

TOWN OF GREENBURGH THEODORE D. YOUNG COMMUNITY CENTER 32 MANHATTAN AVE WHITE PLAINS, NY 10607 BOILER PLANT REPLACEMENT

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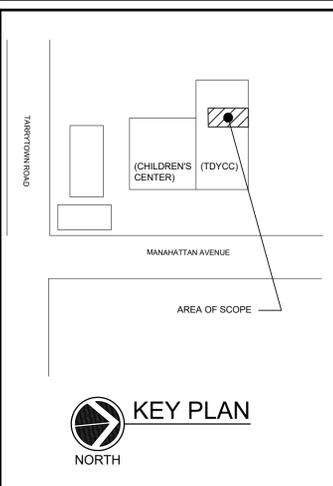
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32 MANHATTAN AVENUE
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DRAWING TITLE
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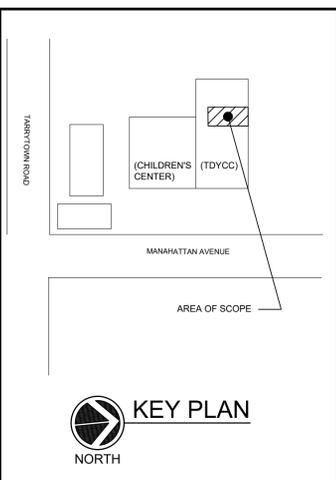
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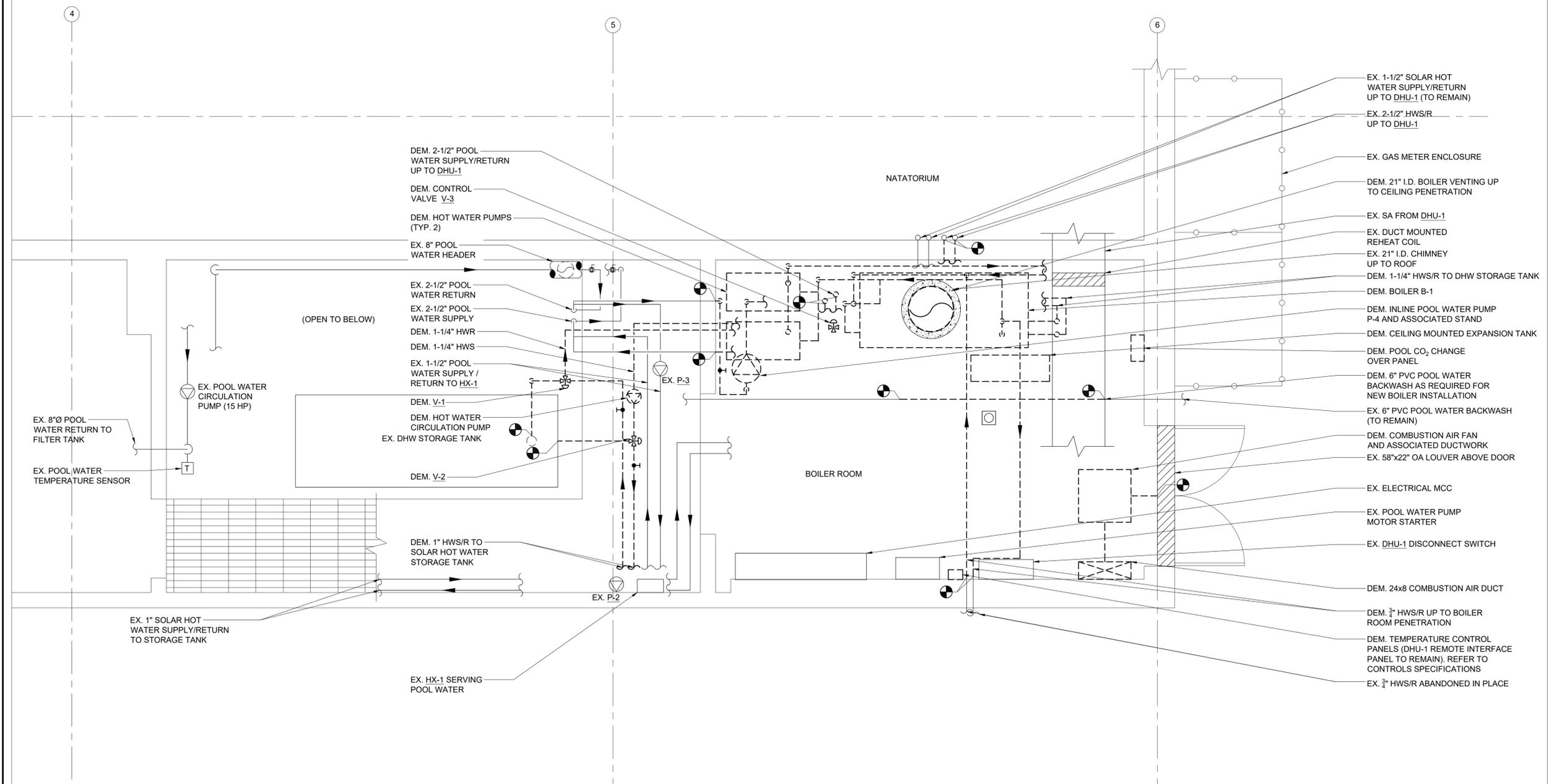
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DEMOLITION NOTES:
 1. NOT ALL PIPING SHOWN ON THIS DRAWING. REFER TO M5.1 FOR PIPING DEMOLITION SCHEMATIC



1 **MECHANICAL BOILER ROOM DEMOLITION PLAN**
 SCALE: 1/2" = 1'-0"

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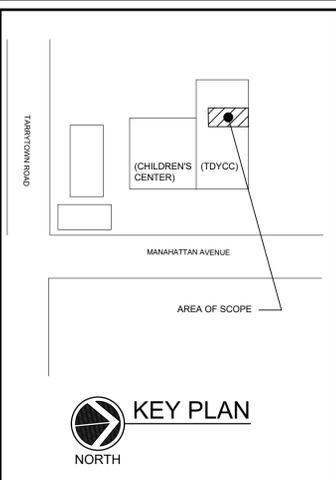
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**MECHANICAL
 BOILER ROOM DEMOLITION PLAN**

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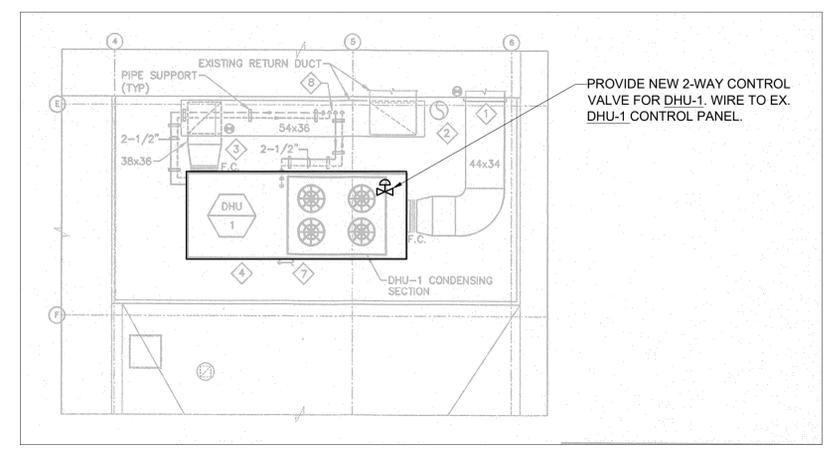
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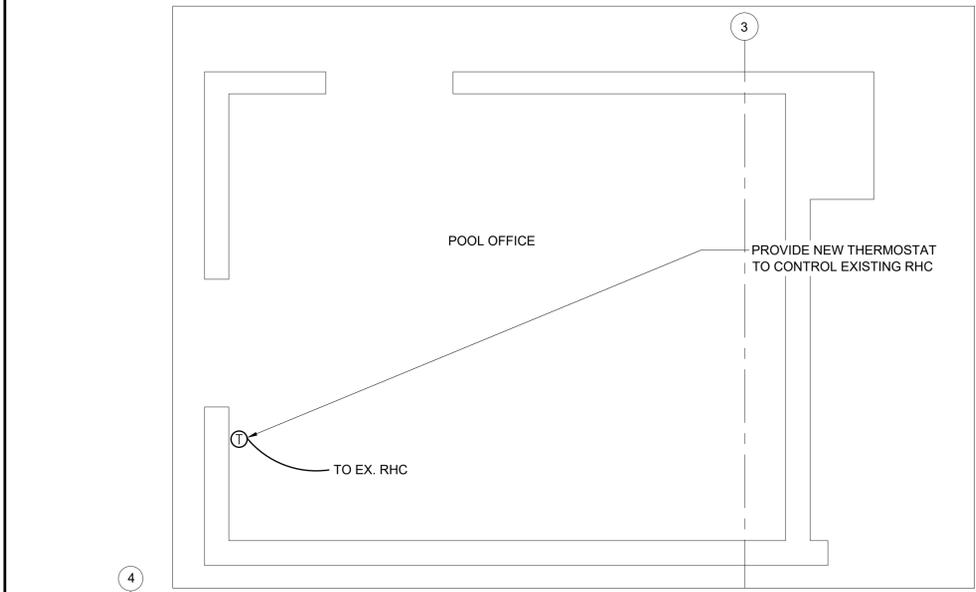
**MECHANICAL
 BOILER ROOM
 NEW WORK PIPING PLAN**

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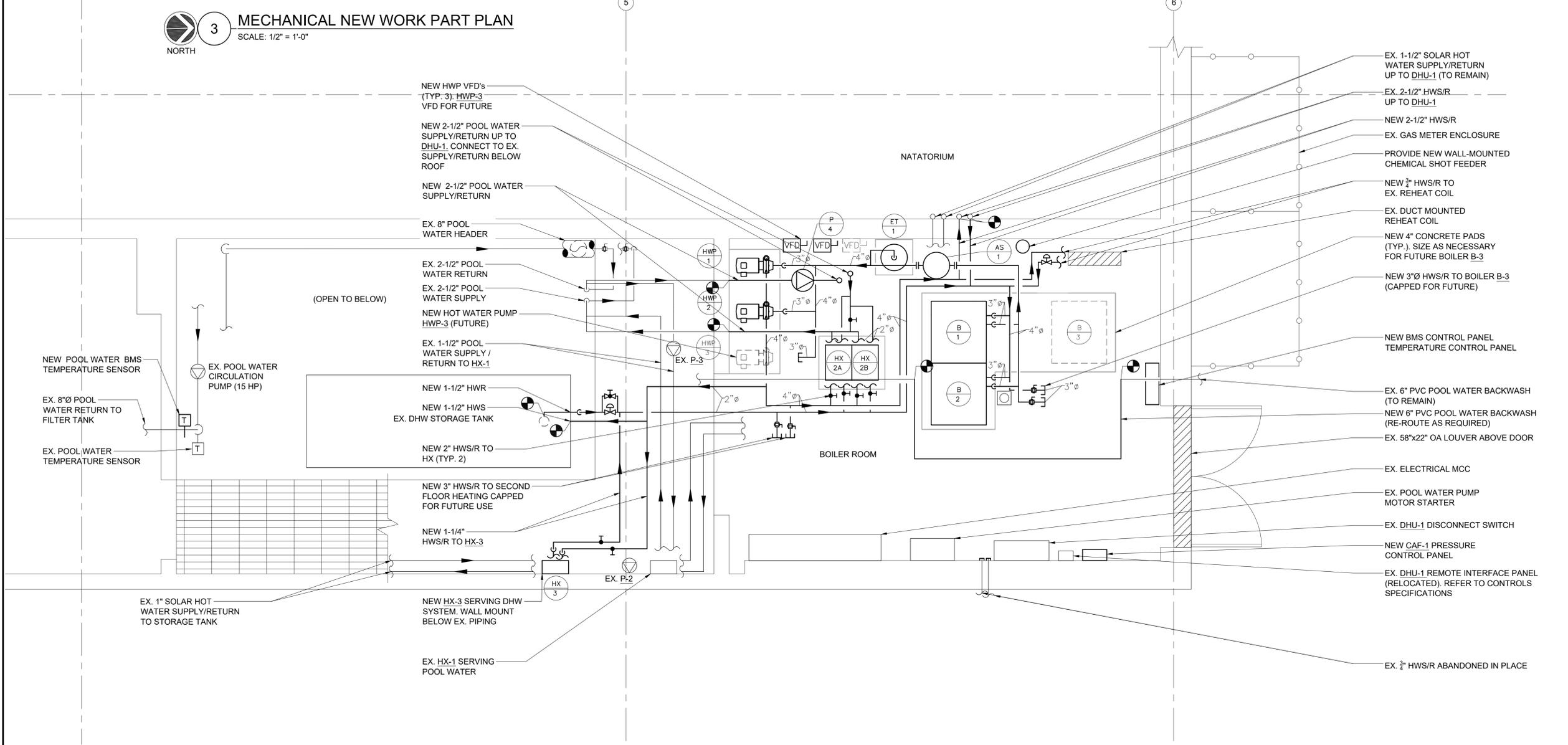
- GENERAL CONSTRUCTION NOTES:**
1. PROVIDE ALL CUTTING AND PATCHING OF MASONRY WALLS, PARTITIONS, CEILINGS, ETC. AS REQUIRED TO FACILITATE THE MECHANICAL AND ELECTRICAL WORK. PATCHING MATERIALS AND METHODS SHALL MATCH EXISTING CONSTRUCTION.
 2. PAINT ALL EXISTING SURFACES DAMAGED BY NEW WORK WITH NEW LATEX BASED PAINT WITH COLOR TO MATCH THE EXISTING. PREPARE, PRIME, AND PAINT ALL NEW AND EXISTING SURFACES IN ACCORDANCE WITH THE PROJECT SPECIFICATIONS.
 3. PROVIDE FIRESTOPPING FOR ALL DUCTWORK AND PIPING PENETRATIONS THROUGH NEW AND EXISTING BOILER ROOM PARTITIONS PER UL LISTED FIRESTOP ASSEMBLIES, PER SPECIFICATIONS.
- ADD-ALTERNATE #1 SCOPE OF WORK NOTES:**
1. HOT WATER PUMP VFD'S SHALL BE PROVIDED AS PART OF NEW MOTOR CONTROL CENTER. REFER TO ELECTRICAL DRAWINGS.



2 MECHANICAL BOILER ROOM ROOF NEW WORK PIPING PLAN
 SCALE: 1/8" = 1'-0"
 NORTH



3 MECHANICAL NEW WORK PART PLAN
 SCALE: 1/2" = 1'-0"
 NORTH



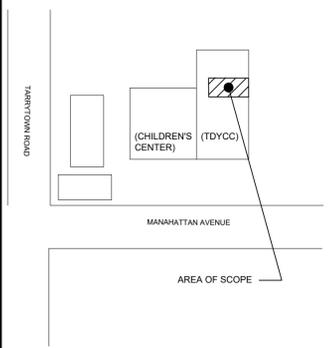
1 MECHANICAL BOILER ROOM NEW WORK PIPING PLAN
 SCALE: 1/2" = 1'-0"
 NORTH



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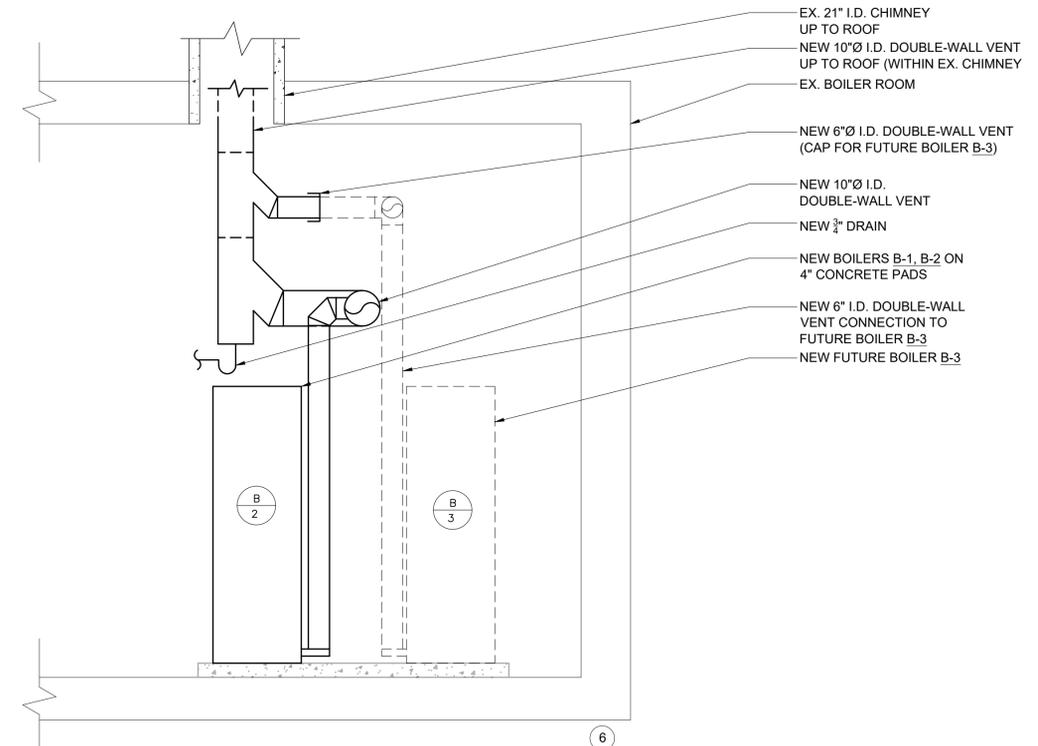
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**MECHANICAL
 BOILER ROOM
 NEW WORK DUCTWORK PLAN**

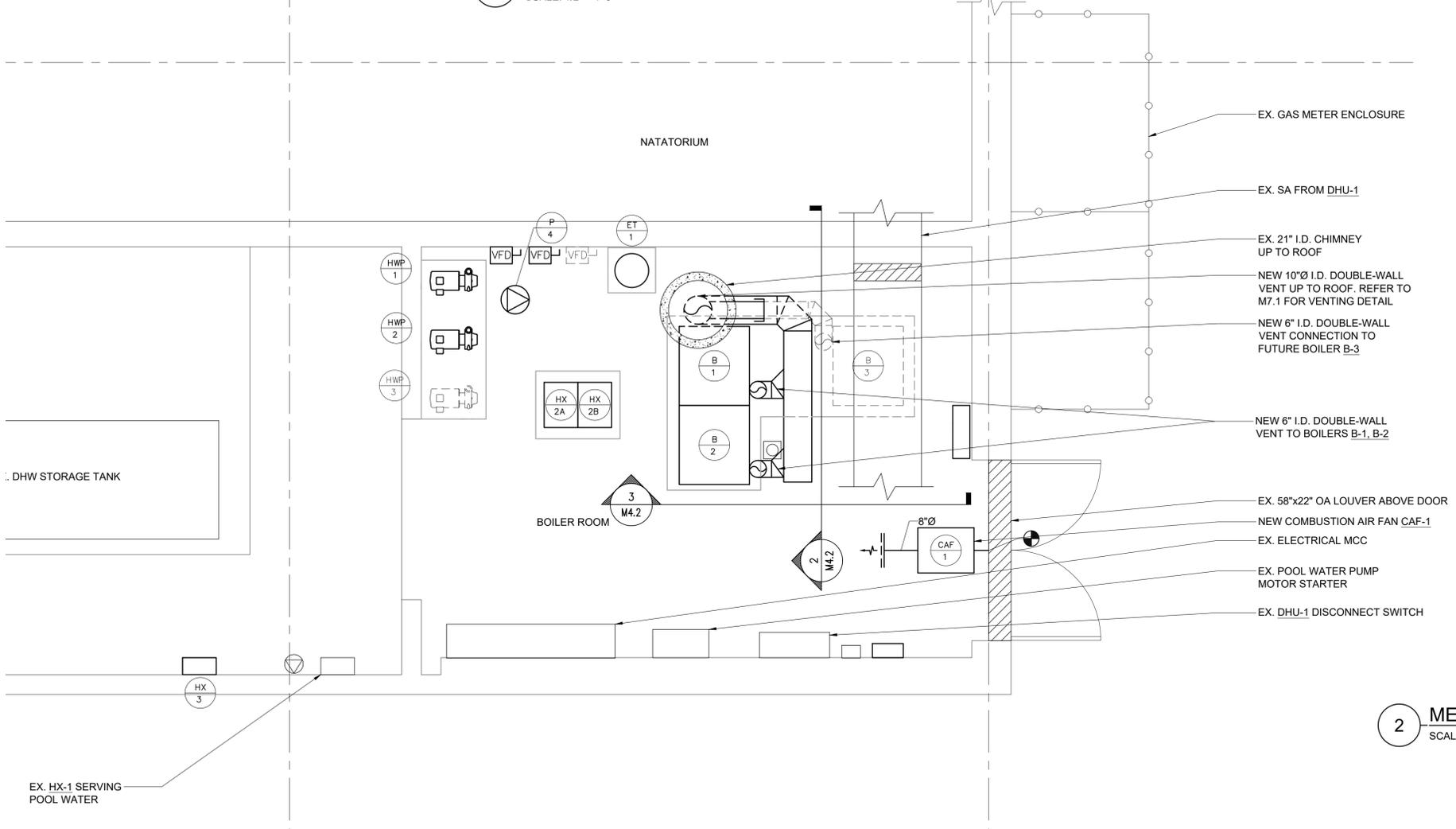
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NEW WORK NOTES:

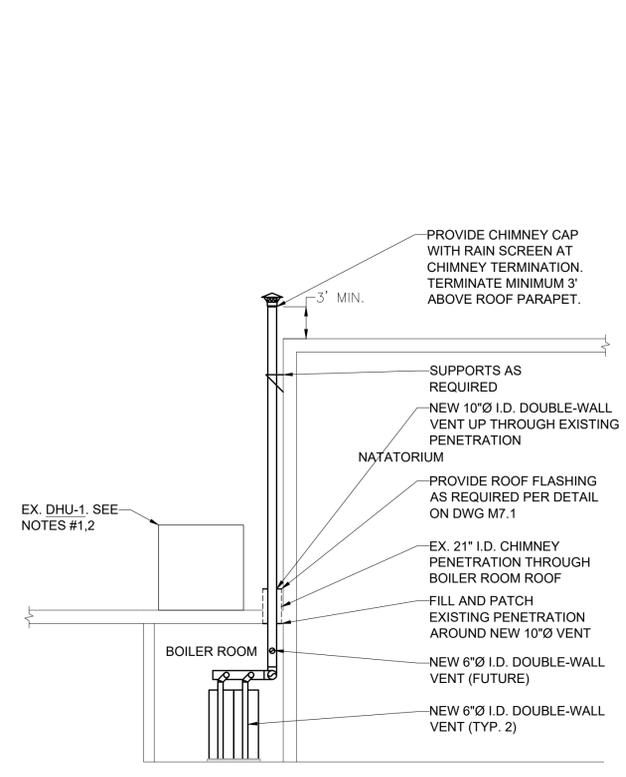
1. PROVIDE NEW 3/4" PVC CONDENSATE PIPING FROM DHU-1 DRAIN CONNECTIONS TO EXISTING ROOF DRAINS.
2. REPLACE DETERIORATED SECTIONS OF PIPE INSULATION SERVING EXISTING 2-1/2" POOL WATER AND HOT WATER PIPING FOR DHU-1.



3 MECHANICAL BOILER ROOM NEW WORK VENTING SECTION
 SCALE: 1/2" = 1'-0"



1 MECHANICAL BOILER ROOM NEW WORK DUCTWORK PLAN
 SCALE: 1/2" = 1'-0"



2 MECHANICAL BOILER ROOM NEW WORK VENTING SECTION
 SCALE: 1/8" = 1'-0"

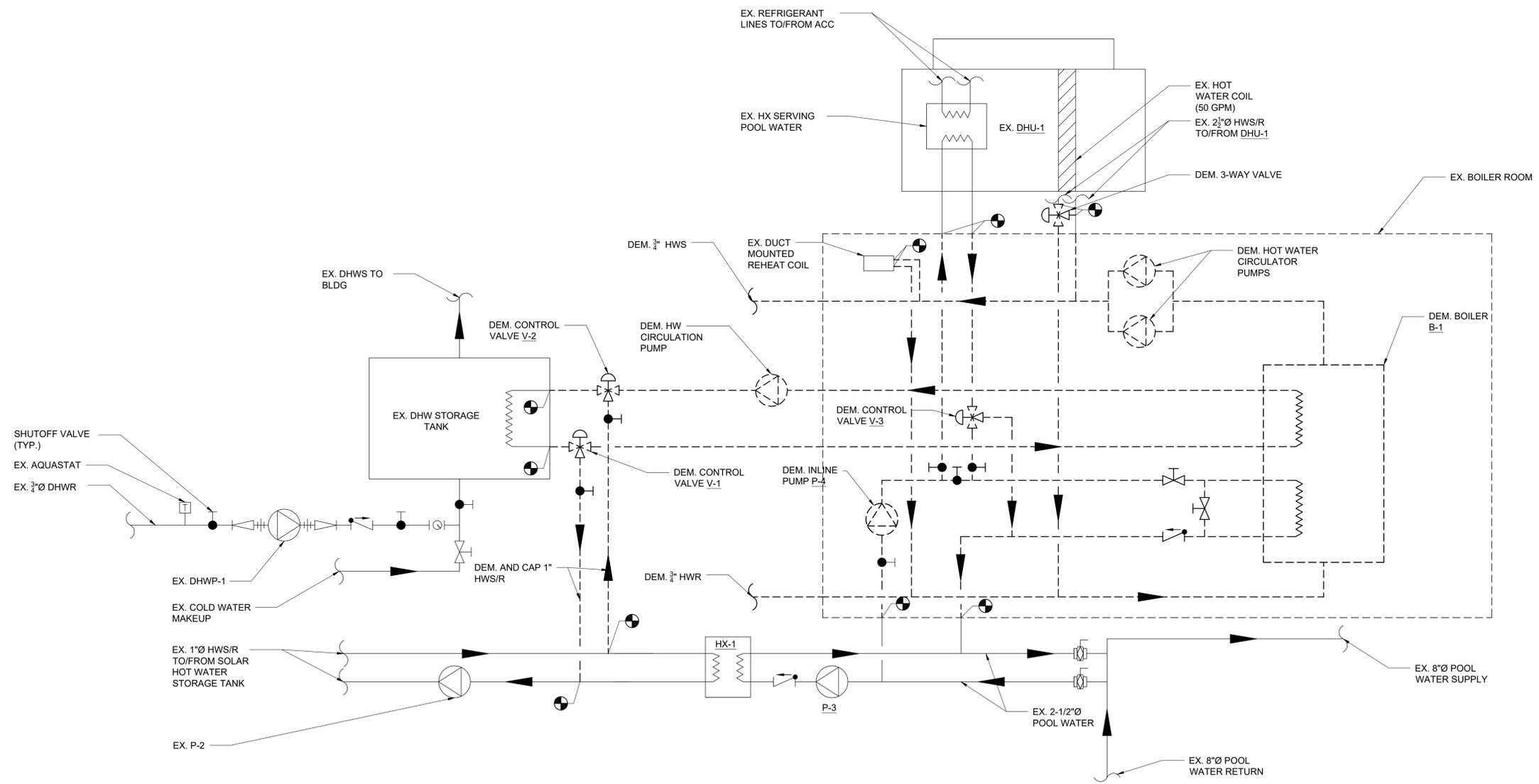
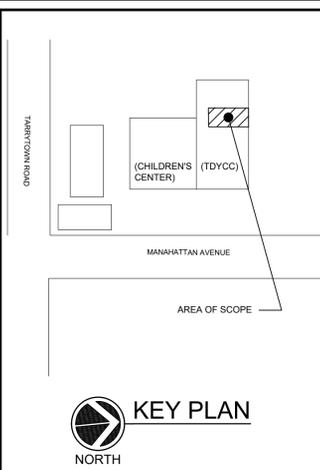




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1 MECHANICAL DEMOLITION PIPING SCHEMATIC
 SCALE: NONE

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**MECHANICAL
 DEMOLITION PIPING
 SCHEMATIC**

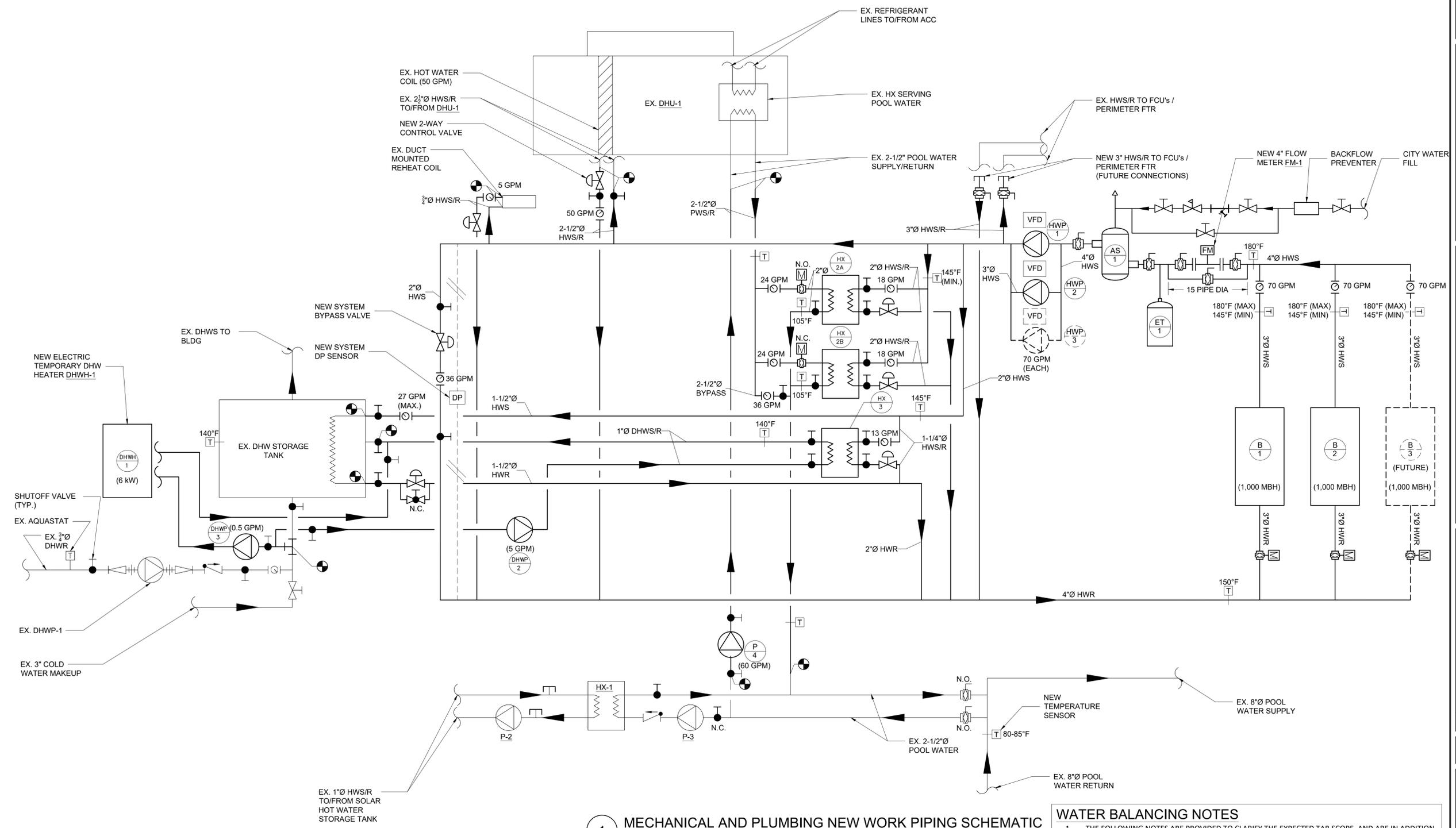
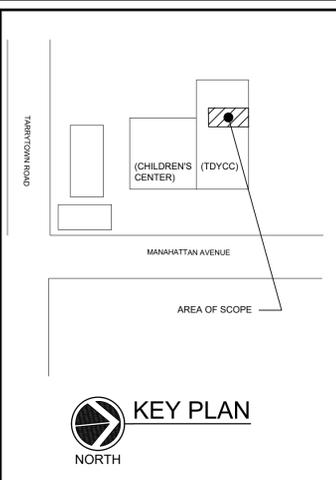
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1 MECHANICAL AND PLUMBING NEW WORK PIPING SCHEMATIC
 SCALE: NONE

- WATER BALANCING NOTES**
- THE FOLLOWING NOTES ARE PROVIDED TO CLARIFY THE EXPECTED TAB SCOPE, AND ARE IN ADDITION TO THE SPECIFICATION REQUIREMENTS.
 - WHILE PUMP P-4 IS ON, THERE SHALL ALWAYS BE SOME FLOW BYPASSING HX-2A AND HX-2B, (~36 GPM). PUMP P-3 IS SHOWN FOR CLARITY AND IS NOT UTILIZED (ABANDONED).
 - HX-2A AND HX-2B ARE NOT INTENDED TO OPERATE SIMULTANEOUSLY.
 - HX-3 AND THE DHW TANK COIL ARE NOT INTENDED TO OPERATE SIMULTANEOUSLY.
 - TAB CONTRACTOR SHALL TEST AND BALANCE THE HEATING SYSTEM IN SEVERAL SCENARIOS, INCLUDING BUT NOT LIMITED TO:
 - HX-2A OPERABLE, HX-3 OPERABLE ; HX-2B DISABLED, DHW TANK COIL DISABLED.
 - HX-2B OPERABLE, HX-3 OPERABLE; HX-2A DISABLED, DHW TANK COIL DISABLED.
 - HX-2A OPERABLE, DHW TANK COIL OPERABLE ; HX-2B DISABLED, HX-3 DISABLED.
 - HX-2B OPERABLE, DHW TANK COIL OPERABLE ; HX-2B DISABLED, HX-3 DISABLED.
 - TAB CONTRACTOR TO TAKE MEASUREMENTS TO VERIFY CALIBRATION OF FLOW METER FM-1.
 - SYSTEM BYPASS LINE TO BE BALANCED WITH ALL OTHER LOADS CLOSED.

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COMBUSTION AIR FAN SCHEDULE

DESIGNATION	CAF-1
LOCATION	BOILER ROOM
AREA SERVED	BOILER ROOM
MODEL	ISAF12
CFM	1,050
HP	1/2
FLA (AMPS)	4.2
RPM	2,200
SP (IN H ₂ O)	0.5"
VOLTS/ØHz	120/1/60
STARTER	-
INTERLOCK	B-1/B-2

NOTES:
 1. CAF-1 BASED ON US DRAFT CO.
 2. PROVIDE FAN PRESSURE CONTROLLER U.S. DRAFT CO. MODEL V250.
 3. PROVIDE INTEGRAL BACK DRAFT DAMPER.

HEAT EXCHANGER SCHEDULE

DESIGNATION	HX-2A, 2B	HX-3
LOCATION	BOILER ROOM	DHW STORAGE TANK ROOM
SERVICE	POOL WATER	DOMESTIC HOT WATER
MODEL	AP14	BPDW415-50
CAPACITY (MBH)	360.0	250.0
COLD SIDE:		
GPM	24.2	5.0
E.W./T./L.W.T. (°F)	75°/104°	40°/140°
WATER P.D. (FT. H ₂ O)	19.3	0.55
HOT SIDE:		
GPM	17.7	12.6
E.W./T./L.W.T. (°F)	145°/105°	145°/105°
WATER P.D. (FT. H ₂ O)	10.7	4.0

NOTES:
 1. HEAT EXCHANGERS BASED ON BELL & GOSSETT.

PUMP SCHEDULE

DESIGNATION	HWP-1, 2, 3	DHWP-2	DHWP-3	P-4
LOCATION	BOILER ROOM	DHW STORAGE TANK ROOM	POOL FILTER ROOM	BOILER ROOM
SYSTEM SERVED	HOT WATER	DOMESTIC HOT WATER	DOMESTIC HOT WATER	POOL WATER
MODEL	e-1535 1.25AAC	110S	110S	e-90 1.5AB
TYPE	BASE MOUNTED	INLINE	INLINE	INLINE
GPM	70	5	0.5	60
FLUID	WATER	DOMESTIC WATER	DOMESTIC WATER	POOL WATER
FLUID TEMP. (°F)	180°	140°	140°	105°
TOTAL DYNAMIC HEAD (FT H ₂ O)	55	5	5	50
RPM	3,600	1,725	1,725	1,800
MOTOR:				
BHP/HP	1.31 / 3	0.08	0.08	1.19 / 2
VOLTAGE/ØHz	208/3/60	120/1/60	120/1/60	208/3/60
STARTER:				
TYPE	VFD	-	-	-
LOCATION	BOILER ROOM	DHW STORAGE TANK ROOM	POOL FILTER ROOM	BOILER ROOM
NOTES: 1. PUMPS BASED ON BELL AND GOSSETT AND TACO. 2. ALL MOTORS SHALL BE PREMIUM EFFICIENCY.				

HOT WATER CONDENSING BOILERS

DESIGNATION	B-1, B-2, B-3
LOCATION	BOILER ROOM
QTY	3
MODEL	BMK-1000
INPUT (MBH)	1,000
GROSS OUTPUT (MBH)	960
MIN. GAS PRESSURE (W.C.)	4"
MAX. GAS PRESSURE (W.C.)	14"
MAX. ALLOWED WORKING PRESSURE (PSIG)	160
MIN. FLOW RATE (GPM)	12
WATER CONNECTIONS	3"
EWT/LWT (°F)	140°/180°
DIMENSIONS (L x W x H)	25"x28"x78"
GAS BURNER:	
GAS INPUT (MBH)	1,000
THERMAL EFFICIENCY (%)	87%
ELECTRICAL DATA:	
VOLTS/ØHz	120/1/60
FLA	13.0

NOTES:
 1. BOILERS BASED ON AERCO.
 2. PROVIDE ASME CSD-1 COMPLIANT CONTROLS.
 3. PROVIDE BOILERS WITH 80 PSI ASME RELIEF VALVES, 3-1/4" PRESSURE AND TEMPERATURE GAUGES, MANUAL RESET HIGH LIMIT AQUASTAT, LOW WATER CUT OFF.
 4. PROVIDE MANUFACTURER'S CONDENSATE NEUTRALIZING KIT.
 5. PROVIDE WITH FM COMPLIANT OR FACTORY INSTALLED DBB (IRI), VALVE PROVING SYSTEM GAS TRAIN OPERATION.

AIR SEPARATOR SCHEDULE

DESIGNATION	AS-1
SERVICE	HW
MODEL	RL-4F
FLANGED TANGENTIAL OPENING (IN)	4"
OPERATING WEIGHT (LB)	263
DIAMETER/HEIGHT (IN)	16
CAPACITY (GAL)	13
MAX. TEMP. (°F)	350
MAX. PRESS. (PSI)	125

NOTES:
 1. AIR SEPARATORS SHALL BE BASED ON BELL AND GOSSETT.
 2. SHALL HAVE FLANGED TANGENTIAL OPENINGS.
 3. THE AIR SEPARATOR SHALL BE DESIGNED, CONSTRUCTED AND STAMPED FOR 125 PSIG AT 350°F IN ACCORDANCE WITH THE ASME BOILER AND PRESSURE VESSEL CODE.

EXPANSION TANK SCHEDULE

DESIGNATION	ET-1
SERVICE	HW
MODEL	D-40
OPERATING WEIGHT (LBS)	263
DIAMETER/HEIGHT (IN)	16.25/29
TANK AND ACCEPTANCE VOLUME (GAL)	21.7/11.3
MIN. TEMP. (°F)	60°
MAX. TEMP. (°F)	200°
MIN. PRESSURE (PSI)	28
MAX. PRESSURE (PSI)	125

NOTES:
 1. TANKS BASED ON BELL AND GOSSETT AND SHALL BE ASME RATED AND STAMPED FOR 125 PSIG.

EQUIPMENT NOTES

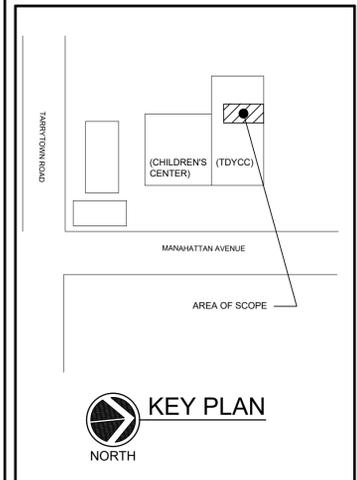
1.) TEMPORARY DHWH-1: AO SMITH MODEL #DSE-10A. 28" HEIGHT, 18" TOTAL DIAMETER, 3/8" COLD WATER/HOT WATER PIPING CONNECTIONS. 10 GALLON STORAGE TANK CAPACITY AT 160 PSI WORKING PRESSURE. HEAT RECOVERY: 27 GPH @ 90°F RISE. 6 KW, 208 V, 1 PH, 60HZ. WEIGHT 116LBS.

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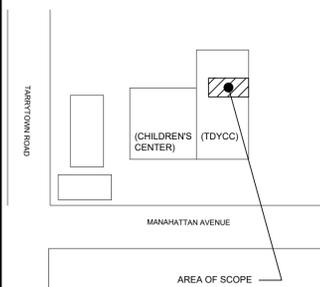
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KEY PLAN
 NORTH

