



To: Prospective Bidders
From: Wold Architects and Engineers
Date: April 13, 2017
Comm. No: 173011

Subject: Addendum No. 1 for Bidding Documents for: Huntley CSD No. 158
Conley Elementary School
Chiller and RTU Replacement

BIDS DUE TUESDAY, APRIL 18, 2017 AT 2:30 P.M.

This addendum forms a part of the Contract Documents dated April 4, 2017. Acknowledge receipt of this Addendum on the space provided on the Bid Form. Failure to do so may result in disqualification of Bid.

This Addendum consists of two (2) typed sheets and attachments:
General: Pre-Bid Meeting Sign-In Sheet
Drawings: M0.11, M0.21, M1.21

GENERAL

1. Sign-in sheet from April 11, 2017 Pre-Bid Meeting attached for reference.

PROJECT MANUAL

1. SECTION 00 41 13 – BID FORM

- A. On the Reference Sheet, disregard the statement “See requirements in Section 5...for special requirements” at the top of the form. Each Bidder is responsible for providing contact information for references as noted on the form, there are no additional special requirements.



PRIOR APPROVALS

The following schedule amends designated specification sections to list additional acceptable manufacturers. Use of any product by any of these manufacturers will be permitted only if after review of shop drawings or detailed product data per Section 01 33 00, Architect determines that proposed materials or equipment are equivalent in performance, construction and appearance to product(s) specified.

Where anticipated product substitutions would alter the design or space requirements indicated on the Drawings, pay for cost of design and construction revisions including the cost of associated work by other contractors.

For complete requirements, see Specification Section 01 25 00 – Substitutions and Product Options.

<u>Section No.</u>	<u>Item</u>	<u>Type</u>	<u>Acceptable Manufacturers</u>
23 74 13	2.01.A	Packaged, Outdoor, Central-Station Air Handling Units	Addison (Specified Air Solutions, Inc) Annexair, Inc. Ventrol Air Handling Systems, Inc.

DRAWINGS

1. SHEET M0.11 – CHILLER MECHANICAL DEMOLITION PLAN

- A. Sheet reissued this Addendum to indicate District Staff will drain the chilled water system prior to equipment demolition. The Contractor will be responsible for flushing/filling the system as specified.

2. SHEET M0.21 – ROOFTOP UNIT MECHANICAL DEMOLITION PLAN

- A. Sheet reissued this Addendum to indicate removal and reinstallation of existing lightning protection devices at equipment.

3. SHEET M1.21 – ROOFTOP UNIT MECHANICAL NEW WORK PLAN

- A. Sheet reissued this Addendum to indicate removal and reinstallation of existing lightning protection devices at equipment, to indicate application of primer paint to all existing metal deck surfaces uncovered during construction, and to revise Rooftop Unit Schedule notes.

END OF ADDENDUM #1



Project Name: Conley E.S. Chiller & Rooftop Unit Replacement

Date: April 11, 2017 Commission No.: 173011

A copy of the meeting minutes will be sent to you and we want to be sure to have the correct spelling. Thank you.

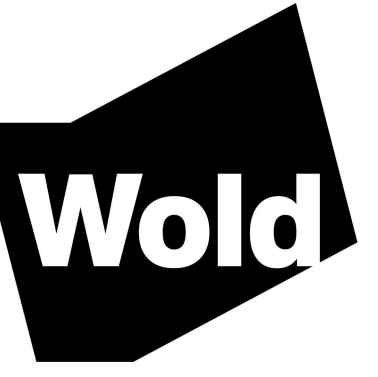
Please Print Clearly

Full Name:	Company:	Phone Number:	E-Mail:
Ray CARPENTER	FEMORAN	847-714-8183	FEM. ESTIMATING. COM C.flesher@FEMORAN.COM
Jim WOLF	MG Mech	815-790-5254	JIMW@MGMECHANICAL.COM
TIM Coughlin	Jensens	815-378-6241	tcoughlin@jensensph.com
DAVE TABEL	AMBER MECH.	708/597-9700	JMADOR@AMBERMECH.COM
Adam Oslos	Premier Mech Inc	224-415-0694	Marla@Premier-Mechanical-inc.com
SEAN GIBBONS	ARS CONTRACTING	773 552 2206	sgibbons@arscontracting.com
Jeff Hejna	Imperial Crane	(708) 606-9525	jhejna@imperialcrane.com
Jamar Slade	Johnson Controls/York	(312) 919-3009	jamar.a.slade@jci.com
CHRIS RASCH	Hayes Mech	773-910-7180	CRASCH@HayesMechanical.com
JOHN GRIGUS	IDEAL HTG	708-680-5000	avsherc@ameritech.net
GERALD VORIS	VORIS MECH, INC	630.521-1311	gvoris@vorismechanical.com
ANTHONY BAFFA	Core Mechanical	312-307-8575	ABAFFA@coremechanicalinc.com
Jan Zerkowski	Pw-Tempof 2L	(773) 292-0681	protem1@pwrmech.com
DOUG KENNERIK	HSPISO	847-659-6600	dkennerik@hspiso.com

Conley Elementary School Chiller and Rooftop Unit Replacement

750 Academic Drive
Algonquin, Illinois 60102

Huntley CSD #158
650 Academic Drive
Algonquin, Illinois 60102



**WOLD ARCHITECTS
AND ENGINEERS**

110 North Brockway, Suite 220
Palatine, Illinois 60067

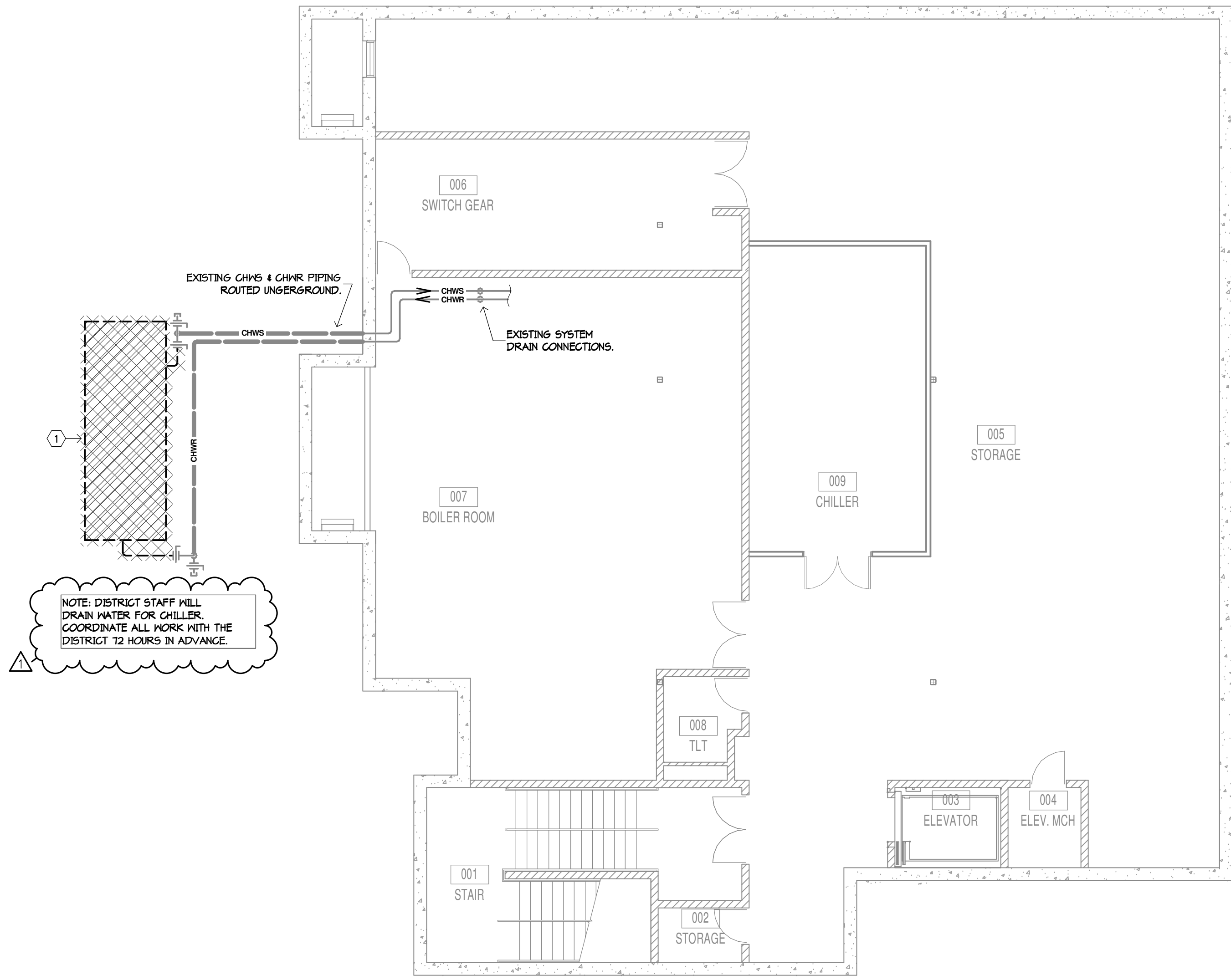
woldac.com | 847.241.6100

DEMOLITION PLAN GENERAL NOTES:

