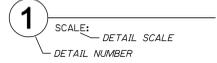


MECHANICAL LEGEND

SYMBOL ABBREV. DESCRIPTION

<p>①</p> <p>T*STAT AFF BBD BOD CFM DTR (E) EC ER G MC OBD OC OSA PC POC SD SM TOD U/C UTR SA EA</p>	<p>DUCT, SINGLE LINE, SIZE AS NOTED ON PLAN</p> <p>THERMOSTAT OR SENSOR ABOVE FINISHED FLOOR BACKDRAFT DAMPER BOTTOM OF DUCT CUBIC FEET PER MINUTE DOWN THROUGH ROOF EXISTING ELECTRICAL CONTRACTOR EXHAUST REGISTER GAS CONNECTION TO MECHANICAL EQUIPMENT MECHANICAL CONTRACTOR OPPOSED BLADE DAMPER ON CENTER OUTSIDE AIR PLUMBING CONTRACTOR POINT OF CONNECTION BETWEEN WORK OF DIFFERENT TRADES SMOKE DETECTOR (DUCT MOUNTED) SHEET METAL TOP OF DUCT UNDERCUT (DOOR) UP THROUGH ROOF SUPPLY AIR (DUCT OR PLENUM) RETURN AIR (DUCT OR PLENUM) EXHAUST AIR (DUCT OR PLENUM)</p>
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DETAIL SYMBOL



MATERIAL AND DEVICE SPECIFICATIONS

(ALSO SEE SPECIFICATIONS BOOK)

23 31 ØØ HVAC DUCTWORK

ALL DUCTWORK SHALL BE FABRICATED AND INSTALLED AS PER CMC.

DURING THE CONSTRUCTION PHASE:
AT THE TIME OF ROUGH INSTALLATION, AND DURING STORAGE ON THE CONSTRUCTION SITE AND UNTIL FINAL STARTUP OF THE HEATING AND COOLING EQUIPMENT, ALL DUCT AND OTHER RELATED AIR DISTRIBUTION EQUIPMENT AND COMPONENT OPENINGS SHALL BE COVERED WITH TAPE, PLASTIC, SHEETMETAL OR OTHER METHODS ACCEPTABLE TO THE ENFORCING AGENCY TO REDUCE THE AMOUNT OF DUST OR DEBRIS WHICH MAY COLLECT IN THE SYSTEM. (CALGREEN 4.504.1)
CALGREEN COMPLIANCE: CODE SECTION 5.713.10.4.

EXHAUST DUCTWORK: RIGID ROUND OR RECTANGULAR SHEET METAL. NO ALUMIFLEX OR SIMILAR CORRUGATED FLEXIBLE DUCTWORK IS PERMITTED.

DUCT SEALER: GLENCOAT SEALFLEX.
SEAL ALL NEW SUPPLY, RETURN, AND EXHAUST DUCTWORK SYSTEMS.

MECHANICAL EQUIPMENT SCHEDULE

HP 1 DESCRIPTION: HEAT PUMP (OUTDOOR UNIT OF A DUCTLESS VRF SPLIT SYSTEM).
SERVICE: SEE PLANS.
LOCATION: ON GRADE.
COOLING CAPACITY RATED AT ARI STANDARD CONDITIONS:
TOTAL/SENSIBLE CAPACITY = 9,500-24,800 BTUH/14,810 BTUH.
COOLING EFFICIENCY: SEER = 14.1
HEATING CAPACITY: 8,000-29,800 BTUH. HSPF: 10.5.
ELECTRICAL: 208/230V 1PH. 16.4 FLA.
APPROX. DIMENSIONS: 37" LONG X 13" WIDE X 31" HIGH.
APPROX. WEIGHT: 128 LBS.
MANUFACTURER AND MODEL: PANASONIC U-26PE1U6.
SOUND RATING: 49 DB-A.

FC 1-1 DESCRIPTION: RECESSED FAN COIL (INDOOR UNIT OF A DUCTLESS VRF SPLIT SYSTEM).
SERVICE: SEE PLANS.
LOCATION: CEILING RECESSED.
COOLING CAPACITY: 11,900 BTUH.
HEATING CAPACITY: 13,600 BTUH.
ELECTRICAL: 208/230 V 1PH. (POWER IS SUPPLIED FROM OUTDOOR UNIT).
APPROX. DIMENSIONS: 14" HIGH X 34" X 34".
APPROX. OPERATING WEIGHT: 43 LBS.
MANUFACTURER AND MODEL: PANASONIC CS-MKE12NB4U. GRILL: CZ-108T1U.

ACCESSORIES AND OPTIONS:
1. PANASONIC REFRIGERANT LINE SET.
2. WIRELESS REMOTE CONTROLLER WITH NON-REMOVEABLE BRACKET.
3. FRESH AIR INTAKE PLENUM.
4. OUTSIDE AIR ROOF CAP: GREENHECK RG-6X9.

HP 2] **HP 1**
FC 2-1] SAME AS **FC 1-1**
FC 2-2] **FC 1-2**

HP 3] **HP 1**
FC 3-1] SAME AS **FC 1-1**
FC 3-2] **FC 1-2**

CU 1 DESCRIPTION: CONDENSING UNIT (OUTDOOR UNIT OF A DUCTLESS VRF SPLIT SYSTEM).
SERVICE: SEE PLANS.
LOCATION: ON GRADE.
COOLING CAPACITY RATED AT ARI STANDARD CONDITIONS:
TOTAL/SENSIBLE CAPACITY = 9,500-32,600/20,160 BTUH.
COOLING EFFICIENCY: SEER = 14.6.
ELECTRICAL: 208/230V 1PH. 17.3 FLA.
APPROX. DIMENSIONS: 37" LONG X 13" WIDE X 31" HIGH.
APPROX. WEIGHT: 143 LBS.
MANUFACTURER AND MODEL: PANASONIC U-36PS1U6.
SOUND RATING: 52 DB-A.

FC 4 DESCRIPTION: RECESSED FAN COIL (INDOOR UNIT OF A DUCTLESS VRF SPLIT SYSTEM).
SERVICE: SEE PLANS.
LOCATION: CEILING RECESSED.
ELECTRICAL: (POWERED FROM OUTDOOR UNIT).
APPROX. DIMENSIONS: 13" HIGH X 45" WIDE X 34" DEEP.
APPROX. OPERATING WEIGHT: 60 LBS.
MANUFACTURER AND MODEL: PANASONIC S-36PU1U6. GRILL: CZ-36KPU1U.

ACCESSORIES AND OPTIONS:
1. PANASONIC REFRIGERANT LINE SET.
2. WIRELESS REMOTE CONTROLLER WITH NON-REMOVEABLE BRACKET.
3. FRESH AIR INTAKE PLENUM.
4. OUTSIDE AIR ROOF CAP: GREENHECK RG-6X9.

A/C SYSTEMS NAMING SCHEDULE

SYSTEM TAG	AREA OR BLDG SERVED	EQUIPMENT TAGS		ZONE SERVED
		OUTDOOR UNIT TAG	INDOOR UNIT TAG	
A/C-1	CHORUS DRESSING	HP-1	FC-1-1 FC-1-2	CHORUS DRESSING 23 CHORUS DRESSING 24
A/C-2	BACK OF HOUSE BLDG	HP-2	FC-2-1 FC-2-2	PRINCIPAL DRESSING 19 MENS RESTROOM 18
A/C-3	BACK OF HOUSE BLDG	HP-3	FC-3-1 FC-3-2	WOMENS RESTROOM 17 PRINCIPAL DRESSING 16
A/C-4	STORAGE BLDG	CU-1	FC-4	AV ROOM 18

ABBREVIATIONS:
A/C AIR CONDITIONING
CU CONDENSING UNIT
FC FAN COIL
HP HEAT PUMP
VRF VARIABLE REFRIGERANT FLOW

EF 1 DESCRIPTION: CEILING EXHAUST FAN.
SERVICE: SEE PLANS.
FAN CAPACITY: 400 CFM @ 0.125 IN. W.C. EXTERNAL STATIC PRESSURE.
FAN RPM: 1,000. SONES: 3.
EF 2 ELECTRICAL: 120 V 1PH. 121 WATTS.
CONTROL: OCCUPANCY SENSOR.
QUALITY ASSURANCE:
UL 507 LISTED - "ELECTRIC FANS."
AMCA 301 SOUND RATED.
APPROX. DIMENSIONS: 18" X 14" X 14" HIGH W/ 8" SQ. OUTLET FOR DUCT.
GRILL SIZE: 19" X 16".
APPROX. OPERATING WEIGHT: 31 LBS.
MANUFACTURER AND MODEL: GREENHECK SP-A410.
ACCESSORIES: GREENHECK RJ-6X9 ROOF CAP.

EF 3 DESCRIPTION: CEILING EXHAUST FAN.
SERVICE: SEE PLANS.
FAN CAPACITY: 200 CFM @ 0.125 IN. W.C. EXTERNAL STATIC PRESSURE.
FAN RPM: 1,100. SONES: 4.5.
EF 4 ELECTRICAL: 120 V 1PH. 172 WATTS.
CONTROL: OCCUPANCY SENSOR.
QUALITY ASSURANCE:
UL 507 LISTED - "ELECTRIC FANS."
AMCA 301 SOUND RATED.
APPROX. DIMENSIONS: 12" X 14" X 7" HIGH W/ 6" OUTLET FOR DUCT.
GRILL SIZE: 13.25" X 14.875".
APPROX. OPERATING WEIGHT: 10 LBS.
MANUFACTURER AND MODEL: GREENHECK SP-B200.
ACCESSORIES: GREENHECK RJ-6X9 ROOF CAP.

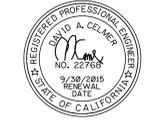
GENERAL MECHANICAL NOTES

- INSTALLATION OF MECHANICAL WORK SHALL BE IN ACCORDANCE WITH THE FOLLOWING CODES:
2010 CMC
AND ALL CODES AND ORDINANCES, ETC., OF THE CITY OF RANCHO MIRAGE, CALIFORNIA, AND OF ALL AUTHORITIES HAVING JURISDICTION OVER THE WORK.
- ALL EQUIPMENT AND DEVICES SHALL BE INSTALLED IN STRICT ACCORDANCE WITH THE EQUIPMENT MANUFACTURERS' RECOMMENDATIONS.
- THE DRAWINGS ARE ESSENTIALLY DIAGRAMMATIC AND AS SUCH DO NOT SHOW REQUIRED FITTING, OFFSET, TRANSITION, ETC. REQUIRED. THE DRAWINGS INDICATE REQUIRED SIZES AND TERMINATIONS OF DUCTWORK AND PIPING AND SUGGEST ROUTES OF DUCTWORK AND PIPING TO CONFORM TO THE STRUCTURE, TO AVOID OBSTRUCTIONS, AND TO PRESERVE CLEARANCE.
- COORDINATE MECHANICAL WORK WITH WORK OF ALL OTHER TRADES.
- VERIFY REQUIRED OPENINGS THROUGH BUILDING STRUCTURE FOR MECHANICAL WORK WITH GENERAL CONTRACTOR BEFORE ROUGH-IN.
- COORDINATE THE LOCATION OF ALL ROOF OPENINGS AND THE LOCATION OF ALL ROOF MOUNTED EQUIPMENT WITH THE STRUCTURAL AND ARCHITECTURAL DRAWINGS PRIOR TO ANY INSTALLATION.
- LOCATE ALL MECHANICAL DEVICES SUCH AS TERMINAL DEVICES, VOLUME DAMPERS, ETC. REQUIRING ACCESS OR ADJUSTMENT ABOVE AREAS WITH ACCESSIBLE CEILINGS, OR PROVIDE ACCESS DOORS OF REQUIRED SIZE AND FIRE RATING, ONLY WITH PRIOR APPROVAL OF ARCHITECT.
- COORDINATE THE LOCATION OF AIR OUTLETS AND INLETS AND ACCESS PANELS WITH ARCHITECTURAL DRAWINGS. VERIFY ALL LOCATIONS WITH ARCHITECT BEFORE ROUGH-IN.
- ALL DUCT DIMENSIONS SHOWN ARE NET INTERNAL DIMENSIONS. ALLOW ADDITIONAL SHEET METAL DIMENSIONS FOR INTERNAL LINING WHERE APPLICABLE. ALL DUCTWORK LOCATED OUTDOORS SHALL BE LINED. ALL DUCTWORK INSTALLED INDOORS SHALL BE EXTERNALLY INSULATED AS PROVIDED IN DUCTWORK INSULATION SPECIFICATION.
- SUBMITTALS: AT LEAST TWO WEEKS PRIOR TO ORDERING, FABRICATION, OR INSTALLATION OF ANY WORK, SUBMIT TO ENGINEER PDF FILES OF PRODUCT DATA FOR ALL EQUIPMENT, DEVICES, AND MATERIAL TO BE USED.
- SUBMITTALS: AT LEAST TWO WEEKS PRIOR TO ORDERING, FABRICATION, OR INSTALLATION OF ANY WORK, SUBMIT TO ENGINEER PDF FILES OF PRODUCT DATA FOR ALL EQUIPMENT, DEVICES, AND MATERIAL TO BE USED. NOTE PLAN TAG, SPECIFIC MODEL, SIZES, OPTIONS, ACCESSORIES, ETC. ON ALL PRODUCT DATA SHEETS. UNMARKED PAGES WILL BE RETURNED FOR RESUBMITTAL.
- UPON COMPLETION OF THE WORK, INSTRUCT THE OWNER IN PROPER OPERATION OF THE MECHANICAL SYSTEMS AND PROVIDE TWO SETS OF OPERATION AND MAINTENANCE MANUALS FOR ALL EQUIPMENT AND DEVICES.
- WARRANTY: THE COMPLETE JOB SHALL BE GUARANTEED FOR A PERIOD OF ONE YEAR AFTER DATE OF FINAL ACCEPTANCE BY THE OWNER. ANY WORK, MATERIAL, OR EQUIPMENT FOUND DEFECTIVE DURING THIS PERIOD SHALL BE CORRECTED IMMEDIATELY, UPON WRITTEN NOTIFICATION, AT THE CONTRACTOR'S EXPENSE.
- APPLIANCES DESIGNED TO BE FIXED IN POSITION SHALL BE SECURELY FASTENED IN PLACE.
- MECHANICAL EQUIPMENT SUPPORTED DIRECTLY BY THE GROUND SHALL BE ISOLATED FROM THE GROUND BY A LEVEL CONCRETE SLAB EXTENDING NOT LESS THAN THREE (3) INCHES ABOVE THE ADJOINING GROUND LEVEL.

M.A.
McAuliffe & Company, Inc. ARCHITECTS

42600 Caroline Court, Suite 102
Palm Desert, California 92211
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mail@mcauliffe.com

CONSULTANT SEAL:



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DRAWING DATE: 09-02-2014	
REVISIONS:	
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ISSUE DATES:	
PLANNING SUBMITTAL SET <input type="checkbox"/>	DRAWN BY:
DESIGN DEVELOPMENT SET <input type="checkbox"/>	CHECKED BY:
PLAN CHECK <input type="checkbox"/>	
PERMIT SET <input type="checkbox"/>	
BID SET <input type="checkbox"/>	McA PROJECT NO: 13-007
CONSTRUCTION SET <input type="checkbox"/>	

Rancho Mirage Community Park Expansion & Amphitheater Project

CP 12-284
71-560 San Jacinto Dr
Rancho Mirage, CA 92270
for
The City of Rancho Mirage
69-825 Highway III
Rancho Mirage, CA 92270

760.324.4511

SHEET TITLE: TITLE SHEET
SHEET NUMBER: MI

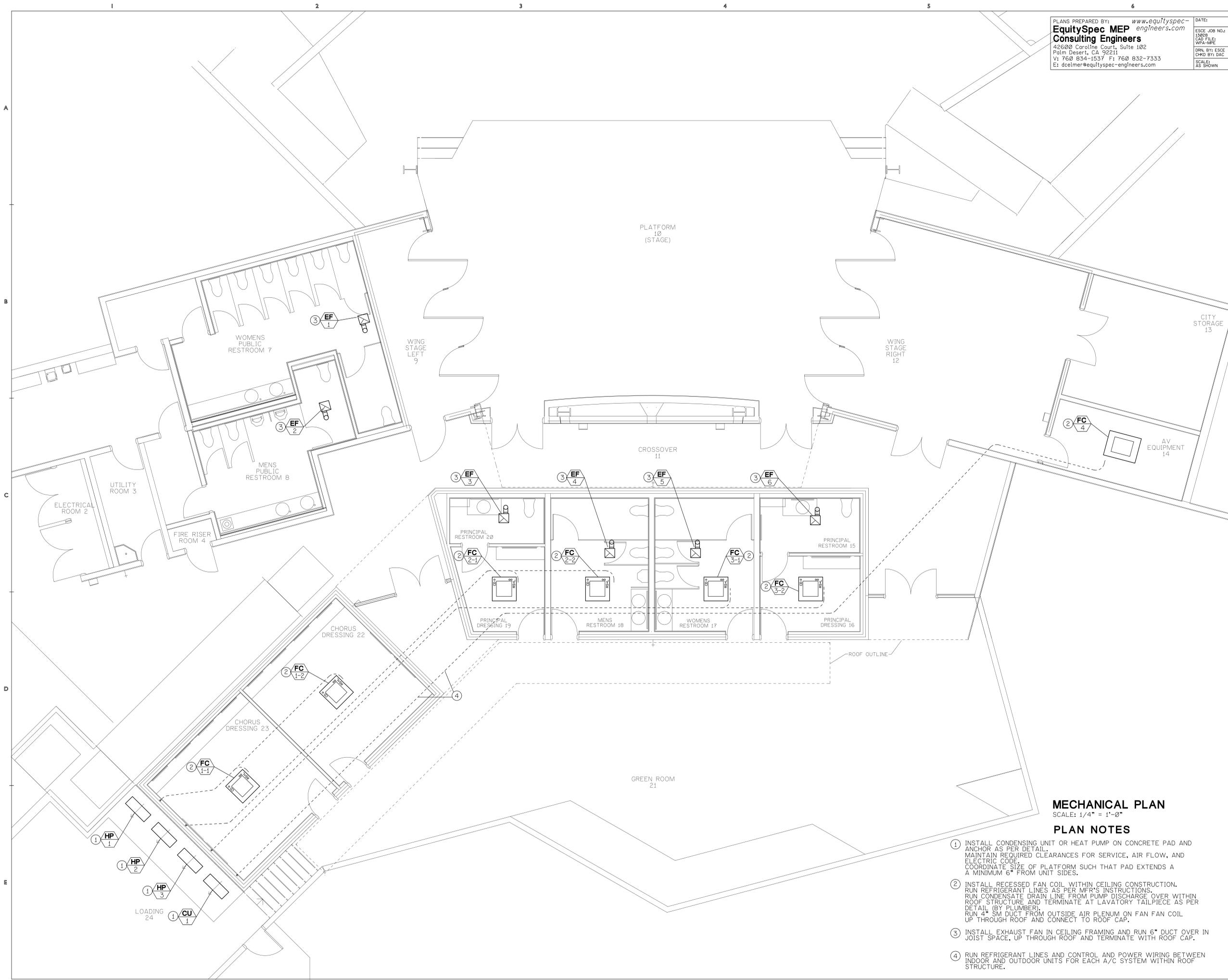
PLANS PREPARED BY: <i>www.equityspec-engineers.com</i>	DATE:
EquitySpec MEP Consulting Engineers	ESCE JOB NO.: 13028 CAD FILE: WPA-MPE
42600 Caroline Court, Suite 102 Palm Desert, CA 92211 V: 760 834-1537 F: 760 832-7333 E: dcelmer@equityspec-engineers.com	DRN. BY: ESCE CHKD BY: DAC
	SCALE: AS SHOWN

SHEET INDEX

SHEET NO.	SHEET TITLE
M1	TITLE SHEET - NOTES, LEGEND, SPECIFICATIONS, EQUIPMENT AND DEVICE SCHEDULES
M2	MECHANICAL PLAN

PLANS PREPARED BY: **EquitySpec MEP Consulting Engineers**
 42600 Caroline Court, Suite 102
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 E: dcelmer@equityspec-engineers.com

DATE: _____
 ESCE JOB NO.: 15028
 CAD FILE: WPA-MPE
 DRN. BY: ESCE
 CHKD BY: DAC
 SCALE: AS SHOWN



MECHANICAL PLAN

SCALE: 1/4" = 1'-0"

PLAN NOTES

- 1 INSTALL CONDENSING UNIT OR HEAT PUMP ON CONCRETE PAD AND ANCHOR AS PER DETAIL. MAINTAIN REQUIRED CLEARANCES FOR SERVICE, AIR FLOW, AND ELECTRIC CODE. COORDINATE SIZE OF PLATFORM SUCH THAT PAD EXTENDS A MINIMUM 6" FROM UNIT SIDES.
- 2 INSTALL RECESSED FAN COIL WITHIN CEILING CONSTRUCTION. RUN REFRIGERANT LINES AS PER MFR'S INSTRUCTIONS. RUN CONDENSATE DRAIN LINE FROM PUMP DISCHARGE OVER WITHIN ROOF STRUCTURE AND TERMINATE AT LAVATORY TAILPIECE AS PER DETAIL (BY PLUMBER). RUN 4" SM DUCT FROM OUTSIDE AIR PLENUM ON FAN FAN COIL UP THROUGH ROOF AND CONNECT TO ROOF CAP.
- 3 INSTALL EXHAUST FAN IN CEILING FRAMING AND RUN 6" DUCT OVER IN JOIST SPACE, UP THROUGH ROOF AND TERMINATE WITH ROOF CAP.
- 4 RUN REFRIGERANT LINES AND CONTROL AND POWER WIRING BETWEEN INDOOR AND OUTDOOR UNITS FOR EACH A/C SYSTEM WITHIN ROOF STRUCTURE.

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<input type="checkbox"/> PLAN CHECK	McA PROJECT NO:
<input type="checkbox"/> PERMIT SET	13-007
<input type="checkbox"/> BID SET	
<input type="checkbox"/> CONSTRUCTION SET	

Rancho Mirage Community Park Expansion & Amphitheater Project

CP 12-284
 71-560 San Jacinto Dr
 Rancho Mirage, CA 92270
 for
The City of Rancho Mirage

69-825 Highway III
 Rancho Mirage, CA 92270
 760.324.4511

SHEET TITLE:
MECHANICAL PLAN

SHEET NUMBER:
M2