1. WALL WILL RECEIVE LARGE ART (TBD) PLACED ON PERFORATED METAL
2. WALL TO BE PAINTED 'LINDEN' GRAPHIC, COLOR WHITE, SEE
3. ALIGN TOP OF COPING TO SAME ELEVATION AS EXISTING WALL
4. JOINT LINES OF ACM SOFFIT PANELS SHALL ALIGN WITH ACM FASCIA JOINT
5. EXPOSED EXISTING STEEL LINTEL, PRIME AND PAINT TO MATCH BRICK
6. EXISTING LOUVER, BLANK OFF AS REQUIRED
7. CUT AND INSTALL INSTALL NEW OPEN LOUVER AS REQUIRED, SEE
FACE BRICK
INSULATION
RIGID BOARD
MEMBRANE AIR
UNIT
CONCRETE MASONRY

FACE BRICK - TYPE 1 - RUNNING BOND
DETAIL

1 1/2" = 1'-0"
OR EQUAL. FULL HEIGHT OF WALL -
BACKERSEAL - EMSEAL GREYFLEX
APPLIED

DIRECT APPLIED LOW MODULUS
TYPE 1

3'-1"

HOLLOW METAL FRAMES
SEALANT & BACKER ROD
TEAR AWAY BEAD
3 5/8"
SEE SPECS

BB

1'-5 3/4"

AA

5/8"
2 3/16"

EXTERIOR WALL
EDGE OF EXISTING

CC

5/8"

PILASTER AT STUDY ROOM WALL
CLEVELAND MURAL @ ACM
6"

2'-7 5/8"

BB

07 21 00.A1 RIGID BOARD INSULATION
06 10 00.B1 EXTERIOR GRADE PLYWOOD
05 40 00.A2 C-SHAPED METAL STUD - 2-1/2"
05 12 00.A8 STEEL ST SHAPE
04 00 00.Z1 AIR SPACE
04 00 00.D4 CONCRETE MASONRY UNIT - 8"
04 00 00.B1A FACE BRICK - TYPE 1 - RUNNING BOND

KEY VALUE KEYNOTE TEXT

1 1/2" = 1'-0" REF: 1 / A101
1 1/2" = 1'-0" REF: 1 / A102

6" CFMF STUDS
SHEATHING
EXTERIOR GYPSUM
BARRIER
FLUID
PANELS
METAL COMPOSITE WALL
BARRIER
FLUID
APPLIED MEMBRANE AIR
APPLIED MEMBRANE AIR

EXTERIOR GYPSUM SHEATHING
STRUCTURAL DRAWINGS
6" CFMF STUDS

1. X
1. X

GENERAL NOTES - EXTERIOR DETAILS KEYNOTE LEGEND
CODED NOTES - EXTERIOR DETAILS

DRAWINGS
STRUCTURAL
GYPSUM BOARD

'7'

AIRSPACE
FACE BRICK
5/8" EXTERIOR GRADE
FLUID
STUD
C

TYPE)
GLASS DOORS (BARN
ALUMINUM
SLIDING
FRAMED

METAL COMPOSITE WALL
BARRIER
FLUID
APPLIED MEMBRANE AIR
APPLIED MEMBRANE AIR

EXTERIOR GYPSUM SHEATHING
FLUID
FULLY ADHERED TPO ROOFING
SYSTEM
METAL COMPOSITE WALL
BARRIER
FLUID
APPLIED MEMBRANE AIR
APPLIED MEMBRANE AIR

EXTERIOR GRADE
FLUID
PANELS
METAL COMPOSITE WALL
BARRIER
FLUID
APPLIED MEMBRANE AIR
APPLIED MEMBRANE AIR

EXTERIOR GYPSUM SHEATHING
STRUCTURAL DRAWINGS
6" CFMF STUDS

1. X
1. X

GENERAL NOTES - EXTERIOR DETAILS KEYNOTE LEGEND
CODED NOTES - EXTERIOR DETAILS

DRAWINGS
STRUCTURAL
GYPSUM BOARD

'7'

AIRSPACE
FACE BRICK
5/8" EXTERIOR GRADE
FLUID
STUD
C

TYPE)
GLASS DOORS (BARN
ALUMINUM
SLIDING
FRAMED

METAL COMPOSITE WALL
BARRIER
FLUID
APPLIED MEMBRANE AIR
APPLIED MEMBRANE AIR

EXTERIOR GYPSUM SHEATHING
STRUCTURAL DRAWINGS
6" CFMF STUDS

1. X
1. X

GENERAL NOTES - EXTERIOR DETAILS KEYNOTE LEGEND
CODED NOTES - EXTERIOR DETAILS

DRAWINGS
STRUCTURAL
GYPSUM BOARD

'7'

AIRSPACE
FACE BRICK
5/8" EXTERIOR GRADE
FLUID
STUD
C

TYPE)
GLASS DOORS (BARN
ALUMINUM
SLIDING
FRAMED

METAL COMPOSITE WALL
BARRIER
FLUID
APPLIED MEMBRANE AIR
APPLIED MEMBRANE AIR

EXTERIOR GYPSUM SHEATHING
STRUCTURAL DRAWINGS
6" CFMF STUDS

1. X
1. X

GENERAL NOTES - EXTERIOR DETAILS KEYNOTE LEGEND
CODED NOTES - EXTERIOR DETAILS

DRAWINGS
STRUCTURAL
GYPSUM BOARD

'7'

AIRSPACE
FACE BRICK
5/8" EXTERIOR GRADE
FLUID
STUD
C

TYPE)
GLASS DOORS (BARN
ALUMINUM
SLIDING
FRAMED

METAL COMPOSITE WALL
BARRIER
FLUID
APPLIED MEMBRANE AIR
APPLIED MEMBRANE AIR

EXTERIOR GYPSUM SHEATHING
STRUCTURAL DRAWINGS
6" CFMF STUDS

1. X
1. X

GENERAL NOTES - EXTERIOR DETAILS KEYNOTE LEGEND
CODED NOTES - EXTERIOR DETAILS

DRAWINGS
STRUCTURAL
GYPSUM BOARD

'7'

AIRSPACE
FACE BRICK
5/8" EXTERIOR GRADE
FLUID
STUD
C

TYPE)
GLASS DOORS (BARN
ALUMINUM
SLIDING
FRAMED

METAL COMPOSITE WALL
BARRIER
FLUID
APPLIED MEMBRANE AIR
APPLIED MEMBRANE AIR

EXTERIOR GYPSUM SHEATHING
STRUCTURAL DRAWINGS
6" CFMF STUDS

1. X
1. X

GENERAL NOTES - EXTERIOR DETAILS KEYNOTE LEGEND
CODED NOTES - EXTERIOR DETAILS

DRAWINGS
STRUCTURAL
GYPSUM BOARD

'7'

AIRSPACE
FACE BRICK
5/8" EXTERIOR GRADE
FLUID
STUD
C

TYPE)
GLASS DOORS (BARN
ALUMINUM
SLIDING
FRAMED

METAL COMPOSITE WALL
BARRIER
FLUID
APPLIED MEMBRANE AIR
APPLIED MEMBRANE AIR

EXTERIOR GYPSUM SHEATHING
STRUCTURAL DRAWINGS
6" CFMF STUDS

1. X
1. X
1. GENERAL NOTES - ROOF DETAILS

KEYNOTE LEGEND

1. CODED NOTES - ROOF DETAILS

SECTION A

---

STL. BEAM
SEE STRUCT. DWGS.

STL. CHANNEL
SEE STRUCT. DWGS.

2X TREATED WD. BLOCKING

PRESSURE INTENSIFIER
HOLD OPEN ARM
VINYL GRIP
INSIDE PADLOCK
PROVISION ONE POINT LOCKING UNIT
LINER
FRAME COVER
HEAVY DUTY HINGE
W/ PIVOT PIN
EXTRUDED RUBBER GASKET
REINFORCING CHANNEL (TYPICAL)
OUTSIDE HANDLE
VINYL GRIP
1" FIBERGLASS INSULATION

NOTE:
SEE ROOF PLAN ON DRAWING SHEET A120 FOR SIZE AND LOCATION OF ROOF HATCHES.

