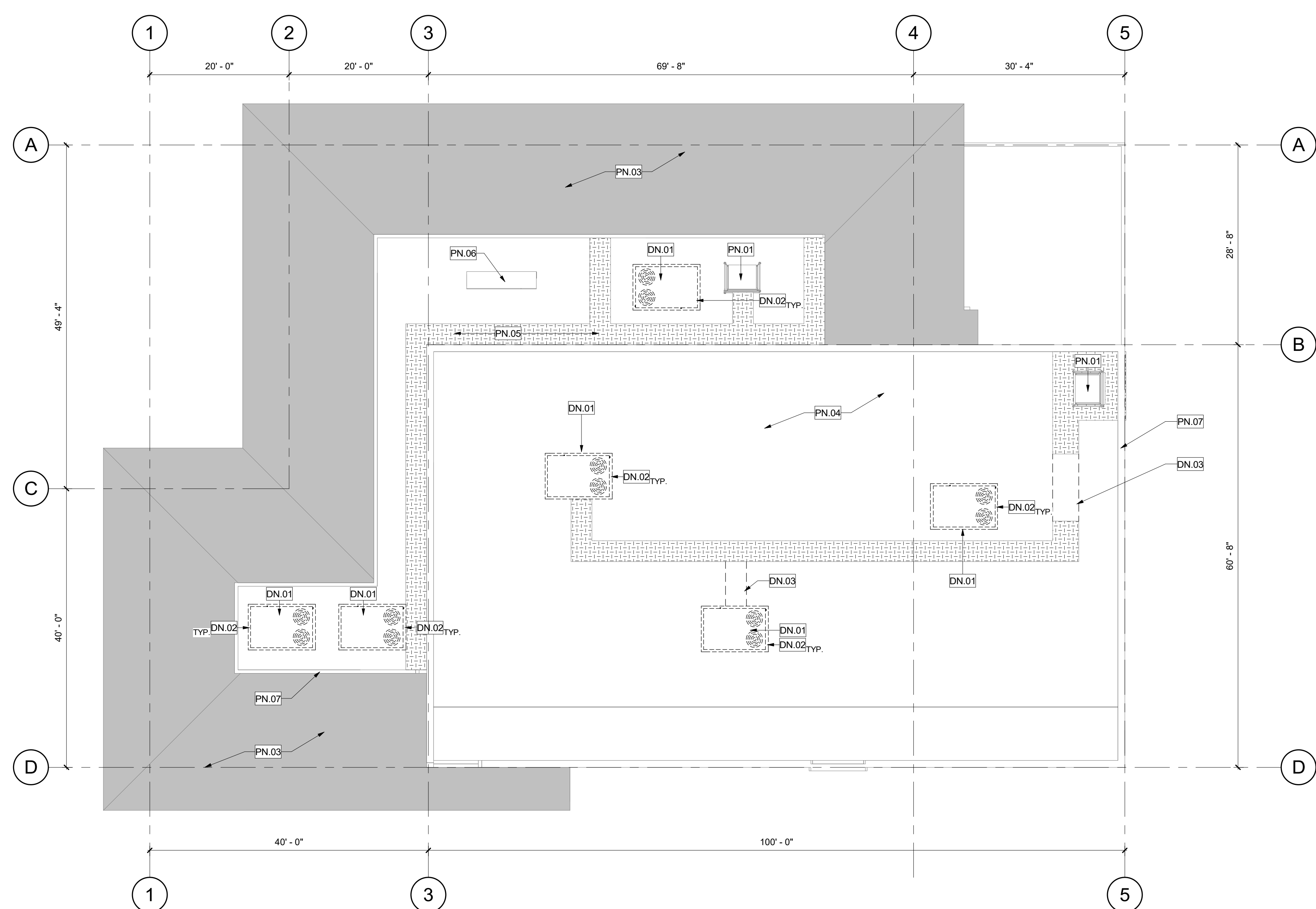


RENOVATION ROOF PLAN - MULTI PURPOSE

3

1" = 10'-0"



DEMOLITION ROOF PLAN - MULTI PURPOSE

2

1" = 10'-0"

GENERAL NOTES

1. PATCH, REPAIR, OR REPLACE EXISTING MATERIALS DAMAGED BY WORK. PAINT ANY PATCHED AND REPAIRED SURFACES TO MATCH EXISTING COLOR AND FINISH - SEE SPEC. SECTION 01 73 29-CUTTING AND PATCHING REQUIREMENTS
2. EXECUTION OF WORK SHALL BE DONE WITH APPLICABLE MATERIALS SO THAT SURFACES REPLACED WILL UPON COMPLETION MATCH SURROUNDING SURFACES OF SAME MATERIAL.
3. FIRE PROTECTION DURING DEMOLITION AND CONSTRUCTION SHALL BE IN ACCORDANCE WITH 2022 CFC, CHAPTER 33.
4. REFER TO MECHANICAL DRAWINGS FOR MECHANICAL SCOPE OF WORK.

PROTECTION KEYNOTES

PN#	DESCRIPTION
PN.01	(E) ROOF ACCESS HATCH. PROTECT IN PLACE DURING CONSTRUCTION
PN.03	(E) ASPHALT SHINGLES ROOFING TO REMAIN. PROTECT IN PLACE DURING CONSTRUCTION
PN.04	(E) SINGLE PLY ROOFING TO REMAIN. PROTECT IN PLACE DURING CONSTRUCTION
PN.05	(E) WALKING MAT TO REMAIN. PROTECT IN PLACE DURING CONSTRUCTION
PN.06	EXISTING ROOFTOP MAKE-UP AIR UNIT TO REMAIN AND PROTECT IN PLACE DURING CONSTRUCTION
PN.07	(E) 96" HEIGHT PARAPET WALL TO REMAIN AND PROTECT IN PLACE

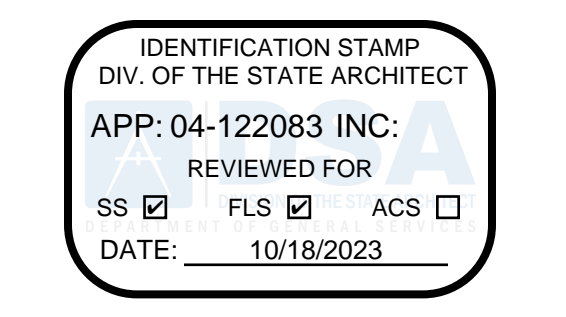
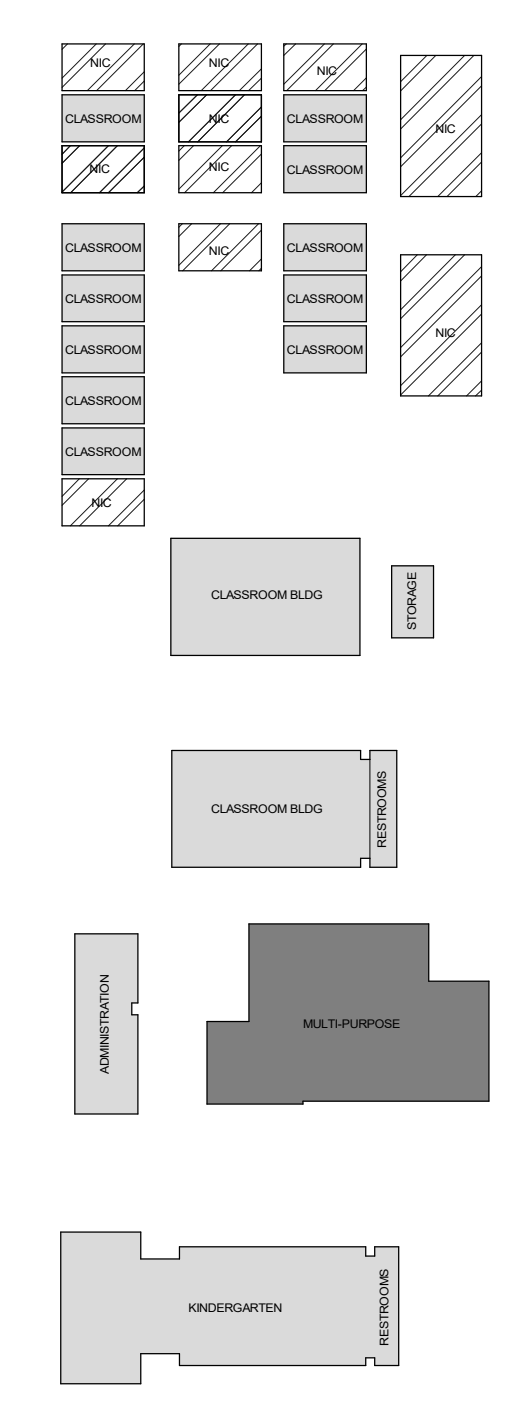
DEMOLITION KEYNOTES

DN#	DESCRIPTION
DN.01	REMOVE EXISTING ROOFTOP AIR CONDITIONING UNIT
DN.02	DEMOLISH EXISTING CURBS
DN.03	REMOVE PORTION OF THE WALKING MAT, AND PREPARE THE AREA FOR THE NEW LOCATION OF THE ROOFTOP AIR CONDITION

RENOVATION KEYNOTES

SN#	DESCRIPTION
SN.01	ROOFTOP AIR CONDITIONING UNIT PER MECHANICAL DRAWINGS
SN.02	ROOF CURB, REFER TO STRUCTURAL DRAWINGS 1/50-2.1

KEY PLAN

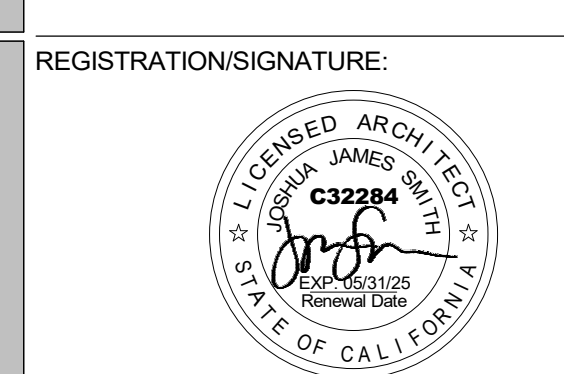


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**SCHOOL DISTRICT**  
 13427 CAHUENGA ROAD  
 VICTORVILLE, CA

ISSUED FOR:  
 DSA SUBMITTAL - 09/10/23  
 DSA SUBMITTAL - V2 - 09/20/23  
 DSA SUBMITTAL - V3 - 09/11/23

REVISIONS:



SHEET TITLE:  
**ROOF PLANS -**  
**MULTI-PURPOSE**

SHEET NUMBER:  
**A5-1.1**

WD PROJ # 22825 | DRAWN BY MS | CHECKED MC/CW | DATE 09/11/23

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**LEGEND**

- (E) WALL
- N.I.C.

**GENERAL NOTES**

1. PATCH, REPAIR, OR REPLACE EXISTING MATERIALS DAMAGED BY WORK. PAINT ANY PATCHED AND REPAIRED SURFACES TO MATCH EXISTING COLOR AND FINISH.
2. EXECUTION OF WORK SHALL BE DONE WITH APPLICABLE MATERIALS SO THAT SURFACES REPLACED WILL UPON COMPLETION MATCH SURROUNDING SURFACES OF SAME MATERIAL.
3. FIRE PROTECTION DURING DEMOLITION AND CONSTRUCTION SHALL BE IN ACCORDANCE WITH 2022 CFC, CHAPTER 33.
4. REFER TO MECHANICAL DRAWINGS FOR MECHANICAL SCOPE OF WORK.

**PROTECTION KEYNOTES** P.N.#

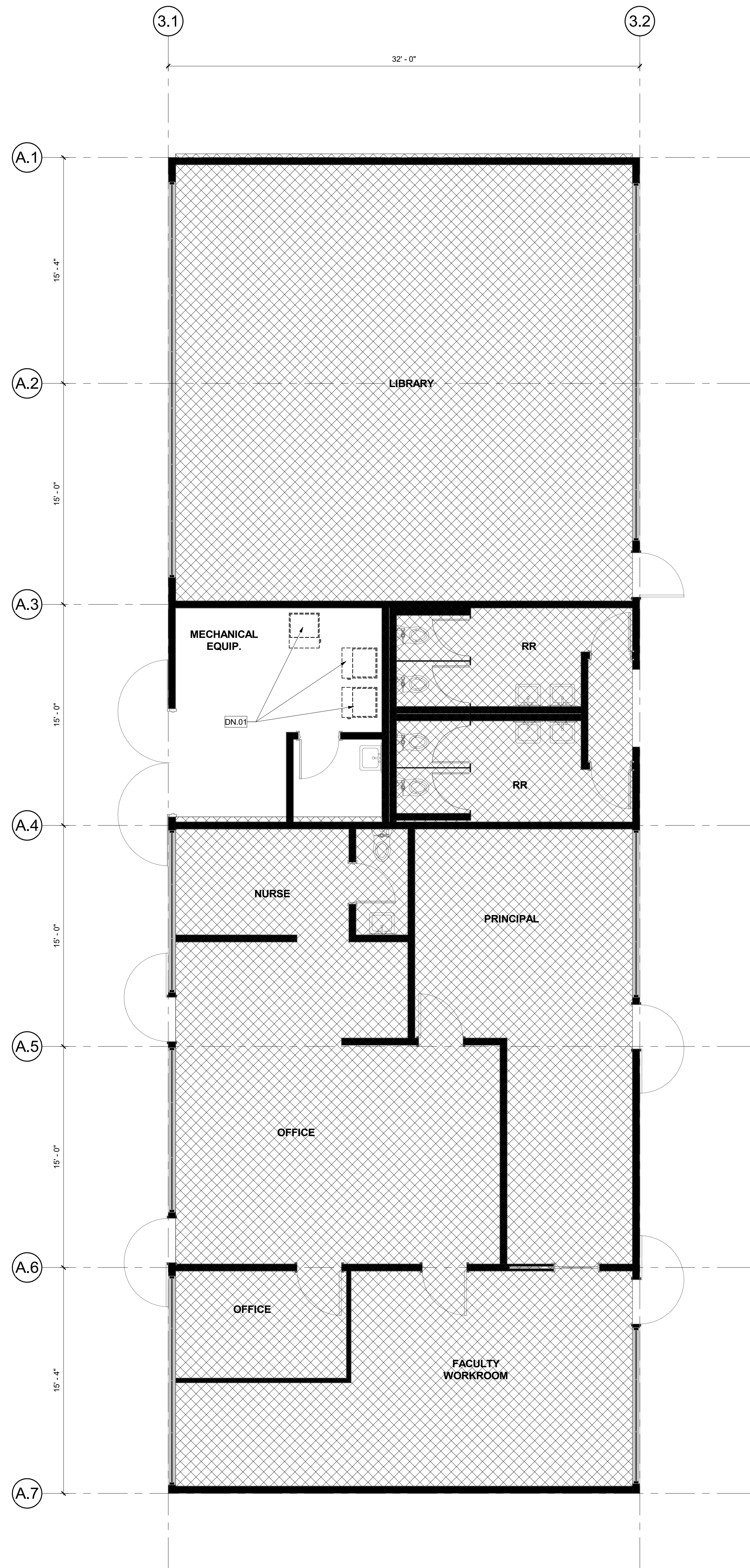
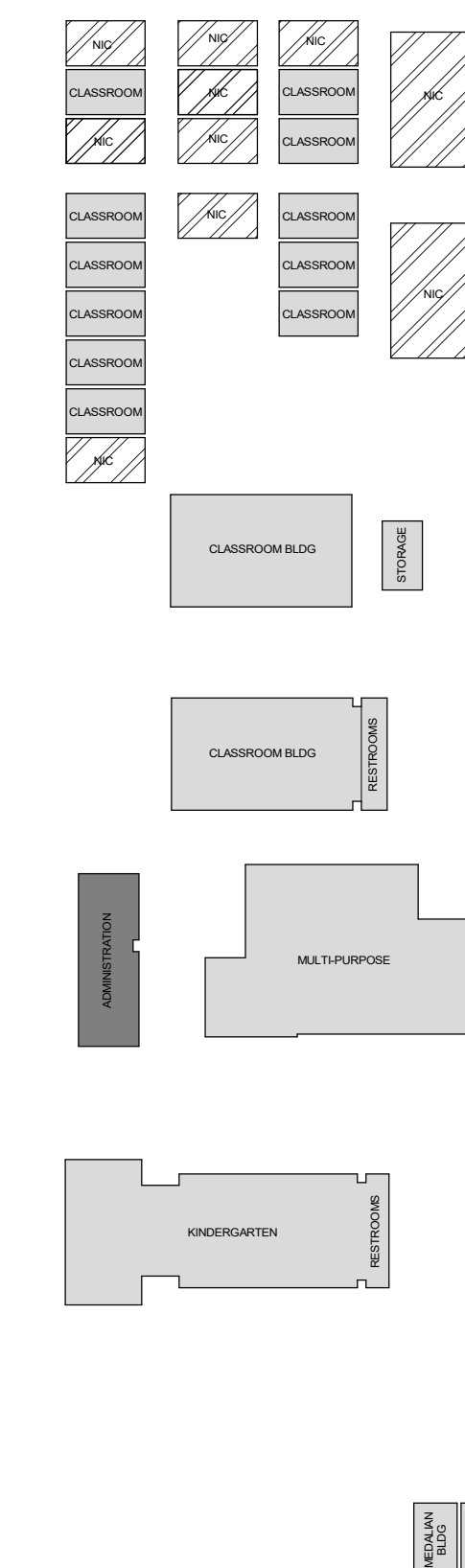
**DEMOLITION KEYNOTES** DN.#

DN#	DESCRIPTION
DN.01	REMOVE EXISTING INDOOR GAS - ELECTRIC FURNACE UNIT

**RENOVATION KEYNOTES** SN.#

SN#	DESCRIPTION
SN.01	INDOOR GAS - ELECTRIC FURNACE UNIT PER MECHANICAL DRAWINGS

**KEY PLAN**



DEMOLITION FLOOR PLAN - ADMIN BLDG

1  
 1/4" = 1'-0"



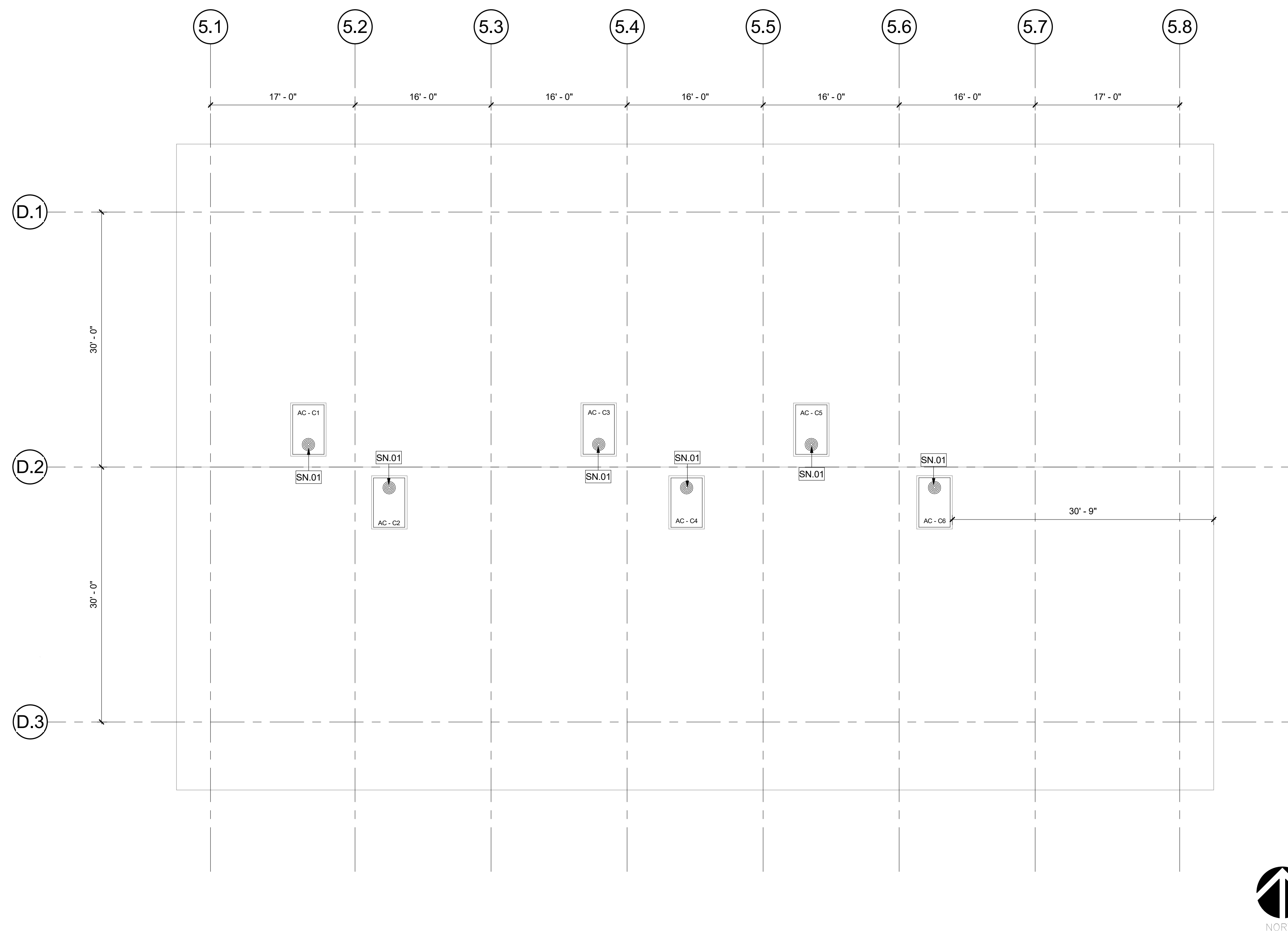
RENOVATION FLOOR PLAN - ADMIN BLDG

2  
 1/4" = 1'-0"



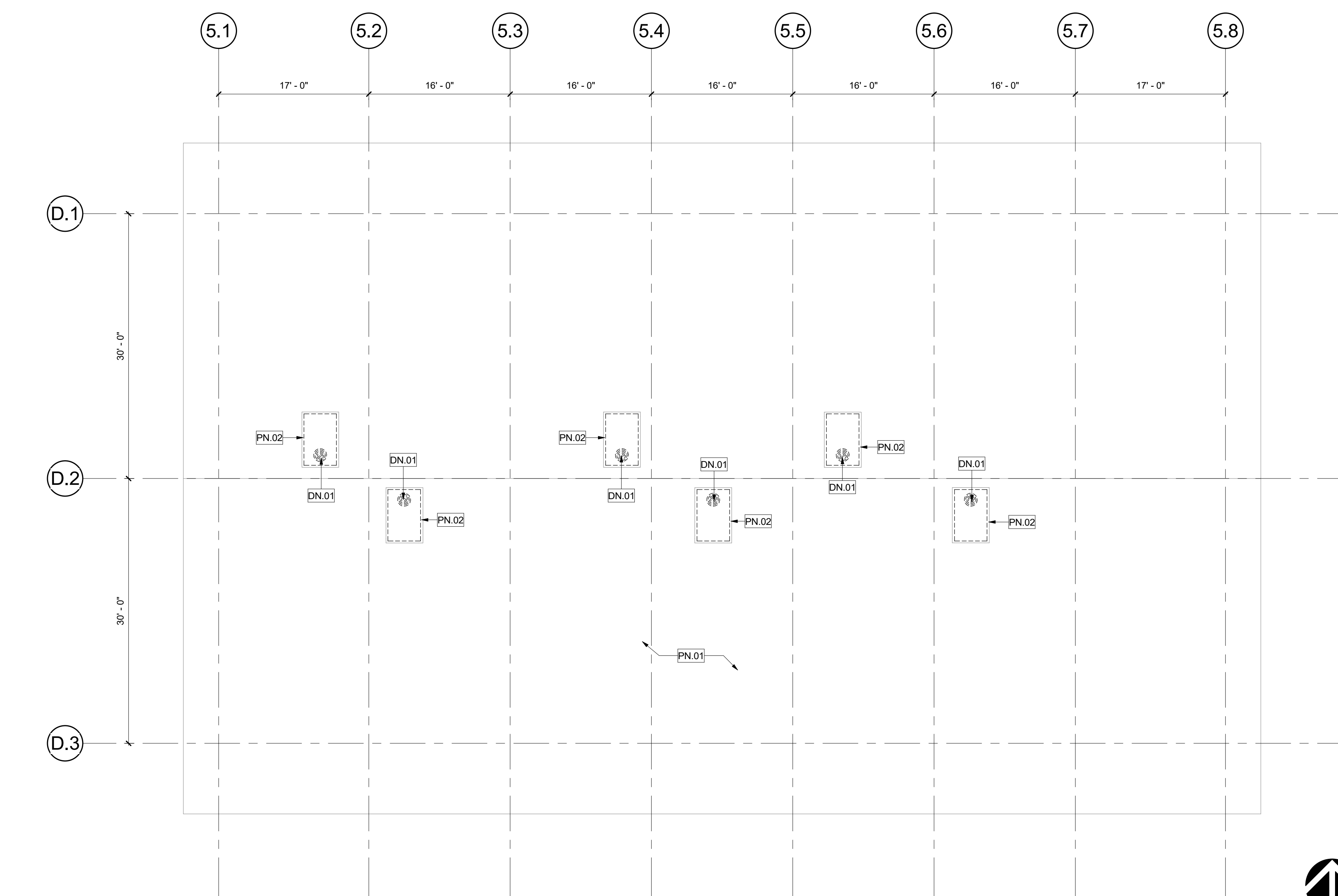






RENOVATION ROOF PLAN - BUILDING D - CLASSROOMS

2  
1/8" = 1'-0"



DEMOLITION ROOF PLAN - BUILDING D - CLASSROOMS

1  
1/8" = 1'-0"

**GENERAL NOTES**

1. PATCH, REPAIR, OR REPLACE EXISTING MATERIALS DAMAGED BY WORK. PAINT ANY PATCHED AND REPAIRED SURFACES TO MATCH EXISTING COLOR AND FINISH.
2. EXECUTION OF WORK SHALL BE DONE WITH APPLICABLE MATERIALS SO THAT SURFACES REPLACED WILL UPON COMPLETION MATCH SURROUNDING SURFACES OF SAME MATERIAL.
3. FIRE PROTECTION DURING DEMOLITION AND CONSTRUCTION SHALL BE IN ACCORDANCE WITH 2022 CFC, CHAPTER 33.
4. REFER TO MECHANICAL DRAWINGS FOR MECHANICAL SCOPE OF WORK.

**PROTECTION KEYNOTES**

SN#	DESCRIPTION
PN.01	(E) SINGLE PLY ROOFING TO REMAIN. PROTECT IN PLACE DURING CONSTRUCTION
PN.02	(E) ROOF CURB TO REMAIN AND PROTECT IN PLACE DURING CONSTRUCTION

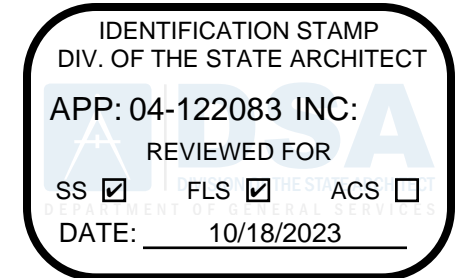
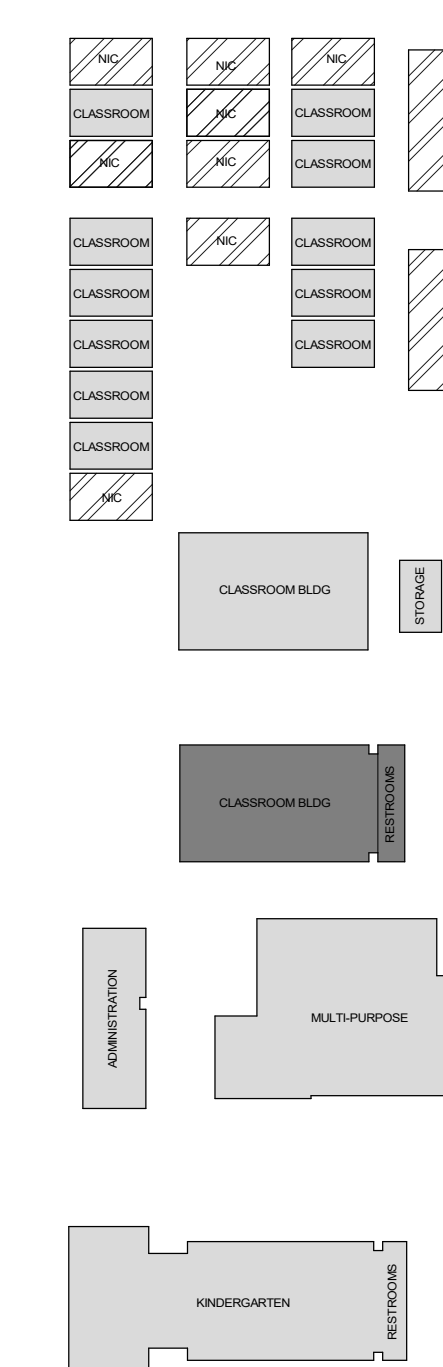
**DEMOLITION KEYNOTES**

DN#	DESCRIPTION
DN.01	REMOVE EXISTING ROOF TOP AIR CONDITIONING UNIT

**RENOVATION KEYNOTES**

SN#	DESCRIPTION
SN.01	ROOFTOP AIR CONDITIONING UNIT PER MECHANICAL DRAWINGS

**KEY PLAN**



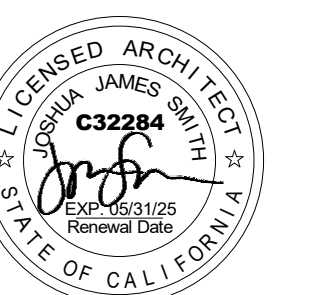
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VICTORVILLE, CA

ISSUED FOR:	DATE
DSA SUBMITTAL	09/10/23
DSA SUBMITTAL - V2	09/20/23
DSA SUBMITTAL - V3	09/11/23

REVISIONS:

REGISTRATION/SIGNATURE:



SHEET TITLE:  
**ROOF PLANS -  
BUILDING D -  
CLASSROOMS**

SHEET NUMBER:  
**A5-1.5**

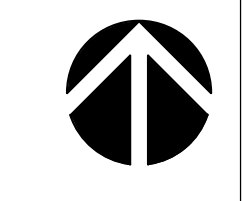
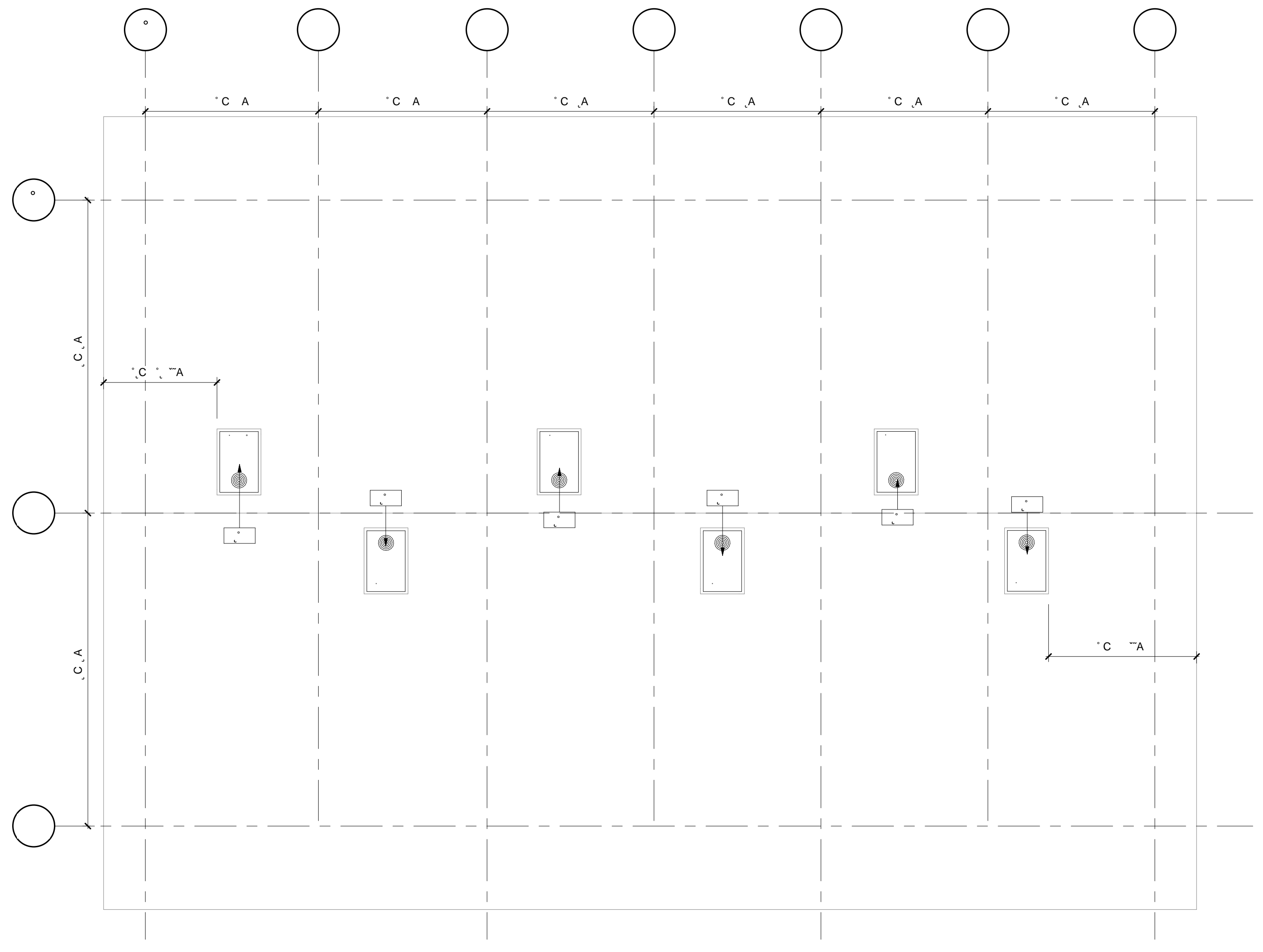
WD PROJ #	DRAWN BY	CHECKED	DATE
22825	MS	MC/CW	09/11/23

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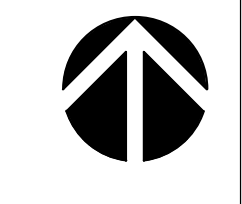
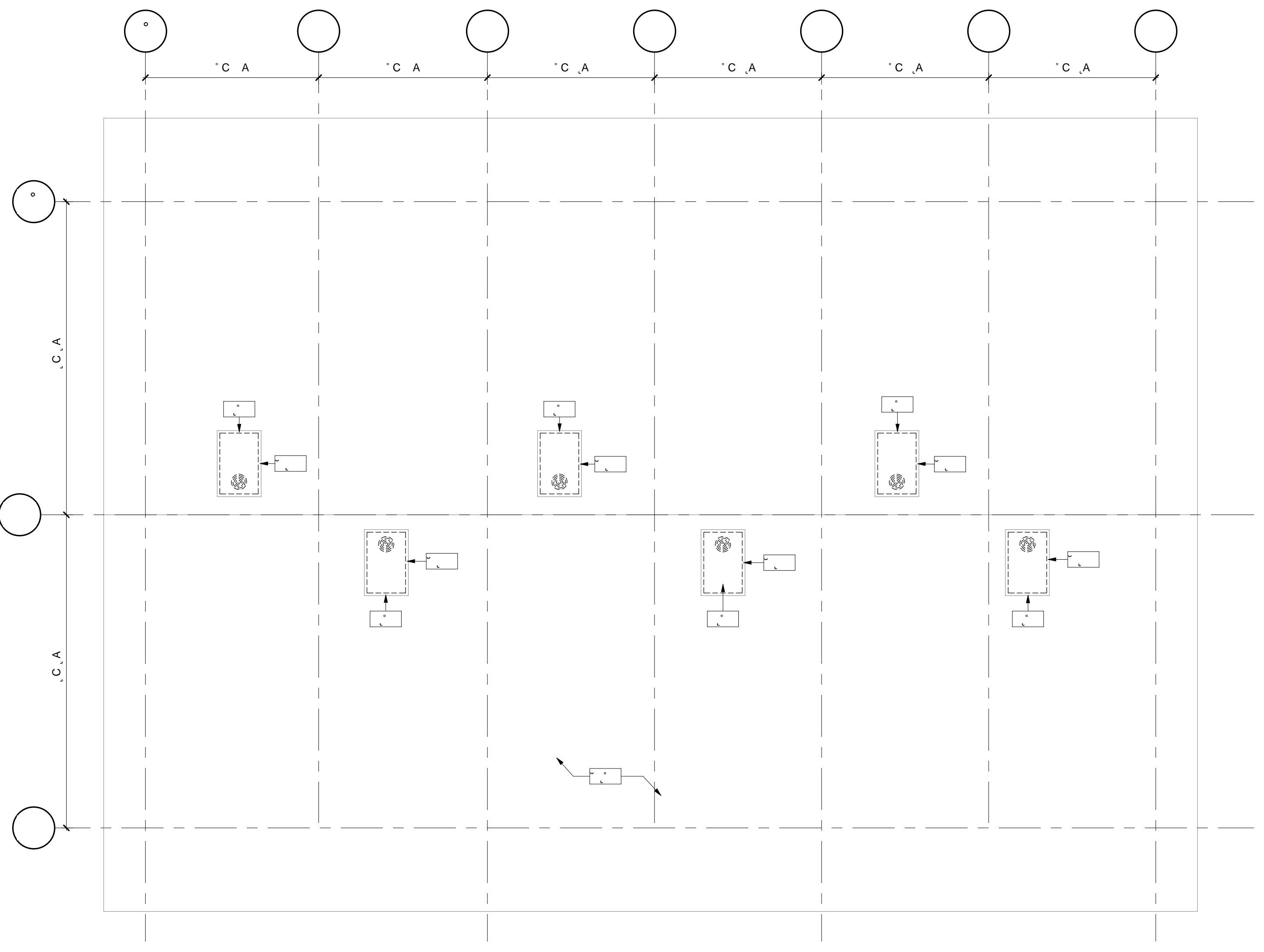


IDENTIFICATION STAMP  
 DIV. OF THE STATE ARCHITECT  
 APP: 04-122083 INC.  
 REVIEWED FOR  
 SS  FLS  ACS   
 DATE: 10/18/2023

**WD**  
**WESTGROUP**  
**DESIGNS**  
 45/675 87.9-5 7/1  
 59+  
 S &  
 587?+=48@



AB C A



AB C A

Architectural notes and specifications, including material callouts and construction details. The notes are organized into sections with arrows pointing to specific areas of the floor plan. Some notes include material names like 'Ceramic Tile' and 'Solid Surface'. There are also notes regarding door and window specifications.

Professional seal and signature area. It includes a circular seal with the text 'WESTGROUP DESIGNS' and a signature. Below the seal are several lines of text, likely project information or a legend. There are also some numerical notations and symbols.























AIR CONDITIONER SCHEDULE (PACKAGED) (CLASSROOM 13 THRU 18)							
UNIT SYMBOL	AC-D1	AC-D2	AC-D3	AC-D4	AC-D5	AC-D6	
LOCATION	ROOF	ROOF	ROOF	ROOF	ROOF	ROOF	
SERVICE	CLASSROOM 15	CLASSROOM 18	CLASSROOM 14	CLASSROOM 17	CLASSROOM 13	CLASSROOM 16	
SHEET REFERENCE	M2-1.5	M2-1.5	M2-1.5	M2-1.5	M2-1.5	M2-1.5	
MANUFACTURER	CARRIER	CARRIER	CARRIER	CARRIER	CARRIER	CARRIER	
MODEL	48FCDA06	48FCDA06	48FCDA06	48FCDA06	48FCDA06	48FCDA06	
TYPE	GAS/ELEC	GAS/ELEC	GAS/ELEC	GAS/ELEC	GAS/ELEC	GAS/ELEC	
DISCHARGE	SIDE	SIDE	SIDE	SIDE	SIDE	SIDE	
SUPPLY FAN	INDOOR FAN - CFM	1650	1650	1650	1650	1650	1650
	MIN. OUTSIDE AIR - CFM	525	525	525	525	525	525
	EXTERNAL S.P. - "WG	0.85	0.85	0.85	0.85	0.85	0.85
	BLOWER BHP / RPM	0.86/ 1999	0.86/ 1999	0.86/ 1999	0.86/ 1999	0.86/ 1999	0.86/ 1999
COOLING	EVAP. EAT - "F - DB	84.6	84.6	84.6	84.6	84.6	84.6
	EVAP. EAT - "F - WB	64.6	64.6	64.6	64.6	64.6	64.6
	EVAP. LAT - "F - DB	57.7	57.7	57.7	57.7	57.7	57.7
	EVAP. LAT - "F - WB	54.9	54.9	54.9	54.9	54.9	54.9
	CND. EAT - "F - DB	115.0	115.0	115.0	115.0	115.0	115.0
	COOLING CAPACITY - MBH	47.90	47.90	47.90	47.90	47.90	47.90
	COOLING CAPACITY SENSIBLE - MBH	47.90	47.90	47.90	47.90	47.90	47.90
	REFRIGERANT TYPE / CAPACITY (LBS-OZ)	R410A / 7.6	R410A / 7.6	R410A / 7.6	R410A / 7.6	R410A / 7.6	R410A / 7.6
	ARI EER / SEER	- / 14.00	- / 14.00	- / 14.00	- / 14.00	- / 14.00	- / 14.00
	COMPRESSOR INPUT - KW	5.08	5.08	5.08	5.08	5.08	5.08
HEATING	INDOOR COIL EAT - "F - DB	65.0	65.0	65.0	65.0	65.0	65.0
	INDOOR COIL LAT - "F - DB	95.3	95.3	95.3	95.3	95.3	95.3
	HEATING INPUT - MBH / STAGE	(1) 67.0	(1) 67.0	(1) 67.0	(1) 67.0	(1) 67.0	(1) 67.0
	MIN AFUE %	81.0	81.0	81.0	81.0	81.0	81.0
ELECTRICAL	COMPRESSOR NO. / RLA (EA)	1 / 16.0	1 / 16.0	1 / 16.0	1 / 16.0	1 / 16.0	1 / 16.0
	OUTDOOR FAN MOTOR NO. / FLA (EA)	1 / 1.5	1 / 1.5	1 / 1.5	1 / 1.5	1 / 1.5	1 / 1.5
	INDOOR FAN MOTOR FLA	9.2	9.2	9.2	9.2	9.2	9.2
	COMBUSTION FAN MOTOR NO. / FLA (EA)	1 / 0.48	1 / 0.48	1 / 0.48	1 / 0.48	1 / 0.48	1 / 0.48
	MCA / MOP	31 / 45	31 / 45	31 / 45	31 / 45	31 / 45	31 / 45
	VOLTAGE / PHASE	208 / 3	208 / 3	208 / 3	208 / 3	208 / 3	208 / 3
FILTER TYPE	2" - MERV-13	2" - MERV-13	2" - MERV-13	2" - MERV-13	2" - MERV-13	2" - MERV-13	
CONDENSER COIL HAIL GUARD (LOUVERED)	REQUIRED	REQUIRED	REQUIRED	REQUIRED	REQUIRED	REQUIRED	
FLUE DEFLECTOR	REQUIRED	REQUIRED	REQUIRED	REQUIRED	REQUIRED	REQUIRED	
ECONOMIZER MANUFACTURER / MODEL NO.	MICROMETL ECH-SRT12CB-D00B	MICROMETL ECH-SRT12CB-D00B	MICROMETL ECH-SRT12CB-D00B	MICROMETL ECH-SRT12CB-D00B	MICROMETL ECH-SRT12CB-D00B	MICROMETL ECH-SRT12CB-D00B	
POWER EXHAUST MANUFACTURER / MODEL NO.	N/A	N/A	N/A	N/A	N/A	N/A	
CURB MANUFACTURER / MODEL NO.	EXISTING	EXISTING	EXISTING	EXISTING	EXISTING	EXISTING	
SHIM CURB MANUFACTURER / MODEL NO.	N/A	N/A	N/A	N/A	N/A	N/A	
OPERATING WEIGHT (LBS)	632	632	632	632	632	632	
DIMENSIONS (L"xW"xH")	74.4" x 46.6" x 33.4"	74.4" x 46.6" x 33.4"	74.4" x 46.6" x 33.4"	74.4" x 46.6" x 33.4"	74.4" x 46.6" x 33.4"	74.4" x 46.6" x 33.4"	
DETAIL REFERENCE	4/MO-2.1	4/MO-2.1	4/MO-2.1	4/MO-2.1	4/MO-2.1	4/MO-2.1	
REMARKS	1,2,3,4,5	1,2,3,4,5	1,2,3,4,5	1,2,3,4,5	1,2,3,4,5	1,2,3,4,5	
REMARKS							
1- UNIT COMPLETE WITH MODULATING ECONOMIZER WITH 100% OUTSIDE AIR INTAKE, CONVENIENCE OUTLET, LOUVERED HAIL GUARD, FLUE DEFLECTOR.							
2- OPERATING WEIGHT INCLUDES WEIGHT OF BASE UNIT, ECONOMIZER AND ACCESSORIES.							
3- VARIABLE SPEED INDOOR FAN.							
4- PROVIDE LOW SOUND OUTDOOR FAN.							
5- PROVIDE FACTORY MOUNTED AND TESTED BIPOLAR IONIZATION SYSTEM PER UNIT SPECIFICATION REQUIREMENTS. MANUFACTURER SHALL PROVIDE A TRANSFORMER PACKAGE TO INTERNALLY POWER THE BIPOLAR IONIZATION.							

EXISTING AIR CONDITIONER AND NEW AIR CONDITIONER COMPARISON SCHEDULE (CLASSROOM 13 THRU 18)													
UNIT SYMBOL	AC-D1		AC-D2		AC-D3		AC-D4		AC-D5		AC-D6		
MANUFACTURER	CARRIER	CARRIER	CARRIER	CARRIER	CARRIER	CARRIER	CARRIER	CARRIER	CARRIER	CARRIER	CARRIER	CARRIER	
CONDITION	EXISTING	NEW	EXISTING	NEW	EXISTING	NEW	EXISTING	NEW	EXISTING	NEW	EXISTING	NEW	
MODEL	581BPV06	48FCDA06	581BPV06	48FCDA06	581BPV06	48FCDA06	581BPV06	48FCDA06	581BPV06	48FCDA06	581BPV06	48FCDA06	
DIMENSIONS (LxWxH) - IN	73.7 x 45 x 33.4	74.4 x 46.6 x 33.4	73.7 x 45 x 33.4	74.4 x 46.6 x 33.4	73.7 x 45 x 33.4	74.4 x 46.6 x 33.4	73.7 x 45 x 33.4	74.4 x 46.6 x 33.4	73.7 x 45 x 33.4	74.4 x 46.6 x 33.4	73.7 x 45 x 33.4	74.4 x 46.6 x 33.4	
UNIT WEIGHT - LBS	800	558	800	558	800	558	800	558	800	558	800	558	
CURB WEIGHT - LBS	EXISTING	EXISTING	EXISTING	EXISTING	EXISTING	EXISTING	EXISTING	EXISTING	EXISTING	EXISTING	EXISTING	EXISTING	
SHIM CURB WEIGHT - LBS	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
ECONOMIZER WEIGHT - LBS	①	74	①	74	①	74	①	74	①	74	①	74	
POWER EXHAUST WEIGHT - LBS	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
TOTAL WEIGHT - LBS	800	632	800	632	800	632	800	632	800	632	800	632	
REMARKS													
1- ECONOMIZER WEIGHT IS INCLUDED IN TOTAL WEIGHT.													

AIR CONDITIONER SCHEDULE (PACKAGED) (CLASSROOM 9 THRU 12)														
UNIT SYMBOL	AC-C1		AC-C2		AC-C3		AC-C4		AC-C5		AC-C6			
LOCATION	ROOF	ROOF	ROOF	ROOF	ROOF	ROOF	ROOF	ROOF	ROOF	ROOF	ROOF	ROOF		
SERVICE	CLASSROOM 10	CLASSROOM 09	CLASSROOM 11	LIBRARY 08	CLASSROOM 12	LIBRARY 08								
SHEET REFERENCE	M2-1.4	M2-1.4	M2-1.4	M2-1.4	M2-1.4	M2-1.4								
MANUFACTURER	CARRIER	CARRIER	CARRIER	CARRIER	CARRIER	CARRIER								
MODEL	48FCDA06	48FCDA06	48FCDA06	48FCDA06	48FCDA06	48FCDA06								
TYPE	GAS/ELEC	GAS/ELEC	GAS/ELEC	GAS/ELEC	GAS/ELEC	GAS/ELEC								
DISCHARGE	SIDE	SIDE	SIDE	SIDE	SIDE	SIDE								
SUPPLY FAN	INDOOR FAN - CFM	1650	1650	1650	1650	1650	1650	1650	1650	1650	1650	1650		
	MIN. OUTSIDE AIR - CFM	525	525	525	525	525	525	525	525	525	525	525		
	EXTERNAL S.P. - "WG	0.85	0.85	0.85	0.85	0.85	0.85	0.85	0.85	0.85	0.85	0.85		
	BLOWER BHP / RPM	0.86 / 1999	0.86 / 1999	0.86 / 1999	0.86 / 1999	0.86 / 1999	0.86 / 1999	0.86 / 1999	0.86 / 1999	0.86 / 1999	0.86 / 1999	0.86 / 1999		
COOLING	EVAP. EAT - "F - DB	84.6	84.6	84.6	84.6	84.6	84.6	84.6	84.6	84.6	84.6	84.6		
	EVAP. EAT - "F - WB	64.6	64.6	64.6	64.6	64.6	64.6	64.6	64.6	64.6	64.6	64.6		
	EVAP. LAT - "F - DB	57.7	57.7	57.7	57.7	57.7	57.7	57.7	57.7	57.7	57.7	57.7		
	EVAP. LAT - "F - WB	54.9	54.9	54.9	54.9	54.9	54.9	54.9	54.9	54.9	54.9	54.9		
	CND. EAT - "F - DB	115.0	115.0	115.0	115.0	115.0	115.0	115.0	115.0	115.0	115.0	115.0		
	COOLING CAPACITY - MBH	47.90	47.90	47.90	47.90	47.90	47.90	47.90	47.90	47.90	47.90	47.90		
	COOLING CAPACITY SENSIBLE - MBH	47.90	47.90	47.90	47.90	47.90	47.90	47.90	47.90	47.90	47.90	47.90		
	REFRIGERANT TYPE / CAPACITY (LBS-OZ)	R410A / 7.6	R410A / 7.6	R410A / 7.6	R410A / 7.6	R410A / 7.6	R410A / 7.6	R410A / 7.6	R410A / 7.6	R410A / 7.6	R410A / 7.6	R410A / 7.6		
	ARI EER / SEER	- / 14.00	- / 14.00	- / 14.00	- / 14.00	- / 14.00	- / 14.00	- / 14.00	- / 14.00	- / 14.00	- / 14.00	- / 14.00	- / 14.00	
	COMPRESSOR INPUT - KW	5.08	5.08	5.08	5.08	5.08	5.08	5.08	5.08	5.08	5.08	5.08		
HEATING	INDOOR COIL EAT - "F - DB	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0		
	INDOOR COIL LAT - "F - DB	95.3	95.3	95.3	95.3	95.3	95.3	95.3	95.3	95.3	95.3	95.3		
	HEATING INPUT - MBH / STAGE	(1) 67.0	(1) 67.0	(1) 67.0	(1) 67.0	(1) 67.0	(1) 67.0	(1) 67.0	(1) 67.0	(1) 67.0	(1) 67.0	(1) 67.0		
	MIN AFUE %	81.0	81.0	81.0	81.0	81.0	81.0	81.0	81.0	81.0	81.0	81.0		
ELECTRICAL	COMPRESSOR NO. / RLA (EA)	1 / 16.0	1 / 16.0	1 / 16.0	1 / 16.0	1 / 16.0	1 / 16.0	1 / 16.0	1 / 16.0	1 / 16.0	1 / 16.0	1 / 16.0		
	OUTDOOR FAN MOTOR NO. / FLA (EA)	1 / 1.5	1 / 1.5	1 / 1.5	1 / 1.5	1 / 1.5	1 / 1.5	1 / 1.5	1 / 1.5	1 / 1.5	1 / 1.5	1 / 1.5		
	INDOOR FAN MOTOR FLA	9.2	9.2	9.2	9.2	9.2	9.2	9.2	9.2	9.2	9.2	9.2		
	COMBUSTION FAN MOTOR NO. / FLA (EA)	1 / 0.48	1 / 0.48	1 / 0.48	1 / 0.48	1 / 0.48	1 / 0.48	1 / 0.48	1 / 0.48	1 / 0.48	1 / 0.48	1 / 0.48		
	MCA / MOP	31 / 45	31 / 45	31 / 45	31 / 45	31 / 45	31 / 45	31 / 45	31 / 45	31 / 45	31 / 45	31 / 45		
	VOLTAGE / PHASE	208 / 3	208 / 3	208 / 3	208 / 3	208 / 3	208 / 3	208 / 3	208 / 3	208 / 3	208 / 3	208 / 3		
FILTER TYPE	2" - MERV-13	2" - MERV-13	2" - MERV-13	2" - MERV-13	2" - MERV-13	2" - MERV-13	2" - MERV-13	2" - MERV-13	2" - MERV-13	2" - MERV-13	2" - MERV-13	2" - MERV-13		
CONDENSER COIL HAIL GUARD (LOUVERED)	REQUIRED	REQUIRED	REQUIRED	REQUIRED	REQUIRED	REQUIRED	REQUIRED	REQUIRED	REQUIRED	REQUIRED	REQUIRED	REQUIRED		
FLUE DEFLECTOR	REQUIRED	REQUIRED	REQUIRED	REQUIRED	REQUIRED	REQUIRED	REQUIRED	REQUIRED	REQUIRED	REQUIRED	REQUIRED	REQUIRED		
ECONOMIZER MANUFACTURER / MODEL NO.	MICROMETL ECH-SRT12CB-D00B	MICROMETL ECH-SRT12CB-D00B	MICROMETL ECH-SRT12CB-D00B	MICROMETL ECH-SRT12CB-D00B	MICROMETL ECH-SRT12CB-D00B	MICROMETL ECH-SRT12CB-D00B	MICROMETL ECH-SRT12CB-D00B	MICROMETL ECH-SRT12CB-D00B	MICROMETL ECH-SRT12CB-D00B	MICROMETL ECH-SRT12CB-D00B	MICROMETL ECH-SRT12CB-D00B	MICROMETL ECH-SRT12CB-D00B		
POWER EXHAUST MANUFACTURER / MODEL NO.	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		
CURB MANUFACTURER / MODEL NO.	EXISTING	EXISTING	EXISTING	EXISTING	EXISTING	EXISTING	EXISTING	EXISTING	EXISTING	EXISTING	EXISTING	EXISTING		
SHIM CURB MANUFACTURER / MODEL NO.	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		
OPERATING WEIGHT (LBS)	632	632	632	632	632	632	632	632	632	632	632	632		
DIMENSIONS (L"xW"xH")	74.4" x 46.6" x 33.4"	74.4" x 46.6" x 33.4"	74.4" x 46.6" x 33.4"	74.4" x 46.6" x 33.4"	74.4" x 46.6" x 33.4"	74.4" x 46.6" x 33.4"	74.4" x 46.6" x 33.4"	74.4" x 46.6" x 33.4"	74.4" x 46.6" x 33.4"	74.4" x 46.6" x 33.4"	74.4" x 46.6" x 33.4"	74.4" x 46.6" x 33.4"		
DETAIL REFERENCE	4/MO-2.1	4/MO-2.1	4/MO-2.1	4/MO-2.1	4/MO-2.1	4/MO-2.1	4/MO-2.1	4/MO-2.1	4/MO-2.1	4/MO-2.1	4/MO-2.1	4/MO-2.1		
REMARKS	1,2,3,4,5	1,2,3,4,5	1,2,3,4,5	1,2,3,4,5	1,2,3,4,5	1,2,3,4,5	1,2,3,4,5	1,2,3,4,5	1,2,3,4,5	1,2,3,4,5	1,2,3,4,5	1,2,3,4,5		
REMARKS														
1- UNIT COMPLETE WITH MODULATING ECONOMIZER WITH 100% OUTSIDE AIR INTAKE, CONVENIENCE OUTLET, LOUVERED HAIL GUARD, FLUE DEFLECTOR.														
2- OPERATING WEIGHT INCLUDES WEIGHT OF BASE UNIT, ECONOMIZER AND ACCESSORIES.														









ISSUED FOR:

REVISIONS:

REGISTRATION/SIGNATURE:

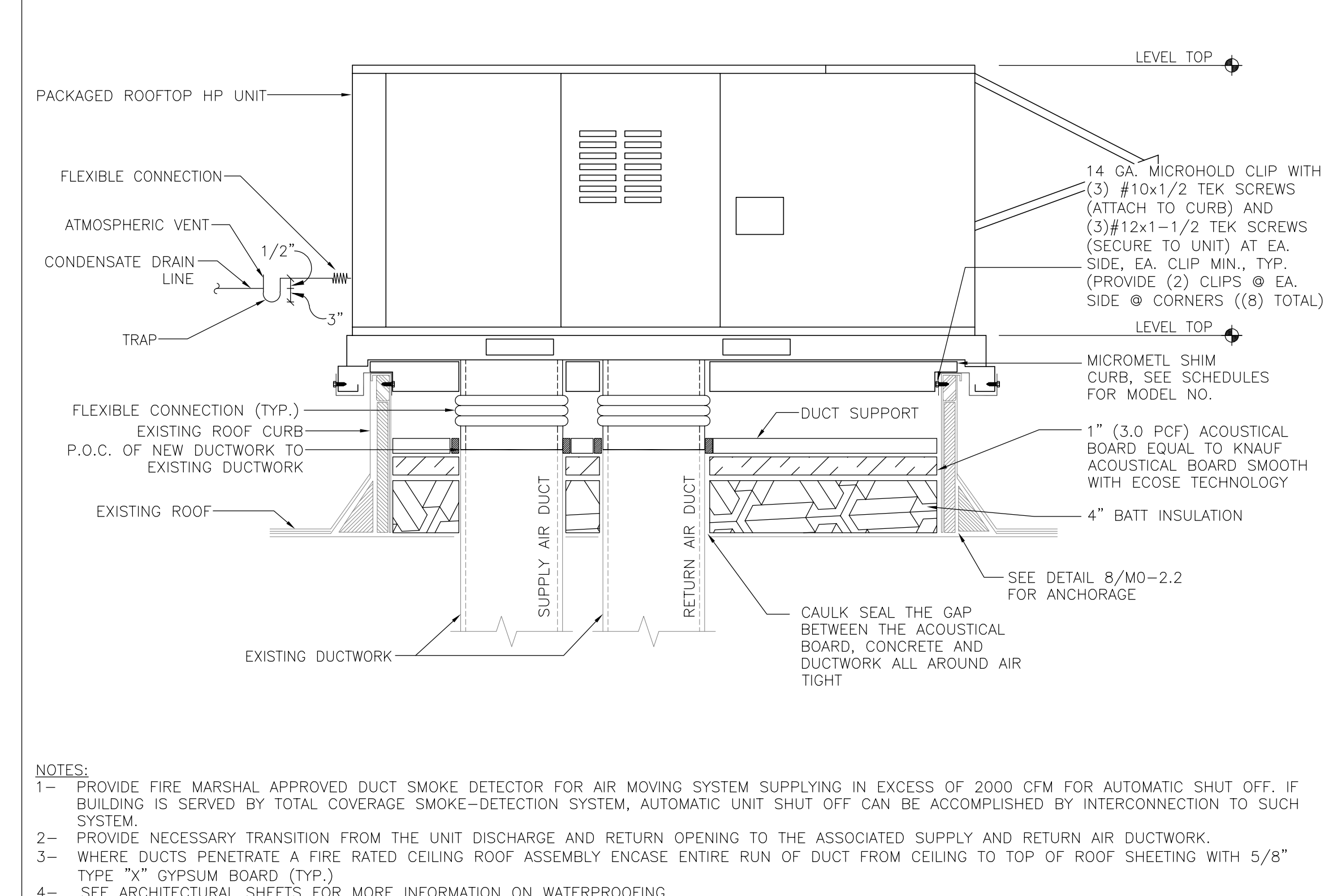
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**MECHANICAL**  
**DETAILS**

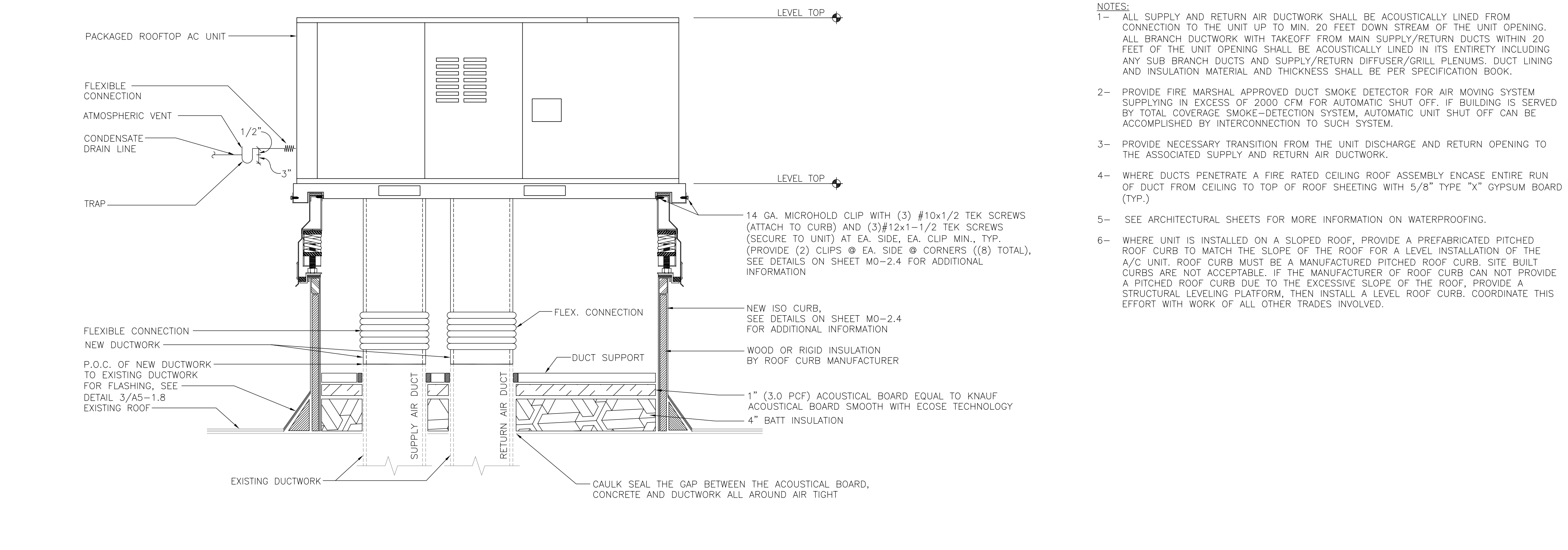
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**M0-2.2**

WD PROJ. # 22825 | DRAWN BY: | CHECKED: | DATE 07/24/23

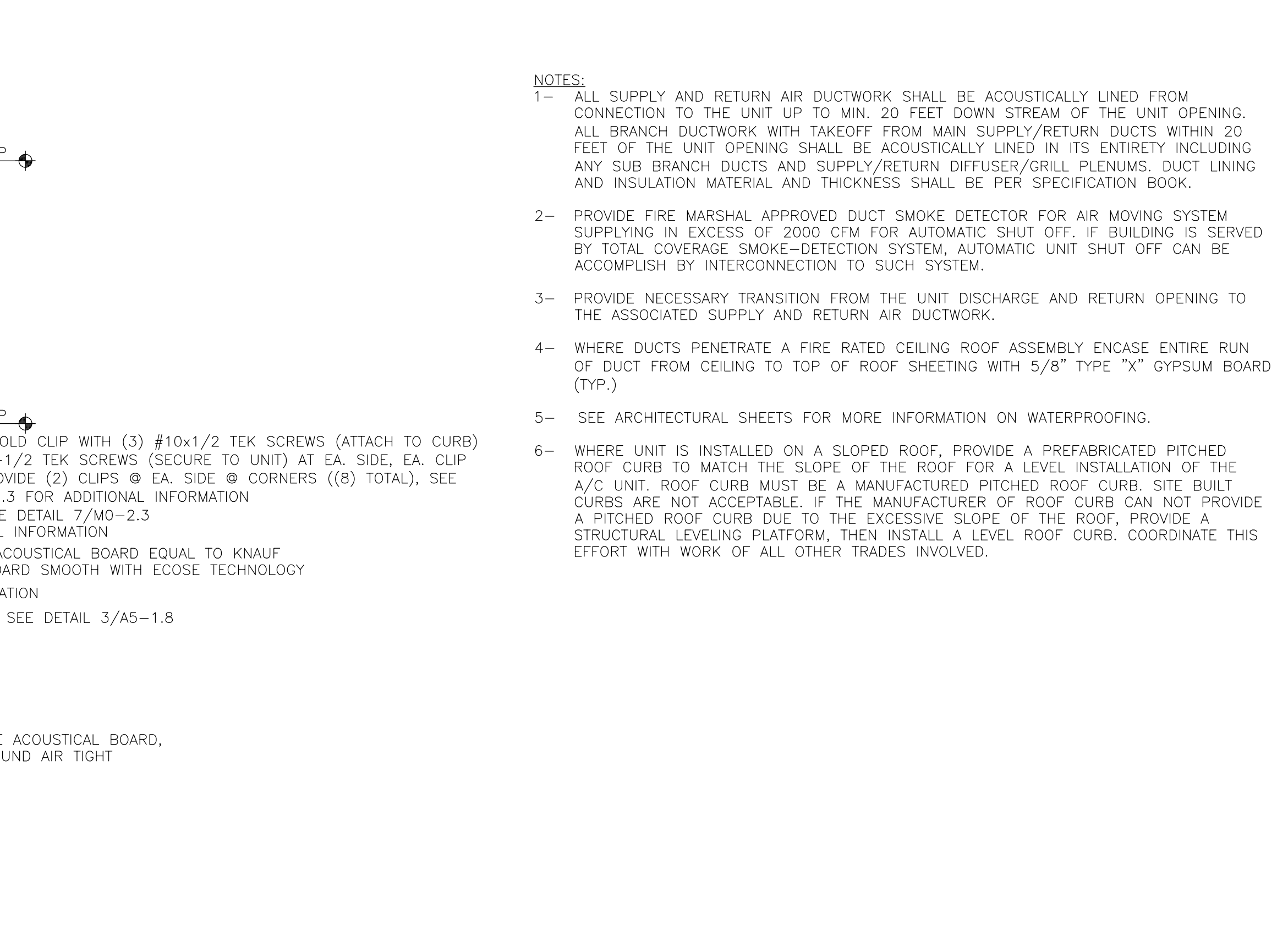
© WESTGROUP DESIGNS, INC.



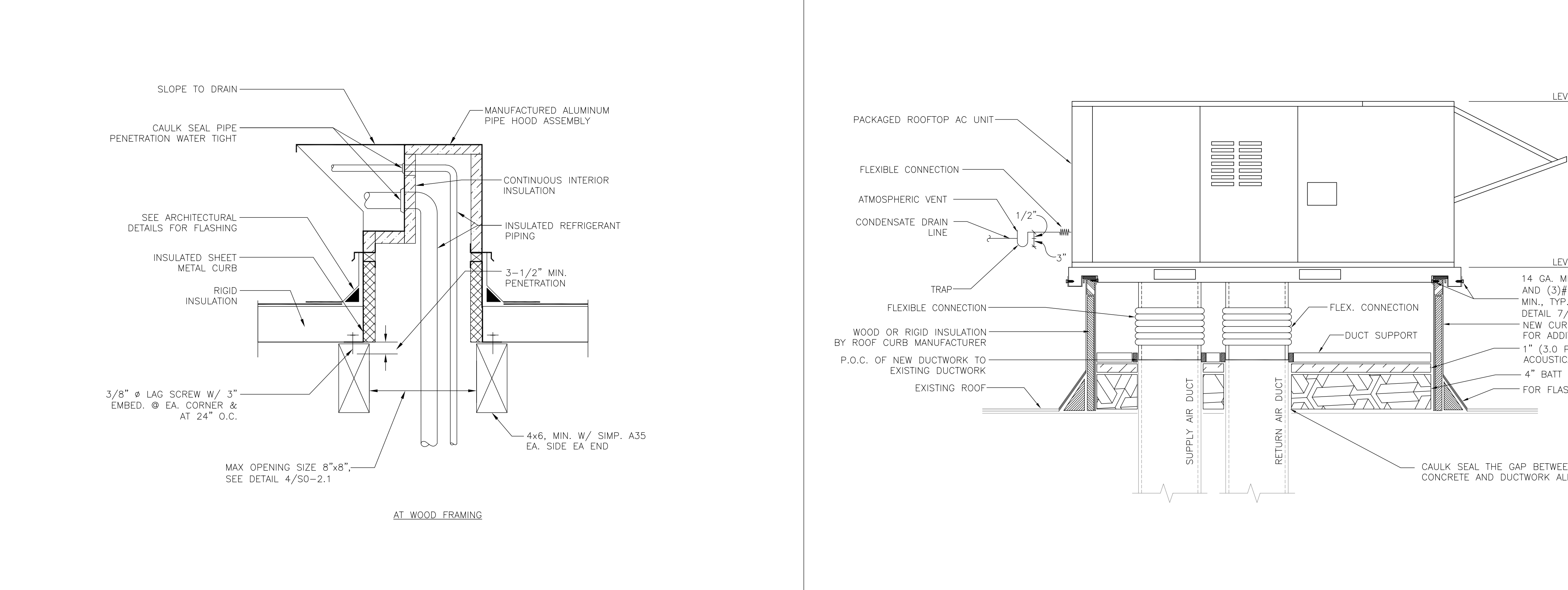
**HEAT PUMP UNIT WITH SHIM CURB INSTALLATION DETAIL (DOWN DISCHARGE) (HP-B1)** 3 NOT TO SCALE



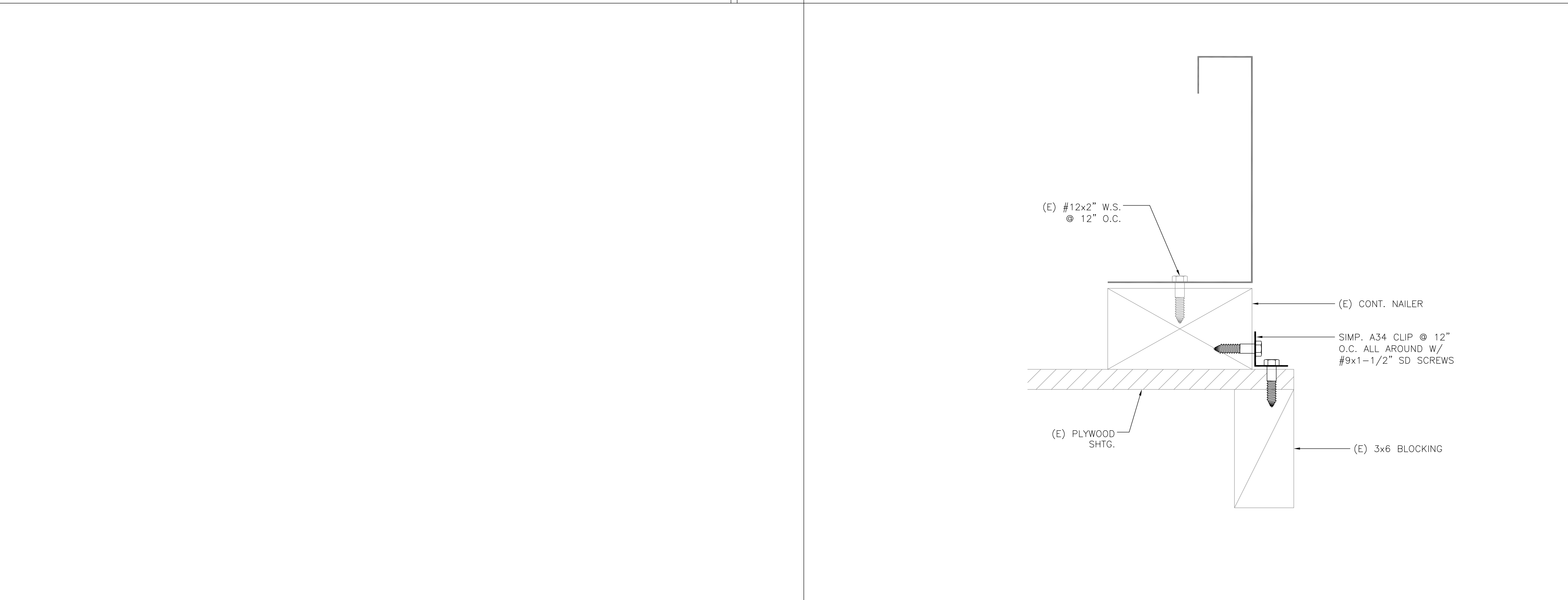
**AIR CONDITIONER UNIT AND ROOF ISO CURB INSTALLATION DETAIL (DOWN DISCHARGE) (AC-M1, AC-M2)** 2 NOT TO SCALE



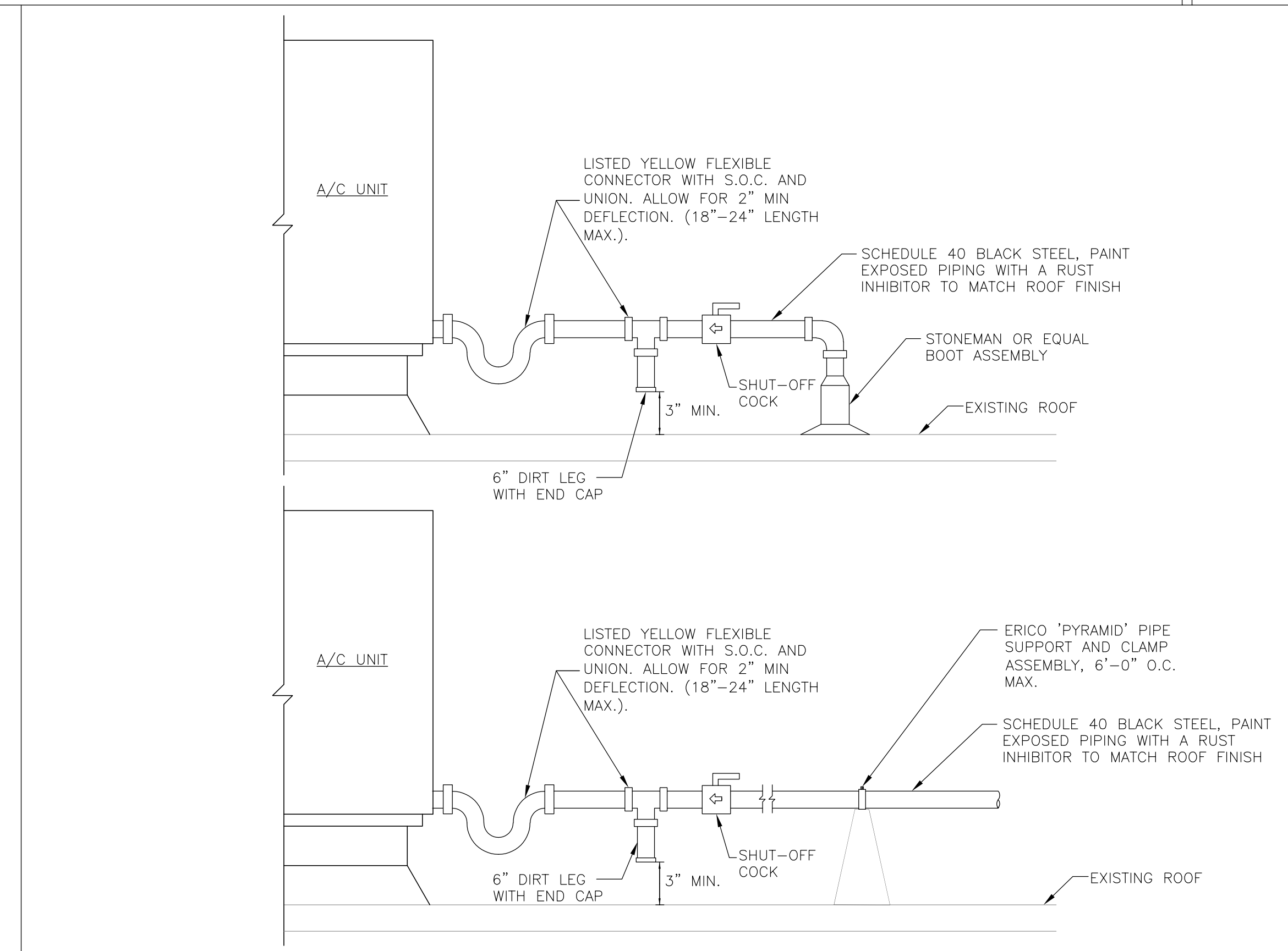
**AIR CONDITIONER UNIT AND ROOF CURB INSTALLATION DETAIL (DOWN DISCHARGE) (AC-M3)** 6 NOT TO SCALE



**REFRIGERANT PIPING THRU ROOF DETAIL** 4 NOT TO SCALE



**HEAT PUMP UNIT INSTALLATION DETAIL** 8 NOT TO SCALE



**GAS CONNECTION DETAIL** 9 NOT TO SCALE



























**A. GENERAL INFORMATION**

01 Project Location (city)	Victorville	04 Total Conditioned Floor Area	5760
02 Climate Zone	34	05 Total Unconditioned Floor Area	590
03 Occupancy Types Within Project:		06 # of Stories (Habitable Above Grade)	1
* School or Classroom			

**B. PROJECT SCOPE**

This table includes mechanical systems or components that are within the scope of the permit application and are demonstrating compliance using the prescriptive path outlined in 140.4, 170.2(b) or 141.0(b)(2) and 180.2(b)(2) for alterations.

Wet System Components		Dry System Components	
<input checked="" type="checkbox"/> Heating Air System	<input type="checkbox"/> Water Economizer	<input type="checkbox"/> Air Economizer	
<input checked="" type="checkbox"/> Cooling Air System	<input type="checkbox"/> Pumps	<input type="checkbox"/> Electric Resistance Heat	
<input type="checkbox"/> Mechanical Controls (existing to remain, altered or new)	<input type="checkbox"/> System Piping	<input type="checkbox"/> Fan Systems	
<input type="checkbox"/>	<input type="checkbox"/> Cooling Towers	<input type="checkbox"/> Ductwork (existing to remain, altered or new)	
<input type="checkbox"/>	<input type="checkbox"/> Chillers	<input type="checkbox"/> Ventilation	
<input type="checkbox"/>	<input type="checkbox"/> Boilers	<input type="checkbox"/> Zonal Systems/ Terminal Boxes	

**C. COMPLIANCE RESULTS**

System Name	Quantity	System Serving	System Status	Space Type	Utilizing Recovered Heat
AC-C5	1	Single zone	Alteration		<input type="checkbox"/>
AC-C6	1	Single zone	Alteration		<input type="checkbox"/>

**Dry System Equipment Sizing (includes air conditioners, condensers, heat pumps, VRF, furnaces and unit heaters and DOAS systems)**

01	02	03	04	05	06	07	08	09	10	11	
05	01	02	03	04	05	06	07	08	09	10	11

**H. FAN SYSTEMS & AIR ECONOMIZERS**  
This section does not apply to this project.

**I. SYSTEM CONTROLS**  
This table is used to demonstrate compliance with mandatory controls in 110.2 and 120.2 and prescriptive controls in 140.4(f) and (g), 170.2(c)(4) 170.2(c)(4) or requirements in 141.0(b)(2) 180.2(b)(2) for alteration space conditioning systems.

01	02	03	04	05	06	07	08	09
System Name	System Zoning	Conditioned Floor Area Being Served (ft <sup>2</sup> )	Thermostats (110.2(b) & (c), 120.2(a) & 140.4(b)(2) or 141.0(b)(2))	Shut-Off Controls (120.2(a) & 140.4(b)(2))	Isolation Zone Controls (120.2(a) & 140.4(b)(2))	Demand Response (110.2.2 (20.2(b)) & 160.3(a)(2))	Supply Air Temp. Reset (140.4(f) & 170.2(c)(4))	Window Interlocks per 140.4(f) & 170.2(c)(4)
T-C1,2,3,4,5,6	Single zone	<= 25,000 ft <sup>2</sup>	EMCS	EMCS	NA: Single Zone	EMCS	NA: Single Zone	NA: No operable windows

**FOOTNOTES:** Gravity gas wall heaters, gravity floor heaters, gravity room heaters, non-central electric heaters, fireplaces or decorative gas appliances, wood stoves are not required to have setback thermostats.

**J. VENTILATION AND INDOOR AIR QUALITY**  
This section does not apply to this project.

**K. TERMINAL BOX CONTROLS**  
This section does not apply to this project.

**L. DISTRIBUTION (DUCTWORK AND PIPING)**  
This section does not apply to this project.

**A. GENERAL INFORMATION**

01 Project Location (city)	Victorville	04 Total Conditioned Floor Area	5760
02 Climate Zone	34	05 Total Unconditioned Floor Area	590
03 Occupancy Types Within Project:		06 # of Stories (Habitable Above Grade)	1
* School or Classroom			

**B. PROJECT SCOPE**

This table includes mechanical systems or components that are within the scope of the permit application and are demonstrating compliance using the prescriptive path outlined in 140.4, 170.2(b) or 141.0(b)(2) and 180.2(b)(2) for alterations.

Wet System Components		Dry System Components	
<input checked="" type="checkbox"/> Heating Air System	<input type="checkbox"/> Water Economizer	<input type="checkbox"/> Air Economizer	
<input checked="" type="checkbox"/> Cooling Air System	<input type="checkbox"/> Pumps	<input type="checkbox"/> Electric Resistance Heat	
<input type="checkbox"/> Mechanical Controls (existing to remain, altered or new)	<input type="checkbox"/> System Piping	<input type="checkbox"/> Fan Systems	
<input type="checkbox"/>	<input type="checkbox"/> Cooling Towers	<input type="checkbox"/> Ductwork (existing to remain, altered or new)	
<input type="checkbox"/>	<input type="checkbox"/> Chillers	<input type="checkbox"/> Ventilation	
<input type="checkbox"/>	<input type="checkbox"/> Boilers	<input type="checkbox"/> Zonal Systems/ Terminal Boxes	

**C. COMPLIANCE RESULTS**

System Name	Quantity	System Serving	System Status	Space Type	Utilizing Recovered Heat
AC-D1	1	Single zone	Alteration		<input type="checkbox"/>
AC-D2	1	Single zone	Alteration		<input type="checkbox"/>
AC-D3	1	Single zone	Alteration		<input type="checkbox"/>
AC-D4	1	Single zone	Alteration		<input type="checkbox"/>

**H. FAN SYSTEMS & AIR ECONOMIZERS**  
This section does not apply to this project.

**I. SYSTEM CONTROLS**  
This table is used to demonstrate compliance with mandatory controls in 110.2 and 120.2 and prescriptive controls in 140.4(f) and (g), 170.2(c)(4) 170.2(c)(4) or requirements in 141.0(b)(2) 180.2(b)(2) for alteration space conditioning systems.

01	02	03	04	05	06	07	08	09
System Name	System Zoning	Conditioned Floor Area Being Served (ft <sup>2</sup> )	Thermostats (110.2(b) & (c), 120.2(a) & 140.4(b)(2) or 141.0(b)(2))	Shut-Off Controls (120.2(a) & 140.4(b)(2))	Isolation Zone Controls (120.2(a) & 140.4(b)(2))	Demand Response (110.2.2 (20.2(b)) & 160.3(a)(2))	Supply Air Temp. Reset (140.4(f) & 170.2(c)(4))	Window Interlocks per 140.4(f) & 170.2(c)(4)
T-D1,2,3,4,5,6	Single zone	<= 25,000 ft <sup>2</sup>	EMCS	EMCS	NA: Single Zone	EMCS	NA: Single Zone	NA: No operable windows

**FOOTNOTES:** Gravity gas wall heaters, gravity floor heaters, gravity room heaters, non-central electric heaters, fireplaces or decorative gas appliances, wood stoves are not required to have setback thermostats.

**J. VENTILATION AND INDOOR AIR QUALITY**  
This section does not apply to this project.

**K. TERMINAL BOX CONTROLS**  
This section does not apply to this project.

**L. DISTRIBUTION (DUCTWORK AND PIPING)**  
This section does not apply to this project.

**C. COMPLIANCE RESULTS**

System Name	Quantity	System Serving	System Status	Space Type	Utilizing Recovered Heat
AC-C5	1	Single zone	Alteration		<input type="checkbox"/>
AC-C6	1	Single zone	Alteration		<input type="checkbox"/>

**Dry System Equipment Sizing (includes air conditioners, condensers, heat pumps, VRF, furnaces and unit heaters and DOAS systems)**

01	02	03	04	05	06	07	08	09	10	11	
05	01	02	03	04	05	06	07	08	09	10	11

**D. EXCEPTIONAL CONDITIONS**  
This table is auto-filled with uneditable comments because of selections made or data entered in tables throughout the form.

**E. ADDITIONAL REMARKS**  
This table includes remarks made by the permit applicant to the Authority Having Jurisdiction.

**F. HVAC SYSTEM SUMMARY (DRY & WET SYSTEMS)**

Space Conditioning System Information

01	02	03	04	05	06
System Name	Quantity	System Serving	System Status	Space Type	Utilizing Recovered Heat
AC-C1	1	Single zone	Alteration		<input type="checkbox"/>
AC-C2	1	Single zone	Alteration		<input type="checkbox"/>
AC-C3	1	Single zone	Alteration		<input type="checkbox"/>
AC-C4	1	Single zone	Alteration		<input type="checkbox"/>

**M. COOLING TOWERS**  
This section does not apply to this project.

**N. DECLARATION OF REQUIRED CERTIFICATES OF INSTALLATION**  
Selections have been made based on information provided in previous tables of this document. If any selection needs to be changed, please explain why in Table E Additional Remarks. These documents must be provided to the building inspector during construction and can be found online at [https://www.energy.ca.gov/title24/2019standards/2019\\_compliance\\_documents/Nonresidential\\_Documents/NR/C](https://www.energy.ca.gov/title24/2019standards/2019_compliance_documents/Nonresidential_Documents/NR/C)

**O. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE**  
Selections have been made based on information provided in previous tables of this document. If any selection needs to be changed, please explain why in Table E Additional Remarks. These documents must be provided to the building inspector during construction and can be found online at [https://www.energy.ca.gov/title24/2019standards/2019\\_compliance\\_documents/Nonresidential\\_Documents/NR/C](https://www.energy.ca.gov/title24/2019standards/2019_compliance_documents/Nonresidential_Documents/NR/C)

**P. DECLARATION OF REQUIRED CERTIFICATES OF VERIFICATION**  
There are no NRCV forms required for this project.

**C. COMPLIANCE RESULTS**

System Name	Quantity	System Serving	System Status	Space Type	Utilizing Recovered Heat
AC-D5	1	Single zone	Alteration		<input type="checkbox"/>
AC-D6	1	Single zone	Alteration		<input type="checkbox"/>

**D. EXCEPTIONAL CONDITIONS**  
This table is auto-filled with uneditable comments because of selections made or data entered in tables throughout the form.

**E. ADDITIONAL REMARKS**  
This table includes remarks made by the permit applicant to the Authority Having Jurisdiction.

**F. HVAC SYSTEM SUMMARY (DRY & WET SYSTEMS)**

Space Conditioning System Information

01	02	03	04	05	06
System Name	Quantity	System Serving	System Status	Space Type	Utilizing Recovered Heat
AC-D1	1	Single zone	Alteration		<input type="checkbox"/>
AC-D2	1	Single zone	Alteration		<input type="checkbox"/>
AC-D3	1	Single zone	Alteration		<input type="checkbox"/>
AC-D4	1	Single zone	Alteration		<input type="checkbox"/>

**M. COOLING TOWERS**  
This section does not apply to this project.

**N. DECLARATION OF REQUIRED CERTIFICATES OF INSTALLATION**  
Selections have been made based on information provided in previous tables of this document. If any selection needs to be changed, please explain why in Table E Additional Remarks. These documents must be provided to the building inspector during construction and can be found online at [https://www.energy.ca.gov/title24/2019standards/2019\\_compliance\\_documents/Nonresidential\\_Documents/NR/C](https://www.energy.ca.gov/title24/2019standards/2019_compliance_documents/Nonresidential_Documents/NR/C)

**O. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE**  
Selections have been made based on information provided in previous tables of this document. If any selection needs to be changed, please explain why in Table E Additional Remarks. These documents must be provided to the building inspector during construction and can be found online at [https://www.energy.ca.gov/title24/2019standards/2019\\_compliance\\_documents/Nonresidential\\_Documents/NR/C](https://www.energy.ca.gov/title24/2019standards/2019_compliance_documents/Nonresidential_Documents/NR/C)

**P. DECLARATION OF REQUIRED CERTIFICATES OF VERIFICATION**  
There are no NRCV forms required for this project.

**F. HVAC SYSTEM SUMMARY (DRY & WET SYSTEMS)**

Space Conditioning System Information

01	02	03	04	05	06
System Name	Quantity	System Serving	System Status	Space Type	Utilizing Recovered Heat
AC-C5	1	Single zone	Alteration		<input type="checkbox"/>
AC-C6	1	Single zone	Alteration		<input type="checkbox"/>

**Dry System Equipment Sizing (includes air conditioners, condensers, heat pumps, VRF, furnaces and unit heaters and DOAS systems)**

01	02	03	04	05	06	07	08	09	10	11	
05	01	02	03	04	05	06	07	08	09	10	11

**FOOTNOTES:** Equipment shall be the smallest size, within the available options of the desired equipment line, necessary to meet the design heating and cooling loads of the building per 140.4(f) and 170.2(c)(1). Healthcare facilities are exempted.

**Q. MANDATORY MEASURES DOCUMENTATION LOCATION**  
This table is used to indicate where mandatory measures are documented in the plan set or construction documentation.

01	02
Compliance with Mandatory Measures documented through MCH	No
Mandatory Measures Note Block	Plan sheet or construction document location
03	04
Mandatory Measure	Plan sheet or construction document location
Heating Equipment Efficiency per 110.1	MD-1-4
Cooling Equipment Efficiency per 110.1	MD-1-4
Furnace Standby Loss Control per 110.2(b)	NA
Heat Pump with Supplemental electric Resistance Heater Controls per 110.2(b)	NA

**R. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE**  
Selections have been made based on information provided in previous tables of this document. If any selection needs to be changed, please explain why in Table E Additional Remarks. These documents must be provided to the building inspector during construction and can be found online at [https://www.energy.ca.gov/title24/2019standards/2019\\_compliance\\_documents/Nonresidential\\_Documents/NR/C](https://www.energy.ca.gov/title24/2019standards/2019_compliance_documents/Nonresidential_Documents/NR/C)

**P. DECLARATION OF REQUIRED CERTIFICATES OF VERIFICATION**  
There are no NRCV forms required for this project.

**F. HVAC SYSTEM SUMMARY (DRY & WET SYSTEMS)**

Space Conditioning System Information

01	02	03	04	05	06
System Name	Quantity	System Serving	System Status	Space Type	Utilizing Recovered Heat
AC-D5	1	Single zone	Alteration		<input type="checkbox"/>
AC-D6	1	Single zone	Alteration		<input type="checkbox"/>

**Dry System Equipment Sizing (includes air conditioners, condensers, heat pumps, VRF, furnaces and unit heaters and DOAS systems)**

01	02	03	04	05	06	07	08	09	10	11	
05	01	02	03	04	05	06	07	08	09	10	11

**FOOTNOTES:** Equipment shall be the smallest size, within the available options of the desired equipment line, necessary to meet the design heating and cooling loads of the building per 140.4(f) and 170.2(c)(1). Healthcare facilities are exempted.

**Q. MANDATORY MEASURES DOCUMENTATION LOCATION**  
This table is used to indicate where mandatory measures are documented in the plan set or construction documentation.

01	02
Compliance with Mandatory Measures documented through MCH	No
Mandatory Measures Note Block	Plan sheet or construction document location
03	04
Mandatory Measure	Plan sheet or construction document location
Heating Equipment Efficiency per 110.1	MD-1-4
Cooling Equipment Efficiency per 110.1	MD-1-4
Furnace Standby Loss Control per 110.2(b)	NA
Heat Pump with Supplemental electric Resistance Heater Controls per 110.2(b)	NA

**FOOTNOTES:** Equipment shall be the smallest size, within the available options of the desired equipment line, necessary to meet the design heating and cooling loads of the building per 140.4(f) and 170.2(c)(1). Healthcare facilities are exempted.

**P. DECLARATION OF REQUIRED CERTIFICATES OF VERIFICATION**  
There are no NRCV forms required for this project.

**F. HVAC SYSTEM SUMMARY (DRY & WET SYSTEMS)**

Dry System Equipment Sizing (includes air conditioners, condensers, heat pumps, VRF, furnaces and unit heaters and DOAS systems)

01	02	03	04	05	06	07	08	09	10	11	
05	01	02	03	04	05	06	07	08	09	10	11

**Dry System Equipment Efficiency (other than Package Terminal Air Conditioners (PTAC) and Package Terminal Heat Pumps (PTHP), DX-DOAS and Dual Fuel Heat Pumps)**

01	02	03	04	05	06	07	08	09		
Name or Item Tag	Size Category (Btu/h)	Rating Condition ('F)	Efficiency Unit	Design Efficiency	Efficiency Unit	Minimum Efficiency Required per Tables 110.2 / Title 20	Design Efficiency	Efficiency Unit	Minimum Efficiency Required per Tables 110.2 / Title 20	Design Efficiency
AC-C1	<65kBtu/h cooling/ <225kBtu/h heating		AFUE	0.8	0.8	EER	11	EER	11	11
AC-C2	<65kBtu/h cooling/ <225kBtu/h heating		AFUE	0.8	0.8	EER	14	EER	14	14
AC-C3	<65kBtu/h cooling/ <225kBtu/h heating		AFUE	0.8	0.8	EER	11	EER	11	11
AC-C4	<65kBtu/h cooling/ <225kBtu/h heating		AFUE	0.8	0.8	EER	14	EER	14	14
AC-C5	<65kBtu/h cooling/ <225kBtu/h heating		AFUE	0.8	0.8	EER	11	EER		



STATE OF CALIFORNIA  
**Mechanical Systems**  
 CERTIFICATE OF COMPLIANCE NRC/MCH-4  
 This document is used to demonstrate compliance for mechanical systems that are within the scope of the permit application and are demonstrating compliance using the prescriptive path outlined in 140.4, or 141.0(b) for alterations.  
 Project Name: Parkview ES-County Relo Bldg. Report Page: (Page 1 of 7)  
 Project Address: 2023-05-04T15:57:46-04:00 Date Prepared: 2023-05-04T15:57:46-04:00

A. GENERAL INFORMATION			
01 Project Location (City)	Victorville	04 Total Conditioned Floor Area	2850
02 Climate Zone	14	05 Total Unconditioned Floor Area	0
03 Occupancy Types Within Project:	06 # of Stories (Habitable Above Grade)		1
• School or Classroom			

**B. PROJECT SCOPE**  
 This table includes mechanical systems or components that are within the scope of the permit application and are demonstrating compliance using the prescriptive path outlined in 140.4, 170.2(b) or 141.0(b)(2) for alterations.

01		02		03	
Air System(s)		Wet System Components		Dry System Components	
<input checked="" type="checkbox"/>	Heating Air System	<input type="checkbox"/>	Water Economizer	<input type="checkbox"/>	Air Economizer
<input checked="" type="checkbox"/>	Cooling Air System	<input type="checkbox"/>	Pumps	<input type="checkbox"/>	Electric Resistance Heat
<input checked="" type="checkbox"/>	Mechanical Controls	<input type="checkbox"/>	System Piping	<input type="checkbox"/>	Fan Systems
<input checked="" type="checkbox"/>	Mechanical Controls (existing to remain, altered or new)	<input type="checkbox"/>	Cooling Towers	<input type="checkbox"/>	Ductwork (existing to remain, altered or new)
<input type="checkbox"/>	Chillers	<input type="checkbox"/>	Boilers	<input type="checkbox"/>	Ventilation
<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>	Zonal Systems/Terminal Boxes

Registration Number: CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance  
 Generated Date/Time: Report Version: 2022.0.000  
 Documentation Software: Energy Code Ace  
 Compliance ID: 105768-0523-0003  
 Report Generated: 2023-05-04 12:57:50

STATE OF CALIFORNIA  
**Mechanical Systems**  
 CERTIFICATE OF COMPLIANCE NRC/MCH-4  
 This document is used to demonstrate compliance for mechanical systems that are within the scope of the permit application and are demonstrating compliance using the prescriptive path outlined in 140.4, or 141.0(b) for alterations.  
 Project Name: Parkview ES-County Relo Bldg. Report Page: (Page 5 of 7)  
 Project Address: 2023-05-04T15:57:46-04:00 Date Prepared: 2023-05-04T15:57:46-04:00

**L. DISTRIBUTION (DUCTWORK and PIPING)**  
 This section does not apply to this project.

**M. COOLING TOWERS**  
 This section does not apply to this project.

**N. DECLARATION OF REQUIRED CERTIFICATES OF INSTALLATION**  
 Selections have been made based on information provided in previous tables of this document. If any selection needs to be changed, please explain why in Table E Additional Remarks. These documents must be provided to the building inspector during construction and can be found online at [https://www.energy.ca.gov/title24/2019standards/2019\\_compliance\\_documents/Nonresidential\\_Documents/NRCA/](https://www.energy.ca.gov/title24/2019standards/2019_compliance_documents/Nonresidential_Documents/NRCA/)  
 Form/Title: NRCA-MCH-03-E - Must be submitted for all buildings

**D. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE**  
 Selections have been made based on information provided in previous tables of this document. If any selection needs to be changed, please explain why in Table E Additional Remarks. These documents must be provided to the building inspector during construction and can be found online at [https://www.energy.ca.gov/title24/2019standards/2019\\_compliance\\_documents/Nonresidential\\_Documents/NRCA/](https://www.energy.ca.gov/title24/2019standards/2019_compliance_documents/Nonresidential_Documents/NRCA/)  
 Form/Title: NRCA-MCH-18-A Energy Management Control Systems

**P. DECLARATION OF REQUIRED CERTIFICATES OF VERIFICATION**  
 There are no NRCV forms required for this project.

Registration Number: CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance  
 Generated Date/Time: Report Version: 2022.0.000  
 Documentation Software: Energy Code Ace  
 Compliance ID: 105768-0523-0003  
 Report Generated: 2023-05-04 12:57:50

STATE OF CALIFORNIA  
**Mechanical Systems**  
 CERTIFICATE OF COMPLIANCE NRC/MCH-4  
 This document is used to demonstrate compliance for mechanical systems that are within the scope of the permit application and are demonstrating compliance using the prescriptive path outlined in 140.4, or 141.0(b) for alterations.  
 Project Name: Parkview ES-County Relo Bldg. Report Page: (Page 1 of 7)  
 Project Address: 2023-05-04T15:57:46-04:00 Date Prepared: 2023-05-04T15:57:46-04:00

A. GENERAL INFORMATION			
01 Project Location (City)	Victorville	04 Total Conditioned Floor Area	2850
02 Climate Zone	14	05 Total Unconditioned Floor Area	0
03 Occupancy Types Within Project:	06 # of Stories (Habitable Above Grade)		1
• School or Classroom			

**B. PROJECT SCOPE**  
 This table includes mechanical systems or components that are within the scope of the permit application and are demonstrating compliance using the prescriptive path outlined in 140.4, 170.2(b) or 141.0(b)(2) for alterations.

01		02		03	
Air System(s)		Wet System Components		Dry System Components	
<input checked="" type="checkbox"/>	Heating Air System	<input type="checkbox"/>	Water Economizer	<input type="checkbox"/>	Air Economizer
<input checked="" type="checkbox"/>	Cooling Air System	<input type="checkbox"/>	Pumps	<input type="checkbox"/>	Electric Resistance Heat
<input checked="" type="checkbox"/>	Mechanical Controls	<input type="checkbox"/>	System Piping	<input type="checkbox"/>	Fan Systems
<input checked="" type="checkbox"/>	Mechanical Controls (existing to remain, altered or new)	<input type="checkbox"/>	Cooling Towers	<input type="checkbox"/>	Ductwork (existing to remain, altered or new)
<input type="checkbox"/>	Chillers	<input type="checkbox"/>	Boilers	<input type="checkbox"/>	Ventilation
<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>	Zonal Systems/Terminal Boxes

Registration Number: CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance  
 Generated Date/Time: Report Version: 2022.0.000  
 Documentation Software: Energy Code Ace  
 Compliance ID: 105768-0523-0002  
 Report Generated: 2023-05-04 13:07:01

STATE OF CALIFORNIA  
**Mechanical Systems**  
 CERTIFICATE OF COMPLIANCE NRC/MCH-4  
 This document is used to demonstrate compliance for mechanical systems that are within the scope of the permit application and are demonstrating compliance using the prescriptive path outlined in 140.4, or 141.0(b) for alterations.  
 Project Name: Parkview ES-County Relo Bldg. Report Page: (Page 5 of 7)  
 Project Address: 2023-05-04T15:56:57-04:00 Date Prepared: 2023-05-04T15:56:57-04:00

**L. DISTRIBUTION (DUCTWORK and PIPING)**  
 This section does not apply to this project.

**M. COOLING TOWERS**  
 This section does not apply to this project.

**N. DECLARATION OF REQUIRED CERTIFICATES OF INSTALLATION**  
 Selections have been made based on information provided in previous tables of this document. If any selection needs to be changed, please explain why in Table E Additional Remarks. These documents must be provided to the building inspector during construction and can be found online at [https://www.energy.ca.gov/title24/2019standards/2019\\_compliance\\_documents/Nonresidential\\_Documents/NRCA/](https://www.energy.ca.gov/title24/2019standards/2019_compliance_documents/Nonresidential_Documents/NRCA/)  
 Form/Title: NRCA-MCH-03-E - Must be submitted for all buildings

**D. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE**  
 Selections have been made based on information provided in previous tables of this document. If any selection needs to be changed, please explain why in Table E Additional Remarks. These documents must be provided to the building inspector during construction and can be found online at [https://www.energy.ca.gov/title24/2019standards/2019\\_compliance\\_documents/Nonresidential\\_Documents/NRCA/](https://www.energy.ca.gov/title24/2019standards/2019_compliance_documents/Nonresidential_Documents/NRCA/)  
 Form/Title: NRCA-MCH-18-A Energy Management Control Systems

**P. DECLARATION OF REQUIRED CERTIFICATES OF VERIFICATION**  
 There are no NRCV forms required for this project.

Registration Number: CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance  
 Generated Date/Time: Report Version: 2022.0.000  
 Documentation Software: Energy Code Ace  
 Compliance ID: 105768-0523-0002  
 Report Generated: 2023-05-04 13:07:01

STATE OF CALIFORNIA  
**Mechanical Systems**  
 CERTIFICATE OF COMPLIANCE NRC/MCH-4  
 This document is used to demonstrate compliance for mechanical systems that are within the scope of the permit application and are demonstrating compliance using the prescriptive path outlined in 140.4, or 141.0(b) for alterations.  
 Project Name: Parkview ES-County Relo Bldg. Report Page: (Page 2 of 7)  
 Project Address: 2023-05-04T15:57:46-04:00 Date Prepared: 2023-05-04T15:57:46-04:00

**C. COMPLIANCE RESULTS**  
 Table C will indicate if the project data input into the compliance document is compliant with mechanical requirements. This table is not editable by the user. If this table says "DOES NOT COMPLY" or "COMPLIES with Exceptional Conditions" refer to Table D, or the table indicated as not compliant for guidance.

01	02	03	04	05	06	07	08	09
System Summary	AND	Pumps	AND	Fans/Economizers	AND	System Controls	AND	Ventilation
110.1, 110.2, 140.4, 170.2(c)	AND	140.4(b), 170.2(c)(4)	AND	140.4(c), 170.2(c)	AND	110.2, 120.2, 140.4(f), 170.2(c)	AND	120.1, 160.2
(See Table F)	(See Table G)	(See Table H)	(See Table I)	(See Table J)	(See Table K)	(See Table L)	(See Table M)	
Yes	AND	AND	AND	Yes	AND	AND	AND	COMPLIES

**D. EXCEPTIONAL CONDITIONS**  
 This table is auto-filled with uneditable comments because of selections made or data entered in tables throughout the form.

**E. ADDITIONAL REMARKS**  
 This table includes remarks made by the permit applicant to the Authority Having Jurisdiction.

**F. HVAC SYSTEM SUMMARY (DRY & WET SYSTEMS)**  
 Space Conditioning System Information

01	02	03	04	05	06
System Name	Quantity	System Serving	System Status	Space Type	Utilizing Recovered Heat
HP-A1	1	Single zone	Alteration		<input type="checkbox"/>
HP-A2	1	Single zone	Alteration		<input type="checkbox"/>

Registration Number: CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance  
 Generated Date/Time: Report Version: 2022.0.000  
 Documentation Software: Energy Code Ace  
 Compliance ID: 105768-0523-0003  
 Report Generated: 2023-05-04 12:57:50

STATE OF CALIFORNIA  
**Mechanical Systems**  
 CERTIFICATE OF COMPLIANCE NRC/MCH-4  
 This document is used to demonstrate compliance for mechanical systems that are within the scope of the permit application and are demonstrating compliance using the prescriptive path outlined in 140.4, or 141.0(b) for alterations.  
 Project Name: Parkview ES-County Relo Bldg. Report Page: (Page 6 of 7)  
 Project Address: 2023-05-04T15:57:46-04:00 Date Prepared: 2023-05-04T15:57:46-04:00

**Q. MANDATORY MEASURES DOCUMENTATION LOCATION**  
 This table is used to indicate where mandatory measures are documented in the plan set or construction documentation.

01		02	
Compliance with Mandatory Measures documented through MCH		Plan sheet or construction document location	
Mandatory Measures Note Block	No		
03		04	
Mandatory Measure		Plan sheet or construction document location	
Heating Equipment Efficiency per 110.1	MD-1.1		
Cooling Equipment Efficiency per 110.1	MD-1.1		
Furnace Standby Loss Control per 110.2(b)	NA		
Heat Pump with Supplemental electric Resistance Heater Controls per 110.2(b)	NA		

Registration Number: CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance  
 Generated Date/Time: Report Version: 2022.0.000  
 Documentation Software: Energy Code Ace  
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STATE OF CALIFORNIA  
**Mechanical Systems**  
 CERTIFICATE OF COMPLIANCE NRC/MCH-4  
 This document is used to demonstrate compliance for mechanical systems that are within the scope of the permit application and are demonstrating compliance using the prescriptive path outlined in 140.4, or 141.0(b) for alterations.  
 Project Name: Parkview ES-County Relo Bldg. Report Page: (Page 7 of 7)  
 Project Address: 2023-05-04T15:56:57-04:00 Date Prepared: 2023-05-04T15:56:57-04:00

**C. COMPLIANCE RESULTS**  
 Table C will indicate if the project data input into the compliance document is compliant with mechanical requirements. This table is not editable by the user. If this table says "DOES NOT COMPLY" or "COMPLIES with Exceptional Conditions" refer to Table D, or the table indicated as not compliant for guidance.

01	02	03	04	05	06	07	08	09
System Summary	AND	Pumps	AND	Fans/Economizers	AND	System Controls	AND	Ventilation
110.1, 110.2, 140.4, 170.2(c)	AND	140.4(b), 170.2(c)(4)	AND	140.4(c), 170.2(c)	AND	110.2, 120.2, 140.4(f), 170.2(c)	AND	120.1, 160.2
(See Table F)	(See Table G)	(See Table H)	(See Table I)	(See Table J)	(See Table K)	(See Table L)	(See Table M)	
Yes	AND	AND	AND	Yes	AND	AND	AND	COMPLIES

**D. EXCEPTIONAL CONDITIONS**  
 This table is auto-filled with uneditable comments because of selections made or data entered in tables throughout the form.

**E. ADDITIONAL REMARKS**  
 This table includes remarks made by the permit applicant to the Authority Having Jurisdiction.

**F. HVAC SYSTEM SUMMARY (DRY & WET SYSTEMS)**  
 Space Conditioning System Information

01	02	03	04	05	06
System Name	Quantity	System Serving	System Status	Space Type	Utilizing Recovered Heat
HP-A3, A4	2	Single zone	Alteration		<input type="checkbox"/>
HP-A5, A6	2	Single zone	Alteration		<input type="checkbox"/>

**D. EXCEPTIONAL CONDITIONS**  
 This table is auto-filled with uneditable comments because of selections made or data entered in tables throughout the form.

**E. ADDITIONAL REMARKS**  
 This table includes remarks made by the permit applicant to the Authority Having Jurisdiction.

**F. HVAC SYSTEM SUMMARY (DRY & WET SYSTEMS)**  
 Space Conditioning System Information

01	02	03	04	05	06
System Name	Quantity	System Serving	System Status	Space Type	Utilizing Recovered Heat
HP-A3, A4	2	Single zone	Alteration		<input type="checkbox"/>
HP-A5, A6	2	Single zone	Alteration		<input type="checkbox"/>

Registration Number: CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance  
 Generated Date/Time: Report Version: 2022.0.000  
 Documentation Software: Energy Code Ace  
 Compliance ID: 105768-0523-0002  
 Report Generated: 2023-05-04 13:07:01

STATE OF CALIFORNIA  
**Mechanical Systems**  
 CERTIFICATE OF COMPLIANCE NRC/MCH-4  
 This document is used to demonstrate compliance for mechanical systems that are within the scope of the permit application and are demonstrating compliance using the prescriptive path outlined in 140.4, or 141.0(b) for alterations.  
 Project Name: Parkview ES-County Relo Bldg. Report Page: (Page 6 of 7)  
 Project Address: 2023-05-04T15:56:57-04:00 Date Prepared: 2023-05-04T15:56:57-04:00

**Q. MANDATORY MEASURES DOCUMENTATION LOCATION**  
 This table is used to indicate where mandatory measures are documented in the plan set or construction documentation.

01		02	
Compliance with Mandatory Measures documented through MCH		Plan sheet or construction document location	
Mandatory Measures Note Block	No		
03		04	
Mandatory Measure		Plan sheet or construction document location	
Heating Equipment Efficiency per 110.1	MD-1.1		
Cooling Equipment Efficiency per 110.1	MD-1.1		
Furnace Standby Loss Control per 110.2(b)	NA		
Heat Pump with Supplemental electric Resistance Heater Controls per 110.2(b)	NA		

Registration Number: CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance  
 Generated Date/Time: Report Version: 2022.0.000  
 Documentation Software: Energy Code Ace  
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STATE OF CALIFORNIA  
**Mechanical Systems**  
 CERTIFICATE OF COMPLIANCE NRC/MCH-4  
 This document is used to demonstrate compliance for mechanical systems that are within the scope of the permit application and are demonstrating compliance using the prescriptive path outlined in 140.4, or 141.0(b) for alterations.  
 Project Name: Parkview ES-County Relo Bldg. Report Page: (Page 3 of 7)  
 Project Address: 2023-05-04T15:57:46-04:00 Date Prepared: 2023-05-04T15:57:46-04:00

**F. HVAC SYSTEM SUMMARY (DRY & WET SYSTEMS)**  
 Dry System Equipment Sizing (Includes air conditioners, condensers, heat pumps, VRF, furnaces and unit heaters and DOAS systems)

01	02	03	04	05	06	07	08	09	10	11		
Name or Item Tag	Equipment Category per Tables 110.2, 140.4(a) and 170.2(c)(3a)	Equipment Type per Tables 110.2 and Title 20	Smallest Size Available <sup>1</sup> (kBtu/h) and 170.2(c)(1)	Heating Output <sup>2,3</sup> (kBtu/h)	Cooling Output <sup>2,3</sup> (kBtu/h)	Per Design (kBtu/h)	Rated (kBtu/h)	Supp. Heating Output (kBtu/h)	Sensible Per Design (kBtu/h)	Rated (kBtu/h)	Total Heating Load (kBtu/h)	Total Sensible Cooling Load (kBtu/h)
HP-A1	Unitary Heat Pumps (no elec. resistance)	Air-cooled, pkg (1phase)	Yes	58.2	58.2	0	48.3	48.3	55	45		
HP-A2	Unitary Heat Pumps (no elec. resistance)	Air-cooled, pkg (1phase)	Yes	58.2	58.2	0	48.3	48.3	55	45		

<sup>1</sup>DOOTNOTES: Equipment shall be the smallest size, within the available options of the desired equipment line, necessary to meet the design heating and cooling loads of the building per 140.4(b) and 170.2(c). Healthcare facilities are exempted.  
<sup>2</sup>It is common practice to show rated output capacity on the equipment schedule. Sensible cooling output comes from specification sheet tables.  
<sup>3</sup>If equipment is heating only, leave cooling output and load blank. If equipment is cooling only, leave heating output and load blank.

**Dry System Equipment Efficiency (Other than Package Terminal Air Conditioners (PTAC) and Package Terminal Heat Pumps (PTHP), DX-DOAS and Dual Fuel Heat Pumps)**

01	02	03	04	05	06	07	08	09
Name or Item Tag	Size Category (kBtu/h)	Rating Condition (°F)	Efficiency Unit	Minimum Efficiency Required per Tables 110.2 / Title 20	Design Efficiency	Efficiency Unit	Minimum Efficiency Required per Tables 110.2 / Title 20	Design Efficiency
HP-A1	<65,000	HSPFF	8	8	SEER	14	14	
HP-A2	<65,000	HSPFF	8	8	SEER	14	14	

Registration Number: CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance  
 Generated Date/Time: Report Version: 2022.0.000  
 Documentation Software: Energy Code Ace  
 Compliance ID: 105768-0523-0003  
 Report Generated: 2023-05-04 12:57:50

STATE OF CALIFORNIA  
**Mechanical Systems**  
 CERTIFICATE OF COMPLIANCE NRC/MCH-4  
 This document is used to demonstrate compliance for mechanical systems that are within the scope of the permit application and are demonstrating compliance using the prescriptive path outlined in 140.4, or 141.0(b) for alterations.  
 Project Name: Parkview ES-County Relo Bldg. Report Page: (Page 7 of 7)  
 Project Address: 2023-05-04T15:57:46-04:00 Date Prepared: 2023-05-04T15:57:46-04:00

**DOCUMENTATION AUTHOR'S DECLARATION STATEMENT**  
 I certify that this Certificate of Compliance documentation is accurate and complete.

Documentation Author Name: MATTHEW PEZESHKI  
 Signature Date: \_\_\_\_\_  
 Company: Pezeshki Engineering Inc.  
 Address: \_\_\_\_\_  
 City/State/Zip: \_\_\_\_\_

**RESPONSIBLE PERSON'S DECLARATION STATEMENT**  
 I certify the following under penalty of perjury, under the laws of the State of California:  
 1. The information provided on this Certificate of Compliance is true and correct.  
 2. I am eligible under Division 4 of the Business and Professions Code to accept responsibility for the building design or system design identified on this Certificate of Compliance (responsible designer).  
 3. The energy features and performance specifications, materials, components, and manufactured devices for the building design or system design identified on this Certificate of Compliance conform to the requirements of Title 24, Part 1 and Part 6 of the California Code of Regulations.  
 4. The building design features or system design features identified on this Certificate of Compliance are consistent with the information provided on other applicable compliance documents, worksheets, calculations, plans and specifications submitted to the enforcement agency for approval with this building permit application.  
 5. I will ensure that a completed signed copy of this Certificate of Compliance shall be made available with the building permit(s) issued for the building, and made available to the enforcement agency for all applicable inspections. I understand that a completed signed copy of this Certificate of Compliance is required to be included with the documentation the builder provides to the building owner at occupancy.

Responsible Designer Name: \_\_\_\_\_  
 Company: \_\_\_\_\_  
 Address: \_\_\_\_\_  
 City/State/Zip: \_\_\_\_\_

Registration Number: CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance  
 Generated Date/Time: Report Version: 2022.0.000  
 Documentation Software: Energy Code Ace  
 Compliance ID: 105768-0523-0003  
 Report Generated: 2023-05-04 12:57:50

STATE OF CALIFORNIA  
**Mechanical Systems**  
 CERTIFICATE OF COMPLIANCE NRC/MCH-4  
 This document is used to demonstrate compliance for mechanical systems that are within the scope of the permit application and are demonstrating compliance using the prescriptive path outlined in 140.4, or 141.0(b) for alterations.  
 Project Name: Parkview ES-County Relo Bldg. Report Page: (Page 3 of 7)  
 Project Address: 2023-05-04T15:56:57-04:00 Date Prepared: 2023-05-04T15:56:57-04:00

**F. HVAC SYSTEM SUMMARY (DRY & WET SYSTEMS)**  
 Dry System Equipment Sizing (Includes air conditioners, condensers, heat pumps, VRF, furnaces and unit heaters and DOAS systems)

01	02	03	04	05	06	07	08	09	10	11
Name or Item Tag	Equipment Category per Tables 110.2, 140.4(a) and 170.2(c)(3a)	Equipment Type per Tables 110.2 and Title 20	Smallest Size Available <sup>1</sup> (kBtu/h) and 170.2(c)(1)	Heating Output <sup>2,3</sup> (kBtu/h)	Cooling Output <sup>2,</sup>					







A. GENERAL INFORMATION			
01 Project Location (City)	Victorville	04 Total Conditioned Floor Area	7680
02 Climate Zone	14	05 Total Unconditioned Floor Area	0
03 Occupancy Types Within Project	06 # of Stories (Habitable Above Grade)		1

B. PROJECT SCOPE			
This table includes mechanical systems or components that are within the scope of the permit application and are demonstrating compliance using the prescriptive path outlined in 140.4, 170.2(b) or 141.0B(2) and 180.2(b)(2) for alterations.			
01		03	
Air System(s)	Wet System Components	Dry System Components	
<input checked="" type="checkbox"/> Heating Air System	<input type="checkbox"/> Water Economizer	<input type="checkbox"/> Air Economizer	
<input checked="" type="checkbox"/> Cooling Air System	<input type="checkbox"/> Pumps	<input type="checkbox"/> Electric Resistance Heat	
<input type="checkbox"/> Mechanical Controls	<input type="checkbox"/> System Flaming	<input type="checkbox"/> Fan Systems	
<input checked="" type="checkbox"/> Mechanical Controls (existing to remain, altered or new)	<input type="checkbox"/> Cooling Towers	<input type="checkbox"/> Ductwork (existing to remain, altered or new)	
<input type="checkbox"/> Chillers	<input type="checkbox"/> Boilers	<input type="checkbox"/> Ventilation	
<input type="checkbox"/> Zonal Systems/Terminal Boxes			

M. COOLING TOWERS	
This section does not apply to this project.	

N. DECLARATION OF REQUIRED CERTIFICATES OF INSTALLATION	
This section does not apply to this project.	

O. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE	
This section does not apply to this project.	

P. DECLARATION OF REQUIRED CERTIFICATES OF VERIFICATION	
There are no NRCV forms required for this project.	

A. GENERAL INFORMATION			
01 Project Location (City)	Victorville	04 Total Conditioned Floor Area	24980
02 Climate Zone	14	05 Total Unconditioned Floor Area	356
03 Occupancy Types Within Project	06 # of Stories (Habitable Above Grade)		1

B. PROJECT SCOPE			
This table includes mechanical systems or components that are within the scope of the permit application and are demonstrating compliance using the prescriptive path outlined in 140.4, 170.2(b) or 141.0B(2) and 180.2(b)(2) for alterations.			
02		03	
Air System(s)	Wet System Components	Dry System Components	
<input checked="" type="checkbox"/> Heating Air System	<input type="checkbox"/> Water Economizer	<input type="checkbox"/> Air Economizer	
<input checked="" type="checkbox"/> Cooling Air System	<input type="checkbox"/> Pumps	<input type="checkbox"/> Electric Resistance Heat	
<input type="checkbox"/> Mechanical Controls	<input type="checkbox"/> System Flaming	<input type="checkbox"/> Fan Systems	
<input checked="" type="checkbox"/> Mechanical Controls (existing to remain, altered or new)	<input type="checkbox"/> Cooling Towers	<input type="checkbox"/> Ductwork (existing to remain, altered or new)	
<input type="checkbox"/> Chillers	<input type="checkbox"/> Boilers	<input type="checkbox"/> Ventilation	
<input type="checkbox"/> Zonal Systems/Terminal Boxes			

L. DISTRIBUTION (DUCTWORK AND PIPING)								
This section does not apply to this project.								

M. COOLING TOWERS								
This section does not apply to this project.								

N. DECLARATION OF REQUIRED CERTIFICATES OF INSTALLATION								
This section does not apply to this project.								

O. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE								
This section does not apply to this project.								

P. DECLARATION OF REQUIRED CERTIFICATES OF VERIFICATION								
There are no NRCV forms required for this project.								

C. COMPLIANCE RESULTS											
Table C will indicate if the project data input into the compliance document is compliant with mechanical requirements. This table is not editable by the user. If this table says "DOES NOT COMPLY" or "COMPLIES with Exceptional Conditions" refer to Table D, or the table indicated as not compliant for guidance.											
01	02	03	04	05	06	07	08	09	01	02	03
System Summary	Pumps	Fan/Economizers	System Controls	Ventilation	Terminal Box Controls	Distribution	Cooling Towers	Compliance Results	System Summary	Pumps	Fan/Economizers
110.1, 110.2, 140.4, 170.2(c)	140.4(a), 170.2(b)(4)	140.4(a), 170.2(c)	110.2, 120.2, 140.4(a), 170.2(c)	120.1, 100.2	140.4(a), 170.2(c)(4)	120.1, 140.4(a), 160.2, 160.3	110.2(b)(2)		110.1, 110.2, 140.4, 170.2(c)	140.4(a), 170.2(b)(4)	140.4(a), 170.2(c)
(See Table F)	(See Table G)	(See Table H)	(See Table I)	(See Table J)	(See Table K)	(See Table L)	(See Table M)		(See Table F)	(See Table G)	(See Table H)
Yes	AND	AND	Yes	AND	AND	AND	AND	COMPLIES	Yes	AND	AND

D. EXCEPTIONAL CONDITIONS	
This table is auto-filled with uneditable comments because of selections made or data entered in tables throughout the form.	

E. ADDITIONAL REMARKS	
This table includes remarks made by the permit applicant to the Authority Having Jurisdiction.	

F. HVAC SYSTEM SUMMARY (DRY & WET SYSTEMS)					
Space Conditioning System Information					
01	02	03	04	05	06
System Name	Quantity	System Serving	System Status	Space Type	Utilizing Recovered Heat
T-HP-R2	8	Single zone	Alteration		<input type="checkbox"/>

Q. MANDATORY MEASURES DOCUMENTATION LOCATION			
This table is used to indicate where mandatory measures are documented in the plan set or construction documentation.			
01		02	
Compliance with Mandatory Measures documented through MCH	No	Plan sheet or construction document location	
Mandatory Measures Note Block			
03		04	
Mandatory Measure		Plan sheet or construction document location	
Heating Equipment Efficiency per 110.1		MD-1.2	
Cooling Equipment Efficiency per 110.1		MD-1.2	
Furnace Standby Loss Control per 110.2(d)		NA	
Heat Pump with Supplemental electric Resistance Heater Controls per 110.2(b)		NA	

C. COMPLIANCE RESULTS											
Table C will indicate if the project data input into the compliance document is compliant with mechanical requirements. This table is not editable by the user. If this table says "DOES NOT COMPLY" or "COMPLIES with Exceptional Conditions" refer to Table D, or the table indicated as not compliant for guidance.											
01	02	03	04	05	06	07	08	09	01	02	03
System Summary	Pumps	Fan/Economizers	System Controls	Ventilation	Terminal Box Controls	Distribution	Cooling Towers	Compliance Results	System Summary	Pumps	Fan/Economizers
110.1, 110.2, 140.4, 170.2(c)	140.4(a), 170.2(b)(4)	140.4(a), 170.2(c)	110.2, 120.2, 140.4(a), 170.2(c)	120.1, 100.2	140.4(a), 170.2(c)(4)	120.1, 140.4(a), 160.2, 160.3	110.2(b)(2)		110.1, 110.2, 140.4, 170.2(c)	140.4(a), 170.2(b)(4)	140.4(a), 170.2(c)
(See Table F)	(See Table G)	(See Table H)	(See Table I)	(See Table J)	(See Table K)	(See Table L)	(See Table M)		(See Table F)	(See Table G)	(See Table H)
Yes	AND	AND	Yes	AND	AND	AND	AND	COMPLIES	Yes	AND	AND

D. EXCEPTIONAL CONDITIONS	
This table is auto-filled with uneditable comments because of selections made or data entered in tables throughout the form.	

E. ADDITIONAL REMARKS	
This table includes remarks made by the permit applicant to the Authority Having Jurisdiction.	

F. HVAC SYSTEM SUMMARY (DRY & WET SYSTEMS)					
Space Conditioning System Information					
01	02	03	04	05	06
System Name	Quantity	System Serving	System Status	Space Type	Utilizing Recovered Heat
AC-M4	1	Single zone	Alteration		<input type="checkbox"/>
AC-M3	2	Single zone	Alteration		<input type="checkbox"/>
AC-M-1,2	2	Single zone	Alteration		<input type="checkbox"/>
AC-M5	1	Single zone	Alteration		<input type="checkbox"/>

N. DECLARATION OF REQUIRED CERTIFICATES OF INSTALLATION			
This section does not apply to this project.			

O. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE			
This section does not apply to this project.			

P. DECLARATION OF REQUIRED CERTIFICATES OF VERIFICATION			
There are no NRCV forms required for this project.			

F. HVAC SYSTEM SUMMARY (DRY & WET SYSTEMS)										
Dry System Equipment Sizing (includes air conditioners, condensers, heat pumps, VRF, furnaces and unit heaters and DOAS systems)										
01	02	03	04	05	06	07	08	09	10	11
Name or Item Tag	Equipment Category per Tables 110.2, 140.4(a) and 170.2(c)(4)	Equipment Type per Tables 110.2 and Title 20	Smallest Size Available <sup>1</sup> (140.4(a) and 170.2(c)(1))	Heating Output <sup>2,3</sup> (kBtu/h)	Rated Heating Output (kBtu/h)	Supp. Heating Output (kBtu/h)	Sensible Per Design (kBtu/h)	Rated Cooling Output <sup>2,3</sup> (kBtu/h)	Total Heating Load (kBtu/h)	Total Sensible Cooling Load (kBtu/h)
T-HP-R2	Unitary Heat Pumps	Air-cooled, single phase	Yes	39	39	0	39.79	39.79	280.8	286.6

G. PUMPS								
This section does not apply to this project.								

DOCUMENTATION AUTHOR'S DECLARATION STATEMENT	
I certify that this Certificate of Compliance documentation is accurate and complete.	
Documentation Author Name: MATTHEW PEZESHKI	Documentation Author Signature:
Signature Date:	
Company: Pezeski Engineering Inc.	
City/State/Zip:	

RESPONSIBLE PERSON'S DECLARATION STATEMENT	
I certify the following under penalty of perjury, under the laws of the State of California:	
1. The information provided on this Certificate of Compliance is true and correct.	
2. I am a duly-licensed member of the Business and Professions Code to accept responsibility for the building design or system design identified on this Certificate of Compliance (responsible designer).	
3. The energy features and performance specifications, materials, components, and manufactured devices for the building design or system design identified on this Certificate of Compliance conform to the requirements of Title 24, Part 2 and Part 6 of the California Code of Regulations.	
4. The building design features or system design features identified on this Certificate of Compliance are consistent with the information provided on other applicable compliance documents, worksheets, calculations, plans and specifications submitted to the enforcement agency for approval with this building permit application.	
5. I will ensure that a completed signed copy of this Certificate of Compliance shall be made available with the building permit(s) issued for the building, and made available to the enforcement agency for all applicable inspections. I understand that a completed signed copy of this Certificate of Compliance is required to be included with the documentation the builder provides to the building owner at occupancy.	
Responsible Designer Name: Matthew Pezeski	Responsible Designer Signature:
Company:	Date Signed:
City/State/Zip:	Phone:

F. HVAC SYSTEM SUMMARY (DRY & WET SYSTEMS)										
Dry System Equipment Sizing (includes air conditioners, condensers, heat pumps, VRF, furnaces and unit heaters and DOAS systems)										
01	02	03	04	05	06	07	08	09	10	11
Name or Item Tag	Equipment Category per Tables 110.2, 140.4(a) and 170.2(c)(4)	Equipment Type per Tables 110.2 and Title 20	Smallest Size Available <sup>1</sup> (140.4(a) and 170.2(c)(1))	Heating Output <sup>2,3</sup> (kBtu/h)	Rated Heating Output (kBtu/h)	Supp. Heating Output (kBtu/h)	Sensible Per Design (kBtu/h)	Rated Cooling Output <sup>2,3</sup> (kBtu/h)	Total Heating Load (kBtu/h)	Total Sensible Cooling Load (kBtu/h)
AC-M4	Furnace + AC	AC, air cooled, single phase + warm-air central furnace, gas-fired	Yes	100	100	0	64	64.7	85	72
AC-M3	Furnace + AC	AC, air cooled, single phase + warm-air central furnace, gas-fired	Yes	88	88	0	48	48	75	60
AC-M-1,2	Furnace + AC	AC, air cooled, single phase + warm-air central furnace, gas-fired	Yes	144	144	0	135	138	280	250
AC-M5	Furnace + AC	AC, air cooled, single phase + warm-air central furnace, gas-fired	Yes	88	88	0	48	48	70	63
AC-M6	Furnace + AC	AC, air cooled, single phase + warm-air central furnace, gas-fired	Yes	53.6	53.6	0	27.9	27.9	42	45

G. PUMPS	
This section does not apply to this project.	

Q. MANDATORY MEASURES DOCUMENTATION LOCATION			
This table is used to indicate where mandatory measures are documented in the plan set or construction documentation.			
01		02	
Compliance with Mandatory Measures documented through MCH	No	Plan sheet or construction document location	
Mandatory Measures Note Block			
03		04	
Mandatory Measure		Plan sheet or construction document location	
Heating Equipment Efficiency per 110.1		MD-1.2	
Cooling Equipment Efficiency per 110.1		MD-1.2	
Furnace Standby Loss Control per 110.2(d)		G-75	
Heat Pump with Supplemental electric Resistance Heater Controls per 110.2(b)		NA	

H. FAN SYSTEMS & AIR ECONOMIZERS								
This section does not apply to this project.								

I. SYSTEM CONTROLS								
This table is used to demonstrate compliance with mandatory controls in 110.2 and 120.2 and prescriptive controls in 140.4(f) and (h), 170.2(d)(4) 170.2(c)(4) or requirements in 141.0B(2) 180.2(b)(2) for altered space conditioning systems.								
01	02	03	04	05	06	07	08	09
System Name	System Zoning	Conditioned Floor Area Being Served (ft <sup>2</sup> )	Thermostats (110.2(b) & (c), 120.2(a) & 120.2(a)(2) & 180.2(b)(2) & 180.2(b)(2)(E) & 180.2(b)(2)(F))	Shut-Off Controls (120.2(a) & 160.3(a)(2))	Isolation Zone Controls (120.2(a) & 160.3(a)(2))	Demand Response (110.12, 120.2(b) & 160.3(a)(2))	Supply Air Temp. Reset (140.4(f) & 170.2(d)(4D))	Window Interlocks per 140.4(h) & 170.2(d)(4D)
T-HP-R2	Single zone	<= 25,000 ft <sup>2</sup>	EMCS	EMCS	NA, Single Zone	EMCS	NA, Single Zone	NA: No operable windows

J. VENTILATION AND INDOOR AIR QUALITY								
This section does not apply to this project.								

K. TERMINAL BOX CONTROLS								
This section does not apply to this project.								

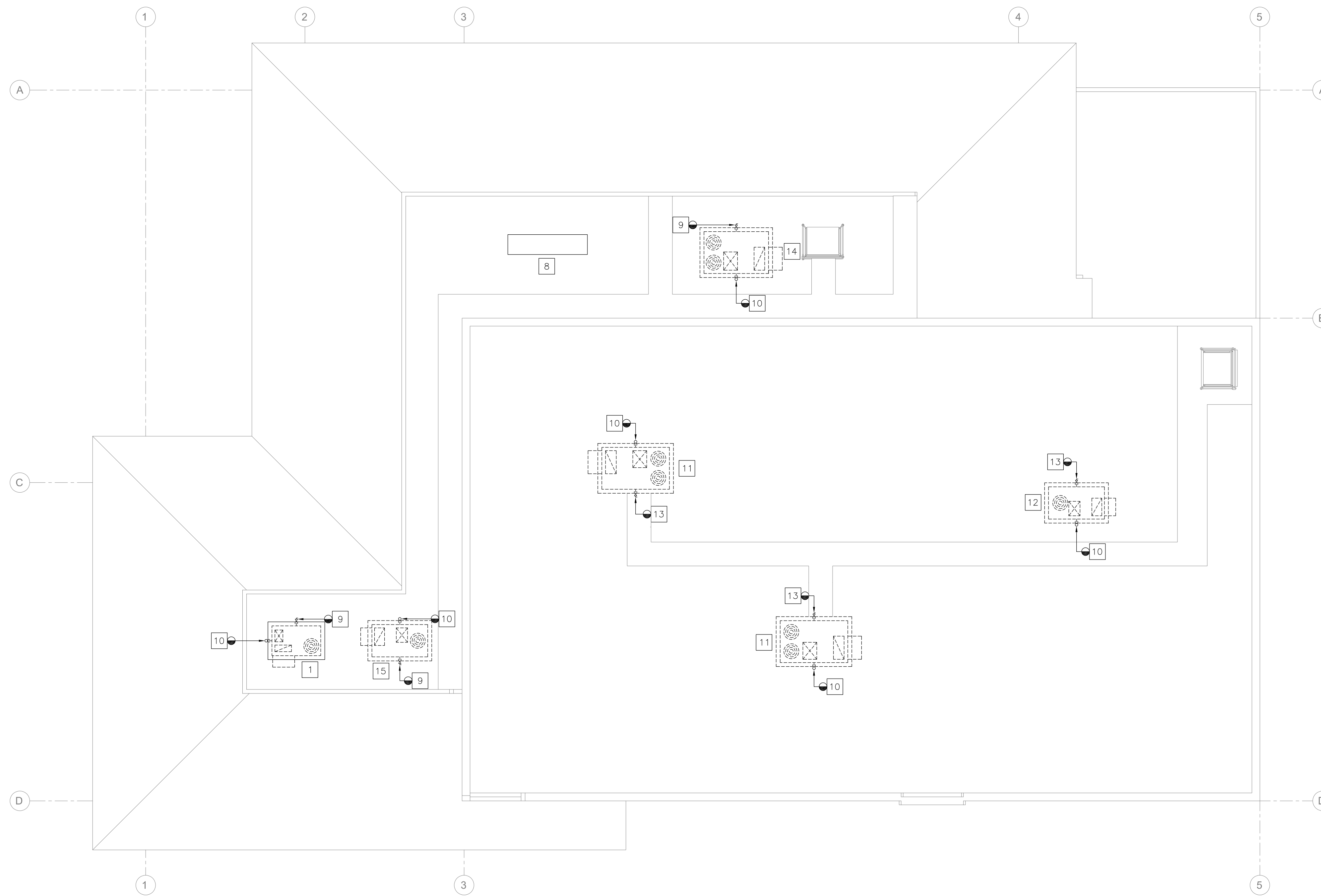






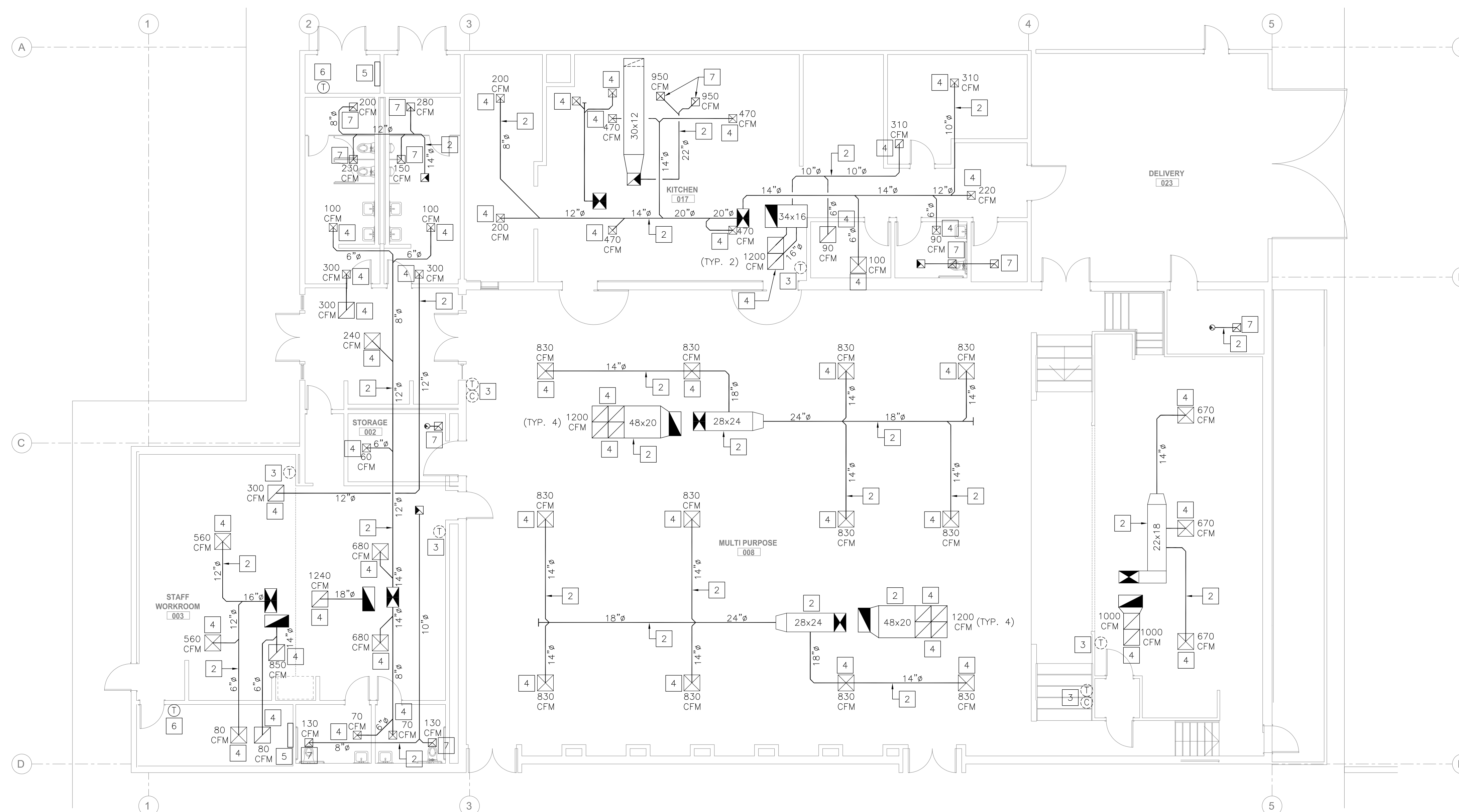






MECHANICAL DEMOLITION ROOF PLAN - MULTI-PURPOSE

2  
1/8" = 1'-0"



MECHANICAL DEMOLITION FLOOR PLAN - MULTI-PURPOSE

1  
1/8" = 1'-0"

DEMOLITION NOTES

- 1.- REMOVE EXISTING ROOFTOP AIR CONDITIONING UNIT. DISCONNECT ALL UTILITIES FROM THE UNIT. DISCONNECT UNIT FROM EXISTING SUPPLY AND RETURN DUCTWORK AT ROOF LINE. MODIFY DUCTWORK FOR RECONNECTION. EXISTING ROOF CURB TO REMAIN. PROTECT IN PLACE DURING CONSTRUCTION. PREPARE AREA OF REMOVAL TO RECEIVE NEW ROOFTOP AIR CONDITIONING UNIT. PERFORM DUCTWORK CLEANING PROCESS FIRST, THEN INSTALL NEW AIR CONDITIONING UNIT. SEE RENOVATION DRAWINGS FOR ADDITIONAL INFORMATION.
- 2.- EXISTING DUCTWORK AND ACCESSORIES TO REMAIN. PROTECT IN PLACE DURING CONSTRUCTION.
- 3.- REMOVE EXISTING THERMOSTAT AND ASSOCIATED ACCESSORIES. FIELD VERIFY EXACT LOCATION PRIOR TO START OF WORK. PREPARE THE AREA OF REMOVAL TO RECEIVE NEW THERMOSTAT. SEE RENOVATION DRAWINGS FOR ADDITIONAL INFORMATION.
- 4.- FIELD MEASURE THE EXISTING AIR QUANTITY PER REQUIREMENTS OF AIR BALANCE NOTE ON THIS SHEET. EXISTING CEILING/SIDEWALL GRILLE/DIFFUSER TO REMAIN. PROTECT IN PLACE DURING CONSTRUCTION. CLEAN ALL GRILLES/DIFFUSERS AND REMOVE ALL DIRT, STAINS AND DEBRIS.
- 5.- EXISTING WALL MOUNTED INDOOR SPLIT-AIR CONDITIONER UNIT AND ASSOCIATED OUTDOOR UNIT ON ROOF TO REMAIN. PROTECT IN PLACE DURING CONSTRUCTION.
- 6.- EXISTING THERMOSTAT TO REMAIN. PROTECT IN PLACE DURING CONSTRUCTION.
- 7.- EXISTING EXHAUST AIR CEILING DIFFUSER TO REMAIN. PROTECT IN PLACE DURING CONSTRUCTION. CLEAN ALL DIFFUSERS AND REMOVE ALL DIRT AND DEBRIS.
- 8.- EXISTING ROOFTOP MAKE-UP AIR UNIT TO REMAIN. PROTECT IN PLACE DURING CONSTRUCTION.
- 9.- P.O.R.- DISCONNECT EXISTING GAS PIPING FROM A/C UNIT AND REMOVE PIPING UP TO POINT OF CONNECTION TO THE EXISTING BOOT ASSEMBLY ABV. ROOF LINE FOR RECONNECTION TO NEW A/C UNIT. (PROTECT EXISTING GAS PIPING BOOT ASSEMBLY DURING CONSTRUCTION).
- 10.- P.O.R.- DISCONNECT EXISTING CONDENSATE DRAIN PIPING FROM A/C UNIT AND REMOVE PIPING UP TO POINT OF CONNECTION TO THE EXISTING BOOT ASSEMBLY ABV. ROOF LINE FOR RECONNECTION TO NEW A/C UNIT. (PROTECT EXISTING CD PIPING BOOT ASSEMBLY DURING CONSTRUCTION).
- 11.- REMOVE EXISTING ROOFTOP AIR CONDITIONING UNIT. DISCONNECT ALL UTILITIES FROM THE UNIT. DISCONNECT UNIT FROM EXISTING SUPPLY AND RETURN DUCTWORK AT ROOF LINE. MODIFY DUCTWORK FOR RECONNECTION. REMOVE EXISTING ROOF CURB AND ISO CURB. PREPARE AREA OF REMOVAL TO RECEIVE NEW ROOF CURB, ISO CURB AND NEW ROOFTOP AIR CONDITIONING UNIT. PERFORM DUCTWORK CLEANING PROCESS FIRST, THEN INSTALL NEW AIR CONDITIONING UNIT. SEE RENOVATION DRAWINGS FOR ADDITIONAL INFORMATION.
- 12.- REMOVE EXISTING ROOFTOP AIR CONDITIONING UNIT. DISCONNECT ALL UTILITIES FROM THE UNIT. DISCONNECT UNIT FROM EXISTING SUPPLY AND RETURN DUCTWORK AT ROOF LINE. MODIFY DUCTWORK FOR RECONNECTION. REMOVE EXISTING ROOF CURB. PREPARE AREA OF REMOVAL TO RECEIVE NEW ROOF CURB AND NEW ROOFTOP AIR CONDITIONING UNIT. PERFORM DUCTWORK CLEANING PROCESS FIRST, THEN INSTALL NEW AIR CONDITIONING UNIT. SEE RENOVATION DRAWINGS FOR ADDITIONAL INFORMATION.
- 13.- P.O.R.- DISCONNECT AND REMOVE EXISTING GAS PIPING FROM A/C UNIT AND REMOVE PIPING TO POINT OF CONNECTION AT ROOF LINE. REPAIR AND PATCH ROOF TO MATCH EXISTING TO THE SATISFACTION OF THE OWNER/ARCHITECT.
- 14.- REMOVE EXISTING ROOFTOP AIR CONDITIONING UNIT. DISCONNECT ALL UTILITIES FROM THE UNIT. DISCONNECT UNIT FROM EXISTING SUPPLY AND RETURN DUCTWORK AT ROOF LINE. MODIFY DUCTWORK FOR RECONNECTION. REMOVE EXISTING ROOF CURB AND ISO CURB. PREPARE AREA OF REMOVAL TO RECEIVE NEW TRANSITION ISO CURB AND NEW ROOFTOP AIR CONDITIONING UNIT. PERFORM DUCTWORK CLEANING PROCESS FIRST, THEN INSTALL NEW AIR CONDITIONING UNIT. SEE RENOVATION DRAWINGS FOR ADDITIONAL INFORMATION.
- 15.- REMOVE EXISTING ROOFTOP AIR CONDITIONING UNIT. DISCONNECT ALL UTILITIES FROM THE UNIT. DISCONNECT UNIT FROM EXISTING SUPPLY AND RETURN DUCTWORK AT ROOF LINE. MODIFY DUCTWORK FOR RECONNECTION. REMOVE EXISTING ROOF CURB. PREPARE AREA OF REMOVAL TO RECEIVE NEW TRANSITION CURB AND NEW ROOFTOP AIR CONDITIONING UNIT. PERFORM DUCTWORK CLEANING PROCESS FIRST, THEN INSTALL NEW AIR CONDITIONING UNIT. SEE RENOVATION DRAWINGS FOR ADDITIONAL INFORMATION.

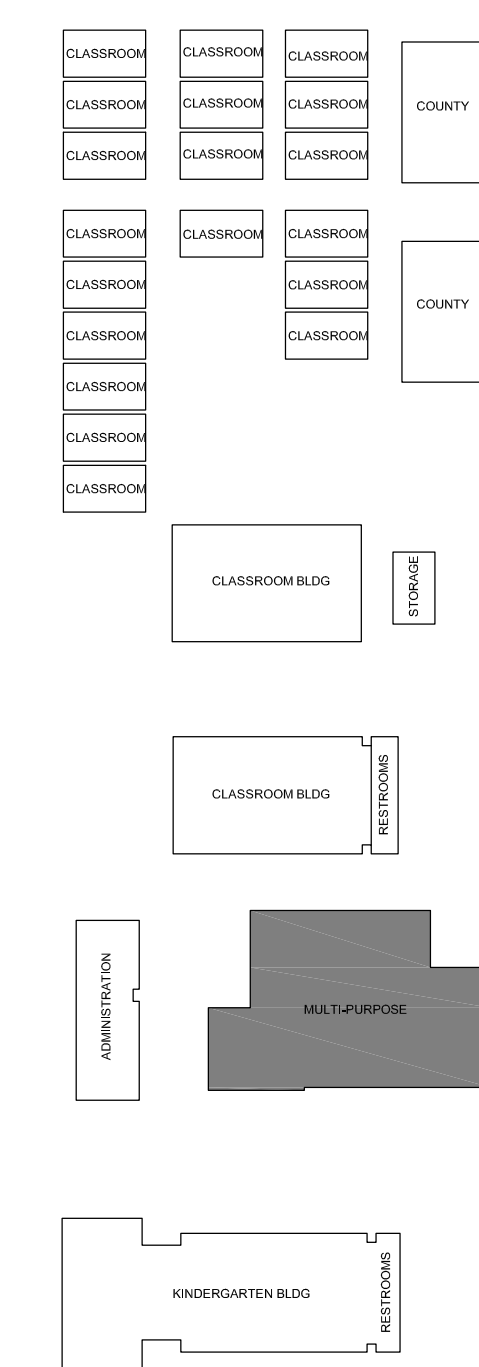
AIR BALANCE NOTE

1. EXISTING AIRFLOW RATES SHOWN ARE FOR REFERENCE ONLY. PERFORM PRE-DEMOLITION AIR BALANCE TO FIELD MEASURE THE EXISTING AIR QUANTITY FOR EACH SUPPLY AND RETURN AIR OUTLET AND INLET PRIOR TO COMMENCEMENT OF ANY DEMOLITION WORK. PREPARE A TABULATED REPORT AND ANNOTATE THE DEMOLITION FLOOR PLANS WITH THE FIELD MEASURED AIR QUANTITY VALUES. SUBMIT DRAWINGS AND REPORT TO ENGINEER/ARCHITECT FOR REVIEW PRIOR TO COMMENCEMENT OF DEMOLITION WORK.

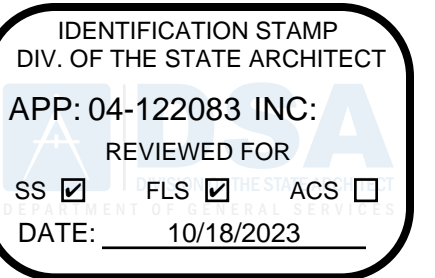
GENERAL DEMOLITION NOTES

- G1. THIS DRAWING HAS BEEN GENERATED BASED ON EXISTING RECORD DRAWINGS AND IS SHOWN FOR REFERENCE ONLY. IT IS NOT NECESSARILY INDICATING THE EXACT LAYOUT, SIZE, LOCATION, AND DIMENSIONS OF THE EXISTING SYSTEM.
- G2. CONTRACTOR TO FIELD-VERIFY ALL EXISTING MECHANICAL COMPONENTS PRIOR TO BID AND NOTIFY AOR/MEOR OF ANY DISCREPANCIES. DISCREPANCIES NOT NOTED PRIOR TO BID SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR AND SHALL BE RESPONSIBLE FOR PROVIDING ALL REQUIRED WORK NECESSARY TO ACCOMMODATE THE INSTALLATION OF ALL NEW MECHANICAL WORK SHOWN.

KEYPLAN



1  
1/8" = 1'-0"



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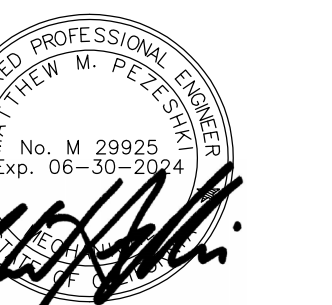
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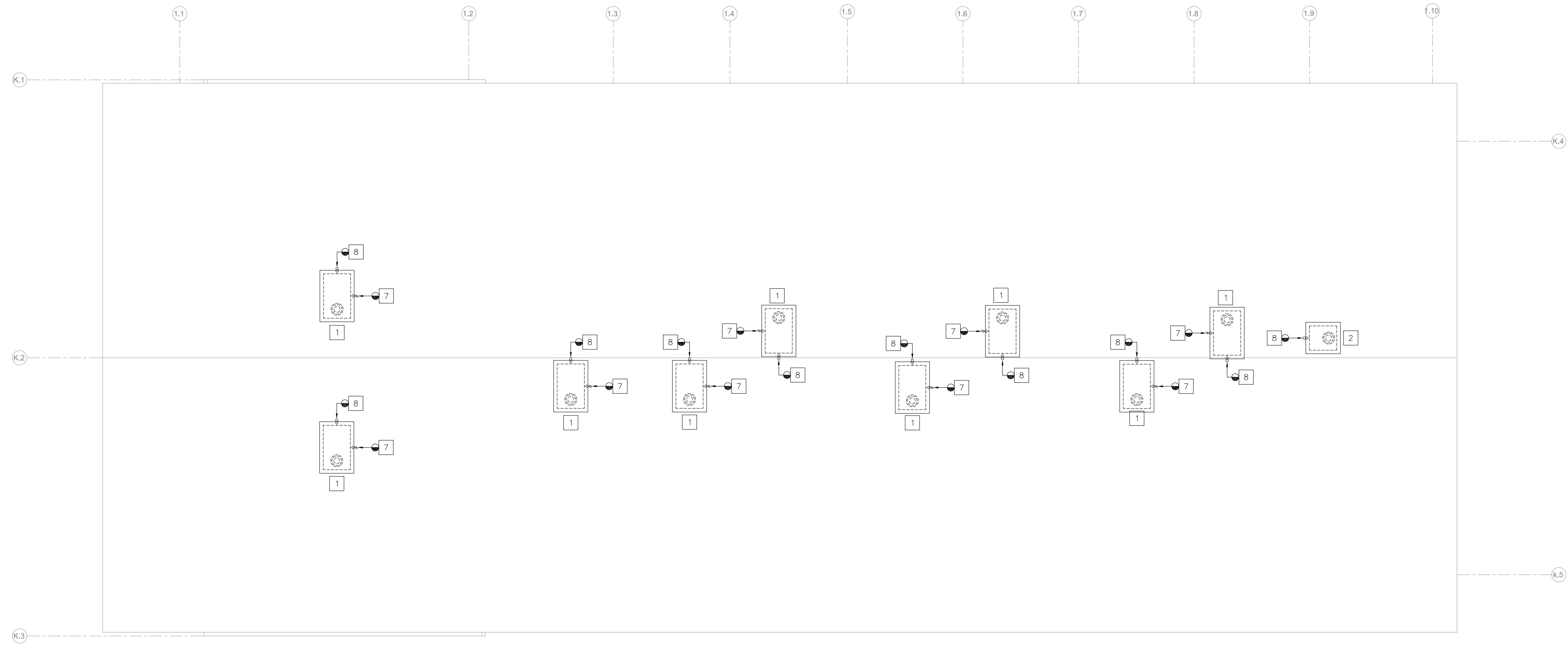
SHEET TITLE:  
**MECHANICAL  
DEMOLITION PLANS -  
MULTI-PURPOSE**

SHEET NUMBER:  
**MD2-1.2**

WD PROJ. # 22825 | DRAWN BY: | CHECKED: | DATE 07/24/23

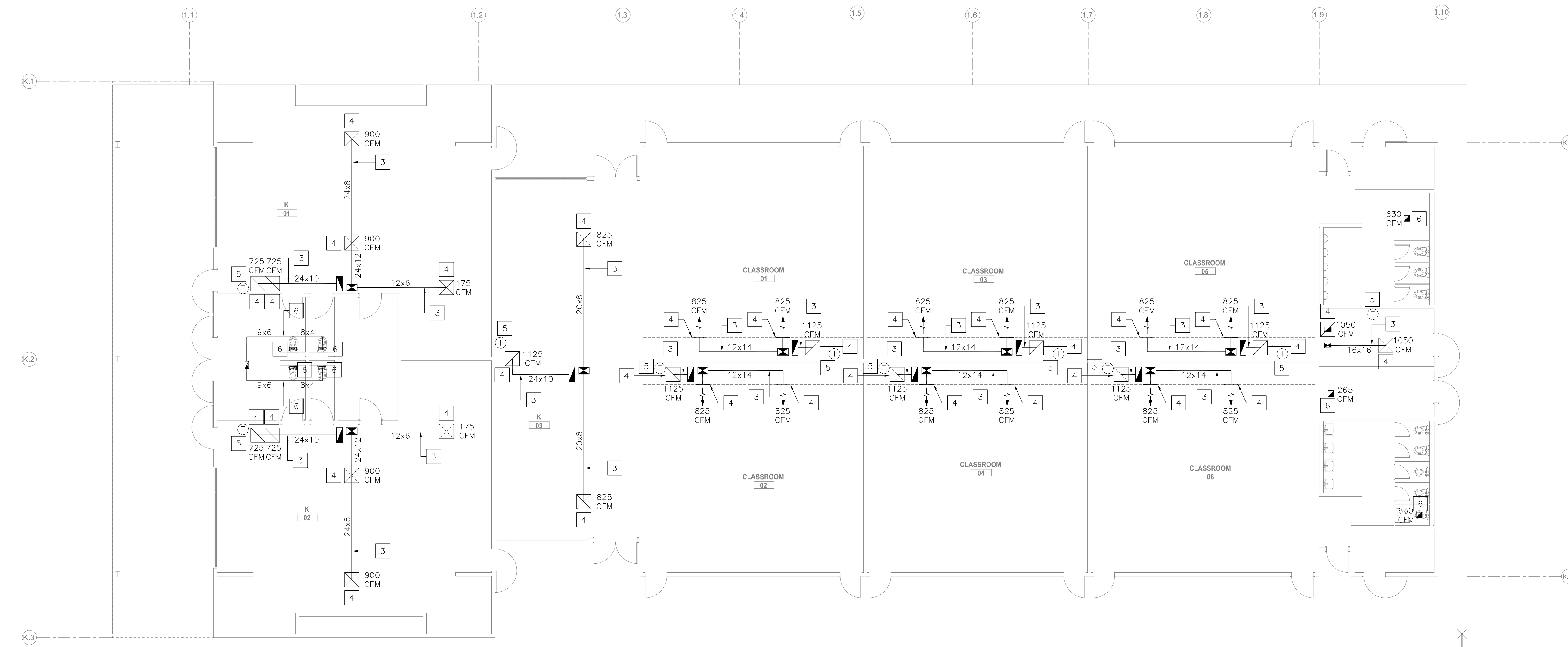
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MECHANICAL DEMOLITION ROOF PLAN - KINDERGARTEN

2  
1/8" = 1'-0"



MECHANICAL DEMOLITION FLOOR PLAN - KINDERGARTEN

1  
1/8" = 1'-0"

DEMOLITION NOTES

- 1.- REMOVE EXISTING ROOFTOP AIR CONDITIONING UNIT. DISCONNECT ALL UTILITIES FROM THE UNIT. DISCONNECT UNIT FROM EXISTING SUPPLY AND RETURN DUCTWORK AT ROOF LINE. MODIFY DUCTWORK FOR RECONNECTION. EXISTING ROOF CURB TO REMAIN. PROTECT IN PLACE DURING CONSTRUCTION. PREPARE AREA OF REMOVAL TO RECEIVE NEW ROOFTOP AIR CONDITIONING UNIT. PERFORM DUCTWORK CLEANING PROCESS FIRST, THEN INSTALL NEW AIR CONDITIONING UNIT. SEE RENOVATION DRAWINGS FOR ADDITIONAL INFORMATION.
- 2.- REMOVE EXISTING ROOFTOP HEAT PUMP UNIT. DISCONNECT ALL UTILITIES FROM THE UNIT. DISCONNECT UNIT FROM EXISTING SUPPLY AND RETURN DUCTWORK AT ROOF LINE. MODIFY DUCTWORK FOR RECONNECTION. EXISTING ROOF CURB TO REMAIN. PROTECT IN PLACE DURING CONSTRUCTION. PREPARE AREA OF REMOVAL TO RECEIVE NEW ROOFTOP HEAT PUMP UNIT AND SHIM CURB. PERFORM DUCTWORK CLEANING PROCESS FIRST, THEN INSTALL NEW AIR CONDITIONING UNIT. SEE RENOVATION DRAWINGS FOR ADDITIONAL INFORMATION.
- 3.- EXISTING DUCTWORK AND ASSOCIATED ACCESSORIES TO REMAIN. PROTECT IN PLACE DURING CONSTRUCTION.
- 4.- FIELD MEASURE THE EXISTING AIR QUANTITY PER REQUIREMENTS OF AIR BALANCE NOTE ON THIS SHEET. EXISTING CEILING/SIDEWALL GRILLE/DIFFUSER TO REMAIN. PROTECT IN PLACE DURING CONSTRUCTION. CLEAN ALL GRILLES/DIFFUSERS AND REMOVE ALL DIRT, STAINS AND DEBRIS.
- 5.- REMOVE EXISTING THERMOSTAT AND ASSOCIATED ACCESSORIES. FIELD VERIFY EXACT LOCATION PRIOR TO START OF WORK. PREPARE THE AREA OF REMOVAL TO RECEIVE NEW THERMOSTAT. SEE RENOVATION DRAWINGS FOR ADDITIONAL INFORMATION.
- 6.- EXISTING EXHAUST AIR DUCTWORK AND CEILING/SIDEWALL DIFFUSER TO REMAIN. PROTECT IN PLACE DURING CONSTRUCTION. CLEAN ALL DIFFUSERS AND REMOVE ALL DIRT, STAINS AND DEBRIS.
- 7.- P.O.R.- DISCONNECT EXISTING GAS PIPING FROM A/C UNIT AND REMOVE PIPING UP TO POINT OF CONNECTION TO THE EXISTING BOOT ASSEMBLY ABV. ROOF LINE FOR RECONNECTION TO NEW A/C UNIT. (PROTECT EXISTING GAS PIPING BOOT ASSEMBLY DURING CONSTRUCTION).
- 8.- P.O.R.- DISCONNECT EXISTING CONDENSATE DRAIN PIPING FROM A/C UNIT AND REMOVE PIPING TO POINT OF CONNECTION TO THE EXISTING BOOT ASSEMBLY ABV. ROOF LINE FOR RECONNECTION TO NEW A/C UNIT. (PROTECT EXISTING CD PIPING BOOT ASSEMBLY DURING CONSTRUCTION).

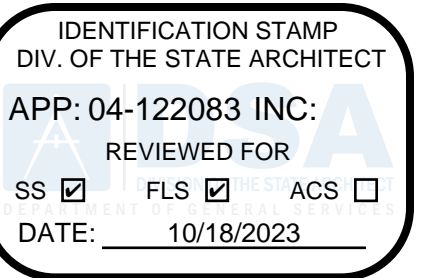
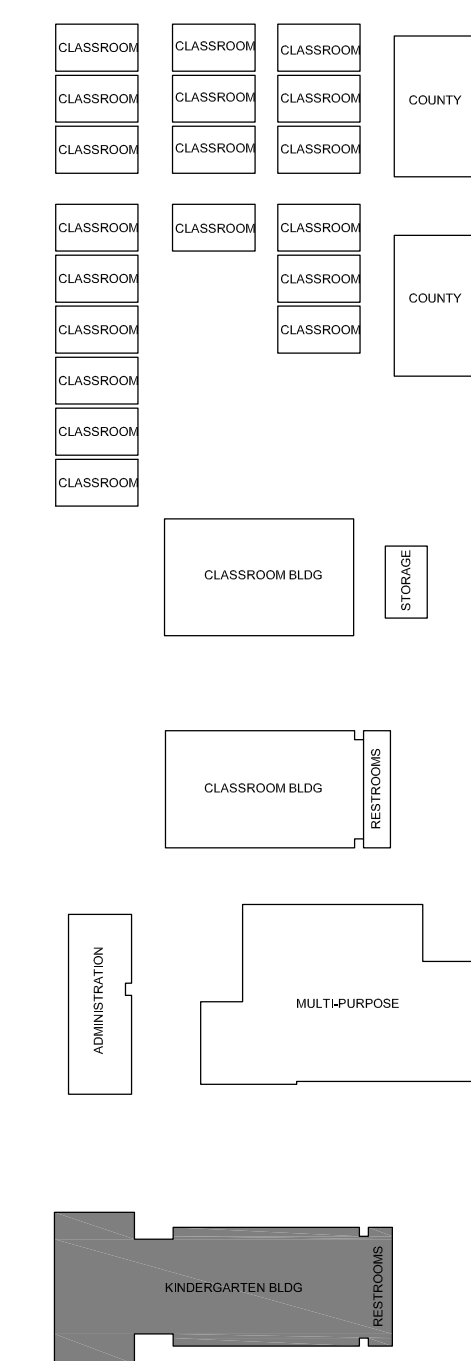
AIR BALANCE NOTE

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GENERAL DEMOLITION NOTES

- G1. THIS DRAWING HAS BEEN GENERATED BASED ON EXISTING RECORD DRAWINGS AND IS SHOWN FOR REFERENCE ONLY. IT IS NOT NECESSARILY INDICATING THE EXACT LAYOUT, SIZE, LOCATION, AND DIMENSIONS OF THE EXISTING SYSTEM.
- G2. CONTRACTOR TO FIELD-VERIFY ALL EXISTING MECHANICAL COMPONENTS PRIOR TO BID AND NOTIFY AOR/MEOR OF ANY DISCREPANCIES. DISCREPANCIES NOT NOTED PRIOR TO BID SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR AND SHALL BE RESPONSIBLE FOR PROVIDING ALL REQUIRED WORK NECESSARY TO ACCOMMODATE THE INSTALLATION OF ALL NEW MECHANICAL WORK SHOWN.

KEYPLAN



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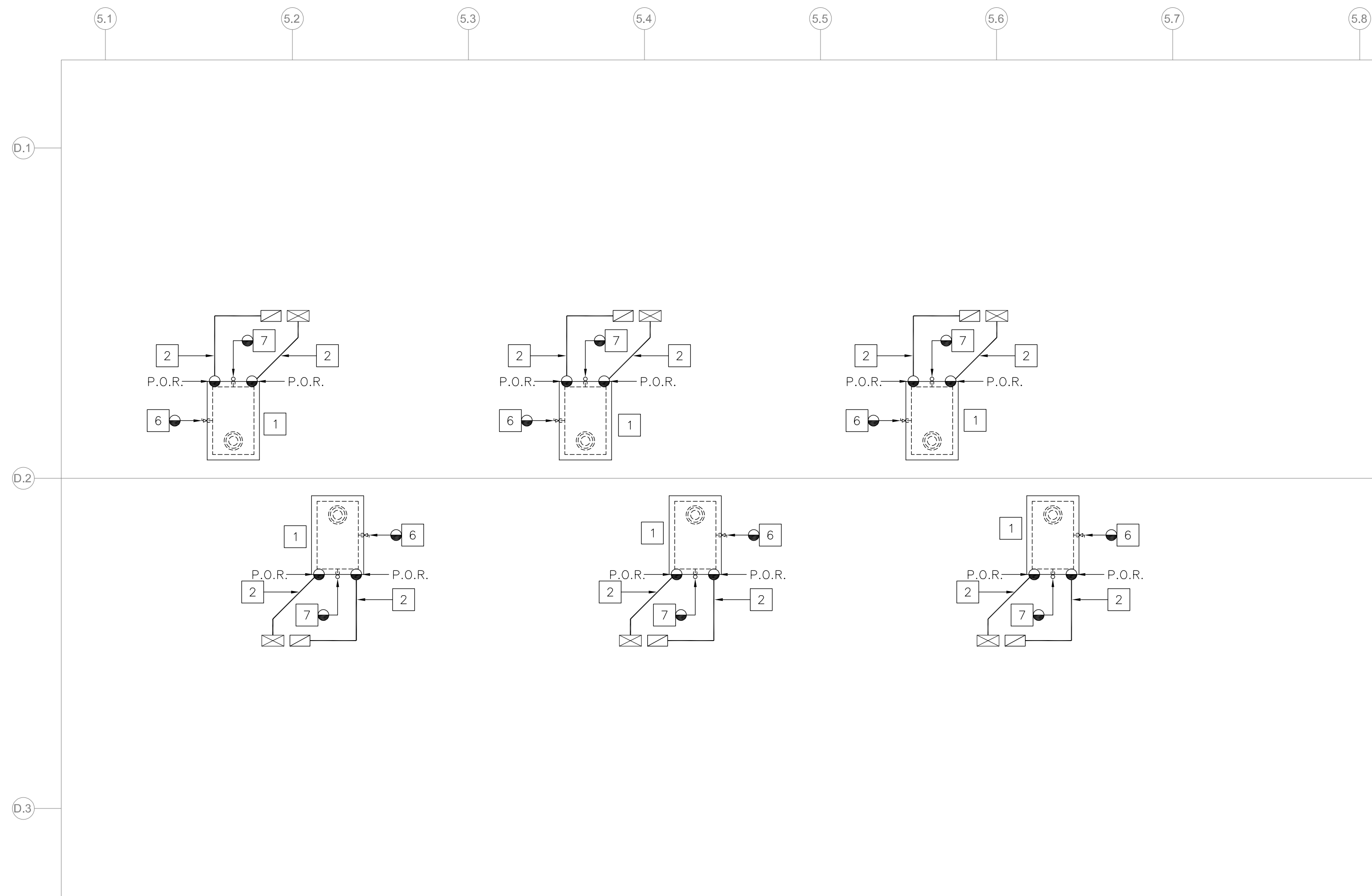
SHEET TITLE:  
**MECHANICAL  
DEMOLITION PLANS -  
KINDERGARTEN**

SHEET NUMBER:  
**MD2-1.3**

WD PROJ. # 22825 | DRAWN BY: | CHECKED: | DATE 07/24/23

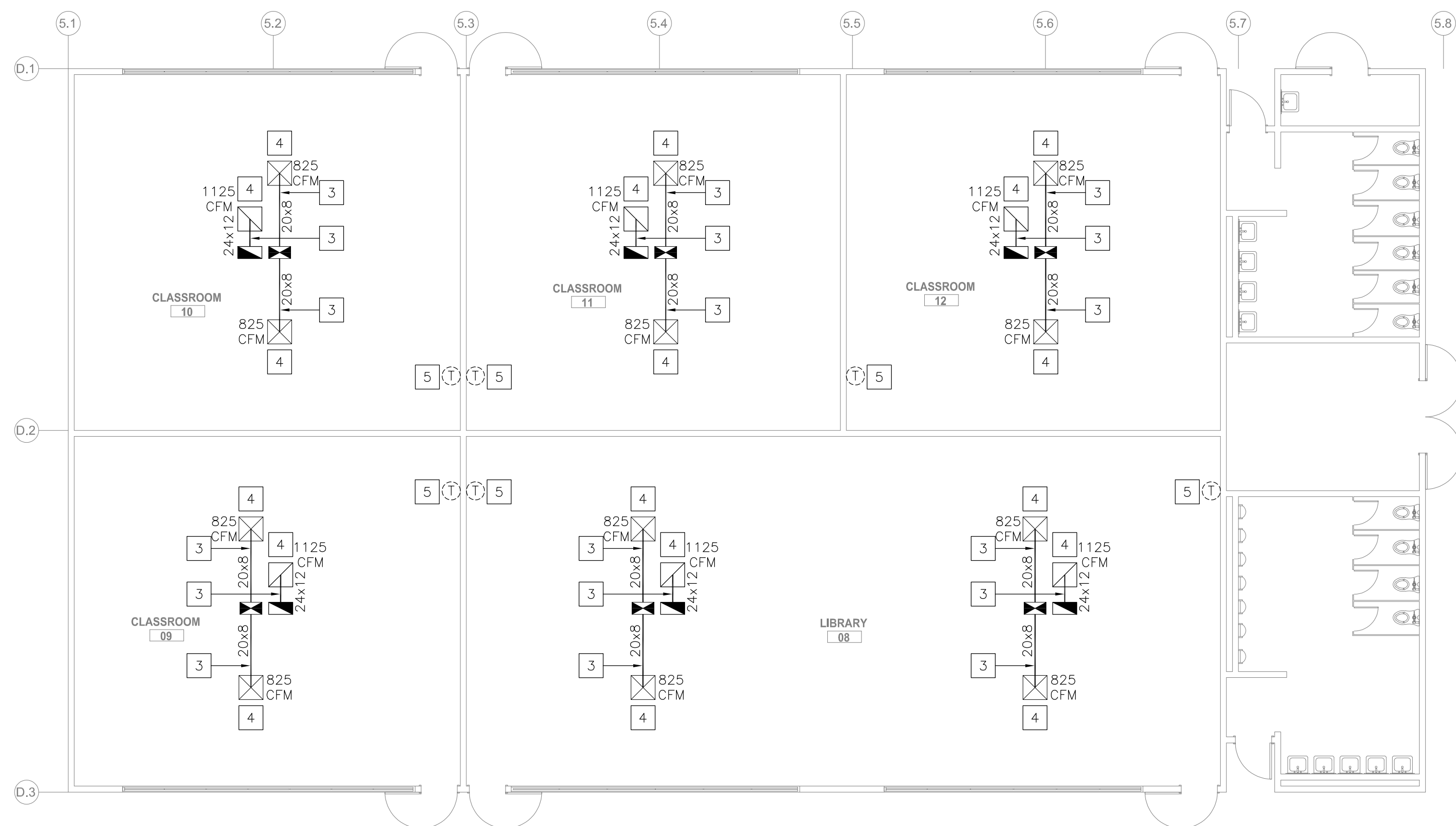
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MECHANICAL DEMOLITION ROOF PLAN - CLASSROOM 9 THRU 12

2  
1/8" = 1'-0"

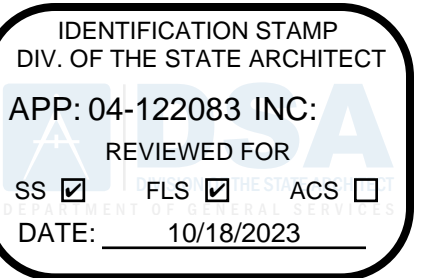


MECHANICAL DEMOLITION FLOOR PLAN - CLASSROOM 9 THRU 12

1  
1/8" = 1'-0"

**DEMOLITION NOTES**

- 1.- REMOVE EXISTING ROOFTOP AIR CONDITIONING UNIT, DISCONNECT ALL UTILITIES FROM THE UNIT, DISCONNECT UNIT FROM EXISTING SIDE DISCHARGE SUPPLY AND RETURN DUCTWORK AT FLEX CONNECTOR. MODIFY DUCTWORK SUPPLY AND RETURN DUCTWORK TO REMAIN. PROTECT IN PLACE DURING CONSTRUCTION. PREPARE AREA OF REMOVAL TO RECEIVE NEW ROOFTOP AIR CONDITIONING UNIT. PERFORM DUCTWORK CLEANING PROCESS FIRST, THEN INSTALL NEW AIR CONDITIONING UNIT. SEE RENOVATION DRAWINGS FOR ADDITIONAL INFORMATION.
- 2.- EXISTING ROOFTOP EXPOSED DUCTWORK AND ASSOCIATED ACCESSORIES TO REMAIN. PROTECT IN PLACE DURING CONSTRUCTION. PAINT ALL EXPOSED DUCTWORK TO MATCH ROOF FINISH.
- 3.- EXISTING DUCTWORK AND ASSOCIATED ACCESSORIES TO REMAIN. PROTECT IN PLACE DURING CONSTRUCTION.
- 4.- FIELD MEASURE THE EXISTING AIR QUANTITY PER REQUIREMENTS OF AIR BALANCE NOTE ON THIS SHEET. EXISTING CEILING/SIDEWALL GRILLE/DIFFUSER TO REMAIN. PROTECT IN PLACE DURING CONSTRUCTION. CLEAN ALL GRILLES/DIFFUSERS AND REMOVE ALL DIRT, STAINS AND DEBRIS.
- 5.- REMOVE EXISTING THERMOSTAT AND ASSOCIATED ACCESSORIES. FIELD VERIFY EXACT LOCATION PRIOR TO START OF WORK. PREPARE THE AREA OF REMOVAL TO RECEIVE NEW THERMOSTAT. SEE RENOVATION DRAWINGS FOR ADDITIONAL INFORMATION.
- 6.- P.O.R.- DISCONNECT EXISTING GAS PIPING FROM A/C UNIT AND REMOVE PIPING UP TO POINT OF CONNECTION TO THE EXISTING BOOT ASSEMBLY ABV. ROOF LINE FOR RECONNECTION TO NEW A/C UNIT. (PROTECT EXISTING GAS PIPING BOOT ASSEMBLY DURING CONSTRUCTION).
- 7.- P.O.R.- DISCONNECT EXISTING CONDENSATE DRAIN PIPING FROM A/C UNIT AND REMOVE PIPING TO POINT OF CONNECTION TO THE EXISTING BOOT ASSEMBLY ABV. ROOF LINE FOR RECONNECTION TO NEW A/C UNIT. (PROTECT EXISTING CD PIPING BOOT ASSEMBLY DURING CONSTRUCTION).



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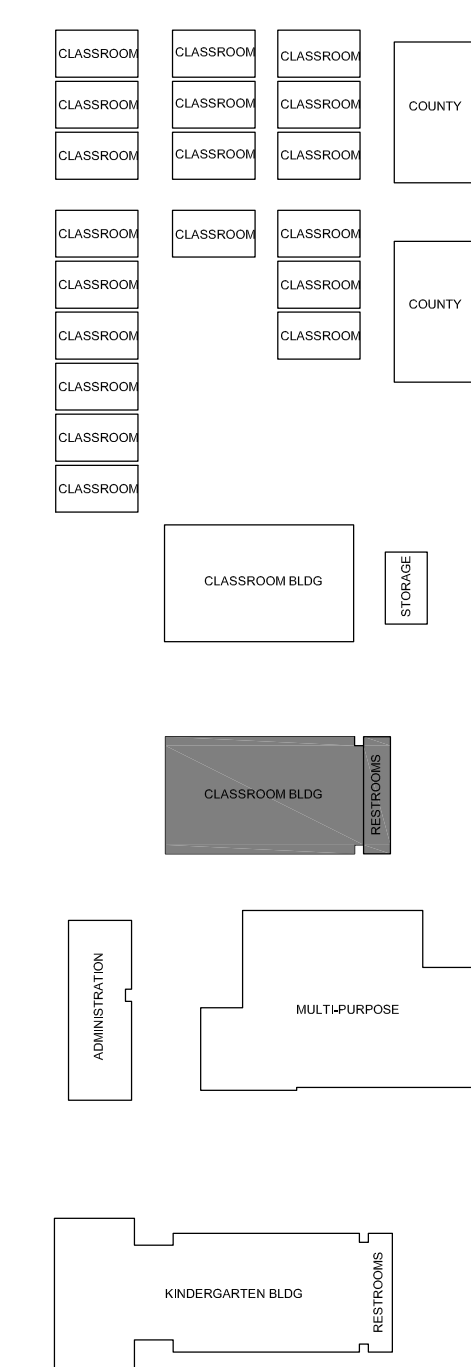
**AIR BALANCE NOTE**

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**GENERAL DEMOLITION NOTES**

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**KEYPLAN**



ISSUED FOR:

REVISIONS:

REGISTRATION/SIGNATURE:



**MECHANICAL DEMO.  
FLOOR PLANS -  
CLASSROOM 9 THRU 12**

SHEET NUMBER:

**MD2-1.4**

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GENERAL NOTES

- 1. THE ELECTRICAL CONTRACTOR (EC) SHALL INCLUDE AND PROVIDE IN BID ALL LABOR AND MATERIALS NECESSARY FOR A COMPLETE AND OPERATIONAL INSTALLATION OF ALL ELECTRICAL SYSTEMS.
2. EC SHALL COORDINATE AND OBTAIN ALL APPROVALS, PERMITS, AND DOCUMENTS FROM REGULATORY AGENCIES AND UTILITY COMPANIES.
3. ALL CONDUIT RACEWAY SYSTEMS ARE TO BE INSTALLED AS FOLLOWS:
a. RIGID GALVANIZED STEEL IS TO BE INSTALLED IN ALL AREAS WHICH ARE EXPOSED TO WEATHER AND/OR PHYSICAL DAMAGE.
b. FLEXIBLE METALLIC CONDUIT IS PERMITTED FOR SHORT CONNECTIONS TO LIGHT FIXTURES (6'-0" MAX). FLEXIBLE CONDUIT SHALL ALSO BE INSTALLED FOR EQUIPMENT REQUIRING VIBRATION ISOLATION AND HORIZONTAL RUNS IN WOODEN STUD WALLS.
c. ELECTRICAL METALLIC TUBING (EMT) WITH COMPRESSION TYPE FITTINGS SHALL BE USED FOR BUILDING INTERIOR WORK.
d. P.V.C. CONDUIT SHALL BE USED FOR UNDERGROUND CONDUITS. ROUTE CODE SIZED GROUND WIRE INSIDE OF CONDUIT. CONDUIT RISERS AND STUBS ABOVE GRADE SHALL BE 1/2" C. WITH HALF-LAPPED TAPE COVERING OR P.V.C. COATING.
4. UNLESS OTHERWISE NOTED OR REFERENCED ON THE DRAWINGS ALL NEW ELECTRICAL WIRING IS TO BE 600V RATED COPPER WITH TYPE "THHN/THWN" INSULATION.
5. ALL MOUNTING HEIGHTS REFERENCED ON DRAWINGS ARE MEASURED FROM FINISHED FLOOR UNLESS OTHERWISE REFERENCED OR INDICATED ON THE DRAWINGS.
6. ALL ELECTRICAL EQUIPMENT LOCATIONS (LIGHTING, RECEPTACLE, FLOOR BOX, ETC.) ARE TO BE VERIFIED WITH THE ARCHITECT AND/OR EQUIPMENT SUPPLIER PRIOR TO BEGINNING ANY ROUGH-IN.
7. ALL LIGHTING FIXTURES SHALL BE MOUNTED AND SUPPORTED IN ACCORDANCE WITH OSHA STANDARDS, AND ALL STATE, LOCAL, SEISMIC, AND NATIONAL ELECTRIC CODES.
8. THE DRAWINGS INCLUDED IN THIS DOCUMENT SET ARE DIAGRAMMATIC. THEY ARE REPRESENTATIVE OF THE ENGINEER OR RECORDS DESIGN INTENT FOR ALL ELECTRICAL DEVICES/EQUIPMENT AND THE INDIVIDUAL POWER FEEDS THEY ARE TO BE CONNECTED TO. THE SELECTED EC SHALL BE RESPONSIBLE FOR PROVIDING ALL J-BOXES, CONDUIT, WIRING/CABLING, ETC. AS REQUIRED FOR A COMPLETE AND OPERATIONAL ELECTRICAL INSTALLATION.
9. ALL ELECTRICAL EQUIPMENT (PANELS, RECEPTACLES, J-BOXES, ETC.) SHALL BE WEATHERPROOF AND/OR INSTALLED IN A NEMA 3R ENCLOSURE WHERE APPLICABLE OR INSTALLED OUTDOORS.
10. ALL ELECTRICAL WORK SHALL BE PERFORMED ACCORDING TO STATE, LOCAL, NATIONAL, AND DISTRICT STANDARDS AND CODES. COORDINATE SPECIFIC REQUIREMENTS WITH DISTRICT STANDARDS AND AUTHORITY HAVING JURISDICTION.
11. ALL ELECTRICAL EQUIPMENT SHALL BE NEW AND IS TO BE CLEARLY LABELED/IDENTIFIED AS UNDERWRITER LABORATORIES (UL) COMPLIANT UNLESS OTHERWISE NOTED OR REFERENCED IN THE DRAWINGS OR SPECIFICATIONS. ANY EQUIPMENT WITH A LISTING OTHER THAN "UL" OR OTHER NATIONALLY RECOGNIZED TESTING LABORATORY (NRTL) LISTING AS REFERENCED IN NEC 110.2 (I.E. EQUIPMENT WITH A RECOGNIZED "UL/RU" LISTING) ARE NOT PERMITTED FOR USE.
12. EC IS RESPONSIBLE FOR SECURING ALL REQUIRED BUILDING PERMITS AND SHALL INCLUDE THE COST TO SECURE BUILDING PERMITS IN THEIR FINAL BID.
13. UNLESS OTHERWISE WRITTEN, STATED, OR REFERENCED IN DRAWINGS OR SPECIFICATIONS CONTRACTOR SHALL GUARANTEE THE COMPLETE ELECTRICAL INSTALLATION FOR A PERIOD OF 1-YEAR.
14. ALL ELECTRICAL DISTRIBUTION EQUIPMENT (PANELS, DISTRIBUTION BOARDS, TRANSFORMERS, ETC), FEEDERS (CONDUIT, CONDUCTOR SIZE, AND QUANTITY), MECHANICAL EQUIPMENT, ELEVATORS, VARIABLE FREQUENCY DRIVES (VFD'S), ETC. MAY ONLY BE REFERENCED ON THE SINGLE-LINE DRAWING AND NOT INDIVIDUAL PLAN SHEETS. EC SHALL REVIEW AND VERIFY ALL REFERENCED INFORMATION ON THE SINGLE-LINE DRAWING.
15. EC SHALL BE RESPONSIBLE FOR ALL REQUIRED SAW-CUTTING, CORE DRILLING, PATCHING, REFINISHING, ETC. AS REQUIRED FOR INSTALLATION OF ELECTRICAL EQUIPMENT AND SYSTEMS. ANY PENETRATIONS OR OPENINGS MADE IN WALLS OR STRUCTURES SHALL BE PATCHED AND/OR SEALED AS REQUIRED TO MAINTAIN THE INTEGRITY AND/OR RATING OF THE WALL OR STRUCTURE.
16. EC SHALL VISIT THE SITE PRIOR TO SUBMISSION OF THEIR FINAL BID TO VERIFY ALL EXISTING SITE CONDITIONS WHICH MAY AFFECT THE COMPLETION OF THE ELECTRICAL INSTALLATION. ALL METHODS AND REQUIREMENTS FOR INSTALLATION SHALL BE DETERMINED PRIOR TO BID DATE. ELECTRICAL EC SHALL NOTIFY THE ENGINEER OF RECORD OF ANY REQUIRED MODIFICATIONS WHICH ARE NOT REFERENCED ON THESE ELECTRICAL PLANS. SUBMITTAL OF THE EC'S BID DEMONSTRATES THE CONTRACTOR'S AWARENESS OF ALL SITE CONDITIONS AND REQUIRED WORK TO BE PERFORMED.
17. ALL CEILING AND CEILING SYSTEMS AS A RULE ARE CONSIDERED TO BE INACCESSIBLE. ALL ELECTRICAL DEVICES AND EQUIPMENT INSTALLED ABOVE CEILING ARE TO BE MOUNTED IN A LOCATION WHICH IS ACCESSIBLE. IN SITUATIONS WHERE ELECTRICAL DEVICES AND EQUIPMENT MUST BE INSTALLED IN AN AREA WHICH IS INACCESSIBLE, EC SHALL INSTALL AN ADEQUATELY SIZED, CODE COMPLIANT ACCESS PANEL AS REQUIRED BY CURRENT AND LOCAL CODE. LOCATION OF THE REQUIRED ACCESS PANEL SHALL BE COORDINATE WITH THE ARCHITECT AND INTERIOR DESIGNER PRIOR TO ROUGH-IN.
18. EC IS RESPONSIBLE FOR COMPLETING ALL FINAL ELECTRICAL CONNECTIONS TO OWNER FURNISHED EQUIPMENT AND SHALL PROVIDE ALL MOTOR START SWITCHES, DISCONNECTS, ETC. AS REQUIRED.
19. ALL ELECTRICAL EQUIPMENT CONNECTIONS, MOUNTING LOCATIONS, ELECTRICAL REQUIREMENTS, ETC. ARE TO BE COORDINATED AND VERIFIED PRIOR TO COMMENCEMENT OF ELECTRICAL ROUGH-IN.
20. EC TO SUBMIT SHOP DRAWINGS FOR THE APPROVAL OF THE ELECTRICAL ENGINEER OF RECORD FOR ALL ELECTRICAL EQUIPMENT AND MATERIALS TO BE UTILIZED IN THE ELECTRICAL INSTALLATION. ALL APPROVALS BY THE ENGINEER OF RECORD MUST BE SECURED PRIOR TO COMPLETION OF ANY PURCHASE ORDERS OR ROUGH-IN WORK.
21. THESE ELECTRICAL DRAWINGS AND ASSOCIATED SPECIFICATIONS ARE TO BE CONSIDERED CONTRACT DOCUMENTS FOR AGENCY REVIEW/APPROVAL AND EC BIDDING PURPOSES.
22. THE COMPLETE ELECTRICAL SYSTEM SHALL BE GROUNDED IN ACCORDANCE WITH NEC/CEC ARTICLE 250. ALL POWER AND LIGHTING CIRCUITS SHALL BE INSTALLED WITH A MINIMUM #12AWG CU GROUND WIRE UNLESS OTHERWISE NOTED OR REFERENCED.
23. EC TO PROVIDE ENGRAVED PHENOLIC NAMEPLATES ON ALL DISCONNECT SWITCHES, DISTRIBUTION EQUIPMENT, J-BOXES, ETC. WITH METALLIC COVERS. SEE GENERAL NOTES ON SINGLE-LINE DIAGRAM FOR SPECIFIC INFORMATION REGARDING NAMEPLATE REQUIREMENTS.
24. ALL COVER PLATES FOR LIGHT SWITCHES AND OUTLETS SHALL BE STAINLESS STEEL WITH PANEL AND CIRCUIT ENGRAVED NAMEPLATES - UNLESS OTHERWISE NOTED.
25. AT THE COMPLETION OF THE PROJECT THE EC SHALL PROVIDE THE OWNER WITH A COMPLETE SET OF AS-BUILT ELECTRICAL DRAWINGS.
26. ANY AND ALL WORK THAT REQUIRES AN INTERRUPTION TO A BUILDING(S) ELECTRICAL SERVICE MUST BE COORDINATED WITH THE DISTRICT A MINIMUM OF 48 HOURS IN ADVANCE. ANY SERVICE DOWNTOWN SHALL NOT OCCUR DURING SCHOOL HOURS.
27. EC SHALL BE RESPONSIBLE FOR FOR ENSURING THAT ALL LOW VOLTAGE SYSTEMS ARE COMPATIBLE AND ARE COMPLETE AND OPERATIONAL.
28. EC SHALL PERMANENTLY TAG ALL CONDUCTORS IN EACH ELECTRICAL AND LOW VOLTAGE SYSTEM AS REFERENCED IN THE SPECIFICATIONS.
29. ANY SURFACE MOUNTED EXPOSED CONDUIT IN VIEW OF THE PUBLIC SHALL BE PAINTED TO MATCH THE FINISH OF THE SURFACE TO WHICH IT IS MOUNTED WITH TWO (2) COATS OF PAINT. ALL EXTERIOR SURFACE MOUNTED EXPOSED CONDUITS ARE TO BE PAINTED WITH TWO (2) COATS OF WEATHERPROOF LATEX PAINT.
30. EC TO PROVIDE ALL CONDUIT ONLY (C.O.) INFRASTRUCTURE WITH A 3/16" NYLON PULL ROPE. LABEL PULL ROPE AT EACH END WITH THE LOCATIONS OF ORIGIN AND TERMINATION.
31. IN INSTANCES WHERE A CONFLICT BETWEEN THE ELECTRICAL DRAWINGS AND THE SPECIFICATIONS FOR THE PROJECT EXISTS, THE EC SHALL ADHERE TO THE MORE STRINGENT REQUIREMENT.
32. SUPPORTS AND ATTACHMENTS OF ALL EQUIPMENT TO BE INSTALLED AS A PART OF THIS PROJECT SHALL BE DETAILED ON CONSTRUCTION DOCUMENTS. THOSE EXEMPTED BY THE 2022 CBC SECTION 1617A. EQUIPMENT SUPPORTS AND ATTACHMENTS SHALL BE APPROVED BY THE APPROPRIATE REGISTERED DESIGN PROFESSIONAL (RDP) AND OSHD AS A PART OF FIELD REVIEW/OBSERVATIONS. THE INSPECTOR OF RECORD (IOR) SHALL ASSURE THAT THE ABOVE REQUIREMENTS ARE ENFORCED.
33. ELECTRICAL DRAWINGS ARE DIAGRAMMATIC. AS SUCH, ALL ELECTRICAL EQUIPMENT LOCATIONS, CONDUIT ROUTING, ETC. ARE NOT PRECISE AND SHALL BE COORDINATED, VERIFIED, AND DETERMINED IN THE FIELD. EC TO INSTALL ALL ELECTRICAL EQUIPMENT AND ROUTE ALL CONDUITS IN LOCATIONS WHICH MEET CODE REQUIREMENTS FOR ACCESSIBILITY/MOUNTING AND DO NOT INTERFERE WITH ANY BUILDING STRUCTURES, UTILITIES, OR OTHER TRADE EQUIPMENT.
34. ALL EXISTING SITE RELATED ELECTRICAL EQUIPMENT (I.E. UNDERGROUND UTILITIES, DUCTS, STRUCTURES, PULL BOXES, ETC.) LOCATIONS ARE DIAGRAMMATIC IN NATURE AND ONLY REFLECT APPROXIMATE LOCATIONS, QUANTITIES, AND/OR ROUTING INFORMATION. ALL REFERENCED INFORMATION HAS EITHER BEEN SURVEYED, REPORTED BY THE OWNER/ OWNERS REP, AND/OR REFERENCED ON AN AS-BUILT RECORD DOCUMENTS. ALL EXISTING ELECTRICAL EQUIPMENT REFERENCED ON THESE DRAWINGS IS TO BE FIELD VERIFIED BY THE CONTRACTOR PRIOR TO COMMENCEMENT OF WORK. BY ACCEPTING THESE PLANS OR PROCEEDING WITH ELECTRICAL SCOPE OF WORK, AGREES TO ACCEPT LIABILITY AND SHALL RENDER THE ENGINEER OF RECORD HARMLESS FOR ANY ELECTRICAL EQUIPMENT NOT REPORTED TO THE ENGINEER DURING THE DESIGN PROCESS. THE CONTRACT TO TAKE THE REQUIRED PRECAUTIONARY MEASURES TO ENSURE ALL EXISTING ELECTRICAL EQUIPMENT IS PROTECTED IN PLACE.
35. ANY EXISTING BUILDING STRUCTURES OR SURFACES DAMAGED BY DEMOLITION OR DURING INSTALLATION ACTIVITIES SHALL BE REPAIRED, PATCHED, AND/OR REFINISHED TO THE SATISFACTION OF THE OWNER.
36. ALL EXISTING ELECTRICAL EQUIPMENT INDICATED TO BE DEMOLISHED SHALL BE REMOVED ENTIRELY AND ALL AFFECTED SURFACES OR STRUCTURES SHALL BE REPAIRED, REPLACED, AND/OR REFINISHED TO MATCH THE ADJACENT SURFACES OR DAMAGED ITEMS(S).
37. FOR CLARITY ONLY RECONSTRUCTION OR NEW WORK RELATED ELEMENTS AND SELECT EXISTING FACILITIES SPECIFICALLY REQUIRING COORDINATION WITH ANY NEW WORK.
38. ALL CONDUITS, BOXES, SURFACE MOUNTED RACEWAYS, SUPPORT DEVICES, AND ASSOCIATED FITTINGS SHALL BE MOUNTED IN CONCEALED LOCATIONS ABOVE CEILINGS, DUCTS, TRUSSES, BEAMS, ETC. IN AREAS WHERE A CONCEALED MOUNTING LOCATION IS NOT AVAILABLE EQUIPMENT SHALL BE PAINTED TO MATCH THE ADJACENT SURFACES.
39. ANY PENETRATIONS BY CONDUITS OR OTHER ELECTRICAL EQUIPMENT THROUGH A FIRE RATED WALL - WHETHER EXISTING OR NEW - SHALL MAINTAIN THE APPROPRIATE FIRE RATING BY SEALING THE PENETRATION WITH THE APPROPRIATE UL-LISTED FIRE-STOP MATERIAL/SYSTEM.
40. CONTRACTOR TO INCLUDE IN BASE BID INSTALLATION OF A MINIMUM OF 24" OF LIQUID-TITE FLEXIBLE CONDUIT BEING INSTALLED ON ALL CONDUITS AT THE ENTRANCE TO ALL SWITCHGEAR, GENERATOR, TRANSFORMERS, PANELBOARDS AND OTHER ELECTRICAL EQUIPMENT, AS WELL AS THE TRANSITION FROM LIQUID-TITE TO EMT.
41. ALL WORK ON EMERGENCY EQUIPMENT IS TO BE PERFORMED LIVE. CONTRACTOR IS RESPONSIBLE FOR INCLUDING ALL REQUIRED COSTS, EQUIPMENT PERMITS, AUTHORIZATIONS, ETC. AS REQUIRED TO PERFORM THE WORK HOT.
42. PROVIDE ARC FLASH LABELING AS REQUIRED PER 110.16.

ABBREVIATIONS

Table of abbreviations for electrical symbols and materials. Includes categories like LPS, MAX, MFC, MOCP, MCB, MLC, etc. with their corresponding full names.

POWER SYMBOLS

- DUPLX RECEPTACLE, MOUNTING HEIGHT PER ADA DEVICE MOUNTING REQUIREMENTS OR AS NOTED. "TV" ADJACENT TO DEVICE INDICATES RECEPTACLE IS TO BE MOUNTED AT 96" (OR HEIGHT REFERENCED). COORDINATE LOCATIONS AND MOUNTING REQUIREMENTS WITH SIGNAL DRAWINGS WHEN APPLICABLE.
DUPLX, GFCI RECEPTACLE, MOUNTING HEIGHT PER ADA DEVICE MOUNTING REQUIREMENTS OR AS NOTED. WP INDICATES WEATHERPROOF. REFER TO THE GENERAL PRODUCT SPECIFICATIONS.
WALL MOUNTED JUNCTION BOX, MOUNTING HEIGHT AS NOTED. 45DIP MINIMUM OR AS REQUIRED BY N.E.C.
JUNCTION BOX, MOUNTED IN ACCESSIBLE CEILING FOR APPLICATION DENOTED ON PLAN. 45DIP MINIMUM OR AS REQUIRED BY N.E.C.
SINGLE POLE SWITCHES, MOUNTING HEIGHT PER ADA DEVICE MOUNTING REQUIREMENTS. SUBSCRIPTS AT SYMBOL INDICATE THE FOLLOWING:
2 - DOUBLE POLE
3 - THREE WAY
4 - FOUR WAY
K - KEY OPERATED
LV - LOW VOLTAGE
P - PILOT LIGHT
R - REMOTE CONTROL
M - 20A MOTOR RATED START SWITCH WITH THERMAL OVERLOAD PROTECTION
NOTE: ALL WALL SWITCHES CONTROLLING EMERGENCY CIRCUITS SHALL BE ENGRAVED WITH "EMERGENCY"

NOTE: PROVIDE AND INSTALL ONLY HEAVY DUTY HOSPITAL GRADE TAMPER RESISTANT DEVICES AND EQUIPMENT SUITABLE FOR USE AND INSTALLATION IN A BEHAVIORAL HEALTH FACILITY. ALL COVER PLATES FOR LIGHTING SWITCHES, J-BOXES, RECEPTACLES, ETC. ARE TO BE CONSTRUCTED OF STAINLESS STEEL ANTI-MICROBIAL AND ANTI-MRSA FINISHES.

NOTE: ALL LIFE SAFETY AND CRITICAL FEEDER/BRANCH CIRCUITS WILL NEED TO BE MECHANICALLY PROTECTED TO COMPLY WITH CEC 517.30(C)(3).

BRANCH CIRCUIT SYMBOLS

- HOME RUN TO PANEL, LETTER DESIGNATES PANEL, NUMBERS INDICATE CIRCUITS AND NUMBER OF CONDUCTORS IN CONDUIT RUN. PROVISION FOR 2"X12 AWG, 1/12" MINIMUM UNLESS OTHERWISE NOTED.
CONDUIT STUB OUT, CAP. MARK AND RECORD ON AS-BUILT DRAWINGS.
CONDUIT CONTINUATION.
FLEXIBLE CONNECTION AS REQUIRED. NUMBER OF CONDUCTORS AS REQUIRED. VERIFY CONNECTION REQUIREMENTS WITH MANUFACTURER PRIOR TO ROUGH-IN.
CONDUIT/ BRANCH CIRCUIT/FEEDER CONTINUATION DOWN WALL TO FLOOR BELOW
CONDUIT/ BRANCH CIRCUIT/FEEDER CONTINUATION UP WALL TO FLOOR ABOVE

ANNOTATIONS

- MECHANICAL EQUIPMENT CALLOUT. "AC" INDICATES UNIT TYPE AND "2" INDICATES UNIT NUMBER. REFER TO MECHANICAL DRAWINGS FOR EXACT LOCATION AND ELECTRICAL REQUIREMENTS.
DETAIL CALLOUT. "3" INDICATES DETAIL NUMBER "E-1" INDICATES SHEET NUMBER.
LIGHTING FIXTURE DESIGNATION
PLAN NOTE REFERENCE, REFER TO NOTES ON SHEET, OR AS DIRECTED.
REVISION REFERENCE.
WYE CONFIGURATION
GROUND

PIPING, DUCTWORK AND ELEC. DIST. SYSTEM BRACING NOTE

PIPING, DUCTWORK, AND ELECTRICAL DISTRIBUTION SYSTEMS SHALL BE BRACED TO COMPLY WITH THE FORCES AND DISPLACEMENTS PRESCRIBED IN ASCE 7 CHAPTER 13 AS DEFINED IN ASCE 7-16 SECTION 13.6, AND 2022 CBC, SECTIONS 1613A AND 1617A.

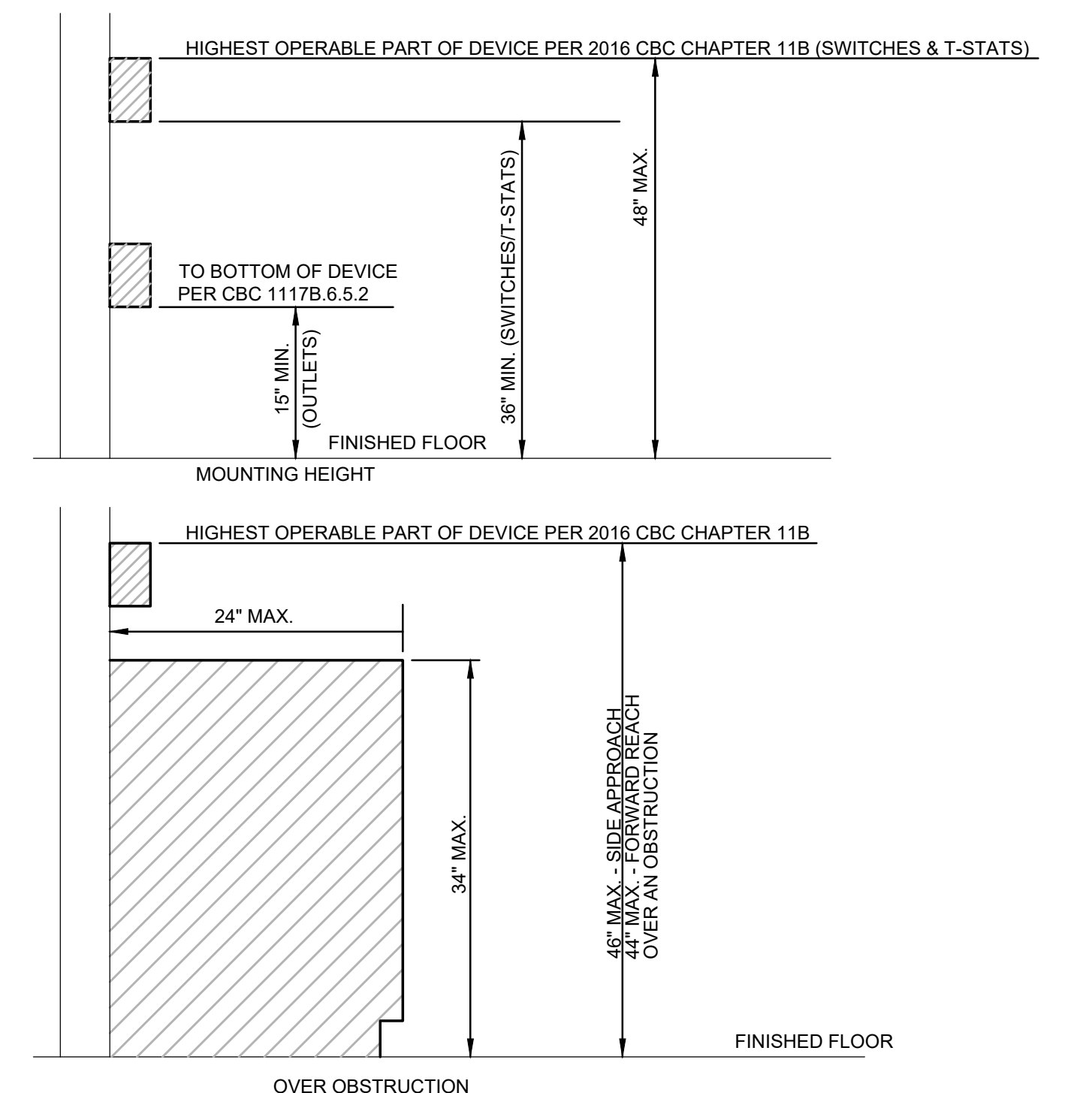
THE METHOD OF SHOWING BRACING AND ATTACHMENTS TO THE STRUCTURE FOR THE IDENTIFIED DISTRIBUTION SYSTEM ARE AS NOTED BELOW. WHEN BRACING AND ATTACHMENTS ARE BASED ON A PRE-APPROVED INSTALLATION GUIDE (E.G. OSHPD OPM), COPIES OF THE BRACING SYSTEM INSTALLATION GUIDE OR MANUAL SHALL BE AVAILABLE ON THE JOBSITE PRIOR TO THE START OF AND DURING THE HANGING AND BRACING OF THE DISTRIBUTION SYSTEMS. THE STRUCTURAL ENGINEER OF RECORD SHALL VERIFY THE ADEQUACY OF THE STRUCTURE TO SUPPORT THE HANGER AND BRACE LOADS.

MECHANICAL PIPING (MP), MECHANICAL DUCTS (MD), PLUMBING PIPING (PP), ELECTRICAL DISTRIBUTION SYSTEMS (E);
OPTION 1: DETAILED ON THE APPROVED DRAWINGS WITH PROJECT SPECIFIC NOTES AND DETAILS
OPTION 2: SHALL COMPLY WITH THE APPLICABLE OSHPD PRE-APPROVAL (OPM #) 0043 OR 0052

ALL CONDUITS 3" AND LARGER ARE TO BE SEISMICALLY BRACED/ANCHORED. CONTRACTOR TO REFER TO STRUCTURAL DRAWINGS FOR ANCHORAGE DETAILS AND REQUIREMENTS.

SEISMIC BRACING NOTES FOR DEFERRED SUBMITTALS

- 1. SUPPORT AND BRACING FOR CONDUIT INSTALLED WITH THIS SCOPE OF SERVICES IS TO BE PROVIDED AND INSTALLED PER OPM-0043 MASON SEISMIC RESTRAINT COMPONENTS FOR SUSPENDED UTILITIES OR OTHER APPROVED OSHPD OPM.
2. LAYOUT DRAWINGS IDENTIFYING/DEMONSTRATING THE BRACING/SUPPORT LOCATIONS AND REFERENCES TO DETAILS FROM THE RELEVANT OSHPD PRE-APPROVALS ARE TO BE SUBMITTED FOR USE BY THE INSPECTOR OF RECORD AND OSHPD FIELD STAFF. THE LAYOUT DRAWINGS ARE TO BE PREPARED BY THE SUBCONTRACTOR AND SIGNED BY A LICENSED STRUCTURAL ENGINEER PER ASCE 7 CHAPTER 13 AS MODIFIED BY 2022 CBC SECTIONS 1613A AND 1617A. REFERENCES TO DETAILS FROM THE OSHPD PRE-APPROVAL ARE TO BE FOR AN ENTIRE DETAIL AS SUBMITTED OR REFERENCE ARE TO BE PREPARED FOR EACH ASPECT OF A SUBMITTED DETAIL. CUSTOM DETAILS ARE TO BE PROVIDED FOR SITUATIONS WHERE OSHPD PRE-APPROVALS DO NOT APPLY. AT LEAST 4-WEEKS PRIOR TO BEGINNING INSTALLATION FOUR COPIES OF THE PLANS ARE TO BE SUBMITTED TO THE ARCHITECT OF RECORD WHO WILL SUBMIT THEM TO THE STRUCTURAL ENGINEER OF RECORD FOR REVIEW AND APPROVAL. AFTER THIS APPROVAL DRAWINGS WILL BE SUBMITTED TO THE OSHPD DISTRICT STRUCTURAL ENGINEER FOR REVIEW AND APPROVAL. THE PLANS SHALL BE COORDINATED WITH THE PLANS AND OTHER TRADES. A COPY OF THE CHOSEN BRACING SYSTEM INSTALLATION GUIDE/MANUAL IS REQUIRED TO BE ON THE JOBSITE PRIOR TO THE START OF INSTALLATION.
3. THE STRUCTURAL ENGINEER WILL DETERMINE THE APPROPRIATE SEISMIC FORCES BASED ON THE DESIGN CRITERIA INCLUDED IN THE STRUCTURAL DRAWINGS.
4. ONCE THE LOCATIONS OF ALL CONDUIT HAVE BEEN ESTABLISHED, THE STRUCTURAL ENGINEER MUST CHECK THE ADEQUACY OF THE SUPPORTING STRUCTURE TO ENSURE THAT THE ORIGINAL DESIGN IS STILL ADEQUATE. THE INSPECTOR OF RECORD IS TO ENSURE THAT ALL WORK IS PROPERLY INSTALLED PER THE APPLICABLE OSHPD PRE-APPROVAL.



FIRE RATED PENETRATION DETAIL (TYP.) 02

ADA DEVICE MOUNTING DETAIL 01

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APP: 04-122083 INC.
REVIEWED FOR:
DATE: 10/18/2023

WESTGROUP
DESIGNS

1900 MacArthur Boulevard | Suite 1000
Irvine | California | 92612
949.250.0880 | FAX 949.250.0882
www.westgroupdesigns.com

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AG Design Inc.
Consulting Electrical Engineers
714.769.9900
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2020 W Chaugwood Ave Suite 105 | Orange, CA 92668

PARK VIEW PREP.
SCHOOL OF 21ST
CENTURY LEARNING
VICTOR
ELEMENTARY
SCHOOL DISTRICT
13427 CAHUENGA RD.
VICTORVILLE, CA 92395

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SHEET TITLE:
ELECTRICAL GENERAL
NOTES & SYMBOLS LIST

SHEET NUMBER:
E001

WD PROJ. # DRAWN BY: CHECKED DATE
DL, AM GM 03/27/23

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