

BEFORE FABRICATION THIS CONTRACTOR SHALL
VERIFY ALL MEASUREMENTS AND CONDITIONS ON
JOB AND COORDINATE HIS WORK WITH THE WORK
OF ALL OTHER CONTRACTORS

FIRST FLOOR PART PLAN
(REMOVALS & REINSTALLTIONS)



REMOVAL NOTES:

- IN THIS AREA OF WORK, EXISTING 2'x4' LED LIGHT FIXTURES ARE TO BE REMOVED. COIL UP AND SECURE EXISTING POWER AND CONTROL WIRE WHILE NEW CEILING IS INSTALLED.
- IN THIS AREA OF WORK, EXISTING LIGHT FIXTURES, OCCUPANCY SENSORS, SMOKE DETECTORS, PA SPEAKERS SHALL BE REMOVED, BUBBLE WRAPPED FOR PROTECTION, STORED, CLEANED AND REINSTALLED BY ELECTRICAL CONTRACTOR AFTER THE NEW HVAC DUCT WORK IS INSTALLED. ANY DAMAGE TO ANY DEVICES SHALL BE REPAIRED OR REPLACED BY THIS CONTRACTOR. ALL ASSOCIATED ALL WALL MOUNTED DEVICES LOCATED WITHIN 1'-0" OF THE CEILING SUCH AS AMBER ALERT, SCHOOL BELL, EMERGENCY BATTERY PACK LIGHTS, ETC. SHALL BE REMOVED AND REINSTALLED AFTER NEW HVAC DUCT WORK IS INSTALLED. EXTEND EXISTING WIRING/BRANCH CIRCUITRY AND PROVIDE ALL REQUIRED AND NECESSARY JUNCTION BOXES.
- EXISTING CEILING MOUNTED CAMERA AND WAP'S SHALL BE REMOVED, BUBBLE WRAPPED AND HANDED OVER TO OWNER TO STORE AND REINSTALL AFTER NEW CEILING IS INSTALLED.
- EXISTING BRANCH CIRCUIT (CONDUIT AND WIRE), THERMAL SWITCHES, DISCONNECT SWITCHES SHALL BE REMOVED IN ITS ENTIRETY BACK TO SOURCE.
- EXISTING METER AND PANELBOARD SHALL BE RELOCATED TO ACCOMODATE NEW DISC SWITCHES. PANELBOARD SHALL BE MOVED 5FT AWAY AND ASSOCIATED CONDUITS AND BRANCH WIRING SHALL BE EXTENDED TO NEW LOCATION. METER SHALL BE RELOCATED ON THE ADJACENT WALL NEXT TO EXISTING FIRE ALARM PANEL.

**DISTRICT-WIDE
CAPITAL IMPROVEMENTS**

**HIGH SCHOOL &
MIDDLE SCHOOL
HVAC UPGRADES**

CHAPPAQUA CENTRAL
SCHOOL DISTRICT
66 Roaring Brook Road
Chappaqua, NY 10514



KG+D ARCHITECTS, PC
285 MAIN STREET • MOUNT KISCO, NEW YORK 10549
P: 914.666.5900 KGDARCHITECTS.COM

CONSTRUCTION DOCUMENTS

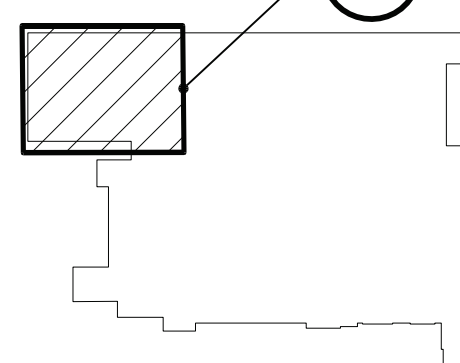
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HG: 66-10-04-06-0-015-023
BE: 66-10-04-06-0-009-025
SB: 66-10-04-06-0-036-007



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Key Plan
Robert Bell Middle School



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Professional Seal

Sheet Title
**ROBERT E. BELL
FIRST FLOOR
PART REMOVAL
PLAN**

Job No.
2023-1028

Date
10/01/2024

Scale
AS NOTED

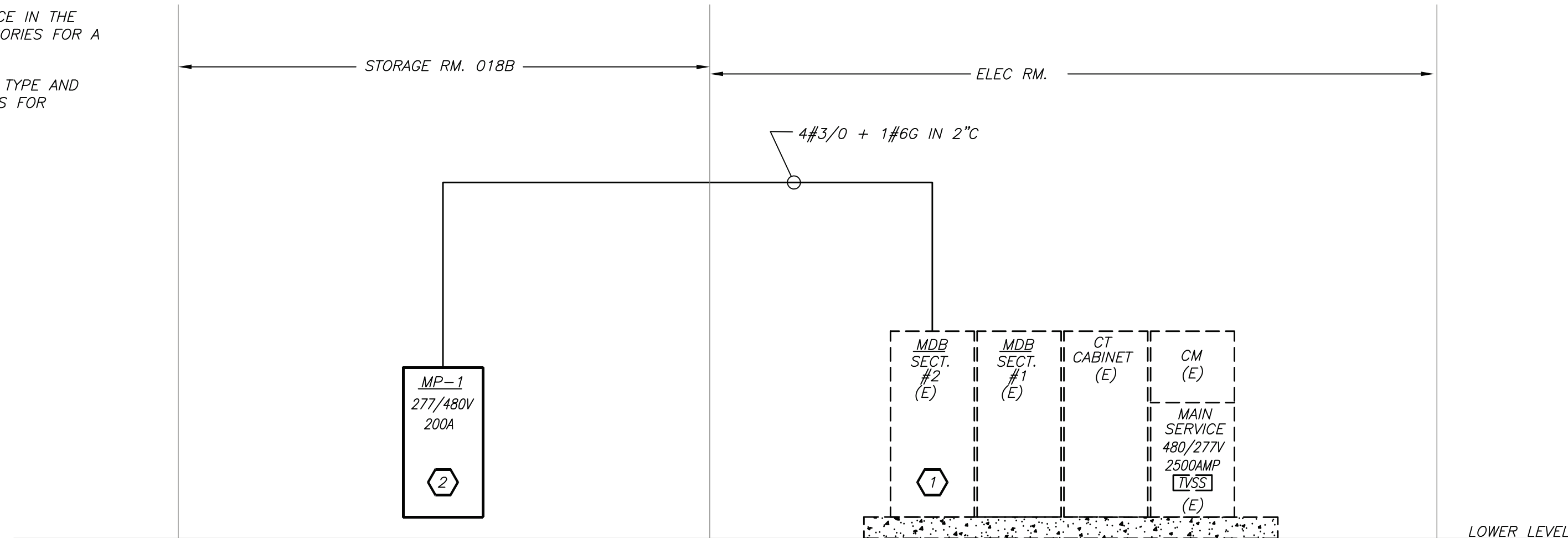
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Sheet Number

E101-BE

WORK NOTES.

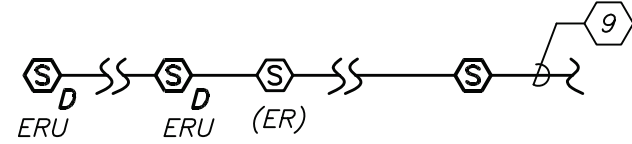
- ① PROVIDE NEW 480/277V, 200 AMP 3PH, 4W CIRCUIT BREAKER IN THE AVAILABLE SPACE IN THE MAIN SWITCHBOARD, MATCH EXISTING. PROVIDE ALL REQUIRED AND NECESSARY ACCESSORIES FOR A COMPLETE INSTALLATION.
- ② NEW 480/277V 3PH, 4W PANELBOARD. REFER TO PANEL SCHEDULE FOR PANEL SIZE, TYPE AND CIRCUIT BREAKER ARRANGEMENT. PROVIDE ALL REQUIRED AND NECESSARY ACCESSORIES FOR COMPLETE INSTALLATION.



PARTIAL POWER RISER DIAGRAM 1 N.T.S.

NEW (SB) ELECTRICAL PANEL SCHEDULE

PNL: MP-1		MOUNTING: SURFACE		X	MAIN LUGS ONLY			MAIN C BKR:		GROUND BUS: X						
480Y/277, 3 PHASE, 4 WIRE		(NEMA 1)		FLUSH	DOUBLE LUGS			200A/3P		ISOLATED GROUND BUS:						
22 .000MIN A.I.C. SYM				IN MCC	FEED THRU LUG			MAIN BUS -		TVSS:						
NEUTRAL: 100%					SHUNT TRIP MAIN			200 A		NUMBER OF POLES: 42						
CKT No.	TRIP (AMP)	LOAD	WIRE	CND.	KVA / PHASE			KVA / PHASE			CND.	WIRE	LOAD	TRIP (AMP)	CKT No.	
				(IN.)	A	B	C	A	B	C	(IN.)					
1	3	AHU-1	3#12+1#12G	3/4	2.30			2.30			3/4	2#12+1#12G	AHU-2	3	2	
3																4
5	20															20
7	3	HP-1	3#8+1#10G	3/4	11.5			11.5			3/4	3#8+1#10G	HP-2	3	8	
9																12
11	50															50
13	3	HP-3	3#12+1#12G	3/4	3.50			3.50			3/4	2#12+1#12G	HP-4	3	14	
15																16
17	20															20
19	20	SPARE	-	-							-	-	SPARE	20	20	
21	20	SPARE	-	-							-	-	SPARE	20	22	
23	20	SPARE	-	-							-	-	SPARE	20	24	
25	20	SPARE	-	-							-	-	SPARE	20	26	
27	20	SPARE	-	-							-	-	SPARE	20	28	
29	20	SPARE	-	-							-	-	SPARE	20	30	
31	20	SPARE	-	-							-	-	SPARE	20	32	
33	20	SPARE	-	-							-	-	SPARE	20	34	
35	20	SPARE	-	-							-	-	SPARE	20	36	
37	20	SPARE	-	-							-	-	SPARE	20	38	
39	20	SPARE	-	-							-	-	SPARE	20	40	
41	20	SPARE	-	-							-	-	SPARE	20	42	
SUBTOTALS					17.3	17.3	17.3	17.3	17.3	17.3	SUBTOTALS					
TOTAL LOADS					34.6	KVA PHASE A		LIGHTING:			0.00		KVA			
					34.6	KVA PHASE B		RECEPTACLE:			0.00		KVA			
					34.6	KVA PHASE C		KITCHEN:			0.00		KVA			
TOTAL CONN. LOAD					104	KVA	125	A	MOTOR:			103.80		KVA		
TOTAL DEMAND LOAD					104	KVA	125	A	POWER:			0.00		KVA		
									TOTAL:			103.80		KVA		



FIRE ALARM RISER NOTES:

- FIRE ALARM WIRING DIAGRAMS SHOWN ARE FOR GENERAL ARRANGEMENT ONLY. ELECTRICAL CONTRACTOR SHALL VERIFY AND OBTAIN POINT TO POINT WIRING DIAGRAM PRIOR TO INSTALLATION FROM MANUFACTURER.
 - PERMITS AND APPROVALS NECESSARY FOR INSTALLATION OF THE WORK SHALL BE OBTAINED PRIOR TO THE COMMENCEMENT OF THE WORK. ALL PERMIT COSTS AND INSPECTION FEES SHALL BE INCLUDED AS PART OF THIS CONTRACT.
 - IN AREAS WHERE DUST AND DIRT WILL BE AIRBORNE DURING DEMOLITION AND CONSTRUCTION THE CONTRACTOR SHALL PROVIDE PLASTIC WRAP OVER SMOKE DETECTORS AND THEN REMOVE ONCE SPACE IS CLEAN.
 - UNLESS DIRECTED OTHERWISE BY FIRE ALARM SYSTEM MANUFACTURER FIRE ALARM DEVICE WIRING SHALL BE AS FOLLOWS (FOR BIDDING PURPOSES ONLY):
SIGNAL WIRING - #14 AWG TWISTED/SHIELDED APPROVED TEFLON CABLE
THE WIRING SHALL HAVE THE FOLLOWING CHARACTERISTICS:
A. A MINIMUM TEMPERATURE RATING OF 150 C
B. A MINIMUM AVERAGE INSULATION THICKNESS OF 15 MILS
C. A MINIMUM AVERAGE JACKET THICKNESS OF 25 MILS
D. THE COLOR OF THE CABLE SHALL BE RED
E. THE CABLE SHALL BE A TYPE FPLP (PLENUM TYPE)
F. THE CABLE SHALL BE VISIBLY MARKED EXTERNALLY THAT IT MEETS THE ABOVE REQUIREMENTS AND IS LISTED BY UL.
CONFIRM WIRING TYPE AND QUANTITY WITH FIRE ALARM SYSTEM MANUFACTURER PRIOR TO PURCHASING.
 - ALL FIRE ALARM CABLE SHALL BE PLENUM RATED AND RUN IN EMT CONDUIT.
 - AFTER THE SYSTEM IS COMPLETE, TEST ALL COMPONENTS IN ACCORDANCE WITH SEQUENCE OF OPERATION PRIOR TO FIRE DEPARTMENT INSPECTION.
 - SHUTDOWN OF HVAC SYSTEM EQUIPMENT (NOT LIMITED TO, ROOF TOP EXHAUST FANS, ETC.) OF 1000 CFM OR GREATER, SHALL BE PERFORMED VIA A RELAY INTERFACE SYSTEM. SEND SIGNAL TO BUILDING AUTOMATED TEMPERATURE CONTROL (ATC) SYSTEM INDICATING SHUTDOWN HAS OCCURRED. EQUIPMENT RESTART SHALL BE BY BUILDING ATC SYSTEM UPON FIRE ALARM RESET TO NORMAL MODE. RESTART OF EQUIPMENT SHALL BE SEQUENTIAL.
 - PROVIDE DEVICE ADDRESS WITH A PERMANENT TYPE LABEL FOR ALL INITIATING DEVICES.
- ⑨ CONNECT NEW FIRE ALARM DEVICES TO NEAREST EXISTING FIRE ALARM DEVICE CIRCUIT. REFER TO SPECIFICATION FOR ADDITIONAL INFORMATION FOR REQUIRED INSTALLATION METHOD.

PART F.A. RISER DIAGRAM 2 N.T.S.

BEFORE FABRICATION THIS CONTRACTOR SHALL VERIFY ALL MEASUREMENTS AND CONDITIONS ON JOB AND COORDINATE HIS WORK WITH THE WORK OF ALL OTHER CONTRACTORS

DISTRICT-WIDE CAPITAL IMPROVEMENTS

HIGH SCHOOL & MIDDLE SCHOOL HVAC UPGRADES

CHAPPAQUA CENTRAL SCHOOL DISTRICT
66 Roaring Brook Road
Chappaqua, NY 10514

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KG+D ARCHITECTS, PC
285 MAIN STREET • MOUNT KISCO, NEW YORK 10549
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CONSTRUCTION DOCUMENTS

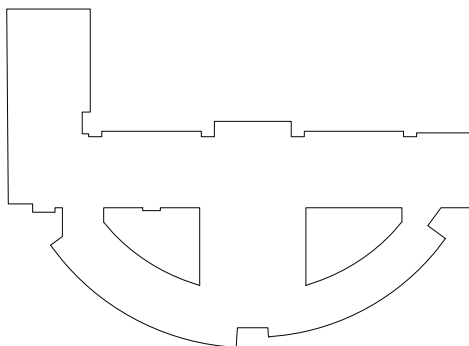
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Key Plan
Seven Bridges Middle School



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5	10/30/2024	BID ADDENDUM 1
4	10/07/2024	ISSUE FOR BID
3	10/02/2023	SED ISSUE
2	08/31/2023	ISSUE FOR PRICING - 90% CD
1	08/10/2023	SCHEMATIC DESIGN

Sheet Title

SEVEN BRIDGES RISER & SCHEDULE

Job No.

2023-1028

Date

10/01/2024

Scale

AS NOTED

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Sheet Number

E501-SB

HIGH SCHOOL & MIDDLE SCHOOL HVAC UPGRADES

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2	08/31/2023	ISSUE FOR PRICING - 90% CD
1	06/10/2023	SCHEMATIC DESIGN
No.	Date	Issue

No.	Date	Issue
Sheet Title		

Job No. 2023-1028	Sheet Number
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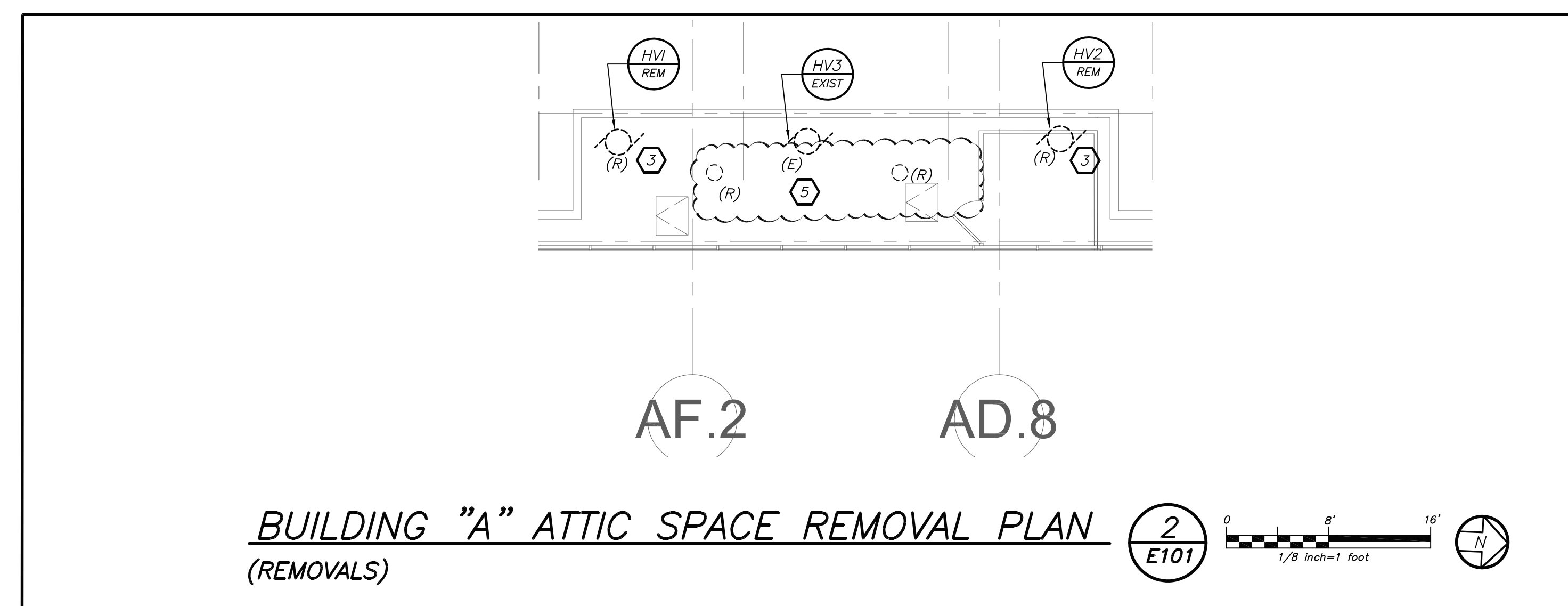
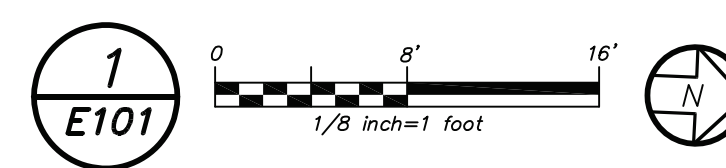
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E101-HG

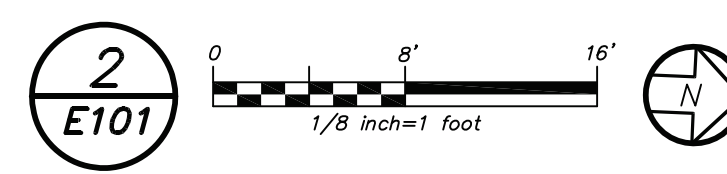
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BUILDING "A" REMOVAL PLAN (REMOVAL & REINSTALLATION)

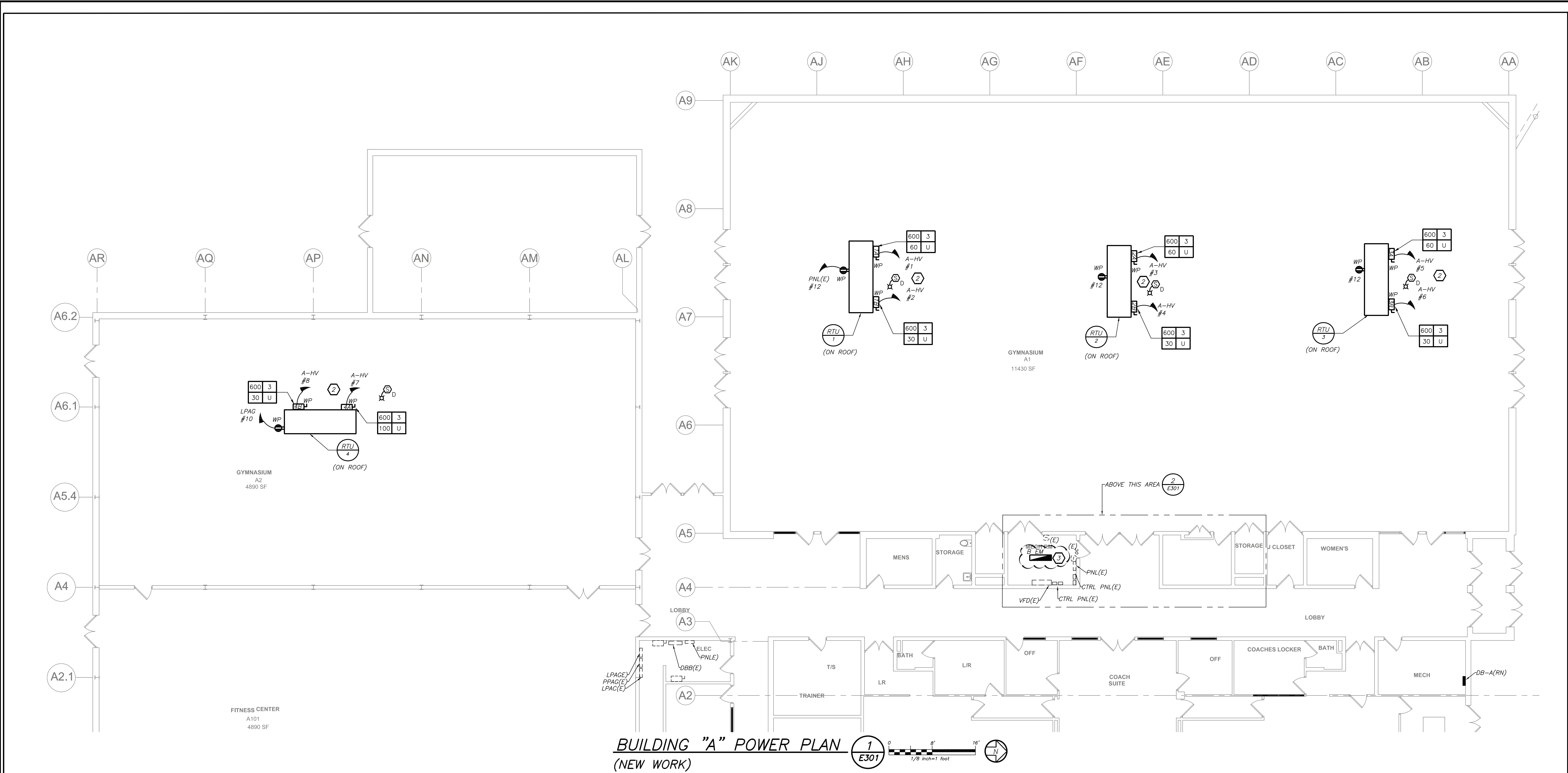


BUILDING "A" ATTIC SPACE REMOVAL PLAN
(REMOVALS)

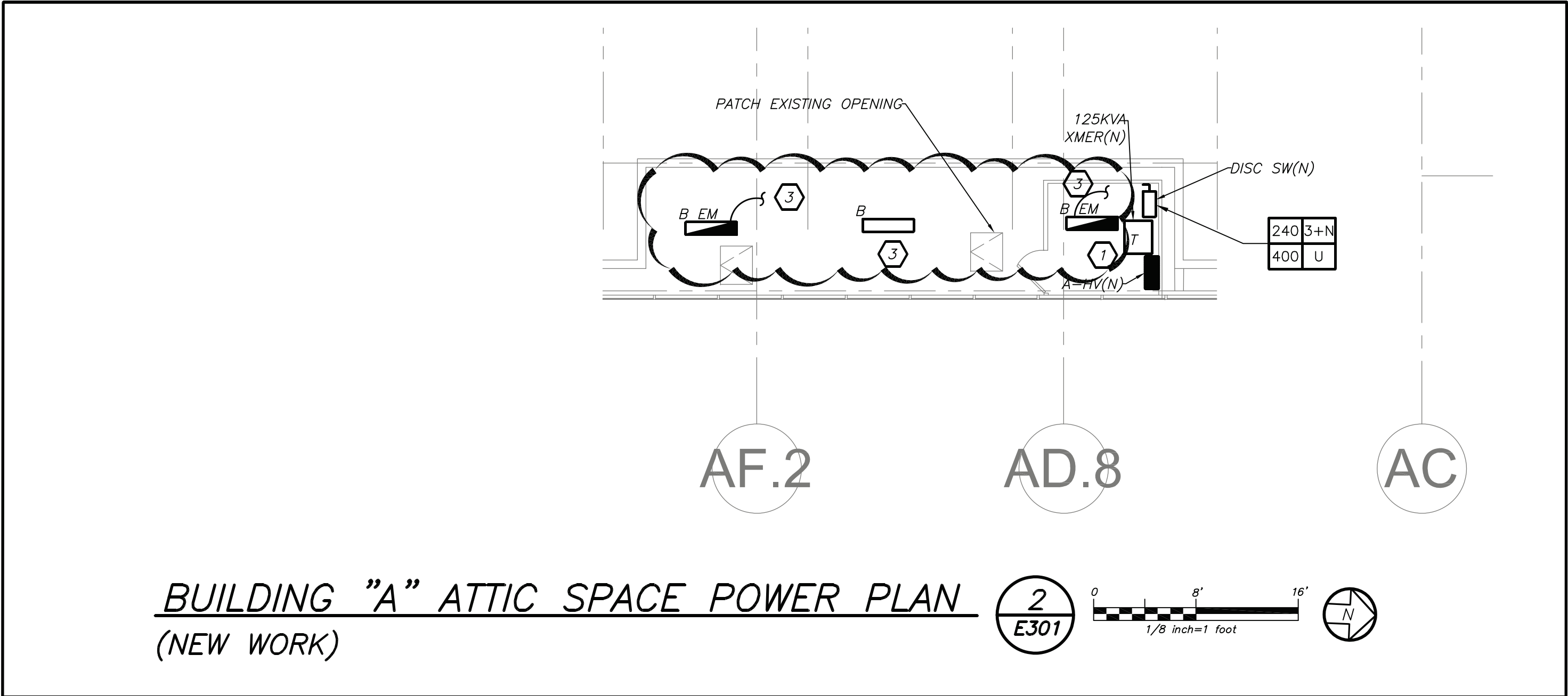


REMOVAL WORK NOTES:

1. IN THIS AREA OF WORK, EXISTING LIGHT FIXTURES, SMOKE DETECTORS, PA SPEAKERS SHALL BE REMOVED, BUBBLE WRAP FOR PROTECTION, STORED, CLEANED AND REINSTALLED BY ELECTRICAL CONTRACTOR AFTER THE NEW HVAC DUCT WORK IS INSTALLED. ANY DAMAGE TO ANY DEVICES SHALL BE REPAIRED OR REPLACED BY THIS CONTRACTOR. ALL WALL MOUNTED DEVICES LOCATED WITHIN 1' OF THE CEILING SUCH AS AMBER ALERT, SCHOOL BELL, EMERGENCY BATTERY PACK LIGHTS SHALL BE REMOVED AND REINSTALLED AFTER NEW HVAC DUCT WORK IS INSTALLED. EXTEND EXISTING WIRING, BRANCH CIRCUITRY AND PROVIDE ALL REQUIRED AND NECESSARY JUNCTION BOXES.
2. EXISTING DISCONNECT SWITCHES FOR BATTING NETS SHALL BE REMOVED, CLEANED, STORED AND REINSTALLED AFTER NEW HVAC DUCT WORK IS INSTALLED. IT WILL BE E.C. RESPONSIBILITY TO TEST BATTING GAGES BEFORE DISCONNECTING AND PROVIDE COMPLETE OPERATIONAL SYSTEM AFTER REINSTALLATION.
3. EXISTING BRANCH CIRCUIT (CONDUIT AND WIRE), THERMAL SWITCHES, DISCONNECTS SWITCHES SHALL BE REMOVED IN ITS ENTIRETY BACK TO SOURCE FOR HVAC EQUIPMENT THAT ARE BEING DEMOLISHED.
4. EXISTING DISCONNECTS, THERMAL SWITCHES FOR BASKETBALL WENCH SHALL BE REMOVED, CLEANED, STORED AND REINSTALLED AFTER NEW HVAC DUCT WORK IS INSTALLED. COIL UP AND SECURE ALL EXISTING BRANCH WIRING DURING DEMO AND NEW HVAC WORK INSTALLATION.
5. EXISTING LIGHTS IN MECHANICAL ROOM AND ATTIC SPACE ABOVE SHALL BE REMOVED. EXISTING BRANCH WIRING SHALL BE COILED UP TO RE-COIL ROOM NEW LIGHTS. LIGHTING CONTROL SWITCHES SHALL BE REUSED TO CONTROL NEW FIXTURES.



