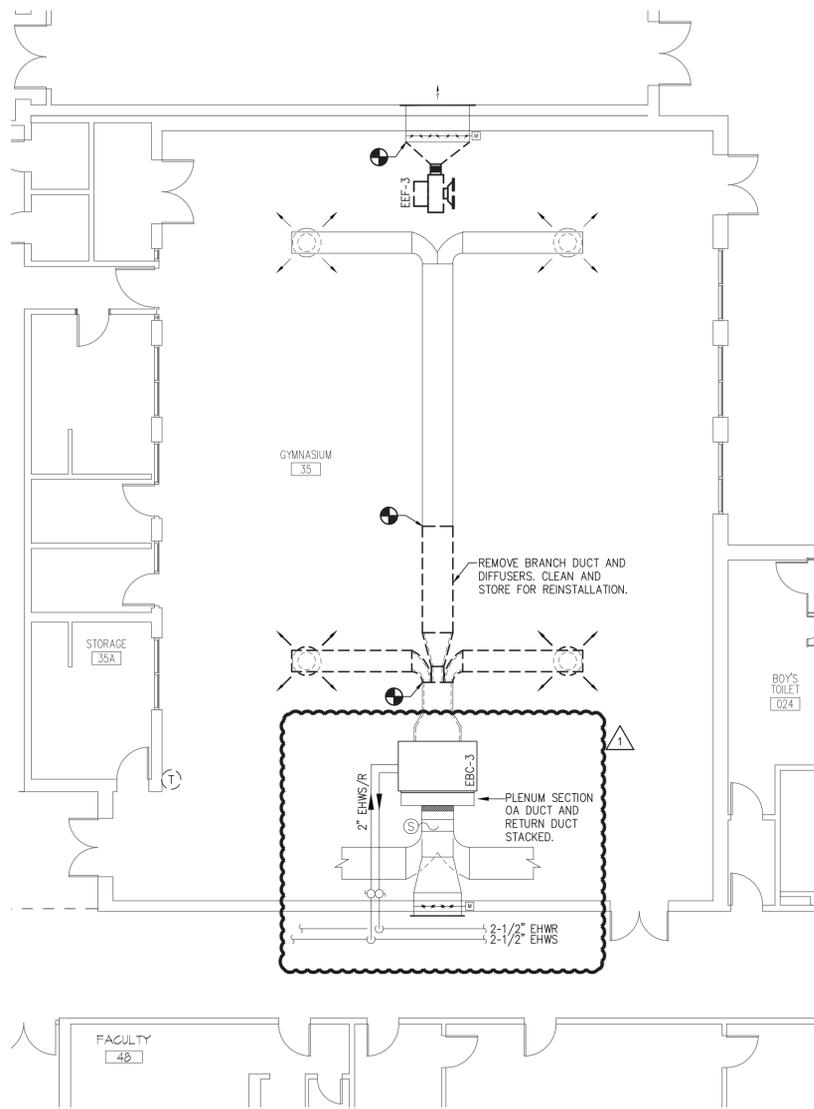
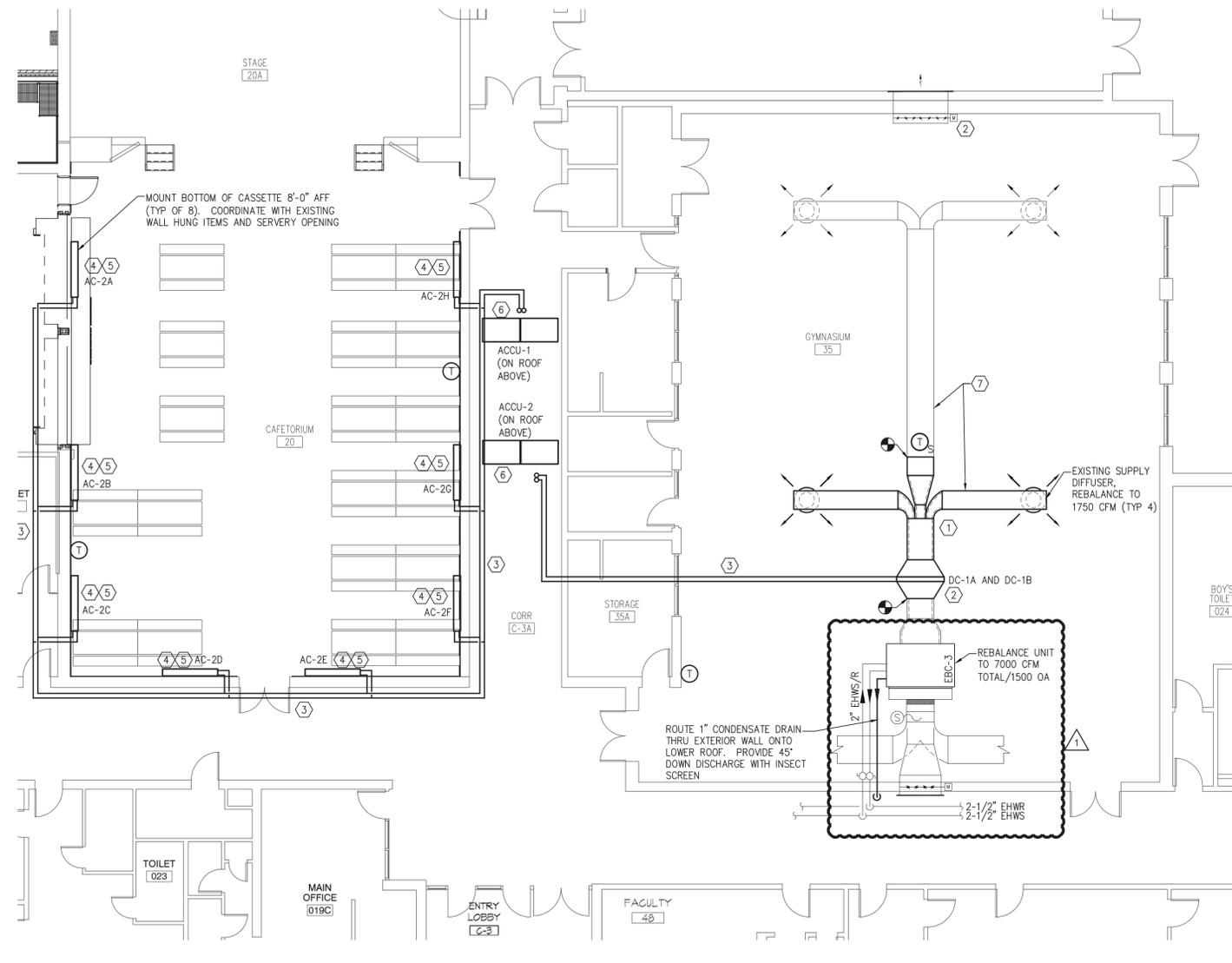


GENERAL NOTES	
1	FIELD VERIFY ALL EXISTING DUCT DIMENSIONS AND CLEARANCES. REPORT DISCREPANCIES TO THE ENGINEER.
2	THE CONTRACTOR SHALL PROTECT EXISTING SERVICES AND EQUIPMENT DURING THE WORK.

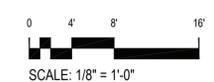
#	RENOVATION KEY NOTES
1	RELOCATE DIFFUSERS AND BRANCH DUCT ONE TRUSS BAY TO ACCOMMODATE NEW VRF DUCT COIL.
2	EXISTING MOTORIZED DAMPER TO OPEN TO 30% WHEN BLOWER COIL OA DAMPER IS OPEN.
3	REFRIGERANT LINES SIZE PER MANUFACTURERS RECOMMENDATIONS. INSTALL REFRIGERANT PIPING ABOVE ROOF WHEN CROSSING CORRIDORS. DO NOT INSTALL IN CORRIDORS OR ABOVE CORRIDOR CEILINGS.
4	ROUTE CONDENSATE TO THE ADJACENT LOWER ROOF. PROVIDE CONDENSATE PUMP WITH EACH INDOOR CASSETTE. "HIDE REF." PIPING AND CONDENSATE DRAIN IN "LINE-HIDE" WHERE EXPOSED ON CAFE WALLS.
5	MOUNT CASSETTES AT APPROXIMATELY 8 FEET AFF. ALL CASSETTES SHALL BE AT A UNIFORM HEIGHT COORDINATE LOCATIONS TO AVOID EXISTING ELECTRICAL. REFER TO DETAIL 6/BES-H501.
6	INSTALL CONDENSING UNITS ON SUPPORT STAND ATTACHED TO ROOF PER DETAIL 3/BES-H501.
7	MC TO PAINT ALL EXISTING AND NEW DUCTWORK IN GYMNASIUM. COORDIANTE WITH ARCHITECT AND A-DWGS FOR PAINT COLOR.



**1 GYM REMOVAL PLAN**  
BES-H101 SCALE: 1/8" = 1'-0"



**2 GYM & CAFE RENOVATION PLAN**  
BES-H101 SCALE: 1/8" = 1'-0"



**ARCHITECT**

**ksqdesign**

NEW YORK OKLAHOMA NORTH CAROLINA  
TEXAS COLORADO

**KSQ Design**  
215 West 40th Street | 15th Floor  
New York, NY 10018  
914.682.3700 office  
www.ksq.design

**Owner**  
**Yorktown Central School District**  
2725 Crompond Road  
Yorktown Heights, NY 10598  
914 243 8000 office

**Construction Manager**  
Ariss Contracting Co.  
189 Smith Street  
Poughkeepsie, NY 12601  
845 473 6300 office  
845 473 1453 fax

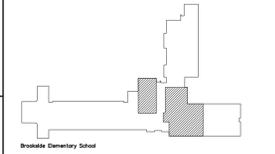
**MEP Engineer**  
DELTA Engineers, Architects, & Land  
Surveyors, DPC  
220 Harborside Dr, Suite #202  
Schenectady, NY 12305  
518.690.0046 office

**Structural Engineer**  
Clapper Structural Engineering, PLLC  
160 Partison Street  
Saugerties, New York 12477  
845.943.9601 office  
www.clapperstructural.com

**Civil Engineer**  
The Chazen Companies  
547 River Street  
Troy, New York 12180  
518.266.7323 office  
www.chazencompanies.com

**SED CONTROL NUMBERS**

YHS -	#66-24-02-06-0-005-028
MS -	#66-24-02-06-0-007-027
CES -	#66-24-02-06-0-003-022
MES -	#66-24-02-06-0-004-025
BES -	#66-24-02-06-0-002-020



**DISTRICT WIDE  
IMPROVEMENTS 2020  
PHASE II**

**BROOKSIDE ELEMENTARY  
SCHOOL  
2285 BROAD ST.  
YORKTOWN HEIGHTS, NY 10598**

**REVISIONS**

No.	Description	Date
1	ADDENDUM #2	2021.11.17

**ISSUED: BID ISSUE**

**DATE: 10/25/2021**

**SCALE: AS NOTED**

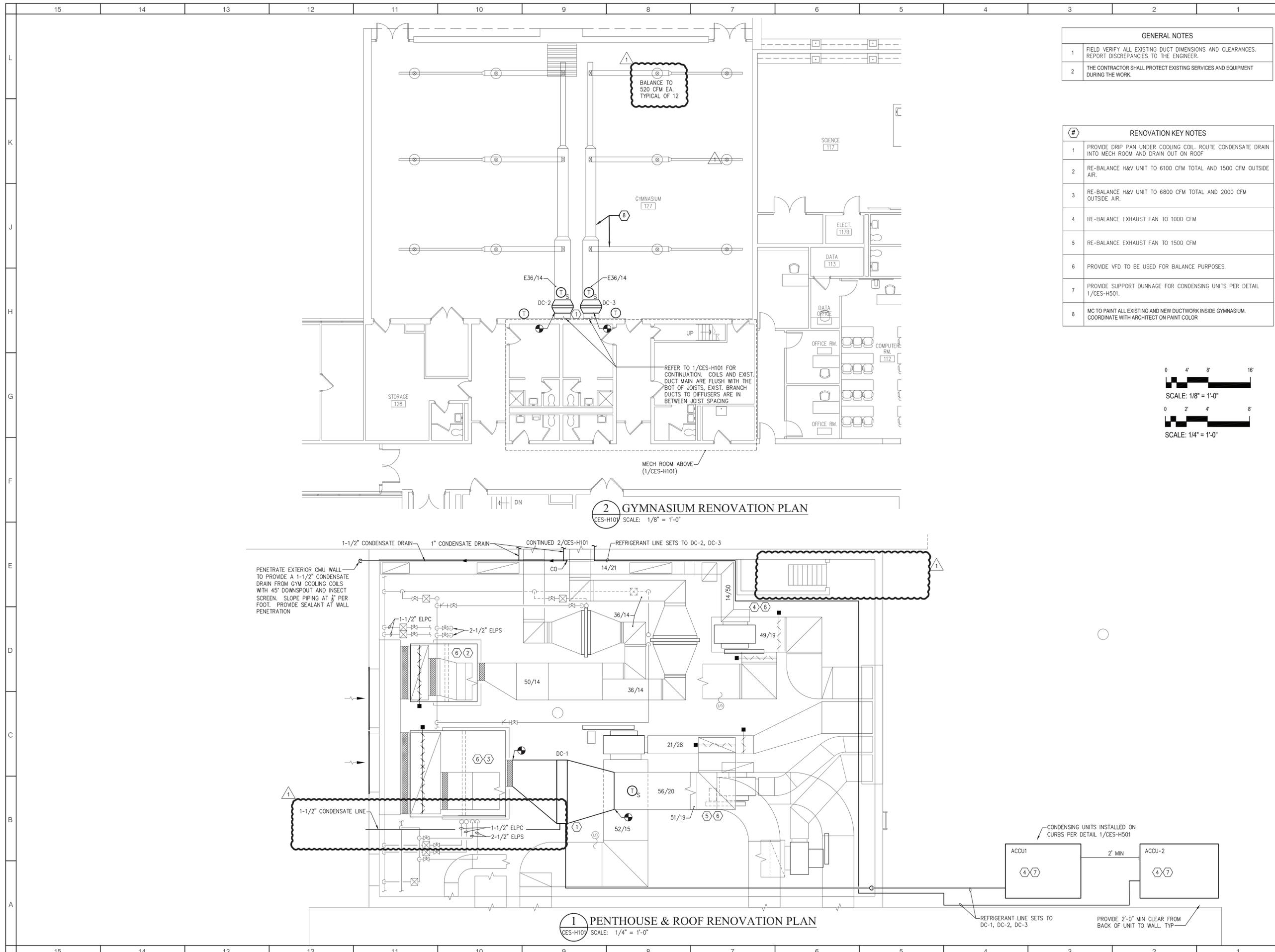
**SHEET NAME:**  
GYMNASIUM & CAFETERIA  
REMOVAL & RENOVATION  
PLANS

**SHEET NUMBER:**

**BES-H101**

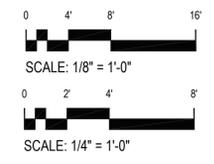






GENERAL NOTES	
1	FIELD VERIFY ALL EXISTING DUCT DIMENSIONS AND CLEARANCES. REPORT DISCREPANCIES TO THE ENGINEER.
2	THE CONTRACTOR SHALL PROTECT EXISTING SERVICES AND EQUIPMENT DURING THE WORK.

