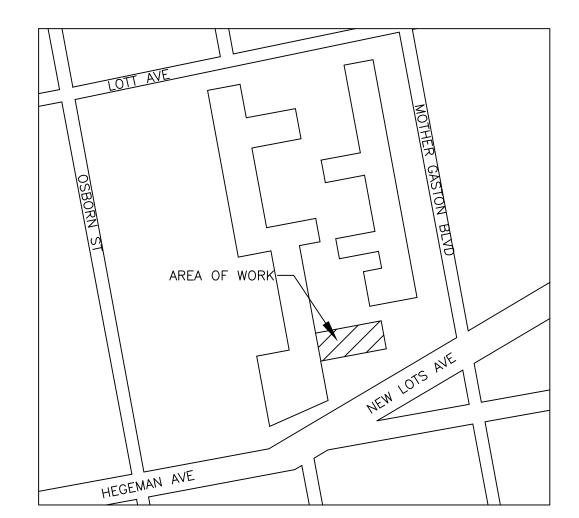
PLAZA RESIDENCES 25 NEW LOTS AVE COGENERATION SYSTEM

(BLOCK 3628, LOT 1)

DRAWING INDEX.

DRAWING INI SHEET NO.	<u>TITLE OF DRAWING</u>
T-101.00	TITLE SHEET, GENERAL NOTES & MECHANICAL SYMBOL LIST
G-101.00	ENERGY ANALYSIS
M-101.00 M-201.00 M-201.00 M-301.00	HVAC SCHEDULES/FLOW DIAGRAM CELLAR MECHANICAL PIPING AND FLUE LAYOUT CELLAR HOT AIR EXHAUST LAYOUT MECHANICAL/HVAC DETAILS
P-101.00 P-201.00	CELLAR PLUMBING/GAS PIPING LAYOUT GAS RISER DIAGRAM & PLUMBING DETAILS
E-101.00 E-102.00 E-201.00	COGENERATION CELLAR ELECTRICAL PARTIAL PLAN-1 COGENERATION CELLAR ELECTRICAL PARTIAL PLAN-2 COGENERATION ELECTRICAL ONE LINE





REVIEWER NOTE:

DRAWINGS ARE TO BE READ, NOT SCALED.

EGRESS OR OCCUPANCY.

ALL CONDITIONS ARE EXISTING EXCEPT AS NOTED.

THE SCOPE OF WORK FOR THIS PROJECT INCLUDES THE INSTALLATION OF THREE (3) 35KW MODULAR COGENERATION MODULES TO GENERATE HEAT AND ELECTRICITY FOR PLAZA RESIDENCES, 25 NEW LOTS AVE, NEW YORK, NEW YORK, 11212

ALL WORK SHALL CONFORM TO THE 2016 NEW YORK CITY BUILDING CODE.

SPECIFICATIONS ARE IN CONFORMANCE WITH THE 2016 NYC ENERGY CONSERVATION

MODULE MEETS EFFICIENCY REQUIREMENTS. SEE ENERGY ANALYSIS ON SHEET G-1.

THESE PLANS ARE APPROVED ONLY FOR THE WORK INDICATED ON THE APPLICATION

CONSTRUCTION CODE. PIPING HAVE BEEN SPECIFIED TO BE INSULATED WITH R-3

TO THE BEST OF OUR KNOWLEDGE, BELIEF, AND PROFESSIONAL JUDGMENT, SUCH PLANS AND

INSULATION, DOMESTIC HOT WATER STORAGE TANKS HAVE R-13 INSULATION AND COGENERATION

SPECIFICATION SHEET. ALL OTHER MATTERS SHOWN ARE NOT TO BE RELIED UPON OR TO BE

CONSIDERED EITHER APPROVED OR IN ACCORDANCE WITH APPLICABLE CODE. NO CHANGE IN USE,

ADDRESS: 25 NEW LOTS AVE <u> BUILDINGS: 3</u> # FLOORS: 6 & 1 BELOW GRADE GROSS AREA: 245,538 DWELLING UNITS: 385

EAR OF CONSTRUCTION: 1969

GENERAL NOTES

- CONTRACTOR TO VERIFY ALL DIMENSIONS IN FIELD PRIOR TO CONSTRUCTION, AND REPORT TO ENGINEER ALL ERRORS, DISCREPANCIES, OMISSIONS, DEFECTS, OR UNUSUAL WORK CONDITIONS BEFORE COMMENCING CONSTRUCTION.
- 2. ALL WORK IS TO BE PERFORMED IN ACCORDANCE WITH THE APPLICABLE RULES AND REGULATIONS OF ALL GOVERNING AGENCIES INCLUDING BUT NOT LIMITED TO THE CODES AND REGULATIONS AS SET FORTH BY THE CITY OF NEW YORK AND STATE OF NEW YORK.
- 3. CONTRACTOR TO SECURE ALL NECESSARY PERMITS REQUIRED FOR THE STIPULATED WORK PRIOR TO COMMENCING WITH CONSTRUCTION OR DEMOLITION.
- 4. ALL ASBESTOS REMOVAL, PLUMBING, ELECTRICAL, WELDING WORK, ETC. TO BE PERFORMED BY LICENSED CONTRACTORS SUBCONTRACTED BY AEGIS ENERGY SERVICES.
- 5. ALL CONTRACTORS, WORKMEN, AND AGENTS WORKING AT OR VISITING THE SITE SHALL BE COVERED BY ALL NECESSARY STATUTORY INSURANCE INCLUDING LIABILITY, WORKMEN'S COMPENSATION, DISABILITY, ETC.
- 6. ALL WORK SHALL BE PERFORMED IN A NEAT, CLEAN, ORDERLY MANNER AND THE SITE KEPT CLEAN FROM DUST AND DEBRIS AT ALL TIMES.
- 7. CONTRACTORS TO PROVIDE ALL NECESSARY TEMPORARY LIGHTING, POWER, WATER, WATERPROOFING, ETC. NEEDED TO ENSURE PROJECT SAFETY AT ALL TIMES.
- 8. CONTRACTORS TO PROVIDE ALL NECESSARY SHORING, BRIDGING, BARRICADES, SIGNS, ETC. NEEDED TO ENSURE PROJECT SAFETY AT ALL TIMES.
- 9. ALL WORK, INCLUDING TESTING AND TEMPORARY SHUT DOWN OF SERVICES IS TO BE COORDINATED WITH OWNER'S SCHEDULE FOR DELIVERIES, WORKDAYS, TIMES, ETC.
- 10. ALL NEW WORK TO BE THOROUGHLY TIED AND BONDED TO EXISTING WORK
- 11. ALL PATCHING AND JOINING SHALL BE NEAT, CLEAN, AND SQUARE, MATCHING ADJACENT SURFACES IN FINISH AND TEXTURE.
- 12. ALL FIRE RETARDANT MATERIALS SHALL BEAR STAMPS, SEALS, AND/OR PERMANENT LABELS AS REQUIRED. AFFIDAVITS SHALL BE PROVIDED WHEN REQUESTED.
- 13. ALL WORK TO BE PLUMB, LEVEL, AND TO THE BEST OF WORKMANSHIP
- 14. CONTRACTOR TO FULLY COORDINATE HIS WORK AND EFFORTS WITH OTHER TRADES TO ENSURE A NEAT, PROPER, DIMENSIONALLY ACCURATE JOB IN ALL RESPECTS TO RELATED WORK.
- 15. THE JOB SHALL BE ADEQUATELY STAFFED AT ALL TIMES TO ENSURE CONTINUITY AND PROGRESS, WITH ALL PHASES/SEGMENTS OF WORK PROPERLY COORDINATED.
- 16. ALL DEFECTIVE OR UNACCEPTABLE WORK SHALL BE REMOVED AND REPLACED, INCLUDING ANY SURROUNDING AFFECTED AREAS, AT NO ADDITIONAL COST TO THE OWNER.
- 17. CONTRACTOR TO SUBMIT SHOP DRAWINGS AND SAMPLES FOR ENGINEER'S APPROVAL WHERE REQUIRED BY DOCUMENTS PRIOR TO PROCEEDING WITH WORK 18. ALL WORK, UNLESS OTHERWISE SPECIFIED, TO BE GUARANTEED FOR A MINIMUM OF ONE YEAR FROM FINAL
- ACCEPTANCE. 19. ANY MATERIAL COMPOSITION WHICH IS QUESTIONABLE SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER. THE DETERMINATION OF THE ACCEPTABILITY OF ALL MATERIALS SHALL BE AT THE SOLE DISCRETION OF THE ENGINEER.
- 20. ANY CONFLICT BETWEEN THE SPECIFICATIONS AND DRAWINGS IS TO BE BROUGHT TO THE ATTENTION OF THE ENGINEER PRIOR TO WORK.
- 21. ALL PIPES TO BE INSULATED WITH 1" HEAVY DENSITY FIBERGLASS INSULATION WITH ALL SURFACE JACKET.
- 22. ALL PIPING TO BE HARD COPPER "L" GRADE UNLESS OTHERWISE SPECIFIED

TENANT PROTECTION PLAN:

- 1. THE BUILDING CONTAINS SPACES WHICH WILL BE OCCUPIED DURING CONSTRUCTION.
- EGRESS: DURING THE COURSE OF CONSTRUCTION EGRESS FROM ALL FLOORS SHALL BE MAINTAINED AT ALL TIMES.
- FIRE SAFETY: ALL REQUIRED PRECAUTIONS WILL BE TAKEN TO PROVIDE FIRE SAFETY DURING CONSTRUCTION.
- HEALTH REQUIREMENTS: DUST SHALL BE KEPT AT A MINIMUM AND SHALL BE REMOVED AT THE END OF EACH WORKING DAY. CONSTRUCTION DEBRIS SHALL BE DISPOSED IN A SAFE MANNER. CONSTRUCTION NOISE WILL BE CEASED AFTER NORMAL WORKING HOURS. NOISE SHALL BE LIMITED TO ACCEPTABLE LIMITS. SANITARY FACILITIES SHALL BE PROVIDED AT ALL TIMES. PEST CONTROL SHALL BE PROVIDED AT ALL TIMES DURING THE COURSE OF CONSTRUCTION.
- THE CONTRACTOR SHALL COMPLY WITH APPLICABLE LAWS RELATING TO LEAD AND ASBESTOS. IN CASE LEAD OR ASBESTOS ARE FOUND THE OWNER OR ENGINEER SHALL BE INFORMED IMMEDIATELY.
- ELECTRICAL, GAS OR OTHER UTILITIES SHALL NOT BE INTERRUPTED DURING CONSTRUCTION. CONTRACTOR OR OWNER SHALL NOTIFY THE TENANT IN WRITING BEFORE ANY INTERRUPTION OF SERVICES IS PERFORMED.
- 7. BUILDING SECURITY SHALL BE MAINTAINED TO PREVENT UNAUTHORIZED PERSONS FROM ENTERING THE BUILDING.
- FLOORS SHALL NOT BE OVERLOADED BEYOND PERMISSIBLE LIMITS.
- NO STRUCTURAL WORK SHALL BE PERFORMED WHICH MAY ENDANGER THE OCCUPANTS.
- CONSTRUCTION OPERATION SHALL BE CONFINED TO NORMAL WORKING HOURS: 8:00 A.M. THROUGH 5:00 P.M. MONDAY THROUGH FRIDAY, EXCEPT LEGAL HOLIDAYS, UNLESS AUTHORIZED IN WRITING BY OWNERS.

SPECIAL/PROGRESS INSPECTION REQUIREMENTS:

THE FOLLOWING ITEMS OF WORK SHALL BE SUBJECT TO SPECIAL AND/OR PROGRESS INSPECTION, MADE AND WITNESSED BY OR UNDER THE DIRECT SUPERVISION OF AN ARCHITECT OR ENGINEER RETAINED BY THE CONTRACTOR WHO SHALL BE QUALIFIED TO PERFORM SUCH INSPECTIONS. A TEST REPORT AND CERTIFICATE OF INSPECTION SHALL BE FILED WITH THE BUILDING DEPARTMENT

- BC 1704.16 MECHANICAL SYSTEMS 2. HEATING SYSTEMS - BC 1704.25
- 3. FIRESTOP, DRAFTSTOP & FIREBLOCK BC 1704.27

SPECIAL INSPECTIONS/PROGRESS (TR-1) ENERGY CODE COMPLIANCE INSPECTIONS (TR-8) MECHANICAL SYSTEMS HVAC & SERVICE WATER HEATING EQUIPMENT ✓ HEATING SYSTEMS HVAC & SERVICE WATER HEATING CONTROLS FIRE-RESISTANT PENETRATIONS AND JOINTS DUCT PLENUM AND PIPING INSULATION & SEALING BC 1704.27 ☑ ENERGY CODE COMPLIANCE INSPECTION BC 110.3.5 ☑ MAINTENANCE INFORMATION IID1

MECHANICAL SYMBOLS LIST

CIRCULATION PUMP TEMPERATURE SENSOR

BALL VALVE

BUTTERFLY VALVE UNION

THERMOMETER

PRESSURE RELIEF VALVE

AQUASTAT

STRAINER - Y TYPE

MANUAL AIR VENT

FLOW DIRECTION COGEN TEMPERATURE SENSOR

GATE VALVE

CHECK VALVE

→ FLOW CHECK

FAN/COIL UNIT

HEAT EXCHANGER

3-WAY VALVE

A: NORMALLY CLOSED B: NORMALLY OPEN AB: MIXED WATER

NORMALLY OPEN/ON NORMALLY CLOSED/OFF

CLOSED WINTER CLOSED SUMMER C.S.

POINT OF CONNECTION TO EXISTING

—cw—— COLD WATER (DOMESTIC) —cwf—— COLD WATER FILL

--HWS--- BUILDING HEAT SUPPLY

—DHWR— BUILDING DHW RETURN

-- DHWS-- BUILDING DHW CIRCULATION

—c— COGEN PROCESS LOOP PIPING

-CDHW- COGEN DHW SUPPLY —gs—— GLYCOL SUPPLY

— GR—— GLYCOL RETURN

—E—— COGEN EXHAUST PIPE

—g—— COGEN GAS LINE

TITLE SHEET, GENERAL NOTES & MECHANICAL SYMBOL LIST

PLAZA RESIDENCES

COGENERATION PROJECT

25 NEW LOTS AVE

BROOKLYN, NY 11212

REVISION DESCRIPTION

DATE

AREA OF WORK-

PROJECT LOCATION MAP

ALL DRAWINGS ARE TO

BE READ NOT SCALED

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BEARING THE SEAL OF AN ENGINEER/ARCHITECT IS ALTERED, THE ALTERING ENGINEER/ARCHITECT

SHALL AFFIX TO THIS ITEM THEIR SEAL AND THE

NOTATION "ALTERED BY", FOLLOWED BY HIS/HER SIGNATURE AND THE DATE OF SUCH ALTERATION ALONG WITH A SPECIFIC DESCRIPTION OF THE

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BECKER ENGINEERING, PC

777 SUNRISE HIGHWAY, SUITE 300

ALTERATION ON THE DRAWING.

AS A RESULT OF CONTRACTUAL

LYNBROOK, NY 11563

SUPPORT@BEPC.US

WEB: WWW.BEPC.US

PHONE: (516) 561-5922

FAX: (516) 823-0219 EMAIL:

PROPRIETARY STATEMENT:

PREPARED BY:

AEGIS ENERGY SERVICES, INC

55 JACKSON STREET

HOLYOKE, MA 01040

TEL.: 413-536-1156

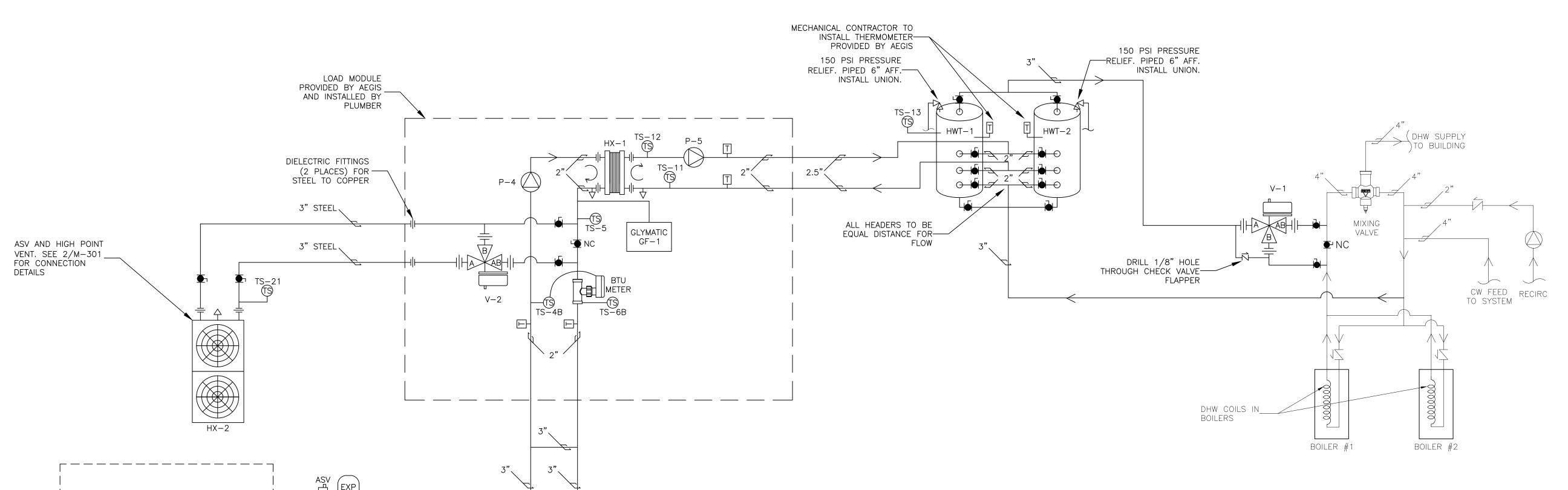
FAX: 413-536-1104

ATTN: KEVIN MAY

PROJECT NORTH

DESIGN	BY:	KM	DATE:	10/20/16
DRN BY	··	KM	DATE:	10/20/16
CKD BY	':	•	DATE:	•
FINAL CKD BY:			DATE:	
SCALE:	AS NOT	ED	DATE:	
DWG No).	Р	AGE 1 OF	9

T-001.01



GLYCOL FEED SYSTEM GF-1

UNIT NO

SERVICE

(GALLONS)

FLUID TYPE

ELECTRICAL

MODEL

MANUFACTURER

TANK CAPACTITY

GF-1

HOT WATER

40% P.G.

INDUSTRIES

MF200-S

AXIOM

120V/1PH/60

	CONTROL VALVE SCHEDULE					
ALVE NO.	SERVICE	FLOW TYPE	SIZE	VOLTAGE	VALVE MODEL	ACTUATOR
V-1	COGEN SELECTOR VALVE	ON/OFF	2"	24 V	SCHNEIDER VA2313-526-9-64	MS40-7043M ON/OFF
V-2	HEAT DISSIPATION VALVE	ON/OFF	2"	24 V	SCHNEIDER VA2313-526-9-64	MA40-7043M ON/OFF

		PUMP S	SCHEDULE	_		
PUMP NO.	SERVICE	FLOW	HEAD	H.P	PHASE	MODEL
P-1	COGEN MODULE	40 GPM	15 FT	1/5	1	GRUNDFOS 43-100 F
P-2	COGEN MODULE	40 GPM	15 FT	1/5	1	GRUNDFOS 43-100 F
P-3	COGEN MODULE	40 GPM	15 FT	1/5	1	GRUNDFOS 43-100 F
P-4	PRIMARY LOOP	120 GPM	40 FT	3	3	GRUNDFOS 80-160/2
P-5	DHW LOOP	100 GPM	45 FT	3	3	GRUNDFOS 80-160/2B

DHW STORAGE TANK SCHEDULE (HWT-1,2)

600 LBS

VERTICAL

TJV-120M

WATTS 1 174A-150

GLASS

30"

62"

120 GALLONS

DESIGN MANUFACTURER | AO SMITH

CAPACITY

LINING

DIAMTER

LENGTH

MODEL

PRESSURE

RELIEF VALVE

MAX OPERATING

ORIENTATION

5	GRONDI 03 00-100	'/ '		13-21	TILAI L	JISSIF ATIO	IN
3	GRUNDFOS 80-160/2B			TS-6B	COGEN	RETURN	
					•		
	HEAT E	XCHAN	IGER:	S HX-	1		
	DESIGN MANUFACTU	RER	API	HEAT T	RANSFER		DES
	MODEL		SB7I	L-60			FUE
	TYPE		BRAZ	ZED PLA	ATE		FUE
	MATERIAL		COP	PER			THE
	SERVICE						ELE
	SIDE	Н	IOT		COLD		GEN
	FLUID TYPE	WATER		WAT	ER		ACC
	FLUID FLOW	120 G			GPM		VIBI
	TEMPERATURE IN	167 D		_	DEG F		CON
	ILIVII LIXATOILE IIV	' ' ' '	/LG	1130	ו טבט		Luni

161 DEG F

2.81 PSI

2" NPT

TEMPERATURE OUT 176 DEG F

PRESSURE DROP 4.1 PSI

INLET SIZE

HEAT DISSII	PATION HX-2
DESIGN MANUFACTURER	IEA OR EQUAL
SERVICE	HEAT DISSIPATION
FLOW RATE	35 GPM
GROSS HEAT LOAD	1000 MBH
INLET WATER TEMP	197 DEG F
OUTLET WATER TEMP	158
BLOWER FAN	2 HP
NUMBER OF FANS	2
MODEL	HCR-M14-02-08-S01
FAN SPEED	880 RPM
LIQUID MEDIUM	40% P.G.
DRY WEIGHT	700 LBS

2" NPT

B/ (B 0)	1177
COGENERATI	ON SCHEDULE
DESIGN MANUFACTURER	YANMAR
FUEL	NATURAL GAS
FUEL INPUT	410 CFH
THERMAL OUTPUT	202,000 BTU/HR
ELECTRICAL OUTPUT	35 KW, 208V
GENERATION TYPE	DG GENERATOR - INVERTER
ACOUSTIC LEVEL	64 dB (A)
VIBRATION ISOLATION	YES
CONTROLS	MICROPROCESSOR BASED
UNIT WEIGHT	3,374
MODEL	CP35D1
NOMINAL INLET TEMP	167 DEG F
NOMINAL OUTLET TEMP	176 DEG F

32"W X "79 X 79"H

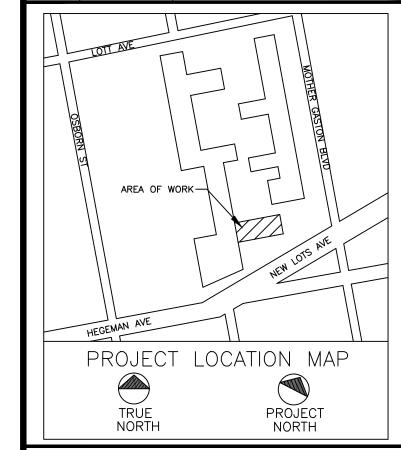
NOMINAL WATER FLOW RATE | 39.6 GPM

DIMENSIONS

	TEMPERATURE SE	NSOR SCHEDULE	
NO.	SERVICE	MODEL	WELL TYPE
-1	CHP-1 SUPPLY	PRTF-11-2-100-1/4-6-E-BX	AT-225
-2	CHP-2 SUPPLY	PRTF-11-2-100-1/4-6-E-BX	AT-225
-3	CHP-3 SUPPLY	PRTF-11-2-100-1/4-6-E-BX	AT-225
-4B	COGEN SUPPLY	BADGER 380	AT-225
-5	COGEN DHW - DUMP	PRTF-11-2-100-1/4-6-E-BX	AT-225
-11	HX-1 RETURN	PRTF-11-2-100-1/4-6-E-BX	AT-225
_12	HY_1 SUPPLY	PRTF-11-2-100-1/4-6-F-BX	ΔT-225

TEMPERATURE SENSOR SCHEDULE						
SERVICE	MODEL	WELL TYPE				
CHP-1 SUPPLY	PRTF-11-2-100-1/4-6-E-BX	AT-225				
CHP-2 SUPPLY	PRTF-11-2-100-1/4-6-E-BX	AT-225				
CHP-3 SUPPLY	PRTF-11-2-100-1/4-6-E-BX	AT-225				
COGEN SUPPLY	BADGER 380	AT-225				
COGEN DHW - DUMP	PRTF-11-2-100-1/4-6-E-BX	AT-225				
HX-1 RETURN	PRTF-11-2-100-1/4-6-E-BX	AT-225				
HX-1 SUPPLY	PRTF-11-2-100-1/4-6-E-BX	AT-225				
HWT-1 TEMPERATURE	PRTF-11-2-100-1/4-6-E-BX	AT-225				
HEAT DISSIPATION	PRTF-11-2-100-1/4-6-E-BX	AT-225				
COGEN RETURN	BADGER 380	N/A				
	SERVICE CHP-1 SUPPLY CHP-2 SUPPLY CHP-3 SUPPLY COGEN SUPPLY COGEN DHW - DUMP HX-1 RETURN HX-1 SUPPLY HWT-1 TEMPERATURE HEAT DISSIPATION	SERVICE MODEL CHP-1 SUPPLY PRTF-11-2-100-1/4-6-E-BX CHP-2 SUPPLY PRTF-11-2-100-1/4-6-E-BX CHP-3 SUPPLY PRTF-11-2-100-1/4-6-E-BX COGEN SUPPLY BADGER 380 COGEN DHW - DUMP PRTF-11-2-100-1/4-6-E-BX HX-1 RETURN PRTF-11-2-100-1/4-6-E-BX HX-1 SUPPLY PRTF-11-2-100-1/4-6-E-BX HWT-1 TEMPERATURE PRTF-11-2-100-1/4-6-E-BX HEAT DISSIPATION PRTF-11-2-100-1/4-6-E-BX				

NO.	DATE	REVISION DESCRIPTION



CLIENT:

AEGIS ENERGY SERVICES, INC 55 JACKSON STREET HOLYOKE, MA 01040 TEL.: 413-536-1156 FAX: 413-536-1104 ATTN: KEVIN MAY

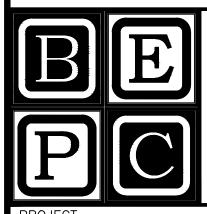
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PLAZA RESIDENCES COGENERATION PROJECT 25 NEW LOTS AVE BROOKLYN, NY 11212

MECHANICAL/HVAC SCHEDULES & FLOW DIAGRAM

	DESIGN	BY:	KM	DATE:	10/20/16
	DRN BY:		KM	DATE:	10/20/16
	CKD BY	':		DATE:	
	FINAL C	KD BY:		DATE:	•
	SCALE:	AS NOT	ΓED	DATE:	
	DWG No.		Р	AGE 3 OF	9

M-101.01

60 - 335

B-SCAN:



CHP-1 (ONBOARD GLYCOL LOOP,

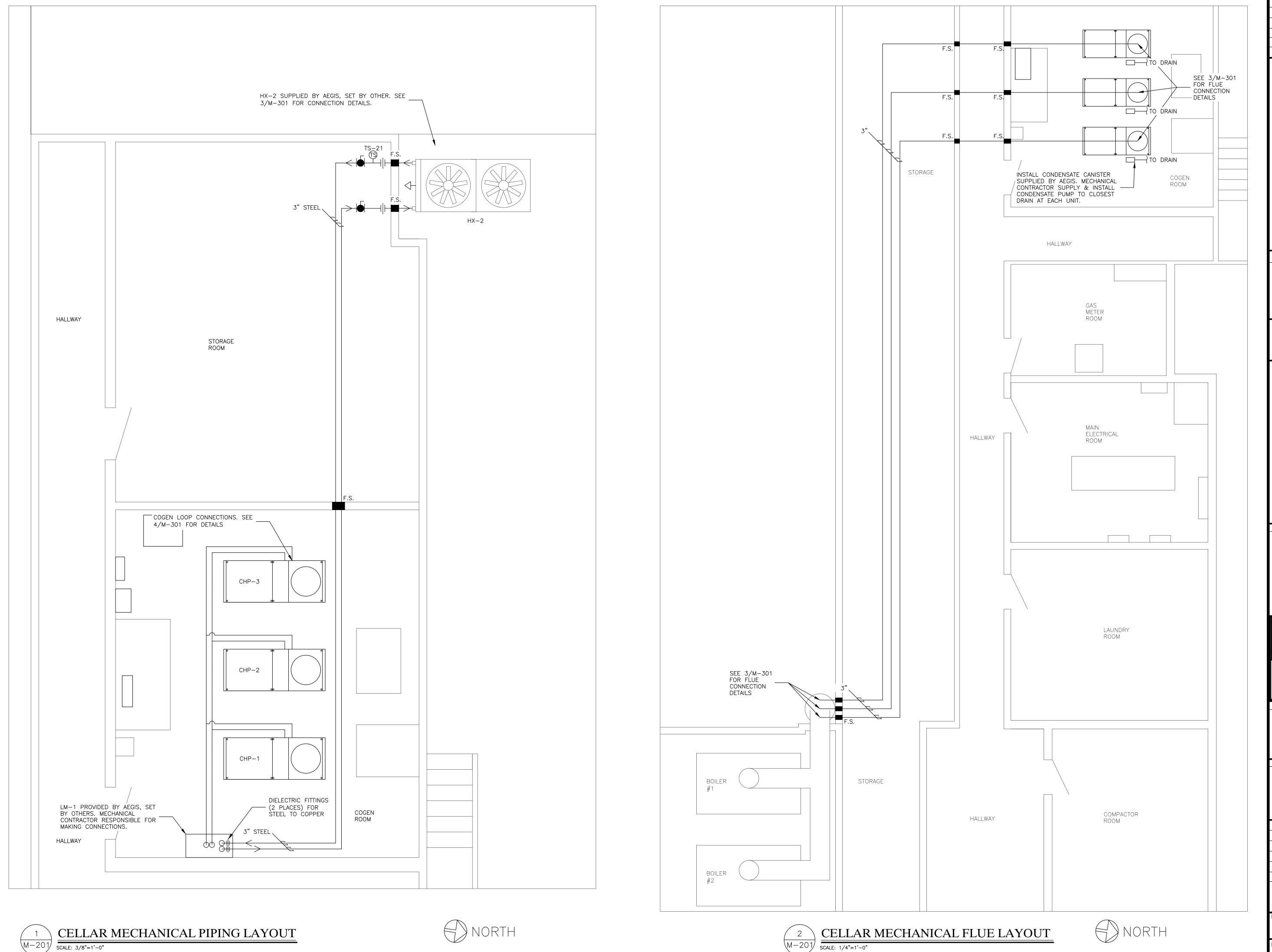
CHP-2 (ONBOARD GLYCOL LOOP, PUMP, AND BRAZED PLATE HX)

CHP-3 (ONBOARD GLYCOL LOOP,
PUMP, AND BRAZED PLATE HX)

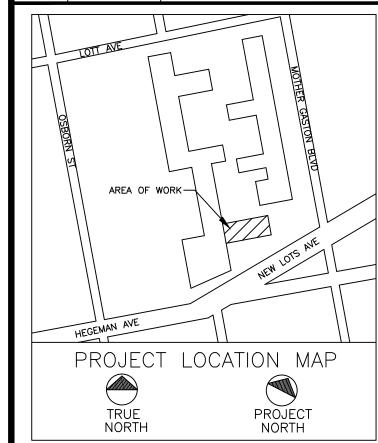
PUMP, AND BRAZED PLATE HX)

ENGINE

ENGINE



NO. DATE REVISION DESCRIPTION



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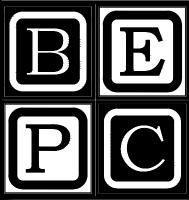
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PREPARED BY:

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PLAZA RESIDENCES COGENERATION PROJECT 25 NEW LOTS AVE BROOKLYN, NY 11212

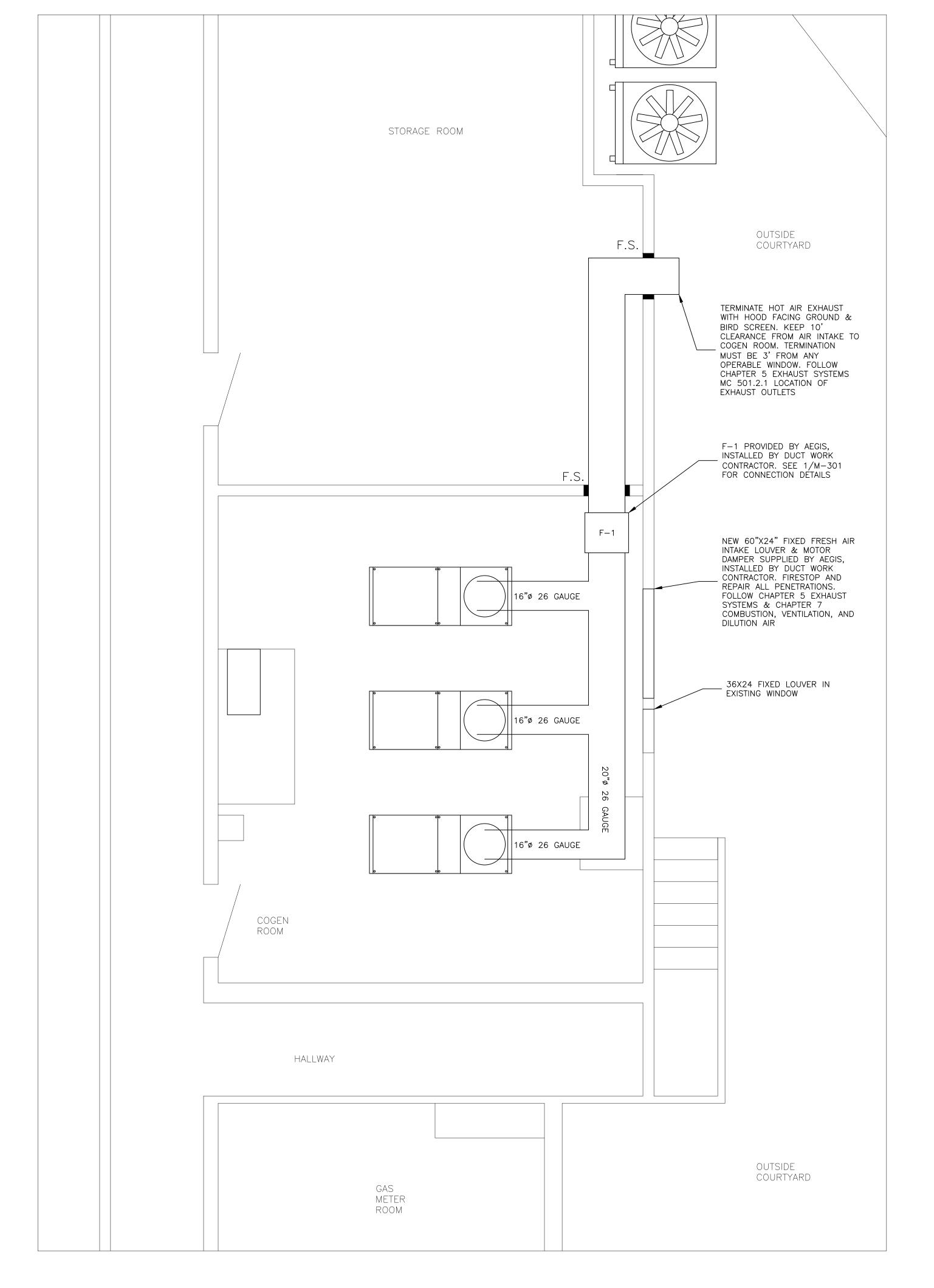
DRAWING TITLE:

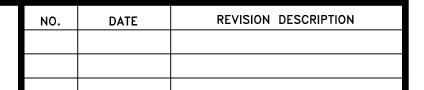
CELLAR MECHANICAL
PIPING AND FLUE
LAYOUT

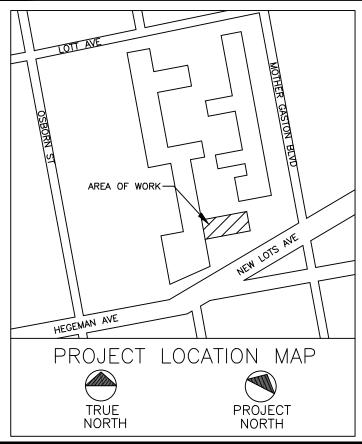
DESIGN BY:		KM	DATE:	10/20/16
DRN BY:		KM	DATE:	10/20/16
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SCALE: AS NO		ΓED	DATE:	
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60 - 335







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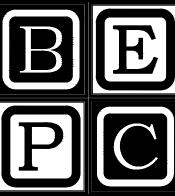
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PREPARED BY:

BECKER ENGINEERING, PC

777 SUNRISE HIGHWAY, SUITE 300 LYNBROOK, NY 11563 PHONE: (516) 561-5922 FAX: (516) 823-0219 EMAIL: SUPPORT@BEPC.US WEB: WWW.BEPC.US



PROJECT

PLAZA RESIDENCES
COGENERATION PROJECT
25 NEW LOTS AVE
BROOKLYN, NY 11212

DRAWING TITLE:

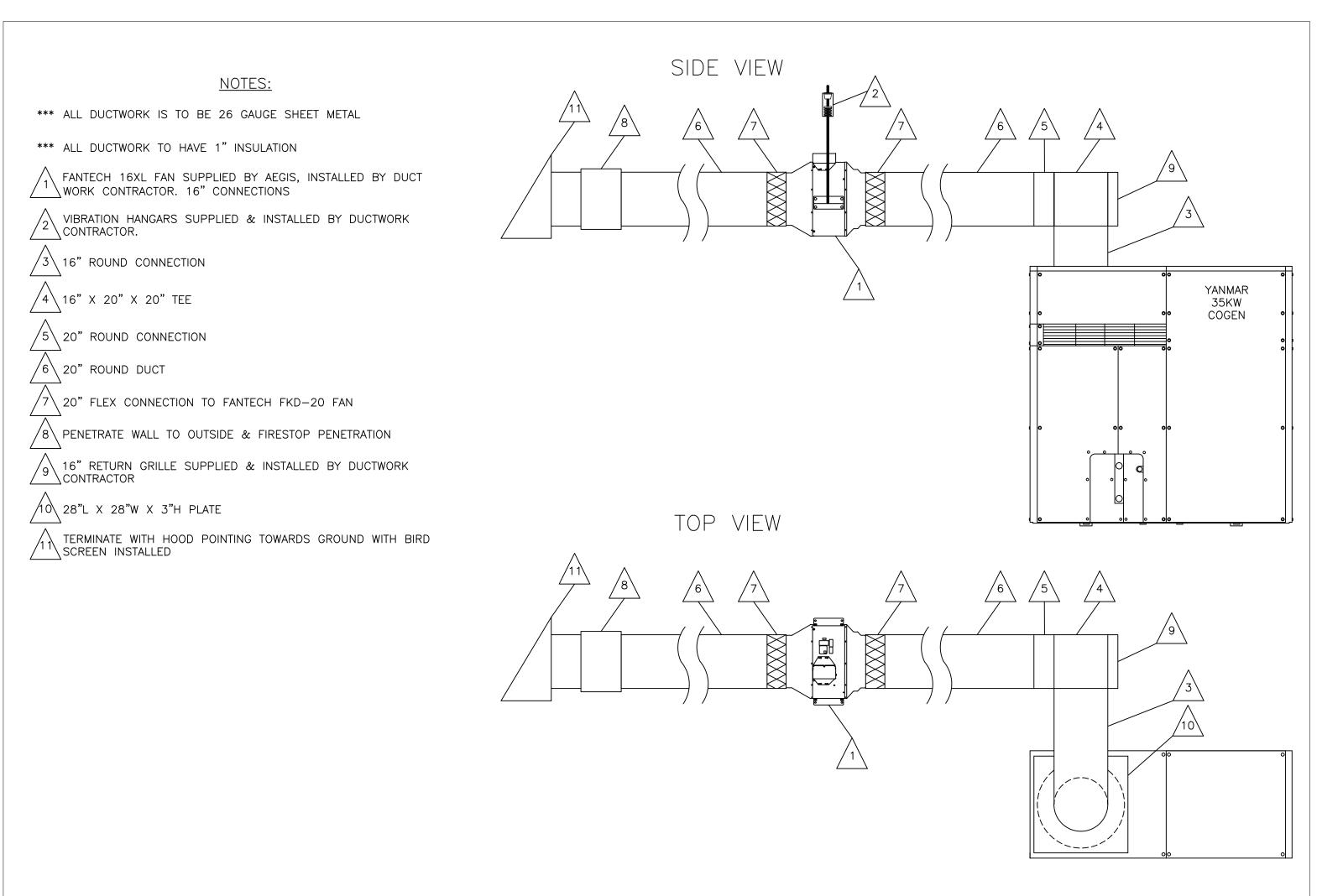
CELLAR HOT AIR EXHAUST LAYOUT

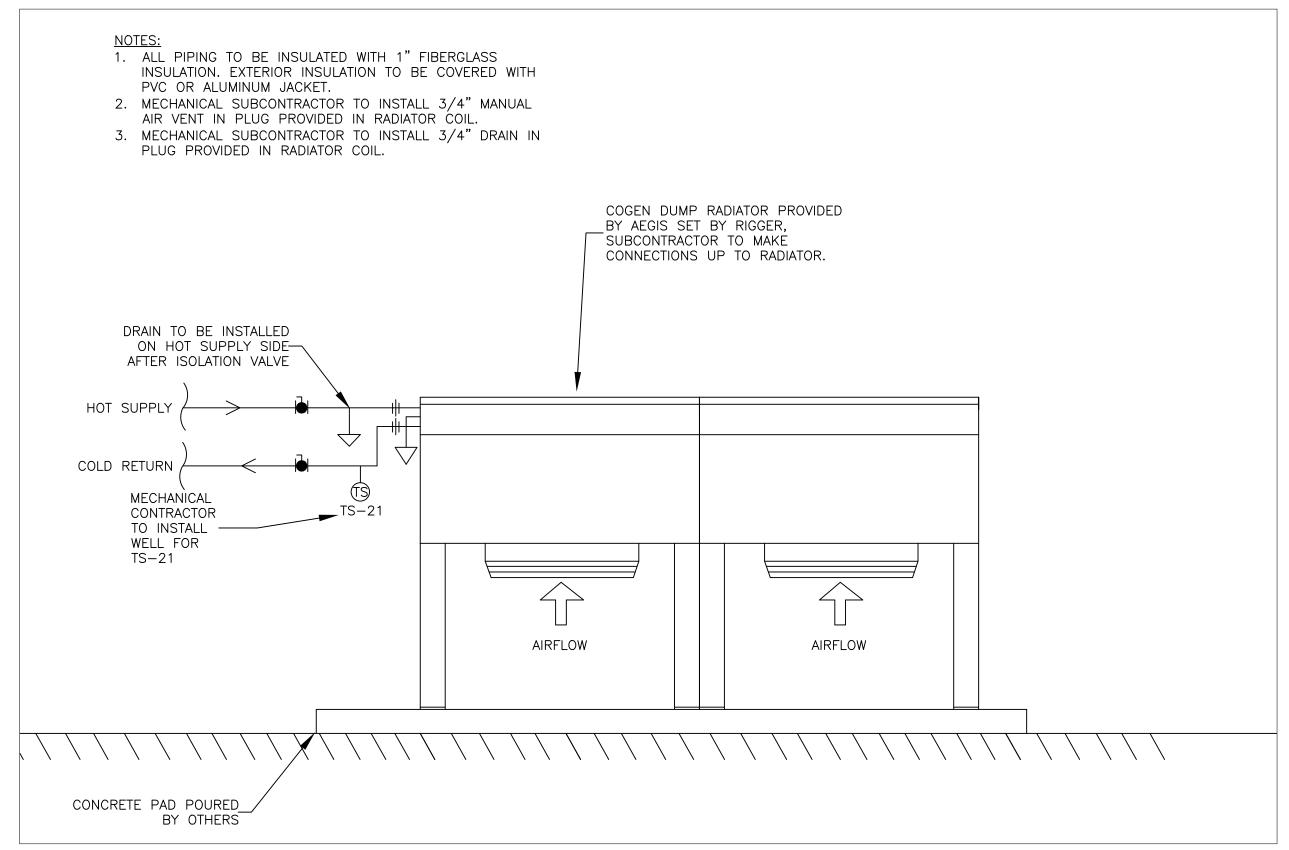
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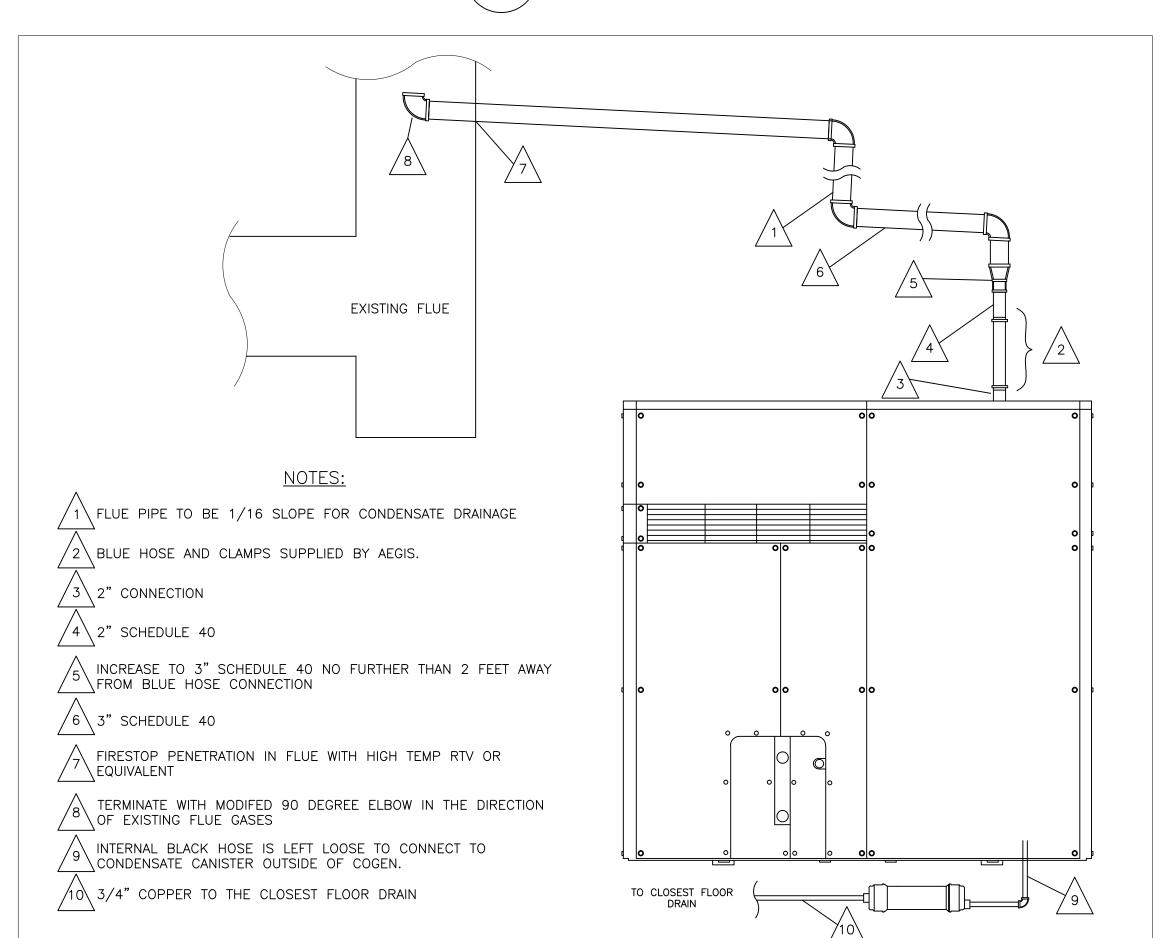


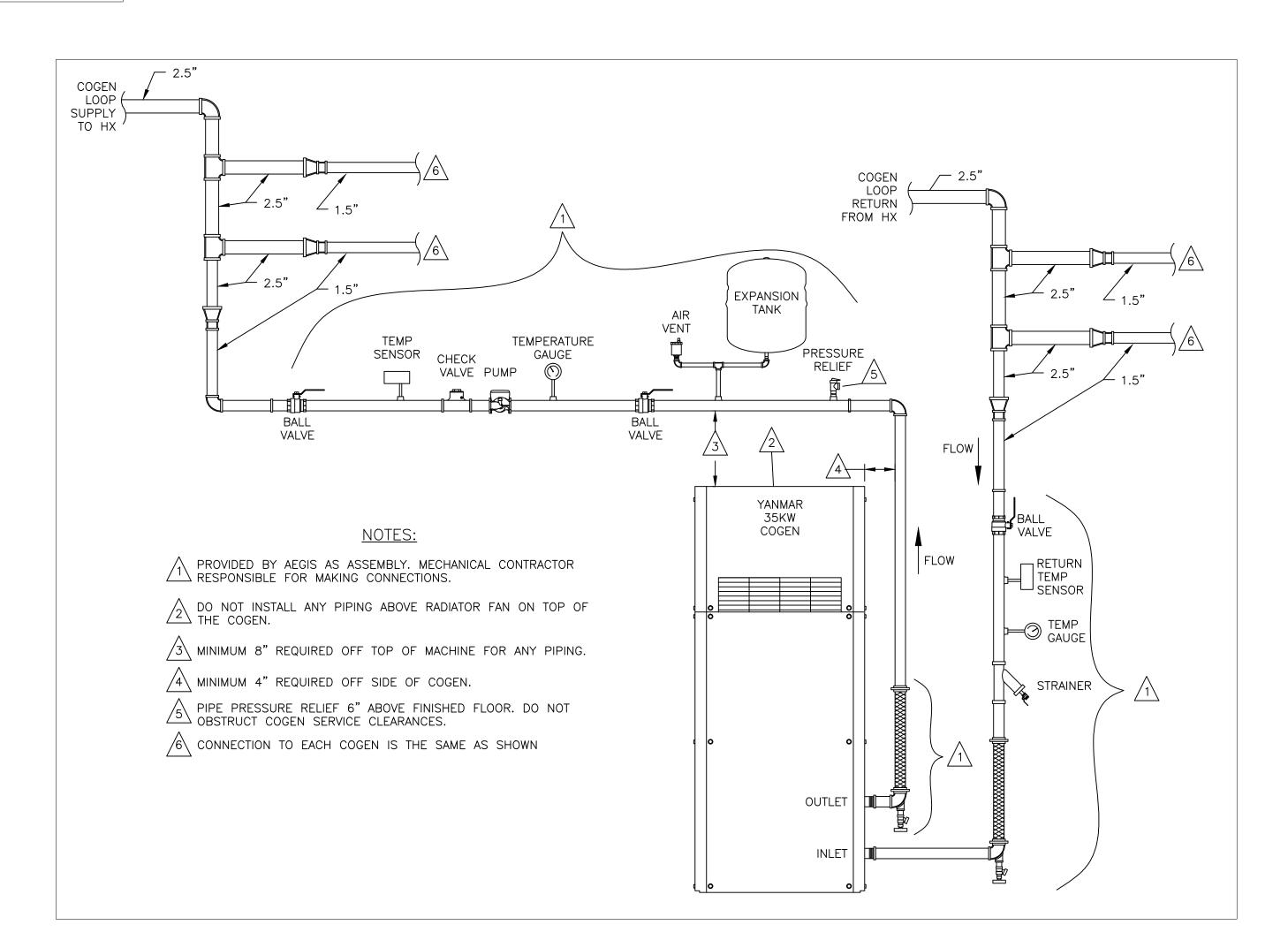




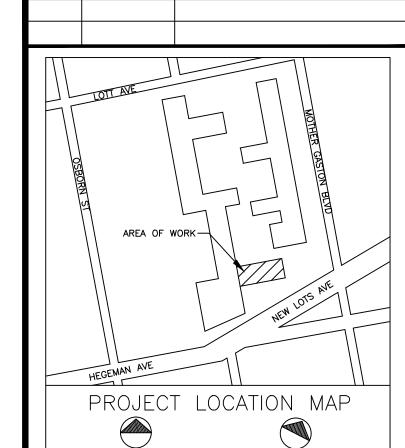


COGENERATION DUCT WORK DETAIL M-301 SCALE: NTS









REVISION DESCRIPTION

PROJECT

CLIENT:

NO.

AEGIS ENERGY SERVICES, INC 55 JACKSON STREET HOLYOKE, MA 01040 TEL.: 413-536-1156 FAX: 413-536-1104 ATTN: KEVIN MAY

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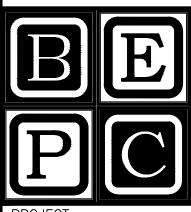
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PLAZA RESIDENCES COGENERATION PROJECT 25 NEW LOTS AVE BROOKLYN, NY 11212

DRAWING TITLE:

MECHANICAL/ HVAC DETAILS

DESIGN BY:		KM	DATE:	10/20/16		
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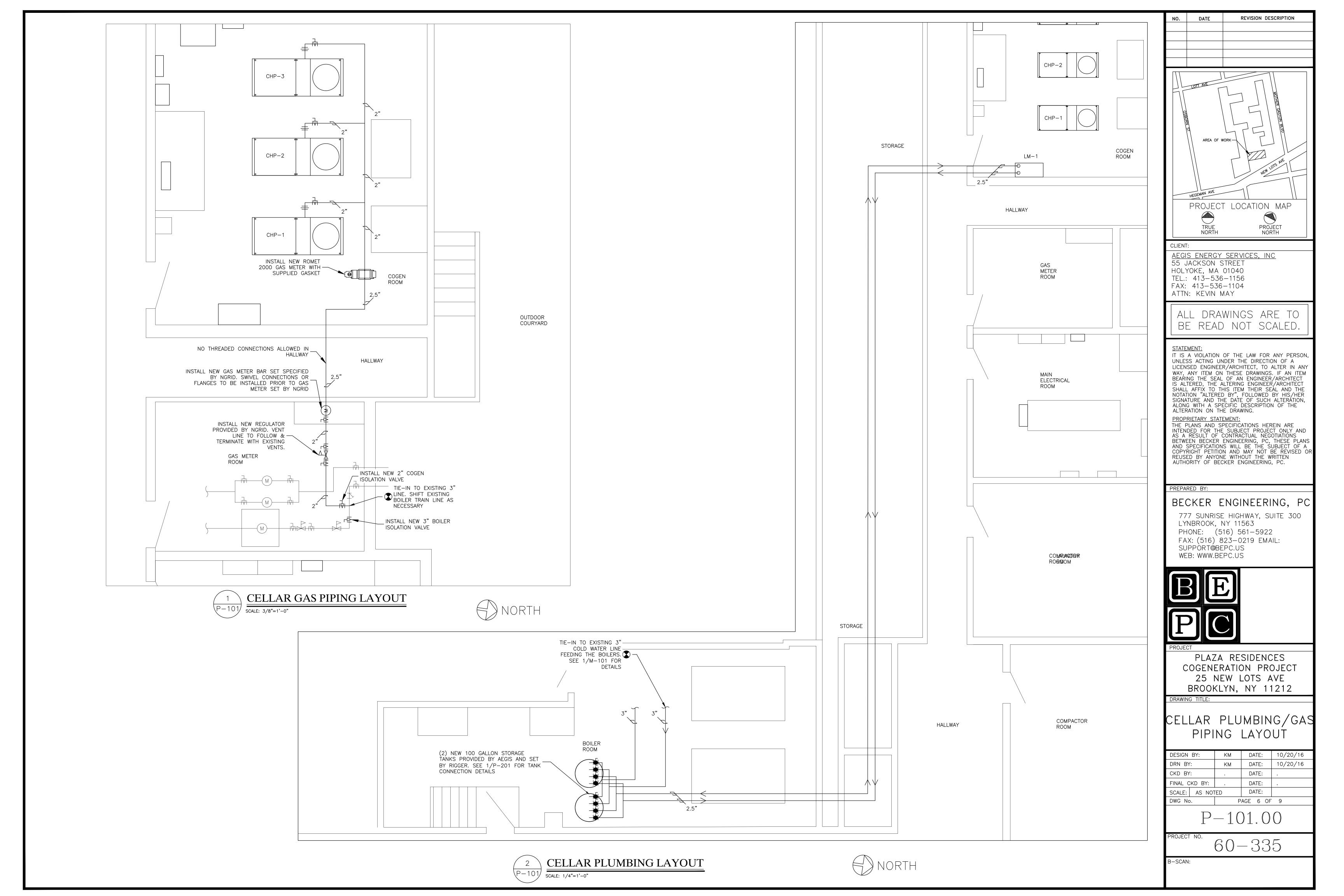
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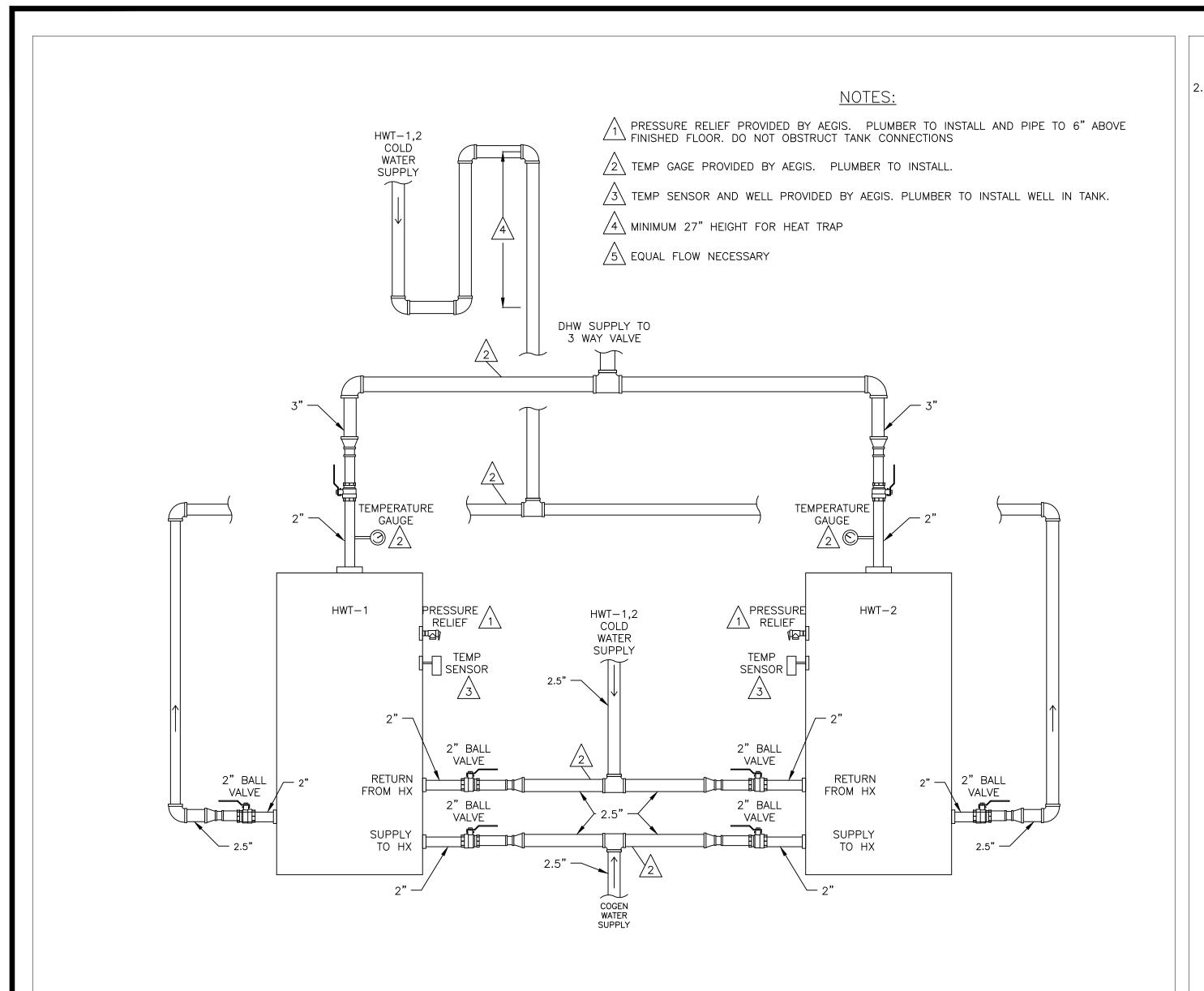
60 - 335

B-SCAN:

COGENERATION FLUE DETAIL

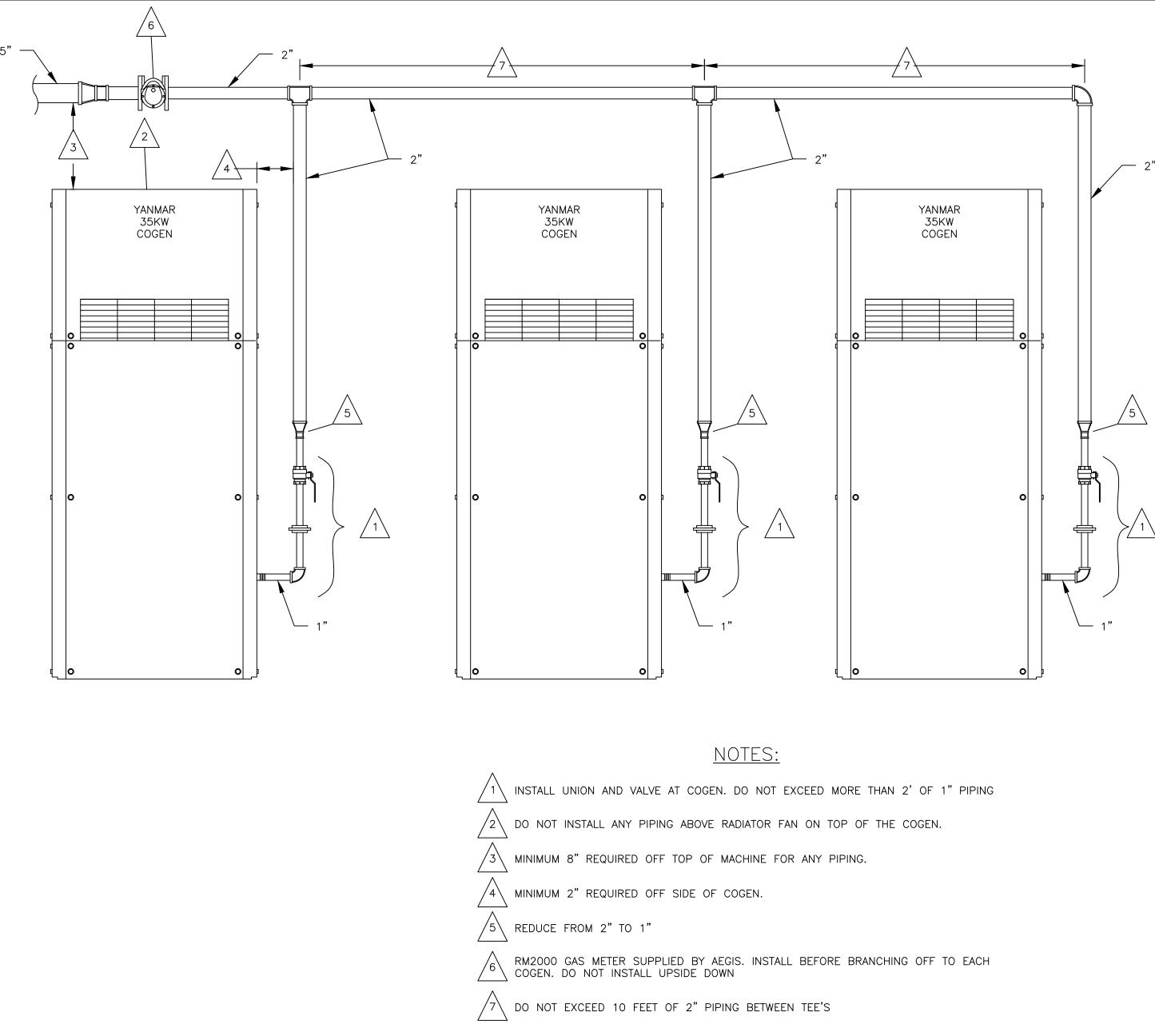
COGENERATION MECHANICAL CONNECTION DETAIL

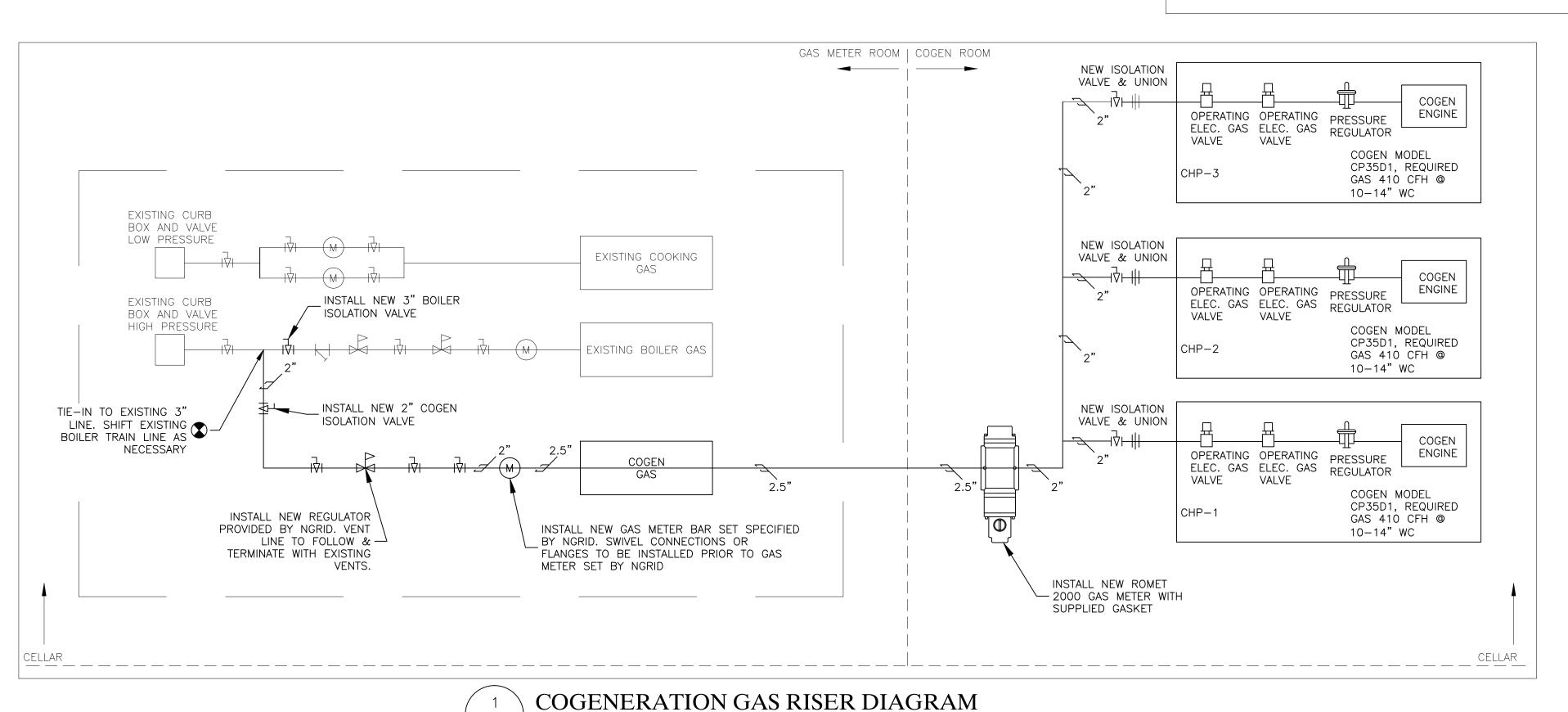




SCALE: NTS

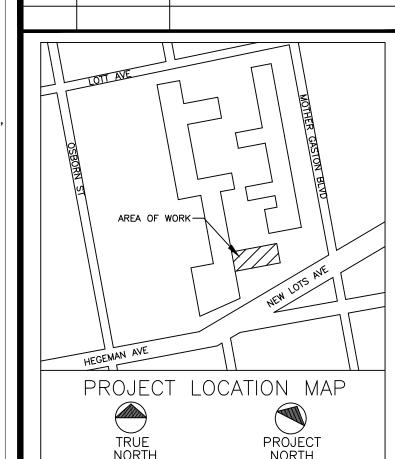
SCALE: NTS





STORAGE TANK CONNECTION DETAIL





REVISION DESCRIPTION

CLIENT:

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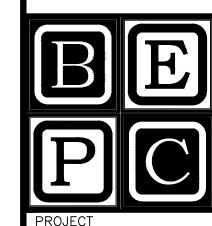
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PLAZA RESIDENCES COGENERATION PROJECT 25 NEW LOTS AVE

BROOKLYN, NY 11212

DRAWING TITLE:

GAS RISER DIAGRAM & PLUMBING DETAILS

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PROVIDED BY AEGIS, ELECTRICAL CONTRACTOR TO MAKE CONNECTIONS: (1-5)

- 1) (CCP) COGEN CONTROL PANEL. MOUNTED BY ELECTRICIAN.
- (1) (HX-2) RADIATOR
- (3) (LM-1) LOAD MODULE 1
- (4) (CHP-1,2,3) COGEN
- (1) (H8043) H8043 METER TO BE INSTALLED IN MAINS CABINET. CT'S INSTALLED ON MAIN BUS LOAD SIDE OF CONED CT'S. VOLTAGE TAPS INSTALLED FOR POWER WHERE CONVENIENT. SEE PERFORMANCE MONITORING NOTE FOR CONNECTIONS
- (6) (H8035-1,2) INSTALL H8035-1 METER IN SBDP, H8035-2 IN DC-1

SUPPLIED, INSTALLED & TERMINATED BY ELECTRICIAN: (10-17)

- (10) (DC-1) NEW 208V 400A FUSED DISCONNECT WITH 400A FUSES,
- MANUAL, GANG OPERATED, LOAD BREAK, LOCKABLE.

 (11) (DC-2) NEW 208V 200A FUSED DISCONNECT WITH 200A FUSES,
- MANUAL, GANG OPERATED, LOAD BREAK, LOCKABLE.
- (12) (DC-3) NEW 208V 200A FUSED DISCONNECT WITH 200A FUSES, MANUAL, GANG OPERATED, LOAD BREAK, LOCKABLE.
- (13) (XFER) NEW 112 KVA 208Δ/208Y DELTAE WYE TRANSFORMER.
- (GFCI-1) 120V OUTDOOR RATED OUTLET FOR CONVENIENCE POWER AT EQUIPMENT.
- (15) (JB) JUNCTION BOX USED FOR TAPS TO EACH COGEN
- (SBDP) STANDBY DISTRIBUTION PANEL COGEN NEW 200A, 120/208V, 3 POLE DISTRIBUTION BOARD WITH 200A MAINS BREAKER. SEE SCHEDULE ON THIS SHEET.
- (17) (DC-VT'S) NEW 3P, 208V RATED, 30 AMP RATED, FUSED DISCONNECT WITH 15 AMP FUSES. VISIBLE BREAK, GANG OPERATED. TAP FROM ANY PANEL IN MAIN ELECTRIC ROOM

POWER: (25-29)

- 25) TO CCP FROM HX-2 (HV) 208V F-2, F-3 (6) #12 W/ GND & (2) 3P NEMA3R SS (15A)
- 26 TO CCP FROM F-1 F-1 (3) #12 W/ GND & SERVICE SW (15A)
- (3 PLACES) FROM CCP TO PUMP P-1,2,3 (2) #12 W/GND & SS (15A)
- (28) FROM HX-2 TO SBDP GFCI (2) #12 W/ GND. (20A)
- FROM LM-1 TO SBDP GFCI GLYMATIC (2) #12 W/ GND (20A)
- 30 FROM CCP TO LM-1 P-4,5 (3) #12 W/GND & SS (15A)
- (31) FROM SBDP TO CCP 3 PHASE (4) #10 W/GND (30A) 1 PHASE (2) #12 W/GND (20A)

<u>CONTROLS:</u> (35-39)

- (35) (3 PLACES) FROM CCP TO CHP-1/2/3
 (10) #18/2 SHIELDED, SEE WIRING NOTES BELOW
 (1) CATSE SHIELDED
- (36) (3 PLACES) FROM CCP TO CHP-1/2/3 TS-1,2,3 (1) 18/3 SHIELDED
- 37) FROM LM-1 TO CCP TS-11,12 (2) 18/3 SHIELDED
 - (2) #18 THHN W/ SERVICE SW
 (1) #18 SHIELDED
 BTU METER
 - (1) #18/2 SHLD (24V POWER) (1) #18/3 TWISTED SHIELDED (MODBUS)
- (38) FROM RADIATOR TO CCP TS-21 (1) 18/3 SHIELDED
- (39) FROM ESTOP TO CCP (2) #18/2 SHLD
- (40) FROM MD-1 TO CCP (1) 18/2 SHIELDED (POWER) (1) 18/2 SHIELDED (STATUS)

PERFORMANCE MONITORING: (45-47)

- FROM MAINS TO CCP TO COGEN (DAISY CHAIN)
 H8043 LOCATED IN MAIN SWITCHGEAR
 (1) 18/2 TWISTED SHIELDED
- (46) FROM MAINS TO H8043
 CT'S
 (3) H8043 CT'S DOWNSTREAM OF CONED CT'S

(3)H8043 VOLTAGE TAPS FOR 208V

- 47) FROM GAS METER TO CCP PULSE OUT (1) 18/2 SHIELDED
- 48) FROM H8035-1 TO CCP
 PARASITIC POWER
 (1) 18/2 TWISTED SHIELDED
- (49) FROM H8035-2 TO CCP COGEN POWER (1) 18/2 TWISTED SHIELDED

COGEN INTERLOCK: (55-56)

- (55) FROM CHP-1 TO CHP-2 (2) 18/2 SHIELDED (4) 18/3 SHIELDED
- (56) FROM CHP-2 TO CHP-3 (2) 18/2 SHIELDED (4) 18/3 SHIELDED

NOTES:

- USE 3/4" EMT MINIMUM FOR ALL RUNS, SEPARATE CONTROL AND LINE VOLTAGE WIRE.
- PROVIDED BY OWNER, 1) CATS COMMUNICATIONS LINE FOR CCP PANEL, WITH (1) DEDICATED STATIC IP.
- ELECTRICAL SUBCONTRACTOR IS RESPONSIBLE FOR FIRESTOPPING ALL PENETRATIONS. ALL FIRE STOPPING SHALL USE APPROVED SYSTEMS AND METHODS AND SHALL MEET OR EXCEED 2 HR RATING.

	TRANSFORMER SCHEDULE										
KEY	CIZE	DLIACE		PRIMARY							
KEY SIZE PHASE		PHASE	VOLTS	SETS	CONDUCTOR	NEUTRAL	GROUND	CONDUIT			
			208	1	3/0	3/0	#6	2"			
XFMER 112kVA		3		SECONDARY							
			208	1	3/0	3/0	#6	2"			

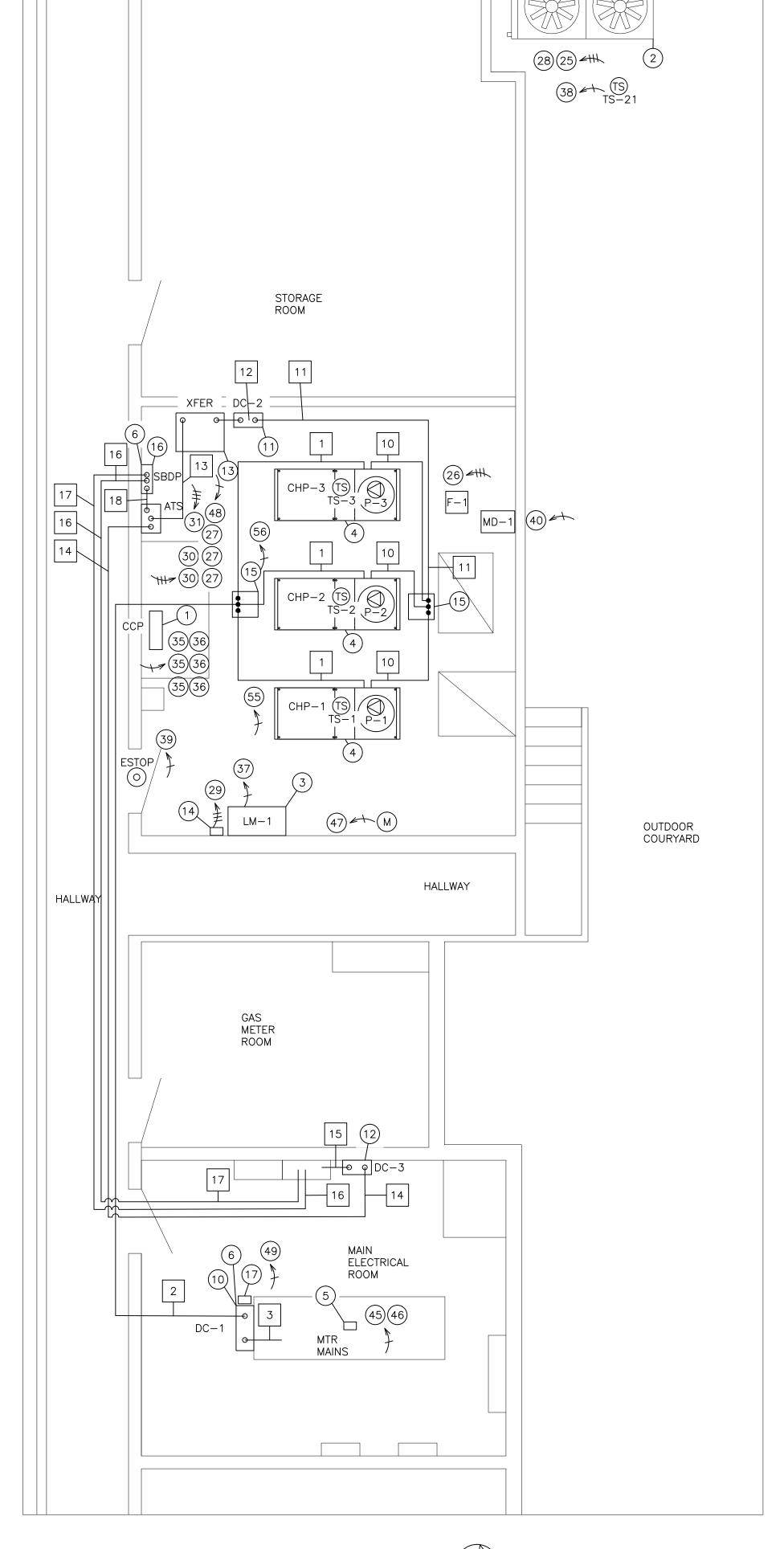
	AUTOMAT	IC TRAN	ISFER	SWITCH SCH	HEDULE
KEY	MODEL	VOLTAGE	AMPS	NORMAL	STANDBY
ATS	ASCO 300	208	200	IN	CPNI

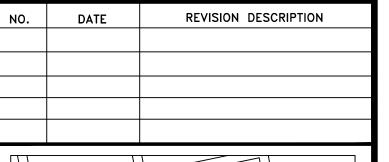
	FEEDER SCHEDULE 1-3										
KE,	Y DESCRIPTION	VOLTAGE	AMPS	# SETS	CONDUCTOR SIZE	NEUTRAL SIZE	GROUND SIZE	EMT SIZE			
1	COGEN TO JUNCTION BOX	208	150	1	1/0	N/A	#6	2"			
2	JUNCTION BOX TO DC-1	208	375	1	500 MCM	N/A	#3	3"			
3	DC-1 TO 1600A SWITCH	208	375	1	500 MCM	N/A	#3	3"			

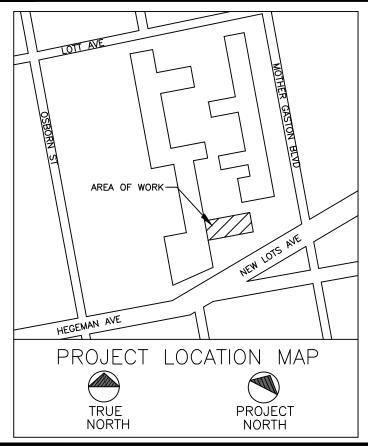
	STANDBY FEEDER SCHEDULE 10-18											
		2 I AIND	BI FEE	- DEK 2	CHEDULE 10-	. 10	1					
KEY	DESCRIPTION	VOLTAGE	AMPS	# SETS	CONDUCTOR SIZE	NEUTRAL SIZE	GROUND SIZE	EMT SIZE				
10	COGEN TO JUNCTION BOX	208	150	1	1/0	N/A	#6	2"				
11	JUNCTION BOX TO DC-2	208	200	1	3/0	N/A	#6	2"				
12	DC-2 TO XFER	208	200	1	3/0	N/A	#6	2"				
13	XFER TO ATS	208	200	1	3/0	3/0	#6	2"				
14	ATS TO DC-3	208	200	1	3/0	3/0	#6	2"				
15	DC-3 TO 800A PANEL	208	200	1	3/0	3/0	#6	2"				
16	SBDP TO 800A PANEL	208	200	1	3/0	3/0	#6	2"				
17	800A PANEL TO SBDP	208	200	1	3/0	3/0	#6	2"				
18	SBDP TO ATS	208	200	1	3/0	3/0	#6	2"				

NEW SBDP 200A MAIN CIRCUIT BREAKER PANEL SCHEDULE									
/OLTAGE: 120/208V, 3φ, 4W MAIN FEEDER: 1 SET OF (4) #3/0 CU, #6 CU G IN 2.5"C MOUNTING: SURFACE NIC: 65 KA									
CIRCUIT DESC.	TRIP AMPS		Α	В	С		TRIP AMPS	CIRCUIT DESC.	
	200A	1	•			2	30A	CCP	
MAIN DISCONNECT		3		•		4			
DIGGGTTTLGT		5			•	6			
		7	•			8			
BOILER	100A	9		•		10	×	SPARE	
		11			•	12			
GFCI	20A	13	•			14	X	SPARE	
SPARE	X	15		•		16	×	SPARE	
SPARE	X	17			•	18	X	SPARE	

WDE 7.22	DECODIDE		NTROL WIRING		AILS	T-0	14055	
WIRE TYPE	DESCRIPTION	TYPE	FROM		###'S	ТО		###'S
18/2 SHIELDED	RUN COMMAND	OUTPUT	CCP		882-1	CHP-1	881	882
18/2 SHIELDED	ALARM	INPUT	CCP	+	862-1	CHP-1	861	862
18/2 SHIELDED	STATUS	INPUT	CCP	_	842-1	CHP-1	841	842
18/2 SHIELDED	HEAT MAIN	OUTPUT	CCP		H2-1	CHP-1	H1	H2
18/2 SHIELDED	E-STOP	OUTPUT	CCP	GS1-1	GS2-1	CHP-1	GS1	GS1
18/2 SHIELDED	BAT PWR	POWER	CCP	24+1	24-1	CHP-1	24+	24-
18/2 SHIELDED	REMOTE MONITOR	СОМ	CCP	LC1+1	LC1-1	CHP-1	LC1+	LC1-
18/2 SHIELDED	SYS CONTROLLER	СОМ	CCP	RDA-1	RDB-1	CHP-1	RDA	RDB
CAT5	CP CHECK	СОМ	CCP	CAT	Γ5 – 1	CHP-1	CAT	5 **
18/2 SHIELDED	8035 POWER	СОМ	CCP			CHP-1		
18/2 SHIELDED	SPARE		CCP			CHP-1		
18/2 SHIELDED	RUN COMMAND	OUTPUT	CCP	881-2	882-2	CHP-2	881	882
18/2 SHIELDED	ALARM	INPUT	CCP		862-2	CHP-2	861	862
18/2 SHIELDED	STATUS	INPUT	CCP		842-2	CHP-2	841	842
18/2 SHIELDED	HEAT MAIN	OUTPUT	CCP		H2-2	CHP-2	H1	H2
18/2 SHIELDED	E-STOP	OUTPUT	CCP		GS2-2	CHP-2	GS1	GS1
18/2 SHIELDED	BAT PWR	POWER	CCP		24-2	CHP-2	24+	24-
, , , , , , , , , , , , , , , , , , ,	REMOTE MONITOR	COM	CCP		LC1-2	CHP-2	LC1+	LC1-
	SYS CONTROLLER	COM	CCP		RDB-2		RDA	RDB
CAT5	CP CHECK	COM	CCP		5-2	CHP-2		5 **
18/2 SHIELDED	8035 POWER	COM	CCP	CAI	J-2	CHP-2	CAI	J
18/2 SHIELDED	SPARE	COM	CCP			CHP-2		
10/2 SHILLDED	SPARE		CCF			CHP-Z		
18/2 SHIELDED	RUN COMMAND	OUTPUT	CCP	881-3	882-3	CHP-3	881	882
18/2 SHIELDED	ALARM	INPUT	CCP	861-3	862-3	CHP-3	861	862
18/2 SHIELDED	STATUS	INPUT	CCP	841-3	842-3	CHP-3	841	842
18/2 SHIELDED	HEAT MAIN	OUTPUT	CCP	H1-3	H2-3	CHP-3	H1	H2
18/2 SHIELDED	E-STOP	OUTPUT	CCP	GS1-3	GS2-3	CHP-3	GS1	GS1
18/2 SHIELDED	BAT PWR	POWER	CCP	24+3	24-3	CHP-3	24+	24-
18/2 SHIELDED	REMOTE MONITOR	COM	CCP	LC1+3	LC1-3	CHP-3	LC1+	LC1-
18/2 SHIELDED	SYS CONTROLLER	COM	CCP	RDA-3	RDB-3	CHP-3	RDA	RDB
CAT5	CP CHECK	COM	CCP	CAT	5-3	CHP-3	CAT	5 **
18/2 SHIELDED	8035 POWER	СОМ	CCP			CHP-3		
18/2 SHIELDED	SPARE		CCP			CHP-3		







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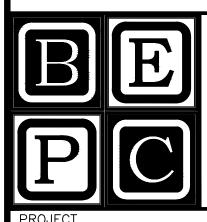
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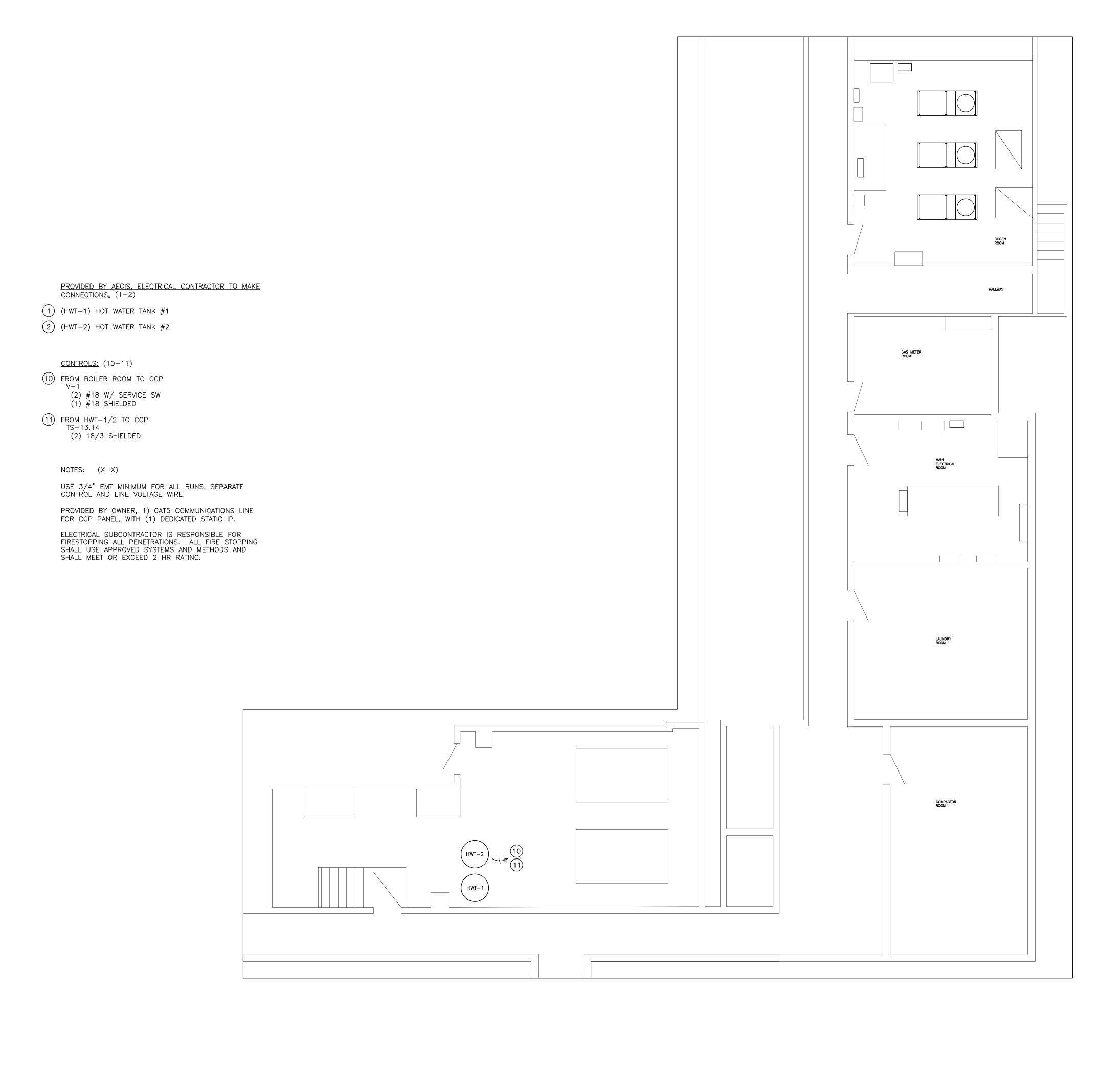
COGENERATION CELLAR ELECTRICAL PARTIAL PLAN-1

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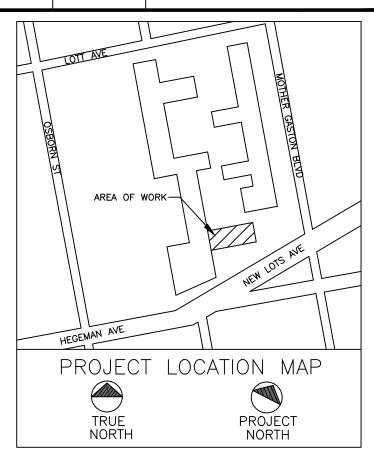








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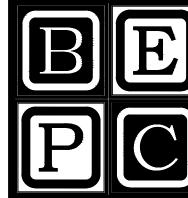
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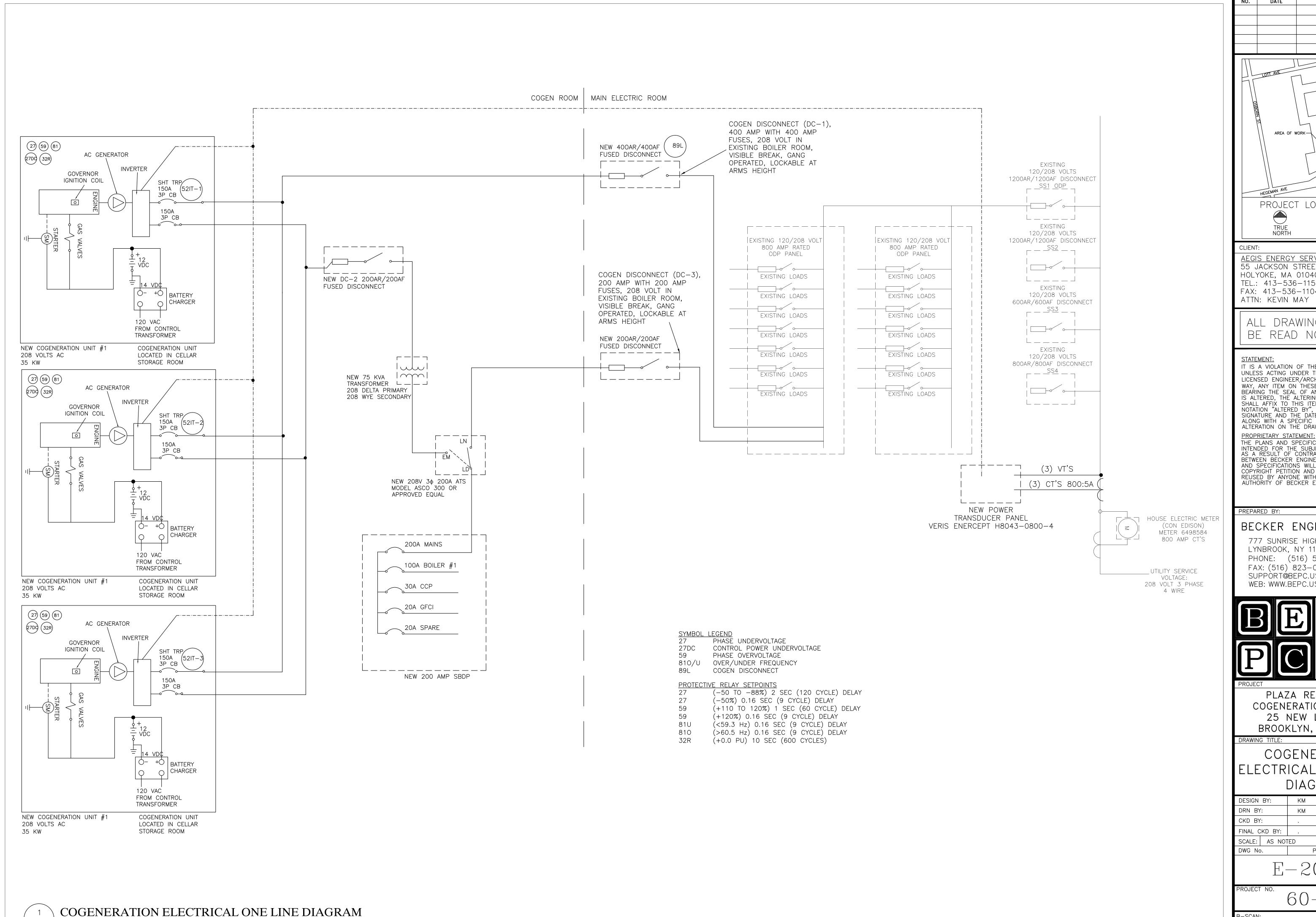
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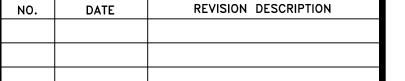
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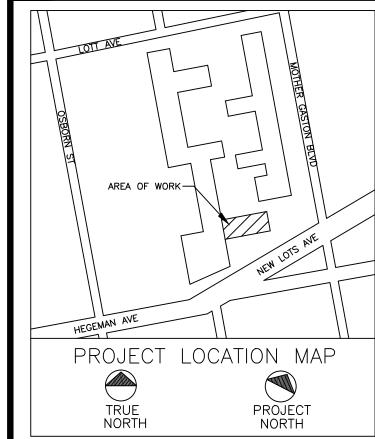
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SCALE: NTS





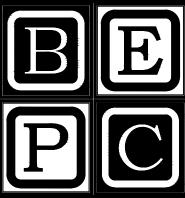
AEGIS ENERGY SERVICES, INC 55 JACKSON STREET HOLYOKE, MA 01040 TEL.: 413-536-1156 FAX: 413-536-1104 ATTN: KEVIN MAY

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COGENERATION ELECTRICAL ONE LINE DIAGRAM

DESIGN	BY:	KM	DATE:	10/20/16
DRN BY	' :	KM	DATE:	10/20/16
CKD BY	':	•	DATE:	•
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