

Addendum No. 2
August 17, 2021

Project: DGR Engineering
Lot 4, Block 19 Dawley Farm Village Addition
2932

Architect: Architecture Incorporated

Letting: August 19, 2021
2:00 PM
Hoogendoorn Construction Office via Sealed Envelope or electronically (see Invitation to Bid for further details)

Scope of this Addendum:

To all bidders and all others to whom drawings and specifications have been issued by Architecture Incorporated, this Addendum forms a part of the Contract Documents. Acknowledge receipt of this addendum by listing its number and date in the bidder's Form of Proposal. Failure to do so may subject bidder to disqualification. This addendum modifies the drawings and specifications as follows:

GENERAL ITEMS:

1) SPECIFICATION SECTION – 072726 FLUID-APPLIED WEATHER BARRIERS

- a) CLARIFICATION: Provide fluid-applied weather barrier at all locations noted 'BUILDING WRAP'.

2) SPECIFICATION SECTION – 095426 SUSPENDED WOOD CEILINGS

- a) PART 2, 2.2 A; Provide the following in lieu of specification, omit custom sizing:
 - i) Woodworks Grille Item number 7094BO:
 - (1) slat width 1"
 - (2) slat height 2-1/4"
 - (3) 4-slats per panel
 - (4) slat spacing edge to edge 2"
 - (5) overall height including the slat height and backer thickness 2-3/4"

3) SPECIFICATION SECTION – 108213 ROOFTOP EQUIPMENT SCREENS

- a) Provide rooftop equipment screens as specified at locations noted 'Mechanical Screen' on exterior elevations.
 - i) Verify final equipment sizing and clearance requirements with mechanical contractor.

4) DRAWING 4.10 – FIRST FLOOR PLAN

- a) At WORKROOM 103 – Casework on demising wall between RECEPTION 102 and WORKROOM 103, verify clearances required for electrical panel B ahead of casework installation adjust to the northeast as required for clearance.
- b) Borrow lite locations (See SHEET 5.11 ALUMINUM FRAME ELEVATIONS for dimensions):
 - i) Borrowed Lite Type 1: 171 – ADMIN (qty. 1)
 - ii) Borrowed Lite Type 2: 136 – CONF (qty. 1)

5) DRAWING 5.10 – EXTERIOR ELEVATIONS

- a) Reference revised exterior elevations for ACM Wall Panel joint locations.
- b) Reference Specification Section 108213 Rooftop Equipment Screens for locations noted ‘Mechanical Screen’ on elevations.

6) DRAWING 5.40 / 5.41 – SECTION DETAILS

- a) Provide 1 ½” continuous rigid insulation on the outside of the glass mat gypsum sheathing at the high roof overhang condition show in details 1/5.40, 1/5.41 & 4/5.41.
 - i) Provide z-furring as necessary for installation of ACM wall / soffit panels.

7) DRAWING 6.10 – REFLECTED CEILING PANEL

- a) CLARIFICATION: ACM Wall Panels will be installed at horizontal soffits in the following locations:
 - i) Entrance canopy location noted ‘ACM PANEL SOFFIT’ on reflected ceiling plan.
 - ii) High roof overhangs as noted ‘Prefinished metal-faced composite wall panel’ on details 1/5.40, 1 & 4/5.41.
 - iii) Head of window condition as noted ‘Prefinished metal-faced composite wall panel’ on detail 2/5.41.

GENERAL ARCHITECTURAL APPROVALS:

The following material or equipment furnished by the manufacturers listed, may be substituted as equivalent providing that each item, material, and piece of equipment conforms to the design and requirement of the specifications.

| <u>SECTION</u> | <u>ITEM</u> | <u>MANUFACTURER</u> |
|----------------|---|----------------------------|
| 042000 | Unit Masonry Assemblies – Flexible Flashing | York – York 304 |
| 083613 | Sectional Overhead Doors | Midland Garage Door MFG CO |

MECHANICAL DRAWING ITEMS:

Refer to attached drawings, dated August 16, 2021, for further information regarding changes, unless noted otherwise.

- 1) DRAWING 8.10 – LEGENDS & DETAILS
 - a) Revise ADA FIXED & SLIDING SHOWER HEAD DETAIL.
- 2) DRAWING 8.11 – SCHEDULES & DETAILS
 - a) VAV TERMINAL SCHEDULE – Remove VAV-106 from schedule.
 - b) FAN POWERED VAV TERMINAL SCHEDULE – Add FP-106 to schedule.
- 3) DRAWING 8.20 – UNDERGROUND PLAN – PLUMBING
 - a) Revise W & DS routing in several locations to provide increased clearance from nearby parallel footings.
 - b) Revise keynotes for domestic water and fire protection piping coming into the building to emphasize the extensive coordination required between the plumber and site utility contractor regarding connection location, extent of work by each party, etc.
- 4) DRAWING 8.21 – FIRST FLOOR PLAN – PLUMBING & HEATING
 - a) Revise the location of the CW & HW piping for SH-1 in “Shower 163”.
 - b) Remove RCP’s in “Conf 106”. Revise piping connections to accommodate new FP-106.
- 5) DRAWING 8.30 – FIRST FLOOR PLAN – VENTILATION & A/C
 - a) Change VAV-106 to FP-106. Provide (3) G7 linear slot diffusers in lieu of D3 diffusers.

SUBSTITUTIONS AND PRODUCT OPTIONS

The following material or equipment furnished by the manufacturers listed may be substituted as equal, providing that each item, material and piece of equipment conforms to the design and requirements of the Drawings and Project Manual.

| <u>SECTION</u> | <u>ITEM</u> | <u>MANUFACTURER</u> |
|----------------|----------------------------------|-------------------------|
| 220400 | Water Heaters | Bradford White Camus |
| 220600 | Cabinet Unit Heaters | Turbonics |
| 220600 | Hot Water Radiant Ceiling Panels | Price |
| 220600 | Pumps | Pentair Aurora |

ELECTRICAL DRAWING ITEMS:

1) DRAWING 9.10 – SITE PLAN – ELECTRICAL

a) See attached updated electrical site plan background drawing. No changes electrically.

2) DRAWING 9.20 – FLOOR PLAN – LIGHTING

a) In reference to Lobby 101, lighting fixtures shall be compatible with the Armstrong Wood Works Grille ceiling system.

3) DRAWING 9.21/9.32 – FLOOR PLAN – POWER & SIGNAL & SCHEDULES

a) In reference to Conference Room 106, add electrical connections for added fan-powered VAV FP-16, 1/2HP, 120V, fed from 20A/1P circuit breaker in Panel B. Provide local disconnecting means, control by mechanical contractor.

SUBSTITUTIONS AND PRODUCT OPTIONS - ELECTRICAL

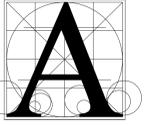
The following material or equipment furnished by the manufacturers listed may be substituted as equal, providing that each item, material and piece of equipment conforms to the design and requirements of the Drawings and Project Manual.

| <u>SECTION</u> | <u>ITEM</u> | <u>MANUFACTURER</u> |
|----------------|--------------|---------------------|
| 265119 | LED Lighting | |
| | Type C/CE/C1 | Gotham |
| | Type G | NovaFlex |
| | Type Y | Camman |
| | Type F/FE | Pinnacle |

END OF ADDENDUM

GENERAL NOTES - EXTERIOR ELEVATIONS

A. GENERAL CONTRACTOR SHALL VERIFY ALL EXISTING CONDITIONS AND DIMENSIONS AT THE JOB SITE. REPORT DISCREPANCIES TO THE ARCHITECT.



Architecture Incorporated

415 South Main Avenue
P.O. Box 2140
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Phone: (605) 339-1711

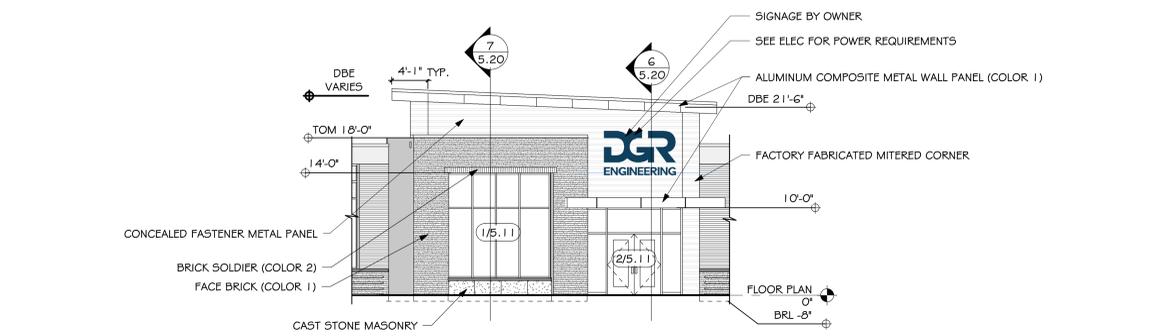
815 St Joseph Street, Suite 203
P.O. Box 8047
Rapid City, South Dakota 57701
Phone: (605) 721-1158



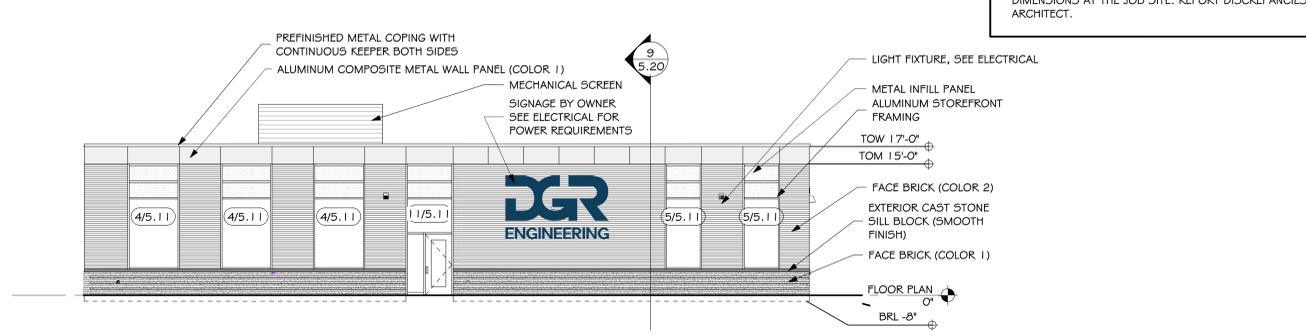
Project: DGR ENGINEERING - SIOUX FALLS OFFICE
 sheet contents: EXTERIOR ELEVATIONS

| | | |
|----------|---------------|-------------|
| number | 0329.2932.21 | |
| date | JULY 30, 2021 | |
| revision | | |
| drawn | CJM | |
| checked | ADE | |
| NO. | DATE | DESCRIPTION |
| | | |

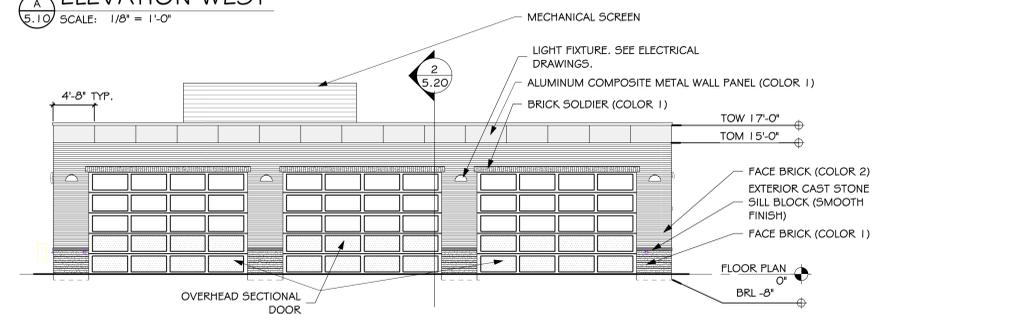
5.10



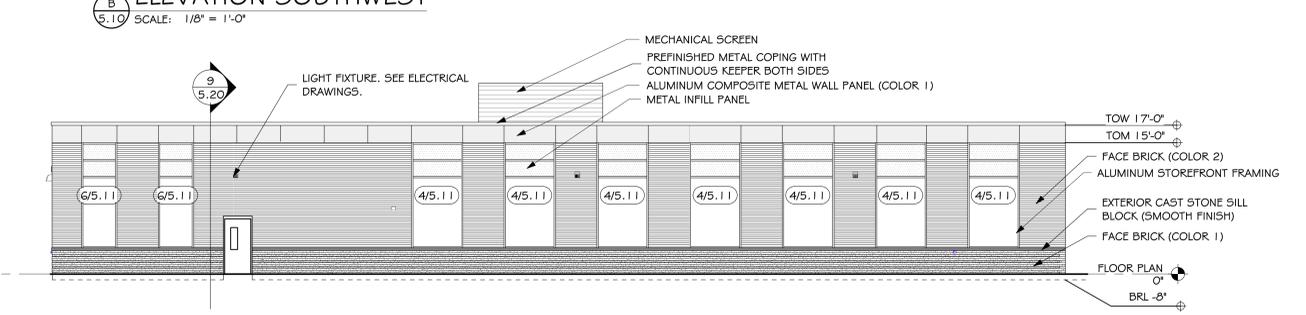
A ELEVATION WEST
SCALE: 1/8" = 1'-0"



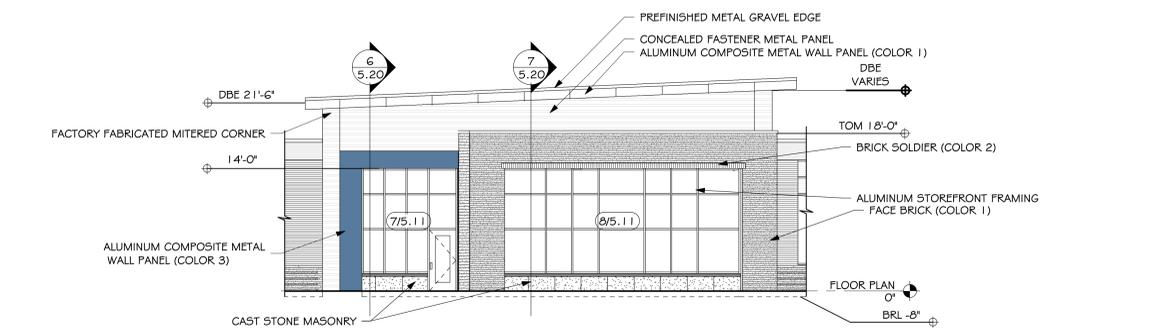
B ELEVATION SOUTHWEST
SCALE: 1/8" = 1'-0"



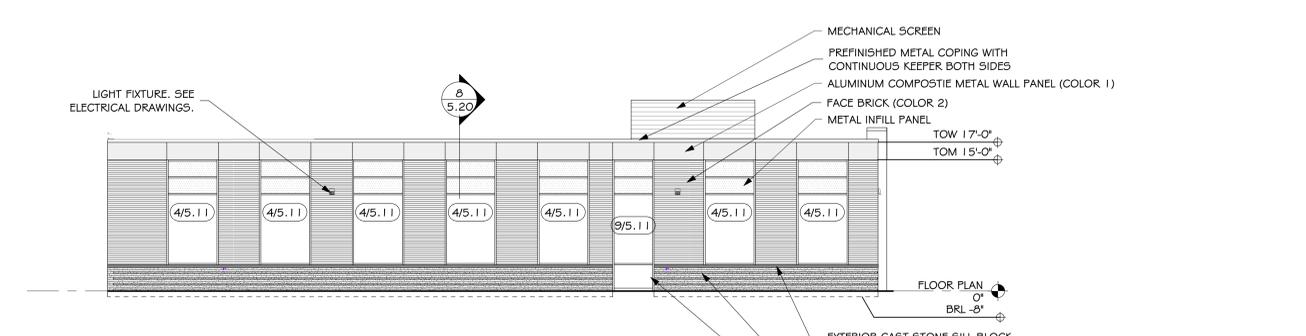
C ELEVATION SOUTH
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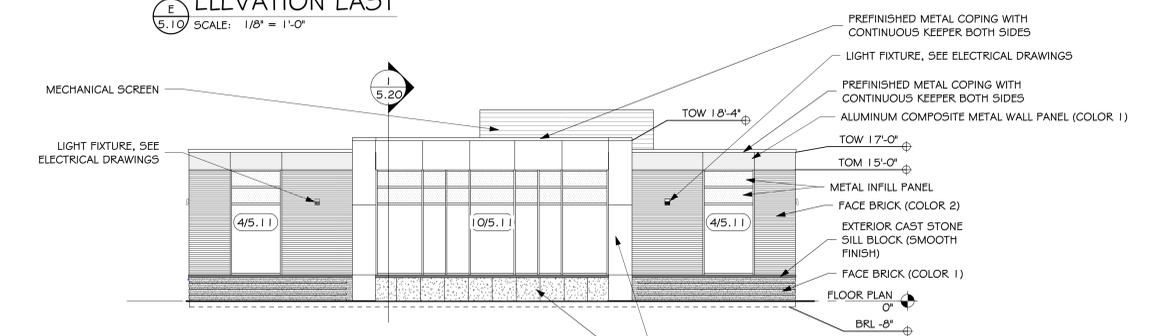
D ELEVATION SOUTHEAST
SCALE: 1/8" = 1'-0"



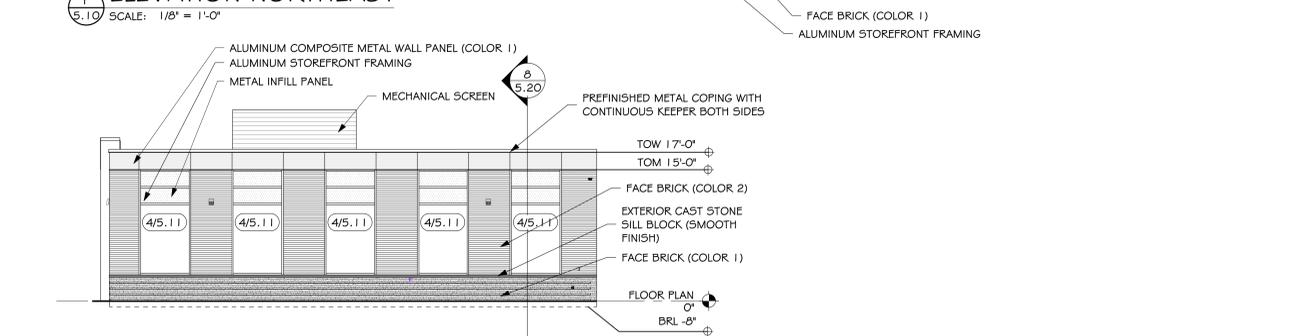
E ELEVATION EAST
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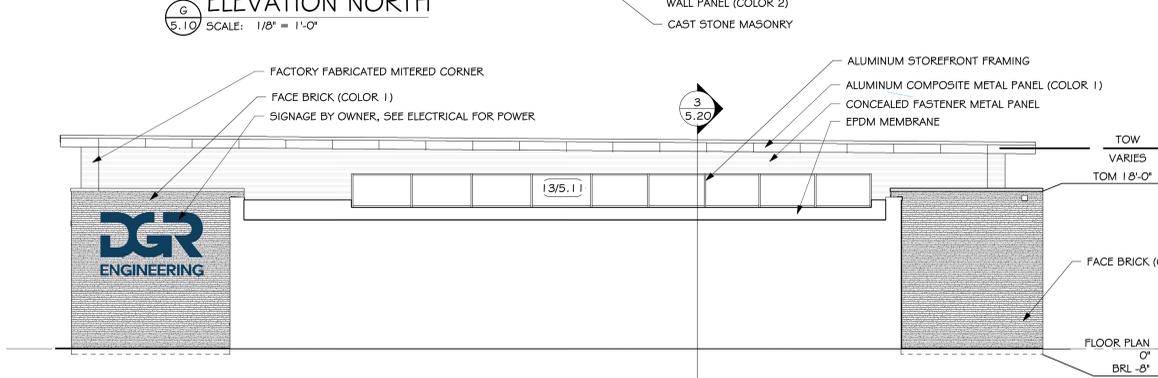
F ELEVATION NORTHEAST
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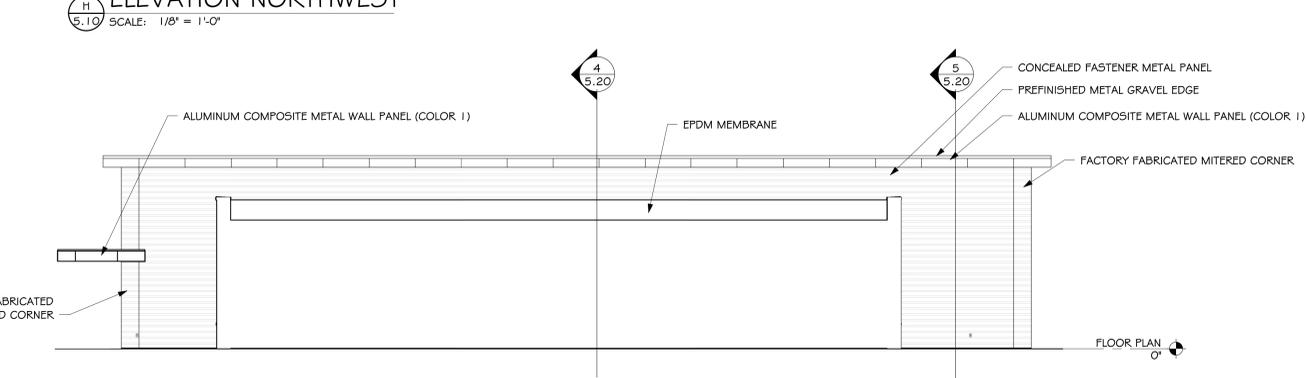
G ELEVATION NORTH
SCALE: 1/8" = 1'-0"



H ELEVATION NORTHWEST
SCALE: 1/8" = 1'-0"

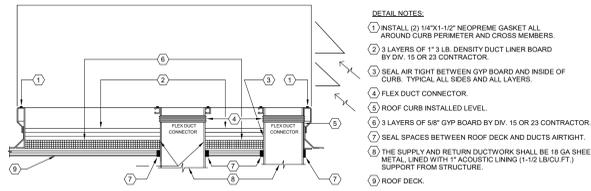


J ELEVATION
SCALE: 1/8" = 1'-0"



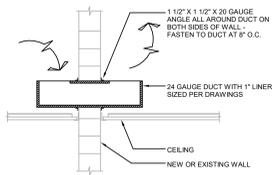
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8/17/2021 8:53:02 AM



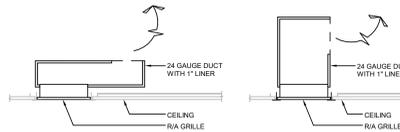
RTU SOUND ISOLATION DETAIL

NO SCALE



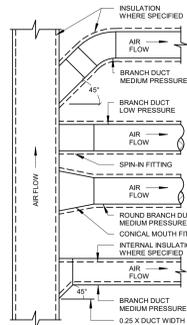
TRANSFER DUCT DETAIL

NO SCALE



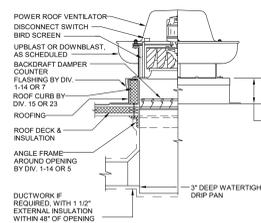
RETURN BOOT DETAIL

NO SCALE



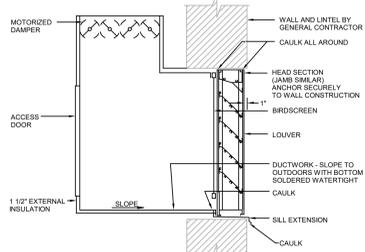
DUCT TAKE-OFF & CONNECTION

NO SCALE



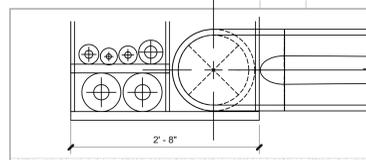
POWER ROOF VENTILATOR DETAIL

NO SCALE



INTAKE AIR LOUVER DETAIL

NO SCALE



SOFFIT DUCTWORK & PIPING DETAIL

NO SCALE

ROOFTOP UNIT SCHEDULE

| UNIT NO. | MANUF. | MODEL NO. | SUPPLY FAN | | | | | | EXHAUST FAN | | | | | | HEATING COIL CAPACITY | | | | | | COOLING COIL | | | | | | FILTER | OPFR | REMARKS | | | | | | | | | | |
|----------|--------|-------------------|------------|-----|------|-----|------|------|-------------|------|-----|------|-----|-----------|-----------------------|--------|-----|-----|------|-----|--------------|-----|------------|-------------|-------|--------|--------|------|---------|-----|-------|---------|-----|---------|-----|-----|----|------|-----------------|
| | | | CFM | ESP | TSP | MHP | BHP | CFM | ESP | TSP | MHP | BHP | MBH | EAT | LAT | FV | APD | EER | IEER | AMR | ELEC | PH | MCA | MCCP | TYPE | MAX FV | | | | APD | THICK | WT(LBS) | | | | | | | |
| RTU-1 | AARON | RN-020-0-KB09-E-L | 8000 | 2.5 | 4.66 | 15 | 8.62 | 8000 | 0.5 | 1.28 | 7.5 | 5.51 | 298 | 58.8/55.9 | 89.6/66.2 | 1099.7 | --- | 180 | 150 | 17 | 5 | 222 | 77.5/63.84 | 54.07/53.83 | 402.8 | --- | 13.2 | 21.5 | 95 | 208 | 3 | 148 | 175 | MERV 13 | 350 | --- | 2" | 3100 | 1,2,3,4,5,6,7,8 |
| RTU-2 | AARON | RN-020-0-KB09-E-L | 8000 | 2.5 | 4.66 | 15 | 8.62 | 8000 | 0.5 | 1.28 | 7.5 | 5.51 | 298 | 58.8/55.9 | 89.6/66.2 | 1099.7 | --- | 180 | 150 | 17 | 5 | 222 | 77.5/63.84 | 54.07/53.83 | 402.8 | --- | 13.2 | 21.5 | 95 | 208 | 3 | 148 | 175 | MERV 13 | 350 | --- | 2" | 3100 | 1,2,3,4,5,6,7,8 |

- REMARKS:
- HEATING AND COOLING CAPACITIES ARE BASED ON 75% WATER/25% PROPYLENE GLYCOL.
 - ESP INCLUDES AN ALLOWANCE 0.5" FOR DIRTY FILTERS.
 - PROVIDE SINGLE POINT POWER CONNECTION AND ELECTRICAL DISCONNECT. COORDINATE SCGR RATING WITH ELECTRICAL CONTRACTOR.
 - PROVIDE 100% ECONOMIZER WITH MODULATING POWERED EXHAUST.
 - PROVIDE 2 SCROLL COMPRESSORS WITH ONE COMPRESSOR BEING A VARIABLE SPEED SCROLL COMPRESSOR.
 - FANS CONTROLLED BY VFD.
 - PROVIDE CONVENIENCE OUTLET WIRED SEPARATELY FROM THE UNIT.
 - PROVIDE STAINLESS STEEL DRAIN PAN.

FAN POWERED VAV TERMINAL SCHEDULE

| UNIT | MANUF. | MODEL | INLET | CFM | MIN | TERM. | EXT. | RAD | DISCH | MOTOR | MOTOR | HEATING COIL | | | | | | REMARKS | | | | | | | |
|---------|--------|-------|-------|------|-----|-------|------|-----|-------|-------|-------|--------------|-----|-----|------|-----|-----|---------|-----|----|---|-----|-----|-------------|--|
| NO. | | | SIZE | | | | | | | | | EAT | MBH | GPM | WPD | EWT | LWT | | | | | | | | |
| FP-100 | PRICE | FDV | 10 | 900 | 340 | 0.25 | 0.5 | 29 | 28 | 1/2 | 120 | 1 | 15 | 64 | 28.0 | 2.0 | 5 | 180 | 150 | 17 | 5 | 180 | 150 | 1.2,3,4,5,6 | |
| FP-140A | PRICE | FDV | 12 | 1400 | 420 | 0.25 | 0.5 | 33 | 34 | 1/2 | 120 | 1 | 15 | 64 | 30.1 | 2.1 | 5 | 180 | 150 | 17 | 5 | 180 | 150 | 1,2,3,4,5,6 | |
| FP-140B | PRICE | FDV | 12 | 1400 | 420 | 0.25 | 0.5 | 33 | 34 | 1/2 | 120 | 1 | 15 | 64 | 30.1 | 2.1 | 5 | 180 | 150 | 17 | 5 | 180 | 150 | 1,2,3,4,5,6 | |
| FP-150 | PRICE | FDV | 12 | 1200 | 360 | 0.25 | 0.5 | 33 | 34 | 1/2 | 120 | 1 | 15 | 64 | 30.5 | 2.1 | 5 | 180 | 150 | 17 | 5 | 180 | 150 | 1,2,3,4,5,6 | |

- REMARKS:
- SOUND DATA SHALL BE TAKEN FROM ARI STANDARDS 880 (LATEST PUBLISHED DATA @ 1.5" DELTA P.)
 - NC RATING INCLUDE A RETURN INLET ATTENUATOR. PROVIDE RETURN INLET ATTENUATOR.
 - EXT. S.P. INCLUDES A COIL APD.
 - COIL CAPACITIES ARE BASED ON 75% WATER/25% PROPYLENE GLYCOL.
 - PROVIDE ECM MOTOR. ELECTRICAL DISCONNECT BY ELECTRICAL CONTRACTOR.
 - SIZE FAN FOR 70% OF THE MAX CFM.