#	RENOVATION KEY NOTES
1	PROVIDE DRIP PAN UNDER COOLING COIL. ROUTE CONDENSATE DRAIN INTO MECH ROOM AND DRAIN OUT ON ROOF.
2	RE-BALANCE H&V UNIT TO 6100 CFM TOTAL AND 1500 CFM OUTSIDE AIR.
3	RE-BALANCE H&V UNIT TO 6800 CFM TOTAL AND 2000 CFM OUTSIDE AIR.
4	RE-BALANCE EXHAUST FAN TO 1000 CFM
5	RE-BALANCE EXHAUST FAN TO 1500 CFM
6	PROVIDE VFD TO BE USED FOR BALANCE PURPOSES.
7	PROVIDE SUPPORT DUNNAGE FOR CONDENSING UNITS PER DETAIL 1/CES-H501.
8	MC TO PAINT ALL EXISTING AND NEW DUCTWORK INSIDE GYMNASIUM. COORDINATE WITH ARCHITECT ON PAINT COLOR



**2 GYMNASIUM RENOVATION PLAN**  
 (CES-H101) SCALE: 1/8" = 1'-0"

**1 PENTHOUSE & ROOF RENOVATION PLAN**  
 (CES-H101) SCALE: 1/4" = 1'-0"

ARCHITECT



NEW YORK OKLAHOMA NORTH CAROLINA  
 TEXAS COLORADO

**KSQ Design**  
 215 West 40th Street | 15th Floor  
 New York, NY 10018  
 914.682.3700 office  
 www.ksq.design

**Owner**  
**Yorktown Central School District**  
 2725 Crompond Road  
 Yorktown Heights, NY 10598  
 914 243 8000 office

**Construction Manager**  
**Ariss Contracting Co.**  
 189 Smith Street  
 Poughkeepsie, NY 12601  
 845 473 6300 office  
 845 473 1453 fax

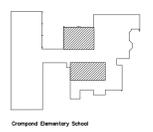
**MEP Engineer**  
**DELTA Engineers, Architects, & Land**  
 Surveyors, DPC  
 220 Harborside Dr, Suite #202  
 Schenectady, NY 12305  
 518.690.0046 office

**Structural Engineer**  
**Clapper Structural Engineering, PLLC**  
 160 Partion Street  
 Saugerties, New York 12477  
 845.943.9601 office  
 www.clapperstructural.com

**Civil Engineer**  
**The Chazen Companies**  
 547 River Street  
 Troy, New York 12180  
 518.266.7323 office  
 www.chazencompanies.com

**SED CONTROL NUMBERS**

- YHS - #66-24-02-06-0-005-028
- MS - #66-24-02-06-0-007-027
- CES - #66-24-02-06-0-003-022
- MES - #66-24-02-06-0-004-025
- BES - #66-24-02-06-0-002-020



**DISTRICT WIDE IMPROVEMENTS 2020 PHASE II**

**CROMPOND SCHOOL**  
 2901 MANOR STREET.  
 YORKTOWN HEIGHTS, NY  
 10598

**REVISIONS**

No.	Description	Date
1	ADDENDUM #2	2021.11.17

**ISSUED:** BID ISSUE

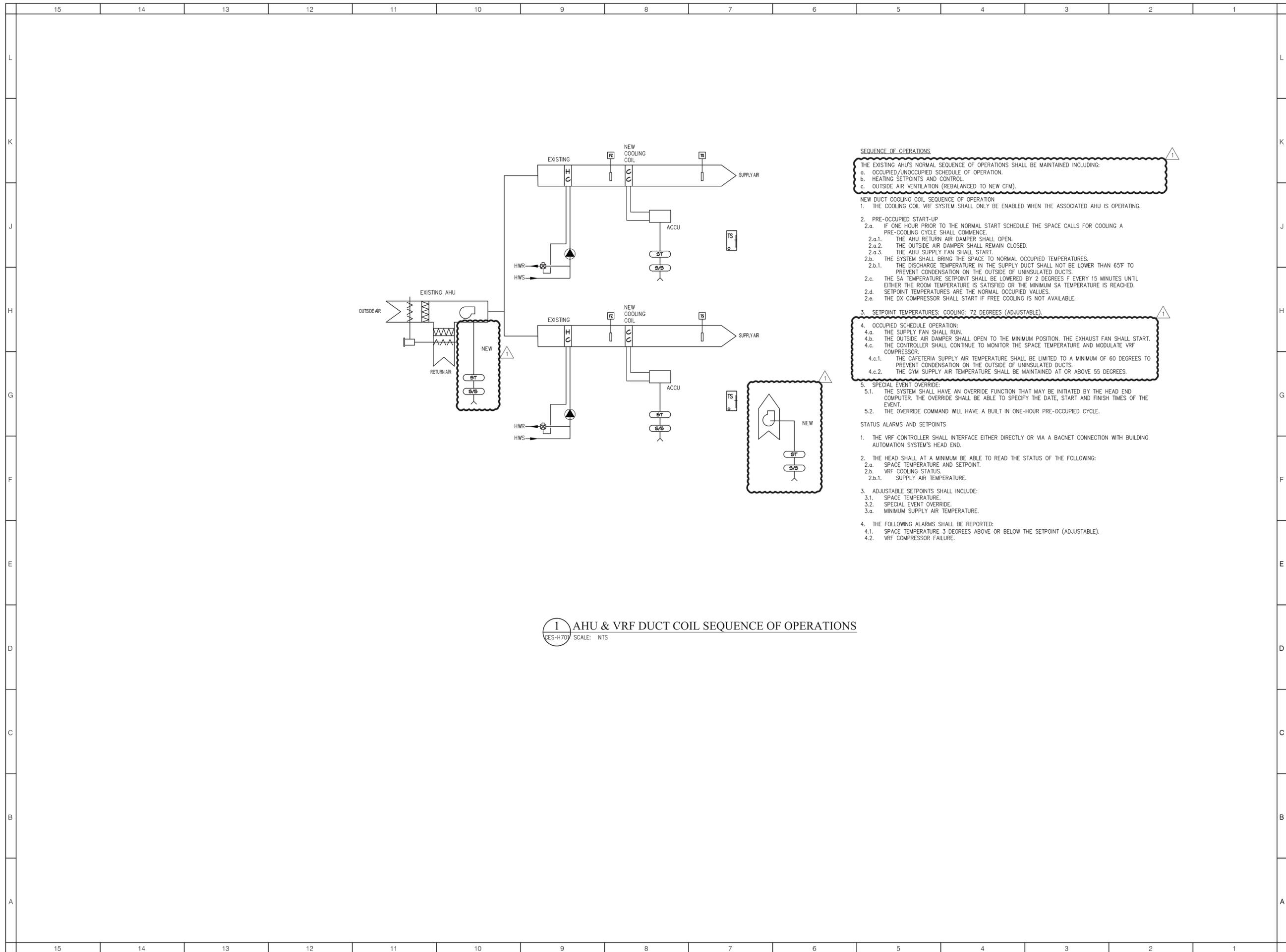
**DATE:** 10/25/2021

**SCALE:** AS NOTED

**SHEET NAME:**  
 GYMNASIUM & ROOF RENOVATION PLANS

**SHEET NUMBER:**

**CES-H101**



**SEQUENCE OF OPERATIONS**

THE EXISTING AHU'S NORMAL SEQUENCE OF OPERATIONS SHALL BE MAINTAINED INCLUDING:

- OCCUPIED/UNOCCUPIED SCHEDULE OF OPERATION.
- HEATING SETPOINTS AND CONTROL.
- OUTSIDE AIR VENTILATION (REBALANCED TO NEW CFM).

**NEW DUCT COOLING COIL SEQUENCE OF OPERATION**

- THE COOLING COIL VRF SYSTEM SHALL ONLY BE ENABLED WHEN THE ASSOCIATED AHU IS OPERATING.
- PRE-OCCUPIED START-UP
  - IF ONE HOUR PRIOR TO THE NORMAL START SCHEDULE THE SPACE CALLS FOR COOLING A PRE-COOLING CYCLE SHALL COMMENCE.
    - THE AHU RETURN AIR DAMPER SHALL OPEN.
    - THE OUTSIDE AIR DAMPER SHALL REMAIN CLOSED.
    - THE AHU SUPPLY FAN SHALL START.
  - THE SYSTEM SHALL BRING THE SPACE TO NORMAL OCCUPIED TEMPERATURES.
    - THE DISCHARGE TEMPERATURE IN THE SUPPLY DUCT SHALL NOT BE LOWER THAN 65°F TO PREVENT CONDENSATION ON THE OUTSIDE OF UNINSULATED DUCTS.
  - THE SA TEMPERATURE SETPOINT SHALL BE LOWERED BY 2 DEGREES F EVERY 15 MINUTES UNTIL EITHER THE ROOM TEMPERATURE IS SATISFIED OR THE MINIMUM SA TEMPERATURE IS REACHED.
  - SETPOINT TEMPERATURES ARE THE NORMAL OCCUPIED VALUES.
  - THE DX COMPRESSOR SHALL START IF FREE COOLING IS NOT AVAILABLE.