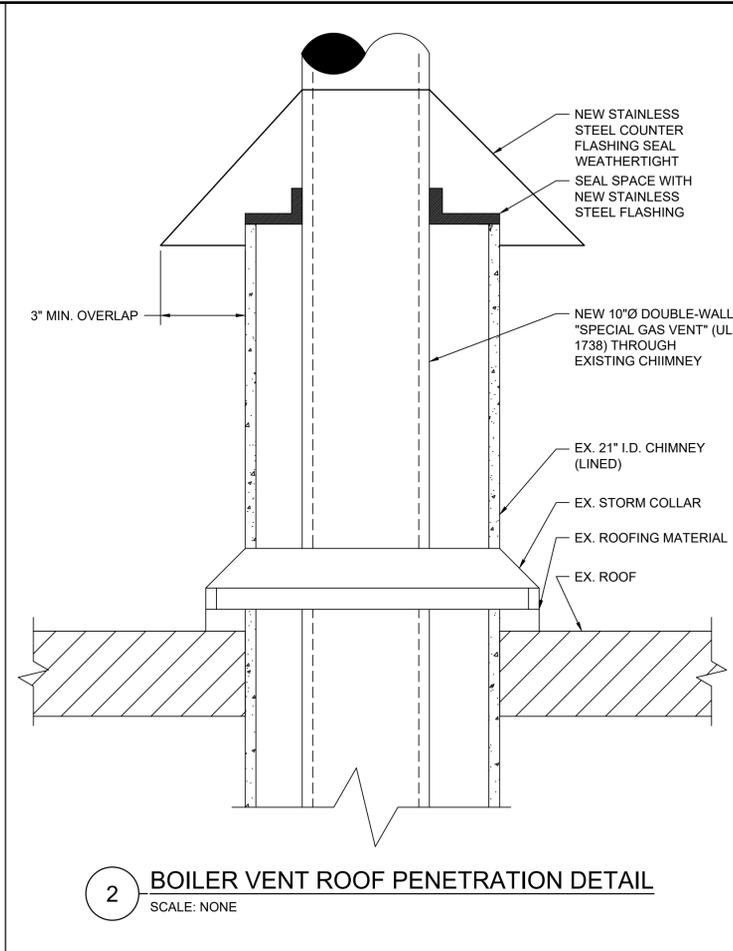
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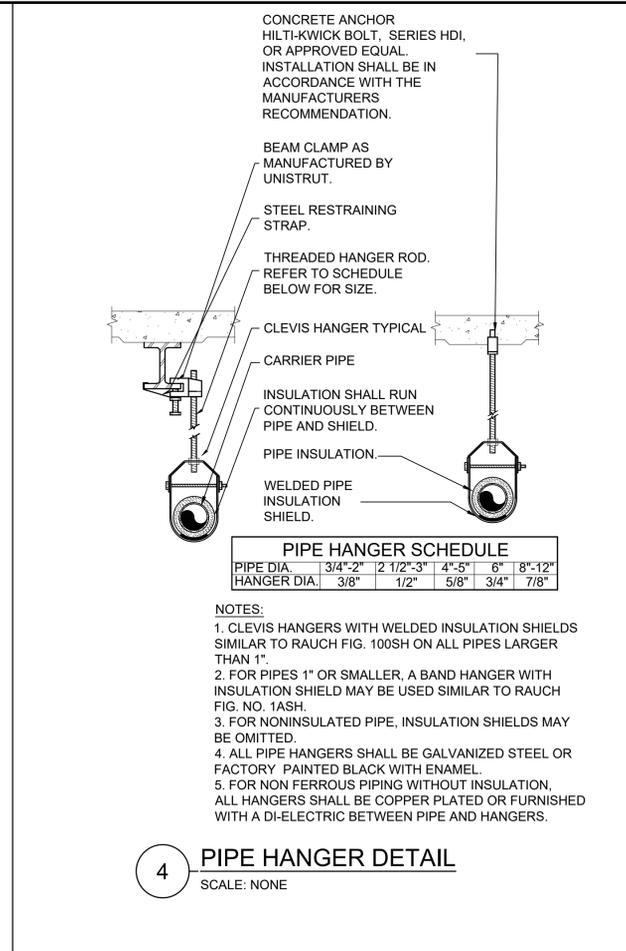
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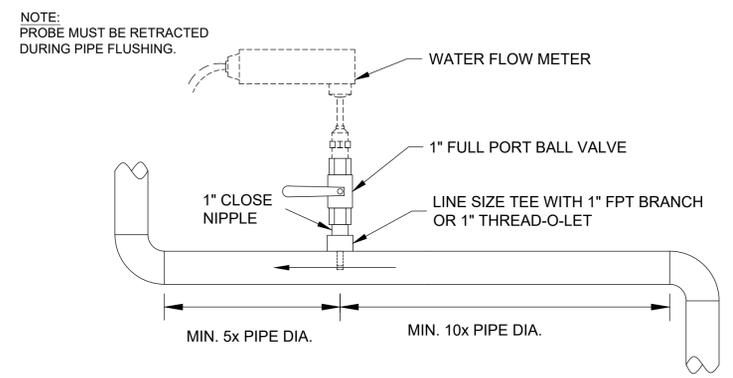
2 BOILER VENT ROOF PENETRATION DETAIL
 SCALE: NONE



4 PIPE HANGER DETAIL
 SCALE: NONE

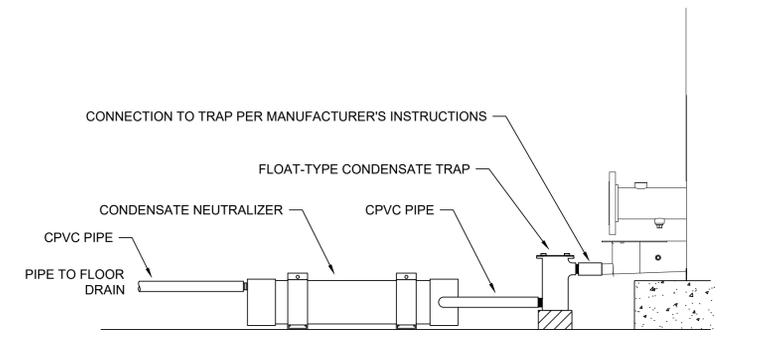
PIPE DIA.	3/4"-2"	2 1/2"-3"	4"-5"	6"	8"-12"
HANGER DIA.	3/8"	1/2"	5/8"	3/4"	7/8"

- NOTES:
- CLEVIS HANGERS WITH WELDED INSULATION SHIELDS SIMILAR TO RAUCH FIG. 100SH ON ALL PIPES LARGER THAN 1".
 - FOR PIPES 1" OR SMALLER, A BAND HANGER WITH INSULATION SHIELD MAY BE USED SIMILAR TO RAUCH FIG. NO. 1ASH.
 - FOR NONINSULATED PIPE, INSULATION SHIELDS MAY BE OMITTED.
 - ALL PIPE HANGERS SHALL BE GALVANIZED STEEL OR FACTORY PAINTED BLACK WITH ENAMEL.
 - FOR NON FERROUS PIPING WITHOUT INSULATION, ALL HANGERS SHALL BE COPPER PLATED OR FURNISHED WITH A DI-ELECTRIC BETWEEN PIPE AND HANGERS.



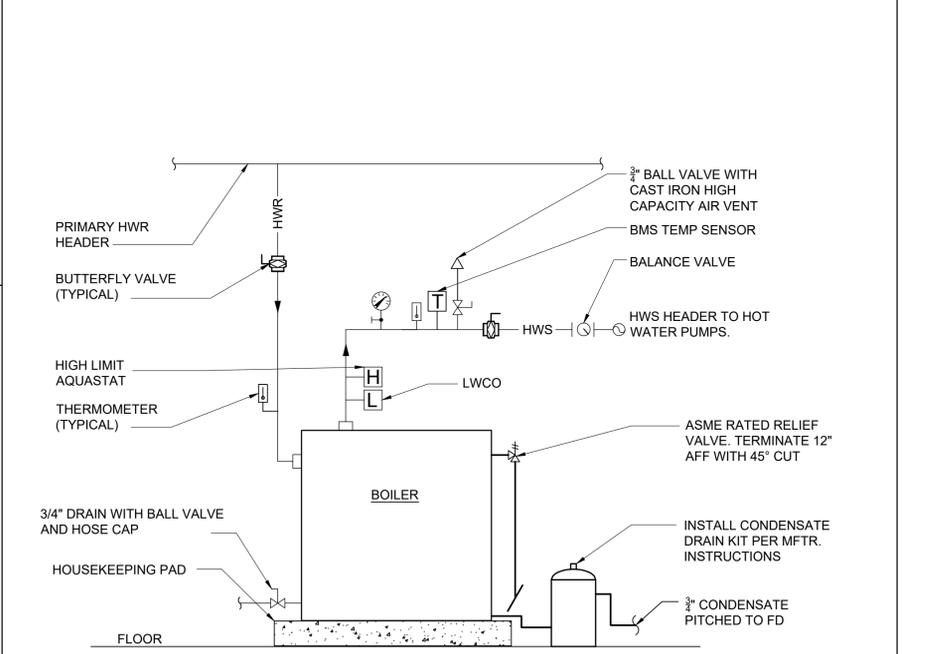
7 WATER FLOW METER HOOK-UP DETAIL
 SCALE: NONE

WATER METER PROBE MUST BE INSTALLED IN UPPER 180° OF PIPE, FOR HORIZONTAL PIPE. ANY CIRCUMFERENTIAL LOCATION IS ACCEPTABLE, FOR VERTICAL PIPE.

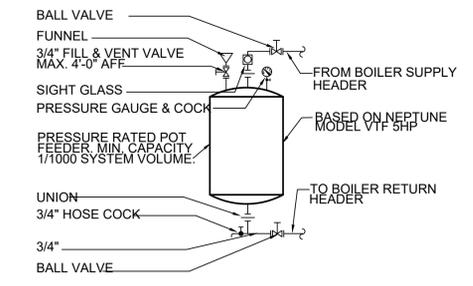


1 CONDENSATE NEUTRALIZER DETAIL
 SCALE: NONE

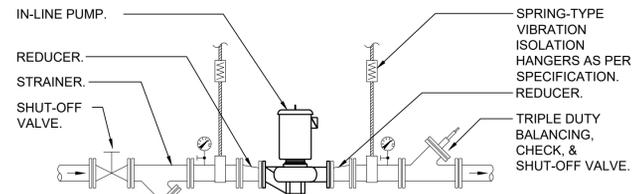
- NOTES:
- UTILIZE CPVC FOR ALL FIELD PIPING BETWEEN THE CONDENSATE TRAP AND NEUTRALIZER, OR TUBING AS PROVIDED BY THE BOILER MANUFACTURER.
 - BOILER TO BE INSTALLED ON A MINIMUM 4" HOUSEKEEPING PAD. CONDENSATE TRAP TO BE SUPPORTED AND ACID NEUTRALIZER INSTALLED ON MER FLOOR TO ALLOW CONDENSATE TO DRAIN FREELY, BY GRAVITY, TO A CONVENIENT FLOOR DRAIN.
 - CONDENSATE NEUTRALIZER TO BE SIZED BY BOILER MANUFACTURER BASED ON MAXIMUM CONDENSATE FLOW OVER A 1 YEAR PERIOD.
 - A DEDICATED CONDENSATE NEUTRALIZER SHALL BE SUPPLIED FOR ALL COMMON VENTING DRAINS.



3 HOT WATER BOILER PIPING DETAIL
 SCALE: NONE



6 CHEMICAL SHOT FEEDER DETAIL
 SCALE: NONE

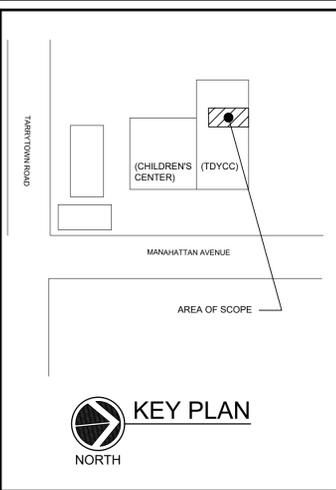


5 IN-LINE PUMP DETAIL
 SCALE: NONE

- NOTES:
- HANG IN-LINE PUMP FROM BUILDING STRUCTURE WITH VIBRATION ISOLATORS.
 - REFER TO PLANS FOR PIPE SIZES.

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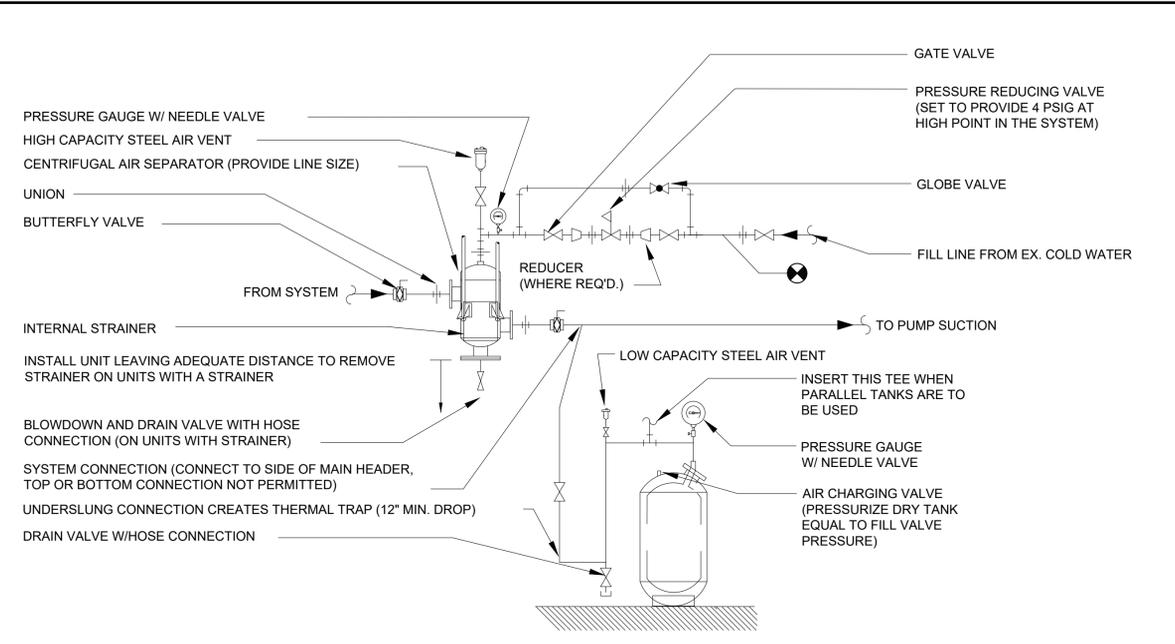
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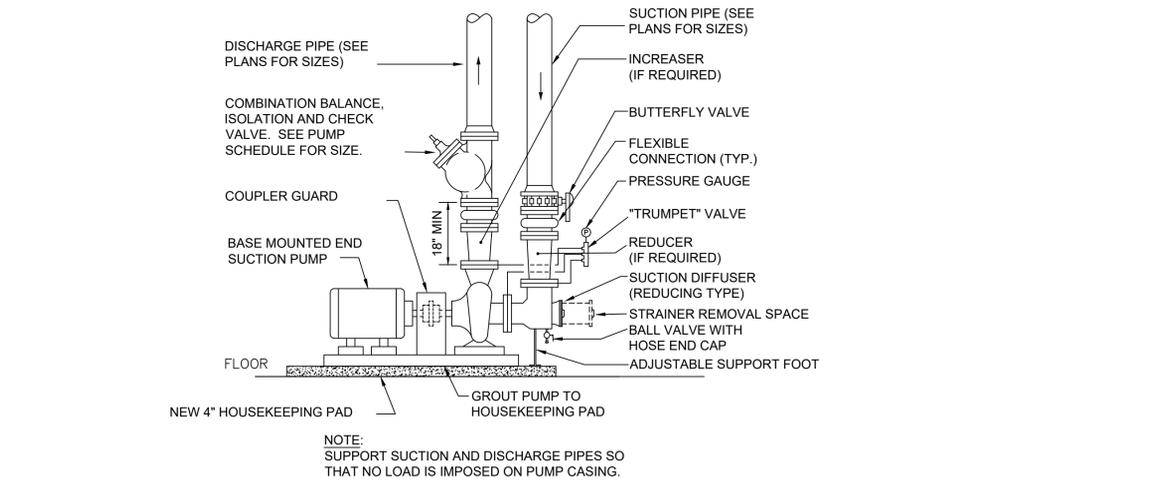
PROJECT TITLE
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DRAWING TITLE
MECHANICAL
DETAILS

