

PLAZA RESIDENCES

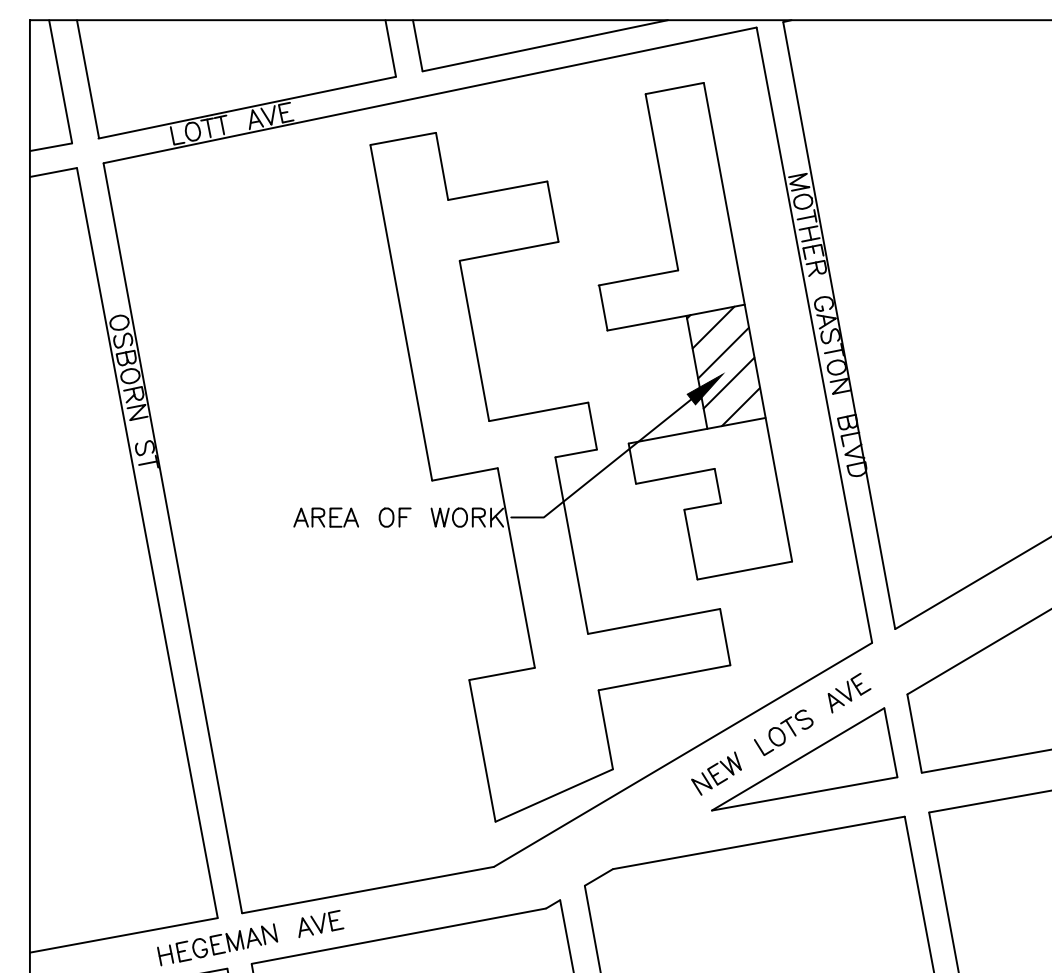
37 NEW LOTS AVE

COGENERATION SYSTEM

(BLOCK 3628, LOT 1)

DRAWING INDEX:

SHEET NO.	TITLE OF DRAWING
T-101.00	TITLE SHEET, GENERAL NOTES & MECHANICAL SYMBOL LIST
G-101.00	ENERGY ANALYSIS
M-101.00	MECHANICAL SCHEDULES & FLOW DIAGRAM
M-201.00	CELLAR MECHANICAL HVAC/PIPING LAYOUT
M-301.00	MECHANICAL/HVAC DETAILS
P-101.00	CELLAR PLUMBING/GAS LAYOUT
P-201.00	GAS RISER DIAGRAM & PLUMBING DETAILS
E-101.00	CELLAR ELECTRICAL LAYOUT
E-201.00	COGENERATION ELECTRICAL ONE LINE DIAGRAM



REVIEWER NOTE:

THE SCOPE OF WORK FOR THIS PROJECT INCLUDES THE INSTALLATION OF TWO (2) 35KW MODULAR COGENERATION MODULES TO GENERATE HEAT AND ELECTRICITY FOR PLAZA RESIDENCES, 37 NEW LOTS AVE, NEW YORK, NEW YORK, 11212

ADDRESS: 37 NEW LOTS AVE
 BIN: 3326601
 BLOCK: 3628
 LOT: 1
 # BUILDINGS: 1
 # FLOORS: 6 & 1 BELOW GRADE
 GROSS AREA: 245,538
 # DWELLING UNITS: 385
 YEAR OF CONSTRUCTION: 1969

NOTE:

- DRAWINGS ARE TO BE READ, NOT SCALED.
- ALL WORK SHALL CONFORM TO THE 2016 NEW YORK CITY BUILDING CODE.
- TO THE BEST OF OUR KNOWLEDGE, BELIEF, AND PROFESSIONAL JUDGMENT, SUCH PLANS AND SPECIFICATIONS ARE IN CONFORMANCE WITH THE 2016 NYC ENERGY CONSERVATION CONSTRUCTION CODE. PIPING HAVE BEEN SPECIFIED TO BE INSULATED WITH R-3 INSULATION, DOMESTIC HOT WATER STORAGE TANKS HAVE R-13 INSULATION AND COGENERATION MODULE MEETS EFFICIENCY REQUIREMENTS. SEE ENERGY ANALYSIS ON SHEET G-1.
- ALL CONDITIONS ARE EXISTING EXCEPT AS NOTED.
- THESE PLANS ARE APPROVED ONLY FOR THE WORK INDICATED ON THE APPLICATION 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, EGRESS OR OCCUPANCY.

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.

- | | | |
|------------------------------------|---|------------|
| 1. MECHANICAL SYSTEMS | - | BC 1704.15 |
| 2. HEATING SYSTEMS | - | BC 1704.23 |
| 3. FIRESTOP, DRAFTSTOP & FIREBLOCK | - | BC 1704.25 |

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.
- 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.
- CONTRACTOR TO SECURE ALL NECESSARY PERMITS REQUIRED FOR THE STIPULATED WORK PRIOR TO COMMENCING WITH CONSTRUCTION OR DEMOLITION.
- ALL ASBESTOS REMOVAL, PLUMBING, ELECTRICAL, WELDING WORK, ETC. TO BE PERFORMED BY LICENSED CONTRACTORS SUBCONTRACTED BY AEGIS ENERGY SERVICES.
- 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.
- ALL WORK SHALL BE PERFORMED IN A NEAT, CLEAN, ORDERLY MANNER AND THE SITE KEPT CLEAN FROM DUST AND DEBRIS AT ALL TIMES.
- CONTRACTORS TO PROVIDE ALL NECESSARY TEMPORARY LIGHTING, POWER, WATER, WATERPROOFING, ETC. NEEDED TO ENSURE PROJECT SAFETY AT ALL TIMES.
- CONTRACTORS TO PROVIDE ALL NECESSARY SHORING, BRIDGING, BARRICADES, SIGNS, ETC. NEEDED TO ENSURE PROJECT SAFETY AT ALL TIMES.
- ALL WORK, INCLUDING TESTING AND TEMPORARY SHUT DOWN OF SERVICES IS TO BE COORDINATED WITH OWNER'S SCHEDULE FOR DELIVERIES, WORKDAYS, TIMES, ETC.
- ALL NEW WORK TO BE THOROUGHLY TIED AND BONDED TO EXISTING WORK
- ALL PATCHING AND JOINING SHALL BE NEAT, CLEAN, AND SQUARE, MATCHING ADJACENT SURFACES IN FINISH AND TEXTURE.
- ALL FIRE RETARDANT MATERIALS SHALL BEAR STAMPS, SEALS, AND/OR PERMANENT LABELS AS REQUIRED. AFFIDAVITS SHALL BE PROVIDED WHEN REQUESTED.
- ALL WORK TO BE PLUMB, LEVEL, AND TO THE BEST OF WORKMANSHIP
- 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.
- THE JOB SHALL BE ADEQUATELY STAFFED AT ALL TIMES TO ENSURE CONTINUITY AND PROGRESS, WITH ALL PHASES/SEGMENTS OF WORK PROPERLY COORDINATED.
- ALL DEFECTIVE OR UNACCEPTABLE WORK SHALL BE REMOVED AND REPLACED, INCLUDING ANY SURROUNDING AFFECTED AREAS, AT NO ADDITIONAL COST TO THE OWNER.
- CONTRACTOR TO SUBMIT SHOP DRAWINGS AND SAMPLES FOR ENGINEER'S APPROVAL WHERE REQUIRED BY DOCUMENTS PRIOR TO PROCEEDING WITH WORK
- ALL WORK, UNLESS OTHERWISE SPECIFIED, TO BE GUARANTEED FOR A MINIMUM OF ONE YEAR FROM FINAL ACCEPTANCE.
- 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.
- ANY CONFLICT BETWEEN THE SPECIFICATIONS AND DRAWINGS IS TO BE BROUGHT TO THE ATTENTION OF THE ENGINEER PRIOR TO WORK.
- ALL PIPES TO BE INSULATED WITH 1" HEAVY DENSITY FIBERGLASS INSULATION WITH ALL SURFACE JACKET.
- ALL PIPING TO BE HARD COPPER "L" GRADE UNLESS OTHERWISE SPECIFIED.

TENANT PROTECTION PLAN:

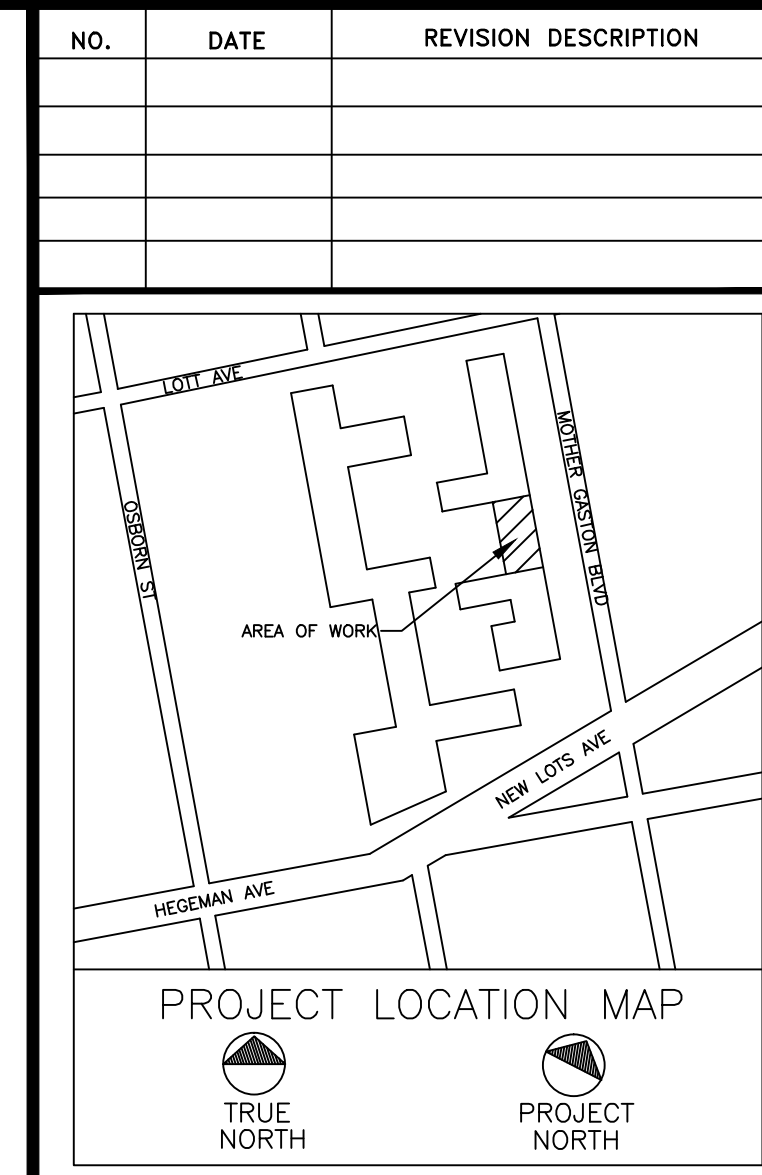
- THE BUILDING CONTAINS SPACES WHICH WILL BE OCCUPIED DURING CONSTRUCTION.
- EGRESS: DURING THE COURSE OF CONSTRUCTION EGRESS FROM ALL FLOORS SHALL BE MAINTAINED AT ALL TIMES.
- FIRE SAFETY: ALL REQUIRED PRECAUTIONS WILL BE TAKEN TO PROVIDE FIRE SAFETY DURING CONSTRUCTION.
- HEALTH REQUIREMENTS: DUST 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.
- 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 INSPECTIONS/PROGRESS (TR-1)		ENERGY CODE COMPLIANCE INSPECTIONS (TR-8)	
<input checked="" type="checkbox"/>	MECHANICAL SYSTEMS	BC 1704.16	<input checked="" type="checkbox"/> HVAC & SERVICE WATER HEATING EQUIPMENT IIB3
<input checked="" type="checkbox"/>	HEATING SYSTEMS	BC 1704.25	<input checked="" type="checkbox"/> HVAC & SERVICE WATER HEATING CONTROLS IIB4
<input checked="" type="checkbox"/>	FIRE-RESISTANT PENETRATIONS AND JOINTS	BC 1704.27	<input checked="" type="checkbox"/> DUCT PLENUM AND PIPING INSULATION & SEALING IIB5
<input checked="" type="checkbox"/>	ENERGY CODE COMPLIANCE INSPECTION	BC 110.3.5	<input checked="" type="checkbox"/> MAINTENANCE INFORMATION IID1

MECHANICAL SYMBOLS LIST:

- METER
- 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
- N.O. NORMALLY OPEN/ON
- N.C. NORMALLY CLOSED/OFF
- C.W. CLOSED WINTER
- C.S. CLOSED SUMMER
- POINT OF CONNECTION TO EXISTING

- CW- COLD WATER (DOMESTIC)
- CWF- COLD WATER FILL
- HWS- BUILDING HEAT SUPPLY
- HWR- BUILDING HEAT RETURN
- DHW- BUILDING DHW RETURN
- DHS- 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



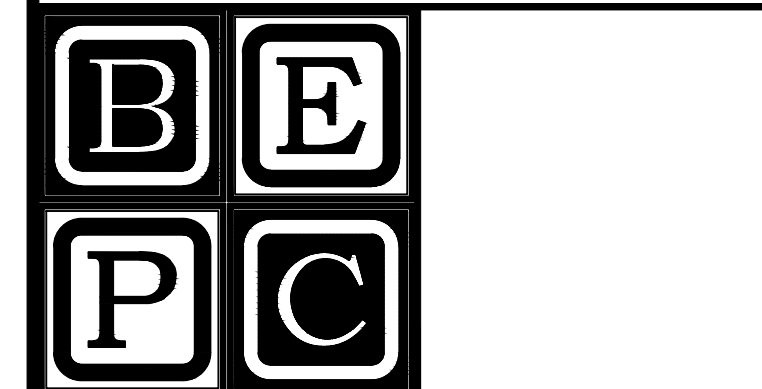
CLIENT:
 AEGIS ENERGY SERVICES, INC
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 TEL.: 413-536-1156
 FAX: 413-536-1104
 ATTN: KEVIN MAY

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STATEMENT:
 IT IS A VIOLATION OF THE LAW FOR ANY PERSON, UNLESS ACTING UNDER THE DIRECTION OF A LICENSED ENGINEER/ARCHITECT, TO ALTER IN ANY WAY, ANY ITEM ON THESE DRAWINGS. IF AN ITEM 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 ALTERATION ON THE DRAWING.

PROPRIETARY STATEMENT:
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 PHONE: (516) 561-5922
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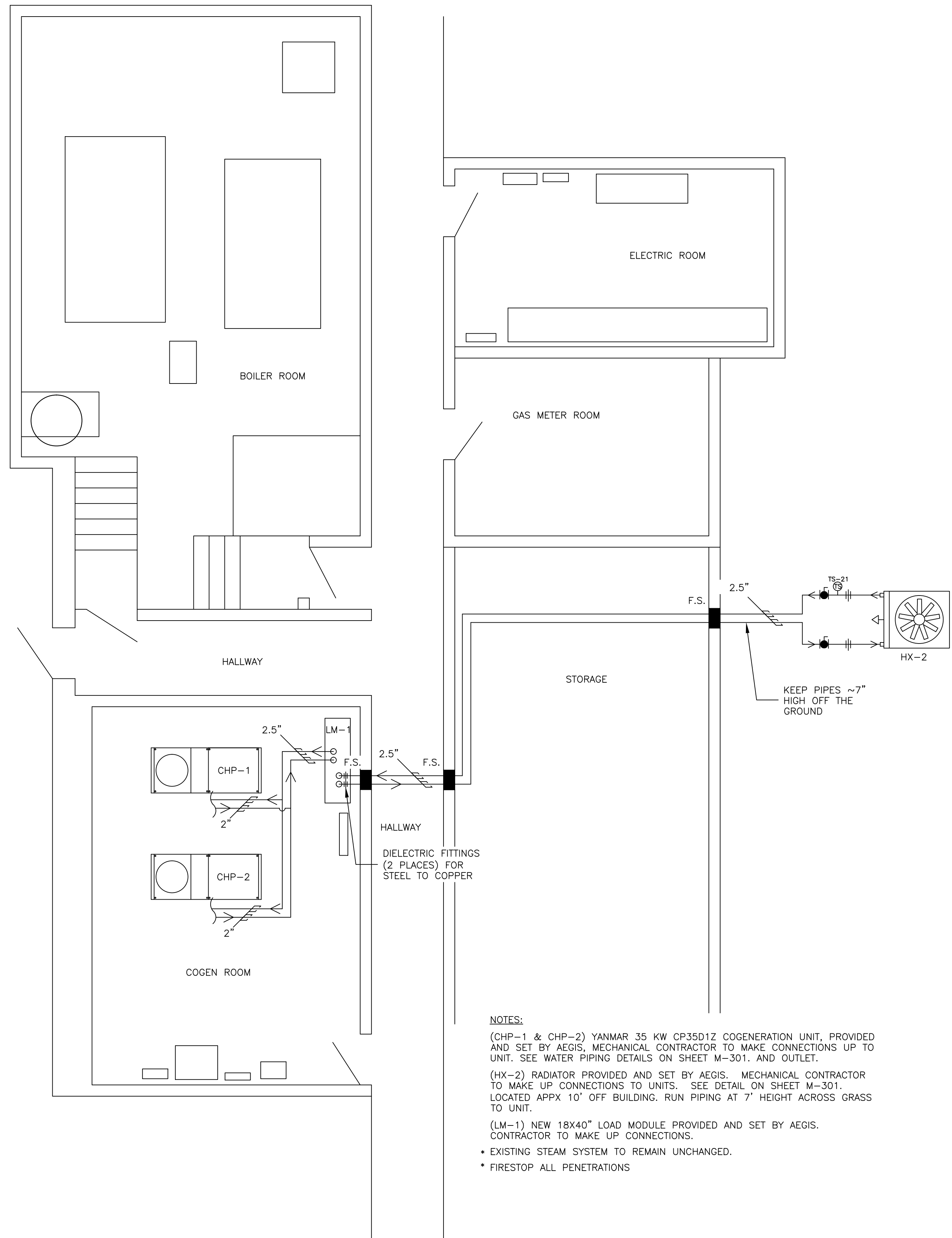


PROJECT
 PLAZA RESIDENCES
 COGENERATION PROJECT
 37 NEW LOTS AVE
 BROOKLYN, NY 11212

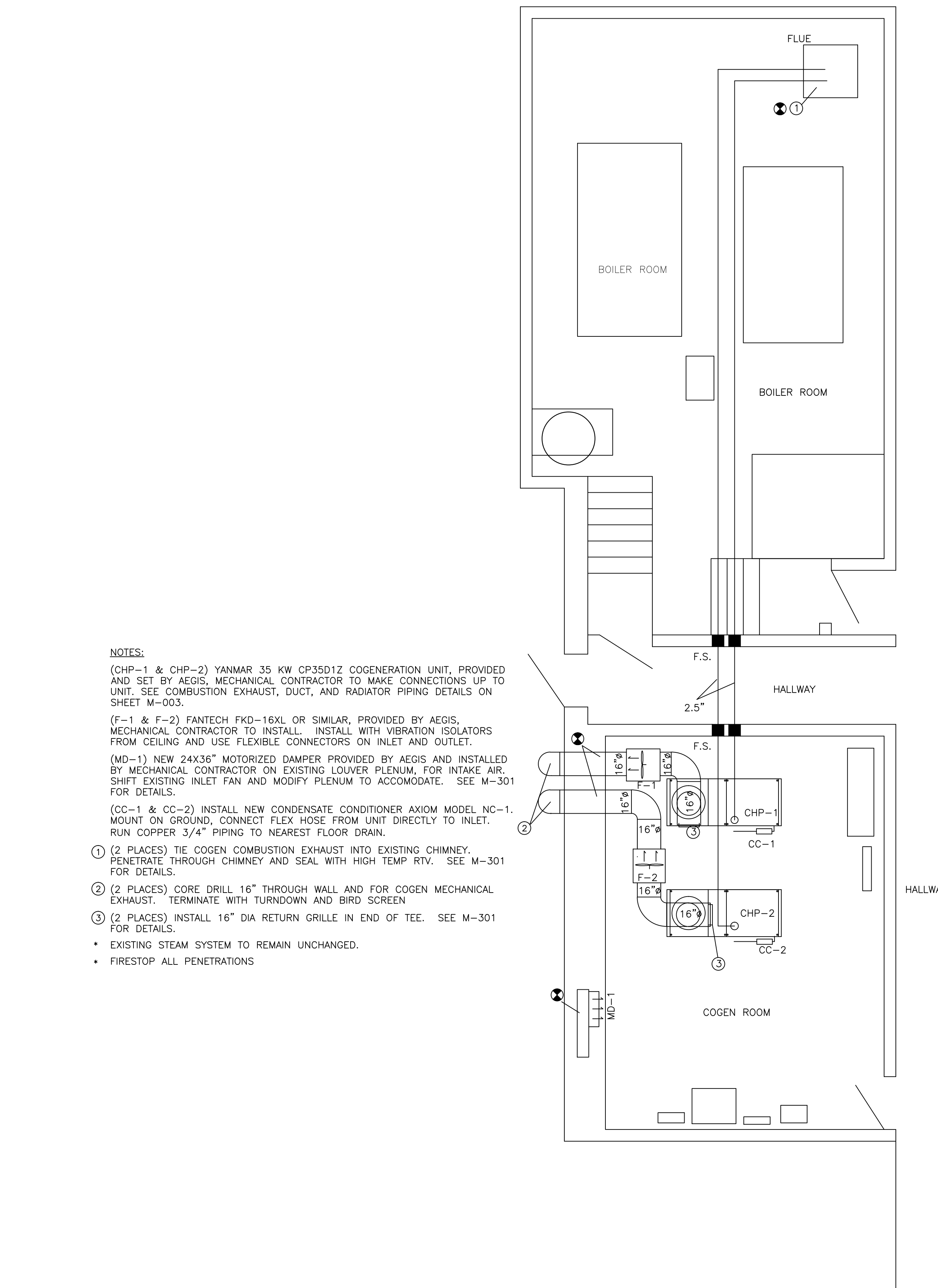
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 TITLE SHEET, GENERAL
 NOTES & MECHANICAL
 SYMBOL LIST

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DRN BY:	KM	DATE:	10/20/16
CKD BY:	.	DATE:	.
FINAL CKD BY:	.	DATE:	.
SCALE:	AS NOTED	DATE:	
DWG No.	PAGE 1 OF 9		

T-001.00
 PROJECT NO.
 60-336
 B-SCAN:

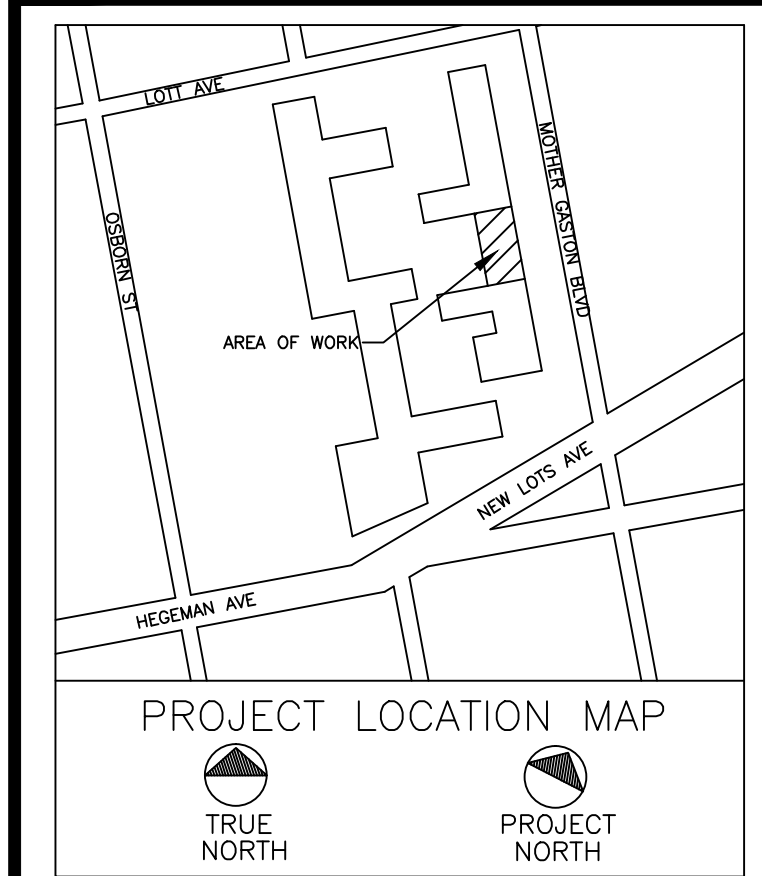


1 COGENERATION MECHANICAL PIPING LAYOUT
M-201 SCALE: 1/4"=1'-0"



2 COGENERATION HOT AIR EXHAUST & FLUE LAYOUT
M-201 SCALE: 1/4"=1'-0"

NO.	DATE	REVISION DESCRIPTION



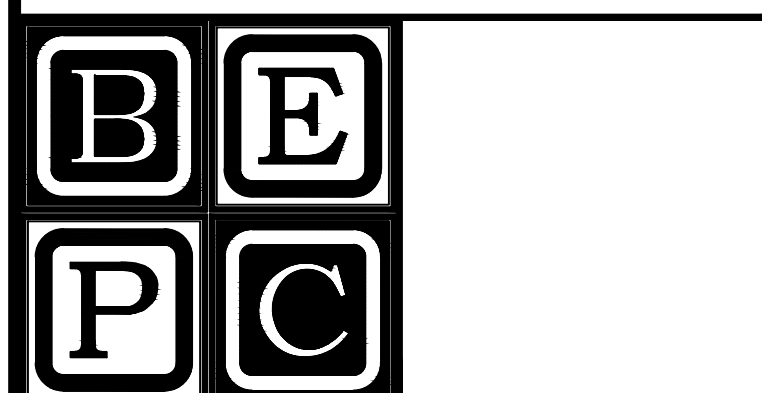
CLIENT:
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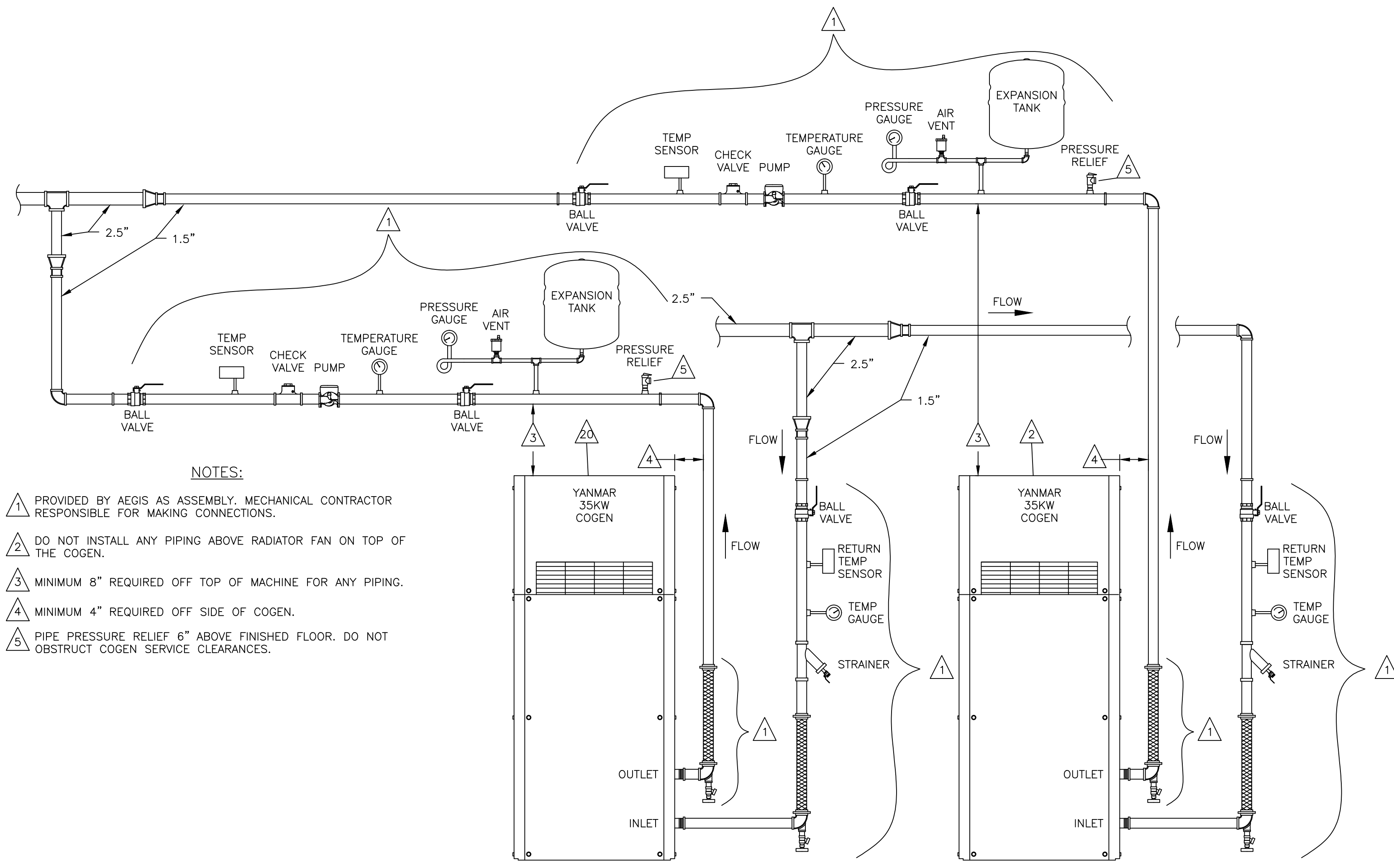


PROJECT
**PLAZA RESIDENCES
 COGENERATION PROJECT**
 37 NEW LOTS AVE
 BROOKLYN, NY 11212

DRAWING TITLE:
**CELLAR MECHANICAL
 HVAC/PIPING LAYOUT**

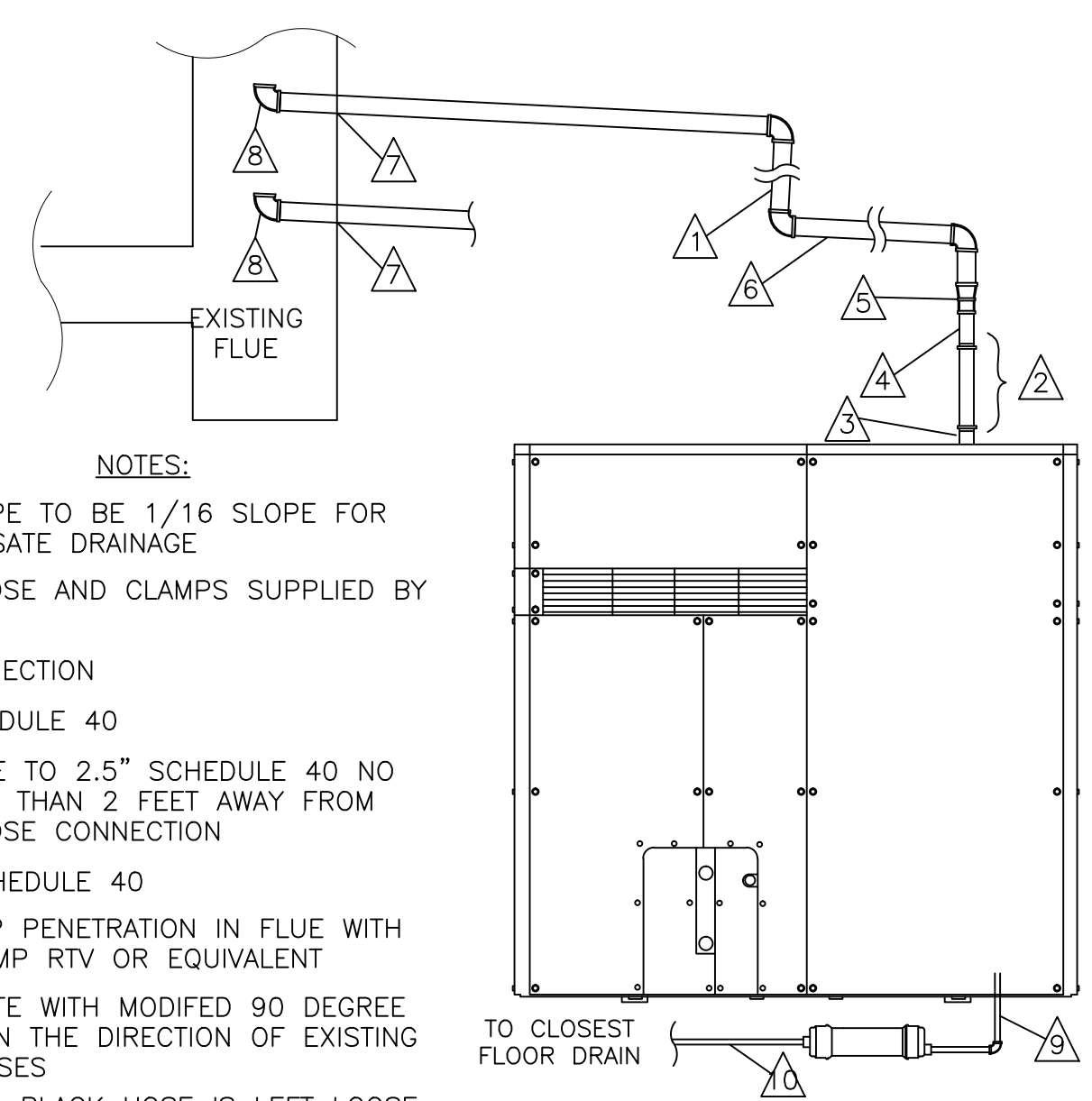
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FINAL CKD BY:	.	DATE:	.
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M-201.00
 PROJECT NO.
60-336
 B-SCAN:



