# VOLUME ISSUE: 01 OF: 01 Architecture

PROVIDE A FULL-SIZE SET OF LEGIBLE APPROVED CONSTRUCTION DOCUMENTS **PRINTED IN COLOR** FOR REVIEW BY INSPECTOR

PLAN CHANGES WILL **REQUIRE AN APPROVED REVISION** BEFORE INSPECTION CAN BE APPROVED

AT ALL TIMES DURING CONSTRUCTION, MAINTAIN REQUIRED EXITS, EXISTING STRUCTURAL ELEMENTS, FIRE PROTECTION AND SANITARY GUARDS PER **2015 IBC 3302.1**

This plan is reviewed to **IBC** but the existing building is NOT converted to **IBC**. The construction type listed is **UBC.** Occupancy group is **IBC.**

**SEPARATE FIRE ALARM PERMIT REQUIRED:** Due to the proposed work the general contractor is required to obtain the services of a fire alarm contractor to determine if a separate alarm permit is required. If it is determined that the spacing of the fire alarm devices is not in compliance, then a separate fire alarm permit is required. Approval of the documents is required prior to system installation or any request for inspection. A certificate of occupancy or final approval cannot be issued by the Building Division without this fire protection system. **2015 IFC, Section 105.7.6.**

**SEPARATE FIRE SPRINKLER PERMIT REQUIRED:** Due to the proposed work the general contractor is required to obtain the services of a fire sprinkler contractor to determine if a separate sprinkler permit is required. If it is determined that the spacing of the fire sprinkler heads is not in compliance, then a separate fire sprinkler permit is required. Approval of the documents is required prior to system installation or any request for inspection. A certificate of occupancy or final approval cannot be issued by the Building Division without this fire protection system. **2015 IFC, Section 105.7.1.**

Code violations that are found during inspection are required to be corrected. Permit issuance does not grant approval of a code violation.

Structural plan review is limited to a general survey for code compliance. No review is implied nor was undertaken to verify structural adequacy.

Field Inspection consultation is available upon request. Call 303-739-7420 to request a consultation

**Provide U.L. Class 2A10BC minimum rating fire extinguishers at a maximum 75'-0" travel distance prior to the Certificate of Occupancy issuance 2015 IFC Table 906.3[1] and 2013 NFPA 10**

**Consultation for fire extinguisher placement is available upon request. Call 303-739-7420 prior to final Life Safety inspection to verify proposed locations.**

Provide a sign stating "EXIT" in raised, visual characters and braille adjacent to each door in an area of refuge, an exterior area for assisted rescue, an exit stairway or ramp, an exit passageway and the exit discharge. **2015 IBC 1013.4**

**City of Aurora Building Division**
**Project:** *HCA ACADEMIC RESIDENCY OFFICE*
**Address:** *1400 S POTOMAC ST Unit 200*
**Occupancy Group:** *IBC B*
**Construction Type:** *UBC II-N-SPK*
**RSN:** *1652123*
**Permit:** *22-2201757-LT*

**City of Aurora Building Division**
**Reviewed for Code Compliance**
**Approved as Noted:** *Matt A.*
**Date:** *Aug 23, 2022*
2015 INTERNATIONAL CODES & 2020 NEC

**RSN:** *1652123*
**Permit #:** *22-2201757-LT*

DAVIS PARTNERSHIP ARCHITECTS

2901 Blake Street, Suite 100
Denver, CO 80205
303.861.8555

STATE OF COLORADO
J.D. DREYER
#50337
08.10.22
LICENSED ARCHITECT

Issue Date:

**08.10.2022**

Project:

**21086.02**

# HCA Academic Residency Offices

**1400 S. Potomac, Suite 200**
**Aurora, CO 80012**

Original Issuance:

# CONSTRUCTION DOCUMENTS



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## Sheet Index

| # | Name | Issuance | Sheet Issue Date | Revision Name | Revision Date |
|---|---|---|---|---|---|
| General | | | | | |
| G-000 | COVER | CONSTRUCTION DOCUMENTS | 08.10.2022 | | |
| G-001 | SHEET INDEX AND PROJECT DATA | CONSTRUCTION DOCUMENTS | 08.10.2022 | | |
| Life Safety | | | | | |
| LS-102 | LIFE SAFETY PLAN - LEVEL 02 | CONSTRUCTION DOCUMENTS | 08.10.2022 | | |
| Architectural Demolition | | | | | |
| AD-102 | LEVEL TWO - DEMOLISION PLAN | CONSTRUCTION DOCUMENTS | 08.05.2022 | | |
| Architectural | | | | | |
| A-102 | OVERALL FLOOR PLAN - LEVEL TWO | CONSTRUCTION DOCUMENTS | 08.10.2022 | | |
| A-400 | ENLARGED PLANS & INTERIOR ELEVATIONS | CONSTRUCTION DOCUMENTS | 08.10.2022 | | |
| A-590 | CASEWORK TYPES AND INTERIOR DETAILS | CONSTRUCTION DOCUMENTS | 08.10.2022 | | |
| A-600 | FINISH PLAN, LEGEND AND NOTES | CONSTRUCTION DOCUMENTS | 08.10.2022 | | |
| A-710 | INTERIOR PARTITIONS, DOOR SCHEDULE, TYPES, & DETAILS | CONSTRUCTION DOCUMENTS | 08.10.2022 | | |
| Plumbing | | | | | |
| P-001 | PLUMBING COVER SHEET | CONSTRUCTION DOCUMENTS | 08.10.2022 | | |
| P-102 | DEMO AND NEW PLUMBING PLANS | CONSTRUCTION DOCUMENTS | 08.10.2022 | | |
| P-301 | PLUMBING SCHEDULES AND DETAILS | CONSTRUCTION DOCUMENTS | 08.10.2022 | | |
| Mechanical | | | | | |
| M-001 | MECHANICAL COVER SHEET | CONSTRUCTION DOCUMENTS | 08.10.2022 | | |
| M-102 | LEVEL TWO DEMO AND NEW MECHANICALPLANS | CONSTRUCTION DOCUMENTS | 08.10.2022 | | |
| M-301 | MECHANICAL SCHEDULES | CONSTRUCTION DOCUMENTS | 08.10.2022 | | |
| Electrical | | | | | |
| E-001 | ELECTRICAL LEGEND AND NOTES | CONSTRUCTION DOCUMENTS | 08.10.2022 | | |
| E-002 | ENERGY CODE COMPLIANCE FORMS | CONSTRUCTION DOCUMENTS | 08.10.2022 | | |
| E-102 | LEVEL TWO - POWER PLANS - NEW AND DEMO | CONSTRUCTION DOCUMENTS | 08.10.2022 | | |
| E-202 | LEVEL TWO - LIGHTING PLANS - NEW AND DEMO | CONSTRUCTION DOCUMENTS | 08.10.2022 | | |

SEE ATTACHED ARCHITECTURAL SPECIFICATION MANUAL

This sheet of drawings has not been reviewed for code compliance.

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## GENERAL NOTES

1. IF DISCREPANCIES OCCUR BETWEEN DRAWINGS OR BETWEEN THE DRAWINGS AND SPECIFICATIONS, SUBMIT AN RFI FOR RESOLUTION.
2. DO NOT SCALE THE DRAWINGS. SUBMIT AN RFI IF CRITICAL DIMENSIONS DO NOT APPEAR ON THE DRAWINGS.
3. THE BUILDING EXTERIOR IS DEFINED BASED ON A SYSTEMS METHODOLOGY. REFER TO A-700 DRAWING SERIES FOR COMPONENTS THAT COMPRISE EACH SYSTEM.
4. PROVIDE ISOLATION BETWEEN ALL DISSIMILAR METALS WHERE THEY OCCUR TO PREVENT ELECTROLYTIC REACTION AND CORROSION.
5. VERIFY EQUIPMENT ROUGH-IN DIMENSIONS WITH MANUFACTURER FOR EQUIPMENT THAT IS EXISTING, REUSED, OR FURNISHED BY OWNER.

## DEFINITIONS

| | |
|---|---|
| ALIGN | TO ACCURATELY LOCATE FACE BASED ON ADJACENT ITEMS OR CONSTRUCTION |
| MAXIMUM | THE CONDITION MAY NOT VARY TO A DIMENSION GREATER THAN THAT SHOWN WITHOUT THE APPROVAL OF THE ARCHITECT |
| MINIMUM | THE CONDITION MAY NOT VARY TO A DIMENSION SMALLER THAN THAT SHOWN WITHOUT THE APPROVAL OF THE ARCHITECT |
| TYPICAL | THE CONDITION APPLIES TO SAME CONDITIONS THROUGHOUT UNLESS NOTED OTHERWISE |

## ALTERNATES

1. BASE BID: SHEET VINYL WITH INTEGRAL BASE IN NEW TOILET ROOM.
   ALTERNATE: TILE FLOOR WITH TILE BASE IN NEW TOILET ROOM.
2. BASE BID: PLASTIC LAMINATE COUNTERTOPS AT SINK.
   ALTERNATE: SOLID SURFACE COUNTERTOP AT SINK LOCATIONS.

## STANDARD ABBREVIATIONS LEGEND

| | |
|---|---|
| ACT | ACOUSTICAL CEILING TILE |
| ADD | ADDENDUM |
| AFF | ABOVE FINISHED FLOOR |
| AL | ALUMINUM |
| ALT | ALTERNATE |
| ALUM | ALUMINUM |
| ANOD | ANODIZED |
| APPROX | APPROXIMATE(LY) |
| ARCH | ARCHITECT or ARCHITECTURAL |
| ASI | ARCHITECT'S SUPPLEMENTAL INSTRUCTIONS |
| AUX | AUXILIARY |
| BLDG | BUILDING |
| BSMT | BASEMENT |
| BTWN | BETWEEN |
| CD | CONSTRUCTION DOCUMENTS or CONTRACT DOCUMENTS |
| CJ | CONSTRUCTION JOINT or CONTROL JOINT |
| CLG | CEILING |
| CLR | CLEAR |
| CMU | CONCRETE MASONRY UNIT |
| CONC | CONCRETE |
| CORR | CORRIDOR |
| DBL | DOUBLE |
| DEMO | DEMOLISH or DEMOLITION |
| DF | DRINKING FOUNTAIN |
| DIA | DIAMETER |
| DIM | DIMENSION or DIMENSIONAL |
| DW | DISHWASHER |
| DWG | DRAWING |
| EA | EACH |
| EJ | EXPANSION JOINT |
| ELEC | ELECTRICAL) |
| ELEV | ELEVATOR |
| EMER | EMERGENCY |
| EOS | EDGE OF SLAB |
| EQ | EQUAL |
| EQUIP | EQUIPMENT |
| EWC | ELECTRIC WATER COOLER |
| EXIST | EXISTING |
| FD | FLOOR DRAIN |
| FDC | FIRE DEPARTMENT CONNECTION |
| FE | FIRE EXTINGUISHER |
| FEC | FIRE EXTINGUISHER CABINET |
| FFE | FURNITURE, FIXTURES AND EQUIPMENT |
| FHC | FIRE HOSE CABINET |
| GA | GAUGE |
| GALV | GALVANIZED |
| HB | HOSE BIBB |
| HORIZ | HORIZONTAL |
| HT | HEIGHT |
| HVAC | HEATING, VENTILATION and AIR CONDITIONING |
| IBC | INTERNATIONAL BUILDING CODE |
| JAN | JANITOR |
| JT | JOINT |
| L | ANGLE |
| MAX | MAXIMUM |
| MECH | MECHANICAL |
| MEP | MECHANICAL, ELECTRICAL and PLUMBING |
| MEZZ | MEZZANINE |
| MIN | MINIMUM |
| MISC | MISCELLANEOUS |
| MO | MASONRY OPENING |
| NA | NOT APPLICABLE |
| NIC | NOT IN CONTRACT |
| NO | NUMBER |
| NOTE: | FOR ADDITIONAL ABBREVIATIONS; REFER TO SPECIFICATION 01 4200 FOR COMPLETE INDUSTRY STANDARD ABBREVIATION LIST |
| NRC | NOISE REDUCTION COEFFICIENT |
| NTS | NOT TO SCALE |
| OC | ON-CENTER |
| OPNG | OPENING |
| OPP | OPPOSITE |
| PERIM | PERIMETER |
| PR | PAIR or PROPOSAL REQUEST |
| PSF | POUNDS PER SQUARE FOOT |
| PSI | POUNDS PER SQUARE INCH |
| PT | PAINT(ED), POST-TENSIONED SLAB or PRESSURE TREATED |
| QTY | QUANTITY |
| R | RADIUS, RISER or THERMAL RESISTANCE |
| RCP | REFLECTED CEILING PLAN |
| RD | ROAD or ROOF DRAIN |
| RE | REFER TO or REFERENCE |
| REV | REVISE, REVISED or REVISION |
| RM | ROOM |
| RO | ROUGH OPENING |
| ROW | RIGHT-OF-WAY |
| RTU | ROOFTOP UNIT |
| SAN | SANITARY |
| SF | SQUARE FOOT (FEET) |
| SHT | SHEET |
| SIM | SIMILAR |
| SPEC | SPECIFICATION(S) |
| SQ | SQUARE |
| STC | SOUND TRANSMISSION CLASS |
| STL | STEEL |
| STOR | STORAGE |
| TO | TOP OF |
| TOC | TOP OF CONCRETE |
| TOP | TOP OF PARAPET |
| TOS | TOP OF STEEL |
| TOW | TOP OF WALL |
| TYP | TYPICAL |
| UNO | UNLESS NOTED OTHERWISE |
| VIF | VERIFY IN FIELD |
| W/ | WITH |
| W/O | WITHOUT |
| WD | WOOD |
| WP | WORKING POINT |
| WT | WEIGHT |

## ARCHITECTURAL SYMBOLS LEGEND

BUILDING SECTION REFERENCE — # / X-###

WALL SECTION REFERENCE — # / X-###

DETAIL ELEVATION REFERENCE — # / X-###

INTERIOR ELEVATION REFERENCE — (# / X-### / #)

EXTERIOR ELEVATION REFERENCE — # / # X-### # / #

DETAIL CALLOUT — # / X-### TYP.

DIMENSION STRING — 8'-2"

CENTERLINE

GRID LABEL - NEW — #

GRID LABEL - EXISTING — #

ELEVATION LABEL — LEVEL 1 100' - 0"

EXTERIOR SYSTEM TAG — PWS_MET_2.1

INTERIOR PARTITION TYPE TAG — Fn2PX

WINDOW TAG — W#

CURTAIN WALL TAG — C#

STOREFRONT TAG — S#

SPOT ELEVATION — EL = 100'-0"

DOOR TAG — ####X

ROOM TAG — ROOM NAME / ####

AREA TAG — AREA NAME 150 SF

CEILING HEIGHT TAG — 10'-10"

FINISH TAG — XX#

VIEW REFERENCE — 1 / A-101

KEYNOTE AND LEADER-TYPE 1 — F15

KEYNOTE AND LEADER-TYPE 2 — 07 2700 - SHEET WATERPROOFING

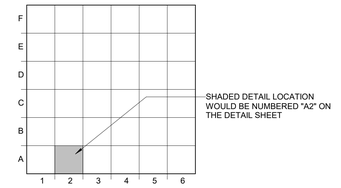
REVISION CLOUD AND TAG — 1

NORTH ARROW — N

GRAPHIC SCALE

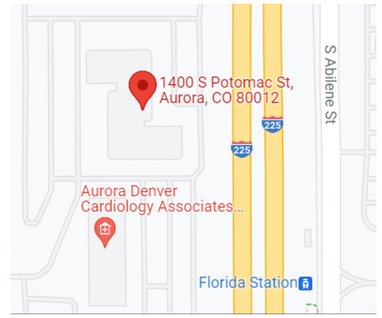
0' 4' 8' 16' 32' SCALE: 1/8" = 1'-0"

DETAIL NUMBERING BATTLESHIP GRID ORDER






## Location Map

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**Consultant(s)**

**Stamp**




| Issuance | Date |
|---|---|
| CONSTRUCTION DOCUMENTS | 08.10.2022 |

| Revisions | Date | No. |
|---|---|---|

**Project Information**

**HCA Academic Residency Offices**
1400 S. Potomac, Suite 200
Aurora, CO 80012

**Sheet Information**

Sheet Title:
SHEET INDEX AND PROJECT DATA

Sheet Number:
G-001

DPA Project: 21086.02

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**PROJECT DESCRIPTION: THIS PROJECT IS A 3,193 SF RENOVATION TO A(N) EXISTING SUITE IN AN EXISTING MULTI-TENANT BUILDING.**

**APPLICABLE BUILDING CODES:**

| | |
|---|---|
| 2015 | INTERNATIONAL BUILDING CODE |
| 2015 | INTERNATIONAL RESIDENTIAL CODE |
| 2015 | INTERNATIONAL MECHANICAL CODE |
| 2015 | INTERNATIONAL FUEL GAS CODE |
| 2015 | INTERNATIONAL PLUMBING CODE |
| 2015 | INTERNATIONAL EXISTING BUILDING CODE |
| 2015 | INTERNATIONAL ENERGY CONSERVATION CODE |
| 2020 | NATIONAL ELECTRICAL CODE |

| | IBC (2015) |
|---|---|
| CONSTRUCTION TYPE: | II-B |
| OCCUPANCY CLASSIFICATION: | B |
| LIFE SAFETY SYSTEMS: | SPRINKLERED |
| MAX. TRAVEL DISTANCE ALLOWED TO EXIT: | 300'-0" |
| NUMBER OF EXITS REQUIRED: | 2 |
| NUMBER OF EXITS PROVIDED: | 2 |
| OCCUPANCY (PROVIDE FORMULA): | BUSINESS (2,780 SF * 1:100) = 29 OCCUPANTS<br>EDUCATIONAL (308 SF * 1:20) = 16 OCCUPANTS<br>STORAGE (105 sf * 1:300) = 1 OCCUPANT<br>TOTAL: 46 OCCUPANTS |

PLUMBING FIXTURES IN SUITE:

| | | | |
|---|---|---|---|
| WATER CLOSETS REQUIRED: | 2 | LAVATORIES REQUIRED: | 2 |
| WATER CLOSETS PROVIDED: | 2 | LAVATORIES PROVIDED | 2 |
| SERVICE SINK REQUIERED: | 1 | | |
| SERVICE SINK PROVIDED: | 1 IN COMMON CORRIDOR | | |

NOTE:

RE: A-710 FOR PARTITION TYPES SCHEDULE, WALL RATINGS @ UL ASSEMBLIES AT ADDITIONAL INTERIOR PARTITIONS.

Code violations that are found during inspection are required to be corrected. Permit issuance does not grant approval of a code violation.

Provide a sign stating "EXIT" in raised, visual characters and braille adjacent to each door in an area of refuge, an exterior area for assisted rescue, an exit stairway or ramp, an exit passageway and the exit discharge. **2015 IBC 1013.4**

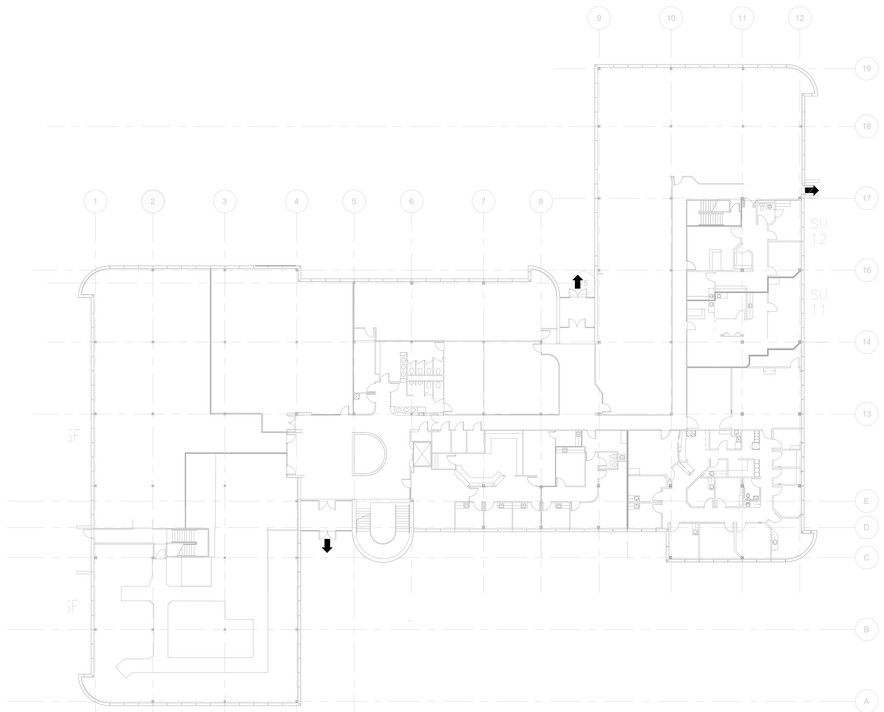
**Provide U.L. Class 2A10BC minimum rating fire extinguishers at a maximum 75'-0" travel distance prior to the Certificate of Occupancy issuance 2015 IFC Table 906.3[1] and 2013 NFPA 10**

**City of Aurora Building Division**
**Reviewed for Code Compliance**
**Approved as Noted: *Matt A.***
**Date: *Aug 23, 2022***
**2015 INTERNATIONAL CODES & 2020 NEC**






A1 **LIFE SAFETY PLAN - LEVEL 2**
1/16" = 1'-0"



A4 **LIFE SAFETY PLAN - LEVEL 1**
3/64" = 1'-0"

## LIFE SAFETY LEGEND

**LIFE SAFETY ANNOTATION SYMBOLS**

1 **LIFE SAFETY NOTES**

1 **INCIDENTAL ACCESSORY OCCUPANCY NOTES**

**FIRE SAFETY COMPONENTS** (COORDINATE FINAL LOCATION(S) WITH LOCAL FIRE DEPARTMENT)

FEC **FIRE EXTINGUISHER CABINET**

**EGRESS COMPONENTS**

EA## EXIT ACCESS TRAVEL DISTANCE **= 60'-0" < 250' MAX.**

OVERALL DIAGONAL DISTANCE **= 60'-0" (1/3 DIAGONAL = 20'-0")**

CS## EXIT ACCESS TRAVEL DISTANCE **= 60'-0" < 125' MAX.**

EXAM ACTUAL EXIT SEPARATION DISTANCE/STANCE **= 60'-0" < 125' MAX.**

0 EXIT ACCESS (OCCUPANT LOAD)

0 EXIT (OCCUPANT LOAD)

0 EXIT DISCHARGE (OCCUPANT LOAD)

## FIRE RATED WALL LEGEND

| | | FIRE DOOR ASSEMBLY RATINGS PER *IBC TABLE 716.1(2)* |
|---|---|---|
| NEW WALL | | |
| EXISTING WALL (HALFTONE) | | |

**[a] IBC TABLE 716.1(2)** - TWO DOORS, EACH WITH A FIRE PROTECTION RATING OF 1½ HOURS, INSTALLED ON OPPOSITE SIDES OF THE SAME OPENING IN A FIRE WALL, SHALL BE DEEMED EQUIVALENT TO ONE **3**HR FIRE DOOR.

**[b] IBC TABLE 716.1(2)** - FIRE-RESISTIVE-RATED GLAZING FOR OPENINGS AS A PART OF A FIRE BARRIER, FIRE WALL, FIRE PARTITION AND OR CORRIDOR WALL ARE PER **SECTION 716.1.2.3**

**[c] IBC 716.2.1.4** - FIRE DOOR ASSEMBLIES THAT SERVE AS SMOKE AND DRAFT CONTROL ASSEMBLIES SHALL BE TESTED IN ACCORDANCE WITH **UL 1784**.

**[d] IBC 716.2.6.4** - AUTOMATIC-CLOSING FIRE DOOR ASSEMBLIES SHALL BE SELF-CLOSING IN ACCORDANCE WITH **NFPA 80**.

**[e] IBC 509.4.2** - DOORS SHALL BE SELF- OR AUTOMATIC-CLOSING UPON DETECTION OF SMOKE PER **SECTION 716.2.6.6**. NO AIR TRANSFER OPENINGS AND UNDERCUTS IN EXCESS OF THE CLEARANCE PERMITTED PER **NFPA 80**. WALLS SURROUNDING THE INCIDENTAL USE SHALL NOT HAVE AIR TRANSFER OPENINGS UNLESS PROVIDED WITH SMOKE DAMPERS PER **SECTION 710.8**.

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**Consultant(s)**

**Stamp**

STATE OF COLORADO
J.D. DREYER
203337
08.22.22
LICENSED ARCHITECT

| Issuance | Date |
|---|---|
| CONSTRUCTION DOCUMENTS | 08.10.2022 |

| Revisions | Date | No. |
|---|---|---|
| BLG 1 | 08.22.2022 | 1 |

**Project Information**

**HCA Academic Residency Offices**
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Aurora, CO 80012

**Sheet Information**

Sheet Title:
LIFE SAFETY PLAN - LEVEL 02

Sheet Number:
LS-102

DPA Project: 21086.02

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8/23/2022 2:40:23 PM

Code violations that are found during inspection are required to be corrected. Permit issuance does not grant approval of a code violation.

AT ALL TIMES DURING CONSTRUCTION, MAINTAIN REQUIRED EXITS, EXISTING STRUCTURAL ELEMENTS, FIRE PROTECTION AND SANITARY GUARDS PER **2015 IBC 3302.1**

City of Aurora Building Division
Reviewed for Code Compliance
Approved as Noted: *Matt A.*
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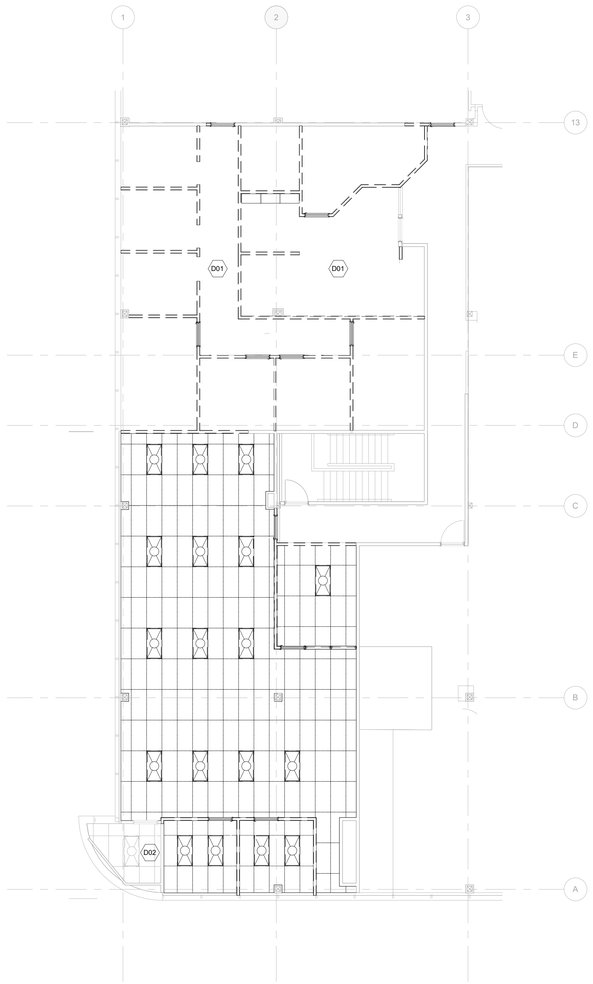
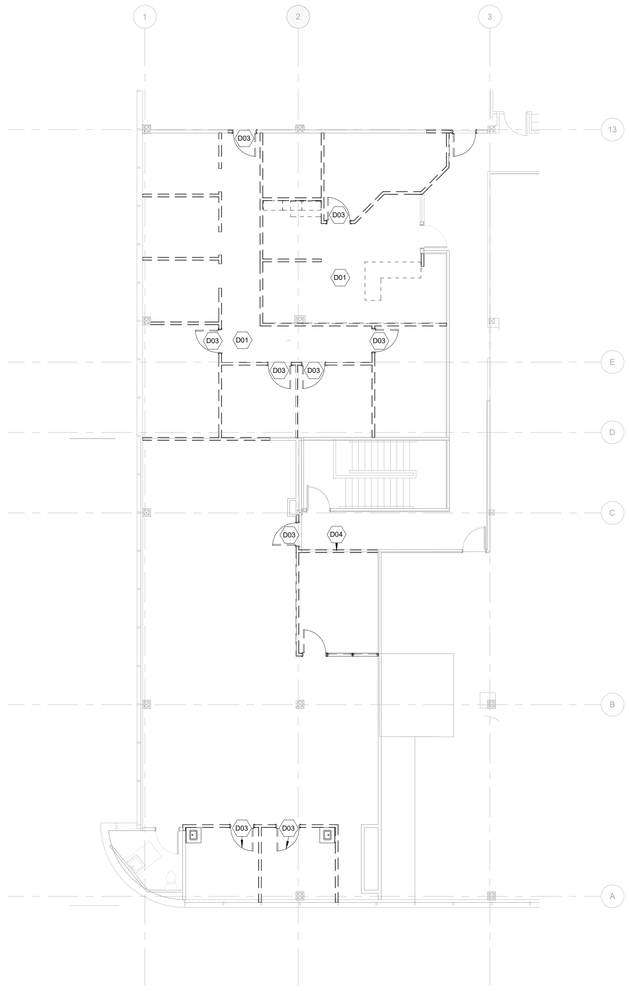
2015 INTERNATIONAL CODES & 2020 NEC




A2 **LEVEL 2 - DEMO REFLECTED CEILING PLAN**
1/8" = 1'-0"




A4 **LEVEL 2 - DEMO FLOOR PLAN**
1/8" = 1'-0"

## Demolition General Notes

1. COVER AND PROTECT EXISTING WINDOW SHADES DURING CONSTRUCTION. VERIFY ALL ARE IN PROPER WORKING ORDER AND NOT DAMAGED.
2. DEMO ALL FLOORING AND ASSOCIATED BASE, FLOOR TO BE PREPPED FOR NEW FINISHES.
3. PATCH AND REPAIR ALL PLASTIC LAMINATE WINDOW SILLS.
4. CONTRACTOR SHALL COORDINATE WITH THE OWNER TO IDENTIFY AND TO PROTECT EXISTING STRUCTURE, ELECTRICAL/DATA/TELECOM SYSTEMS, UTILITIES, SURFACES AND FINISHES TO REMAIN. ALL SYSTEMS DAMAGED BY CONTRACTOR ARE TO BE REPAIRED BY CONTRACTOR.
5. WHENEVER EXISTING UTILITIES MUST BE REMOVED: EXPOSED OPENINGS IN FLOORS OR WALLS ARE TO BE PATCHED TO MATCH ADJOINING CONSTRUCTION. EXISTING SUPPLY AND WASTE PIPING ARE TO BE CUT AND CAPPED BELOW FINISHED SURFACES.
6. PROVIDE ELECTROLYTIC PROTECTION BETWEEN ALL DISSIMILAR METALS WHERE THEY OCCUR TO PREVENT ALL MOUNTED ASSEMBLIES REGARDLESS OF WHETHER EQUIPMENT OR ASSEMBLY IS NEW OR RELOCATED.
7. PATCH AND REPAIR EXISTING WALLS FOR NEW FINISH IN AREAS OF SCOPE OF CONSTRUCTION.

## Demo Legend

- EXISTING WALL/ PARTITION TO BE REMOVED
- EXISTING WALL/ PARTITION TO REMAIN
- EXISTING PLUMBING FIXTURES TO BE REMOVED
- EXISTING DOOR OR WINDOW, FRAME AND HARDWARE TO BE REMOVED
- EXISTING DOOR OR WINDOW, FRAME AND HARDWARE TO BE REMAIN
- EXISTING LIGHTING TO REMAIN
- EXISTING LIGHTING TO BE REMOVED

## Keynotes

### KEYNOTE LEGEND (DEMO)

| | |
|---|---|
| D01 | DEMO INFORMATION NOT AVAILABLE, GC TO FIELD VERIFY CURRENT CONDITIONS |
| D02 | EXISTING CEILING AND LIGHTING TO REMAIN |
| D03 | DEMO AND SALVAGE DOOR AND DOOR FRAME FOR REUSE OR RETURN TO OWNER STOCK |
| D04 | DEMO AND SALVAGE EXISTING FIRE EXTINGUISHER CABINET FOR REINSTALL IN A NEW LOCATION |

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**Project Information**

**HCA Academic Residency Offices**
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**Sheet Information**

Sheet Title:
LEVEL TWO - DEMOLISION PLAN

Sheet Number:
AD-102

DPA Project: 21086.02

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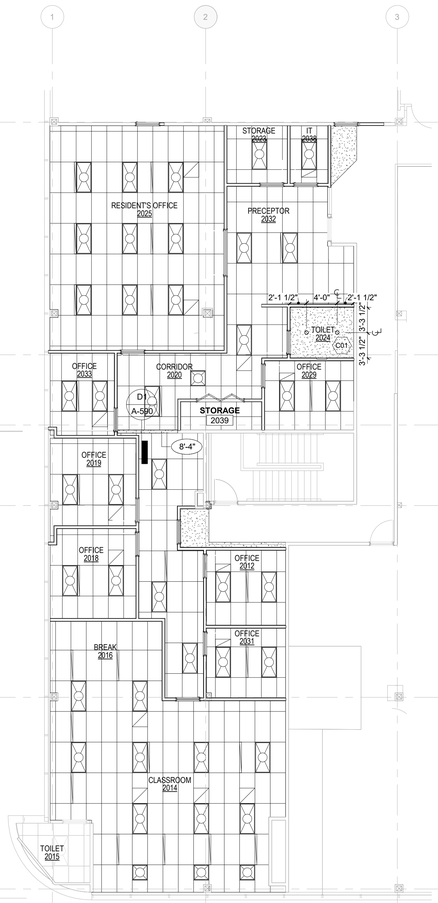
8/9/2022 12:48 PM

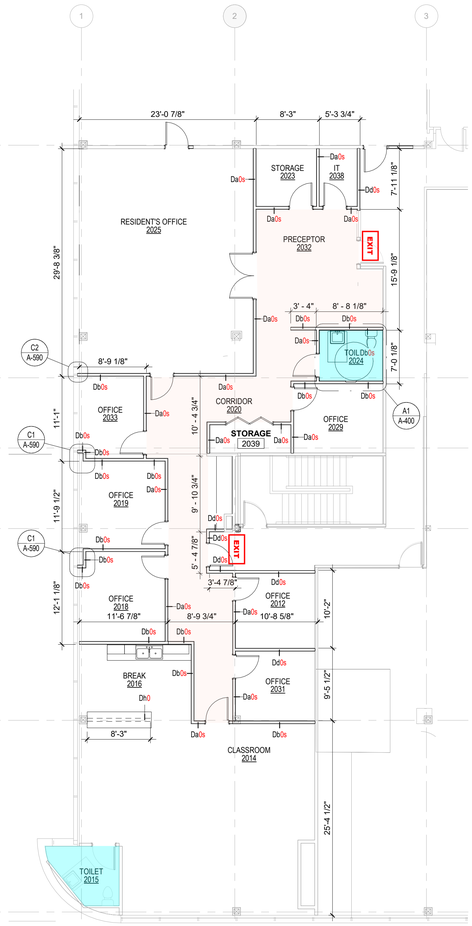
Code violations that are found during inspection are required to be corrected. Permit issuance does not grant approval of a code violation.

Provide a sign stating "EXIT" in raised, visual characters and braille adjacent to each door in an area of refuge, an exterior area for assisted rescue, an exit stairway or ramp, an exit passageway and the exit discharge. **2015 IBC 1013.4**

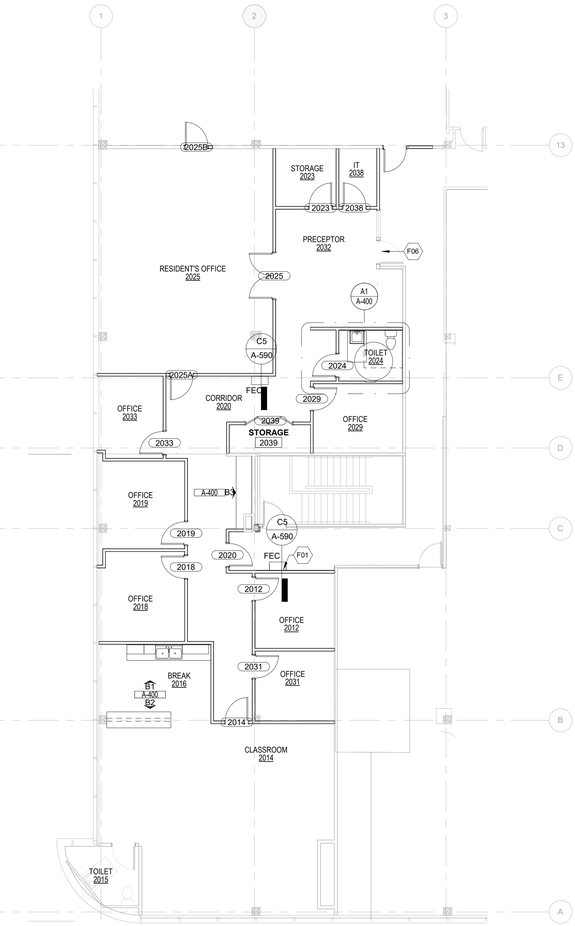
City of Aurora Building Division
Reviewed for Code Compliance
Approved as Noted: *Matt A.*
Date: *Aug 23, 2022*
2015 INTERNATIONAL CODES & 2020 NEC




A1 **LEVEL 2 - REFLECTED CEILING PLAN**
1/8" = 1'-0"




A2 **LEVEL 2 - DIMENSION PLAN**
1/8" = 1'-0"




A4 **LEVEL 2 - ANNOTATION PLAN**
1/8" = 1'-0"

## Reflected Ceiling Plan General Notes

1. FINISHED CEILING HEIGHT IS 8'-6" U.N.O.
2. ALL DIMENSIONS ARE TO FINISHED FACE OF PARTITION OR SOFFIT AND CENTERLINE OF CEILING MOUNTED SUPPORT U.N.O.
3. ALLOW FOR 1" DEFLECTION AT PARTITION HEAD.
4. DIMENSIONS FROM STRUCTURAL ELEMENTS ARE TO CENTERLINE OF COLUMNS AND BEAMS.
5. LOCATE SPRINKLER HEADS TO WALL AND CEILING LAYOUT PER NFPA - 13. REFER TO MECHANICAL SPECIFICATIONS AND DRAWINGS FOR ADDITIONAL DIRECTION. CENTER SPRINKLER HEAD IN TILE.
6. PROVIDE ACCESS PANELS WHERE REQUIRED TO PROVIDE ACCESS TO EQUIPMENT. REFER TO MECHANICAL AND ELECTRICAL DRAWINGS AND SPECIFICATIONS. COORDINATE LOCATIONS WITH ARCHITECT.
7. PROVIDE FACTORY FINISH ON ALL MECHANICAL GRILLES AND DIFFUSERS. PAINT ALL ACCESS PANELS TO MATCH ADJACENT SURFACES.
8. ALL AIR DIFFUSERS, RETURN AIR GRILLS AND THE LIKE ARE SHOWN ON ARCHITECTURAL REFLECTED CEILING PLANS FOR REFERENCE AND PLACEMENT IN PANEL CEILINGS. SEE MECHANICAL DRAWINGS FOR ACTUAL QUANTITIES. COORDINATE WITH ELECTRICAL AND MECHANICAL INFORMATION AND DETAILS.
9. HALFTONED SYMBOLS INDICATE ELEMENTS NOT INCLUDED IN TENANT SCOPE.
10. PROVIDED CONCEALED SPRINKLER HEADS WHERE LOCATED AT GYPSUM BOARD CEILINGS AND SEMI-RECESSED HEADS AT LAY-IN TILE.
11. PROVIDE NEW EXIT AND FIRE ALARM SIGNS PER BUILDING STANDARD, THROUGHOUT UNO.

## Reflected Ceiling Plan Symbol Legend

- MECHANICAL DIFFUSER (SUPPLY)
- MECHANICAL DIFFUSER (RETURN)
- EXIT SIGN
- NEW GYPSUM BOARD CEILING
- EXISTING GYPSUM BOARD CEILING
- NEW 2X4 ACOUSTICAL CEILING TILE
- 10'-10" CEILING HEIGHT ABOVE FINISHED FLOOR
- RECESSED DOWNLIGHT
- NEW LIGHT FIXTURES

## Reflected Ceiling Plan Keynotes

### KEYNOTE LEGEND (RCP)

| | |
|---|---|
| C01 | EPT1 AT TOILET GYP. CEILINGS, TYP. |

## Plan General Notes

1. DOOR ASSEMBLIES IN INTERIOR PARTITIONS ARE 6" FROM FINISHED FACE OF ADJACENT PARTITION TO EDGE OF DOOR LEAF. UNLESS NOTED OTHERWISE.
2. PROVIDE FIRESTOPPING AND FIRE SEALS AT ALL PENETRATIONS THROUGH THE FIRE RATED ASSEMBLY. PROVIDE FIRE RATED SLIP JOINT AT ALL FIRE RATED WALL ASSEMBLIES.
3. DIMENSIONS ON ARCHITECTURAL DRAWINGS LOCCATING STRUCTUAL ELEMENTS ARE TO CENTER LINE OF COLUMNS AND BEAMS, U.N.O.
4. EXISTING WALLS IDENTIFIED WITH A NEW PARTITION IDENTIFIER INDICATES THAT THE EXISTING PARTITION IS TO BE IMPROVED IN ACCORDANCE WITH THE PARTITIONS TYPE INDICATED.
5. PROVIDE 6" WALL FRAMING AT ALL ELECTRICAL PANELS. THIS NOTE SUPERCEDES PARTITION IDENTIFIERS WITH CONFLICTING DESCRIPTION. EXTEND TO NEAREST INSIDE OR OUTSIDE CORNER. SEE ELECTRICAL DRAWINGS FOR LOCATIONS.
6. EXISTING ASSEMBLIES AND STRUCTURAL ELEMENTS FROM CORE AND SHELL CONSTRUCTION DOCUMENTS ARE SHOWN HALFTONED FOR REFERENCE ONLY.
7. ALL LOW VOLTAGE BY TENANT, CONTRACTOR TO PROVIDE EMPTY CONDUIT AND BACK BOXES AS REQUIERED PER ELECTRICAL DRAWINGS.
8. PATCH, REPAIR, & SKIM COAT ALL EXISTING WALLS FOR NEW FINISH.
9. FIRE EXTINGUISHER CABINETS ARE TO MATCH BUILDING STANDARD.
10. G.C. TO PROVIDE AN ALLOWANCE FOR A MOISTURE MITIGATION SYSTEM FOR ALL CONCRETE FLOORS THAT ARE TO RECIEVE NEW FLOORING.
11. FURNITURE INDICATED ON PLANS IS FOR REFERENCE ONY AND ARE NOT PROVIDED UNDER THE CONTRACT.
12. FURRING AROUND STRUCTURAL COLUMNS ARE TO BE INTERIOR PARTITIONS CI0 UNLESS NOTED OTHERWISE.
13. PROVIDE IN-WALL STEEL TUBE COUNTERTOP SUPPORTS AT NEW LOCATIONS. RE: CASEWORK DETAILS.

## Plan Legend

- EXISTING INTERIOR PARTITION WALL OR SHAFT WALL TO REMAIN. REFER TO LIFE SAFETY PLANS FOR EXTENT OF FIRE RATED AND SHAFT WALLS.
- NEW INTERIOR PARTITION WALL. REFER TO PARTITION SCHEDULE AND TYPES ON A-710 FOR CONSTRUCTION AND DETAILING.
- EXISTING DOOR TO REMAIN
- NEW DOOR

## Plan Keynotes

### KEYNOTE LEGEND (CONSTRUCTION)

| | |
|---|---|
| F01 | REINSTALL SALVAGED FIRE EXTINGUISHER CABINET |
| F06 | EXISTING ENTRY TO BE CHANGED TO A CIPHER LOCK |

DAVIS PARTNERSHIP ARCHITECTS
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**Consultant(s)**

**Stamp**

STATE OF COLORADO
J.D. DREYER
203337
08.10.22
LICENSED ARCHITECT

| Issuance | Date |
|---|---|
| CONSTRUCTION DOCUMENTS | 08.10.2022 |

| Revisions | Date | No. |
|---|---|---|

**Project Information**

**HCA Academic Residency Offices**
1400 S. Potomac, Suite 200
Aurora, CO 80012

**Sheet Information**

Sheet Title:
OVERALL FLOOR PLAN - LEVEL TWO

Sheet Number:
A-102

DPA Project: 21086.02

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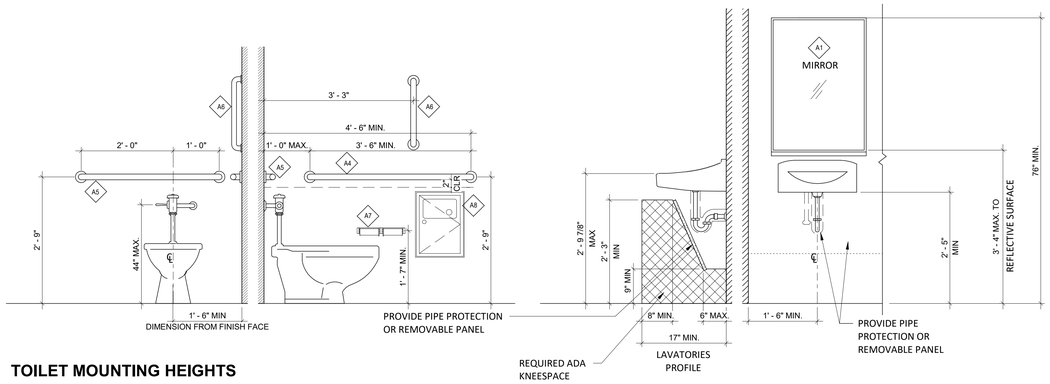
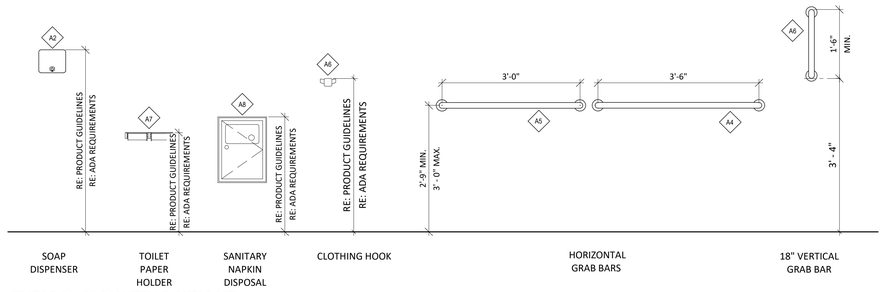
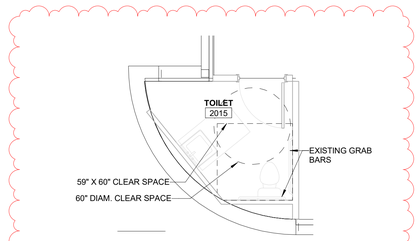
8/9/2022 1:23:43 PM



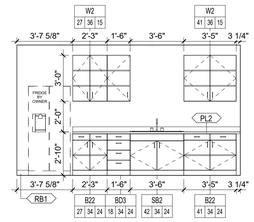

## TOILET MOUNTING HEIGHTS



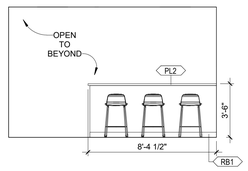

## TYPICAL MOUNTING HEIGHT



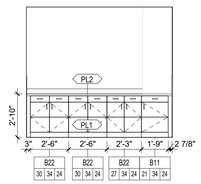

## C3 TOILET 2015 - ENLARGED PLAN
1/4" = 1'-0"



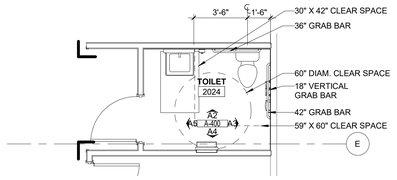

## B1 BREAK 2016 - N ELEV.
1/4" = 1'-0"



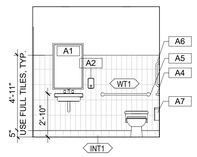

## B2 BREAK 2016 - S ELEV.
1/4" = 1'-0"



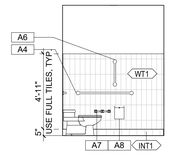

## B3 CORRIDOR 2020 - E ELEV.
1/4" = 1'-0"



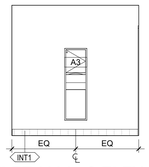

## A1 TOILET 2024 - ENLARGED PLAN
1/4" = 1'-0"



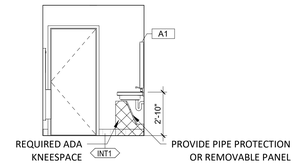

## A2 TOILET 2024 - N ELEV.
1/4" = 1'-0"




## A3 TOILET 2024 - E ELEV.
1/4" = 1'-0"




## A4 TOILET 2024 - S ELEV.
1/4" = 1'-0"




## A5 TOILET 2024 - W ELEV.
1/4" = 1'-0"

| ACCESSORY SCHEDULE | | | | |
|---|---|---|---|---|
| TYPE | DESCRIPTION | MFR. | MODEL | COMMENTS |
| A1 | CHANNEL FRAME MIRROR | BOBRICK | | |
| A2 | SURFACE MOUNTED SOAP DISPENSER | BOBRICK | B-2111 | |
| A3 | SEMI-RECESSED CONVERTIBLE COMBINATION TOWEL AND WASTE UNIT | BOBRICK | B-3942 | |
| A4 | 42IN GRAB BAR | BOBRICK | | |
| A5 | 36IN GRAB BAR | BOBRICK | | |
| A6 | 18IN VERTICAL GRAB BAR | BOBRICK | | |
| A7 | DOUBLE-ROLL TOILET TISSUE DISPENSER | BOBRICK | B-6867 | |
| A8 | SURFACE MOUNTED SANITARY NAPKIN DISPOSAL | BOBRICK | B-270 | |

Code violations that are found during inspection are required to be corrected. Permit issuance does not grant approval of a code violation.

This plan was reviewed for adopted codes and NOT for compliance with **ADA** or **FHA** accessibility requirements. Contact 800-949-4232 (**ADA**) and 303-894-7822 x 325 (**FHA**) for federal accessibility requirements that apply to your project.

Install Plumbing Fixtures and toilet accessories **per chapter 6 ICC/ANSI A117.1 - 2 009**

City of Aurora Building Division
Reviewed for Code Compliance
Approved as Noted: *Matt A.*
Date: *Aug 23, 2022*
2015 INTERNATIONAL CODES & 2020 NEC

### Interior Elevation General Notes

A. 000 EQUIPMENT TAG. SEE Q-121.A & Q-121.B FOR EQUIPMENT SCHEDULE

B. ? FINISH TAG. SEE I-600 FOR FINISH LEGEND AND NOTES

C. LIGHTING TAG. SEE AL SERIES FOR ARCHITECTURAL LIGHTING

### Casework Legend

**CASEWORK TAG:**

B0DG2 — STYLE CODE
36 36 24
NOMINAL DEPTH
NOMINAL HEIGHT
NOMINAL WIDTH

**STYLE CODES:**

**BASE CABINETS:**
B BASE CABINET WITH DOORS & DRAWERS
BC BASE CORNER CABINET WITH DOORS & DRAWERS
BD BASE CABINET WITH STACKED DRAWERS
BE BASE END CABINET WITH DOORS & DRAWERS
BF BASE FILE CABINET
BO OPEN BASE CABINET
BOD OPEN BASE CABINET WITH DRAWERS
BV BASE CABINET WITH VIAL DRAWERS
BWR WASTE RECEPTACLE CABINET WITH ROUND OPENING
BWS WASTE RECEPTACLE CABINET WITH SLOT OPENING

**TALL CABINETS:**
T TALL CABINET WITH SINGLE DOORS
TD TALL CABINET WITH DOUBLE (STACKED) DOORS
TDT TALL CABINET WITH DOORS ON TOP AND OPEN BOTTOM
TDB TALL CABINET WITH DOORS ON BOTTOM AND OPEN TOP
TM TALL MICROWAVE OVEN CABINET
TO OPEN TALL CABINET

**SINK CABINETS:**
SA SINK APRON WITHOUT SIDE PANELS
SAP SINK APRON WITH SIDE PANELS
SA-A SINK APRON WITH REMOVABLE ADA APRON
SAP-A SINK APRON WITH SIDE PANELS AND REMOVABLE ADA APRON
SB SINK BASE CABINET

**WALL CABINETS:**
W WALL CABINET WITH DOORS
WF WALL CABINET WITH FILE DIVIDERS
WM WALL MICROWAVE OVEN CABINET
WO OPEN WALL CABINET

### Casework General Notes

1. REFER TO ELEVATIONS FOR DOOR, DRAWER, VALANCE, AND SHELF CONFIGURATIONS.
2. REFER TO INTERIOR FINISH DRAWINGS FOR FINISH INFORMATION.
3. VERIFY ALL GROMMET LOCATIONS WITH OWNER'S REPRESENTATIVE. COORDINATE ALL EQUIPMENT PLANS AND ELECTRICAL DOCUMENTS FOR LOCATION OF ALL REQUIRED GROMMETS.
4. FIELD VERIFY DIMENSIONS OF WALL LAYOUTS BEFORE FABRICATION OF CASEWORK.
5. PROVIDE FINISHED END PANELS AT ALL EXPOSED SIDES OF CASEWORK.
6. ALL SOLID SURFACE COUNTERTOPS TO HAVE EASED EDGE AND BE FINISHED ON ALL EXPOSED SIDES AND BOTTOM.

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**Consultant(s)**

**Stamp**

STATE OF COLORADO
J.D. DREWER
20337
08.22.22
LICENSED ARCHITECT

| Issuance | Date |
|---|---|
| CONSTRUCTION DOCUMENTS | 08.10.2022 |

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|---|---|---|
| BLG 1 | 08.22.2022 | 1 |

**Project Information**

**HCA Academic Residency Offices**
1400 S. Potomac, Suite 200
Aurora, CO 80012

**Sheet Information**

Sheet Title:
ENLARGED PLANS & INTERIOR ELEVATIONS

Sheet Number:
A-400

DPA Project: 21086.02

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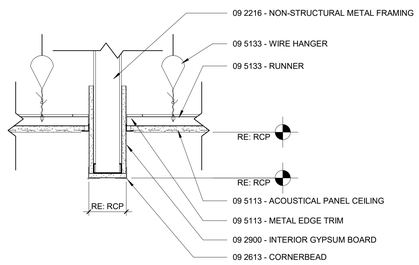
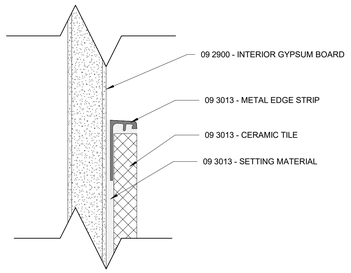



D1 **SECTION - HEADER DETAIL**
1 1/2" = 1'-0"




D2 **DETAIL - OUTSIDE EDGE OF TILE - JOLLY**
Not To Scale

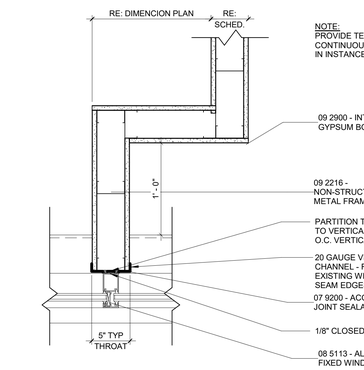
Code violations that are found during inspection are required to be corrected. Permit issuance does not grant approval of a code violation.

Structural plan review is limited to a general survey for code compliance. No review is implied nor was undertaken to verify structural adequacy.

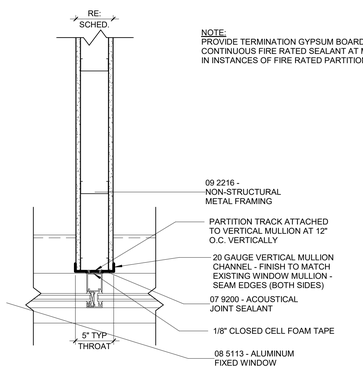
Install Plumbing Fixtures and toilet accessories **per chapter 6 ICC/ANSI A117.1 - 2 009**

SALES AND SERVICE COUNTERS AND WINDOWS SHALL COMPLY WITH SECTION **904.3, ICC/ANSI A117.1-2009** FOR ACCESSIBILITY REQUIREMENTS

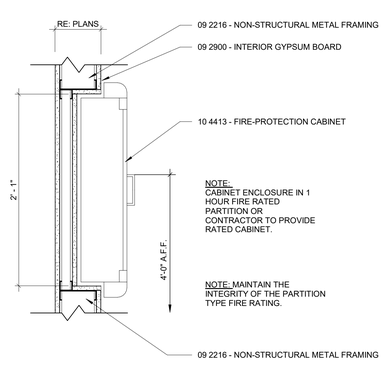
City of Aurora Building Division
Reviewed for Code Compliance
Approved as Noted: *Matt A.*
Date: *Aug 23, 2022*
2015 INTERNATIONAL CODES & 2020 NEC



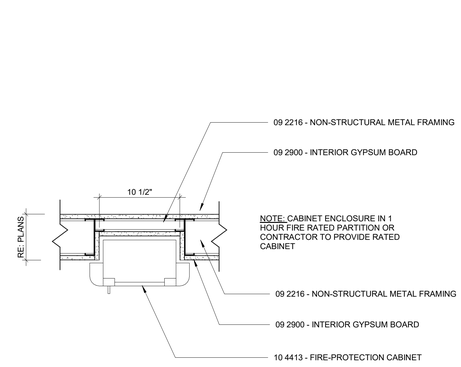

C1 **WALL TO MULLION**
1 1/2" = 1'-0"



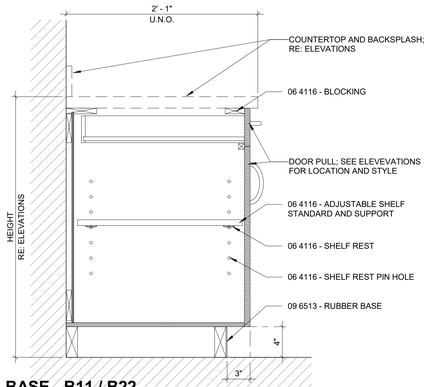

C2 **WALL TO MULLION - STRAIGHT**
1 1/2" = 1'-0"



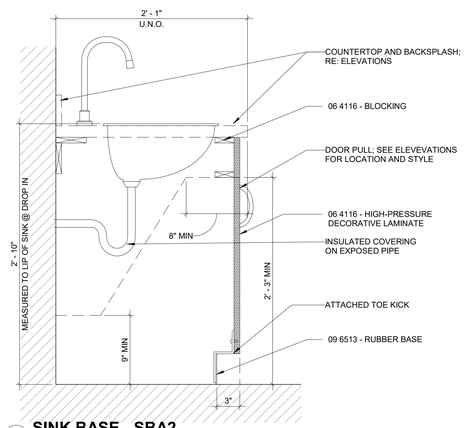

C4 **SECTION - TYPICAL FEC - WALL**
1 1/2" = 1'-0"



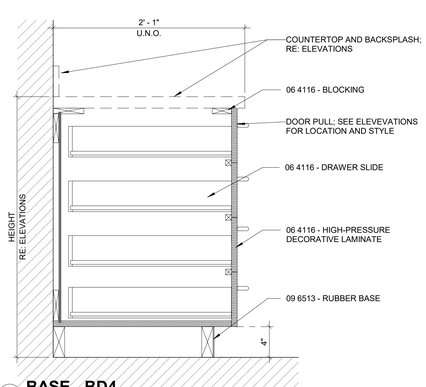

C5 **DETAIL - TYPICAL FEC - PLAN**
1 1/2" = 1'-0"



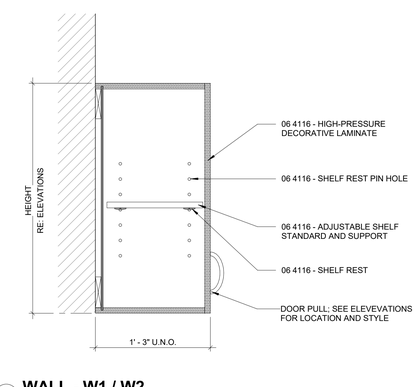

A1 **BASE - B11 / B22**
1 1/2" = 1'-0"




A2 **SINK BASE - SBA2**
1 1/2" = 1'-0"




A4 **BASE - BD4**
1 1/2" = 1'-0"




A5 **WALL - W1 / W2**
1 1/2" = 1'-0"

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303.861.8555

**Consultant(s)**

**Stamp**

STATE OF COLORADO
J.D. DREYER
503337
08.10.22
LICENSED ARCHITECT

| Issuance | Date |
|---|---|
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| Revisions | Date | No. |
|---|---|---|

**Project Information**

**HCA Academic Residency Offices**
1400 S. Potomac, Suite 200
Aurora, CO 80012

**Sheet Information**

Sheet Title:
CASEWORK TYPES AND INTERIOR DETAILS

Sheet Number:
A-590

DPA Project: 21086.02

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## FINISH ABBREVIATIONS

| ABBREVIATION | DESCRIPTION |
|---|---|
| **CEILING FINISHES** | |
| ACC | ACOUSTICAL CEILING CLOUD |
| ACT | ACOUSTICAL CEILING TILE |
| AMC | ACOUSTICAL METAL CEILING |
| AWC | ACOUSTICAL WOOD CEILING |
| EXP | EXPOSED |
| GYP | GYPSUM CEILING |
| PT | PAINT |
| RP (C) | RESIN PANEL |
| **FLOOR FINISHES** | |
| CF | CORK FLOORING |
| CPT | CARPET |
| FT | FLOOR TRANSITION |
| LN | LINOLEUM FLOORING |
| LVT | LUXURY VINYL TILE |
| LWF | LAMINATE WOOD FLOORING |
| MFT | METAL FLOOR TILE |
| PE | POURED EPOXY |
| PFT | PORCELAIN TILE |
| RF | RUBBER |
| SC | SEALED CONCRETE |
| SD | STATIC DISSIPATIVE |
| SFT | STONE FLOOR TILE |
| STC | STAINED CONCRETE |
| SV | SHEET VINYL |
| TZ | TERRAZZO |
| VCT | VINYL COMPOSITE TILE |
| WDF | WOOD FLOORING |
| **MILLWORK FINISH** | |
| CM | CROWN MOLDING |
| CTC | CONCRETE COUNTERTOP |
| ML | METAL LAMINATE |
| MT | METAL TRIM |
| MTL | METAL (SHEET GOODS) |
| PL | PLASTIC LAMINATE |
| QTZ | QUARTZ |
| RP (M) | RESIN PANEL |
| SP | SOLID PHENOLIC |
| SS | SOLID SURFACE |
| ST | STONE |
| STS | STAINLESS STEEL |
| UPF | UPHOLSTERY FABRIC |
| WDT | WOOD TRIM |
| **MISCELLANEOUS** | |
| (E) | EXISTING |
| CC | CUBICLE CURTAIN |
| CCT | CUBICLE CURTAIN TRACK |
| MPT | METAL PAINT |
| SHC | SHOWER CURTAIN |
| WDS | WOOD STAIN |
| **WALL BASE FINISHES** | |
| INT | INTEGRAL BASE |
| PTB | PORCELAIN TILE BASE |
| RB | RUBBER BASE |
| SSB | SOLID SURFACE BASE |
| STS | STAINLESS STEEL BASE |
| TZB | TERRAZO BASE |
| WB | WOOD BASE |
| **WALL FINISHES** | |
| AWP | ACOUSTICAL WALL P ANEL |
| BR | BRICK |
| CWT | CERAMIC WALL TILE |
| DWP | DECORATIVE WALL PANEL |
| GL | GLASS WALL |
| GWT | GLASS WALL TILE |
| MTL | METAL (SHEET GOODS) |
| MWT | METAL WALL TILE |
| PT | PAINT |
| PWT | PORCELAIN WALL TILE |
| RP (W) | RESIN PANEL |
| SS | SOLID SURFACE |
| ST | STONE |
| SWT | STONE WALL TILE |
| TS | TACKABLE SURFACE |
| UWP | UPHOLSTERED WALL PANEL |
| VWC | VINYL WALL COVERING |
| VWG | VINYL WALL GRAPHIC |
| WDV | WOOD VENEER |
| **WALL GUARDS** | |
| BG | BUMPER GUARD |
| CG | CORNER GUARD |
| CHR | CHAIR RAIL |
| CR | CRASH RAIL |
| FRP | FIBER REINFORCED PLASTIC WALL PANEL |
| HR | HAND RAIL |
| SWP | SHEET WALL PROTECTION |
| **WINDOWS** | |
| DG | DECORATIVE GLASS |
| DR | DRAPERY |
| FLM | WINDOW FILM |
| MB | MINI BLIND |
| RS | ROLLER SHADE |

### COMMON COORIDOR FINSIH SCHEDULE

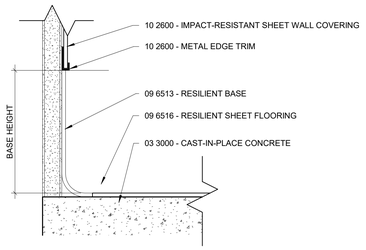
| FINISH CODE | DESCRIPTION | MANUFACTURER | SERIES/PATTERN | COLOR | SIZE | REMARKS |
|---|---|---|---|---|---|---|
| CEILING FINISHES | | | | | | |
| TGYP1 | GYPSON BOARD | - | - | WHITE | - | |
| FLOOR FINISHES | | | | | | |
| TCPT1 | CARPET | MILLIKEN | VIEWFINDER | TILT VF215 | 19.6" X 19.6" TILES | FIELD CARPET COLOR COMMON CORRIDOR, INSTALL QUARTER TURN |
| MISCELLANEOUS | | | | | | |
| TTR1 | FLOOR TRANSITIONS | JOHNSONITE | | GREY 48 | | |
| WALL BASE FINISHES | | | | | | |
| TRB1 | RUBBER BASE | JOHNSONITE | RUBBER COVER BASE | GREY 48 | 4" | |

### FINISH SCHEDULE

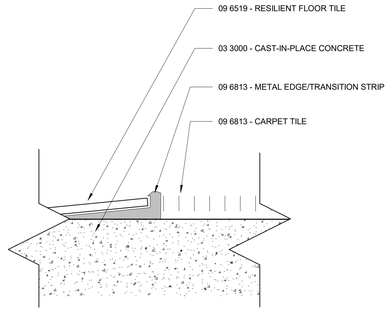
| FINISH CODE | DESCRIPTION | MANUFACTURER | SERIES/PATTERN | COLOR | SIZE | COMMENTS |
|---|---|---|---|---|---|---|
| ALTERNATES | | | | | | |
| PBT1 | PORCELAIN WALL BASE | DALTILE | SCRIPTER | MENTOR AR62 | 6" X 24" | |
| PFT1 | PORCELAIN FLOOR TILE | DALTILE | SCRIPTER | MENTOR AR62 | 12" X 24" | |
| CEILING FINISHES | | | | | | |
| ACT | ACOUSTICAL CEILING TILE | USG | RADAR BASIC TILE | | 2 X 4 | |
| FLOOR FINISHES | | | | | | |
| CPT1 | CARPET | INTERFACE | OPEN AIR - 404 | LINEN - 106753 | 19.6" X 19.6" | INSTALL: QUARTER TURN |
| LVT1 | LUXURY VINYL TILE | MOHAWK | LIVING LOCAL WOOD | SILVER - 918 | 6" X 48" | FIELD FLOORING, INSTALL: STAGGERED SEAMS |
| SV1 | SHEET VINYL | MANNIGNTON | DISCOVERY - UNLOCK | FORTUITY - DC203 | - | HEAT WELD SEAMS |
| MILLWORK FINISHES | | | | | | |
| PL1 | PLASTIC LAMINATE | FORMICA | - | INKED OAK - 5792-PG | - | CABINET FRONTS |
| PL2 | PLASTIC LAMINATE | WILSONART | - | SHADOW ZEPHYR - 4857-60 | - | WORKSURFACES |
| SS1 | SOILD SURFACE | CORIAN | - | NEUTRAL CONCRETE | - | TRANSACTION TOPS, ALTERNATE SINK LOCATIONS |
| WALL BASE FINISHES | | | | | | |
| INT1 | INTEGRAL BASE | | | | | |
| RB1 | RUBBER BASE | JOHNSONITE | RUBBER COVE BASE | TBD | 4" | |
| WALL FINISHES | | | | | | |
| EPX1 | EPOXY PAINT | SHERWIN WILLIAMS | SW 7671 | ON THE ROCKS | - | TOILET ROOMS |
| PT1 | PAINT | SHERWIN WILLIAMS | SW 7671 | ON THE ROCKS | - | FIELD PAINT |
| PT2 | PAINT | SHERWIN WILLIAMS | SW 7671 | ON THE ROCKS | - | DOOR PAINT |
| PT3 | PAINT | SHERWIN WILLIAMS | SW 6002 | ESSENTIAL GRAY | - | ACCENT PAINT |
| PT4 | PAINT | NOT USED | NOT USED | NOT USED | - | NOT USED |
| PT5 | PAINT | SHERWIN WILLIAMS | | TBD | - | ACCENT PAINT |
| PT6 | PAINT | SHERWIN WILLIAMS | | TBD | - | ACCENT PAINT |
| WT1 | CERAMIC WALL TILE | DALTILE | COLOR WHEEL LINEAR | ARCHITECTURAL GRAY | 4" X 12" | GROUT: TBD |
| WALL GUARDS | | | | | | |
| CG1 | CORNER GUARD | INPRO | 130 OR 150 SURFACE MOUNT | GALA - 0380 | 4' H | |
| WINDOWS | | | | | | |
| W1 | WINDOW TREATMENTS | SPRINGS WINDOW FASHIONS | HORIZONTAL ALUMINUM BLINDS | | 1 INCH | |

Code violations that are found during inspection are required to be corrected. Permit issuance does not grant approval of a code violation.

City of Aurora Building Division
Reviewed for Code Compliance
Approved as Noted: *Matt A.*
Date: *Aug 23, 2022*
2015 INTERNATIONAL CODES & 2020 NEC




A1 **DETAIL - TYP. INTEGRAL BASE**
6" = 1'-0"




A2 **DETAIL - LVT TO CARPET - FUSION TRANSITION STRIP**
12" = 1'-0"




A4 **LEVEL 2 - FINSIH PLAN**
1/8" = 1'-0"

## Finish Plan General Notes

A. ALL PAINT FINISHES TO BE SATIN: (2) COATS OVER (1) COAT PRIMER, U.N.O.

B. PAINT ALL HOLLOW METAL DOOR FRAMES. RE: FINISH SCHEDULE FOR COLOR. APPLICATION PER PAINT SPECIFICATION.

C. ALL PAINT TO BE LOW - VOC: LESS THEN 50 G/L FOR UNTINTED BASE.

D. ALL EXPOSED GRILLS, REGISTERS, DIFFUSERS AND ACCESS PANELS AT GYP LOCATION TO BE PAINTED TO MATCH THE SURFACE ON WHICH THEY OCCUR, U.N.O.

E. ALL FLOOR FINISH CHANGES TO BE AT CENTER OF DOORWAYS U.N.O., NO SEAMS IN FRONT OF DOORWAYS.

F. ALL RUBBER REDUCER TRIPS AT FLOOR TRANSITIONS TO BE ADA PROFILE. COLOR TO MATCH RUBBER BASE.

G. ALL CEILING GRID WALL ANGLES TO BE SEALED AT WALL WHERE PAINT OCCURS.

H. ALL PAINT COLORS TO BE MOCKED-UP ON SITE ON ONE ENTIRE FULL HEIGHT WALL FOR OWNER APPROVAL PRIOR TO ORDERING PRODUCT.

I. PROVIDE CORNER GUARDS AT ALL OUTSIDE CORNERS. APPLY CORNER GUARDS STARTING AT THE TOP IF THE WALL BASE. U.N.O

J. SHEET WALL PROTECTION TO BE INSTALLED TO 48" ABOVE TOP OF BASE. PROVIDE SUBMITTAL FOR TENANT APPROVAL.

K. PROVIDE AND INSTALL ADA COMPLIANT SIGNAGE AS REQUIRED BY CODE FOR ALL ADA TOILET ROOMS AND SERVICE ROOMS.

L. ALL WALL - HUNG SHELVES TO BE MELAMINE.

M. ALL FINISHES MEET CLASS A FIRE RATING.

N. ALL FURNITURE AND EQUIPMENT PROVIDED BY TENANT UNLESS NOTED OTHERWISE

O. ALL BASE AND OVEREAD CABINETS TO BE PLASTIC LAMINATE, U.N.O.

P. ALL COUNTERTOPS TO BE PLASTIC LAMINATE, U.N.O. COUNTERS WITH SINKS SHALL HAVE 4" HIGH BACK SPLASH. PROVIDE GROMMET AS REQUIRED, COORDINATE LOCATIONS WITH OWNER PRIOR TO INSTALLATION.

Q. FEATHER FLOOR UNDER ALL RESILIENT FLOORING BRING FINISH FACE LEVEL WITH ADJACENT FLOORING; RE: FINISH TRANSITION DETAILS

PROVIDE FINISHES THAT COMPLY WITH AND MEET THE FLAME SPREAD RATING REQUIREMENTS FROM **SECTION 803 AND TABLE 803.11 OF THE 2015 INTERNATIONAL BUILDING CODE.**

## Finish Symbol Legend

XX# — FINISH EXTENTS AT ACCENT WALL

XX# — FINISH MATERIAL TAG

LVT1/RB1

CPT1/RB1

SV1/INT1

EXISTING

CG1

## Keynotes

### KEYNOTE LEGEND (PER SHEET)

| | |
|---|---|
| FIN01 | MATCH COMMON CORRIDOR FINISHES |
| FIN02 | ALTERNATE: FLOOR TILE WITH TILE BASE |
| FIN03 | EXISTING FINISHES TO REMAIN |
| FIN04 | ALIGN |

DAVIS PARTNERSHIP ARCHITECTS
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**Consultant(s)**

**Stamp**

STATE OF COLORADO
J.D. DREYER
#53337
08.10.22
LICENSED ARCHITECT

| Issuance | