	SYMBOLS
SYMBOL	DESCRIPTION
S	SANITARY PIPING BELOW GRADE
<u> </u>	SANITARY PIPING ABOVE GRADE
	VENT PIPING
	COLD WATER PIPING
	HOT WATER PIPING
<b>bd</b>	SHUT-OFF VALVE
ī	CHECK VALVE
k	PRESSURE REDUCING VALVE
 ק	VALVE IN VERTICAL
î	PIPE DROP, RISE OR DOWN
	PIPE CONNECTION, TOP
	PIPE CONNECTION, BOTTOM
0	PIPE UP
œ—	"P" TRAP
~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	CLEANOUT
۰ <b>۲</b>	CLEANOUT DECK PLATE
	CAPPED OUTLET
E	
<b>0</b>	FLOOR DRAIN, AREA DRAIN
<u></u>	
4	PRESSURE GAUGE W/VALVE
-BFP-	
	FLOOR, AREA DRAIN (RISER)
	FRESH AIR INLET (FAI)
M	METER
	DIRECTION OF FLOW
<del>,</del>	PIPE BREAK
*	EQUIPMENT DESIGNATION
— -FAI	FRESH AIR INLET
IW	INDIRECT WASTE PIPING
<b>A</b>	ANGLE VALVE
<b>¢</b>	OS & Y VALVE
<b>ф</b> ——	OS & Y VALVE IN VERTICAL
- <b>00</b>	HOUSE TRAP
	CONCENTRIC REDUCER
- <del>\y</del>	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	
DFU	DRAINAGE FIXTURE UNIT
DIA	DIAMETER
	DIMENSION
DN DR	DOWN
DWG	DRAIN
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	HOSE BIBB
HW	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	
TYP	TYPICAL VENT
UON	UNLESS OTHERWISE NOTED
VIF	VERIFY IN FIELD
VIF	VALVE
VLV	VALVE VENT THROUGH ROOF
W	WASTE
	WITH
WC	WATER CLOSET
WCO	WALL CLEANOUT
W/O	WITHOUT
WH	WALL HYDRANT
WHA	WATER HAMMER ARRESTOR
-	

GRATE OR STRAINER

MATERIAL

CAST IRON

DUTY

MEDIUM

**TOP COVER** 

DUCO CAST 12" ROUND IRON

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.

PROVIDED TO OWNER. 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:

ITEN TYPE Μ

ITEN TYPE RPZ

> ITEN TYPE PRV

TYPE HBE

ITEM TYPE N EWH

NOTES: 1. 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.

ITEM

TYPE NO.

FD

NOTES:

DESCRIPTION

FLOOR DRAIN

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

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DESIGNED BY: DRAWN BY: ER FR CHECKED BY: ARUP DESIGN LEAD: RICHARD POTTER, PE 07/23 ADDENDUM #2 RPRF SECTION MANAGER: **REVISIONS/DESCRIPTION** NO. DATE APPR'D.

**DRAIN SCHEDULE** 

BASIS OF DESIGNMODELMANUFACTURERNO.BODY MATERIAL

Z505

ZURN

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

4 5 6 7	

# RAL 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.

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.

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

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

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

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.

				PLU		URE SCHEDULE	
ITEN	Λ	DECODIDITION	CW		TEMPERED		
TYPE	NO.	DESCRIPTION	INTLET SIZE	TEMPERED WATER	WATER TEMPERATURE	FLOW RATE (GPM)	MANUFAC
ES	1	EMERGENCY SHOWER AND EYE/FACE WASH UNIT	-	1 1/4"	80°F	27	BRAD CORPOF
YH	1	NON-FREEZE YARD HYDRANT	1"	-			ZUF

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 I

				WA	TER METER	R SCHEDULE						
EN	/I NO.	DESCRIPTION	SIZE	MANUFACTURER	MODEL NO.		NOTES		S			
	1	DOMESTIC WATER METER 2'		HONEYWELL	EVOQ4-LF	LOW FLOW EL	ECTRO	MAGNET	IC METER, S	STAINLESS S	STEEL BOD	Y, LCD D
_	BACKFLOW PREVENTION SCHEDULE											
EN	/I NO.	DESCRIPTION	S	SERVICE		LOCATION		SIZE [IN]	] MANUF	ACTURER	MODEL NO.	APPROVA
	1	REDUCED PRESSURE ZONE	DOMES	STIC WATER	OUTDOOR H	IEATED ENCLO	SURE	2	ZURN -	WILKINS	375XL-AG	ASSE
							PRE	SSURE	REDUCING	VALVE SC	HEDULE	
EN	/I NO.	DESCRIPTION	S	BERVICE	LOC	ATION	SIZE [	IN] MAI	NUFACTURER	MODEL NO.	APPROVALS	
	1	WATER PRESSURE REDUCING VALVE		STIC COLD		R HEATED OSURE	2		ZURN	600XL-C-H LR	ASSE	TAPPE
		1	1									

**PLUMBING - EQUIPMENT SCHEDULE** 

ITEM				D	IMENSIO	NS		ELECTF	RICAL	_
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	

							WATER HEATER	SCHEDULE	
N				l	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 I FAULT PACAKGE, ASM

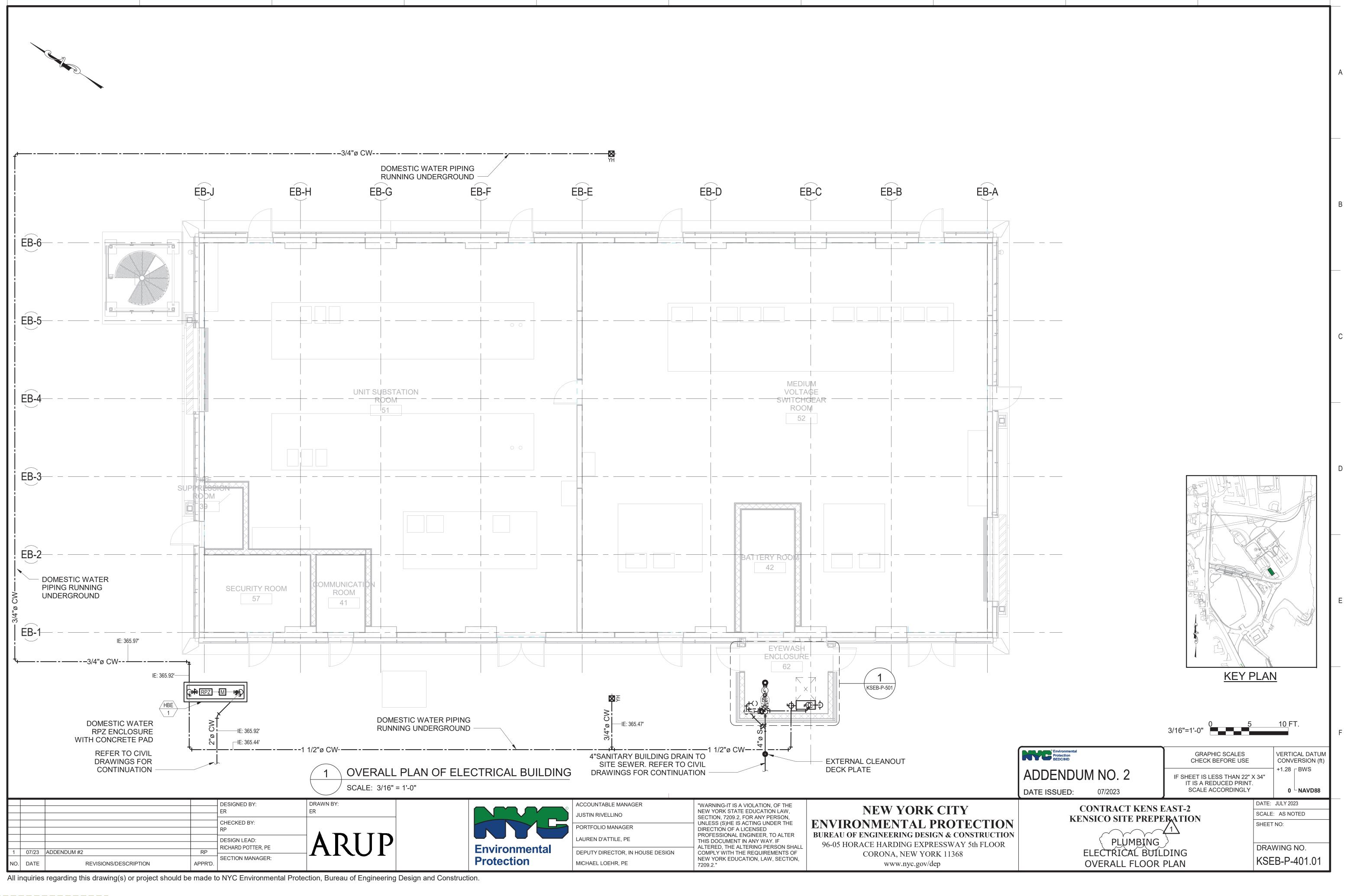
		ACCOUNTABLE MANAGER	"WARNING-IT IS A VIOLATION, OF THE	NEW VODE CITY
	JUSTIN RIVELLINO	NEW YORK STATE EDUCATION LAW, SECTION, 7209.2, FOR ANY PERSON,	NEW YORK CITY	
	PORTFOLIO MANAGER	UNLESS (S)HE IS ACTING UNDER THE DIRECTION OF A LICENSED	<b>ENVIRONMENTAL PROTECT</b>	
	LAUREN D'ATTILE, PE	PROFESSIONAL ENGINEER, TO ALTER	BUREAU OF ENGINEERING DESIGN & CONSTR	
	Environmental	,,,	THIS DOCUMENT IN ANY WAY. IF ALTERED, THE ALTERING PERSON SHALL	96-05 HORACE HARDING EXPRESSWAY 5th FI
		DEPUTY DIRECTOR, IN HOUSE DESIGN	COMPLY WITH THE REQUIREMENTS OF	CORONA, NEW YORK 11368
Protection	MICHAEL LOEHR, PE	NEW YORK EDUCATION, LAW, SECTION, 7209.2."	www.nyc.gov/dep	

- PLUMBING CODE NE
- 1. ALL PLUMBING SYS EQUIPMENT SHALL THE 2020 NEW YOF ACCORDANCE WIT
- 2. INSPECTION AND T PC312.
- 3. MATERIALS USED II PC303. 4. RODENT PROOFING
- 5. PROTECTION OF PL
- 6. INSTALLATION OF U PC305 AND PC306.
- 7. TRENCHING, EXCA 8. VERTICAL AND HOP SECTION PC308.
- 9. FLOOD HAZARD RE
- 10. FIXTURES, FAUCET
- 11. WATER SUPPLY SY PC CHAPTER 6.
- 12. EQUIPMENT CONNI SECTION PC605.
- 13. DISINFECTION OF F
- 14. INDIRECT WASTE F

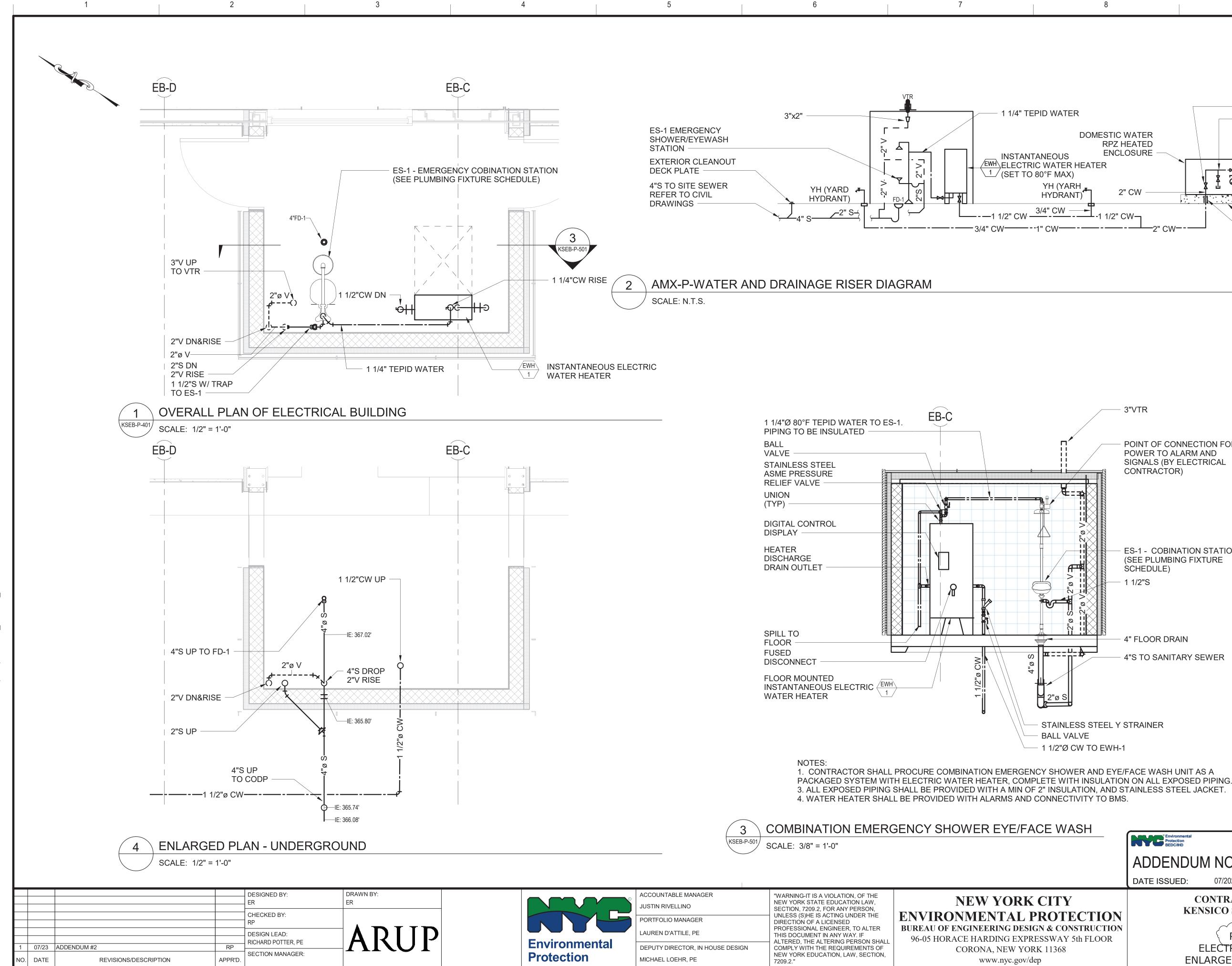
8		9		10					
W YORK S	STATE NOTES								
TEMS (SANITARY, WASTE, VENT AND WATER DISTRIBUTION SYSTEMS) AND ASSOCIATED BE INSTALLED, OPERATED AND MAINTAINED IN ACCORDANCE WITH THE REQUIREMENTS OF RK STATE PLUMBING CODE. POTABLE AND BACKFLOW PREVENTION TESTING SHALL BE IN H 2020 PCNYS SECTION 608.									
ESTING OF	STING OF PLUMBING PIPING SYSTEMS SHALL BE IN ACCORDANCE WITH SECTION PC107 AND								
N PLUMBIN	IG SYSTEMS SHALL BE IN ACC	CORDANCE	WITH THE REQUIRE	MENTS OF SECTION					
G AS PER P	PC304. PIPING SYSTEM COMPONENTS			SASPER PC3054					
	OUND PIPING SHALL BE IN AC				$\vdash$				
	D BACKFILL AS PER PC306. PIPING SHALL BE SUPPORTED	) IN ACCOR	DANCE WITH THE R	EQUIREMENTS OF					
SISTANCE	AS PER SECTION PC309.				В				
_	TURE FITTINGS AS PER PC CH	HAPTER 4.							
	ALL BE INSTALLED AND MAIN		ACCORDANCE WITH	THE REQUIREMENTS OI	F				
ECTIONS A	ND JOINING OF PIPING SHALL	BE IN ACC	ORDANCE WITH THI	E REQUIREMENTS OF					
POTABLE W	ATER SYSTEM AS PER SECT	ION PC810.							
PIPING AS F	PER SECTION PC802.								
					_				
				<u></u>	_				
	MODEL								
DLEY DRATION		316SS BAL	L VALVE, ABS PLAS	TOP SUPPLY, 304SS PIPE TIC SHOWER HEAD WITH	нЦ				
	S19314BB2CFEB	304 SS YO	KE, 304SS BOWL AN	E WASH W/ DUST COVER D COVER, 316SS HANDL	.E				
				EA LIGHT, PROVIDE WITI SIGNALING SYSTEM					
JRN	Z1397XL								
HEATER C	OMPLETE WITH INSULATION		OSED PIPING						
D DISPLAY									
OVALS			TES						
SE THR	EADED CONNECTIONS, QUAF	TER-TURN	BALL VALVES, AIRG	AP ASSEMBLY REQUIRE					
		NOTES							
PED WITH (	GAUGE, COPPER SWEAT CON		0 PSI TO 125 PSI SP	RING RANGE, OUTLET					
	PRESSU	RE SET TO 8	80 PSI						
LOC	CATION		NOTES						
	EXTERIOR DURAFOLD A		INGED ENCLOSURE Y 1500 WATT, 120V S						
			HEATER						
		]							
ITAL CONTF	NOTES ROL, STACK LIGHT WITH DISTI	RIBUTED							
Л LINK, INTE	ERNAL FUSED DISCONNECT, ( SURE RELIEF VALVE, STAINLES	GROUND							
	STRAINER		<b>N</b>						
	Protection BEDC/IHD		GRAPHIC SC/ CHECK BEFOR	E USE CONVERSION					
	ADDENDUM NO.	2	IF SHEET IS LESS TH						
	DATE ISSUED: 07/2023		IT IS A REDUCED SCALE ACCORE		8				
			EAST-2	DATE: JULY 2023 SCALE: AS NOTED	1				
CTION	<b>KENSICO SI</b>	TE PREPH	ERATION }	SHEET NO:	-				
RUCTION FLOOR	$\angle 1 \land \neg \neg PL$	UMBING							
		CAL BUIL	DING	DRAWING NO.					

SYMBOL LIST, NOTES, LEGENDS & SCHEDULES

KSEB-P-001.01



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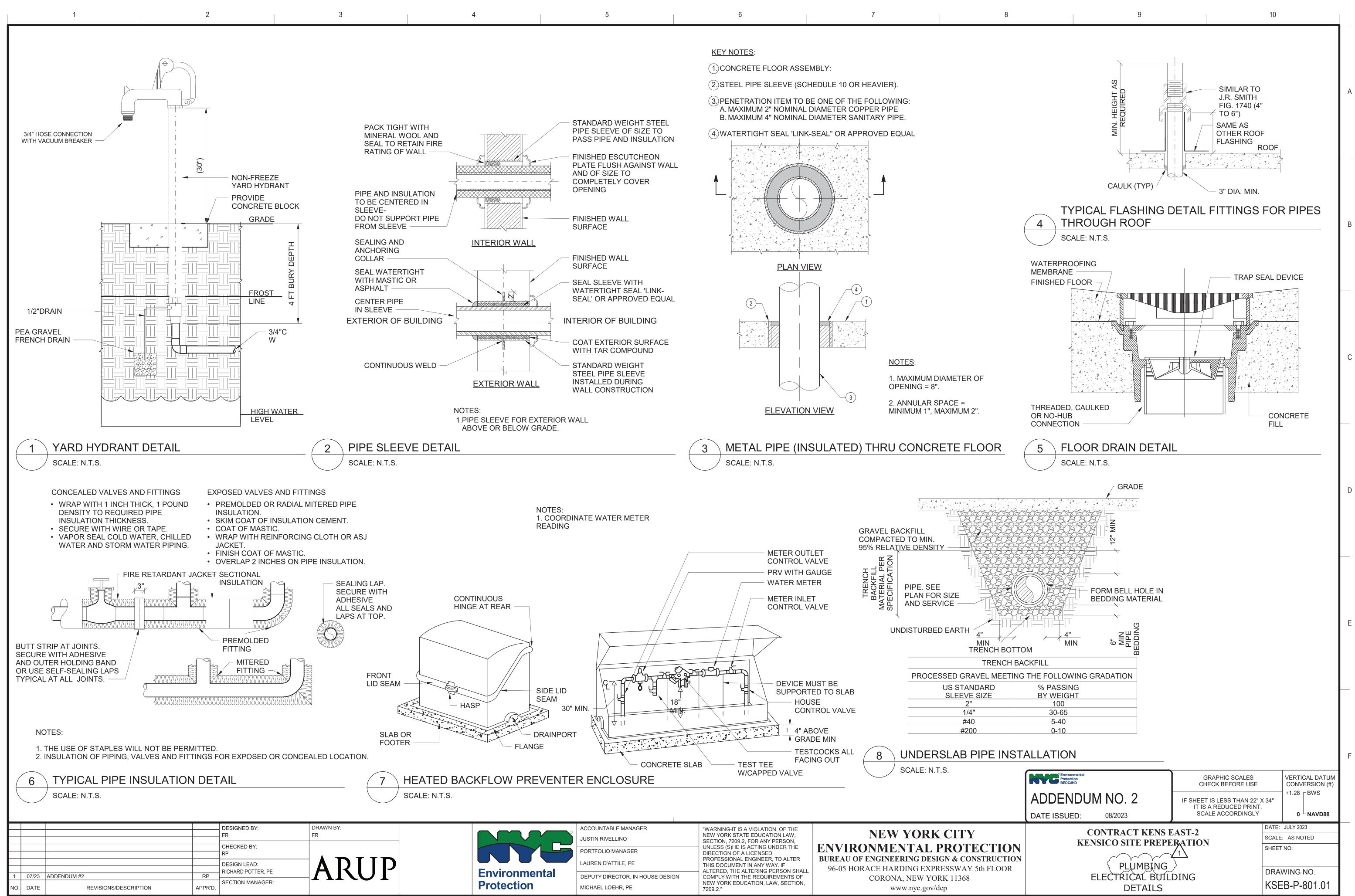
8	9	10
MESTIC WATER RPZ HEATED ENCLOSURE TER 2" CW 1 1/2" CW 2" CW		ETER OUTLET VALVE EST TEE W/CAPPED VALVE RV W/ GAUGE ACKFLOW PREVENTER ATER METER ATER INLET CONTROL VALVE JILDING CONTROL VALVE GRADE 2" DOMESTIC WATER SERVICE - INDIRECT SPILL TO FLOOR - CONCRETE PAD - PROVIDE WATERTIGHT SLEEVE THROUGH SLAB
3"VTR		
POWER TO A SIGNALS (BY CONTRACTO	ELECTRICAL R) ATION STATION	
4" FLOOR DR		

STAINLESS STEEL Y STRAINER

H				
· · ·	Protection BEDC/IHD		VERTICAL DATUM CONVERSION (ft)	
	ADDENDUM NO. 2	IF SHEET IS LESS THAN 22" 2 IT IS A REDUCED PRINT.		+1.28 - BWS
	DATE ISSUED: 07/2023	SCALE ACCORDINGLY		0 <sup>└</sup> NAVD88
	CONTRACT KENS F	DATE: JULY 2023		
	KENSICO SITE PREPE	SCALE: AS NOTED		
<b>CTION</b> RUCTION		SHEET	NO:	
FLOOR	ELECTRICAL BUIL	DRA	WING NO.	
	ENLARGED PLANS &	KSEB-P-501.01		

1/2"=1'-0"

Е



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