



## ADDENDUM #2

ISSUE DATE: March 17, 2015

TO: Holders of Request for Bids # '15/20/B CIP # 507N – Genoveva Chavez  
Community Center (GCCC) Natatorium Dehumidification System Remodeling

FROM: City of Santa Fe Public Works Department, Facilities Division

The following Addendum shall be incorporated into the Bidding/Contract Documents for the above referenced project:

- 1) The highest truss bearing height in the Natatorium is 38'-0".
- 2) The fire rating of the structural steel beam assemblies will require reapplication of fire protection after reinforcing measures are completed.
- 3) All structural steel beams indicated for reinforcing shall be reinforced per the plans.
- 5) Walla Engineering has provided a design for the reinforcing of the existing beams and by virtue of the stamp and signature of a NM Registered PE on these drawings. Walla Engineering assumes full responsibility for the design (NOT CONSTRUCTION) of the beam reinforcing based on the anticipated loads indicated on those drawings. Calculations have been performed and can be submitted if required. Walla Engineering did not prepare or review any specification that required the Contractor to provide stamped calculations for the beam reinforcing but this effort is not required.
- 6) The Response Group (TRG) to verify if exhaust fans in boiler room has explosion proof motors.  
The fans are not required. No changes made to the plans.
- 7) TRG will update the construction drawings to reflect the platform configuration.  
Sheet M-102: Mechanical Renovation Plan has been revised to show and reflect the platform.
- 8) TRG to verify that new disconnect switch is located on unit and note to remove conduit back as required to reroute power up high along wall to avoid new ductwork and equipment.  
This has already been addressed on Keynote 17 /sheet E-101. All conduit and conductor are to be removed back to source.  
Sheet E-101: Revised Keynote Number 1 to read "Coordinate new conduit routing to avoid Mechanical equipment and ductwork."
- 9) TRG will update roof curb detail on sheet M-601.  
Sheet M-601: Revised Detail B5/M-601 - Pool Dehumidifier Unit Roof Curb Detail

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- 10) TRG to note that system controls are internal and come furnished with Mechanical Unit. Sheet M-601: Note has been added to Munters PDU Unit schedule to read: "System controls are internal and shall come furnished with mechanical unit."
- 11) TRG to note "Contractor shall flash below and on the side of exposed ducts on roof with sheet metal to act as a bird screen. Brace as required and coordinate with facilities personal."  
Sheet M-102: Keynote 21 has been added to plan to read "CONTRACTOR SHALL FLASH BELOW AND ON THE SIDE OF EXPOSED DUCTS ON ROOF WITH SHEET METAL TO ACT AS A BIRD BARRIER. FLASH AND SEAL AS REQUIRED FOR NEW ROOF REQUIREMENTS. BRACE AS REQUIRED AND COORDINATE WITH FACILITIES PERSONNEL."
- 12) TRG to coordinate with Allen Anaya @ Climatec for gas demand and will update construction drawings as required.  
Gas demand has been received. The individual gas load for each unit is 1200 MBH with a 10-14" water column, for a total demand of 2400 MBH. The existing gas service has been recently upgraded and is assumed to have sufficient capacity for the planned equipment needs.  
Keynotes were added to the plan showing gas routing, demand and connection requirements. The keynotes have been added to sheet M-101 and M-102. Gas connections are as follows:

Sheet M-102: Revised Keynote 17 to read: "DROP 1-1/4" MEDIUM PRESSURE GAS LINE DOWN THRU ROOF AND ROUTE AND CONNECT TO EXISTING MEDIUM PRESSURE GAS LINE OF SAME SIZE OR LARGER. FIELD VERIFY EXISTING POINT OF CONNECTION WITH FACILITIES PERSONAL. READJUST OR REPLACE EXISTING METER/REGULATOR UP STREAM FOR AN ADDITIONAL LOAD OF 2304 MBH. COORDINATE WITH GAS COMPANY AND FACILITY PERSONNEL TO DETERMINE TOTAL GAS LOAD OF BUILDING AND CONNECTION REQUIREMENTS. FIELD VERIFY EXACT METER/REGULATOR LOCATION. FOR PURPOSE OF ISOLATION AND SAFETY. VERIFY THAT AN ADDITIONAL FULL BORE GAS SHUTOFF IS INSTALLED DOWNSTREAM OF THE SERVING SUPPLIER GAS METER PRIOR TO ANY DISTRIBUTION OF GAS INTO THE PIPING SYSTEM. INSTALL IF REQUIRED. REGULATOR IS ESTIMATED TO BE 200'-0"+/- FROM REGULATOR. IF THERE IS ANY DISCREPANCY IN THE DISTANCE OF PIPING CONTACT THE ENGINEER FOR CLARIFICATION. ROUTE GAS LINE WITH PIPE SUPPORTS EVERY EIGHT FEET ON CENTER AND AT EVERY ELBOW AND TEE. OFFSET 12" FOR EVERY 100'-0" OF STRAIGHT RUN OF GAS PIPE AS REQUIRED PER CODE."

Sheet M-102: Added Keynote 22 to read: "ROUTE 1-1/4" MEDIUM PRESSURE GAS LINE UP THROUGH ROOF TO REGULATOR. PROVIDE AND INSTALL REGULATOR ON ROOF. REGULATOR TO REDUCE PRESSURE DOWN TO 14" W.C. INSTALL PER THE CITY OF SANTA FE, STATE OF NEW MEXICO AND LOCAL UTILITY REQUIREMENTS. COORDINATE AND INSTALL REGULATOR 10'-0" AWAY FROM

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ANY FRESH AIR INTAKES AS REQUIRED. AFTER REGULATOR, TRANSITION TO 3" LOW PRESSURE GAS LINE AND ROUTE TO UNITS AS SHOWN. COORDINATE ROUTING WITH ALL TRADES. PROVIDE PIPE SUPPORTS EVERY EIGHT FEET ON CENTER AND AT EVERY ELBOW AND TEE. PIPE VENT FROM REGULATOR UP ALONG WALL TO A MINIMUM OF 10 FT FORM MECHANICAL FRESH AIR INTAKE."

Sheet M-102: Added Keynote 23 to read: "ROUTE AND CONNECT A 2" GAS CONNECTION TO PDU UNIT FOR A TOTAL CONNECTED LOAD OF 1152 CFH. PROVIDE WITH UNION, GAS COCK, DIRT LEG AND FLEX CONNECTION. COORDINATE POINT OF CONNECTION WITH PDU UNIT MANUFACTURER."

Sheet M-102: Added Keynote 24 to read: "CONNECT A NEW LINE SIZED VENT PIPE TO EXISTING REGULATOR AND ROUTE UP ALONG WALL TO A MINIMUM OF 10 FT FORM MECHANICAL FRESH AIR INTAKE."

Sheet M-101: Note added to Keynotes 1 and 9 to read "EXISTING 1-1/4" LOW PRESSURE GAS LINE CONNECTION SHALL BE REMOVED BACK TO MAIN CONNECTION AND CAPPED."

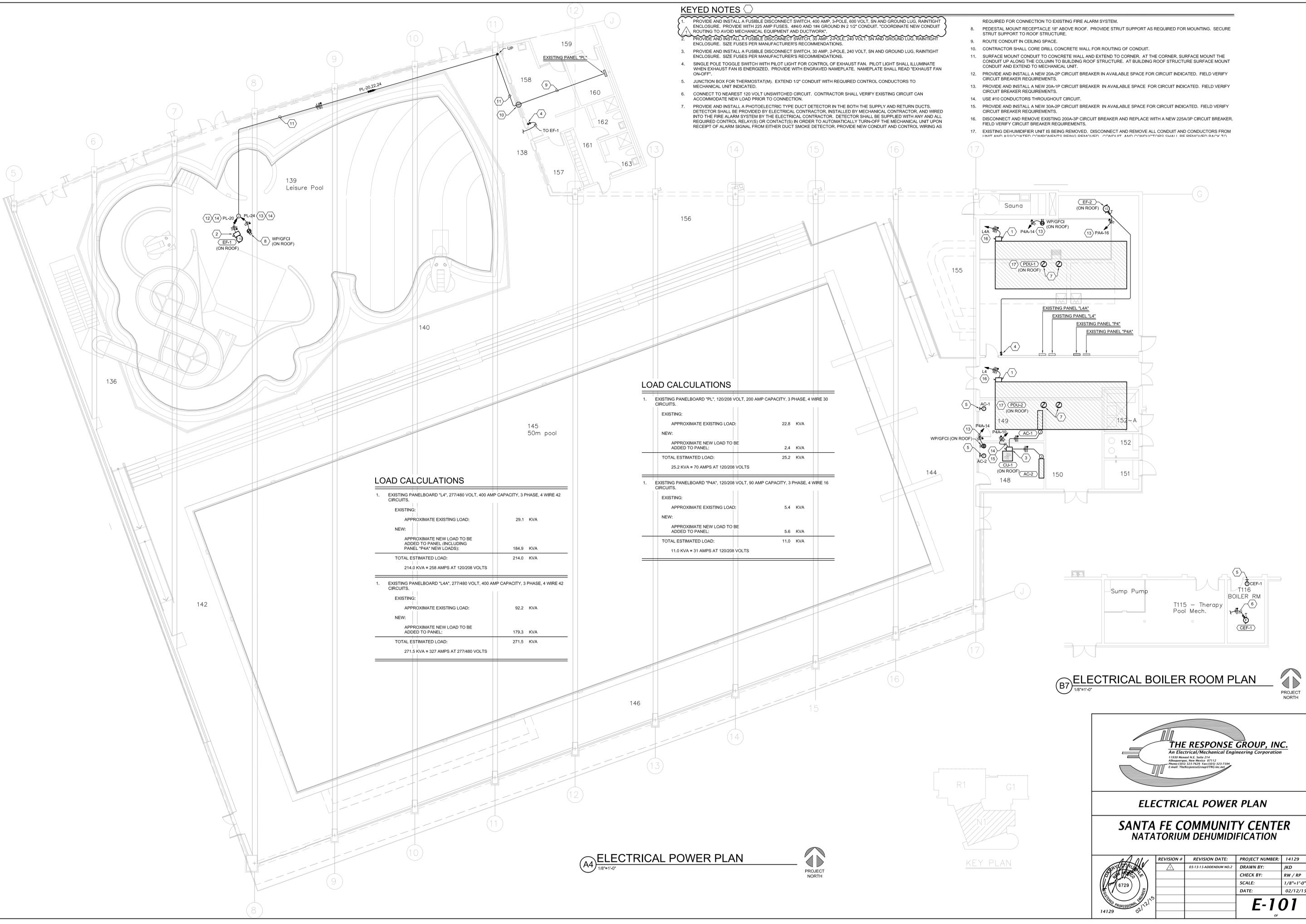
Please acknowledge receipt of this Addendum with the Bid.

Jason M. Kluck  
City of Santa Fe, Public Works Department  
Facilities Division Project Administrator  
Ph. 955-5937  
Fax 955-5939

Bids shall be received until March 24, 2014 (2:00 PM), then opened publicly at the Purchasing Director's office or other designated place, and read out loud. **BIDS RECEIVED AFTER THE ABOVE TIME WILL BE RETURNED UNOPENED.**

END: Addendum Number One (2).

xc: David Pfeifer, Facilities Division Director  
Shirley Rodriguez, Purchasing  
Khamstone Phommavong, The Response Group, Inc.  
Project/Book File



**KEYED NOTES**

1. PROVIDE AND INSTALL A FUSIBLE DISCONNECT SWITCH, 400 AMP, 3-POLE, 800 VOLT, SN AND GROUND LUG, RAINTIGHT ENCLOSURE. PROVIDE WITH 225 AMP FUSES, 4#40 AND 1#4 GROUND IN 2 1/2" CONDUIT. COORDINATE NEW CONDUIT ROUTING TO AVOID MECHANICAL EQUIPMENT AND DUCTWORK.
2. PROVIDE AND INSTALL A FUSIBLE DISCONNECT SWITCH, 30 AMP, 2-POLE, 240 VOLT, SN AND GROUND LUG, RAINTIGHT ENCLOSURE. SIZE FUSES PER MANUFACTURER'S RECOMMENDATIONS.
3. PROVIDE AND INSTALL A FUSIBLE DISCONNECT SWITCH, 30 AMP, 2-POLE, 240 VOLT, SN AND GROUND LUG, RAINTIGHT ENCLOSURE. SIZE FUSES PER MANUFACTURER'S RECOMMENDATIONS.
4. SINGLE POLE TOGGLE SWITCH WITH PILOT LIGHT FOR CONTROL OF EXHAUST FAN. PILOT LIGHT SHALL ILLUMINATE WHEN EXHAUST FAN IS ENERGIZED. PROVIDE WITH ENGRAVED NAMEPLATE. NAMEPLATE SHALL READ "EXHAUST FAN ON-OFF".
5. JUNCTION BOX FOR THERMOSTAT(M). EXTEND 1/2" CONDUIT WITH REQUIRED CONTROL CONDUCTORS TO MECHANICAL UNIT INDICATED.
6. CONNECT TO NEAREST 120 VOLT UNSWITCHED CIRCUIT. CONTRACTOR SHALL VERIFY EXISTING CIRCUIT CAN ACCOMMODATE NEW LOAD PRIOR TO CONNECTION.
7. PROVIDE AND INSTALL A PHOTOELECTRIC TYPE DUCT DETECTOR IN THE BOTH THE SUPPLY AND RETURN DUCTS. DETECTOR SHALL BE PROVIDED BY ELECTRICAL CONTRACTOR, INSTALLED BY MECHANICAL CONTRACTOR, AND WIRED INTO THE FIRE ALARM SYSTEM BY THE ELECTRICAL CONTRACTOR. DETECTOR SHALL BE SUPPLIED WITH ANY AND ALL REQUIRED CONTROL RELAY(S) OR CONTACT(S) IN ORDER TO AUTOMATICALLY TURN-OFF THE MECHANICAL UNIT UPON RECEIPT OF ALARM SIGNAL FROM EITHER DUCT SMOKE DETECTOR. PROVIDE NEW CONDUIT AND CONTROL WIRING AS

8. PEDESTAL MOUNT RECEPTACLE 18" ABOVE ROOF. PROVIDE STRUT SUPPORT AS REQUIRED FOR MOUNTING. SECURE STRUT SUPPORT TO ROOF STRUCTURE.
9. ROUTE CONDUIT IN CEILING SPACE.
10. CONTRACTOR SHALL CORE DRILL CONCRETE WALL FOR ROUTING OF CONDUIT.
11. SURFACE MOUNT CONDUIT TO CONCRETE WALL AND EXTEND TO CORNER. AT THE CORNER, SURFACE MOUNT THE CONDUIT UP ALONG THE COLUMN TO BUILDING ROOF STRUCTURE. AT BUILDING ROOF STRUCTURE SURFACE MOUNT CONDUIT AND EXTEND TO MECHANICAL UNIT.
12. PROVIDE AND INSTALL A NEW 20A-2P CIRCUIT BREAKER IN AVAILABLE SPACE FOR CIRCUIT INDICATED. FIELD VERIFY CIRCUIT BREAKER REQUIREMENTS.
13. PROVIDE AND INSTALL A NEW 20A-1P CIRCUIT BREAKER IN AVAILABLE SPACE FOR CIRCUIT INDICATED. FIELD VERIFY CIRCUIT BREAKER REQUIREMENTS.
14. USE #10 CONDUCTORS THROUGHOUT CIRCUIT.
15. PROVIDE AND INSTALL A NEW 30A-2P CIRCUIT BREAKER IN AVAILABLE SPACE FOR CIRCUIT INDICATED. FIELD VERIFY CIRCUIT BREAKER REQUIREMENTS.
16. DISCONNECT AND REMOVE EXISTING 200A-3P CIRCUIT BREAKER AND REPLACE WITH A NEW 225A/3P CIRCUIT BREAKER. FIELD VERIFY CIRCUIT BREAKER REQUIREMENTS.
17. EXISTING DEHUMIDIFIER UNIT IS BEING REMOVED. DISCONNECT AND REMOVE ALL CONDUIT AND CONDUCTORS FROM UNIT AND ASSOCIATED COMPONENTS BEING DEMOLISHED. POWER OFF AND POWER OFFERS SHALL BE DEMOLISHED BY THE