---

HANDRAIL
TREADS
EXTENSION

GALVANIZED STEEL PIER (HHS 3" O.D.) WELDED TO STEEL BEAM
EXTEND ROOF FLASHING UP SIDES OF PIER
PIPE CLAMP AND SEALANT
STAINLESS STEEL U-BAR
SAFETY ANCHOR HORIZONTAL CABLE WHERE INDICATED ON PLANS

---

STRUCTURAL BEAM - SEE STRUCTURAL DWGS

STRUCTURAL ROOF DECK - SEE STRUCTURAL DWGS

COVER BOARD
ROOFING SYSTEM

1/4" REFER TO STRUCT. DWGS.
WRAP MEMBRANE UP PER MANUF. INSTRUCTIONS.
MIN 8" UP TURN

8" MIN.
UPPER ROOF
127'-0" 5/8"
UPPER LEVEL
114'-0"

68°
6'-11 11/16"
6'-0"
2'-3 5/8"
300 SPRUCE STREET
SUITE 300
COLUMBUS, OHIO 43215
PHONE: (614) 461-4664
FAX: (614) 280-8881

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XXX XXX
ROOF DETAILS
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1. All dimensions are to face of wall (unless noted otherwise).

2. Restroom Core Level 01

3. See structural drawings for locations of all steel reinforcing in wall & floor construction.

4. See finish schedule for additional information of locations and types of finish materials.

5. Provide in-wall blocking for all toilet accessories, grab bars, adjustable shelving, fire extinguishers, TV monitors, art work, monitors, art work and casework, etc. See interior elevations for locations of TV & storage.

6. General notes - Enlarged Plans keynote legend:
   - 1. See mounting heights schedule on sheet A810
   - 4. See finish schedule for additional information of locations and types of finish materials.
   - 5. Provide in-wall blocking for all toilet accessories, grab bars, adjustable shelving, fire extinguishers, TV monitors, art work, monitors, art work and casework, etc. See interior elevations for locations of TV & storage.
<no text content>
1. All dimensions are to face of wall (unless noted otherwise).
2. See finish plans and legend for additional information of locations and types of finish materials.
3. All mounting heights are above finished floor (AFF). See sheet A810.
4. Refer to PME drawings for other requirements not shown on interior elevations. Notify architect of discrepancies for clarification.
5. Provide blind cabinets where applicable.
6. Contractor to provide blocking in wall as required for all owner furnished wall mounted equipment and accessories. Coordinate final location with owner.
7. Provide scribes/fillers between all walls and cabinet ends, U.N.O. Provide minimum 2" fillers between the corner cabinets in an "L" shape configuration.
8. Provide corner closure piece under the wall cabinets in an "L" shape configuration.
9. Wall base and wall finish are to extend behind equipment.
10. Coordinate locations of grommets where necessary for computer cords with owner, U.N.O.
11. Casework manufacturer shall verify/measure all field conditions prior to fabrication of casework/countertops. Any alteration to casework requires as a result of field conditions shall be approved by the architect and owner prior to fabrication or installation. Casework manufacturer shall coordinate with contractor installation of blocking.
12. Provide finished ends/sides of all exposed end cabinets.
1. SCHEDULED WALL BASE SHAPES.
2. ACOUSTIC CEILING BAFFLES, REFER TO RCP AP-1.
3. ALL MOUNTING HEIGHTS ARE ABOVE FINISHED FLOOR (A FF). SEE SHEET 1.
4. REFER TO PME DRAWINGS FOR OTHER REQUIREMENTS NOT SHOWN ON INTERIOR ELEVATIONS.
5. PROVIDE SCRIBES / FILLERS BETWEEN ALL WALLS AND CABINET ENDS, U.N.O.
6. CONTRACTOR TO PROVIDE BLOCKING IN WALL AS REQUIRED FOR ALL OWNER LOCATIONS AND TYPES OF FINISH MATERIALS.
7. PROVIDE SCRIBES / FILLERS BETWEEN ALL WALLS AND CABINET ENDS, U.N.O.
8. PROVIDE SOLID SURFACE (SS-1) PANEL BEHIND HAND DRYER DOWN TO 5'-9".
9. PROVIDE SOLID SURFACE BOOK DISPLAY RAIL, REFER TO TYPICAL CASEWORK DETAIL 4.
10. COORDINATE LOCATIONS OF GROMMETS WHERE NECESSARY FOR INSTALLATION.
11. CASEWORK MANUFACTURER SHALL VERIFY/MEASURE ALL FIELD CONDITIONS PRIOR TO FABRICATION OF CASEWORK / COUNTERTOPS.
12. PROVIDE FINISHED ENDS/SIDES OF ALL EXPOSED ENDS CABINETS.

INTERIOR GLAZING

4. ELEVATION - SCHOOL, MULTIPURPOSE ROOMS
10'-0" ELEVATION 1/4" = 1'-0" REF: 1 / A101

ELEVATION

1. TBD
2. CHILDREN'S 210 WEST
3. SCHOOL HELP CENTER 220 E
4. SCHOOL HELP CENTER 220 SOUTH
5. WC-1
6. SOLID SURFACE BOOK DISPLAY RAIL, REFER TO TYPICAL CASEWORK DETAIL 4.
7. Wall Mounted Tablet
8. PROVIDE SOLID SURFACE (SS-1) PANEL BEHIND HAND DRYER DOWN TO 5'-9".
9. PROVIDE SOLID SURFACE BOOK DISPLAY RAIL, REFER TO TYPICAL CASEWORK DETAIL 4.

GLAZING LEGEND

- GL
- AQUARIUM
- GLASS GARAGE DOOR
- INTERIOR GLAZING (CLEAR)
- INTERIOR GLAZING (CLEAR TEMPERED)

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PROJECT # 21507.02

CONSTRUCTION PROGRESS DOCUMENTS

DATE CHANGE DESCRIPTION STOP-LOG PRINT DATE: 10/25/2023 1:41:17 PM
© 2021 MOODY•NOLAN INC.
1. REFER TO SPECIFICATION MANUAL SECTIONS 06-20-00 (FINISHED SPACE ARE TO RECEIVE A MINIMUM OF (1) INSERT EVERY 48". EXACT LOCATIONS TO BE VERIFIED IN FIELD WITH OWNER.

2. WALL PANEL: PLASTIC LAMINATE (PL-3) ON 3/4" MDF SUBSTRATE.

3. CASES AND COMPONENTS: PLASTIC LAMINATE ON 3/4" CABINET-GRADE PLYWOOD SUBSTRATE. (COLOR AS NOTED ON ELEVATIONS).

4. PLASTIC LAMINATE DOORS AND DRAWER FRONTS, FULL OVERLAY WITH MITER JOINT, PENCIL-EDGE NOSING ON 3/4" CABINET-GRADE PLYWOOD SUBSTRATE. (COLOR AS NOTED). ALL EXPOSED INTERIOR SURFACES ARE TO BE CLAD IN WHITE MELAMINE.  HIDDEN OR CONCEALED METAL "L" BRACKET SUPPORTED ON NICKEL (SPOON-TYPE) SHELF PINS. RECEIVING HOLES SCHEDULED WALL AND EMBOLED IN WALL AND VANITY SURROUND AND INTEGRAL (SOLID SURFACE) SINK. REFER TO MEP DRAWINGS FOR CLARITY – THIS IS NOT TO BE TAKEN AS A FULL ACCOUNTING.

5. ALL COUNTERTOPS ARE TO INCLUDE A CONTINUOUS MATCHING MDF RIBS SPACED NOT MORE THAN 16" O.C. PROVIDE PENETRATIONS BEHIND OTHER RUN TO FILL IN CORNER DEAD SPACE – MODIFY AUGMENT EXACT LOCATIONS TO BE VERIFIED IN FIELD WITH OWNER. FOR BLOCKING PROVIDE “CORNER CABINET”StatusBar. SEE PLUMBING DRAWINGS)

6. DOOR/DRAWER PULL, SEE DRAWING TITLE: CASEWORK DETAILS FOR STYLE REFERENCE ONLY.

7. DRAWERS (EXCEPT FILES) ON MEDIUM-DUTY, FULL EXTENSION, SOFT-EXTENSION GLIDES. (WHITE MELAMINE INTERIORS). MDF RIBS SPACED NOT MORE THAN 16" O.C. PROVIDE PENETRATIONS FOR BLOCKING BEHIND OTHER RUN TO FILL IN CORNER DEAD SPACE – MODIFY AUGMENT EXACT LOCATIONS TO BE VERIFIED IN FIELD WITH OWNER. FOR BLOCKING PROVIDE “CORNER CABINET”StatusBar. SEE PLUMBING DRAWINGS)

8. GENERAL CONTRACTOR IS RESPONSIBLE FOR PROVIDING IN-WALL BLOCKING FOR ANY/ALL FINISH CARPENTRY OR ANCILLARY COMPONENTS. SEE SPECIFICATION SECTION (IMAGE FOR STYLE REFERENCE ONLY)

9. NOTE THAT EQUIPMENT/APPLIANCES SHOWN IS FOR REFERENCE ONLY.

10. FOR CABINETS AT INSIDE CORNERS: PROVIDE "CORNER CABINET" StatusBar. SEE PLUMBING DRAWINGS)

11. Finish/Material Abbreviations are delineated in the Overall Project Finish Legend.

12. For cabinets at inside corners: Provide "Corner Cabinet" StatusBar. See Plumbing Drawings.

13. Note that equipment/applications shown is for reference only.

14. General contractor is responsible for providing in-wall blocking for any/all finish carpentry or ancillary components. See specification section (image for style reference only).