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JOB AND COORDINATE HIS WORK WITH THE WORK
OF ALL OTHER CONTRACTORS



- WORK NOTES:**
- 1 EC SHALL MAINTAIN EXISTING POWER AND DATA CONDUITS, EXPOSED DATA WIRING, PULLBOXES ETC AT THE TIME EQUIPMENT INSTALLATIONS.
 - 2 HVAC BRANCH FEEDERS ROUTED ON THE ROOF SHALL FOLLOW THE PATH OF PIPE PORTALS PROVIDED BY HVAC CONTRACTOR.
 - 3 PROVIDE NEW LIGHT FIXTURE IN THE MECHANICAL ROOM AND ATTIC SPACE ABOVE. EXTEND EXISTING BRANCH CIRCUIT AVAILABLE AFTER DEMO WORK. REUSE ALL EXISTING CONTROL SWITCHES AND EXTEND CONTROL WIRING AS REQUIRED. LOCATION OF THE LIGHTING FIXTURE SHALL BE COORDINATED WITH NEW DUCT WORK BEFORE START OF ANY WORK. FOR LIGHTING SCHEDULE REFER TO DRAWING ES01-BE

DISTRICT-WIDE
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HIGH SCHOOL &
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HVAC UPGRADES

CHAPPAQUA CENTRAL
SCHOOL DISTRICT
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Chappaqua, NY 10514

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Key Plan
Horace Greeley High School

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5	10/30/2024	BID ADDENDUM 1
4	10/07/2024	ISSUE FOR BID
3	10/02/2023	SED ISSUE
2	08/31/2023	ISSUE FOR PRICING - 90% CD
1	08/10/2023	SCHEMATIC DESIGN
No.	Date	Issue

Sheet Title

HORACE GREELEY
BUILDING "A"
POWER PLAN

Job No.
2023-1028

Date
10/01/2024

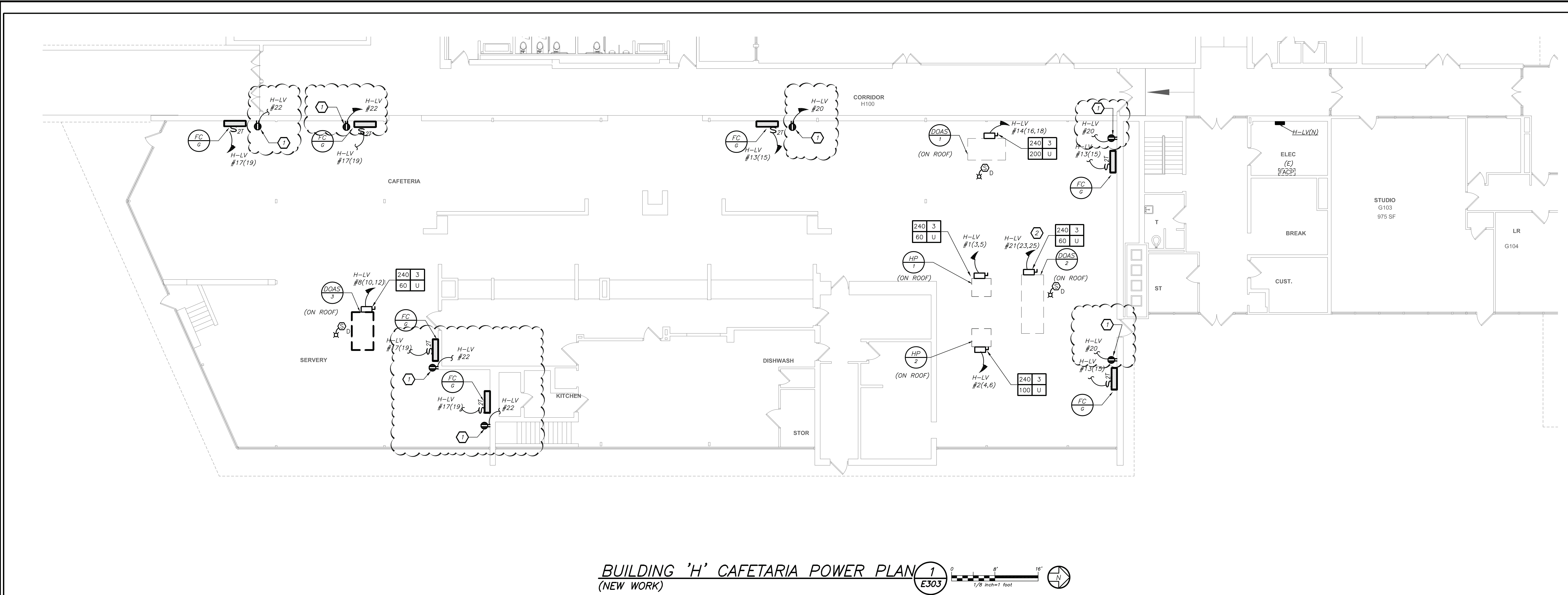
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Sheet Number

E301-HG

DBE: TAB: Layout1 - Y:\CHAPPAQUA CSD\Chappaqua CSD - DW Capital Projects (2332.00)\Drawings\Electrical\HGHS\233200E301.dwg - DATE: Oct 30, 2024 - 1:43pm



WORK NOTES

1 PROVIDE GFI RECEPTACLES FOR NEW CONDENSATE PUMPS. COORDINATE EXACT LOCATION AND MOUNTING HEIGHT WITH MECHANICAL CONTRACTOR BEFORE THE START OF ANY WORK.

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DISTRICT-WIDE
CAPITAL IMPROVEMENTS

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CONSTRUCTION DOCUMENTS

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HG: 66-10-04-06-0-015-023
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Key Plan
Horace Greeley High School

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2	08/31/2023	ISSUE FOR PRICING - 80% CD
1	08/10/2023	SCHEMATIC DESIGN
No.	Date	Issue

Sheet Title

HORACE GREELEY
BUILDING "H"
POWER PLAN

Job No.
2023-1028

Date
10/01/2024

Scale
AS NOTED

Drawn / Checked
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Sheet Number

E303-HG

WORK NOTES:

- ELECTRICAL CONTRACTOR TO PROVIDE NEW TAP TO THE EXISTING BUS AND PROVIDE LUGS TO MATCH THE EXISTING DISTRIBUTION BOARD. CONTRACTOR SHALL HIRE AS PART OF THIS CONTRACT AN UL FIELD ENGINEERING SERVICES MEMBER TO RE- CERTIFY THE NEW BUS TAP, THE EXISTING COPPER BUS IN THE EXISTING DISTRIBUTION BOARD TO AVOID ANY VIOLATION OF UL LISTING AND MEET ALL UL LISTING REQUIREMENTS.
- PROVIDE NEW 500KVA PAD MOUNTED STEP UP TRANSFORMER (T1), 115 DEG RISE, 208V DELTA PRIMARY TO 480/277V WYE SECONDARY . MAINTAIN ALL CLEARANCES AND PROVIDE ALL REQUIRED AND NECESSARY ACCESSORIES. REFER TO SPECIFICATIONS FOR ADDITIONAL TRANSFORMER CRITERIA.
- PROVIDE 3 SETS OF 4# 500KCMIL + 1#250G IN 4" FROM THE MAIN ELECTRICAL ROOM LOCATED IN BUILDING "H" TO ATTIC MECHANICAL ROOM LOCATED IN BUILDING "A" . PROVIDE RIGID GALVANIZED STEEL (RGS) CONDUIT UP TO 5' AWAY AND THEN TRANSITION TO SCHEDULE 40 CONDUIT, 5'-0" BEFORE ENTERING THE BUILDING CONDUIT SHALL TRANSITION BACK TO RGS. CONDUIT SHALL BE PLACED UNDERGROUND WITH SAND BEDDING, BURIED A MINIMUM 24" BELOW GRADE. PROVIDE CLEAN FILL FREE OF STONES LARGER THAN 1". ROOTS, DEBRIS, ETC. CONCRETE ENCASED ACROSS PATHWAYS, PARKING LOTS AND ROADWAYS. PROVIDE ALL REQUIRED AND NECESSARY ACCESSORIES FOR PROPER CONNECTION (EX. COMPRESSION FITTINGS, BUSHINGS, ETC). BEFORE THE START OF ANY WORK THIS CONTRACTOR SHALL BE RESPONSIBLE TO HAVE ALL EXISTING UTILITIES MARKING PERFORMED IN THE AREA OF ALL WORK BEING PERFORMED BY THIS CONTRACT. THIS INCLUDES AND NOT LIMITED TO ELECTRICAL, WATER, SEWER, STORM, ETC. REFER TO SITE UTILITY PLAN E306-HG FOR EXACT CONDUIT ROUTING AND ADDITIONAL SCOPE NOTES.
- PROVIDE NEW 277/480V, 3 PHASE, 4 WIRE PANELBOARD. FOR PANEL SIZE, TYPE AND CIRCUIT BREAKER ARRANGEMENT REFER TO PANEL SCHEDULE FOR ADDITIONAL INFORMATION. PROVIDE ALL REQUIRED PROVISIONS AND NECESSARY ACCESSORIES FOR A COMPLETE INSTALLATION.
- PROVIDE NEW PAD MOUNTED STEP DOWN TRANSFORMER (T2) , 115 DEG RISE, 480V DELTA PRIMARY TO 120/208V WYE SECONDARY . MAINTAIN ALL CLEARANCES AND PROVIDE ALL REQUIRED AND NECESSARY ACCESSORIES. REFER TO SPECIFICATIONS FOR ADDITIONAL TRANSFORMER CRITERIA.
- PROVIDE NEW 120/208V 3 PHASE, 4 WIRE PANELBOARD. FOR PANEL SIZE, TYPE AND CIRCUIT BREAKER ARRANGEMENT REFER TO PANEL SCHEDULE FOR ADDITIONAL INFORMATION. PROVIDE ALL REQUIRED PROVISIONS AND NECESSARY ACCESSORIES FOR A COMPLETE INSTALLATION.
- ELECTRICAL CONTRACTOR TO USE AVAILABLE 400-AMP CIRCUIT BREAKER TO PROVIDE POWER TO THE NEW PANELBOARD "H-LV". MATCH EXISTING.
- PROVIDE (2) NEW 400-AMP 3P, 4W FUSED SWITCH IN THE AVAILABLE SPACE. PROVIDE ALL PROVISIONS AS REQUIRED FOR COMPLETE INSTALLATION, MATCH EXISTING.
- REPLACE EXISTING PANELBOARD WITH NEW. ELECTRICAL CONTRACTOR SHALL DISCONNECT ALL EXISTING CIRCUITS, REMOVE EXISTING INTERNAL COMPONENTS, EXISTING BACKBOX AND PROVIDE NEW INTERNAL COMPONENTS. PROVIDE CUSTOM INTERNAL COMPONENTS AND NEW CUSTOM 'DOOR-IN-DOOR' TRIM COVER. ANY DAMAGE CAUSED TO SURROUNDING WALL FINISHES SHALL BE REPAIRED, PAINTED, ETC. TO MATCH EXISTING. CONTRACTOR SHALL MATCH EXISTING CIRCUIT BREAKERS ARRANGEMENT.

FEEDER SCHEDULE:

- A 5 SETS OF 4# 400KCMIL + 1#4/0G IN 3" C
B 5 SETS OF 3# 400KCMIL IN 3" C
C 2 SETS OF 4# 500KCMIL + 1#1/0G IN 3-1/2" C
D 3 SETS OF 4# 500KCMIL + 1#250G IN 4" C
E 4# 500KCMIL + 1#3G IN 3-1/2" C
F 3# 3/0 + 1#6 IN 2" C
G 4# 2 + 1#6G IN 1-1/4" C
H 2 SETS OF 4#350KCMIL + 1#1G IN 3" C
K 4# 3/0 + 1#6G IN 2" C
L 3# 2/0 + 1#6G IN 2" C
M 4# 500KCMIL + 1#3G IN 3-1/2" RGS ON ROOF



HORACE GREELEY HIGH SCHOOL PARTIAL POWER RISER DIAGRAM

1
E501

BEFORE FABRICATION THIS CONTRACTOR SHALL VERIFY ALL MEASUREMENTS AND CONDITIONS ON JOB AND COORDINATE HIS WORK WITH THE WORK OF ALL OTHER CONTRACTORS

DISTRICT-WIDE
CAPITAL IMPROVEMENTS

HIGH SCHOOL &
MIDDLE SCHOOL
HVAC UPGRADES

CHAPPAQUA CENTRAL
SCHOOL DISTRICT
66 Roaring Brook Road
Chappaqua, NY 10514

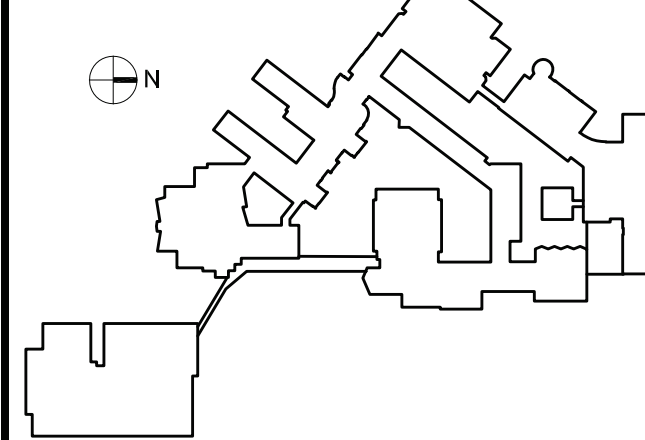
KG+D listen
imagine
build
KG+D ARCHITECTS, PC
285 MAIN STREET • MOUNT KISCO, NEW YORK 10549
P: 914.866.8500 KGDARCHITECTS.COM

CONSTRUCTION DOCUMENTS

SED Control No.
HG: 66-10-04-06-0-015-023
BE: 66-10-04-06-0-009-025
SB: 66-10-04-06-0-036-007

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914.328.6060 GENERAL@BGA-ENG.COM WWW.BGA-ENG.COM

Key Plan
Horace Greeley High School



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5	10/30/2024	BID ADDENDUM 1
4	10/07/2024	ISSUE FOR BID
3	10/02/2023	SED ISSUE
2	08/31/2023	ISSUE FOR PRICING - 80% CD
1	06/10/2023	SCHEMATIC DESIGN
No.	Date	Issue