- MECHANICAL CONTRACTOR SHALL DETERMINE LIMITATIONS AND/OR CONFLICTS RELATIVE TO THE EXECUTION OF HIS WORK PRIOR TO BID. VERIFY EXACT DETAIL OF INSTALLATION REQUIRED TO PROVIDE SYSTEMS SHOWN WITHIN SPACE INTENDED.
- ALL EXISTING SERVICES SHALL BE MAINTAINED AT ALL TIMES, UNLESS OTHERWISE INDICATED ON THE PLANS. COORDINATE DISRUPTION OF SERVICES WITH OWNER TO PROVIDE AN ACCEPTABLE TIME FOR DOWN TIME.
- MECHANICAL CONTRACTOR SHALL BE RESPONSIBLE FOR CUTTING AND PATCHING OF EXISTING CONSTRUCTION UNLESS OTHERWISE NOTED ON PLANS. NO CUTTING OF STRUCTURAL MEMBERS OR STRUCTURE WHICH WILL DETERIORATE THE INTEGRITY AND STRENGTH OF THE BUILDING WILL BE ALLOWED WITH OUT WRITTEN APPROVAL FROM THE STRUCTURAL ENGINEER.
- THE MECHANICAL CONTRACTOR SHALL REMOVE ALL EXISTING CEILING TILES AND GRIDS AS REQUIRED FOR INSTALLATION OF NEW WORK. ANY DAMAGED TILES AND OR GRIDS SHALL BE REPLACED WITH NEW TO MATCH AT THE CONTRACTORS EXPENSE.
- THE MECHANICAL CONTRACTOR SHALL REMOVE ALL SYSTEMS SHOWN BOLD AND DASHED. ALL SYSTEMS NOT SHOWN BOLD AND DASHED SHALL REMAIN.
- PATCH AND REPAIR OPENINGS THROUGH WALLS AND FLOORS WHERE MECHANICAL SYSTEMS WERE REMOVED TO MATCH EXISTING AND TO MAINTAIN FIRE RATING. WALL FINISHED BY OTHERS.

DEMOLITION PLAN KEYED NOTES:

- REMOVE EXISTING AIR-COOLED CHILLER. DISCONNECT ALL EXISTING HYDRONIC PIPING AND ASSOCIATED POWER AND CONTROL WIRING. PREPARE EACH FOR RECONNECTION TO NEW EQUIPMENT.
- REMOVE EXISTING ROOFTOP UNIT. DISCONNECT ALL EXISTING HYDRONIC PIPING, DUCTWORK, AND ASSOCIATED POWER AND CONTROL WIRING. PREPARE EACH FOR RECONNECTION TO NEW EQUIPMENT.
- REMOVE EXISTING LIGHTNING PROTECTION DEVICES AND REINSTALL ON NEW EQUIPMENT.

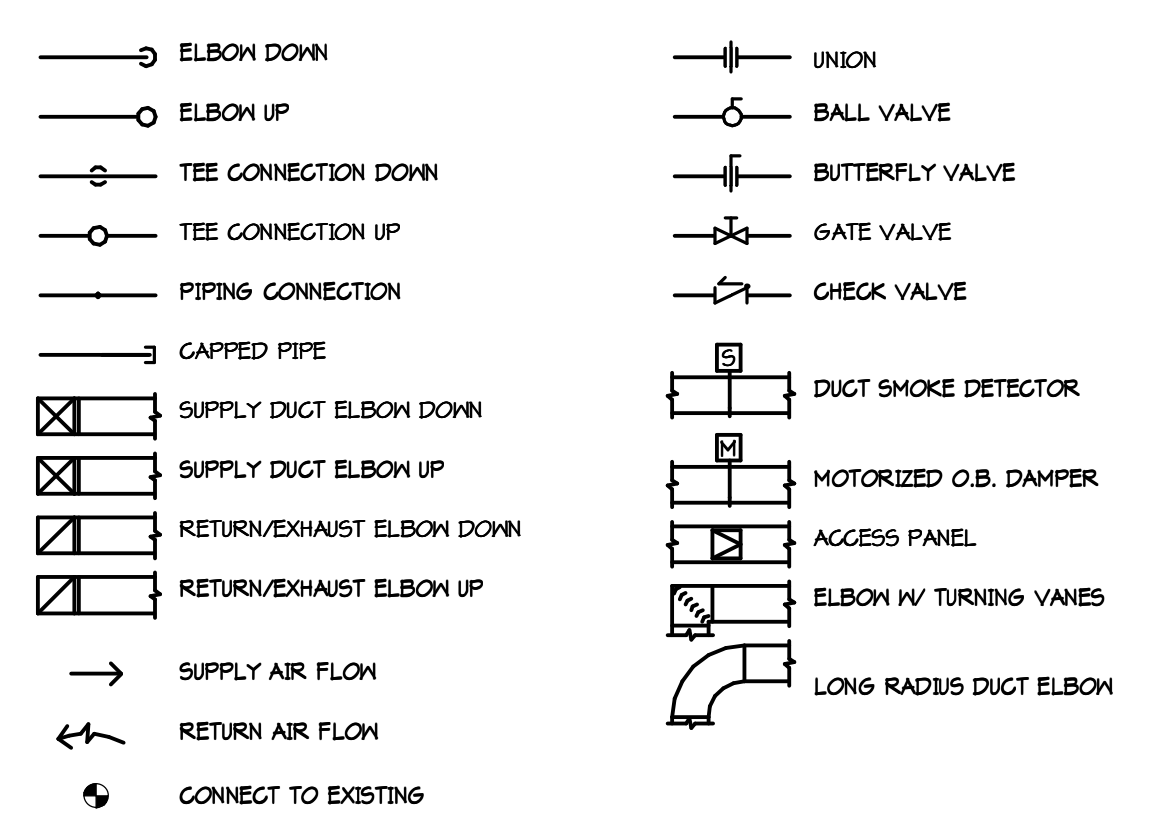


C4 CHILLER MECHANICAL DEMOLITION PLAN
1/8" = 1'-0"

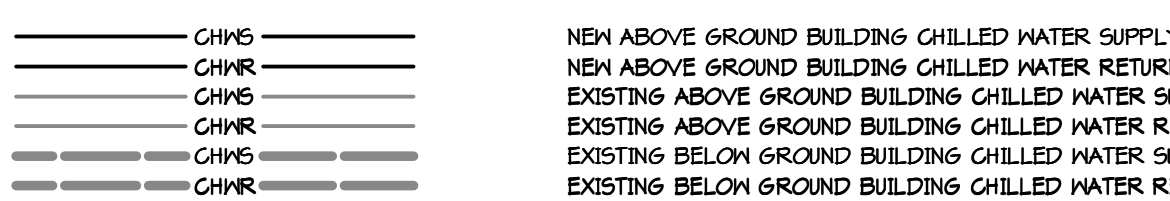
MECHANICAL ABBREVIATIONS

AD	AREA DRAIN	GR	GRILLE
AFF	ABOVE FINISHED FLOOR	HB	HOSE BIBB
AHAP	AS HIGH AS POSSIBLE	HGM	HARD GOLD WATER
BFF	BELOW FINISHED FLOOR	HP	HORSE POWER
BLDG	BUILDING	HW	HOT WATER
BSMT	BASEMENT	INV	INVERT
BTWN	BETWEEN	KH	KILOWATT
CB	CATCH BASIN	LAT	LEAVING AIR TEMPERATURE
CFM	CUBIC FEET/MINUTE	LHT	LEAVING WATER TEMPERATURE
CHW	CIRCULATING HOT WATER	MAX	MAXIMUM
CL6	CEILING	MBH	1000 BTU
CO	CLEANOUT	MESH	MECHANICAL
CONCR	CONCRETE	MH	MANHOLE
CONTR	CONTRACTOR	MN	MINIMUM
CH	COLD WATER	NTS	NOT TO SCALE
DB	DRY BULB	OA	OUTSIDE AIR
DEG	DEGREE	OPD	OPPOSED BLADE DAMPER
DIA	DIAMETER	ORD	OVERFLOW ROOF DRAIN
DIFF	DIFFUSER	P#	PLUMBING FIXTURE NUMBER
EAT	ENTERING AIR TEMPERATURE	P 4 T	PRESSURE AND THERMOSTATIC
EDR	SQUARE FEET RADIATION	PD	PRESSURE DROP
EFF	EFFICIENCY	PLBG	PLUMBING
EL	ELBOW	QUAN	QUANTITY
ELEG	ELECTRICAL	RA	RETURN AIR
ELEV	ELEVATION	RD	ROOF DRAIN
EWT	ENTERING WATER TEMPERATURE	REG	REGISTER
EXH	EXHAUST	REQD	REQUIRED
EXIST	EXISTING	RPM	REVOLUTIONS/MINUTE
F	DEGREES FAHRENHEIT	SA	SUPPLY AIR
F 4 T	FLOAT AND THERMOSTATIC	SGN	SOFT GOLD WATER
FD	FLOOR DRAIN	SHT	SHEET
FI	FIRE HYDRANT	SP	STATIC PRESSURE
FLA	FULL LOAD AMPS	TD	TEMPERATURE DIFFERENCE
FLR	FLOOR	VTR	VENT THROUGH ROOF
FTR	FINED TUBE RADIATION	WV	WET BULB
GN	GENERAL	WB	WET BULB
GPM	GALLONS/MINUTE	WH	HALL HYDRANT

MECHANICAL SYMBOLS



MECHANICAL LINETYPES



I hereby certify that this plan, specification or report was prepared by me or under my direct supervision and that I am a duly Licensed PROFESSIONAL ENGINEER under the laws of the State of ILLINOIS

MATTHEW T. VERDUN
062.059546 Date: 04/04/2017

Description	Revisions	
	Date	Num
ADDENDUM #1	4/13/17	1

Comm: 173011
Date: 04/04/2017
Drawn: BMO
Check: MTW
North

CHILLER MECHANICAL DEMOLITION PLAN

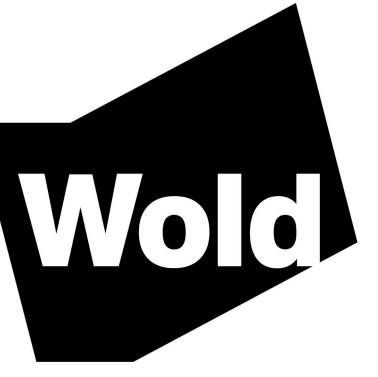
Scale: 1/8" = 1'-0"

M0.11

Conley Elementary School Chiller and Rooftop Unit Replacement

750 Academic Drive
Algonquin, Illinois 60102

Huntley CSD #158
650 Academic Drive
Algonquin, Illinois 60102

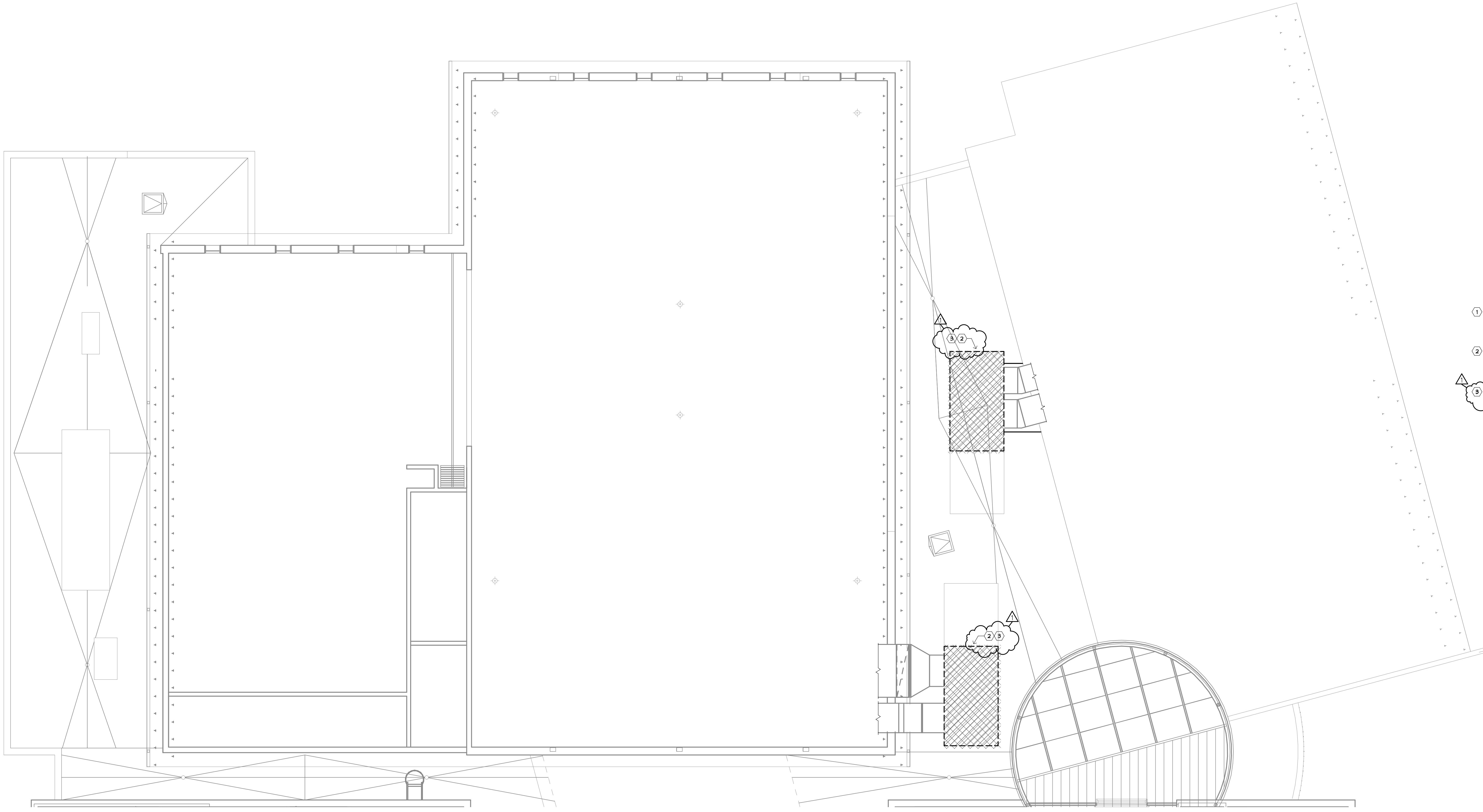


WOLD ARCHITECTS AND ENGINEERS

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Palatine, Illinois 60067

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- DEMOLITION PLAN GENERAL NOTES:**
1. MECHANICAL CONTRACTOR SHALL DETERMINE LIMITATIONS AND/OR CONFLICTS RELATIVE TO THE EXECUTION OF HIS WORK PRIOR TO BID. VERIFY EXACT DETAIL OF INSTALLATION REQUIRED TO PROVIDE SYSTEMS SHOWN WITHIN SPACE INTENDED.
 2. ALL EXISTING SERVICES SHALL BE MAINTAINED AT ALL TIMES, UNLESS OTHERWISE INDICATED ON THE PLANS. COORDINATE DISRUPTION OF SERVICES WITH OWNER TO PROVIDE AN ACCEPTABLE TIME FOR DOWN TIME.
 3. MECHANICAL CONTRACTOR SHALL BE RESPONSIBLE FOR CUTTING AND PATCHING OF EXISTING CONSTRUCTION UNLESS OTHERWISE NOTED ON PLANS. NO CUTTING OF STRUCTURAL MEMBERS OR STRUCTURE WHICH WILL DEGRADE THE INTEGRITY AND STRENGTH OF THE BUILDING WILL BE ALLOWED WITH OUT WRITTEN APPROVAL FROM THE STRUCTURAL ENGINEER.
 4. THE MECHANICAL CONTRACTOR SHALL REMOVE ALL EXISTING CEILING TILES AND GRIDS AS REQUIRED FOR INSTALLATION OF NEW WORK. ANY DAMAGED TILES OR GRIDS SHALL BE REPLACED WITH NEW TO MATCH AT THE CONTRACTORS EXPENSE.
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 2. REMOVE EXISTING ROOFTOP UNIT. DISCONNECT ALL EXISTING HYDRONIC PIPING, DUCTWORK, AND ASSOCIATED POWER AND CONTROL WIRING. PREPARE EACH FOR RECONNECTION TO NEW EQUIPMENT.
 3. REMOVE EXISTING LIGHTNING PROTECTION DEVICES AND REINSTALL ON NEW EQUIPMENT.



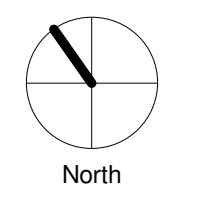
D1 ROOFTOP UNIT MECHANICAL DEMOLITION PLAN
1/8" = 1'-0"

I hereby certify that this plan, specification or report was prepared by me or under my direct supervision and that I am a duly Licensed PROFESSIONAL ENGINEER under the laws of the State of ILLINOIS

MATTHEW T. VERDUN
License Number: 062.059546 Date: 04/04/2017

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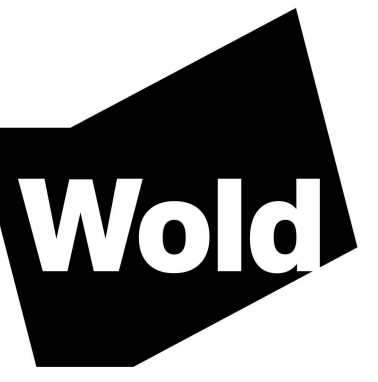


ROOFTOP UNIT MECHANICAL DEMOLITION PLAN

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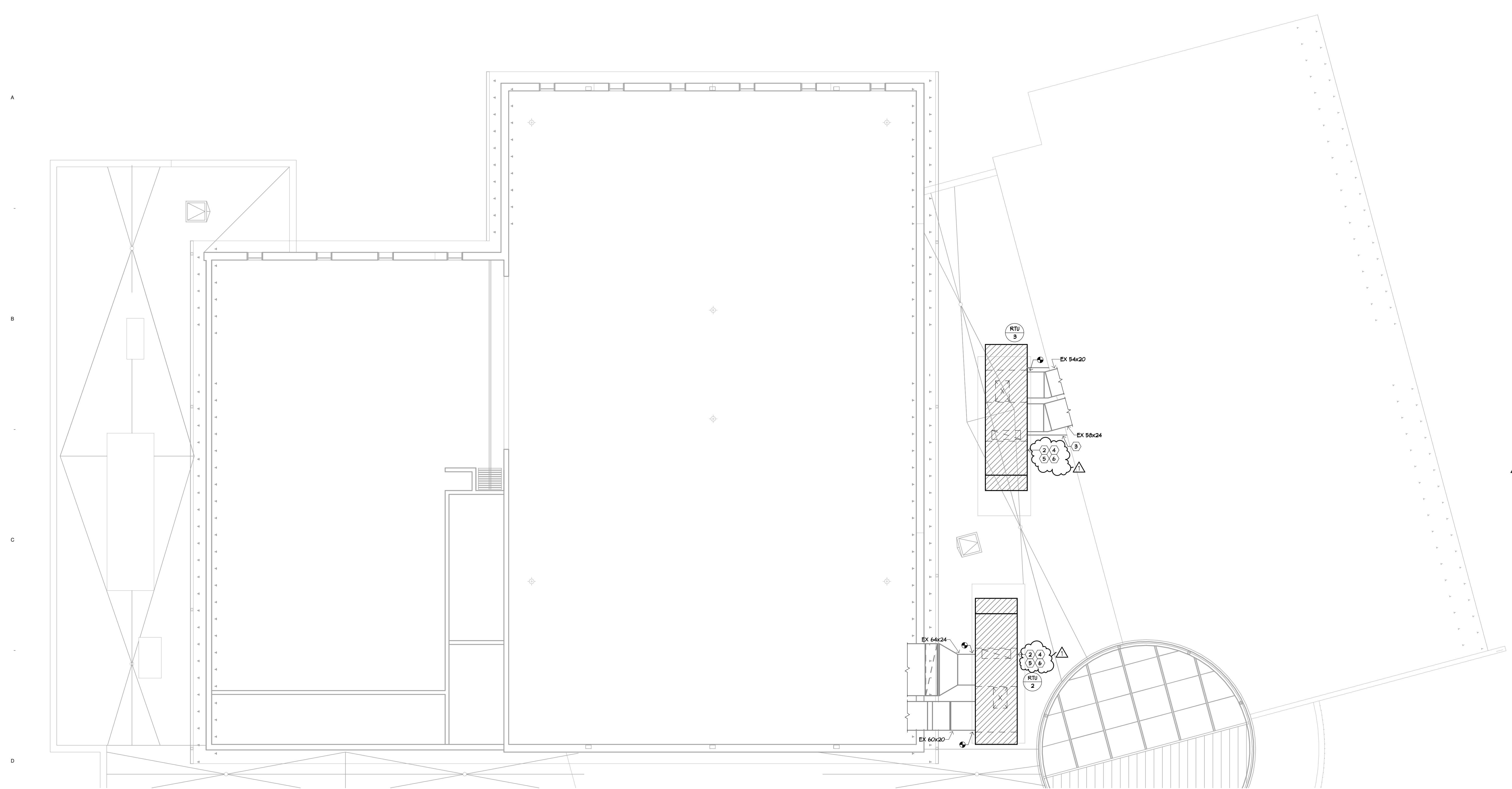


MECHANICAL PLAN GENERAL NOTES:

1. ALL RISERS AND DROPS IN DUCTWORK AND PIPING ARE NOT NECESSARILY SHOWN. LAYOUT ROUTING AND COORDINATE WORK WITH OTHER TRADES BEFORE CONSTRUCTION.
2. MECHANICAL CONTRACTOR SHALL BE RESPONSIBLE FOR CUTTING AND PATCHING OF CONSTRUCTION UNLESS OTHERWISE NOTED ON THE PLANS. NO CUTTING OF STRUCTURAL MEMBERS OR STRUCTURE WHICH WILL DETERIORATE THE INTEGRITY AND STRENGTH OF THE BUILDING WILL BE ALLOWED WITHOUT WRITTEN APPROVAL FROM THE STRUCTURAL ENGINEER.
3. LOCATE ALL VALVES, METERS, GANGES, AND PIPING SPECIALTIES ABOVE ACCESSIBLE CEILING.
4. THE MECHANICAL CONTRACTOR SHALL REMOVE ALL EXISTING CEILING TILES AND GRIDS AS REQUIRED FOR INSTALLATION OF NEW WORK. ANY DAMAGED TILES AND OR GRIDS SHALL BE REPLACED WITH NEW TO MATCH AT THE CONTRACTORS EXPENSE.
5. MECHANICAL CONTRACTOR SHALL DETERMINE LIMITATIONS AND/OR CONFLICTS RELATIVE TO THE EXECUTION OF HIS WORK PRIOR TO BID. VERIFY EXACT DETAIL OF INSTALLATION REQUIRED TO PROVIDE SYSTEMS SHOWN WITHIN SPACE INTENDED.
6. PROVIDE 4" REINFORCED CONCRETE PAD UNDER ALL NEW GROUND-MOUNTED EQUIPMENT.
7. FIELD VERIFY ALL EQUIPMENT AND LAYOUT DIMENSIONS PRIOR TO FABRICATING DUCTWORK AND PIPING.

MECHANICAL PLAN KEYED NOTES:

1. RECONNECT ALL EXISTING HYDRONIC PIPING, AND ASSOCIATED POWER AND CONTROL WIRING CONNECTIONS ASSOCIATED WITH REMOVED EQUIPMENT. PROVIDE NEW GALVANIZED SPRINGS WITH NEOPRENE PADS AND 2" DEFLECTION. SECURE SPRINGS TO CONCRETE PAD.
2. RECONNECT ALL EXISTING DUCTWORK, HYDRONIC PIPING, AND ASSOCIATED POWER AND CONTROL WIRING CONNECTIONS ASSOCIATED WITH REMOVED EQUIPMENT. PROVIDE NEW VIBRATION ROOF CURB WITH HORIZONTAL OPENINGS TO ACCOMMODATE EXISTING DUCTWORK.
3. REMOVE EXISTING METAL DUCTWORK COVERING AS NECESSARY TO COMPLETE NEW WORK. REINSTALL COVERING AND PROVIDE ROOF/WALL PATCHING AS NECESSARY TO MAKE WATERTIGHT.
4. VERIFY REQUIRED CURB HEIGHT AND OPENING DIMENSIONS IN FIELD TO CONNECT TO EXISTING DUCTWORK. DASHED LINES INDICATE APPROXIMATE LOCATIONS OF UNIT SUPPLY AND RETURN CONNECTIONS AND CURB PLENUM WALL LOCATIONS.
5. REINSTALL EXISTING LIGHTNING PROTECTION DEVICES (CABLES, RODS, ETC.) ON NEW EQUIPMENT.
6. ALL METAL DECK SURFACES INVOLVED DURING THE REMOVAL/INSTALLATIONS OF EQUIPMENT SHALL BE PAINTED WITH A RUST-INHIBITIVE WATERBORNE ACRYLIC PRIMER BEFORE BEING CONCEALED.



