

visions	Date
CITY COMMENTS	5/22/24

KEYNOTES

DESCRIPTION
MFR: USG INTERIORS, PARALINE PLUS LINEAR METAL SYSTEM, 7" WIDE, COLOR: WALNUT (3472), CARRIER: FLAT CHANNEL SYSTEM, ACCESSORIES: SNAP LOCK REVEAL INSERTS AND PERIMETER SHADOW MOLDING LINEAR METAL INTERIOR CEILING SYSTEM, SEE INTERIOR FINISH SCHEDULE
22"x30" MIN. CEILING ACCESS DOOR, KIT BY CEILING SYSTEM MFR. TO MATCH ADJACENT APPLICATION
EXPOSED STEEL LOOKOUT, SEE EXTERIOR ELEVATIONS
SHEET METAL HVAC DUCTWORK, COORDINATE WITH ALL TRADES OPENINGS AND DUCT PATH, SEE MECHANICAL DRAWINGS
ROOF ACCESS HATCH ABOVE WITH 3'-2"Dx2'-8"W FRAMED OPENING WITH WALL AND FLOOR ATTACHED LADDER
ELECTRIC POWER DROP FROM STRUCTURE ABOVE TO FINISH FLOOR, SEE ELECTRICAL DRAWINGS
DISPATCH SYSTEM MESSAGE REMOTE HOUSING SUSPENDED FROM STRUCTURE ABOVE, CENTER IN ROOM, SEE DETAIL 6/A5.11
EXPOSED STEEL PLATE HEADER, SEE STRUCTURAL DRAWINGS
NO NOTE
WALL MOUNTED MECHANICAL SYSTEM, SEE MECHANICAL DRAWINGS
OPENING IN FINISHED CEILING / STRUCTURE FOR ROOF DRAIN LEADERS
MECHANICAL LOUVER, SEE MECHANICAL DWGS
PENDANT LIGHT FIXTURE AT APPARATUS BAY TYP. OF 8, SEE ELECT. DRAWINGS

signed By:
T / GA

own By:
A / RS

checked By:
A / TA

CP LEGEND

BOL	DESCRIPTION
●	LED DOWN LIGHT FIXTURE
○	VAPOR TIGHT DOWN LIGHT FIXTURE
—	T-BAR LED MODULE LIGHT FIXTURE
□	2' x 2' TROFFER LIGHT FIXTURE
○	BAY PENDANT LED LIGHT FIXTURE
□	CHAIN HUNG LIGHT FIXTURE
○	WALL MOUNTED LIGHT FIXTURES
—	CEILING FAN WITH LIGHT (NON-REMOTE) SEE DETAIL 19/A5.11
○	SPEAKER AT CEILING/WALL
—	DISPATCH WALL SIGN
□	SUPPLY AIR GRILLE
□	RETURN AIR GRILLE
□	EXHAUST FAN GRILLE
—	SIDE WALL SUPPLY AIR GRILLE
—	SIDE WALL RETURN AIR GRILLE
○	EXIT LIGHT
.	REFER TO ELECTRICAL DRAWINGS FOR LOCATION OF FIRE ALARM DEVICES NOT SHOWN
—	2' x 2' LAY-IN ACOUSTICAL PANELS AND CEILING SUSPENSION SYSTEM WITH HANGER, WIRE TO STRUCTURE ABOVE, SEE DETAIL 7/A5.11
□	GYPSUM BOARD: INTERIOR, FINISH AS SCHEDULED

GENERAL NOTES

- NOTIFY THE ARCHITECT OF ANY DISCREPANCIES PRIOR TO BEGINNING WORK. REFER TO FIRE ALARM DRAWINGS FOR LOCATION OF FIRE ALARM DEVICES NOT SHOWN.

REFER TO FIRE PROTECTION DRAWINGS FOR LOCATION OF SPRINKLER HEADS NOT SHOWN.

CEILING AND WALL FINISHES SHALL BE CLASSIFIED IN ACCORDANCE WITH ASTM 84.

DESIGN AND INSTALL STANDARDS USED FOR ACOUSTICAL CEILINGS SYSTEMS PER 2018 IBC SECTION 803.13 AND 808.

REFER TO ELECTRICAL DRAWINGS FOR LIGHT FIXTURE TYPE, LAMPS AND SWITCHING.

REFERENCED HEIGHTS AND CEILING HEIGHTS ARE FROM FINISH FLOOR ELEVATION 0'-0".

MECHANICAL, PLUMBING AND ELECTRICAL EQUIPMENT/SUPPORTS ARE NOT TO BE HUNG DIRECTLY FROM THE ROOF DECK ABOVE. SEE STRUCTURAL DRAWINGS FOR SUPPORT REQUIREMENTS.

y of Phoenix City Code Chapter 2, section 2-28, these plans
official use only and may not be shared with others except as
d to fulfill the obligations of your contract with the City of
x.

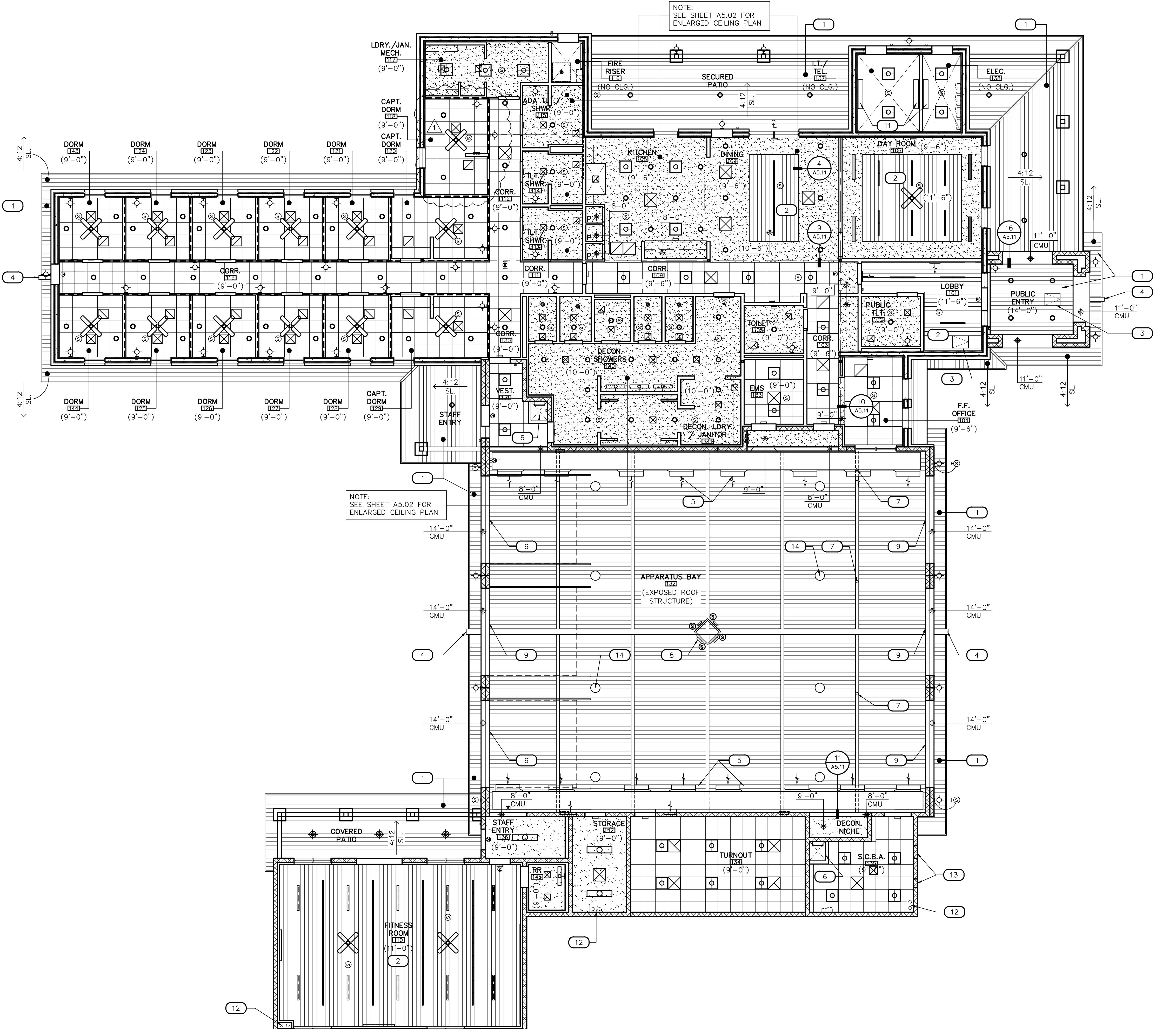
The logo is a black silhouette of a phoenix rising from a circular base, symbolizing rebirth and renewal.

WA # 23-1810
DEV # 2300473

**FLECTED CEILING
PLAN**

A5.01

35 of 153



REFLECTED CEILING PLAN

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

1

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35 of 153



EXPIRES: 12-31-2024

Designed By:
ET / GADrawn By:
TA / RSChecked By:
GA / TADate:
12/14/2023Phase:
PERMIT

Perlman
Architects of Arizona
2929 North Central Avenue, Suite # 600
Phoenix, Arizona 85012
480.951.5900
perlmanaz.com

Title:
FIRE STATION #74
1910 W. CHANDLER BLVD.
PHOENIX, ARIZONA 85045
Index No.: FD57100020-3

KIVA # 23-1810
SDEV # 2300473

ENLARGED RCP

A5.02**KEYNOTES**

#	DESCRIPTION
1	MFR: USG INTERIORS, PARLINE PLUS LINEAR METAL SYSTEM, 7" WIDE, COLOR: WALNUT (3472), CARRIER: FLAT CHANNEL SYSTEM, ACCESSORIES: SNAP LOCK REVEAL INSERTS AND PERIMETER SHADOW MOLDING
2	LINEAR METAL INTERIOR CEILING SYSTEM, SEE INTERIOR FINISH SCHEDULE
3	22"X30" MIN. CEILING ACCESS DOOR, KIT BY DREWING SYSTEM MFR. TO MATCH ADJACENT APPLICATION
4	EXPOSED STEEL LOOKOUT, SEE EXTERIOR ELEVATIONS
5	SHEET METAL HVAC DUCTWORK, COORDINATE WITH ALL TRADES OPENINGS AND DUCT PATH, SEE MECHANICAL DRAWINGS
6	ROOF ACCESS HATCH ABOVE WITH 3'-2"DX2'-8"W FRAMED OPENING WITH WALL AND FLOOR ATTACHED LADDER
7	ELECTRIC POWER DROP FROM STRUCTURE ABOVE TO FINISH FLOOR, SEE ELECTRICAL DRAWINGS
8	DISPATCH SYSTEM MESSAGE REMOTE HOUSING SUSPENDED FROM STRUCTURE ABOVE, CENTER IN ROOM, SEE DETAIL 6/A5.11
9	EXPOSED STEEL PLATE HEADER, SEE STRUCTURAL DRAWINGS
10	WALL MOUNTED MECHANICAL SYSTEM, SEE MECHANICAL DRAWINGS
11	OPENING IN FINISHED CEILING / STRUCTURE FOR ROOF DRAIN LEADERS
12	MECHANICAL LOUVER, SEE MECHANICAL DWGS
13	PENDANT LIGHT FIXTURE AT APPARATUS BAY TYP. OF 8, SEE ELECT. DRAWINGS
14	

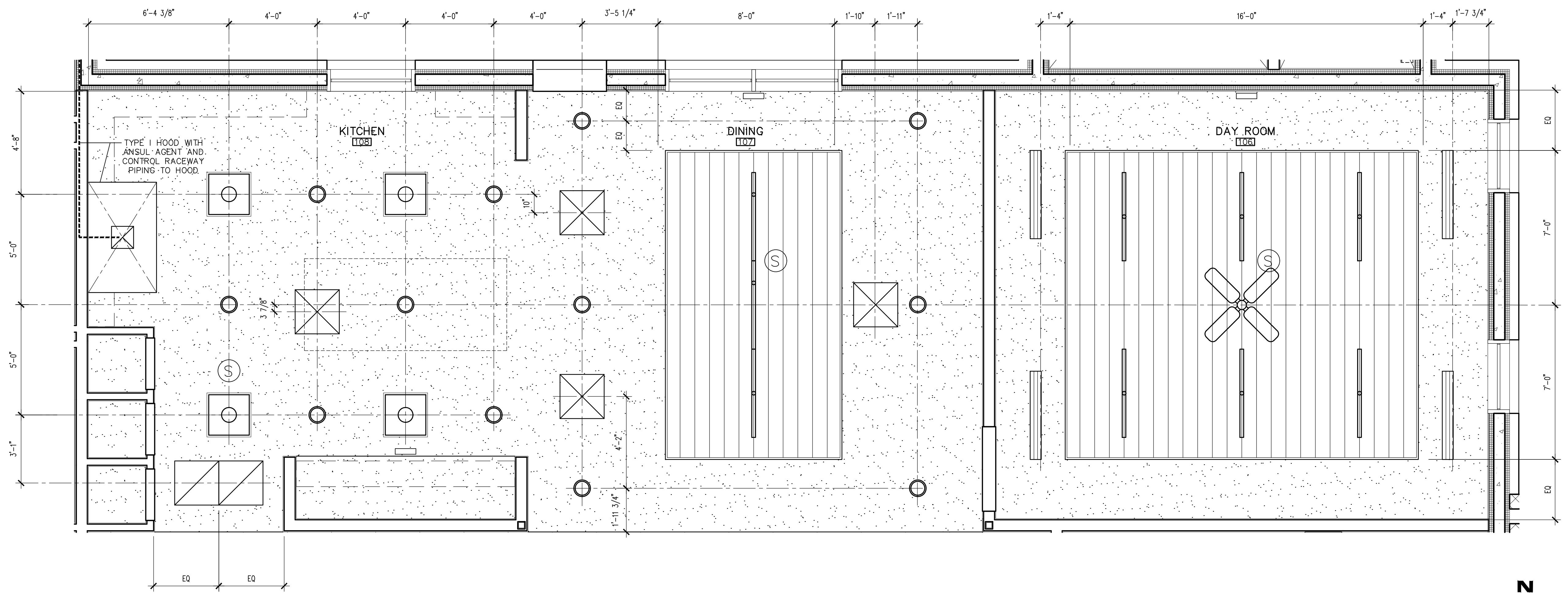
RCP LEGEND

SYMBOL	DESCRIPTION
○	LED DOWN LIGHT FIXTURE
○	VAPOR TIGHT DOWN LIGHT FIXTURE
—	T-BAR LED MODULE LIGHT FIXTURE
□	2' x 2' TROFFER LIGHT FIXTURE
○	BAY PENDANT LED LIGHT FIXTURE
—	CHAIN HUNG LIGHT FIXTURE
◇	WALL MOUNTED LIGHT FIXTURES
X	CEILING FAN WITH LIGHT (NON-REMOTE) SEE DETAIL 19/A5.11
⑤	SPEAKER AT CEILING/WALL
□	DISPATCH WALL SIGN
□	SUPPLY AIR GRILLE
□	RETURN AIR GRILLE
□	EXHAUST FAN GRILLE
—	SIDE WALL SUPPLY AIR GRILLE
—	SIDE WALL RETURN AIR GRILLE
●	EXIT LIGHT
1.	REFER TO ELECTRICAL DRAWINGS FOR LOCATION OF FIRE ALARM DEVICES NOT SHOWN
□	2' x 2' LAY-IN ACOUSTICAL PANELS AND CEILING SUSPENSION SYSTEM WITH HANGER, WIRE TO STRUCTURE ABOVE, SEE DETAIL 7/A5.11
□	GYPSUM BOARD: INTERIOR, FINISH AS SCHEDULED

GENERAL NOTES

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- REFER TO FIRE PROTECTION DRAWINGS FOR LOCATION OF SPRINKLER HEADS NOT SHOWN.
- CEILING AND WALL FINISHES SHALL BE CLASSIFIED IN ACCORDANCE WITH ASTM 84.
- DESIGN AND INSTALL STANDARDS USED FOR ACOUSTICAL CEILINGS SYSTEMS PER 2018 IBC SECTION 803.13 AND 808.
- REFER TO ELECTRICAL DRAWINGS FOR LIGHT FIXTURE TYPE, LAMPS AND SWITCHING.
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Note:
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**1 ENLARGED REFLECTED CEILING PLAN**

SCALE: 3/8" = 1'-0"

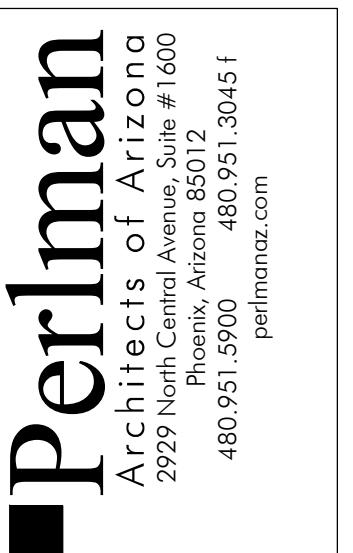
FLOR-RCP-ENLRG

EQ EQ EQ EQ

EQ EQ



Designed By:	CR / PN
Drawn By:	CR / PN
Checked By:	GJJ
Date:	12/14/2023
Phase:	PERMIT



Title: FIRE STATION #74
1910 W. CHANDLER BLVD.
PHOENIX, ARIZONA 85045
Index No.: FD571000020-3



KIVA # 23-1810
SDEV # 2300473

MECHANICAL NOTES

M1.01

HVAC SYMBOLS AND ABBREVIATIONS			
SINGLE LINE	DOUBLE LINE	DESCRIPTION	ABBR.
		NEW RECTANGULAR DUCTWORK (SUPPLY, RETURN, EXHAUST, RELIEF) REFER TO PLANS FOR SIZE	-
		TRANSITION	-
		NEW ROUND OR OVAL DUCTWORK (SUPPLY, RETURN, EXHAUST, RELIEF) REFER TO PLANS FOR SIZE	-
		EXISTING DUCTWORK	-
		45 DEG. TAP AT BRANCH DUCTS	-
		DUCT SPLIT WITH DAMPER: USE AT ELBOWS, TEES, AND WHERE INDICATED PER SMACNA (LATEST EDITION)	-
		CURVED ELBOW-MINIMUM RADIUS R: 1.5 WIDTH PER SMACNA (LATEST EDITION)	-
		90 DEG. ELBOW WITH SINGLE RADIUS TURNING VANES (RADIUS HEEL ALLOWED FOR DUCT 12x12" AND SMALLER)	-
		FLEXIBLE DUCT CONNECTION	FLEX
		VOLUME DAMPER WITH LOCKING QUADRANT	VD
		SPIN-IN FLEX DUCT TAKE-OFF WITH VOLUME DAMPER (UNLESS NOTED OTHERWISE IN AIR DEVICE SCHEDULE)	-
		SPLITTER DAMPER WITH LOCKING QUADRANT	S&Q
		SUPPLY AIR 3-WAY 2-WAY 1-WAY	SA
		EXHAUST AIR	EXH
		RETURN AIR	RA
		RELIEF AIR	REL
		OUTSIDE AIR	OSA
		CONNECTION OF NEW WORK TO EXISTING	P.O.C.
-	-	TRANSFER AIR	TA
-	-	EXHAUST REGISTER	ER
-	-	ABOVE FINISHED FLOOR	AFF
-	-	BELLOW FINISHED FLOOR	BFF
-	-	NOT TO SCALE	NTS
(S)	(S)	SENSOR	S
(T)	(T)	THERMOSTAT	T
		FIRE DAMPER	FD
		COMBINATION FIRE AND SMOKE DAMPER	CFSD
		DUCT MOUNTED SMOKE DETECTOR	SD
		FIRE STAT (REFER TO SPECIFICATIONS FOR TEMP)	-
		OUTSIDE AIR TEMPERATURE SENSOR	-
		DOOR UNDERCUT (WITH SIZE)	-
(E)	(E)	EXISTING	-
(R)	(R)	RELOCATED	-
BDD	BDD	BACK DRAFT DAMPER (ARROW DENOTES DIRECTION OF AIR FLOW)	BDD

HVAC ABBREVIATIONS			
ABBREVIATION	DESCRIPTION		
CD	CEILING DIFFUSER		
RG	RETURN GRILLE		
EG	EXHAUST GRILLE		
SD	SUPPLY DIFFUSER		
TG	TRANSFER GRILLE		
BDD	BACK DRAFT DAMPER		
AFF	ABOVE FINISHED FLOOR		
BFF	BELOW FINISHED FLOOR		
WG	WAVE GUIDE VENT (RF SHEILDING)		
MP	MEDIUM PRESSURE		
OSA	OUT SIDE AIR		
EF	EXHAUST FAN		
AHU	AIR HANDLING UNIT		
FCU	FAN COIL UNIT		
WSHP	WATER SOURCE HEAT PUMP		
CU	CONDENSING UNIT		
HP	HEAT PUMP (PACKAGED)		
LD	LINEAR DIFFUSER		
OBD	OPPOSED BLADE DAMPER		
A.P.	ACCESS PANEL (COORDINATE WITH ARCH)		

AIR DEVICE SCHEDULE												
DEVICE SYMBOL	DESCRIPTION	MANUFACTURER	MODEL	DEVICE SIZE	NECK SIZING		COLOR	MATERIAL	DAMPER	NC MAX	FRAME TYPE	NOTES
					CFM RANGE	NECK SIZE						
	CEILING DIFFUSER CD-1	TITUS	OMNI	24x24"	0-199	8"	PER ARCH.	STEEL	-	30	-	-PROVIDE AND INSTALL WITH GYP. OR LAY-IN FRAME TO MATCH CEILING TYPE OF INTENDED LOCATION. USE RAPID MOUNT FRAME FOR ACCESS TO DUCT BALANCING DAMPER WHERE LOCATED IN GYP.
	CEILING DIFFUSER CD-3	TITUS	OMNI-A	24x24"	200-399	10"	PER ARCH.	STEEL	-	30	-	-ALL ALUMINUM WHERE CONNECTED TO EVAPORATIVE COOLED SYSTEMS.
	CEILING DIFFUSER CD-2	TITUS	MCD	12x12"	400-599	12"	PER ARCH.	STEEL	OBD	30	GYP.	
	SUPPLY GRILLE SG-1	TITUS	300FL	24x12"	600-899	14"	PER ARCH.	ALUM	OBD	30	DUCT	-PROVIDE AND INSTALL WITH 30° DEFLECTION DOWN.
	EXHAUST GRILLE EG-1	TITUS	350FL	36x16"	0-199	8"	PER ARCH.	ALUM	OBD	30	DUCT	-ALL ALUMINUM WHERE CONNECTED TO EVAPORATIVE COOLED SYSTEMS.
	RETURN GRILLE RG-1	TITUS	350	24x24"	200-399	10"	PER ARCH.	STEEL	-	30	CYP. OR LAY-IN	-PROVIDE AND INSTALL WITH GYP. OR LAY-IN FRAME TO MATCH CEILING TYPE OF INTENDED LOCATION. USE RAPID MOUNT FRAME FOR ACCESS TO DUCT BALANCING DAMPER WHERE LOCATED IN GYP.
	EXHAUST GRILLE EG-2	TITUS	MCD	12x12"	400-500	12"	PER ARCH.	STEEL	OBD	30	GYP.	
	EXHAUST GRILLE EG-3	TITUS	FL10	48" LENGTH WITH SINGLE 1" SLOT	600-900	14"	PER ARCH.	STEEL	-	30	GYP.	-PROVIDE WITH 48" FBPI-10 INSULATED PLENUM
	LINEAR DIFFUSER LD-1	TITUS	FL10	48" LENGTH WITH SINGLE 1" SLOT	0-199	8"	PER ARCH.	STEEL	-	30	GYP.	-PROVIDE WITH 48" FBPI-10 INSULATED PLENUM
	LINEAR RETURN LR-1	TITUS	FL10	48" LENGTH WITH SINGLE 1" SLOT	200-399	10"	PER ARCH.	STEEL	-	30	GYP.	-PROVIDE WITH 48" FBPI-10 INSULATED PLENUM
	SUPPLY GRILLE SG-2	TITUS	300RS	SEE NECK SIZING CHART	0-200	10x6"	PER ARCH.	STEEL	-	30	SURF.	
	EXHAUST GRILLE EG-3	TITUS	EGGCRATE	24x24"	201-400	12x8"	PER ARCH.	STEEL	-	30	LAY-IN	
	RETURN GRILLE RG-3	TITUS	350RS	SEE NECK SIZING CHART	401-600	18x8"	PER ARCH.	STEEL	-	30	SURF.	
					601-900	18x12"						
					0-199	8"						
					200-399	10"						
					400-500	12"						
					600-900	14"						
					0-200	10x6"						
					201-400	12x8"						
					401-600	18x8"						
					601-900	18x12"						

NOTE: PROVIDE AND INSTALL CABLE OPERATED BALANCE DAMPER WHERE DAMPER IS LOCATED ABOVE GYPSUM BOARD CEILING OR IS OTHERWISE INACCESSIBLE.

OSA VENTILATION CALCULATION															
ZONE	OCCUPANCY CATEGORY (PEOPLE/FT. ²)	TOTAL AREA (FT. ²)	O												

FIRE DEPARTMENT STATION 74 - PERMIT CITY SUBMITTAL

Revisions	Date
	3/10/24
ALL DUCTWORK FROM DORM ROOMS PENETRATING INTO THE CORRIDOR SHALL BE MIN. 26 GAUGE AND FIRE CAULKED.	
ALL CONNECTIONS INTO DORM ROOMS MUST PASS FROM THE CORR. (NO DUCT SHALL PENETRATE WALLS BETWEEN DORMS)-TYP.	
STACKED DUCTWORK RA OVER SA, EQUALLY SIZED.	
RUNOUT CONNECTS TO RA ABOVE (NOT SHOWN).-TYP.	
CONTRACTOR SHALL PROVIDE AND INSTALL NEW CLOTHES DRYER VENT UP TO NEW VENT CAP ON WALL, SIZED EQUAL TO DRYER VENT OUTLET ON UNIT. CONTRACTOR SHALL NOT USE ANY SHEET METAL SCREWS, WIRE, MIG, TIG, OR ANY OTHER METHOD OF FABRICATION THAT MAY HABIT THE FLOW OF AIR, FINAL POINT OF TERMINATION SHALL BE LOCATED MINIMUM 10'-0" FROM ALL OSA INTAKE OPENINGS. FIELD VERIFY, MAXIMUM LENGTH OF DRYER VENT SHALL BE INSTALLED IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTION, OR SHALL COMPLY WITH THE FOLLOWING:	
CONTRACTOR SHALL PROVIDE AND INSTALL A PERMANENT PLAQUE AT THE DRYER LOCATION STATING: "DRYER SHALL HAVE MAXIMUM LISTED DRYER VENT LENGTH OF 30 FEET WITH (2) 90° ELBOWS."	
DUCTWORK SHALL BE SMACNA STANDARD FOR 2" W/ INSULATED TO R6. LINE FIRST 15' WITH 1" ACOUSTIC LINER. DUCTWORK SHALL BE SIZED USING THE EQUAL FRICITION METHOD FOR .08 IN WG VELOCITY PRESSURE FOR SUPPLY AND .05 IN WG VELOCITY PRESSURE FOR RETURN.	
BALANCING DAMPERS ABOVE HARD-LID SHALL HAVE REMOTE, CABLE OPERATED DAMPERS.	
EVAP COOLER DUCT SHALL BE SMACNA RATED AL APPARATUS BAY EXHAUST SHALL BE SMACNA RATED GALV. PROVIDE AND INSTALL CAPPED CLEANOUT TEES AT ALL CONDENSATE 90° CHANGES IN DIRECTION, EXTEND TO ACCESSIBLE CEILING WHERE OCCURS OVER HARD LID.	
EVERY ATTEMPT HAS BEEN MADE TO SHOW BALANCING DAMPERS OVER ACCESSIBLE CEILINGS, IN SOME CASES THIS IS NOT POSSIBLE, WHERE BALANCING DAMPERS ARE LOCATED OVER HARD LID CEILINGS, PROVIDE AND INSTALL A REMOTE CABLE OPERATED BALANCING DAMPER FOR EACH REGISTER, COORDINATE LOCATION OF OPERATOR WITH ARCHITECT (AND STYLE OF OPERATOR) PRIOR TO PURCHASE AND INSTALLATION.	
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# KEYED NOTES:	
1. CEILING DIFFUSER CD-1 AT CFM SHOWN. REFER TO AIR DEVICE SCHEDULE AND NECK SIZING CHART FOR SIZE AND TYPE.	
2. RETURN GRILLE RG-1 AT CFM SHOWN. REFER TO AIR DEVICE SCHEDULE AND NECK SIZING CHART FOR SIZE AND TYPE.	
3. CEILING DIFFUSER CD-2 AT CFM SHOWN. REFER TO AIR DEVICE SCHEDULE AND NECK SIZING CHART FOR SIZE AND TYPE.	
4. CEILING DIFFUSER CD-3 AT CFM SHOWN. REFER TO AIR DEVICE SCHEDULE AND NECK SIZING CHART FOR SIZE AND TYPE.	
5. LINEAR DIFFUSER LD-1 AT CFM SHOWN. REFER TO AIR DEVICE SCHEDULE AND NECK SIZING CHART FOR SIZE AND TYPE.	
6. LINEAR RETURN LR-1 AT CFM SHOWN. REFER TO AIR DEVICE SCHEDULE AND NECK SIZING CHART FOR SIZE AND TYPE.	
7. EXHAUST GRILLE EG-2 AT CFM SHOWN. REFER TO AIR DEVICE SCHEDULE AND NECK SIZING CHART FOR SIZE AND TYPE.	
8. EXHAUST GRILLE EG-3 AT CFM SHOWN. REFER TO AIR DEVICE SCHEDULE AND NECK SIZING CHART FOR SIZE AND TYPE.	
9. SUPPLY GRILLE SG-2 AT CFM SHOWN. REFER TO AIR DEVICE SCHEDULE AND NECK SIZING CHART FOR SIZE AND TYPE.	
10. 24/7 PROGRAMMABLE THERMOSTAT PROVIDED AND INSTALLED BY MECHANICAL CONTRACTOR. TSTAT SHALL BE A/C UNIT MANUFACTURER'S RECOMMENDED MODEL, MOUNT 48" AFF TO TOP-MOS CONTROL.	
11. PROVIDE AND INSTALL BALANCING DAMPERS WITH REMOTE CABLE OPERATORS (ADJUSTER IN CEILING, TYPICAL FOR ALL BALANCE DAMPERS LOCATED ABOVE INACCESSIBLE CEILING SYSTEM). REF. DETAIL 9/M3.02.	
12. EVAPORATIVE COOLER THERMOSTAT WITH ON/OFF/TEMP.	
13. DRYER VENT FULL SIZE OF DRYER OUTLET OUT TO FACTORY DRYER VENT BOX AND DUCT OUT TO EXTERIOR WALL.	
14. 1-1/2" EVAP DRAIN DOWN IN WALL TO ELBOW OUT AND DOWN OVER MOP SINK. TERMINATE WITH 2" AIR GAP.	
15. 3/4" CD DOWN IN WALL TO ELBOW OUT AND DOWN OVER MOP SINK. TERMINATE WITH 2" AIR GAP.	
16. 3/4" EVAP DRAIN DOWN IN WALL TO ELBOW OVER SINK.	
17. 3/4" CD DOWN IN WALL TO LAVATORY TAIPiece.	
18. 10" TYPE 1 GREASE DUCT UP TO KITCHEN EXHAUST FAN. PROVIDE WITH 3M FIREMASTER GREASE DUCT WRAP (MIN. FOR 1 HOUR RATING).	
19. 16X8" EXHAUST LOUVER "GREENHECK" MODEL ESJ OR EQUIVALENT.	
20. 24X24" EXHAUST LOUVER "GREENHECK" MODEL ESJ OR EQUIVALENT.	
21. RETURN GRILLE RG-3 AT CFM SHOWN. REFER TO AIR DEVICE SCHEDULE AND NECK SIZING CHART FOR SIZE AND TYPE.	
22. EXHAUST GRILLE EG-3 AT CFM SHOWN. REFER TO AIR DEVICE SCHEDULE AND NECK SIZING CHART FOR SIZE AND TYPE.	
PROVIDE AND INSTALL ACCESSIBLE PLUGGED CLEANOUTS AT ALL 90° TURNS CONDENSATE LINES.	
PROVIDE A COPY OF A THIRD PARTY CERTIFIED AIR BALANCE TESTING REPORT TO THE CITY INSPECTOR PRIOR TO THE FINAL INSPECTION ON THE BUILDING. THE REPORT SHALL BE CONDUCTED BY A THIRD PARTY CERTIFIED TO CONDUCT AN AIR BALANCE AND APPROVED BY THE ENGINEER OR ARCHITECT OF RECORD. THE REPORT SHALL DEMONSTRATE THAT THE MECHANICAL SYSTEM WILL MEET THE DESIGN AIRFLOWS AS INDICATED ON THE MECHANICAL PLANS.	

Perman
Architects of Arizona
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Phoenix, Arizona 85012
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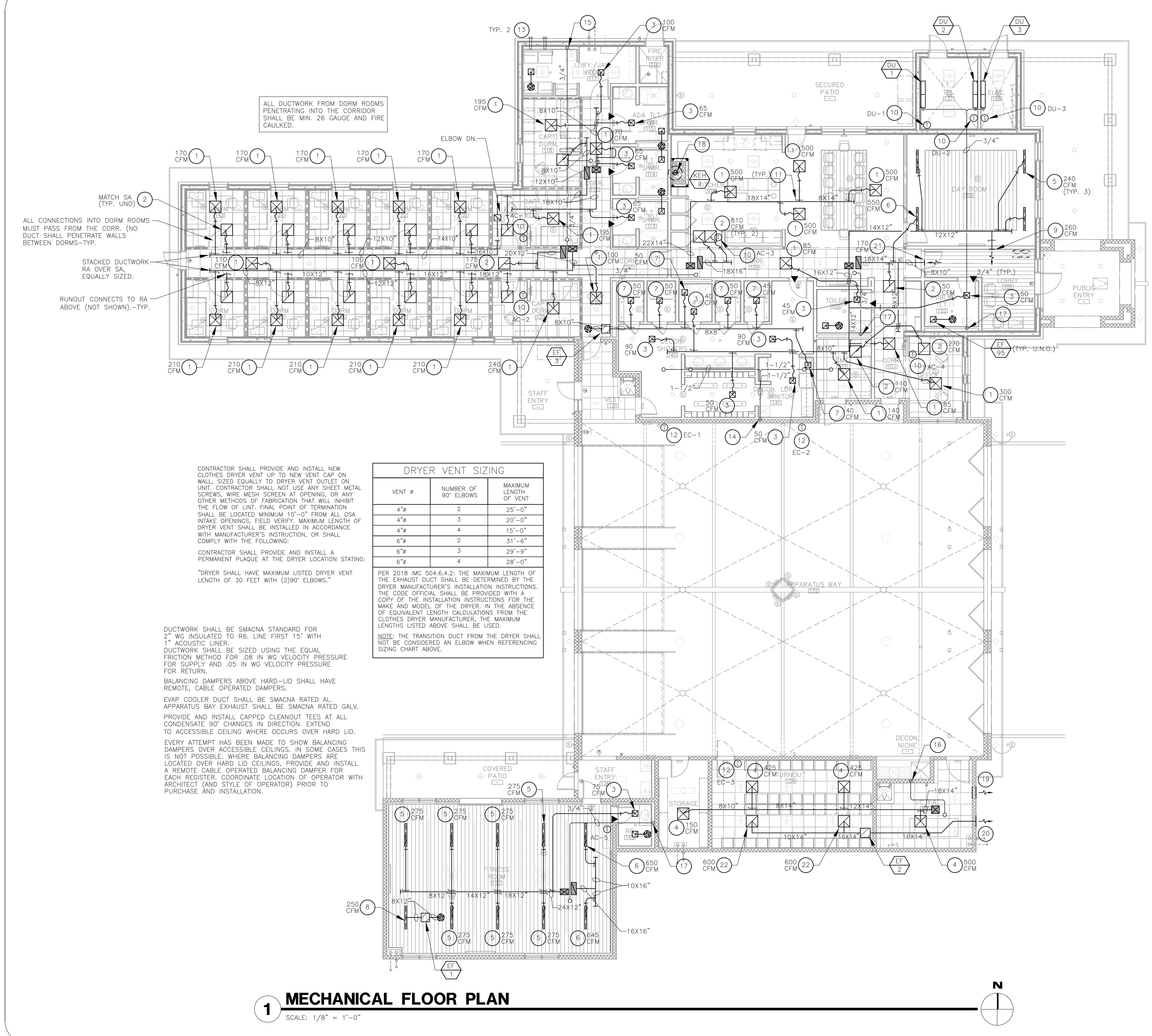


KIVA # 23-1810
SDEV # 2300473
MECHANICAL FLOOR PLAN
M2.01

CITY OF PHOENIX

1 MECHANICAL FLOOR PLAN

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



AME PROJECT #23-088	ASSOCIATED MECHANICAL ENGINEERS, PLLC 1121 W. Warner Rd., Suite 107 Tempe, AZ 85284 480.966.3996 Phone
Note: Per City of Phoenix City Code Chapter 2, section 2-28, these plans are for official use only and may not be shared with others except as required to fulfill the obligations of your contract with the City of Phoenix.	

Revisions	Date
△ CITY COMMENTS	3/10/24



Designed By:
CR / PN
Drawn By:
CR / PN
Checked By:
GJJ
Date:
12/14/2023
Phase:
PERMIT

Perman
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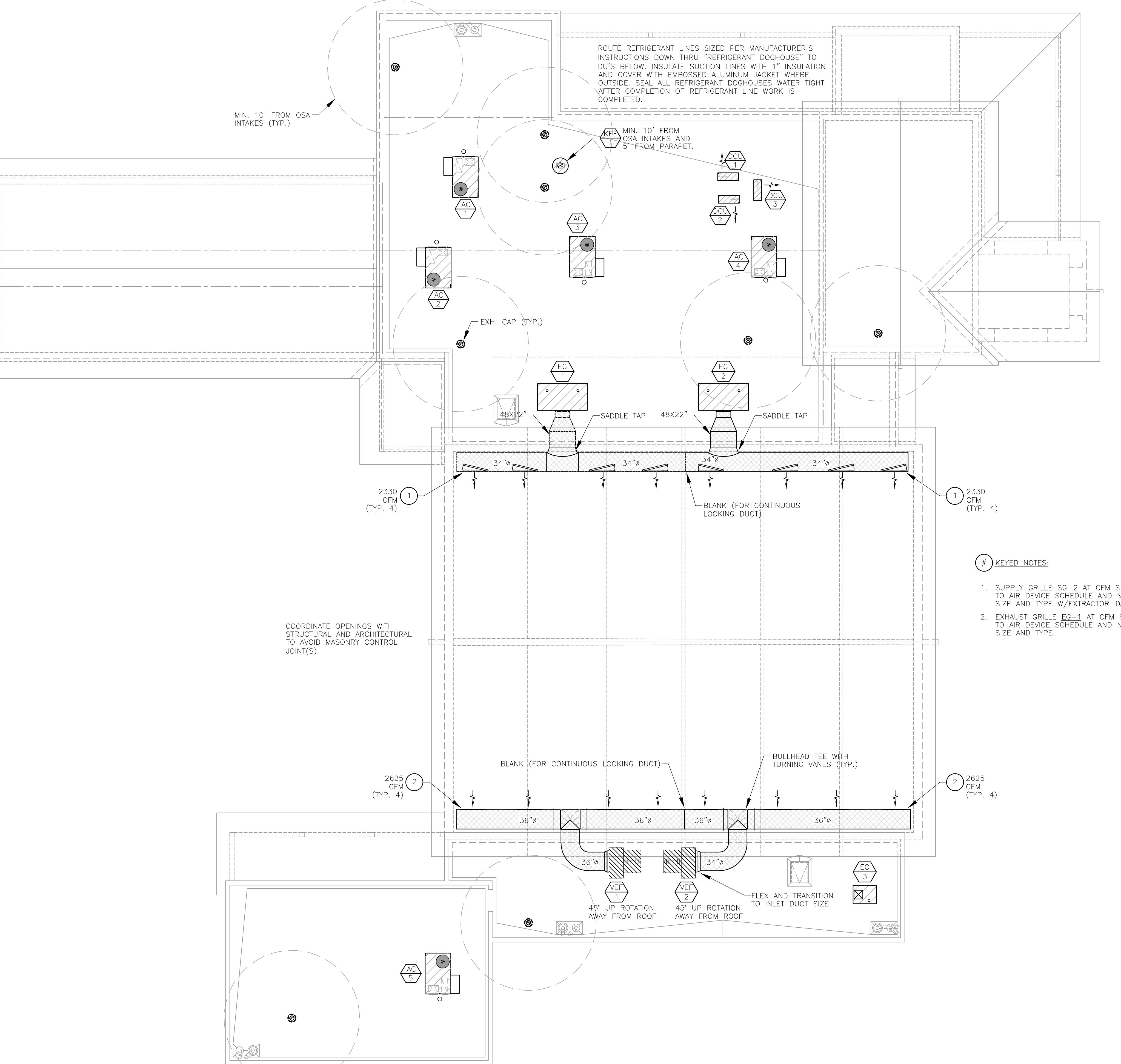
Title:
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1910 W. CHANDLER BLVD.
PHOENIX, ARIZONA 85045**
Index No.: FD57100020-3



KIVA # 23-1810
SDEV # 2300473

MECHANICAL ROOF PLAN

M3.01



1 MECHANICAL ROOF PLAN

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

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AME PROJECT #23-088	ASSOCIATED MECHANICAL ENGINEERS, PLLC 1121 W. Warner Rd., Suite 107 Tempe, AZ 85284 480.966.3996 Phone
Note: Per City of Phoenix City Code Chapter 2, section 2-28, these plans are for official use only and may not be shared with others except as required to fulfill the obligations of your contract with the City of Phoenix.	

CITY OF PHOENIX FIRE DEPARTMENT STATION 74 - PERMIT CITY SUBMITTAL

Revisions Date
 CITY COMMENTS 3/10/24

[Handwritten signature]
 GEORGE J.
 JOSEPHS
 12/14/2023
 Arizona, U.S.A.

Designed By: CR / PN
 Drawn By: CR / PN
 Checked By: GJJ
 Date: 12/14/2023
 Phase: PERMIT

Perman
 Architects of Arizona
 2929 North Central Avenue, Suite #1600
 Phoenix, Arizona 85012
 480.951.3045 f
 permanaz.com

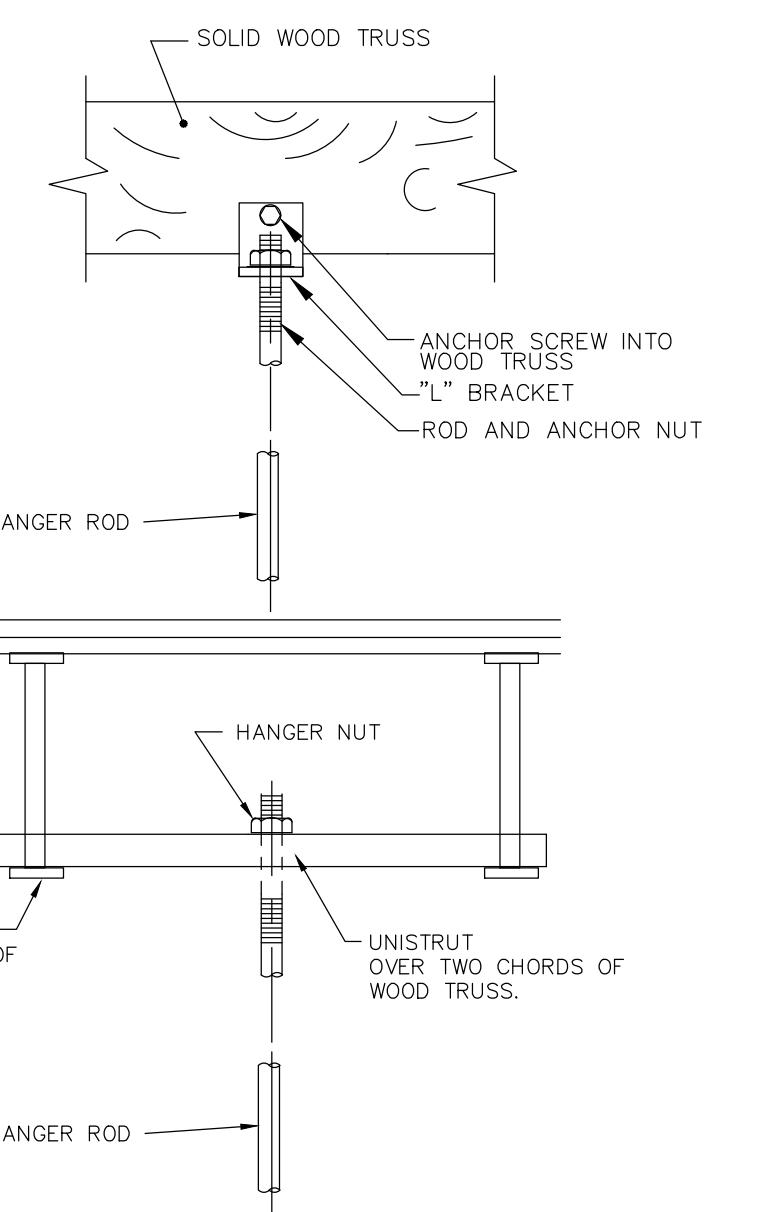
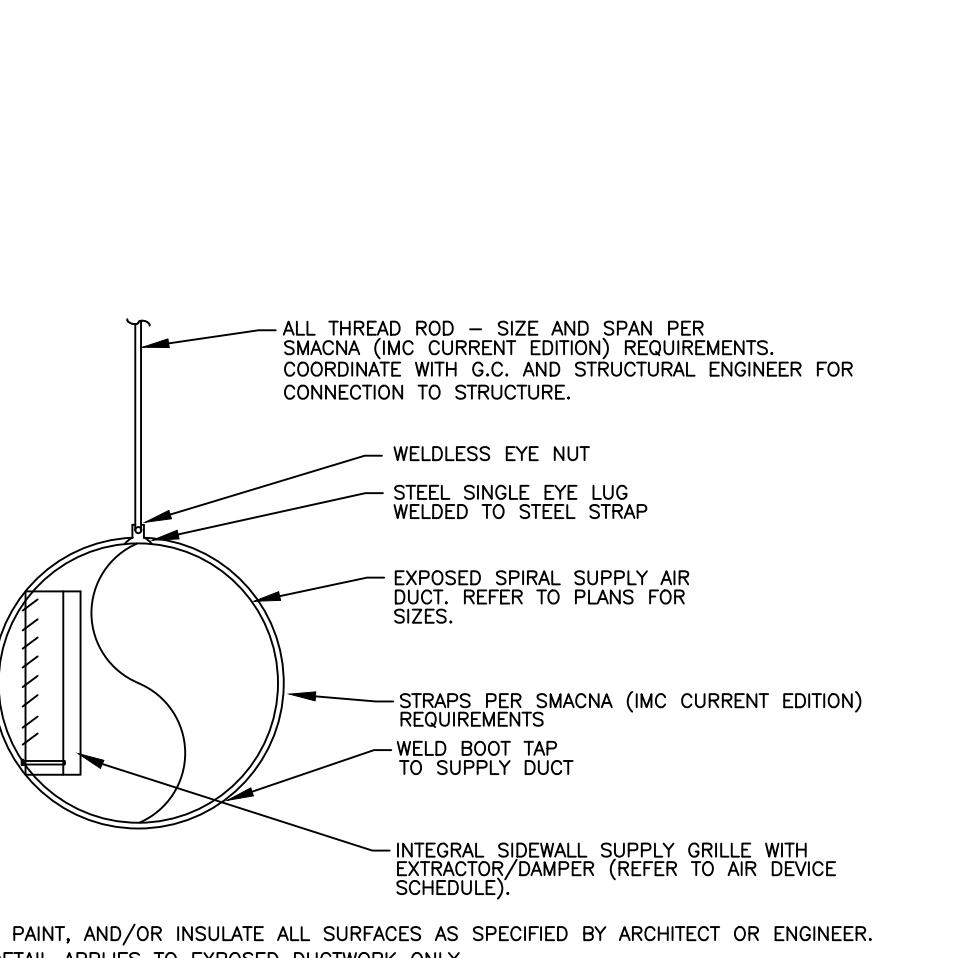
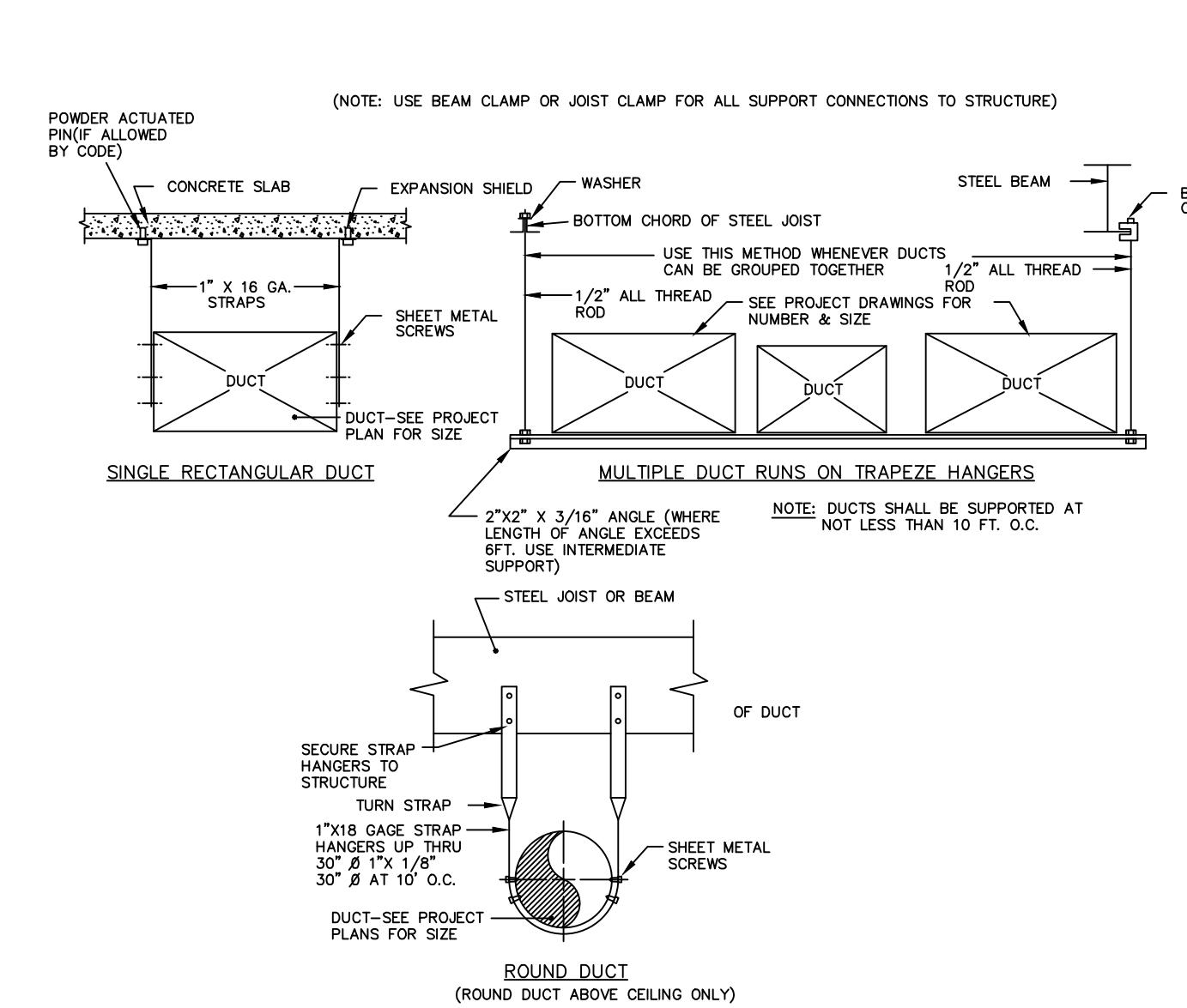
FIRE STATION #74
1910 W. CHANDLER BLVD.
PHOENIX, ARIZONA 85045
 Index No.: FD57100020-3



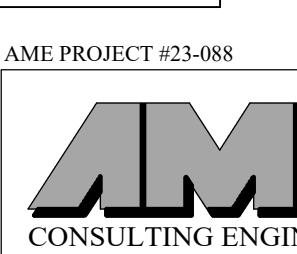
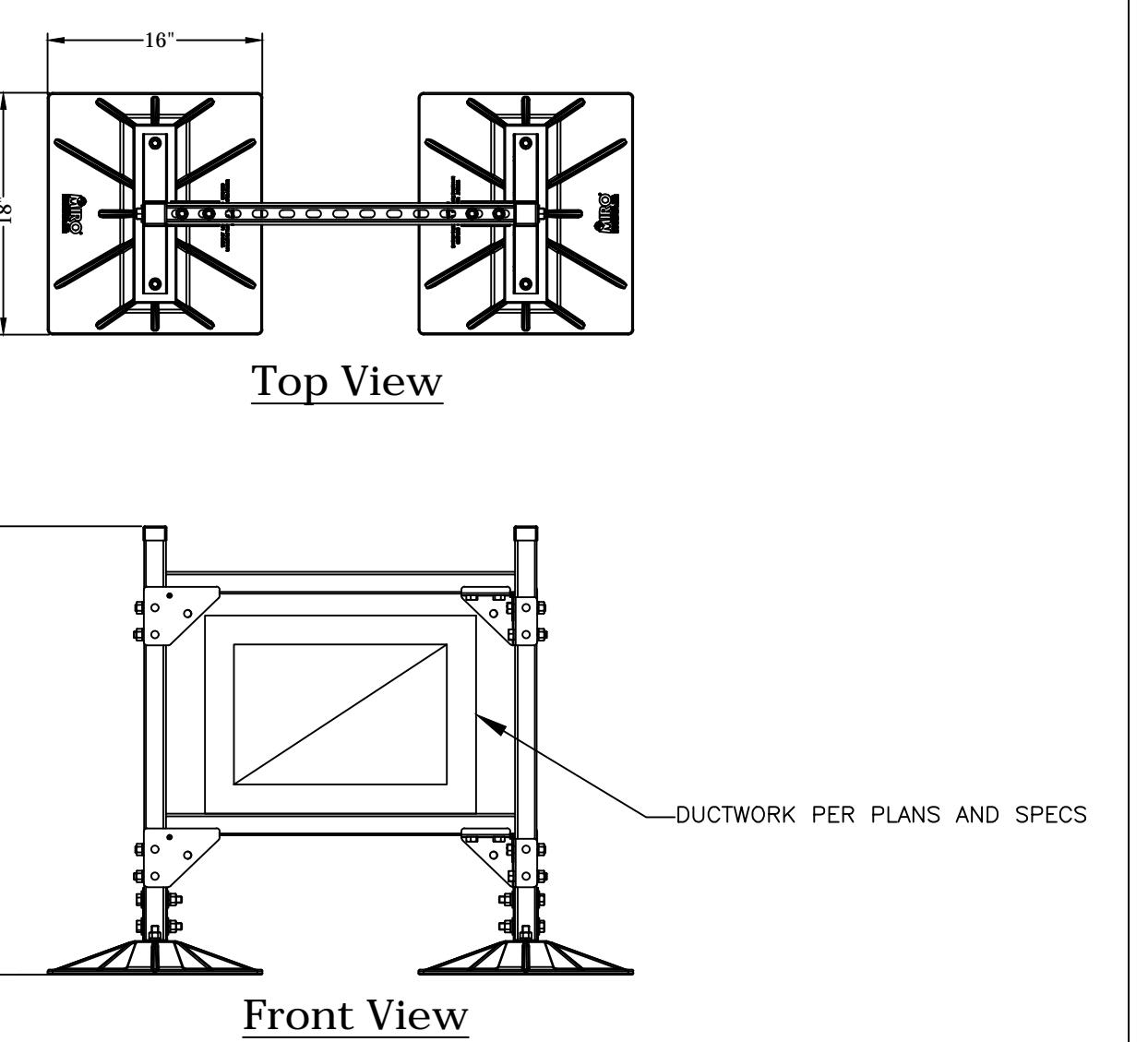
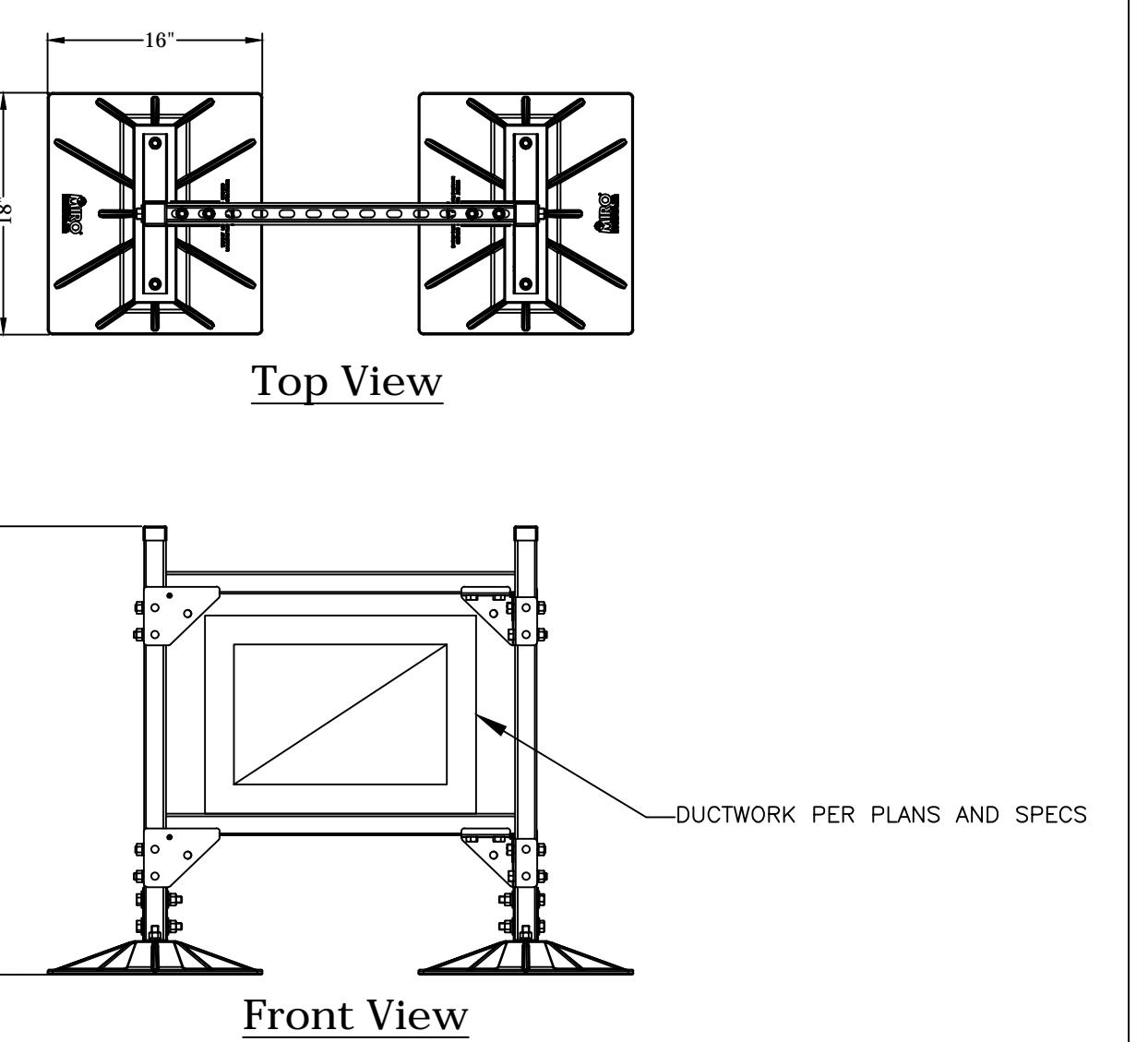
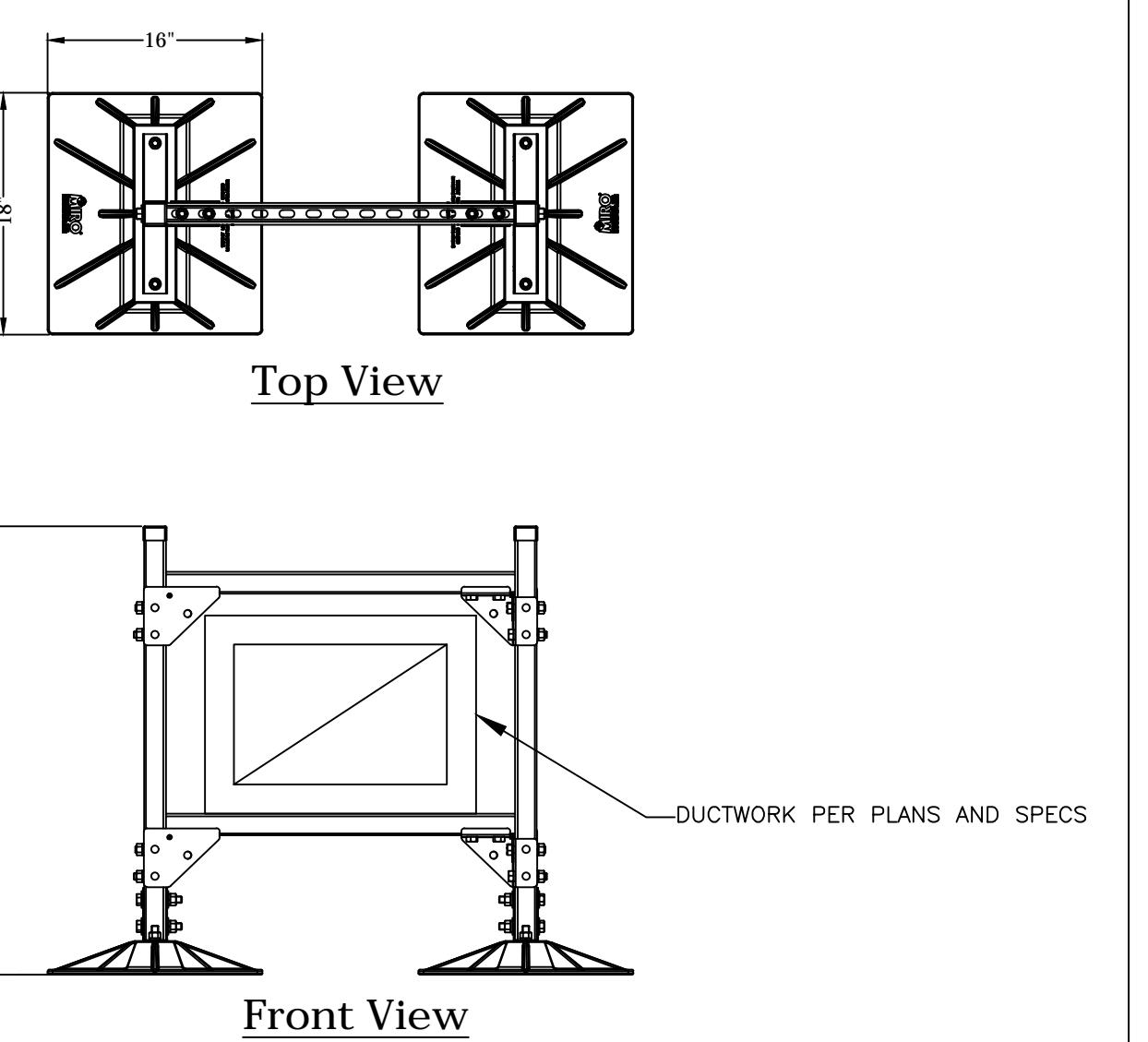
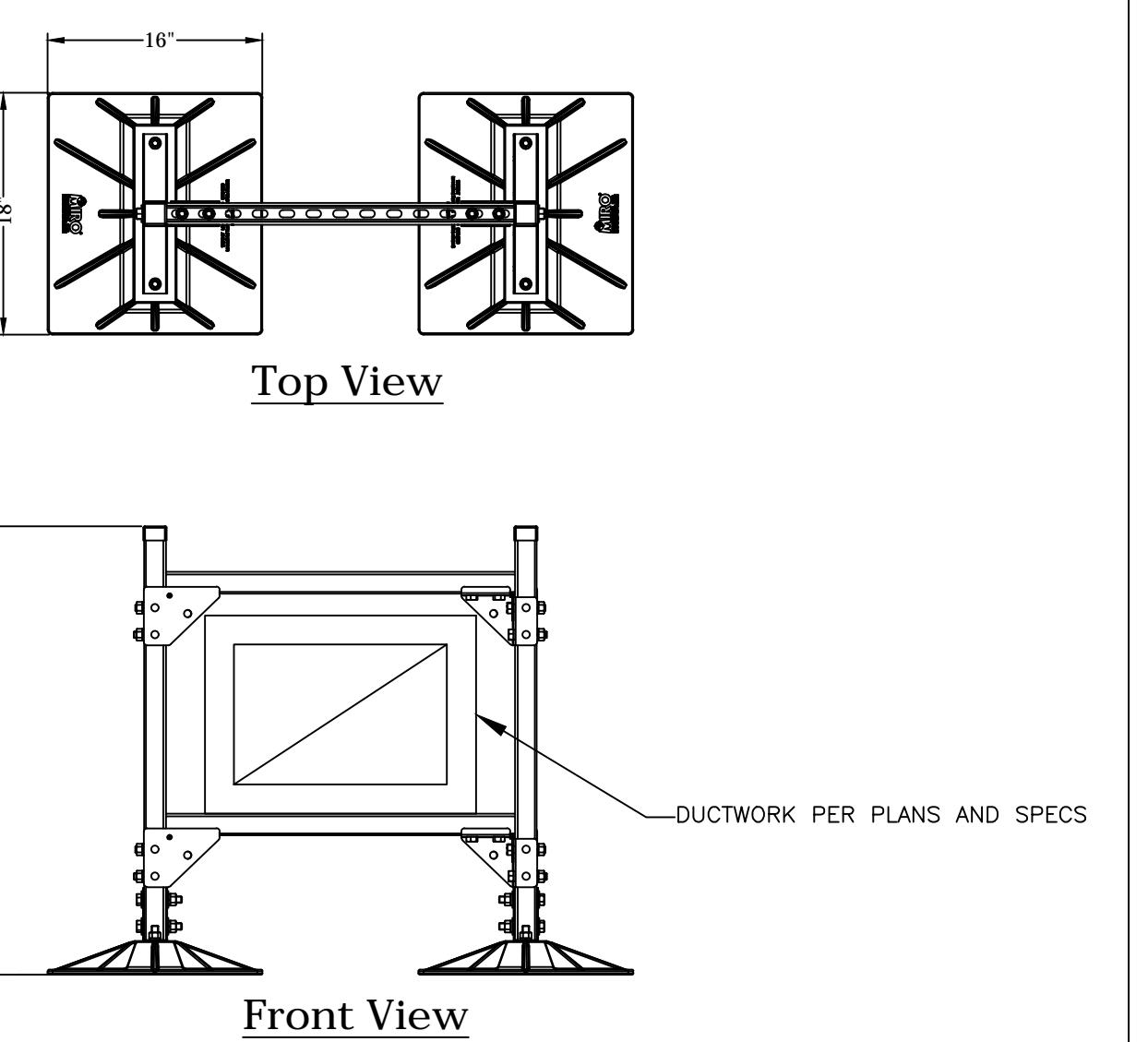
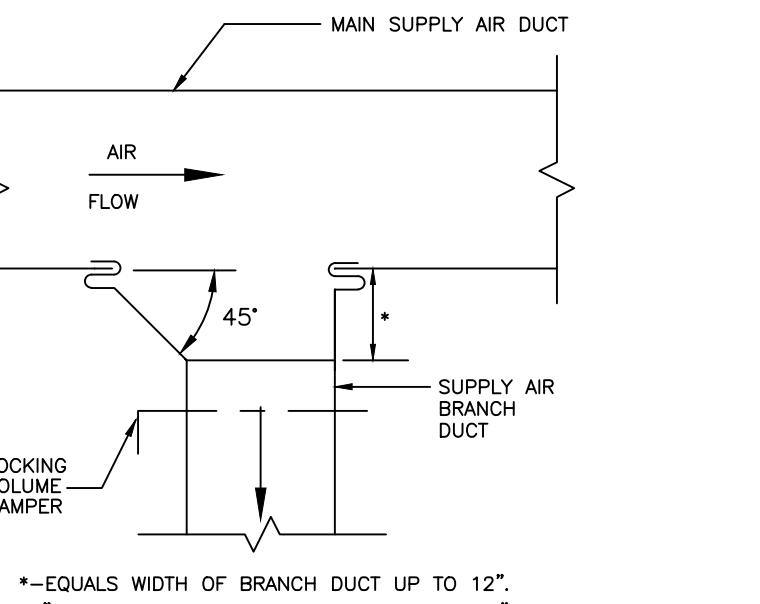
KIVA # 23-1810
 SDEV # 2300473

MECHANICAL DETAILS

M5.01



SEQUENCE OF OPERATION: VEF-1&2 SHALL BE INTERLOCKED WITH EC-1&2 SO THAT THE FOLLOWING SEQUENCE OF OPERATION IS PROVIDED: VEF-1&2 SHALL OPERATE FOR 5 MINUTES AFTER ACTIVATION FROM DOOR SENSOR. EC-1&2 SHALL OPERATE BASED ON DEMAND FROM THERMOSTATIC CONTROLS OR MANUAL OVERRIDE. COOLING SHALL BE PER ON-AUTO CONTROL SWITCH. WHEN EC-1&2 IS IN OPERATION, VEF-1&2 SHALL OPERATE (FOR POWER RELIEF). WHEN VEF-1&2 OPERATES, EC-1&2 SHALL OPERATE (FOR MAKEUP AIR). IF DOOR REMAINS OPEN, VEF-1&2 MAY BE TURNED OFF AFTER 5 MINUTES REGARDLESS OF EC OPERATION (FOR ENERGY SAVINGS). THE SYSTEM SHALL BE ACTIVATED BY INTERCONNECTION TO THE APPARATUS BAY DOOR OPERATORS TO COMMUNICATE AND INTERLOCK THIS SEQUENCE WITH THE CLIMATEC CONTROL SYSTEM.



ASSOCIATED MECHANICAL
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CITY OF PHOENIX FIRE DEPARTMENT STATION 74 - PERMIT CITY SUBMITTAL

Revisions	Date
	3/10/24



Designed By:
CR / PN

Drawn By:
CR / PN

Checked By:
GJJ

Date:
12/14/2023

Phase:
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2929 North Central Avenue Suite #1600
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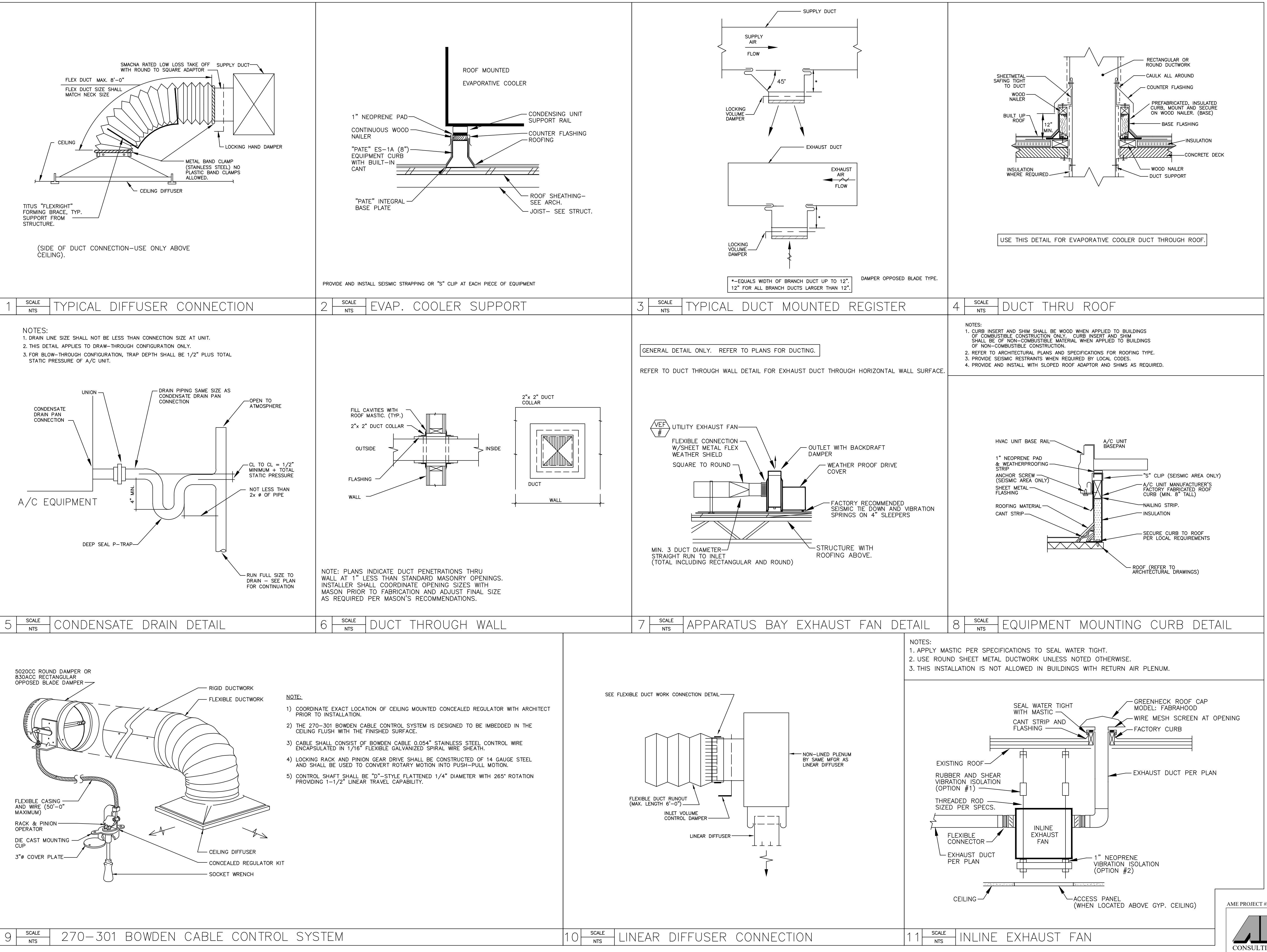


KIVA # 23-1810
SDEV # 2300473

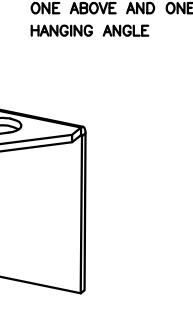
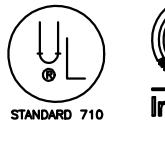
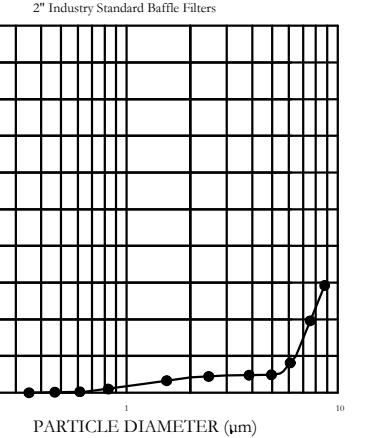
MECHANICAL
DETAILS

M5.02

BID SET 73 of 153



<p>AME PROJECT #23-088</p> <p>ASSOCIATED MECHANICAL ENGINEERS, PLLC 1121 W. Warner Rd., Suite 107 Tempe, AZ 85284 480.966.3996 Phone</p>	<p>Note: Per City of Phoenix City Code Chapter 2, section 2-28, these plans are for official use only and may not be shared with others except as required to fulfill the obligations of your contract with the City of Phoenix.</p>
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<p>FOR QUESTIONS, EMAIL THE Arizona Office REGION 93 PHONE: (480) 926 - 6810 EMAIL: reg93@captiveaire.com</p> <p>PATENT NUMBERS EXHAUST HOODS ND-2/BD-2/SND-2 (CANADA) - CA PATENT 2520435 C.</p>										<p>REVISIONS</p> <table border="1"> <tr> <td>△</td> <td>DESCRIPTION</td> <td>DATE:</td> </tr> <tr> <td>△</td> <td></td> <td></td> </tr> <tr> <td>△</td> <td></td> <td></td> </tr> <tr> <td>△</td> <td></td> <td></td> </tr> </table>  <p>*ROD AND NUTS TO BE SUPPLIED BY INSTALLING CONTRACTOR HANGING ANGLE IS PRE-PUNCHED AT FACTORY</p> <p>ND-2 HANGING ANGLE DETAIL</p> <table border="1"> <tr> <th>HOOD STYLE</th> <th>DIM FROM REAR</th> <th>DIM FROM FRONT (24")</th> <th>DIM FROM FRONT (30")</th> </tr> <tr> <td>CANOPY ND2</td> <td>4.166"</td> <td>2.246"</td> <td>2.246"</td> </tr> <tr> <td>ND2-PSP-F</td> <td>4.166"</td> <td>2.246"</td> <td>2.246"</td> </tr> <tr> <td>BACKSHELF 2847BD</td> <td>2.00"</td> <td>14.25"</td> <td>-</td> </tr> <tr> <td>VHB/VHB-G</td> <td>36"X36"</td> <td>42"X42"</td> <td>48"X48"</td> </tr> <tr> <td>FRONT/BACK DIMS BY SIZE</td> <td>2.246"</td> <td>2.246"</td> <td>2.246"</td> </tr> </table> <p>HANGING ANGLE LOCATIONS</p> <table border="1"> <tr> <td>EXHAUST CFM=LENGTH OF HOOD X CFM/LIN.FT. (LOAD)</td> </tr> <tr> <td>SUPPLY CFM=EXHAUST CFM X PERCENTAGE REQUIRED</td> </tr> <tr> <td>TOTAL DUCT AREA=144 X CFM / FPM(4)</td> </tr> <tr> <td>DUCT LENGTH= TOTAL DUCT AREA / DUCT DEPTH</td> </tr> </table> <p>* CAPTIVE-AIRE VENTILATOR DUCT SIZES ARE CALCULATED USING AN EXHAUST VELOCITY OF 1500-1800 FPM AND A SUPPLY VELOCITY OF 1000 FPM.</p> <p>CALCULATIONS UTILIZED</p> <p>CAPTIVE-AIRE HOODS ARE BUILT IN COMPLIANCE WITH:</p>    <p>BUILT ACCORDING WITH UL Standard No. 961 & #3054804-001 & #3054804-002 Listed under ETL File number 3054804-001/002</p> <p>BUILDING CODES</p> <p>CAPTIVE-AIRE HOODS HAVE OPTIONAL CLEARANCE REDUCTION SYSTEMS AVAILABLE AS FOLLOWS:</p> <table border="1"> <tr> <th>MATERIAL</th> <th>CLEARANCE REDUCTION SYSTEM</th> </tr> <tr> <td>NON-COMBUSTIBLE</td> <td>NONE REQUIRED</td> </tr> <tr> <td>LIMITED-COMBUSTIBLE</td> <td>3" UNINSULATED STANDOFF</td> </tr> <tr> <td>COMBUSTIBLE</td> <td>1" INSULATED STANDOFF</td> </tr> </table> <p>CLEARANCE TO COMBUSTIBLES</p> <p>INSTALLATION</p> <ol style="list-style-type: none"> ALL ELECTRICAL "FIELD" CONNECTIONS AND RELATED INTERCONNECTIONS MADE BY PLUMBING CONTRACTORS. ALL PLUMBING "FIELD" CONNECTIONS AND RELATED INTERCONNECTIONS BY PLUMBING CONTRACTORS. HANGING BRACKETS LOCATED AND WELDED AS SHOWN ON PLANS. ALL OTHER HANGER MATERIALS PROVIDED BY INSTALLING CONTRACTORS. ALL CONNECTIONS MADE BY CAPTIVE-AIRE DUCT PER MECHANICAL CONTRACTOR'S PLANS. COOKING EQUIPMENT TO SHUTOFF IN EVENT OF FIRE. EXHAUST FANS TO TURN ON IN EVENT OF FIRE. ALL LIGHTS FIXTURE SHOWN INSTALLED BY CAPTIVE-AIRE ARE FACTORY PREWIRED. INTERCONNECTIONS BETWEEN HOOD AND FIXTURES BY PLUMBING CONTRACTORS. LAMPS FOR LIGHT FIXTURE BY INSTALLING CONTRACTORS. SEISMIC RESTRAINTS ARE RESPONSIBILITY OF INSTALLING CONTRACTOR. INSTALLING CONTRACTORS ASSUME ALL RELATED RESPONSIBILITY FOR VERIFICATION OF ADDITIONAL DATA CONTAINED IN THESE DOCUMENTS FOR ACCURACY, INTEGRATION, AND ADMINISTRATION OF CODE REQUIREMENTS IN EFFECT PRIOR TO ANY RELEASE FOR PRODUCTION OR EQUIPMENT SHOWN. <p>BALANCE</p> <ol style="list-style-type: none"> KITCHEN HOODS MUST BE BALANCED WITH KITCHEN. KITCHEN SHALL BE NEGATIVE WITH RESPECT TO KITCHEN AREA. RESTAURANT SHALL BE POSITIVE WITH RESPECT TO AMBIENT PRESSURE. <p>ADDITIONAL</p> <ol style="list-style-type: none"> WRITTEN HOOD DIMENSIONS HAVE PRECEDENCE OVER SCALE. SIGNED AND "APPROVED" COPIES OF THIS DOCUMENT MUST BE RECEIVED BY THE FACTORY PRIOR TO COMMENCEMENT OF FABRICATION. <p>GENERAL NOTES</p> <p>FILTER COLLECTION EFFICIENCY 2" Industry Standard Baffle Filters</p>  <p>DATE: 9/27/2023</p> <p>DWG.#: 6244325</p> <p>DRAWN BY:</p> <p>SCALE: 3/4" = 1'-0"</p> <p>MASTER DRAWING</p> <p>SHEET NO.</p> <p>City of Phoenix Fire Station No. 74</p> <p>TOLLESON, AZ, 85353</p> <p>CAPTIVE-AIRE</p> <p>18206 N 19th Ave, Ste 1A-1B, Phoenix, AZ, 85023 PHONE: (480) 926 - 6810 FAX: 8777719227 EMAIL: reg93@captiveaire.com</p>										△	DESCRIPTION	DATE:	△			△			△			HOOD STYLE	DIM FROM REAR	DIM FROM FRONT (24")	DIM FROM FRONT (30")	CANOPY ND2	4.166"	2.246"	2.246"	ND2-PSP-F	4.166"	2.246"	2.246"	BACKSHELF 2847BD	2.00"	14.25"	-	VHB/VHB-G	36"X36"	42"X42"	48"X48"	FRONT/BACK DIMS BY SIZE	2.246"	2.246"	2.246"	EXHAUST CFM=LENGTH OF HOOD X CFM/LIN.FT. (LOAD)	SUPPLY CFM=EXHAUST CFM X PERCENTAGE REQUIRED	TOTAL DUCT AREA=144 X CFM / FPM(4)	DUCT LENGTH= TOTAL DUCT AREA / DUCT DEPTH	MATERIAL	CLEARANCE REDUCTION SYSTEM	NON-COMBUSTIBLE	NONE REQUIRED	LIMITED-COMBUSTIBLE	3" UNINSULATED STANDOFF	COMBUSTIBLE	1" INSULATED STANDOFF
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The logo is a stylized black bird, likely a phoenix, depicted in profile facing right. It has a large, curved, flame-like tail and a small crest on its head. The bird is set against a white circular background.

WA #	<u>23-1810</u>
DEV #	<u>2300473</u>
KITCHEN VENTILATION	
16.01	

CITY OF PHOENIX OFFICE OF THE CITY ENGINEER FIRE DEPARTMENT STATION 74 - PERMIT CITY SUBMITTAL

CITY OF PHOENIX FIRE DEPARTMENT STATION 74 - PERMIT CITY SUBMITTAL

Revisions	Date
△ CITY COMMENTS	3/10/24



Designed By:
CR / PN
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2929 North Central Avenue, Suite #1600
Phoenix, Arizona 85012
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Title: **FIRE STATION #74**
1910 W. CHANDLER BLVD.
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Index No.: FD57100020-3



KIVA # 23-1810
SDEV # 2300473

KITCHEN
VENTILATION

M6.04

BID SET 77 of 153

EXHAUST FAN INFORMATION - JOB#6244325

FAN UNIT NO	TAG	QTY	FAN UNIT MODEL #	MANUFACTURER	CFM	ESP	RPM	MOTOR ENCL	HP	BHP	PHASE	VOLT	FLA	DISCHARGE VELOCITY	WEIGHT (LBS)	SONES
1		1	DU50HFA	CAPTIVEAIR	725	0.750	1231	ODP	0.500	0.2040	1	115	8.4	276 FPM	90	10.3

FAN OPTIONS

FAN UNIT NO	TAG	QTY	DESCRIPTION
1		1	GREASE BOX
1		1	FAN BASE CERAMIC SEAL - INSTALLED AT PLANT - FOR GREASE DUCTS
1		1	2 YEAR PARTS WARRANTY

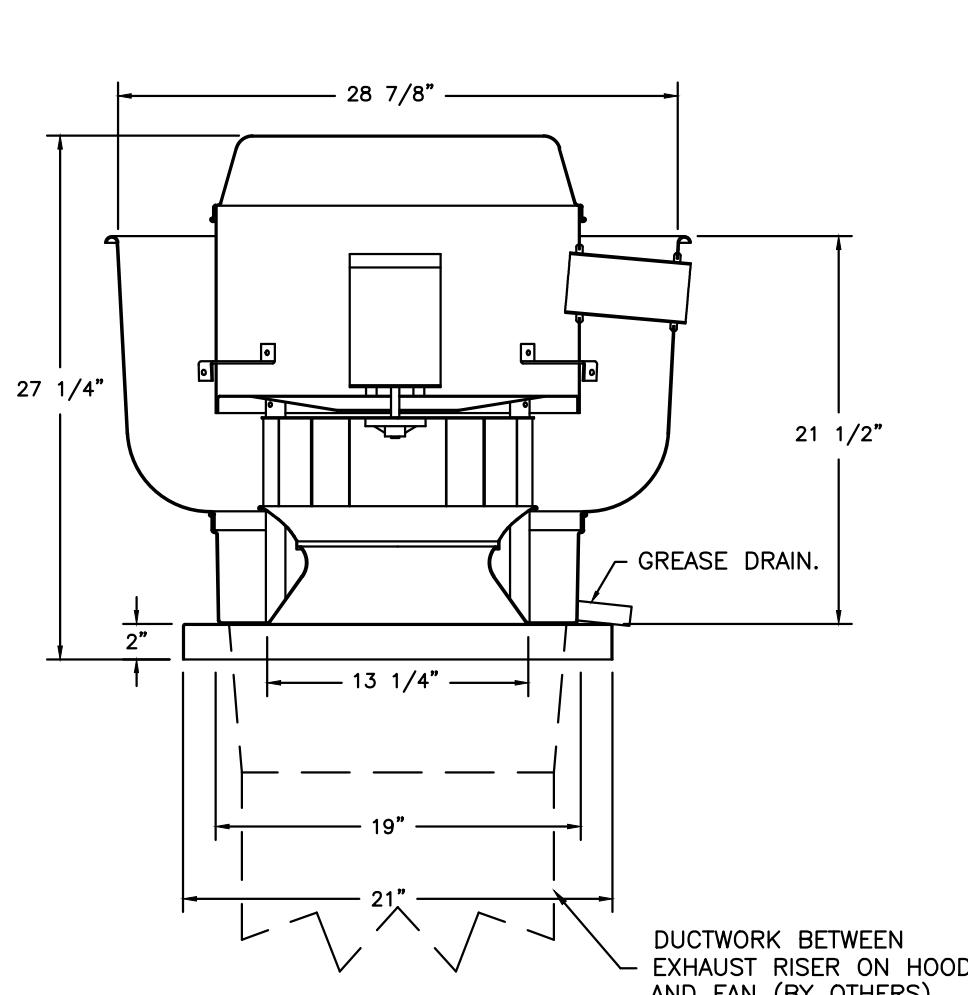
FAN ACCESSORIES

FAN UNIT NO	TAG	EXHAUST				SUPPLY			
		GREASE CUP	GRAVITY DAMPER	WALL MOUNT	SIDE DISCHARGE	GRAVITY DAMPER	MOTORIZED DAMPER	WALL MOUNT	
1	YES								

CURB ASSEMBLIES

NO	ON FAN	WEIGHT	ITEM	SIZE
1	# 1	31 LBS	CURB	19.500" W X 19.500" L X 20.000" H VENTED HINGED.

FAN #1 DU50HFA - EXHAUST FAN



FEATURES:

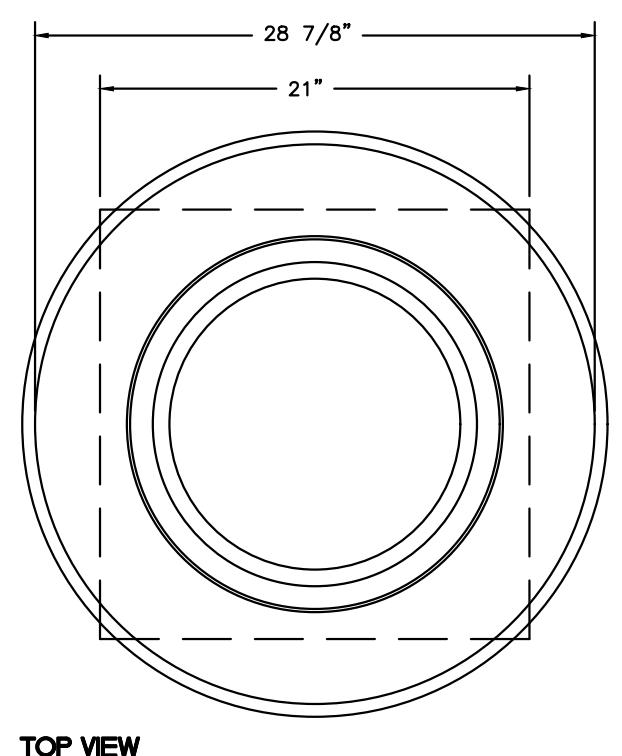
- DIRECT DRIVE CONSTRUCTION (NO BELTS/PULLEYS).
- ROOF MOUNTED FANS.
- RESTAURANT MODEL.
- UL705 AND UL762 AND ULC-S645
- VARIABLE SPEED CONTROL.
- INTERNAL WIRING.
- THERMAL OVERLOAD PROTECTION (SINGLE PHASE).
- HIGH HEAD OPERATION 300F (149C).
- GREASE CLASSIFICATION TESTING.
- NEMA 3R SAFETY DISCONNECT SWITCH.

NORMAL TEMPERATURE TEST
EXHAUST FAN MUST OPERATE CONTINUOUSLY WHILE EXHAUSTING BURNING GREASE VAPORS AT 600F (316C) FOR A PERIOD OF 15 MINUTES WITHOUT THE FAN BECOMING DAMAGED TO ANY EXTENT THAT COULD CAUSE AN UNSAFE CONDITION.

ABNORMAL FLARE-UP TEST
EXHAUST FAN MUST OPERATE CONTINUOUSLY WHILE EXHAUSTING BURNING GREASE VAPORS AT 600F (316C) FOR A PERIOD OF 15 MINUTES WITHOUT THE FAN BECOMING DAMAGED TO ANY EXTENT THAT COULD CAUSE AN UNSAFE CONDITION.

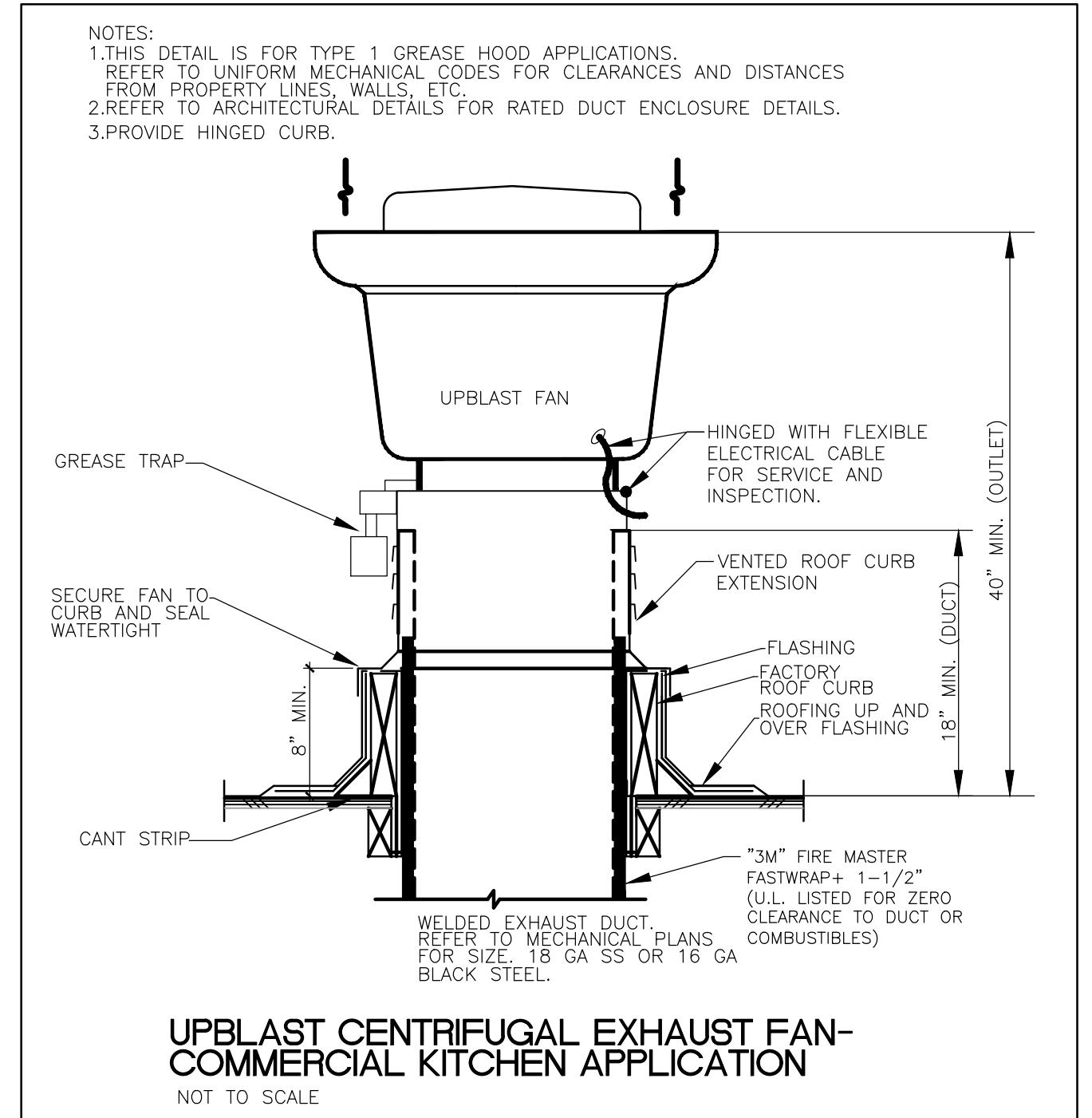
OPTIONS

- GREASE BOX.
- FAN BASE CERAMIC SEAL - INSTALLED AT PLANT - FOR GREASE DUCTS.
- 2 YEAR PARTS WARRANTY.



VERIFY PITCH CURB

Curb Pitch Required in order to manufacture the curb to specification.

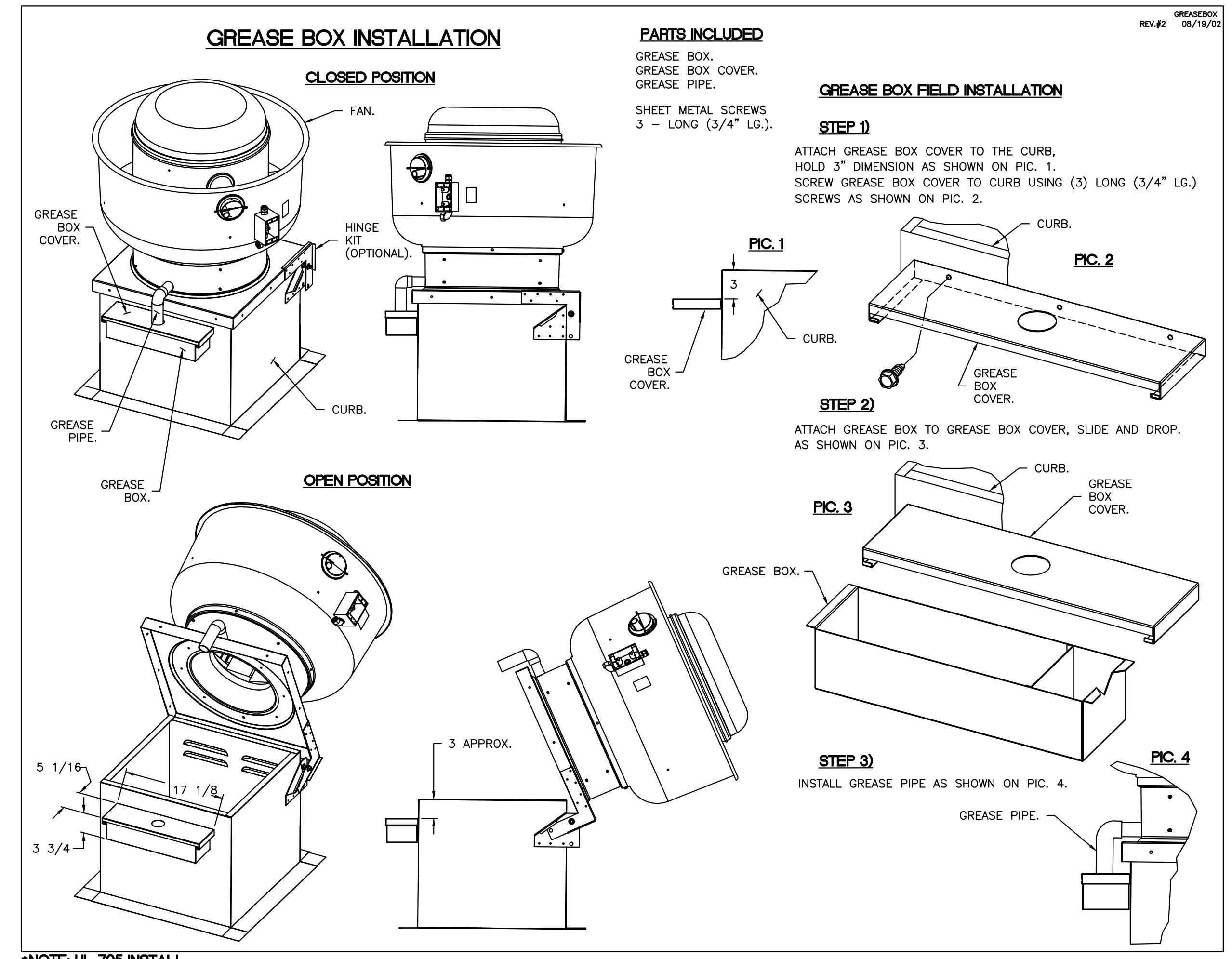
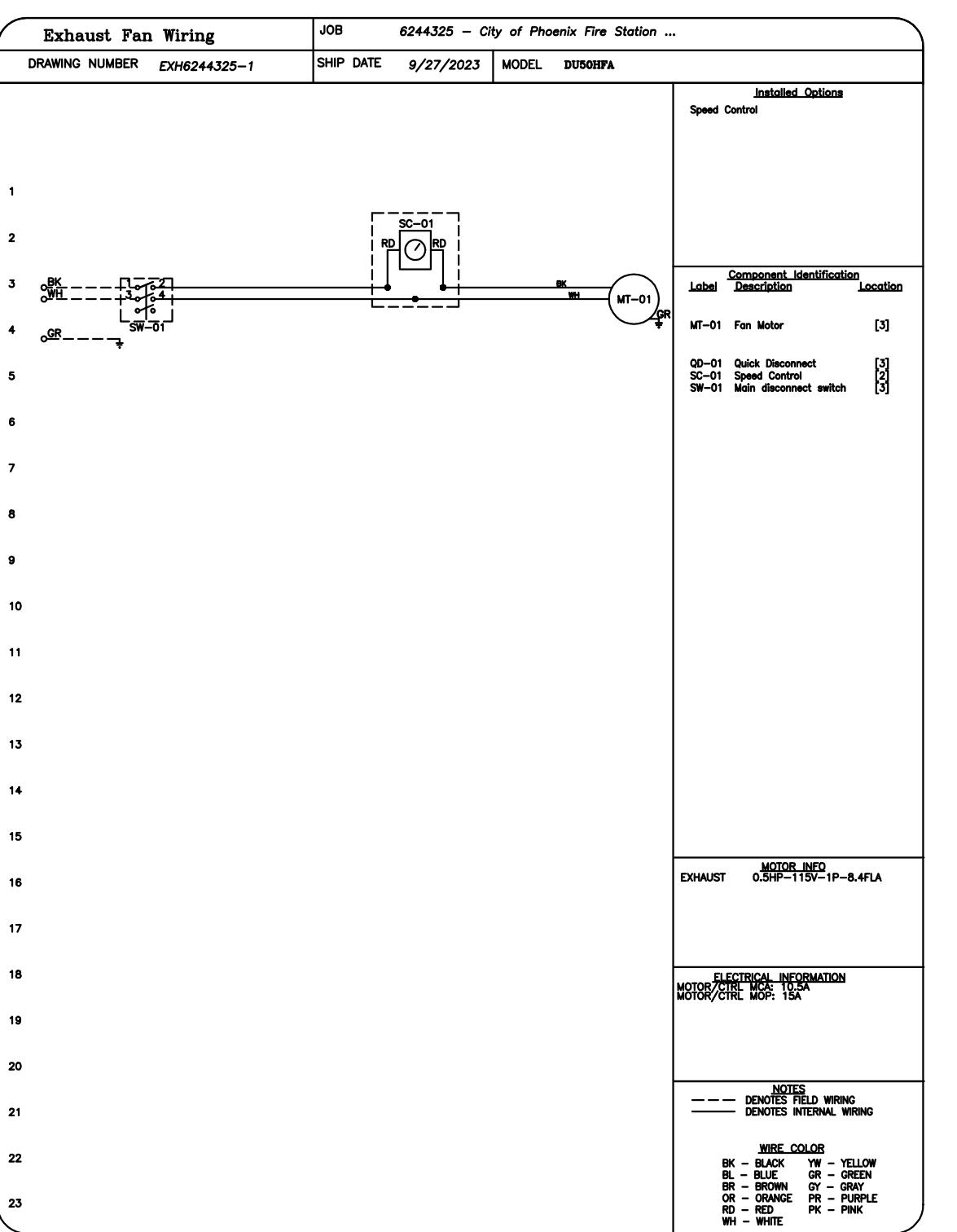
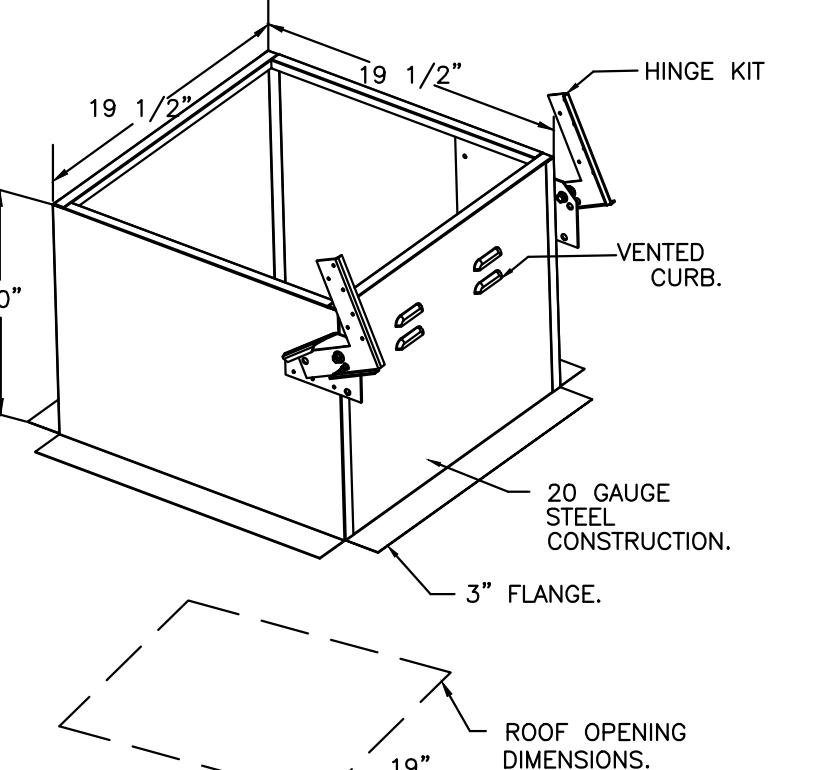


UPBLAST CENTRIFUGAL EXHAUST FAN - COMMERCIAL KITCHEN APPLICATION

NOT TO SCALE

NOTE: REFER TO PLANS. GREASE DUCT HAS NO OFFSETS. NO CLEANOUTS REQUIRED.

NOTE:
EXHAUST FAN TO BE NON-SPARKING CONSTRUCTION AND SHALL HAVE UL762 LISTING FOR RESTAURANT EXHAUST APPLICATIONS (IMC 506.5.1).



DESCRIPTION	DATE
△	3/10/24



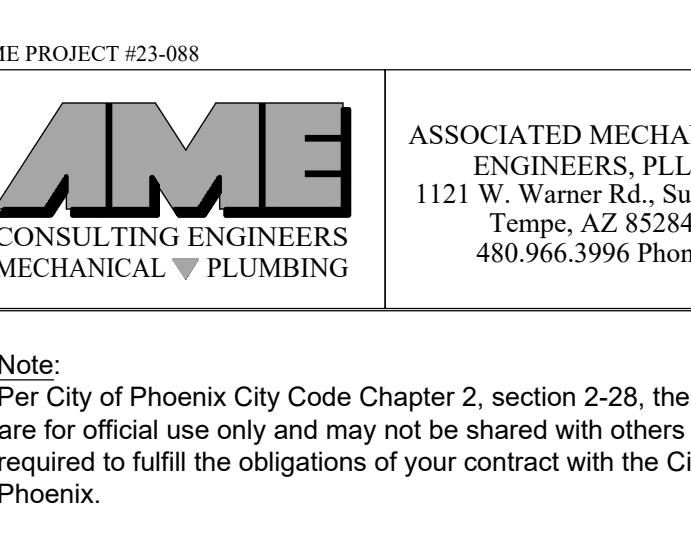
Captive
Arizona Office

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City of Phoenix Fire Station No. 74
TOLLESON, AZ, 85353

DATE: 9/27/2023
DWG.#: 6244325
DRAWN BY:
SCALE: 3/4" = 1'-0"
MASTER DRAWING

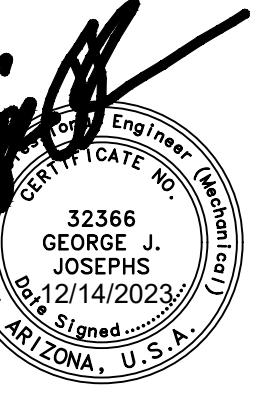
SHEET NO.
4



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KIVA # 23-1810
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CITY OF PHOENIX KITCHEN VENTILATION
M6.05

REVISIONS		
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www.captiveair.com

Captive Air

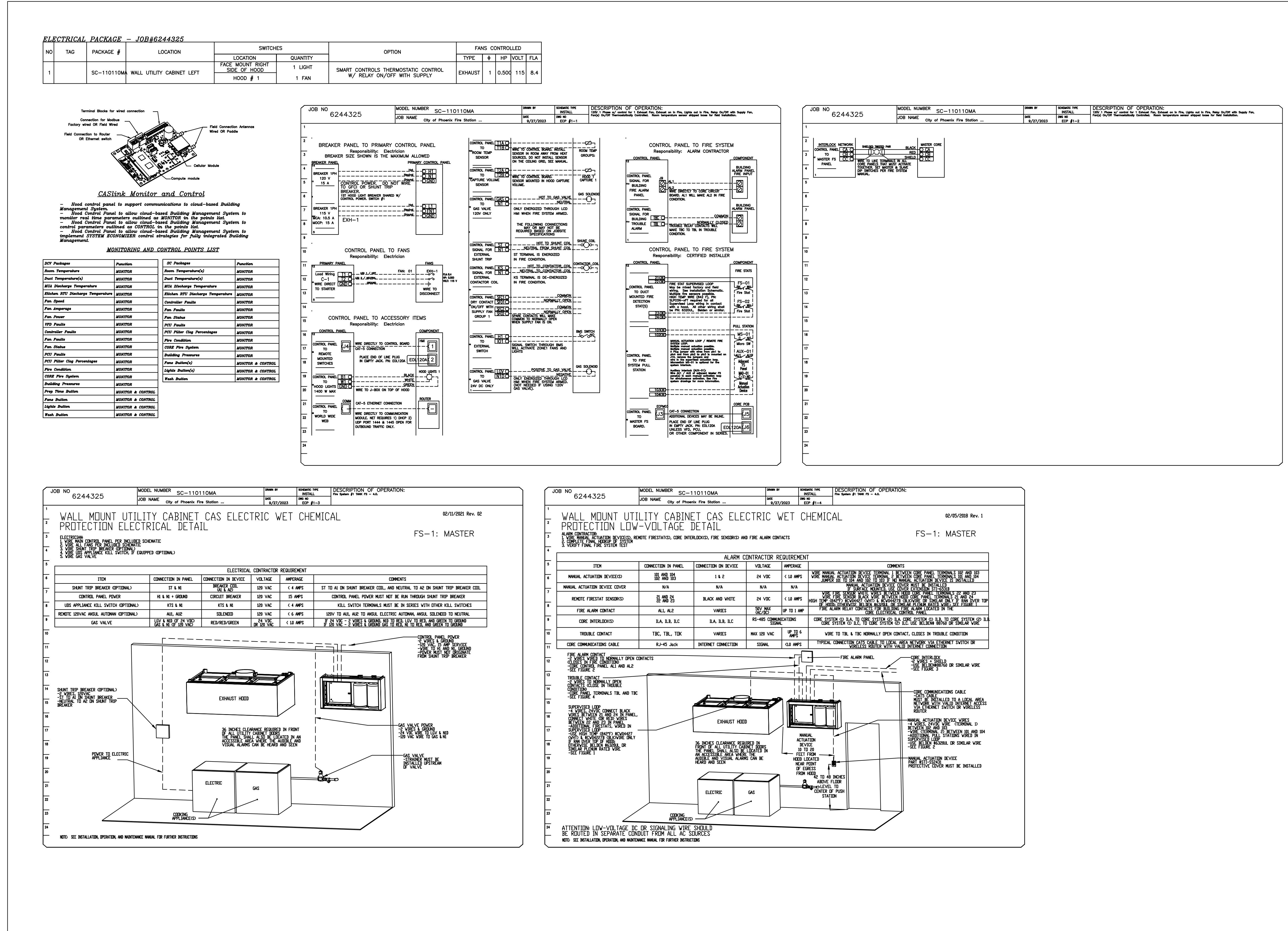
Arizona Office
18206 N 19th Ave. Ste 1A-B, Phoenix, AZ 85023 PHONE: (480) 926-1881 FAX: 877/719-2227 EMAIL: reg93@captiveair.com

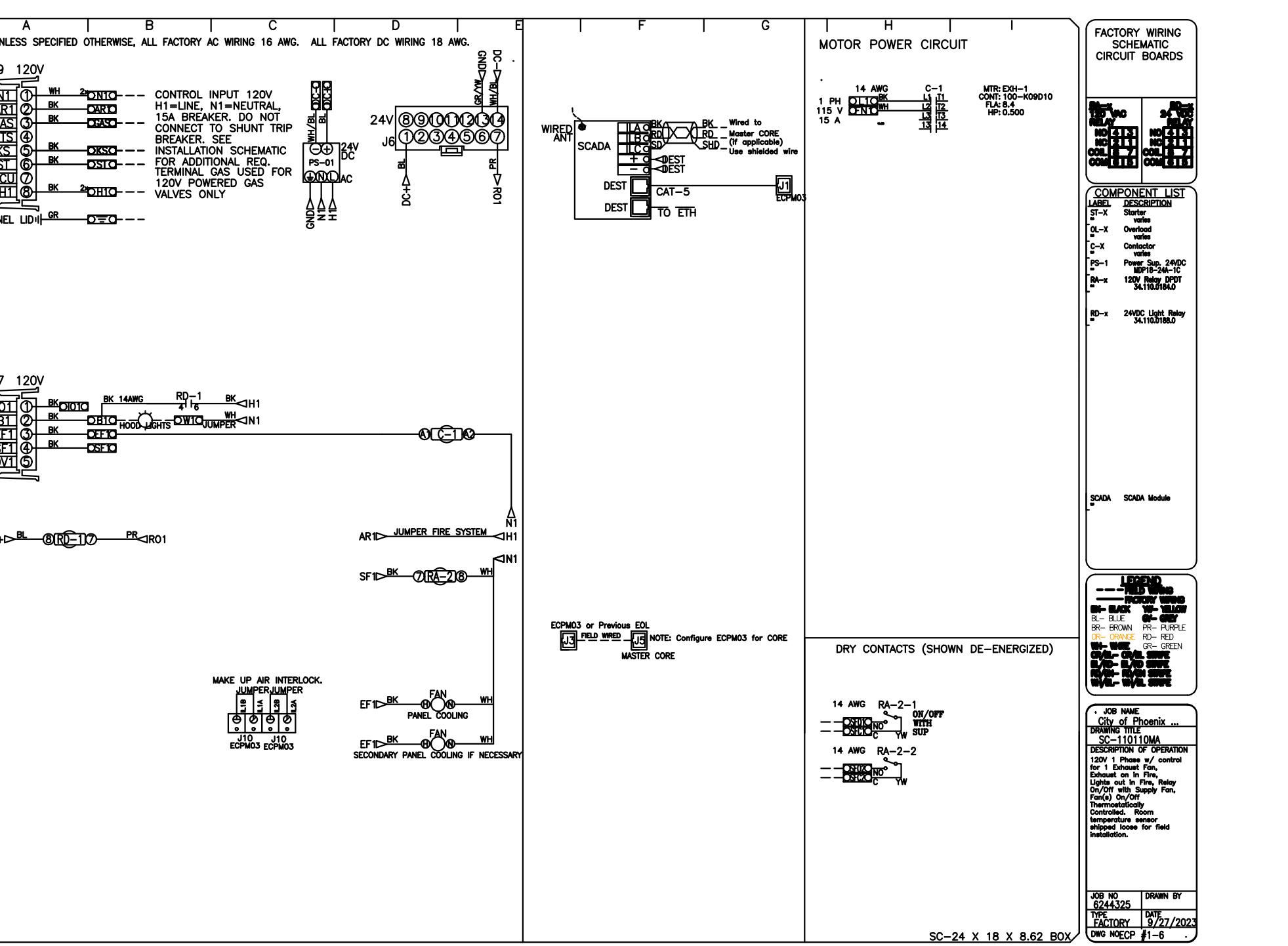
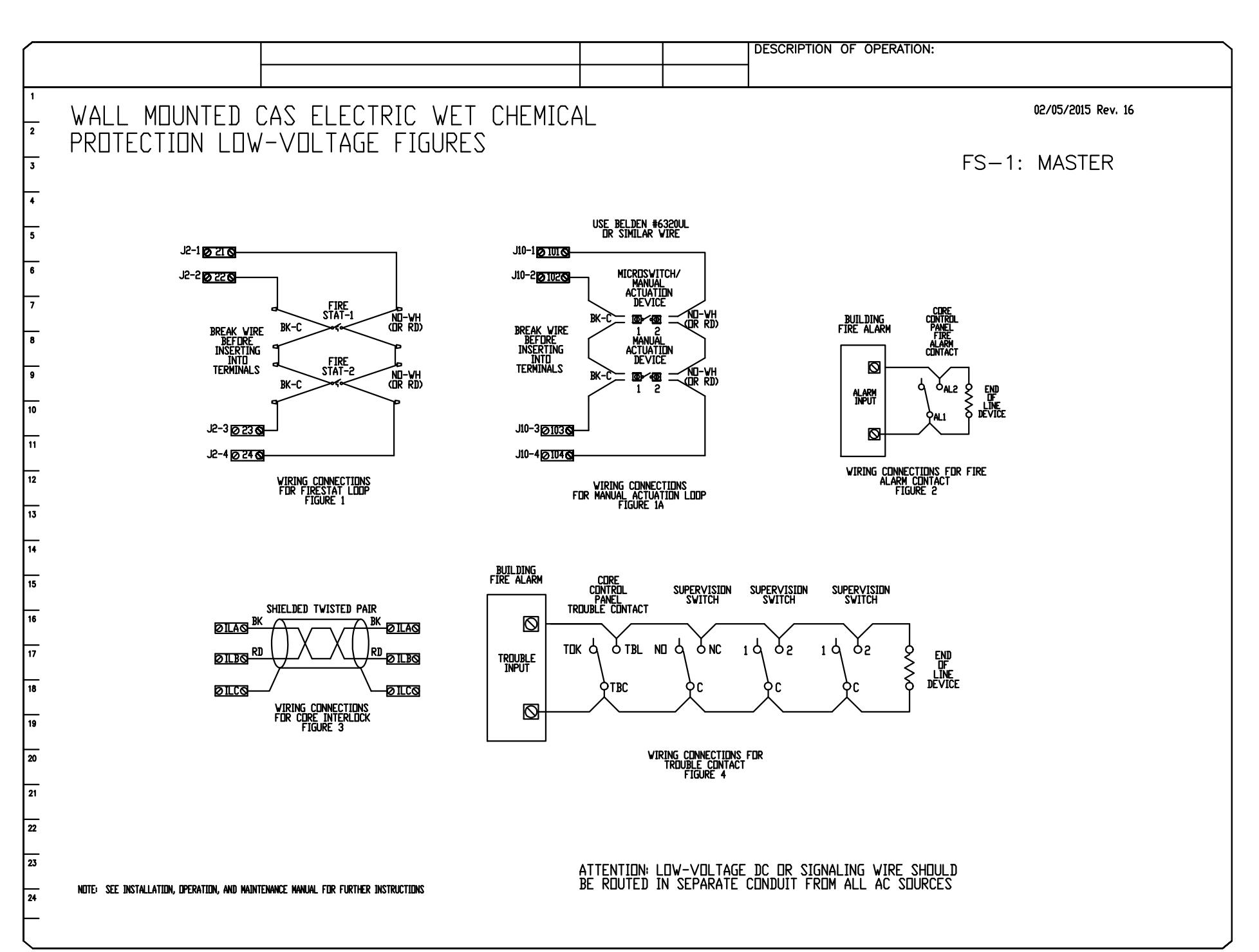
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AME CONSULTING ENGINEERS MECHANICAL □ PLUMBING	ASSOCIATED MECHANICAL ENGINEERS, PLLC 1121 W. Warner Rd., Suite 107 Tempe, AZ 85284 480.966.3996 Phone
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BID SET 78 of 153





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The logo for Perlmutter Architects of Arizona. The word "Perlman" is written vertically in a large, bold, serif font. To its right, the word "Architects" is stacked vertically in a smaller serif font. Below "Architects", the words "of Arizona" are written in a smaller serif font. At the bottom of the page, the address "2929 North Central Avenue, Suite #1600 Phoenix, Arizona 85012" is listed, followed by the phone number "480.951.5900" and the fax number "480.951.3045". The website "perlmaz.com" is also listed at the bottom.

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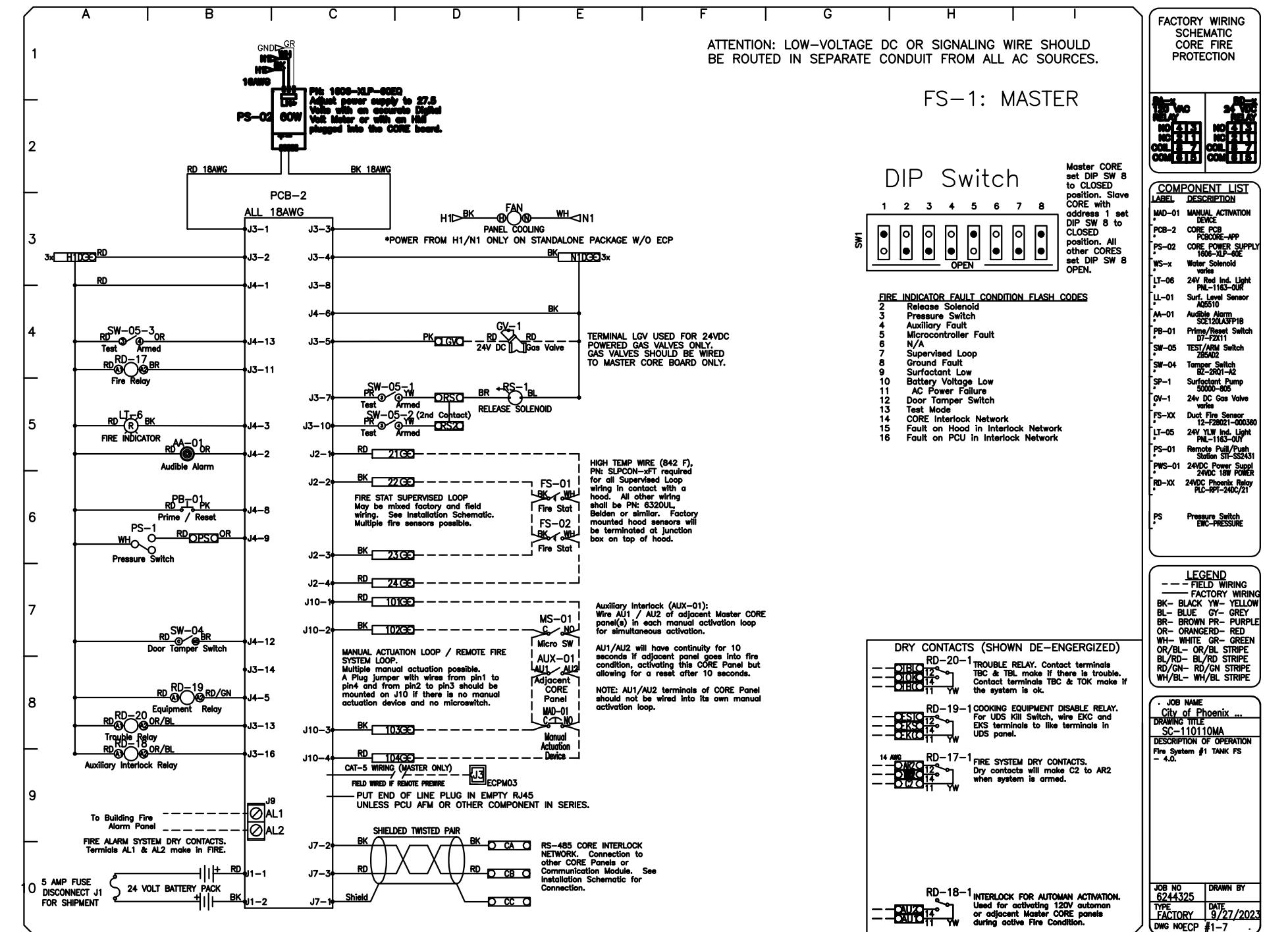
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A stylized black and white logo of a phoenix rising from a circular base.

KIVA # 23-1810
SDEV # 230047

KITCHEN
VENTILATION

M6.06



SYSTEM DESIGN VERIFICATION (SDV)

ORDERED, CAS SERVICE WILL PERFORM A SYSTEM DESIGN VERIFICATION (SDV) ONCE ALL EQUIPMENT HAS
AD A COMPLETE START UP PER THE OPERATION AND INSTALLATION MANUAL. TYPICALLY, THE SDV WILL BE
ERFORMED AFTER ALL INSPECTIONS ARE COMPLETE.

NY FIELD RELATED DISCREPANCIES THAT ARE DISCOVERED DURING THE SDV WILL BE BROUGHT TO THE ATTENTION OF THE GENERAL CONTRACTOR AND CORRESPONDING TRADES ON SITE. THESE ISSUES WILL BE DOCUMENTED AND FORWARDED TO THE APPROPRIATE SALES OFFICE. IF CAS SERVICE HAS TO RESOLVE A DISCREPANCY THAT IS A FIELD ISSUE, THE GENERAL CONTRACTOR WILL BE NOTIFIED AND BILLED FOR THE WORK. SHOULD A RETURN TRIP BE REQUIRED DUE TO ANY FIELD RELATED DISCREPANCY THAT CANNOT BE RESOLVED DURING THE SDV, THERE WILL BE ADDITIONAL TRIP CHARGES.

URING THE SDV, CAS SERVICE WILL ADDRESS ANY DISCREPANCY THAT IS THE FAULT OF THE MANUFACTURER. SHOULD A RETURN TRIP BE REQUIRED, THE GENERAL CONTRACTOR AND APPROPRIATE SALES OFFICE WILL BE NOTIFIED. THERE WILL BE NO ADDITIONAL CHARGES FOR MANUFACTURER DISCREPANCIES.

TOLLESON, AZ, 85353

DATE: 9/27/2023

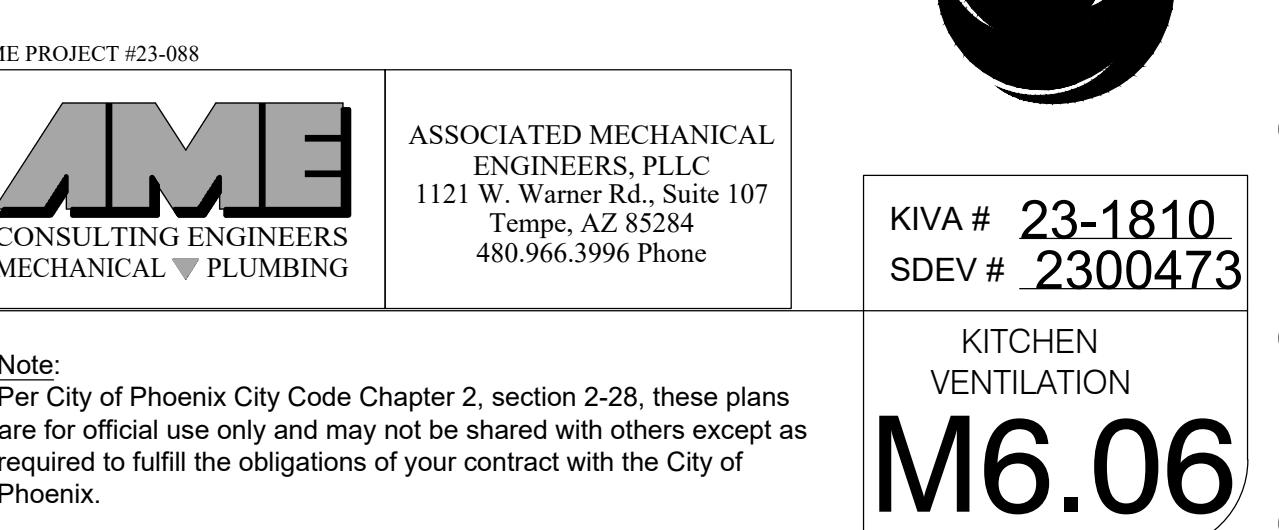
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SCALE:

MASTER DRAWING

SHEET NO.

422-088



CITY OF PHOENIX FIRE DEPARTMENT OFFICE OF THE CITY ENGINEER

FIRE STATION #74
1910 W. CHANDLER BLVD.
PHOENIX, ARIZONA 85045
Index No.: FD57100020-3



KIVA # 23-1810
SDEV # 2300473

COMcheck

M7.01

Revisions

Date

CITY COMMENTS

3/10/24

COMcheck Software Version 4.1.5.3

Mechanical Compliance Certificate

Project Information

Energy Code: 2018 IECC
Project Title: PHOENIX FIRE STATION #74
Location: Phoenix, Arizona
Climate Zone: 2b
Project Type: New Construction

Construction Site: Owner/Agent: Designer/Contractor:

Additional Efficiency Package(s)
Credits: 1.0 Required 1.0 Proposed
Enhanced Interior Lighting Controls, 1.0 credit

Mechanical Systems List

Quantity	System Type & Description
3	AC-1.2.5 (Single Zone): Heating: 1 each - Central Furnace, Gas, Capacity = 59 kBtu/h Proposed Efficiency = 80.00% Et. Required Efficiency: 80.00 % Et or 80% AFUE Cooling: 1 each - Single Package DX Unit, Capacity = 33 kBtu/h, Air-Cooled Condenser, No Economizer, Economizer exception: Humidity Requirements: Proposed Efficiency = 15.00 SEER, Required Efficiency: 14.00 SEER Fan System: FAN SYSTEM 1 – Compliance (Motor nameplate HP method) : Passes Fans: FAN 1 Supply, Constant Volume, 1600 CFM, 1.2 motor nameplate hp, 0.9 fan efficiency grade
2	AC-3.4 (Single Zone): Heating: 1 each - Central Furnace, Gas, Capacity = 59 kBtu/h Proposed Efficiency = 80.00% Et. Required Efficiency: 80.00 % Et or 80% AFUE Cooling: 1 each - Single Package DX Unit, Capacity = 45 kBtu/h, Air-Cooled Condenser, No Economizer, Economizer exception: Humidity Requirements: Proposed Efficiency = 15.00 SEER, Required Efficiency: 14.00 SEER Fan System: FAN SYSTEM 2 – Compliance (Motor nameplate HP method) : Passes Fans: FAN 2 Supply, Constant Volume, 2000 CFM, 2.4 motor nameplate hp, 0.9 fan efficiency grade
3	DUD/DCU 1-3 (Single Zone): Cooling: 1 each - Split System, Capacity = 17 kBtu/h, Air-Cooled Condenser, Unknown Economizer Proposed Efficiency = 20.00 SEER, Required Efficiency: 13.00 SEER Fan System: FAN SYSTEM 3 – Compliance (Motor nameplate HP method) : Passes Fans: FAN 3 Supply, Constant Volume, 705 CFM, 0.1 motor nameplate hp, 0.9 fan efficiency grade

Mechanical Compliance Statement
Compliance Statement: The proposed mechanical design represented in this document is consistent with the building plans, specifications, and other calculations submitted with this permit application. The proposed mechanical systems have been designed to meet the 2018 IECC requirements in COMcheck Version 4.1.5.3 and to comply with any applicable mandatory requirements listed in the Inspection Checklist.

Project Title: PHOENIX FIRE STATION #74 Report date: 12/11/23
Data filename: \lfs\1AME-S\Mechanical\2023 Projects\23-088\23-088 Mechanical\COMcheck\23-088 COMcheck.cck Page 1 of 12

GEORGE JOSEPHS, P.E.  12/14/2023

POST AT JOB SITE WITH PERMIT
(General Requirements and Instructions on the backside of form)

TO BE COMPLETED BY REGISTERED DESIGN PROFESSIONAL IN RESPONSIBLE CHARGE

Project Name: PHOENIX FIRE STATION #74	Project Address: 1910 W CHANDLER BLVD., PHOENIX, AZ 85045	Permit No.
Project Owner/Owner's Agent Name: PERLMAN ARCHITECTS	Mailing Address: 2629 N CENTRAL AVE, SUITE #100, PHOENIX, AZ 85012	Phone No. 480.951.5900
Registered Design Professional of Record Name: GEORGE JOSEPHS	Mailing Address: 1121 W WARNER RD, SUITE 107, TEMPE, AZ 85284	Phone No. 480.966.3996
Firm Name: ASSOCIATED MECHANICAL ENGINEERS	Email Address: george@am-engineers.com	Fax No.

I hereby affirm that I am familiar with the design of this project and have been designated by the Owner/owner(s) Agent as the registered design professional in responsible charge for implementing the Mechanical and/or Plumbing Special Inspections Program required by the City of Phoenix Building Construction Code Sections 110.3.10 and 1704. I have determined that the types of work checked below require Mechanical and/or Plumbing Special Inspection. I understand and agree to inform the project owner, the contractor(s), and the special inspector(s) about all the Mechanical and/or Plumbing Special Inspection Program requirements and limitations, including that the Special Inspector(s) must be independent third-party individual(s). Registered Design Professional(s) and shall not be the installing contractor(s).

(Seal, Sign, and Date)
12/14/2023

TYPES OF WORK REQUIRING SPECIAL MECHANICAL/PLUMBING INSPECTION (Attach Supplement if Necessary)

Y	N	Types of Work	Qualified Special Inspector Name and ID Number
<input checked="" type="checkbox"/>	<input type="checkbox"/>	Duct Smoke Detectors	
<input type="checkbox"/>	<input checked="" type="checkbox"/>	Fire and Smoke Damper Operation	
<input checked="" type="checkbox"/>	<input type="checkbox"/>	Installation of Grease Duct Enclosure	GEORGE JOSEPHS
<input type="checkbox"/>	<input checked="" type="checkbox"/>	Smoke Control	
<input type="checkbox"/>	<input checked="" type="checkbox"/>	Medical Gas and Vacuum Systems	
<input type="checkbox"/>	<input checked="" type="checkbox"/>	Ambulatory Care Facilities	

All special inspection reports were reviewed and found to be in conformance with the approved construction documents.

Registered Design Professional  12/14/2023

In responsible charge  Date 12/14/2023

Page 1 of 2

City of Phoenix
PLANNING & DEVELOPMENT DEPARTMENT

Special Inspection Certificate
Mechanical/Plumbing

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<input type="checkbox"/>	<input checked="" type="checkbox"/>	Smoke Control	
<input type="checkbox"/>	<input checked="" type="checkbox"/>	Medical Gas and Vacuum Systems	
<input type="checkbox"/>	<input checked="" type="checkbox"/>	Ambulatory Care Facilities	

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Registered Design Professional  12/14/2023

In responsible charge  Date 12/14/2023

For more information or for a copy of this publication in an alternate format, contact Planning & Development at 602-262-7811 voice or TTY use 7-1-1.
PISpecial Inspection Certificate, Mechanical Plumbing
WEBbed_it.pdf_00276 TRT/DOC/00276 Rev. 03/19

Perlm
Architects of Arizona
2929 North Central Avenue, Suite #1600
Phoenix, Arizona 85012
480.951.3045 f
perlmaz.com

AME PROJECT #23-088

	ASSOCIATED MECHANICAL ENGINEERS, PLLC 1121 W. Warner Rd., Suite 107 Tempe, AZ 85284 480.951.3045 Phone
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Note:
Per City of Phoenix City Code Chapter 2, section 2-28, these plans are for official use only and may not be shared with others except as required to fulfill the obligations of your contract with the City of Phoenix.