**3. SETPOINT TEMPERATURES: COOLING: 72 DEGREES (ADJUSTABLE).**

**4. OCCUPIED SCHEDULE OPERATION:**

- THE SUPPLY FAN SHALL RUN.
- THE OUTSIDE AIR DAMPER SHALL OPEN TO THE MINIMUM POSITION. THE EXHAUST FAN SHALL START.
- THE CONTROLLER SHALL CONTINUE TO MONITOR THE SPACE TEMPERATURE AND MODULATE VRF COMPRESSOR.
  - THE CAFETERIA SUPPLY AIR TEMPERATURE SHALL BE LIMITED TO A MINIMUM OF 60 DEGREES TO PREVENT CONDENSATION ON THE OUTSIDE OF UNINSULATED DUCTS.
  - THE GYM SUPPLY AIR TEMPERATURE SHALL BE MAINTAINED AT OR ABOVE 55 DEGREES.

**5. SPECIAL EVENT OVERRIDE:**

- THE SYSTEM SHALL HAVE AN OVERRIDE FUNCTION THAT MAY BE INITIATED BY THE HEAD END COMPUTER. THE OVERRIDE SHALL BE ABLE TO SPECIFY THE DATE, START AND FINISH TIMES OF THE EVENT.
- THE OVERRIDE COMMAND WILL HAVE A BUILT IN ONE-HOUR PRE-OCCUPIED CYCLE.

**STATUS ALARMS AND SETPOINTS**

- THE VRF CONTROLLER SHALL INTERFACE EITHER DIRECTLY OR VIA A BACNET CONNECTION WITH BUILDING AUTOMATION SYSTEM'S HEAD END.
- THE HEAD SHALL AT A MINIMUM BE ABLE TO READ THE STATUS OF THE FOLLOWING:
  - SPACE TEMPERATURE AND SETPOINT.
  - VRF COOLING STATUS.
    - SUPPLY AIR TEMPERATURE.
- ADJUSTABLE SETPOINTS SHALL INCLUDE:
  - SPACE TEMPERATURE.
  - SPECIAL EVENT OVERRIDE.
  - MINIMUM SUPPLY AIR TEMPERATURE.
- THE FOLLOWING ALARMS SHALL BE REPORTED:
  - SPACE TEMPERATURE 3 DEGREES ABOVE OR BELOW THE SETPOINT (ADJUSTABLE).
  - VRF COMPRESSOR FAILURE.

**1 AHU & VRF DUCT COIL SEQUENCE OF OPERATIONS**  
 CES-H701 SCALE: NTS

**ARCHITECT**

**ksqdesign**

NEW YORK OKLAHOMA NORTH CAROLINA  
TEXAS COLORADO

**KSQ Design**  
 215 West 40th Street | 15th Floor  
 New York, NY 10018  
 914.682.3700 office  
 www.ksq.design

**Owner**

**Yorktown Central School District**  
 2725 Crompond Road  
 Yorktown Heights, NY 10598  
 914 243 8000 office

**Construction Manager**

**Ariss Contracting Co.**  
 189 Smith Street  
 Poughkeepsie, NY 12601  
 845 473 6300 office  
 845 473 1453 fax

**MEP Engineer**

**DELTA Engineers, Architects, & Land Surveyors, DPC**  
 220 Harborside Dr, Suite #202  
 Schenectady, NY 12305  
 518.690.0046 office

**Structural Engineer**

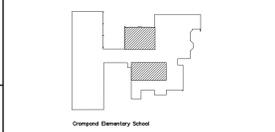
**Clapper Structural Engineering, PLLC**  
 160 Partlow Street  
 Saugerties, New York 12477  
 845.943.9601 office  
 www.clapperstructural.com

**Civil Engineer**

**The Chazen Companies**  
 547 River Street  
 Troy, New York 12180  
 518.266.7323 office  
 www.chazencompanies.com

**SED CONTROL NUMBERS**

YHS -	#66-24-02-06-0-005-028
MS -	#66-24-02-06-0-007-027
CES -	#66-24-02-06-0-003-022
MES -	#66-24-02-06-0-004-025
BES -	#66-24-02-06-0-002-020