Sheet Title
**HORACE
GREELEY
POWER RISER**

Job No. 2023-1028	Sheet Number
Date 10/01/2024	
Scale AS NOTED	E501-HG
Drawn / Checked BGA/BGA	

PANEL DESIGNATION: <u>A-HV (NEW)</u>				MOUNTING: <u>SURFACE</u>			
SUPPLY CHARACTERISTIC: <u>277/480</u> VOLTS, <u>3</u> PHASE, <u>4</u> WIRES							
MAIN BUS RATING: <u>800</u> AMPS NEUTRAL: <u>FULL SIZE</u> SCR: 65,000							
				USAGE: <u>DISTRIBUTION</u>			
CKT NO.	FUSED SWITCH			EQUIPMENT	WIRE	COND.	LOAD
	FRAME SIZE	POLES "N" - NEUT. BAR CONNECTION	SWITCH SIZE				
1	100	3	50	RTU-1A	3#8+1#10G	3/4	SEE PNL
2	100	3	15	RTU-1B	3#12+1#12G	3/4	SEE PNL
3	100	3	50	RTU-2A	3#8+1#10G	3/4	SEE PNL
4	100	3	15	RTU-2B	3#12+1#12G	3/4	SEE PNL
5	100	3	50	RTU-3A	3#8+1#10G	3/4	SEE PNL
6	100	3	15	RTU-3B	3#12+1#12G	3/4	SEE PNL
7	100	3	80	RTU-4A	3#4+1#8G	1-1/2"	SEE PNL
8	100	3	15	RTU-4B	3#12+1#12G	3/4	SEE PNL
9	400	3+N	400	125KVA XMER	4#500+1#3	3-1/2"	-
10	100	-	100	SPARE	-	-	-
11	100	-	100	SPARE	-	-	-

NEW ELECTRICAL PANEL SCHEDULE																		
PNL: MP-1			MOUNTING: SURFACE		X	MAIN LUGS ONLY			MAIN C BKR-		GROUND BUS:		X					
208Y/120, 3 PHASE, 4 WIRE			(NEMA 1)		FLUSH	DOUBLE LUGS			400A/3P		ISOLATED GROUND BUS:							
42 .000MIN A.I.C. SYM					IN MCC	FEED THRU LUG			MAIN BUS -		TVSS:							
NEUTRAL: 100%						SHUNT TRIP MAIN			400 A		NUMBER OF POLES:		30					
CKT No.	TRIP (AMP)	LOAD	WIRE	CND. (IN.)	KVA / PHASE	A	B	C	KVA / PHASE	A	B	C	(IN.)	WIRE	LOAD	TRIP (AMP)	CKT No.	
1	2	FC-A	2#12+1#12G	3/4	0.20				0.20					3/4	2#12+1#12G	FC-A	2	2
3	20					0.20				0.20				3/4	2#12+1#12G		20	4
5	2	FC-A	2#12+1#12G	3/4			0.20				0.20			3/4	2#12+1#12G	FC-A	2	6
7	20					0.20					0.20			3/4	2#12+1#12G		20	8
9	2	FC-A	2#12+1#12G	3/4			0.20					0.20		3/4	2#12+1#12G	FC-A	2	10
11	20							0.20					0.20	3/4	2#12+1#12G		20	12
13	2	FC-A	2#12+1#12G	3/4		0.20				0.20				3/4	2#12+1#12G	FC-A	2	14
15	20						0.20				0.20			3/4	2#12+1#12G		20	16
17	2	FC-A	2#12+1#12G	3/4				0.20				0.20		3/4	2#12+1#12G	FC-A	2	18
19	20									17.3				3/4	2#12+1#12G		20	20
21	3	-	-	-	20.0					17.3				-	SEE RISER	DOAS-5	3	22
23	DOAS-4	SEE RISER	-	-										-			175	24
25	200	-	-	-	20.0									-		SPARE	20	26
27	20	SPARE	-	-										-		SPARE	20	28
29	20	SPARE	-	-										-		SPARE	20	30
SUBTOTALS					20.8	20.6	20.6		17.9	17.9	17.7			SUBTOTALS				
TOTAL LOADS					38.7 KVA	PHASE A			LIGHTING:			0.00 KVA						
					38.5 KVA	PHASE B			RECEPTACLE:			0.00 KVA						
					38.3 KVA	PHASE C			KITCHEN:			0.00 KVA						
TOTAL CONN. LOAD					116 KVA	321	A		MOTOR:			115.50 KVA						
TOTAL DEMAND LOAD					116 KVA	321	A		POWER:			0.00 KVA						
									TOTAL:			115.50 KVA						

NEW ELECTRICAL PANEL SCHEDULE													
PNL: DBA		MOUNTING: SURFACE <input checked="" type="checkbox"/>		MAIN LUGS ONLY		MAIN C BKR-		GROUND BUS: <input checked="" type="checkbox"/>					
120/208V, 3 PHASE, 4 WIRE		(NEMA 1) FLUSH		DOUBLE LUGS		400A/3P		ISOLATED GROUND BUS:					
14 .000MIN A.I.C. SYM		IN MCC		FEED THRU LUG <input checked="" type="checkbox"/>		MAIN BUS-		TVSS:					
NEUTRAL: 100%				SHUNT TRIP MAIN		400 A		NUMBER OF POLES: 30					
CKT	TRIP	LOAD	WIRE	CND.	KVA / PHASE	KVA / PHASE	CND.	WIRE	LOAD	TRIP	CKT		
No.	(AMP)			(IN.)	A B C	A B C	(IN.)			(AMP)	No.		
1	3	EXISTING LOAD	EXIST					EXIST	EXISTING LOAD	3	2		
3	80									4			
5	60									60	6		
7	3	EXISTING LOAD	EXIST					EXIST	EXISTING LOAD	3	8		
9	60									10			
11	60									40	12		
13	3	EXISTING LOAD	EXIST					EXIST	EXISTING LOAD	3	14		
15										16			
17	100									20	18		
19	3	EXISTING LOAD	EXIST					EXIST	EXISTING LOAD	3	20		
21										22			
23	100									100	24		
25	3	EXISTING LOAD	EXIST					EXIST	EXISTING LOAD	3	26		
27										28			
29	100									100	30		
SUBTOTALS					0.0	0.00	0.0	0.0	SUBTOTALS				
TOTAL LOADS					0.0	KVA PHASE A			LIGHTING: 0.00 KVA				
					0.0	KVA PHASE B			RECEPTACLE: 0.00 KVA				
					0.0	KVA PHASE C			KITCHEN: 0.00 KVA				
TOTAL CONN. LOAD					0.0	KVA 0.0 A			MOTOR: 0.00 KVA				