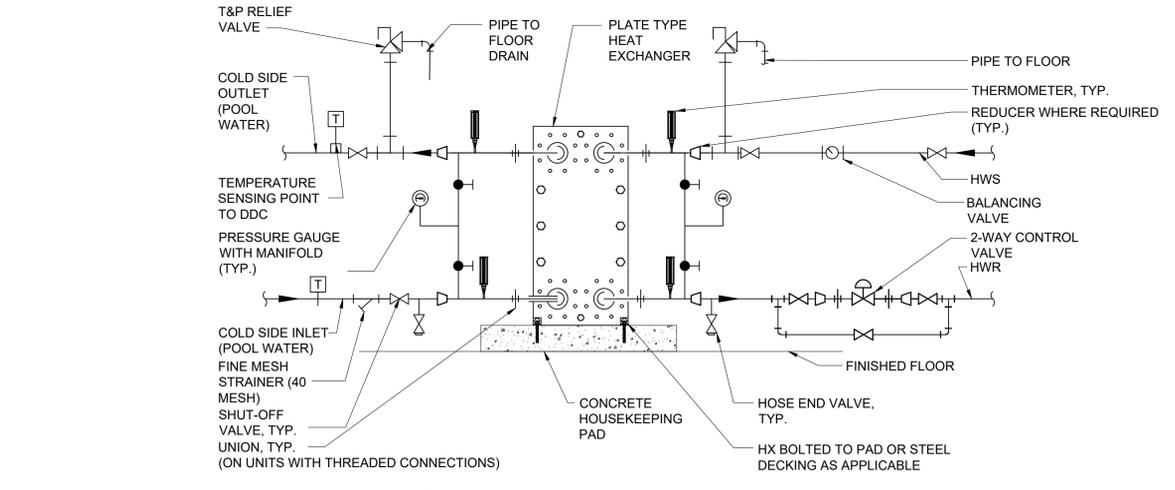
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3 AIR SEPARATOR AND EXPANSION TANK DETAIL
 (VERTICAL FLOOR MOUNTED - REPLACEABLE BLADDER)
 SCALE: NTS



2 END SUCTION PUMP PIPING DETAIL SOLID BASE
 SCALE: NONE



1 PLATE TYPE HX PIPING DETAIL
 SCALE: NONE

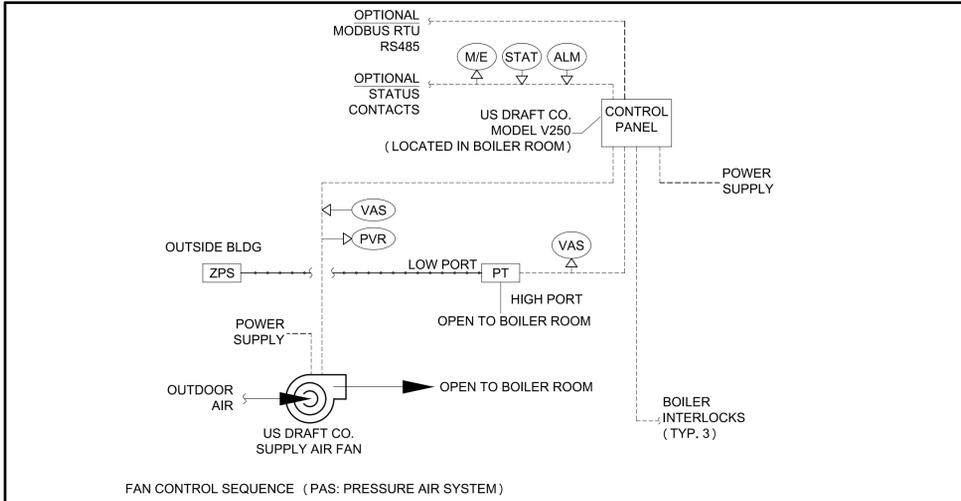
Application:
 Pressure Air System Diagram

Control System:
 V250-P

Date: Version: 1.0 DWG Rev: 0 Page #: 1 of 1

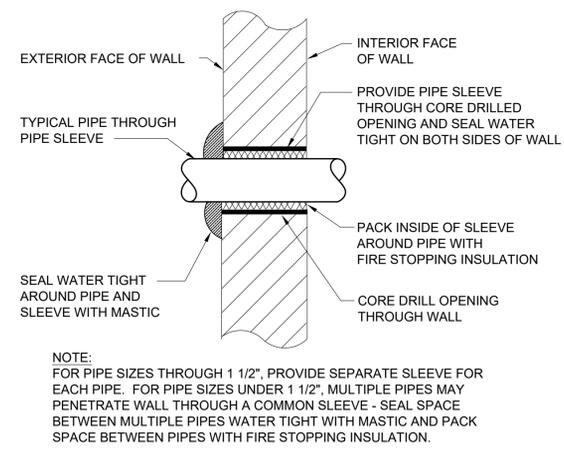
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○	Controller Output
○	Controller Input
---	Field Wiring Refer to specifications for voltage, amperage, and wiring type
---	Pneumatic Tubing for pressure reference
---	Vent or Duct
ALM	Alarm output
M/E	Master Enable: input of controller
PT	Pressure Transducer -1 to 1 in. WC
PVR	Supply Fan Proving Device Output CS75 Current Switch or GFS Differential Pressure Switch
STAT	System run status
VAS	Variable Analog Signal 0-10VDC
ZPS	Outdoor Air Static Pressure Pickup Port

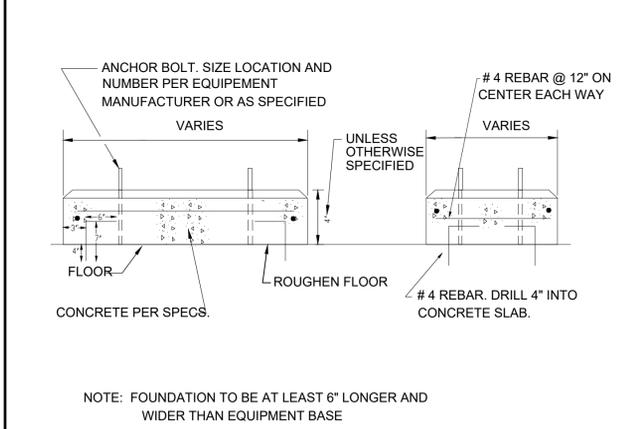


1. EACH HEATING APPLIANCE SHALL BE INTERLOCKED WITH THE CONTROL PANEL. UPON A CALL FOR HEAT, THE CONTROL PANEL SHALL ACTIVATE THE SUPPLY AIR FAN TO PROVIDE COMBUSTION AIR. THE SUPPLY AIR FAN SHALL START TO ESTABLISH THE REQUIRED PRESSURE IN THE BOILER ROOM. ALL EXTERNAL MECHANICAL LIMITS ARE MONITORED FOR STATUS. ONCE ALL THESE CONDITIONS ARE MET THE CONTROL SYSTEM WILL RELEASE THE FLAME PROGRAMMER OR GAS VALVE OF THE APPLIANCE CALLING FOR HEAT. THE SEQUENCE IS REPEATED EVERY TIME AN INITIAL APPLIANCE CALLS FOR HEAT. EACH ADDITIONAL CALL FOR HEAT THE CONTROL WILL NOT DELAY THE SEQUENCING OF THE ADDITIONAL HEATING APPLIANCES.
2. WHEN APPLIANCES SHUT DOWN THE SUPPLY AIR FAN WILL CONTINUE TO RUN IN POST-PURGE MODE FOR A SET PERIOD OF TIME.
3. ONCE THE POST-PURGE CYCLE IS COMPLETED THE SYSTEM SECURES AND THE CONTROL PANEL ENTERS STAND-BY MODE.
4. IF PROPER COMBUSTION AIR CANNOT BE MAINTAINED BECAUSE OF MECHANICAL OR ELECTRICAL FAILURE, THE CONTROL WILL GO IN ALARM MODE AND THE INTEGRATED MONITORING FUNCTION WILL SHUT DOWN ALL THE APPLIANCES WITHIN 15 SECONDS. WHILE IN ALARM MODE, THE CONTROL CONSTANTLY MONITORS THE SYSTEM CONDITIONS. IF THE FAILURE CORRECTS ITSELF OR IS CORRECTED VIA INTERVENTION, THE SYSTEM WILL RESTART AUTOMATICALLY. IF THE FAILURE IS NOT CORRECTED BEFORE THE ADJUSTABLE SYSTEM RELEASE FAULT TIMER EXPIRES, THE CONTROL WILL DISABLE AND LOCKOUT THE SYSTEM FOR FREEZE PROTECTION.

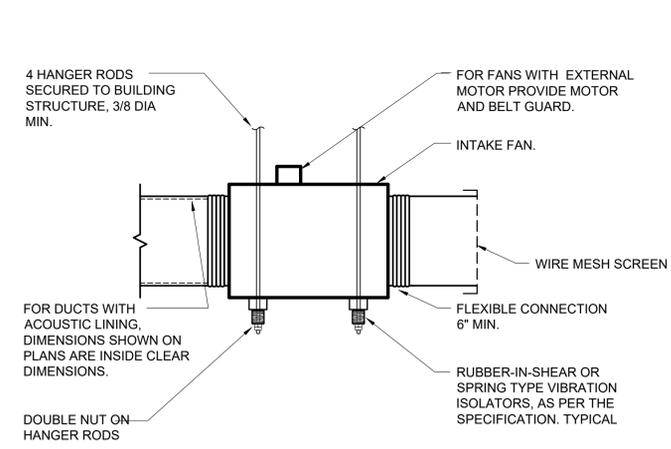
6 COMBUSTION AIR FAN DETAIL
 SCALE: NONE



5 WALL PIPE PENETRATION DETAIL
 SCALE: NONE



7 CONCRETE PAD DETAIL
 SCALE: NONE



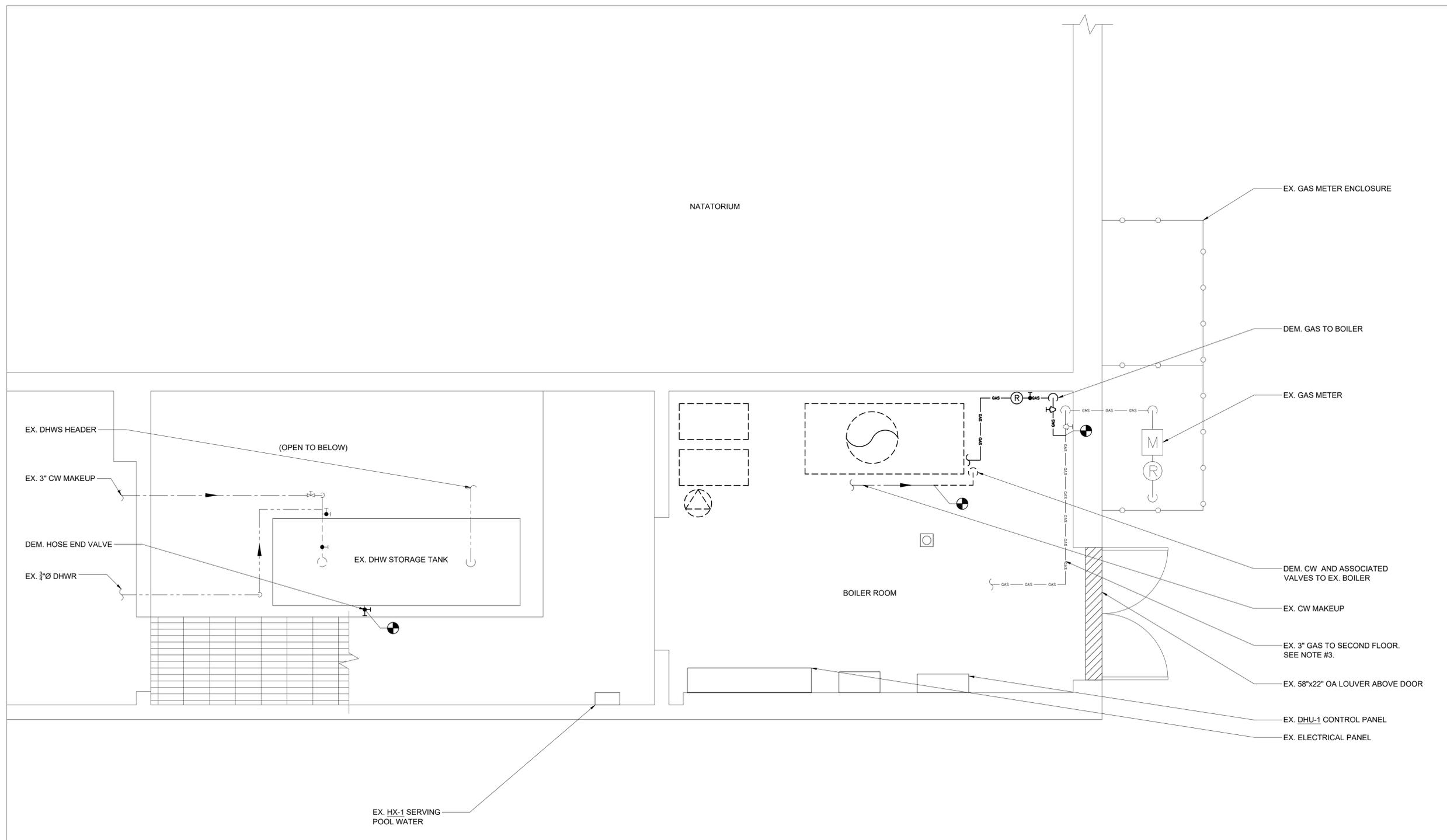
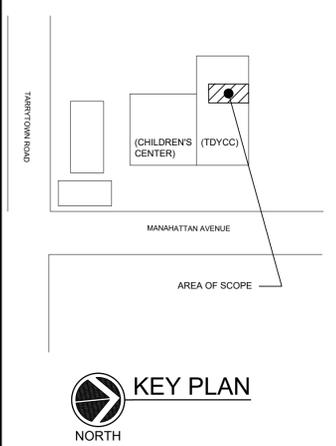
4 INLINE FAN DETAIL
 SCALE: NONE



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PROJECT TITLE
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 BOILER PLANT REPLACEMENT**
 32 MANHATTAN AVENUE
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DRAWING TITLE
**PLUMBING
 BOILER ROOM
 DEMOLITION PLAN**