**LOAD CALCULATIONS**

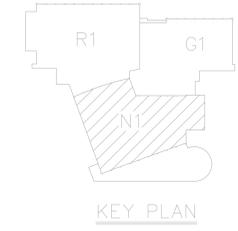
1. EXISTING PANELBOARD "L4", 277/480 VOLT, 400 AMP CAPACITY, 3 PHASE, 4 WIRE 42 CIRCUITS.	
EXISTING:	
APPROXIMATE EXISTING LOAD:	29.1 KVA
NEW:	
APPROXIMATE NEW LOAD TO BE ADDED TO PANEL (INCLUDING PANEL "P4A" NEW LOADS):	184.9 KVA
TOTAL ESTIMATED LOAD:	214.0 KVA
214.0 KVA = 258 AMPS AT 120/208 VOLTS	
1. EXISTING PANELBOARD "L4A", 277/480 VOLT, 400 AMP CAPACITY, 3 PHASE, 4 WIRE 42 CIRCUITS.	
EXISTING:	
APPROXIMATE EXISTING LOAD:	92.2 KVA
NEW:	
APPROXIMATE NEW LOAD TO BE ADDED TO PANEL:	179.3 KVA
TOTAL ESTIMATED LOAD:	271.5 KVA
271.5 KVA = 327 AMPS AT 277/480 VOLTS	

**LOAD CALCULATIONS**

1. EXISTING PANELBOARD "PL", 120/208 VOLT, 200 AMP CAPACITY, 3 PHASE, 4 WIRE 30 CIRCUITS.	
EXISTING:	
APPROXIMATE EXISTING LOAD:	22.8 KVA
NEW:	
APPROXIMATE NEW LOAD TO BE ADDED TO PANEL:	2.4 KVA
TOTAL ESTIMATED LOAD:	25.2 KVA
25.2 KVA = 70 AMPS AT 120/208 VOLTS	
1. EXISTING PANELBOARD "P4A", 120/208 VOLT, 90 AMP CAPACITY, 3 PHASE, 4 WIRE 16 CIRCUITS.	
EXISTING:	
APPROXIMATE EXISTING LOAD:	5.4 KVA
NEW:	
APPROXIMATE NEW LOAD TO BE ADDED TO PANEL:	5.6 KVA
TOTAL ESTIMATED LOAD:	11.0 KVA
11.0 KVA = 31 AMPS AT 120/208 VOLTS	

**B7 ELECTRICAL BOILER ROOM PLAN**  
1/8"=1'-0"

**A4 ELECTRICAL POWER PLAN**  
1/8"=1'-0"



**THE RESPONSE GROUP, INC.**  
An Electrical/Mechanical Engineering Corporation  
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Albuquerque, New Mexico 87112  
Phone: (505) 223-7200 Fax: (505) 223-7294  
E-mail: TheResponseGroup@TRG-inc.net

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**ELECTRICAL POWER PLAN**

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**SANTA FE COMMUNITY CENTER  
NATATORIUM DEHUMIDIFICATION**

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REVISION #	REVISION DATE:	PROJECT NUMBER:	14129
1	03-13-15 ADDENDUM NO.2	DRAWN BY:	JKD
		CHECK BY:	RW / RP
		SCALE:	1/8"=1'-0"
		DATE:	02/12/15

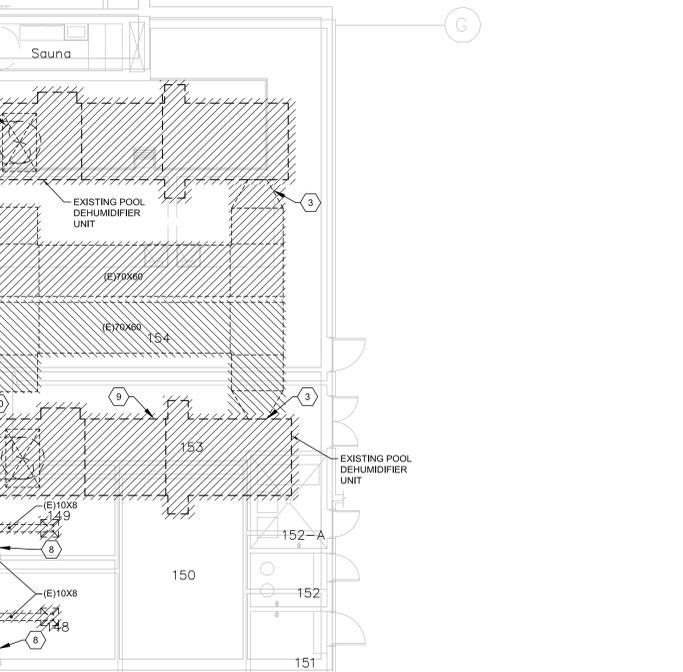
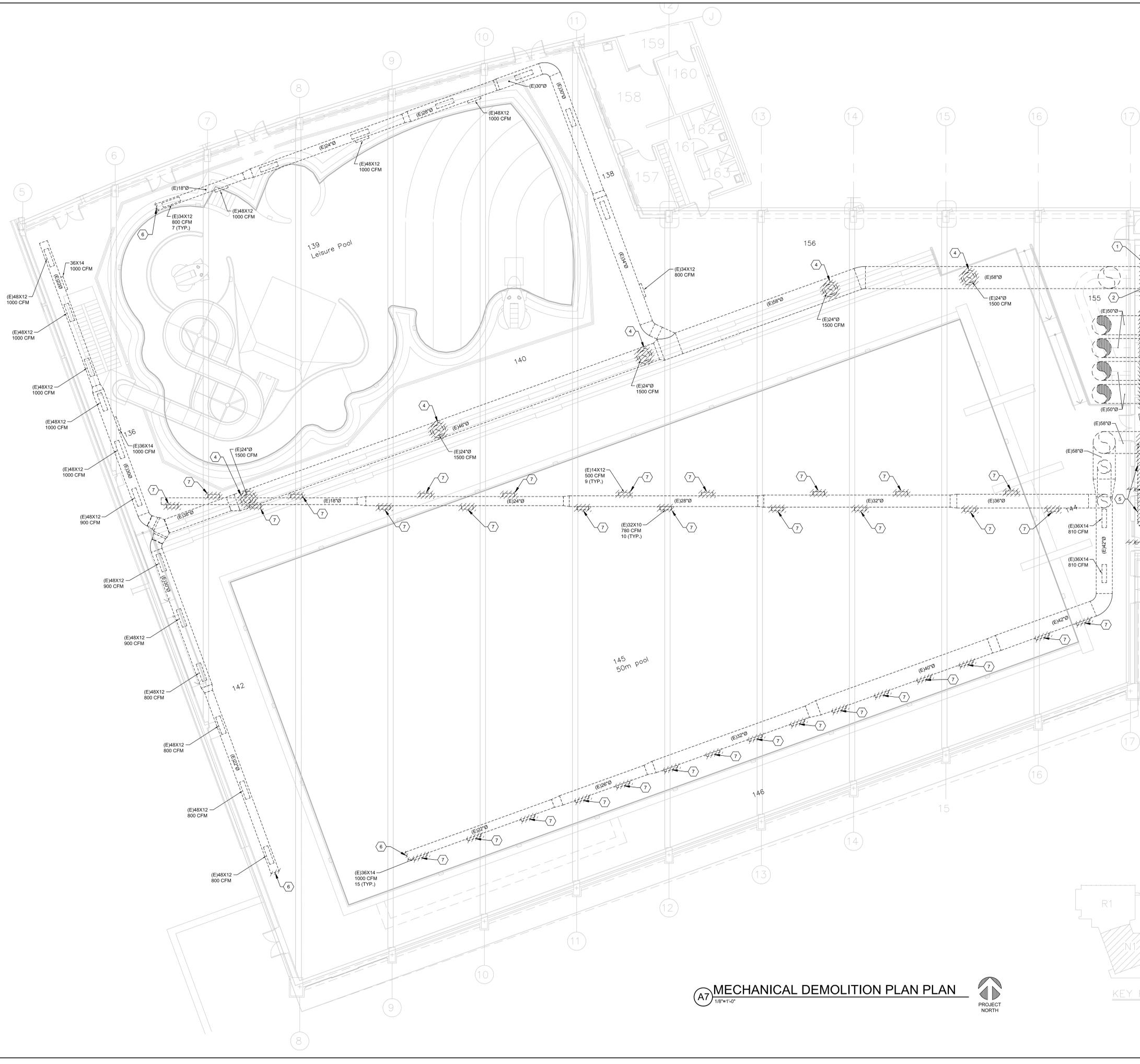
**E-101**  
of

**MECHANICAL DEMOLITION NOTES**

- A. CONTRACTOR SHALL BE RESPONSIBLE FOR REPAIRING AND FINISHING SURFACES (WALLS, FLOORS, CEILINGS) DAMAGED DURING REMOVAL OF EQUIPMENT AND PIPING.
- B. CONTRACTOR SHALL RETURN ALL MECHANICAL EQUIPMENT, PIPING, ETC. TO OWNER IN ACCORDANCE WITH DIRECTION OF TENANT IMPROVEMENTS. IF OWNER DOES NOT WISH TO RETAIN THE REMOVED ITEMS, CONTRACTOR SHALL THEN PROPERLY DISPOSE OF REMOVED ITEMS ACCORDINGLY.
- C. EXISTING DUCT AND PIPE ROUTING, EQUIPMENT LOCATIONS ARE APPROXIMATE ONLY. EACH BIDDER SHALL SATISFY HIMSELF AS TO EXISTING BUILDING CONDITIONS BEFORE SUBMITTING THEIR BID. NO ALLOWANCE SHALL BE MADE AFTER CONTRACT IS AWARDED TO ALLOW FOR LACK OF PRE-BID INSPECTION OF BUILDING BY SUCCESSFUL BIDDER.
- D. COORDINATE WORK WITH OTHER TRADES TO MINIMIZE CONFLICTS AND "DOWN TIME".
- E. ALL EQUIPMENT, DUCTWORK, DIFFUSERS AND GRILLES NOT INDICATED TO BE REMOVED WITH HATCHING SHALL REMAIN.
- F. FIELD VERIFY ALL DIMENSIONS AND CONDITIONS PRIOR TO COMMENCEMENT OF WORK. SHOULD ANY DISCREPANCIES BE DISCOVERED, VERIFY INTENT WITH THE ENGINEER BEFORE PROCEEDING.
- G. MAINTAIN ALL MECHANICAL, ELECTRICAL, PLUMBING AND COMMUNICATION SERVICES TO OWNER'S OPERATIONAL AREAS WHILE PERFORMING WORK. PROVIDE ALL BYPASS, CROSS CONNECTIONS AND/OR TEMPORARY ROUTINGS AND CONNECTIONS AS REQUIRED TO INSURE FULL OPERATION OF ALL SERVICES TO ALL AREAS NOT UNDER CONSTRUCTION AT NO ADDITIONAL COST TO OWNER.

**MECHANICAL GENERAL NOTES**

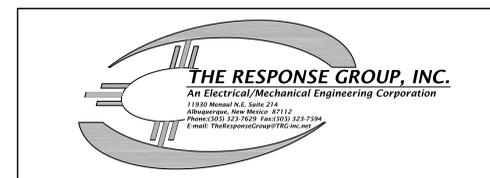
- A. REFER TO SHEET M3 FOR MECHANICAL GENERAL NOTES.



**KEYED NOTES**

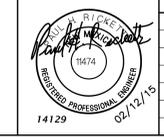
1. EXISTING MECHANICAL POOL DEHUMIDIFIER AIR HANDLING UNIT SHALL BE REMOVED COMPLETE FOR INSTALLATION OF NEW AHU IN NEW WORK. EXISTING UNIT DRAINS SHALL BE REMOVED COMPLETE. EXISTING 1-1/4" LOW PRESSURE GAS LINE CONNECTION SHALL BE DISCONNECTED AND REMOVED BACK TO MAIN AND CAPPED. EXISTING HOT WATER RETURN FROM HEATING COIL SHALL BE DISCONNECTED AND ROUTED TO NEW AHU UNIT IN NEW WORK. REFER TO SHEET M2 FOR NEW WORK AND ADDITIONAL INFORMATION. FIELD VERIFY EXISTING CONDITIONS AND EXACT LOCATION OF ALL EXISTING PIPING. MECHANICAL EQUIPMENT AND DUCTWORK, COORDINATE WITH ELECTRICAL. THIS AHU UNIT SHALL BE REMOVED FIRST PRIOR TO REMOVING SECOND UNIT. COORDINATE WITH FACILITIES PERSONAL PRIOR TO REMOVAL AND DISCONNECTION.
2. REMOVE EXISTING SUPPLY AIR DUCTWORK AS REQUIRED FOR DEMOLITION AND FOR NEW AHU INSTALLATION REQUIREMENTS. REFER TO SHEET M2 FOR ADDITIONAL INFORMATION. THIS PORTION OF DUCT WORK SHALL BE REMOVED FIRST PRIOR TO REMOVING DUCTWORK AT SECOND UNIT. COORDINATE WITH FACILITIES PERSONAL PRIOR TO REMOVAL AND DISCONNECTION.
3. REMOVE EXISTING RETURN AIR DUCTWORK BACK TO EXTENT SHOWN AS REQUIRED FOR AHU DEMOLITION AND FOR NEW AHU UNIT INSTALLATION REQUIREMENTS. REFER TO SHEET M-102 FOR ADDITIONAL INFORMATION. THIS PORTION OF DUCT WORK SHALL BE REMOVED FIRST PRIOR TO REMOVING DUCTWORK AT SECOND UNIT. COORDINATE WITH FACILITIES PERSONAL PRIOR TO REMOVAL AND DISCONNECTION.
4. REMOVE EXISTING ROUND SUPPLY AIR DIFFUSER, AT BOTTOM OF DUCT MAIN, AND DUCT COMPLETE BACK TO MAIN SUPPLY BRANCH, CAP, AND SEAL AIRTIGHT. FIELD VERIFY EXISTING CONDITIONS AND EXACT LOCATION. PAINT DUCTWORK AS REQUIRED TO MATCH EXISTING.
5. REMOVE EXISTING SUPPLY AIR REGISTERS AND DUCT COMPLETE BACK TO MAIN SUPPLY BRANCH, CAP, AND SEAL AIRTIGHT. FIELD VERIFY EXISTING CONDITIONS AND EXACT LOCATION.
6. REMOVE END CAP OF EXISTING DUCT.
7. REMOVE EXISTING SUPPLY REGISTER, SEAL OPENING AIRTIGHT.
8. REMOVE EXISTING DOOR LOWER, SEAL OPENING WITH NEW PANEL AND PAINT TO MATCH DOOR.
9. EXISTING MECHANICAL POOL DEHUMIDIFIER AIR HANDLING UNIT SHALL BE REMAIN OPERATIONAL DURING THE DEMOLITION OF THE FIRST AHU UNIT. CONTRACTOR SHALL PROVIDE AN ALLOWANCE FOR PRESERVATION OF BASIC FUNCTION OF THE EXISTING SOUTH AHU AND REPAIR AND REPLACE ANY INTERNAL COMPONENTS AS REQUIRED TO ENSURE THAT IT REMAINS IN OPERATION OR OPERABLE AT ALL TIMES, WITH THE EXCEPTION OF COORDINATED SHUT-DOWN PERIODS. PRIOR TO ITS REPLACEMENT, WHEN NEW EQUIPMENT IS ON SITE AND READY FOR INSTALLATION THEN THIS UNIT SHALL BE REMOVED COMPLETE FOR INSTALLATION OF NEW AHU UNIT. AT TIME OF DEMOLITION THE EXISTING UNIT DRAINS SHALL BE REMOVED COMPLETE. EXISTING 1-1/4" LOW PRESSURE GAS LINE CONNECTION SHALL BE DISCONNECTED AND REMOVED BACK TO MAIN AND CAPPED. EXISTING HOT WATER SUPPLY AND HOT WATER RETURN FROM HEATING COIL SHALL BE DISCONNECTED AND ROUTED TO NEW AHU UNIT IN NEW WORK. REFER TO SHEET M2 FOR NEW WORK AND ADDITIONAL INFORMATION. FIELD VERIFY EXISTING CONDITIONS AND EXACT LOCATION OF ALL EXISTING PIPING, MECHANICAL EQUIPMENT AND DUCTWORK, COORDINATE WITH ELECTRICAL. COORDINATE WITH FACILITIES PERSONAL PRIOR TO REMOVAL AND DISCONNECTION.
10. EXISTING SUPPLY AIR DUCTWORK SHALL REMAIN DURING THE DEMOLITION OF THE FIRST AHU UNIT. WHEN NEW EQUIPMENT IS ON SITE AND READY FOR INSTALLATION THEN THIS SUPPLY DUCTWORK SHALL BE REMOVED COMPLETE FOR INSTALLATION OF NEW AHU UNIT. REFER TO SHEET M-102 FOR ADDITIONAL INFORMATION. COORDINATE WITH FACILITIES PERSONAL PRIOR TO REMOVAL AND DISCONNECTION.

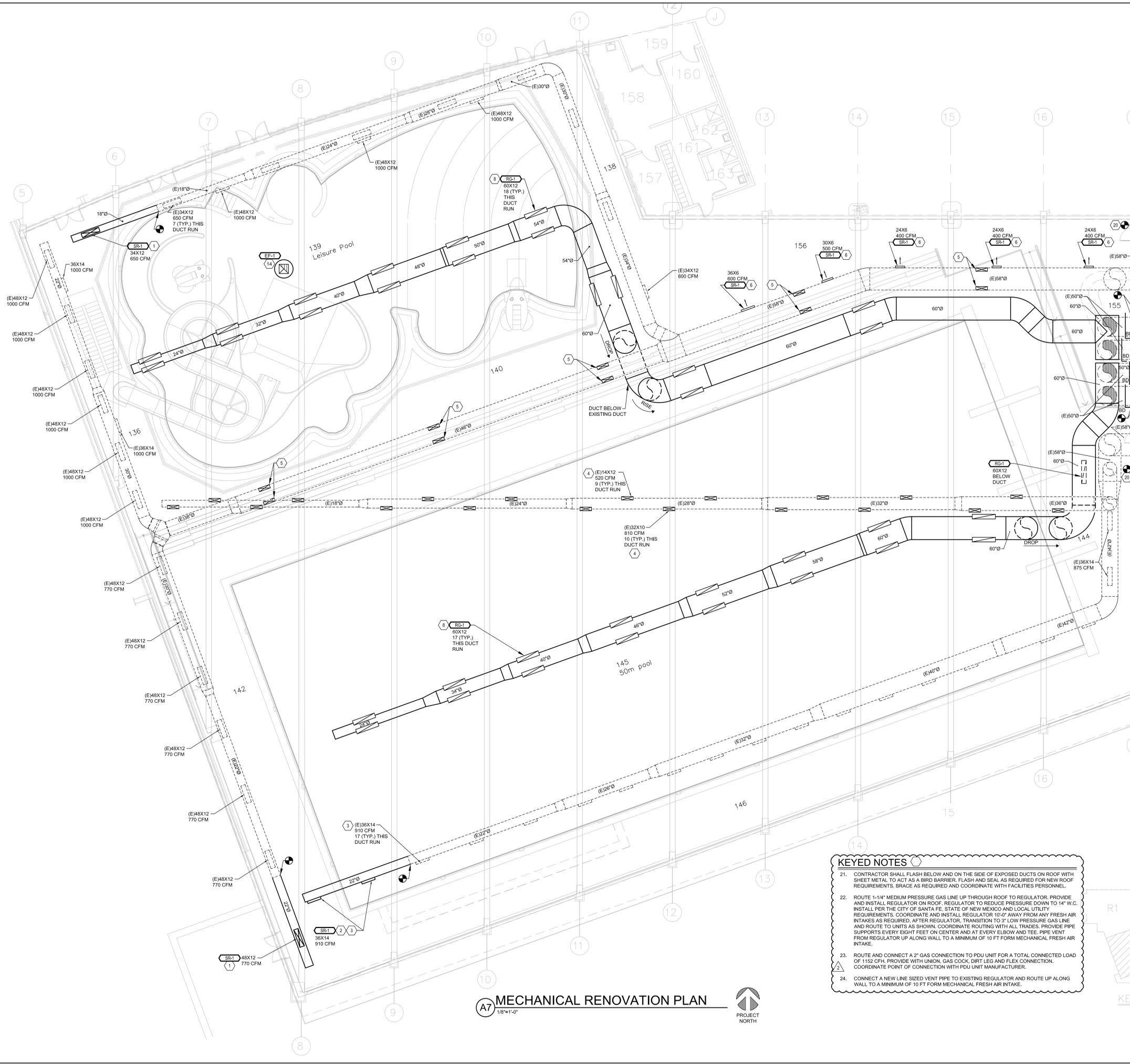
**(A7) MECHANICAL DEMOLITION PLAN PLAN**  
1/8"=1'-0"



**MECHANICAL DEMOLITION PLAN**  
**SANTA FE COMMUNITY CENTER**  
**NATATORIUM DEHUMIDIFICATION**

REVISION #	REVISION DATE:	PROJECT NUMBER:	14129
1	03-13-15 ADDENDUM NO.2	DRAWN BY:	MAR
		CHECK BY:	KP/PR
		SCALE:	1/8"=1'-0"
		DATE:	02/12/15
<b>M-101</b>			or





**D7 MECHANICAL BOILER ROOM PLAN**  
1/8"=1'-0"



**MECHANICAL GENERAL NOTES**

- A. REFER TO SHEET M-601 FOR MECHANICAL GENERAL NOTES.
- B. BALANCE EXISTING SUPPLY REGISTERS TO CFM SHOWN.

**KEYED NOTES**

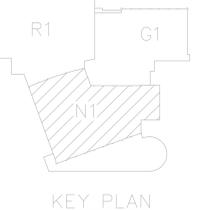
1. NEW SIDEWALL TYPE SUPPLY REGISTER SR-1, MOUNTED ON BOTTOM OF NEW DUCT, MOUNT AT SAME ANGLE TO MATCH EXISTING REGISTERS. SEE DETAIL ON SHEET M-601.
2. NEW SIDEWALL TYPE SUPPLY REGISTER SR-1, MOUNTED ON SIDE OF NEW DUCT. MOUNT AT SAME ANGLE TO MATCH EXISTING REGISTERS.
3. ADJUST DOWNWARD THE FACE BLADES OF REGISTER TO DISCHARGE AIR TO "WASH" THE FACE OF THE EXISTING WINDOW.
4. NEW LOCATION OF EXISTING SIDEWALL REGISTERS ON EXISTING SUPPLY DUCT. ANGLE DISCHARGE UPWARDS AT 30 DEG., AS PER DETAIL ON SHEET M-601.
5. NEW 30"x 8" SIDEWALL SUPPLY REGISTER SR-1, 530 CFM, MOUNTED ON EXISTING SUPPLY DUCT. ANGLE DISCHARGE UPWARDS AT 30 DEG., AS PER DETAIL ON SHEET M-601.
6. NEW SIDEWALL TYPE REGISTER MOUNTED ON EXISTING SUPPLY DUCT AND SET TO DISCHARGE DOWNWARD AT 30 DEG. ANGLE. SEE DETAIL ON SHEET M-601.
7. NEW 60" DIA. RETURN AIR DUCT PLENUM. CONNECT TWO EXISTING ROUND RETURN AIR DUCTS TO BOTTOM OF PLENUM.
8. NEW 60"x 12" RETURN AIR GRILLE RG-1, MOUNTED ON TOP OF NEW DUCT AND ANGLED UPWARDS 30 DEG. SEE DETAIL ON SHEET M-601.
9. NEW AC UNIT MOUNTED 6" BELOW EXISTING CEILING.
10. REFRIGERANT PIPING, SIZED AS PER MANUFACTURER'S RECOMMENDATION, INSULATED AND ROUTED IN CEILING SPACE. SEE DETAIL ON SHEET M-601.
11. REFRIGERANT PIPING UP THROUGH EXISTING ROOF. INSULATE PIPES ON ROOF AND PROVIDE WITH ALUMINUM JACKETING. SEE DETAIL ON SHEET M-601.
12. CONDENSING UNIT CU-1 MOUNTED ON ROOF. SEE DETAIL ON SHEET M-601.
13. PROVIDE CEILING MOUNTED EXHAUST FAN. ROUTE 6"Ø EXHAUST DUCT AS SHOWN TO EXISTING ROOF PENETRATION TRANSITION AS REQUIRED AND TERMINATE WITH ROOF CAP EQUAL TO GREENHECK RC-7, COORDINATE WITH STRUCTURE. PROVIDE A ROOF JACK, STORM COLLAR AND ALL-WEATHER CAP. INTERLOCK OPERATION OF EXHAUST FAN WITH LIGHT SWITCH. REFER TO EQUIPMENT SCHEDULE, DETAILS AND ELECTRICAL DRAWINGS FOR ADDITIONAL INFORMATION. CONTRACTOR SHALL FIELD VERIFY EXACT LOCATION AND CONDITION OF EXISTING ROOF PENETRATION.
14. NEW ROOF MOUNTED EXHAUST FAN ON NEW 12" HIGH ROOF CURB. INSTALL NEW EXHAUST FAN PER POWER EXHAUST FAN DETAIL ON SHEET M3. FIELD COORDINATE AND LOCATE NEW EXHAUST FAN BETWEEN JOIST SPACING. BRACE, FLASH, SEAL AND REPAIR EXISTING ROOF AS REQUIRED FOR NEW EXHAUST FAN INSTALLATION. NEW EXHAUST FAN WILL BE INSTALLED IN NEW LOCATION A MINIMUM OF 10' AWAY FROM ANY MECHANICAL AIR INTAKE. COORDINATE WITH ELECTRICAL FOR CONNECTION OF NEW FAN. ELECTRICAL TO EXTEND ELECTRICAL CONDUIT, POWER AND CONTROL WIRING AS REQUIRED TO NEW EXHAUST FAN LOCATION.

**KEYED NOTES**

17. DROP 1-1/4" MEDIUM PRESSURE GAS LINE DOWN THRU ROOF AND ROUTE AND CONNECT TO EXISTING MEDIUM PRESSURE GAS LINE OF SAME SIZE OR LARGER. FIELD VERIFY EXISTING POINT OF CONNECTION WITH FACILITIES PERSONNEL. READJUST OR REPLACE EXISTING METER/REGULATOR UP STREAM FOR AN ADDITIONAL LOAD OF 2304 MBH. COORDINATE WITH GAS COMPANY AND FACILITY PERSONNEL TO DETERMINE TOTAL GAS LOAD OF BUILDING AND CONNECTION REQUIREMENTS. FIELD VERIFY EXACT METER/REGULATOR LOCATION. FOR PURPOSE OF ISOLATION AND SAFETY, VERIFY THAT AN ADDITIONAL FULL SIZE GAS SHUTOFF IS INSTALLED DOWNSTREAM OF THE SERVING SUPPLIER GAS METER PRIOR TO ANY DISTRIBUTION OF GAS INTO THE PIPING SYSTEM. INSTALL IF REQUIRED. REGULATOR IS ESTIMATED TO BE 200'-0" FROM REGULATOR. IF THERE IS ANY DISCREPANCY IN THE DISTANCE OF PIPING CONTACT THE ENGINEER FOR CLARIFICATION. ROUTE GAS LINE WITH PIPE SUPPORTS EVERY EIGHT FEET ON CENTER AND AT EVERY ELBOW AND TEE. OFFSET 12" FOR EVERY 100'-0" OF STRAIGHT RUN OF GAS PIPE AS REQUIRED PER CODE.
18. REROUTE AND EXTEND EXISTING CONDENSATE DRAIN TO NEW UNIT CONNECTION. VERIFY CONNECTION SIZES AND CONNECT WITH P-TRAP PER MANUFACTURERS REQUIREMENTS. PATCH AND REPAIR ROOF AS REQUIRED.
19. REROUTE AND EXTEND AND CONNECT ALL EXISTING POTABLE WATER PIPING TO NEW PIPE CONNECTION LOCATION. REFER TO MANUFACTURERS REQUIREMENTS FOR PIPE SIZE AND GPM REQUIREMENTS. PATCH AND REPAIR ROOF AS REQUIRED.
20. TRANSITION DUCT AS REQUIRED AND CONNECT TO NEW UNIT. PROVIDE WITH FLEX CONNECTION TO UNIT.
21. CONTRACTOR SHALL FLASH BELOW AND ON THE SIDE OF EXPOSED DUCTS ON ROOF WITH SHEET METAL TO ACT AS A BIRD BARRIER. FLASH AND SEAL AS REQUIRED FOR NEW ROOF REQUIREMENTS. BRACE AS REQUIRED AND COORDINATE WITH FACILITIES PERSONNEL.
22. ROUTE 1-1/4" MEDIUM PRESSURE GAS LINE UP THROUGH ROOF TO REGULATOR. PROVIDE AND INSTALL REGULATOR ON ROOF. REGULATOR TO REDUCE PRESSURE DOWN TO 14" W.C. INSTALL PER THE CITY OF SANTA FE, STATE OF NEW MEXICO AND LOCAL UTILITY REQUIREMENTS. COORDINATE AND INSTALL REGULATOR 10'-0" AWAY FROM ANY FRESH AIR INTAKES AS REQUIRED. AFTER REGULATOR, TRANSITION TO 3" LOW PRESSURE GAS LINE AND ROUTE TO UNITS AS SHOWN. COORDINATE ROUTING WITH ALL TRADES. PROVIDE PIPE SUPPORTS EVERY EIGHT FEET ON CENTER AND AT EVERY ELBOW AND TEE. PIPE VENT FROM REGULATOR UP ALONG WALL TO A MINIMUM OF 10 FT FORM MECHANICAL FRESH AIR INTAKE.
23. ROUTE AND CONNECT A 2" GAS CONNECTION TO PDU UNIT FOR A TOTAL CONNECTED LOAD OF 1152 CFM. PROVIDE WITH UNION, GAS COCK, DIRT LEG AND FLEX CONNECTION. COORDINATE POINT OF CONNECTION WITH PDU UNIT MANUFACTURER.
24. CONNECT A NEW LINE SIZED VENT PIPE TO EXISTING REGULATOR AND ROUTE UP ALONG WALL TO A MINIMUM OF 10 FT FORM MECHANICAL FRESH AIR INTAKE.
25. INSTALL NEW DEHUMIDIFICATION UNIT ON ROOF WITH INSULATED ALUMINUM LINED ROOF CURB PER MANUFACTURERS REQUIREMENTS. ROOF CURB SHALL ACT AS RETURN AIR PLENUM AND SHALL BE SUPPLIED AS A 3-PIECE SYSTEM. IT SHALL INCLUDE 2 UNIT CURBS WITH VIBRATION AND SOUND PACKAGES AND ONE INTERCONNECTING CURB. CONTRACTOR SHALL CONNECT AND INSTALL TOGETHER AND SEAL WEATHER TIGHT. COORDINATE LOCATION WITH STRUCTURAL REINFORCEMENT. MAKE ALL REQUIRED CONNECTIONS AS REQUIRED FOR A COMPLETE OPERATING SYSTEM PER MANUFACTURERS REQUIREMENTS. EACH UNIT SHALL INCLUDE A PIP WALKWAY SYSTEM INSTALLED ON ROOF. COORDINATE WITH SUPPLIER FOR COMPLETE SPECIFICATION AND REQUIREMENTS.
26. REROUTE AND EXTEND AND CONNECT ALL EXISTING HYDRAULIC PIPING TO NEW LOCATION OF HEATING COILS. REFER TO MANUFACTURERS REQUIREMENTS FOR PIPE SIZE AND GPM REQUIREMENTS. PATCH AND REPAIR ROOF AS REQUIRED.

**KEYED NOTES**

21. CONTRACTOR SHALL FLASH BELOW AND ON THE SIDE OF EXPOSED DUCTS ON ROOF WITH SHEET METAL TO ACT AS A BIRD BARRIER. FLASH AND SEAL AS REQUIRED FOR NEW ROOF REQUIREMENTS. BRACE AS REQUIRED AND COORDINATE WITH FACILITIES PERSONNEL.
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**A7 MECHANICAL RENOVATION PLAN**  
1/8"=1'-0"





**MECHANICAL RENOVATION PLAN**

**SANTA FE COMMUNITY CENTER  
NATATORIUM DEHUMIDIFICATION**

REVISION #	REVISION DATE	PROJECT NUMBER: 14129	DRAWN BY: MAR
1	03-03-15 ADDENDUM NO. 1		CHECK BY: KP/PR
2	03-13-15 ADDENDUM NO. 2		SCALE: 1/8"=1'-0"
			DATE: 02/12/15

M-102

OF

AIR CONDITIONING UNIT SCHEDULE									
MARK	SERVES	MAX CFM	COOLING CAPACITY	HEATING CAPACITY	ELECTRICAL DATA		APPROX. WT. (LBS.)	MANUFACTURER AND MODEL #	
					VOLT/PHASE	HEATING POWER INPUT (KW)			MAX FUSE SIZE
AC-1	WATER FACILITY ROOM	350	11,200 BTUH	13,700 BTUH	208/1	1KW	SEE NOTE 2	23	LG LS121HSV3
AC-2	WATER FACILITY ROOM	350	11,200 BTUH	13,700 BTUH	208/1	1KW	SEE NOTE 2	23	LG LS121HSV3

- NOTES:
1. PROVIDE ALL SERVICE AND OPERATIONAL CLEARANCES AS REQUIRED, INCLUDING ALL CLEARANCES REQUIRED BY NEC ARTICLE 110.
  2. ELECTRICAL DIVISION SHALL EXTEND LINE VOLTAGE ELECTRICAL SERVICE TO AC UNIT FROM ASSOCIATED CONDENSING UNIT AS REQUIRED.
  3. MAXIMUM COOLING CAPACITIES ARE LISTED FOR 80° F DB / 67° F WB INDOOR, 95° F DB OUTDOOR.
  4. COOLING CAPACITY LISTED FOR SEA LEVEL CONDITIONS.
  5. R-410A REFRIGERANT COMPATIBLE.
  6. ROUTE CONDENSING SPACE TO SINK TRAP WITH AIR GAP, AS SHOWN IN PLANS.
  7. PROVIDE WITH LOCAL CONTROL SYSTEM.
- ACCESSORIES:
1. 7-DAY PROGRAMMABLE WIRED CONTROLLER THERMOSTAT.
  2. CLEANABLE FILTERS.
  3. CONDENSATE PUMP

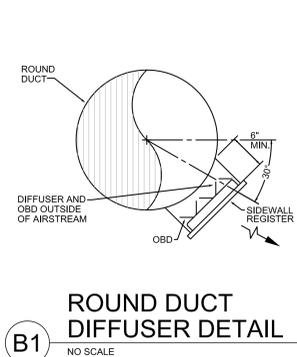
AIR COOLED CONDENSING UNIT SCHEDULE							
MARK	SERVES	SEER	ELECTRICAL DATA		APPROX. WT. (LBS.)	MANUFACTURER AND MODEL #	
			VOLT/PHASE	MCA			MOP
CU-1	AC-1 AC-2	16	208/1	10AMP	15	75	LG LSU121HSV3

- NOTES:
1. SIZE AND INSTALL REFRIGERANT PIPING BETWEEN CONDENSING UNITS AND ASSOCIATED AIR CONDITIONING UNITS ACCORDING TO MANUFACTURER'S REQUIREMENTS. PIPING SHALL NOT EXCEED LENGTH ALLOWED BY MANUFACTURER.
  2. ACCESSORIES: HIGH AND LOW AMBIENT CONTROLS, WINTER START CONTROL, WIND Baffles, TIME DELAY RELAY, CYCLE PROTECTOR, TXV, LOW AND HIGH PRESSURE SWITCHES.
  3. PROVIDE CRANKCASE HEATER AND/OR FILTER DRIER IF RECOMMENDED BY MANUFACTURER.
  4. ALL CONDENSING UNIT CONTROL WIRING SHALL BE PROVIDED AND INSTALLED BY MECHANICAL DIVISION.
  5. SEER RATING LISTED IS FOR CONDENSING UNIT PAIRED WITH ASSOCIATED AIR CONDITIONING OR AIR HANDLING UNIT.
  6. PROVIDE ALL SERVICE AND OPERATIONAL CLEARANCES AS REQUIRED, INCLUDING ALL CLEARANCES REQUIRED BY NEC ARTICLE 110.
  7. R-410A REFRIGERANT COMPATIBLE.

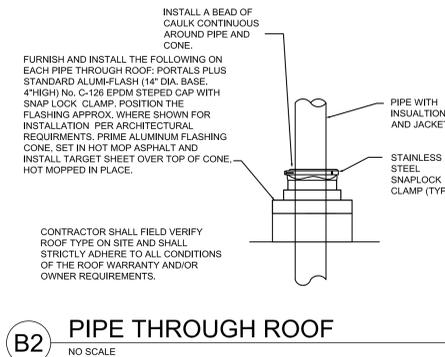
EXHAUST FAN SCHEDULE									
MARK	SERVICE/ MOUNTING	CFM	EXT. SP.	RPM	WATT/HP	VOLTS/ PHASE	SONES	DRIVE	MANUFACTURER AND MODEL #
CEF-1	MECHANICAL CEILING	150	0.375"	751	150 W	115/1	1.6	DIRECT	GREENHECK SP-B150
EF-1	KID POOL ROOF	5,000	0.25"	1398	1-1/2	115/1	24	DIRECT	GREENHECK CUBE-180-15
EF-2	MECHANICAL ROOM 154	500	0.25"	1445	1/2	115/1	7	DIRECT	GREENHECK G-103HP

- NOTES:
1. PROVIDE ALL FANS WITH VIBRATION ISOLATION.
  2. SUPPORT ALL DIRECT DRIVE FANS FROM STRUCTURE AS REQUIRED.
  3. PROVIDE ALL FANS WITH BACKDRAFT DAMPERS.
  4. PROVIDE EXHAUST DUCTS WITH WALL/ROOF CAPS.
  5. PROVIDE EACH DIRECT DRIVE FAN WITH A VARI-GREEN ECM TYPE MOTOR IF LISTED, OR WITH A SOLID-STATE SPEED CONTROLLER MOUNTED ON FAN HOUSING.
  6. PROVIDE ALL INLINE FANS WITH INTERNAL SOUND ABSORBING INSULATED HOUSINGS (1/2" THICK).
  7. PROVIDE ALL SERVICE AND OPERATIONAL CLEARANCES AS REQUIRED, INCLUDING ALL CLEARANCES REQUIRED BY NEC ARTICLE 110.
  8. ALL FANS SHALL BE INSTALLED IN ACCESSIBLE LOCATIONS.
  9. PROVIDE OVERHEAD SUPPORTS BRACKETS.
- SEQUENCE OF OPERATION:
- CEF-1: INTERLOCK WITH WALL THERMOSTAT  
 EF-1: INTERLOCK WITH WALL SWITCHES  
 EF-2: INTERLOCK WITH WALL SWITCHES
- ELECTRICAL DIVISION SHALL PROVIDE ALL SWITCHES AND SENSORS. ELECTRICAL DIVISION SHALL BE RESPONSIBLE FOR ALL INTERLOCKS WITH OCCUPANCY SENSORS, SWITCHES AND THERMOSTATS. REFER TO ELECTRICAL DRAWINGS. CONTROLS CONTRACTOR SHALL PROVIDE AND INSTALL CONTROL WIRING. CONTROL WIRING SHALL BE FLEMING RATED OR INSIDE CONDUIT.

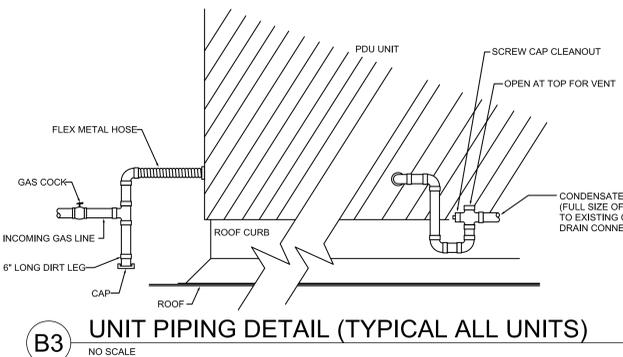
AIR DISTRIBUTION DEVICE SCHEDULE					
SYMBOL	DESCRIPTION	MANUFACTURER AND MODEL #	MATERIAL	FINISH	REMARKS
SR-1	SIDEWALL SUPPLY REGISTER	KRUEGER 5880H OR TITUS 300FL	ALUMINUM	BAKED ENAMEL WHITE	DOUBLE DEFLECTION TYPE WITH HORIZONTAL FACE ADJUSTABLE LOUVER BLADES. 3/4" BAR SPACING, SIZE AS SHOWN ON PLANS.
RG-1	SIDEWALL RETURN AIR GRILLE	KRUEGER 5580VZ OR TITUS 3502FL	ALUMINUM	BAKED ENAMEL WHITE	FIXED HORIZONTAL BLADES ON 3/4" CENTERS. SET AT 0 DEGREES. SIZE AS SHOWN ON PLAN.



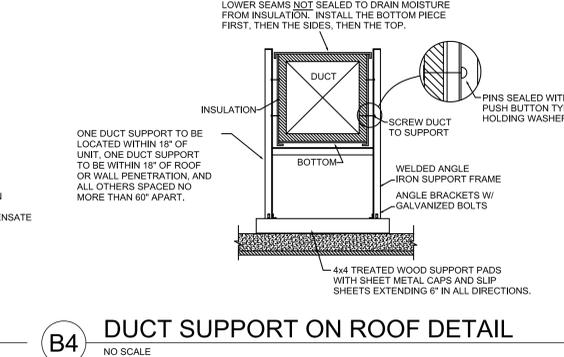
B1 NO SCALE



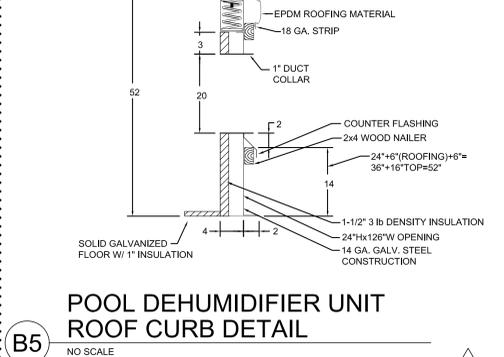
B2 NO SCALE



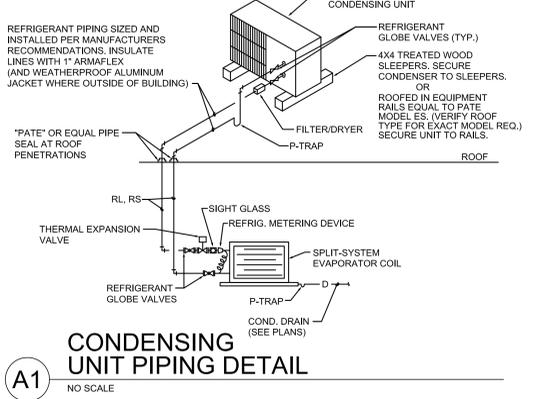
B3 NO SCALE



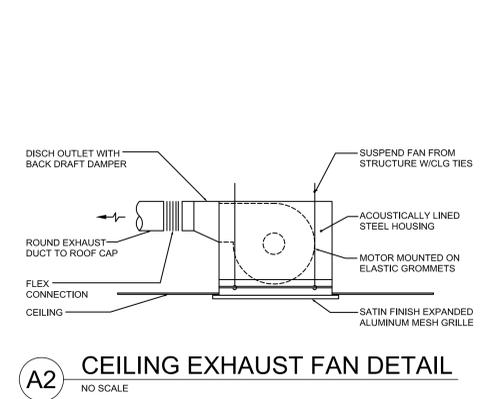
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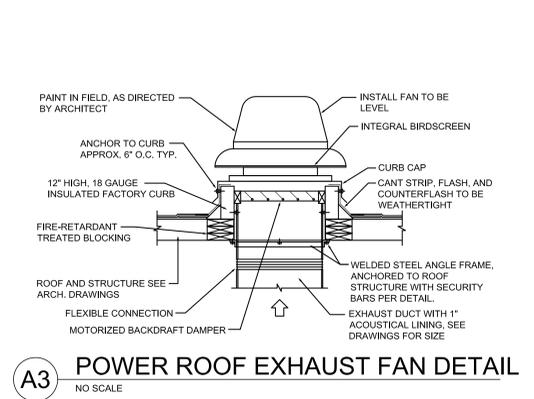
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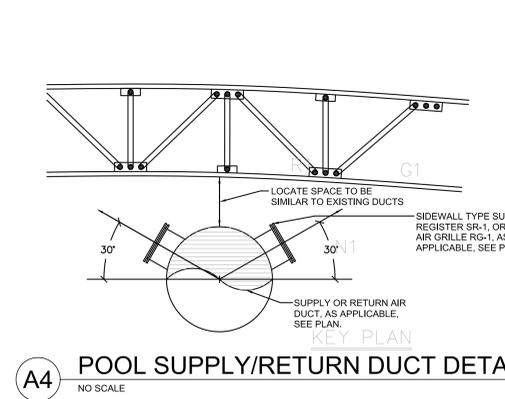
A1 NO SCALE



A2 NO SCALE



A3 NO SCALE



A4 NO SCALE

**Munters** Unit Performance

General	Unit Tag	PDU1-2
	Unit Type	NZP
Fan Data	Model Number	PV-MZP-8730/10
	Type	Supply (Two Fans) Exhaust (Two Fans)
Electrical	Airflow (SCFM)	30,000
	External Static Pressure (in WG)	1.8
Electrical	Motor Horsepower (HP)	20 (each fan)
	VOLTS/PHASE	FLA (AMPS) MCA (AMPS) Max Phase (AMPS)
Electrical	480V/3	207 216 225

Unit layout will vary, see mechanical drawings for details.

Operating Point	Summer (DB Design)			Summer (WB Design)			Winter		
	DB (F)	WB (F)	CFM	DB (F)	WB (F)	CFM	DB (F)	WB (F)	CFM
1(O/A)	95	62	19,000	78.0	60.0	23,000	0	0.0	10,000
2(O/A)	87.4	68.4	20,000	70.0	64.4	24,000	0	0.0	10,000
3	88.3	65.5	30,000	79.4	63.2	23,000	77.3	69.5	30,000
4(DX COIL)	71	60.6	30,000	71.8	64.9	30,000	77.3	69.5	30,000
5(FAN HEAT)	75.0	61.8	30,000	75.0	61.9	30,000	77.3	69.5	30,000
6(HEATING / SW)	75.0	61.8	30,000	75.0	61.9	30,000	109.0	69.2	30,000
7(R/A)	84	72.4	33,000	84.0	72.4	33,000	84.0	67.2	33,000
8(RECRIC)	84	72.4	11,000	84.0	72.4	7,000	84.0	67.2	20,000
9	80	80	22,000	84	72.4	26,000	48.8	48.8	13,000

- NOTES:
1. PROVIDE VIBRATION ISOLATION IN FAN SECTIONS.
  2. SUPPLY FAN SHALL BE BELT DRIVE AIRFOIL PLENUM TYPE.
  3. RETURN FAN SHALL BE BELT DRIVE FORWARD CURVE FAN.
  4. SUPPLY AND RETURN OPENINGS SHALL BE SIZED TO MATCH SUPPLY AND RETURN DUCTS CONNECTED TO UNIT (COORDINATE).
  5. MANUFACTURER SHALL PROVIDE A 6\"/>

MECHANICAL SYMBOL LEGEND	
SYMBOL	DESCRIPTION
	EXISTING DUCTWORK
	EXISTING SUPPLY/RETURN/EXHAUST GRILLE
	EXISTING MECHANICAL EQUIPMENT
	EXISTING THERMOSTAT
	EXISTING TO BE REMOVED
	DESIGNATES EXISTING
	NEW SUPPLY/RETURN/EXHAUST GRILLE
	DIFFUSER TYPE, NECK SIZE, AND CFM
	NEW SUPPLY/RETURN/EXHAUST DUCT
	NEW DUCT WITH ACOUSTICAL LINING
	NEW FLEX DUCT
	NEW MANUAL BALANCING DAMPER WITH OFFSET BRACKET AND EXTENDED PIN OPPOSED BLADE DAMPER IN RECTANGULAR DUCT, BUTTERFLY DAMPER IN ROUND DUCT
	NEW COMBINATION FIRE/SMOKE DAMPER
	DUCT WIDTH BY DUCT HEIGHT
	NEW 90 DEGREE ELBOW W/ SINGLE WIDTH TURNING VANES
	NEW LONG RADIUS ELBOW (r/D = 1.5)
	NEW SHORT RADIUS ELBOW W/ TURNING VANES
	NEW MECHANICAL EQUIPMENT
	NEW ROOM THERMOSTAT
	CONNECT TO EXISTING
	KEYED NOTE SYMBOL DESIGNATION
	NEW EQUIPMENT SYMBOL DESIGNATION

- GENERAL NOTES - MECHANICAL
- ALL DUCT SIZES SHOWN ARE INSIDE FREE AREA DIMENSIONS. INSTALL WORK AS HIGH AS POSSIBLE AND CAREFULLY COORDINATE ALL WORK WITH STRUCTURAL, ELECTRICAL, PLUMBING, ETC.
  - PROVIDE FLEXIBLE CONNECTIONS AT ALL DUCT CONNECTIONS FOR AIR HANDLING UNITS, EXHAUST FANS, PUMPS, AND ANY OTHER EQUIPMENT WITH VIBRATION-PRODUCING COMPONENTS.
  - ALL EXHAUST FAN OUTLETS, FLUES, AND PLUMBING VENTS SHALL BE LOCATED AT LEAST 10'-0\"/>

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 E-mail: TheResponseGroup@TRG.com

**MECHANICAL SCHEDULES AND GENERAL NOTES**

**SANTA FE COMMUNITY CENTER NATATORIUM DEHUMIDIFICATION**

REVISION #	REVISION DATE:	PROJECT NUMBER:	14129
1	03-13-15-ADDENDUM NO.2	DRAWN BY:	MAR
		CHECK BY:	KP/PR
		SCALE:	1/8"=1'-0"
		DATE:	02/12/15

**M-601**