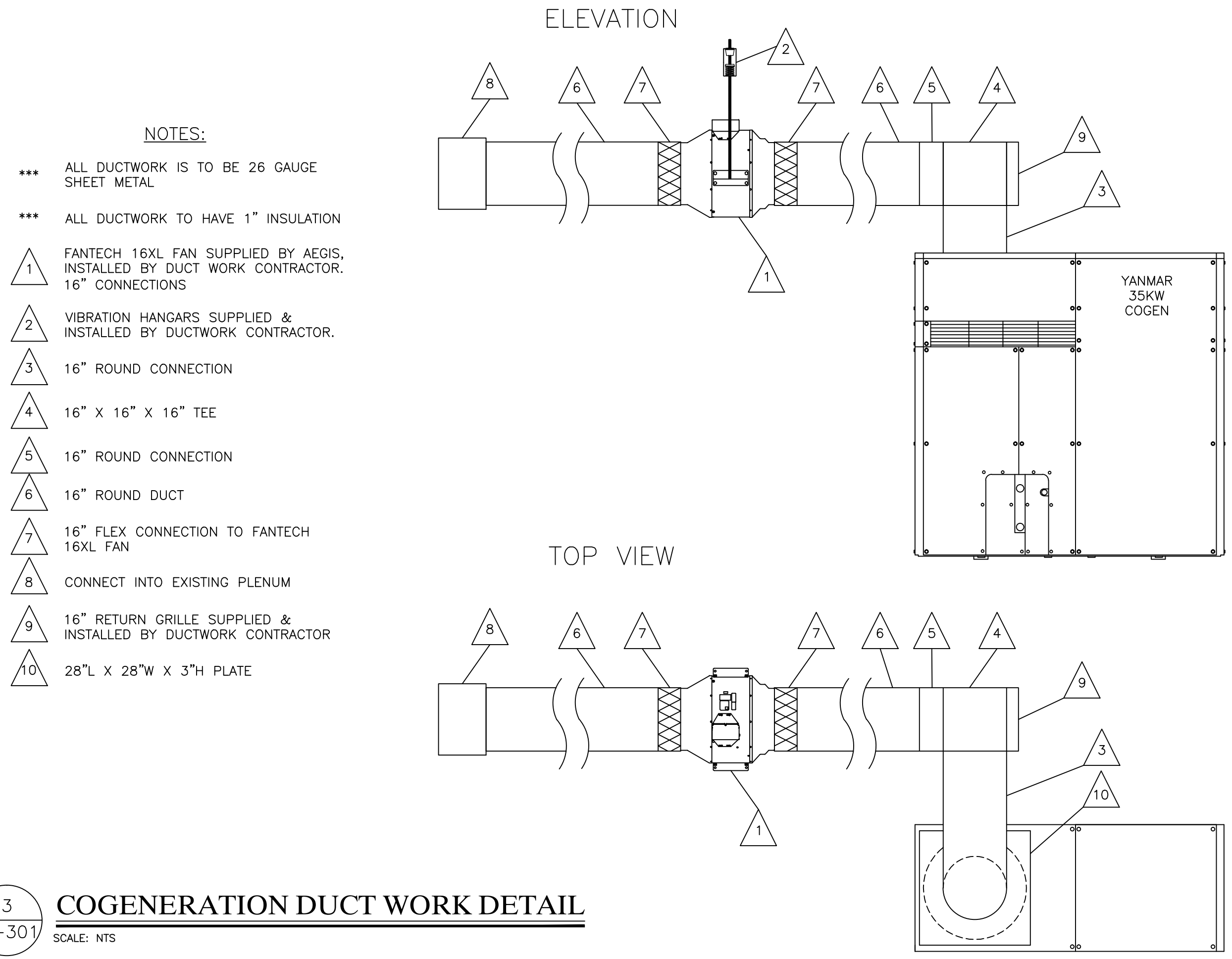
- NOTES:**
- 1 PROVIDED BY AEGIS AS ASSEMBLY. MECHANICAL CONTRACTOR RESPONSIBLE FOR MAKING CONNECTIONS.
 - 2 DO NOT INSTALL ANY PIPING ABOVE RADIATOR FAN ON TOP OF THE COGEN.
 - 3 MINIMUM 8" REQUIRED OFF TOP OF MACHINE FOR ANY PIPING.
 - 4 MINIMUM 4" REQUIRED OFF SIDE OF COGEN.
 - 5 PIPE PRESSURE RELIEF 6" ABOVE FINISHED FLOOR. DO NOT OBSTRUCT COGEN SERVICE CLEARANCES.

1
M-301
COGENERATION WATER PIPING DETAIL
SCALE: NTS



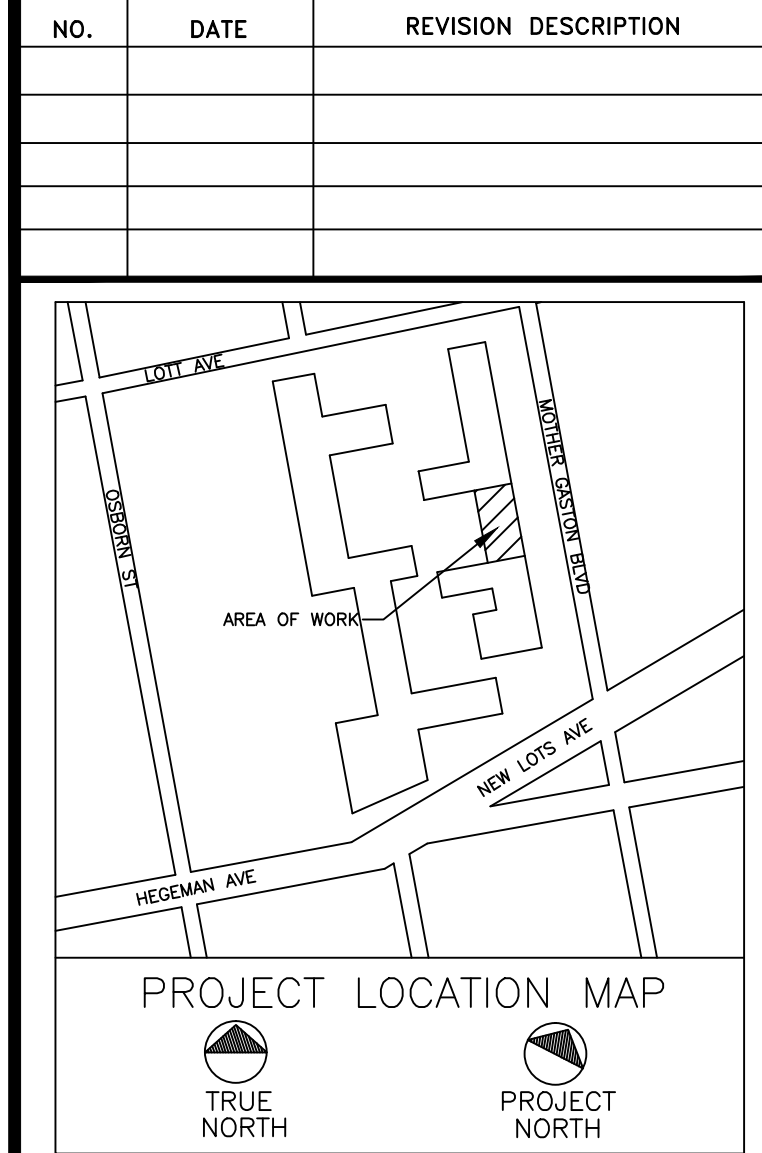
- NOTES:**
- 1 FLUE PIPE TO BE 1/16 SLOPE FOR CONDENSATE DRAINAGE
 - 2 BLUE HOSE AND CLAMPS SUPPLIED BY AEGIS.
 - 3 2" CONNECTION
 - 4 2" SCHEDULE 40
 - 5 INCREASE TO 2.5" SCHEDULE 40 NO FURTHER THAN 2 FEET AWAY FROM BLUE HOSE CONNECTION
 - 6 2.5" SCHEDULE 40
 - 7 FIRESTOP PENETRATION IN FLUE WITH HIGH TEMP RTV OR EQUIVALENT
 - 8 TERMINATE WITH MODIFIED 90 DEGREE ELBOW IN THE DIRECTION OF EXISTING FLUE GASES
 - 9 INTERNAL BLACK HOSE IS LEFT LOOSE TO CONNECT TO CONDENSATE CANISTER OUTSIDE OF COGEN.
 - 10 3/4" COPPER TO THE CLOSEST FLOOR DRAIN

2
M-301
COGENERATION FLUE DETAIL
SCALE: NTS



- NOTES:**
- *** ALL DUCTWORK IS TO BE 26 GAUGE SHEET METAL
 - *** ALL DUCTWORK TO HAVE 1" INSULATION
 - 1 FANTECH 16XL FAN SUPPLIED BY AEGIS. INSTALLED BY DUCT WORK CONTRACTOR. 16" CONNECTIONS
 - 2 VIBRATION HANGARS SUPPLIED & INSTALLED BY DUCTWORK CONTRACTOR.
 - 3 16" ROUND CONNECTION
 - 4 16" X 16" X 16" TEE
 - 5 16" ROUND CONNECTION
 - 6 16" ROUND DUCT
 - 7 16" FLEX CONNECTION TO FANTECH 16XL FAN
 - 8 CONNECT INTO EXISTING PLENUM
 - 9 16" RETURN GRILLE SUPPLIED & INSTALLED BY DUCTWORK CONTRACTOR
 - 10 28"L X 28"W X 3"H PLATE

3
M-301
COGENERATION DUCT WORK DETAIL
SCALE: NTS



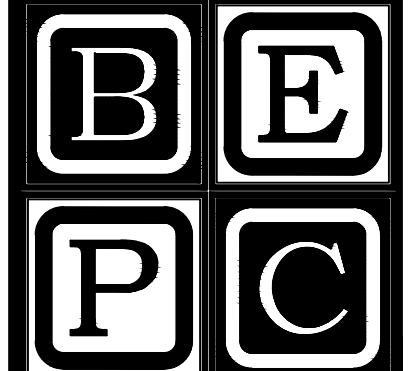
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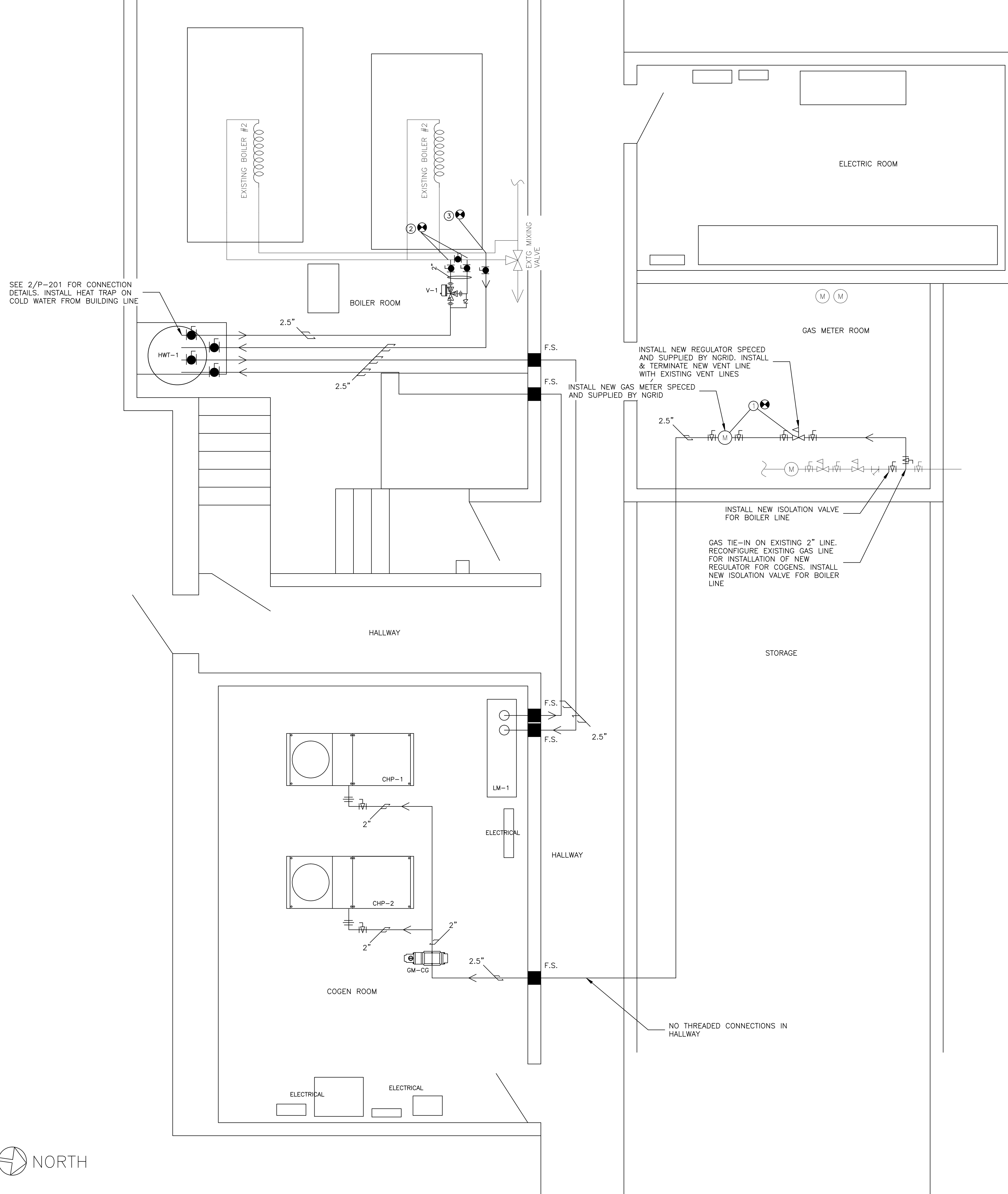
PROJECT
PLAZA RESIDENCES
COGENERATION PROJECT
37 NEW LOTS AVE
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**MECHANICAL/
HVAC DETAILS**

DESIGN BY:	KM	DATE:	10/20/16
DRN BY:	KM	DATE:	10/20/16
CKD BY:	.	DATE:	.
FINAL CKD BY:	.	DATE:	.
SCALE:	AS NOTED	DATE:	.
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M-301.00
PROJECT NO.
60-336

B-SCAN:



NOTES:

(CHP-1 & CHP-2) PROVIDED AND SET BY AEGIS, PLUMBER TO MAKE CONNECTIONS UP TO UNIT. INSTALL FLEX CONNECTORS SUPPLIED BY AEGIS AT UNIT. INSTALL GAS UNION AND SHUTOFF VALVE ON UNIT.