SCALE AS NOTED	PROJECT NO. NTOG0011.00
DRAWN BY TO / AC	DRAWING NO.
CHECKED BY JK	P1.1
DATE 1/29/21	

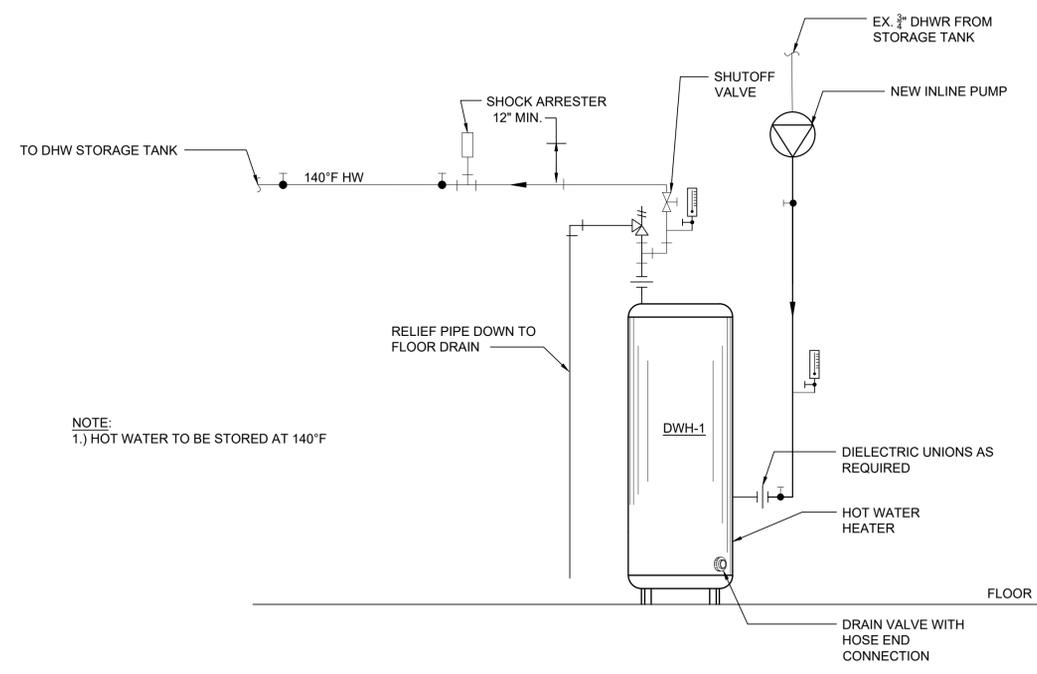
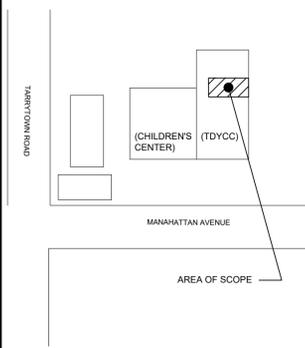
1 PLUMBING BOILER ROOM DEMOLITION PLAN
 SCALE: 1/2" = 1'-0"



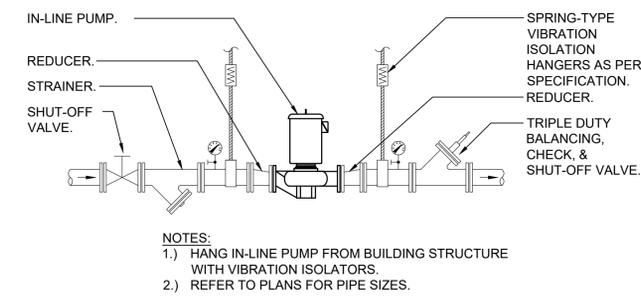
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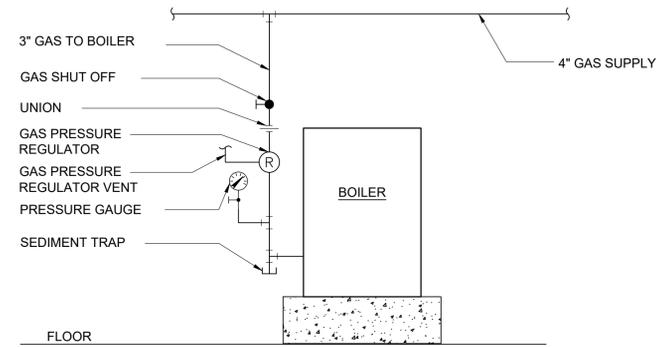
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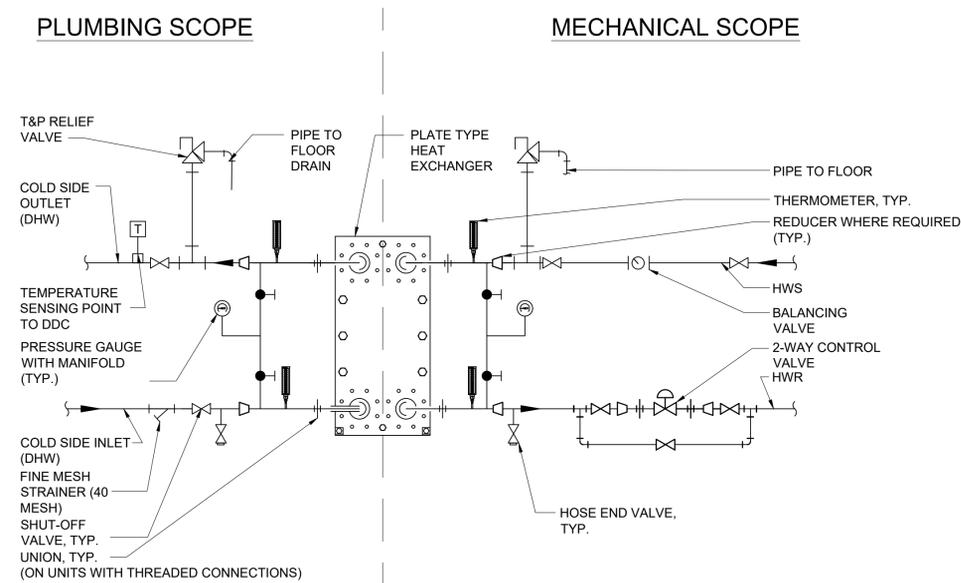
4 HOT WATER HEATER DETAIL
 SCALE: NONE



2 IN-LINE PUMP DETAIL
 SCALE: NONE



3 BOILER GAS PIPING DETAIL
 SCALE: NONE



1 PLATE TYPE HX PIPING DETAIL
 SCALE: NONE

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DRAWING TITLE
**PLUMBING
 DETAILS**

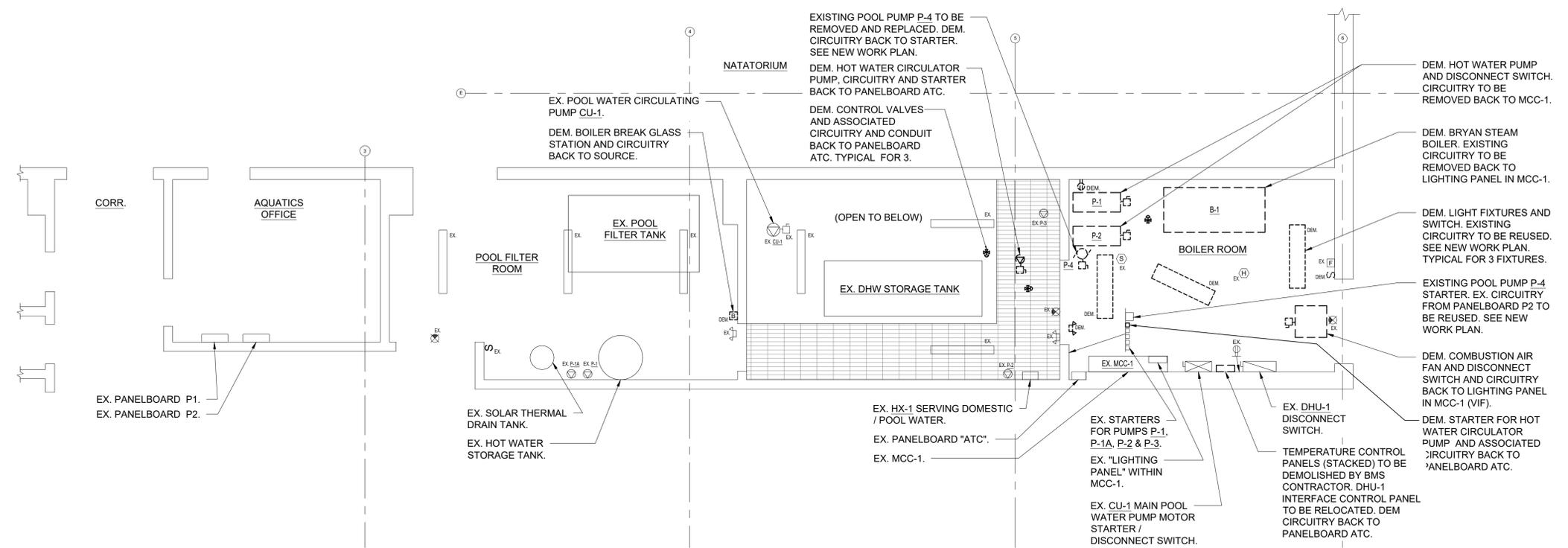
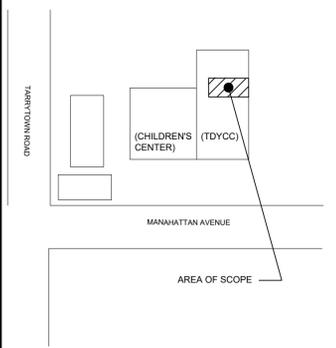
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1 ELECTRICAL BOILER ROOM DEMOLITION PLAN
 SCALE: 1/4" = 1'-0"

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DRAWING TITLE
**ELECTRICAL BOILER ROOM
 DEMOLITION PLAN**

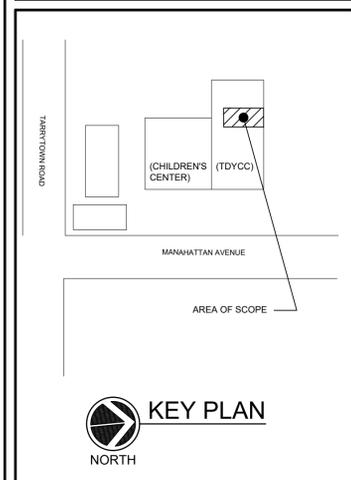
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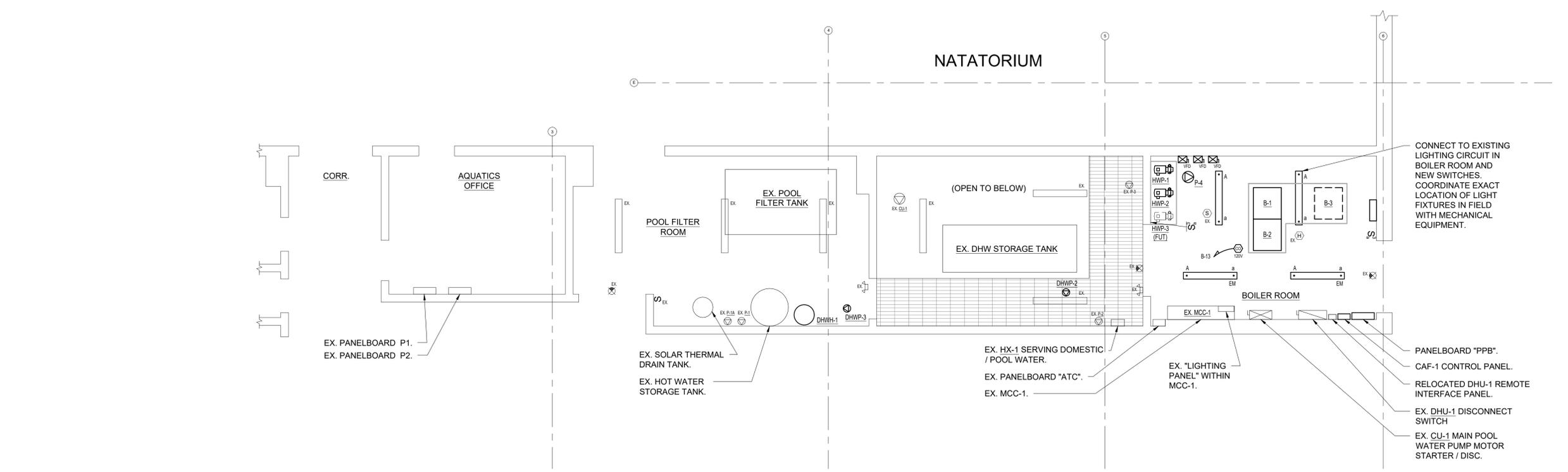
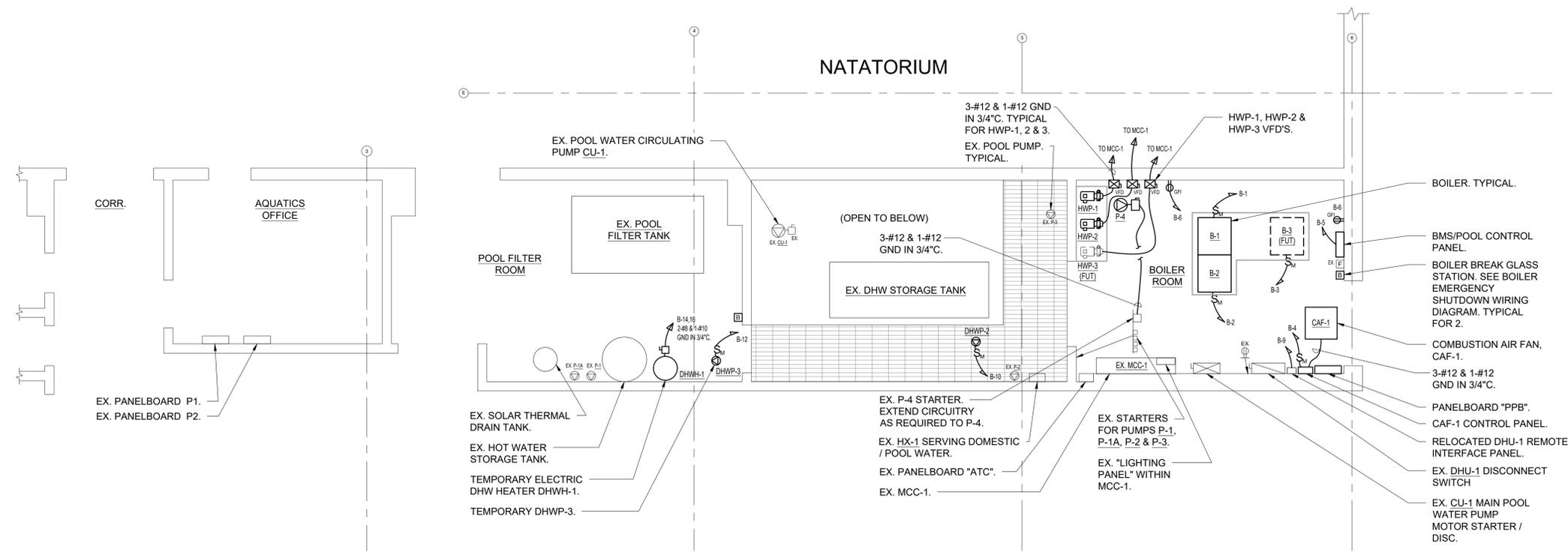
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NOTES:
 1.) PANELBOARD DESIGNATION HAS BEEN SHORTENED FOR CLARITY AS FOLLOWS:
 PPB = B

2.) ALL CABLE BETWEEN THE VFD'S AND MOTORS SHALL BE TYPE TC-ER, VFD CABLE. CABLE SHALL COMPLY WITH NEMA WC70/ICEA S-95-658, UL 1277 AND NFPA 70 FOR TYPE TC-ER CABLE. VFD CABLE SHALL BE: TYPE TC-ER WITH OVERSIZED CROSSLINKED POLYETHYLENE INSULATION, SPIRAL-WRAPPED FOIL PLUS 85 PERCENT COVERAGE BRAIDED SHIELDS AND INSULATED FULL-SIZE GROUND WIRE, AND SUNLIGHT AND OIL-RESISTANT OUTER PVC JACKET.



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DRAWING TITLE
**ELECTRICAL BOILER ROOM
 NEW WORK PLANS**

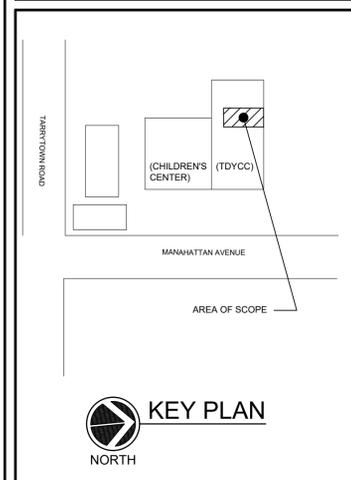
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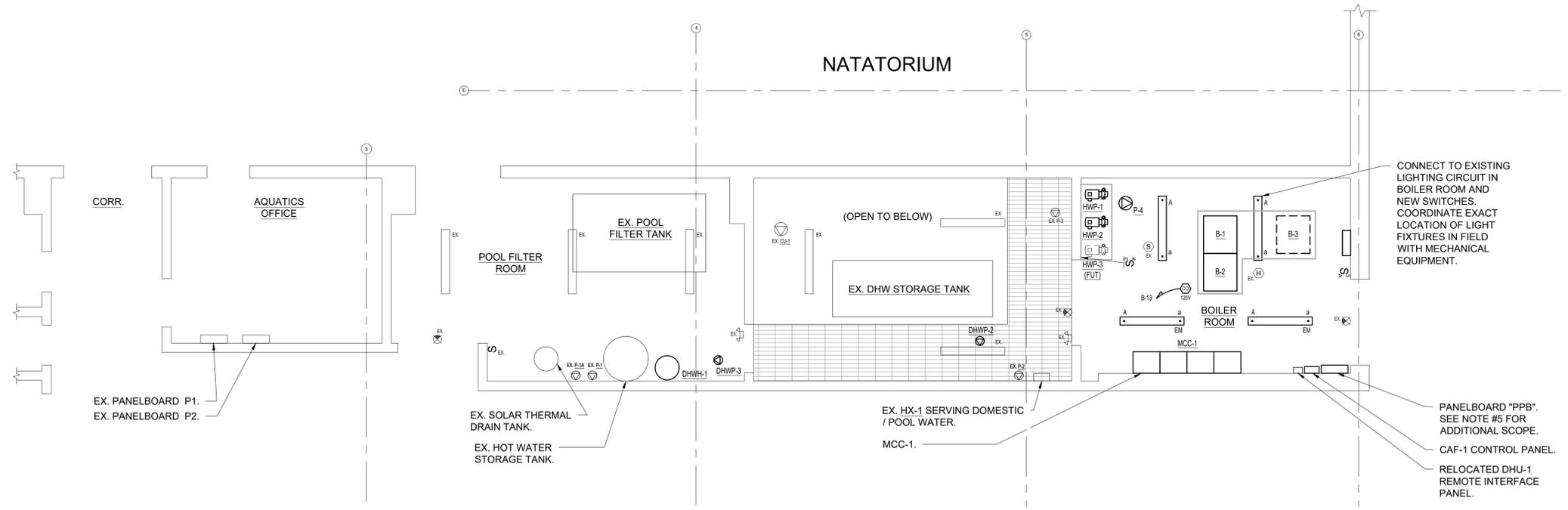
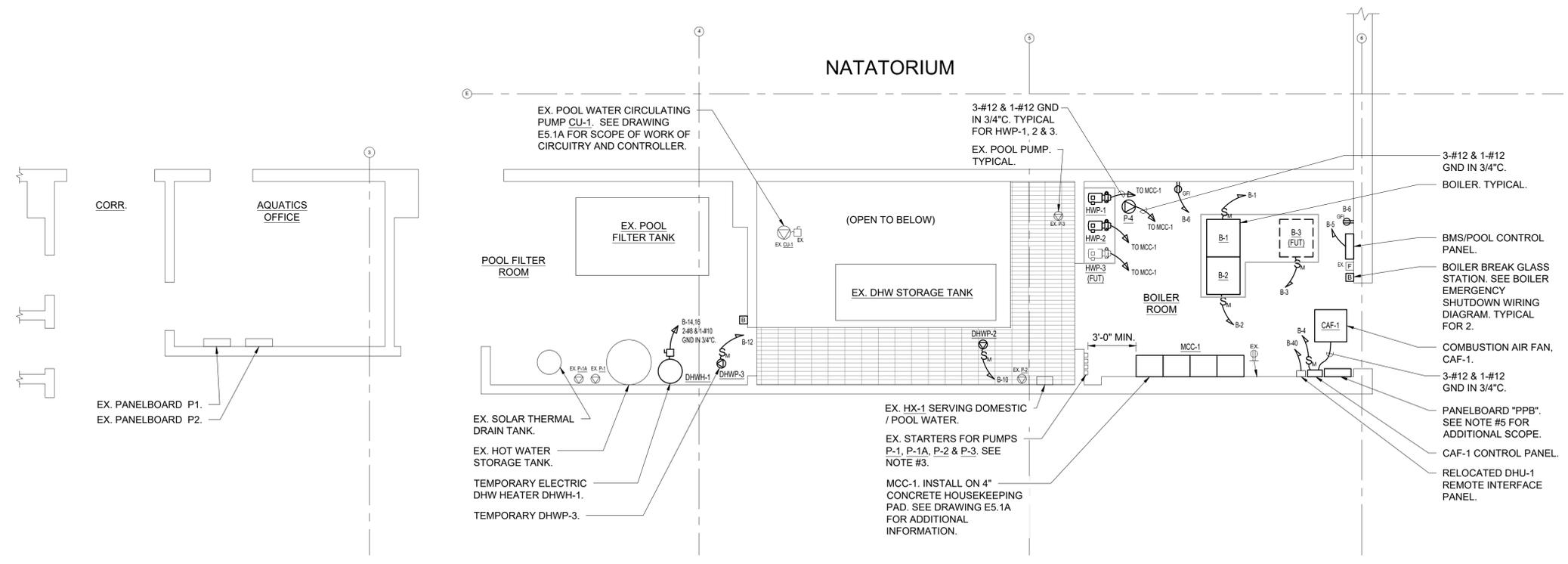
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DRAWING TITLE
**ELECTRICAL BOILER ROOM
 NEW WORK PLANS
 (ADD ALTERNATE #1)**

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	CHECKED BY	E3.1A
	DS	
	DATE	
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- NOTES:**
- PANELBOARD DESIGNATION HAS BEEN SHORTENED FOR CLARITY AS FOLLOWS:
 PPB = B
 - ALL CABLE BETWEEN THE VFD'S AND MOTORS SHALL BE TYPE TC-ER, VFD CABLE. CABLE SHALL COMPLY WITH NEMA WC70/ICEA S-95-658, UL 1277 AND NFPA 70 FOR TYPE TC-ER CABLE. VFD CABLE SHALL BE: TYPE TC-ER WITH OVERSIZED CROSSLINKED POLYETHYLENE INSULATION, SPIRAL-WRAPPED FOIL PLUS 85 PERCENT COVERAGE BRAIDED SHIELDS AND INSULATED FULL-SIZE GROUND WIRE, AND SUNLIGHT AND OIL-RESISTANT OUTER PVC JACKET.
 - MOTOR STARTERS FOR P-1, P-1A, P-2 & P-3 SHALL BE REFERRED FROM PANELBOARD "PPB". 2-#12 & 1-#12 GND IN 3/4". SEE PANELBOARD PPB SCHEDULE FOR ADDITIONAL INFORMATION. TYPICAL.
 - SEE DRAWING E1.1A & E5.1A DOR DHU-1 LOCATION AND SCOPE OF WORK FOR FEEDER.
 - EXISTING CIRCUITS TO BE EXTENDED FROM DEMOLISHED "LIGHTING PANEL" WITHIN MCC. DEMOLISHED PANELBOARD "ATC" AND DEMOLISHED MCC TO PANELBOARD "PPB" ARE AS FOLLOWS:
 46-#12 AWG
 2-#6 AWG
 1-#10 AWG
 VERIFY QUANTITIES AND SIZES IN FIELD. PROVIDE JUNCTION BOXES AS REQUIRED.



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DRAWING TITLE
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 NEW WORK PLANS
 (ADD ALTERNATE #1)**

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	DATE	
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LIGHTING FIXTURE SCHEDULE						
FIXTURE DESIGNATION	MANUFACTURER	CATALOG NUMBER	LAMPS	VOLTS	MOUNTING	REMARKS
A	LITHONIA LIGHTING	FEM L48 4000LM LPPCL MD MVOLT GZ10 35K 80CRI E10WMCP	(1) 23.8W LED	120V	PENDANT	4FT PENDANT MOUNTED LOW PROFILE VAPOR TIGHT GASKETED LED LIGHT FIXTURE. PROVIDE EM OPTION FOR 90 MINUTES OF BATTERY BACKUP TIME, WHERE INDICATED ON PLANS. PROVIDE MOUNTING HARDWARE AS REQUIRED.

NOTES:

- 1.) VERIFY ALL FIXTURE CATALOG NUMBERS FOR INTENDED APPLICATIONS WITH REQUIRED ACCESSORIES.
- 2.) LIGHT FIXTURES INDICATED AS EMERGENCY (EM) ON DRAWINGS SHALL CONTAIN AN EMERGENCY BACK-UP BATTERY WHERE POSSIBLE THE SHALL BE INTERNAL TO FIXTURE WITH A VISUAL INDICATING CHARGE LAMP AND TEST SWITCH. IF IT IS NOT POSSIBLE TO INSTALL THE EMERGENCY BATTERY IN THE FIXTURE, THE CONTRACTOR SHALL FURNISH & INSTALL A REMOTE EMERGENCY BATTERY. EACH BATTERY PACK SHALL BE CONNECTED SO THAT THE FIXTURE CAN BE SWITCHED UNDER NORMAL CONDITIONS AND IN THE EVENT OF A POWER OUTAGE, THE FIXTURE SHALL AUTOMATICALLY ILLUMINATE FOR 90 MINUTES WITH A 1200 LUMEN OUTPUT (TOTAL FROM FIXTURE), MINIMUM.
- 3.) IN THE EVENT THE CONTRACTOR CHOOSES TO SUBSTITUTE LIGHT FIXTURES FOR THOSE THAT ARE SPECIFIED ON THE LIGHT FIXTURE SCHEDULE, THE CONTRACTOR SHALL SUBMIT POINT-TO-POINT PHOTOMETRIC CALCULATIONS FOR ALL AREAS WHERE THE SUBSTITUTED FIXTURES ARE INDICATED TO BE INSTALLED ON THE DRAWINGS. THESE CALCULATIONS SHALL BE SUBMITTED ALONG WITH THE LIGHT FIXTURE SHOP DRAWINGS.

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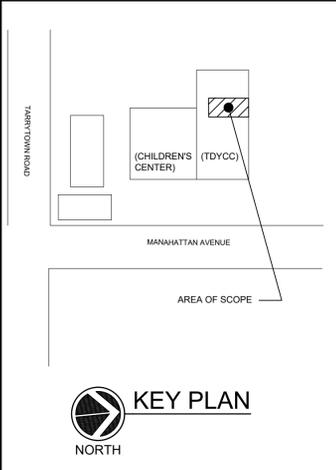
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PPB PANEL SCHEDULE							
MAIN RATING: 125A		MAIN C.B.: MLO		KAIC RATING: 22KAIC			
VOLTAGE: 208Y/120V		PHASE: 3		WIRE: 4		MOUNTING: SURFACE	
CIRC. NO.	LOAD DESCRIPTION	BKR. AMPS	NO. OF POLES	NO. OF POLES	BKR. AMPS	LOAD DESCRIPTION	CIRC. NO.
1	B-1	20	1	1	20	B-2	2
3	B-3 (FUTURE)	20	1	1	25	CAF-1	4
5	BMS/POOL CONTROL PANEL	20	1	1	20	GFI RECP	6
7	BMS/POOL CONTROL PANEL	20	1	1	15	BOILER BREAKGLASS STATIONS	8
9	DHU-1 REMORE INTERFACE PANEL	20	1	1	15	DHWP-2	10
11	-	-	-	1	15	TEMPORARY DHWP-3	12
13	120V CARBON MONOXIDE ALARM	15	1	2	40	TEMPORARY DHWH-1	14
15	-	-	-	-	-	-	16
17	-	-	-	-	-	-	18
19	-	-	-	-	-	-	20
21	-	-	-	-	-	-	22
23	-	-	-	-	-	-	24
25	-	-	-	-	-	-	26
27	-	-	-	-	-	-	28
29	-	-	-	-	-	-	30
31	-	-	-	-	-	-	32
33	-	-	-	-	-	-	34
35	SPARE	20	1	1	20	SPARE	36
37	SPARE	20	1	1	20	SPARE	38
39	SPARE	20	1	1	20	SPARE	40
41	SPARE	20	1	1	20	SPARE	42

LK - PROVIDE LOCKING TABS ON C.B.; GF - GFI TYPE C.B.; GP - GFP TYPE C.B.

NOTES:



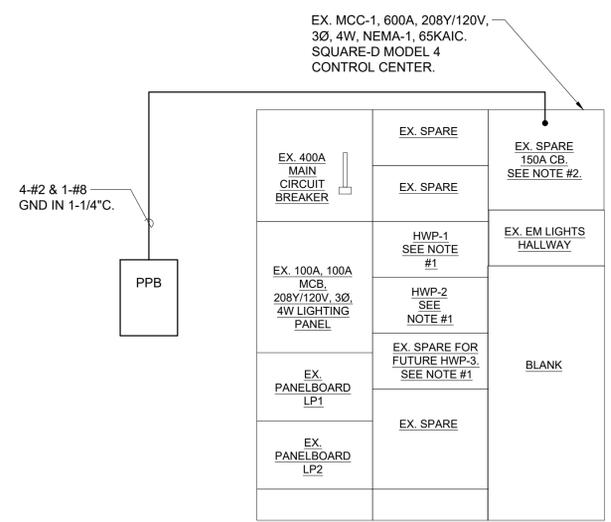
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DRAWING TITLE
**ELECTRICAL PARTIAL
 ONE-LINE DIAGRAM
 AND SCHEDULES**

SEAL	SCALE AS NOTED	PROJECT NO. NTOG0011.00
	DRAWN BY CT	DRAWING NO.
	CHECKED BY DS	E5.1
	DATE 3/26/21	



NOTES:

- 1.) EXISTING STARTER COMPARTMENT TO BE REMOVED AND REPLACED WITH POWER DISTRIBUTION COMPARTMENT WITH 3P-30A CB FOR REPLACEMENT HOT WATER PUMPS.
- 2.) REPLACE EXISTING 3P-150A CB IN SPARE POWER DISTRIBUTION COMPARTMENT WITH A 3P-100A CB.

1 ELECTRICAL PARTIAL ONE-LINE DIAGRAM / MCC ELEVATION
 SCALE: NONE

MCC-1 MOTOR CONTROL CENTER SCHEDULE

NAME: MCC-1		LOCATION: BOILER ROOM		KAIC RATING: 22KAIC		WIRE: 4				
MAIN RATING: 600A		MAIN CB: 400A		VOLTAGE: 208Y/120V		PHASE: 3				
COMPARTMENT	DESIGNATION	HP	FLA	NEMA RATING	CB SIZE/ POLE(S)	STARTER TYPE	FEEDER			REMARKS
							WIRE	GROUND	CONDUIT	
1	MAIN SWITCH	N/A	N/A	N/A	3P-400A	N/A	-	-	-	REUTILIZE EX. FEED FROM MAIN ELECTRIC RM. 2 SETS 4-#3/0 IN (2) 2" C.
2	PANELBOARD PPB	N/A	N/A	N/A	3P-100A	N/A	4-#2	1-#8	1-1/4" C	-
3	PANELBOARD LP1	N/A	N/A	N/A	3P-100A	N/A	4-#2	1-#8	1-1/4" C	EXISTING LOAD. EXTEND FEEDERS AS REQUIRED.
4	PANELBOARD LP2	N/A	N/A	N/A	3P-100A	N/A	4-#2	1-#8	1-1/4" C	EXISTING LOAD. EXTEND FEEDERS AS REQUIRED.
5	HWP-1	3	10.6A	N/A	3P-30A	VFD	3-#12	1-#12	VFD CABLE	3 CONTACTOR BY-PASS WITH MANUAL SELECTOR SWITCH OR DIGITAL TOUCH PAD, FULL VOLTAGE BYPASS CONTACTORS.
6	HWP-2	3	10.6A	N/A	3P-30A	VFD	3-#12	1-#12		
7	HWP-3 (FOR FUTURE PUMP)	3	10.6A	N/A	3P-30A	VFD	3-#12	1-#12		
8	P-4	2	7.5A	NEMA-1	3P-20A	FULL VOLTAGE, NONREVERSING	3-#12	1-#12	3/4" C	-
9	CU-1 (POOL PUMP STARTER)	15	46.2A	NEMA-3	3P-110A	FULL VOLTAGE, NONREVERSING	3-#4	1-#6	1" C	-
10	DHU-1 (RTU DISC. SW)	N/A	N/A	N/A	3P-400A	N/A	3-#250MCM	1-#4	2-1/2" C	-

NOTES:

LIGHTING FIXTURE SCHEDULE

FIXTURE DESIGNATION	MANUFACTURER	CATALOG NUMBER	LAMPS	VOLTS	MOUNTING	REMARKS
A	LITHONIA LIGHTING	FEM L48 4000LM LPPCL MD MVOLT GZ10 35K 80CRI E10WMCP	(1) 23.8W LED	120V	PENDANT	4FT PENDANT MOUNTED LOW PROFILE VAPOR TIGHT GASKETED LED LIGHT FIXTURE. PROVIDE EM OPTION FOR 90 MINUTES OF BATTERY BACKUP TIME, WHERE INDICATED ON PLANS. PROVIDE MOUNTING HARDWARE AS REQUIRED.

NOTES:

- VERIFY ALL FIXTURE CATALOG NUMBERS FOR INTENDED APPLICATIONS WITH REQUIRED ACCESSORIES.
- LIGHT FIXTURES INDICATED AS EMERGENCY (EM) ON DRAWINGS SHALL CONTAIN AN EMERGENCY BACK-UP BATTERY WHERE POSSIBLE THE SHALL BE INTERNAL TO FIXTURE WITH A VISUAL INDICATING CHARGE LAMP AND TEST SWITCH. IF IT IS NOT POSSIBLE TO INSTALL THE EMERGENCY BATTERY IN THE FIXTURE, THE CONTRACTOR SHALL FURNISH & INSTALL A REMOTE EMERGENCY BATTERY. EACH BATTERY PACK SHALL BE CONNECTED SO THAT THE FIXTURE CAN BE SWITCHED UNDER NORMAL CONDITIONS AND IN THE EVENT OF A POWER OUTAGE, THE FIXTURE SHALL AUTOMATICALLY ILLUMINATE FOR 90 MINUTES WITH A 1200 LUMEN OUTPUT (TOTAL FROM FIXTURE), MINIMUM.
- IN THE EVENT THE CONTRACTOR CHOOSES TO SUBSTITUTE LIGHT FIXTURES FOR THOSE THAT ARE SPECIFIED ON THE LIGHT FIXTURE SCHEDULE, THE CONTRACTOR SHALL SUBMIT POINT-TO-POINT PHOTOMETRIC CALCULATIONS FOR ALL AREAS WHERE THE SUBSTITUTED FIXTURES ARE INDICATED TO BE INSTALLED ON THE DRAWINGS. THESE CALCULATIONS SHALL BE SUBMITTED ALONG WITH THE LIGHT FIXTURE SHOP DRAWINGS.

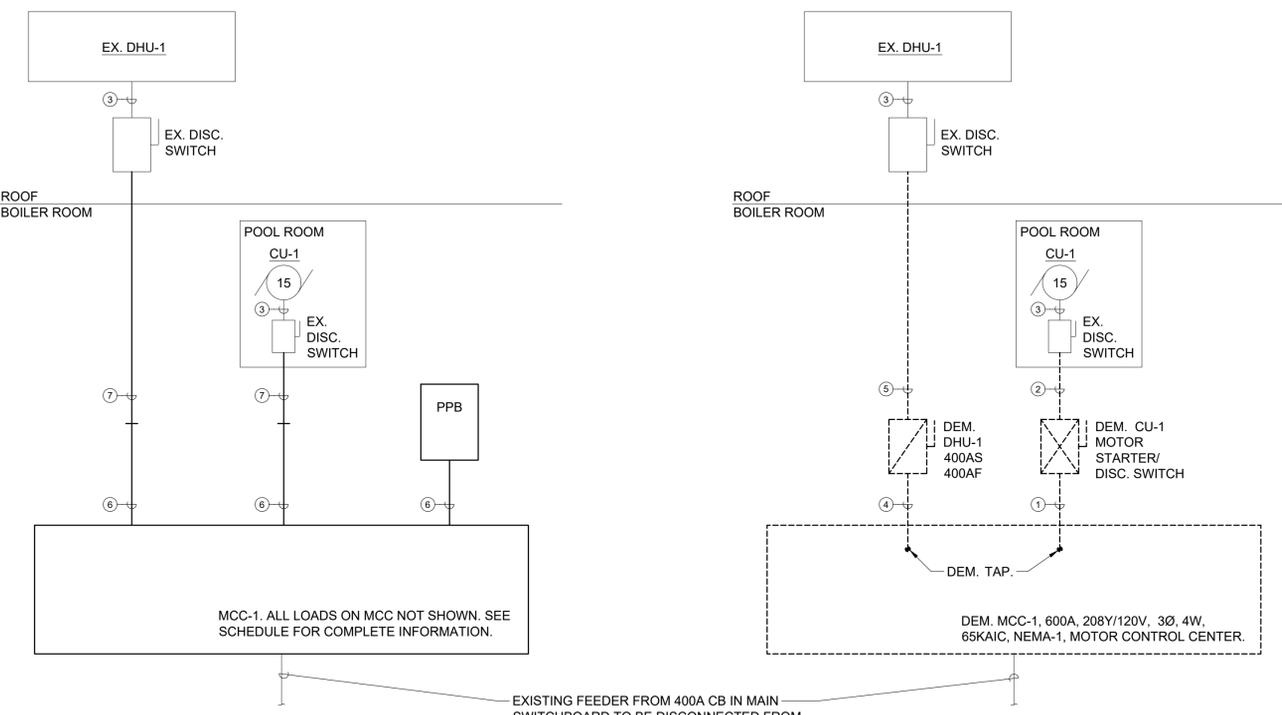
PPB PANEL SCHEDULE

MAIN RATING: 225A		MAIN C.B.: MLO		KAIC RATING: 22KAIC			
VOLTAGE: 208Y/120V		PHASE: 3		WIRE: 4 MOUNTING: SURFACE			
CIRC. NO.	LOAD DESCRIPTION	BKR. AMPS	NO. OF POLES	NO. OF POLES	BKR. AMPS	LOAD DESCRIPTION	CIRC. NO.
1	B-1	20	1	1	20	B-2	2
3	B-3 (FUTURE)	20	1	1	25	CAF-1	4
5	BMS/POOL CONTROL PANEL	20	1	1	20	GFI RECP	6
7	BMS/POOL CONTROL PANEL	20	1	1	15	BOILER BREAKGLASS STATIONS	8
9	DHWP-1 (TEMP)	15	1	1	15	DHWP-2	10
11	CIRC. PUMP AQUISTAT	20**	1	1	15	DHWP-3 (TEMP)	12
13	120V CARBON MONOXIDE ALARM	15	1	2	40	TEMPORARY DHWH-1	14
15	P-1 STARTER	20**	1				16
17	P-1A STARTER	20**	1	1	20**	P-3 STARTER	18
19	P-2 STARTER	20**	1	1	20**	EX. HWP POOL RM	20
21				1	20GF*	BOILER RM RECP	22
23	RTU-1 CONDENSER ROOF	30*	3	1	20GF*	MECH RM RECP	24
25				1	20*	EM LTS DECK	26
27	PUMP DISPLAY PANEL	20*	1	1	20*	EM LTS DECK	28
29	LOW LEVEL WATER CONTROLLER	15*	1	1	20*	PUMP PIT & BOILER RM LTS	30
31	PUMP PIT RM GFI RECP	20*	1	2	50*	EX. LOAD	32
33	BOOSTER PUMP	20GF*	1				34
35	FILTER RM RECP	20*	1	1	20***	EM LTS HALLWAY	36
37	EX. LOAD	20*	1	1	20GF*	EX. LOAD	38
39	EX. LOAD	20*	1	1	20	DHU-1 REMOTE INTERFACE PANEL	40
41	-	-	-	-	-	-	42
43	-	-	-	-	-	-	44
45	-	-	-	-	-	-	46
47	SPARE	20	1	1	20	SPARE	48
49	SPARE	20	1	1	20	SPARE	50
51	SPARE	20	1	1	20	SPARE	52
53	SPARE	20	1	1	20	SPARE	54

LK - PROVIDE LOCKING TABS ON C.B.; GF - GFI TYPE C.B.; GP - GFP TYPE C.B.

NOTES:

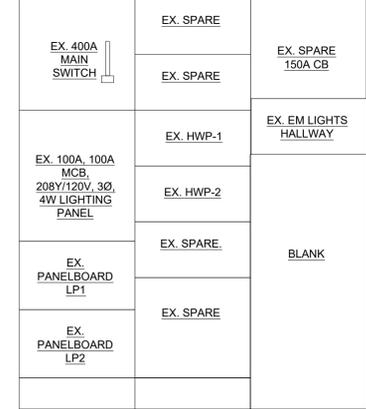
- * - EXTEND CIRCUITRY AS REQUIRED FROM DEMOLISHED LIGHTING PANEL (IN OLD MCC) TO THIS PANELBOARD.
- ** - EXTEND CIRCUITRY AS REQUIRED FROM DEMOLISHED PANEL ATC TO THIS PANELBOARD.
- *** - EXTEND CIRCUITRY AS REQUIRED FROM DEMOLISHED MCC TO THIS PANELBOARD.



3 ELECTRICAL PARTIAL NEW WORK ONE-LINE DIAGRAM
SCALE: NONE

2 ELECTRICAL PARTIAL DEMOLITION ONE-LINE DIAGRAM
SCALE: NONE

EXISTING MCC-1, 600A, 208Y/120V, 3Ø, 4W, NEMA-1, 65KAIC, SQUARE-D MODEL 4 CONTROL CENTER.



1 EXISTING MCC ELEVATION
SCALE: NONE

WIRING/CONDUIT LEGEND:

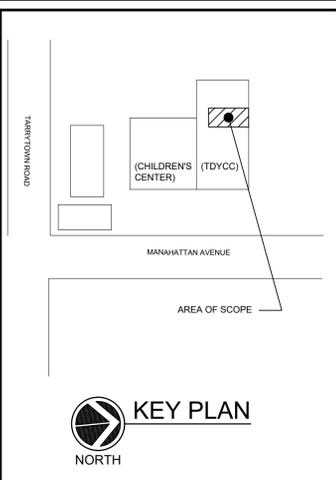
- DEM. 3-#4 & 1-#6 GND IN 1" C.
- DEM. 3-#4 & 1-#6 GND IN EX. 1" C. EX. 1" C TO BE REUSED.
- EXISTING CONDUIT AND WIRE.
- DEM. 3-#250MCM & 1-#4 GND IN 2-1/2" C.
- DEM. 3-#250MCM & 1-#4 GND IN EX. 2-1/2" C. EX. 2-1/2" C TO BE REUSED.
- NEW CONDUIT AND CONDUCTORS.
- NEW CONDUCTORS IN EX. CONDUITS.

NOTES:

- ALL EQUIPMENT IS 3-POLE, UON.
- SEE MCC-1 SCHEDULE FOR ADDITIONAL INFORMATION.

CLIENT

TOWN OF GREENBURGH
 177 HILLSIDE AVE
 GREENBURGH, NY 10607



No.	ISSUE OR REVISION	DATE
3	ISSUED FOR BID	7/2/21
2	ISSUE FOR PROGRESS	5/14/21
1	ISSUED FOR PROGRESS	3/26/21

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PROJECT TITLE
**TOWN OF GREENBURGH
 THEODORE D. YOUNG
 COMMUNITY CENTER
 BOILER PLANT REPLACEMENT**
 32 MANHATTAN AVENUE
 WHITE PLAINS, NY 10607

DRAWING TITLE
**ELECTRICAL PARTIAL
 ONE-LINE DIAGRAM
 AND SCHEDULES
 (ADD ALTERNATE #1)**

SCALE	AS NOTED	PROJECT NO.
DRAWN BY	CT	NTOG0011.00
CHECKED BY	DS	DRAWING NO.
DATE	3/26/21	E5.1A

