELBOW UP
———э	PIPE ELBOW DOWN
<del></del>	PIPE TEE DOWN
<b></b>	DIRECTION OF FLOW
—— I	UNION
<del></del>	STRAINER
—D—	CONCENTRIC REDUCER
	ECCENTRIC REDUCER
_=	EXPANSION JOINT
——————————————————————————————————————	FLEXIBLE CONNECTION
X	PIPE ANCHOR
	PIPE GUIDE
<b>─</b>	PIPE CAP OR PLUG
——⋈——	ISOLATION VALVE
	CIRCULATING PUMP
¤—_	GLOBE VALVE
<u> </u>	BALL VALVE
—— /I——	BUTTERFLY VALVE
<b>─</b>	BACKWATER VALVE
<b>≱</b>	ANGLE VALVE
	CHECK VALVE (SWING)
<i>⊗</i>	CHECK VALVE (SPRING)
——I√I——	PLUG VALVE
W	NEEDLE VALVE
	OUTSIDE SCREW AND YOKE VALVE (OS&Y)
	PRESSURE REGULATING VALVE
	SOLENOID VALVE
	CONTROL VALVE (2-WAY / 3-WAY)
$\overline{\mathcal{O}}$	CENTRIFUGAL FAN
) 6	AUTOMATIC GAS SHUT-OFF VALVE
<u> </u>	TRAP (PLAN VIEW)
O <b>(</b>	FLOOR DRAIN / FUNNEL FLOOR DRAIN (PLAN VIEW)
 Y _\T	FLOOR DRAIN / FUNNEL FLOOR DRAIN (ELEVATION)
	ROOF SUMP
——⊕ CO	CLEAN OUT (IN FLOOR)
	CLEAN OUT (IN LINE)
	CLEAN OUT (WALL)
BFP	BACKFLOW PREVENTER
—————————————————————————————————————	WATER METER ASSEMBLY
+	HOSE BIBB, WALL HYDRANT
_	DIRECTION OF PIPE PITCH
<u></u>	SPRINKLER HEAD (UPRIGHT)
$\triangleleft$	SPRINKLER HEAD (SIDEWALL)
—FS	FLOW SWITCH
₫,	SIAMESE CONNECTION (YARD)
→ \	SIAMESE CONNECTION (WALL MOUNTED)
<i>&gt;</i>	FIRE HYDRANT
- <u>&gt;</u>	FLOW MEASURING DEVICE
<i>&gt;</i> ⁄⁄	BALANCING VALVE
₩	COMBINATION FLOW MEASURING AND BALANCING DEVICE
⊠ ∏AAV	AUTOMATIC AIR VALVE

М	ECHANICAL SYMBOLS			PIPING LEGEND
ABBREV.	DESCRIPTION	] [	ABBREV.	DESCRIPTION
¥ ->	RECTANGULAR TAKE—OFF (SINGLE LINE)		——CA——	COMPRESSED AIR PIPING
<u></u>	,	- [	——CD——	CONDENSATE DRAIN PIPING
	RECTANGULAR TAKE-OFF (DOUBLE LINE)		——DT——	DRAIN TILE
<del></del>	ROUND TAKE-OFF (SINGLE LINE)	] [	——F——	FIRE PROTECTION PIPING
<u></u>		- [	——FOR——	FUEL OIL RETURN PIPING
	ROUND TAKE—OFF (DOUBLE LINE)	] [	——FOS——	FUEL OIL SUPPLY PIPING
	SPIN-IN FITTING (WITH VOLUME DAMPER)	] [	——G——	NATURAL GAS PIPING
7		- [	——BCW——	BOOSTED-DOMESTIC COLD WATER PIPING
\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	ELBOW (WITH TURNING VANES)		——ВНW——	BOOSTED-DOMESTIC HOT WATER PIPING
A	RADIUS RECTANGULAR ELBOW	] [	——CW——	DOMESTIC COLD WATER PIPING
		- [	NPCW	NON POTABLE COLD WATER PIPING
	RADIUS ROUND ELBOW	] [	——TW——	TEMPERED WATER PIPING
	RECTANGULAR ELBOW UP		——HW——	DOMESTIC HOT WATER PIPING
		-	-HW(140°F)-	DOMESTIC 140°F HOT WATER PIPING
	ROUND ELBOW UP		——HWR——	DOMESTIC HOT WATER RETURN PIPING
	RECTANGULAR ELBOW DOWN		SAN	SANITARY WASTE PIPING
		- [	PSAN	PUMPED SANITARY PIPING
	ROUND ELBOW DOWN		V	VENT PIPING
	CONCENTRIC TRANSITION (DOUBLE LINE)		——ST——	STORM SEWER PIPING
_		<u> </u>	——PST——	PUMPED STORM PIPING
	CONCENTRIC TRANSITION (SINGLE LINE)		——RC——	RAIN CONDUCTOR PIPING
	ECCENTRIC TRANSITION (DOUBLE LINE)		ORC	OVERFLOW RAIN CONDUCTOR PIPING
		- I	——RL——	REFRIGERANT LIQUID PIPING
	ECCENTRIC TRANSITION (SINGLE LINE)	] [	RS	REFRIGERANT SUCTION PIPING
R	INCLINED RISE IN DIRECTION OF AIR FLOW (DOUBLE LINE)		HGB	HOT GAS BY-PASS PIPING

INCLINED RISE IN DIRECTION OF AIR FLOW

INCLINED DROP IN DIRECTION OF AIR FLOW

INCLINED DROP IN DIRECTION OF AIR FLOW

FLEXIBLE DUCT CONNECTION TO SUPPLY

(SINGLE LINE)

(DOUBLE LINE)

(SINGLE LINE)

DIFFUSER

丰

— – — M

(CO2)

FLEXIBLE CONNECTION

SUPPLY DIFFUSER

TRANSFER GRILLE

EXISTING

EXISTING

NEW

LINEAR SLOT DIFFUSER

RETURN OR EXHAUST GRILLE

CROSS SECTION OF SUPPLY AIR DUCT

CROSS SECTION OF EXHAUST OR RETURN AIR

FIRE DAMPER (HORIZONTAL)

FIRE DAMPER (VERTICAL)

COMBINATION FIRE/SMOKE DAMPER

COMBINATION FIRE/SMOKE DAMPER

VOLUME DAMPER (MANUALLY ADJUSTABLE)

RETURN OR EXHAUST / SUPPLY AIR FLOW

SMOKE DAMPER

(VERTICAL)

(HORIZONTAL)

MOTORIZED DAMPER

SMOKE DETECTOR

THERMOSTAT OR

HUMIDISTAT OR HUMIDITY SENSOR

TEMPERATURE SENSOR

CO2 SENSOR

	APPLICABLE CODES AND REGULATIONS
YEAR	CODE
2020	BUILDING CODE OF NEW YORK STATE
2020	ENERGY CONSERVATION CODE OF NYS
2020	PLUMBING CODE OF NYS
2020	MECHANICAL CODE OF NYS
2020	FIRE CODE OF NYS
2020	FUEL GAS CODE OF NYS
2017	NFPA 96
2016	NFPA 13, NFPA 14, NFPA 20
2010	ADA STANDARDS FOR ACCESSIBLE DESIGN (DOJ)

WAT	ER FLOW T	EST DATA
DATE PERFORMED	REPORT	ED PRESSURES
08-14-2019	STATIC	RESIDUAL
00-14-2019	36 PSI @ 840 GPM	33.7 PSI @500 GPM

	DRAWING INDEX
SHT NO	DESCRIPTION
M000	MECHANICAL GENERAL INFORMATION
F100	FIRE PROTECTION PLANS AND DETAILS
M100	UNDERGROUND PLUMBING PLAN
M110	FIRST FLOOR PLUMBING PLAN
M120	SECOND FLOOR PLUMBING PLAN
M130	THIRD FLOOR PLUMBING PLAN
M140	FOURTH FLOOR PLUMBING PLAN
M150	FIFTH FLOOR PLUMBING PLAN
M210	FIRST FLOOR HVAC PLAN
M220	SECOND FLOOR HVAC PLAN
M230	THIRD FLOOR HVAC PLAN
M240	FOURTH FLOOR HVAC PLAN
M250	FIFTH FLOOR HVAC PLAN
M260	ROOF MECHANICAL PLAN
M500	MECHANICAL DETAILS
M501	MECHANICAL DETAILS
M502	MECHANICAL DETAILS
M503	MECHANICAL DETAILS
M600	MECHANICAL SCHEDULES
M601	MECHANICAL SCHEDULES
М700	MECHANICAL DIAGRAMS
M701	MECHANICAL DIAGRAMS
M702	MECHANICAL DIAGRAMS
м703	MECHANICAL DIAGRAMS
М800	TEMPERATURE CONTROLS
M801	TEMPERATURE CONTROLS

SYMBOL	DESCRIPTION
1	NEW WORK KEY NOTE NO. 1
1	DEMOLITION KEY NOTE NO. 1
<u>EF-1</u>	EQUIPMENT TAG
S-1 10x10 100-2	AIR TERMINAL TAG:  S = SUPPLY R = RETURN  IE: DIFFUSER TYPE = S-1 NECK SIZE = 10x10 CFM = 100 (TYPICAL FOR 2)
	EXISTING DEVICES OR EQUIPMENT
	NEW OR MODIFIED DEVICES OR EQUIPMENT
////	EXISTING SYSTEM COMPONENT TO BE REMOVED
<u>~</u>	POINT OF NEW CONNECTION
	SECTION NO. 4  4  M5.2  SHEET M5.2 ON WHICH SECTION DRAWN
	SECTION NO. 6
6 M5.2	SECTION  SCALE: $1/4" = 1' - 0"$
	SHEET M5.2 ON WHICH SECTION IS CUT (ENLARGED PARTIAL PLAN SIMILAR)
	YSTEM RISER S: SANITARY ESIGNATION D: DOMESTIC WATER H: HVAC PIPING SP: STAIRWELL PRESSURIZATION V: VENT RISER NUMBER E: EXHAUST



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