

HEALY BENDER PATTON & BEEN
ARCHITECTS
4040 Helene Avenue
Naperville, Illinois 60564

ADDENDUM NO. 4
November 29, 2021

2022 MECHANICAL WORK
EISENHOWER ACADEMY
JOLIET, ILLINOIS
FOR
JOLIET PUBLIC SCHOOLS DISTRICT 86
JOLIET, WILL COUNTY, ILLINOIS
PROJECT NOS. 6-1621-40

This addendum shall be considered as part of the Contract Documents or Bidding Documents, as applicable, and shall govern insofar as it changes, deletes from, or adds to the original Contract Documents or Bidding Documents, as applicable.

The Contract Documents or Bidding Documents as applicable shall be modified to incorporate the following changes:

I. DRAWINGS

A. Sheet M-1.1 (Addendum No.2 dated 11-23-2021)

1. Mechanical HVAC Plan, Room 4; ADD new DDC wall thermostat on north wall east of the kitchen door for the existing gym roof top unit, verify in field.

B. Sheets ED-1.1 and E-1.1

1. General Notes; REVISE General Note No. 1 as follows:

“Carefully review existing conduits and devices in rooms along with drawings to review for conflicts. Remove and relocate conductors, conduits, devices, boxes, etc. as required to accommodate architectural, mechanical, and casework revisions in rooms – complete as required. Withdraw existing conductors (to nearest junction box and/or free-air low voltage cabling) to relocate boxes, surface raceway and conduit and reinstall/re-terminate to relocated devices/jacks as required.”

END OF ADDENDUM NO. 4

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HEALY BENDER PATTON & BEEN
ARCHITECTS
4040 Helene Avenue
Naperville, Illinois 60564

ADDENDUM NO. 4
November 29, 2021

2022 MECHANICAL WORK
T.E. CULBERTSON ELEMENTARY SCHOOL
JOLIET, ILLINOIS
FOR
JOLIET PUBLIC SCHOOLS DISTRICT 86
JOLIET, WILL COUNTY, ILLINOIS
PROJECT NOS. 6-1621-39

This addendum shall be considered as part of the Contract Documents or Bidding Documents, as applicable, and shall govern insofar as it changes, deletes from, or adds to the original Contract Documents or Bidding Documents, as applicable.

The Contract Documents or Bidding Documents as applicable shall be modified to incorporate the following changes:

I. DRAWINGS

A. Sheet P-1.2

1. DELETE Sheet P-1.2 in its entirety and REPLACE with revised Sheet P-1.2 dated 11-29-2021 included as part of this Addendum.

B. Sheet M-1.2 (Addendum No. 2 dated 11-23-2021)

1. First Floor Mechanical HVAC Plan, Room 1, 2, 4, and 5; REVISE transfer air duct to provide a transfer air grille "T-2 (36"x12")" on the end of the transfer air ducts in lieu of transfer air openings in Rooms 1, 2, 4, and 5. To CLARIFY, the transfer air ductwork is exposed below the existing ceiling system.
2. First Floor Mechanical HVAC Plan, Room, 101; ADD a new DDC wall thermostat on south wall east corner of for existing Gymnasium roof top unit, verify in field.
3. First Floor Mechanical HVAC Plan, Room 104; ADD a new DDC wall thermostat on south wall east corner of existing Library, verify in field.

C. Sheet M-1.4

1. Roof Mechanical HVAC Plan; ADD the following note pointing to the roof top unit serving Room 104:

"Provide new DDC controls and thermostat to interface the existing roof top unit to the new FMS system. Clean, inspect and provide a deficiency list of items that need to be repaired. Provide new belts and filters and place roof top unit in proper working order."

D. Sheet M-2.2

1. Grille, Register & Diffuser Schedule; ADD the following to the schedule:

"T-1; Nailor #6145-H Return/Transfer air Grille, lay in panel, see plans for size.

T-2; Nailor #6145-H, Return/Transfer air Grille, Surface-wall or duct mounted, see plans for size."

E. Sheets ED-1.2, ED-1.3, E-1.2 and E-1.3

1. General Notes; REVISE General Note No. 1 as follows:

“Carefully review existing conduits and devices in rooms along with drawings to review for conflicts. Remove and relocate conductors, conduits, devices, boxes, etc. as required to accommodate architectural, mechanical, and casework revisions in rooms – complete as required. Withdraw existing conductors (to nearest junction box and/or free-air low voltage cabling) to relocate boxes, surface raceway and conduit and reinstall/re-terminate to relocated devices/jacks as required.”

F. Sheet E-1.2

1. First Floor Electrical Power Plan, Room 114; REVISE power location for new sewage ejector location per revised Sheet P-1.2 dated 11-29-2021 included as part of this Addendum.

END OF ADDENDUM NO. 4

PLUMBING EQUIPMENT AND FIXTURE SCHEDULE																
TAG NO.	FIXTURE/EQUIPMENT TYPE	FIXTURE/EQUIPMENT DESCRIPTION	FIXTURE/EQUIPMENT MANUFACTURER AND MODEL NO.	ACCEPTABLE MANUF.	FIXTURE VALVE/FAUCET TYPE	FIXTURE VALVE/FAUCET TYPE	ACCEPTABLE MANUF.	ACCESSORIES/REMARKS (SEE SPECIFICATIONS FOR ADDITIONAL INFORMATION)	ELECTRICAL DATA							
									HP	MCA	FLA	AMPS	MOCP	VOLT	FH	HZ
FD-1	FLOOR DRAIN	CAST IRON BODY, ADJUSTABLE 6"x6" NICKEL BRONZE TOP	WADE 1100-66	NOTE #1	-	-	-	VANDALPROOF SCREWS, PLUGGED TRAP PRIMER	-	-	-	-	-	-	-	-
SE-1	SEWAGE EJECTOR	40-GPM AT 15-FEET TDH, WITH A 1-1/2-INCH DISCHARGE	METROPOLITAN MSA-33V	NOTE #2	-	-	-	18-INCH DIAMETER X 30-INCH DEEP FIBERGLASS BASIN	1/3	-	-	-	-	120	1	60
NOTE #1: ZURN, JOSEPH, JR. SMITH, MIFAB																
NOTE #2: ZOLLER																

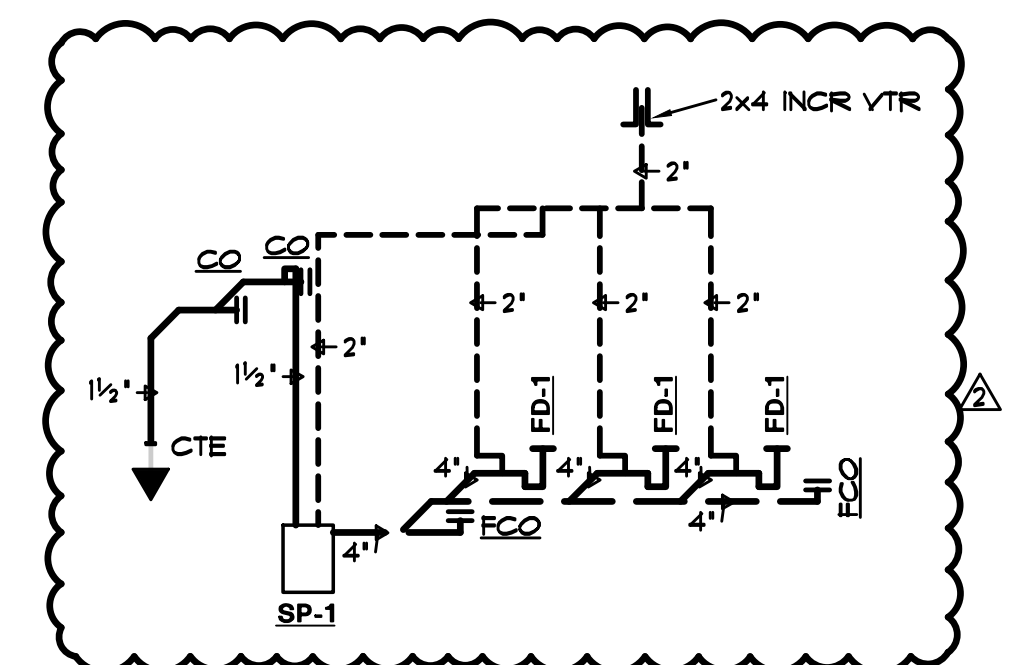
PLUMBING GENERAL

- WORK SHALL COMPLY WITH LOCAL, MUNICIPAL, AND STATE PLUMBING CODES AND ILLINOIS LIFE SAFETY CODE FOR SCHOOLS.
- LAYOUT IS DIAGNOSTIC. INSTALL PIPING AND EQUIPMENT TO MEET ACTUAL FIELD CONDITIONS. REVIEW PROJECT SPECIFICATIONS BEFORE STARTING ANY WORK. SUBMIT SHOP DRAWINGS OF WORK AS PER SPECIFICATIONS.
- COORDINATE PHASING OF WORK AND PROVIDE TEMPORARY PIPING AND SERVICES AS REQUIRED FOR THE IMPLEMENTATION OF WORK WHILE MAINTAINING SERVICES TO PORTIONS OF BUILDING TO REMAIN OCCUPIED.
- LAYOUT WORK TO AVOID CONFLICTS BETWEEN DUCTWORK, LIGHTING, CEILING, PIPING AND BUILDING STRUCTURE.
- SCHEDULE WORK TO AVOID DOWNTIME AND INCONVENIENCE TO OWNER. OWNER'S EXISTING FACILITY SHALL REMAIN IN OPERATION AT TIMES. REQUIRED SHUTDOWN OF EXISTING UTILITIES SHALL BE SCHEDULED WITH OWNER'S OPERATING PERSONNEL. NOTIFY OWNER'S REPRESENTATIVE 48 HOURS IN ADVANCE PRIOR TO ANY SHUTDOWN OF EXISTING PLUMBING SYSTEMS.
- VERIFY LOCATION AND ELEVATION OF PLUMBING EQUIPMENT, FIXTURES, PIPING, PANELS, ETC. EXPOSED WITHIN OCCUPIED SPACES BEFORE THE START OF ANY ROUGH-IN OR INSTALLATION.
- COORDINATE EQUIPMENT ELECTRICAL REQUIREMENTS (VOLTAGES, PHASE, LOAD, ETC.) BEFORE ORDERING ANY EQUIPMENT.
- COORDINATE VENT THROUGH ROOF LOCATIONS WITH OUTDOOR AIR INTAKE LOCATIONS TO MAINTAIN A MINIMUM SEPARATION OF TEN FEET.
- VISIT SITE PRIOR TO BIDDING TO DETERMINE FIELD CONDITIONS. VERIFY EXISTING INTERIOR PLUMBING SYSTEMS TO VERIFY QUANTITIES AND LOCATIONS OF EXISTING SYSTEMS TO DETERMINE EXTENT OF NEW AND DEMOLITION WORK. VERIFY EXISTING INTERIOR SANITARY PIPING SYSTEMS AS TO ROUTING, SIZE AND INVERT ELEVATION PRIOR TO ANY INSTALLATION OF NEW AND REMOVAL OF ANY EXISTING.
- COORDINATE NEW INSTALLATIONS WITH EXISTING SYSTEMS. ANY EXISTING CONDUIT, PIPING, DUCTWORK, EQUIPMENT, ETC. SHALL BE REWORKED AS REQUIRED TO AVOID CONFLICTS WITH THE INSTALLATION OF THE NEW PLUMBING SYSTEMS. NO EXTRAS WILL BE ALLOWED AFTER BIDDING FOR ANY REWORK OF EXISTING FIELD CONDITIONS TO RESOLVE ANY CONFLICTS OR NOT FULLY UNDERSTANDING THE SCOPE OF THE WORK REQUIRED. EXISTING EQUIPMENT, FIXTURES AND PIPING, ETC. SHALL BE REMOVED AS NOTED ON DRAWINGS AND AS REQUIRED TO MEET NEW SCOPE OF WORK.
- EXISTING INFORMATION IDENTIFIED ON THE CONTRACT DOCUMENTS IS SCHEMATIC ONLY AS AN AID TO THE CONTRACTOR. PROPERLY ADDRESS EXISTING CONDITIONS FOR A COMPLETE AND PROPER INSTALLATION OF NEW SYSTEMS. EXISTING EQUIPMENT NOT IDENTIFIED SHALL BE REPORTED IN WRITTEN FORM FOR REVIEW AS TO WHETHER THE EQUIPMENT SHALL REMAIN AND BE RECONNECTED TO THE NEW SERVICES, BE RELOCATED, BE ABANDONED, ETC.
- ANY HIDDEN CONDITIONS IDENTIFIED THROUGH THE COURSE OF CONSTRUCTION SHALL BE IMMEDIATELY REPORTED IN WRITTEN FORM FOR REVIEW AND DIRECTION. FAILURE TO DO SO SHALL MAKE THE CONTRACTOR RESPONSIBLE FOR ANY REQUIRED CHANGES AND COSTS TO CORRECT SAID HIDDEN CONDITION.
- REMOVE EXISTING CEILING REQUIRED FOR INSTALLATION OF NEW WORK. REINSTALL CEILING UPON COMPLETION OF WORK. REPLACE DAMAGED CEILING MATERIALS TO MATCH EXISTING.
- PROVIDE AND INSTALL PLENUM WRAP, TESTED TO UL 84 AND UL 910, ON ALL EXISTING PVC PIPING IN NEW OR EXISTING RETURN AIR CEILING PLENUMS.
- PROVIDE ROUGH-IN AND FINAL CONNECTIONS TO PLUMBING EQUIPMENT AND FIXTURES. SET FIXTURES/EQUIPMENT AND FURNISH AND INSTALL NECESSARY FITTINGS, TRAPS, STOPS, ETC. AS REQUIRED.
- PROTECT NEW DRAIN OPENINGS AND SANITARY LINES DURING CONSTRUCTION TO PREVENT BLOCKAGE. ROD-OUT EXISTING SANITARY PIPING. PIPING SHALL BE FREE OF BLOCKAGE.
- VIDEOTAPE EXISTING SANITARY MAIN TO CONFIRM EXISTING BRANCH SANITARY CONNECTION POINTS, INVERTS AND CONDITION OF PIPING AS REQUIRED TO COMPLETE WORK. PROVIDE REPORT INDICATING CONNECTION POINT LOCATIONS, INVERTS, AND ANY DEFICIENCIES IN EXISTING SANITARY PIPING SYSTEM PRIOR TO STARTING WORK.

SYMBOL LIST

- EXISTING UNDERGROUND SANITARY PIPING
- EXISTING PIPING
- NEW UNDERGROUND SANITARY SEWER
- NEW VENT PIPING
- PIPE DOWN
- PIPE UP
- CO CLEANOUT
- CTE CONNECT TO EXISTING
- DN DOWN
- EX EXISTING
- FCO FLOOR CLEANOUT
- FD FLOOR DRAIN
- SP SUMP PUMP
- V VENT
- VTR VENT THROUGH ROOF

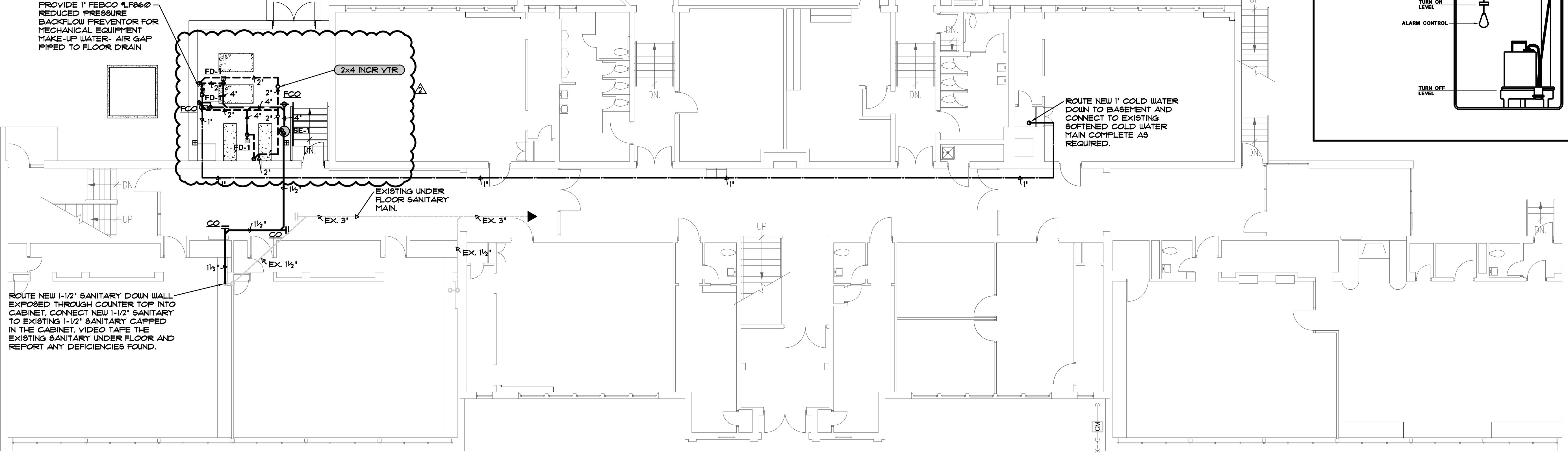
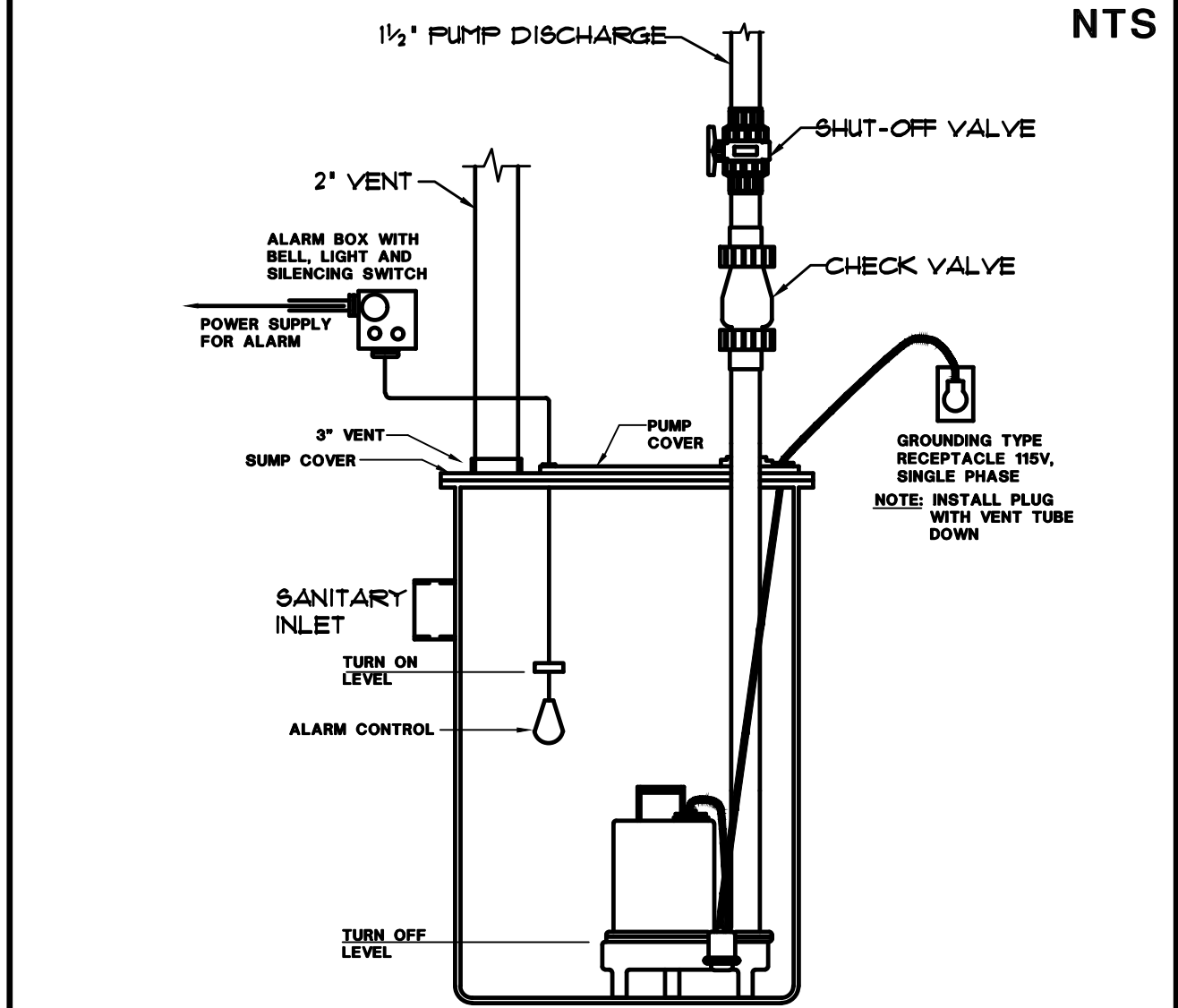
PLUMBING RISER DIAGRAM



ROUTE NEW 1" COLD WATER DOWN TO BASEMENT AND CONNECT TO EXISTING COLD WATER MAIN COMPLETE AS REQUIRED.

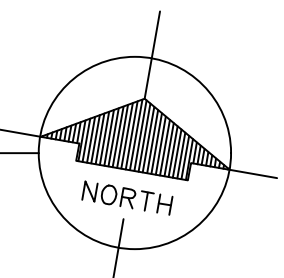
PROVIDE 1" FIBCO 1" F860 REDUCED PRESSURE BACKFLOW PREVENTOR FOR MECHANICAL EQUIPMENT MAKE-UP WATER. AIR GAP PIPED TO FLOOR DRAIN

SEWAGE EJECTOR DETAIL



FIRST FLOOR PLUMBING PLAN

1/8" = 1'-0"
0 2 4 8 16 24



ROOM INDEX

FIRST FLOOR	
1	CLASSROOM
1A	STORAGE
1B	STORAGE
1C	TOILET
2	CLASSROOM
2A	TOILET
2B	STORAGE
3	CLASSROOM
4	CLASSROOM
5	CLASSROOM
6	CLASSROOM
7	CLASSROOM
101	GYMNASIUM
101A	STORAGE
102	STORAGE
103	KITCHEN
104	LIBRARY
105	STORAGE
106	TEACHER LOUNGE
107	WORK ROOM
108	JANITOR
109	JANITOR
110	NURSE
110A	TOILET
111	SOCIAL WORKER
111A	TOILET
112	MAN OFFICE
112A	PRINCIPAL
112B	WORK ROOM
112C	STORAGE
113	CONFERENCE ROOM
C101	CORRIDOR
C102	CORRIDOR
C103	CORRIDOR
C104	CORRIDOR
C105	CORRIDOR
S101	STAIR #1
S102	STAIR #2
S103	STAIR #3
T101	BOYS
T102	GIRLS
V101	VESTIBULE
V102	VESTIBULE
V103	VESTIBULE

2022 MECHANICAL WORK
T.E. CULBERTSON ELEMENTARY SCHOOL

FOR
JOLIET, ILLINOIS
JOLIET PUBLIC SCHOOLS DISTRICT 86
JOLIET, WILL COUNTY, ILLINOIS

REVISIONS
NO. 2
DATE 11-28-2021
DESCRIPTION ADDENDUM NO. 4

PROJ. NO.
6-1621-39

DRAWN BY
MDG

DATE
11-08-2021

SHEET NO.

P-1.2

OF 1

FIRST FLOOR PLUMBING PLAN
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HEALY BENDER PATTON & BEEN
ARCHITECTS
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ADDENDUM NO. 3
November 24, 2021

2022 MECHANICAL WORK
FOREST PARK INDIVIDUAL
EDUCATION SCHOOL
JOLIET, ILLINOIS
FOR
JOLIET PUBLIC SCHOOLS DISTRICT 86
JOLIET, WILL COUNTY, ILLINOIS
PROJECT NOS. 6-1621-41

This addendum shall be considered as part of the Contract Documents or Bidding Documents, as applicable, and shall govern insofar as it changes, deletes from, or adds to the original Contract Documents or Bidding Documents, as applicable.

The Contract Documents or Bidding Documents as applicable shall be modified to incorporate the following changes:

I. DRAWINGS

A. Sheet A-5

1. Roofing Notes At Roof 'A', 'B', 'C' and 'D'; ADD the following note:

"4. Contractor to provide pipe boots, pipe curbs, equipment curbs for new mechanical equipment work whether shown or not. Coordinate roof work with mechanical and electrical drawings – Typ."

2. Roof Plan, Roof 'B'; to CLARIFY the detail for new mechanical equipment on new equipment rails is "8/A-6".
3. Roof Plan, Roof 'D'; ADD the indication of steel beam and column supports to Rooftop Unit RT-2F coordinate with structural framing plans. ADD the following note pointing to RT-2F:

"New mechanical equipment on steel beams and columns – Properly flash up columns and ductwork per existing roof manufacturer's requirements –and provide weathertight condition at column and ductwork penetrations – See structural and mechanical drawings for additional information – Typ."

B. Sheet S-1

DELETE Sheet S-1 in its entirety and REPLACE with revised Sheet S-1 dated 11-24-2021 included as part of this Addendum.

C. Sheet S-2.1

1. Second Floor/Low Roof Framing, Rooms 11 and 11A; ADD the indication and callout for new steel lintel "L-6 VIF" on south wall to accommodate outside air intake. Coordinate with mechanical drawings.
2. Second Floor/Low Roof Framing, Room 17A; ADD the indication and callout for new steel lintel "L-8" on east wall to accommodate outside air ductwork. Coordinate with mechanical drawings.

3. Second Floor/Low Roof Framing, Room 18; ADD the indication and callout for new steel lintel "L-2" on east exterior masonry wall to accommodate outside air intake. Coordinate with mechanical drawings.
4. Second Floor/Low Roof Framing, Room 18; ADD indication and the following note for new opening between existing joist tees for new Chiller Piping penetrations:
"Stl. L6x4x5/16, LLH, Fr. welded to existing struct. to supt. mech. equip. and curb above – Typ."

D. Sheet S-2.2

1. Third Floor/Gymnasium Roof Framing Plan, Room 25; REVISE location of lintel from west wall to north wall, coordinate with mechanical drawings. REVISE lintel tag to "L-7" in lieu of "L-5".

E. Sheet M-1.4

1. Roof Mechanical HVAC Plan, Roof 'D'; to CLARIFY rooftop unit RT-2F shall be directly mounted to new structural support framing above roof, in lieu of providing a roof curb. Unit shall be tack welded every 12" to structural steel support. Provide base insulation at bottom of unit. Exposed ductwork routed from bottom of unit to roof shall be insulated per specification requirements for exterior ductwork.
2. Roof Mechanical HVAC Plan, Roof 'D'; to CLARIFY gas piping routed along roof shall be routed up and over structural steel support frames provided for C-1F and RT-2F. See structural drawings for additional information.

END OF ADDENDUM NO. 3

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GENERAL FRAMING NOTES:

1. DESIGN LOADS CALCULATED IN ACCORDANCE WITH THE PROVISIONS AND REQUIREMENTS OF ASCE/SEI 7-10 AS REFERENCED BY THE 2015 INTERNATIONAL BUILDING CODE.
2. DESIGN LOADS
- DEAD:
- EXISTING ROOF (ASSUMED) 30 PSF
- EXISTING FLOOR (ASSUMED) 71 PSF
- LIVE:
- EXISTING ROOF (ASSUMED) 25 PSF
- EXISTING FLOOR (ASSUMED) 125 PSF
- ROOF SNOW:
- P_s - GROUND SNOW LOAD 25 PSF
- C_e - SNOW EXPOSURE FACTOR 1.00
- I_s - SNOW IMPORTANCE FACTOR 1.10
- C_t - THERMAL FACTOR 1.00 PSF
- P_r - FLAT-ROOF SNOW LOAD (CODE) 22 PSF
- WIND:
- V - BASIC DESIGN WIND SPEED 120 MPH
- RISK CATEGORY III
- WIND EXPOSURE C
- INTERNAL PRESSURE COEFFICIENT 0.18 ±
- COMPONENTS & CLADDING PER SPEC.
- BASE SHEAR EXISTING BUILDING
- SEISMIC:
- RISK CATEGORY III
- I_e - SEISMIC IMPORTANCE FACTOR 1.25
- S_s - MAPPED SPECTRAL ACCELERATION 0.157 g
- S₁ - MAPPED SPECTRAL ACCELERATION 0.069 g
- SITE CLASS D
- S_{DS} - DESIGN SPECTRAL ACCELERATION 0.168 g
- S_{DS} - DESIGN SPECTRAL ACCELERATION 0.111 g
- SEISMIC DESIGN CATEGORY B
- SEISMIC-FORCE-RESISTING SYSTEM EXISTING BUILDING
3. NOTED ELEVATIONS REFERENCE ELEVATION +0'-0" - TOP OF EXISTING CONCRETE FLOOR SLAB, UNLESS OTHERWISE NOTED.

4. ROOF FRAMING MEMBERS INCLUDING BEAMS, AND STEEL JOISTS SHALL BE DESIGNED TO SUPPORT ADDITIONAL LOADING FROM SUPERIMPOSED PLUMBING, FIRE PROTECTION, MECHANICAL, AND PLUMBING SYSTEMS AND EQUIPMENT INCLUDING SPRINKLER PIPING AND MECHANICAL COMPONENTS, DUCTWORK, AND PIPING.
5. COORDINATE EXACT LOADS AND LOCATIONS WITH PLUMBING, FIRE PROTECTION, MECHANICAL, AND ELECTRICAL DRAWINGS AND WITH MANUFACTURERS OF SYSTEMS AND EQUIPMENT SUPPLIED.
6. PROVIDE LINTELS, HEADERS, AND ROOF OPENING FRAMES FOR OPENINGS NOT SHOWN ON PLANS BUT REQUIRED FOR THE COMPLETION OF THE WORK AND THE PROPER INSTALLATION OF DUCTWORK AND MECHANICAL COMPONENTS. CONTRACTOR TO COORDINATE WITH TRADES.
7. CONNECTIONS SHALL BE BOLTED OR WELDED AND SHALL BE DESIGNED FOR THE END REACTIONS INDICATED ON PLANS, OR IF NOT INDICATED, SHALL BE DESIGNED TO DEVELOP 60% OF THE TABULATED ALLOWABLE UNIFORM LOAD TABULATED IN THE AMERICAN INSTITUTE OF STEEL CONSTRUCTION "MANUAL OF STEEL CONSTRUCTION", UNLESS OTHERWISE NOTED.
8. VISUALLY EXPOSED WELDED CONNECTIONS SHALL BE GROUND SMOOTH. EXTERIOR WELDED CONNECTIONS SHALL BE WEATHERTIGHT.
9. THE CONTRACTOR SHALL VERIFY IN FIELD, THE LOCATION, SIZE AND EXTENT OF EXISTING FRAMING. APPARENT DISCREPANCIES SHALL BE FORWARDED TO THE ARCHITECT DURING BIDDING FOR REVIEW.
10. THE CONTRACTOR SHALL DETERMINE IN FIELD, THE EXTENT OF EXISTING CONSTRUCTION, MECHANICAL, ELECTRICAL, PLUMBING, AND STRUCTURAL ITEMS TO BE REMOVED TO ACCOMMODATE THE INSTALLATION OF NEW STRUCTURAL MEMBERS. THESE ITEMS TO BE REMOVED INCLUDE BUT ARE NOT NECESSARILY LIMITED TO CEILING TILES, GRIDS, SOFFITS, FINISHES, PIPING, CONDUIT, LIGHTING FIXTURES, DUCTWORK, EQUIPMENT, BRIDGING, BRACING, ACCESSORY FRAMES, ETC. AFTER NEW STRUCTURAL MEMBER INSTALLATION CONTRACTOR SHALL REINSTALL, REPLACE, AND/OR REROUTE REMOVED ITEMS AND PATCH TO MATCH ADJACENT EXISTING UNDISTURBED AREAS - TYP.
11. REFER TO ARCHITECTURAL DRAWINGS FOR ADDITIONAL STRUCTURAL INFORMATION INCLUDING MISCELLANEOUS ANGLES, CLIPS, BRACES, STRUTS, PLATE GUSSETS, ETC.

GENERAL LINTEL AND HEADER NOTES:

1. PROVIDE LINTELS FOR OPENINGS, MECHANICAL RECESSES, OPENINGS IN MASONRY WALLS FOR MECHANICAL DUCTWORK, OTHER REQUIRED OPENINGS IN MASONRY WALLS AND OTHER LOCATIONS REQUIRED TO FACILITATE THE WORK, WHETHER SHOWN ON THE DRAWINGS OR NOT.
2. LINTEL AND BEAM BEARING, UNLESS OTHERWISE NOTED, FOR OPENINGS UP TO 4'-0" WIDE, 4" BEARING ABOVE 4'-0" AND UP TO 10'-0", 8" BEARING ABOVE 10'-0", 12" BEARING. MAXIMUM ALLOWABLE BEARING PRESSURE FOR MASONRY TO BE 150 PSI.
3. PROVIDE HEADERS FOR OPENINGS, MECHANICAL RECESSES, OPENINGS IN STUD WALLS FOR MECHANICAL DUCTWORK, OTHER REQUIRED OPENINGS IN STUD WALLS AND OTHER LOCATIONS REQUIRED TO FACILITATE THE WORK, WHETHER SHOWN ON THE DRAWINGS OR NOT.
4. HEADERS SHALL HAVE A MINIMUM BEARING OF 1 JACK STUD WITH 1½" FLANGE, UNLESS OTHERWISE NOTED. ADJACENT KING STUD SHALL BE CONTINUOUS FULL HEIGHT, UNLESS OTHERWISE NOTED.

BEARING PLATE SCHEDULE

MARK	SIZE	REMARKS
BP-1	7"x12"x¾"	NOTE 1, 2
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- NOTE 1. BEARING PLATE SHALL BE CENTERED ON THE CONCRETE MASONRY UNIT WYTHE OF THE CAVITY WALL.
- NOTE 2. PROVIDE (2) ½" DIAMETER x 8" LONG HEADED STUD ANCHORS PER BEARING PLATE - GROUT SOLID.

COLUMN SCHEDULE

MARK	SIZE	SHAPE	REMARKS
C-1	PIPE 4 X-STRONG	○	---
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LINTEL SCHEDULE

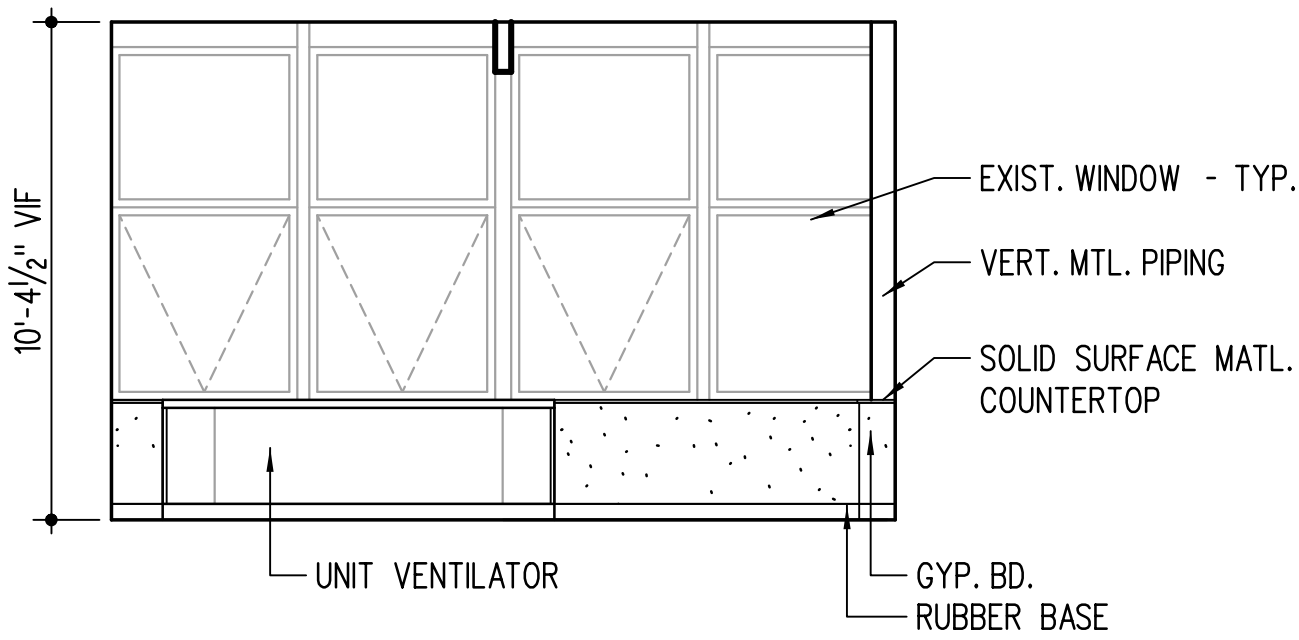
MARK	SIZE	PL	SHAPE	REMARKS
L-1	(2) L3/2x3/2x¾"	¾" PL	⌒	NOTE 1, 3
L-2	(3) L3/2x3/2x¾"	¾" PL	⌒	NOTE 3
L-3	(2) L3/2x3/2x¾"	¾" PL	⌒	NOTE 1, 5
L-4	(3) L5x3/2x¾"	---	⌒	NOTE 2, 3
L-5	(2) L5x3/2x¾"	¾" PL	⌒	NOTE 1, 2, 5
L-6	(3) L5x3/2x¾"	¾" PL	⌒	NOTE 1, 2, 4
L-7	(3) L3/2x3/2x¾"	¾" PL	⌒	NOTE 1, 2, 4
L-8	(3) L3/2x3/2x¾"	---	⌒	NOTE 6
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- NOTE 1. PLATE WIDTH SHALL BE ½" LESS THAN ACTUAL MASONRY WALL THICKNESS UNLESS OTHERWISE NOTED. PLATE SHALL EXTEND THE LENGTH OF THE MASONRY OPENING.
- NOTE 2. LONG LEG VERTICAL.
- NOTE 3. DOUBLE ANGLES TO BE CENTERED ON THE EXISTING 8" THICK MASONRY WYTHE.
- NOTE 4. DOUBLE ANGLES TO BE CENTERED ON THE EXISTING 12" THICK MASONRY WYTHE.
- NOTE 5. ONE ANGLE TO BEAR ON THE EXISTING 4" CMU WYTHE. ONE ANGLE TO BEAR ON THE EXISTING 4" BRICK WYTHE.
- NOTE 6. TRIPLE ANGLES TO BE CENTERED ON THE EXISTING 12" THICK MASONRY WYTHE.

HEADER SCHEDULE

MARK	SIZE	QTY	SHAPE	REMARKS
H-1	MTL. FRMG. LAY-IN - TRACKS: 3/8"x33 MIL - STUDS: 3/8"x33 MIL	(1) (1)	⌒	NOTE 1, 2
H-2	(2) MTL. FRMG. LAY-IN - TRACKS: 2/2"x33 MIL - STUDS: 2/2"x33 MIL	(2) (2)	⌒	NOTE 1, 2
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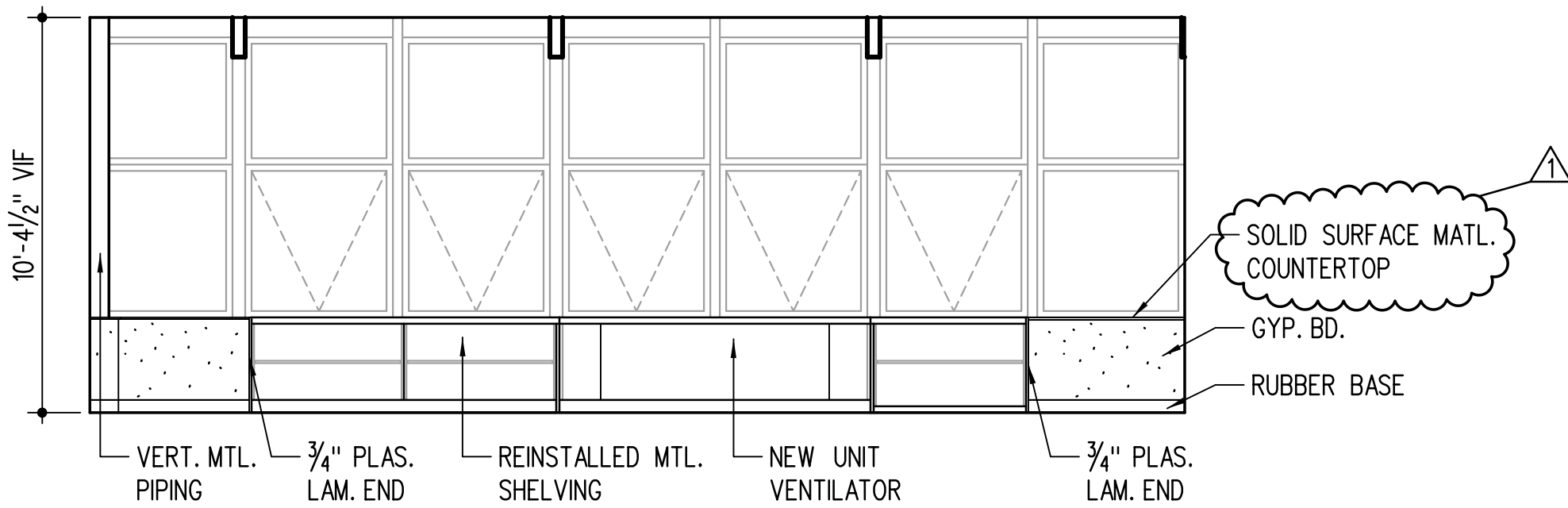
- NOTE 1. HEADER TRACKS TO HAVE 1/4" WIDE FLANGE.
- NOTE 2. HEADER STUDS TO HAVE 1½" WIDE FLANGE.



RM. 10 INTERIOR ELEVATION

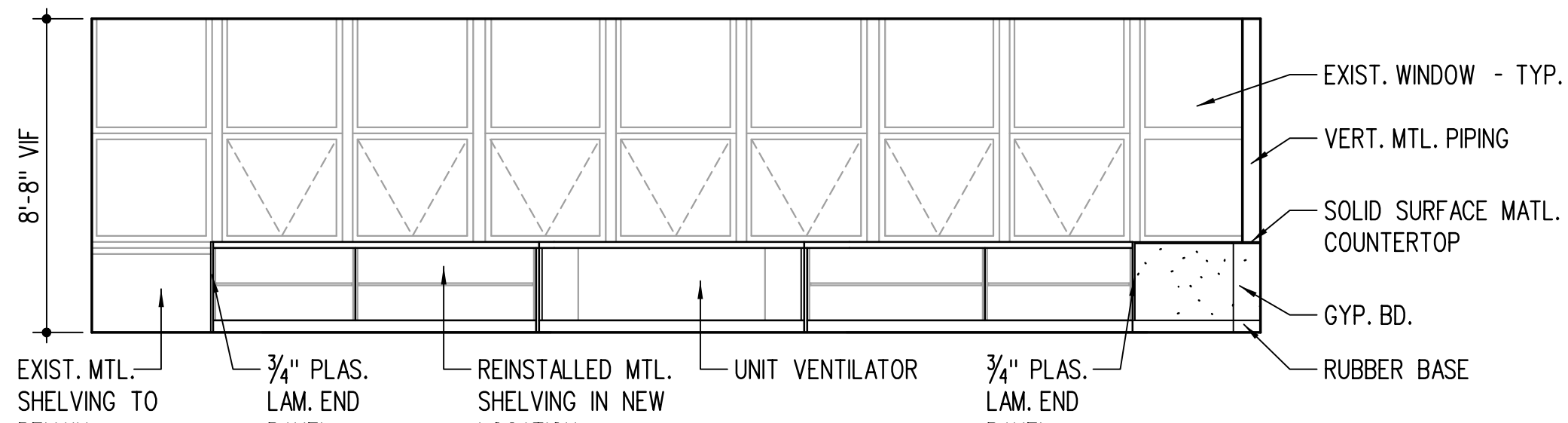
1/4" = 1'-0"

0 1 2 4 8 16



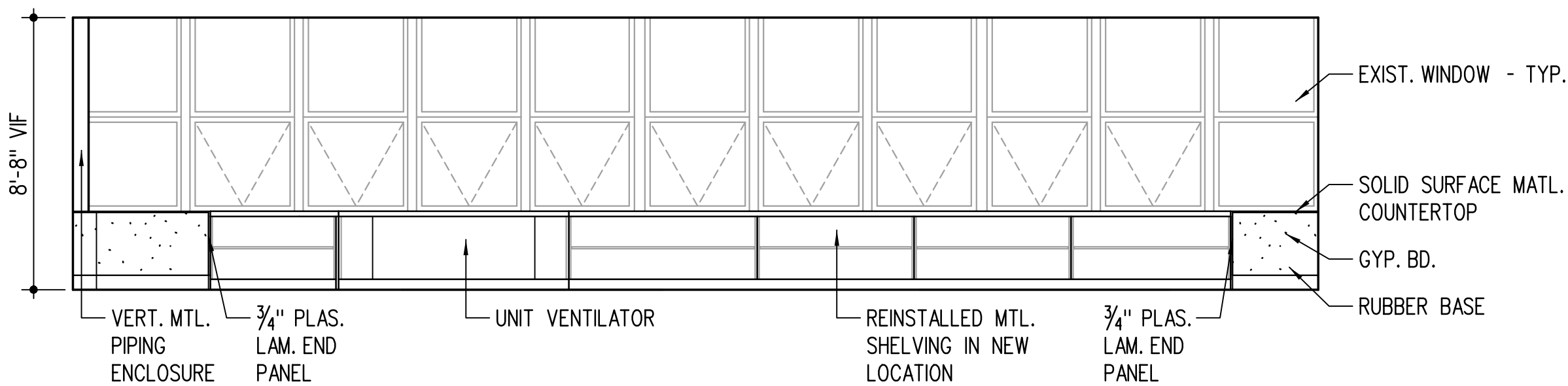
RM. 4 INTERIOR ELEVATION (SIM. AT RM. 1, SIM. OPP. HAND RM. 2 & RM. 3)

1/4" = 1'-0"



RM. 9 INTERIOR ELEVATION (SIM. AT RM. 6, RM. 7, & RM. 8)

1/4" = 1'-0"



RM. 5 INTERIOR ELEVATION

1/4" = 1'-0"

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ARCHITECTS
4040 Helene Avenue
Naperville, Illinois 60564

ADDENDUM NO. 3
November 24, 2021

2022 MECHANICAL WORK
EISENHOWER ACADEMY
JOLIET, ILLINOIS
FOR
JOLIET PUBLIC SCHOOLS DISTRICT 86
JOLIET, WILL COUNTY, ILLINOIS
PROJECT NOS. 6-1621-40

This addendum shall be considered as part of the Contract Documents or Bidding Documents, as applicable, and shall govern insofar as it changes, deletes from, or adds to the original Contract Documents or Bidding Documents, as applicable.

The Contract Documents or Bidding Documents as applicable shall be modified to incorporate the following changes:

I. DRAWINGS

A. Sheet S-1

1. DELETE Sheet S-1 in its entirety and REPLACE with revised S-1 dated 11-24-2021 included as part of this Addendum.

B. Sheet M-1.1 (Addendum No. 2 dated 11-23-2021)

1. To CLARIFY Sheet M-1.1 was replaced with Sheet M-1.1 dated 11-23-2021 and not replaced with Sheet M-2.1 as indicated.

C. Sheet M-1.3 (Addendum No. 2 dated 11-23-2021)

1. Hot Water/Chilled Water 2-Pipe System Piping Diagram; REVISE triple duty valve tag at HCP-1E to "TD-3" in lieu of "TD-5".
2. Hot Water/Chilled Water 2-Pipe System Piping Diagram; REVISE triple duty valve tag at HCP-2E to "TD-4" in lieu of "TD-6".

END OF ADDENDUM NO. 3

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GENERAL FRAMING NOTES:

1. DESIGN LOADS CALCULATED IN ACCORDANCE WITH THE PROVISIONS AND REQUIREMENTS OF ASCE/SEI 7-10 AS REFERENCED BY THE 2015 INTERNATIONAL BUILDING CODE.
2. DESIGN LOADS
- DEAD:
- EXISTING ROOF (ASSUMED) 25 PSF
- EXISTING FLOOR (ASSUMED) 71 PSF
- LIVE:
- EXISTING ROOF (ASSUMED) 25 PSF
- EXISTING FLOOR (ASSUMED) 125 PSF
- ROOF SNOW:
- P_s - GROUND SNOW LOAD 25 PSF
- C_e - SNOW EXPOSURE FACTOR 1.00
- I_s - SNOW IMPORTANCE FACTOR 1.10
- C_t - THERMAL FACTOR 1.00 PSF
- P_r - FLAT-ROOF SNOW LOAD (CODE) 22 PSF
- WIND:
- V - BASIC DESIGN WIND SPEED 120 MPH
- RISK CATEGORY II
- WIND EXPOSURE C
- INTERNAL PRESSURE COEFFICIENT 0.18 ±
- COMPONENTS & CLADDING PER SPEC.
- BASE SHEAR EXISTING BUILDING
- SEISMIC:
- RISK CATEGORY III
- I_e - SEISMIC IMPORTANCE FACTOR 1.25
- S_s - MAPPED SPECTRAL ACCELERATION 0.157 g
- S₁ - MAPPED SPECTRAL ACCELERATION 0.069 g
- SITE CLASS D
- S_{MS} - DESIGN SPECTRAL ACCELERATION 0.168 g
- S_{MS} - DESIGN SPECTRAL ACCELERATION 0.111 g
- SEISMIC DESIGN CATEGORY B
- SEISMIC-FORCE-RESISTING SYSTEM EXISTING BUILDING
3. NOTED ELEVATIONS REFERENCE ELEVATION +0'-0" - TOP OF EXISTING CONCRETE FLOOR SLAB, UNLESS OTHERWISE NOTED.

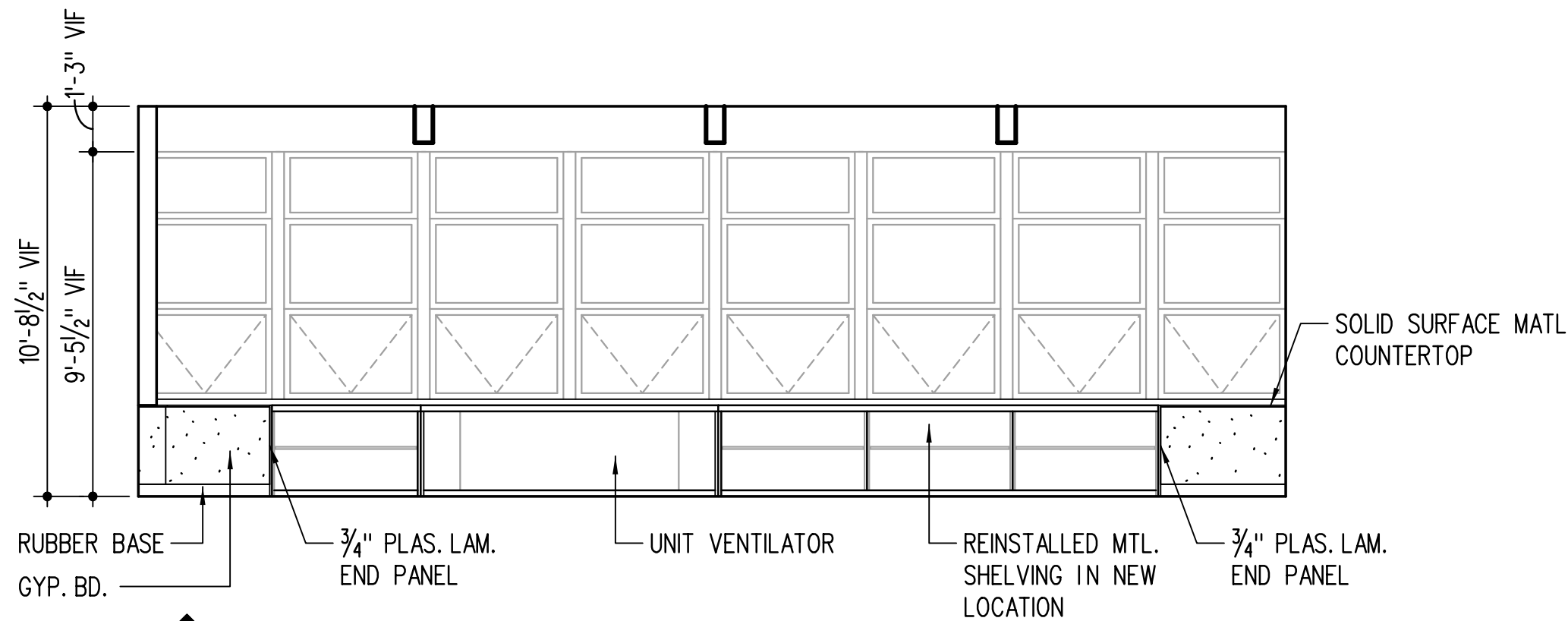
4. ROOF FRAMING MEMBERS INCLUDING BEAMS, AND STEEL JOISTS SHALL BE DESIGNED TO SUPPORT ADDITIONAL LOADING FROM SUPERIMPOSED PLUMBING, FIRE PROTECTION, MECHANICAL, AND PLUMBING SYSTEMS AND EQUIPMENT INCLUDING SPRINKLER PIPING AND MECHANICAL COMPONENTS, DUCTWORK, AND PIPING.
5. COORDINATE EXACT LOADS AND LOCATIONS WITH PLUMBING, FIRE PROTECTION, MECHANICAL, AND ELECTRICAL DRAWINGS AND WITH MANUFACTURERS OF SYSTEMS AND EQUIPMENT SUPPLIED.
6. PROVIDE LINTELS, HEADERS, AND ROOF OPENING FRAMES FOR OPENINGS NOT SHOWN ON PLANS BUT REQUIRED FOR THE COMPLETION OF THE WORK AND THE PROPER INSTALLATION OF DUCTWORK AND MECHANICAL COMPONENTS. CONTRACTOR TO COORDINATE WITH TRADES.
7. CONNECTIONS SHALL BE BOLTED OR WELDED AND SHALL BE DESIGNED FOR THE END REACTIONS INDICATED ON PLANS, OR IF NOT INDICATED, SHALL BE DESIGNED TO DEVELOP 60% OF THE TABULATED ALLOWABLE UNIFORM LOAD TABULATED IN THE AMERICAN INSTITUTE OF STEEL CONSTRUCTION "MANUAL OF STEEL CONSTRUCTION", UNLESS OTHERWISE NOTED.
8. VISUALLY EXPOSED WELDED CONNECTIONS SHALL BE GROUND SMOOTH. EXTERIOR WELDED CONNECTIONS SHALL BE WEATHERTIGHT.
9. THE CONTRACTOR SHALL VERIFY IN FIELD, THE LOCATION, SIZE AND EXTENT OF EXISTING FRAMING. APPARENT DISCREPANCIES SHALL BE FORWARDED TO THE ARCHITECT DURING BIDDING FOR REVIEW.
10. THE CONTRACTOR SHALL DETERMINE IN FIELD, THE EXTENT OF EXISTING CONSTRUCTION, MECHANICAL, ELECTRICAL, PLUMBING, AND STRUCTURAL ITEMS TO BE REMOVED TO ACCOMMODATE THE INSTALLATION OF NEW STRUCTURAL MEMBERS. THESE ITEMS TO BE REMOVED INCLUDE BUT ARE NOT NECESSARILY LIMITED TO CEILING TILES, GRIDS, SOFFITS, FINISHES, PIPING, CONDUIT, LIGHTING FIXTURES, DUCTWORK, EQUIPMENT, BRIDGING, BRACING, ACCESSORY FRAMES, ETC. AFTER NEW STRUCTURAL MEMBER INSTALLATION, CONTRACTOR SHALL REINSTALL, REPLACE, AND/OR REROUTE REMOVED ITEMS AND PATCH TO MATCH ADJACENT EXISTING UNDISTURBED AREAS - TYP.
11. REFER TO ARCHITECTURAL DRAWINGS FOR ADDITIONAL STRUCTURAL INFORMATION INCLUDING MISCELLANEOUS ANGLES, CLIPS, BRACES, STRUTS, PLATE GUSSETS, ETC.

GENERAL LINTEL AND HEADER NOTES:

1. PROVIDE LINTELS FOR OPENINGS, MECHANICAL RECESSES, OPENINGS IN MASONRY WALLS FOR MECHANICAL DUCTWORK, OTHER REQUIRED OPENINGS IN MASONRY WALLS AND OTHER LOCATIONS REQUIRED TO FACILITATE THE WORK, WHETHER SHOWN ON THE DRAWINGS OR NOT.
2. LINTEL AND BEAM BEARING, UNLESS OTHERWISE NOTED, FOR OPENINGS UP TO 4'-0" WIDE, 4" BEARING ABOVE 4'-0" AND UP TO 10'-0", 8" BEARING ABOVE 10'-0", 12" BEARING. MAXIMUM ALLOWABLE BEARING PRESSURE FOR MASONRY TO BE 150 PSI.
3. PROVIDE HEADERS FOR OPENINGS, MECHANICAL RECESSES, OPENINGS IN STUD WALLS FOR MECHANICAL DUCTWORK, OTHER REQUIRED OPENINGS IN STUD WALLS AND OTHER LOCATIONS REQUIRED TO FACILITATE THE WORK, WHETHER SHOWN ON THE DRAWINGS OR NOT.
4. HEADERS SHALL HAVE A MINIMUM BEARING OF 1 JACK STUD WITH 1½" FLANGE, UNLESS OTHERWISE NOTED. ADJACENT KING STUD SHALL BE CONTINUOUS FULL HEIGHT, UNLESS OTHERWISE NOTED.

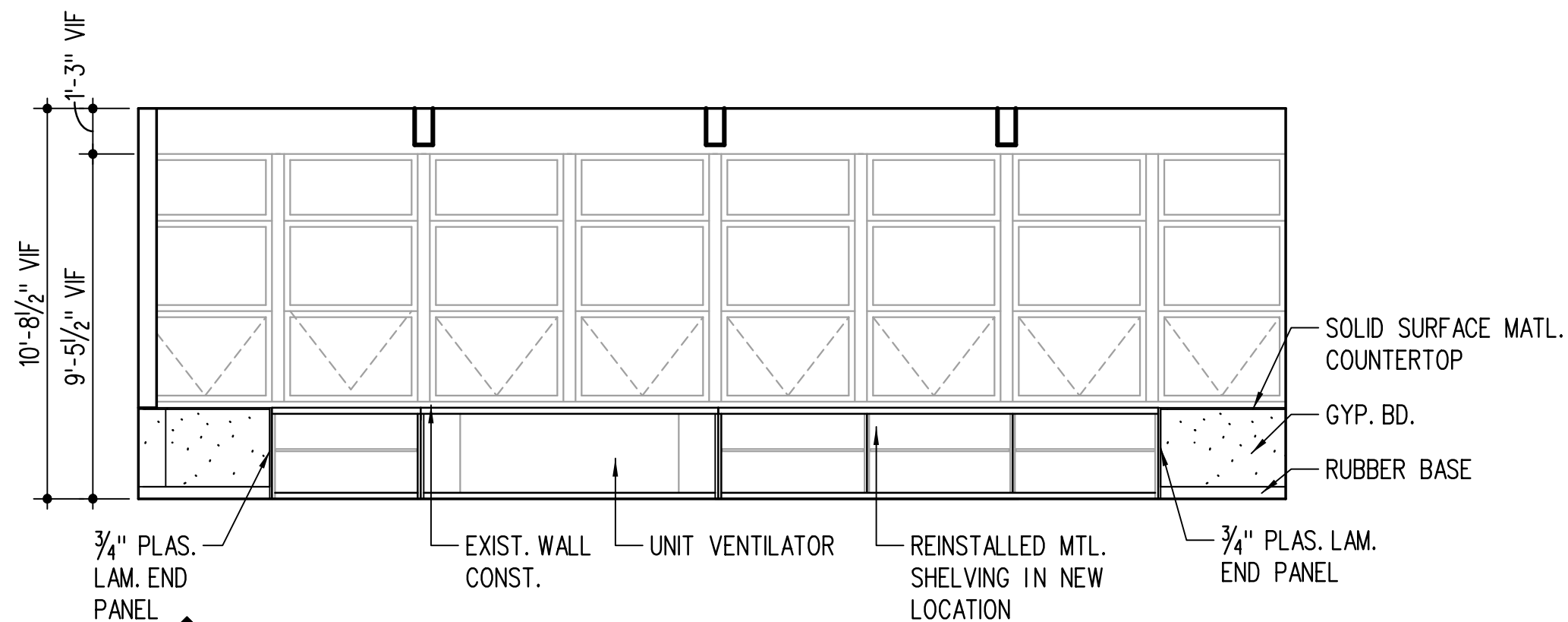
LINTEL SCHEDULE				
MARK	SIZE	PL	SHAPE	REMARKS
L-1	(2) L3/2x3/2x3/2	---	⌒	---
L-2	(3) L3/2x3/2x3/2	---	⌒	NOTE 3
L-3	(3) L5x3/2x3/2	---	⌒	NOTE 2, 3
---	---	---	---	---
NOTE 1. NOT USED.				
NOTE 2. LONG LEG VERTICAL.				
NOTE 3. DOUBLE ANGLES TO BE CENTERED ON THE EXISTING 8" THICK MASONRY WYTHE.				

HEADER SCHEDULE				
MARK	SIZE	QTY	SHAPE	REMARKS
H-1	MTL. FRMG. LAY-IN - TRACKS: 3/8"x33 MIL - STUDS: 3/8"x33 MIL	(1) (1)	⌒	NOTE 1, 2
H-2	(2) MTL. FRMG. LAY-IN - TRACKS: 2/2"x33 MIL - STUDS: 2/2"x33 MIL	(2) (2)	⌒	NOTE 1, 2
---	---	---	---	---
NOTE 1. HEADER TRACKS TO HAVE 1/4" WIDE FLANGE.				
NOTE 2. HEADER STUDS TO HAVE 1½" WIDE FLANGE.				



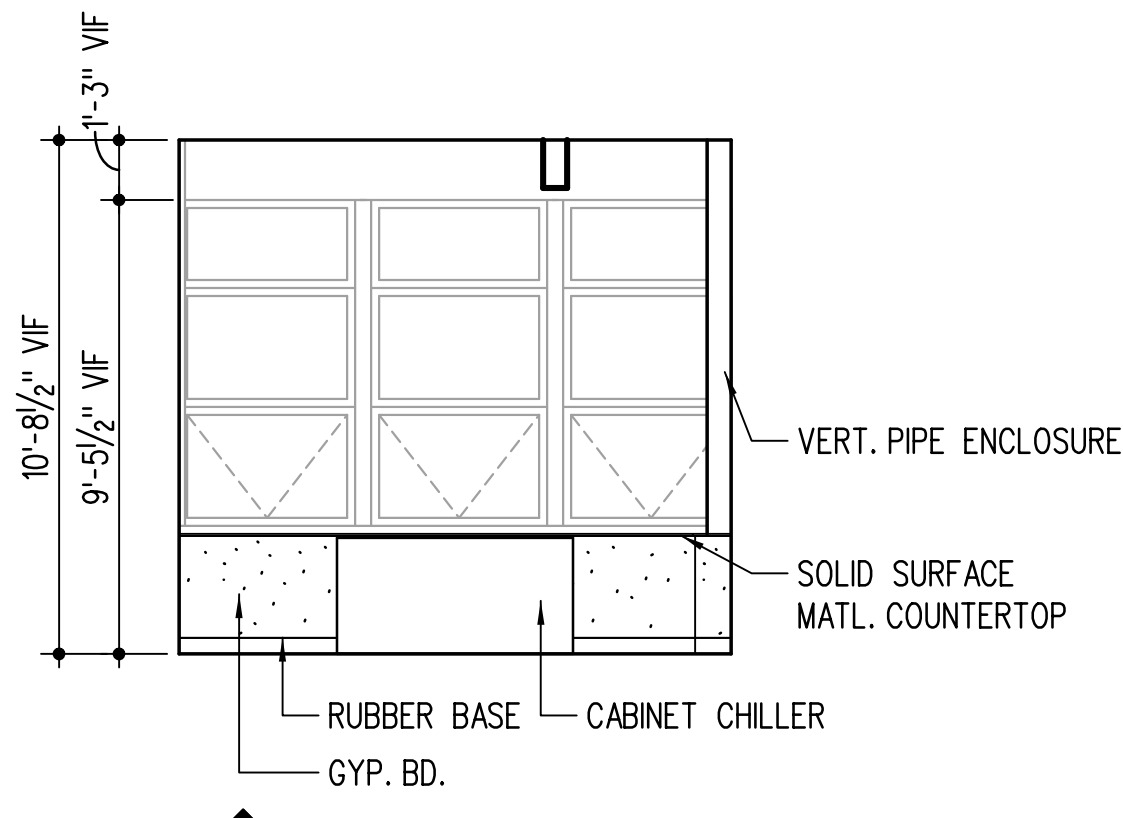
RM. 17 INTERIOR ELEVATION (SIM. AT RM. 16, RM. 20 & RM. 21)

1/4" = 1'-0"
0 1 2 4 8 16



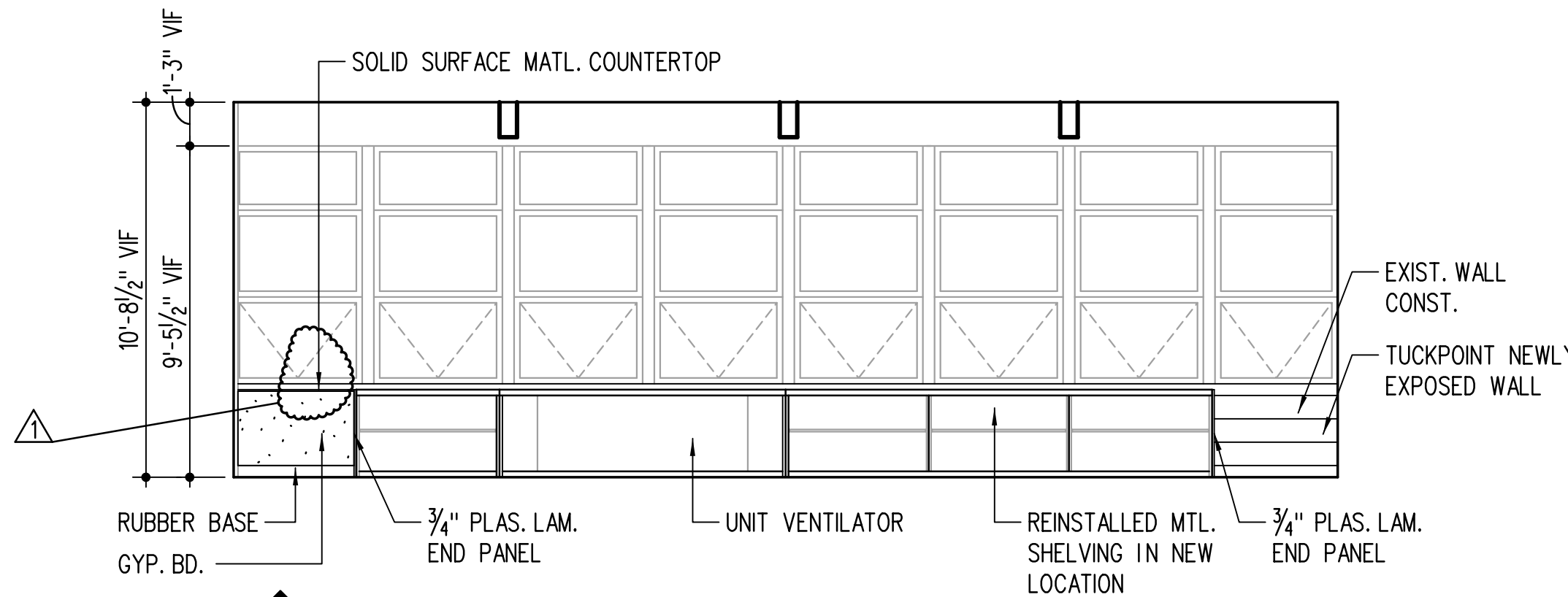
RM. 14 INTERIOR ELEVATION (SIM. OPP. HAND AT RM. 11 & RM. 13, SIM AT RM. 12)

1/4" = 1'-0"



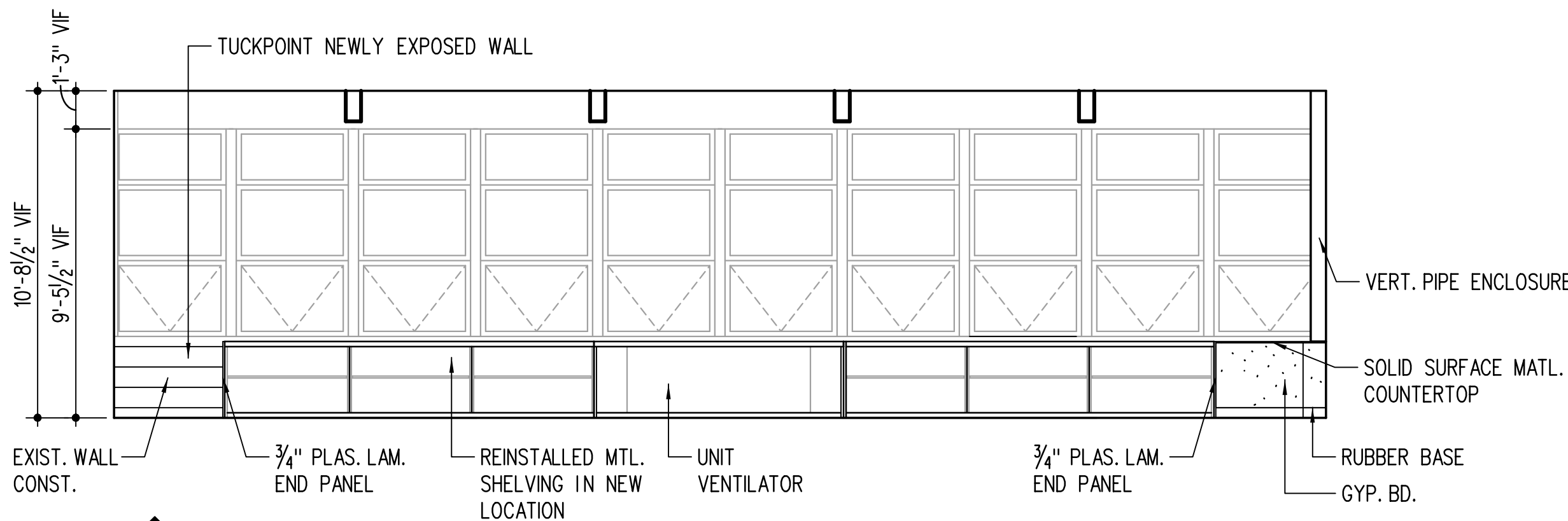
RM. 3 INTERIOR ELEVATION (SIM. AT RM. 2)

1/4" = 1'-0"



RM. 15 INTERIOR ELEVATION (SIM. AT RM. 11, SIM. OPP. HAND AT RM. 22)

1/4" = 1'-0"



RM. 10 INTERIOR ELEVATION

1/4" = 1'-0"

HEALY BENDER PATTON & BEEN
ARCHITECTS
4040 Helene Avenue
Naperville, Illinois 60564

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2022 MECHANICAL WORK
T.E. CULBERTSON ELEMENTARY SCHOOL
JOLIET, ILLINOIS
FOR
JOLIET PUBLIC SCHOOLS DISTRICT 86
JOLIET, WILL COUNTY, ILLINOIS
PROJECT NOS. 6-1621-39

This addendum shall be considered as part of the Contract Documents or Bidding Documents, as applicable, and shall govern insofar as it changes, deletes from, or adds to the original Contract Documents or Bidding Documents, as applicable.

The Contract Documents or Bidding Documents as applicable shall be modified to incorporate the following changes:

I. DRAWINGS

A. Sheet A-3.2

1. First Floor Plan, Rooms 1 and 5; ADD the following note pointing to east exterior wall of Room 1 and the west exterior wall of Room 5:

“Provide metal framing as required to accommodate barometric relief dampers – VIF”

B. Sheet S-1

1. DELETE Sheet S-1 in its entirety and REPLACE with revised S-1 dated 11-24-2021 included as part of this Addendum.

C. Sheet S-2.1

1. Lower Roof/Second Floor Framing Plan, Rooms 1 and 5; REVISE the lintel call out to “L-12” in lieu of “L-6” on east wall of Room 1 and west wall of Room 5.
2. Lower Roof/Second Floor Framing Plan, Room 103; ADD the indication and callout for new steel lintel “L-8” on east wall. Coordinate with mechanical drawings.
3. Lower Roof/Second Floor Framing Plan, Room 101A; ADD the indication and callout for new steel lintel “L-6” on west wall. Coordinate with mechanical drawings.

D. Sheet M-1.2 (Addendum No. 2 dated 11-23-2021)

1. First Floor Mechanical HVAC Plan, Rooms 1 and 5; ADD barometric relief dampers with 52x16 relief opening above ceiling to relief duct going through wall in Rooms 1 and 5.
2. First Floor Mechanical HVAC Plan, Room 114; REVISE the “fire damper (FD)” at north exterior wall to a barometric relief damper.

E. Sheet E-1.1

1. Lower Level Electrical Power Plan, Room 002; ADD the following note pointing to MDP:

“Provide new 100A-3P C.B. (for new Panel Board MP-1) and 400A-3P C.B. (For new chiller, coordinate with mechanical equipment connection schedule) to match existing types, in existing space. Provide engraved name tags for new loads.”

END OF ADDENDUM NO. 3

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GENERAL FOUNDATION NOTES:

1. ASSUME BEARING CAPACITY OF SOIL TO BE 2,000 PSF
2. MINIMUM CONCRETE STRENGTH TO BE 3,500 PSI AT 28 DAYS FOR CONCRETE OTHER THAN FLATWORK.
3. MINIMUM CONCRETE STRENGTH TO BE 4,500 PSI AT 28 DAYS FOR INTERIOR AND EXTERIOR FLATWORK.
4. CONCRETE FLOOR SLAB ON GRADE:
PROVIDE 4" THICK CONCRETE FLOOR SLAB WITH (1) LAYER 6x6 W14xW14 WELDED WIRE FABRIC REINFORCEMENT ON VAPOR BARRIER ON MINIMUM 6" THICK LAYER OF COMPACTED ENGINEERED GRANULAR FILL - TYP., UNLESS OTHERWISE NOTED.
5. TOP OF CONCRETE SLAB ON GRADE ELEVATION = -3'-4" VIF TYP., UNLESS OTHERWISE NOTED.
6. PROVIDE CONTROL JOINTS AT 10'-0" ON CENTER MAXIMUM. PANELS SHALL BE NEARLY SQUARE AND PANEL LENGTH SHALL NOT EXCEED 1.5 TIMES PANEL WIDTH. PROVIDE CONCRETE FLOOR SLAB CONTROL JOINTS AT COLUMN CENTERLINES ALL DIRECTIONS. ISOLATE AT COLUMNS (6" CLEAR MINIMUM FROM BASE PLATE) AND ROTATE 45°.
7. CONTRACTOR SHALL COORDINATE OPENINGS, DEPRESSIONS, SLEEVES, AND MECHANICAL/ELECTRICAL/PLUMBING ITEMS IN CONCRETE WORK WITH TRADES INVOLVED AND COORDINATE PROPER DIMENSIONS OF ITEMS CAST IN OR PASSING THROUGH CONCRETE.
8. UNDERGROUND SEWER, WATER, GAS LINES, ETC. CROSSING CONTINUOUS WALL FOUNDATIONS SHALL NOT PASS THROUGH FOOTINGS. WHERE PIPE OCCURS ABOVE TOP OF FOOTING, SLEEVE THROUGH WALL. WHERE PIPE OCCURS IN FOOTING DEPTH, STEP DOWN FOOTING SUCH THAT PIPE PASSES ABOVE FOOTING. WHEN TOP OF PIPE IS LESS THAN 12" BELOW BOTTOM OF FOOTING, PROVIDE 1" THICK COMPRESSIBLE FOAM INSULATION BELOW FOOTING FOR WIDTH OF TRENCH.
- SEE STEP FOOTING DETAIL 4/S-3.
9. PROVIDE CONCRETE HOUSEKEEPING PADS FOR INTERIOR FLOOR MOUNTED MECHANICAL EQUIPMENT. SEE ARCHITECTURAL FOR EXTERIOR GRADE MOUNTED EQUIPMENT PADS. REFER TO MECHANICAL, ELECTRICAL AND PLUMBING DRAWINGS FOR ADDITIONAL INFORMATION.
10. PROVIDE A WET GRIND SMOOTH FINISH ON EXPOSED VERTICAL CONCRETE SURFACES.
11. PITCH CONCRETE FLOORS TO FLOOR DRAINS AT 1/8" PER FOOT UNLESS OTHERWISE NOTED. COORDINATE WITH FLOOR DRAINS. REFER TO ARCHITECTURAL AND PLUMBING DRAWINGS FOR FLOOR DRAIN LOCATIONS.
12. SEE ARCHITECTURAL, PLUMBING, FIRE PROTECTION, MECHANICAL, AND ELECTRICAL DRAWINGS FOR RELATED CONCRETE FOUNDATION WORK FOR BUILDING, MECHANICAL EQUIPMENT, ELECTRICAL, ETC.

GENERAL FRAMING NOTES:

1. DESIGN LOADS CALCULATED IN ACCORDANCE WITH THE PROVISIONS AND REQUIREMENTS OF ASCE/SEI 7-10 AS REFERENCED BY THE 2015 INTERNATIONAL BUILDING CODE.
2. DESIGN LOADS
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ROOF 30 PSF
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EXISTING ROOF (ASSUMED) 25 PSF
ROOF 30 PSF
ROOF SNOW:
P_s - GROUND SNOW LOAD 25 PSF
C_e - SNOW EXPOSURE FACTOR 1.00
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C_t - THERMAL FACTOR 1.00 PSF
P_r - FLAT-ROOF SNOW LOAD 22 PSF
WIND:
V - BASIC DESIGN WIND SPEED 120 MPH
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WIND EXPOSURE C
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COMPONENTS & CLADDING PER SPEC.
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2. LINTEL AND BEAM BEARING, UNLESS OTHERWISE NOTED, FOR OPENINGS UP TO 4'-0" WIDE, 4" BEARING ABOVE 4'-0" AND UP TO 10'-0", 8" BEARING ABOVE 10'-0", 12" BEARING. MAXIMUM ALLOWABLE BEARING PRESSURE FOR MASONRY TO BE 150 PSI.
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4. HEADERS SHALL HAVE A MINIMUM BEARING OF 1 JACK STUD, UNLESS OTHERWISE NOTED. ADJACENT KING STUD SHALL BE CONTINUOUS FULL HEIGHT, UNLESS OTHERWISE NOTED.

PIER FOOTING SCHEDULE

MARK	DIMENSIONS			REINFORCEMENT		DOWELS
	L	S	D	L	S	
F-4.1	4'-4"	4'-4"	1'-0"	6-#5	6-#5	4-#8
- - -	- - -	- - -	- - -	- - -	- - -	- - -

NOTE 1. REFER TO PIER FOUNDATION AND FOOTING - DETAIL 10 ON SHEET S-3 - FOR ADDITIONAL INFORMATION.

BEARING PLATE SCHEDULE

MARK	SIZE	REMARKS
------	------	---------

BP-1	7"x12"x3/8"	NOTE 1, 2
- - -	- - -	- - -

NOTE 1. BEARING PLATE SHALL BE CENTERED ON THE CONCRETE MASONRY UNIT WYTHE OF THE CAVITY WALL.

NOTE 2. PROVIDE (2) 1/2" DIAMETER x 8" LONG HEADED STUD ANCHORS PER BEARING PLATE - GROUT SOLID.

LINTEL SCHEDULE

MARK	SIZE	PL	SHAPE	REMARKS
L-1	L5x3/2x3/8	- - -	J	NOTE 2, 6
L-2	(2) L3/2x3/2x3/8	- - -	J	NOTE 3
L-3	(3) L3/2x3/2x3/8	3/8" PL	J	NOTE 1, 3
L-4	(3) L3/2x3/2x3/8	- - -	J	NOTE 4
L-5	(3) L3/2x3/2x3/8	3/8" PL	J	NOTE 1, 5
L-6	(3) L5x3/2x3/8	- - -	J	NOTE 2, 3
L-7	(3) L5x3/2x3/8	- - -	J	NOTE 2, 4
L-8	(3) L5x3/2x3/8	3/8" PL	J	NOTE 1, 2, 5
L-9	W8x24	3/8" PL	J	NOTE 1
L-10	W8x24	3/8" PL	J	NOTE 1, 6
L-11	W8x24	3/8" PL	J	NOTE 1, 7
L-12	(3) L5x3/2x3/8	3/8" PL	J	NOTE 1, 2, 3
- - -	- - -	- - -	- - -	- - -

NOTE 1. PLATE WIDTH SHALL BE 1/2" LESS THAN ACTUAL MASONRY WALL THICKNESS UNLESS OTHERWISE NOTED. PLATE SHALL EXTEND THE LENGTH OF THE MASONRY OPENING.

NOTE 2. LONG LEG VERTICAL.

NOTE 3. DOUBLE ANGLES TO BE CENTERED ON THE EXISTING 8" THICK MASONRY WYTHE.

NOTE 4. TRIPLE ANGLES TO BE CENTERED ON THE EXISTING 12" THICK MASONRY WYTHE.

NOTE 5. ONE ANGLE TO BEAR ON THE EXISTING 4" CMU WYTHE. ONE ANGLE TO BEAR ON THE EXISTING 4" SGT WYTHE.

NOTE 6. PROVIDE 8" MINIMUM LINTEL BEARING.

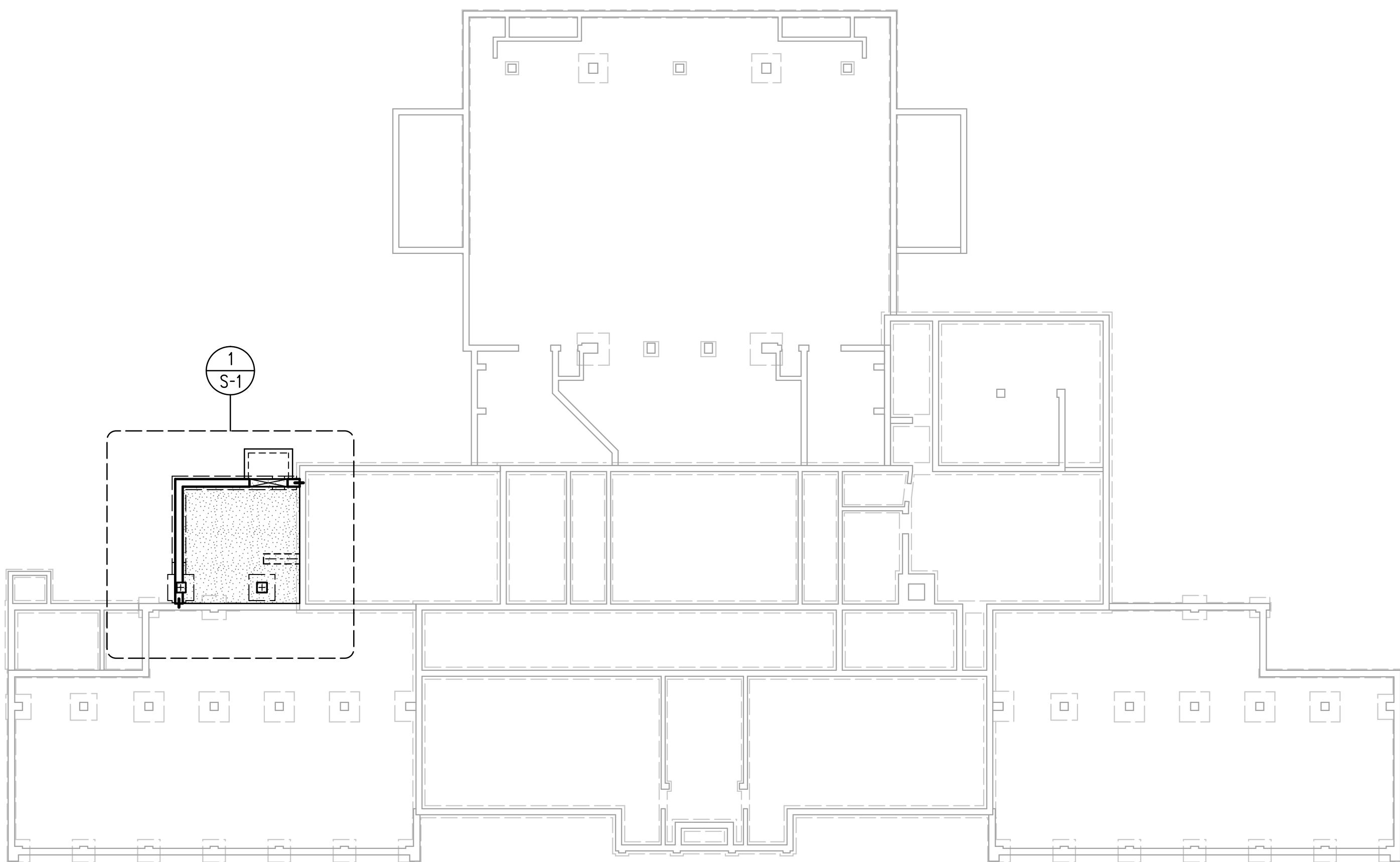
NOTE 7. PROVIDE 12" MINIMUM LINTEL BEARING.

COLUMN SCHEDULE

MARK	SIZE	SHAPE	REMARKS
C-1	HSS 8x8x3/8	□	- - -
- - -	- - -	- - -	- - -

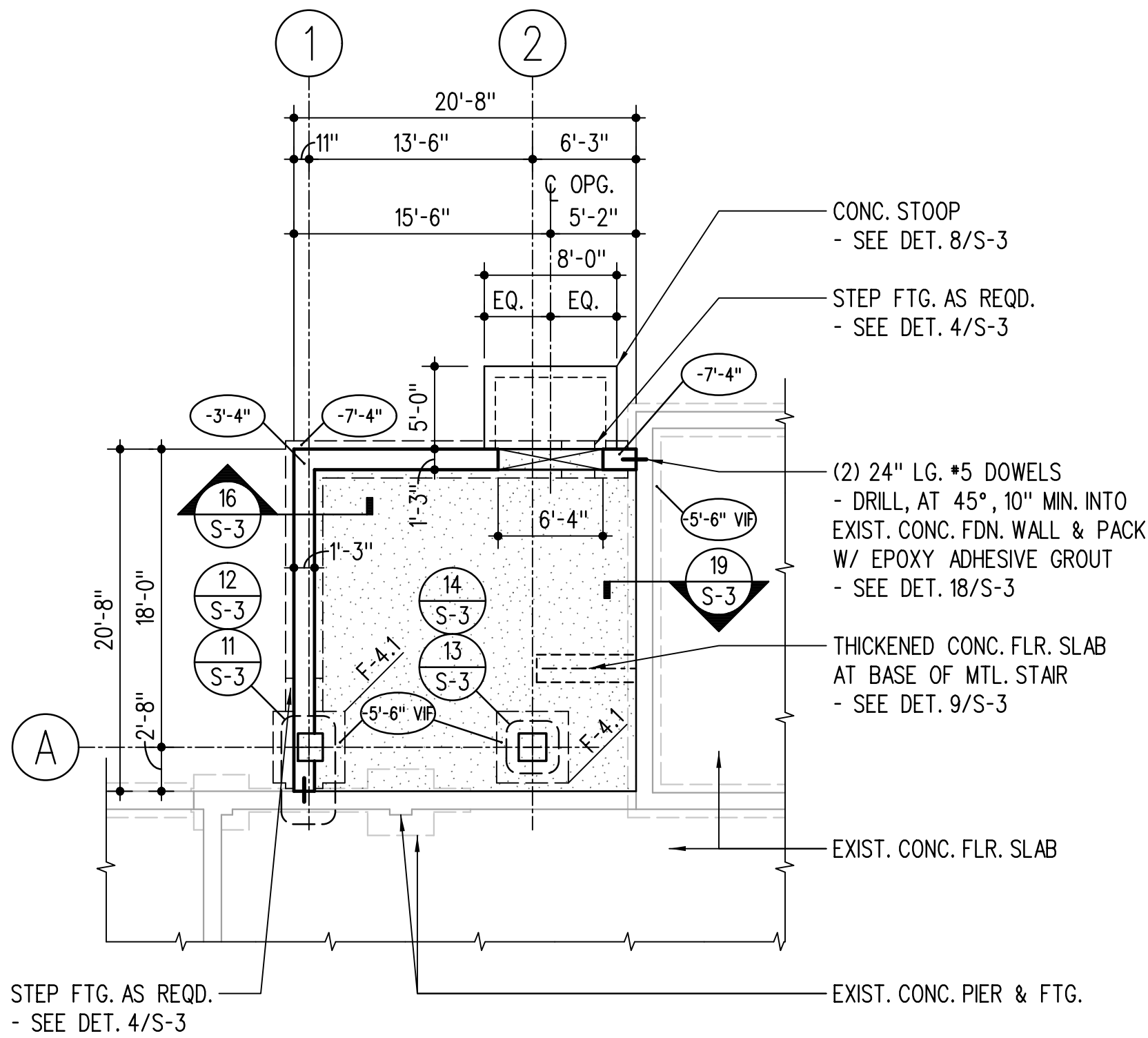
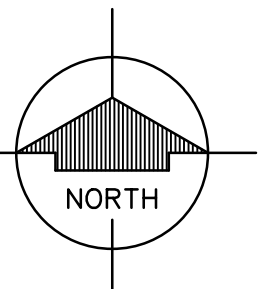
FOUNDATION PLAN LEGEND:

- EXISTING CONCRETE FOUNDATION WALL AND FOOTING.
- NEW CONCRETE FOUNDATION WALL AND FOOTING.
- DOORWAY - DEPRESS TOP OF CONCRETE FOUNDATION WALL 16".
- SEE DETAIL 5/S-3
- CONCRETE FLOOR SLAB ON GRADE.
- TOP OF SLAB ELEVATION = -3'-4" VIF
- TOP OF CONCRETE FOOTING OR FOUNDATION WALL ELEVATION REFERENCED TO ELEVATION +0'-0" - TOP OF EXISTING FIRST FLOOR CONCRETE FLOOR SLAB.



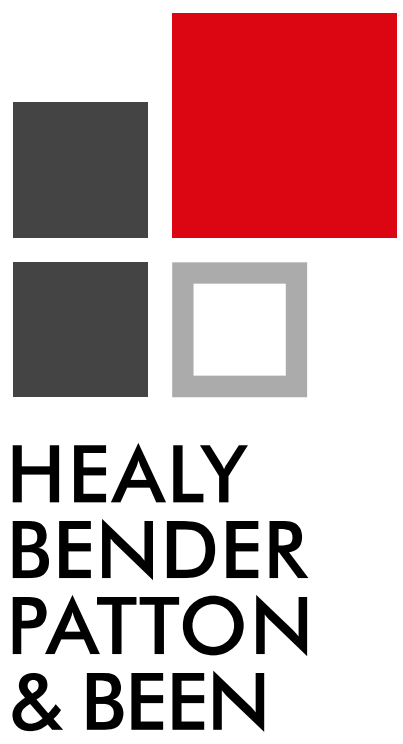
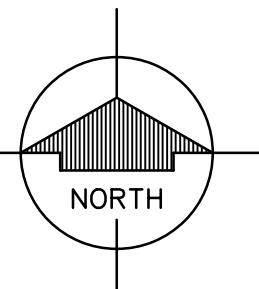
COMPOSITE FOUNDATION PLAN

1/8" = 1'-0"
0 4 8 16 32 48



ENLARGED FOUNDATION PLAN

1/8" = 1'-0"
0 2 4 8 16 24



HEALY
BENDER
PATTON
& BEEN

ARCHITECTS

4040 Helene Avenue
Naperville, IL 60564
T 630.904.4300

www.healybender.com

2022 MECHANICAL WORK
T.E. CULBERTSON ELEMENTARY SCHOOL
FOR
JOLIET, ILLINOIS

JOLIET PUBLIC SCHOOLS DISTRICT 86
JOLIET, WILL COUNTY, ILLINOIS

REVISIONS
NO. DATE DESCRIPTION

6-1621-39

DESIGNED BY
LCB

DATE
11-08-2021

SHEET NO.

S-1

OF 5

GENERAL STRUCTURAL NOTES AND DETAILS
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HEALY BENDER PATTON & BEEN
ARCHITECTS
4040 Helene Avenue
Naperville, Illinois 60564

ADDENDUM NO. 2
November 24, 2021

2022 MECHANICAL WORK
TAFT ELEMENTARY SCHOOL
JOLIET, ILLINOIS
FOR
JOLIET PUBLIC SCHOOLS DISTRICT 86
JOLIET, WILL COUNTY, ILLINOIS
PROJECT NOS. 6-1621-42

This addendum shall be considered as part of the Contract Documents or Bidding Documents, as applicable, and shall govern insofar as it changes, deletes from, or adds to the original Contract Documents or Bidding Documents, as applicable.

The Contract Documents or Bidding Documents as applicable shall be modified to incorporate the following changes:

I. PROJECT MANUAL

A. Section 23 21 13 – HVAC Piping

1. Paragraph 2.05.A.1.a. Low Pressure Steam (Black Steel); DELETE in its entirety.
2. Paragraph 2.05.A.1.b. Condensate Return (Black Schedule 80 Steel); DELETE in its entirety.
3. Paragraph 2.05.1.e. Condenser Water (Black Steel); DELETE in its entirety.
4. Paragraph 2.07.E.; REVISE to “Valves for Chilled Water shall be as listed below:” in lieu of “Valves for Condenser Water shall be as listed below:”.

B. Section 23 82 23 – Unit Ventilators

1. Paragraph 3.01.A.1.; DELETE paragraph in its entirety.

II. DRAWINGS

A. Sheet T-1

1. General Demolition Notes; REVISE note 1. as follows:

“1. Perform demolition work as necessary to accomplish the work including the removal and proper disposal of items which are exposed and not to remain in use, including but not necessarily limited to electrical items, electrical devices, mechanical items, plumbing items, wall construction, ceiling construction, roof construction, etc. Contractor to coordinate exact location of required demolition with existing conditions, mechanical and electrical drawings, etc. - notify Architect of any discrepancies, Typ.”

B. Sheet A-2.2

1. ADD the following box note to Sheet A-2.2:

“Note:

1. Contractor shall not core piping through existing masonry walls within 18”

horizontal (from centerline) or 16" vertical of existing floor and/or roof beam bearing points - VIF."

2. To CLARIFY; existing piping to be capped at floor slab and not below floor slab in existing tunnels.
3. First Floor Demolition Plan – Area A, Room C102; DELETE the note pointing to the existing cabinet heater to remain on the south end of the corridor located on the east wall. To CLARIFY the existing cabinet heater is to be removed in its entirety. Coordinate with mechanical and electrical drawings.
4. First Floor Demolition Plan – Area A, Room C102; ADD the indication and the following note pointing to corridor:
"Sawcut and remove portion of existing PC insulated roof deck, roofing system, etc. whether shown or not to accommodate mechanical work. Refer to mechanical drawings for additional information – VIF,Typ."

C. Sheet A-2.3

1. ADD the following box note to Sheet A-2.3:
"Note:
1. Contractor shall not core piping through existing masonry walls within 18" horizontal (from centerline) or 16" vertical of existing floor and/or roof beam bearing points - VIF."
2. To CLARIFY; existing piping to be capped at floor slab and not below floor slab in existing tunnels.
3. First Floor Demolition Plan – Area B, Rooms 13, 14, 15, 16, and 18; ADD the indication and the following note pointing to rooms:
"Sawcut and remove portion of existing concrete roof deck, roofing system, etc. whether shown or not to accommodate mechanical work. Refer to mechanical drawings for additional information – VIF,Typ."
4. First Floor Demolition Plan – Area B, Rooms T103 and T104; REVISE the demo line to existing to remain at existing wall convectors. To CLARIFY these units are to be abandoned in place, coordinate with mechanical.
5. First Floor Demolition Plan – Area B, Rooms 20 and 30; ADD indication and the following note pointing to the east wall of each room:
"Remove exist. fin tube system in its entirety and cap existing piping at floor slab – Refer to mech. and electrical drawings for additional information – Typ."
6. First Floor Demolition Plan – Area B, Rooms C103 and C104; ADD the following note pointing to existing door frame to be removed:
"Carefully remove existing wood door frame, glazing, etc. in its entirety. Coordinate with existing electrical, data cabling, etc. to remain in operation and provide additional supports as required – VIF."

D. Sheet A-3.2

1. First Floor Plan – Area A, Room C102; ADD the following note pointing to locations of new electric cabinet heaters:
"Infill opening around new electric cabinet heater where existing cabinet heaters were removed with 5/8" abuse resistant gypsum board on 2 1/2" metal framing at 16" OC. Provide necessary metal framing to support new electric cabinet heater. Provide

tear away bead where gypsum board meets existing masonry wall construction and prep and paint gypsum board - VIF, Typ."

E. Sheet A-4.2

1. First Floor Reflected Ceiling Plan – Area A, Rooms T101 and T102; DELETE indication of exposed piping. To CLARIFY piping, condensate, etc. to be run concealed above ceiling. Remove ceiling as required to accommodate the new work.
2. First Floor Reflected Ceiling Plan – Area A, Rooms T101 and T102; to CLARIFY the entire ceiling in these rooms should be prepped and painted.
3. First Floor Reflected Ceiling Plan – Area A, Rooms C101, V101, 34, and 34A; ADD the following note pointing to each room:
"Provide new mechanical diffuser grilles at existing ceiling grid, refer to mechanical drawings for additional information."

F. Sheet A-4.3

1. First Floor Reflected Ceiling Plan – Area B, Rooms T103 and T104; to CLARIFY the entire ceiling in these rooms should be prepped and painted.
2. First Floor Reflected Ceiling Plan, Room 17; ADD the following note pointing to room:
"Properly prep and paint exposed ductwork, refer to mechanical drawings for additional information."
3. First Floor Reflected Ceiling Plan, Rooms C106 and C107; ADD the following note pointing to the west corridor above existing stairs:
"Contractor to coordinate pipe routing at these location with Architect and Owner prior to installation."

G. Sheet A-5.1

1. Roofing Notes At Roof 'A', 'B', 'C', 'D' and 'F'; ADD the following note:
"4. Contractor to provide pipe boots, pipe curbs, equipment curbs for new mechanical equipment work whether shown or not. Coordinate roof work with mechanical and electrical drawings – Typ."
2. Roof Plan – Area A, Roof 'A'; DELETE indication of new roof top equipment in its entirety above Room C102 between Rooms 1 and 2.
3. Roof Plan – Area A, Roof 'B'; ADD gas piping and pipe supports from north/south gas main to new rooftop unit (RT-1T), coordinate with mechanical drawings.

H. Sheet A-5.2

1. Roof Plan – Area B, Roof 'C'; DELETE indication of new roof top equipment in its entirety above Room C103 between Rooms T103 and T104. DELETE indication of new roof top equipment in its entirety above Room C104 between Rooms 17B and 18.
2. Roof Plan – Area B, Roof 'C'; REVISE the note pointing to RTU-3F as follows:
"New mechanical equipment on new roof curb – See detail 1/A-5.1 – Provide 30" walkway area around equip. – Refer to structural and mechanical drawings for additional information – Typ., UON."
3. Roof Plan – Area B, Roof 'F'; DELETE indication of new roof top equipment in its entirety above Room C105 between Rooms 23 and 24.

I. Sheet S-1

1. DELETE Sheet S-1 in its entirety and REPLACE with revised Sheet S-1 dated 11-24-2021 included as part of this Addendum.

J. Sheet S-2.1

1. Roof Framing Plan – Area A, Room 35; ADD indication and the following note for new opening between existing bulb tees for new Chiller Piping penetrations:
“Stl. L6x4x5/16, LLH, Fr. welded to existing bulb tees to supt. mech. equip. and curb above – Typ.”

K. Sheet S-2.2

1. Roof Framing Plan – Area B, Room J101; DELETE indication of door tag “J101” in its entirety.
2. Roof Framing Plan – Area B, Room 28; REVISE lintel tag to “L-4” in lieu of “L-1”.

L. Sheet MD-1.1

1. Lower Level Mechanical Demolition Plan, Room 001; DELETE the following note “Remove Ex Boiler” pointing to existing boilers. To CLARIFY existing boilers are to remain.

M. Sheet MD-1.2

1. First Floor Mechanical Demolition Plan – Area A, Room V101; DELETE the following note “Remove Ex Cabinet Heater” and Sheet Note “8” pointing to existing cabinet heater. To CLARIFY the existing cabinet heater cover and existing electrical cabinet heater are to remain.

N. Sheet MD-1.3

1. First Floor Mechanical Demolition Plan – Area B, Room 27; DELETE Sheet Note “3” and REVISE the note pointing to the mechanical equipment to be removed as follows:
“Remove existing fan coil unit and associate abandoned heating piping, condensate piping, thermostat, controls, electrical connections, etc. complete as required, VIF”
2. First Floor Mechanical Demolition Plan – Area B, Room T104; DELETE Sheet Note “6” and REVISE the note pointing to the mechanical equipment as follows:
“Abandon existing convector”

O. Sheet M-1.1

1. Lower Level Mechanical HVAC Plan, Room 001; REVISE the call out tag for electrical unit heater to “EUH-1T” in lieu of “EUH-1”.

P. Sheet M-1.2

1. DELETE Sheet M-1.2 in its entirety and REPLACE with revised Sheet M-1.2 dated 11-24-2021 included as part of this Addendum.

Q. Sheet M-1.3

1. DELETE Sheet M-1.3 in its entirety and REPLACE with revised Sheet M-1.3 dated 11-24-2021 included as part of this Addendum.

R. Sheet M-1.4

1. Roof Mechanical Plan – Area A, Roof 'A'; ADD the following note to RT-4T:
“Provide 18” Ø supply air and return air down”
2. Roof Mechanical Plan – Area A, Roof 'B'; ADD the following note to RT-5T:
“Provide 24x18 supply air down and 32x8 return air down”

S. Sheet M-1.5

1. Roof Mechanical Plan – Area B, Roof 'C'; ADD the following note to RT-3T:
“Provide 24x18 supply air down and 32x8 return air down”
2. Roof Mechanical Plan – Area B, Roof 'C'; REVISE the gas connection note to “RT-3T” in lieu of “RT-1E”.
3. Roof Mechanical Plan – Area B, Roof 'F'; DELETE intake hood “IH-1” from roof in its entirety.
4. Roof Mechanical Plan – Area B, Roof 'E'; REVISE tag at existing rooftop unit to “HX-1T” in lieu of “HB-1E”.

T. Sheet M-2.1

1. DELETE Sheet M-2.1 in its entirety and REPLACE with revised Sheet M-2.1 dated 11-24-2021 included as part of this Addendum.

U. Sheet ED-1.2

1. First Floor Electrical Demolition Plan – Area A, Room V101; DELETE Sheet Note “1” pointing to existing cabinet heater. To CLARIFY the existing cabinet heater cover and existing electrical cabinet heater are to remain.

V. Sheet ED-1.3

1. First Floor Electrical Demolition Plan – Area B, Rooms C103 and C104; ADD the following note pointing to existing door frame to be removed:
“Remove existing door hold open devices - complete as required, VIF”

W. Sheet E-1.1

1. Lower Level Electrical Power Plan, Room 001; REVISE unit heater tag to “EUH-1T” in lieu of “EUH-1”.

X. Sheet E-1.2

1. First Floor Electrical Power Plan – Area A, Room 35; REVISE chiller pump tag to “CP-1T” in lieu of “CP-1”.
2. First Floor Electrical Power Plan – Area A, Room V101; DELETE connection to ECH-1. To CLARIFY the existing electrical cabinet heater and power to remain.

Y. Sheet E-1.3

1. First Floor Electrical Power Plan – Area B, Room 27; ADD the following note pointing to room and ADD Sheet Note “2”:
“Provide thermal switch and junction box connection for new FC-3T. Connect to 20A new dedicated circuit”
2. First Floor Electrical Power Plan – Area B, Room 19; ADD the following note pointing to existing rooftop unit serving room:

“Provide HX-1T connection for rooftop heat exchanger. Provide new carbon monoxide detector in existing rooftop and new thermal switch/junction box connection to serve new unit. Provide 20A/1P connection to one (1) new 20A/1P circuit breaker in existing panel PP-1 – complete as required, VIF”

3. First Floor Electrical Power Plan – Area B, Room 19C; ADD remote test stations for supply and return duct smoke detectors in Room 19C to serve existing Room 19 RTU. ADD supply and return duct smoke detectors in Room 19. Refer to M-1.5 for RTU location.
4. First Floor Electrical Power Plan – Area B, Room 19C; ADD new “EUH-1T” to Room 19C and connect to PP-1. Refer to revised Sheet M-1.3 dated 11-24-2021 included as part of this addendum for additional information.

Z. Sheet E-2.2

1. DELETE Sheet E-2.2 in its entirety and REPLACE with revised Sheet E-2.2 dated 11-24-2021 included as part of this Addendum.

END OF ADDENDUM NO. 2

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GENERAL FRAMING NOTES:

1. DESIGN LOADS CALCULATED IN ACCORDANCE WITH THE PROVISIONS AND REQUIREMENTS OF ASCE/SEI 7-10 AS REFERENCED BY THE 2015 INTERNATIONAL BUILDING CODE.

2. DESIGN LOADS

DEAD:
EXISTING ROOF (ASSUMED) 25 PSF
EXISTING FLOOR (ASSUMED) 71 PSF

LIVE:
EXISTING ROOF (ASSUMED) 25 PSF
EXISTING FLOOR (ASSUMED) 125 PSF

ROOF SNOW:
P_s - GROUND SNOW LOAD 25 PSF
C_e - SNOW EXPOSURE FACTOR 1.00
I_s - SNOW IMPORTANCE FACTOR 1.10
C_t - THERMAL FACTOR 1.00 PSF
P_r - FLAT-ROOF SNOW LOAD (CODE) 22 PSF

WIND:
V - BASIC DESIGN WIND SPEED 120 MPH
RISK CATEGORY III
WIND EXPOSURE C
INTERNAL PRESSURE COEFFICIENT 0.18 ±
COMPONENTS & CLADDING PER SPEC.
BASE SHEAR EXISTING BUILDING

SEISMIC:
RISK CATEGORY III
I_e - SEISMIC IMPORTANCE FACTOR 1.25
S_s - MAPPED SPECTRAL ACCELERATION 0.157 g
S₁ - MAPPED SPECTRAL ACCELERATION 0.069 g
SITE CLASS D
S_{MS} - DESIGN SPECTRAL ACCELERATION 0.168 g
S_{MM} - DESIGN SPECTRAL ACCELERATION 0.111 g
SEISMIC DESIGN CATEGORY B
SEISMIC-FORCE-RESISTING SYSTEM EXISTING BUILDING

3. NOTED ELEVATIONS REFERENCE ELEVATION +0'-0" - TOP OF EXISTING CONCRETE FLOOR SLAB, UNLESS OTHERWISE NOTED.

4. ROOF FRAMING MEMBERS INCLUDING BEAMS, AND STEEL JOISTS SHALL BE DESIGNED TO SUPPORT ADDITIONAL LOADING FROM SUPERIMPOSED PLUMBING, FIRE PROTECTION, MECHANICAL, AND PLUMBING SYSTEMS AND EQUIPMENT INCLUDING SPRINKLER PIPING AND MECHANICAL COMPONENTS, DUCTWORK, AND PIPING.

5. COORDINATE EXACT LOADS AND LOCATIONS WITH PLUMBING, FIRE PROTECTION, MECHANICAL, AND ELECTRICAL DRAWINGS AND WITH MANUFACTURERS OF SYSTEMS AND EQUIPMENT SUPPLIED.

6. PROVIDE LINTELS, HEADERS, AND ROOF OPENING FRAMES FOR OPENINGS NOT SHOWN ON PLANS BUT REQUIRED FOR THE COMPLETION OF THE WORK AND THE PROPER INSTALLATION OF DUCTWORK AND MECHANICAL COMPONENTS. CONTRACTOR TO COORDINATE WITH TRADES.

7. CONNECTIONS SHALL BE BOLTED OR WELDED AND SHALL BE DESIGNED FOR THE END REACTIONS INDICATED ON PLANS, OR IF NOT INDICATED, SHALL BE DESIGNED TO DEVELOP 60% OF THE TABULATED ALLOWABLE UNIFORM LOAD TABULATED IN THE AMERICAN INSTITUTE OF STEEL CONSTRUCTION "MANUAL OF STEEL CONSTRUCTION", UNLESS OTHERWISE NOTED.

8. VISUALLY EXPOSED WELDED CONNECTIONS SHALL BE GROUND SMOOTH. EXTERIOR WELDED CONNECTIONS SHALL BE WEATHERTIGHT.

9. THE CONTRACTOR SHALL VERIFY IN FIELD, THE LOCATION, SIZE AND EXTENT OF EXISTING FRAMING. APPARENT DISCREPANCIES SHALL BE FORWARDED TO THE ARCHITECT DURING BIDDING FOR REVIEW.

10. THE CONTRACTOR SHALL DETERMINE IN FIELD, THE EXTENT OF EXISTING CONSTRUCTION, MECHANICAL, ELECTRICAL, PLUMBING, AND STRUCTURAL ITEMS TO BE REMOVED TO ACCOMMODATE THE INSTALLATION OF NEW STRUCTURAL MEMBERS. THESE ITEMS TO BE REMOVED INCLUDE BUT ARE NOT NECESSARILY LIMITED TO CEILING TILES, GRIDS, SOFFITS, FINISHES, PIPING, CONDUIT, LIGHTING FIXTURES, DUCTWORK, EQUIPMENT, BRIDGING, BRACING, ACCESSORY FRAMES, ETC. AFTER NEW STRUCTURAL MEMBER INSTALLATION CONTRACTOR SHALL REINSTALL, REPLACE, AND/OR REROUTE REMOVED ITEMS AND PATCH TO MATCH ADJACENT EXISTING UNDISTURBED AREAS - TYP.

11. REFER TO ARCHITECTURAL DRAWINGS FOR ADDITIONAL STRUCTURAL INFORMATION INCLUDING MISCELLANEOUS ANGLES, CLIPS, BRACES, STRUTS, PLATE GUSSETS, ETC.

GENERAL LINTEL AND HEADER NOTES:

1. PROVIDE LINTELS FOR OPENINGS, MECHANICAL RECESSES, OPENINGS IN MASONRY WALLS FOR MECHANICAL DUCTWORK, OTHER REQUIRED OPENINGS IN MASONRY WALLS AND OTHER LOCATIONS REQUIRED TO FACILITATE THE WORK, WHETHER SHOWN ON THE DRAWINGS OR NOT.

2. LINTEL AND BEAM BEARING, UNLESS OTHERWISE NOTED, FOR OPENINGS UP TO 4'-0" WIDE, 4" BEARING ABOVE 4'-0" AND UP TO 10'-0", 8" BEARING ABOVE 10'-0", 12" BEARING. MAXIMUM ALLOWABLE BEARING PRESSURE FOR MASONRY TO BE 150 PSI.

3. PROVIDE HEADERS FOR OPENINGS, MECHANICAL RECESSES, OPENINGS IN STUD WALLS FOR MECHANICAL DUCTWORK, OTHER REQUIRED OPENINGS IN STUD WALLS AND OTHER LOCATIONS REQUIRED TO FACILITATE THE WORK, WHETHER SHOWN ON THE DRAWINGS OR NOT.

4. HEADERS SHALL HAVE A MINIMUM BEARING OF 1 JACK STUD WITH 1 5/8" FLANGE, UNLESS OTHERWISE NOTED. ADJACENT KING STUD SHALL BE CONTINUOUS FULL HEIGHT, UNLESS OTHERWISE NOTED.

LINTEL SCHEDULE

MARK	SIZE	PL	SHAPE	REMARKS
L-1	(2) L3/2x3/2x5/8	---	⌒	---
L-2	(3) L3/2x3/2x5/8	---	⌒	NOTE 3
L-3	(3) L3/2x3/2x5/8	5/8" PL	⌒	NOTE 1, 4
L-4	(2) L3/2x3/2x5/8	5/8" PL	⌒	NOTE 1, 5
L-5	(3) L5x3/2x5/8	---	⌒	NOTE 2, 3
L-6	(3) L5x3/2x5/8	5/8" PL	⌒	NOTE 1, 2, 4
L-7	(2) L5x3/2x5/8	5/8" PL	⌒	NOTE 1, 2, 5
---	---	---	---	---

NOTE 1. PLATE WIDTH SHALL BE 1/2" LESS THAN ACTUAL MASONRY WALL THICKNESS UNLESS OTHERWISE NOTED. PLATE SHALL EXTEND THE LENGTH OF THE MASONRY OPENING.

NOTE 2. LONG LEG VERTICAL.

NOTE 3. DOUBLE ANGLES TO BE CENTERED ON THE EXISTING 8" THICK MASONRY WYTHE.

NOTE 4. ONE ANGLE TO BEAR ON THE EXISTING 4" CMU WYTHE. ONE ANGLE TO BEAR ON THE EXISTING 4" SGT WYTHE.

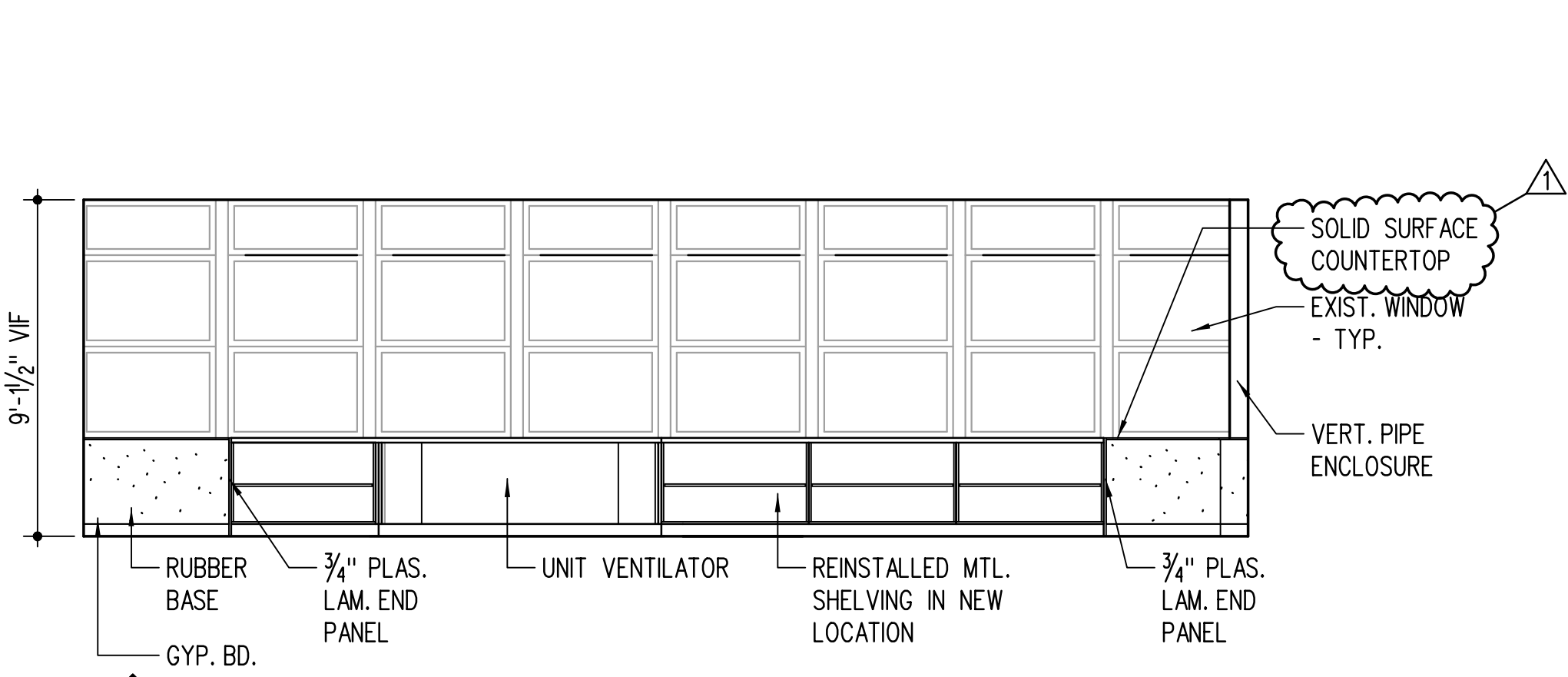
NOTE 5. ONE ANGLE TO BEAR ON THE EXISTING 4" CMU WYTHE. ONE ANGLE TO BEAR ON THE EXISTING 4" BRICK WYTHE.

HEADER SCHEDULE

MARK	SIZE	QTY	SHAPE	REMARKS
H-1	MTL. FRMG. LAY-IN - TRACKS: 3 5/8"x33 MIL - STUDS: 3 5/8"x33 MIL	(1) (1)	⌒	NOTE 1, 2
H-2	(2) MTL. FRMG. LAY-IN - TRACKS: 2 1/2"x33 MIL - STUDS: 2 1/2"x33 MIL	(2) (2)	⌒	NOTE 1, 2
---	---	---	---	---

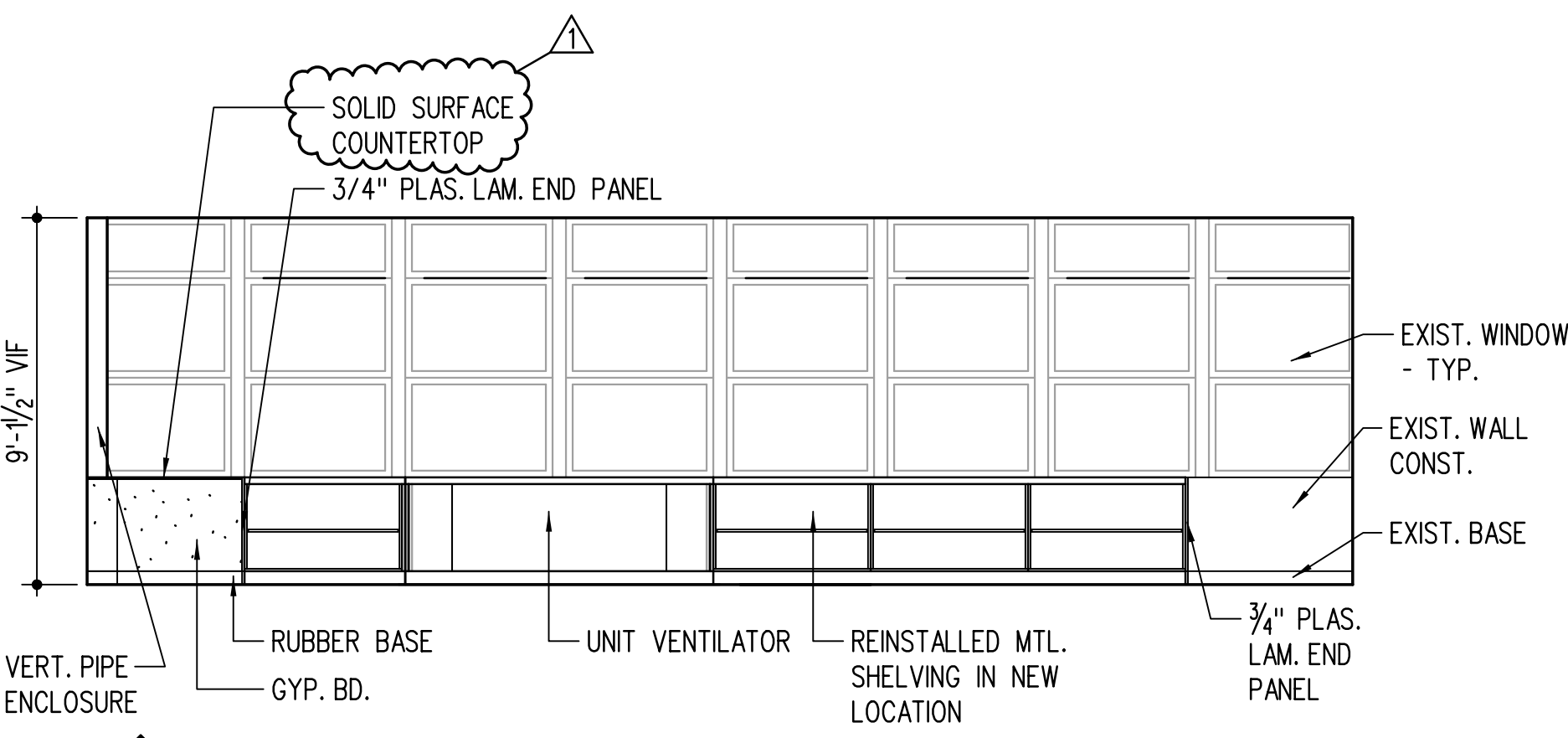
NOTE 1. HEADER TRACKS TO HAVE 1/4" WIDE FLANGE.

NOTE 2. HEADER STUDS TO HAVE 1 5/8" WIDE FLANGE.



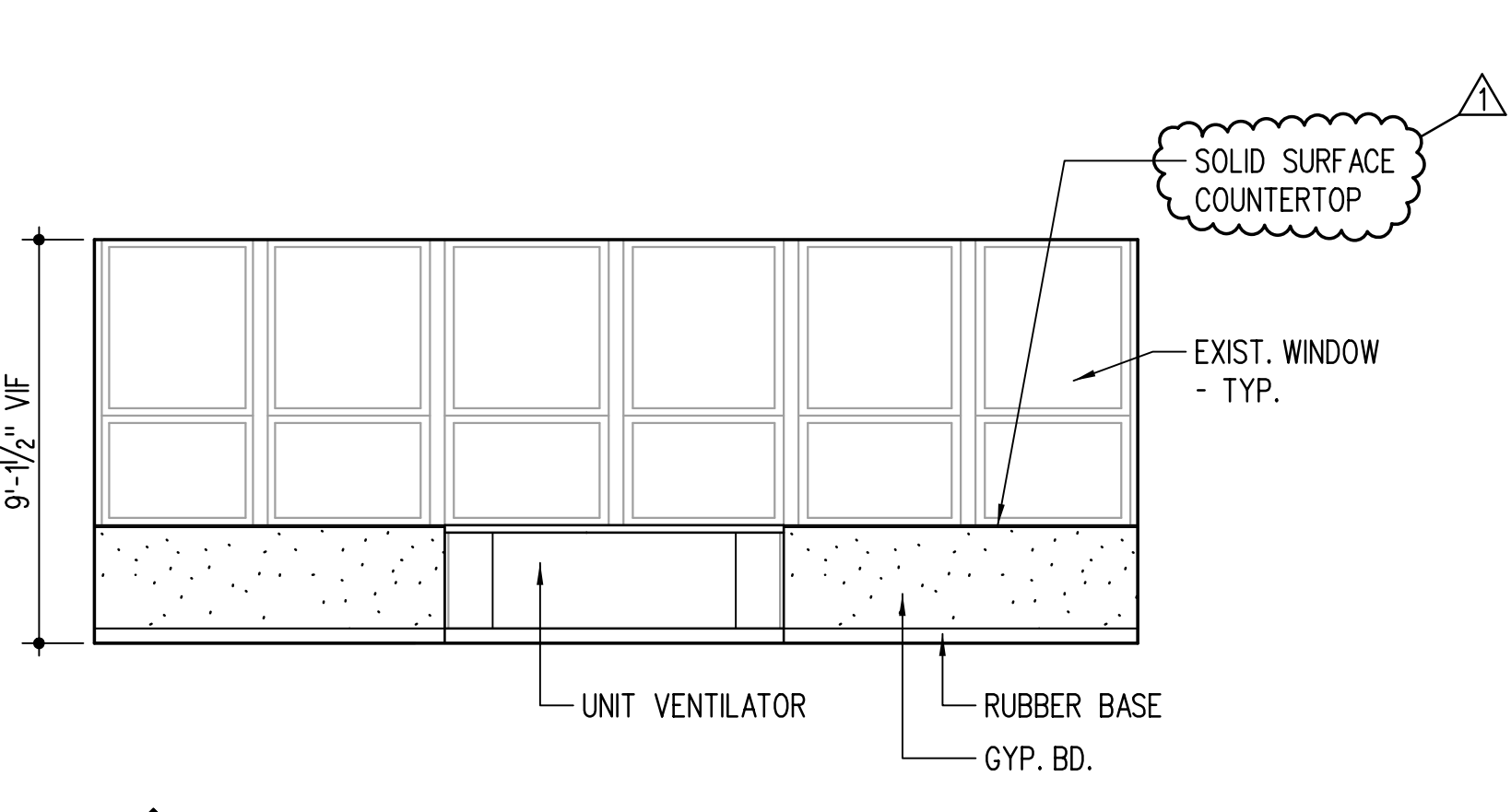
RM. 1 INTERIOR ELEVATION (SIM. AT RM. 5, RM. 7, RM. 9, & RM. 11)
(SIM. OPP. HAND AT RM. 2, RM. 6, RM. 10, & RM. 12)

1/4" = 1'-0"
0 1 2 4 8 16



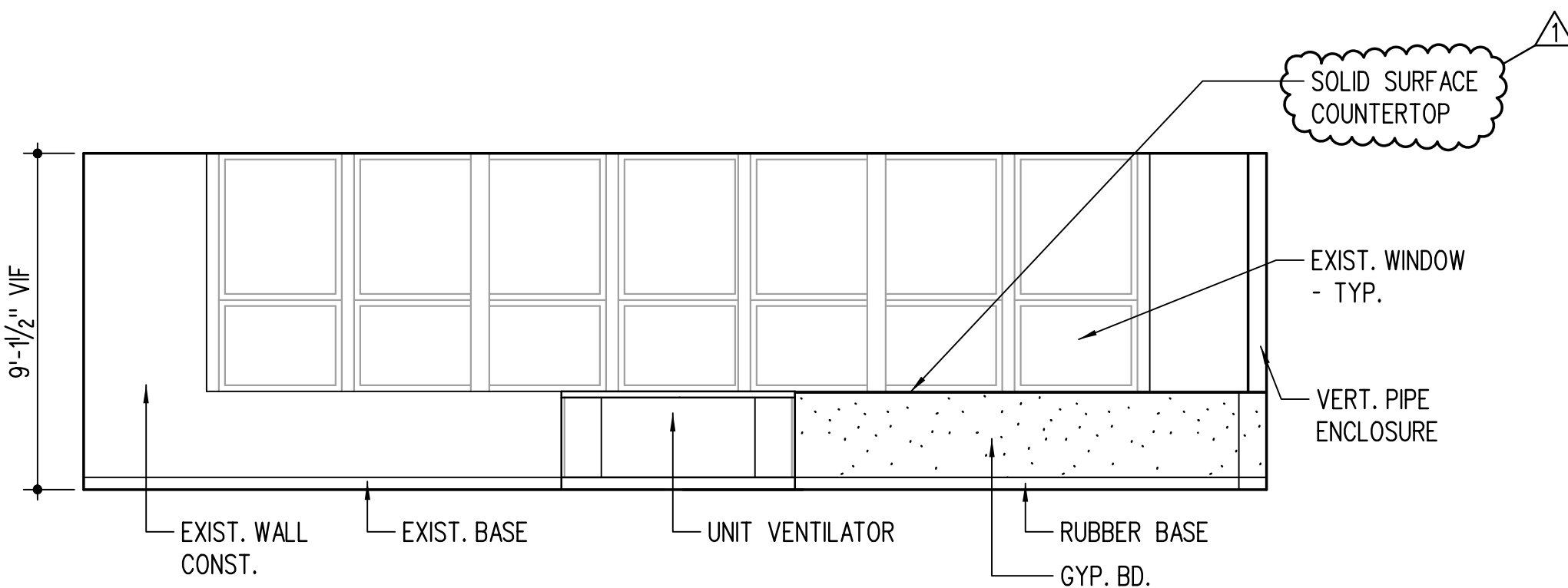
RM. 4 INTERIOR ELEVATION (SIM. OPP. HAND AT RM. 3)

1/4" = 1'-0"



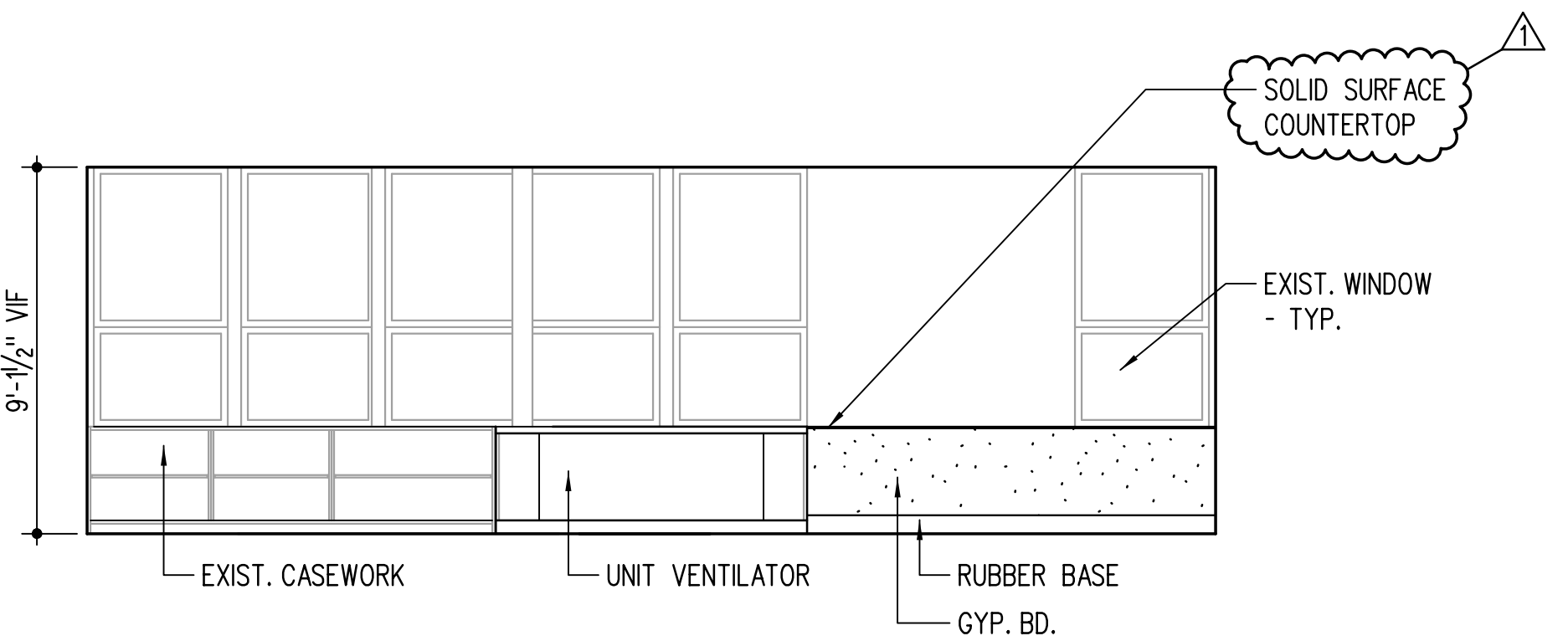
RM. 8 INTERIOR ELEVATION

1/4" = 1'-0"



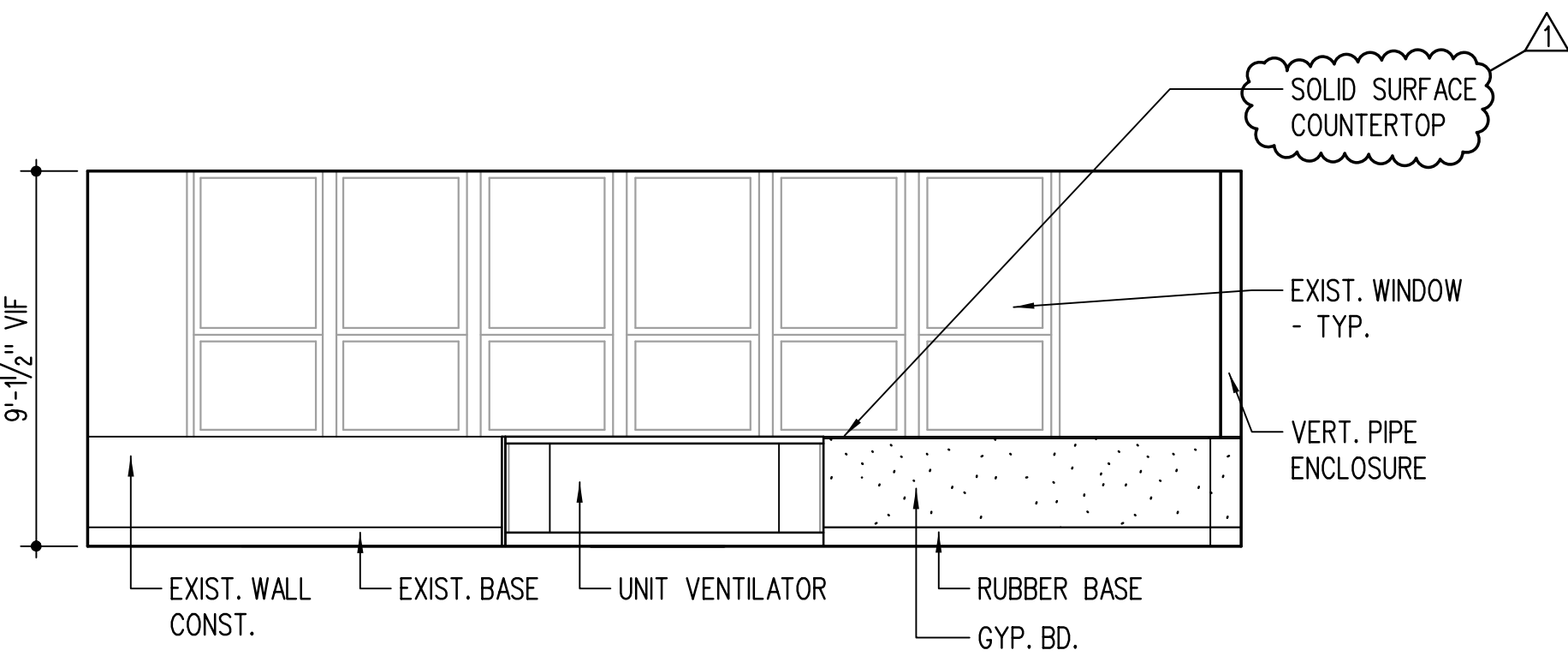
RM. 14 INTERIOR ELEVATION (SIM. AT RM. 16, RM. 18, & RM. 22)

1/4" = 1'-0"



RM. 13 INTERIOR ELEVATION (SIM. OPP. HAND AT RM. 15)

1/4" = 1'-0"



RM. 23 INTERIOR ELEVATION (SIM. AT RM. 24, SIM. OPP. HAND AT RM. 25 & RM. 26)

1/4" = 1'-0"

REVISIONS	DATE	DESCRIPTION	ADDENDUM #
1	11-24-2021		

PROJECT NO.
6-1621-42

DESIGNED BY
LCB

CHECKED BY
LCB

DATE
11-08-2021

SHEET NO.

S-1

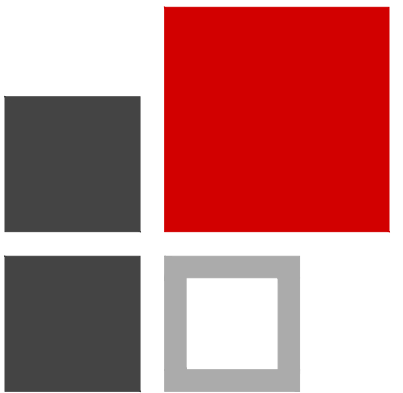
OF 3

SHEET NOTES

1. NEW LOCATION OF EXISTING SHELVEYING UNITS TO BE 6" FROM EXISTING WALL TO ROUTE NEW HOT/CILLED WATER PIPING BEHIND EXISTING SHELVEYING UNITS. SEE ARCHITECTURAL PLANS FOR NEW TOP FILLER PIECE FROM SHELVEYING TO WALL.
2. PROVIDE SHEET METAL FILLER PIECE AT END OF SHELVEYING UNITS TO WALL. VERIFY EXACT DIMENSIONS IN FIELD. FILLER PIECE TO MATCH SHELVEYING UNIT COLOR AND FINISH.
3. EXTEND CONDENSATE PIPING FROM UNIT THRU WALL. TERMINATE WITH 45 DEGREE ELBOW DOWN TO GRADE. SLEEVE AND SEAL PIPE THROUGH WALL. PENETRATION WEATHERTIGHT.
4. MODIFY EXISTING WALL OPENING FOR NEW OUTSIDE AIR INTAKE LOUVER. COORDINATE OUTSIDE AIR INTAKE LOUVER WITH INSTALLATION OF NEW UNIT VENTILATOR COMPLETE AS REQUIRED.

ROOM INDEX

FIRST FLOOR			
1	CLASSROOM	23	CLASSROOM
2	CLASSROOM	24	CLASSROOM
3	CLASSROOM	25	CLASSROOM
4	CLASSROOM	26	CLASSROOM
5	CLASSROOM	27	STORAGE
6	CLASSROOM	27A	STORAGE
7	CLASSROOM	28	SENSORY ROOM
8	TEACHER RESOURCE	30	CONFERENCE
9	CLASSROOM	30A	STORAGE
10	CLASSROOM	30B	TOILET
11	CLASSROOM	31	STORAGE
12	CLASSROOM	32	STORAGE
13	LOUNGE	33	STORAGE
13A	TOILET	34	MAN OFFICE
13B	STORAGE	34A	PRINCIPAL
14	WORK ROOM	35	BOILER ROOM
14A	STORAGE	36	PASSAGE
15	CLASSROOM	36A	TOILET
15A	TOILET	37	STORAGE
16	CLASSROOM	C101	CORRIDOR
17	READING CENTER	C102	CORRIDOR
17A	STORAGE	C103	CORRIDOR
17B	STORAGE	C104	CORRIDOR
17C	STORAGE	C105	CORRIDOR
17D	STORAGE	C106	CORRIDOR
18	CLASSROOM	C107	CORRIDOR
19	MULTI-PURPOSE ROOM	J101	JANITOR
19A	STAGE	J102	JANITOR
19B	BLEACHERS	J103	JANITOR
19C	STORAGE	S101	STAIR
19D	KITCHEN	T101	GIRLS
20	SPEECH	T102	BOYS
20A	STORAGE	T103	GIRLS
20B	TOILET	T104	BOYS
21	OFFICE	V101	VESTIBULE
21A	STORAGE	V102	VESTIBULE
22	CLASSROOM	V103	VESTIBULE

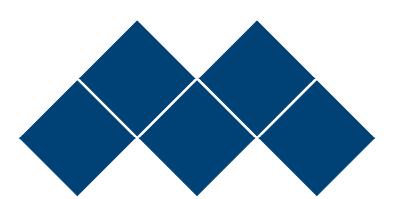


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2022 MECHANICAL WORK
TAFT ELEMENTARY SCHOOL
FOR
JOLIET, ILLINOIS
JOLIET PUBLIC SCHOOLS DISTRICT 86
JOLIET, WILL COUNTY, ILLINOIS

REVISIONS	DATE	DESCRIPTION
1	11-24-2021	ADDENDUM NO. 2

PROJ NO: 6-1621-142
DRAWN BY: GL
DATE: 11-08-2021

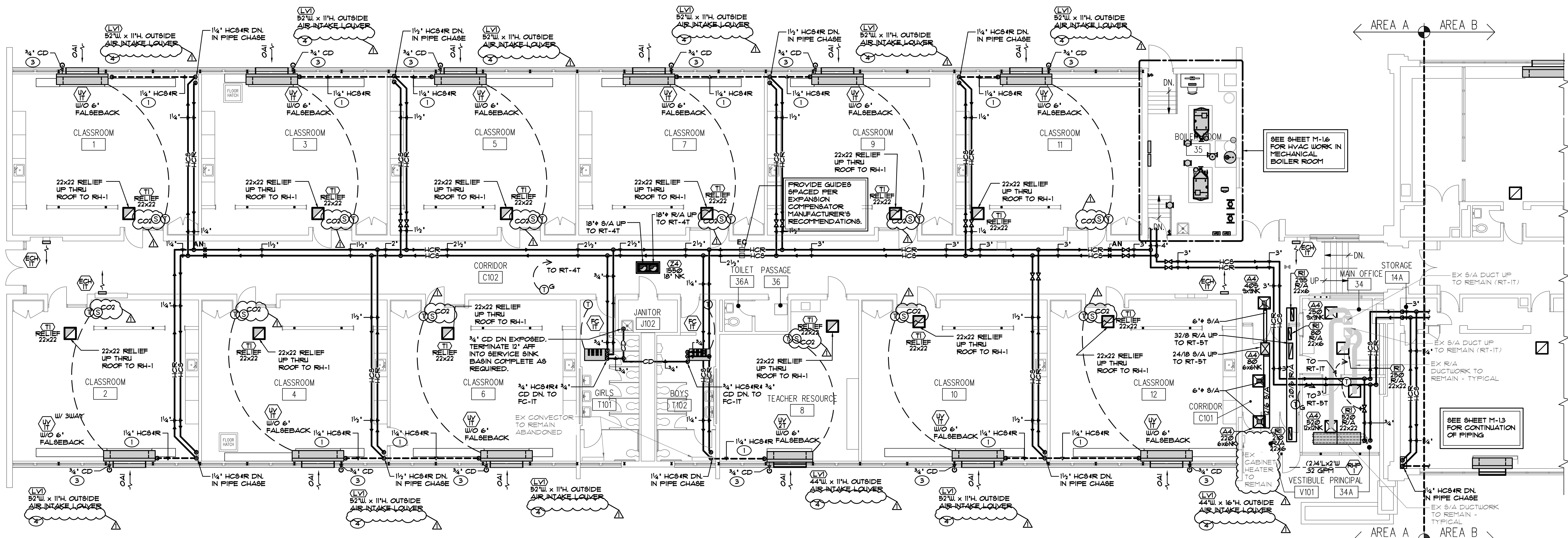
SHEET NO.

M-1.2

OF 9

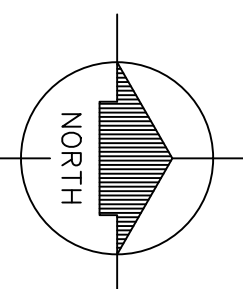
FIRST FLOOR MECHANICAL HVAC PLAN - AREA A

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FIRST FLOOR MECHANICAL HVAC PLAN - AREA A

1/8" = 1'-0"
0 2 4 8 16 24



SHEET NOTES

1. ROUTE NEW HOT/CILLED WATER PIPING IN PIPE CHASE.
2. EXTEND CONDENSATE PIPING FROM UNIT THRU WALL, TERMINATE WITH 45 DEGREE ELBOW DOWN TO GRADE. SLEEVE AND SEAL PIPE THROUGH WALL PENETRATION WEATHERTIGHT.
3. MODIFY EXISTING WALL OPENING FOR NEW OUTSIDE AIR INTAKE LOUVER. COORDINATE OUTSIDE AIR INTAKE LOUVER WITH INSTALLATION OF NEW UNIT VENTILATOR COMPLETE AS REQUIRED.

ROOM INDEX

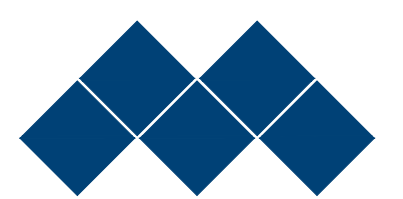
FIRST FLOOR			
1	CLASSROOM	23	CLASSROOM
2	CLASSROOM	24	CLASSROOM
3	CLASSROOM	25	CLASSROOM
4	CLASSROOM	26	CLASSROOM
5	CLASSROOM	27	STORAGE
6	CLASSROOM	27A	STORAGE
7	CLASSROOM	28	SENSORY ROOM
8	TEACHER RESOURCE	30	CONFERENCE
9	CLASSROOM	30A	STORAGE
10	CLASSROOM	30B	TOILET
11	CLASSROOM	31	STORAGE
12	CLASSROOM	32	STORAGE
13	LOUNGE	33	STORAGE
13A	TOILET	34	MAN OFFICE
13B	STORAGE	34A	PRINCIPAL
14	WORK ROOM	35	BOILER ROOM
14A	STORAGE	36	PASSAGE
15	CLASSROOM	36A	TOILET
15A	TOILET	37	STORAGE
16	CLASSROOM	C101	CORRIDOR
17	READING CENTER	C102	CORRIDOR
17A	STORAGE	C103	CORRIDOR
17B	STORAGE	C104	CORRIDOR
17C	STORAGE	C105	CORRIDOR
17D	STORAGE	C106	CORRIDOR
18	CLASSROOM	C107	CORRIDOR
19	MULTI-PURPOSE ROOM	J101	JANITOR
19A	STAGE	J102	JANITOR
19B	BLEACHERS	J103	JANITOR
19C	STORAGE	S101	STAIR
19D	KITCHEN	T101	GIRLS
20	SPEECH	T102	BOYS
20A	STORAGE	T103	GIRLS
20B	TOILET	T104	BOYS
21	OFFICE	V101	VESTIBULE
21A	STORAGE	V102	VESTIBULE
22	CLASSROOM	V103	VESTIBULE

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2022 MECHANICAL WORK
TAFT ELEMENTARY SCHOOL

FOR
JOLIET PUBLIC SCHOOLS DISTRICT 86
JOLIET, WILL COUNTY, ILLINOIS

REVISIONS
NO. 1
DATE 11-24-2021
DESCRIPTION ADDENDUM NO. 2

PROJECT NO.
6-1621-142

DESIGNED BY
GL

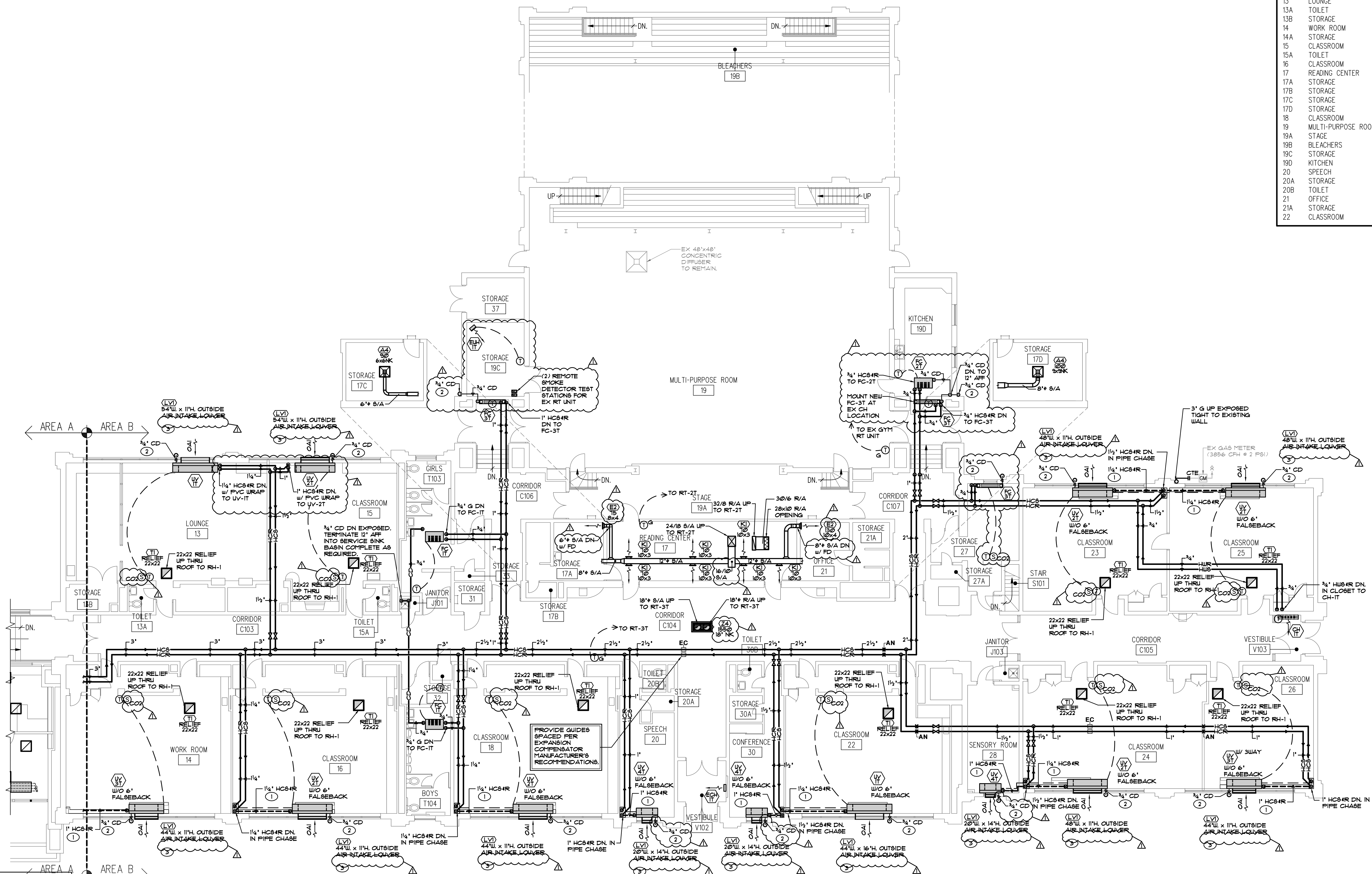
DATE 11-08-2021

SHEET NO.

M-1.3

OF 9

FIRST FLOOR MECHANICAL HVAC PLAN - AREA B
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FIRST FLOOR MECHANICAL HVAC PLAN - AREA B

1/8" = 1'-0"
0 2 4 8 16 24

MECHANICAL EQUIPMENT SCHEDULE																																																												
TAG	MANUFACTURER	MODEL NUMBER	DESCRIPTION	FAN MOTOR DATA								EXHAUST FANS				DX COOLING EQUIPMENT/COIL DATA							GAS FIRED HEATING EQUIP DATA									CHILLED WATER COOLING EQUIPMENT/COIL DATA										HOT WATER HEATING EQUIPMENT/COIL DATA										ELECTRICAL DATA						UNITS	EQUIP	
				MIN OAI CFM				HP	RPM	CFM	ESP	HP	RPM	MBH	SHC	EDB	EUB	LDB	LUB	CAT	STAGES	MBH (IN)	MBH (OUT)	EAT	LAT	STAGES	MBH	SHC	GFM	EDB	EUB	LDB	LUB	EUT	LUT	MAX UPD	CAT	MBH (N)	MBH (OUT)	GFM	EAT	LAT	EUT	LUT	UPD	HP	MCA	FLA	AMPS	MOCP	VOLT	PHASE	HZ	STARTER	CNTRL'D BY	WEIGHT	REMARKS			
				CFM	HIGH	LOW	ESF																																																					
G-IT	QUANTECH	QTC3120THE	ROOF MOUNTED AIR COOLED CHILLER	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	RHS	6043	NOTE 1					
B-IT	LOCHINVAR	FB-B01	GAS FIRED HW CONDENSING BOILER w/SEALED COMBUSTION	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	RHS	230T	NOTE 2					
B-2T	LOCHINVAR	FB-B01	GAS FIRED HW CONDENSING BOILER w/SEALED COMBUSTION	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	RHS	230T	NOTE 2					
RT-IT	AAON	RQ-003	ROOF MOUNTED DX COOLING/GAS FIRED HEATING HVAC UNIT (8ZCAV)	760	90	-	0.75	1	1322	1030	0.3	0.5	1039	35	25	77	63	48	48	95	MOD	60	48.6	60	117	4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	RHS	905	NOTE 3.
RT-2T	AAON	RQ-004	ROOF MOUNTED DX COOLING/GAS FIRED HEATING HVAC UNIT (8ZCAV)	880	250	-	1.25	1	1344	880	0.3	0.5	1086	38	27	80	66	51	51	95	MOD	60	48.6	48	99	4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	RHS	1010	NOTE 3.
RT-3T	AAON	RQ-004	ROOF MOUNTED DX COOLING/GAS FIRED HEATING HVAC UNIT (8ZCAV)	1550	200	-	0.9	2	1459	1550	0.3	1	1440	49	43	78	63	52	51	95	MOD	100	81	60	108	4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	RHS	1135	NOTE 10.
RT-4T	AAON	RQ-004	ROOF MOUNTED DX COOLING/GAS FIRED HEATING HVAC UNIT (8ZCAV)	1550	200	-	0.9	2	1459	1550	0.3	1	1440	49	43	78	63	52	51	95	MOD	100	81	60	108	4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	RHS	1135	NOTE 10.	
RT-5T	AAON	RQ-003	ROOF MOUNTED DX COOLING/GAS FIRED HEATING HVAC UNIT (8ZCAV)	705	75	-	0.9	1	1262	705	0.3	0.5	1018	34	24	77	63	46	45	95	MOD	60	48.6	60	123	4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	RHS	905	NOTE 10.	
UV-IT	MAGICAIRE	MAUV5	VERTICAL UNIT VENTILATOR - 2 PIPE CHILLED/HOT WATER	1480	470	-	0.1	1/2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	RHS	675	NOTE 4				
UV-2T	MAGICAIRE	MAUV4	VERTICAL UNIT VENTILATOR - 2 PIPE CHILLED/H																																																									

PUMP SCHEDULE														
TAG	MANUFACTURER	MODEL NUMBER	DESCRIPTION	GPM	HEAD (FT.)	PUMP MOTOR DATA					SUCTION/ DISCHARGE		REMARKS	
						HP	RPM	VOLT	PHASE	HZ	STARTER: MC. EC.	SIZE		
BP-1T	BELL & GOSSETT	SERIES 80: 2.5x2.5x1B	INLINE BOILER RECIRCULATION PUMP (B-1)	144	30	2	1750	208	3	60	X	-	2.5" / 2.5"	-
BP-2T	BELL & GOSSETT	SERIES 80: 2.5x2.5x1B	INLINE BOILER RECIRCULATION PUMP (B-2)	144	30	2	1750	208	3	60	X	-	2.5" / 2.5"	-
CP-1T	BELL & GOSSETT	SERIES 80: 4x4x1B	INLINE CHILLER RECIRCULATION PUMP (C-1)	282	40	5	1750	208	3	60	X	-	4" / 4"	-
HCP-1T	BELL & GOSSETT	SERIES 80: 2.5x2.5x3BC	BASE MOUNTED HOT/CHILLED WATER DISTRIBUTION PUMP	144	70	7.5	1750	208	3	60	X	-	2.5" / 2.5"	HOT/CHILLED WATER PRIMARY PUMPS W/VPD OPERATING IN PARALLEL, 288 GPM AT 10 FT. HD. WITH DUAL POWER FEEDERS
HCP-2T	BELL & GOSSETT	SERIES 80: 2.5x2.5x3BC	BASE MOUNTED HOT/CHILLED WATER DISTRIBUTION PUMP	144	70	7.5	1750	208	3	60	X	-	2.5" / 2.5"	

MECHANICAL EQUIPMENT SCHEDULE - ELECTRIC HEATERS																					
TAG	MANUFACTURER	MODEL NUMBER	DESCRIPTION	FAN DATA	ELECTRIC HEAT DATA					ELECTRICAL DATA								UNITS CONTROLLED BY	EQUIP WEIGHT	REMARKS	
				S/A						LOAD					DISC. SUT.						
				CFM	MBH	KW	EAT	LAT	HP	MCA	FLA	AMFBS	MOCP	VOLT	PHASE	HZ	MC				EC
ECH-1T	QMARK	LPK408P	WALL MOUNTED ELECTRIC CABINET HEATER	100	16.4	4.8	60	211	-	-	-	231	-	208	1	60	-	X	INTEGRAL T-8TAT	22	-
EUH-1T	QMARK	MUH-0381	ELECTRIC SUSPENDED UNIT HEATER	350	102	3.0	60	86.3	-	-	-	145	-	208	1	60	-	X	INTEGRAL T-8TAT	21	-

NATURAL GAS CONNECTION SCHEDULE				
TAG	DESCRIPTION	LOCATION	CAPACITY CFH	REMARKS
B-1T	GAS FIRED H.W. CONDENSING BOILER w/SEALED COMBUSTION	35 - BOILER RM	1500	-
B-2T	GAS FIRED H.W. CONDENSING BOILER w/SEALED COMBUSTION	35 - BOILER RM	1500	-
RT-1T	ROOF MOUNTED GAS FIRED / DX COOLING PACKAGED UNIT	ROOF	60	-
RT-2T	ROOF MOUNTED GAS FIRED / DX COOLING PACKAGED UNIT	ROOF	60	-
RT-3T	ROOF MOUNTED GAS FIRED / DX COOLING PACKAGED UNIT	ROOF	100	-
RT-4T	ROOF MOUNTED GAS FIRED / DX COOLING PACKAGED UNIT	ROOF	100	-
RT-5T	ROOF MOUNTED GAS FIRED / DX COOLING PACKAGED UNIT	ROOF	60	-
-	EXIST ROOF MOUNTED GAS FIRED/ DX COOLING PACKAGED UNIT	ROOF	300	-
-	EXIST DOMESTIC HOT WATER HEATER	35 - BOILER RM	36	-
-	EXIST DOMESTIC HOT WATER HEATER	8001 - STAIR #1	50	-
TOTAL			3856	CFH @ 2 PSI

COMMISSIONING NOTE

1. COMMISSIONING: THE OWNER WILL HIRE A COMMISSIONING AGENCY (CXA) TO COMMISSION THE MECHANICAL SYSTEMS FOR THIS PROJECT. THE CXA WILL DEVELOP A COMMISSIONING PLAN THAT WILL OUTLINE THE REQUIREMENTS AND PROCEDURES FOR EACH COMMISSIONED SYSTEM AND WILL BE RESPONSIBLE THAT THE COMMISSIONING MEETS THE REQUIREMENTS OF THE CURRENT ENERGY CODE. THE COMMISSIONING PLAN WILL BE DEVELOPED AFTER CONTRACTS HAVE BEEN AWARDED AND PRIOR TO COMPLETION OF THE SYSTEMS TO BE COMMISSIONED.
2. PROVIDE REQUESTED INFORMATION TO THE CXA IN THEIR DEVELOPMENT OF THE COMMISSIONING PLAN PERTAINING TO THE MECHANICAL SYSTEMS, EQUIPMENT AND INSTALLATION.
3. PROVIDE START-UP AND TESTING AND BALANCING OF THE MECHANICAL SYSTEMS.
4. PROVIDE TESTING OF THE MECHANICAL SYSTEMS TO COMPLY WITH THE COMMISSIONING PLAN AND FOR DOCUMENTATION BY THE CXA.
5. RECTIFY DEFICIENCIES IDENTIFIED BY CXA - AND SUBMIT REPORTS INDICATING COMPLETION. PROVIDE ADDITIONAL TESTING TO COMPLY WITH THE COMMISSIONING PLAN AND FOR DOCUMENTATION BY THE CXA. CONTINUE THIS PROCESS UNTIL THE COMMISSIONING IS ACCEPTED BY THE CXA.
6. PROVIDE FINAL DOCUMENTATION REQUIREMENTS TO COMPLY WITH THE REQUIREMENTS OF THE COMMISSIONING PLAN.
7. COMPLETE THE REQUIREMENTS OF THE CONTRACT DOCUMENTS FOR ALL SYSTEMS INCLUDING THE COMMISSIONING REQUIREMENTS LISTED ABOVE.
8. THE FOLLOWING MECHANICAL SYSTEMS ARE TO BE COMMISSIONED.
 - A. ALL NEW HVAC EQUIPMENT.
 - B. TEMPERATURE CONTROLS

MECHANICAL EQUIPMENT CONNECTION SCHEDULE																		
TAG	DESCRIPTION	LOAD					MOCP	VOLT	PHASE	PANEL	CKT. NO.	FUSED SWITCH	FEEDER		STARTER BY:		LOCATION	REMARKS
		WATTS	HP	MCA	FLA	AMPS							CABLE	C	MC	EC		
C-1T	ROOF MOUNTED AIR COOLED CHILLER	181836	-	522	-	-	600	208	3	MDP	MDP	600A/3P	(2 SETS) 4 #50 KCHIL 4 1/4 GRD.	(2) 3"	X	-	-	-
C-1T	CHILLER HEAT TRACE	560	-	8	-	-	-	120	1	EX FNL	EX FNL	20A/1P	2 #12 4 1/2 GRD.	3/4"	-	X	-	LOAD/FT
B-1T	GAS FIRED H.W. CONDENSING BOILER	180	-	15	-	-	-	120	1	EX FNL	EX FNL	15A/1P	2 #12 4 1/2 GRD.	3/4"	X	-	-	-
B-2T	GAS FIRED H.W. CONDENSING BOILER	180	-	15	-	-	-	120	1	EX FNL	EX FNL	15A/1P	2 #12 4 1/2 GRD.	3/4"	X	-	-	-
RT-1T	ROOF MOUNTED DX/GAS-HEATING HVAC UNIT	10795	-	-	30	-	40	208	3	MDP	MDP	40A/3P	4 #8 4 1/2 GRD.	3/4"				-
RT-2T	ROOF MOUNTED DX/GAS-HEATING HVAC UNIT	9716	-	-	27	-	40	208	3	MDP	MDP	40A/3P	4 #8 4 1/2 GRD.	3/4"				-
RT-3T	ROOF MOUNTED DX/GAS-HEATING HVAC UNIT	11875	-	-	33	-	50	208	3	MDP	MDP	50A/3P	4 #8 4 1/2 GRD.	3/4"				-
RT-4T	ROOF MOUNTED DX/GAS-HEATING HVAC UNIT	11875	-	-	33	-	50	208	3	MDP	MDP	50A/3P	4 #8 4 1/2 GRD.	3/4"				-
RT-5T	ROOF MOUNTED DX/GAS-HEATING HVAC UNIT	10795	-	-	30	-	50	208	3	MDP	MDP	50A/3P	4 #8 4 1/2 GRD.	3/4"				-
UV-1T	VERTICAL UNIT VENTILATOR - 2 PIPE CHILLED/HOT WATER	708	-	5.3	-	-	15	120	1	VARIABLE	VARIABLE	15A/1P	2 #12 4 1/2 GRD.	3/4"	X	-	-	-
UV-2T	VERTICAL UNIT VENTILATOR - 2 PIPE CHILLED/HOT WATER	708	-	5.3	-	-	15	120	1	VARIABLE	VARIABLE	15A/1P	2 #12 4 1/2 GRD.	3/4"	X	-	-	-
UV-3T	VERTICAL UNIT VENTILATOR - 2 PIPE CHILLED/HOT WATER	600	-	5	-	-	15	120	1	VARIABLE	VARIABLE	15A/1P	2 #12 4 1/2 GRD.	3/4"	X	-	-	-
UV-4T	VERTICAL UNIT VENTILATOR - 2 PIPE CHILLED/HOT WATER	716	-	18	-	-	15	120	1	VARIABLE	VARIABLE	15A/1P	2 #12 4 1/2 GRD.	3/4"	X	-	-	-
FC-1T	HORIZONTAL CABINET CHILLED/HOT WATER FAN COIL UNIT - 2 PIPE	240	-	2	-	-	15	120	1	VARIABLE	VARIABLE	15A/1P	2 #12 4 1/2 GRD.	3/4"	X	-	-	-
FC-2T	HORIZONTAL CABINET CHILLED/HOT WATER FAN COIL UNIT - 2 PIPE	360	-	3	-	-	15	120	1	VARIABLE	VARIABLE	15A/1P	2 #12 4 1/2 GRD.	3/4"				-
FC-3T	VERTICAL CABINET CHILLED/HOT WATER FAN COIL UNIT - 2 PIPE	240	-	2	-	-	15	120	1	VARIABLE	VARIABLE	15A/1P	2 #12 4 1/2 GRD.	3/4"				-
HX-1T	HEAT EXCHANGER	-	-	-	-	-	-	-	-						-	-	-	-
CH-1T	HOT WATER CABINET HEATER - 2 PIPE	168	-	-	-	1.4	15	120	1	VARIABLE	VARIABLE	15A/1P	2 #12 4 1/2 GRD.	3/4"				-
UH-1T	SUSPENDED UNIT HEATER	199	1/20	-	-	-	-	120	1	VARIABLE	VARIABLE	15A/1P	2 #12 4 1/2 GRD.	3/4"				-
RHP-1T	4'-0" x 2'-0" CEILING MTD HOT WATER RADIANT HEAT PANEL	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-
BP-1T	BOILER PUMP	2699	2	-	-	-	-	208	3	EX FNL	EX FNL	15A/3P	4 #12 4 1/2 GRD.	3/4"	-	-	-	-
BP-2T	BOILER PUMP	2699	2	-	-	-	-	208	3	EX FNL	EX FNL	15A/3P	4 #12 4 1/2 GRD.	3/4"	-	-	-	-
CP-1T	CHILLER PUMP	6000	5	-	-	-	-	208	3	EX FNL	EX FNL	35A/3P	4 #8 4 1/2 GRD.	3/4"	-	-	-	-
HCP-1T	HOT/CHILLED WATER PUMP	8708	8	-	-	-	-	208	3	EX FNL	EX FNL	50A/3P	4 #8 4 1/2 GRD.	3/4"	-	-	-	-
HCP-2T	HOT/CHILLED WATER PUMP	8708	8	-	-	-	-	208	3	EX FNL	EX FNL	50A/3P	4 #8 4 1/2 GRD.	3/4"	-	-	-	-

MECHANICAL EQUIPMENT CONNECTION SCHEDULE																		
TAG	DESCRIPTION	LOAD					MOCP	VOLT	PHASE	PANEL	CKT. NO.	FUSED SWITCH	FEEDER		STARTER BY:		LOCATION	REMARKS
		WATTS	HP	MCA	FLA	AMPS							C/B	C	MC	EC		
ECH-IT	WALL MOUNTED ELECTRIC CABINET HEATER	-	-	-	-	231	-	208	1	VARIABLE	VARIABLE	30A/2P	3 #10 4 1/2 GRD.	3/4"	-	X	-	-
EUH-IT	ELECTRIC SUSPENDED UNIT HEATER	-	-	-	-	145	-	208	1	VARIABLE	VARIABLE	20A/2P	3 #12 4 1/2 GRD.	3/4"	-	X	-	-

SYMBOL LIST

	120V-20A SPECIFICATION GRADE DUPLEX RECEPTACLE - (MOUNTED 18" AFF. OR AS NOTED) (HUBBELL #362 OR EQUAL)		120V-20A SPECIFICATION GRADE DUPLEX RECEPTACLE - (MOUNTED 42" AFF. OR 2' ABOVE BACKSPLASH IF LOCATED ABOVE COUNTER) (HUBBELL #362 OR EQUAL)
	120V-20A SPECIFICATION GRADE DUPLEX RECEPTACLE WITH GFI PROTECTION - (MOUNTED 18" AFF. OR AS NOTED) (HUBBELL #GF20 OR EQUAL)		GENERAL PURPOSE 3-POLE 110V SERIES OR EQUAL BY GREENGATE, LEVITON OR CRISTAL CONTROLS
	SWITCH W/ PILOT LIGHT HANDLE MTD. 42" AFF		ELECTRIC PANELBOARDS
	DISCONNECT SWITCH SIZE AND TYPE AS REQUIRED - COORDINATE AMPERE RATING WITH EQUIPMENT SUPPLIER		FLEX CONDUIT CONNECTION
	JUNCTION BOX - SIZE AND TYPE AS REQUIRED		JUNCTION BOX W/ FLEX CONDUIT CONNECTION
	CONDUIT STUB INTO ACCESSIBLE CEILING SPACE TERMINATE W/ INSULATING BUSHING		CONDUIT CONCEALED ABOVE CEILING OR IN WALL
	CONDUIT CONCEALED IN OR BELOW FINISHED FLOOR		CONDUIT EXPOSED ON CEILING, WALL OR BAR JOIST - ROUTED IN NEAT MANNER
	HOME RUN TO PANEL INDICATING PANEL AND CIRCUIT BREAKER NUMBER WITHIN THE PANEL		INDICATES NUMBER OF CONDUCTORS IN CONDUIT (CONTRACTOR SHALL VERIFY AND INSTALL ADDITIONAL WHERE REQUIRED) CROSS HATCHED INDICATES NUMBER OF CONDUCTORS (HOT OR SWITCHED LEG, NEUTRAL, GROUND)
	ELLIPSE TAG REFERENCE TO SHEET NOTES		EXISTING CLOCK
	EXISTING BELL		EXISTING EMERGENCY LIGHT
	EXISTING EXIT SIGN		EXISTING CAMERA
	EXISTING CEILING FAN		EXISTING MOTION SENSOR
	TWO DEVICE MOUNTED UNDER COMMON COVER, WHERE LOW VOLTAGE DEVICES ARE MOUNTED UNDER COMMON COVER, COMBINE CONDUIT STUBS MAINTAINING THE EQUIVALENT FREE AREA FOR THE LOW VOLTAGE CABLING		FIRE ALARM CONTROL RELAY IN AIR HANDLING UNIT CONTROL PANEL WIRED TO SHUT DOWN FANS UPON FIRE ALARM SYSTEM ACTIVATION - NOTE: FANS TO AUTOMATICALLY RESTART UPON FIRE ALARM SYSTEM RESET. ALSO, RELAYS SHALL BE INTERFACED TO FIRE DOORS TO DISENGAGE UPON ACTIVATION OF THE FIRE ALARM SYSTEM
	FIRE ALARM SYSTEM HEAT DETECTOR - COMBINATION TYPE (R/R - FIXED TEMP.) IN BOILER ROOM		FIRE ALARM SYSTEM SMOKE DETECTOR - CEILING MOUNTED - ABOVE FACP
	FIRE ALARM CONTROL PANEL		MANUAL STARTING SWITCH WITH THERMAL OVERLOAD PROTECTION
	PULL BOX, VERIFY EXACT SIZE IN FIELD		SPLICE BOX, VERIFY EXACT SIZE IN FIELD
	ADDRESSABLE CARBON MONOXIDE DETECTOR FOR ROOF TOP UNIT TO BE INSTALLED IN DUCT, DEVICE SHALL BE FULLY COMPATIBLE AND UL LISTED FOR USE WITH EXISTING FACP. AT CONTRACTOR'S OPTION, CONTRACTOR SHALL PROVIDE UL LISTED ADDRESSABLE CARBON MONOXIDE UNITS LISTED FOR USE WITH EXISTING FACP LOCATED WITHIN 20' OF ROOFTOP AND IN EVERY SPACE SERVED BY ROOFTOP, COMPLETE AS REQUIRED		FIRE ALARM SYSTEM DUCT TYPE SMOKE DETECTOR WIRED TO CONTROL LOCAL FAN SHUT DOWN RELAY - DUCT DETECTOR TO BE MOUNTED IN AIR DUCT SYSTEM AND WIRED PER MANUFACTURER'S RECOMMENDATIONS AND NFPA 72
	DUPLEX DATA OUTLET - WITH 1/2" CONDUIT STUBBED INTO ACCESSIBLE CEILING SPACE WITH INSULATED BUSHING - MOUNTED 18" AFF. WHEN MOUNTED ADJACENT TO AN ELECTRICAL RECEPTACLE OR AS NOTED. PROVIDE CAT-6 PLENUM CABLE, FROM EACH JACK TO NEAREST IDF OR MDF LOCATION INDICATED ON PLANS. TERMINATE WITH RJ-45 JACK. TEST AND LEAVE 10' SLACK LENGTH		SPECIAL PURPOSE OUTLET (AS NOTED ON PLAN OR SPECIFICATIONS)
	EXISTING PROJECTOR OUTLET		FIRE ALARM SYSTEM CARBON MONOXIDE SENSOR - CEILING MOUNTED

GENERAL NOTES

- WORK SHALL COMPLY WITH LOCAL, STATE AND NATIONAL ELECTRIC CODES, ILLINOIS ACCESSIBILITY CODE AND ILLINOIS LIFE SAFETY CODE FOR SCHOOLS.
- THE PANEL SCHEDULES ARE PROVIDED FOR ASSISTANCE ONLY IN UNDERSTANDING THE LOADS ON THE VARIOUS CIRCUITS AND THE CIRCUIT DESIGNATIONS DESIRED FOR THE PANEL DIRECTORIES. THE PANEL SCHEDULES MUST BE BALANCED UPON COMPLETION OF THE PROJECT TO COMPLY WITH CODE. IN ADDITION, THE PANEL SCHEDULES DO NOT IDENTIFY THE TYPES OF CIRCUIT BREAKERS TO BE USED (SUCH AS GFI, HACR, SHUNT TRIP UNITS, ETC.) NOR DO THE SCHEDULES IDENTIFY CIRCUIT BREAKERS REQUIRED, (SUCH AS C/B'S FEEDING SURGE PROTECTION UNITS). REFER TO THE REST OF THE DRAWINGS AND THE SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS AND DETAILED INFORMATION.
- COORDINATE EQUIPMENT ELECTRICAL REQUIREMENTS (VOLTAGES, PHASE, LOAD, ETC.) TO AVOID CONFLICTS.
- REFER TO ARCHITECTURAL PLANS AND ELEVATIONS FOR ADDITIONAL ELECTRICAL INFORMATION AND REQUIREMENTS. IN ALL CASES DEVICE MOUNTING HEIGHTS AND LOCATIONS SHALL CONFORM TO THE LATEST AMERICANS WITH DISABILITIES FEDERAL STANDARDS.
- EXCAVATION NECESSARY FOR COMPLETION OF WORK SHALL BE PROVIDED. COORDINATE WITH ONE ANOTHER TO SHARE TRENCHES WHEREVER POSSIBLE.
- REFER TO THE PLANS FOR ADDITIONAL ELECTRICAL WORK AND REQUIREMENTS. FIELD INSTALL AND LOCAL DISCONNECT SWITCHES AT EQUIPMENT/MOTOR LOCATION, AS REQUIRED, AND IN ACCORDANCE WITH CODE. IF THE WORK OF OTHER TRADES CAUSES A LOSS OF CONTINUITY OF THE EXISTING ELECTRICAL DISTRIBUTION, GROUNDING SYSTEM OR CIRCUITRY, IT SHALL BE RECONNECTED OR REPAIRED AT NO ADDITIONAL COST.
- FIELD VERIFY IF EXISTING ASBESTOS WILL BE ENCOUNTERED PRIOR TO STARTING ANY WORK. IF ASBESTOS IS PRESENT, THE OWNER WILL PROVIDE FOR THE REMOVAL OF ANY MATERIAL CONTAINING ASBESTOS. SEE SPECIFICATIONS FOR FURTHER REQUIREMENTS.
- COORDINATE PHASING OF WORK AND PROVIDE TEMPORARY POWER AND SERVICES AS REQUIRED FOR THE IMPLEMENTATION OF WORK WHILE MAINTAINING SERVICES TO PORTIONS OF BUILDING TO REMAIN OCCUPIED.
- SCHEDULE WORK TO AVOID DOWNTIME AND INCONVENIENCE TO OWNER. OWNER'S EXISTING FACILITY SHALL REMAIN IN OPERATION AT ALL TIMES, INCLUDING F/A AND OTHER SPECIAL SYSTEMS, ELECTRICAL POWER DISTRIBUTION, ETC. REQUIRED SHUTDOWNS OF EXISTING FACILITY UTILITIES SHALL BE SCHEDULED WITH OWNER'S OPERATING PERSONNEL.
- LAYOUT IS DIAGNOSTIC AND INSTALL DEVICES, CONDUIT AND EQUIPMENT TO MEET ACTUAL FIELD CONDITIONS. REVIEW PROJECT SPECIFICATIONS BEFORE STARTING WORK AND SUBMIT COMPLETE SHOP DRAWINGS AS PER SPECIFICATIONS.
- VISIT SITE PRIOR TO BID TO DETERMINE AND VERIFY EXISTING INTERIOR AND EXTERIOR ELECTRICAL SYSTEMS TO VERIFY QUANTITIES AND LOCATIONS OF EXISTING SYSTEMS TO DETERMINE FULL EXTENT OF WORK. INCLUDE THE NECESSARY MODIFICATIONS TO THE EXISTING CONDITIONS (INCLUDING CEILINGS, WALLS, FLOORS, PIPES, CONDUIT, ROOF WORK, ETC.) AS REQUIRED, TO ALLOW FOR PROPER INSTALLATION OF WORK. ADJUST INSTALLATIONS AS REQUIRED FOR A COMPLETE AND PROPER INSTALLATION. NO EXTRAS WILL BE ALLOWED AFTER BIDDING FOR ANY REWORK OF EXISTING FIELD CONDITIONS TO RESOLVE CONFLICTS OR NOT FULLY UNDERSTANDING THE SCOPE OF THE WORK REQUIRED. EXISTING EQUIPMENT, CONDUIT, PIPING, ETC. SHALL BE REMOVED AS NOTED ON DRAWINGS AND AS REQUIRED TO MEET NEW SCOPE OF WORK.
- HIDDEN CONDITIONS IDENTIFIED THROUGH THE COURSE OF CONSTRUCTION SHALL BE IMMEDIATELY BROUGHT TO ATTENTION IN WRITTEN FORM FOR REVIEW AND PRECISION. FAILURE TO DO SO SHALL REQUIRE THE CHANGES AND COSTS TO CORRECT SAID HIDDEN CONDITION TO BE COMPLETED AT NO COST. EXISTING EQUIPMENT NOT IDENTIFIED SHALL BE BROUGHT TO ATTENTION FOR REVIEW AS TO WHETHER THE EQUIPMENT SHALL REMAIN AND BE RECONNECTED TO THE NEW SERVICES, BE RELOCATED, BE ABANDONED, ETC.
- REMOVE AND REINSTALL EXISTING CEILINGS NOT BEING REPLACED (INCLUDING LIGHTS, MOTION SENSORS, FIRE ALARM DEVICES AND ANY OTHER ELECTRICAL DEVICES AS REQUIRED) WHERE NECESSARY TO PERFORM WORK. THIS ALSO INCLUDES EXISTING CEILINGS OR PLASTER, DRYWALL, ETC. COORDINATE WORK IN CEILING SPACE SO AS TO MINIMIZE THE AMOUNT OF CEILING WHICH MUST BE REMOVED AND REINSTALLED. REVIEW THE ENTIRE SET OF CONTRACT DOCUMENTS IN ORDER TO UNDERSTAND AND COMPLY WITH ALL REQUIREMENTS. INCLUDE CEILING WORK NECESSARY FOR WORK ON THE PROJECT. WHEN THE WORK IS COMPLETED IN THE SPACE, REINSTALL OR PATCH EXISTING CEILINGS, REINSTALL DEVICES AND EQUIPMENT AND REPAIR DAMAGE AS REQUIRED TO COMPLETELY MATCH EXISTING CONDITIONS. REPAIR OR REPLACE ANY DAMAGE CAUSED TO EXISTING CEILING AREAS.
- REMOVE EXISTING CONSTRUCTION AS REQUIRED AT EXISTING WALLS, FLOORS, PIPE CHASES, SURFACES, FINISHES, ETC. WHICH ARE AFFECTED. REPAIR EXISTING SURFACES AFFECTED TO MATCH EXISTING SURFACE OF EQUAL OR BETTER QUALITY TO THE SATISFACTION OF THE OWNER'S REPRESENTATIVE.
- COORDINATE NEW INSTALLATIONS WITH EXISTING SYSTEMS. RELOCATE EXISTING LIGHTING, CONDUIT, EQUIPMENT, ETC. AS NECESSARY FOR NEW INSTALLATIONS.
- PROVIDE NEW PANEL DIRECTORIES IN EXISTING MODIFIED PANELBOARDS AND NEW PANELBOARDS TO CORRECTLY IDENTIFY EXISTING AND NEW LOADS. FINAL DIRECTORIES SHALL BE TYPE WRITTEN.
- EXISTING LIGHTING FIXTURES, ELECTRICAL DEVICES, CONDUIT, ETC. SHALL BE REMOVED AS NOTED ON DRAWINGS AND AS REQUIRED TO MEET NEW SCOPE OF WORK. EXISTING ELECTRICAL EQUIPMENT SHALL REMAIN PROPERTY OF THE OWNER AND SHALL BE PROPERLY STORED ON SITE OR DESIGNATED TO BE ABANDONED AND REMOVED FROM SITE AS DIRECTED BY OWNER.
- PERFORM CUTTING AND PATCHING OF EXISTING FLOOR SLABS AND WALLS AS REQUIRED FOR THE INSTALLATION OF ELECTRICAL SYSTEMS.
- EXISTING ELECTRICAL DEVICES (RECEPTACLES, SWITCHES, OUTLET BOXES, CONDUIT, ETC.) WITHIN WALLS TO BE REMOVED SHALL BE DISCONNECTED COMPLETELY. REROUTE AND EXTEND EXISTING CIRCUITRY, ELECTRICAL FEEDERS AND GROUNDING SYSTEMS AS REQUIRED TO MAINTAIN CIRCUIT, FEEDER AND GROUNDING SYSTEM INTEGRITY FOR ALL REMAINING DEVICES/EQUIPMENT. VERIFY EXACT CONDITIONS AND REQUIREMENTS IN FIELD.
- WHERE NEW CIRCUIT BREAKERS, FUSES AND SWITCHES ARE TO BE ADDED TO EXISTING PANELBOARDS, SWITCHBOARDS, ETC., THEY SHALL BE OF THE SAME MANUFACTURER AND DESIGN AS THE EXISTING BREAKERS OR SWITCHES IF NOT OBSOLETE AND SHALL BE OF THE SIZES AS INDICATED. REARRANGE CIRCUIT BREAKERS WITHIN THE EXISTING EQUIPMENT TO ACCOMMODATE THE NEW CIRCUIT BREAKERS OR SWITCHES. BRANCH CIRCUIT NUMBERS ASSIGNED TO EXISTING PANELBOARDS ARE ARBITRARY AND ARE INTENDED TO INDICATE BRANCH CIRCUIT REQUIREMENTS ONLY. ACTUAL PANEL NUMBER ASSIGNMENTS FOR DESIGNATED BRANCH CIRCUITS SHALL BE ADJUSTED TO MEET FIELD CONDITIONS. PROVIDE ADDITIONAL BUS, BUS EXTENSION, BOLTS AND HARDWARE, ENCLOSURE MODIFICATIONS, DIRECTORY MODIFICATIONS, ETC., AS REQUIRED TO ACCOMPLISH THE WORK.
- THE MINIMUM DISTANCE BETWEEN SMOKE OR HEAT DETECTORS AND CEILING MOUNTED SUPPLY DIFFUSERS SHALL BE A MINIMUM OF 4 FEET AND WALL MOUNTED DIFFUSERS SHALL BE 10 FEET.
- WHERE INDICATED ON THE DRAWINGS IN UNFINISHED SPACES, RUN EXPOSED RACEWAYS PARALLEL WITH OR AT RIGHT ANGLES TO WALL.
- NO RACEWAYS SHALL BE INSTALLED WITHIN 6" OF STEAM, HOT WATER PIPES OR SIMILAR HEAT PRODUCING APPLIANCES.
- PROVIDE PULL WIRE IN EACH RACEWAY IN WHICH WIRING IS NOT INSTALLED.
- COVERS OF JUNCTION OR PULL BOXES SHALL BE ACCESSIBLE AND IDENTIFIED PER SPECIFICATIONS. FIRE ALARM JUNCTION BOXES SHALL BE PAINTED RED. JUNCTION OR PULL BOXES AND THE LIKE SHALL BE INDEPENDENTLY SUPPORTED TO BUILDING STRUCTURE WITH NO WEIGHT BEARING ON RACEWAYS.
- WIRE COLOR CODING SHALL BE COORDINATED THROUGHOUT THE ENTIRE PROJECT/BUILDING FOR NEW AND EXISTING SYSTEMS.
- IF MORE THAN THREE (3) PHASE (UNGROUND) CONDUCTORS ARE RUN IN THE SAME RACEWAY, CONDUCTOR AMPACITY SHALL BE DERATED IN ACCORDANCE WITH NEC ARTICLE 310.
- CONDUIT, LIGHTING, EQUIPMENT, ETC. SHALL NOT BE SUPPORTED FROM THE BOTTOM CHORD OF ENGINEERED JOISTS WITHOUT WRITTEN APPROVAL FROM THE STRUCTURAL ENGINEER. CONDUITS, ROUTED THROUGH AREAS WITH NO CEILING, SHALL BE ROUTED WITHIN THE WEBS OF THE JOISTS AND SHALL NOT BE ROUTED BELOW THE BOTTOM CHORD OF THE JOIST.
- SMOKE OR HEAT DETECTORS SHALL BE SURFACE MOUNTED TO CEILING, ROOF DECK MATERIALS, ETC. IN LIEU OF MOUNTING TO BOTTOM CHORD OF ENGINEERED JOIST OR ANY OTHER COMPONENTS NOT AN INTEGRAL PART OF THE HORIZONTAL CEILING.
- VERIFY EXISTING AND NEW MECHANICAL AND ELECTRICAL SYSTEMS PRIOR TO START OF NEW CONSTRUCTION. COORDINATE AND ADJUST NEW WORK AS REQUIRED TO AVOID CONFLICTS WITH EXISTING SERVICES AND NEW SERVICES PROVIDED.
- PROVIDE NECESSARY ROOFING COMPONENTS COMPATIBLE WITH EXISTING ROOFING SYSTEMS TO PROVIDE A WEATHERTIGHT INSTALLATION FOR THE ROOF PENETRATIONS AND ABANDONED HOLES FROM REMOVED ITEMS. PATCH ROOF OPENINGS FOR REMOVED PIPE PENETRATIONS, WITH RIGID ROOF INSULATION AND ROOF DECK MATERIAL FROM BELOW ROOF TO MATCH EXISTING ADJACENT MATERIALS. PROPERLY STRIP ROOFING MEMBRANE, ETC., AS REQUIRED, TO MATCH EXISTING ROOF SYSTEM WITH PROPER AND COMPATIBLE MATERIALS. PROVIDE A COMPLETE AND PROPER WEATHERTIGHT CONDITION.
- ROOF SUPPORTS FOR CONDUITS TO BE EQUIVALENT TO PORTABLE PIPE HANGER, INC. TYPE PP-10, WITH ROLLER GUIDE SUPPORT FOR SINGLE PIPES AND CHANNEL GUIDE SUPPORT FOR MULTIPLE PIPES. SUPPORTS TO HAVE HIGH DENSITY POLYPROPYLENE FLASHING BASE WITH THREADED RODS FOR ADJUSTABLE HEIGHT ROLLER SUPPORTS ARE TO BE ON TOP OF ROOFING MEMBRANE. SUPPORTS ARE TO BE INSTALLED AS PER MANUFACTURER'S RECOMMENDATION AND TO BE COMPATIBLE WITH AND MAINTAIN THE INTEGRITY OF THE EXISTING OR NEW ROOF SYSTEM. WHERE CONDUITS AND WIRING ARE RUN IN EXTERIOR LOCATIONS OR EXPOSED TO SUNLIGHT, CONDUCTORS SHALL BE PROPERLY SIZED PER NEC 310.
- WIRING DEVICES SHOWN BACK-TO-BACK IN WALLS SHALL BE SEPARATED BY 8" MINIMUM.
- UNLESS OTHERWISE NOTED, DEVICE ELEVATIONS REFER TO CENTER LINE OF JUNCTION BOX. VERIFY JUNCTION BOX LOCATIONS WITH FINAL EQUIPMENT LAYOUT PRIOR TO ROUGHING IN SAME.
- FURNISH AND INSTALL A GREEN GROUND WIRE IN POWER CONDUITS (NOT LIGHTING). ALL DEVICES, EQUIPMENT, FIXTURES AND THE LIKE, MUST BE GROUNDED. MECHANICAL/ELECTRICAL BONDS OF THE METALLIC RACEWAY SYSTEM SHALL BE MAINTAINED.
- PROVIDE CONDUIT AND WIRE AND MAKE FINAL POWER CONNECTIONS AS REQUIRED TO EXHAUST FANS AND MISCELLANEOUS EQUIPMENT FURNISHED WITH MOTORIZED DAMPER/DAMPERS. DAMPERS SHALL BE CONNECTED TO EQUIPMENT 120 VOLT POWER CIRCUIT 90 AS TO INTERLOCK THE MOTORIZED DAMPER WITH THE EXHAUST FAN. FOR THREE PHASE MOTORS, PROVIDE AN ADDITIONAL 120 VOLT CIRCUIT ROUTED THROUGH AN AUXILIARY CONTACT IN THE MOTOR STARTER.
- MODIFY EXISTING FIRE ALARM SYSTEM AS INDICATED ON DRAWINGS AND SPECIFICATIONS AND AS REQUIRED FOR A COMPLETE, CODE COMPLIANT INSTALLATION. PROVIDE ADDITIONAL PARTS, ACCESSORIES AND CABLES AS REQUIRED TO COMPLETE THE WORK. FURNISH AND INSTALL INTERFACE WIRING INTEGRAL TO THE FIRE ALARM SYSTEM AS WELL AS INTERFACE TO NEW ELEVATOR CONTROL PANEL, BUILDING AUTOMATION SYSTEM, ETC. FOR A COMPLETE AND OPERATING INSTALLATION. FIRE ALARM DEVICES SHALL BE CONNECTED TO THE FIRE ALARM POWER SUPPLY AND BATTERIES OF THE SYSTEM AND SHALL NOT BE CONNECTED TO NORMAL POWER. QUESTIONS REGARDING THE REQUIREMENTS OF THE FIRE ALARM SYSTEM OR THE INTENT OF THE CODE SHALL BE DIRECTED TO THE ARCHITECT/ENGINEER FOR REVIEW PRIOR TO BID.
- CONDUIT INSTALLED FOR LOW VOLTAGE SYSTEMS SHALL BE COORDINATED WITH THE LOW VOLTAGE INSTALLER IN FIELD. PRIOR TO ROUGH-IN, SUCH CONDUIT SHALL BE ROUTED TO MINIMIZE CABLE LENGTH AND COMPLY WITH LOW VOLTAGE CABLING DISTANCE LIMITATIONS.
- REWORK EXISTING ELECTRICAL FEEDERS, CONDUIT AND LOW VOLTAGE WIRING AS REQUIRED FOR INSTALLATION OF NEW STRUCTURAL COMPONENTS REQUIRED TO SUPPORT NEW ROOF MOUNTED EQUIPMENT. FURNISH AND INSTALL ALL CONDUIT, WIRING AND SPLICE BOXES TO MAINTAIN CONTINUITY.
- SINGLE POLE CIRCUITS SHALL HAVE SEPARATE INDEPENDENT NEUTRAL CONDUCTORS (NON-NETWORKED), WHICH (PER CODE) ARE CONSIDERED CURRENT CARRYING CONDUCTORS. THEREFORE, IF MORE THAN THREE (3) CURRENT CARRYING CONDUCTORS ARE RUN IN THE SAME RACEWAY, CONDUCTOR AMPACITY SHALL BE DERATED IN ACCORDANCE WITH NEC ARTICLE 310. AS SUCH, MULTIPLE BRANCH CIRCUIT HOME RUNS SHALL, AT A MINIMUM, UTILIZE 10 AWG CONDUCTORS TO COMPLY WITH REQUIREMENTS HEREIN. COORDINATE REQUIREMENTS IN FIELD WITH SPECIFIC HOME RUN CONFIGURATION AND NEC REQUIREMENTS.
- CONTRACTOR SHALL OBTAIN AVAILABLE FAULT CURRENT, UTILITY TRANSFORMER SIZE AND IMPEDANCE WITHIN 14 DAYS OF CONTRACT AWARD. ELECTRICAL PANEL AND GEAR SHOP DRAWINGS SHALL BE SUBMITTED ALONG WITH COORDINATION/ARC FLASH STUDY WITH 30 DAYS OF CONTRACT AWARD FOR REVIEW. ALL GEAR SHALL BE RATED TO PROPERLY WITHSTAND AVAILABLE FAULT CURRENT.
- PRIOR TO THE START OF WORK AND THE ORDERING OF EQUIPMENT, CONTRACTOR SHALL CAREFULLY MEASURE AND VERIFY THE VOLTAGE, PHASE AND WIRING CONFIGURATION OF EXISTING PANELS AND EXISTING GEAR THAT ARE PART OF WORK AND SHALL CAREFULLY VERIFY THAT ALL ELECTRICAL CONNECTIONS, GEAR AND EQUIPMENT HAVE BEEN CAREFULLY COORDINATED TO ELIMINATE CONFLICTS. COORDINATE WITH OTHER TRADES AS REQUIRED TO ELIMINATE ELECTRICAL CONFLICTS PRIOR TO START OF WORK.

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2022 MECHANICAL WORK
TAFT ELEMENTARY SCHOOL

FOR
JOLIET, ILLINOIS

JOLIET PUBLIC SCHOOLS DISTRICT 86
JOLIET, WILL COUNTY, ILLINOIS

REVISIONS	DATE	DESCRIPTION
1	11-24-2021	ADDENDUM NO. 2

PROJ NO: 6-1621-42

DRAWN BY: MG

DATE: 11-08-2021

SHEET NO.

E-2.2

OF 6

ELECTRICAL SCHEDULES, NOTES & SYMBOLS

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ADDENDUM NO. 2
November 23, 2021

2022 MECHANICAL WORK
FOREST PARK INDIVIDUAL
EDUCATION SCHOOL
JOLIET, ILLINOIS
FOR
JOLIET PUBLIC SCHOOLS DISTRICT 86
JOLIET, WILL COUNTY, ILLINOIS
PROJECT NOS. 6-1621-41

This addendum shall be considered as part of the Contract Documents or Bidding Documents, as applicable, and shall govern insofar as it changes, deletes from, or adds to the original Contract Documents or Bidding Documents, as applicable.

The Contract Documents or Bidding Documents as applicable shall be modified to incorporate the following changes:

I. PROJECT MANUAL

A. Section 23 21 13 – HVAC Piping

1. Paragraph 2.05.A.1.a. Low Pressure Steam (Black Steel); DELETE paragraph in its entirety.
2. Paragraph 2.05.A.1.b. Condensate Return (Black Schedule 80 Steel); DELETE paragraph in its entirety.
3. Paragraph 2.05.1.e. Condenser Water (Black Steel); DELETE paragraph in its entirety.
4. Paragraph 2.07.E.; REVISE to “Valves for Chilled Water shall be as listed below:” in lieu of “Valves for Condenser Water shall be as listed below:”.

B. Section 23 82 23 – Unit Ventilators

1. Paragraph 3.01.A.1.; DELETE paragraph in its entirety.

II. DRAWINGS

A. Sheet T-1

1. General Demolition Notes; REVISE note 1. as follows:

“1. Perform demolition work as necessary to accomplish the work including the removal and proper disposal of items which are exposed and not to remain in use, including but not necessarily limited to electrical items, electrical devices, mechanical items, plumbing items, wall construction, ceiling construction, roof construction, etc. Contractor to coordinate exact location of required demolition with existing conditions, mechanical and electrical drawings, etc. - notify Architect of any discrepancies, Typ.”

B. Sheet A-2.1

1. To CLARIFY, existing piping to be capped at floor slab and not below floor in the existing tunnels.
2. ADD the following box note to Sheet A-2.2:

“Note:

1. Contractor shall not core piping through existing masonry walls within 18” horizontal (from centerline) or 16” vertical of existing floor and/or roof beam bearing points, VIF.”
3. Lower Level/First Floor Demolition Plan; Rooms 1, 2, 3, 4, 5, 6, 7, 8, 9, and 10; REVISE note pointing to existing Window Air Conditioning Units to read as follows:
“Remove existing window air conditioning unit, plexi-glazing infill, sealants, caulking, etc. in their entirety – Refer to Mech. and Electrical drawings for additional information – Typ. Return window air conditioning unit to the Owner.”
4. Lower Level/First Floor Demolition Plan; Rooms 11, 11A, and 13; REVISE note pointing to existing Window Air Conditioning Units to read as follows:
“Remove existing window air conditioning unit, plexi glass infill, caulking, metal screening etc. in their entirety – Refer to Mech. and Electrical drawings for additional information – Typ. Store metal screening for reinstallation. Return window air conditioning unit to the Owner.”

C. Sheet A-2.2

1. ADD the following box note to Sheet A-2.2:

“Note:

1. Contractor shall not core piping through existing masonry walls within 18” horizontal (from centerline) or 16” vertical of existing floor and/or roof beam bearing points, VIF.”
2. Second Floor Demolition Plan; Rooms 21, 22, 23, and 24; REVISE note pointing to existing Window Air Conditioning Units to read as follows:
“Remove existing window air conditioning unit, plexi-glazing infill, caulking, sealants, etc. in their entirety – Refer to Mech. and Electrical drawings for additional information – Typ. Return window air conditioning unit to the Owner.”

D. Sheet A-2.3

1. ADD the following box note to Sheet A-2.2:

“Note:

1. Contractor shall not core piping through existing masonry walls within 18” horizontal (from centerline) or 16” vertical of existing floor and/or roof beam bearing points, VIF.”
2. Third Floor Demolition Plan; Rooms 31, 32, 33, and 34; REVISE note pointing to existing Window Air Conditioning Units to read as follows:
“Remove existing window air conditioning unit, plexi-glazing infill, sealants, caulking, etc. in their entirety – Refer to Mech. and Electrical drawings for additional information – Typ. Return window air conditioning unit to the Owner.”

E. Sheet A-3.1

1. Existing Door Note; REVISE note to read as follows:
"Door tag indicates to provide 16 gauge metal enclosure piece on room side of door to close off existing door louver - metal enclosure to be provided with non-exposed fasteners – properly prep and paint metal enclosure – VIF."
2. Lower Level/First Floor Plan, Rooms 1, 2, 3, 4, 5, 6, 7, 8, 9, and 10; REVISE note pointing to where existing Window Air Conditioning Units were removed to read as follows:
"Provide dual tempered glazing, integral blinds, tint, Low e coating, sealants, missing hardware, etc. matching existing adjacent window units where window air conditioning units were removed for complete weathertight installation – Typ., VIF."
3. Lower Level/First Floor Plan, Rooms 11, 11A, and 13; REVISE note pointing to where existing Window Air Conditioning Units were removed to read as follows:
"Provide dual tempered glazing, integral blinds, tint, Low e coating, sealants, missing hardware, etc. matching existing adjacent window units where window air conditioning units were removed for complete weathertight installation and reinstall metal screening – Typ., VIF."
4. Lower Level/First Floor Plan, Room 16; ADD indication for vertical and horizontal mechanical piping along the west wall of Room 16, refer to mechanical drawings for additional information.
5. Lower Level/First Floor Plan, Rooms C101, C102, and C103; ADD the following note pointing to location of new electric cabinet heaters:
"Infill opening around new electric cabinet heater where existing cabinet heaters were removed with 5/8" abuse resistant gypsum board on 2 1/2" metal framing at 16" OC. Provide necessary metal framing to support new electric cabinet heater. Provide tear away bead where gypsum board meets existing masonry wall construction and prep and paint gypsum board - VIF, Typ."

F. Sheet A-3.2

1. Second Floor Plan, Rooms 21, 22, 23, and 24; REVISE note pointing to where existing Window Air Conditioning Units were removed to read as follows:
"Provide dual tempered glazing, integral blinds, tint, Low e coating, sealants, missing hardware, etc. matching existing adjacent window units where window air conditioning units were removed for complete weathertight installation – Typ., VIF."
2. Second Floor Plan, Rooms 21, 22, 23, and 24; ADD note pointing to insulated panels above where existing Window Air Conditioning Units were removed to read as follows:
"Contractor to properly cut existing insulated window panel to accommodate installation of mechanical relief louver – provide necessary metal support framing, aluminum trim, sealants, caulk, etc. to provide a complete weathertight installation. refer to mechanical drawings for additional information – VIF, Typ."

G. Sheet A-4.1

1. Lower/Level First Floor Reflected Ceiling Plan, Rooms T101 and T102; to CLARIFY the entire ceiling in these rooms should be prepped and painted.

2. Lower/Level First Floor Reflected Ceiling Plan, Room 17A; ADD the following note to room indicating the following:

“Sawcut and remove portion of existing ceiling as required to accommodate the work – properly patch, repair and paint entire ceiling – Typ.”

H. Sheet M-1.1

1. Lower Level/First Floor Mechanical HVAC Plan, Room T103; REVISE radiant heating panel tags to “RHP-1F” in lieu of “RHP-1”.
2. Lower Level/First Floor Mechanical HVAC Plan, Room 16; to CLARIFY Sheet Note 4. applies to horizontal piping run in addition to vertical piping run.
3. Lower Level/First Floor Mechanical HVAC Plan, Room 17B; ADD fire damper to S/A duct running through west wall of Room 17B.
4. Lower Level/First Floor Mechanical HVAC Plan, Room 17C; ADD thermostat for fan coil unit (FC-3F) in Room 17C on east wall north of door.
5. Lower Level/First Floor Mechanical HVAC Plan, Room 17E; ADD thermostat for unit vent (UV-1F) in Under Stage Storage 17E on east wall north of both doors.
6. Lower Level/First Floor Mechanical HVAC Plan, Rooms C101, C102, C103 and V101; REVISE electric cabinet heater tag to “ECH-1F” in lieu of “ECH-1”.

I. Sheet M-1.2

1. Second Floor Mechanical HVAC Plan, Room 21; REVISE unit ventilator tag to “UV-3F” in lieu of UV-3”.
2. Second Floor Mechanical HVAC Plan, Room 22; REVISE unit ventilator tag to “UV-3F” in lieu of UV-3”.
3. Second Floor Mechanical HVAC Plan, Room 23; REVISE unit ventilator tag to “UV-2F” in lieu of UV-2”.
4. Second Floor Mechanical HVAC Plan, Room 24; REVISE unit ventilator tag to “UV-2F” in lieu of UV-2”.
5. Second Floor Mechanical HVAC Plan, Room 16A; ADD thermostat to fan coil (FC-3F) east of existing door.
6. Second Floor Mechanical HVAC Plan, Room 16B; ADD thermostat to fan coil (FC-3F) east of existing door.
7. Second Floor Mechanical HVAC Plan, Room 25; ADD thermostat to fan coil (FC-3F) east of existing door.
8. Second Floor Mechanical HVAC Plan, Rooms 21, 22, 23, & 24; ADD barometric relief damper to relief duct indicated.

J. Sheet M-1.3

1. Third Floor Mechanical HVAC Plan, Rooms 31, 32, 33, and 34; REVISE outside air intake (OAI) louver sizes to “78”W x 10”H, VIF” in lieu of “72”W x 10”H”.
2. Third Floor Mechanical HVAC Plan, Rooms S301 and S302; ADD thermostat for AC-1F units at S301 and S302 west of door on north wall.

K. Sheet M-1.5

1. Hot Water/Chilled Water 2-Pipe System Piping Diagram; REVISE triple duty valve tag at HCP-1F to “TD-3” in lieu of “TD-5”.

2. Hot Water/Chilled Water 2-Pipe System Piping Diagram; REVISE triple duty valve tag at HCP-2F to "TD-4" in lieu of "TD-6".
3. Mechanical Boiler Room Plan, Room 17A; ADD fire damper to outside air intake (OAI) duct running through east wall of Room 17A.

L. Sheet M-2.1

1. DELETE Sheet M-2.1 in its entirety and REPLACE with revised Sheet M-2.1 dated 11-23-2021 included as part of this Addendum.

M. Sheet ED-1.1

1. Lower Level/First Floor Electrical Demolition Plan, Rooms 1, 2, 3, 4, 5, 6, 7, 8, 9, and 11; ADD the following note pointing to rooms:
"Remove existing two (2) ceiling fans (per room) and associated boxes, conduit, conductors, and controls – complete as required, VIF."
2. Lower Level/First Floor Electrical Demolition Plan, Room 11A; ADD the following note pointing to room:
"Remove existing ceiling fan and associated boxes, conduit, conductors, and controls – complete as required, VIF."
3. Lower Level/First Floor Electrical Demolition Plan, Room 6, 7, and 8; REVISE the lighting fixtures and ceiling mounted devices to be disconnected and reinstalled from the current west side of classrooms to the center of the classrooms to coordinate with the mechanical pipe routing on Sheet M-1.1.
4. Lower Level/ First Floor Electrical Demolition Plan, Rooms 5, 6, 7, 8, and 9; ADD the following note pointing to rooms:
"Disconnect and reinstall ceiling mounted devices as required to accommodate relief grille and duct routing indicated on Sheet M-1.1."

N. Sheet E-1.1

1. Lower Level/First Floor Electrical Plan, Room 6, 7, and 8; REVISE the lighting fixtures and ceiling mounted devices to be reinstalled from the current west side of classrooms to the center of the classrooms to coordinate with the mechanical pipe routing on Sheet M-1.1.

O. Sheet E-1.3

1. Third Floor Electrical Power Plan; REVISE tags to "AC-1F" in lieu of "AC-1".
2. Third Floor Electrical Power Plan; REVISE tags to "CU-1F" in lieu of "CU-1".

P. Sheet E-2.1

1. DELETE Sheet E-2.1 in its entirety and REPLACE with revised Sheet E-2.1 dated 11-23-2021 included as part of this Addendum.

Q. Sheet E-2.2

1. One-Line Diagram; REVISE one-line riser circuit breaker size trip for Chiller C-1F to "450A/3P" in lieu of as shown. REVISE feeder to "(2 Sets) 4 #4/0 & 1 #2 GRD – 2 1/2" C" in lieu of as shown.
2. Mechanical Equipment Connection Schedule; REVISE circuit breaker size for Chiller C-1F to "450A/3P" in lieu of as shown. REVISE feeder to "(2 Sets) 4 #4/0 & 1 #2 GRD – 2 1/2" C" in lieu of as shown.

3. Mechanical Equipment Connection Schedule; to CLARIFY the Chiller C-1F shall require an additional 120V, 20A circuit for heat trace system. Provide 2 #12 & 1 #12 GRD – $\frac{3}{4}$ " C to one (1) new 20A/1P circuit breaker in nearest 120/208V panel with available space and capacity and connect, complete as required.

END OF ADDENDUM NO. 2

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[illegible]

1. PROVIDE WITH:

- ROOF SUPPORTS
- RAILS
- VIBRATION ISOLATORS
- SOUND ATTENUATION
- CHILLER BUNDLE ELECTRIC HEATER WIRE/FACTORY INSTALLED
- POWER LINE CONNECTION TYPE SHALL BE STANDARD WITH A TIE-IN BLOCK
- SINGLE-POINT CIRCUIT BREAKER
- CONTROL TRANSFORMER
- LANGUAGE LCD AND KEYPAD DISPLAY
- WIRED/COULVERSED PANELS
- ULTRA QUIET FANS

SEE SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.

2. PROVIDE WITH:

- COMBUSTION AIR INTAKE DAMPER
- NEUTRALIZATION BASIN

SEE SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.

3. PROVIDE WITH:

- INTEGRATED ECONOMIZER WITH DIFFERENTIAL ENTHALPY SENSORS
- FEEDBACK SIGNAL w/ IECC 2015 COMPLIANT LOW LEAK

4. PROVIDE WITH:

- DO NOT RETURN AIR GRILLE
- NO OUTSIDE AIR INTAKE

SEE SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.

6. PROVIDE WITH:

- EACAMIZER DANGER
- 12" DIAM SCROLL (LIFT ONLY) OR VARIABLE SPEED COMPRESSORS
- 5/4" X POLI EXCH DIRECT DRIVE FANS W/VPD.
- NON-FLAMM DISCH LIFT SUCTION
- PHASE 4 BROWN-OUT PROTECTION
- HEATING ACCESS DOORS
- 12" DIAM ISOLATION CURB W/ HUSH-CORE DECK DS-82
- ACOUSTICAL TREATMENT.
- POWERED EXHAUST FAN W/BLDGD PRESSURIZATION
- 12" DIAM ISOLATION CURB
- MODULATING HOT GAS REHEAT AND DEHUMIDIFICATION CONTROLS
- FLUE DEFLECTOR
- METAL MESH OUTSIDE AIR INTAKE HOOD FILTER
- CONDENSER FAN W/VPD FOR HEATING POWER CONTROL
- 12" DIAM
- SINGLE ZONE YAW HEATING & COOLING
- LIQUID CONDENSER COIL GUARD PROTECTION
- HEATING COILS WITH MINIMUM 30% COOLING-50% VENTILATION-10% HEATING
- FILTERS: 4" MERV 15 4 2" MERV 8
- SEE SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.
- SEE SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.

4. PROVIDE WITH:

- TOP BARSTOCK GRILL WITH SCREENS
- ECM - HIGH EFFICIENCY MOTOR
- FACE AND BYPASS DAMPER
- COLD WEATHER DAMPER ASSEMBLY
- DDC READY UNIT
- 5 ROW HIGH CAPACITY WATER COIL
- 1AQ DRAIN PAN - STAINLESS STEEL
- 2" PLEATED FILTER (MERV 13)
- 1-YEAR PARTS ONLY WARRANTY
- DEMAND CONTROL VENTILATION
- 6" FAN SEABACK (EXCEPT WHERE NOTED ON MECHANICAL SCHEDULES)

SEE SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS

5. PROVIDE WITH:

- WALL SLEEVE AND LOUVER
- DISCONNECT SWITCH
- TERMINAL STRIPS FOR DDC READY
- UNIT CONFIGURATION:
 - BOTTOM SUPPLY AIR GRILLE

• NO OUTSIDE AIR INTAKE
SEE SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.

6. PROVIDE WITH:

- DISCONNECT SWITCH
- VIBRATION ISOLATION HANGERS
- TERMINAL STRIPS FOR DDC READY
- UNIT CONFIGURATION:
 - FRONT SUPPLY AIR DUCT COLLAR
 - BOTTOM RETURN AIR GRILLE
 - BACK OUTSIDE AIR INTAKE DUCT COLLAR

SEE SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.

7. PROVIDE WITH:

- DISCONNECT SWITCH
- VIBRATION ISOLATION HANGERS
- INTEGRAL 8/4 & R/A GRILLE
- TERMINAL STRIPS FOR DDC READY

SEE SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.

8. PROVIDE WITH:

- PROVIDE WITH DISCONNECT SWITCH
- ECM MOTOR WITH POTENTIOMETER SPEED CONTROLLER
- MOTORIZED DAMPER
- BIRD SCREEN
- ROOF CURB

SEE SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.

9. PROVIDE WITH:

- MOUNTING HARDWARE
- BATT INSULATION

SEE SPECIFICATIONS FOR ADDITIONAL INFORMATION.

10. PROVIDE WITH:
INDOOR UNIT:

- WIRED THERMOSTAT
- CONDENSATE PUMP
- VIBRATION ISOLATION HANGERS

OUTDOOR CU:

- WIND BAFFLES
- HAIL GUARDS
- 18" HIGH EQUIPMENT SUPPORT RAILS WITH SPRING ISOLATORS

SEE SPECIFICATIONS FOR ADDITIONAL INFORMATION.

PUMP SCHEDULE														
TAG	MANUFACTURER	MODEL NUMBER	DESCRIPTION	GPM	HEAD (FT.)	PUMP MOTOR DATA					STARTER:		SUCTION/ DISCHARGE SIZE	REMARKS
						HP	RPM	VOLT	PHASE	HZ.	MC.	EC.		
BP-F	BELL & GOSSETT	SERIES 80: 2.5x2.5x15	INLINE BOILER RECIRCULATION PUMP (B-1)	120	25	15	1750	208	3	60	X	-	2.5' / 2.5'	-
BP-2F	BELL & GOSSETT	SERIES 80: 2.5x2.5x15	INLINE BOILER RECIRCULATION PUMP (B-2)	120	25	15	1750	208	3	60	X	-	2.5' / 2.5'	-
CP-F	BELL & GOSSETT	SERIES 80: 3x3x1C	INLINE CHILLER RECIRCULATION PUMP (C-1)	120	30	3.0	1750	208	3	60	X	-	3' / 3'	-
HCP-F	BELL & GOSSETT	SERIES 80: 2x2x3.5C	BASE MOUNTED HOT/CHILLED WATER DISTRIBUTION PUMP	120	70	5	1750	208	3	60	X	-	2' / 2'	HOT/CHILLED WATER PRIMARY PUMPS W/VD OPERATING IN PARALLEL, 240 GPM AT 10 FT. HD. WITH DUAL POWER FEEDERS
HCP-2F	BELL & GOSSETT	SERIES 80: 2x2x3.5C	BASE MOUNTED HOT/CHILLED WATER DISTRIBUTION PUMP	120	70	5	1750	208	3	60	X	-	2' / 2'	

NATURAL GAS CONNECTION SCHEDULE				
TAG	DESCRIPTION	LOCATION	CAPACITY CFH	REMARKS
B-F	GAS FIRED H.W. CONDENSING BOILER w/SEALED COMBUSTION	1B - BOILER RM	1250	-
B-2F	GAS FIRED H.W. CONDENSING BOILER w/SEALED COMBUSTION	1B - BOILER RM	1250	-
RT-F	ROOF MOUNTED GAS FIRED / DX COOLING PACKAGED UNIT	ROOF	60	-
RT-2F	ROOF MOUNTED GAS FIRED / DX COOLING PACKAGED UNIT	ROOF	60	-
-	EXIST ROOF MOUNTED GAS FIRED/ DX COOLING PACKAGED UNIT	ROOF	405	-
-	EXIST DOMESTIC HOT WATER HEATER	1BA - BOILER RM	40	-
-	EXIST DOMESTIC HOT WATER HEATER	1B - BOILER RM	50	-
-	EXIST OVEN RANGE/OVEN	1TA - KITCHEN	50	ESTIMATED
TOTAL			3165	CFH @ 2 PSI

MECHANICAL EQUIPMENT SCHEDULE - ELECTRIC HEATERS																						
TAG	MANUFACTURER	MODEL NUMBER	DESCRIPTION	FAN DATA		ELECTRIC HEAT DATA				ELECTRICAL DATA								UNITS CONTROLLED	EQUIP WEIGHT	REMARKS		
				S/A	CM1	MBH	KW	EAT	LAT	HP	MCA	FLA	AMPS	MOPP	VOLT	PHASE	HZ				DISC. SWT.	
ECH-F	GMARK	LPK488F	WALL MOUNTED ELECTRIC CABINET HEATER	100	16.4	4.8	6.0	211	-	-	-	23.1	-	208	1	60	-	X	BY	INTEGRAL T-STAT	22	-

COMMISSIONING NOTE

1. COMMISSIONING: THE OWNER WILL HIRE A COMMISSIONING AGENCY (CXA) TO COMMISSION THE MECHANICAL SYSTEMS FOR THIS PROJECT. THE CXA WILL DEVELOP A COMMISSIONING PLAN THAT WILL OUTLINE THE REQUIREMENTS AND PROCEDURES FOR EACH COMMISSIONED SYSTEM AND WILL BE RESPONSIBLE THAT THE COMMISSIONING MEETS THE REQUIREMENTS OF THE CURRENT ENERGY CODE. THE COMMISSIONING PLAN WILL BE DEVELOPED AFTER CONTRACTS HAVE BEEN AWARDED AND PRIOR TO COMPLETION OF THE SYSTEMS TO BE COMMISSIONED.
2. PROVIDE REQUESTED INFORMATION TO THE CXA IN THEIR DEVELOPMENT OF THE COMMISSIONING PLAN PERTAINING TO THE MECHANICAL SYSTEMS, EQUIPMENT AND INSTALLATION.
3. PROVIDE START-UP AND TESTING AND BALANCING OF THE MECHANICAL SYSTEMS.
4. PROVIDE TESTING OF THE MECHANICAL SYSTEMS TO COMPLY WITH THE COMMISSIONING PLAN AND FOR DOCUMENTATION BY THE CXA.
5. RECTIFY DEFICIENCIES IDENTIFIED BY CXA - AND SUBMIT REPORTS INDICATING COMPLETION. PROVIDE ADDITIONAL TESTING TO COMPLY WITH THE COMMISSIONING PLAN AND FOR DOCUMENTATION BY THE CXA. CONTINUE THIS PROCESS UNTIL THE COMMISSIONING IS ACCEPTED BY THE CXA.
6. PROVIDE FINAL DOCUMENTATION REQUIREMENTS TO COMPLY WITH THE REQUIREMENTS OF THE COMMISSIONING PLAN.
7. COMPLETE THE REQUIREMENTS OF THE CONTRACT DOCUMENTS FOR ALL SYSTEMS INCLUDING THE COMMISSIONING REQUIREMENTS LISTED ABOVE.
8. THE FOLLOWING MECHANICAL SYSTEMS ARE TO BE COMMISSIONED.
 - A. ALL NEW HVAC EQUIPMENT.
 - B. TEMPERATURE CONTROLS

HEALY BENDER PATTON & BEEN
ARCHITECTS
4040 Helene Avenue
Naperville, Illinois 60564

ADDENDUM NO. 2
November 23, 2021

2022 MECHANICAL WORK
T.E. CULBERTSON ELEMENTARY SCHOOL
JOLIET, ILLINOIS
FOR
JOLIET PUBLIC SCHOOLS DISTRICT 86
JOLIET, WILL COUNTY, ILLINOIS
PROJECT NOS. 6-1621-39

This addendum shall be considered as part of the Contract Documents or Bidding Documents, as applicable, and shall govern insofar as it changes, deletes from, or adds to the original Contract Documents or Bidding Documents, as applicable.

The Contract Documents or Bidding Documents as applicable shall be modified to incorporate the following changes:

I. PROJECT MANUAL

A. Section 23 21 13 – HVAC Piping

1. Paragraph 2.05.A.1.a. Low Pressure Steam (Black Steel); DELETE in its entirety.
2. Paragraph 2.05.A.1.b. Condensate Return (Black Schedule 80 Steel); DELETE in its entirety.
3. Paragraph 2.05.1.e. Condenser Water (Black Steel); DELETE in its entirety.
4. Paragraph 2.07.E.; REVISE to “Valves for Chilled Water shall be as listed below:” in lieu of “Valves for Condenser Water shall be as listed below:”.

B. Section 23 82 23 – Unit Ventilators

1. Paragraph 3.01.A.1.; DELETE paragraph in its entirety.

II. DRAWINGS

A. Sheet T-1

1. General Demolition Notes; REVISE note 1. as follows:

“1. Perform demolition work as necessary to accomplish the work including the removal and proper disposal of items which are exposed and not to remain in use, including but not necessarily limited to electrical items, electrical devices, mechanical items, plumbing items, wall construction, ceiling construction, roof construction, etc. Contractor to coordinate exact location of required demolition with existing conditions, mechanical and electrical drawings, etc. - notify Architect of any discrepancies, Typ.”

B. Sheet A-2.2

1. To CLARIFY; existing piping to be capped at floor slab and not below floor slab in the existing tunnels.
2. ADD the following box note to Sheet A-2.2:

"Note:

1. Contractor shall not core piping through existing masonry walls within 18" horizontal (from centerline) or 16" vertical of existing floor and/or roof beam bearing points - VIF."
3. First Floor Demolition Plan, Rooms 112 and 112A; REVISE note pointing to existing Window Air Conditioning Units to read as follows:
"Remove existing window air conditioning units, window paneling around units, sealants, and caulk in their entirety – Refer to Mech. And Electrical drawings for additional information – Typ. Return window air conditioning unit to the Owner."

C. Sheet A-2.3

1. ADD the following box note to Sheet A-2.3:

"Note:

1. Contractor shall not core piping through existing masonry walls within 18" horizontal (from centerline) or 16" vertical of existing floor and/or roof beam bearing points - VIF."
2. Second Floor Demolition Plan, Room 17; ADD the following note pointing to existing mechanical equipment to be removed on north wall:
"Remove existing fin tube system in its entirety. Refer to mechanical and electrical drawings for additional information – VIF, Typ."
3. Second Floor Demolition Plan, C201 north of Rooms 9 and 12; REVISE the notes calling the removal of low mechanical louver to read as follows:
"Contractor to coordinate work required at low and high existing mechanical louvers with mechanical drawings – Patch to match existing construction as req'd - VIF, Typ."

D. Sheet A-3.2

1. Existing Door Note; REVISE note to read as follows:
"Door tag indicates to provide 16 gauge metal enclosure piece on room side of door to close off existing door louver - metal enclosure to be provided with non-exposed fasteners – properly prep and paint metal enclosure – VIF."
2. First Floor Plan, Room 5; ADD the following note pointing to existing casework:
"Modify existing casework and countertops as required to accommodate plumbing work. Patch to match existing construction to match adjacent surfaces. Refer to Plumbing drawings for additional information."
3. First Floor Plan, Rooms 112 and 112A; REVISE note pointing to window unit infill to read as follows:
"Provide aluminum window infill units with dual tempered glazing, integral blinds, tint, Low e coating, sealants, missing hardware, etc. matching existing adjacent window units where window air conditioning units were removed for complete weathertight installation – Typ., VIF."
4. First Floor Plan, Room 101: ADD the following note pointing to wall patching indicated:
"Infill opening where mechanical equipment was removed with metal framing and gypsum board on both sides of metal framing matching adjacent thickness and sizes. Patch to match existing adjacent construction for complete installation – VIF."

5. First Floor Plan, Room T101 and 2B; ADD the following note pointing to rooms:

“Patch to match existing wall and floor construction as required to accommodate the installation of new mechanical ductwork – VIF. Refer to mechanical drawings for additional information.”

E. Sheet A-3.3

1. Existing Door Note; REVISE note to read as follows:

“Door tag indicates to provide 16 gauge metal enclosure piece on room side of door to close off existing door louver - metal enclosure to be provided with non-exposed fasteners – properly prep and paint metal enclosure – VIF.”

2. Second Floor Plan, Rooms 9 and 12; DELETE the door tags “9A”, “9B”, “12A”, and “12B” from floor plan in their entirety. To CLARIFY the existing doors do not require work.
3. Second Floor Plan, Room 8; ADD door tag call out for “Door 8 with vertical lines” to existing corridor door. To CLARIFY the existing door receives work as noted in “Existing Door Note” on Sheet A-3.3.

F. Sheet A-4.2

1. Ceiling Note; ADD the following paragraph to box note:

“Contractor to provide new ceiling tiles where new mechanical piping, conduits, ductwork, etc. penetrates existing ceiling tiles – VIF.”

2. First Floor Reflected Ceiling Plan, Room 6; DELETE indication of HVAC return grille from ceiling plan.
3. First Floor Reflected Ceiling Plan, Room 1; To CLARIFY, the new exposed ductwork indicated should be located at the existing wall between Rooms 1 and 2. Coordinate with mechanical drawings.
4. First Floor Reflected Ceiling Plan, Room T101 and T102; REVISE the note pointing to new work to be as follows:

“Recessed mechanical unit – sawcut and remove portion of existing ceiling as required to accommodate the work. Properly patch and repair existing ceiling as required for complete installation. Prep and paint entire ceiling – Typ.”

5. First Floor Reflected Ceiling Plan, Room T101, 2B, and small closet off Room 4; ADD the following note pointing to ceilings:

“Sawcut and remove portion of existing ceiling as required to accommodate new mechanical work. Properly patch and repair existing ceiling as required for complete installation. Prep and paint entire ceiling – Typ.”

G. Sheet A4.3

1. Ceiling Note; ADD the following paragraph to box note:

“Contractor to provide new ceiling tiles where new mechanical piping, conduits, ductwork, etc. penetrates existing ceiling tiles – VIF.”

2. Second Floor Reflected Ceiling Plan, Room 12A and 14A; ADD the following note pointing to ceilings:

“Sawcut and remove portion of existing ceiling as required to accommodate new mechanical work. Properly patch and repair existing ceiling as required for complete installation. Prep and paint entire ceiling – Typ.”

3. Second Floor Reflected Ceiling Plan, Room 9A; ADD the following note pointing to ceiling:

“Ceiling to be removed by Owner under separate contract. This Contractor to provide 5/8” gypsum board ceiling on metal suspension to accommodate the mechanical work. Prep and paint ceiling.”

H. Sheet A-5

1. Roofing Notes At Roof ‘A’, ‘B’, ‘C’, ‘D’, ‘E’, and ‘F’; ADD the following note:

“3. Contractor to provide pipe boots, pipe curbs, equipment curbs for new mechanical equipment work whether shown or not. Coordinate roof work with mechanical and electrical drawings – Typ.”

I. Sheet A-6.1

1. Details 1/A-6.1 and 2/A-6.1; ADD the following note pointing to the face brick:

“4” Face Brick – Match Existing”

J. Sheet A-6.2

1. Detail 3/A-6.2; REVISE note pointing to horizontal wall reinforcement to read as follows:

“Horiz. Reinf. at 16” OC Vert. – Typ.”

2. Detail 6/A-6.2; ADD the following note pointing to wood nailers:

“(2) Cont. 2x4 Wd. Nailers & (1) Cont. Ripped 2x4 Wd. Nailer Secured to CMU Const. w/ Countersunk Anchors”

K. Sheet S-2.2

1. High Roof Framing Plan, Room 11; to CLARIFY the arrow calling for the Stl. L6x4x5/16 should be pointing to the dashed lines for the new mechanical opening, typical.
2. High Roof Framing Plan, Room 17; ADD the indication and callout tag for steel lintel “L-3” at exterior wall. Coordinate with mechanical drawings.

L. Sheet S-3

1. Detail 2/S-3; ADD the following note pointing to control joint:

“Saw cut morning after conc. is poured – after 7 days flush jt. w/ water or air under pressure & fill with jt. Sealer equal to Isoflex urethane sealant.”

M. Sheet MD-1.1

1. First Floor Mechanical Demolition Plan, Room 104; ADD the following note pointing to the north wall:

“Remove existing wall mounted fan and associated electrical connections, controls, etc. – complete as required, VIF.”

2. First Floor Mechanical Demolition Plan, Rooms C101, C102, and C103; ADD the following note pointing to room:

“Abandon existing relief air grilles and provide blank-off panel from behind at Corridors C101, C102, and C103, VIF”

3. First Floor Mechanical Demolition Plan, Rooms C101, C102, and C103; ADD the following note pointing to room:

“Abandon existing transfer air grilles and provide blank-off panel from behind at Corridors C101, C102, and C103, VIF”

4. First Floor Mechanical Demolition Plan, Room 103; ADD the following note pointing to room:

“Remove existing mechanical equipment as req’d to accommodate the work, VIF”

N. Sheet MD-1.2

1. Second Floor Mechanical Demolition Plan, Rooms 202 and 203; ADD the following note pointing to the rooms:

“Remove existing HVAC unit, in Rooms 202 and 203, associated supply duct, return duct, outside air ductwork, thermostat, control tubing/wiring, steam piping, condensate return piping, valves, electrical connections, etc. complete as required. Removed existing outside air ductwork and associated controls, damper, etc. complete as required. Existing louver is to be abandoned – provide new insulated (min. R30) galvanized sheet metal panel to blank-off louver opening on inside of building – seal weathertight as required. Existing supply register and return grille to be abandoned – provide new sheet metal panel to blank-off louver opening on inside of Storage Room and seal airtight.”

2. Second Floor Mechanical Demolition Plan, Room C201 north of Rooms 109 and 112; ADD the following note to corridor:

“Abandon existing transfer air grilles and blank-off from behind in Corridor C201 from rooms 109 and 112, VIF”

3. Second Floor Mechanical Demolition Plan, Room C201; ADD the following note pointing to room:

“Abandon existing relief air grilles and blank-off from behind in C201, VIF”

O. Sheet MD-1.3

1. Roof Mechanical Demolition Plan; ADD the following note pointing to roof areas:

“Remove existing roof mounted relief hoods and associated ductwork, etc. complete as required. Existing roof curb to remain abandoned – cap curb opening with insulated roof cap (R30 min), VIF”

P. Sheet M-1.2

1. DELETE Sheet M-1.2 in its entirety and REPLACE with revised sheet M-1.2 dated 11-23-2021 included as part of this Addendum.

Q. Sheet M-1.3

1. DELETE Sheet M-1.3 in its entirety and REPLACE with revised sheet M-1.3 dated 11-23-2021 included as part of this Addendum.

R. Sheet M-2.1

1. DELETE Sheet M-2.1 in its entirety and REPLACE with revised sheet M-2.1 dated 11-23-2021 included as part of this Addendum.

S. Sheet ED-1.2

1. First Floor Electrical Demolition Plan, Rooms 101A and 103; ADD the following note pointing to rooms:

"Disconnect and remove existing electrical cabinet heaters in rooms 101A and 103, complete as required, VIF."

2. First Floor Electrical Demolition Plan, Rooms 101 and 104; ADD the following note pointing to rooms:

"Remove existing electrical connection serving wall fan located between 101 and 104 - complete as required, VIF."

T. Sheet ED-1.3

1. Second Floor Electrical Demolition Plan, Rooms 202 and 203; ADD the following note pointing to rooms:

"Disconnect and remove existing electrical connection from abandoned HVAC equipment in Rooms 202 and 203 - complete as required, VIF."

U. Sheet E-1.2

1. First Floor Electrical Power Plan; Chiller; REVISE the chiller tag to "C-1C" in lieu of "C-1".
2. First Floor Electrical Power Plan, Room 114; REVISE the unit heater tag to "UH-1C" in lieu of "UH-1".
3. First Floor Electrical Power Plan, Room V103; REVISE electric heater tag to be "ECH-2" in lieu of "EBB-2".
4. First Floor Electrical Power Plan, Rooms 101A and 103; ADD the following note pointing to rooms:

"Provide one (1) new PTAC unit in Room 101A and one (1) new PTAC unit in Room 103. Refer to mechanical drawings for location. For each unit provide one (1) new disconnect switch and one (1) 20A/2P connection to one (1) new 20A/2P circuit breaker in existing panel PP-1 via 3 #12 & 1 #12 GRD – ¾" C., complete as required."

5. First Floor Electrical Power Plan, Room C101, C102, C103; REVISE fan coil tags to "FC-5C" in lieu of "FC-6C".
6. First Floor Electrical Power Plan, Room 101A; ADD the following note pointing to room:

"Add four (4) duct smoke detector remote test stations in Room 101A, VIF."

V. Sheet E-1.3

1. Second Floor Electrical Power Plan, Rooms 101 and 104; ADD the following note pointing to the upper portions of room:

"Add smoke duct detectors in existing packaged HVAC Rooftop Units above Rooms 101 and 104 for the supply air and return air, VIF."

W. Sheet E-2.2

1. DELETE Sheet E-2.2 in its entirety and REPLACE with revised sheet E-2.2 dated 11-23-2021 included as part of this Addendum.

END OF ADDENDUM NO. 2

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SHEET NOTES

1. EXTEND CONDENSATE PIPING FROM UNIT THRU WALL. TERMINATE WITH 45 DEGREE ELBOW DOWN TO GRADE. SLEEVE AND SEAL PIPE THROUGH WALL PENETRATION WEATHERTIGHT.
2. MODIFY EXISTING WALL OPENING FOR NEW OUTSIDE AIR INTAKE LOUVER. COORDINATE OUTSIDE AIR INTAKE LOUVER WITH INSTALLATION OF NEW UNIT VENTILATOR COMPLETE AS REQUIRED.
3. ROUTE NEW HOT/CILLED WATER PIPING IN HORIZONTAL PIPE CHASE.
4. CLEAN AND REINSTALL EXISTING SUPPLY AIR DIFFUSER COMPLETE AS REQUIRED. RECONNECT EXISTING DUCTWORK COMPLETE AS REQUIRED. BALANCE EXISTING SUPPLY AIR DIFFUSER TO EXISTING AIRFLOW CAPACITY.
5. CLEAN AND REINSTALL EXISTING RETURN AIR GRILLE COMPLETE AS REQUIRED. RECONNECT EXISTING DUCTWORK COMPLETE AS REQUIRED. BALANCE EXISTING RETURN AIR GRILLE TO EXISTING AIRFLOW CAPACITY.
6. 3/4" CONDENSATE DRAIN FROM SECOND FLOOR. ROUTE 3/4" CONDENSATE DRAIN THROUGH FIRST FLOOR UNIT VENTILATOR AND CONNECT TO 3/4" CONDENSATE DRAIN AT WALL. PENETRATION.
7. PVC JACKET COVERING SHALL BE PROVIDED FOR HVAC PIPING (INCLUDING CONDENSATE) THAT IS TO BE MOUNTED BELOW CEILING OR BELOW 9'-0" ABOVE FINISHED FLOOR.

ROOM INDEX

FIRST FLOOR	
1	CLASSROOM
1A	STORAGE
1B	STORAGE
1C	TOILET
2	CLASSROOM
2A	TOILET
2B	STORAGE
3	CLASSROOM
4	CLASSROOM
5	CLASSROOM
6	CLASSROOM
7	CLASSROOM
101	GYMNASIUM
101A	STORAGE
102	STORAGE
103	KITCHEN
104	LIBRARY
105	STORAGE
106	TEACHER LOUNGE
107	WORK ROOM
108	JANITOR
109	JANITOR
110	NURSE
110A	TOILET
111	SOCIAL WORKER
111A	TOILET
112	MAN OFFICE
112A	PRINCIPAL
112B	WORK ROOM
112C	STORAGE
113	CONFERENCE ROOM
C101	CORRIDOR
C102	CORRIDOR
C103	CORRIDOR
C104	CORRIDOR
C105	CORRIDOR
S101	STAIR #1
S102	STAIR #2
S103	STAIR #3
T101	BOYS
T102	GIRLS
V101	VESTIBULE
V102	VESTIBULE
V103	VESTIBULE

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T.E. CULBERTSON ELEMENTARY SCHOOL
JOLIET, ILLINOISFOR
JOLIET PUBLIC SCHOOLS DISTRICT 86
JOLIET, WILL COUNTY, ILLINOISREVISIONS
NO. 1
DATE 11-23-2021
DESCRIPTION ADDENDUM NO. 2

PROJECT NO. 6-1621-39

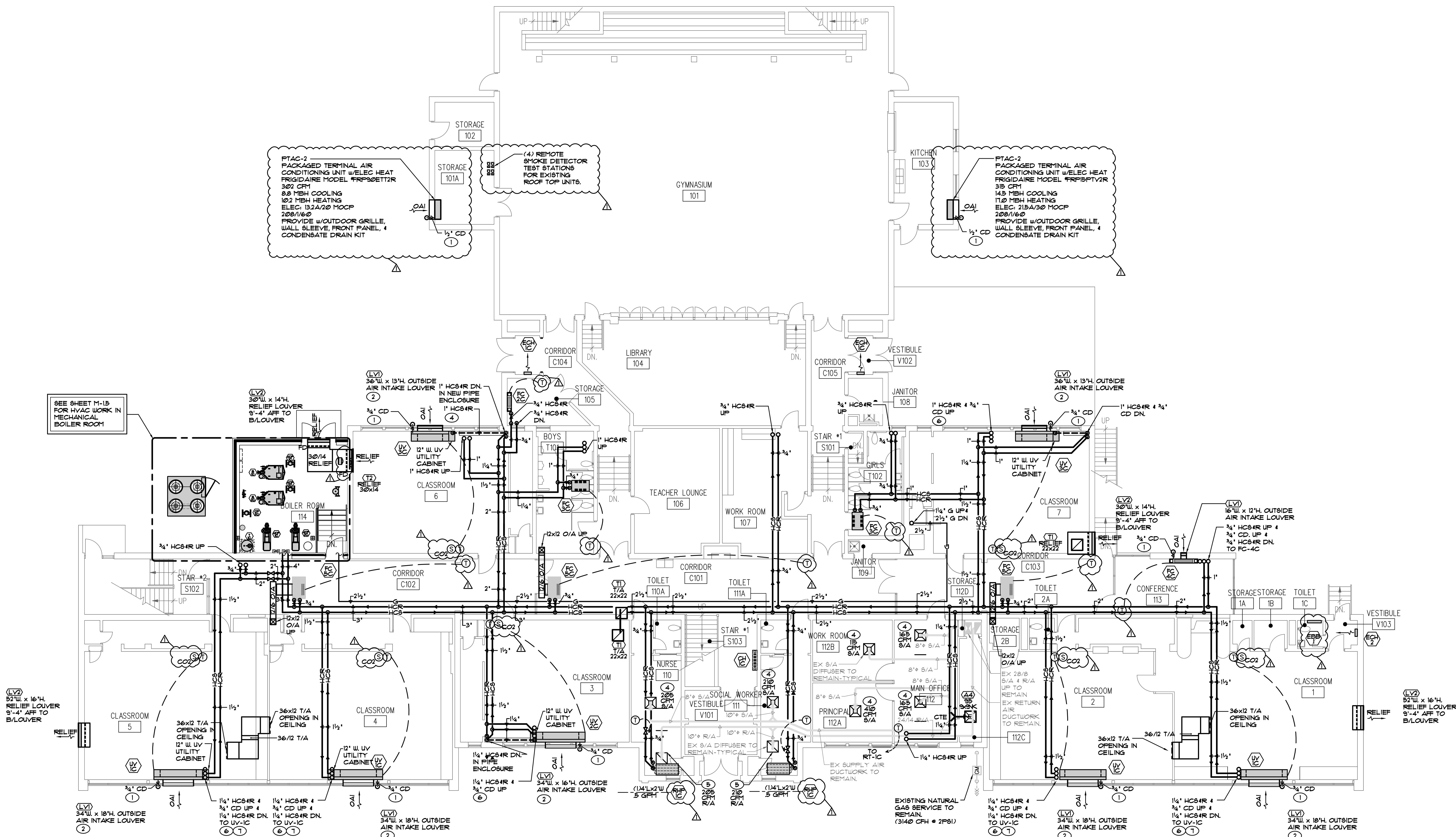
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DATE 11-08-2021

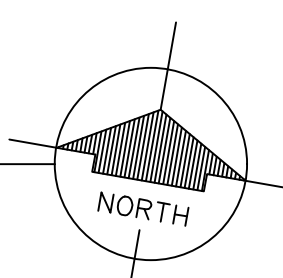
SHEET NO.

M-1.2

OF 8

FIRST FLOOR MECHANICAL HVAC PLAN
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FIRST FLOOR MECHANICAL HVAC PLAN

1/8" = 1'-0"
0 2 4 8 16 24

SHEET NOTES

1. MODIFY EXISTING WALL OPENING FOR NEW OUTSIDE AIR INTAKE LOUVER. COORDINATE OUTSIDE AIR INTAKE LOUVER WITH INSTALLATION OF NEW UNIT VENTILATOR COMPLETE AS REQUIRED.

2. ROUTE PIPING IN NEW PIPE CHASE COMPLETE AS REQUIRED.

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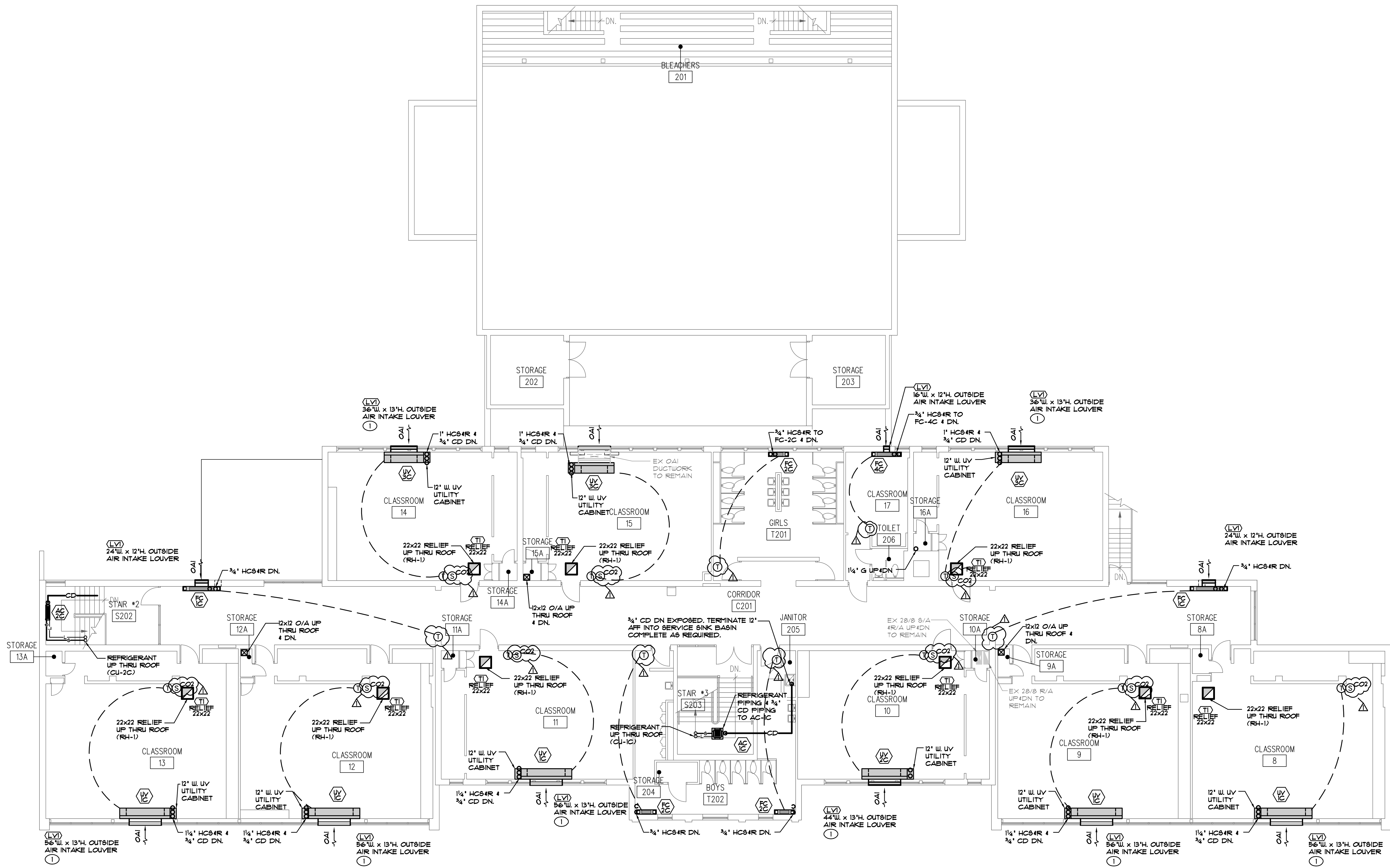
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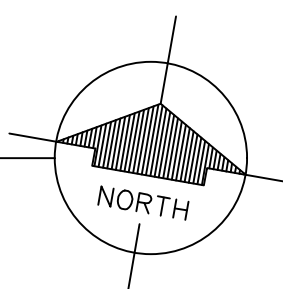
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2022 MECHANICAL WORK
T.E. CULBERTSON ELEMENTARY SCHOOL
FOR
JOLIET, ILLINOIS
JOLIET PUBLIC SCHOOLS DISTRICT 86
JOLIET, WILL COUNTY, ILLINOIS



SECOND FLOOR MECHANICAL HVAC PLAN



REVISIONS

NO. 1

DATE 11-23-2021

DESCRIPTION ADDENDUM NO. 2

PROJ NO. 6-1621-39

DESIGNED BY GL

DATE 11-08-2021

SHEET NO. M-1.3

OF 8

SECOND FLOOR MECHANICAL HVAC PLAN
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SYMBOL LIST

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MECHANICAL EQUIPMENT CONNECTION SCHEDULE

TAG	DESCRIPTION	LOAD					MOCP	VOLT	PHASE	PANEL	CKT. NO.	FUSED SWITCH	FEEDER		STARTER BY:		LOCATION	REMARKS
		WATTS	HP	MCA	FLA	AMPS							C/B	CABLE	C	MC		
C-1C	CHILLER	134220	-	313	-	-	400	208	3	MDP	MDP	400A/3P	4 1500KCMIL 4 1 1/2 GRD.	3'	X	-	-	-
B-1C	BOILER	960	-	8	-	-	15	120	1	MP-1	MP-1	15A/1P	2 1/2 4 1 1/2 GRD.	3/4'	X	-	-	-
B-2C	BOILER	960	-	8	-	-	15	120	1	MP-1	MP-1	15A/1P	2 1/2 4 1 1/2 GRD.	3/4'	X	-	-	-
RT-1C	ROOF TOP UNIT	11875	-	-	33	-	50	208	3	MDP	MDP	50A/3P	4 1/2 4 1 1/2 GRD.	3/4'	X	-	-	-
UV-1C	UNIT VENTILATOR	708	-	5.9	-	-	15	120	1	VARIES	VARIES	15A/1P	2 1/2 4 1 1/2 GRD.	3/4'	X	-	-	-
UV-2C	UNIT VENTILATOR	708	-	5.9	-	-	15	120	1	VARIES	VARIES	15A/1P	2 1/2 4 1 1/2 GRD.	3/4'	X	-	-	-
UV-3C	UNIT VENTILATOR		-		-	-	15	120	1	VARIES	VARIES	15A/1P	2 1/2 4 1 1/2 GRD.	3/4'				
FC-1C	FAN COIL UNIT	600	-	5	-	-	15	120	1	VARIES	VARIES	15A/1P	2 1/2 4 1 1/2 GRD.	3/4'	X	-	-	-
FC-2C	FAN COIL UNIT	240	-	2	-	-	15	120	1	VARIES	VARIES	15A/1P	2 1/2 4 1 1/2 GRD.	3/4'	X	-	-	-
FC-3C	FAN COIL UNIT	240	-					120	1	VARIES	VARIES	15A/1P	2 1/2 4 1 1/2 GRD.	3/4'				
FC-4C	FAN COIL UNIT	134220	-	3	-	-	15	120	1	VARIES	VARIES	15A/1P	2 1/2 4 1 1/2 GRD.	3/4'	X	-	-	-
FC-5C	FAN COIL UNIT		-		-	-		120	1	VARIES	VARIES	15A/1P	2 1/2 4 1 1/2 GRD.	3/4'				
CH-1C	CABINET HEATER	960	-					120	1	VARIES	VARIES	15A/1P	2 1/2 4 1 1/2 GRD.	3/4'				
UH-1C	UNIT HEATER	960	-	-	-	-	-	120	1	VARIES	VARIES	15A/1P	2 1/2 4 1 1/2 GRD.	3/4'	-	X	-	-
HX-1C	HEAT EXCHANGER	11875	-	-	-	-	-	-	-	VARIES	VARIES	15A/1P	2 1/2 4 1 1/2 GRD.	3/4'	-	-	-	-
AC-1/CU-1	CEILING CASSETTE / ROOF MTD AIR COOLED CONDENSING UNIT						15	208	1	VARIES	VARIES	15A/2P	3 1/2 4 1 1/2 GRD.	3/4'				
AC-2/CU-2	WALL MTD AC / ROOF MTD AIR COOLED CONDENSING UNIT						15	208	1	VARIES	VARIES	15A/2P	3 1/2 4 1 1/2 GRD.	3/4'				
HX-1C	HEAT EXCHANGER	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RHP-1C	4'-0" x 2'-0" CEILING MTD HOT WATER RADIANT HEAT PANEL	708	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BP-1C	BOILER PUMP	2375	2	-	-	-	-	208	3	MP-1	MP-1	15A/3P	4 1/2 4 1 1/2 GRD.	3/4'	-	-	-	-
BP-2C	BOILER PUMP	2375	2	-	-	-	-	208	3	MP-1	MP-1	15A/3P	4 1/2 4 1 1/2 GRD.	3/4'	-	-	-	-
CP-1C	CHILLER PUMP	2699	2	-	-	-	-	208	3	MP-1	MP-1	15A/3P	4 1/2 4 1 1/2 GRD.	3/4'	-	-	-	-
HCP-1C	HOT/CHILLED WATER PUMP	6009	5	-	-	-	-	208	3	MP-1	MP-1	35A/3P	4 1/2 4 1 1/2 GRD.	3/4'	-	-	-	-
HCP-2C	HOT/CHILLED WATER PUMP	6009	5	-	-	-	-	208	3	MP-1	MP-1	35A/3P	4 1/2 4 1 1/2 GRD.	3/4'	-	-	-	-

REFER TO WRITTEN NARRATIVE FOR ADDITIONAL MECHANICAL EQUIPMENT CONNECTION SCHEDULE CHANGES NOT SHOWN HERE.

MECHANICAL EQUIPMENT CONNECTION SCHEDULE

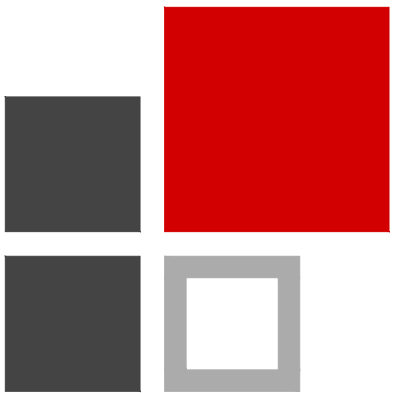
TAG	DESCRIPTION	LOAD					MOCP	VOLT	PHASE	PANEL	CKT. NO.	FUSED SWITCH C/B	FEEDER		STARTER BY:		LOCATION	REMARKS	
		WATTS	HP	MCA	FLA	AMPS							C/B	CABLE	C	MC			EC
ECH-1	WALL MOUNTED ELECTRIC CABINET HEATER	-	-	-	-	23.1	-	208	1	VARIES	VARIES	30A/2P	3 1/2 4 1 1/2 GRD.	3/4'	-	X	-	-	
ECH-2	WALL MOUNTED ELECTRIC CABINET HEATER	-	-	-	-	14.4	-	208	1	VARIES	VARIES	20A/2P	3 1/2 4 1 1/2 GRD.	3/4'	-	X	-	-	
EUH-1	UNIT HEATER	-	-	-	-	56	-	208	1	MDP	MDP	10A/3P	4 1/4 4 1 1/2 GRD.	1'	-	X			
EBB-1	ELECTRIC BASEBOARD HEATER	-	-	-	-	2.4	-	208	1	VARIES	VARIES	15A/2P	3 1/2 4 1 1/2 GRD.	3/4'	-	X			

CULBERTSON MP-1

TOTAL KW: 26.1			ENCLOSURE: NEMA-1			PHASE: 3Ø			VOLTAGE: 120 / 208					
MOUNTING: SURFACE			BUSHING: COPPER			FAULT CURRENT RATING: 22000 AIC			MLOX AMPS: 100					
FEEDER: 4 1/2 1 1/2 GRD. - 1 1/2" C.			LOCATION:											
LOAD DESCRIPTION	TRIP	POLE	C/B			LOAD			C/B			LOAD DESCRIPTION		
			A*	B*	C*	CCT. NO.	A*	B*	C*	TRIP	POLE			
CP-1C	15	3				1	2			15	1	B-1C		
						3	4		1000		15	1	B-2C	
						5	6			1200		20	1	TC PNL8
HCP-1C	35	3				7	8		600		15	UH-1		
						9	10		200		20	1	FN-1	
						11	12			86.4		20	1	SE-1
HCP-2C	35	3				13	14		936					
						15	16			936		15	3	BP-1C
						17	18			936				
6SPACE						19	20							
6SPACE						21	22							
6SPACE						23	24			936				
6SPACE						25	26							
6SPACE						27	28							
6SPACE						29	30							
6SPACE						31	32							
6SPACE						33	34							
6SPACE						35	36							
6SPACE						37	38							
6SPACE						39	40							
6SPACE						41	42							
			5120	5120	5120				3472	3072	3936			

NOTE: REFER TO GENERAL NOTE "B" FOR ADDITIONAL INFORMATION

A = 86.12
B = 82.72
C = 91.36
TOTAL = 26,880

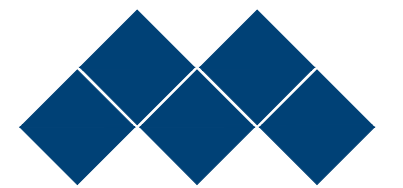


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2022 MECHANICAL WORK
T.E. CULBERTSON ELEMENTARY SCHOOL
JOLIET, ILLINOIS

FOR
JOLIET PUBLIC SCHOOLS DISTRICT 86
JOLIET, WILL COUNTY, ILLINOIS

REVISIONS
NO. 1
DATE 11-23-2021
DESCRIPTION ADDENDUM NO. 2

PROJ. NO.
6-1621-39

DRAWN BY
MG

DATE
11-08-2021

SHEET NO.

E-2.2

OF 5

HEALY BENDER PATTON & BEEN
ARCHITECTS
4040 Helene Avenue
Naperville, Illinois 60564

ADDENDUM NO. 2
November 23, 2021

2022 MECHANICAL WORK
EISENHOWER ACADEMY
JOLIET, ILLINOIS
FOR
JOLIET PUBLIC SCHOOLS DISTRICT 86
JOLIET, WILL COUNTY, ILLINOIS
PROJECT NOS. 6-1621-40

This addendum shall be considered as part of the Contract Documents or Bidding Documents, as applicable, and shall govern insofar as it changes, deletes from, or adds to the original Contract Documents or Bidding Documents, as applicable.

The Contract Documents or Bidding Documents as applicable shall be modified to incorporate the following changes:

I. PROJECT MANUAL

A. Section 23 21 13 – HVAC Piping

1. Paragraph 2.05.A.1.a. Low Pressure Steam (Black Steel); DELETE paragraph in its entirety.
2. Paragraph 2.05.A.1.b. Condensate Return (Black Schedule 80 Steel); DELETE paragraph in its entirety.
3. Paragraph 2.05.1.e. Condenser Water (Black Steel); DELETE paragraph in its entirety.
4. Paragraph 2.07.E.; REVISE to “Valves for Chilled Water shall be as listed below:” in lieu of “Valves for Condenser Water shall be as listed below:”.

B. Section 23 82 23 – Unit Ventilators

1. Paragraph 3.01.A.1.; DELETE paragraph in its entirety.

II. DRAWINGS

A. Sheet T-1

1. General Demolition Notes; REVISE note 1. as follows:

“1. Perform demolition work as necessary to accomplish the work including the removal and proper disposal of items which are exposed and not to remain in use, including but not necessarily limited to electrical items, electrical devices, mechanical items, plumbing items, wall construction, ceiling construction, roof construction, etc. Contractor to coordinate exact location of required demolition with existing conditions, mechanical and electrical drawings, etc. - notify Architect of any discrepancies, Typ.”

B. Sheet A-2

1. ADD the following box note to Sheet A-2:

“Note:

1. Contractor shall not core piping through existing masonry walls within 18” horizontal (from centerline) or 16” vertical of existing floor and/or roof beam bearing points, VIF.”
2. Demolition Floor Plan, Room 4A; ADD the following note pointing to room:
“Remove existing ceiling mounted mechanical unit as required, patch to match existing construction as required. Refer to mechanical and electrical drawings for additional information”
3. Demolition Floor Plan, Rooms 4A, S6, S7, and Upper Stage; ADD the following note pointing to rooms:
“Remove existing wall exhaust units at exterior walls. Patch to match existing masonry wall construction as required to accommodate work. Tooth-in masonry for complete installation – typical”
4. Demolition Floor Plan, Room C2 and C3; ADD the following not pointing to existing corridors:
“Sawcut and remove portion of existing PC insulated roof deck, roofing system, etc. whether shown or not to accommodate mechanical work. Refer to mechanical drawings for additional information – VIF,Typ.”

C. Sheet A-3

1. Existing Door Note; REVISE note to read as follows:
“Door tag indicates to provide 16 gauge metal enclosure piece on room side of door to close off existing door louver - metal enclosure to be provided with non-exposed fasteners – properly prep and paint metal enclosure – VIF.”
2. Floor Plan, Rooms 18A and 18B;
 - a. DELETE cross hatch pattern in its entirety. To CLARIFY no new flooring work required at these rooms.
 - b. ADD the following note pointing to west exterior walls:
“Tuckpoint newly exposed masonry wall construction. Properly prep and paint to match existing adjacent - VIF.”
3. Floor Plan, Rooms C1, C2 and C3; ADD the following note pointing to the locations of new electric cabinet heaters:
“Contractor to locate new electric cabinet heater at the top of the existing opening. Infill opening around new electric cabinet heater with CMU matching existing adjacent wall thickness. Tooth-in masonry for complete installation. Prep and paint to match existing adjacent construction – VIF, Typ.”

D. Sheet A-4

1. To CLARIFY, long dashed lines in exposed ceilings areas indicates exposed mechanical piping. Coordinate with mechanical drawings, typ.
2. Reflected Ceiling Plan, Rooms 18A and 18B; REVISE the note for the Radiant Heating Panels as follows:

“Susp. Radiant Heating Panel – See Mech. Drawings for additional information. Contractor to provide necessary radiant heating panel edge trims, supports, etc. for exposed ceiling installation – VIF, Typ.”

E. Sheet A-5

1. Roofing Notes At Roof ‘A’, ‘B’, and ‘C’; ADD the following note:

“3. Contractor to provide pipe boots, pipe curbs, equipment curbs for new mechanical equipment work whether shown or not. Coordinate roof work with mechanical and electrical drawings – Typ.”

F. Sheet S-2

1. Roof Framing Plan, Room 8; ADD indication and the following note for new opening between existing bulb tees for new Chiller Piping penetrations:

“Stl. L6x4x5/16, LLH, Fr. welded to existing bulb tees to supt. mech. equip. and curb above – Typ.”

2. Roof Framing Plan, Rooms 1 and 2; DELETE the indication of a roof opening at the existing wall between Rooms 1 and 2.

G. Sheet MD-1.1

1. Mechanical Demolition Plan, Room 22; DELETE demo indication, demo note “Remove Ex AC Unit”, and keynote tag “3” in their entirety on south wall. To CLARIFY there is no existing mechanical equipment on the south wall to be removed.

H. Sheet M-1.1

1. DELETE Sheet M-1.1 in its entirety and REPLACE with revised Sheet M-2.1 dated 11-23-2021 included as part of this Addendum.

I. Sheet M-1.3

1. DELETE Sheet M-1.3 in its entirety and REPLACE with revised Sheet M-1.3 dated 11-23-2021 included as part of this Addendum.

J. Sheet M-2.1

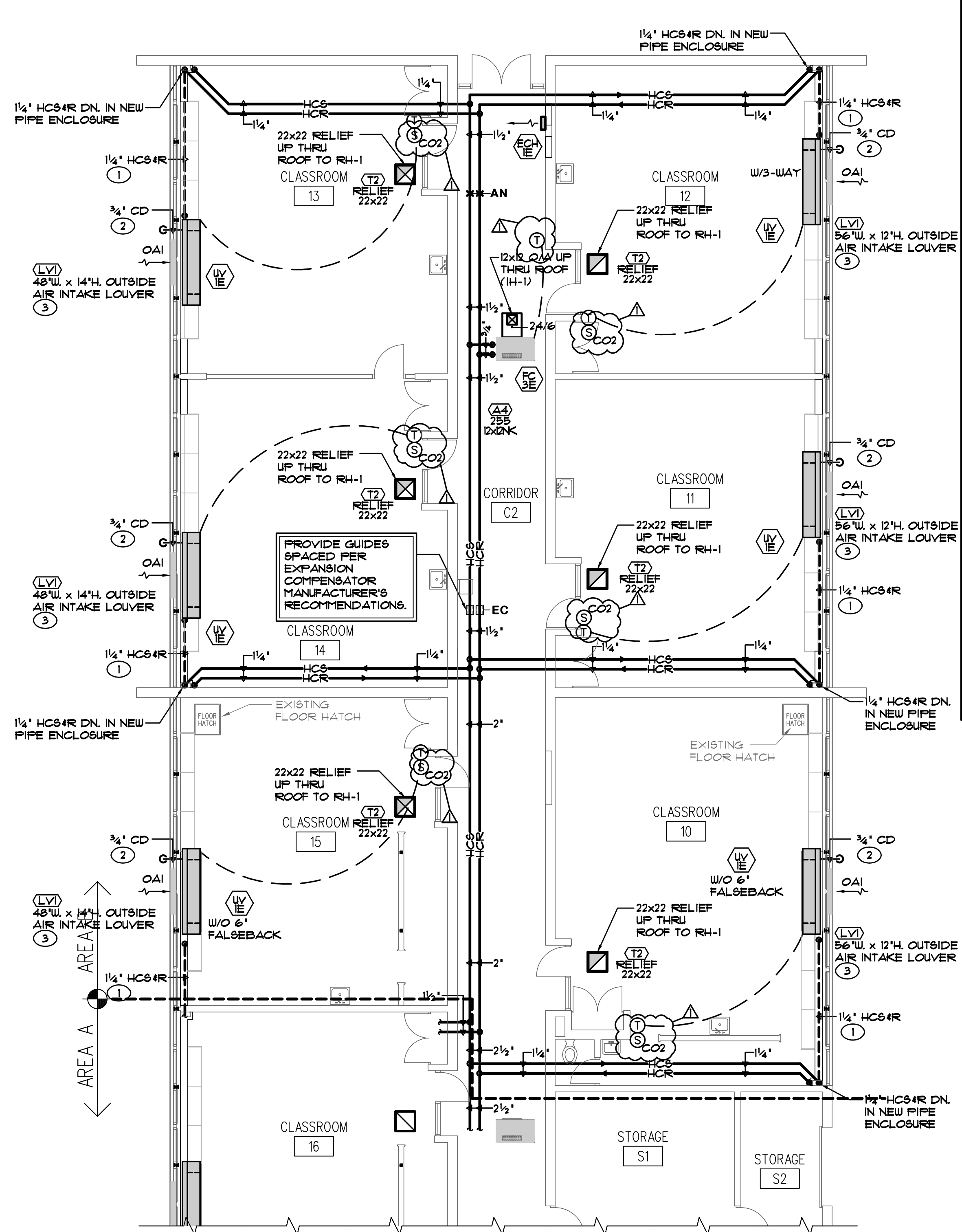
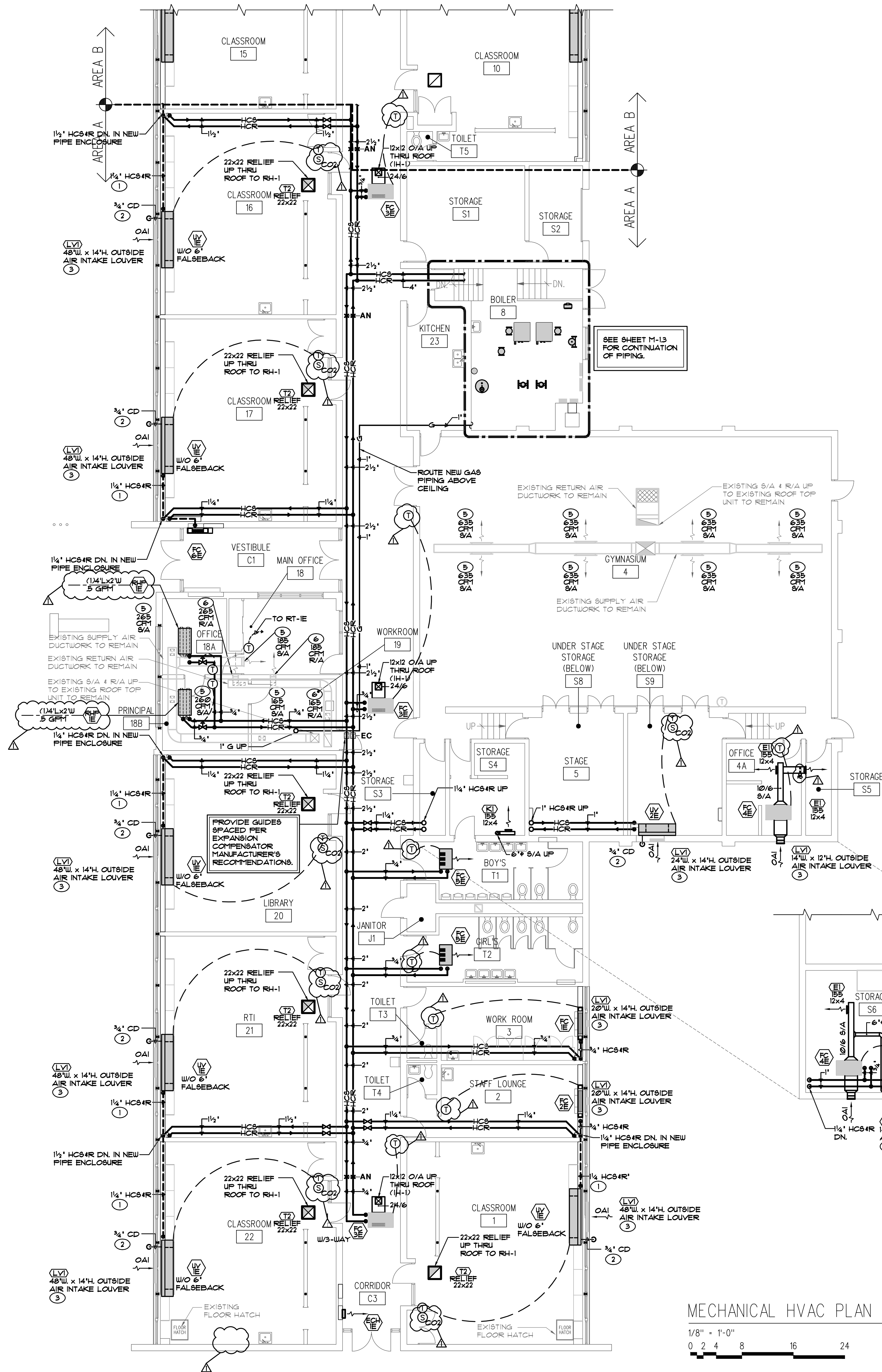
1. DELETE Sheet M-2.1 in its entirety and REPLACE with revised Sheet M-2.1 dated 11-23-2021 included as part of this Addendum.

K. Sheet E-2.1

1. DELETE Sheet E-2.1 in its entirety and REPLACE with revised Sheet E-2.1 dated 11-23-2021 included as part of this Addendum.

END OF ADDENDUM NO. 2

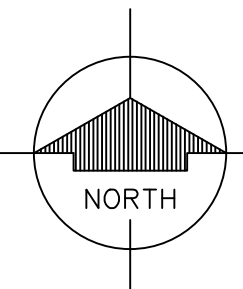
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- ### SHEET NOTES
1. NEW LOCATION OF EXISTING SHELVING UNITS TO BE 6" FROM EXISTING WALL TO ROUTE NEW HOT/COLLED WATER PIPING BEHIND EXISTING SHELVING UNITS. SEE ARCHITECTURAL PLANS FOR NEW TOP FILLER PIECE FROM SHELVING TO WALL.
 2. EXTEND CONDENSATE PIPING FROM UNIT THRU WALL. TERMINATE WITH 45 DEGREE ELBOW DOWN TO GRADE, SLEEVE AND SEAL PIPE THROUGH WALL PENETRATION WEATERTIGHT.
 3. MODIFY EXISTING WALL OPENING FOR NEW OUTSIDE AIR INTAKE LOUVER. COORDINATE OUTSIDE AIR INTAKE LOUVER WITH INSTALLATION OF NEW UNIT VENTILATOR COMPLETE AS REQUIRED.
 4. EXISTING SUPPLY AIR DIFFUSER TO REMAIN. INSPECT AND CLEAN EXISTING DIFFUSER COMPLETE AS REQUIRED. BALANCE EXISTING SUPPLY AIR DIFFUSER TO AIRFLOW QUANTITY INDICATED ON PLAN.
 5. EXISTING RETURN AIR GRILLE TO REMAIN. INSPECT AND CLEAN EXISTING GRILLE COMPLETE AS REQUIRED. BALANCE EXISTING RETURN AIR GRILLE TO AIRFLOW QUANTITY INDICATED ON PLAN.

MECHANICAL HVAC PLAN

1/8" = 1'-0"
0 2 4 8 16 24



ROOM INDEX	
1	CLASSROOM
2	STAFF LOUNGE
3	WORK ROOM
4	GYMNASIUM
4A	OFFICE
5	STAGE
8	BOILER ROOM
10	CLASSROOM
11	CLASSROOM
12	CLASSROOM
13	CLASSROOM
14	CLASSROOM
15	CLASSROOM
16	CLASSROOM
17	CLASSROOM
18	MAIN OFFICE
18A	OFFICE
18B	PRINCIPAL
19	WORK ROOM
20	LIBRARY
21	RTI
22	CLASSROOM
23	KITCHEN
C1	VESTIBULE
C2	CORRIDOR
C3	CORRIDOR
J1	JANITOR
S1	STORAGE
S2	STORAGE
S3	STORAGE
S4	STORAGE
S5	STORAGE
S6	STORAGE
S7	STORAGE
S8	UNDER STAGE STORAGE
S9	UNDER STAGE STORAGE
T1	BOYS
T2	GIRLS
T3	TOILET
T4	TOILET
T5	TOILET

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2022 MECHANICAL WORK
EISENHOWER ACADEMY
JOLIET, ILLINOIS
FOR
JOLIET PUBLIC SCHOOLS DISTRICT 86
JOLIET, WILL COUNTY, ILLINOIS

REVISIONS	DATE	DESCRIPTION
1	11-23-2021	ADDENDUM NO. 2
PROJECT NO. 6-1621-40		
DRAWN BY GL		
DATE 11-08-2021		
SHEET NO.		
M-1.1		
OF 6		

[illegible]

PUMP SCHEDULE														
TAG	MANUFACTURER	MODEL NUMBER	DESCRIPTION	GPM	HEAD (FT.)	PUMP MOTOR DATA					STARTER:		SUCTION/ DISCHARGE SIZE	REMARKS
						HP	RPM	VOLT	PHASE	HZ	MC.	EC.		
BP-1E	BELL & GOSSETT	SERIES 80: 2.5x2.5xTB	INLINE BOILER RECIRCULATION PUMP (B-1)	95	40	2	1750	200	3	60	X	-	2.5' / 2.5'	-
BP-2E	BELL & GOSSETT	SERIES 80: 2.5x2.5xTB	INLINE BOILER RECIRCULATION PUMP (B-2)	95	40	2	1750	200	3	60	X	-	2.5' / 2.5'	-
CP-1E	BELL & GOSSETT	SERIES 80: 3x3x3C	INLINE CHILLER RECIRCULATION PUMP (C-1)	148	50	5	1750	200	3	60	X	-	3' / 3'	-
HCP-1E	BELL & GOSSETT	SERIES 1510: 2x2x3.5C	BASE MOUNTED HOT/CHILLED WATER DISTRIBUTION PUMP	95	70	5	1750	200	3	60	X	-	2' / 2'	HOT/CHILLED WATER PRIMARY PUMPS W/VPD OPERATING IN PARALLEL 150 GPM AT 70 FT. HD. WITH DUAL POWER FEEDERS
HCP-2E	BELL & GOSSETT	SERIES 1510: 2x2x3.5C	BASE MOUNTED HOT/CHILLED WATER DISTRIBUTION PUMP	95	70	5	1750	200	3	60	X	-	2' / 2'	

MECHANICAL EQUIPMENT SCHEDULE - ELECTRIC HEATERS																						
TAG	MANUFACTURER	MODEL NUMBER	DESCRIPTION	FAN DATA		ELECTRIC HEAT DATA						ELECTRICAL DATA							UNITS CONTROLLED	EQUIP WEIGHT	REMARKS	
				S/A	C/FM	M/BH	KW	EAT	LAT	HP	MCA	F/LA	A/MPS	MOC/P	VOLT	PHASE	HZ	DISC. SWT.				BY
ECH-IE	GIMARK	LFC	WALL MOUNTED ELECTRIC CABINET HEATER	100	16.4	4.8	6.0	211	-	-	-	-	23.1	-	208	1	60	-	X	INTEGRAL T-STAT	22	-

NATURAL GAS CONNECTION SCHEDULE				
TAG	DESCRIPTION	LOCATION	CAPACITY CFH	REMARKS
B-1E	GAS FIRED H.W. CONDENSING BOILER w/SEALED COMBUSTION	8 - BOILER RM	1000	-
B-2E	GAS FIRED H.W. CONDENSING BOILER w/SEALED COMBUSTION	8 - BOILER RM	1000	-
RT-1E	ROOF MOUNTED GAS FIRED / DX COOLING PACKAGED UNIT	ROOF	60	-
-	EXIST ROOF MOUNTED DX COOLING PACKAGED UNIT w/NEW GAS-FIRED HEAT EXCHANGER	ROOF	330	-
-	DOMESTIC HOT WATER HEATER	8 - BOILER RM	40	-
-	EXISTING RANGE / OVEN	23 - KITCHEN	15	ESTIMATED
TOTAL			2565	CFH @ 2 PSI

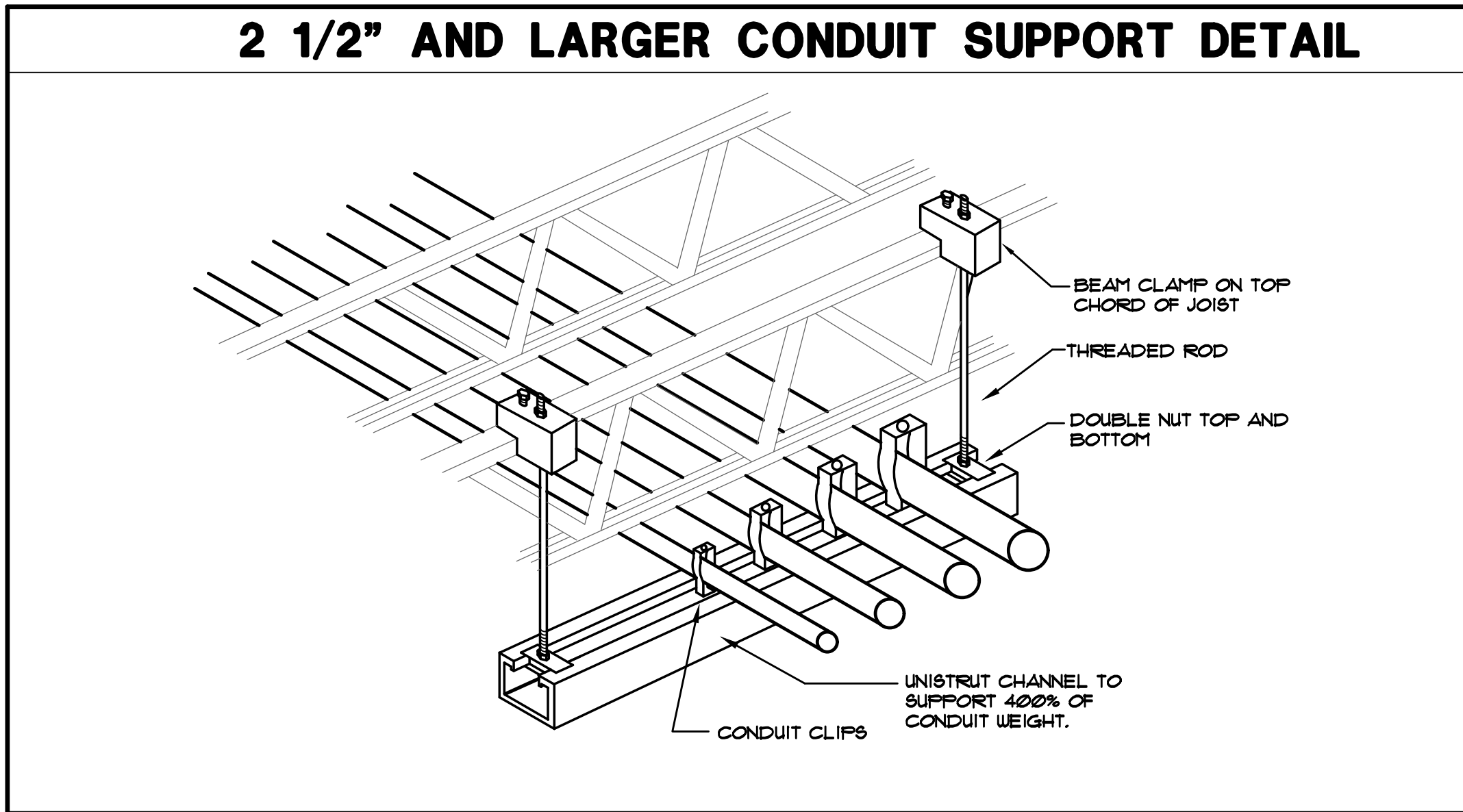
COMMISSIONING NOTE

1. COMMISSIONING: THE OWNER WILL HIRE A COMMISSIONING AGENCY (CXA) TO COMMISSION THE MECHANICAL SYSTEMS FOR THIS PROJECT. THE CXA WILL DEVELOP A COMMISSIONING PLAN THAT WILL OUTLINE THE REQUIREMENTS AND PROCEDURES FOR EACH COMMISSIONED SYSTEM AND WILL BE RESPONSIBLE THAT THE COMMISSIONING MEETS THE REQUIREMENTS OF THE CURRENT ENERGY CODE. THE COMMISSIONING PLAN WILL BE DEVELOPED AFTER CONTRACTS HAVE BEEN AWARDED AND PRIOR TO COMPLETION OF THE SYSTEMS TO BE COMMISSIONED.
2. PROVIDE REQUESTED INFORMATION TO THE CXA IN THEIR DEVELOPMENT OF THE COMMISSIONING PLAN PERTAINING TO THE MECHANICAL SYSTEMS, EQUIPMENT AND INSTALLATION.
3. PROVIDE START-UP AND TESTING AND BALANCING OF THE MECHANICAL SYSTEMS.
4. PROVIDE TESTING OF THE MECHANICAL SYSTEMS TO COMPLY WITH THE COMMISSIONING PLAN AND FOR DOCUMENTATION BY THE CXA.
5. RECTIFY DEFICIENCIES IDENTIFIED BY CXA - AND SUBMIT REPORTS INDICATING COMPLETION. PROVIDE ADDITIONAL TESTING TO COMPLY WITH THE COMMISSIONING PLAN AND FOR DOCUMENTATION BY THE CXA. CONTINUE THIS PROCESS UNTIL THE COMMISSIONING IS ACCEPTED BY THE CXA.
6. PROVIDE FINAL DOCUMENTATION REQUIREMENTS TO COMPLY WITH THE REQUIREMENTS OF THE COMMISSIONING PLAN.
7. COMPLETE THE REQUIREMENTS OF THE CONTRACT DOCUMENTS FOR ALL SYSTEMS INCLUDING THE COMMISSIONING REQUIREMENTS LISTED ABOVE.
8. THE FOLLOWING MECHANICAL SYSTEMS ARE TO BE COMMISSIONED:
 - A. ALL NEW HVAC EQUIPMENT.
 - B. TEMPERATURE CONTROLS.

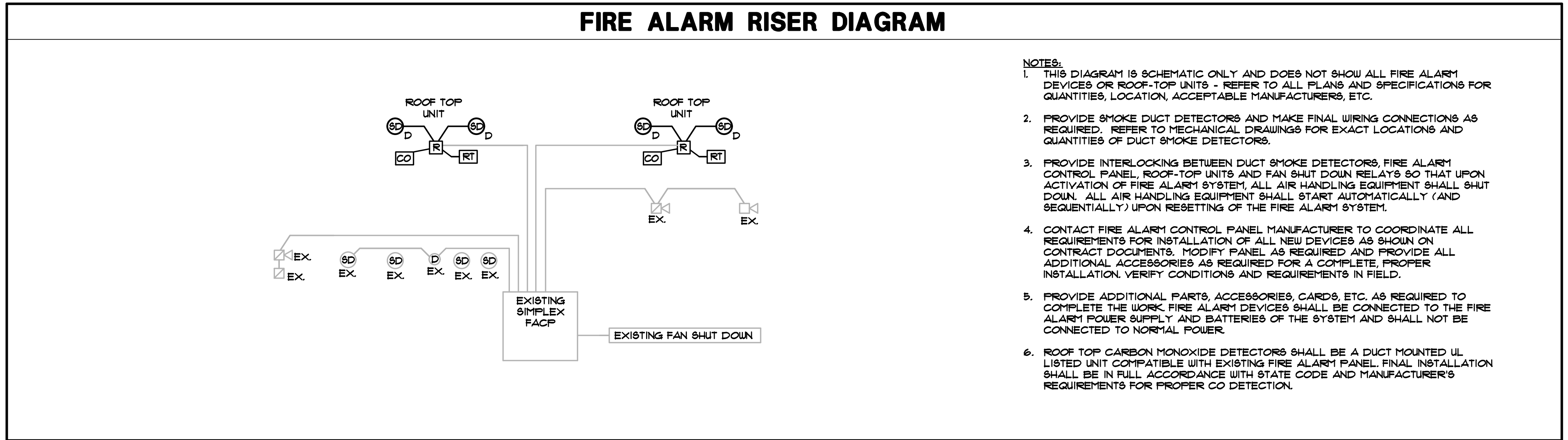
SYMBOL LIST	
	120V-20A SPECIFICATION GRADE DUPLEX RECEPTACLE - (MOUNTED 18" AFF. OR AS NOTED) (HUBBELL #362 OR EQUAL)
	120V-20A SPECIFICATION GRADE DUPLEX RECEPTACLE - (MOUNTED 42" AFF. OR 2' ABOVE BACKSPLASH IF LOCATED ABOVE COUNTER) (HUBBELL #362 OR EQUAL)
	120V-20A SPECIFICATION GRADE GROUNDING DUPLEX RECEPTACLE WITH GFI PROTECTION - (MOUNTED 18" AFF. OR AS NOTED) (HUBBELL #362 OR EQUAL)
	GENERAL PURPOSE 1-POLE LOW VOLTAGE SWITCH - (TYPICAL - MOUNTED 42" AFF.) (SENSOR SWITCH 5-POD M SERIES OR EQUAL BY GREENGATE, LEVITON OR CRISTAL CONTROLS)
	SWITCH W/ PILOT LIGHT HANDLE MTD. 42" AFF
	ELECTRIC PANELBOARDS.
	DISCONNECT SWITCH SIZE AND TYPE AS REQUIRED - COORDINATE AMPERE RATING WITH EQUIPMENT SUPPLIER
	FLEX CONDUIT CONNECTION
	JUNCTION BOX - SIZE AND TYPE AS REQUIRED.
	JUNCTION BOX W/ FLEX CONDUIT CONNECTION
	CONDUIT STUB INTO ACCESSIBLE CEILING SPACE TERMINATE W/ INSULATING BUSHING
	CONDUIT CONCEALED ABOVE CEILING OR IN WALL
	CONDUIT CONCEALED IN OR BELOW FINISHED FLOOR
	CONDUIT EXPOSED ON CEILING, WALL OR BAR JOIST - ROUTED IN NEAT MANNER
	HOMERUN TO PANEL INDICATING PANEL AND CIRCUIT BREAKER NUMBER WITHIN THE PANEL.
	INDICATES NUMBER OF CONDUCTORS IN CONDUIT (CONTRACTOR SHALL VERIFY AND INSTALL ADDITIONAL WHERE REQUIRED) CROSS HATCHED INDICATES NUMBER OF CONDUCTORS (HOT OR SWITCHED LEG, NEUTRAL, GROUND)
	ELLIPSE TAG REFERENCE TO SHEET NOTES
	TWO DEVICE MOUNTED UNDER COMMON COVER. WHERE LOW VOLTAGE DEVICES ARE MOUNTED UNDER COMMON COVER, COMBINE CONDUIT STUBS MAINTAINING THE EQUIVALENT FREE AREA FOR THE LOW VOLTAGE CABLING.
	FIRE ALARM CONTROL RELAY IN AIR HANDLING UNIT CONTROL PANEL WIRED TO SHUT DOWN FANS UPON FIRE ALARM SYSTEM ACTIVATION - NOTE: FANS TO AUTOMATICALLY RESTART UPON FIRE ALARM SYSTEM RESET. ALSO, RELAYS SHALL BE INTERFACED TO FIRE DOORS TO DISENGAGE UPON ACTIVATION OF THE FIRE ALARM SYSTEM.
	FIRE ALARM SYSTEM HEAT DETECTOR - COMBINATION TYPE (R/R - FIXED TEMP.) IN BOILER ROOM
	FIRE ALARM SYSTEM SMOKE DETECTOR - CEILING MOUNTED - ABOVE FACP
	FIRE ALARM CONTROL PANEL
	MANUAL STARTING SWITCH WITH THERMAL OVERLOAD PROTECTION
	PULL BOX, VERIFY EXACT SIZE IN FIELD.
	SPLICE BOX, VERIFY EXACT SIZE IN FIELD.
	ADDRESSABLE CARBON MONOXIDE DETECTOR FOR ROOF TOP UNIT TO BE INSTALLED IN DUCT. DEVICE SHALL BE FULLY COMPATIBLE AND U.L. LISTED FOR USE WITH EXISTING FACP. AT CONTRACTOR'S OPTION, CONTRACTOR SHALL PROVIDE U.L. LISTED ADDRESSABLE CARBON MONOXIDE UNITS LISTED FOR USE WITH EXISTING FACP LOCATED WITHIN 20' OF ROOFTOP AND IN EVERY SPACE SERVED BY ROOFTOP, COMPLETE AS REQUIRED.
	FIRE ALARM SYSTEM DUCT TYPE SMOKE DETECTOR WIRED TO CONTROL LOCAL FAN SHUT DOWN RELAY - DUCT DETECTOR TO BE MOUNTED IN AIR DUCT SYSTEM AND WIRED PER MANUFACTURER'S RECOMMENDATIONS AND NFPA 72
	DUPLEX DATA OUTLET - WITH 3/4" CONDUIT STUBBED INTO ACCESSIBLE CEILING SPACE WITH INSULATED BUSHING - MOUNTED 18" AFF. WHEN MOUNTED ADJACENT TO AN ELECTRICAL RECEPTACLE OR AS NOTED. PROVIDE CAT-6 PLUMBING CABLE, FROM EACH JACK, TO NEAREST IDF OR MDF LOCATION INDICATED ON PLANS. TERMINATE WITH RJ-45 JACK. TEST AND LEAVE 10' SLACK LENGTH.
	SPECIAL PURPOSE OUTLET (AS NOTED ON PLAN OR SPECIFICATIONS).
	EXISTING PROJECTOR OUTLET
	FIRE ALARM SYSTEM CARBON MONOXIDE SENSOR - CEILING MOUNTED
	EXISTING CLOCK
	EXISTING BELL
	EXISTING EMERGENCY LIGHT
	EXISTING EXIT SIGN

MECHANICAL EQUIPMENT CONNECTION SCHEDULE																		
TAG	DESCRIPTION	LOAD					MOCP	VOLT	PHASE	PANEL	CKT. NO.	FUSED SWITCH C/B	FEEDER		STARTER BY:		LOCATION	REMARKS
		WATTS	HP	MCA	FLA	AMPS							CABLE	C	MC	EC		
C-1E	CHILLER	113350	-	315	-	-	350	208	3	MDP	MDP	350A/3P	4 #000KCHIL 4 1/2 GRD.	3'	X	-	-	-
C-1E	CHILLER HEAT TRACE	960	-	-	8	-	20	120	1	VARIES	VARIES	20A/1P	2 #2 4 1/2 GRD.	3/4'	-	X	-	VERIFY LOAD WITH HEAT TRACE LENGTH.
B-1E	BOILER	960	-	-	8	-	15	120	1	VARIES	VARIES	15A/1P	2 #2 4 1/2 GRD.	3/4'	X	-	-	-
B-2E	BOILER	960	-	-	8	-	15	120	1	VARIES	VARIES	15A/1P	2 #2 4 1/2 GRD.	3/4'	X	-	-	-
RT-1E	ROOF TOP UNIT	10435	-	29	-	-	40	208	3	MDP	MDP	40A/3P	4 #8 4 1/2 GRD.	3/4'	X	-	-	-
UV-1E	UNIT VENTINATOR	108	-	9.9	-	-	15	120	1	VARIES	VARIES	15A/1P	2 #2 4 1/2 GRD.	3/4'	X	-	-	-
UV-2E	UNIT VENTINATOR	552	-	4.6	-	-	15	120	1	VARIES	VARIES	15A/1P	2 #2 4 1/2 GRD.	3/4'	X	-	-	-
FC-1E	FAN COIL UNIT	360	-	3	-	-	15	120	1	VARIES	VARIES	15A/1P	2 #2 4 1/2 GRD.	3/4'	X	-	-	-
FC-2E	FAN COIL UNIT	360	-	3	-	-	15	120	1	VARIES	VARIES	15A/1P	2 #2 4 1/2 GRD.	3/4'	X	-	-	-
FC-3E	FAN COIL UNIT	240	-	2	-	-	15	120	1	VARIES	VARIES	15A/1P	2 #2 4 1/2 GRD.	3/4'	X	-	-	-
FC-4E	FAN COIL UNIT	240	-	2	-	-	15	120	1	VARIES	VARIES	15A/1P	2 #2 4 1/2 GRD.	3/4'	X	-	-	-
FC-5E	FAN COIL UNIT	240	-	2	-	-	15	120	1	VARIES	VARIES	15A/1P	2 #2 4 1/2 GRD.	3/4'	X	-	-	-
FC-6E	VERTICAL RECESSED CHILLED/HOT WATER FAN COIL UNIT - 2 PIPE	-	-	2	-	-	15	120	1	VARIES	VARIES	15A/1P	2 #2 4 1/2 GRD.	3/4'	-	-	-	-
UH-1E	UNIT HEATER	-	-	-	-	-	-	120	1	VARIES	VARIES	15A/1P	2 #2 4 1/2 GRD.	3/4'	-	X	-	-
HX-1E	HEAT EXCHANGER	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RHP-1E	4'-0" x 2'-0" CEILING MTD HOT WATER RADIANT HEAT PANEL	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BP-1E	BOILER PUMP	2600	2	-	-	-	-	208	3	VARIES	VARIES	15A/3P	4 #2 4 1/2 GRD.	3/4'	-	-	-	-
BP-2E	BOILER PUMP	2600	2	-	-	-	-	208	3	VARIES	VARIES	15A/3P	4 #2 4 1/2 GRD.	3/4'	-	-	-	-
CP-1E	CHILLER PUMP	6000	5	-	-	-	-	208	3	VARIES	VARIES	35A/3P	4 #8 4 1/2 GRD.	3/4'	-	-	-	-
HCP-1E	HOT/CHILLED WATER PUMP	6000	5	-	-	-	-	208	3	VARIES	VARIES	35A/3P	4 #8 4 1/2 GRD.	3/4'	-	-	-	-
HCP-2E	HOT/CHILLED WATER PUMP	6000	5	-	-	-	-	208	3	VARIES	VARIES	35A/3P	4 #8 4 1/2 GRD.	3/4'	-	-	-	-

MECHANICAL EQUIPMENT CONNECTION SCHEDULE																		
TAG	DESCRIPTION	LOAD					MOCP	VOLT	PHASE	PANEL	CKT. NO.	FUSED SWITCH	FEEDER		STARTER BY:		LOCATION	REMARKS
		WATTS	HP	MCA	FLA	AMPS							CABLE	C	MC	EC		
ECH-1E	WALL MOUNTED ELECTRIC CABINET HEATER	-	-	-	-	23.1	-	208	1	VARIES	VARIES	30A/2P	3 #10 4 1/2 GRD.	3/4'	-	X	-	-



ELECTRICAL ABBREVIATIONS			
NOTE: ABBREVIATIONS USED ON DRAWINGS IN GENERAL ARE LISTED BELOW. REFER TO CSI SECTION 01420 FOR ANY ABBREVIATIONS LISTED ON THE DRAWINGS BUT ARE NOT LISTED BELOW.			
A	AMP	KVA	KILOVOLT AMPERE
AC	AIR CONDITIONING	KW	KILOWATT
AF	ABOVE FINISHED FLOOR	MECH	MECHANICAL
AFS	ABOVE FINISHED GRADE	MTD	MOUNTED
BRKR	BREAKER	NE	NEW LOCATION OF EXISTING RELOCATED DEVICE
C	CONDUIT	NTC	NOT IN CONTRACT
CH	CABINET HEATER	NL	NIGHTLIGHT
CKT	CIRCUIT	NTS	NOT TO SCALE
DISTR	DISTRIBUTION	O/C	ON CENTER
EF	EXHAUST FAN	P	POLE
ELEC	ELECTRICAL	PNL	PANEL
EMT	EMERGENCY	PH	PHASE
EMT	ELECTRICAL METALLIC TUBING	RR	REMOVE AND RELOCATE EXISTING DEVICE
ER	EXISTING DEVICE TO BE REMOVED	SW	SWITCH
EX	EXISTING DEVICE TO REMAIN	TYP	TYPICAL
F	FUSE	UON	UNLESS OTHERWISE NOTED
FS	FUSIBLE SWITCH	V	VOLTS
G	GROUND	VF	VERIFY IN FIELD
GFI	GROUND FAULT INTERRUPTING PROTECTION	W	WATTS
GRC	GALVANIZED RIGID CONDUIT	WP	WEATHERPROOF TYPE DEVICE
HPC	HORSEPOWER	WG	WIRE GUARD
J	JUNCTION BOX	FI	FURNISH AND INSTALL



HEALY BENDER PATTON & BEEN
ARCHITECTS

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ENGINEERING GROUP

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Chicago, Illinois 60601
(312) 924-6400
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2022 MECHANICAL WORK
EISENHOWER ACADEMY
JOLIET, ILLINOIS

FOR
JOLIET PUBLIC SCHOOLS DISTRICT 86
JOLIET, WILL COUNTY, ILLINOIS

REVISIONS

NO.	DATE	DESCRIPTION
1	11-23-2021	ADDENDUM NO. 2

PROJ NO.
6-1621-40

DRAWN BY
MG

DATE
11-08-2021

SHEET NO.
E-2.1

OF 3

ELECTRICAL SCHEDULES, DETAILS, DIAGRAMS, SYMBOLS & ABBREVIATIONS

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HEALY BENDER PATTON & BEEN
ARCHITECTS
4040 Helene Avenue
Naperville, Illinois 60564

ADDENDUM NO. 1
November 15, 2021

2022 MECHANICAL WORK
T.E. CULBERTSON ELEMENTARY SCHOOL
JOLIET, ILLINOIS
FOR
JOLIET PUBLIC SCHOOLS DISTRICT 86
JOLIET, WILL COUNTY, ILLINOIS
PROJECT NOS. 6-1621-39

This addendum shall be considered as part of the Contract Documents or Bidding Documents, as applicable, and shall govern insofar as it changes, deletes from, or adds to the original Contract Documents or Bidding Documents, as applicable.

The Contract Documents or Bidding Documents as applicable shall be modified to incorporate the following changes:

I. PROJECT MANUAL

A. Section 00 02 00 – Notice to Bidders

1. First paragraph, REVISE the words “until 2:00 P.M. prevailing time on 30th day of November 2021” to read as follows, “until 2:00 P.M. prevailing time on 2nd day of December 2021”.

B. Section 01 21 00 – Base Bids

1. ADD new paragraph 1.03.E.2 to read as follows:

“2. As described above, Owner reserves right to award bid(s) to one or multiple bidders for the Work based upon the best interests of the District. As such, should the Owner award less than all four projects, Base Bid E – Combined Bid for 2022 Mechanical Work will not be considered. Bidders who are submitting a bid for Base Bid E – Combined Bid for 2022 Mechanical Work should consider submitting a bid for the other Base Bids.”

END OF ADDENDUM NO. 1

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HEALY BENDER PATTON & BEEN
ARCHITECTS
4040 Helene Avenue
Naperville, Illinois 60564

ADDENDUM NO. 1
November 15, 2021

2022 MECHANICAL WORK
TAFT ELEMENTARY SCHOOL
JOLIET, ILLINOIS
FOR
JOLIET PUBLIC SCHOOLS DISTRICT 86
JOLIET, WILL COUNTY, ILLINOIS
PROJECT NOS. 6-1621-42

This addendum shall be considered as part of the Contract Documents or Bidding Documents, as applicable, and shall govern insofar as it changes, deletes from, or adds to the original Contract Documents or Bidding Documents, as applicable.

The Contract Documents or Bidding Documents as applicable shall be modified to incorporate the following changes:

I. PROJECT MANUAL

A. Section 00 02 00 – Notice to Bidders

1. First paragraph, REVISE the words “until 2:00 P.M. prevailing time on 30th day of November 2021” to read as follows, “until 2:00 P.M. prevailing time on 2nd day of December 2021”.

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END OF ADDENDUM NO. 1

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HEALY BENDER PATTON & BEEN
ARCHITECTS
4040 Helene Avenue
Naperville, Illinois 60564

ADDENDUM NO. 1
November 15, 2021

2022 MECHANICAL WORK
EISENHOWER ACADEMY
JOLIET, ILLINOIS
FOR
JOLIET PUBLIC SCHOOLS DISTRICT 86
JOLIET, WILL COUNTY, ILLINOIS
PROJECT NOS. 6-1621-40

This addendum shall be considered as part of the Contract Documents or Bidding Documents, as applicable, and shall govern insofar as it changes, deletes from, or adds to the original Contract Documents or Bidding Documents, as applicable.

The Contract Documents or Bidding Documents as applicable shall be modified to incorporate the following changes:

I. PROJECT MANUAL

A. Section 00 02 00 – Notice to Bidders

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END OF ADDENDUM NO. 1

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HEALY BENDER PATTON & BEEN
ARCHITECTS
4040 Helene Avenue
Naperville, Illinois 60564

ADDENDUM NO. 1
November 15, 2021

2022 MECHANICAL WORK
FOREST PARK INDIVIDUAL
EDUCATION SCHOOL
JOLIET, ILLINOIS
FOR
JOLIET PUBLIC SCHOOLS DISTRICT 86
JOLIET, WILL COUNTY, ILLINOIS
PROJECT NOS. 6-1621-41

This addendum shall be considered as part of the Contract Documents or Bidding Documents, as applicable, and shall govern insofar as it changes, deletes from, or adds to the original Contract Documents or Bidding Documents, as applicable.

The Contract Documents or Bidding Documents as applicable shall be modified to incorporate the following changes:

I. PROJECT MANUAL

A. Section 00 02 00 – Notice to Bidders

1. First paragraph, REVISE the words “until 2:00 P.M. prevailing time on 30th day of November 2021” to read as follows, “until 2:00 P.M. prevailing time on 2nd day of December 2021”.

B. Section 01 21 00 – Base Bids

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 - “2. As described above, Owner reserves right to award bid(s) to one or multiple bidders for the Work based upon the best interests of the District. As such, should the Owner award less than all four projects, Base Bid E – Combined Bid for 2022 Mechanical Work will not be considered. Bidders who are submitting a bid for Base Bid E – Combined Bid for 2022 Mechanical Work should consider submitting a bid for the other Base Bids.”

END OF ADDENDUM NO. 1

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DIVISION 0 - BIDDING AND CONTRACT REQUIREMENTS

Section 00 02 00 - Notice To Bidders

Sealed bids for the 2022 Mechanical Work T.E. Culbertson Elementary School, Joliet, Illinois; 2022 Mechanical Work Eisenhower Academy, Joliet, Illinois; 2022 Mechanical Work Forest Park Individual Education School, Joliet, Illinois; 2022 Mechanical Work Taft Elementary School, Joliet, Illinois, will be received by the Board of School Inspectors, Joliet Public Schools District 86, Joliet, Will County, Illinois, at their District Office at 420 North Raynor Avenue, Joliet, Illinois, until 2:00 P.M. prevailing time on the 30th day of November 2021. Bids will be opened and read aloud at that time.

The work is to be performed in accordance with the proposed Contract Documents as prepared by Healy Bender Patton & Been Architects, 4040 Helene Avenue, Naperville, Illinois. The proposed Contract Documents may be obtained by request to the Architect.

Upon receipt of a completed Registered Plan Holder Record form and a Bidding Documents License Agreement, prospective bidders will become registered plan holders. During the bidding period, the office of the Architect will send project addenda, clarifications, and other project information to registered plan holders via the email address(es) listed on the Registered Plan Holder Record on file at the Architect's office.

These proposed Contract Documents may be studied at the office of the Architect or at the following locations:

Contractors Association of Will and Grundy Counties Plan Room

233 N. Springfield Avenue, Joliet, Illinois

These documents may also be viewed online at Dodge Data & Analytics internet site at www.construction.com.

Bids will be received on General Contract Work, including all trades.

BIDDER RESPONSIBILITY

Each Bidder must satisfactorily complete the Bidder Responsibility process described in Section 01 00 00 - Bidder Responsibility Criteria of the Project Manual by providing the required Documents.

In the case of a joint venture or partnership, each joint venturer or partner must independently meet each of the requirements set forth in Paragraphs 1.02, 1.03, 1.04 and 1.05 in Section 01 00 00 - Bidder Responsibility Criteria.

The required Documents must be delivered along with the bidder's sealed bid at the same place and time required for the bid. Contents of each bidder's Responsibility Criteria Documents will be available for public review.

The Bidder Responsibility Documents will be reviewed by the Owner and Architect to determine the lowest responsible Bidder.

Each bid must be accompanied by a Bid Guarantee in the form of a Bid Bond, Certified Check or Bank Draft in an amount equal to not less than ten percent (10%), of the bid and made payable to Joliet Public Schools District 86, 420 North Raynor Avenue, Joliet, Illinois. No bid shall be withdrawn for a period of thirty (30) days after the bids opening date without the

2022 Mechanical Work

T.E. Culbertson ES 21039

Eisenhower Academy 21040

Forest Park School 21041

Taft ES 21042

00 02 00-1

Notice to Bidders

consent of the Owner. Checks or drafts of unsuccessful bidders will be returned as soon as practical after opening and checking the bids.

Successful bidder must provide a Performance Bond and a Labor and Material Payment Bond in the full amount of the Contract, acceptable to the Owner. This Contract is subject to the Illinois Prevailing Wage Act (820 ILCS 130/1 et.seq.).

The Owner reserves the right to reject any or all bids and to waive any informalities in bidding.

Contact Paul DuFresne, Director of Facilities at (815) 727-6506 to make arrangements to visit the site(s).

BOARD OF SCHOOL INSPECTORS
JOLIET PUBLIC SCHOOLS DISTRICT 86
JOLIET, WILL COUNTY, ILLINOIS

END 00 02 00

2022 Mechanical Work
T.E. Culbertson ES 21039
Eisenhower Academy 21040
Forest Park School 21041
Taft ES 21042

00 02 00-2

Notice to Bidders