**DISTRICT WIDE IMPROVEMENTS 2020 PHASE II**

**CROMPOND SCHOOL**  
 2901 MANOR STREET.  
 YORKTOWN HEIGHTS, NY  
 10598

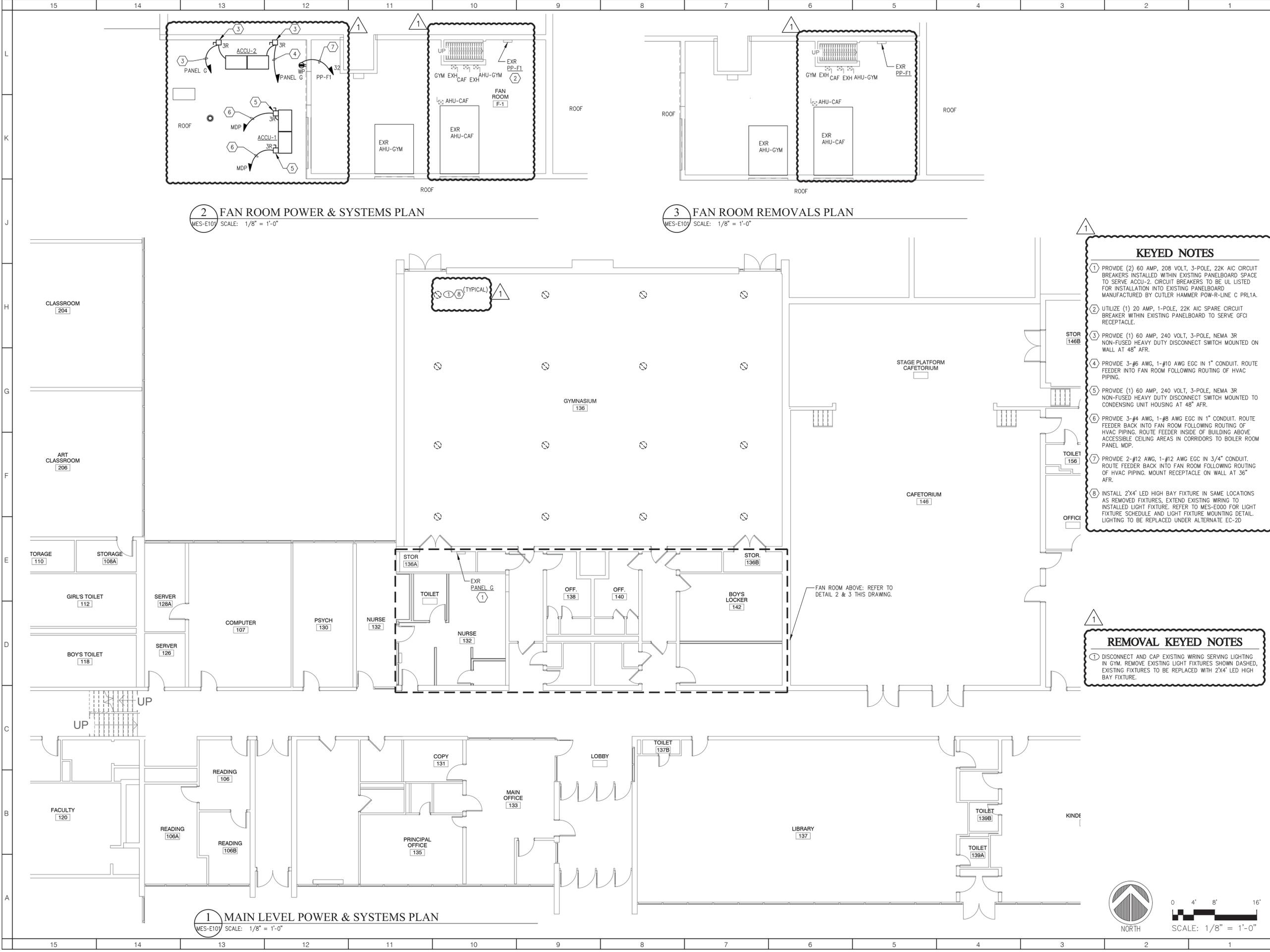
**REVISIONS**

No.	Description	Date
1	ADDENDUM #2	2021.11.17

**ISSUED:** BID ISSUE  
**DATE:** 10/25/2021  
**SCALE:** AS NOTED  
**SHEET NAME:** CONTROL DIAGRAMS

**SHEET NUMBER:**  
**CES-H701**





- KEYED NOTES**
- PROVIDE (2) 60 AMP, 208 VOLT, 3-POLE, 22K AIC CIRCUIT BREAKERS INSTALLED WITHIN EXISTING PANELBOARD SPACE TO SERVE ACCU-2. CIRCUIT BREAKERS TO BE UL LISTED FOR INSTALLATION INTO EXISTING PANELBOARD MANUFACTURED BY CUTLER HAMMER POW-R-LINE C PRL1A.
  - UTILIZE (1) 20 AMP, 1-POLE, 22K AIC SPARE CIRCUIT BREAKER WITHIN EXISTING PANELBOARD TO SERVE GFCI RECEPTACLE.
  - PROVIDE (1) 60 AMP, 240 VOLT, 3-POLE, NEMA 3R NON-FUSED HEAVY DUTY DISCONNECT SWITCH MOUNTED ON WALL AT 48" AFR.
  - PROVIDE 3-#6 AWG, 1-#10 AWG EGC IN 1" CONDUIT. ROUTE FEEDER INTO FAN ROOM FOLLOWING ROUTING OF HVAC PIPING.
  - PROVIDE (1) 60 AMP, 240 VOLT, 3-POLE, NEMA 3R NON-FUSED HEAVY DUTY DISCONNECT SWITCH MOUNTED TO CONDENSING UNIT HOUSING AT 48" AFR.
  - PROVIDE 3-#4 AWG, 1-#8 AWG EGC IN 1" CONDUIT. ROUTE FEEDER BACK INTO FAN ROOM FOLLOWING ROUTING OF HVAC PIPING. ROUTE FEEDER INSIDE OF BUILDING ABOVE ACCESSIBLE CEILING AREAS IN CORRIDORS TO BOILER ROOM PANEL MDP.
  - PROVIDE 2-#12 AWG, 1-#12 AWG EGC IN 3/4" CONDUIT. ROUTE FEEDER BACK INTO FAN ROOM FOLLOWING ROUTING OF HVAC PIPING. MOUNT RECEPTACLE ON WALL AT 36" AFR.
  - INSTALL 2X4' LED HIGH BAY FIXTURE IN SAME LOCATIONS AS REMOVED FIXTURES, EXTEND EXISTING WIRING TO INSTALLED LIGHT FIXTURE. REFER TO MES-E000 FOR LIGHT FIXTURE SCHEDULE AND LIGHT FIXTURE MOUNTING DETAIL. LIGHTING TO BE REPLACED UNDER ALTERNATE EC-2D

- REMOVAL KEYED NOTES**
- DISCONNECT AND CAP EXISTING WIRING SERVING LIGHTING IN GYM. REMOVE EXISTING LIGHT FIXTURES SHOWN DASHED. EXISTING FIXTURES TO BE REPLACED WITH 2X4' LED HIGH BAY FIXTURE.

**ARCHITECT**  
**ksqdesign**  
 NEW YORK OKLAHOMA NORTH CAROLINA TEXAS COLORADO

**KSQ Design**  
 215 West 40th Street | 15th Floor  
 New York, NY 10018  
 914.682.3700 office  
 www.ksq.design

**Owner**  
**Yorktown Central School District**  
 2725 Grampound Road  
 Yorktown Heights, NY 10598  
 914 243 8000 office

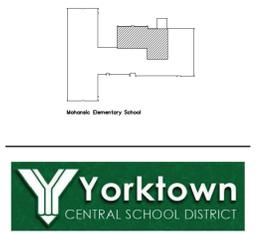
**Construction Manager**  
 Arris Contracting Co.  
 189 Smith Street  
 Poughkeepsie, NY 12601  
 845 473 6300 office  
 845 473 1453 fax

**MEP Engineer**  
 DELTA Engineers, Architects, & Land Surveyors, DPC  
 220 Harborside Dr, Suite #202  
 Schenectady, NY 12305  
 518.690.0046 office

**Structural Engineer**  
 Clapper Structural Engineering, PLLC  
 160 Partition Street  
 Saugerties, New York 12477  
 845.943.9601 office  
 www.clapperstructural.com

**Civil Engineer**  
 The Chazen Companies  
 547 River Street  
 Troy, New York 12180  
 518.266.7323 office  
 www.chazencompanies.com

**SED CONTROL NUMBERS**  
 YHS - #66-24-02-06-0-005-028  
 MS - #66-24-02-06-0-007-027  
 CES - #66-24-02-06-0-003-022  
 MES - #66-24-02-06-0-004-025  
 BES - #66-24-02-06-0-002-020



