













GENERAL NOTES - MECHANICAL

A. COORDINATE THE LOCATION OF DRAINS, THERMOSTATS, GAS OUTLETS, ETC., WITH ALL CASEWORK EQUIPMENT, MECHANICAL ROOM EQUIPMENT, ETC., PRIOR TO COMMENCING INSTALLATION. WORK NOT SO COORDINATED SHALL BE REMOVED AND PROPERLY INSTALLED AT THE EXPENSE OF THE CONTRACTOR.

ABBREVIATIONS

A/E ARCHITECT / ENGINEER
AAHX AIR TO AIR HEAT EXCHANGER
AAVJ AUTOMATIC AIR VENT
ACCU AIR COOLED CONDENSING UNIT

EA EXHAUST AIR
EAT ENTERING AIR TEMPERATURE
EC EVAPORATIVE COOLER
ECU ENGINEERING CONTROL CENTER

F FAHRENHEIT
F&T FLOAT AND THERMOSTATIC
FISDPR COMBINATION FIRE SMOKE DAMPER
FA FREE AREA

GA GAUGE
GAL GALLONS
GH GRAVITY HOOD
GPD GALLONS PER DAY

NA NOT APPLICABLE
NC NOISE CRITERIA
NC NORMALLY CLOSED

P PUMP
PC PUMPED CONDENSATE
PCF POUNDS PER CUBIC FOOT (FEET)
PD PRESSURE DROP

SP GR SPECIFIC GRAVITY
SPD SUPPLY PROCESS AND DISTRIBUTION
SPRV STEAM PRESSURE REDUCING VALVE

GENERAL SYMBOLS

Table with 2 columns: Symbol and Description. Includes TAGGED NOTE DESIGNATOR, REVISION TRIANGLE, ROOM TAG, EQUIPMENT TAG, POINT OF CONNECTION / CONNECT TO EXISTING, POINT OF DEMOLITION.

MECHANICAL PIPING LEGEND

Table with 2 columns: Symbol and Description. Includes PIPE ELBOW TURNING UP, PIPE ELBOW TURNING DOWN, PIPE TEE: CONNECTION ON TOP, PIPE TEE: CONNECTION ON BOTTOM, PIPE CAP, BOILER FEEDWATER, COMBUSTION AIR INTAKE/EXHAUST, CHILLED BEAM SUPPLY/RETURN, CONDENSATE DRAIN, CHILLED WATER SUPPLY/RETURN, CLEAN WATER PIPING, CONDENSER WATER SUPPLY/RETURN, DUAL TEMP. WATER SUPPLY/RETURN, GEOTHERMAL WATER SUPPLY/RETURN, HIGH PRESSURE STEAM CONDENSATE, HIGH PRESSURE STEAM, HEAT PUMP WATER SUPPLY/RETURN, HEAT RECOVERY SUPPLY/RETURN PIPING, HEATING WATER SUPPLY/RETURN, LOW PRESSURE STEAM CONDENSATE, LOW PRESSURE STEAM, MEDIUM PRESSURE STEAM RETURN, MEDIUM PRESSURE STEAM, STEAM CONDENSATE PUMPED DISCHARGE, STEAM VENT PIPING, PIPING TO BE DEMOLISHED, EXISTING PIPING, ABANDONED IN PLACE PIPING, TWO-WAY CONTROL VALVE, THREE-WAY CONTROL VALVE, AUTOMATIC AIR VENT (AAV), MANUAL AIR VENT (MAV), MANUAL BALANCING VALVE (BHV), BALL VALVE, BUTTERFLY VALVE, TRIPLE DUTY VALVE (TDV), STRAINER, MANUAL ISOLATION VALVE, GLOBE VALVE, OSSY (GATE) VALVE, PRESSURE REDUCING VALVE (STEAM, GAS, WATER, ETC.), AUTO-FLOW CONTROL VALVE, CHECK VALVE, DOUBLE CHECK VALVE ASSEMBLY, FLEXIBLE PIPE CONNECTION, FLOW METER (VENTURI), PIPING UNION, FLOW SWITCH, PRESSURE SWITCH, TAMPER SWITCH, THERMOMETER, PETE'S PLUG; TEMPERATURE/PRESSURE PORT.

HVAC LEGEND

Table with 2 columns: Symbol and Description. Includes SUPPLY AIR DIFFUSER, RETURN AIR DIFFUSER, EXHAUST AIR DIFFUSER, TRANSFER AIR DIFFUSER W/ SOUND ATTENUATING BOOT, SIDEWALL DIFFUSER/GRILLE, AIR DEVICE TAG (REGISTER, GRILLE, DIFFUSER, LOUVER), RECTANGULAR DUCT, ROUND/SPIRAL DUCT, FLAT OVAL DUCT, SUPPLY AIR DUCT, RETURN AIR DUCT, EXHAUST AIR DUCT, OUTSIDE AIR DUCT, TRANSFER AIR DUCT, COMBUSTION AIR EXHAUST DUCT, COMBUSTION AIR INTAKE DUCT, SA AIR DUCT TURNING UP, SA AIR DUCT TURNING DOWN, RA AIR DUCT TURNING UP, RA AIR DUCT TURNING DOWN, EA AIR DUCT TURNING UP, EA AIR DUCT TURNING DOWN, EXISTING DUCT, DUCT TO BE DEMOLISHED, DUCT TO BE ABANDONED IN PLACE, MITERED ELBOW WITH TURNING VANES, FLEXIBLE DUCT, THERMOSTAT, TEMPERATURE SENSOR, HUMIDITY SENSOR, CARBON DIOXIDE SENSOR, TEMPERATURE & CARBON DIOXIDE SENSOR, MANUAL BALANCING/VOLUME DAMPER, MOTORIZED DAMPER, FIRE DAMPER, SMOKE DAMPER, COMBINATION FIRE & SMOKE DAMPER.