15. Drawers (except files) on medium-duty, full extension, soft-extension glides. (White melamine interiors).

16. MDF ribs spaced not more than 16" O.C. Provide penetrations behind other run to fill in corner dead space – modify augment exact locations to be verified in field with owner. For blocking provide "Corner Cabinet" StatusBar. See plumbing drawings.

17. Drawings for clarity – this is not to be taken as a full accounting.
2. GENERAL CONTRACTOR IS RESPONSIBLE FOR PROVIDING IN-WALL BLOCKING

1. REFER TO SPECIFICATION MANUAL SECTIONS 06-20-00 (FINISHED

7. ALL THRU-COUNTER WIRE MANAGEMENT SLOTS ARE TO BE 2"

6. PLASTIC LAMINATE COUNTERTOPS ARE TO HAVE A 1 ½" NO SING WITH A

5. ALL COUNTERTOPS ARE TO INCLUDE A CONTINUOUS MATCHING 4"

4. PROVIDE LOCKS FOR CABINET DOORS (UPPER AND LOWER) AS NOTED ON

3. CASES AND COMPONENTS: PLASTIC LAMINATE ON 3/4" CABINET-GRADE

2. WALL PANEL: PLASTIC LAMINATE (PL-3) ON 3/4" MDF SUBSTRATE.

11. FINISH/MATERIAL ABBREVIATIONS ARE DELINEATED IN THE OVERALL

10. FOR CABINETS AT INSIDE CORNERS: PROVIDE "CORNER CABINET"

9. NOTE THAT EQUIPMENT/APPLIANCES SHOWN IS FOR REFERENCE ONLY.

8. FOR "WET" AREAS (INCLUDING ALL FOOD SERVICE CABINETRY):

7. DRAWERS (EXCEPT FILES) ON MEDIUM-DUTY, FULL EXTENSION, SOFT-

6. SCHEDULED WALL BASE.

5. CABINET INTERIORS TO BE WHITE MELAMINE WITH MATCHING

4. PLASTIC LAMINATE DOORS AND DRAWER FRONTS, FULL OVERLAY

3. ROCKLED ON PLASTIC LAMINATE PANEL, FULL R+L MATERIALS.

2. WALL PANEL: PLASTIC LAMINATE (PL-3) ON 3/4" MDF SUBSTRATE.

1. REFER TO SPECIFICATION MANUAL SECTIONS 06-20-00 (FINISHED
LEVEL 02 - FURNITURE PLAN

NOTE: FURNITURE PLAN SHOWN FOR REFERENCE ONLY - FURNITURE TO BE PURCHASED IN FUTURE FFE BID PACKAGE
1. PROVIDE NEW DOMESTIC WATER, SANITARY WASTE, STORM DRAINAGE, NATURAL GAS FOR THIS BUILDING. PROVIDE ALL NECESSARY COMPONENTS FOR FULLY OPERATIONAL SYSTEM. INSTALL SYSTEMS IN ACCORDANCE WITH STATE GAS RATING REQUIREMENTS AND LOCAL AUTHORITY HAVING JURISDICTION.

2. ALL FLOOR PENETRATIONS TO BE SEALED WATER TIGHT AND COMPLETELY PACKED WITH FIRE STOP MATERIAL BY TRADE CONTRACTORS.

3. CONTRACTOR SHALL SUBMIT SYSTEM CATALOG PRODUCT DATA SHEETS OF ALL MATERIALS AND EQUIPMENT SHALL BE NEW.

4. DRAWINGS ARE NOT TO BE SCALED. DIMENSIONS SHALL GOVERN. CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CONDITIONS AT THE JOB SITE CONCERNING THE EXACT LOCATIONS OF COMPONENTS, NOR SHOW ALL SYSTEM RATINGS OF ALL FIRESTOP ASSEMBLIES SHALL BE GREATER THAN OR EQUAL TO THE PIPE DIAMETER OF THE PENETRATING PIPE.

5. CONTRACTOR SHALL BE RESPONSIBLE FOR AVOIDING ALL CONFLICTS WITH LIGHTING FIXTURES, DIFFUSERS, GRILLES, DUCTS, STRUCTURAL MEMBERS, COMPONENTS PROPOSED FOR USE PRIOR TO INSTALLATION FOR APPROVAL. LIGHTING FIXTURES, DIFFUSERS, GRILLES, DUCTS, STRUCTURAL MEMBERS, COMPONENTS PROPOSED FOR USE PRIOR TO INSTALLATION FOR APPROVAL. LIGHTING FIXTURES, DIFFUSERS, GRILLES, DUCTS, STRUCTURAL MEMBERS, COMPONENTS PROPOSED FOR USE PRIOR TO INSTALLATION FOR APPROVAL.

6. CONTRACTOR SHALL PROVIDE LABELS (WITH FLOW ARROWS) FOR ALL PIPING.

7. A SET OF APPROVED DRAWINGS SHALL BE MAINTAINED ON SITE AND ALL FIELD INSTALLATION IN MECHANICAL AREAS WITH NUMEROUS OBSTRUCTIONS KNOWN AND WRITTEN APPROVAL OF THE OWNER.

8. ALL PENETRATIONS THROUGH FIRE RESISTANCE RATED CONSTRUCTION SHALL BE PROVIDED A UL LISTED THROUGH PENETRATION FIRESTOP ASSEMBLY. THE RATING OF THE PENETRATED BARRIER.

9. CONTRACTOR SHALL SUBMIT SYSTEM CATALOG PRODUCT DATA SHEETS OF ALL MATERIALS AND EQUIPMENT.

10. CONTRACTOR SHALL PROVIDE LABELS (WITH FLOW ARROWS) FOR ALL PIPING. CONTRACTOR SHALL PROVIDE LABELS (WITH FLOW ARROWS) FOR ALL PIPING.

11. CONTRACTOR SHALL SUBMIT SYSTEM CATALOG PRODUCT DATA SHEETS OF ALL MATERIALS AND EQUIPMENT.

12. EQUIPMENT, MATERIALS, INSTALLATION WORKMANSHIP, EXAMINATION AND PERFORMANCE OF ALL ELECTRICAL SYSTEMS CONSTRUCTION SHALL BE PROVIDED A UL LISTED THROUGH PENETRATION FIRESTOP ASSEMBLY. THE RATING OF THE PENETRATED BARRIER.

13. CONTRACTOR SHALL SUBMIT SYSTEM CATALOG PRODUCT DATA SHEETS OF ALL MATERIALS AND EQUIPMENT.

14. CONTRACTOR SHALL PROVIDE LABELS (WITH FLOW ARROWS) FOR ALL PIPING. CONTRACTOR SHALL PROVIDE LABELS (WITH FLOW ARROWS) FOR ALL PIPING.

15. CONTRACTOR SHALL SUBMIT SYSTEM CATALOG PRODUCT DATA SHEETS OF ALL MATERIALS AND EQUIPMENT.

16. ALL MATERIALS AND EQUIPMENT SHALL BE NEW.

17. CONTRACTOR SHALL BE RESPONSIBLE FOR AVOIDING ALL CONFLICTS WITH LIGHTING FIXTURES, DIFFUSERS, GRILLES, DUCTS, STRUCTURAL MEMBERS, COMPONENTS PROPOSED FOR USE PRIOR TO INSTALLATION FOR APPROVAL.

18. CONTRACTOR SHALL PROVIDE LABELS (WITH FLOW ARROWS) FOR ALL PIPING. CONTRACTOR SHALL PROVIDE LABELS (WITH FLOW ARROWS) FOR ALL PIPING.

19. CONTRACTOR SHALL PROVIDE LABELS (WITH FLOW ARROWS) FOR ALL PIPING. CONTRACTOR SHALL PROVIDE LABELS (WITH FLOW ARROWS) FOR ALL PIPING.

20. PIPING SHALL NOT BE INSTALLED PASSING THROUGH ELECTRICAL ROOMS OR ANY OTHER ROOMS WHERE EXPOSURE TO HIGH TEMPERATURES IS A CONCERN.
1. REFER TO SHEET P001 FOR GENERAL PLUMBING NOTES.

2. UNLESS NOTED OTHERWISE, ALL EXISTING DOMESTIC WATER PIPING SHALL BE REMOVED.

3. UNLESS NOTED OTHERWISE, ALL EXISTING VENT PIPING SHALL BE REMOVED.

4. UNLESS NOTED OTHERWISE, ALL ABOVE SLAB SANITARY PIPING SHALL BE REMOVED. ALL EXISTING UNDER SLAB SANITARY SHALL BE ABANDONED. ANY UNDER SLAB SANITARY THAT INTERFERES WITH NEW WORK SHALL BE REMOVED.

5. EXISTING LIMITED AREA SPRINKLER SYSTEM SHALL BE REMOVED IN ITS ENTIRETY.

---

1. REMOVE EXISTING 2" DOMESTIC COLD WATER SERVICE INCLUDING METER AND BACKFLOW.

2. COORDINATE REMOVAL WITH CITY OF COLUMBUS DIVISION OF WATER.

3. REMOVE EXISTING HOSE BIBB AND PATCH WALL.

4. REMOVE EXISTING FLOOR DRAIN AND TRAP PRIMER.

5. REMOVE EXISTING ICE MAKER BOX.

6. REMOVE EXISTING PLUMBING FIXTURE.

7. REMOVE EXISTING LIMITED AREA SPRINKLER SYSTEM BACKFLOW DEVICE.

8. EXISTING LIMITED AREA SYSTEM IN BOOK DROP TO BE REMOVED.

9. CUT EXISTING SANITARY LINE AT THIS APPROXIMATE LOCATION. ALL DOWN STREAM UNDER SLAB SANITARY SYSTEM TO BE ABANDONED.
1. EXISTING WATER HEATER AND ALL ASSOCIATED PIPING SHALL BE REMOVED.
2. EXISTING DOMESTIC WATER LINES SHALL BE REMOVED.
3. EXISTING FLOOR DRAIN SHALL BE REMOVED.
4. EXISTING LIMITED AREA SPRINKLER SYSTEM SHALL BE REMOVED.
5. EXISTING VENT LINE SHALL BE REMOVED.

GENERAL SHEET NOTES
1. REFER TO SHEET P001 FOR GENERAL PLUMBING NOTES.
2. UNLESS NOTED OTHERWISE, ALL EXISTING DOMESTIC WATER PIPING SHALL BE REMOVED.
3. UNLESS NOTED OTHERWISE, ALL EXISTING VENT PIPING SHALL BE REMOVED.
4. UNLESS NOTED OTHERWISE, ALL ABOVE SLAB SANITARY PIPING SHALL BE REMOVED. ALL EXISTING UNDER SLAB SANITARY SHALL BE ABANDONED. ANY UNDER SLAB SANITARY THAT INTERFERES WITH NEW WORK SHALL BE REMOVED.
5. EXISTING LIMITED AREA SPRINKLER SYSTEM SHALL BE REMOVED IN ITS ENTIRETY.
EXISTING 4" SANITARY SERVICE TO REMAIN. APPROXIMATE INVERT ELEVATION = 96'-6"
NOTES:

F 1" 155 - 330 PDI CERTIFIED
E 1" 114 - 154 PDI CERTIFIED
B 1" 12 - 32 PDI CERTIFIED
A 3/4" 1 - 11 PDI CERTIFIED

RH1 NA NA NA 3/4" NA
WC 4" INTEGRAL 2" 1" NA
UR 2" INTEGRAL 1-1/2" 3/4" NA
FD 2, 3 or 4" 2, 3 or 4" 2, 3 or 4" NA NA
S 1-1/2" 1-1/2"x1-1/2" 1-1/2" 1/2" 1/2"
L 1-1/2" 1-1/4"x1-1/2" 1-1/2" 1/2" 1/2"

SRD1 FLOODING DAM-TYPE WITH 2-INCH CAST IRON WATER COLLAR, LARGE, GENERAL PURPOSE ROOF DRAIN WITH CAST IRON BODY, CAST IRON CLAMP WITH GRAVEL STOP, SUMP RECEIVER, UNDERDECK CLAMP. PROVIDE EXPANSION JOINT ON ALL BOTTOM OUTLET ROOF DRAINS.

WH1 FREEZEPROOF FAUCET, BRONZE CASING, HINGED, LOCKING POLISHED BRONZE (NICKEL) BOX AND COVER, SELF-DRAINING VACUUM BREAKER, INTEGRAL BACKFLOW PREVENTER, 3/4" SIZE. LENGTH AS REQUIRED. WOODFORD 67

MS1 DN1 DOWNSPOUT NOZZLE, POLISHED BRONZE BODY, NPT THREADS, WALL FLANGE WITH MOUNTING HOLES. SIZE OF PIPING ON PLANS INDICATES OUTLET SIZE. PROVIDE BIRD SCREEN. J.R. SMITH 1770

UR1 URINAL: SAME AS UR1 MOUNTED AT ADA HEIGHT AMERICAN STANDARD 6590.005

HB2 EXPOSED SUPPLY, 3/4-INCH BRASS CONSTRUCTION, WHEEL HANDLE, TEFLON IMPREGNATED PACKING, SOLDERED INLET. WOODFORD 24

FD2 CAST IRON BODY, 12-INCH-DIAMETER CAST IRON TRACTOR GRATE, SOLID FREE-STANDING SEDIMENT BUCKET. SIZE AS INDICATED ON PLANS. PROVIDE TRAFFIC IN SHOWER AREAS. SURESEAL INLINE FLOOR DRAIN TRAP SEALER MODEL (3") SS3009V OR (4") SS4009V. J.R. SMITH 2142

FD1 ADJUSTABLE CAST IRON BODY, ROUND NICKEL BRONZE STRAINER WITH VANDAL RESISTANT SCREWS. CAULK OUTLET. CONTRACTOR SHALL PROVIDE AND INSTALL SURESEAL Inline Floor Drain Trap Sealer Model (3") SS3009V OR (4") SS4009V. J.R. SMITH 2005-A

EWH1 208 1 6 50 24 A.O. SMITH DEL-50 SET TEMPERATURE TO 140 ºF.

S1

TAG LOCATION TOTAL VOLUME (GALLONS) INLET MANUFACTURER MODEL # NOTES

ELECTRICAL/PLANT HEATER SCHEDULE

EXPANSION TANK SCHEDULE

PUMP SCHEDULE

PLUMBING FIXTURE SCHEDULE
### General Notes:

1. All work must be performed in accordance with local, state, and national codes.

2. All work must be performed under the direction and control of the owner, contractor, architect and engineer.

3. All work must be performed in accordance with the latest edition of the American National Standard for the Protection of Buildings from Fire and the American National Standard for the Protection of Buildings from Smoke and Carbon Monoxide.

4. A metal firestop is required for the installation of electrical and mechanical systems.

5. All work must be performed in accordance with the latest edition of the American National Standard for the Protection of Buildings from Fire and the American National Standard for the Protection of Buildings from Smoke and Carbon Monoxide.

6. All work must be performed under the direction and control of the owner, contractor, architect and engineer.

7. All work must be performed in accordance with the latest edition of the American National Standard for the Protection of Buildings from Fire and the American National Standard for the Protection of Buildings from Smoke and Carbon Monoxide.