VAV TERMINAL SCHEDULE

| UNIT | MANUF. | MODEL NO. | INLET | CLG CFM | CLG CFM | HTG CFM | TERM | RAD | DISCH | HEATING COIL | | | | | | REMARKS | | | | | | | | | |
|----------|--------|-----------|-------|---------|---------|---------|------|-----|-------|--------------|------|-----|-----|-----|-----|---------|--|--|--|--|--|--|--|--|--|
| NO. | | | SIZE | MAX | MIN | MAX | S.P. | NC | NC | EAT | MBH | GPM | WPD | EWT | LWT | | | | | | | | | | |
| VAV-101 | PRICE | SDV | 6 | 300 | 90 | 130 | 0.5" | 20 | 21 | 55 | 8.9 | 0.6 | 5 | 180 | 150 | 1.2,3 | | | | | | | | | |
| VAV-102 | PRICE | SDV | 10 | 900 | 270 | 380 | 0.5" | 20 | 20 | 55 | 16.9 | 1.2 | 5 | 180 | 150 | 1,2,3 | | | | | | | | | |
| VAV-112 | PRICE | SDV | 8 | 390 | 120 | 130 | 0.5" | 24 | 25 | 55 | 8.9 | 0.6 | 5 | 180 | 150 | 1,2,3 | | | | | | | | | |
| VAV-114 | PRICE | SDV | 8 | 470 | 150 | 180 | 0.5" | 24 | 25 | 55 | 12.5 | 0.9 | 5 | 180 | 150 | 1,2,3 | | | | | | | | | |
| VAV-116 | PRICE | SDV | 6 | 335 | 110 | 130 | 0.5" | 20 | 21 | 55 | 8.9 | 0.6 | 5 | 180 | 150 | 1,2,3 | | | | | | | | | |
| VAV-119 | PRICE | SDV | 12 | 1215 | 370 | 370 | 0.5" | 25 | 26 | 55 | 16.6 | 1.1 | 5 | 180 | 150 | 1,2,3 | | | | | | | | | |
| VAV-122 | PRICE | SDV | 10 | 900 | 270 | 270 | 0.5" | 23 | 24 | 55 | 13.2 | 0.9 | 5 | 180 | 150 | 1,2,3 | | | | | | | | | |
| VAV-128 | PRICE | SDV | 8 | 525 | 160 | 160 | 0.5" | 24 | 25 | 55 | 4.9 | 0.5 | 5 | 180 | 150 | 1,2,3 | | | | | | | | | |
| VAV-129 | PRICE | SDV | 6 | 205 | 70 | 70 | 0.5" | 20 | 21 | 55 | 2.5 | 0.5 | 5 | 180 | 150 | 1,2,3 | | | | | | | | | |
| VAV-133 | PRICE | SDV | 6 | 250 | 80 | --- | 0.5" | 20 | 21 | 55 | --- | --- | --- | --- | --- | 4 | | | | | | | | | |
| VAV-135 | PRICE | SDV | 6 | 230 | 70 | 70 | 0.5" | 20 | 21 | 55 | 2.5 | 0.5 | 5 | 180 | 150 | 1,2,3 | | | | | | | | | |
| VAV-136 | PRICE | SDV | 6 | 285 | 30 | 30 | 0.5" | 20 | 21 | 55 | 2.3 | 0.5 | 5 | 180 | 150 | 1,2,3 | | | | | | | | | |
| VAV-139A | PRICE | SDV | 10 | 800 | 240 | 240 | 0.5" | 23 | 24 | 55 | 15.7 | 1.1 | 5 | 180 | 150 | 1,2,3 | | | | | | | | | |
| VAV-139B | PRICE | SDV | 10 | 800 | 240 | 240 | 0.5" | 23 | 24 | 55 | 16.0 | 1.1 | 5 | 180 | 150 | 1,2,3 | | | | | | | | | |
| VAV-151 | PRICE | SDV | 10 | 850 | 260 | 260 | 0.5" | 23 | 24 | 55 | 7.4 | 0.5 | 5 | 180 | 150 | 1,2,3 | | | | | | | | | |
| VAV-153 | PRICE | SDV | 12 | 1240 | 380 | 380 | 0.5" | 25 | 26 | 55 | 16.8 | 1.2 | 5 | 180 | 150 | 1,2,3 | | | | | | | | | |
| VAV-157 | PRICE | SDV | 10 | 930 | 280 | 280 | 0.5" | 23 | 24 | 55 | 12.1 | 0.8 | 5 | 180 | 150 | 1,2,3 | | | | | | | | | |
| VAV-168 | PRICE | SDV | 6 | 300 | 90 | 90 | 0.5" | 20 | 21 | 55 | 5.9 | 0.5 | 5 | 180 | 150 | 1,2,3 | | | | | | | | | |
| VAV-171 | PRICE | SDV | 8 | 395 | 120 | 120 | 0.5" | 24 | 25 | 55 | 7.3 | 0.5 | 5 | 180 | 150 | 1,2,3 | | | | | | | | | |
| VAV-180 | PRICE | SDV | 6 | 220 | 70 | 70 | 0.5" | 20 | 21 | 55 | 1.7 | 0.5 | 5 | 180 | 150 | 1,2,3 | | | | | | | | | |
| VAV-182 | PRICE | SDV | 6 | 250 | 80 | --- | 0.5" | 20 | 21 | 55 | --- | --- | --- | --- | --- | 4 | | | | | | | | | |

- REMARKS:
- SOUND DATA SHALL BE TAKEN FROM ARI STANDARDS 880 (LATEST PUBLISHED DATA @ 1.5" DELTA P.)
 - EXT. S.P. INCLUDES A COIL APD.
 - COIL CAPACITIES ARE BASED ON 75% WATER/25% PROPYLENE GLYCOL.
 - COOLING ONLY VAV.

FAN SCHEDULE

| FAN NO. | MANUF. | MODEL NO. | TYPE | CFM | S.P. | RPM | TIP SPEED | MOTOR HP | BHP | ELEC. VOLTS | PH | SONES | OPER WT. (LBS) | REMARKS |
|---------|-----------|-----------|------|------|------|------|-----------|----------|------|-------------|----|-------|----------------|---------|
| EF-1 | GREENHECK | G-095-VG | PRV | 475 | 0.3 | 1466 | --- | 1/8 | 0.09 | 115 | 1 | 8.5 | 30 | 1,2 |
| EF-2 | GREENHECK | G-080-VG | PRV | 250 | 0.35 | 1459 | --- | 1/10 | 0.04 | 115 | 1 | 6.8 | 30 | 1,2 |
| EF-3 | GREENHECK | G-140-VG | PRV | 1890 | 0.3 | 1180 | --- | 1/2 | 0.31 | 115 | 1 | 10.6 | 60 | 1,2 |
| EF-4 | GREENHECK | G-097-VG | PRV | 135 | 0.3 | 1041 | --- | 1/4 | 0.03 | 115 | 1 | 4.1 | 40 | 1,2 |

- REMARKS:
- PROVIDE ECM MOTOR, FAN SPEED CONTROLLER, INTEGRAL ELECTRICAL DISCONNECT.
 - PROVIDE INSULATED ROOF CURB AND BACKDRAFT DAMPER.

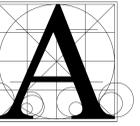
REGISTER GRILLE & DIFFUSER SCHEDULE

| SYMBOL | MANUF. | CONSTR | MODEL | MAX CFM | OVERALL SIZE | THROAT SIZE | NC | THROW | TOTAL PD (IN.W.G.) | FRAME | PATTERNS | REMARKS |
|--------|---------|--------|---------|---------|--------------|-------------|-----|-------|--------------------|---------------|-----------|---------|
| D1 | KRIEGER | S | PLQ | 270 | 24/24 | 8/8 | 16 | 11 | 0.07 | LAY-INSURFACE | 4-WAY | --- |
| D2 | KRIEGER | S | PLQ | 380 | 24/24 | 10/8 | 15 | 13 | 0.08 | LAY-INSURFACE | 4-WAY | --- |
| D3 | KRIEGER | S | 1400 | 575 | 24/24 | 12/8 | 30 | 20 | 0.10 | LAY-INSURFACE | 4-WAY | --- |
| G1 | KRIEGER | A | EGC5 | 1000 | 24/12 | 22/10 | 25 | --- | 0.08 | LAY-INSURFACE | 1/2" GRID | --- |
| G2 | KRIEGER | A | EGC5 | 1400 | 24/24 | 22/22 | 15 | --- | 0.03 | LAY-INSURFACE | 1/2" GRID | --- |
| G3 | KRIEGER | A | EGC5 | 250 | 12/12 | 10/10 | --- | --- | 0.03 | SURFACE | 1/2" GRID | --- |
| G4 | KRIEGER | A | 5885 | 270 | 16/8 | 14/8 | 17 | 30 | 0.05 | SURFACE | DD | 1 |
| G5 | KRIEGER | A | EGC5 | 2800 | 30/24 | 34/22 | 19 | --- | 0.05 | SURFACE | 1/2" GRID | --- |
| G6 | KRIEGER | S | PTBA-1" | 200 | 4/8 | --- | 23 | 14 | 0.07 | LAY-IN | 2-WAY | 3 |
| G7 | KRIEGER | S | PTBA-1" | 450 | 4/8 | --- | 31 | 35 | 0.09 | LAY-IN | 1-WAY | 4 |
| G8 | KRIEGER | A | 5885 | 150 | 12/8 | 10/6 | --- | 23 | 0.03 | SURFACE | DD | 1,2 |
| G9 | KRIEGER | A | EGC5 | 1400 | 48/10 | 46/8 | 18 | --- | 0.058 | SURFACE | 1/2" GRID | --- |

- REMARKS:
- PROVIDE ECM MOTOR, FAN SPEED CONTROLLER, INTEGRAL ELECTRICAL DISCONNECT.
 - PROVIDE INSULATED ROOF CURB AND BACKDRAFT DAMPER.

REGISTER GRILLE & DIFFUSER SCHEDULE

| SYMBOL | MANUF. | CONSTR | MODEL | MAX CFM | OVERALL SIZE | THROAT SIZE | NC | THROW | TOTAL PD (IN.W.G.) | FRAME | PATTERNS | REMARKS |
|--------|---------|--------|-------|---------|--------------|-------------|-----|-------|--------------------|---------------|-----------|---------|
| D1 | KRIEGER | S | PLQ | 270 | 24/24 | 8/8 | 16 | 11 | 0.07 | LAY-INSURFACE | 4-WAY | --- |
| D2 | KRIEGER | S | PLQ | 380 | 24/24 | 10/8 | 15 | 13 | 0.08 | LAY-INSURFACE | 4-WAY | --- |
| D3 | KRIEGER | S | 1400 | 575 | 24/24 | 12/8 | 30 | 20 | 0.10 | LAY-INSURFACE | 4-WAY | --- |
| G1 | KRIEGER | A | EGC5 | 1000 | 24/12 | 22/10 | 25 | --- | 0.08 | LAY-INSURFACE | 1/2" GRID | --- |
| G2 | KRIEGER | A | EGC5 | 1400 | 24/24 | 22/22 | 15 | --- | 0.03 | LAY-INSURFACE | 1/2" GRID | --- |
| G3 | KRIEGER | A | EGC5 | 250 | 12/12 | 10/10 | --- | --- | 0.03 | SURFACE | 1/2" GRID | --- |
| G4 | KRIEGER | A | 5885 | 270 | 16/8 | | | | | | | |



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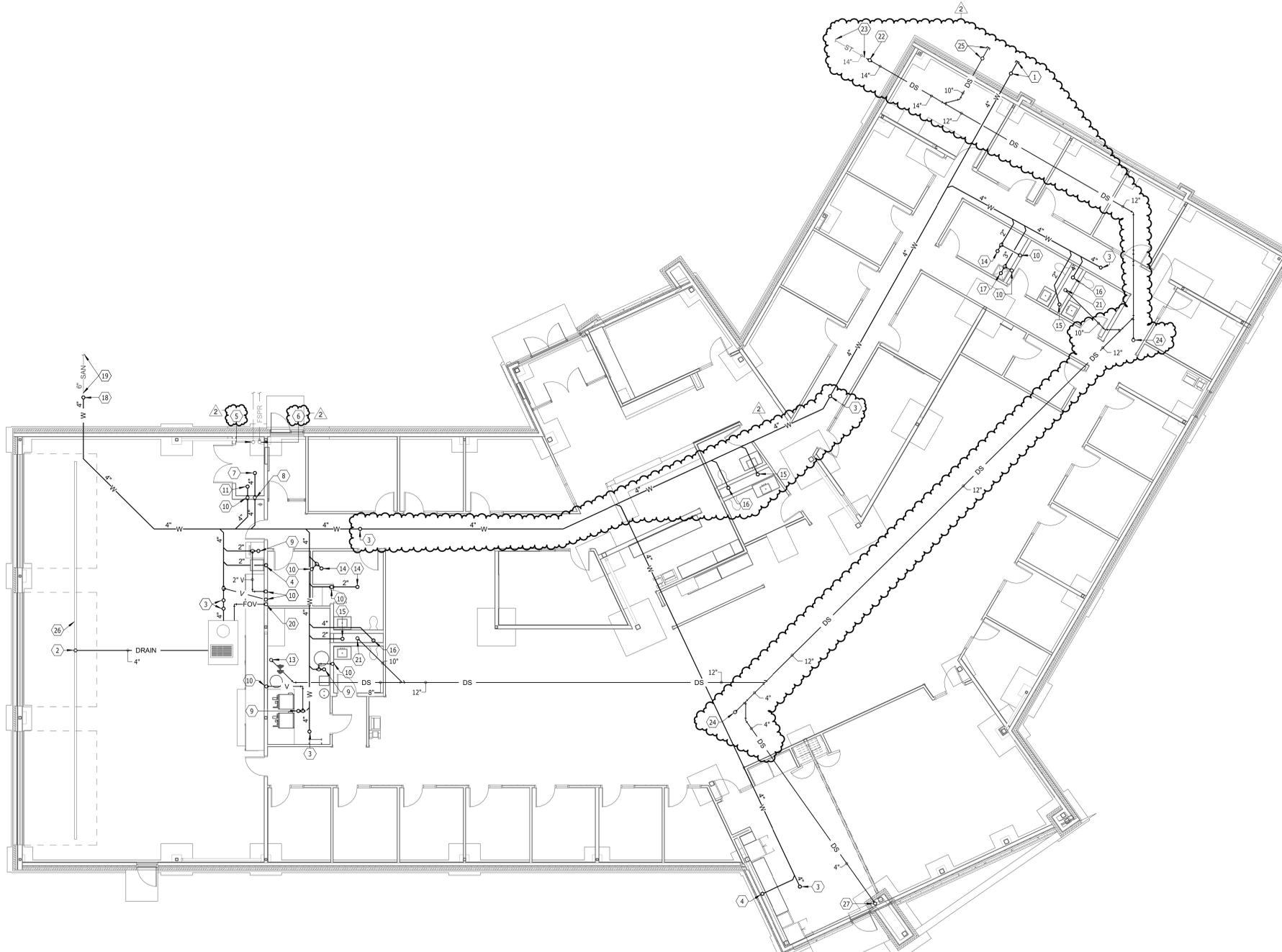
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GENERAL SHEET NOTES

- A. THE CEILING SPACE AVAILABLE REQUIRES COORDINATION WITH OTHER TRADES. THE CONTRACTORS SHALL PROVIDE ALL OFFSETS AND RELOCATE AS REQUIRED TO COORDINATE THE INSTALLATION OF ALL MATERIALS AND EQUIPMENT WITH OTHER TRADES.
- B. ON DEMO DRAWINGS, ITEMS SHOWN LIGHT ARE EXISTING TO REMAIN, ITEMS SHOWN BOLD ARE EXISTING TO BE REMOVED.
- C. ON NEW CONSTRUCTION DRAWINGS, ITEMS SHOWN LIGHT ARE EXISTING TO REMAIN, ITEMS SHOWN BOLD ARE NEW WORK.

PLUMBING NOTES

- 1 4" W UP TO GRADE CO. CAP & INSTALL WITH INVERT AT A MINIMUM 24" BELOW GRADE TO ACCOMMODATE POTENTIAL FUTURE EXPANSION. INSULATE SHALLOW EXTERIOR WASTE PIPING PER DETAIL.
- 2 4" DRAIN UP TO TD.
- 3 4" W UP TO CO.
- 4 2" W UP TO SK.
- 5 WATER SERVICE STUBBED TO BLIND FLANGE BY SITE UTILITY CONTRACTOR. SEE SITE UTILITY PLANS FOR CONTINUATION AND FURTHER DETAILS. COORDINATE WITH SITE UTILITY CONTRACTOR REGARDING EXACT CONNECTION LOCATION, EXTENT OF WORK, ETC. PRIOR TO WORK.
- 6 FIRE PROTECTION SERVICE STUBBED TO BLIND FLANGE BY SITE UTILITY CONTRACTOR. SEE SITE UTILITY PLANS FOR CONTINUATION AND FURTHER DETAILS. COORDINATE WITH SITE UTILITY CONTRACTOR REGARDING EXACT CONNECTION LOCATION, EXTENT OF WORK, ETC. PRIOR TO WORK.
- 7 4" W UP TO FSK.
- 8 4" V UP.
- 9 2" W UP TO FSK.
- 10 2" V UP.
- 11 4" W UP TO HD.
- 12 12" COMBINED DS/ODS UP.
- 13 8" COMBINED DS/ODS UP.
- 14 2" W UP TO FD.
- 15 2" W UP TO LAV.
- 16 4" W UP TO WC.
- 17 3" W UP TO MSK.
- 18 4" W UP TO GRADE CO.
- 19 CONNECT TO PIPING PROVIDED BY SITE UTILITY CONTRACTOR. SEE SITE UTILITY DRAWINGS FOR CONTINUATION. COORDINATE EXACT LOCATION AND INVERTS WITH EXISTING CONDITIONS AND SITE UTILITY CONTRACTOR. INSTALL WITH MINIMUM INVERT 5" BELOW GRADE AS THE PIPE EXITS THE BUILDING FOOTPRINT. AS APPLICABLE, COORDINATE INSULATION REQUIREMENTS FOR ANY SHALLOW EXTERIOR PIPING WITH SITE UTILITY CONTRACTOR.
- 20 2" FOV UP.
- 21 10" COMBINED DS/ODS UP.
- 22 4" DS UP TO GRADE CO.
- 23 CONNECT TO PIPING PROVIDED BY SITE UTILITY CONTRACTOR. SEE SITE UTILITY DRAWINGS FOR CONTINUATION. COORDINATE EXACT LOCATION AND INVERTS WITH EXISTING CONDITIONS AND SITE UTILITY CONTRACTOR.
- 24 4" DS UP TO CO.
- 25 4" DS UP TO GRADE CO. CAP 10" DS PIPING AT MAXIMUM DEPTH TO ACCOMMODATE POTENTIAL FUTURE ADDITION. INSULATE ANY SHALLOW EXTERIOR DS PIPING PER DETAIL.
- 26 TRENCH DRAIN, ZURN Z886-GFG WITH GALVANIZED DUCTILE IRON FRAME & SLOTTED GRADE - CLASS F OR EQUAL.
- 27 4" COMBINED DS/ODS UP.

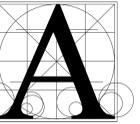


UNDERGROUND PLAN - PLUMBING
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DGR OFFICE
Project
UNDERGROUND PLAN - PLUMBING
sheet contents

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| number | 2932 | |
| date | 7-30-21 | |
| revision | | |
| drawn | TNS | |
| checked | Td | |
| NO. | DATE | DESCRIPTION |
| 1 | 6/1/21 | ADDENDUM #1 |
| 2 | 6/16/21 | ADDENDUM #2 |

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1 6/1/21 ADDENDUM #1

2 6/1/21 ADDENDUM #2

sheet contents

8.21

GENERAL SHEET NOTES

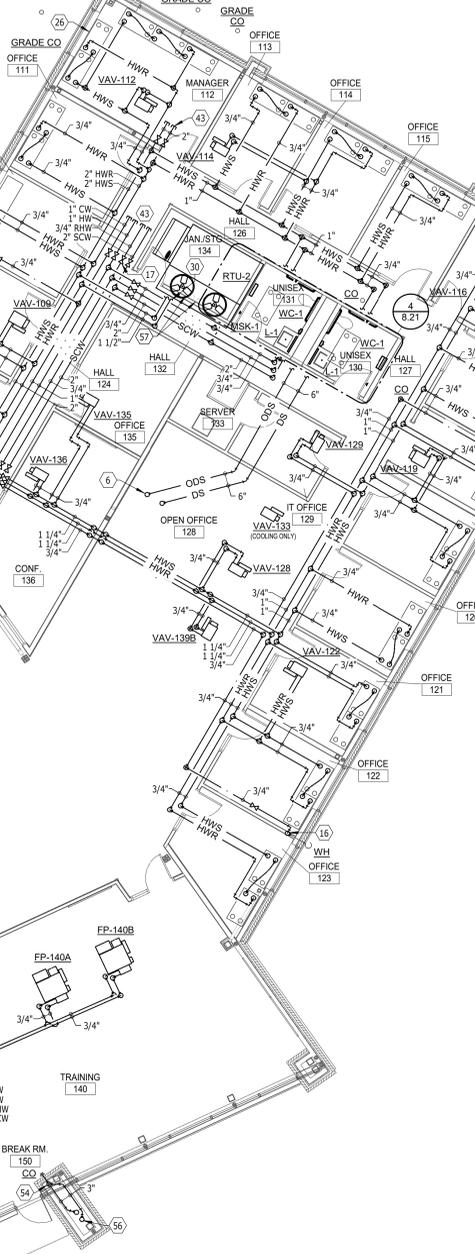
- A. THE CEILING SPACE AVAILABLE REQUIRES COORDINATION WITH OTHER TRADES. THE CONTRACTORS SHALL PROVIDE ALL OFFSETS AND RELOCATE AS REQUIRED TO COORDINATE THE INSTALLATION OF ALL MATERIALS AND EQUIPMENT WITH OTHER TRADES.
- B. ON DEMO DRAWINGS, ITEMS SHOWN LIGHT ARE EXISTING TO REMAIN, ITEMS SHOWN BOLD ARE EXISTING TO BE REMOVED.
- C. ON NEW CONSTRUCTION DRAWINGS, ITEMS SHOWN LIGHT ARE EXISTING TO REMAIN, ITEMS SHOWN BOLD ARE NEW WORK.

PLUMBING & HEATING NOTES

- 1 SAND-OIL INTERCEPTOR. SEE DETAIL.
- 2 3/4" HW DN, 3/4" RHV DN, 1 1/2" V/2" W DN, 1/2" SCW, 1/2" CW DN TO SK. ROUTE HARD WATER TO WATER FILL FAUCET. ROUTE SOFT WATER TO MAIN SINK FAUCET. PROVIDE 1/2" HW TAP OFF OF RECIRCULATION LOOP DN TO FIXTURE FOR SERVICE TO FIXTURE. PROVIDE FLEXIBLE HW SUPPLY FROM RECIRCULATION LOOP AND DRAIN CONNECTION TO ADJACENT DISHWASHER. COORDINATE EXACT EQUIPMENT SELECTIONS, INSTALLATION REQUIREMENTS, ROUGH-IN LOCATIONS, ETC. WITH GENERAL CONTRACTOR AND OWNER-PROVIDED EQUIPMENT PRIOR TO WORK.
- 3 1/2" CW DN TO COFFEE MAKER(S). FIELD COORDINATE EXACT NUMBER OF COFFEE MAKERS, EQUIPMENT SELECTIONS, INSTALLATION REQUIREMENTS, ROUGH-IN LOCATIONS, ETC. PRIOR TO WORK.
- 4 1/2" CW DN TO UB.
- 5 3/4" HWS, 3/4" HWR DN TO CUJH. SEE DETAIL.
- 6 8" DS UP TO RD, 6" ODS UP TO ORD.
- 7 8" DS UP TO RD, 8" ODS UP TO ORD.
- 8 CONTINUATION BY FIRE PROTECTION CONTRACTOR. FIELD COORDINATE EXACT LOCATION OF BACKFLOW PREVENTER, VALVING, ETC.
- 9 WATER METER WITH 2" REDUCED PRESSURE BACKFLOW PREVENTER. ROUTE RPZ DRAIN PER "BACKFLOW PREVENTER AND DRAIN DETAIL". CONFIRM THAT INSTALLATION MEETS AHJ REQUIREMENTS FOR BACKFLOW PREVENTION ASSEMBLY INSTALLATIONS. PROVIDE SEPARATE SHUTOFF VALVES IN ADDITION TO THE SHUTOFF VALVES THAT ARE INTEGRAL TO THE METER/RPZ ASSEMBLY.
- 10 4" V UP/DN (4" VTR), COORDINATE/CONFIRM SO THAT VENT IS AT LEAST 10' FROM NEARBY AIR INTAKES.
- 11 2" V DN.
- 12 FIRE DEPARTMENT CONNECTION. APPROXIMATE LOCATION SHOWN FOR REFERENCE ONLY. COORDINATE LOCATION, SIZE, REQUIREMENTS, ETC. WITH FIRE SPRINKLER CONTRACTOR.
- 13 GAS METER, 1250 MBH TOTAL. PIPING SIZED AT 2 PSIG (350' TOTAL LENGTH). GAS SERVICE BY GAS UTILITY COMPANY. ALL PIPING AFTER METER BY PLUMBING CONTRACTOR. COORDINATE EXACT LOCATION OF METER, REGULATOR, AND SERVICE WITH GAS COMPANY AND OTHER CONTRACTORS TO ENSURE THAT ALL CLEARANCE REQUIREMENTS ARE MET, PARTICULARLY WITH ANY NEARBY BUILDING OPENINGS, INTAKES, MECHANICAL/ELECTRICAL EQUIPMENT, ETC.
- 14 1/2" HW DN, 1 1/2" V/2" W DN, 1/2" CW DN.
- 15 ROUTE HW TO HW SUPPLY FROM WHTR. CONNECT DOWNSTREAM OF ALL VALVING. FIELD COORDINATE EXACT CONNECTION LOCATION, ROUTING, ETC. PRIOR TO WORK.
- 16 3/4" CW DN TO WH.
- 17 CALIBRATED BALANCE VALVE.
- 18 10" COMBINED DS/OODS DN W/ CO 24" AFF.
- 19 COORDINATE WITH G.C. TO PROVIDE ACCESS PANEL FOR ACCESS TO PLUMBING IN CHASE.
- 20 8" COMBINED DS/OODS DN W/ CO 24" AFF.
- 21 2" CW DN, 2" V DN FOR BACK-TO-BACK W.C.S. TEE 1 1/4" CW TO EACH WC.
- 22 1/2" CW, 1/2" HW DN TO SH.
- 23 PROVIDE WITH ACCESSIBLE ISOLATION SHUT-OFF VALVE IN HALLWAY. NOT SHOWN FOR CLARITY.
- 24 2" V UP (4" VTR), COORDINATE SO THAT VENT IS AT LEAST 10' FROM ANY NEARBY AIR INTAKES.
- 25 WATER HAMMER ARRESTOR.
- 26 AIRTEX RADIANT SYSTEMS, MPH MODULAR RADIANT CEILING PANELS. 24"x48" UNLESS SHOWN OTHERWISE, 155 MWT, 1200 BTU/HR/4" PANEL PERFORMANCE. SMOOTH WHITE SURFACE. 1" MIN INSULATION INSTALLED AT REAR OF PANELS (TYPICAL).
- 27 3/4" HWS, 3/4" HWR DN, 1 1/2" V/2" W DN, 1/2" CW DN. TEE 1/2" HW OFF OF RECIRCULATION LOOP DN TO FIXTURE(S) FOR SERVICE TO FIXTURE(S).
- 28 1/2" HW, 3/4" CW DN TO MSK. MOUNT HB AT 60" AFF.
- 29 CALIBRATED BALANCE VALVE. REFER TO WATER HEATER DETAIL.
- 30 HWS/R UP THROUGH CURB TO RTU. FIELD COORDINATE EXACT LOCATION OF HEATING COIL IN UNIT. CONTINUATION, CONNECTION REQUIREMENTS, ETC. PRIOR TO INSTALLATION. INSTALL VALVING IN ACCESSIBLE LOCATION. SEE DETAIL.
- 31 WATER SOFTENER AND BRINE TANK SYSTEM. PROVIDE CONTINUATIONS, CONNECTIONS, AND INSTALLATION PER MANUFACTURER'S RECOMMENDATIONS.
- 32 NORMALLY CLOSED BYPASS VALVE.
- 33 REFER TO WATER HEATER DETAIL FOR CONTINUATION.
- 34 THERMOSTATIC MIXING VALVE. SEE WATER HEATER DETAIL.
- 35 G DN, WITH GAS COCK AND CAP. FOR POTENTIAL FUTURE PATIO FIXTURES. LOCATION SHOWN IS APPROXIMATE. CONFIRM/COORDINATE EXACT LOCATION AND REQUIREMENTS PRIOR TO WORK.
- 36 STACK PIPES ALONG WALL AS ABLE. SHOWN OFFSET FOR CLARITY. FIELD COORDINATE EXACT ROUTING.
- 37 G HWS/R DN TO BOILER. REFER TO DETAIL FOR CONTINUATION.
- 38 HOT WATER BOILER AND BOILER CIRCULATION PUMP. SEE DETAIL.
- 39 IN-LINE HEATING PUMPS (STACKED), SEE DETAIL.
- 40 EXPANSION TANK. BELL & GOSSETT MODEL D-144V, OR EQUAL.
- 41 AIR SEPARATOR. BELL & GOSSETT MODEL R-3, OR EQUAL. SEE DETAIL.
- 42 PROVIDE CUSTOM RADIANT CEILING PANEL AT THIS LOCATION. 2" WIDE AND APPROX. 6' LENGTH, 155 MWT, 1200 BTU/HR/4" PANEL PERFORMANCE. SMOOTH WHITE SURFACE. 1" MIN INSULATION INSTALLED AT REAR OF PANEL.
- 43 VALVED AND CAPPED PIPES FOR FUTURE EXPANSION.
- 44 VENT AND COMBUSTION AIR UP THROUGH ROOF. SIZE AND INSTALL PER MANUFACTURER'S RECOMMENDATIONS. COORDINATE/CONFIRM THAT VENT IS AT LEAST 10' FROM NEARBY AIR INTAKES.
- 45 CONCENTRIC AIR INTAKE AND VENT UP THROUGH ROOF. SIZE AND INSTALL PER MANUFACTURER'S RECOMMENDATIONS. COORDINATE/CONFIRM THAT VENT IS AT LEAST 10' FROM NEARBY AIR INTAKES.
- 46 2" FOV UP (4" VTR), COORDINATE/CONFIRM SO THAT VENT IS AT LEAST 10' FROM NEARBY AIR INTAKES.
- 47 2" FOV DN.
- 48 1/2" CW DN TO ICE MAKER. STUB THROUGH WALL TO ESCUTCHEON. FIELD COORDINATE EXACT EQUIPMENT LOCATION, CONNECTION REQUIREMENTS, ETC. PRIOR TO WORK.
- 49 PIPING SERVING BREAK ROOM FIXTURES SHOWN FOR CLARITY. PIPING TO DROP IN CHASE AND EXTEND HORIZONTALLY IN WALL BEHIND CABINET TO BE FULLY CONCEALED.
- 50 1 1/2" LSPRD DN THRU WALL & CAPPED FOR FUTURE CONNECTION.
- 51 1" IRRIGATION METER WITH 1 1/2" REDUCED PRESSURE BACKFLOW PREVENTER. ROUTE RPZ DRAIN PER "BACKFLOW PREVENTER AND DRAIN DETAIL". CONFIRM THAT INSTALLATION MEETS AHJ REQUIREMENTS FOR BACKFLOW PREVENTION ASSEMBLY INSTALLATIONS. PROVIDE SEPARATE SHUTOFF VALVES IN ADDITION TO THE SHUTOFF VALVES THAT ARE INTEGRAL TO THE METER/RPZ ASSEMBLY. OFFSET IRRIGATION RPZ ASSEMBLY TO AVOID INSTALLING DIRECTLY OVER THE BUILDING WATER METER/RPZ ASSEMBLY. MAINTAIN ALL OTHER METER/RPZ ASSEMBLY CLEARANCES AS REQUIRED BY THE CITY OF SIOUX FALLS.
- 52 TRENCH DRAIN. ZURN Z886-GFG WITH GALVANIZED DUCTILE IRON FRAME & SLOTTED GRADE - CLASS F OR EQUAL.
- 53 3/4" CW DN TO HB.
- 54 4" COMBINED DS/OODS DN W/ CO 24" AFF.
- 55 ROUTE PIPING AROUND ROOF ACCESS HATCH LOCATION TO PROVIDE ACCESSIBILITY. ROUTING SHOWN IS FOR CLARITY ONLY.
- 56 8" DS UP TO RD, 3" ODS UP TO ORD.
- 57 ELECTRICAL EQUIPMENT. MAINTAIN REQUIRED CLEARANCES. JOG/STACK PIPES AS NECESSARY TO MAINTAIN ADEQUATE SPACE FROM ELECTRICAL EQUIPMENT. COORDINATE WITH ELECTRICAL CONTRACTOR. TYP ALL.

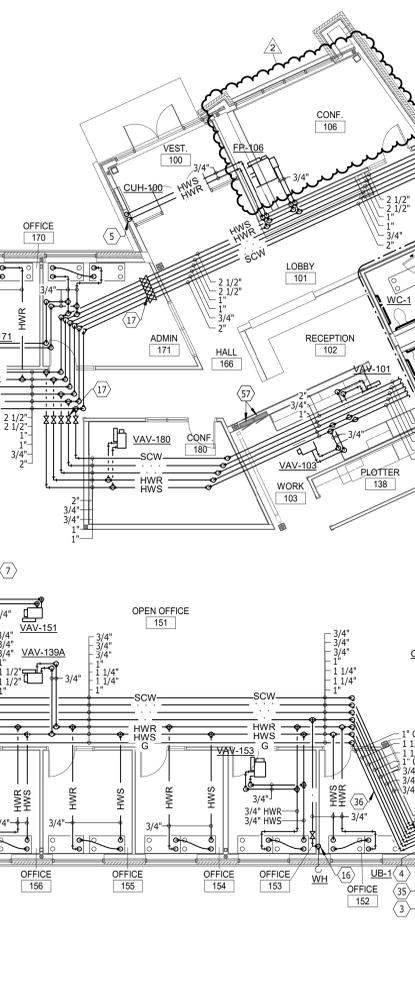
ENLARGED PLAN - NORTHEAST RR'S - PLUMBING & HEATING

1/4" = 1'-0"



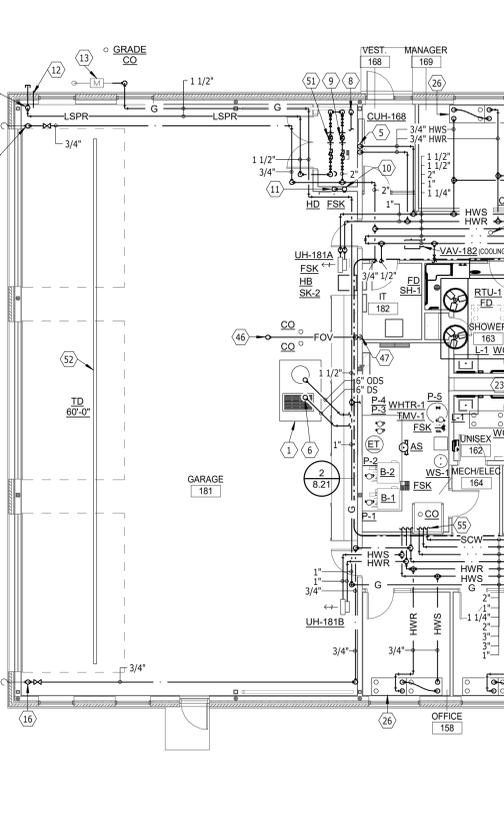
ENLARGED PLAN - CENTRAL RR'S - PLUMBING & HEATING

1/4" = 1'-0"



ENLARGED PLAN - MECHANICAL & WEST RR'S - PLUMBING & HEATING

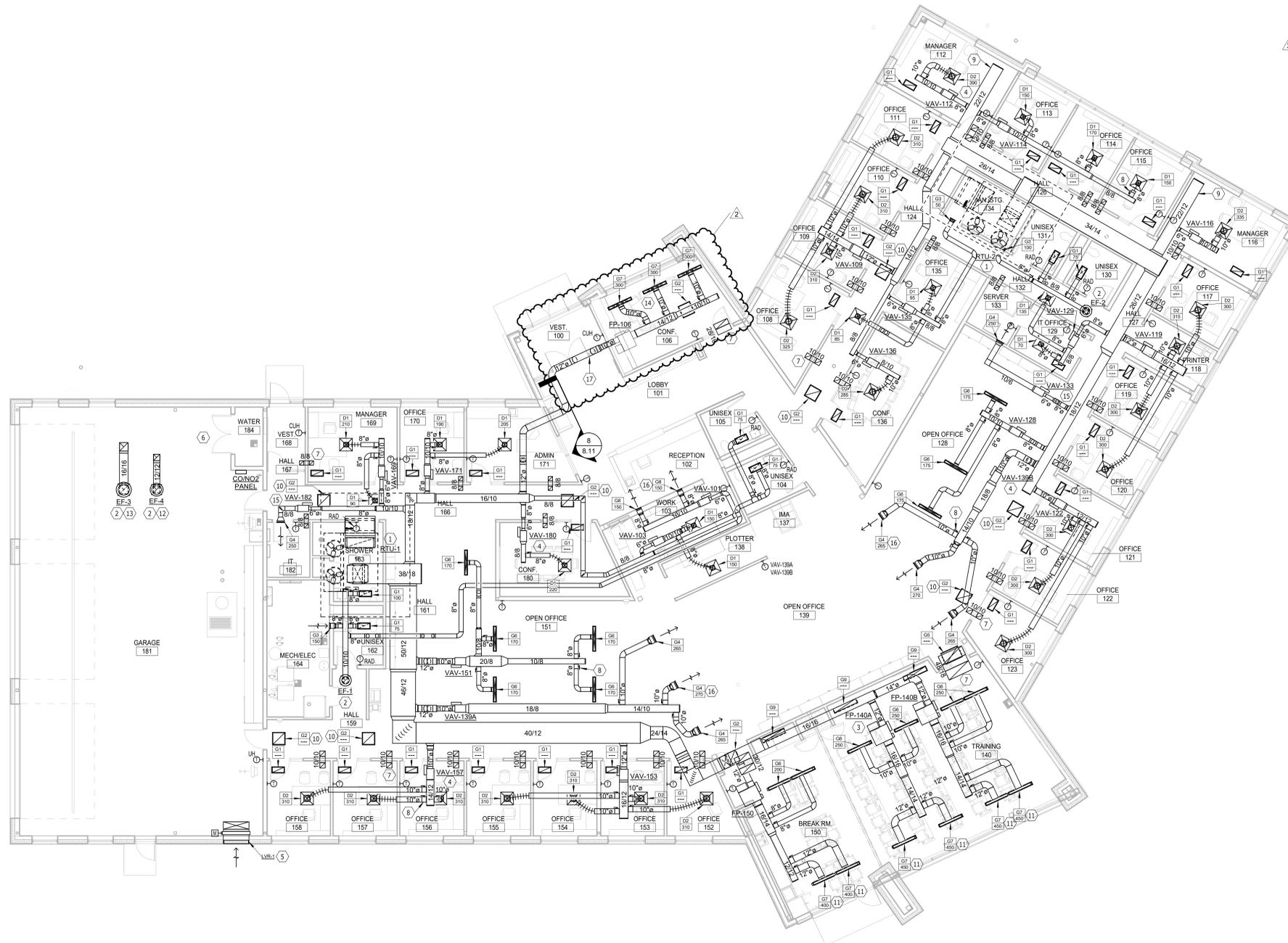
1/4" = 1'-0"



FLOOR PLAN - PLUMBING & HEATING

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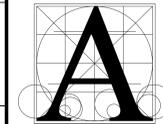
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FIRST FLOOR PLAN - VENTILATION & A/C
 SCALE 0 4 8 12 16

GENERAL SHEET NOTES

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- B. ON DEMO DRAWINGS, ITEMS SHOWN LIGHT ARE EXISTING TO REMAIN, ITEMS SHOWN BOLD ARE EXISTING TO BE REMOVED.
- C. ON NEW CONSTRUCTION DRAWINGS, ITEMS SHOWN LIGHT ARE EXISTING TO REMAIN, ITEMS SHOWN BOLD ARE NEW WORK.

VENTILATION NOTES

- 1. ROOFTOP UNIT INSTALLED ON INSULATED ROOF CURB. SEE DETAIL. MAINTAIN MANUFACTURERS CLEARANCES.
- 2. POWERED ROOF VENTILATOR INSTALLED ON INSULATED ROOF CURB. SEE DETAIL. MAINTAIN MANUFACTURERS CLEARANCES.
- 3. FAN POWERED VAV BOX WITH REHEAT COIL INSTALLED ABOVE CEILING. PROVIDE SOUND ATTENUATION BOOT. (TYP)
- 4. SHUT-OFF TYPE VAV BOX WITH REHEAT COIL INSTALLED ABOVE CEILING. (TYP)
- 5. INTAKE LOUVER. SEE DETAIL.
- 6. COINQZ PANEL. PROVIDE SENSORS AS REQUIRED FOR FULL COVERAGE OF GARAGE. INTERLOCK WITH ASSOCIATED FANS AND MOTORIZED DAMPER ON LVR-1.
- 7. TRANSFER AIR DUCT INSTALLED ABOVE CEILING. SEE DETAIL.
- 8. BALANCE DAMPER (TYP)
- 9. DUCTWORK SIZED FOR FUTURE EXPANSION.
- 10. PROVIDE THIS GRILLE UNDER ALTERNATE #1 ONLY.
- 11. PROVIDE WITH ONE DIRECTION AIMED TOWARDS EXTERIOR WINDOWS.
- 12. CONTINUOUS MINIMUM EXHAUST FAN. PROVIDE BIRDSCREEN OVER OPENING.
- 13. INTERLOCK EXHAUST FAN WITH COINQZ CONTROL PANEL AND MOTORIZED DAMPER ON INTAKE LOUVER. PROVIDE BIRDSCREEN OVER OPENING.
- 14. DIFFUSER GRILLES INSTALLED IN LAY-IN CEILING ABOVE WOOD CEILING FEATURE.
- 15. COOLING ONLY VAV (NO REHEAT COIL).
- 16. SIDEWALL SUPPLY GRILLE. COORDINATE LOCATIONS WITH GENERAL CONTRACTOR.
- 17. DUCTWORK TO RISE OUT OF SOFFIT AND BE EXPOSED AND POTENTIALLY VISIBLE. PROVIDE PAINT GRIP TYPE DUCT FOR EXPOSED PORTION ABOVE SOFFIT. MATCH SURROUNDING WALL PAINT COLOR.



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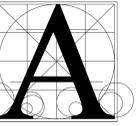
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Project
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Sheet Contents
FIRST FLOOR PLAN - VENTILATION & A/C

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|----------|---------------|-------------|
| number | 2932 | |
| date | 7-30-21 | |
| revision | | |
| drawn | DK checked Td | |
| NO. | DATE | DESCRIPTION |
| 1 | 8/11/21 | ADDENDUM #1 |
| 2 | 8/16/21 | ADDENDUM #2 |

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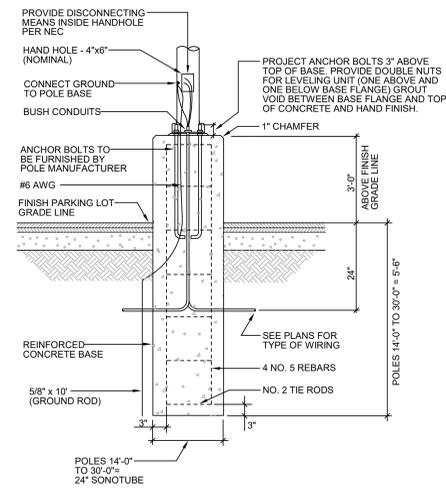
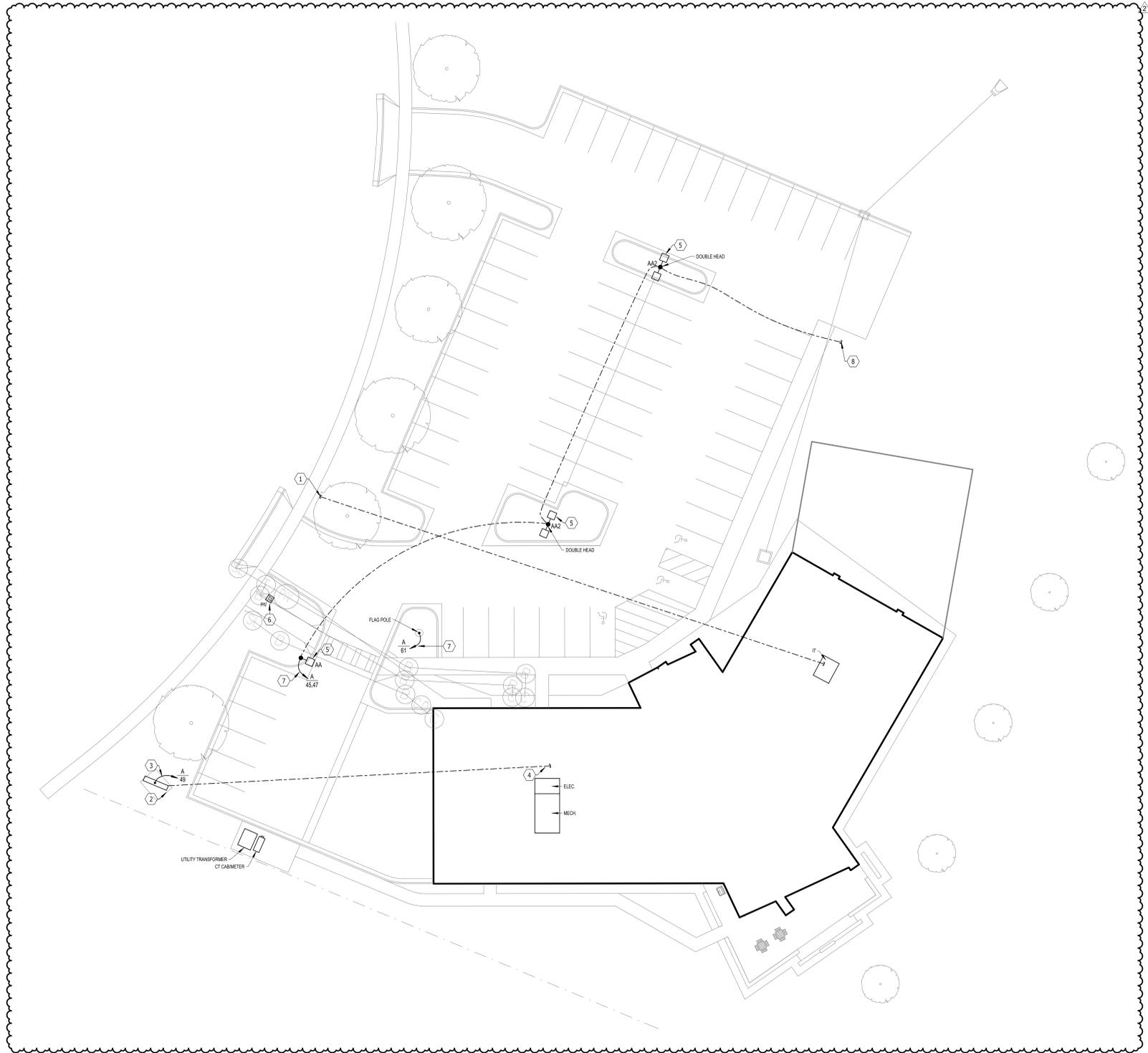
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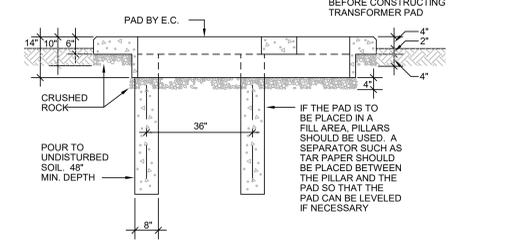
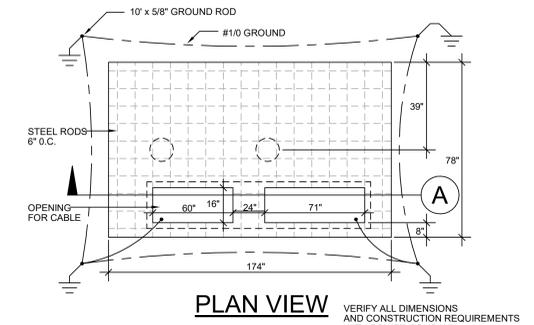


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- ELECTRICAL NOTES**
- 1 PROVIDE (2) 3" C. RACEWAYS TO PROPERTY LINE OR TELECOM SERVICE PEDESTAL AS COORDINATED WITH SERVICE PROVIDERS TO SUPPORT TELECOMMUNICATIONS AND CATV SERVICES.
 - 2 PROVIDE EMPTY 1" C. RACEWAY ROUTED TO TELECOM RACK FOR FUTURE MONUMENT SIGN COMMUNICATIONS.
 - 3 PROVIDE ELECTRICAL CONNECTIONS FOR MONUMENT SIGN INTEGRAL LIGHTING FOR LETTERING. SEE ARCH DETAIL.
 - 4 ROUTE TO SERVER ROOM (DEMARC).
 - 5 FRONT EDGE OF SITE LIGHT POLE BASE SHALL BE MINIMUM OF 24" BEHIND CURB, TYPICAL.
 - 6 CO-LOCATE WITH POST INDICATOR VALVE (PIV) LOCATION.
 - 7 CONTROL EXTERIOR/SITE LIGHTING VIA TIMECLOCK/PHOTOCELL. SEE LIGHTING CONTROL DIAGRAM.
 - 8 PROVIDE RACEWAY STUBOUT FOR FUTURE LIGHTING TO ACCOMMODATE FUTURE PARKING LOT EXPANSION.
- GENERAL SHEET NOTES**
- A. LOCATE ALL PUBLIC AND PRIVATE LINES WITHIN CONSTRUCTION LIMITS.
 - B. ALL EXTERIOR BRANCH CIRCUITS AND HOMERUNS SHALL BE #10 CU CONDUCTORS IN 1" C. RACEWAYS.



TYPE "AA & AA2" FIXTURE POLE BASE DETAIL
NO SCALE



SECTION VIEW
TRANSFORMER PAD DETAIL
NO SCALE

SITE PLAN - ELECTRICAL
SCALE 0 10 20 30 40

DGR OFFICE
SITE PLAN - ELECTRICAL

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