**Yorktown**  
 CENTRAL SCHOOL DISTRICT

**DISTRICT WIDE IMPROVEMENTS 2020 PHASE II**

**MOHANSIC ELEMENTARY SCHOOL**  
 704 LOCKSLEY RD.  
 YORKTOWN HEIGHTS, NY 10598

**REVISIONS**

No.	Description	Date
1	ADDENDUM #2	2021.11.17

**ISSUED: BID ISSUE**

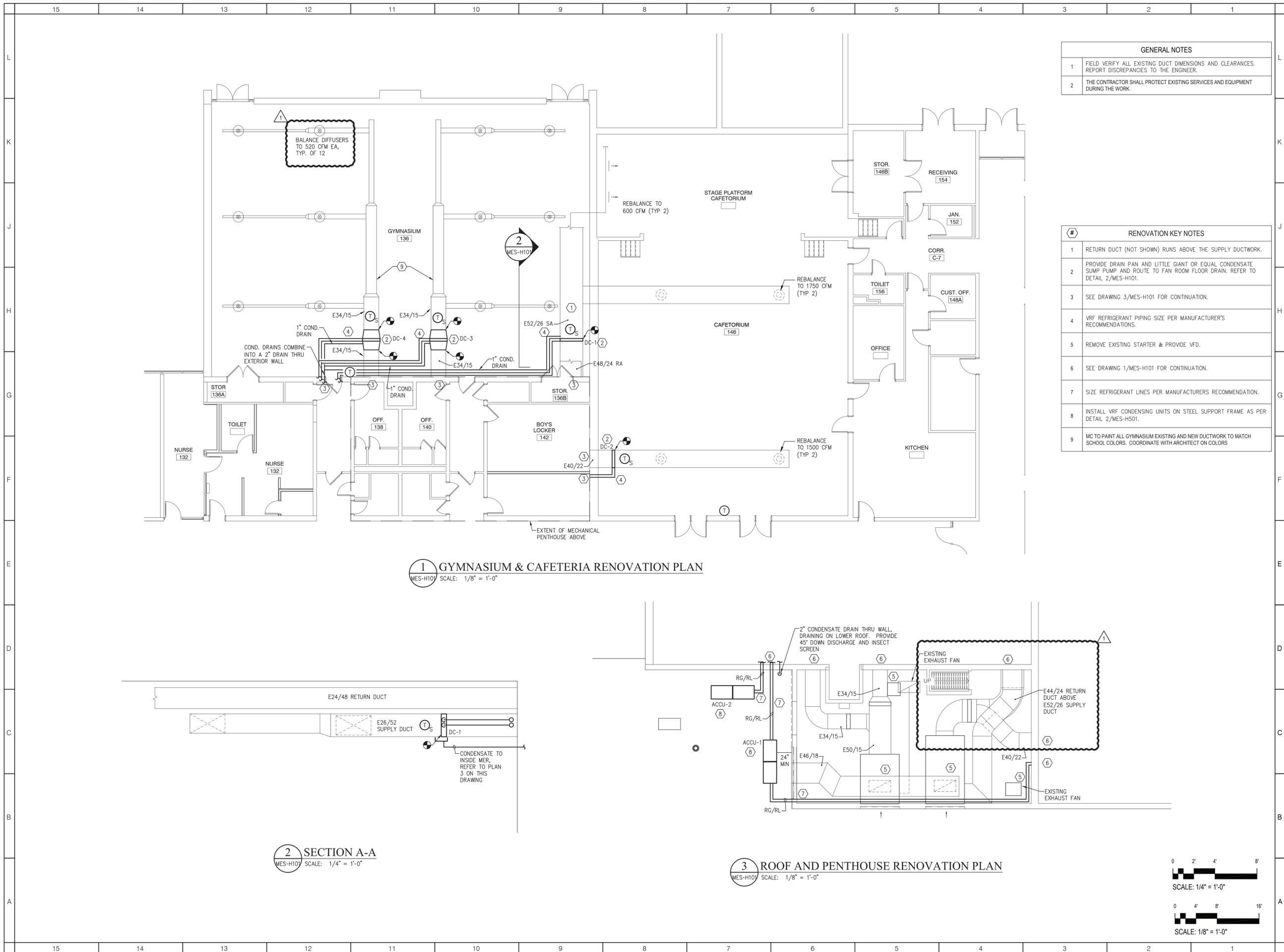
**DATE: 10/25/2021**

**SCALE: AS NOTED**

**SHEET NAME:**  
 MAIN LEVEL & FAN ROOM POWER & SYSTEMS PLAN

**SHEET NUMBER:**  
**MES-E101**





GENERAL NOTES	
1	FIELD VERIFY ALL EXISTING DUCT DIMENSIONS AND CLEARANCES. REPORT DISCREPANCIES TO THE ENGINEER.
2	THE CONTRACTOR SHALL PROTECT EXISTING SERVICES AND EQUIPMENT DURING THE WORK.

RENOVATION KEY NOTES	
1	RETURN DUCT (NOT SHOWN) RUNS ABOVE THE SUPPLY DUCTWORK.
2	PROVIDE DRAIN PAN AND LITTLE GIANT OR EQUAL CONDENSATE SUMP PUMP AND ROUTE TO FAN ROOM FLOOR DRAIN. REFER TO DETAIL 2/MES-H101.
3	SEE DRAWING 3/MES-H101 FOR CONTINUATION.
4	VRF REFRIGERANT PIPING SIZE PER MANUFACTURER'S RECOMMENDATIONS.
5	REMOVE EXISTING STARTER & PROVIDE VFD.
6	SEE DRAWING 1/MES-H101 FOR CONTINUATION.
7	SIZE REFRIGERANT LINES PER MANUFACTURER'S RECOMMENDATION.
8	INSTALL VRF CONDENSING UNITS ON STEEL SUPPORT FRAME AS PER DETAIL 2/MES-H501.
9	MC TO PAINT ALL GYMNASIUM EXISTING AND NEW DUCTWORK TO MATCH SCHOOL COLORS. COORDINATE WITH ARCHITECT ON COLORS.

**ARCHITECT**  
**ksqdesign**  
 NEW YORK OKLAHOMA NORTH CAROLINA COLORADO TEXAS  
 KSQ Design  
 215 West 40th Street | 15th Floor  
 New York, NY 10018  
 914.682.3700 office  
 www.ksq.design

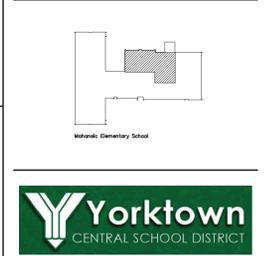
**Owner**  
 Yorktown Central School District  
 2725 Crompond Road  
 Yorktown Heights, NY 10598  
 914 243 8000 office

**Construction Manager**  
 Arris Contracting Co.  
 189 Smith Street  
 Poughkeepsie, NY 12501  
 845 473 6300 office  
 845 473 1453 fax

**MEP Engineer**  
 DELTA Engineers, Architects, & Land Surveyors, DPC  
 220 Harborside Dr, Suite #202  
 Schenectady, NY 12305  
 518.690.0046 office

**Structural Engineer**  
 Clapper Structural Engineering, PLLC  
 160 Partisan Street  
 Saugerties, New York 12477  
 845.943.9601 office  
 www.clapperstructural.com

**Civil Engineer**  
 The Chazen Companies  
 547 River Street  
 Troy, New York 12180  
 518.266.7323 office  
 www.chazencompanies.com



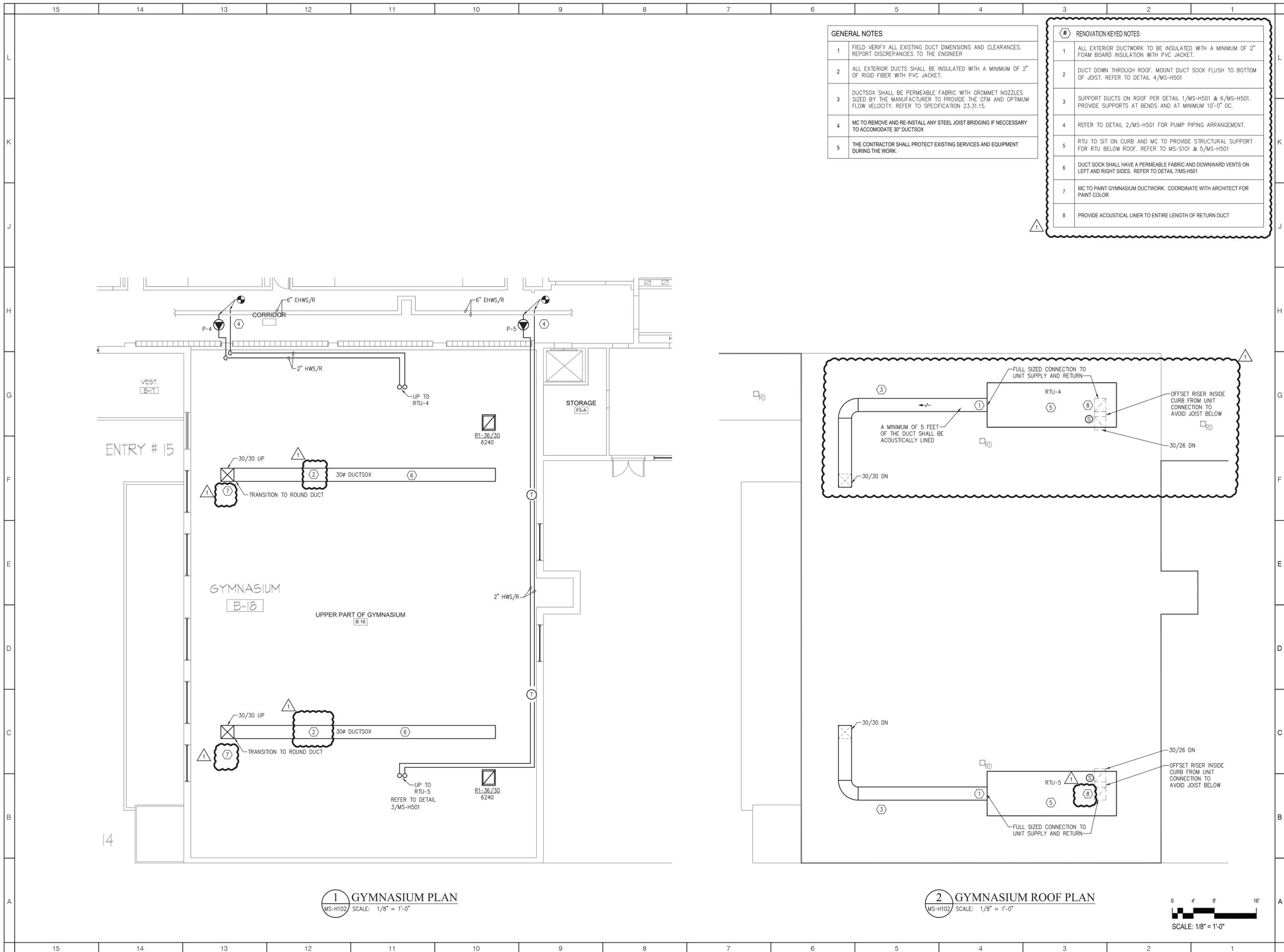
DISTRICT WIDE IMPROVEMENTS 2020 PHASE II

**MOHANSIC ELEMENTARY SCHOOL**  
 704 LOCKSLEY RD.  
 YORKTOWN HEIGHTS, NY 10598

REVISIONS		
No.	Description	Date
1	ADDENDUM #2	2021.11.17

**ISSUED:** BID ISSUE  
**DATE:** 10/25/2021  
**SCALE:** AS NOTED  
**SHEET NAME:** GYMNASIUM, CAFETERIA, & ROOF RENOVATION PLANS  
**SHEET NUMBER:** **MES-H101**



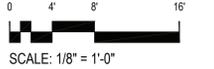


GENERAL NOTES	
1	FIELD VERIFY ALL EXISTING DUCT DIMENSIONS AND CLEARANCES. REPORT DISCREPANCIES TO THE ENGINEER
2	ALL EXTERIOR DUCTS SHALL BE INSULATED WITH A MINIMUM OF 2" OF RIGID FIBER WITH PVC JACKET.
3	DUCTSOX SHALL BE PERMEABLE FABRIC WITH GROMMET NOZZLES SIZED BY THE MANUFACTURER TO PROVIDE THE CFM AND OPTIMUM FLOW VELOCITY. REFER TO SPECIFICATION 23.31.15.
4	MC TO REMOVE AND RE-INSTALL ANY STEEL JOIST BRIDGING IF NECESSARY TO ACCOMMODATE 30" DUCTSOX
5	THE CONTRACTOR SHALL PROTECT EXISTING SERVICES AND EQUIPMENT DURING THE WORK.

RENOVATION KEYED NOTES:	
1	ALL EXTERIOR DUCTWORK TO BE INSULATED WITH A MINIMUM OF 2" FOAM BOARD INSULATION WITH PVC JACKET.
2	DUCT DOWN THROUGH ROOF. MOUNT DUCT SOCK FLUSH TO BOTTOM OF JOIST. REFER TO DETAIL 4/MS-H501
3	SUPPORT DUCTS ON ROOF PER DETAIL 1/MS-H501 & 6/MS-H501. PROVIDE SUPPORTS AT BENDS AND AT MINIMUM 10'-0" OC.
4	REFER TO DETAIL 2/MS-H501 FOR PUMP PIPING ARRANGEMENT.
5	RTU TO SIT ON CURB AND MC TO PROVIDE STRUCTURAL SUPPORT FOR RTU BELOW ROOF. REFER TO MS-S101 & 5/MS-H501
6	DUCT SOCK SHALL HAVE A PERMEABLE FABRIC AND DOWNWARD VENTS ON LEFT AND RIGHT SIDES. REFER TO DETAIL 7/MS-H501
7	MC TO PAINT GYMNASIUM DUCTWORK. COORDINATE WITH ARCHITECT FOR PAINT COLOR
8	PROVIDE ACOUSTICAL LINER TO ENTIRE LENGTH OF RETURN DUCT

**1 GYMNASIUM PLAN**  
MS-H102 SCALE: 1/8" = 1'-0"

**2 GYMNASIUM ROOF PLAN**  
MS-H102 SCALE: 1/8" = 1'-0"



**ARCHITECT**  
**ksqdesign**  
NEW YORK OKLAHOMA NORTH CAROLINA TEXAS COLORADO  
KSQ Design  
215 West 40th Street | 15th Floor  
New York, NY 10018  
914.682.3700 office  
www.ksq.design

---

**Owner**  
Yorktown Central School District  
2725 Crompond Road  
Yorktown Heights, NY 10598  
914 243 8000 office

---

**Construction Manager**  
Ariss Contracting Co.  
189 Smith Street  
Poughkeepsie, NY 12601  
845 473 6300 office  
845 473 1453 fax

---

**MEP Engineer**  
DELTA Engineers, Architects, & Land Surveyors, DPC  
220 Harborside Dr, Suite #202  
Schenectady, NY 12305  
518.690.0046 office

---

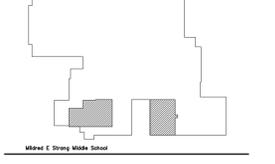
**Structural Engineer**  
Clapper Structural Engineering, PLLC  
160 Partlow Street  
Saugerties, New York 12477  
845.943.9601 office  
www.clapperstructural.com

---

**Civil Engineer**  
The Chazen Companies  
547 River Street  
Troy, New York 12180  
518.266.7323 office  
www.chazencompanies.com

**SED CONTROL NUMBERS**

YHS -	#66-24-02-06-0-005-028
MS -	#66-24-02-06-0-007-027
CES -	#66-24-02-06-0-003-022
MES -	#66-24-02-06-0-004-025
BES -	#66-24-02-06-0-002-020



**DISTRICT WIDE IMPROVEMENTS 2020 PHASE II**

**MILDRED E. STRANG MIDDLE SCHOOL**  
2701 CROMPOND RD.  
YORKTOWN HEIGHTS, NY 10598

**REVISIONS**

No.	Description	Date
1	ADDENDUM #2	2021.11.17

**ISSUED:** BID ISSUE  
**DATE:** 10/25/2021  
**SCALE:** AS NOTED  
**SHEET NAME:** GYMNASIUM RENOVATION PLANS

**SHEET NUMBER:**  
**MS-H102**





NEW YORK OKLAHOMA NORTH CAROLINA  
TEXAS COLORADO

**KSQ Design**  
215 West 40th Street | 15th Floor  
New York, NY 10018  
914.682.3700 office  
www.ksq.design

**Owner**  
**Yorktown Central School District**  
2725 Crompond Road  
Yorktown Heights, NY 10598  
914 243 8000 office

**Construction Manager**  
**Ariss Contracting Co.**  
189 Smith Street  
Poughkeepsie, NY 12601  
845 473 6300 office  
845 473 1453 fax

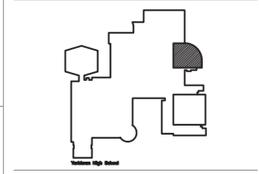
**MEP Engineer**  
**DELTA Engineers, Architects, & Land Surveyors, DPC**  
220 Harborside Dr, Suite #202  
Schenectady, NY 12305  
518.690.0046 office

**Structural Engineer**  
**Clapper Structural Engineering, PLLC**  
160 Partition Street  
Saugerties, New York 12477  
845.943.9601 office  
www.clapperstructural.com

**Civil Engineer**  
**The Chazen Companies**  
547 River Street  
Troy, New York 12180  
518.266.7323 office  
www.chazencompanies.com

**SED CONTROL NUMBERS**

- YHS - #66-24-02-06-0-005-028
- MS - #66-24-02-06-0-007-027
- CES - #66-24-02-06-0-003-022
- MES - #66-24-02-06-0-004-025
- BES - #66-24-02-06-0-002-020



**DISTRICT WIDE IMPROVEMENTS 2020 PHASE II**

**YORKTOWN HIGH SCHOOL**  
2727 CROMPOND RD.  
YORKTOWN HEIGHTS, NY 10598

**REVISIONS**

No.	Description	Date
1	ADDENDUM #2	2021.11.17

**ISSUED:** BID ISSUE

**DATE:** 10/25/2021

**SCALE:** AS NOTED

**SHEET NAME:**  
CAFETERIA & SERVERY  
REMOVAL & RENOVATION  
PLANS

**SHEET NUMBER:**

**YHS-H103**

**1& 2/YHS-H103 REMOVAL KEY NOTES**

R1	REMOVE EXISTING RTU IN ITS ENTIRETY. REMOVE ALL ASSOCIATED DUCTWORK. CONTRACTOR TO INFILL EXISTING ROOF DUCT PENETRATIONS TO MATCH EXISTING METAL DECK. GRAPHICALLY THE EXACT LOCATION OF THE EXISTING RTU IS SLIGHTLY DIFFERENT THAN SHOWN ON 1&2/YHS-H103. EXISTING DUCT RISERS UP TO UNIT ARE BETWEEN THE EXISTING W21X73 BEAMS
R2	REMOVE 2-1/2" HWS/R PIPING FROM ABOVE THE ROOF BACK TO POINT OF DISCONNECTION AND CAP.
R3	REMOVE ALL ASSOCIATED DUCTWORK.
R4	REMOVE EXISTING CONTROL PANEL, CONDUIT AND WIRING FOR EXISTING AHU.
R5	REMOVE EXISTING CEILING DIFFUSERS.

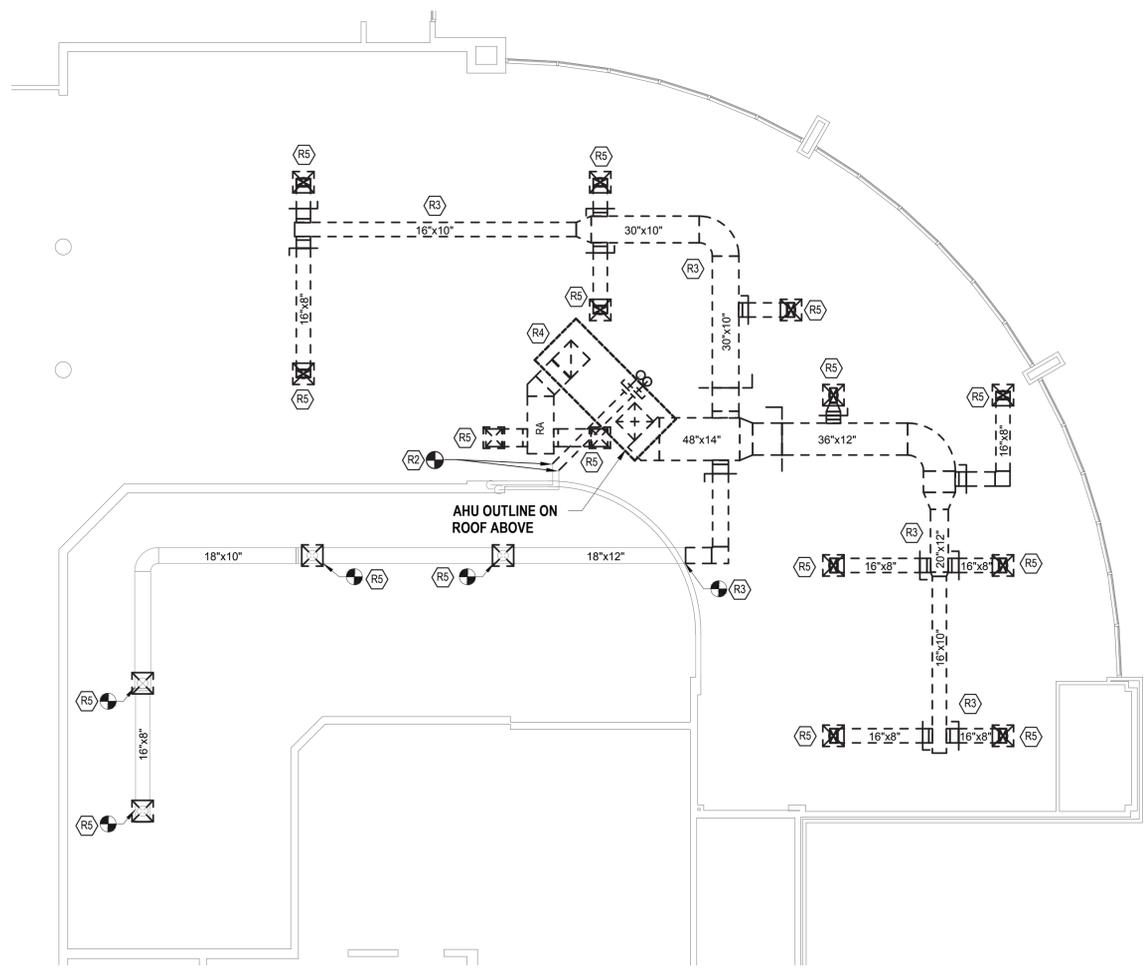
**GENERAL NOTES**

1	THE CONTRACTOR SHALL PROTECT EXISTING SERVICES AND EQUIPMENT DURING THE WORK.
---	---

**3/YHS-H103 RENOVATION KEY NOTES**

1	PROVIDE 2-1/2" HWS/R PIPING FROM POINT OF CONNECTION TO RTU-3 ON ROOF. LOCATE PIPING ROOF PENETRATIONS DIRECTLY ADJACENT TO THE RTU, WITH AS MINIMAL AMOUNT OF OUTSIDE EXPOSURE AS POSSIBLE. PROVIDE WITH INLINE CIRCULATION PUMP P-3 ABOVE THE CAFE CEILING AND OTHER VALVING AS NOTED ON DETAIL 2/YHS-H501. MOUNT STARTER/DISCONNECT ABOVE THE CEILING ON THE SERVERY CMU WALL
2	PROVIDE 2'X2' CEILING SUPPLY DIFFUSER IN EXISTING LOCATION AS REMOVED DIFFUSER AND CONNECT INTO EXISTING DUCTWORK. RE-BALANCE TO 400 CFM PER S.A. DIFFUSER
3	PROVIDE TRANSFER DUCT AND CEILING GRILLES AS SHOWN. REMOVE (1) 16"x8" CMU BLOCK IN WALL ABOVE SERVERY CEILING TO ROUTE DUCTWORK. PROVIDE 1/2" DUCT LINING ON THE INSIDE OF THE DUCT ON THE TOP
4	PROVIDE VARIABLE AIR VOLUME BOX. PLACE BOX IN BETWEEN JOISTS/BEAMS WHERE ACCESSIBLE AND PROVIDE A MINIMUM OF FIVE (5) ROUND DUCT DIAMETERS OF STRAIGHT DUCT RUN INTO THE VAV INLET.
5	PROVIDE CEILING DIFFUSER WITH A VOLUME DAMPER ON ALL SUPPLY/RETURN BRANCH DUCTWORK IN ORDER TO BALANCE THE SYSTEM.
6	PROVIDE INTERIOR DUCT LINING ON BOTH SUPPLY/RETURN DUCT RISERS DOWN FROM RTU-3 & ON THE FIRST 5FT OF HORIZONTAL SUPPLY/RETURN DUCTWORK. PROVIDE ALL SUPPLY DUCTWORK WITH 1" INSULATION
7	PROVIDE ZONE TEMPERATURE SENSOR AND WIRE TO ASSOCIATED ZONE VAV BOX. PROVIDE TEMPERATURE SENSOR ON INSULATED BLOCK WHEN MOUNTING ON EXTERIOR WALL
8	REFER TO STRUCTURAL DRAWING YHS-S102 FOR EXACT RTU-3 LOCATION OVERTOP OF EXISTING BEAMS AND ADDED SUPPLEMENTAL SUPPORTS FOR RTU-3 INSTALLATION. DUCT RISERS WILL BE BETWEEN THE EXISTING W21X73 BEAMS

**1 CAFETERIA ROOF REMOVALS PLAN**  
YHS-H103 SCALE: 1/8" = 1'-0"



**2 CAFETERIA REMOVALS PLAN**  
YHS-H103 SCALE: 1/8" = 1'-0"

**3 CAFETERIA AND SERVERY RENOVATION PLAN**  
YHS-H103 SCALE: 1/8" = 1'-0"

