

*ROOF PATCH (roof will have to be demo'd to remove (E) AHU's anyway)*

REMOVE (E) CHILLER FOR AHU-1 & 2.

**SHEET NOTES:**

1. ANY EQUIPMENT SHUT-DOWNS AND OPERATIONAL DOWNTIME SHALL BE COORDINATED WITH AND APPROVED BY THE HOSPITAL.
2. COORDINATE PHASING OF WORK WITH HOSPITAL TO PRIOR TO COMMENCING WORK.
3. FACILITY AND (E)AHU'S SHOULD REMAIN OPERATIONAL AS LONG AS POSSIBLE DURING CONSTRUCTION. TO MINIMIZE DOWNTIME, NEW WORK (DUCT & AHU INSTALLATION) SHOULD BE INSTALLED, CONNECTED TO (E) AND AHU-3 START-UP COMPLETED PRIOR TO DEMO WORK.

**KEYED NOTES:**

1. REMOVE (E) RETURN FAN AND CONTROLS AFTER INSTALLATION OF NEW DUCTWORK AND AHU.
2. DEMO DUCTWORK.
3. DEMO DUCT THRU ROOF AND RELIEF HEAD ON ROOF. COORDINATE ROOF PATCH WITH ARCHITECT.
4. AHU TO BE ABANDONED IN PLACE. UNIT TO BE REMOVED THRU ROOF IN FUTURE (DURING NEW EMERGENCY DEPARTMENT ADDITION WORK.) DISCONNECT ALL DUCT/PIPE CONNECTIONS, ELECTRICAL AND CONTROLS AND CONTROLS WIRING TO THE UNIT.
5. RELOCATE (E)DIFFUSER.
6. REMOVE OSA DUCT AND INTAKE HOOD ON ROOF. COORDINATE ROOF PATCH WITH ARCHITECTURAL.

**MECHANICAL DEMO SCOPE:**

EXISTING AHU-1, 2 AND 3 TO BE ABANDONED IN PLACE FOR FUTURE REMOVAL. EXISTING DUCTWORK TO BE DEMO'D AND/OR MODIFIED FOR CONNECTION TO NEW AHU-1 DUCT SYSTEM AND TO NEW VAV BOXES.

*ceiling removal/demo to access ducts to be removed.*

*room name*

1 PARTIAL MECH DEMO PLAN  
M1.1 SCALE: 1/4" = 1'-0"

*room name*



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MECHANICAL IMPROVEMENTS FOR:

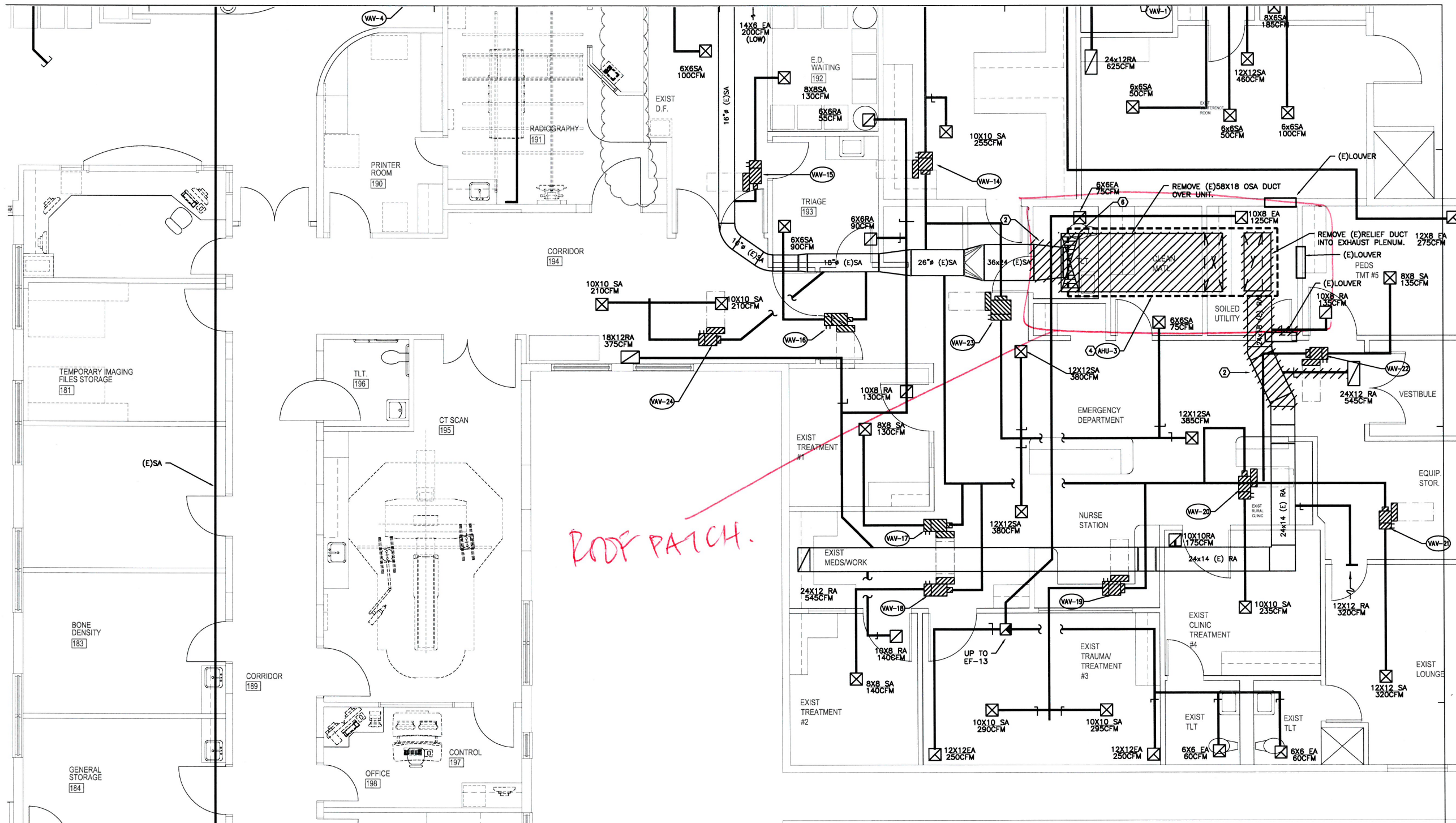


211 SKYLINE DRIVE  
WHITE SALMON, WASHINGTON 98672

PROJECT NUMBER: 16014b  
DATE: 1/11/2016  
DRAWN: TB  
REVISIONS: 2.16.16

PARTIAL MECHANICAL DEMO PLAN

M1.1



ROOF PATCH.

**1** PARTIAL MECH DEMO PLAN  
 M1.2 SCALE: 1/4" = 1'-0"

- SHEET NOTES:**
- ANY EQUIPMENT SHUT-DOWNS AND OPERATIONAL DOWNTIME SHALL BE COORDINATED WITH AND APPROVED BY THE HOSPITAL.
  - COORDINATE PHASING OF WORK WITH HOSPITAL TO PRIOR TO COMMENCING WORK.
  - FACILITY AND (E)AHU'S SHOULD REMAIN OPERATIONAL AS LONG AS POSSIBLE DURING CONSTRUCTION. TO MINIMIZE DOWNTIME, NEW WORK (DUCT & AHU INSTALLATION) SHOULD BE INSTALLED, CONNECTED TO (E) AND AHU-3 START-UP COMPLETED PRIOR TO DEMO WORK.
- KEYED NOTES: (#)**
- REMOVE (E) RETURN FAN AND CONTROLS AFTER INSTALLATION OF NEW DUCTWORK AND AHU.
  - DEMO DUCTWORK.
  - DEMO DUCT THRU ROOF AND RELIEF HEAD ON ROOF. COORDINATE ROOF PATCH WITH ARCHITECT.
  - AHU TO BE ABANDONED IN PLACE. UNIT TO BE REMOVED THRU ROOF IN FUTURE (DURING NEW EMERGENCY DEPARTMENT ADDITION WORK.) DISCONNECT ALL DUCT/PIPE CONNECTIONS, ELECTRICAL AND CONTROLS AND CONTROLS WIRING TO THE UNIT.
  - RELOCATE (E)DIFFUSER.
  - REMOVE OSA DUCT AND INTAKE HOOD ON ROOF. COORDINATE ROOF PATCH WITH ARCHITECTURAL.

**MECHANICAL DEMO SCOPE:**  
 EXISTING AHU-1, 2 AND 3 TO BE ABANDONED IN PLACE FOR FUTURE REMOVAL. EXISTING DUCTWORK TO BE DEMO'D AND/OR MODIFIED FOR CONNECTION TO NEW AHU-1 DUCT SYSTEM AND TO NEW VAV BOXES.

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**MECHANICAL IMPROVEMENTS FOR:**

**SKYLINE HOSPITAL**  
 HVAC SYSTEM UPGRADES

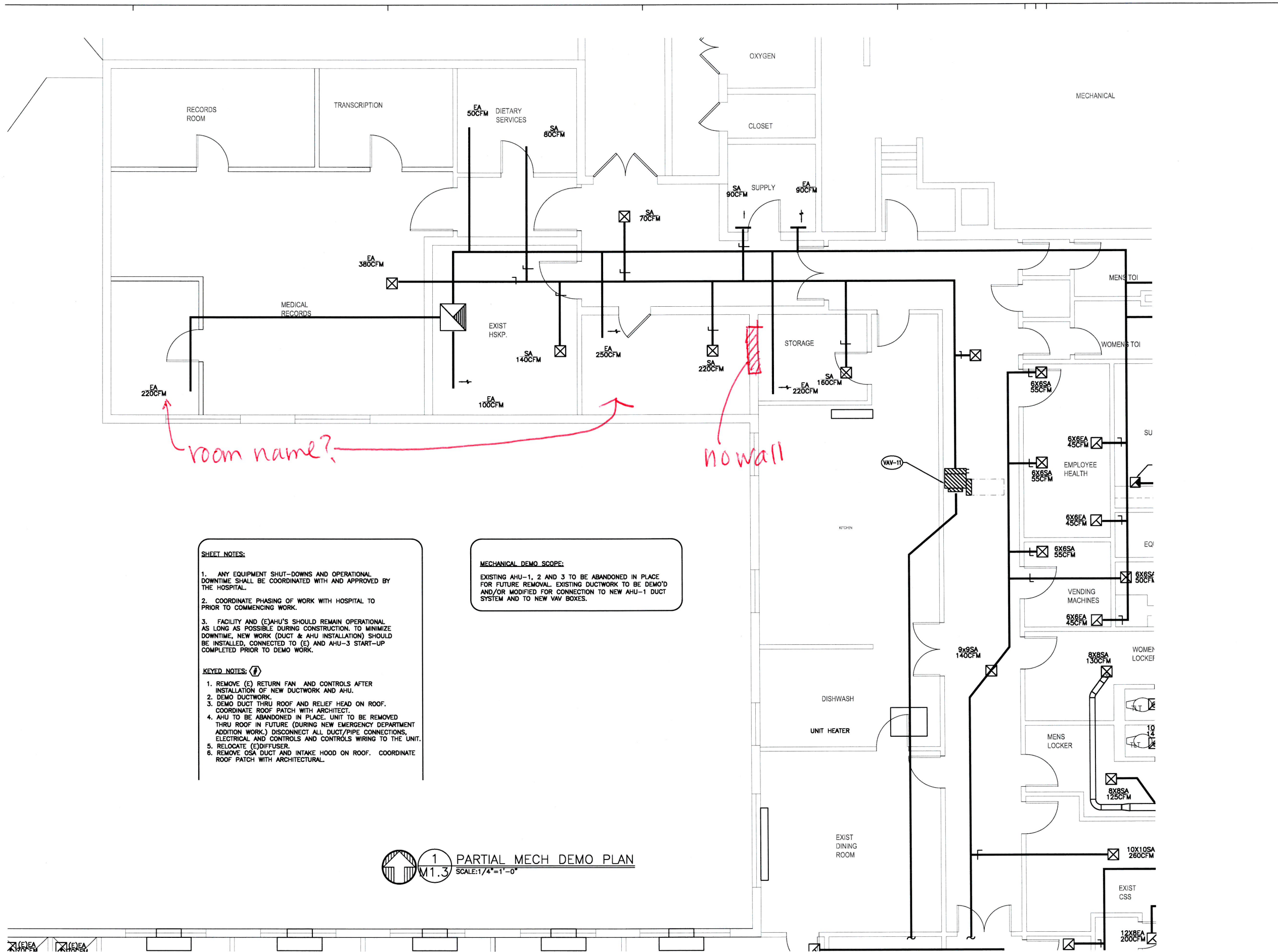
211 SKYLINE DRIVE  
 WHITE SALMON, WASHINGTON 98672

PROJECT NUMBER: 16014b  
 DATE: 1/11/2016  
 DRAWN: TB  
 REVISIONS: 12.16.16

**PARTIAL MECHANICAL DEMO PLAN**

# M1.2

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**SHEET NOTES:**

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2. COORDINATE PHASING OF WORK WITH HOSPITAL TO PRIOR TO COMMENCING WORK.
3. FACILITY AND (E)AHU'S SHOULD REMAIN OPERATIONAL AS LONG AS POSSIBLE DURING CONSTRUCTION. TO MINIMIZE DOWNTIME, NEW WORK (DUCT & AHU INSTALLATION) SHOULD BE INSTALLED, CONNECTED TO (E) AND AHU-3 START-UP COMPLETED PRIOR TO DEMO WORK.


**KEYED NOTES: (#)**

1. REMOVE (E) RETURN FAN AND CONTROLS AFTER INSTALLATION OF NEW DUCTWORK AND AHU.
2. DEMO DUCTWORK.
3. DEMO DUCT THRU ROOF AND RELIEF HEAD ON ROOF. COORDINATE ROOF PATCH WITH ARCHITECT.
4. AHU TO BE ABANDONED IN PLACE. UNIT TO BE REMOVED THRU ROOF IN FUTURE (DURING NEW EMERGENCY DEPARTMENT ADDITION WORK.) DISCONNECT ALL DUCT/PIPE CONNECTIONS, ELECTRICAL AND CONTROLS AND CONTROLS WIRING TO THE UNIT.
5. RELOCATE (E)DIFFUSER.
6. REMOVE OSA DUCT AND INTAKE HOOD ON ROOF. COORDINATE ROOF PATCH WITH ARCHITECTURAL.

**MECHANICAL DEMO SCOPE:**

EXISTING AHU-1, 2 AND 3 TO BE ABANDONED IN PLACE FOR FUTURE REMOVAL. EXISTING DUCTWORK TO BE DEMO'D AND/OR MODIFIED FOR CONNECTION TO NEW AHU-1 DUCT SYSTEM AND TO NEW VAV BOXES.

1 PARTIAL MECH DEMO PLAN  
M1.3 SCALE: 1/4"=1'-0"



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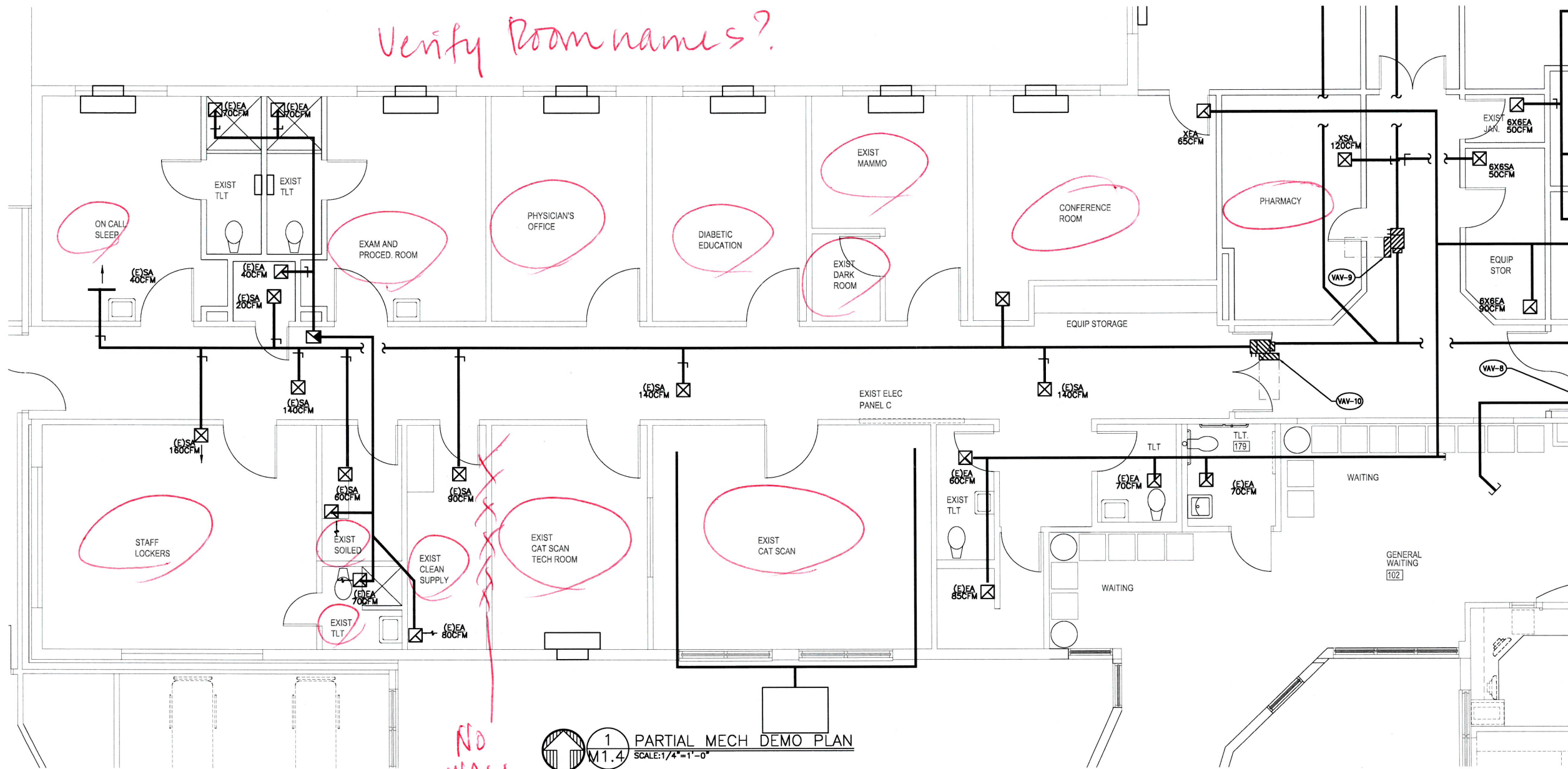
MECHANICAL IMPROVEMENTS FOR:  
SKYLINE HOSPITAL  
HVAC SYSTEM UPGRADES  
211 SKYLINE DRIVE  
WHITE SALMON, WASHINGTON 98672

PROJECT NUMBER: 16014b  
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PARTIAL MECHANICAL DEMO PLAN

**M1.3**

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Verify Room names?

NO WALL

1 M1.4 PARTIAL MECH DEMO PLAN  
SCALE: 1/4" = 1'-0"

**SHEET NOTES:**


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**KEYED NOTES: (#)**

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6. REMOVE OSA DUCT AND INTAKE HOOD ON ROOF. COORDINATE ROOF PATCH WITH ARCHITECTURAL.

**MECHANICAL DEMO SCOPE:**

EXISTING AHU-1, 2 AND 3 TO BE ABANDONED IN PLACE FOR FUTURE REMOVAL. EXISTING DUCTWORK TO BE DEMO'D AND/OR MODIFIED FOR CONNECTION TO NEW AHU-1 DUCT SYSTEM AND TO NEW VAV BOXES.



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MECHANICAL IMPROVEMENTS FOR:



**SKYLINE HOSPITAL**

**HVAC SYSTEM UPGRADES**

211 SKYLINE DRIVE  
WHITE SALMON, WASHINGTON 98672

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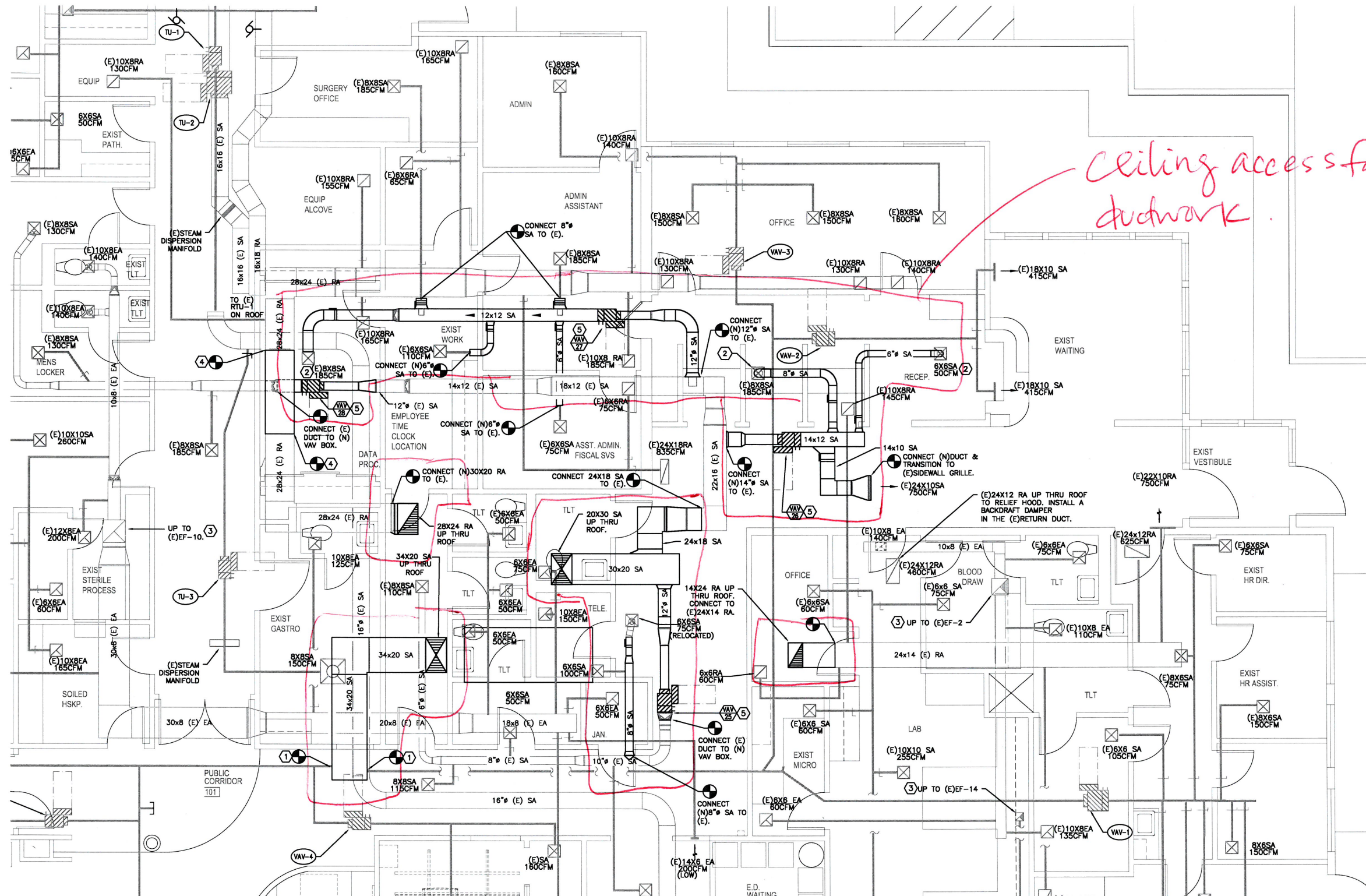
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DATE: 1/12/16  
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REVISIONS: 12.16.16

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PARTIAL MECHANICAL DEMO PLAN

M1.4

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*ceiling access for ductwork*

**SHEET NOTES:**

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4. BALANCE ALL (E) & (N) DIFFUSERS AND GRILLES TO AIRFLOWS SHOWN.
5. CONTRACTOR TO VERIFY (E)CONDITIONS RELATIVE TO THE SCOPE OF WORK.
6. SEE SHEETS MP2.3 & MP2.4 FOR BOILER VENT AND COMBUSTION AIR.

**MECHANICAL SCOPE- NEW WORK:**

- PROVIDE NEW AHU-2 TO REPLACE (E)AHU-1, 2, 3. AHU-2 TO BE SIZED FOR FUTURE ADDITION.
- PROVIDE NEW DUCTWORK PER PLAN TO CONNECT EXISTING DUCTWORK TO NEW AHU-1 SYSTEM.
- PROVIDE 4 NEW VAV BOXES TO REPLACE EXISTING SINGLE ZONE SPACES (AHU-2).
- PROVIDE DDC CONTROLS FOR NEW AHU-1 AND NEW VAV BOXES. EXISTING VAV BOXES AND CONTROLS TO REMAIN AS-IS.
- RE-BALANCE ALL DIFFUSERS AND GRILLES.

**1 PARTIAL MECHANICAL FLOOR PLAN**  
SCALE: 1/4"=1'-0"

AS-BUILT PLANS FROM PREVIOUS PROJECTS. CONTRACTOR TO FIELD VERIFY LOCATION OF (E) EQUIPMENTS AND ROUTING OF (E) DUCTWORK AND PIPING.

**KEYED NOTES:**

1. CONNECT (E)16" SA TO (N)34x20 SA.
2. CONNECT (N) DUCT TO (E) DIFFUSER.
3. RE-BALANCE (E)EXH FAN.
4. CONNECT (E)28x24 DISCHARGE/INLET DUCTWORK TOGETHER WHERE A RA FAN WAS REMOVED.
5. SEE  $\frac{3}{M6.2}$  FOR VAV INSTALLATION AND  $\frac{2}{M5.2}$  FOR CONTROLS.
6. (E)EXTERIOR LOUVER. BLOCK LOUVER WITH SHEETMETAL INSIDE THE BUILDING. CONTRACTOR TO VERIFY EXACT LOCATION AND SIZE. APPROX SIZE FOR EACH LOUVER IS 24X18.



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MECHANICAL IMPROVEMENTS FOR:

SKYLINE  
HOSPITAL  
HVAC SYSTEM UPGRADES

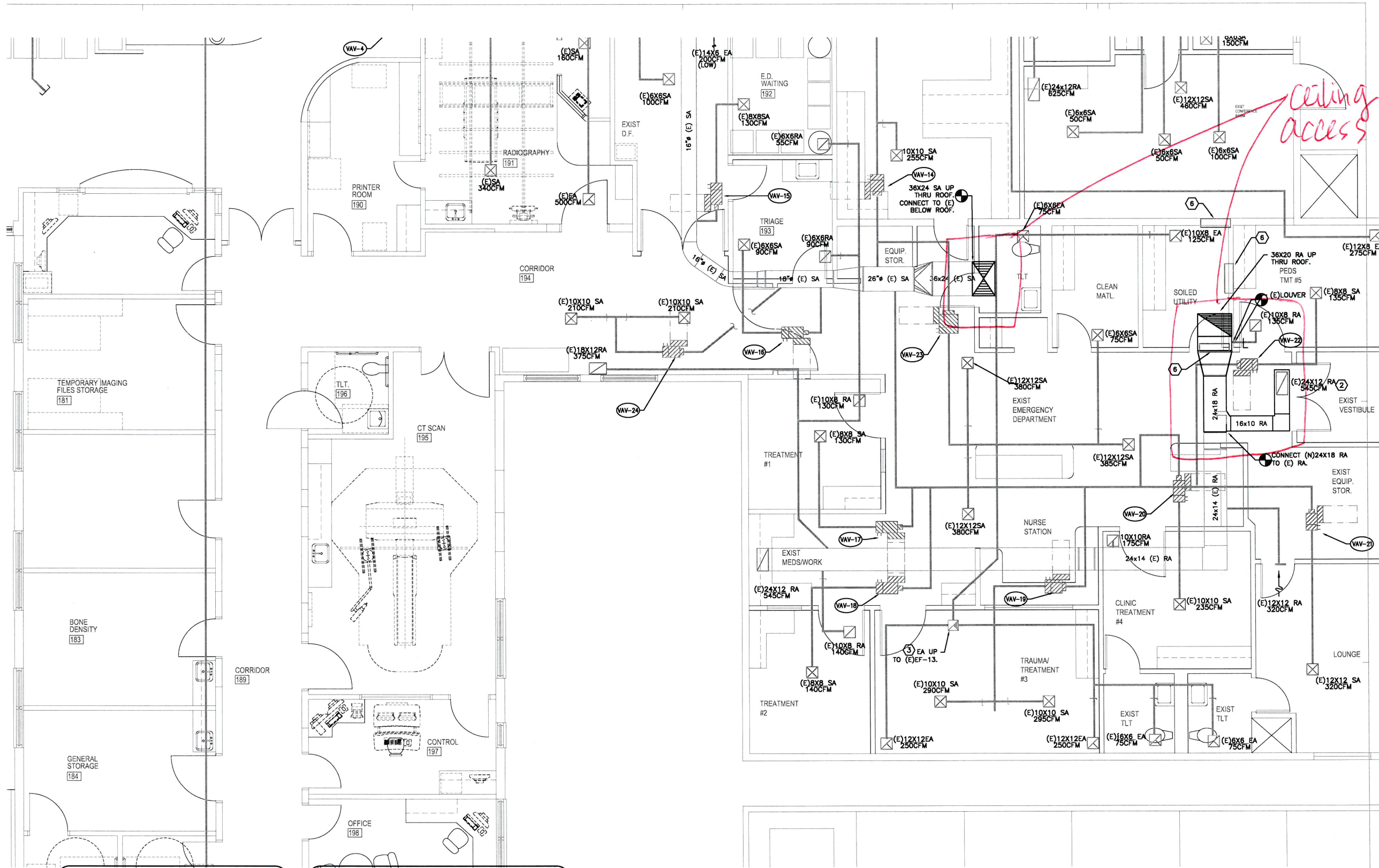
211 SKYLINE DRIVE  
WHITE SALMON, WASHINGTON 98672


PROJECT NUMBER: 160146  
DATE: 1/11/2016  
DRAWN: TB  
REVISIONS: 12.16.16

PARTIAL  
MECHANICAL  
FLOOR PLAN

**M2.1**

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MECHANICAL IMPROVEMENTS FOR:



**SKYLINE HOSPITAL**  
 HVAC SYSTEM UPGRADES

211 SKYLINE DRIVE  
 WHITE SALMON, WASHINGTON 98672

---

PROJECT NUMBER: 160146  
 DATE: 11/12/16  
 DRAWN: TB  
 REVISIONS: 12.16.16

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**PARTIAL MECHANICAL FLOOR PLAN**

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**M2.2**

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- SHEET NOTES:**
- ANY EQUIPMENT SHUT-DOWNS AND OPERATIONAL DOWNTIME SHALL BE COORDINATED WITH AND APPROVED BY THE HOSPITAL.
  - COORDINATE PHASING OF WORK WITH HOSPITAL TO PRIOR TO COMMENCING WORK.
  - FACILITY AND (E)AHU'S SHOULD REMAIN OPERATIONAL AS LONG AS POSSIBLE DURING CONSTRUCTION. TO MINIMIZE DOWNTIME, NEW WORK (DUCT & AHU INSTALLATION) SHALL BE INSTALLED, CONNECTED TO (E) AND NEW AHU-1 START-UP COMPLETED PRIOR TO DEMO WORK.
  - BALANCE ALL (E) & (N) DIFFUSERS AND GRILLES TO AIRFLOWS SHOWN.
  - CONTRACTOR TO VERIFY (E)CONDITIONS RELATIVE TO THE SCOPE OF WORK.
  - SEE SHEETS MP2.3 & MP2.4 FOR BOILER VENT AND COMBUSTION AIR.

- MECHANICAL SCOPE- NEW WORK:**
- PROVIDE NEW AHU-2 TO REPLACE (E)AHU-1, 2, 3. AHU-2 TO BE SIZED FOR FUTURE ADDITION.
- PROVIDE NEW DUCTWORK PER PLAN TO CONNECT EXISTING DUCTWORK TO NEW AHU-1 SYSTEM.
- PROVIDE 4 NEW VAV BOXES TO REPLACE EXISTING SINGLE ZONE SPACES (AHU-2).
- PROVIDE DDC CONTROLS FOR NEW AHU-1 AND NEW VAV BOXES. EXISTING VAV BOXES AND CONTROLS TO REMAIN AS-IS.
- RE-BALANCE ALL DIFFUSERS AND GRILLES.


1 PARTIAL MECHANICAL FLOOR PLAN  
M2.2 SCALE: 1/4"=1'-0"

- KEYED NOTES:**
- CONNECT (E)16" SA TO (N)34X20 SA.
  - CONNECT (N) DUCT TO (E) DIFFUSER.
  - RE-BALANCE (E)EXH FAN.
  - CONNECT (E)28X24 DISCHARGE/INLET DUCTWORK TOGETHER WHERE A RA FAN WAS REMOVED.
  - SEE 3 FOR VAV INSTALLATION AND 2 FOR CONTROLS.
  - (E)EXTERIOR LOUVER. BLOCK LOUVER WITH SHEETMETAL INSIDE THE BUILDING. CONTRACTOR TO VERIFY EXACT LOCATION AND SIZE. APPROX SIZE FOR EACH LOUVER IS 24X18.



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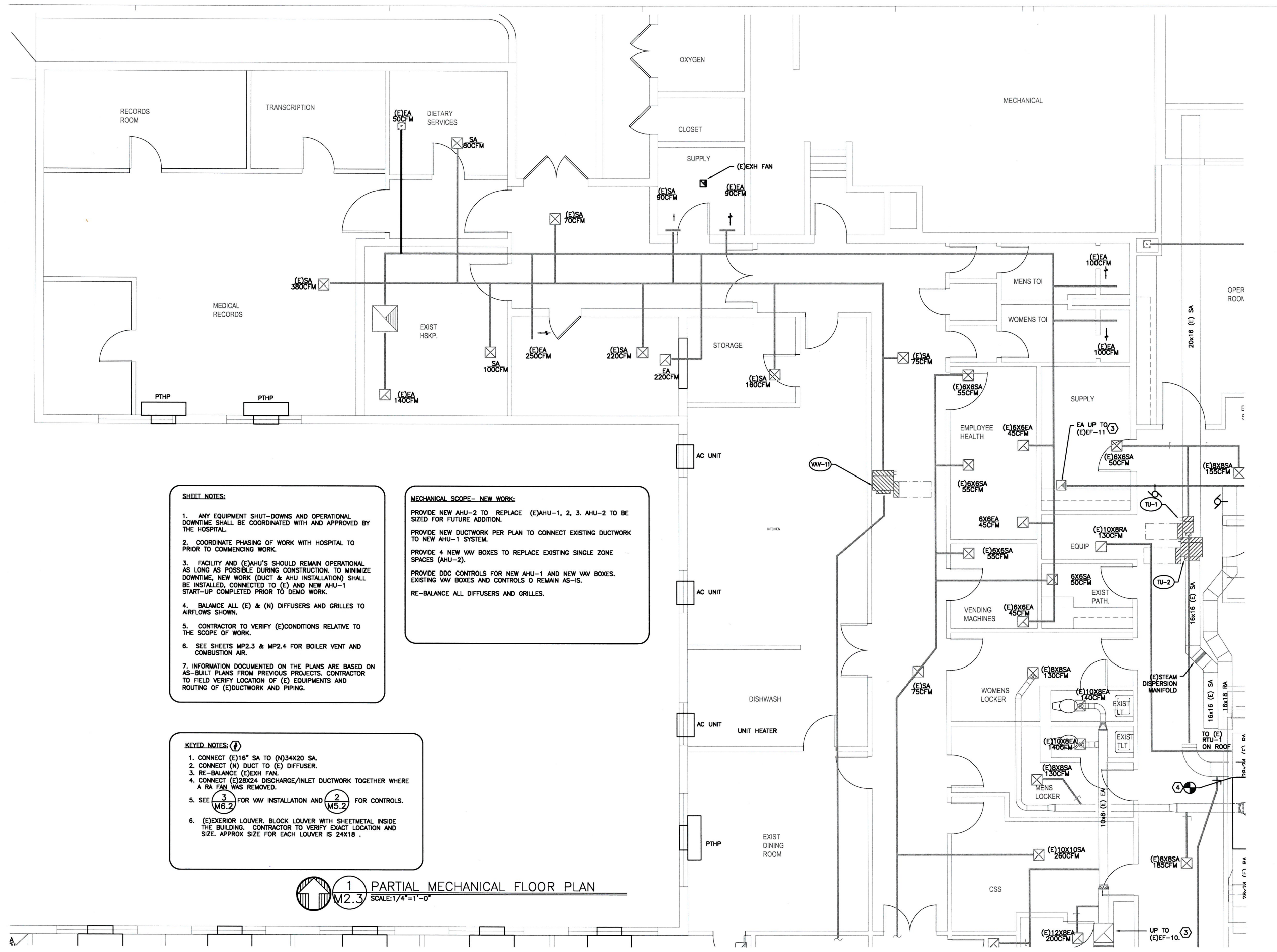
MECHANICAL IMPROVEMENTS FOR:  
**SKYLINE HOSPITAL**  
HVAC SYSTEM UPGRADES  
211 SKYLINE DRIVE  
WHITE SALMON, WASHINGTON 98672

PROJECT NUMBER: 160140  
DATE: 1/11/2016  
DRAWN: TB  
REVISIONS: 2/16/16

PARTIAL MECHANICAL FLOOR PLAN

M2.3

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**SHEET NOTES:**

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4. BALANCE ALL (E) & (N) DIFFUSERS AND GRILLES TO AIRFLOWS SHOWN.
5. CONTRACTOR TO VERIFY (E)CONDITIONS RELATIVE TO THE SCOPE OF WORK.
6. SEE SHEETS MP2.3 & MP2.4 FOR BOILER VENT AND COMBUSTION AIR.
7. INFORMATION DOCUMENTED ON THE PLANS ARE BASED ON AS-BUILT PLANS FROM PREVIOUS PROJECTS. CONTRACTOR TO FIELD VERIFY LOCATION OF (E) EQUIPMENTS AND ROUTING OF (E)DUCTWORK AND PIPING.

**MECHANICAL SCOPE- NEW WORK:**

PROVIDE NEW AHU-2 TO REPLACE (E)AHU-1, 2, 3. AHU-2 TO BE SIZED FOR FUTURE ADDITION.

PROVIDE NEW DUCTWORK PER PLAN TO CONNECT EXISTING DUCTWORK TO NEW AHU-1 SYSTEM.

PROVIDE 4 NEW VAV BOXES TO REPLACE EXISTING SINGLE ZONE SPACES (AHU-2).

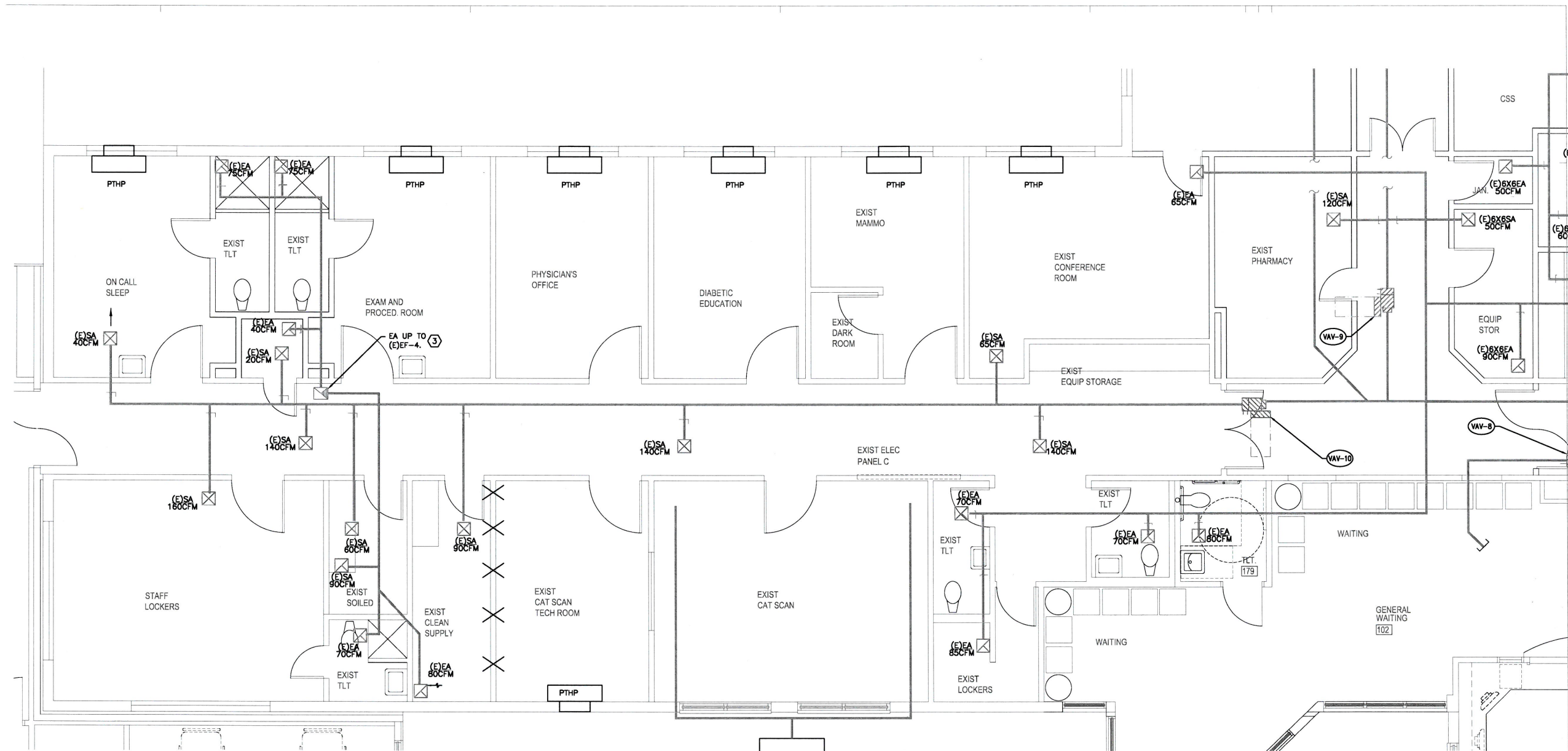
PROVIDE DDC CONTROLS FOR NEW AHU-1 AND NEW VAV BOXES. EXISTING VAV BOXES AND CONTROLS TO REMAIN AS-IS.

RE-BALANCE ALL DIFFUSERS AND GRILLES.

**KEYED NOTES:**

1. CONNECT (E)16" SA TO (N)34X20 SA.
2. CONNECT (N) DUCT TO (E) DIFFUSER.
3. RE-BALANCE (E)EXH FAN.
4. CONNECT (E)28X24 DISCHARGE/INLET DUCTWORK TOGETHER WHERE A RA FAN WAS REMOVED.
5. SEE **3** FOR VAV INSTALLATION AND **2** FOR CONTROLS.
6. (E)EXTERIOR LOUVER. BLOCK LOUVER WITH SHEETMETAL INSIDE THE BUILDING. CONTRACTOR TO VERIFY EXACT LOCATION AND SIZE. APPROX SIZE FOR EACH LOUVER IS 24X18.

**1** PARTIAL MECHANICAL FLOOR PLAN  
SCALE: 1/4" = 1'-0"



**1** PARTIAL MECHANICAL FLOOR PLAN  
**M2.4** SCALE: 1/4" = 1'-0"

**SHEET NOTES:**

- ANY EQUIPMENT SHUT-DOWNS AND OPERATIONAL DOWNTIME SHALL BE COORDINATED WITH AND APPROVED BY THE HOSPITAL.
- COORDINATE PHASING OF WORK WITH HOSPITAL TO PRIOR TO COMMENCING WORK.
- FACILITY AND (E)AHU'S SHOULD REMAIN OPERATIONAL AS LONG AS POSSIBLE DURING CONSTRUCTION TO MINIMIZE DOWNTIME. NEW WORK (DUCT & AHU INSTALLATION) SHALL BE INSTALLED, CONNECTED TO (E) AND NEW AHU-1 START-UP COMPLETED PRIOR TO DEMO WORK.
- BALANCE ALL (E) & (N) DIFFUSERS AND GRILLES TO AIRFLOWS SHOWN.
- CONTRACTOR TO VERIFY (E)CONDITIONS RELATIVE TO THE SCOPE OF WORK.
- SEE SHEETS MP2.3 & MP2.4 FOR BOILER VENT AND COMBUSTION AIR.
- INFORMATION DOCUMENTED ON THE PLANS ARE BASED ON AS-BUILT PLANS FROM PREVIOUS PROJECTS. CONTRACTOR TO FIELD VERIFY LOCATION OF (E) EQUIPMENTS AND ROUTING OF (E) DUCTWORK AND PIPING.

**MECHANICAL SCOPE - NEW WORK:**

PROVIDE NEW AHU-2 TO REPLACE (E)AHU-1, 2, 3. AHU-2 TO BE SIZED FOR FUTURE ADDITION.

PROVIDE NEW DUCTWORK PER PLAN TO CONNECT EXISTING DUCTWORK TO NEW AHU-1 SYSTEM.


PROVIDE 4 NEW VAV BOXES TO REPLACE EXISTING SINGLE ZONE SPACES (AHU-2).

PROVIDE DDC CONTROLS FOR NEW AHU-1 AND NEW VAV BOXES. EXISTING VAV BOXES AND CONTROLS TO REMAIN AS-IS.

RE-BALANCE ALL DIFFUSERS AND GRILLES.

**KEYED NOTES:**

- CONNECT (E)16" SA TO (N)34X20 SA.
- CONNECT (N) DUCT TO (E) DIFFUSER.
- RE-BALANCE (E)EXH FAN.
- CONNECT (E)28X24 DISCHARGE/INLET DUCTWORK TOGETHER WHERE A RA FAN WAS REMOVED.
- SEE **3** FOR VAV INSTALLATION AND **2** FOR CONTROLS.
- (E)EXTERIOR LOUVER. BLOCK LOUVER WITH SHEETMETAL INSIDE THE BUILDING. CONTRACTOR TO VERIFY EXACT LOCATION AND SIZE. APPROX SIZE FOR EACH LOUVER IS 24X18.



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MECHANICAL IMPROVEMENTS FOR:

**SKYLINE HOSPITAL**  
**HVAC SYSTEM UPGRADES**

211 SKYLINE DRIVE  
 WHITE SALMON, WASHINGTON 98672

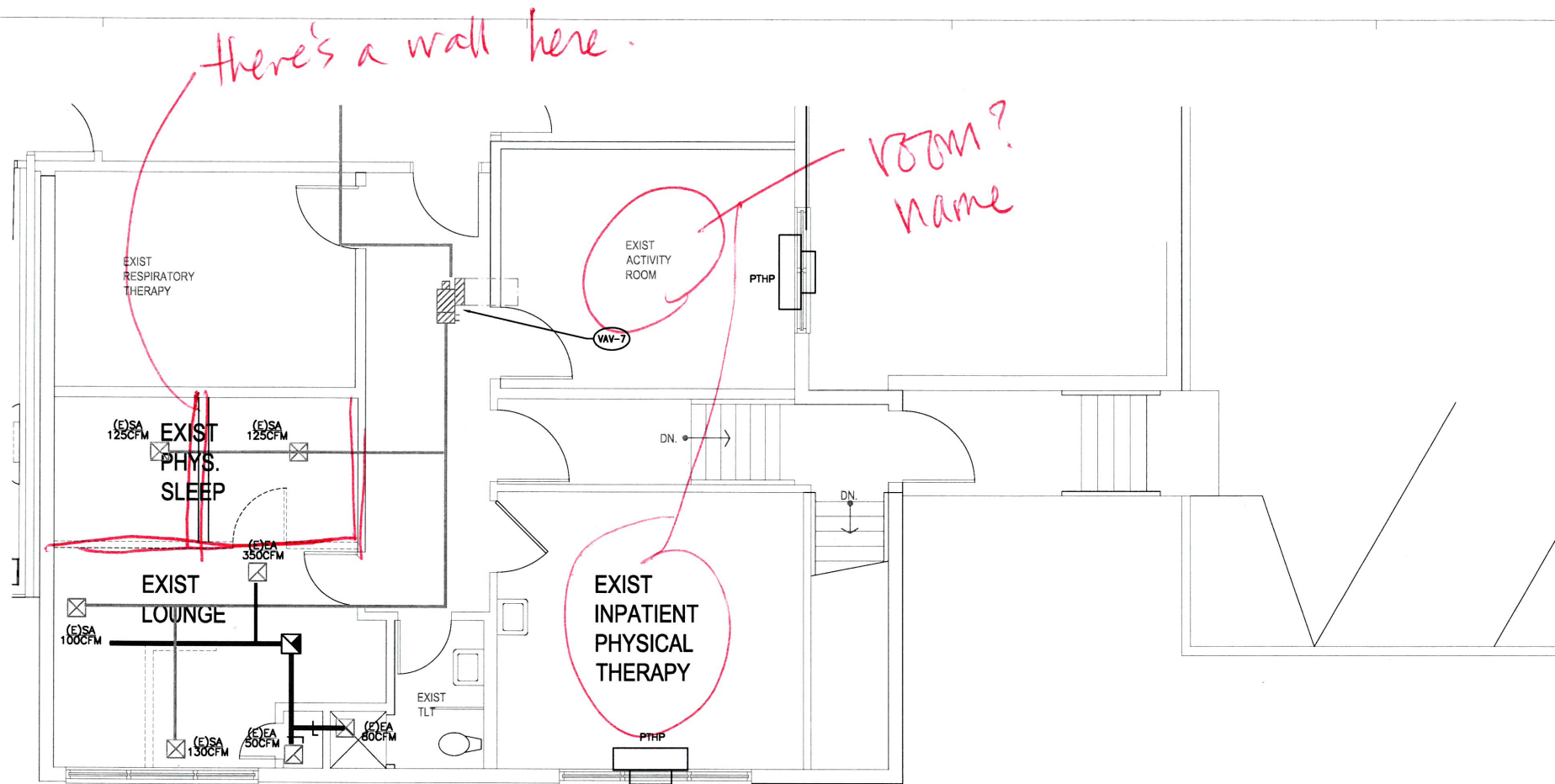
PROJECT NUMBER: 160146  
 DATE: 11/12/16  
 DRAWN: TB  
 REVISIONS: 12.16.16

**PARTIAL MECHANICAL FLOOR PLAN**

**M2.4**

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1 PARTIAL MECHANICAL FLOOR PLAN  
 SCALE: 1/4" = 1'-0"

**SHEET NOTES:**

1. ANY EQUIPMENT SHUT-DOWNS AND OPERATIONAL DOWNTIME SHALL BE COORDINATED WITH AND APPROVED BY THE HOSPITAL.
2. COORDINATE PHASING OF WORK WITH HOSPITAL TO COMMENCING WORK.
3. FACILITY AND (E)AHU'S SHOULD REMAIN OPERATIONAL AS LONG AS POSSIBLE DURING CONSTRUCTION. TO MINIMIZE DOWNTIME, NEW WORK (DUCT & AHU INSTALLATION) SHALL BE INSTALLED, CONNECTED TO (E) AND NEW AHU-1 START-UP COMPLETED PRIOR TO DEMO WORK.
4. BALANCE ALL (E) & (N) DIFFUSERS AND GRILLES TO AIRFLOWS SHOWN.
5. CONTRACTOR TO VERIFY (E)CONDITIONS RELATIVE TO THE SCOPE OF WORK.
6. SEE SHEETS MP2.3 & MP2.4 FOR BOILER VENT AND COMBUSTION AIR.
7. INFORMATION DOCUMENTED ON THE PLANS ARE BASED ON AS-BUILT PLANS FROM PREVIOUS PROJECTS. CONTRACTOR TO FIELD VERIFY LOCATION OF (E) EQUIPMENTS AND ROUTING OF (E) DUCTWORK AND PIPING.

**MECHANICAL SCOPE - NEW WORK:**

PROVIDE NEW AHU-2 TO REPLACE (E)AHU-1, 2, 3. AHU-2 TO BE SIZED FOR FUTURE ADDITION.  
 PROVIDE NEW DUCTWORK PER PLAN TO CONNECT EXISTING DUCTWORK TO NEW AHU-1 SYSTEM.  
 PROVIDE 4 NEW VAV BOXES TO REPLACE EXISTING SINGLE ZONE SPACES (AHU-2).  
 PROVIDE DDC CONTROLS FOR NEW AHU-1 AND NEW VAV BOXES. EXISTING VAV BOXES AND CONTROLS O REMAIN AS-IS.  
 RE-BALANCE ALL DIFFUSERS AND GRILLES.

**KEYED NOTES: (7)**

1. CONNECT (E)16" SA TO (N)34X20 SA.
2. CONNECT (N) DUCT TO (E) DIFFUSER.
3. RE-BALANCE (E)20X FAN.
4. CONNECT (E)28X24 DISCHARGE/INLET DUCTWORK TOGETHER WHERE A RA FAN WAS REMOVED.
5. SEE (3) M6.2 FOR VAV INSTALLATION AND (2) M5.2 FOR CONTROLS.
6. (E)EXTERIOR LOUVER. BLOCK LOUVER WITH SHEETMETAL INSIDE THE BUILDING. CONTRACTOR TO VERIFY EXACT LOCATION AND SIZE. APPROX SIZE FOR EACH LOUVER IS 24X18 .

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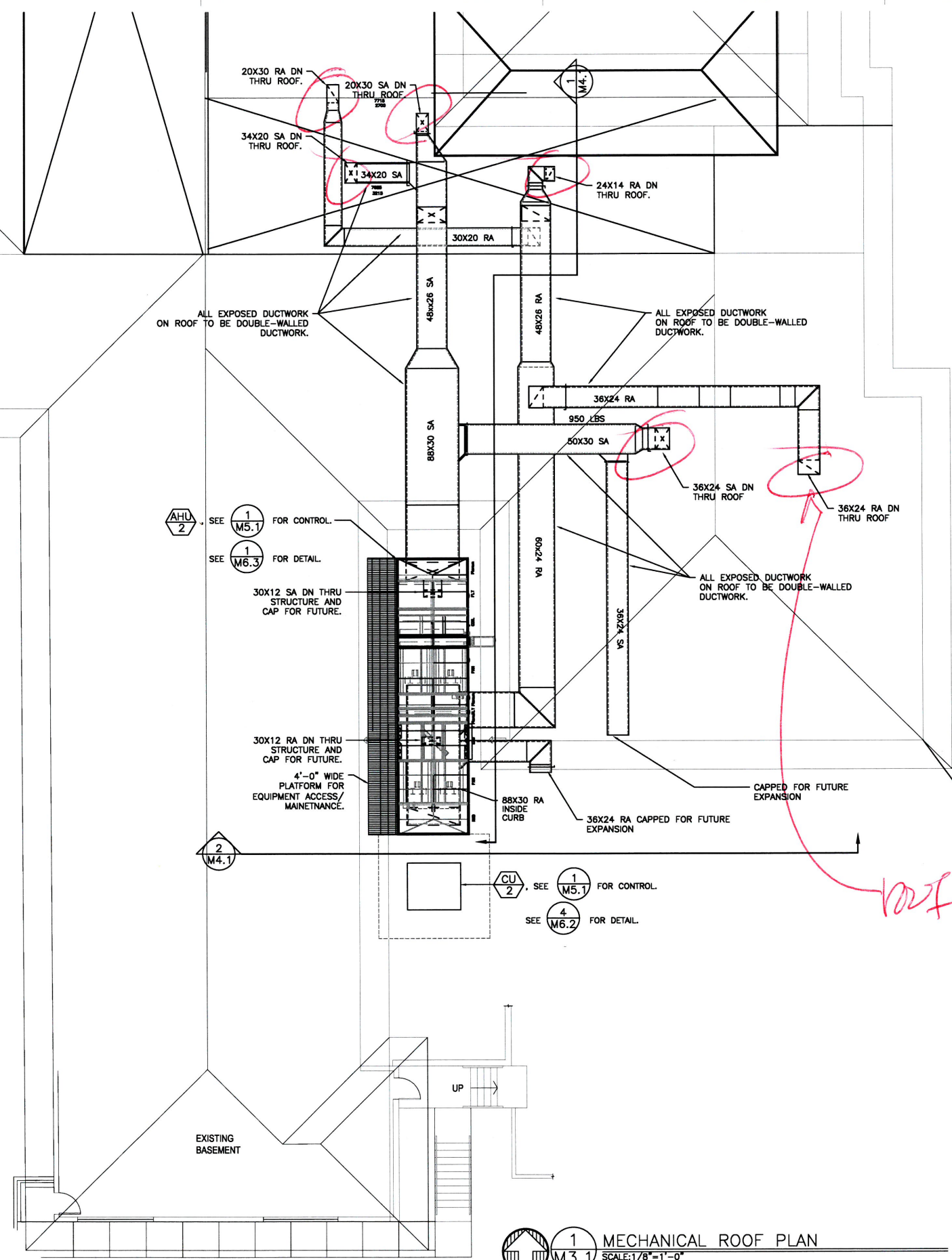
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MECHANICAL IMPROVEMENTS FOR:  
 SKYLINE HOSPITAL  
 HVAC SYSTEM UPGRADES  
 211 SKYLINE DRIVE  
 WHITE SALMON, WASHINGTON 99672

PROJECT NUMBER: 160146  
 DATE: 11/11/2016  
 DRAWN: TB  
 REVISIONS: 2.16.16

PARTIAL MECHANICAL FLOOR PLAN

**M2.5**  
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- SHEET NOTES:**
1. ANY EQUIPMENT SHUT-DOWNS AND OPERATIONAL DOWNTIME SHALL BE COORDINATED WITH AND APPROVED BY THE HOSPITAL.
  2. COORDINATE PHASING OF WORK WITH HOSPITAL TO PRIOR TO COMMENCING WORK.
  3. FACILITY AND (E)AHU'S SHOULD REMAIN OPERATIONAL AS LONG AS POSSIBLE DURING CONSTRUCTION. TO MINIMIZE DOWNTIME, NEW WORK (DUCT & AHU INSTALLATION) SHALL BE INSTALLED, CONNECTED TO (E) AND NEW AHU-1 START-UP COMPLETED PRIOR TO DEMO WORK.
  4. BALANCE ALL (E) & (N) DIFFUSERS AND GRILLES TO AIRFLOWS SHOWN.
  5. CONTRACTOR TO VERIFY (E)CONDITIONS RELATIVE TO THE SCOPE OF WORK.
  6. SEE SHEETS MP2.3 & MP2.4 FOR BOILER VENT AND COMBUSTION AIR.
  7. INFORMATION DOCUMENTED ON THE PLANS ARE BASED ON AS-BUILT PLANS FROM PREVIOUS PROJECTS. CONTRACTOR TO FIELD VERIFY LOCATION OF (E) EQUIPMENTS AND ROUTING OF (E)DUCTWORK AND PIPING.

- KEYED NOTES:**
1. CONNECT (E)16" SA TO (N)34x20 SA.
  2. CONNECT (N) DUCT TO (E) DIFFUSER.
  3. RE-BALANCE (E)EXH FAN.
  4. CONNECT (E)20x24 DISCHARGE/INLET DUCTWORK TOGETHER WHERE A RA FAN WAS REMOVED.
  5. SEE (3) FOR VAV INSTALLATION AND (2) FOR CONTROLS.
  6. (E)EXTERIOR LOUVER. BLOCK LOUVER WITH SHEETMETAL INSIDE THE BUILDING. CONTRACTOR TO VERIFY EXACT LOCATION AND SIZE. APPROX SIZE FOR EACH LOUVER IS 24x18.

- MECHANICAL SCOPE- NEW WORK:**
- PROVIDE NEW AHU-2 TO REPLACE (E)AHU-1, 2, 3. AHU-2 TO BE SIZED FOR FUTURE ADDITION.
  - PROVIDE NEW DUCTWORK PER PLAN TO CONNECT EXISTING DUCTWORK TO NEW AHU-1 SYSTEM.
  - PROVIDE 4 NEW VAV BOXES TO REPLACE EXISTING SINGLE ZONE SPACES (AHU-2).
  - PROVIDE DDC CONTROLS FOR NEW AHU-1 AND NEW VAV BOXES. EXISTING VAV BOXES AND CONTROLS TO REMAIN AS-IS.
  - RE-BALANCE ALL DIFFUSERS AND GRILLES.

*roof penetrations*

**1**  
**M3.1** MECHANICAL ROOF PLAN  
SCALE: 1/8" = 1'-0"



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MECHANICAL IMPROVEMENTS FOR:



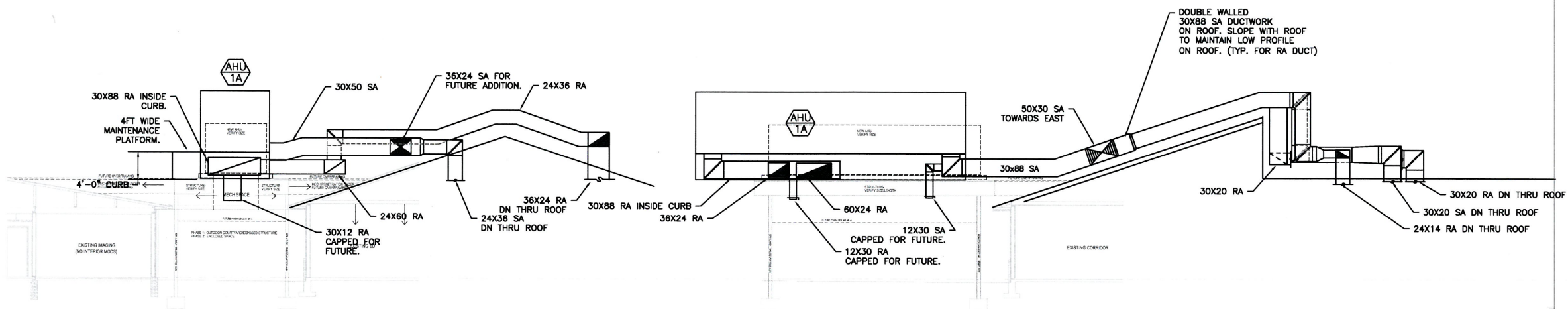
HVAC SYSTEM UPGRADES

211 SKYLINE DRIVE  
WHITE SALMON, WASHINGTON 98672

PROJECT NUMBER: 16014b  
DATE: 1/1/2016  
DRAWN: TB  
REVISIONS: 12.16.16


MECHANICAL ROOF PLAN

**M3.1**



2 E-W SECTION  
M4.1 SCALE: 1/8"=1'-0"

1 N-S SECTION  
M4.1 SCALE: 1/8"=1'-0"



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MECHANICAL IMPROVEMENTS FOR:



**SKYLINE HOSPITAL**  
HYAC SYSTEM UPGRADES

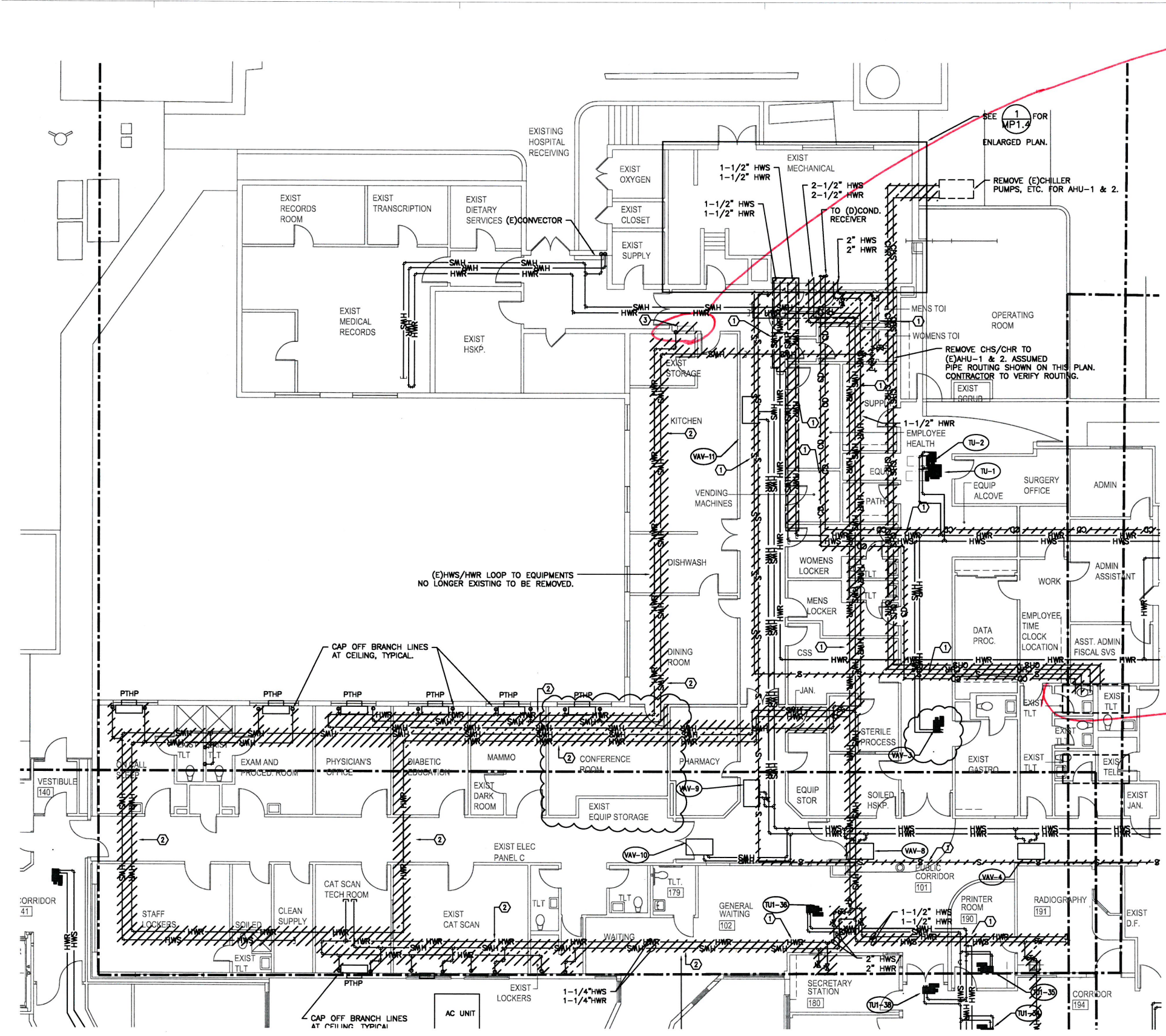
211 SKYLINE DRIVE  
WHITE SALMON, WASHINGTON 98672

PROJECT NUMBER: 160146  
DATE: 1/11/2016  
DRAWN: TB  
REVISIONS: 2/16/16

**MECHANICAL SECTIONS**

**M4.1**

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*Remove connector  
paint wall.*

**SHEET NOTES:**

- ANY EQUIPMENT SHUT-DOWNS AND OPERATIONAL DOWNTIME SHALL BE COORDINATED WITH AND APPROVED BY THE HOSPITAL.
- COORDINATE PHASING OF WORK WITH HOSPITAL TO PRIOR TO COMMENCING WORK.
- FACILITY AND (E)AHU'S SHALL REMAIN OPERATIONAL AS LONG AS POSSIBLE DURING CONSTRUCTION. TO MINIMIZE DOWNTIME, NEW WORK (PIPING, BOILERS & PUMPS, ETC) SHOULD BE INSTALLED AND CONNECTED TO EXISTING PRIOR TO ANY DEO WORK.
- EQUIPMENTS AND PIPING SHOWN ARE BASED ON EXISTING DOCUMENTS. CONTRACTOR TO VERIFY EXISTING CONDITIONS.
- COORDINATE WALL/ROOF PATCH OF EXISTING PIPING PENETRATIONS.

**KEYED NOTES:**

- DEMO EXISTING PIPING AND CAP OFF FOR CONNECTION TO NEW PIPING.
- THIS PIPING IS ABANDONED IN PLACE AND IS NO LONGER IN USE. DEMO PIPING AND CAP OFF PIPING IN THE CEILING SPACE.
- REMOVE (E)CONNECTOR AND CAP OFF PIPING IN THE WALL. REPAIR AND PAINT WALL PER ARCHITECTURAL.

**MECHANICAL PIPING DEMO SCOPE:**


REMOVE EXISTING STEAM BOILERS AND SYSTEM, INCLUDING CONTROLS, CONDENSATE RECEIVER(S), EXPANSION TANKS, BOILER FEEDERS, PIPING AND CONDENSATE RETURN LINES.

REMOVE EXISTING CHILLERS SERVING (E)AHU-1, 2 & 3, PUMPS, ACCESSORIES, ETC AND PIPING TO (E)AHU-1, 2 & 3.

THERE ARE SEVERAL EXISTING HWS/HWR LOOPS SERVING (E)VAV BOXES, UNIT VENTILATORS AND RADIATORS. REMOVE PORTIONS OF THE EXISTING MAINS PER DEMO PLAN TO TIE INTO NEW 3\"/>

*alot of piping  
demo! require  
ceiling access.*

1 PARTIAL MECHANICAL PIPING DEMO PLAN  
MP1.1 SCALE: 1/8" = 1'-0"



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MECHANICAL IMPROVEMENTS FOR:



**SKYLINES  
HOSPITAL**

HYAC SYSTEM UPGRADES

211 SKYLINE DRIVE  
WHITE SALMON, WASHINGTON 98672

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PROJECT NUMBER: 160146  
DATE: 1/11/2016  
DRAWN: TB  
REVISIONS: 02/16

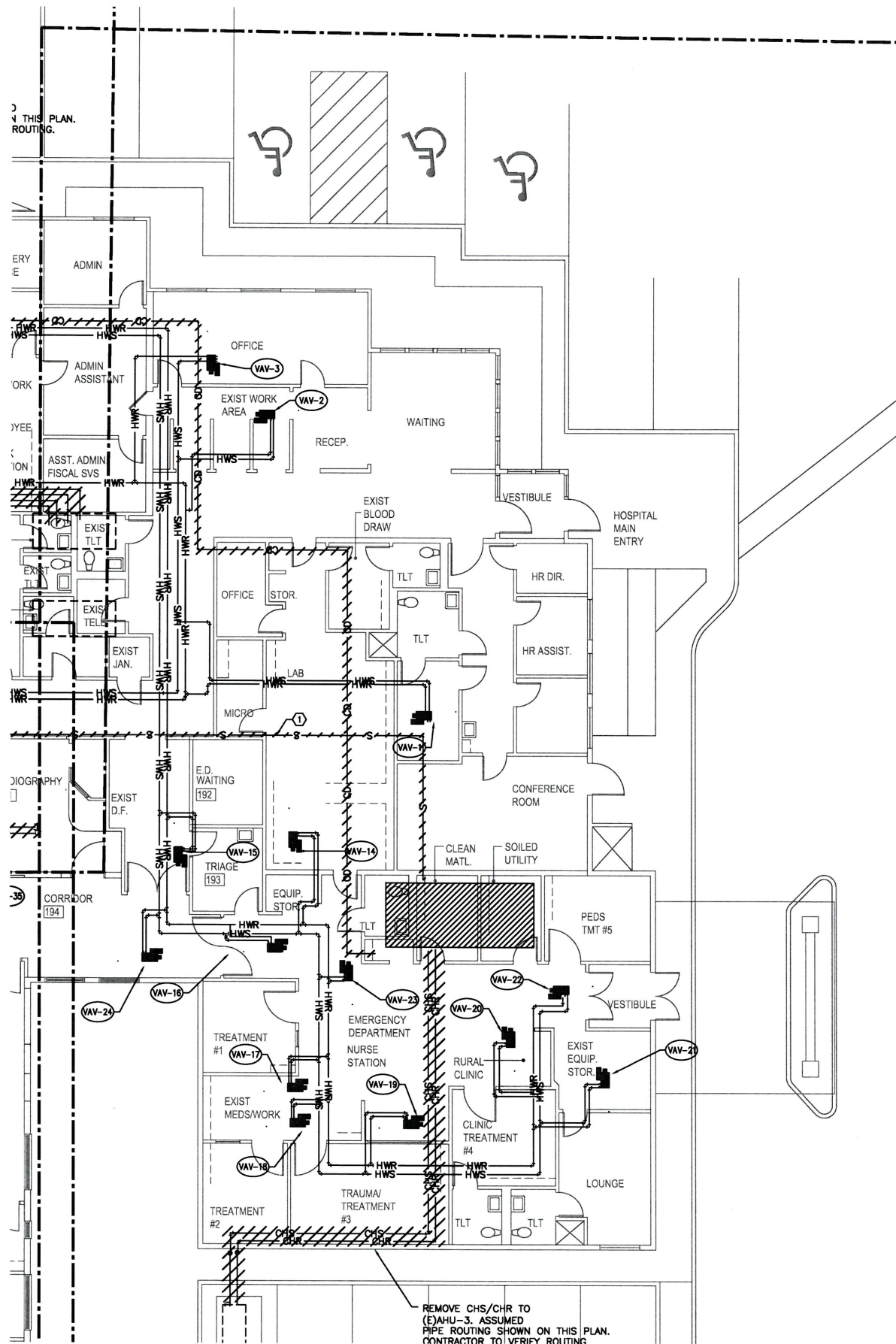
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**PARTIAL MECHANICAL  
PIPING  
DEMO PLAN**

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**MP1.1**

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**SHEET NOTES:**

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3. FACILITY AND (E)AHU'S SHALL REMAIN OPERATIONAL AS LONG AS POSSIBLE DURING CONSTRUCTION. TO MINIMIZE DOWNTIME, NEW WORK (PIPING, BOILERS & PUMPS, ETC) SHOULD BE INSTALLED AND CONNECTED TO EXISTING PRIOR TO ANY DEO WORK.
4. EQUIPMENTS AND PIPING SHOWN ARE BASED ON EXISTING DOCUMENTS. CONTRACTOR TO VERIFY EXISTING CONDITIONS.
5. COORDINATE WALL/ROOF PATCH OF EXISTING PIPING PENETRATIONS.

**KEYED NOTES:** (E)

1. DEMO EXISTING PIPING AND CAP OFF FOR CONNECTION TO NEW PIPING.
2. THIS PIPING IS ABANDONED IN PLACE AND IS NO LONGER IN USE. DEMO PIPING AND CAP OFF PIPING IN THE CEILING SPACE.
3. REMOVE (E)CONNECTOR AND CAP OFF PIPING IN THE WALL. REPAIR AND PAINT WALL PER ARCHITECTURAL.

**MECHANICAL PIPING DEMO SCOPE:**

REMOVE EXISTING STEAM BOILERS AND SYSTEM, INCLUDING CONTROLS, CONDENSATE RECEIVER(S), EXPANSION TANKS, BOILER FEEDERS, PIPING AND CONDENSATE RETURN LINES.

REMOVE EXISTING CHILLERS SERVING (E)AHU-1,2 & 3, PUMPS, ACCESSORIES, ETC AND PIPING TO (E)AHU-1, 2 & 3.

THERE ARE SEVERAL EXISTING HWS/HWR LOOPS SERVING (E)VAV BOXES, UNIT VENTILATORS AND RADIATORS. REMOVE PORTIONS OF THE EXISTING MAINS PER DEMO PLAN TO TIE INTO NEW 3" HWS/HWR MAINS FROM THE 2008 ADDITION BOILER ROOM.

*- ceiling access for piping demo*

1 PARTIAL MECHANICAL PIPING DEMO PLAN  
 MP1.2 SCALE: 1/8" = 1'-0"

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MECHANICAL IMPROVEMENTS FOR:

**SKYLIGHT HOSPITAL**  
 HVAC SYSTEM UPGRADES

211 SKYLINE DRIVE  
 WHITE SALMON, WASHINGTON 98672

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PROJECT NUMBER: 160140  
 DATE: 11/12/16  
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 REVISIONS: 12.16.16

---

**PARTIAL MECHANICAL PIPING DEMO PLAN**

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**MP1.1**

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**MECHANICAL PIPING DEMO SCOPE:**

REMOVE EXISTING STEAM BOILERS AND SYSTEM, INCLUDING CONTROLS, CONDENSATE RECEIVER(S), EXPANSION TANKS, BOILER FEEDERS, PIPING AND CONDENSATE RETURN LINES.

REMOVE EXISTING CHILLERS SERVING (E)AHU-1,2 & 3, PUMPS, ACCESSORIES, ETC AND PIPING TO (E)AHU-1, 2 & 3.

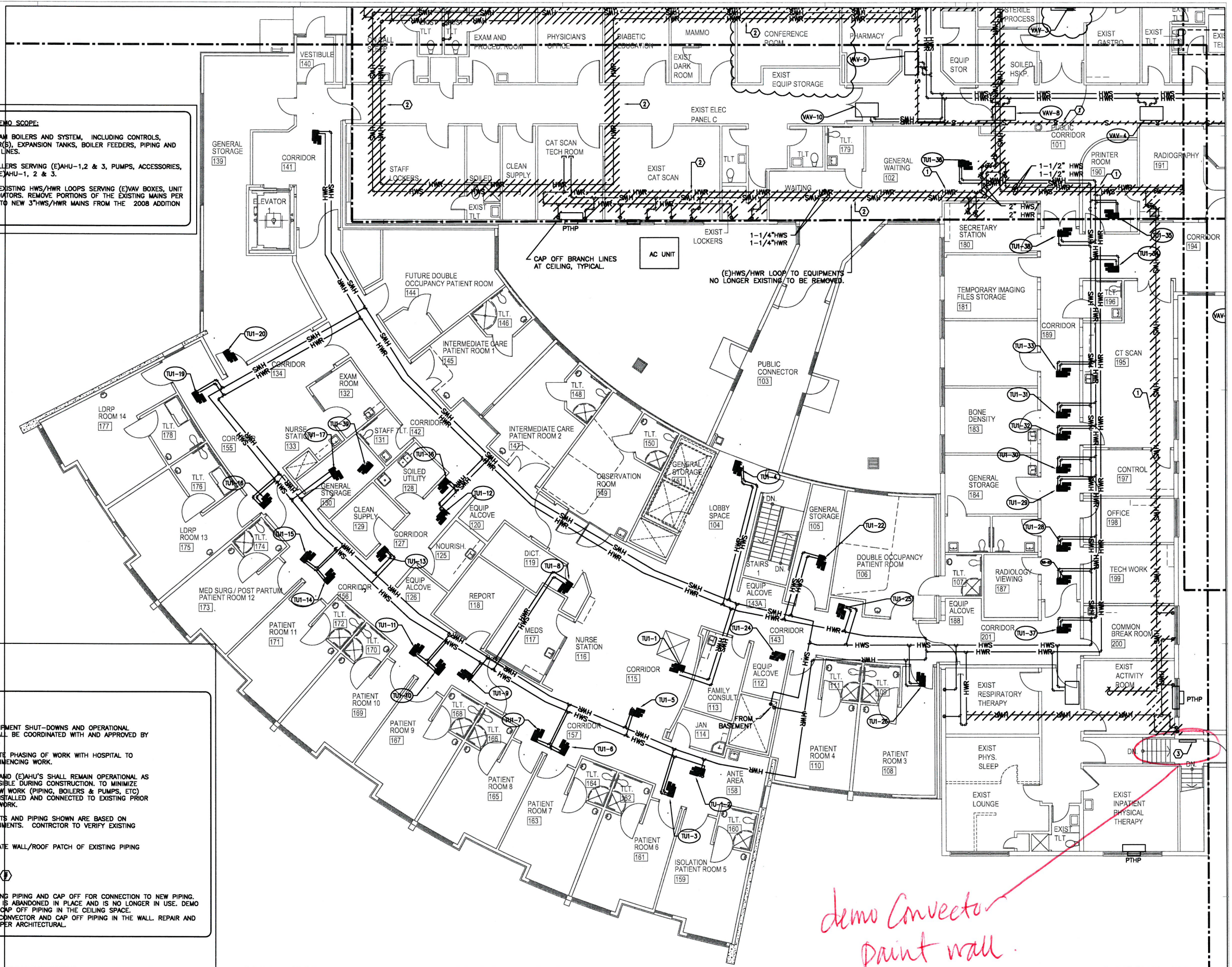
THERE ARE SEVERAL EXISTING HWS/HWR LOOPS SERVING (E)VAV BOXES, UNIT VENTILATORS AND RADIATORS. REMOVE PORTIONS OF THE EXISTING MAINS PER DEMO PLAN TO TIE INTO NEW 3"HWS/HWR MAINS FROM THE 2008 ADDITION BOILER ROOM.

**SHEET NOTES:**

1. ANY EQUIPMENT SHUT-DOWNS AND OPERATIONAL DOWNTIME SHALL BE COORDINATED WITH AND APPROVED BY THE HOSPITAL.
2. COORDINATE PHASING OF WORK WITH HOSPITAL TO PRIOR TO COMMENCING WORK.
3. FACILITY AND (E)AHU'S SHALL REMAIN OPERATIONAL AS LONG AS POSSIBLE DURING CONSTRUCTION. TO MINIMIZE DOWNTIME, NEW WORK (PIPING, BOILERS & PUMPS, ETC) SHOULD BE INSTALLED AND CONNECTED TO EXISTING PRIOR TO ANY DEMO WORK.
4. EQUIPMENTS AND PIPING SHOWN ARE BASED ON EXISTING DOCUMENTS. CONTRACTOR TO VERIFY EXISTING CONDITIONS.
5. COORDINATE WALL/ROOF PATCH OF EXISTING PIPING PENETRATIONS.

**KEYED NOTES:** (E)

1. DEMO EXISTING PIPING AND CAP OFF FOR CONNECTION TO NEW PIPING.
2. THIS PIPING IS ABANDONED IN PLACE AND IS NO LONGER IN USE. DEMO PIPING AND CAP OFF PIPING IN THE CEILING SPACE.
3. REMOVE (E)CONNECTOR AND CAP OFF PIPING IN THE WALL. REPAIR AND PAINT WALL PER ARCHITECTURAL.



1 PARTIAL MECHANICAL PIPING DEMO PLAN  
 MP1.3 SCALE: 1/8"=1'-0"



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MECHANICAL IMPROVEMENTS FOR:

SKYLINE  
 HOSPITAL  
 HVAC SYSTEM UPGRADES

211 SKYLINE DRIVE  
 WHITE SALMON, WASHINGTON 98672

PROJECT NUMBER: 160146  
 DATE: 11/12/16  
 DRAWN: TB  
 REVISIONS: 12.16.16

PARTIAL MECHANICAL PIPING DEMO PLAN

MP1.3

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MECHANICAL IMPROVEMENTS FOR:

SKVLINE  
HOSPITAL  
HVAC SYSTEM UPGRADES

211 SKYLINE DRIVE  
WHITE SALMON, WASHINGTON 98672

PROJECT NUMBER: 160146  
DATE: 11/12/16  
DRAWN: TB  
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EXISTING BOILER ROOM  
DEMO PLAN

MP1.4

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**EXISTING BOILER ROOM SCOPE:**

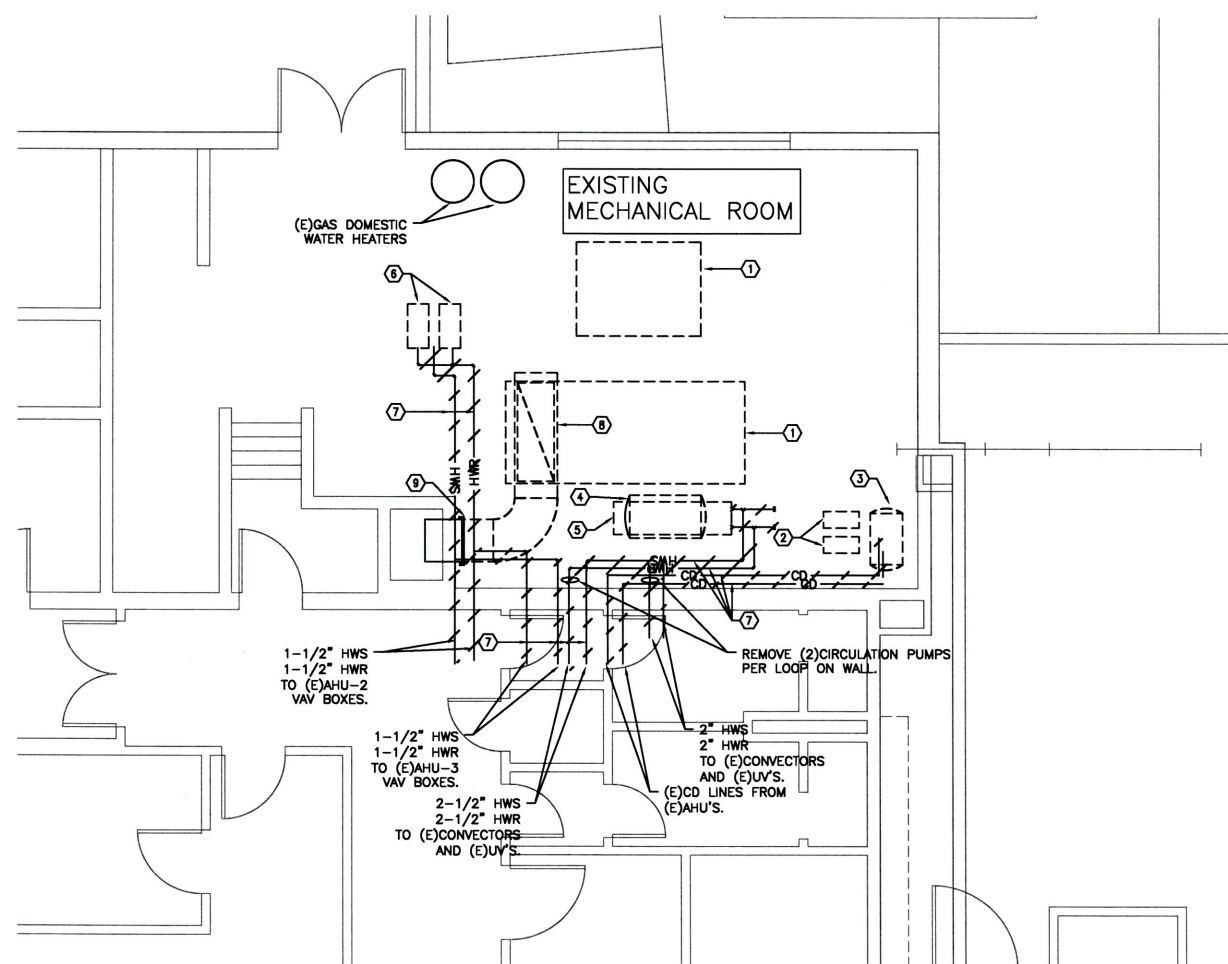
EXISTING STEAM BOILERS, HW CONVERTORS, STEAM PIPING, TRAPS, PUMPS, CONTROLS AND ALL OTHER RELATED ACCESSORIES TO BE REMOVED. NEW BOILER IS PROVIDED IN THE 2008 ADDITION MECHANICAL ROOM.

**GENERAL NOTES:**

- EQUIPMENTS AND PIPING SHOWN ARE BASED ON EXISTING DOCUMENTS. CONTRACTOR TO VERIFY EXISTING CONDITIONS.
- COORDINATE WALL PATCH OF EXISTING PIPE PENETRATIONS TO BE REMOVED.

**KEYED NOTES:**

- ① - REMOVE (E)STEAM BOILER, FLUE, PIPING, CONDENSATE TRAPS, CONTROLS AND ALL RELATED ACCESSORIES
- ② - REMOVE (E)BOILER FEEDER PUMPS
- ③ - REMOVE (E)CONDENSATE FEEDER.
- ④ - REMOVE (E)EXPANSION TANK (ABOVE HW CONVERTOR).
- ⑤ - REMOVE (E)HW CONVERTOR.
- ⑥ - REMOVE (E)HW PUMPS.
- ⑦ - REMOVE (E)PIPING. SEE MP11 FOR CONTINUATION.
- ⑧ - REMOVE (E)BOILER FLUE
- ⑨ - CAP FLUE ● CHIMNEY.



1 EXISTING BOILER ROOM DEMO  
MP1.4 SCALE: 1/4" = 1'-0"

**SHEET NOTES:**

1. ANY EQUIPMENT SHUT-DOWNS AND OPERATIONAL DOWNTIME SHALL BE COORDINATED WITH AND APPROVED BY THE HOSPITAL.
2. COORDINATE PHASING OF WORK WITH HOSPITAL TO PRIOR TO COMMENCING WORK.
3. FACILITY AND (E)AHU'S AND BOILERS SHALL REMAIN OPERATIONAL AS LONG AS POSSIBLE DURING CONSTRUCTION. TO MINIMIZE DOWNTIME, NEW WORK (PIPING, BOILERS & PUMPS, ETC) SHOULD BE INSTALLED AND CONNECTED TO EXISTING PRIOR TO ANY DEO WORK.
4. EQUIPMENTS AND PIPING SHOWN ARE BASED ON EXISTING DOCUMENTS. CONTRACTOR TO VERIFY EXISTING CONDITIONS.

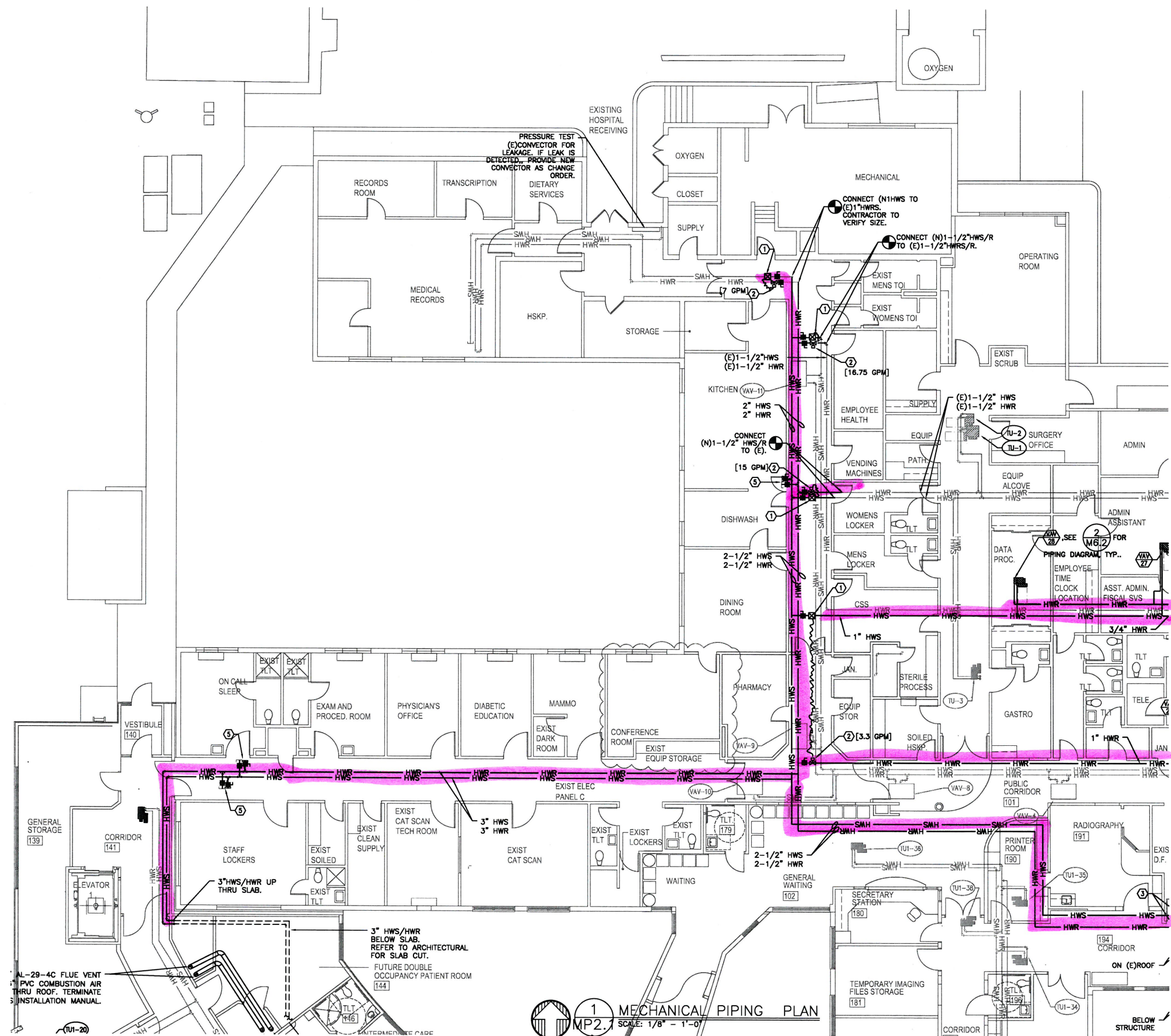
**KEYED NOTES:**

- 1 - VICTAULIC T/A SERIES 794 DIFF. PRESSURE CONTROLLER.
- 2 - VICTAULIC T/A STAD SERIES BALANCE VALVE. SIZED FOR GPM SHOWN ON PLAN.
- 3 - 2" HWS/2"HWR UP THRU ROOF; ROUTE PIPING ON (E)ROOF AND INTO BELOW AHU PLATFORM STRUCTURE. HEAT TRACE EXPOSED PIPING UNDER AHU PLATFORM. RUN PIPE TIGHT TO STRUCTURE.
- 4 - 2" HWS/HWR UP THRU PLATFORM INTO COIL HOUSING.
- 5 - 1-1/2" HWS/HWR CAPPED WITH SHUT-OFF VALVES FOR FUTURE.


**MECHANICAL PIPING SCOPE:**

INSTALL NEW 3" HWS/HWR MAINS FROM 2008 ADDITION BOILER ROOM AND MAKE CONNECTIONS TO (E)HWS/HWR LOOPS.  
 CONNECT HWS/HWR PIPING TO NEW VAV BOXES AND NEW AHU-1.  
 PROVIDE REFRIGERANT LINES FROM NEW CU-1 TO NEW AHU-1.  
 SEE BOILER ROOM PLAN FOR SCOPE IN BOILER ROOM.

*Ceiling access for new piping*



**1 MECHANICAL PIPING PLAN**  
 MP2.1 SCALE: 1/8" = 1'-0"



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MECHANICAL IMPROVEMENTS FOR:



**SKYLINE HOSPITAL**

**HVAC SYSTEM UPGRADES**

211 SKYLINE DRIVE  
 WHITE SALMON, WASHINGTON 99672

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PROJECT NUMBER: 160146  
 DATE: 11/12/16  
 DRAWN: TB  
 REVISIONS: 02.16.16

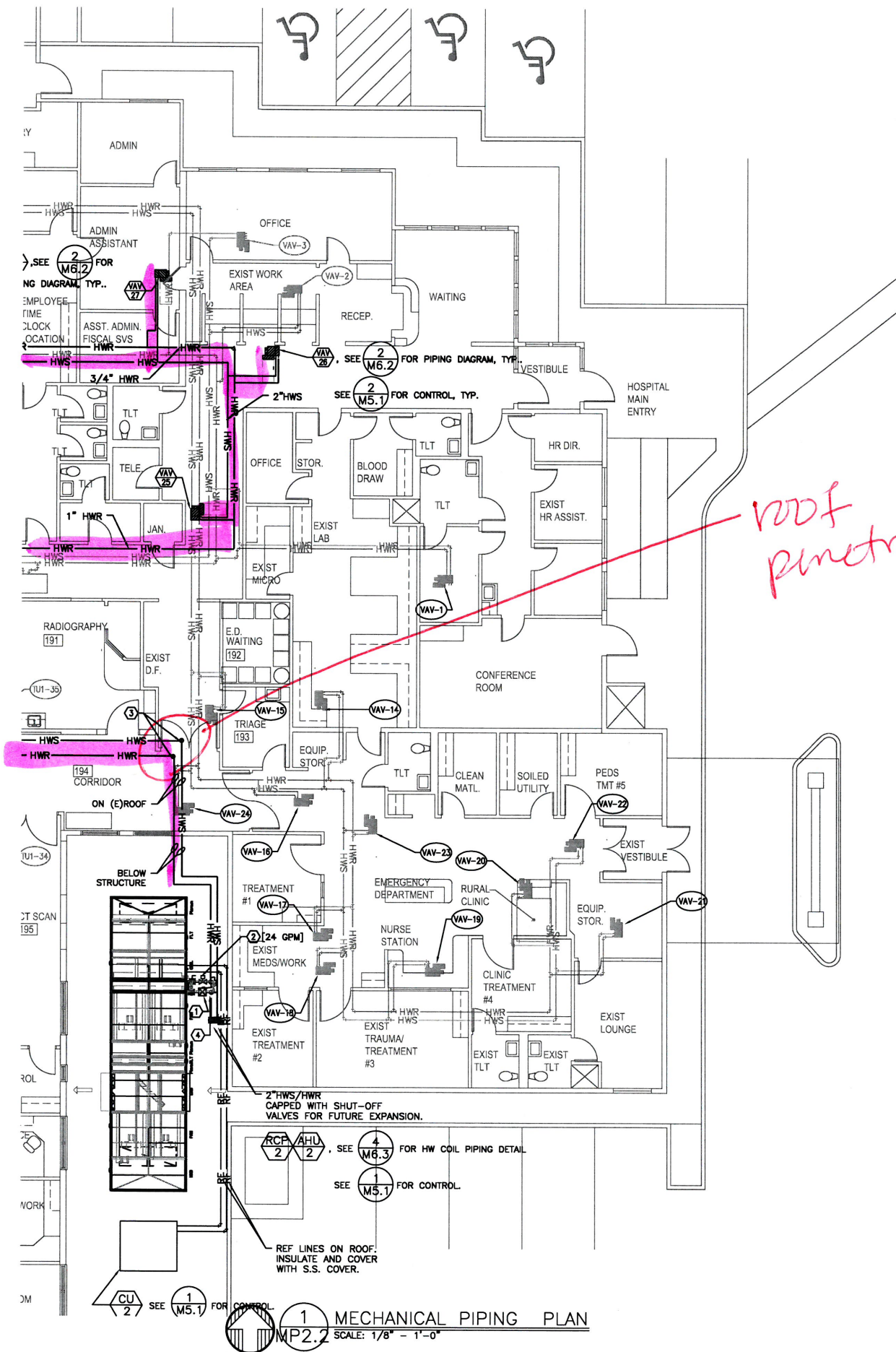
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**MECHANICAL PIPING PLAN**

# MP2.1

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**MECHANICAL PIPING SCOPE:**

INSTALL NEW 3" HWS/HWR MAINS FROM 2008 ADDITION BOILER ROOM AND MAKE CONNECTIONS TO (E)HWS/HWR LOOPS.

CONNECT HWS/HWR PIPING TO NEW VAV BOXES AND NEW AHU-1.

PROVIDE REFRIGERANT LINES FROM NEW CU-1 TO NEW AHU-1.

SEE BOILER ROOM PLAN FOR SCOPE IN BOILER ROOM.

*roof penetration*

*Ceiling access for new piping*

1 MECHANICAL PIPING PLAN  
MP2.2 SCALE: 1/8" = 1'-0"



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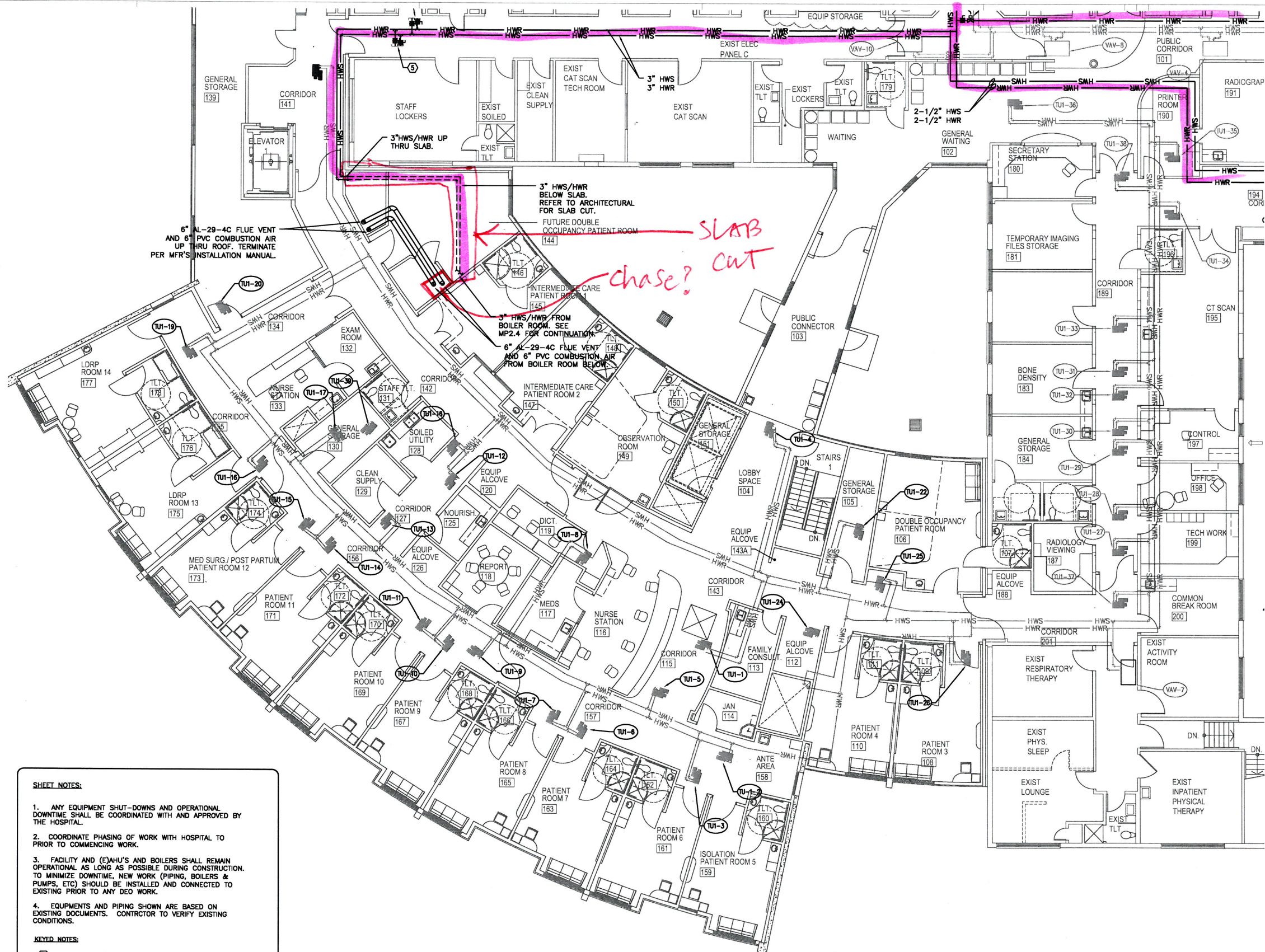
THIS PROJECT INCLUDES THE INTERIOR REMODEL OF AN EXISTING CRITICAL ACCESS HOSPITAL FACILITY THAT IS TO REMAIN OPERATIONAL AT ALL TIMES. CONTRACTOR BIDS SHALL BE BASED ON VERIFICATION OF EXISTING ONSITE CONDITIONS. UNINTERRUPTED ESSENTIAL HEALTHCARE SERVICES DURING THE CONSTRUCTION PERIOD, ONGOING COORDINATION OF ALL RELATED TRADES FOR CURRENT CODE COMPLIANCE, PATIENT SAFETY, JURISDICTIONAL REVIEW, SYSTEM PERFORMANCE AND UNFORESEEN CLINICAL DISRUPTION(S).

MECHANICAL IMPROVEMENTS FOR:  
SKYLINE HOSPITAL  
HVAC SYSTEM UPGRADES  
211 SKYLINE DRIVE  
WHITE SALMON, WASHINGTON 99612

PROJECT NUMBER: 160146  
DATE: 1/12/16  
DRAWN: TB  
REVISIONS: 2/16/16

MECHANICAL PIPING PLAN

MP2.2



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SEE BOILER ROOM PLAN FOR SCOPE IN BOILER ROOM.

1 MECHANICAL PIPING PLAN  
MP2.3 SCALE: 1/8" = 1'-0"



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MECHANICAL IMPROVEMENTS FOR:



**SKYLINE HOSPITAL**

**HVAC SYSTEM UPGRADES**

211 SKYLINE DRIVE  
WHITE SALMON, WASHINGTON 98672

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PROJECT NUMBER: 16014b  
DATE: 11/12/16  
DRAWN: TB  
REVISIONS: 2.16.16

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**MECHANICAL PIPING PLAN**

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**MP2.3**

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