8. All work must be performed under the direction and control of the owner, contractor, architect and engineer.

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50. All work must be performed under the direction and control of the owner, contractor, architect and engineer.
MECHANICAL DEMO TYPES AND ABBREVIATIONS

<table>
<thead>
<tr>
<th>Abbreviation</th>
<th>Description</th>
</tr>
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<tbody>
<tr>
<td>CU</td>
<td>Air Cooled Condensing Unit</td>
</tr>
<tr>
<td>CUH</td>
<td>Cabinet Unit Heater</td>
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<tr>
<td>E</td>
<td>Exhaust Air Device</td>
</tr>
<tr>
<td>EF</td>
<td>Exhaust Fan</td>
</tr>
<tr>
<td>GF</td>
<td>Gas Fired Furnace</td>
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<tr>
<td>H</td>
<td>Humidifier</td>
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<tr>
<td>HRW</td>
<td>Heat Recovery Unit</td>
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<tr>
<td>R</td>
<td>Return Air Device</td>
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<tr>
<td>S</td>
<td>Supply Air Device</td>
</tr>
<tr>
<td>SH</td>
<td>Space Unit Heater</td>
</tr>
<tr>
<td>UH</td>
<td>Unit Heater</td>
</tr>
</tbody>
</table>

KEYNOTES

1. DEMOLISH ALL EXISTING DUCTWORK, REFRIGERANT PIPING, CONDENSATE PIPING, INSULATION, AIR DEVICES, SUPPORTS, HANGERS, AND APPURTENANCES. DEMOLISH ALL EXISTING HVAC EQUIPMENT INCLUDING UNIT HEATERS, EXHAUST FANS, GAS-FIRED FURNACES, HUMIDIFIERS, ENERGY RECOVERY UNITS, CONDENSING UNITS AND ALL ASSOCIATED CONTROLS AND APPURTENANCES. RECOVER ALL REFRIGERANTS PER CODES / STANDARDS. A PORTION OF EXISTING HVAC EQUIPMENT SHOWN ON PLAN. ANY EQUIPMENT NOT SHOWN DOES NOT RELIEVE CONTRACTOR FROM DEMOLITION. CONTRACTOR TO VERIFY IN FIELD FULL EXTENT OF DEMOLITION WORK.
**GENERAL SHEET NOTES**

A. REFER TO SHEET M001 FOR GENERAL NOTES, SYMBOLS, AND ABBREVIATIONS.

B. ALL EXPOSED BUTT WELDING IN CONSTRUCTION SHOWN BELOW 24" HIGH & 24" RADIUS.

C. MACHINERY FOUNDATION AND ITS SUPPORTING STRUCTURE PROVIDES THE BASE FOR ALL BUILDING SYSTEMS.

D. REFER TO M700 SERIES DRAWINGS FOR VRF SYSTEM CONFIGURATION AND PIPING SYSTEMS.

E. ALL EXPOSED FAN COIL UNITS AND DUCTWORK SHALL BE INSTALLED AS HIGH AS PRACTICAL BELOW STRUCTURE AND RUN HORIZONTALLY UNLESS OTHERWISE NOTED. ITEMS REQUIRING ACCESS LINED DUCTWORK FOR FIRST 35' OF RETURN DUCT FROM DOAS UNIT.

F. WALL MOUNTED AIR DEVICE MOUNTING HEIGHTS LISTED ON THE DRAWINGS IN PARENTHESIS.

G. ALL EXTERIOR PIPING SHALL BE PAINTED WHITE.

H. REFER TO M700 SERIES DRAWINGS FOR VRF SYSTEM CONFIGURATION AND PIPING SYSTEMS.

I. CONTRACTOR SHALL BE RESPONSIBLE FOR ENSURING THAT THE TAPS CAN BE WITNESSED AND ACCEPTED DURING THE INSPECTION.

**KEYNOTES**
**KEYNOTES**

1. Place FN of filters 6" x 6" in service ductwork to accommodate flexibility in filter use.
2. Scale all items as shown.
3. All items shown are in service and dirty air return ductwork.
4. A minimum of 24" of oil filter is required to allow for ample filter access.
5. All exterior ductwork shall be painted white.
6. All exposed fan coil units and ductwork shall be situated as high as practical below structure and run horizontally unless otherwise noted. Items requiring access shall be installed no more than 14'-0" above floor level.
7. Provide drip pans for all indoor units. Tie level sensor into BAS controls.
8. Provide field fabricated filter racks in return duct.
9. Place on 12" rail supports.
10. Provide field fabricated filter racks in return duct.

**GENERAL SHEET NOTES**

A. Refer to sheet M001 for general notes, symbols, and abbreviations.

B. All exposed ductwork is constructed using Galvalume or perforated double wall ductwork. Provide air distribution systems that will allow for easy access to fans and filter racks.

C. Provide double wall ductwork for first 35' of supply duct from DOAS unit. Provide lined ductwork for first 35' of return duct from DOAS unit.

D. Provide drip pans for all indoor units. Tie level sensor into BAS controls.

E. Provide drip pans for all indoor units. Tie level sensor into BAS controls.

F. Provide drip pans for all indoor units. Tie level sensor into BAS controls.

G. Provide drip pans for all indoor units. Tie level sensor into BAS controls.

H. Refer to M700 series drawings for VRF system configuration and piping systems.

I. Contractor shall be responsible for ensuring that filters can be installed without structural alteration or modification.

J. Provide a minimum of 24" of filter access to allow for ample filter access.

**DRAWING TITLE:**

**UPPER LEVEL PLAN - MECHANICAL DUCTWORK**
1 REFRIGERANT PIPING SHOWN SCHEMATICALLY AS SINGLE LINE FOR ALUMINUM. A REFRIGERANT PIPING INSTALLATION DIAGRAM SHALL BE PROVIDED. REFRIGERANT PIPING OUTDOORS SHALL BE JACKETED WITH INSULATION ACCORDING TO THE MANUFACTURER'S SPECIFICATIONS. ALL CONDENSATE DOWN TO NEAREST FLOOR DRAIN. MAKE INDIRECT VENT TO MEETING RM.

ROOM NUMBERS SHOWN A礼物 DISCREPANCY WITH THE MANUFACTURER'S SPECIFICATIONS. ALL CONDENSATE DOWN TO NEAREST FLOOR DRAIN. MAKE INDIRECT VENT TO MEETING RM.

ROOM NUMBERS SHOWN A gift DISCREPANCY WITH THE MANUFACTURER'S SPECIFICATIONS. ALL CONDENSATE DOWN TO NEAREST FLOOR DRAIN. MAKE INDIRECT VENT TO MEETING RM.

ROOM NUMBERS SHOWN A gift DISCREPANCY WITH THE MANUFACTURER'S SPECIFICATIONS. ALL CONDENSATE DOWN TO NEAREST FLOOR DRAIN. MAKE INDIRECT VENT TO MEETING RM.
4 Mount outdoor unit on equipment rails.

3 Provide with low ambient kit.

1 Provide with factory mounted disconnect.

9 Provide with disconnect switch, thermostat and summer fan switch.

7 Provide with unit mounted thermostat.

HRU-3B DAIKIN REYQ120AATJA 10.0 R410A 120.0 135.0 208 3 36.5 40 61

EBH-1 INDEECO BMI PEDESTAL 150 750 60 208 1 3.6 1, 8, 10

FC-20 DAIKIN FXMQ48PBVJU CONCEALED 4.00 1,380 205 48.0 35.8 54.0 208 1 3.4 15 2 24 X 12

FC-18 DAIKIN FXMQ48PBVJU CONCEALED 4.00 1,380 240 48.0 35.8 54.0 208 1 3.4 15 2 24 X 12

FC-14 DAIKIN FXTQ36TAVJUD VERTICAL 3.00 1,050 110 36.0 24.4 40.0 208 1 4.9 15 2 24 X 12

FC-03 DAIKIN FXZQ07TBVJU CASSETTE 0.60 305 10 7.5 5.5 8.5 208 1 0.3 15 1 24 X 12

FC-02 DAIKIN FXMQ15PBVJU CONCEALED 1.25 560 145 14.2 12.0 17.0 208 1 1.5 15 1 24 X 12

FC-32 DAIKIN FXZQ07TBVJU CASSETTE 0.60 305 25 7.5 5.5 8.5 208 1 0.3 15 1 24 X 12

FC-22 DAIKIN FXTQ54TAVJUD VERTICAL 4.50 1,800 400 54.0 39.3 60.0 208 1 8.6 15 2 24 X 12

FC-09 DAIKIN FXMQ12PBVJU CONCEALED 1.00 450 35 12.0 9.7 13.5 208 1 1.4 15 1 24 X 12

FC-04 DAIKIN FXMQ18PBVJU CONCEALED 1.50 635 65 18.0 15.6 20.0 208 1 1.6 15 1 24 X 12

FC-30 DAIKIN FXMQ48PBVJU CONCEALED 4.00 1,375 130 48.0 35.8 54.0 208 1 3.4 15 2 24 X 12

FC-25 DAIKIN FXMQ72MVJU CONCEALED 6.00 1,995 210 72.0 57.0 8.1.0 208 1 9.5 15 2 24 X 12

HRU-4 DAIKIN REYQ168AATJA 14.0 R410A 168.0 189.0 208 3 54.9 6.0 65

EF-1 ROOF GENERAL EXHAUST GREENHECK CUE-130-VG CENTRIFUGAL UPBLAST 1,295 0.50 ECM DIRECT 11.6 0.5 0.21 120 1 No No MOTORIZED No No No 100
4. Wiring and termination of the BAS to the interface shall be provided by the BAS manufacturer prior to startup. All points available through the communications interface shall be accessible through the BAS operator workstation. The BAS shall index the unit to start in advance of the scheduled occupied time, via an adaptive optimal start sequence. The unit shall automatically adjust itself for subsequent starts.