NEW ELECTRICAL PANEL SCHEDULE																
PNL: MP-2			MOUNTING: SURFACE <input checked="" type="checkbox"/>			MAIN LUGS ONLY			MAIN C BKR-		GROUND BUS: <input checked="" type="checkbox"/>					
208Y/120, 3 PHASE, 4 WIRE			(NEMA 1) FLUSH			DOUBLE LUGS			400A/3P		ISOLATED GROUND BUS:					
22 .000MIN A.I.C. SYM			IN MCC			FEED THRU LUG			MAIN BUS -		TVSS:					
NEUTRAL: 100%						SHUNT TRIP MAIN			400A		NUMBER OF POLES: <u>54</u>					
CKT No.	TRIP (AMP)	LOAD	WIRE	CND.	KVA / PHASE			KVA / PHASE			CND.	WIRE	LOAD	TRIP (AMP)	CKT No.	
					(IN.)	A	B	C	A	B	C	(IN.)				
1	2	FC-A	2#12+1#12G	3/4	0.20				0.20			3/4	2#12+1#12G	FC-A	2	2
3	20					0.20				0.20		3/4	2#12+1#12G		20	4
5	2	FC-A	2#12+1#12G	3/4	0.20			0.20			0.20	3/4	2#12+1#12G	FC-A	2	6
7	20					0.20				0.20		3/4	2#12+1#12G		20	8
9	2	FC-A	2#12+1#12G	3/4			0.20			0.20		3/4	2#12+1#12G	FC-A	2	10
11	20						0.20				0.20	3/4	2#12+1#12G		20	12
13	2	FC-A	2#12+1#12G	3/4	0.20				0.20			3/4	2#12+1#12G	FC-A	2	14
15	20					0.20				0.20		3/4	2#12+1#12G		20	16
17	2	FC-A	2#12+1#12G	3/4				0.20				-	-	SPARE	20	18
19	20					0.20						-	-	SPARE	20	20
21	3						6.90					-	-	SPARE	20	22
23	HP-3	3#4+1#8G	11/4					6.90			3.40	11/4	3#8+1#10G	HP-4	3	24
25	80							6.90			3.40				40	26
27	3							6.80			3.40				40	28
29	HP-6	3#4+1#8G	11/4					6.80			6.10	11/4	3#4+1#8G	HP-5	3	30
31	80							6.80			6.10				70	32
33	20	SPARE	-	-						6.10					70	34
35	20	SPARE	-	-								-	-	SPARE	20	36
37	3						6.80					-	-	SPARE	20	38
39	HP-7	3#4+1#8G	11/4					6.80				-	-	SPARE	20	40
41	80							6.80				-	-	SPARE	20	42
43	20	SPARE	-	-								-	-	SPARE	20	44
45	3							7.50				-	-	SPARE	20	46
47	HP-8	3#4+1#8G	11/4					7.50				-	-	SPARE	20	48
49	80							7.50				-	-	SPARE	20	50
51	20	SPARE	-	-								-	-	SPARE	20	52
53	20	SPARE	-	-								-	-	SPARE	20	54
SUBTOTALS						28.8	28.6	28.6	10.1			10.1	9.9	SUBTOTALS		
TOTAL LOADS						38.9 KVA	PHASE A						LIGHTING: 0.00 KVA			
						38.7 KVA	PHASE B						RECEPTACLE: 0.00 KVA			
						38.5 KVA	PHASE C						KITCHEN: 0.00 KVA			
TOTAL CONN. LOAD						116 KVA	322	A				MOTOR: 116.10 KVA				
TOTAL DEMAND LOAD						116 KVA	322	A				POWER: 0.00 KVA				
												TOTAL: 116.10 KVA				

NEW ELECTRICAL PANEL SCHEDULE																		
PNL: H-LV				MOUNTING: SURFACE <input checked="" type="checkbox"/>				MAIN LUGS ONLY				MAIN C BKR- 350A/3P		GROUND BUS: <input checked="" type="checkbox"/>				
208Y/120, 3 PHASE, 4 WIRE				(NEMA 1) FLUSH				DOUBLE LUGS				ISOLATED GROUND BUS:						
42 .000MIN A.I.C. SYM				IN MCC				FEED THRU LUG				MAIN BUS -		TVSS:				
NEUTRAL: 100%								SHUNT TRIP MAIN				400 A		NUMBER OF POLES: 42				
CKT No.	TRIP (AMP)	LOAD	WIRE	CND. (IN.)	KVA / PHASE			KVA / PHASE			CND. (IN.)	WIRE	LOAD	TRIP (AMP)	CKT No.			
					A	B	C	A	B	C								
1	3	HP-1	3#8+1#10G	3/4	4.00			6.20				11/4	3#4+1#8G	HP-2	3	2		
3						4.00			6.20							4		
5	40									6.20							70	6
7	20				SPARE	-	-										3	8
9	20	SPARE	-	-				4.50			3/4	3#8+1#10G	DOAS-3		10			
11	20	SPARE	-	-				4.50						50	12			
13	2	FC-A	2#12+1#12G	3/4	0.20			15.20				2	3#20+1#6G	DOAS-1	3	14		
15	20					0.20			15.2							16		
17	2	FC-A	2#12+1#12G	3/4			0.20					3/4	2#12+1#12G	CONDENSATE PUM	17	18		
19	20					0.20										20		
21	3	DOAS-2	3#8+1#10G	3/4			4.50				0.72	3/4	2#12+1#12G	CONDENSATE PUM	20	22		
23										4.50								24
25	50													-		SPARE	26	28
27	20				SPARE	-	-							-		SPARE	28	30
29	20	SPARE	-	-							-		SPARE	30				
SUBTOTALS						8.90	8.70	8.70	26.62	26.62	25.90	SUBTOTALS						
TOTAL LOADS						35.5 KVA	PHASE A			LIGHTING: 0.00 KVA								
						35.3 KVA	PHASE B			RECEPTACLE: 0.00 KVA								
						34.6 KVA	PHASE C			KITCHEN: 0.00 KVA								
TOTAL CONN. LOAD						105 KVA	293 A			MOTOR: 105.44 KVA								
TOTAL DEMAND LOAD						105 KVA	293 A			POWER: 0.00 KVA								
										TOTAL: 105.44 KVA								

DISTRICT-WIDE
CAPITAL IMPROVEMENTS

HIGH SCHOOL &
MIDDLE SCHOOL
HVAC UPGRADES

CHAPPAQUA CENTRAL
SCHOOL DISTRICT
66 Roaring Brook Road
Chappaqua, NY 10514

KG+D listen imagine build
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285 MAIN STREET MOUNT KISCO, NEW YORK 10549
P: 914.666.5900 KGDARCHITECTS.COM

CONSTRUCTION DOCUMENTS

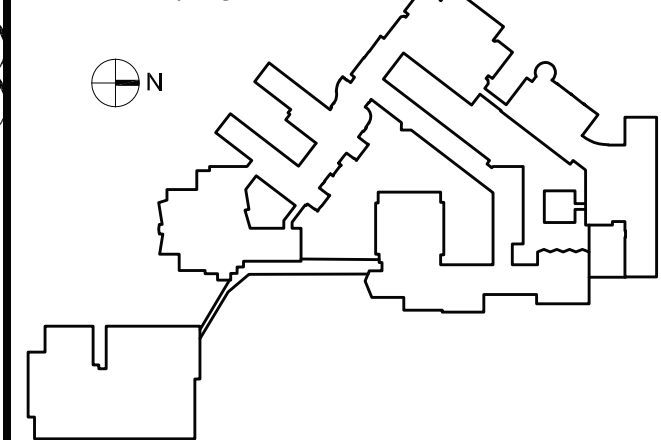
SED Control No.
HG: 66-10-04-06-0-015-023
BE: 66-10-04-06-0-009-025
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bga

BARILE GALLAGHER & ASSOCIATES

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Key Plan
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Professional Seal

5	10/30/2024	BID ADDENDUM 1
4	10/07/2024	ISSUE FOR BID
3	10/02/2023	SED ISSUE
2	08/31/2023	ISSUE FOR PRICING - 90% CD
1	08/10/2023	SCHEMATIC DESIGN
No.	Date	Issue

Sheet Title