(LM-1) PROVIDED AND SET BY AEGIS, PLUMBER TO MAKE UP ALL CONNECTIONS TO UNIT. SEE DETAILS ON M-101

(HWT-1) PROVIDED AND SET BY AEGIS, PLUMBER TO MAKE CONNECTIONS UP TO TANKS. INSTALL VALVES AT TANK ON ALL LINES, INSTALL AEGIS SUPPLIED PRV TO TANK AND PIPE TO FLOOR. INSTALL AEGIS SUPPLIED GAGE & RELIEF PROVIDED BY AEGIS ONTO TANK. INSTALL 1" DRAIN ON TANK. SEE M-101 & P-201 FOR DETAILS.

(V-1) VALVE AND UNIONS PROVIDED BY AEGIS, ALL OTHER COMPONENTS PROVIDED BY PLUMBER. TIE INTO EXISTING LINES AS SHOWN. INCREASE PIPING SIZE TO 2.5" AFTER 3-WAY VALVE

(GM-CG) NEW RM-2000 GAS METER PROVIDED BY AEGIS, INSTALLED BY PLUMBER. PLUMBER TO PROVIDE MATCHING FLANGES AND GASKETS.

① (GM-UTIL) PLUMBER TO INSTALL NEW UTILITY GAS METER, REGULATOR, EXTERIOR VENTING, AND ALL REQUIRED ACCESSORIES PER NGRID SPECS. 820CFH, 14" WC.

② TIE INTO EXISTING 3" HOT LINE OF DHW SYSTEM, 2 PLACES. USE 2" PIPING FOR TAPS AND INTO 3-WAY VALVE, BUT LIMIT TOTAL FOOTAGE OF 2" PIPING TO 6' AND USE NO MORE THAN 1 ELBOWS. SEE 1/M-101 FOR DETAILS.

③ TIE INTO EXISTING 3" COLD LINE OF DHW SYSTEM. 2.5" LINE WITH VALVE. SEE 1/M-101 FOR DETAILS

SEE 2/P-201 FOR CONNECTION DETAILS. INSTALL HEAT TRAP ON COLD WATER FROM BUILDING LINE

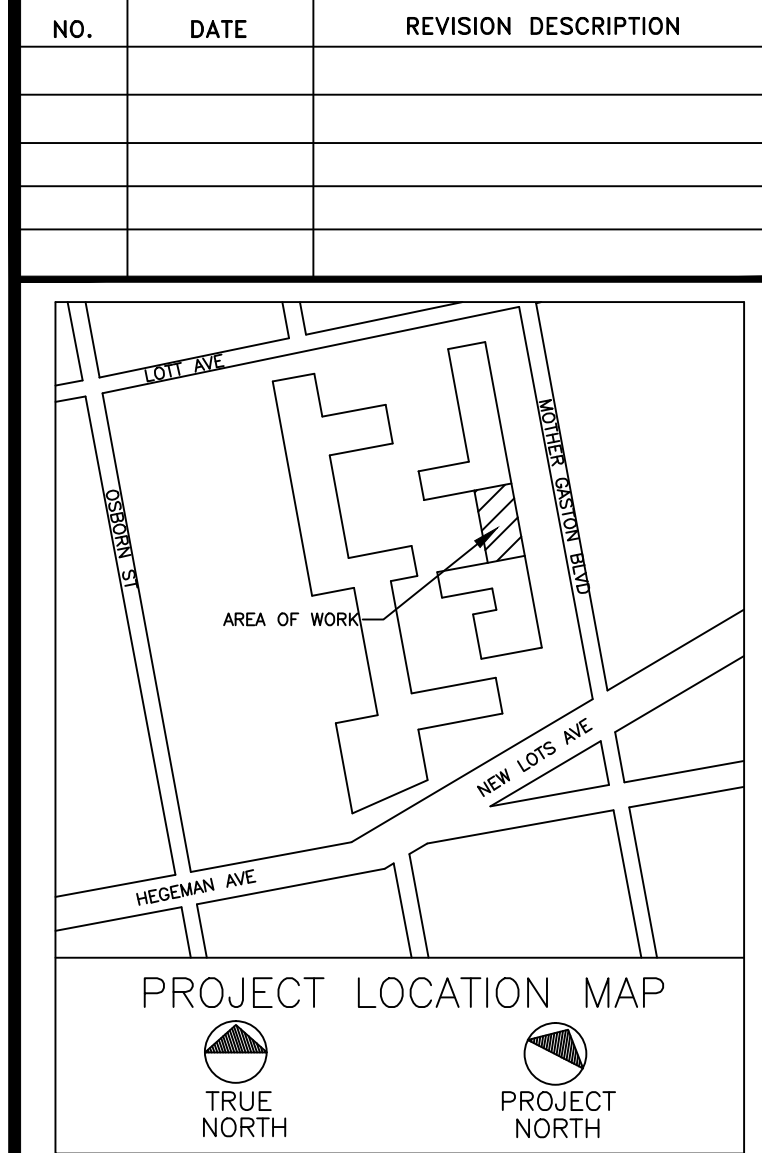
INSTALL NEW REGULATOR SPECED AND SUPPLIED BY NGRID. INSTALL & TERMINATE NEW VENT LINE WITH EXISTING VENT LINES

INSTALL NEW GAS METER SPECED AND SUPPLIED BY NGRID

INSTALL NEW ISOLATION VALVE FOR BOILER LINE

GAS TIE-IN ON EXISTING 2" LINE. RECONFIGURE EXISTING GAS LINE FOR INSTALLATION OF NEW REGULATOR FOR COGENS. INSTALL NEW ISOLATION VALVE FOR BOILER LINE

NO THREADED CONNECTIONS IN HALLWAY



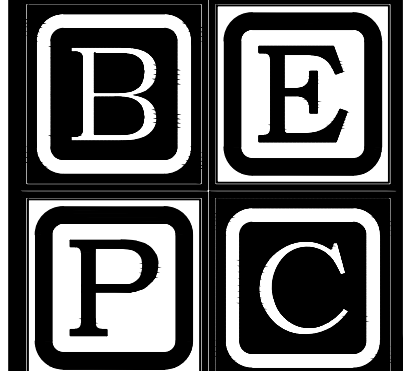
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PROJECT
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DRAWING TITLE:
**CELLAR PLUMBING/GAS
 PIPING LAYOUT**

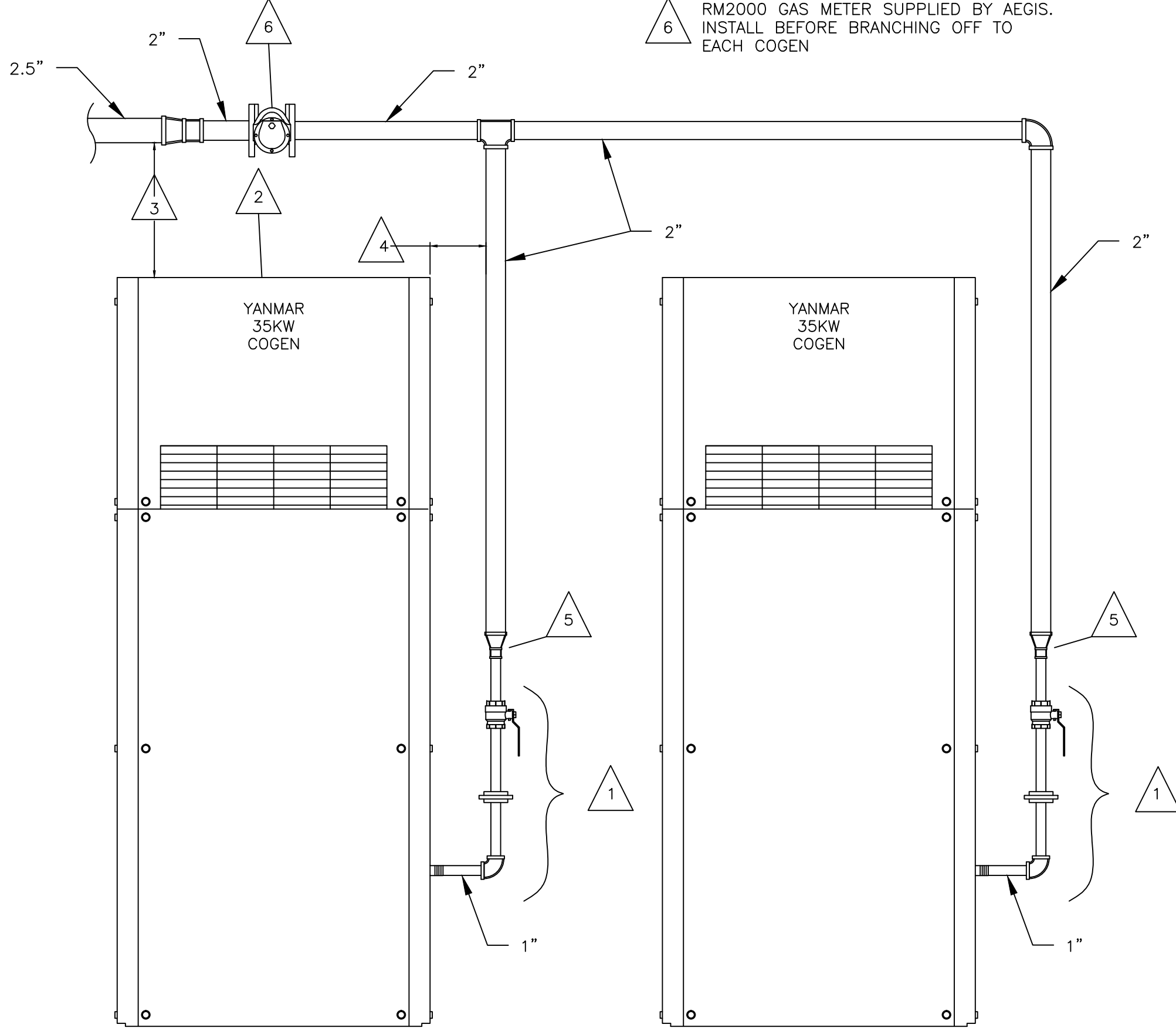
DESIGN BY:	KM	DATE:	10/20/16
DRN BY:	KM	DATE:	10/20/16
CKD BY:	.	DATE:	.
FINAL CKD BY:	.	DATE:	.
SCALE:	AS NOTED	DATE:	.
DWG No.	PAGE 6 OF 9		