5. A BAS communications interface shall be provided by the unit manufacturer. These packaged unit controls shall sequence the DX cooling and gas heat to maintain a discharge air temperature setpoint. Factory controls shall also provide control for economizer, minimum outside air control, and exhaust fan control.

6. Enable dehumidification based on dew point. Dehumidification will be activated when the outside air temperature is below 45 degrees. During dehumidification, the refrigeration circuit controls the compressor(s) to maintain the cooling DAT setpoint. Factory controls shall also provide control for economizer, minimum outside air control, and exhaust fan control.

7. During the scheduled unoccupied times, the unit shall be off.

8. When a nearby Fan Coil zone drops more than 2 deg below the zone heating setpoint, activate Heating shall be disabled.

9. Morning Cool-Down

a. The discharge air setpoint shall be increased to 95° F.

b. The exhaust fan shall remain off. Energy recovery wheel shall be off.

c. The unit shall control the space temperature to the following adjustable space setpoints:
   1) Cooling - 85° F
   2) Monitoring the building's exterior lighting shall be controlled on a time schedule as defined at the operator workstation. The BAS shall index the unit to start in advance of the scheduled occupied time, via an adaptive optimal start sequence. The unit shall automatically adjust itself for subsequent starts.

10. Overload Reset

a. The discharge air temperature reset is to be programmed in such a manner that
   1) When the outside air temperature is above 65 deg, the cooling mode shall be enabled,
   2) On a call for heat, the unit shall modulate the gas heating section to maintain the discharge air temperature setpoint.
   3) The fan shall remain on, and unit shall cycle heating or cooling operation during scheduled occupied start time is reached.

b. The unit shall control the space temperature to the following adjustable space setpoints:
   1) Cooling - 85° F
   2) Heating - 76° F

11. Discharge Air Temperature (DAT) Reset

a. The discharge air temperature reset is to be programmed in such a manner that
   1) When the outside air temperature is above 45 deg, the heating mode shall be active.
   2) When the outside air temperature is below 45 deg, the heating mode shall be active.
   3) Damper limit switches shall be provided on the exhaust air dampers and shall be
   4) The unit shall control the space temperature to the following adjustable space setpoints:
   1) Cooling - 85° F
   2) Heating - 76° F
   3) The unit shall control the space temperature to the following adjustable space setpoints:
   1) Cooling - 85° F
   2) Heating - 76° F

12. System Points:

A. Factory mounted controls shall be provided by unit manufacturer. These packaged unit controls shall sequence the DX cooling and gas heat to maintain a discharge air temperature setpoint. Factory controls shall also provide control for economizer, minimum outside air control, and exhaust fan control.

B. A BAS communications interface shall be provided by the unit manufacturer. Each VRF unit shall be controlled on its own occupied/unoccupied time schedule as defined at the operator workstation. The BAS shall index the unit to start in advance of the scheduled occupied time, via an adaptive optimal start sequence. The unit shall automatically adjust itself for subsequent starts.

C. A motor current operated switch shall input fan status to a DDC panel for ALL exhaust fans.

D. Monitor Elevator Sump Pump level through the Building Automation System.

E. Data, and control points shall be accessible through the communications interface provided to the BAS operator workstation. Interior lighting shall be controlled directly by the lighting control system. Lighting shall be controlled on a time schedule as defined at the operator workstation. The BAS shall index the unit to start in advance of the scheduled occupied time, via an adaptive optimal start sequence. The unit shall automatically adjust itself for subsequent starts.

F. Monitor Elevator Sump Pump level through the Building Automation System.

G. Tubing shall be run from the panel to the building pressure pickup location and the outside air control, and exhaust fan control.

H. Building pressure setpoint shall be 0.02" (adjustable).

I. Building pressure pickup location shall be on the roof in a location and elevation to negate wind effects.

J. Space Temperature

a. The discharge air setpoint shall be increased to 95° F.

b. The exhaust fan shall remain off. Energy recovery wheel shall be off.

c. The unit shall control the space temperature to the following adjustable space setpoints:
   1) Cooling - 85° F
   2) Heating - 76° F

K. Discharge Air Temperature (DAT) Reset

a. The discharge air temperature reset is to be programmed in such a manner that
   1) When the outside air temperature is above 65 deg, the cooling mode shall be enabled,
   2) On a call for heat, the unit shall modulate the gas heating section to maintain the discharge air temperature setpoint.
   3) The fan shall remain on, and unit shall cycle heating or cooling operation during scheduled occupied start time is reached.

b. The unit shall control the space temperature to the following adjustable space setpoints:
   1) Cooling - 85° F
   2) Heating - 76° F

L. System Points:

A. Each unit’s occupancy shall be scheduled through the BAS based on the scheduling
   functions shall be locked out. If a heat wheel failure is detected, the heating mode shall
   be locked out when outside air temperature is above 45 deg.

B. Each unit’s occupancy shall be scheduled through the BAS based on the scheduling
   functions shall be locked out. If a heat wheel failure is detected, the heating mode shall
   be locked out when outside air temperature is above 45 deg.

C. Building Exterior Lighting shall be controlled on a time schedule as defined at the operator
   workstation. The BAS shall index the unit to start in advance of the scheduled occupied
   time, via an adaptive optimal start sequence. The unit shall automatically adjust itself for subsequent starts.

D. Building Exterior Lighting shall be controlled on a time schedule as defined at the operator
   workstation. The BAS shall index the unit to start in advance of the scheduled occupied
   time, via an adaptive optimal start sequence. The unit shall automatically adjust itself for subsequent starts.
### ABBREVIATIONS

<table>
<thead>
<tr>
<th>Abbreviation</th>
<th>Description</th>
</tr>
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<tbody>
<tr>
<td>RECPT</td>
<td>Receptacle</td>
</tr>
<tr>
<td>XFMR</td>
<td>Transformer</td>
</tr>
<tr>
<td>CCTV</td>
<td>Closed Circuit Television</td>
</tr>
<tr>
<td>INCD</td>
<td>Incandescent</td>
</tr>
<tr>
<td>AWG</td>
<td>American Wire Gauge</td>
</tr>
<tr>
<td>PWR</td>
<td>Power</td>
</tr>
<tr>
<td>WAP</td>
<td>Wireless Access Point</td>
</tr>
<tr>
<td>MCC</td>
<td>Motor Control Center</td>
</tr>
<tr>
<td>UNO</td>
<td>Unless Noted Otherwise</td>
</tr>
<tr>
<td>OCC</td>
<td>Occupancy</td>
</tr>
<tr>
<td>MCB</td>
<td>Main Circuit Breaker</td>
</tr>
<tr>
<td>MCA</td>
<td>Minimum Circuit Ampacity</td>
</tr>
<tr>
<td>HOA</td>
<td>Hand-Off-Automatic</td>
</tr>
<tr>
<td>GEN</td>
<td>Generator</td>
</tr>
<tr>
<td>MSB</td>
<td>Main Switchboard</td>
</tr>
<tr>
<td>MLO</td>
<td>Main Lugs Only</td>
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<tr>
<td>EMT</td>
<td>Electrical Metal Tubing</td>
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<tr>
<td>NAC</td>
<td>Notification Appliance Circuit</td>
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<tr>
<td>HPC</td>
<td>High Pressure Contact Switch</td>
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<tr>
<td>AFG</td>
<td>Above Finished Grade</td>
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<tr>
<td>PVC</td>
<td>Polyvinyl Chloride (Plastic Pipe)</td>
</tr>
<tr>
<td>CKT</td>
<td>Circuit</td>
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<tr>
<td>UTP</td>
<td>Unshielded, Twisted Pair</td>
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<tr>
<td>BPS</td>
<td>Bolted Pressure Switch</td>
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<tr>
<td>KVA</td>
<td>Kilovolt Ampere</td>
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<td>WH</td>
<td>WattHour</td>
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<tr>
<td>KW</td>
<td>Kilowatt</td>
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<tr>
<td>WP</td>
<td>Weatherproof, NEMA 3R UNO</td>
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<tr>
<td>CM</td>
<td>Construction Manager</td>
</tr>
<tr>
<td>(R)</td>
<td>Existing to be Relocated</td>
</tr>
<tr>
<td>(D)</td>
<td>Existing to be Demolished</td>
</tr>
<tr>
<td>(E)</td>
<td>Existing to Remain</td>
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<tr>
<td>AC</td>
<td>Alternating Current or Air Conditioner</td>
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<tr>
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<td>Horsepower</td>
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<tr>
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### LIGHTING SYMBOLS

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<tbody>
<tr>
<td>X</td>
<td>WP-EXTERIOR/EXTREME TEMP RATED</td>
</tr>
<tr>
<td>X</td>
<td>US-ULTRASONIC</td>
</tr>
<tr>
<td>X</td>
<td>BLANK-DUAL TECHNOLOGY</td>
</tr>
<tr>
<td>X</td>
<td>IR-PASSIVE</td>
</tr>
<tr>
<td>X</td>
<td>1-TWO BUTTON ON/OFF</td>
</tr>
<tr>
<td>X</td>
<td>P-PILOT LIGHT</td>
</tr>
<tr>
<td>X</td>
<td>OS-OCCUPANCY</td>
</tr>
<tr>
<td>X</td>
<td>TOGGLE</td>
</tr>
<tr>
<td>X</td>
<td>3-THREE WAY</td>
</tr>
<tr>
<td>X</td>
<td>4-FOUR WAY</td>
</tr>
<tr>
<td>X</td>
<td>BLANK-SINGLE POLE 20A, WITH DIRECTIONAL ARROWS</td>
</tr>
<tr>
<td></td>
<td>EMERGENCY DUAL FACE ILLUMINATED EXIT SIGN</td>
</tr>
<tr>
<td></td>
<td>DIRECTIONAL ARROWS</td>
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<td>CEILING MOUNTED ILLUMINATED EXIT SIGN WITH JUNCTION BOX</td>
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<td>EXIT SIGN</td>
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<td>EMERGENCY LIGHT</td>
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<tr>
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<td>STEP LIGHT</td>
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<td>REMOTE HEAD</td>
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<tr>
<td></td>
<td>TRACK LIGHTING HEAD</td>
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<tr>
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<td>WALL MOUNTED : REFER TO LUMINAIRE SCHEDULE</td>
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### POWER SYMBOLS

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<tr>
<td>X</td>
<td>1-TWO BUTTON ON/OFF</td>
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<tr>
<td>X</td>
<td>P-PILOT LIGHT</td>
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<tr>
<td>X</td>
<td>OS-OCCUPANCY</td>
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### ADDITIONAL INFORMATION

- **POWER PACK**
  - X=WP-EXTERIOR/EXTREME TEMP RATED
  - X=US-ULTRASONIC
  - X=BLANK-DUAL TECHNOLOGY
  - X=IR-PASSIVE
  - X=1-TWO BUTTON ON/OFF
  - X=P-PILOT LIGHT
  - X=OS-OCCUPANCY
  - X=TOGGLE
  - X=3-THREE WAY
  - X=4-FOUR WAY
  - X=BLANK-SINGLE POLE 20A, WITH DIRECTIONAL ARROWS
  - EMERGENCY DUAL FACE ILLUMINATED EXIT SIGN
  - DIRECTIONAL ARROWS
  - CEILING MOUNTED ILLUMINATED EXIT SIGN WITH JUNCTION BOX
  - EXIT SIGN
  - EMERGENCY LIGHT
  - STEP LIGHT
  - REMOTE HEAD
  - TRACK LIGHTING HEAD
  - WALL MOUNTED : REFER TO LUMINAIRE SCHEDULE

- **POWER SYMBOLS**
  - X=WP-EXTERIOR/EXTREME TEMP RATED
  - X=US-ULTRASONIC
  - X=BLANK-DUAL TECHNOLOGY
  - X=IR-PASSIVE
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  - STEP LIGHT
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  - TRACK LIGHTING HEAD
  - WALL MOUNTED : REFER TO LUMINAIRE SCHEDULE
1. EXISTING UTILITY POLE TO BE RELOCATED BY AEP, REFER TO NEW WORK SITE PLAN FOR LOCATION.

2. EXISTING POLE LIGHT TO BE REMOVED, REMOVE ALL WIRING BACK TO SOURCE.
PEOPLE LEVEL CEILING PLAN - LIGHTING

- SHEET KEYNOTES

- GENERAL SHEET NOTES

A. COORDINATE EXACT LOCATIONS OF DEVICE AND LUMINAIRES WITH ARCHITECTURAL REFLECTED GENERAL SHEET NOTES.
B. EMERGENCY EGRESS LIGHTING AND EXIT SIGNS SHALL BE CONNECTED TO LOCAL LIGHTING CIRCUIT PRIOR TO ROUGH-IN. LUMINAIRES SHALL NOT BE SUPPORTED BY CEILINGS.
C. PROVIDE ALL MOUNTING HARDWARE PER MANUFACTURER’S WRITTEN INSTRUCTIONS TO SUPPORT LUMINAIRES WITH 0-10V DIMMING DRIVERS SHALL HAVE 0-10V DIMMING CONTROLS WIRED TO LIGHTING CONTROL DEVICE, JUNCTION BOX OR POWER PACK, REGARDLESS OF CONTROLS (DIM OR NONDIM) DEFINED.
D. POWER PACKS AND SLAVE PACKS SHALL BE LOCATED WITHIN EACH ROOM ABOVE CEILING.
E. NO SHARED NEUTRALS - EACH CIRCUIT SHALL HAVE A DEDICATED NEUTRAL CONDUCTOR.
F. STRAIGHT LINES INDICATE LUMINAIRES CIRCUITED TO COMMON CONTROL AND CIRCUIT. ARC LINES INDICATE A COMMON BRANCH BUT SEPARATE CONTROLS CIRCUIT.
G. REFER TO SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.
H. UNLESS NOTED OTHERWISE, LUMINAIRES WITH 0-10V DIMMING DRIVERS SHALL HAVE 0-10V DIMMING CONTROLS.
I. UNLESS NOTED OTHERWISE, LIGHTING CONTROLS SHALL SERVE LUMINAIRES IN THE SAME SPACE.
J. COORDINATE INSTALLATION OF SUSPENDED LUMINAIRES WITH ACOUSTIC PANELS. REFER TO ARCHITECTURAL PLANS, PROVIDE BLOCKING/JUNCTION BOXES AS REQUIRED TO MOUNT LUMINAIRE. CONTRACTOR TO VERIFY MOUNTING HEIGHTS WITH ARCHITECTURAL ELEVATIONS PRIOR TO ROUGH-IN.
K. REFER TO PROVIDE BAFFLES BASED SHOWN ON ARCHITECTURAL PLANS.
L. EC TO PROVIDE UNISTRUT SUPPORT ABOVE GARAGE DOOR TO SUPPORT LUMINAIRE.
**SHEET KEYNOTES**

1. ROOM SCHEDULER. JUNCTION BOX MOUNTED AT 48" AFF, PROVIDE 1/2" CONDUIT STUBBED UP 3" ABOVE ACCESSIBLE CEILING.

2. 4" X 4" X 2-5/8" JUNCTION BOX IN WALL FOR POWER AND DATA CONNECTIONS TO SYSTEM BUILDING STRUCTURE.

3. HAND DRYER, 120V 1PH.

4. FLUSH VALVE LOW VOLTAGE TRANSFORMER POWER CONNECTION.

5. AUTOMATIC FAUCET.

6. FLEXIBLE RECEPTACLE PROVIDE WALL SWITCH FOR POWER SHUT OFF, REFER TO ARCHITECTURAL SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.

7. POWER CONNECTION FOR ANTI THEFT AND PEOPLE COUNTING DEVICES.

8. OVERHEAD DOOR OPERATOR. SIDE MOUNT ON WALL AT 120' A.F.F., PROVIDE LOW VOLTAGE CABLE TO ARCHITECTURAL SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.

9. OVERHEAD DOOR OPERATOR. SIDE MOUNT ON WALL AT 120' A.F.F.. PROVIDE LOW VOLTAGE CABLE WITH #24 AWG MINIMUM IN 1/2" CONDUIT TO SAFETY SENSORS AT LOWER EDGES OF DOOR. REFER TO CODED NOTES 26 AND 27. FIELD VERIFY PUSH BUTTONS. E.C. MAKE FINAL CONNECTIONS TO DOOR OPERATOR.

10. ACCESS TO WASH UP WITH #24 AWG MINIMUM IN 1/2" CONDUIT TO SAFETY SENSORS AT LOWER EDGES OF DOOR. REFER TO CODED NOTES 26 AND 27. FIELD VERIFY PUSH BUTTONS. E.C. MAKE FINAL CONNECTIONS TO Door OPERATOR.

11. ROOM SCHEDULER. JUNCTION BOX MOUNTED AT 48" AFF, PROVIDE 1/2" CONDUIT STUBBED UP 3" ABOVE ACCESSIBLE CEILING.

12. OVERHEAD DOOR OPERATOR. SIDE MOUNT ON WALL AT 120' A.F.F.. PROVIDE LOW VOLTAGE CABLE WITH #24 AWG MINIMUM IN 1/2" CONDUIT TO SAFETY SENSORS AT LOWER EDGES OF DOOR. REFER TO CODED NOTES 26 AND 27. FIELD VERIFY PUSH BUTTONS. E.C. MAKE FINAL CONNECTIONS TO Door OPERATOR.

13. ROOM SCHEDULER. JUNCTION BOX MOUNTED AT 48" AFF, PROVIDE 1/2" CONDUIT STUBBED UP 3" ABOVE ACCESSIBLE CEILING.

14. OVERHEAD DOOR OPERATOR. SIDE MOUNT ON WALL AT 120' A.F.F.. PROVIDE LOW VOLTAGE CABLE WITH #24 AWG MINIMUM IN 1/2" CONDUIT TO SAFETY SENSORS AT LOWER EDGES OF DOOR. REFER TO CODED NOTES 26 AND 27. FIELD VERIFY PUSH BUTTONS. E.C. MAKE FINAL CONNECTIONS TO Door OPERATOR.

15. RECEPTACLES FOR FISH TANK.

16. POWER CONNECTION FOR ANTI THEFT AND PEOPLE COUNTING DEVICES.

17. POWER CONNECTION FOR ANTI THEFT AND PEOPLE COUNTING DEVICES.

18. POWER CONNECTION FOR ANTI THEFT AND PEOPLE COUNTING DEVICES.

19. POWER CONNECTION FOR ANTI THEFT AND PEOPLE COUNTING DEVICES.

20. POWER CONNECTION FOR ANTI THEFT AND PEOPLE COUNTING DEVICES.

21. RECEPTACLES FOR FISH TANK.

22. POWER CONNECTION FOR ANTI THEFT AND PEOPLE COUNTING DEVICES.

23. POWER CONNECTION FOR ANTI THEFT AND PEOPLE COUNTING DEVICES.

24. POWER CONNECTION FOR ANTI THEFT AND PEOPLE COUNTING DEVICES.

25. OVERHEAD DOOR OPERATOR. SIDE MOUNT ON WALL AT 120' A.F.F.. PROVIDE LOW VOLTAGE CABLE WITH #24 AWG MINIMUM IN 1/2" CONDUIT TO SAFETY SENSORS AT LOWER EDGES OF DOOR. REFER TO CODED NOTES 26 AND 27. FIELD VERIFY PUSH BUTTONS. E.C. MAKE FINAL CONNECTIONS TO Door OPERATOR.
GENERAL SHEET NOTES

1. SHEET KEYNOTES
   1. 4' X 8' X 3/4" PLYWOOD BACKBOARD AROUND ENTIRE ROOM FOR DATA AND COMMUNICATION EQUIPMENT. PAINT WITH GRAY FIRE RETARDANT MARINE PAINT.
   2. 12" WIDE CABLE TRAY INSTALLED ABOVE RACK.

GENERAL SHEET NOTES

DETAIL

1/4" = 1'-0" REF: 1 / E201

ENLARGED PLAN - ELECTRICAL 134

GENERAL SHEET NOTES

NOT FOR CONSTRUCTION

ENLARGED PLANS - ELECTRICAL

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NOTES:

1. DEVICES SHOWN STACKED ALONG WALLS FALL IN THE ORDER OF LOWEST (CLOSEST TO WALL) TO HIGHEST (FURTHEST FROM WALL).

2. HEIGHTS SHOWN ARE TYPICAL UNLESS OTHERWISE NOTED ELSEWHERE ON DRAWINGS, SPECS OR IDENTIFIED IN APPLICABLE CODES.

3. VERTICAL DIMENSIONS ARE TO CENTER OF DEVICE.
## Luminaire Schedule

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<th>Type</th>
<th>Dimensions</th>
<th>Description</th>
<th>Finish</th>
<th>Options</th>
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<th>Driver(s)</th>
<th>Voltage</th>
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SHEET KEYNOTES

1. PROVIDE LSI ELECTRONIC TRIP CIRCUIT BREAKER WITH ARMS DEVICE TO ADJUST BREAKER SETTINGS TO REDUCE ARC FLASH INCIDENT ENERGY.

2. BOND NEUTRAL TO GROUND AT SERVICE ENTRANCE EQUIPMENT. PROVIDE GROUNDING ELECTRODE CONDUCTOR TO UL LISTED INTERSYSTEM GROUND BAR. REFER TO DETAIL X/E501.

3. PROVIDE BONDING JUMPERS FROM GROUND BAR TO EACH GROUNDING ELECTRODE IN ACCORDANCE WITH NEC ARTICLE 250. REFER TO DETAIL X/E501. PROVIDE GROUNDING BAR PER DETAIL X/E501.

4. PROVIDE 10' X 3/4" DIA. UL LISTED GROUND ROD(S) AS REQUIRED. REFER TO DETAIL X/E501.
1. 4-GANG FLOOR BOX FOR POWER AND DATA TO CONNECT TO SYSTEMS AND ELECTRICAL POWER SHEETS.
2. PROVIDE SINGLE PORT DATA CONNECTION TO HVAC CONTROL PANEL.
3. PROVIDE WIRELESS PANIC BUTTON DEVICE ONTO MOBILE STAFF CART FOR SECURITY.
4. PROVIDE 5' (3) 4" CONDUIT SLEEVES THROUGH WALL MOUNTED AT THE SAME HEIGHT AS THE LOCAL CABLE TRAY.
5. PROVIDE 8" W X 4" D WIRE MESH CABLE TRAY, MOUNTED AT 12'-6" AFF.
6. PROVIDE SINGLE PORT DATA CONNECTION TO WALL CONTROL PANEL.
7. PROVIDE SINGLE PORT DATA CONNECTION TO WALL CONTROL PANEL.
8. PROVIDE SINGLE PORT DATA CONNECTION TO WALL CONTROL PANEL.

**GENERAL SHEET NOTES**

- All data cabling shall be homed to storage/it 212. Provide patch panel.
- Provide seals around all conduits and all telecommunications cabling.
- Coordinate floor box locations with architectural furniture.
- Coordinate with furniture plans and electrical sheets.
- Provide (1) cat6 patch cord to each workstation.
- Provide 4-gang floor box for power and data to connect to systems and electrical power sheets.
- Provide single port data connection to wall control panel.
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- Provide single port data connection to wall control panel.
DETAIL

1. 84" H X 20" W X 30" D 4-POST RACK WITH EIA STANDARD 19" RACK RAILS. 45 RACK UNITS OF MOUNTING SPACE.

2. 6" W X 12" D X 84" H VERTICAL WIRE MANAGER ON EACH SIDE OF RACKS.

3. 24" L X 4" H TELECOMMUNICATIONS MAIN GROUNDING BUSBAR MOUNTED AT 18" AFF.

4. 3/4" THICK X 4' W X 8' L FIRE RESISTANT TELECOMMUNICATIONS PLYWOOD BACKBOARD ON PERIMETER WALLS.

5. 12" W LADDER RACK CABLE TRAY FOR TELECOMMUNICATIONS CABLING MOUNTED AT 10'-0" AFF.

6. PROVIDE (3) 4" CONDUIT SLEEVES FOR HORIZONTAL CABLING TO EXIT IT ROOM.

7. (2) 4" CONDUITS FOR BACKBONE CABLING FROM IT 132 TO SUPPORT 111 MOUNTED AT 10'-6" AFF, THEN STUB UP INTO THE SECOND FLOOR.

8. (2) 4" CONDUITS FOR BACKBONE CABLING FROM THE FLOOR BELOW, STUB UP 8" INTO ROOM. REFER TO FIRST FLOOR TELECOMMUNICATION PLAN FOR CONTINUATION OF CONDUIT.

9. PROVIDE WALL MOUNTED ACS PANEL WITH A SINGLE CAT 6 CABLE CONNECTION.