1. Remove all existing A/C units, and ductwork see mechanical plans. Provide additional opening in existing roof if required for new ductwork.
2. Existing access ladder typical.
3. Existing parapet cap flashing to be removed typical all parapets. Unless shown otherwise. Remove and replace any parapet wood nailers that are damaged or rotted and replace with new treated wood nailers as required.
4. Remove existing roofing, crickets and parapet flashings down to existing roof sheathing. Inspect roof sheathing and replace any sheathing not suitable for new roofing by manufacturer standards.
5. Remove all existing roof drains, overflow drains, strainers and prepare roof for installation of new drains and strainers as shown on mechanical plans.
6. Remove all existing roof curbs for mechanical equipment.
7. Remove existing exhaust vent.
8. Remove existing heated vent stack.
9. Existing pitched metal roof to remain.
10. Existing roof no work this area.

The contractor must field verify the exact size and location in the field of all parapet flashings, vents, electrical outlets, mechanical units and existing roof conditions and roof size prior to start of work. Notify the engineer/architect of any discrepancies.

Existing work to remain shown light. Existing work to be removed shown dark and dashed. New work shown dark.

**Notice**

Demolition Notes

1. Remove all existing mechanical units, ductwork, and insulation and cap all penetrations both inside and outside. Dispose of all debris properly. High temperature or flammable waste should be removed prior to work.
2. Ensure all existing mechanical equipment is disconnected from power, and gas sources before moving or removing. Verify all gas valves are turned off and locked off by an authorized gas company.
3. Ensure all existing electrical equipment is disconnected from power sources before moving or removing. Verify all power is turned off and locked off by an authorized electrical company.
4. Ensure all existing HVAC equipment and ductwork is disconnected from power sources before moving or removing. Verify all power is turned off and locked off by an authorized HVAC company.
5. Ensure all existing plumbing equipment is disconnected from water sources before moving or removing. Verify all water is turned off and locked off by an authorized plumbing company.
6. Ensure all existing roof curbs are removed before moving or removing mechanical equipment. Verify all roof curbs are removed by an authorized mechanical contractor.
7. Ensure all existing exhaust vents are removed before moving or removing mechanical equipment. Verify all exhaust vents are removed by an authorized contractor.
8. Ensure all existing heated vent stacks are removed before moving or removing mechanical equipment. Verify all heated vent stacks are removed by an authorized contractor.
9. Ensure all existing pitched metal roof is removed before moving or removing mechanical equipment. Verify all pitched metal roof is removed by an authorized contractor.
10. Ensure all existing roof no work this area before moving or removing mechanical equipment. Verify all roof no work this area is removed by an authorized contractor.

New Roof Notes

1. New single ply PVC roofing installed over 1/2" dens board over R-10 rigid insulation over existing wood deck with tapered rigid insulation crickets at 1/2" per foot counter slope to roof drains. Provide full height PVC parapet flashing in accordance with manufacturer's instructions.
2. New 22 ga. minimum galvanized metal cap flashing (field verify sizes 6", 8", 11"). Seal all exposed joints with sealant and make watertight. Paint cap flashing to match existing building trim color. New birdstop to be installed by owner's vendor.
3. New HVAC unit on galvanized metal curb. Provide if necessary new wood framing support for entire unit perimeter.
4. Install new galvanized metal heated stack vent and flashing to match existing.
5. New walkway pads from ladder to perimeter of all HVAC units typical.
6. Existing roof no work this area.
1. Remove all existing A/C units, and ductwork see mechanical plans. Provide additional opening in existing roof if required for new ductwork.
2. Existing access ladder typical.
3. Existing parapet cap flashing to be removed typical all parapets. Unless shown otherwise. Remove and replace any parapet wood nailers that are damaged or rotted and replace with new treated wood nailers as required.
4. Remove existing roofing, cricket and parapet flashings down to existing roof sheathing. Inspect roof sheathing and replace any sheathing not suitable for new roofing by manufacturer standards.
5. Remove all existing roof drains, overflow drains, strainers and prepare roof for installation of new drains and strainers as shown on mechanical plans.
6. Remove all existing roof curbs for mechanical equipment.
7. Remove existing exhaust vent.
8. Remove existing heated vent stack.
9. Existing pitched metal roof to remain.

The contractor must field verify the exact size and location in the field of all parapet flashings, vents, electrical outlets, mechanical units and existing roof conditions and roof size prior to start of work. Notify the engineer/architect of any discrepancies.

Existing work to remain shown light. Existing work to be removed shown dark and dashed. New work shown dark.

NEW ROOF NOTES
1. New single ply PVC roofing installed over 1/2" dens board over R-10 rigid insulation over existing wood deck with tapered rigid insulation cricket at 1/2" per foot counter slope to roof drains. Provide full height PVC parapet flashing in accordance with manufacturers instructions.
2. New 22 ga. minimum galvanized metal cap flashing (field verify sizes 6",8",11"). Seal all exposed joints with sealant and make watertight. Paint cap flashing to match existing building trim color. Install bird stop spikes outward facing on all cap flashing perimeter with silicone sealant.
3. New HVAC unit on galvanized metal curb. Provide if necessary new wood framing support for entire unit perimeter.
4. Install new galvanized metal heated stack vent and flashing to match existing.
5. Existing metal roof no work this area.
6. New walkway pads from ladder to perimeter of all HVAC units typical.

NEW ROOF PLAN - BUILDING D

ROOF PLANS BUILDING D

UNLV DORMITORY HVAC AND ROOFING REPLACEMENT

PHASE 1 BID DOCUMENTS

15031

DG KOCH ASSOCIATES
2000 S. JONES #110
LAS VEGAS, NV 89146
(702) 221-5160 FAX 221-5165

1.02
HEATED STACK FLASHING

DETAIL

SARNAREGLET TERMINATION

DETAIL

SARNAREGLET TERMINATION 2

DETAIL

SARNAREGLET TERMINATION 3

DETAIL

SEALANT POCKET

DETAIL

EQUIPMENT SUPPORT

DETAIL

NOTES:
1) SARNAREGLET SHALL NOT BE IN CONTACT WITH MATERIAL HAVING LOWER FIRE RATING THAN R-7.
2) SEALANT IS A MAINTENANCE ITEM. MAINTENANCE IS NOT COVERED UNDER THE SEA WOMARANTY.
### UNLV DORMITORY HVAC AND ROOFING REPLACEMENT

#### BUILDING A & D

**GENERAL NOTES**

- **Building A and D:**
  - Partitions and floors are precast concrete and consist of 8" cast-in-place concrete slabs at grade with 10" cast-in-place slabs above grade. 8" precast concrete walls are 96" high and 72" wide.
  - **Access:** 6-foot doors.
  - **Air Conditioning:** 8" precast concrete walls are 96" high and 72" wide. 8" precast concrete floors are 96" high and 72" wide.
  - **Ceilings and Partitions:** 8" precast concrete floors are 96" high and 72" wide.
  - **Electrical:** 6 foot doors.
  - **Parking:** 6 foot doors.

**MECHANICAL SPECIFICATIONS**

#### HEAT PUMP UNIT SCHEDULE

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<th>Model</th>
<th>HP</th>
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<th>COP</th>
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<th>Size</th>
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**SPLIT SYSTEM HEAT PUMP UNIT SCHEDULE**

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</table>

**LEGEND**

- **Legend:**
  - **Symbol:**
    - **Air Conditioning:** 6 foot doors.
    - **Electrical:** 6 foot doors.
    - **Parking:** 6 foot doors.

**SHEETS INDEX**

- **Sheet:**
  - **Mechanical Specifications:**
    - **Heat Pump Unit Schedule:**
      - **SPLIT SYSTEM HEAT PUMP UNIT SCHEDULE:**
  - **Building A and D BI_documents:**
    - **Legend, Index, Notes, Schedules, IECC Compliance:**
  - **P:2015_Jobs\15031 UNLV Dormitory HVAC and Roofing Replacement\DWG_BLDG DEPT\15031 PHASE 1 MG101.dwg, 1/13/2016 12:07:27 PM**

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**MECHANICAL SPECIFICATIONS**

- **Legend, Index, Notes, Schedules, IECC Compliance**
- **MG1.01**
UNLV DORMITORY HVAC AND ROOFING REPLACEMENT
BUILDING A AND D

BID DOCUMENTS

POINT OF DISCONNECT FROM EXISTING. VERIFY EXACT SIZE AND LOCATION IN FIELD PRIOR TO START OF WORK.

1. EXISTING A/C UNIT TO BE REMOVED.
2. EXISTING PLUMBING VENT TO REMAIN
3. REMOVE EXISTING EQUIPMENT BASE.
4. REMOVE & REPLACE EXISTING ELEVATOR VENT GOOSENECK MATCH EXISTING SIZE & CONSTRUCTION
5. CAP DUCT BELOW NEW ROOFING & INSULATION.
6. REPAIR/REHAB EXISTING ROOF DRAINS. KEEP EXISTING SUMP & ADJUST TO NEW ROOF. CLEAN OUT DEBRIS. PROVIDE NEW STRAINER. TEST SYSTEM.
7. CAP AND ABANDON EXISTING DRYER VENTS.
8. PROVIDE NEW UNIT WITH CUSTOM ROOF CURB TO PERMIT DUCT TRANSITION FROM OUTLET OF UNIT TO EXISTING DUCTS DOWN THRU ROOF WITHIN CURB.
9. PROVIDE VENTED P-TRAP AT UNIT & NEW DRAIN PIPING
10. PROVIDE NEW EQUIPMENT BASE FOR NEW UNIT: REFER TO DETAIL 3-A2.02.
11. NOT USED.
12. REMOVE EXISTING DUCTWORK & SUPPORTS.
13. FULL SIZE SUPPLY & RETURN DUCTS WITH 2" DUCTLINER & DUCT MATE FITTINGS.
14. NEW GREEN HECK G-090 DIRECT DRIVE EXHAUST FAN WITH ROOF CURB & BACK DRAFT DAMPER, DISCONNECT SWITCH & REMOVE VARIABLE SPEED SWITCH CONTROL.
15. OSA INTAKE WITH GOOSENECK AND 12 x 8 MVD (300 CFM).
16. OSA INTAKE WITH GOOSENECK AND 8 x 8 MVD (200 CFM)
17. OSA INTAKE GOOSENECK WITH FILTER. REFER TO DETAIL 3-(M1.02). MAINTAIN 10' CLEARANCE TO PLUMBING VENTS.
18. PROVIDE PRECHARGED REFRIGERANT TUBING BETWEEN INDOOR AND OUTDOOR UNITS. SIZE PER MANUFACTURER'S RECOMMENDATIONS.

TC-1

SUPPLY CFM
OSA CFM

2000
320

TRADE FOR ALL ROOF & OVERFLOW DRAINS.

A DEMOLITION ROOF PLAN - BUILDING A

B ROOF PLAN - BUILDING A

NOTICE
1. EXTERIOR SPLIT SYSTEM MOUNTING DETAIL

2. SARNAREGLLET TERMINATION 3

3. OUTDOOR AIR GOOSENECK AND FILTER

4. PIPE/CONDUIT SUPPORT DETAIL

A. DEMOLITION ROOF PLAN - BUILDING D

B. ROOF PLAN - BUILDING D
1. Remove existing supply register. Clean interior of duct. Re-install register & balance to airflow shown on sheet M2.02.

2. Remove existing return air grille & fire damper. Prep duct for new connection.


5. Remove existing supply grille and associated ductwork.


7. Remove existing supply duct. Prep duct for new connection.

Notice:

Key Notes:

- M2.01
- 1/13/2016

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(702) 221-5160
Fax 221-5165

UNLV DORMITORY HVAC AND ROOFING REPLACEMENT
BUILDING A & D

BID DOCUMENTS

PARTIAL DEMO FIRST FLOOR PLAN - BUILDINGS A & D

PARTIAL DEMO SECOND FLOOR PLAN BUILDINGS A & D

PARTIAL THIRD FLOOR DEMO - HVAC BUILDINGS A & D