	SYMBOLS										
SYMBOL	DESCRIPTION										
S	SANITARY PIPING BELOW GRADE										
— — S— —	SANITARY PIPING ABOVE GRADE										
<u> </u>	VENT PIPING										
	COLD WATER PIPING										
	HOT WATER PIPING										
— M—	SHUT-OFF VALVE										
— N —	CHECK VALVE										
	PRESSURE REDUCING VALVE										
<u>ሉ</u>	VALVE IN VERTICAL										
c—	PIPE DROP, RISE OR DOWN										
ი	PIPE CONNECTION, TOP										
	PIPE CONNECTION, BOTTOM										
0	PIPE UP										
œ—	"P" TRAP										
ı j	CLEANOUT										
0	CLEANOUT DECK PLATE										
E	CAPPED OUTLET										
+	DIELECTRIC UNION										
	VENT THROUGH ROOF										
	FLOOR DRAIN, AREA DRAIN										
- - ,	HOSE BIBB										
0	WALL HYDRANT VACUUM BREAKER ASSEMBLY										
ΫΫΒ											
<u> </u>	THERMOMETER										
Ŷ	PRESSURE GAUGE W/VALVE										
-BFP-	BACKFLOW PREVENTER										
D	FLOOR, AREA DRAIN (RISER)										
(− −	FRESH AIR INLET (FAI)										
—M	METER										
	DIRECTION OF FLOW										
<u> </u>	PIPE BREAK										
*	EQUIPMENT DESIGNATION										
— — FAI— —	FRESH AIR INLET										
IW	INDIRECT WASTE PIPING										
¢	ANGLE VALVE										
选	OS & Y VALVE										
ķ	OS & Y VALVE IN VERTICAL										
	HOUSE TRAP										
_ P	CONCENTRIC REDUCER										
— \y —	STRAINER Y-TYPE										
	WATERTIGHT PIPE SLEEVE, BEAM PENETRATION										

ŀ	ABBREVIATIONS
SYMBOL	DESCRIPTION
ARCH	ARCHITECTURAL
BFP	BACKFLOW PREVENTER
BLDG	BUILDING
CLG	CEILING
CO	CLEANOUT
CODP	CLEANOUT DECK PLATE
COWP	CLEANOUT WALL PLATE
CONN	CONNECTION
CONT	CONTINUATION
CW	DOMESTIC COLD WATER
DCV	DOUBLE CHECK VALVE
DET	DETAIL
DFU	DRAINAGE FIXTURE UNIT
DIA	DIAMETER
DIM	DIMENSION
DN	DOWN
DR	DRAIN
DWG	DRAWING
EA	EACH
EL	ELEVATION
EQ	EQUAL
EWH	ELECTRIC WATER HEATER
FAI	FRESH AIR INLET
FCO	FLOOR CLEANOUT
FD	FLOOR DRAIN
FS	FLOOR SINK
F.F.	FINISH FLOOR
FL	FLOOR
GAL	GALLON
GPM	GALLON PER MINUTE
HB HW	HOSE BIBB DOMESTIC HOT WATER
I.E.	INVERT ELEVATION
IW	INDIRECT WASTE
MAX	MAXIMUM
MECH	MECHANICAL
MIN	MINIMUM
NC	NORMALLY CLOSED
NO	NORMALLY OPEN
NTS	NOT TO SCALE
RPZ	REDUCED PRESSURE ZONE
S	SANITARY WASTE
SF	SQUARE FEET
ST	STORM DRAINAGE
TP	TRAP PRIMER
TYP	TYPICAL
V	VENT
UON	UNLESS OTHERWISE NOTED
VIF	VERIFY IN FIELD
VLV	VALVE
VTR	VENT THROUGH ROOF
W	WASTE
W/	WITH
WC	WATER CLOSET
WCO	
W/O	WITHOUT WALL HYDRANT
WH WHA	WALL HYDRANT WATER HAMMER ARRESTOR
VVI 1/~\	

GE	ΞN	Е

3. COORDINATE PLUMBING SYSTEMS WITH WORK OF ALL OTHER TRADES PRIOR TO ANY FABRICATION OR INSTALLATION. PROVIDE ALL FITTINGS. OFFSETS. AND TRANSITIONS AS REQUIRED FOR A COMPLETE WORKABLE INSTALLATION.

5. PRIOR TO BURYING ANY PIPING, PIPES MUST BE INSPECTED BY THE ENGINEER.

6. ANY PIPE THAT PASSES UNDER A FOOTING SHALL BE PROVIDED WITH A RELIEVING ARCH.

7. ALL EQUIPMENT SHALL BE INSTALLED IN STRICT ACCORDANCE WITH THE EQUIPMENT MANUFACTURER'S RECOMMENDATIONS AND APPLICABLE CODES. PROVIDE ALL FITTINGS, TRANSITIONS, VALVES, AND OTHER DEVICES REQUIRED FOR A COMPLETE WORKABLE INSTALLATION.

9. THE CONTRACTOR SHALL VISIT THE JOB SITE TO DETERMINE EXISTING CONDITIONS, BECOME FULLY FAMILIAR WITH PLUMBING INSTALLATION, COMPARE SAME WITH DRAWINGS AND SPECIFICATIONS AND SATISFY HIMSELF OF ALL CONDITIONS PRIOR TO SUBMISSION OF A BID PROPOSAL. SUBMISSION OF A COST PROPOSAL (BID) WILL BE JUDGED AS EVIDENCE THAT SITE EXAMINATION HAS BEEN MADE. CLAIMS FOR EXTRA COSTS FOR LABOR, EQUIPMENT, OR MATERIALS REQUIRED, OR FOR DIFFICULTIES ENCOUNTERED WHICH COULD HAVE BEEN FORESEEN HAD SUCH EXAMINATION BEEN MADE WILL NOT BE RECOGNIZED.

T

NOTES:

ITE TYPE Μ

TYPE RPZ

> ITE TYPE PRV

TYPE HBE

ITEM TYPE | EWH

> NOTES: 1. CON WITH EI

DRAWN BY: FR

DUTY

MEDIUM

GRATE OR STRAINER

MATERIAL CAST IRON

TOP COVER

DUCO CAST | 12" ROUND |

IRON

ITEM

TYPE NO.

FD

NOTES:

DESCRIPTION

FLOOR DRAIN

1. PROVIDE W/ TRAP SEAL DEVICE ZURN MODEL # Z1072

34 2 23

DESIGNED BY: ER CHECKED BY: DESIGN LEAD: DEEPAK KANDRA, PE SECTION MANAGER: **REVISIONS/DESCRIPTION** APPR'D. O. DATE

DRAIN SCHEDULE

MANUFACTURER NO. BODY MATERIAL

Z505

BASIS OF DESIGN MODEL

ZURN

All inquiries regarding this drawing(s) or project should be made to NYC Environmental Protection, Bureau of Engineering Design and Construction.

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ERAL NOTES

1. ALL MATERIALS AND WORKMANSHIP SHALL CONFORM TO 2020 NYS PLUMBING CODE AND APPLICABLE LOCAL CODES AND REGULATIONS.

2. DRAWINGS ARE DIAGRAMMATIC AND INDICATE GENERAL ARRANGEMENT OF SYSTEMS AND WORK INCLUDED. FOLLOW DRAWINGS IN LAYING OUT WORK AND CHECK DRAWINGS OF OTHER TRADES RELATING TO WORK TO VERIFY SPACE IN WHICH WORK WILL BE INSTALLED. MAINTAIN HEADROOM AND SPACE CONDITIONS AT ALL TIMES.

4. FOR EXACT LOCATION OF PLUMBING FIXTURES REFER TO ARCHITECTURAL DRAWINGS AND DETAILS.

8. MAINTENANCE LABEL SHALL BE AFFIXED TO ALL PLUMBING EQUIPMENT AND A MAINTENANCE MANUAL SHALL BE PROVIDED TO OWNER.

10. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL NECESSARY PERMITS INCLUDING BUT NOT LIMITED TO ENTERING MANHOLES, USE OF WATER FROM LOW PRESSURE HYDRANTS, DEMOLITION AND NEW WORK, ETC. PRIOR TO COMMENCE OF WORK.

ITEM TYPE NO. 1	DESCRIPTION	CW		TEMPERED				
TYPE NO. 1 1	DESCRIPTION							
1	DESCRIPTION		TEMPERED WATER	WATER TEMPERATU RE	FLOW RATE (GPM)	MANUFACTURER	MODEL	NOTES
ES EMER	MERGENCY SHOWER AND EYE/FACE WASH UNIT	-	1 1/4"	80°F	27	BRADLEY CORPORATION	S19314BB2CFEB	24" DRAIN HEIGHT, 120 VOLT, TOP SUPPLY, 304SS PIPE, 316SS BALL VALVE, ABS PLASTIC SHOWER HEAD WITH SS SHROUD, 304 SS EYE/FACE WASH W/ DUST COVER, 304 SS YOKE, 304SS BOWL AND COVER, 316SS HANDLE AND PULL ROD, GENERAL AREA LIGHT, PROVIDE WITH S19-324DG EMERGENCY SIGNALING SYSTEM
YH 1	NON-FREEZE YARD HYDRANT	1"				ZURN	Z1397XL	

1. COMBINATION EMERGENCY SHOWER AND EYE/FACE WASH UNIT SHALL BE PROVIDED WITH INTEGRAL POWER AND ALARMS. 2. CONTRACTOR SHALL PROCURE COMBINATION EMERGENCY SHOWER AND EYE/FACE WASH UNIT AS A PACKAGED SYSTEM WITH ELECTRIC WATER HEATER, COMPLETE WITH INSULATION ON ALL EXPOSED PIPING.

			W	ATER METER	R SCHEDULE										
EN		DESCRIPTION	MANUFACTURE	MODEL NO.		NOTES									
	NO.		SIZE					NOTE	.0						
	1	DOMESTIC WATER METER 2"	HONEYWELL	EVOQ4-LF	LOW FLOW ELE	ECTRON	/AGNETIC I	METER, S	STAINLESS S	STEEL BODY	/, LCD E				
						E	BACKFLOV	V PREVI	ENTION SC	HEDULE					
		DESCRIPTION	SERVICE		LOCATION			MANULE	ACTURER	MODEL NO.	APPROV				
	NO.	DESCRIPTION	SERVICE		LUCATION		SIZE [IN]	IVIAINUE	ACTURER	WODEL NO.	APPROV				
	1	REDUCED PRESSURE ZONE	DOMESTIC WATER	OUTDOOR H	IEATED ENCLOS	SURE	2	ZURN -	WILKINS	375XL-AG	ASSE				
		·	·												
						PRES	SSURE RE	DUCING	VALVE SC	HEDULE					
E١	1	DESCRIPTION			ATION										
	NO.	DESCRIPTION	SERVICE	LOU	CATION	SIZE [I	[IN] MANUFACTURER		MODEL NO.	APPROVALS					
	1	WATER PRESSURE REDUCING	DOMESTIC COLD	OUTDOC	R HEATED	2	Zl	JRN	600XL-C-H	ASSE	TAPPE				
		VALVE	WATER	ENCL	OSURE				LR						

		i - EQUIF	PMENT SCHEDULE						
ITEM				D	IMENSIO	NS		ELECTR	ROAL
NUMBER	DESCRIPTION	MANUFACTURER	MODEL NO.	LENGTH	WIDTH	HEIGHT	SYSTEM SERVED	Watts	V
1	HEATED BACKFLOW PREVENTER ENCLOSURE	HUBELL	DURAFOLD CUSTOM	1'-9"	7'-4"	3'-4 1/2"	DOMESTIC WATER	1500.0	120
I				1	1				

							WATER HEATER	SCHEDULE	
М					ELECTRICAL				
NO.	EQUIPMENT DESCRIPTION	TEMP. IN [°F]	TEMP. OUT [°F]	POWER [kW]	VOLTAGE [V]	PHASE [PH]	MANUFACTURER	MODEL NO.	
1	ELECTRIC TANKLESS WATER HEATER	40	80	126	480	3	BRADLEY CORPORATION	SNA-126 3/480 D-N4X-D-AL3-SL-FDS-GF- PRS-YSS	PROVIDE WITH DIGIT, CONSTROL SYSTEM FAULT PACAKGE, ASM

PLUMBING - EQUIPMENT SCHEDULE																				
ΓEN							D	DIMENSIONS ELECTRICAL												
I	NUMBER	DESCRIPTION			MANUFACT	IURER	MOD	EL NO.	LENGTH	WIDTH	HEIGHT	SYSTEM S	SERVED	Watts	V	LOCAT	ON		NOTES	
1 HEATED BACKFLOW PREVENTER HUBELL ENCLOSURE					DURAFOL	D CUSTOM	1'-9"	1'-9" 7'-4" 3'-4 1/2" DOMESTIC WATER 1500.0 120 BUILDIN				BUILDING E	XTERIOR		HINGED ENCLOSURE, WITH BY 1500 WATT, 120V SINGLI HEATER					
								WATER HI	EATER	SCHE	DULE]	
10.	EQUIPMEN	DESCRIPTION	TEMP. IN [°F]	temp. Out [°f]		ELECTRICAL VOLTAGE [V]		MANUFACT	URER		MODEL N	10.				N	DTES			
1		NKLESS WATER ATER	40	80	126	480	3	BRADLI CORPORA			NA-126 3 D-AL3-SI PRS-YS	L-FDS-GF-	PROVIDE WITH DIGITAL CONTROL, STACK LIGHT WITH DISTRIBUTED CONSTROL SYSTEM LINK, INTERNAL FUSED DISCONNECT, GROUND FAULT PACAKGE, ASME PRESSURE RELIEF VALVE, STAINLESS STEEL Y-STRAINER							
:																ſ	Environm Protection BEDC/IHD		GRAPHIC SCALES CHECK BEFORE USE	VERTICAL DATUM CONVERSION (ft) +1.28 ⊢BWS
		ROCURE COMBIN IEATER, COMPLE							NIT AS /	A PACK	AGED SY	/STEM					DATE ISSU	BID SET JED: 04/2023	IF SHEET IS LESS THAN 22" 2 IT IS A REDUCED PRINT. SCALE ACCORDINGLY	< 34" 0 NAVD88
							VARNING-IT IS A VIOLATION, OF THE EW YORK STATE EDUCATION LAW, NEW YORK CITY						Y			JOB DESCRIPT	ION	DATE: APRIL 2023 SCALE: AS NOTED		
PORTFOLIO MANAGER						UNLI DIRE	ESS (S)HE IS		THE	ENVIRONMENTAL PROTECTION BUREAU OF ENGINEERING DESIGN & CONSTRUCTION							CAPITAL PROJECT DESCRIPTION NAME			
	Environm	ontol	REN D'ATTILI			THIS	S DOCUMENT ERED, THE A	ENGINEER, TO A I IN ANY WAY. IF LTERING PERSO	N SHALL	-		NGINEERI CE HARDI						Page 449 of 536 DRAWING NO.		
	Protection		UTY DIRECT	,	3E DESIGN		V YORK EDU	HE REQUIREMEN CATION, LAW, SE		CORONA, NEW YORK 11368 www.nyc.gov/dep					ELECTRICAL BUILDING SYMBOL LIST, NOTES, LEGENDS & SCHEDULES			KSEB-P-001.00		

- PC312.
- PC303. 4. RODENT PROOFING AS PER PC304.
- PC305 AND PC306.
- SECTION PC308.

- PC CHAPTER 6.
- SECTION PC605.

PLUMBING CODE NEW YORK STATE NOTES

1. ALL PLUMBING SYSTEMS (SANITARY, WASTE, VENT AND WATER DISTRIBUTION SYSTEMS) AND ASSOCIATED EQUIPMENT SHALL BE INSTALLED, OPERATED AND MAINTAINED IN ACCORDANCE WITH THE REQUIREMENTS OF THE 2020 NEW YORK STATE PLUMBING CODE. POTABLE AND BACKFLOW PREVENTION TESTING SHALL BE IN ACCORDANCE WITH 2020 PCNYS SECTION 608.

2. INSPECTION AND TESTING OF PLUMBING PIPING SYSTEMS SHALL BE IN ACCORDANCE WITH SECTION PC107 AND

3. MATERIALS USED IN PLUMBING SYSTEMS SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF SECTION

5. PROTECTION OF PLUMBING PIPING SYSTEM COMPONENTS AS PER PC 305; PIPE SLEEVES AS PER PC305.4.

6. INSTALLATION OF UNDERGROUND PIPING SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF SECTION

7. TRENCHING, EXCAVATING AND BACKFILL AS PER PC306. 8. VERTICAL AND HORIZONTAL PIPING SHALL BE SUPPORTED IN ACCORDANCE WITH THE REQUIREMENTS OF

9. FLOOD HAZARD RESISTANCE AS PER SECTION PC309.

10. FIXTURES, FAUCETS AND FIXTURE FITTINGS AS PER PC CHAPTER 4.

11. WATER SUPPLY SYSTEMS SHALL BE INSTALLED AND MAINTAINED IN ACCORDANCE WITH THE REQUIREMENTS OF

12. EQUIPMENT CONNECTIONS AND JOINING OF PIPING SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF 13. DISINFECTION OF POTABLE WATER SYSTEM AS PER SECTION PC810.

14. INDIRECT WASTE PIPING AS PER SECTION PC802.

DISPLAY

VALS NOTES THREADED CONNECTIONS, QUARTER-TURN BALL VALVES, AIRGAP ASSEMBLY REQUIRED SE

NOTES PED WITH GAUGE, COPPER SWEAT CONNECTION, 10 PSI TO 125 PSI SPRING RANGE, OUTLET PRESSURE SET TO 80 PSI