P-101.00
 PROJECT NO.
60-336

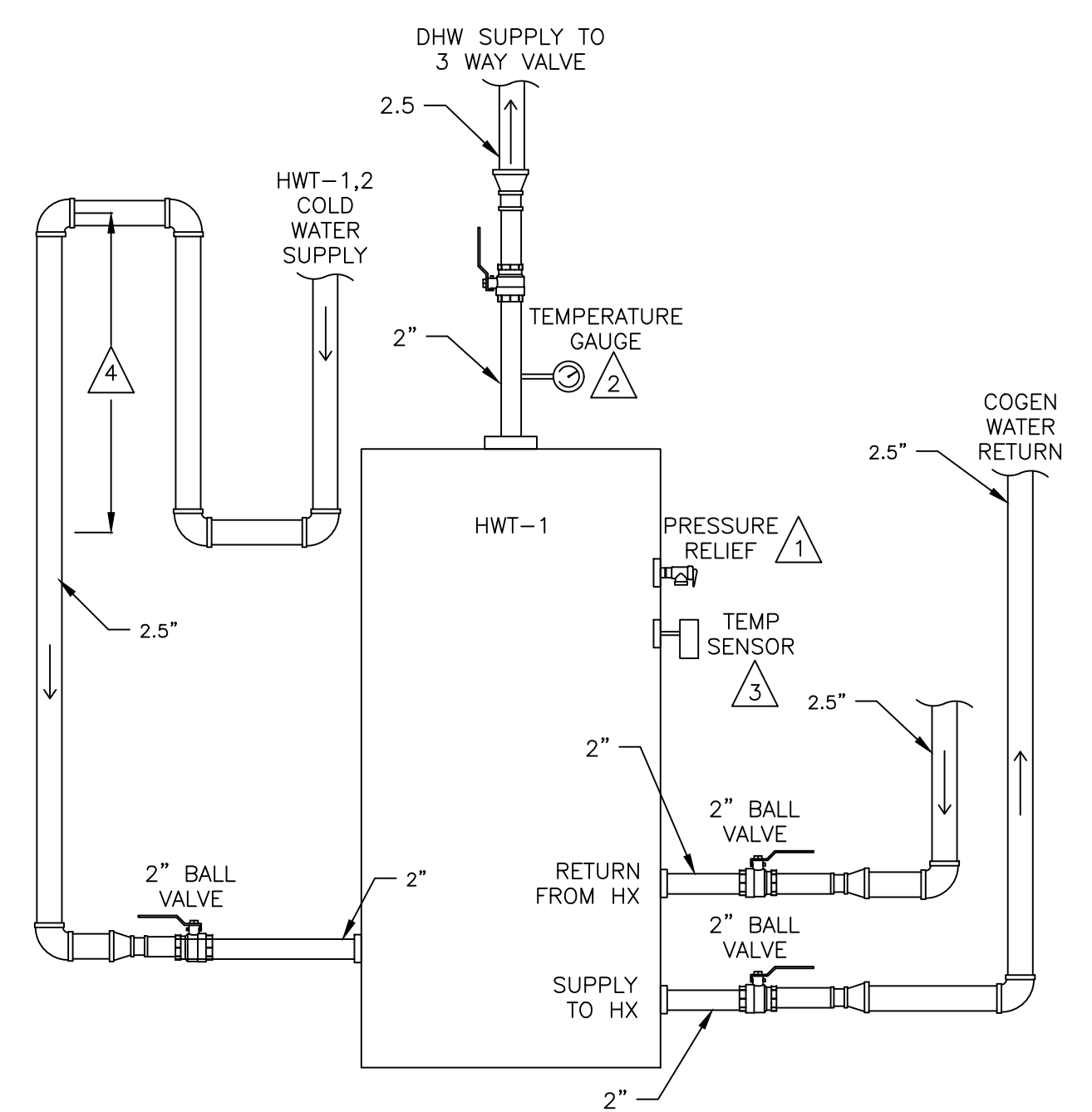
B-SCAN:



- NOTES:
- 1 INSTALL UNION AND VALVE AT COGEN. DO NOT EXCEED MORE THAN 2' OF 1" PIPING
 - 2 DO NOT INSTALL ANY PIPING ABOVE RADIATOR FAN ON TOP OF THE COGEN.
 - 3 MINIMUM 8" REQUIRED OFF TOP OF MACHINE FOR ANY PIPING.
 - 4 MINIMUM 2" REQUIRED OFF SIDE OF COGEN.
 - 5 REDUCE FROM 2" TO 1"
 - 6 RM2000 GAS METER SUPPLIED BY AEGIS. INSTALL BEFORE BRANCHING OFF TO EACH COGEN

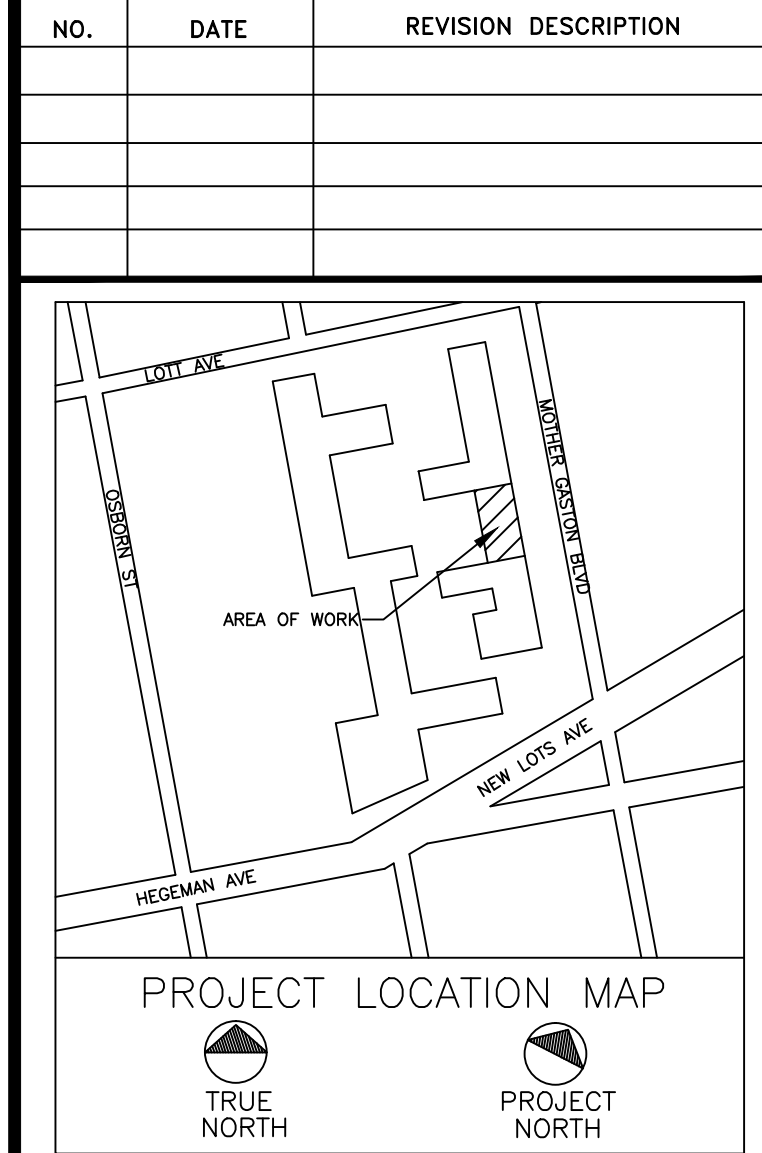


1 COGENERATION GAS CONNECTION DETAIL
P-201 SCALE: NTS



- NOTES:
- 1 PRESSURE RELIEF PROVIDED BY AEGIS. PLUMBER TO INSTALL AND PIPE TO 6" ABOVE FINISHED FLOOR. DO NOT OBSTRUCT TANK CONNECTIONS
 - 2 TEMP GAGE PROVIDED BY AEGIS. PLUMBER TO INSTALL.
 - 3 TEMP SENSOR AND WELL PROVIDED BY AEGIS. PLUMBER TO INSTALL WELL IN TANK.
 - 4 MINIMUM 27" HEIGHT FOR HEAT TRAP

2 COGENERATION WATER PIPING DETAIL
P-201 SCALE: NTS



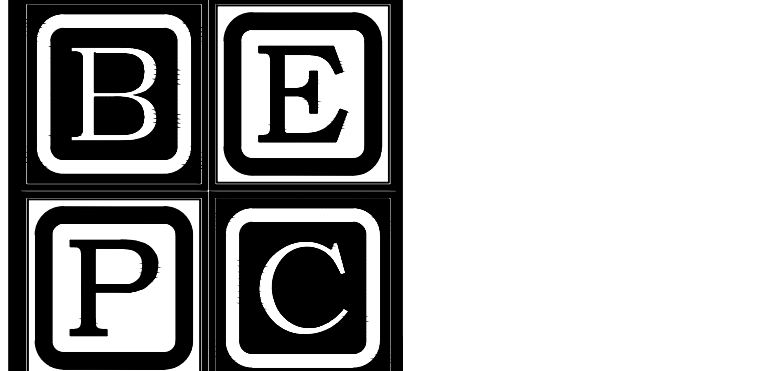
CLIENT:
AEGIS ENERGY SERVICES, INC
 55 JACKSON STREET
 HOLYOKE, MA 01040
 TEL.: 413-536-1156
 FAX: 413-536-1104
 ATTN: KEVIN MAY

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 PHONE: (516) 561-5922
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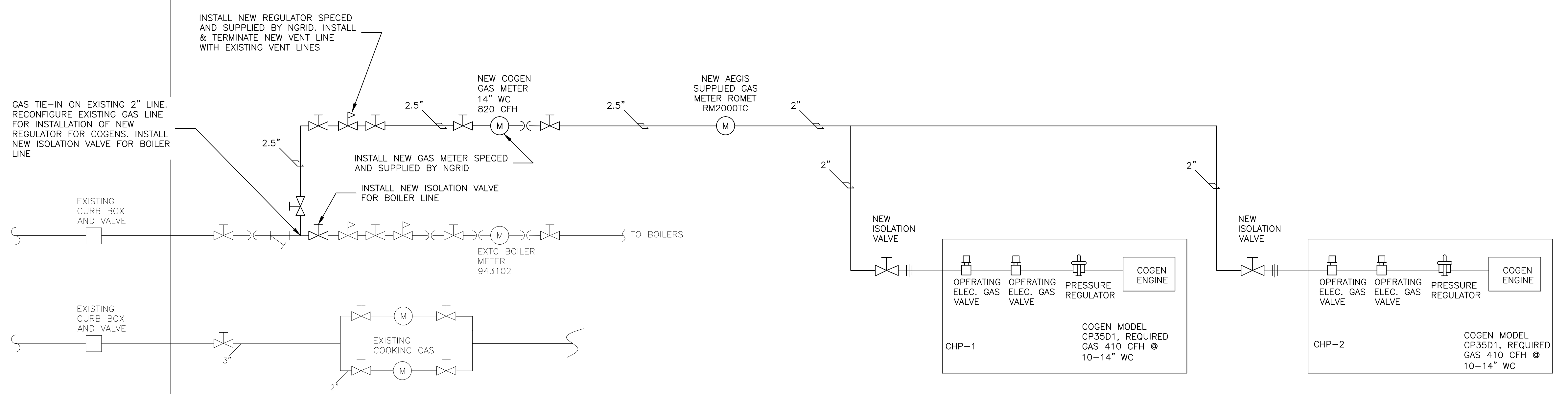
PROJECT
**PLAZA RESIDENCES
 COGENERATION PROJECT**
 37 NEW LOTS AVE
 BROOKLYN, NY 11212

DRAWING TITLE:
**GAS RISER DIAGRAM &
 PLUMBING DETAILS**

DESIGN BY:	KM	DATE:	10/20/16
DRN BY:	KM	DATE:	10/20/16
CKD BY:	.	DATE:	.
FINAL CKD BY:	.	DATE:	.
SCALE:	AS NOTED	DATE:	
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3 COGENERATION GAS RISER DIAGRAM
P-201 SCALE: NTS

NO.	DATE	REVISION DESCRIPTION

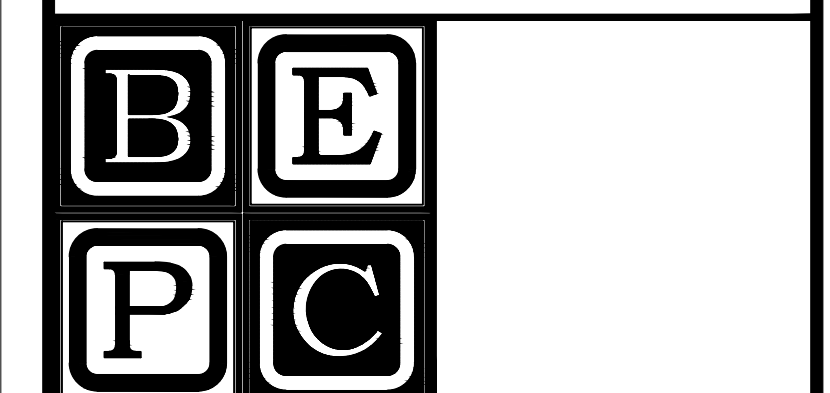
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PROJECT
**PLAZA RESIDENCES
 COGENERATION PROJECT**
 37 NEW LOTS AVE
 BROOKLYN, NY 11212

DRAWING TITLE:
CELLAR ELECTRICAL LAYOUT

DESIGN BY:	KM	DATE:	10/20/16
DRN BY:	KM	DATE:	10/20/16
CKD BY:	.	DATE:	.
FINAL CKD BY:	.	DATE:	.
SCALE:	AS NOTED	DATE:	.
DWG No.	PAGE 8 OF 9		

E-101.00
 PROJECT NO.
60-336

B-SCAN:

KEY	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	250	1	250 MCM	N/A	#4	2.5"
3	DC-1 TO 1600A SWITCH	208	250	1	250 MCM	N/A	#4	2.5"

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 600A PANEL	208	200	1	3/0	3/0	#6	2"
16	ATS TO SBDP	208	200	1	3/0	3/0	#6	2"
17	SBDP TO SBDP-BR	208	100	1	#3	#3	#8	1.25"

EQUIPMENT PROVIDED BY AGIS:
 (ALL MOUNTING, WIRING, SERVICE DISCONNECTS, AND TERMINATIONS BY ELECTRICIAN EXCEPT AS NOTED)

(CHP-1 & CHP-2) COGENS (2) 35 KW YANMAR CP35D1 - SET BY AGIS. ALL CONNECTIONS IN AREA OF COGEN SHOWN. SEPARATE POWER AND CONTROL CONDUITS. SEPARATE STANDBY AND NORMAL POWER CIRCUITS. ALL CONTROL WIRES CAN BE RUN IN THE SAME CONDUIT. INSTALL SUPPLEMENTARY #1/0 CHASSIS GROUND TO BUILDING STEEL OR EARTH GROUNDING ROD.

(HX-2) COGEN RADIATOR.

(CCP) COGEN CONTROL PANEL.

(TS-1,2,13) TEMPERATURE SENSORS FIELD INSTALLED BY PLUMBERS

(P-1,2) PUMPS INSTALLED ON PIPING ABOVE COGENS BY PLUMBER.

(F-1, F-2) CEILING MOUNTED FANS. INSTALL RHEOSTAT ON WALL NEAR UNIT, PROVIDED LOOSE WITH UNIT.

(GM) GAS METER INSTALLED BY PLUMBERS.

(MD-1) MOTORIZED DAMPER INSTALLED BY MECHANICAL CONTRACTOR.

(V-1) 3 WAY VALVE PROVIDED BY AGIS AND INSTALLED BY PLUMBER IN CEILING

(H8043) H8043 VERIS METER INSTALLED ON MAIN BUS DOWNSTREAM OF CONED CT'S FOR METERING BUILDING KW IMPORT & VOLTAGE

(H8035-1,2) INSTALL H8035-1 METER IN SBDP, H8035-2 IN DC-1

SUPPLIED, INSTALLED & TERMINATED BY ELECTRICIAN:

(DC-2) NEW 240VAC, 200 AMP RATED, HEAVY DUTY FUSED DISCONNECT WITH 200 AMP FUSES. VISIBLE BREAK, GANG OPERATED.

(XFER) NEW 75 KVA, 208A TO 120/208Y TRANSFORMER. INSTALL GROUNDING ROD TO CHASSIS BUT DO NOT BOND TO NEUTRAL. INSTALL WITH DELTA CONNECTED TO THE GENERATOR AND WYE TOWARDS THE ATS. DO NOT BOND NEUTRAL TO GROUND.

(ATS) NEW 200A, 208VAC, 3 POLE ATS, ASCO 300 OR SIMILAR.

(SBDP) NEW 200A, 120/208V, 3 POLE DISTRIBUTION BOARD WITH 200A MAINS BREAKER. SEE SCHEDULE ON THIS SHEET.

(DC-3) NEW 200A, 208V RATED 3 POLE FUSED DISCONNECT WITH 200A FUSES. TAP FROM INCOMING FEEDERS ON EXISTING 800A DISTRIBUTION PANEL. CONNECT TO BOTH SETS OF INCOMING FEEDERS OR CONNECT TO SPARE LUG ON PANEL.

(DC-1) NEW 400A, 208V RATED 3 POLE FUSED DISCONNECT WITH 250A FUSES. TAP FROM INCOMING FEEDERS ON EXISTING 800A DISTRIBUTION PANEL. CONNECT TO BOTH SETS OF INCOMING FEEDERS OR CONNECT TO SPARE LUG ON PANEL. INSTALL 8035-300 POWER METER SUPPLIED BY AGIS ON LOAD SIDE OF DISCONNECT FOR COGEN POWER MEASUREMENT.

(ESTOP) NEW BREAK GLASS STATION FOR COGENS, 2 SETS OF PILOT CONTACTS.

NOTES: (1 ONLY)

- 1 RE-FEED EXISTING 100A BOILER PANEL FROM SBDP.
- 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.

NEW SBDP 200A MAIN CIRCUIT BREAKER PANEL SCHEDULE

VOLTAGE: 120/208V, 3φ, 4W
 MAIN FEEDER: 1 SET OF (4) #3/0 CU, #6 CU G IN 2" C
 MOUNTING: SURFACE
 AIC: 65 KA

CIRCUIT DESC.	TRIP AMPS	A	B	C	TRIP AMPS	CIRCUIT DESC.
MAIN FUSE	200A	1	•	2	100A	BOILERS
		3	•	4		
		5	•	6		
CCP	30A	7	•	8	X	SPARE
		9	•	10		
		11	•	12		
GFCI	20A	13	•	14	X	SPARE
SPARE	X	15	•	16	X	SPARE
SPARE	X	17	•	18	X	SPARE

KEY	MODEL	VOLTAGE	AMPS	NORMAL	STANDBY
ATS	ASCO 300	208	200	LN	CPNL

TRANSFORMER SCHEDULE

KEY	SIZE	PHASE	PRIMARY						
			TYPE	VOLTS	SETS	CONDUCTOR	NEUTRAL	GROUND	CONDUIT
XFMR	75kVA	3	DELTA	208	1	3/0	N/A	#6	2"
			WYE	208	1	3/0	3/0	#6	2"

POWER RUNS: (10-15)
 <100A

- 10 FROM CCP TO SBDP (4) #10 W/ SS (30A)
- 11 (2 PLACES) FROM PUMP TO CCP P-1,2 - (2) #12 W/GND & SS (15A)
- 12 (2 PLACES) FROM FAN TO CCP F-1,2 - (2) #10 W/GND & SS (20A)
- 13 FROM HX-2 TO CCP RADIATOR - (3) #12 W/GND & 3P NEMA3R SS (15A)
- 14 FROM LM-1 TO SBDP GFCI - (2) #12 W/ GND. (20A)
- 15 FROM LM-1 TO CCP P-3,4 - (3) #12 W/GND & SS (15A)

CONTROLS: (20-27)

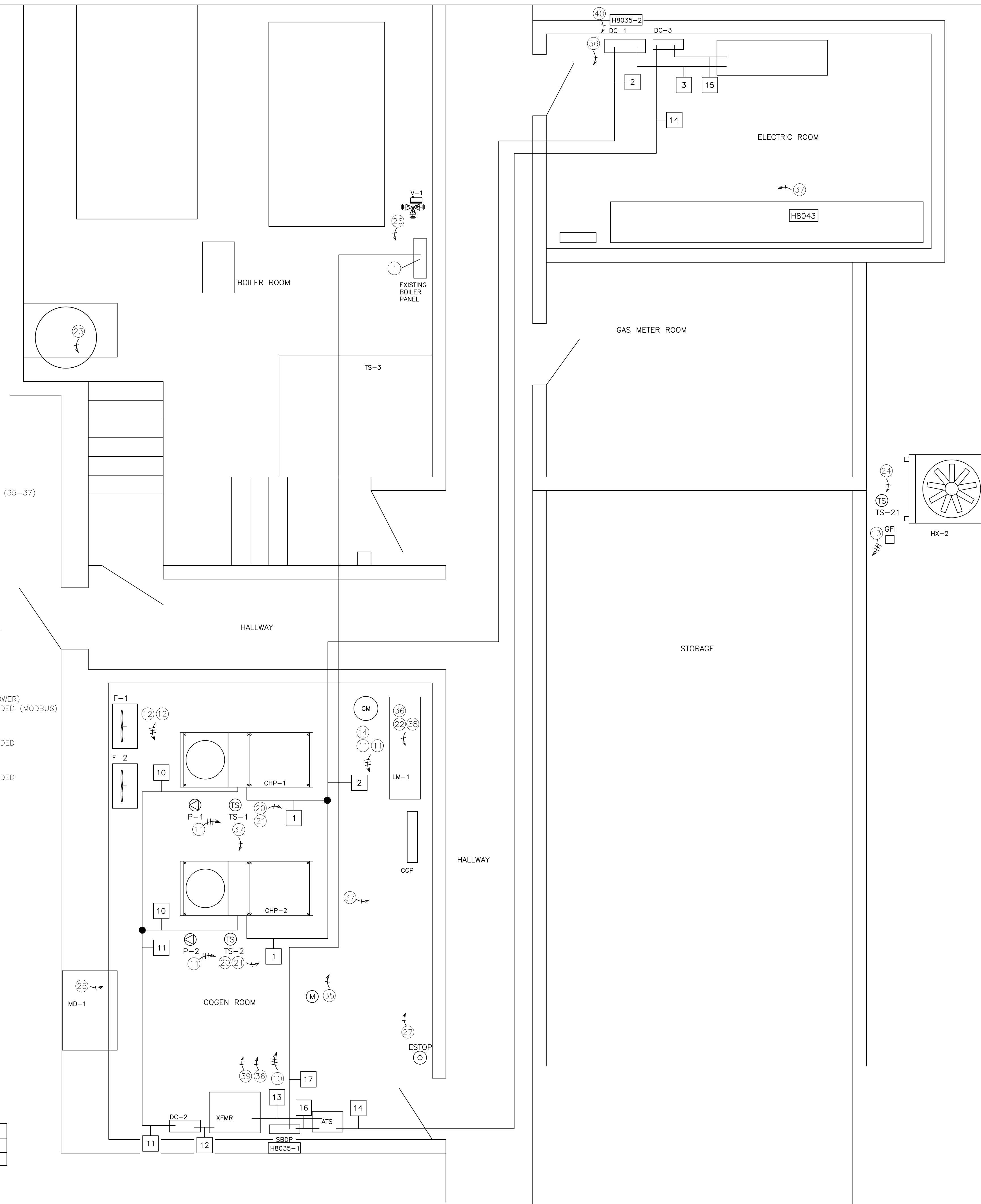
- 20 (2 PLACES) FROM CHP-1/2 TO CCP (10) #18/2 SHIELDED, WIRING NOTES BELOW (1) CAT5e SHIELDED
- 21 (2 PLACES) FROM TS-1,2 TO CCP (1) #18/2 SHLD
- 22 FROM LM-1 TO CCP TS-3,11,12 (6) #18/2 SHIELDED (2) #18 THHN W/ SERVICE W (1) #18 SHIELDED
- 23 FROM HWT-1 TO CCP TS-13 (1) #18/2 SHIELDED
- 24 FROM HX-2 TO CCP TS-21 (1) #18/2 SHIELDED
- 25 FROM MD-1 TO CCP (1) #18/2 SHLD (POWER) (1) #18/2 SHLD (STATUS)
- 26 FROM V-1 TO CCP (2) #18 THHN W/ SERVICE W (1) #18 SHIELDED
- 27 FROM ESTOP TO CCP (2) #18/2 SHLD

PERFORMANCE MONITORING: (35-37)

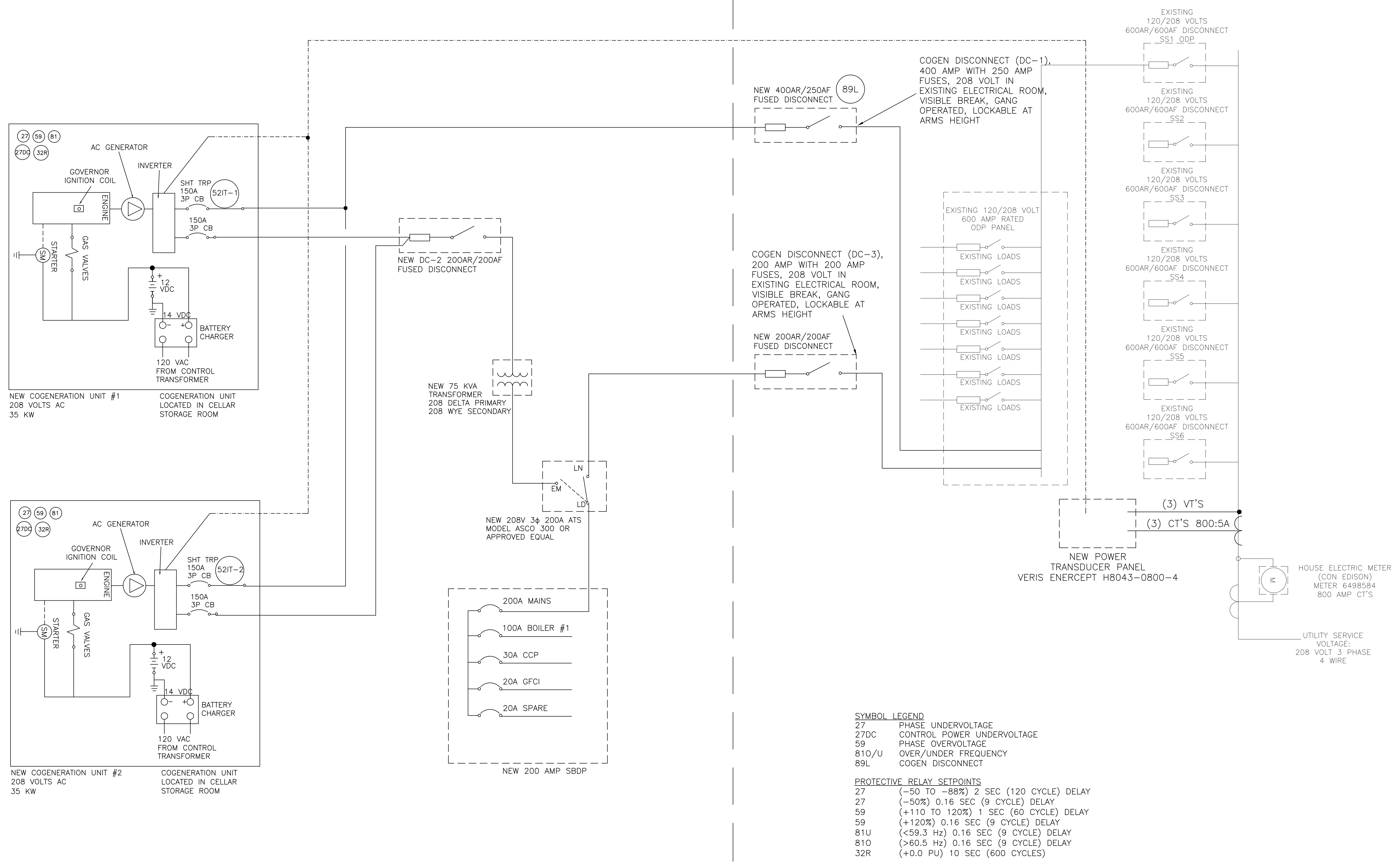
- 35 FROM GAS METER TO CCP GAS PULSE (1) 18/2 SHIELDED
- 36 DAISY CHAIN #1 DC-1 TO SBDP (1) 18/2 SHLD SBDP TO LM-1 (BTU) (1) 18/2 SHLD LM-1 (BTU) TO CCP (1) 18/2 SHLD
- 37 DAISY CHAIN #2 H8043 (MANS) TO CHP-1 (1) 18/2 SHLD CHP-1 TO CHP-2 (1) 18/2 SHLD CHP-2 TO CCP (1) 18/2 SHLD
- 38 FROM LM-1 (BTU) TO CCP (1) #18/2 SHLD (24V POWER) (1) #18/3 TWISTED SHIELDED (MODBUS)
- 39 FROM H8035-1 TO CCP PARASITIC POWER (1) 18/2 TWISTED SHIELDED
- 40 FROM H8035-2 TO CCP COGEN POWER (1) 18/2 TWISTED SHIELDED

COGEN INTERLOCK: (45)

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



COGEN ROOM MAIN ELECTRIC ROOM



NEW COGENERATION UNIT #1
208 VOLTS AC
35 KW

COGENERATION UNIT
LOCATED IN CELLAR
STORAGE ROOM

NEW COGENERATION UNIT #2
208 VOLTS AC
35 KW

COGENERATION UNIT
LOCATED IN CELLAR
STORAGE ROOM

NEW 75 KVA
TRANSFORMER
208 DELTA PRIMARY
208 WYE SECONDARY

NEW 208V 3 ϕ 200A ATS
MODEL ASCO 300 OR
APPROVED EQUAL

NEW 200 AMP SBDP

NEW 400AR/250AF
FUSED DISCONNECT (89L)

COGEN DISCONNECT (DC-1),
400 AMP WITH 250 AMP
FUSES, 208 VOLT IN
EXISTING ELECTRICAL ROOM,
VISIBLE BREAK, GANG
OPERATED, LOCKABLE AT
ARMS HEIGHT

COGEN DISCONNECT (DC-3),
200 AMP WITH 200 AMP
FUSES, 208 VOLT IN
EXISTING ELECTRICAL ROOM,
VISIBLE BREAK, GANG
OPERATED, LOCKABLE AT
ARMS HEIGHT

NEW 200AR/200AF
FUSED DISCONNECT

EXISTING 120/208 VOLT
600 AMP RATED
ODP PANEL

EXISTING LOADS

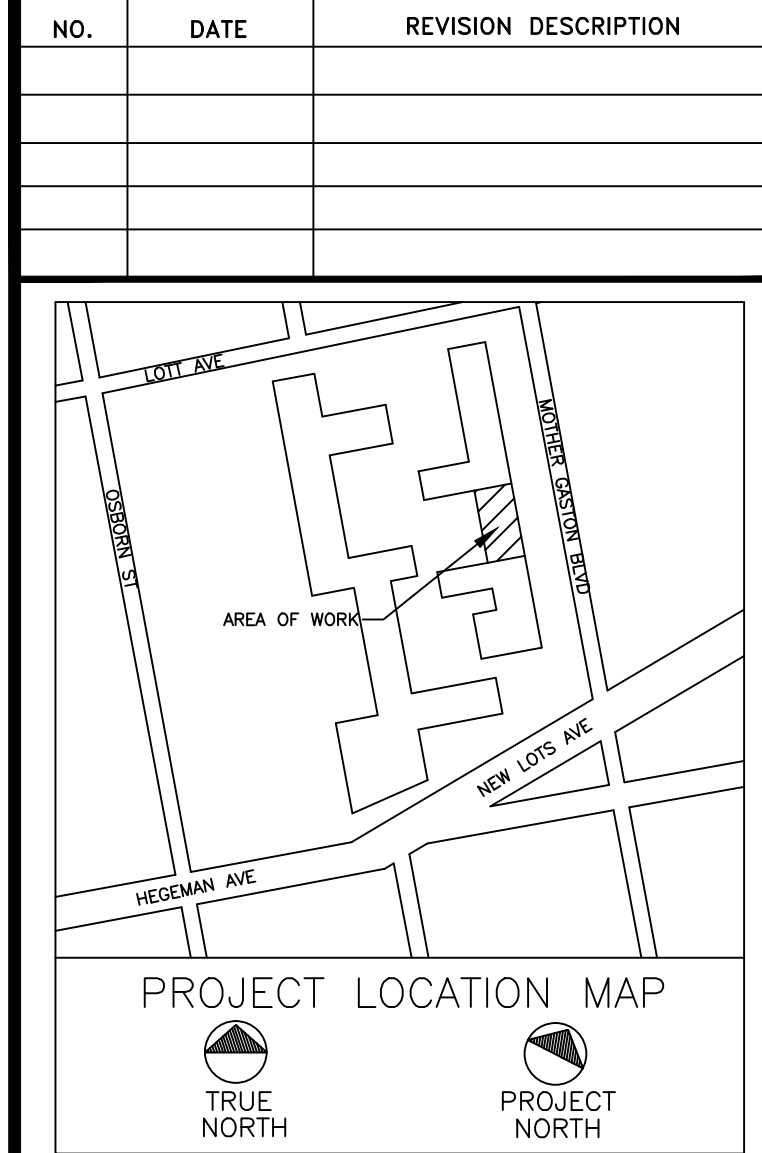
NEW POWER
TRANSDUCER PANEL
VERIS ENERCEPT H8043-0800-4

(3) VT'S
(3) CT'S 800:5A

HOUSE ELECTRIC METER
(CON EDISON)
METER 6498584
800 AMP CT'S

UTILITY SERVICE
VOLTAGE:
208 VOLT 3 PHASE
4 WIRE

- SYMBOL LEGEND**
- 27 PHASE UNDERVOLTAGE
 - 27DC CONTROL POWER UNDERVOLTAGE
 - 59 PHASE OVERVOLTAGE
 - 810/U OVER/UNDER FREQUENCY
 - 89L COGEN DISCONNECT
- PROTECTIVE RELAY SETPOINTS**
- 27 (-50 TO -88%) 2 SEC (120 CYCLE) DELAY
 - 27 (-50%) 0.16 SEC (9 CYCLE) DELAY
 - 59 (+110 TO 120%) 1 SEC (60 CYCLE) DELAY
 - 59 (+120%) 0.16 SEC (9 CYCLE) DELAY
 - 81U (<59.3 Hz) 0.16 SEC (9 CYCLE) DELAY
 - 810 (>60.5 Hz) 0.16 SEC (9 CYCLE) DELAY
 - 32R (+0.0 PU) 10 SEC (600 CYCLES)



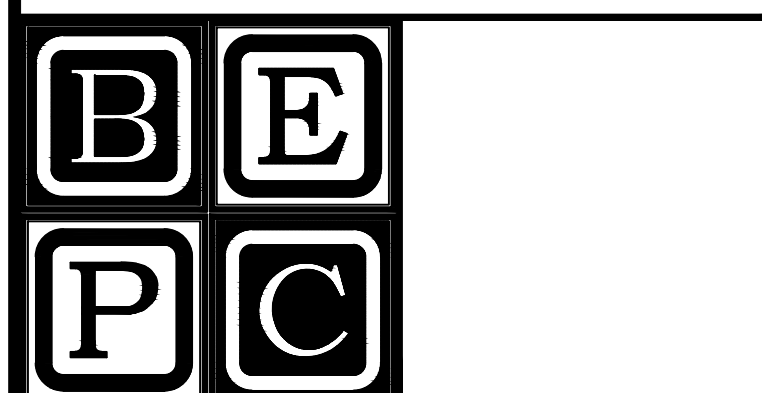
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PROJECT
**PLAZA RESIDENCES
COGENERATION PROJECT
37 NEW LOTS AVE
BROOKLYN, NY 11212**

DRAWING TITLE:
**COGENERATION
ELECTRICAL ONE LINE
DIAGRAM**

DESIGN BY:	KM	DATE:	10/20/16
DRN BY:	KM	DATE:	10/20/16
CKD BY:	.	DATE:	.
FINAL CKD BY:	.	DATE:	.
SCALE:	AS NOTED	DATE:	.
DWG No.	PAGE 9 OF 9		

E-201.00

PROJECT NO.
60-336

B-SCAN: