

DESIGN INTENT NOTES

IT IS THE INTENT OF THIS PROJECT TO REPLACE THE EXISTING HEATING AND COO STAND-BY POWER GENERATOR SYSTEM, THE ELECTRICAL DISTRIBUTION EQUIPMENT, I LIGHTING SYSTEMS AND FIRE ALARM SYSTEMS. THESE SYSTEMS SHALL BE REPLACED IN TO THIS WORK SHALL TAKE PLACE IN A PHASED APPROACH THAT WILL ALLOW UNINTERRUPTE COOLING AND POWER TO ALL THE BUILDINGS AND EQUIPMENT. THE CONTRACT DOCUMEN THE MINIMUM PHASING REQUIREMENTS TO CONVEY THE DESIGN INTENT. THE CONTRACT RESPONSIBLE FOR FINAL PHASING OF WORK INCLUDING ALL NECESSARY LABOR AND TEMPORARY WORK, PIPING FEEDERS AND EQUIPMENT IN ORDER TO PROPERLY PHASE THE MEET THE DESIGN INTENT.

THE SCOPE OF WORK SHALL INCLUDE TEMPORARY SERVICES. THE CONTRACTOR SHALL TEMPORARY BOILERS AND CHILLERS FOR AS LONG AS IS NECESSARY IN ORDER TEMPORARY HOT WATER AND CHILLED WATER. THE CONTRACTOR SHALL PROVIDE POWER FOR EQUIPMENT INCLUDING GENERATORS FOR POWER AND ALL FUEL REQUIRE TEMPORARY PIPING CONNECTIONS AND MODIFICATIONS TO EXISTING PIPING SYSTEMS TEMPORARY CONTROLS AND MODIFICATIONS TO EXISTING CONTROLS IN ORDER TO FAC INTEGRATION OF TEMPORARY AND NEW SYSTEMS SO THAT THE BUILDINGS ARE CONTINUA WITH HOT WATER AND OR CHILLED WATER. ALL TEMPORARY EQUIPMENT SHALL BE SIZE EXISTING EQUIPMENT INCLUDING FLOW RATES, PRESSURE REQUIREMENTS, ETC. SUCH TH BUILDING OPERATION IS MAINTAINED.

IN GENERAL, IT WILL BE NECESSARY TO DEMOLISH ALL ABANDONED MECHANICAL, PLU ELECTRICAL EQUIPMENT PIPING AND CONDUITS IN THE MAIN PLANT AND IN THE ORIGINA MAKE SPACE FOR NEW EQUIPMENT. THE INTENT IS TO INSTALL THE NEW CHILLER AND BO AS WELL THE NEW PRIMARY/SECONDARY PIPING SYSTEMS AS WELL AS ALL NECESSARY SU SUCH AS PUMPS, COOLING TOWERS, BREECHING, COMBUSTION AIR DAMPERS, FUEL OIL PIPING, OIL PUMPS, POWER, AND CONTROLS SO THAT THE NEW PLANT IS FULLY FUNCTIO REMOVAL OF THE TEMPORARY HEATING AND COOLING EQUIPMENT. THE EXISTING BUI SECONDARY PUMPS SHALL REMAIN CONNECTED TO EXISTING PIPING AND HEATING/COOLING PLANT UNTIL SUCH TIME AS THE PLANT IS OPERATIONAL.

WHEN THE NEW HEATING/COOLING PLANT IS OPERATIONAL INCLUDING SECONDARY CONTROLS, EACH BUILDING'S SECONDARY PIPING SYSTEM CAN BE CONNECTED TO SECONDARY PIPING SYSTEMS AND PUMP SETS SO AS TO CAUSE THE MINIMUM AMOUNT DOWN TIME FOR EACH BUILDING. WHEN ALL BUILDINGS ARE CONNECTED TO THEIR NEW PUMP SETS AND THE NEW PLANT, DEMOLITION OF THE REMAINING EXISTING PUMPS, CONTROLS CAN BEGIN.

WHEN DEMOLITION OF THE EXISTING ABANDONED EQUIPMENT IS COMPLETE THE NEW WATER HEATING SYSTEM SHALL BE CONSTRUCTED ALONG WITH MODIFICATIONS TO TH WATER, SANITARY, STORM AND GAS SYSTEMS. WHEN THE NEW DOMESTIC WATER HEAT HAS BEEN CONSTRUCTED AND IS FULLY OPERATIONAL AND CONNECTED TO TH DISTRIBUTION SYSTEM, THE EXISTING HEATING SYSTEM MAY BE DEMOLISHED. IN SUPPORT OF THE PROJECT'S MECHANICAL, PLUMBING AND ELECTRICAL WORK THERE I

AMOUNT OF GENERAL CONSTRUCTION THAT IS REQUIRED. THIS WORK SHALL BE NECESSARY IN ORDER TO FACILITATE THE CONSTRUCTION OF NEW MECHANICAL, PLU ELECTRICAL EQUIPMENT AND SYSTEMS. THIS SHALL INCLUDE SITE WORK AND RESTORAT AS CUTTING, PATCHING, PAINTING, CONCRETE, FIRE STOPPING, DOORS AND HARDWARE.

	SYMBOL & AB	BREVIAT	IONS	G	ENERAL NOTES
OLING PLANT, , PLANT AREA	SYMBOL			1.	THE CONTRACT DRAWIN PLUMBING SYSTEMS. IF
TOTALITY. TED HEATING /		(E) OR EX.	NEW WORK	-	THE PLUMBING CONTRAC SHALL BE SUBMITTED TO SHALL BE MADE WITHO
TOR SHALL BE ID MATERIALS,		DEM.	EXISTING TO BE REMOVED		EQUIPMENT AND PIPINO CLEARANCES FOR ENTR EQUIPMENT LOCATIONS N
HE WORK AND		CW	COLD WATER		MADE AT NO EXTRA COST
ALL PROCURE TO PROVIDE TEMPORARY		HWR	HOT WATER RECIRCULATION	_	OF THE PREVAILING NEW BETWEEN THE CONTRAC
RED. PROVIDE MS. PROVIDE ACILITATE THE	V	V	VENT	3.	THE PLUMBING CONTRAC
JALLY SERVED ZED TO MATCH	G PD	G PD	GAS LINES PUMP DISCHARGE	4.	CONNECTIONS TO EXISTI
	S	S	SANITARY LINES		INFORMATION AVAILABLE ELEVATIONS, AND SIZES (PLUMBING SERVICES AS IN
lumbing, and Nal plant to Boiler plant		LDR		5.	PRIOR TO FABRICATION, T ON JOB SITE, AND COORD
SUNDRY ITEMS IL PIPING, GAS IONAL BEFORE	FOS FOR	FOS	FUEL OIL SUPPLY FUEL OIL RETURN	6.	THE CONTRACTS SHALL
UILDINGS AND TEMPORARY	R .	-	3-WAY VALVE		EQUIPMENT, PIPING, ELE CONDUITS, DIFFUSERS, GI
Y PUMPS AND	r de la companya de l	-	BUTTERFLY VALVE 2-WAY VALVE	7.	PROVIDE DIELECTRIC FITT
TO THE NEW NT OF SYSTEM V SECONDARY		-	PLUG VALVE	8.	PROVIDE SHUTOFF VALV RECIRCULATION, FUEL OIL
, POWER AND	T XO	-	SOLENOID VALVE	9.	ALL WORK SHALL BE PRO A ONE YEAR WARRANTY F
EW DOMESTIC THE DOMESTIC		-	GATE VALVE GLOBE VALVE	10.	PROVIDE ALL PIPE OPE PENETRATING FIRE RATED BE SEALED WITH FIRE STO
THE EXISTING		-	CHECK VALVE		DRILLING WHENEVER PC DIAMETER OF THE SERVIC
E IS A CERTAIN E PHASED AS	T T	-	OS&Y GATE VALVE	11.	THE PLUMBING CONTRACT ACCESS PANELS, AND F
TION AS WELL	• Q	-	CIRCUIT SETTER	-	BE REPLACED OR OPENE CONTRACTOR TO REMOV
	⊢ ↓	-	MANUAL AIR VENT		AS REQUIRED TO EXECUT MAINTAIN THE EXISTING
		-	T&P RELIEF VALVE PRESSURE REDUCING VALVE	-	EXISTING BUILDING IN COORDINATE ANY SYSTEM TO SHUT DOWNS.
		-	TEE DOWN	13.	CAPPING AND PLUGGING
	C	-	ELBOW DOWN	14.	REMOVE ALL PLUMBING P
	 	-	ELBOW UP		ACCESSIBLE.
	E	-	PIPE CAP		FURNISHED BY THE PLUM UNLESS OTHERWISE NO CONTRACTOR FOR PLUME
		-		16.	THE CONTRACTOR SHAL
		-	STRAINER	- 17	OSHA.
		-	FLEXIBLE CONNECTION		THAT IS DISTURBED OF INSTALLATION OF HANGE
	Ø	-	FLOW ARROW PRESSURE GAGE		DO NOT RUN PIPING OVE
		-	PUMP		COORDINATE WITH ELECT
		-		E(QUIPMENT NOT
		RD	ROOF DRAIN	- 1.	BOILER FUEL OIL TRANSFE GPH AT 25 PSIG FOR #2 FU
		FD	FLOOR DRAIN	_	SET, DUPLEX BASKET-TYP ON THE PLANS AS WELL A MOUNTED AT CONTROL PA
	ılı 	- AFF		_	STRAINERS; FUSIBLE LINK FLOODED BASIN FLOAT SV FILLED CMPL PRESSURE (
	_	AHC	ABOVE HUNG CEILING	-	ALARM PACKAGE INCLUDI RESET/SILENCER.
	_	BFP	BACK FLOW PREVENTOR	2.	HOT WATER MIXING VALVE
		FAI RPZ	REDUCED PRESSURE ZONE - BFP	-	BACNET OUTPUT. VALVE A BUILDING WIDE TEMPERIN
		RP	RECIRCULATION PUMP	3.	DOMESTIC HOT WATER RE MODEL 1060-1.5D, 100% LE
	_	DCV	DOUBLE CHECK VALVE - BFP	4.	FEET HEAD. FURNISH DISC DOMESTIC WATER EXPANS
		Түр	TYPICAL	-	TANK MODEL ST-446C. 128 AND 236 POUNDS.
	COMMISSION	ING SCO	PENOTES	5.	DOMESTIC HOT WATER HE 120 GALLON CAPACITY, RA 120//10/60 Hz SINGLE POL
	1. REFER TO SPECIFIC FOR COMMISSIONIN	ATION SECTION G OF PLUMBING	19113 FOR GENERAL CX REQUIREMENTS, AND SECTION 220800 SYSTEMS. THE OWNER SHALL HIRE A THIRD PARTY		CAPABILITY, 34½"Øx80"HIG SWITCH.
	2. PRIOR TO COMMISS	ENT. IONING, THE COI	NTRACTOR SHALL PROVIDE A STATEMENT CONFIRMING THAT	6.	EMERGENCY GENERATOR GROUND 15,000 GALLON H
	ALL SYSTEMS ARE F BELOW HAVE BEEN ENGINEER REVIEW A	FULLY OPERATIO SUCCESSFULLY AND APPROVAL.	NAL AND ALL PRE-FUNCTIONAL TESTS AND CHECKS LISTED COMPLETED. SUBMIT A COPY OF ALL CHECK SHEETS FOR		CHAMBER. CARBON STEEL YELLOW EPOXY, 24" CATW SPECIFICATION SECTION 2
	3. PRE-FUNCTIONAL TE	ESTS AND CHEC	(S (PREREQUISITES FOR COMMISSIONING):	7.	FLOOR DRAIN (FD-1): SHAL FLANGE, SEDIMENT BUCK
	THE CONTRACTOR • ENSURE THAT A COMMISSIONING	R SHALL PERFOR ALL SUBMITTALS G AGENT	M THE FOLLOWING INCLUDING BUT NOT LIMITED TO - ARE COMPLETED AND APPROVED BY ENGINEER AND	8	GRATE WITH SEDIMENT ST
	CERTIFY THAT A BEEN INSTALLE COMPLETE ALL	ALL SYSTEMS TO D, CALIBRATED A	BE COMMISSIONED, SUBSYSTEMS AND EQUIPMENT HAVE AND STARTED; ACCORDING TO THE CONTRACT DOCUMENTS		OF FUEL LINES, 5XL2-CR/C 208V/1Ø/60Hz, 5 WATTS/LF
	COMPLETE: ALL CERTIFY THAT A COMPLETED AN	ALL RELEVANT IN ID CALIBRATED; /	ISTRUMENTATION AND CONTROL SYSTEMS HAVE BEEN ARE OPERATING ACCORDING TO CONTRACT DOCUMENTS; AND		POINT HEAT-TRACING CON FAULT PROTECTION AND F
	SET SYSTEMS, S NORMAL SHUT [SET POINTS HAV SUBSYSTEMS AN DOWN, NORMAL	'E BEEN RECORDED. ID EQUIPMENT TO OPERATING MODE TO BE TESTED (E.G., AUTO POSITION, NORMAL MANUAL POSITION, AND ALARM		SECTION OF PIPING. THE C
	CONDITIONS). • VERIFY EACH O REFER TO THE S	F THE SYSTEMS SEQUENCE OF O	ONCE IT IS OPERATING IN A STEADY STATE CONDITION. PERATIONS.		PER MANUFACTURER'S SF PROVIDE AN ALARM SIGNA SYSTEM.
	 INSPECT AND VI CHECKLISTS. SI OPERATING CY(ERIFY THE POSIT GN OFF EACH IT CLE THAT APPLIE	TION OF EACH DEVICE AND INTERLOCK IDENTIFIED ON EM AS ACCEPTABLE OR FAILED. REPEAT THIS TEST FOR EACH ES TO SYSTEM BEING TESTED.		 PROVIDE THE FOLLOWING ADJUSTABLE TEMP POWER AND END S
	SIMULATE CONI INTERLOCKS WI	DITIONS REQUIR	ED IN ORDER TO TEST ALL SAFETY CUTOUTS, ALARMS AND SYSTEMS DURING EACH MODE OF OPERATION WHEN		 SPLICE AND "TEE" F "ELECTRONIC TRAC GLASS CLOTH ADH
	 ANNOTATE CHE VERIFY EQUIPM 	CKLIST OR DATA	SHEET WHEN A DEFICIENCY IS OBSERVED. WITH MONITORING AND CONTROL SYSTEM.		ALL MOUNTING BR CONTROL PANEL IN
	3. AFTER PRE-FUNCTION TESTING IN THE PRE	ONAL TESTING IS	COMPLETE, THE CONTRACTOR SHALL PERFORM FUNCTIONAL COMMISSIONING AGENT FOR THE SYSTEMS LISTED BELOW IN		ALL NEW EXPOSED FUEL (
	ACCORDANCE WITH O HOT WATER HE O HOT WATER CIR	I THE COMMISSIC ATERS RCULATION PUMF	DNING SPECIFICATIONS:	9.	FUEL OIL FILTRATION AND SYSTEMS, MODEL FMEZ12 TO THE CONCRETE EQUIP
	 FUEL OIL PUMPS GENERATOR FU 	S & SYSTEM JEL SYSTEM / AL/	ARMS / FUEL FILTRATION SYSTEM	10.	INSTRUCTIONS. WATER METER: SHALL BE
	4. AFTER FUNCTIONAL RESULTS AND DOCU CORRECTION OF AL	. TESTING, THE C JMENT ANY DEFI L DEFICIENCIES.	OMMISSIONING AGENT (CX) SHALL ISSUE A REPORT OF TEST CIENCIES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE THE CONTRACTOR SHALL SEND A WRITTEN RESPONSE TO		METER SHALL BE LINE SIZ
	THE OWNER/ENGINE SHALL NOT BE CONS THE CX AGENT	EER/CX AGENT T	HAT AN OPEN ISSUE HAS BEEN RECTIFIED. THE DEFICIENCY /ED UNTIL THE APPROPRIATE RETESTING IS PERFORMED WITH	11.	WATER HAMMER ARRESTO COPPER BODY, 150 PSI WO
	5. PRIOR TO TURNOVE		PTANCE), A COMPLETE AND SUCCESSFUL DEMONSTRATION	12.	COOLING TOWER BACKFLO ZONE (LEAD FREE) BACKF
		E PRESENCE OF	THE OWNERS REPRESENTATIVE AND COMMISSIONING AGENT.		(CONSTANT) AND 140°F (IN FREE CAST COPPER SILIC
	 IN ADDITION TO THE FOLLOWING: PARTICIPATE IN 	ABOVE, THE CO	NTRACTOR SHALL ALSO BE RESPONSIBLE FOR THE ORIENTATION AND INSPECTION MEETING.	13.	FUEL OIL AUTOMATIC FUS
	 PARTICIPATE IN EXECUTE INSTA SUPPORT FUNC 	NERVICEDURES N ALLATION PRE-FU TIONAL TESTING	NEETING FOR TESTING. INCTIONAL CHECK SHEETS. & WITH QUALIFIED TECHNICIANS.	14.	WATER SOFTENER SYSTE
	 RESPOND TO C PARTICIPATE IN NOTIFY COMMIS 	X DEFICIENCIES FINAL REVIEW A	IN ACCORDANCE WITH OWNER SCHEDULE. AT ACCEPTANCE MEETING. AT MINIMUM TWO WEEKS IN ADVANCE OF ANY TESTING.		GPM. MAX CAPACITY OF 30 120V/1pH/60Hz. CONTRACT CONFIRM EQUIPMENT PER
					PROVIDE WATER TEST RE
	I			1	

6		County
NGS INDICATE THE EXTENT AND GENERAL ARRANGEMENTS OF THE ANY DEPARTURES FROM THE DRAWINGS ARE DEEMED NECESSARY BY CTOR, DETAILS OF SUCH DEPARTURES AND THE REASONS THEREFORE THE OWNER AND ENGINEER FOR APPROVAL. NO SUCH DEPARTURES OUT PRIOR WRITTEN APPROVAL OF THE OWNER AND ENGINEER. G ARRANGEMENTS SHALL PROVIDE ADEQUATE AND ACCEPTABLE RY, SERVICING, AND MAINTENANCE. ANY CHANGES TO PIPING AND NECESSARY TO AVOID INTERFERENCE WITH OTHER TRADES SHALL BE	Facilities Manage Robert H. Gruffi, P.E Director Facilities M Dr. Robert L. Yeager 50 Sanatorium Building A, 2nd Pomona, NY	gement E., LEED AP lanagement Health Center n Road d Floor
ALL BE PERFORMED IN STRICT ACCORDANCE WITH THE LATEST EDITION / YORK STATE PLUMBING AND BUILDING CODES. IN CASE OF CONFLICT CT DOCUMENTS AND A GOVERNING CODE OR ORDINANCE, THE MORE HALL APPLY.	MEP ENGINEER OLA CON	nsulting Engineers 50 Broadway
THE CONTRACTOR SHALL VERIFY ALL MEASUREMENTS AND CONDITIONS THIS CONTRACTOR SHALL VERIFY ALL MEASUREMENTS AND CONDITIONS	Haw 8 Ne CONSULTING ENGINEERS	vthorne, NY 10532 914.747.2800 West 38th Street, Suite 501 w York, NY 10018 646.849.4110 olace.com
SUBMIT FOR REVIEW AND APPROVAL A COMPOSITE SHOP DRAWING, /ITH ALL OTHER TRADES INDICATING ALL DUCTWORK, MECHANICAL ECTRICAL EQUIPMENT, PLUMBING PIPING AND EQUIPMENT, LIGHTS, RILLES AND FIRE ALARM DEVICES. FINGS OR COUPLINGS WHEREVER DISSIMILAR METALS ARE JOINED.	STRUCTURAL ENGINEER BROOKER ENG	INEERING, PLLC
ES AT ALL EQUIPMENT ON COLD WATER, HOT WATER, HOT WATER L, AND GAS SUPPLY PIPES.	74 Lafayette Avenue Suffern, NY 1	e, Suite 501 0901
ENINGS THROUGH PARTITIONS WITH PIPE SLEEVES. FOR PIPES	brooke	845.357.4411 erengineering.com
D PARTITIONS, THE SPACE BETWEEN THE PIPE AND THE SLEEVE SHALL OPPING MATERIAL. PENETRATIONS FOR PIPING SHALL BE MADE BY CORE OSSIBLE. SLEEVE FOR SERVICE PIPE SHALL BE TWO (2) TIMES THE CE PIPE.		ъТ
TOR SHALL PROVIDE ALL CUTTING, PATCHING, CORE DRILLING, PAINTING, FINAL RESTORATION REQUIRED TO FACILITATE THE INSTALLATION OF QUIPMENT, INCLUDING ABOVE CEILINGS AND IN SHAFTS THAT WILL NOT ED UNDER ANY OTHER SCOPE OF WORK RELATED TO THIS PROJECT. (E AND REPLACE CEILINGS, AND OPEN AND PATCH SHAFTS AND WALLS, TE THE PLUMBING WORK.	Quality Environmental Solution 1376 Route 9, Wa Falls, NY 12	s & Technologies, Inc. ppingers 590
DOMESTIC WATER, GAS, AND FUEL OIL SERVICES WHICH SERVE THE OPERATION DURING CONSTRUCTION. THE CONTRACTOR SHALL M SHUTDOWNS WITH THE OWNER AND GET APPROVAL IN WRITING PRIOR	ESTIMATING	845.298.6031 qualityenv.com
PIPING NO LONGER USED OR CURRENTLY ABANDONED WHEREVER IT IS	DAA CONSULTING SOLU	CK
AND DISCONNECT SWITCHES FOR PLUMBING EQUIPMENT SHALL BE IBING CONTRACTOR AND INSTALLED BY THE ELECTRICAL CONTRACTOR, IOTED. DISCONNECT SWITCHES FURNISHED BY THE PLUMBING BING EQUIPMENT SHALL BE HEAVY DUTY TYPE.	2 William St, su White Plains, N	ite 202 ⁄ 10601
L BE RESPONSIBLE FOR PROVIDING TEMPORARY VENTILATION AND DING OR SOLDERING OPERATIONS ARE PERFORMED, AS REQUIRED BY	da	914.686.7102 ackconsulting.com
NG STRUCTURAL COMPONENTS HAVE FIREPROOF MATERIAL, ANY AREA R DAMAGED AS A RESULT OF PLUMBING WORK, INCLUDING THE ERS FOR PIPING OR EQUIPMENT, SHALL BE PATCHED WITH UL AND FM G TO MATCH EXISTING. TER ELECTRICAL EQUIPMENT. MAINTAIN IN 3'-0" CLEARANCE IN FRONT. FRICAL PLANS.		
ES		
ER PUMP SET: SHALL BE POWERFLAME MODEL DPS-5-25, RATED AT 564 JEL OIL, 1/4 HP, 208V/3PH/60Hz. SYSTEM SHALL INCLUDE DUPLEX PUMP PE STRAINERS AND ALL SPECIALTIES AS SHOWN IN THE PIPING DIAGRAM AS H-O-A SWITCH, MOTOR CONTROL CENTER, MOTOR STARTERS ANEL. PROVIDE THE FOLLOWING FACTORY OPTIONS: DUAL OIL & WITH INLET CHECK; LOW OIL FLOW SWITCH W/ DELAY ON MAKE TIMER; WITCH; 2-1/2" LIQUID FILLED DIAL PRESSURE GAUGES; 2-1/2" LIQUID GAUGES; SS BRAIDED FLEXIBLE HOSE; FLOODED BASIN PROTECTION; ING LIGHTS, ALARM BUZZER, RELAYS, AND PUSH-BUTTON		
E: PROVIDE HEAT-TIMER 3-WAY VALVE AND ETV PLATINUM PLUS CNET. PROVIDE 120V, 20A, 1-POLE CIRCUIT. PROVIDE 24VAC POWER EL TO THE 3-WAY VALVE. PROVIDE OPTIONAL SAFETY VALVE AND AND CONTROLS SHALL BE ASSE LISTED TO BE COMPLIANT WITH IG DEVICES FOR DOMESTIC SYSTEMS	KEYPLAN	
E-CIRCULATION PUMP, HWCP-1&2: SHALL BE BASED ON ARMSTRONG EAD FREE, 1.5 HP, 208-1 PHASE-60 HERTZ, 1750 RPM AND 30 GPM @ 50 CONNECT SWITCH.		
<u>SION TANK</u> : SHALL BE BASED ON AMTROL POTABLE WATER EXPANSION 5 PSI MAX. PRESSURE, 53 GALLON STEEL TANK, 19" DIAMETER, 45" HIGH		
EATERS (DHWH-1&2): SHALL BE BASED ON AO SMITH MODEL BTHS-1000A, ATED FOR 882 GPH @ 100 DEG RISE, GAS FIRED, 1000 MBH INPUT, INT ELECTRICAL CONNECTION WITH LOCAL DISCONNECT, BACNET GH. PROVIDE CONDENSATE NEUTRALIZING KIT AND LOCAL DISCONNECT	CAMPUS - KEYPLAN	
R DIESEL TANK: SHALL BE HIGHLAND TANK DOUBLE WALL TYPE I ABOVE HORIZONTAL STORAGE TANK WITH 20% OVERFILL PROTECTION TANK L CONSTRUCTION, 120" UL STYLE SADDLES, FREESTANDING STAIRS WITH VALK WITH HANDRAIL AND FIBERGLASS GRATING. REFER TO 221323 FOR COMPLETE DETAILS AND ACCESSORIES.		
EL BE WADE #W-1210-27 WITH CAST IRON BODY, CAST IRON DRAINAGE ET, FLASHING COLLAR, 4" PIPE SIZE, 12" ROUND HEAVY DUTY CAST IRON TRAINER.		
CT TRACE SELF-REGULATING HEATING CABLE SYSTEM. RATED AT F, 30 AMP PER CIRCUIT. LOCATE RTD ON AN ABOVE-GRADE SECTION OF TER CABLE PLACEMENT. PROVIDE THERMOSTAT - MODEL OTSF-1 SINGLE NTROL SYSTEM WITH ADJUSTABLE SET POINTS, INTEGRATED GROUND POWER CONTROL PANEL MODEL # ECW-GF. XTEND THE ENTIRE LENGTH OF PIPE AND BE LOCATED ON BOTTOM CONTRACTOR SHALL PROVIDE THE NUMBER OF CIRCUITS REQUIRED FOR		
QUIRED TO PROPERLY TRACE EACH SEGMENT OF PIPE. LIMIT LENGTH AS PECIFICATIONS. AL GENERATED BY THE HEAT TRACE PANEL TO THE BUILDING BMS		
PERATURE SENSOR, ARRANGED TO ENERGIZE HEAT TRACING @ 40°F. SEAL KIT(S) AS REQUIRED. KIT(S) WITH END SEAL AS REQUIRED. CED" LABEL INSTALLED EVERY 10' O C.		
IESIVE - FOR METAL PIPE. ACKETS AND HARDWARE. N NEMA 4X RATED ENCLOSURE MOUNTED ON UNISTRUT STAND. LISTED AND FM APPROVED.		
OIL PIPING SHALL BE HEAT TRACED. WATER REMOVAL TREATMENT SYSTEM: SHALL BE CRITICAL FUEL 220. EQUIPMENT SHALL BE HOUSED IN A NEMA-4X ENCLOSURE MOUNTED		11/01/2021
MENT PAD. INSTALL ALL EQUIPMENT AS PER MANUFACTURER'S BADGER METER MODMAG M4000, ELECTROMAGNETIC FLOW METER.	NO. DESCRIPTION No use, reproduction or dissemination m drawing and the concepts set forth witho	DATE
OR: SHALL BE SIMILAR TO WATTS SERIES 15M2, PISTON TYPE WITH	Consent of OLA Consulting Engineers, P PROJECT CAPITAL PROJE	C. Copyright © 2021
OW PREVENTOR: SHALL BE WATTS MODEL 994 REDUCED PRESSURE LOW PREVENTER. PROVIDE NON-RISING STEM SHUTOFF GATE VALVES. TABLE FOR PRESSURES UP TO 175 PSI AND TEMPERATURES UP TO 110°F NTERMITTENT). THE ASSEMBLY SHALL HAVE SILICON SEATS AND LEAD CON ALLOY VALVE BODIES.	BUILDING E UTILI RENOVATION & IMP DR. ROBERT L. YEAGER 50 SANATORIUI POMONA, NY	TY PLANT ROVEMENTS HEALTH CENTER M ROAD, 10970
BIBLE LINK SHUTOFF VALVE: SHALL BE PREFERRED UTILITIES MODEL 110 OFF VALVE WITH 165 DEGREE FUSIBLE LINKS. EM: SHALL BE CULLIGAN MODEL CSM-3NC DUPLEX VERTICAL PRESSURE		YMBOLS,
SYSTEM. PEAK FLOW OF 210 GPM @ 25 PSI LOSS, MINIMUM FLOW OF 5 00 KGR AT 150 LBS SALT. MAX SALT LOAD OF 1400 LBS, 150 LBS/REGEN. FOR SHALL PERFORM WATER SAMPLING AND TESTING AND SHALL RFORMANCE AND CHEMICAL REQUIREMENTS WITH THE MANUFACTURER. PORT TO THE ENGINEER FOR RECORD.	ABBREVIATIO GENERAL N	ONS AND NOTES
	SEAL SCALE NONE DRAWN E NW	PROJECT NO. NRCK0016.00 BY DRAWING NO.
	CHECKEL	P0_1

DATE 04-28-2020



- FLOOR OR WALL ASSEMBLY MIN 4-1/2 IN. THICK REINFORCED LIGHTWEIGHT OR NORMAL WEIGHT (100-150 PCF) CONCRETE. WALL MAY ALSO BE CONSTRUCTED OF ANY UL CLASSIFIED CONCRETE BLOCKS*. MAX DIAM OF OPENING IS 26 IN. • SEE CONCRETE BLOCKS (CAZT) CATEGORY IN THE FIRE RESISTANCE DIRECTORY FOR NAMES OF MANUFACTURERS.
- 2. STEEL SLEEVE (OPTIONAL) NOM 14 IN. DIAM (OR SMALLER) SCHEDULE 10 (OR HEAVIER) STEEL SLEEVE CAST OR GROUTED INTO FLOOR OR WALL ASSEMBLY.
- THROUGH PENETRANTS ONE METALLIC PIPE, CONDUIT OR TUBING INSTALLED EITHER CONCENTRICALLY OR ECCENTRICALLY WITHIN THE FIRESTOP SYSTEM. THE ANNULAR SPACE BETWEEN PIPE, CONDUIT OR TUBING AND PERIPHERY OF OPENING OR SLEEVE SHALL BE MIN 0 IN. (POINT CONTACT) TO MAX 2 IN. PIPE, CONDUIT OR TUBING TO BE RIGIDLY SUPPORTED ON BOTH SIDES OF WALL ASSEMBLY. THE FOLLOWING TYPES AND SIZES OF METALLIC PIPES, CONDUITS OR TUBING MAY BE USED:
- A. STEEL PIPE NOM 24 IN. DIAM (OR SMALLER) SCHEDULE 10 (OR HEAVIER) STEEL PIPE. B. IRON PIPE - NOM 24 IN. DIAM (OR SMALLER) SERVICE WEIGHT (OR HEAVIER) CAST IRON SOIL PIPE, NOM 24 IN DIAM (OR SMALLER) CLASS 50 (OR HEAVIER) DUCTILE IRON PRESSURE PIPE. CONDUIT - NOM 6 IN. DIAM (OR SMALLER) STEEL CONDUIT OR NOM 4 IN. DIAM (OR SMALLER) STEEL ELECTRICAL METALLIC TUBING. D. COPPER TUBING - NOM 6 IN. DIAM (OR SMALLER) TYPE L (OR HEAVIER) COPPER TUBING.
- E. COPPER PIPE NOM 6 IN. DIAM (OR SMALLER) REGULAR (OR HEAVIER) COPPER PIPE.
- 4. FIRESTOP SYSTEM THE DETAILS OF THE FIRESTOP SYSTEM SHALL BE AS FOLLOWS: A. PACKING MATERIAL - MIN 4 IN. THICKNESS OF MIN 4 PCF MINERAL WOOL BATT INSULATION FIRMLY PACKED INTO OPENING AS A PERMANENT FORM. PACKING MATERIAL TO BE RECESSED FROM TOP
- SURFACE OF FLOOR OR FROM BOTH SURFACES OF WALL AS REQUIRED TO ACCOMMODATE THE REQUIRED THICKNESS OF FILL MATERIAL B. FILL, VOID OR CAVITY MATERIALS* - CAULK OR SEALANT - MIN 1/4 IN. THICKNESS OF FILL MATERIAL APPLIED WITHIN THE ANNULUS, FLUSH WITH TOP SURFACE OF FLOOR OR WITH BOTH SURFACES OF WALL. MIN 1/4 IN. DIAM BEAD OF CAULK APPLIED TO THE PENETRANT/CONCRETE OR PENETRANT/SLEEVE INTERFACE AT THE POINT CONTACT LOCATION ON THE TOP SURFACE OF FLOOR OR BOTH SURFACES OF WALL.

3M COMPANY - CP 25WB+ CAULK OR FB-3000 WT SEALANT. (THE W RATING APPLIES ONLY WHEN FB-3000 WT IS USED.)

*BEARING THE UL CLASSIFICATION MARKING