D1 ROOFTOP UNIT MECHANICAL NEW WORK PLAN
1/8" = 1'-0"

ROOFTOP UNIT SCHEDULE (RTU X)

UNIT NO.	SERVES	MANUFACTURER	MODEL NUMBER	SUPPLY FAN DATA							EXHAUST FAN DATA							COOLING DATA							HEATING COIL							HEAT RECOVERY - COOLING SEASON							HEAT RECOVERY - HEATING SEASON							FILTERS		REMARKS
				FAN SIZE	CFM	TOTAL S.P.	RPM	BHP	HP	VOLTS	PHASE	QTY	FAN SIZE	CFM	TOTAL S.P.	RPM	BHP	HP	VOLTS	PHASE	QTY	COIL TYPE	COIL ROWS	REFRIG. TYPE	ENT. AIR (DB/MB)	LVG. AIR (DB/MB)	SENS. TOTAL MBH	COIL TYPE	ENT. AIR	LVG. AIR	ENT. WATER	LVG. WATER	TOTAL MBH	CONTROL VALVE	EXH. ENT. AIR (DB/HR)	EXH. LVG. AIR (DB/MB)	OA. ENT. AIR (DB/MB)	OA. LVG. AIR (DB/MB)	EXH. ENT. AIR (DB/MB)	EXH. LVG. AIR (DB/MB)	OA. ENT. AIR (DB/MB)	OA. LVG. AIR (DB/MB)	EXH. AIR STREAM	OUTSIDE AIR STREAM				
RTU-2	STHNASIEM	ADDISON	PRM436GD4D4A	-	12,800	4.37'	1,122	13.96	15	460	3	1	-	5,900	2.67'	1,128	3.75	5	460	3	1	DX	6	R-410A	18.1F/64.0F	55.2F/54.2F	315.2	428.7	11H	54.5F	112.4F	140.0F	132.0F	334.0	76.0	2-4WAY	78.0F/80.0%	81.7F/70.3F	48.0F/75.0F	82.2F/61.9F	10.0F/64.0F	16.5F/71.3F	-10.0F/71.0F	40.0F/55.3F	MERV 8	MERV 8	1,2,3,4,5,6,7,8,9,10	
RTU-3	ADMINISTRATION HNG	ADDISON	PRM436GD4D4A	-	13,200	5.00'	1,091	11.56	15	460	3	1	-	5,900	2.43'	1,148	3.76	5	460	3	1	DX	6	R-410A	11.9F/64.0F	55.9F/54.3F	316.4	428.9	11H	54.5F	112.0F	130.0F	335.0	80.0	2-4WAY	78.0F/80.0%	84.5F/70.4F	48.0F/75.0F	81.3F/61.3F	10.0F/64.0F	13.1F/74.6F	-10.0F/71.0F	43.0F/51.6F	MERV 8	MERV 8	1,2,3,4,5,6,7,8,9,10		

- NOTES:**
1. INSTALL IN ACCORDANCE WITH MANUFACTURER'S WRITTEN INSTRUCTIONS.
 2. SUPPLY AND EXHAUST FANS INDICATED ARE CONTROLLED BY VARIABLE FREQUENCY DRIVES PROVIDED BY THE MECHANICAL CONTRACTOR. ALL VARIABLE FREQUENCY DRIVES FOR THE ENTIRE PROJECT SHALL BE BY RTU SAME MANUFACTURER.
 3. PROVIDE FACTORY OPTIONAL 4.0 HP POWERED EXHAUST CAPABLE OF MODULATION FOR BUILDING PRESSURE CONTROL.
 4. PROVIDE AIRFLOW MEASURING DEVICES AT THE INLET TO EACH FAN.
 5. UNIT CONTROL CABINET TO INCLUDE MIN. 24"x16" CLEAR SPACE FOR FIELD INSTALLED CONTROL EQUIPMENT.
 6. PROVIDE AIR-TO-AIR HEAT EXCHANGER WITH BYPASS DAMPERS FOR FROST CONTROL, AND REGULATION DAMPERS.
 7. PROVIDE FACTORY-MOUNTED INTEGRAL SMOKE DETECTOR AT EXHAUST AIR DUCTS.
 8. PROVIDE FACTORY OPTIONAL MODULATING HOT GAS REHEAT FOR HUMIDITY CONTROL.
 9. REPLACE EXISTING ROOF CURB WITH NEW VIBRATION-ISOLATED, INSULATED ROOF CURB WITH PRE-FABRICATED HORIZONTAL SIDEWALL OPENINGS TO CONNECT TO EXISTING DUCTWORK. VERIFY REQUIRED CURB HEIGHT IN FIELD TO ACCOMMODATE EXISTING DUCTWORK ROUTING AND DIMENSIONS.
 10. UNIT CONTROLS AND WIRING TO BE FIELD INSTALLED BY CTS. COORDINATE EXTENT OF FIELD VS. FACTORY WIRING WITH CTS. ALL DAMPERS AND CONTROL VALVES SHALL BE FACTORY INSTALLED AND WIRED FOR POWER, CTS TO PROVIDE 0-10 VDC CONTROL SIGNAL AND WIRING TO EACH.

I hereby certify that this plan, specification or report was prepared by me or under my direct supervision and that I am a duly Licensed PROFESSIONAL ENGINEER under the laws of the State of ILLINOIS

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