Sheet List - Mechanical

Table with 2 columns: SHEET # and SHEET NAME. Lists sheets MM001 through MM600 including Mechanical Notes and Legend, Demolition - Basement, Demolition - Second Floor, Demolition - Attic, Demolition - Third Floor, Demolition - Third Floor Hydronics, Demolition - Third Floor Hydronics, Demolition - Third Floor, Demolition - Attic, Demolition - Roof, Hydronics Plan - Basement, Hydronics Plan - Second Floor, Hydronics Plan - Third Floor, Mechanical Sections, Mechanical Details, Mechanical Details, Mechanical Details, Mechanical Controls, Mechanical Controls, Mechanical Controls, Mechanical Schedules.

GENERAL NOTES - DEMOLITION

A. THE CONTRACTOR SHALL REFER TO THE ARCHITECTURAL PLANS FOR AREAS IN WHICH THE CEILING IS REMAINING. THE CONTRACTOR IS RESPONSIBLE FOR REMOVING THE EXISTING CEILING AS REQUIRED AND REINSTALLATION, TEMPORARILY SUPPORT LIGHTS, DIFFUSERS, CEILING ETC. REPLACE BROKEN CEILING TILES WITH NEW AT NO ADDITIONAL COST TO OWNER. FIELD VERIFY EXACT REQUIREMENTS.

HAZARDOUS MATERIALS NOTES

A. THE CONTRACTOR IT IS HEREBY ADVISED THAT IT IS POSSIBLE THAT ASBESTOS AND/OR OTHER HAZARDOUS MATERIALS ARE OR WERE PRESENT IN THIS BUILDING(S). ANY WORKER, OCCUPANT, VISITOR, ETC., WHO ENCOUNTERS ANY MATERIAL OF WHICH THEY ARE NOT CERTAIN SHALL PROMPTLY REPORT THE EXISTENCE AND LOCATION OF THAT MATERIAL TO THE OWNER. FURTHERMORE, THE CONTRACTOR SHALL INSURE THAT NO ONE COMES NEAR TO OR IN CONTACT WITH ANY SUCH MATERIAL OR FUMES THEREFROM UNTIL ITS CONTENT CAN BE ASCERTAINED TO BE NON-HAZARDOUS.

STAMP: BENNETH L. SEIFERTZ, LICENSED PROFESSIONAL ENGINEER, 20405. Office of Construction and Facilities Management, U.S. Department of Veterans Affairs.

Table with 2 columns: Title and Description. Includes MECHANICAL NOTES AND LEGEND, BID DOCUMENTS.

Table with 4 columns: Project Title, Project Number, Location, Issue Date, Checked, Drawn, Drawing Number. Includes VA WICHITA - MED/SURG BEDS FOR PATIENT PRIVACY, 589-701, WICHITA, KANSAS, 05/22/2020, MM001.

Project information and logos for CONSULTANT (CMTA), ARCHITECT/ENGINEER OF RECORD (GUIDON), and Office of Construction and Facilities Management (U.S. Department of Veterans Affairs).



**MECHANICAL DEMOLITION NOTES:**

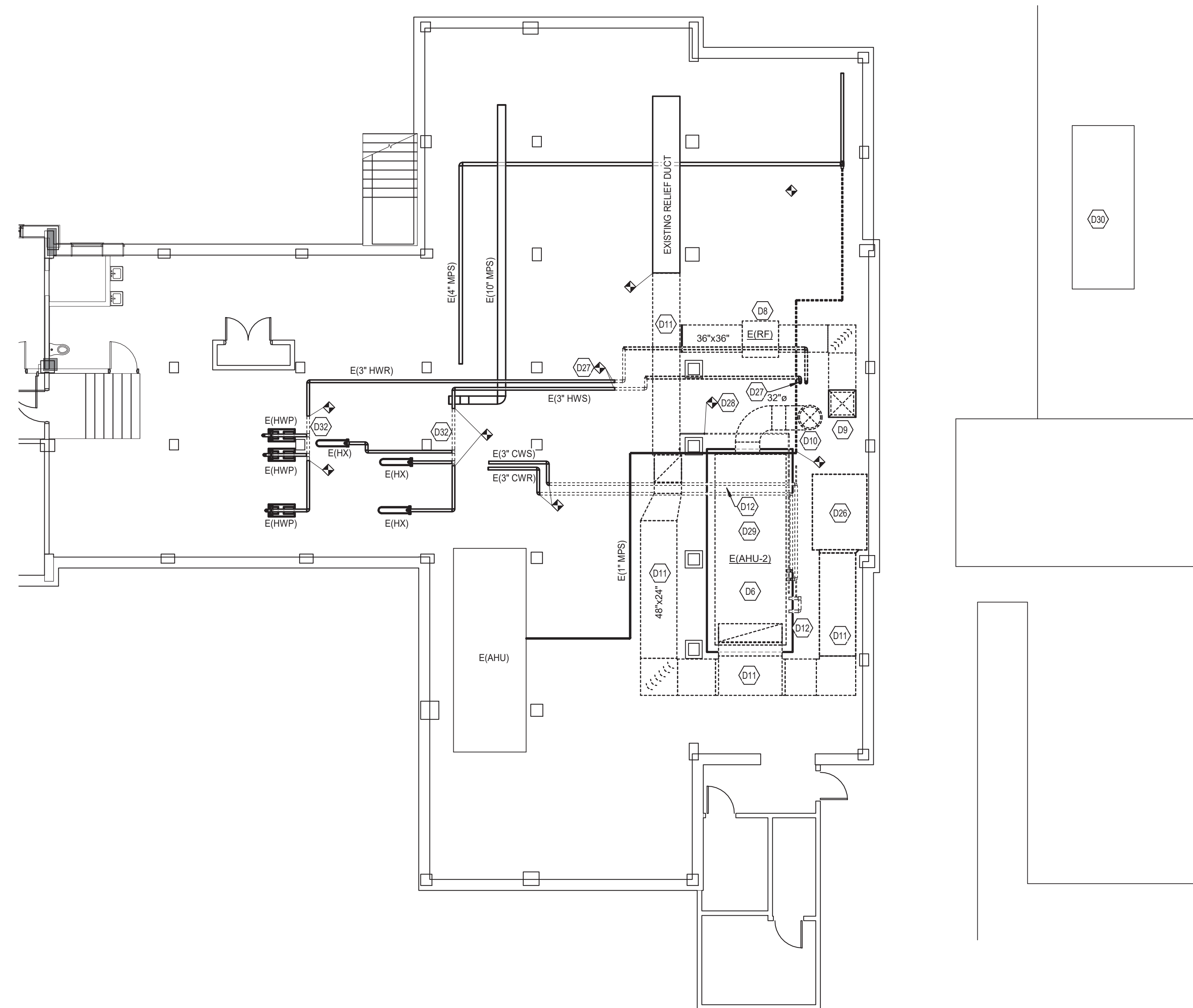
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- B. ALL OUTAGES SHALL BE SCHEDULED THROUGH THE PROJECT REPRESENTATIVE FOR PROPER COORDINATION. A REQUEST FOR AN OUTAGE SHALL BE SUBMITTED IN WRITING A MINIMUM OF TWO WEEKS IN ADVANCE.
- C. DURING SPRINKLER SYSTEM OUTAGES THE CONTRACTORS SHALL PROVIDE FIRE WATCH OF AREAS WITH OUTAGES.
- D. ALL WALLS AND FLOOR SLABS SHALL BE REPAIRED TO MATCH EXISTING AND TO A LIKE NEW CONDITION. ALL RATED WALLS AND FLOOR SLABS SHALL BE PATCHED AND REPAIRED TO MAINTAIN RATING.
- E. ALL EXISTING BUILDING FINISHES SHALL BE PROTECTED DURING THE DEMOLITION PHASE.
- F. HEAVY DASHED LINES INDICATE ITEMS FOR REMOVAL (U O N) AND LIGHT SOLID LINES INDICATE EXISTING ITEMS TO REMAIN.
- G. COORDINATE DISPOSAL OF ALL FIXTURES, DEVICES, ETC. (INDICATED FOR DEMOLITION) WITH THE OWNER.

| TAGGED NOTES |  |
|--------------|--|
| D6           | EXISTING AHU-2 TO BE REMOVED COMPLETE INCLUDING ALL PIPING, CONTROLS ETC. CONCRETE PAD TO REMAIN.  |
| D8           | REMOVE RETURN FAN COMPLETE.  |
| D9           | REMOVE RETURN DUCT UP IN CHASE TO THIRD FLOOR.   |
| D10          | REMOVE SUPPLY DUCTWORK UP IN CHASE TO THIRD FLOOR.   |
| D11          | REMOVE DUCTWORK TO POINT INDICATED.  |
| D12          | REMOVE CHILLED WATER PIPING TO POINTS INDICATED.   |
| D26          | REMOVE INTAKE PLENUM.  |
| D27          | REMOVE HWS/R PIPING FROM POINT INDICATED UP TO FIRST FLOOR.  |
| D28          | REMOVE 1" MFS AND DRAIN TO POINT INDICATED AND CAP.  |
| D29          | REMOVE ANY EXISTING PIPING TO REMAIN AS REQUIRED TO ALLOW REMOVAL OF AHU AND INSTALLATION OF NEW AHU. REROUTE/REINSTALL EXISTING PIPING. |
| D30          | APPROXIMATE LOCATION FOR TEMPORARY AHU. REFER TO ARCHITECTURAL PLANS FOR LOCATION AND EXTENT OF FENCING.                                 |
| D32          | REMOVE SECTION OF 3"HWS AND HWR PIPING AS INDICATED.   |

- PHASING NOTES:**
- SECOND FLOOR EAST MUST REMAIN FUNCTIONAL.
  - PRIOR TO REMOVAL OF E(AHU-2) A TEMPORARY AHU SHALL BE PROVIDED.
  - ROUTE TEMPORARY DUCT IN THRU OA INTAKE LOUVER AND CONNECT TO SUPPLY AND RETURN DUCT.
  - IF TEMPORARY UNIT HAS CHILLED WATER COIL, RUN TEMPORARY PIPING TO SERVE UNIT.
  - REFER TO ARCHITECTURAL PLANS FOR LOCATION OF TEMPORARY UNIT.
  - COORDINATE ANY OUTAGES WITH OWNER/ARCHITECT.

**BID DEDUCTIVE ALTERNATE 2**

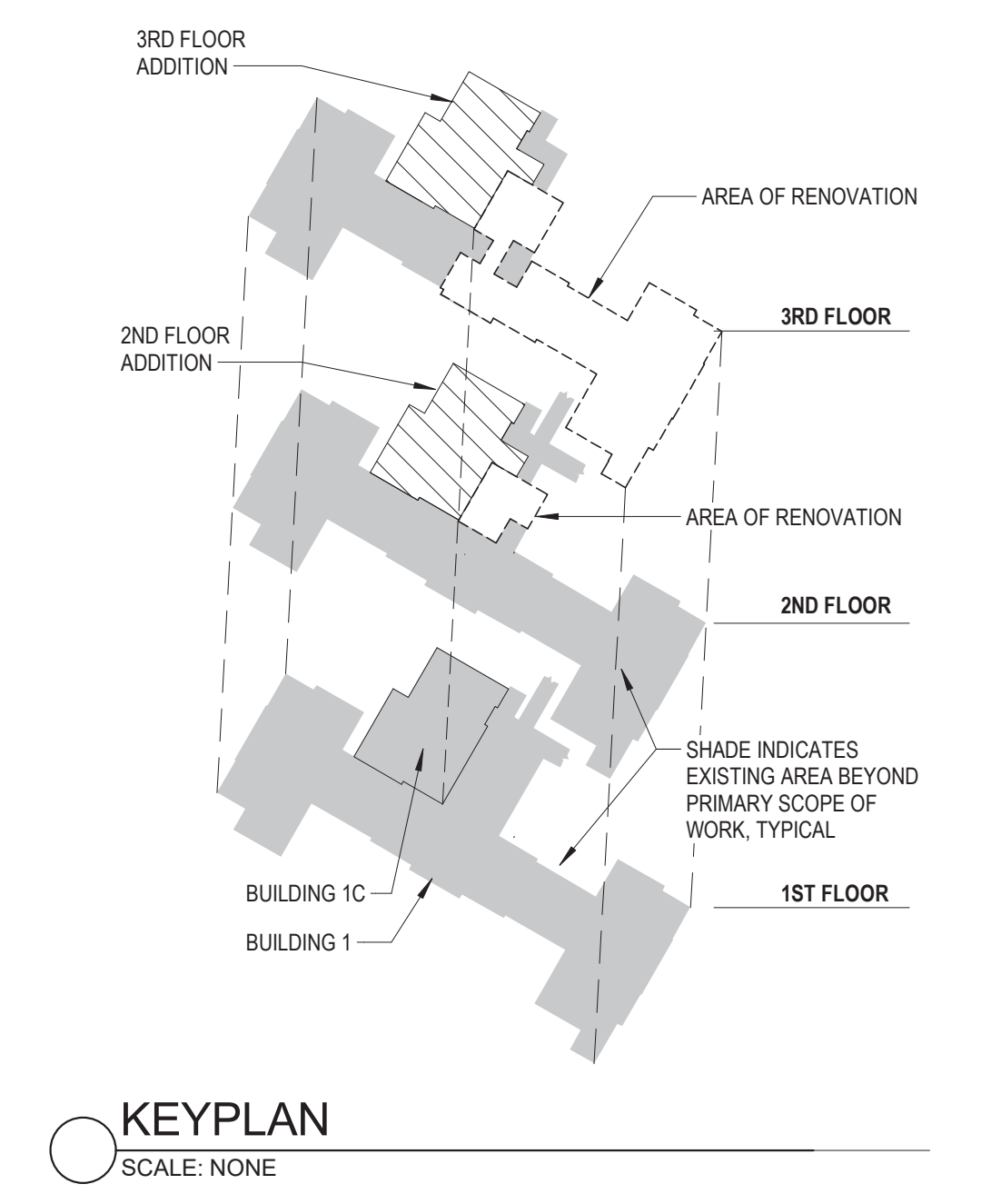
EXISTING AIR HANDLING UNIT #A1.1 AND RETURN FAN #F.5 SHALL REMAIN. EXISTING DUCTWORK, PIPING AND CONTROLS SERVING AHU SHALL REMAIN AS IS. DUCTWORK UP IN SHAFT SHALL REMAIN AS IS. TEMPORARY AHU SHALL BE DELETED.



**TEMPORARY AHU**

PROVIDE TEMPORARY AHU SIZED AT 10,000 CFM. CHILLED WATER COOLING VAV OPERATION AND FINAL FILTRATION. PROVIDE TRANSFORMER AS REQUIRED TO UTILIZE 208V/3P POWER FROM BUILDING. PROVIDE ALL FLEXIBLE DUCTING AND 3" PIPING FOR CONNECTION INTO BUILDING. UTILIZE EXISTING AREAWAY FOR DUCT AND PIPING INTO BUILDING. CONTRACTOR MAY PROVIDE PACKAGE COOLING UNIT AND SHALL COORDINATE ADDITIONAL POWER REQUIREMENTS WITH ELECTRICAL CONTRACTOR.

**1 HVAC DEMOLITION - BASEMENT**  
 SCALE: 1/8" = 1'-0"  
 0 2 4 8 16 24 32 1/8" = 1'-0"



FULLY SPRINKLERED

|                              |  |  |                |  |  |                                |  |                                  |
|------------------------------|--|--|----------------|--|--|--------------------------------|--|----------------------------------|
| Revisions: _____ Date: _____ | <b>CONSULTANT</b><br>Consultant:<br>CMTA CONSULTING ENGINEERS, INC.<br>10411 MEETING STREET<br>PROSPECT, KY 40059<br>(502)326-3085 | <b>ARCHITECT/ENGINEER OF RECORD</b><br>A/E:<br>GUIDON DESIGN INC.<br>1221 N PENNSYLVANIA STREET<br>INDIANAPOLIS, IN 46202<br>(502)326-3085 | STAMP<br>      | Office of Construction and Facilities Management<br>VA U.S. Department of Veterans Affairs | Drawing Title<br><b>HVAC DEMOLITION - BASEMENT</b> | Phase<br><b>BID DOCUMENTS</b>  | Project Title<br><b>VA WICHITA - MED/SURG BEDS FOR PATIENT PRIVACY</b> | Project Number<br><b>589-701</b> |
|                              | Issue Date<br>05/22/2020   | Checked<br>_____   | Drawn<br>_____ | Building Number<br><b>1 &amp; 1C</b>   | Location<br><b>WICHITA, KANSAS</b>                 | Drawing Number<br><b>MD101</b> |  |                                  |

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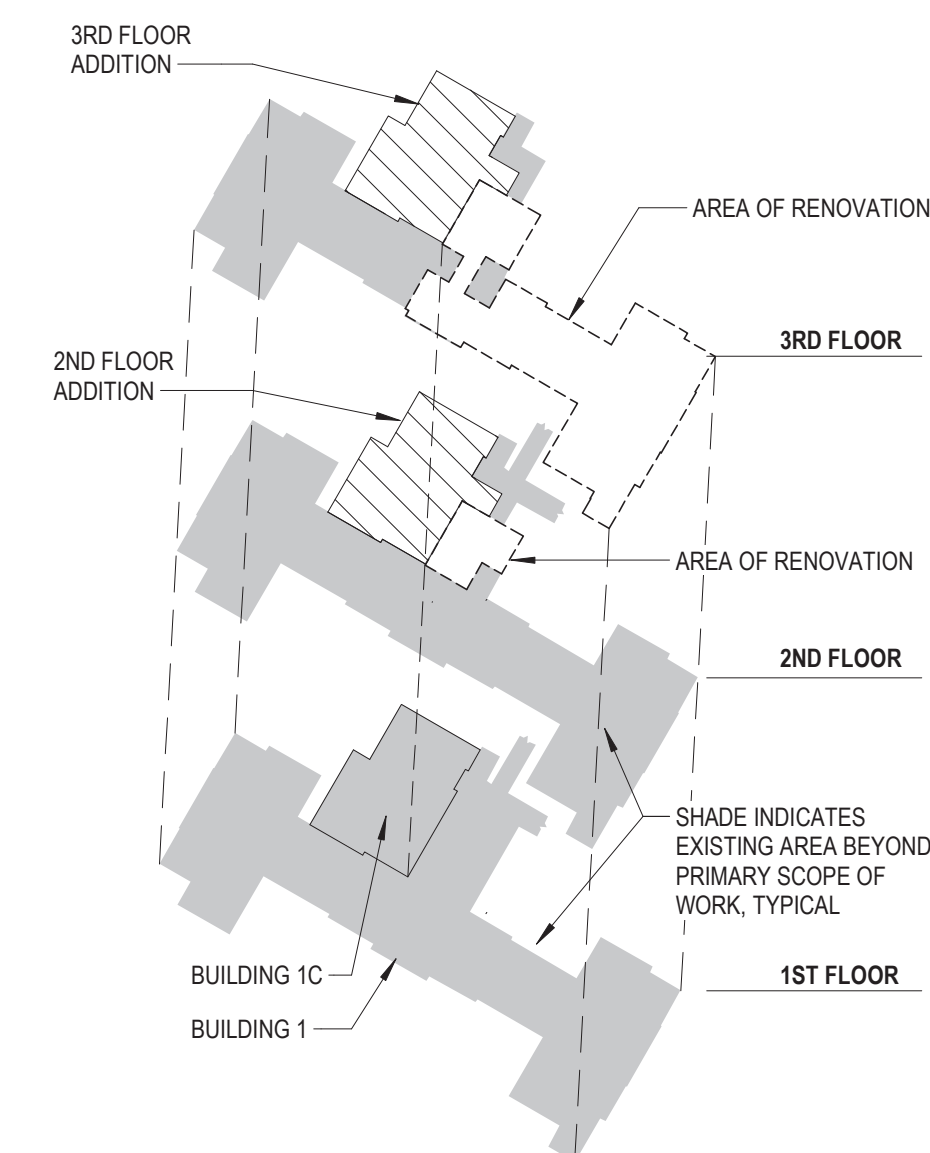
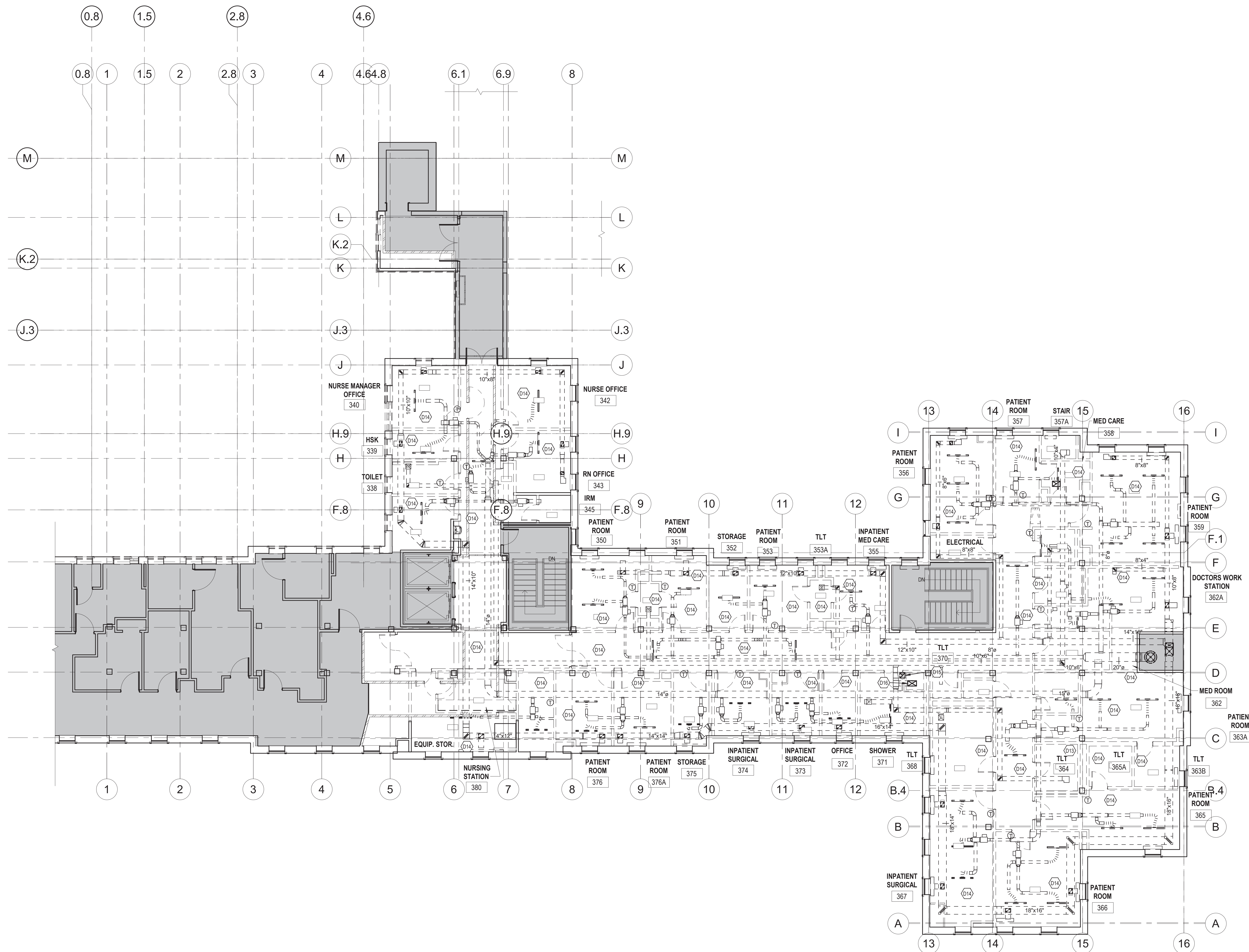




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| TAGGED NOTES |  |
|--------------|--|
| D13          | REMOVE EXISTING SUPPLY AND RETURN DUCT IN CHASE INCLUDING DUCT TAKEOFFS SERVING THE SECOND FLOOR INCLUDING FIRE DAMPERS AT CHASE WALL.   |
| D14          | REMOVE ALL TERMINAL UNITS, CONTROLS, GRILLES, DIFFUSERS, SUPPLY, RETURN AND EXHAUST DUCTWORK COMPLETE. REMOVE ALL HW SUPPLY AND RETURN PIPING COMPLETE BACK TO POINT INDICATED. REMOVALS INCLUDE ALL HANGERS. REMOVE ALL EXISTING FAN COIL UNITS AND CAP PIPING BELOW FLOOR. |
| D15          | EXISTING 12"x12" EXHAUST DUCTWORK UP FROM SECOND FLOOR TO BE REMOVED TO ABOVE SECOND FLOOR CEILING.  |
| D16          | REMOVE EXISTING 12"x12" EXHAUST DUCT UP TO ATTIC AND CAP AT MAIN.  |



**HVAC DEMOLITION - THIRD FLOOR**  
 SCALE: 1/8" = 1'-0"  
 0 2' 4' 8' 16' 24' 32'

**KEYPLAN**  
 SCALE: NONE

FULLY SPRINKLERED

| Revisions: | Date: |
|------------|-------|
|            |       |
|            |       |
|            |       |
|            |       |

**CONSULTANT**  
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 10411 MEETING STREET  
 PROSPECT, KY 40059  
 (502)326-3085

**ARCHITECT/ENGINEER OF RECORD**  
 A/E:  
 GUIDON DESIGN INC.  
 1221 N PENNSYLVANIA STREET  
 INDIANAPOLIS, IN 46202  
 (502)326-3085

**STAMP**

**Office of Construction and Facilities Management**  
 VA U.S. Department of Veterans Affairs

Drawing Title  
**HVAC DEMOLITION - THIRD FLOOR**  
 Approved:

Phase  
**BID DOCUMENTS**

Project Title  
**VA WICHITA - MED/SURG BEDS FOR PATIENT PRIVACY**  
 Location  
**WICHITA, KANSAS**  
 Issue Date  
 05/22/2020

Project Number  
 589-701  
 Building Number  
 1 & 1C  
 Drawing Number  
**MD104**

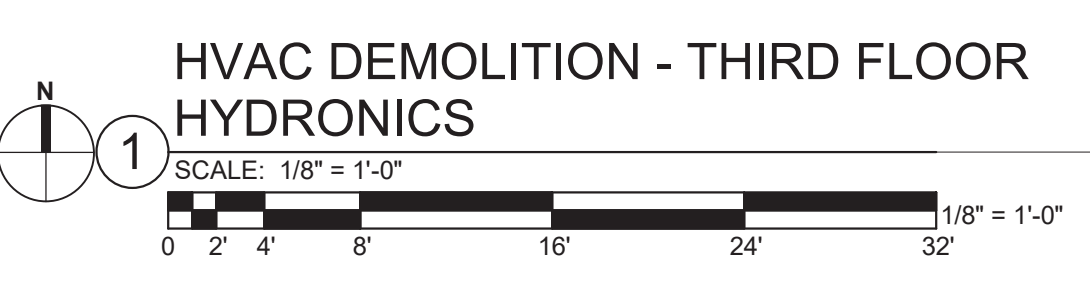
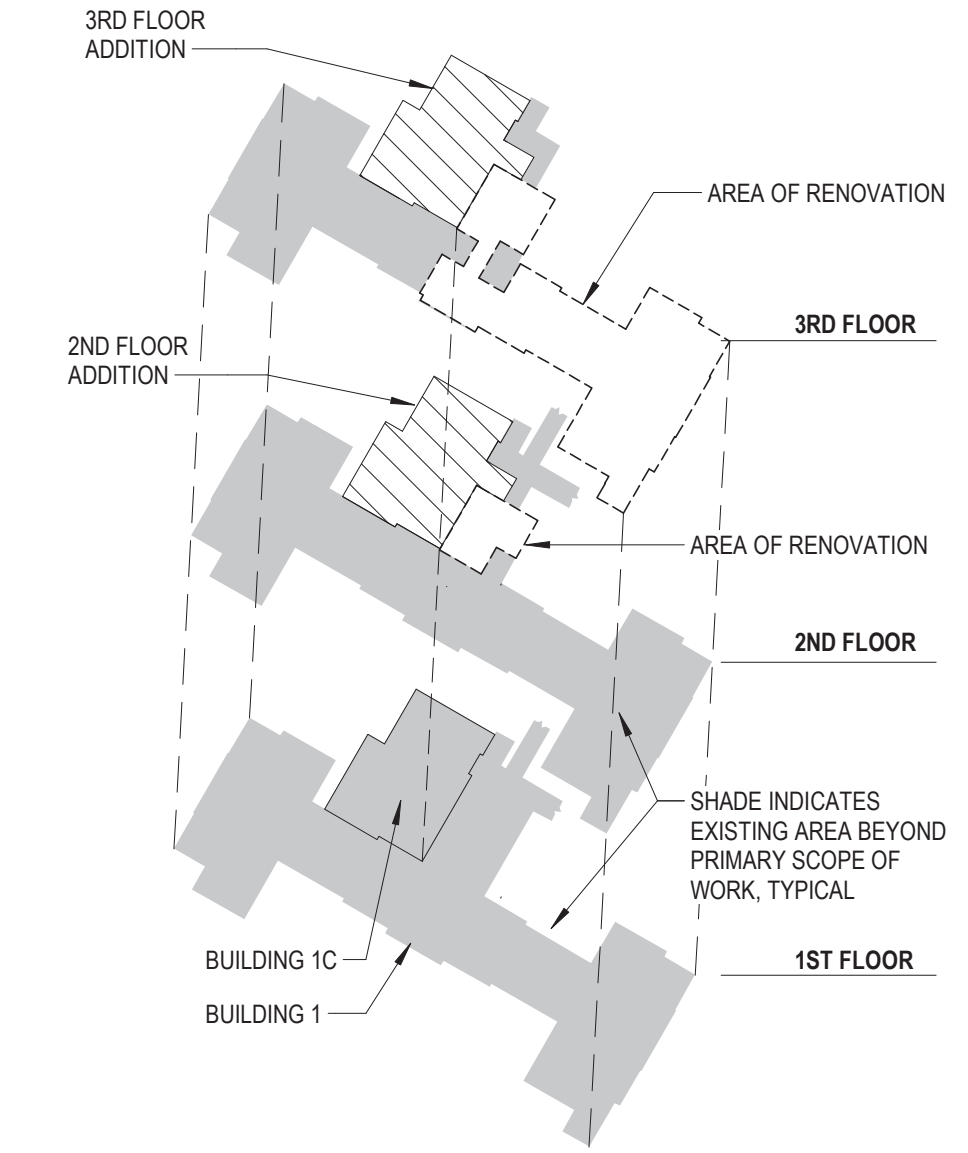
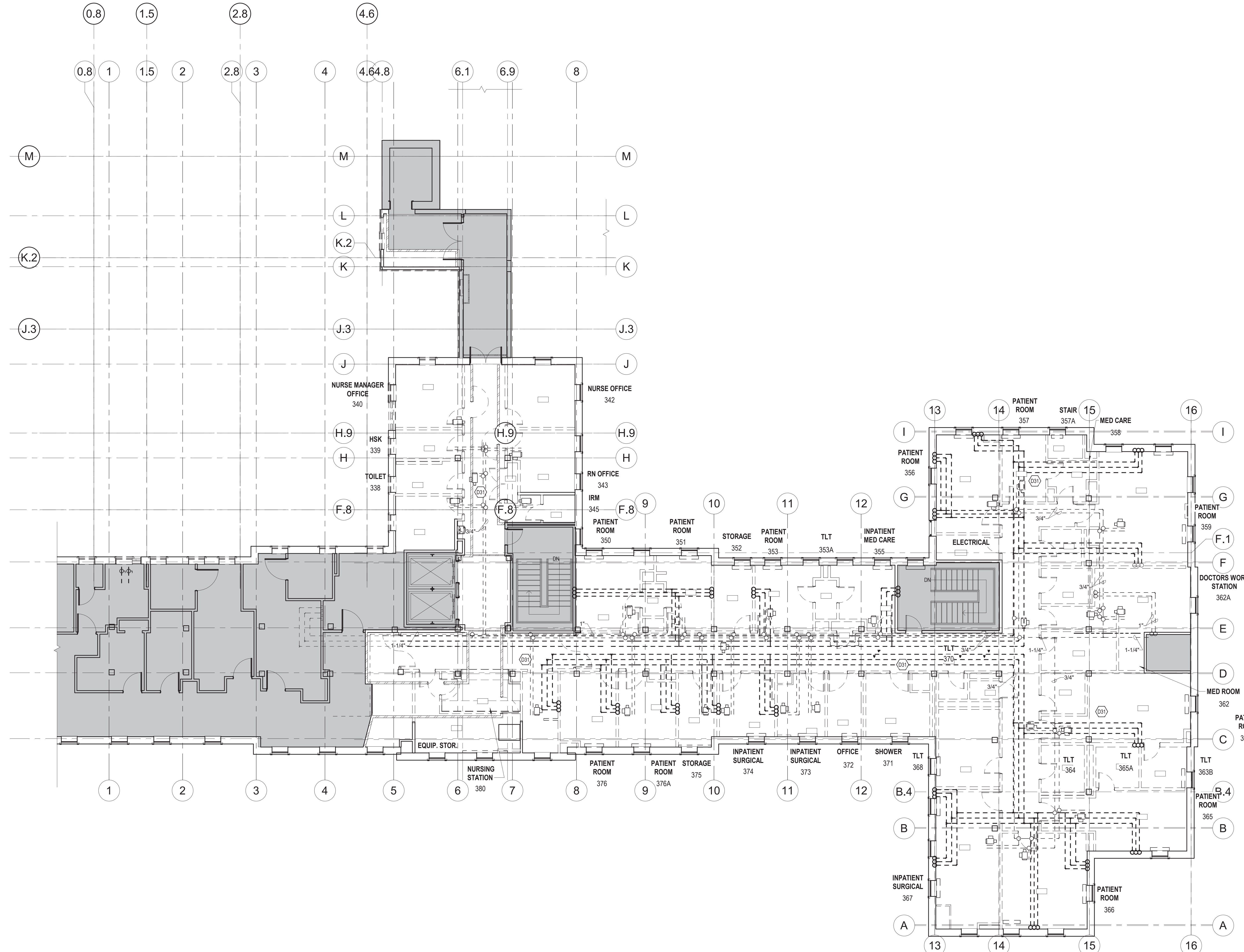
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**TAGGED NOTES**  
 031 REMOVE ALL EXISTING HEATING WATER PIPING INDICATED BY DASHED LINES.



|  |  |  |  |           |  |   |                               |   |  |       |                                |
|--|--|--|--|-----------|--|---|-------------------------------|---|--|-------|--------------------------------|
| <b>CONSULTANT</b><br>Consultant:<br>CMTA CONSULTING ENGINEERS, INC.<br>10411 MEETING STREET<br>PROSPECT, KY 40059<br>(502)326-3085 |  | <b>ARCHITECT/ENGINEER OF RECORD</b><br>A/E:<br>GUIDON DESIGN INC.<br>1221 N PENNSYLVANIA STREET<br>INDIANAPOLIS, IN 46202<br>(502)326-3085 |  | STAMP<br> | Office of<br>Construction<br>and Facilities<br>Management<br>VA U.S. Department<br>of Veterans Affairs | Drawing Title<br><b>HVAC DEMOLITION - THIRD FLOOR<br/>                 HYDRONICS</b><br>Approved: | Phase<br><b>BID DOCUMENTS</b> | Project Title<br><b>VA WICHITA - MED/SURG BEDS<br/>                 FOR PATIENT PRIVACY</b> | Project Number<br>589-701<br>Building Number<br>1 & 1C |       |                                |
| Revisions:   |  |  |  |           |  | Location<br><b>WICHITA, KANSAS</b>  |                               | Issue Date<br>05/22/2020  | Checked  | Drawn | Drawing Number<br><b>MD203</b> |

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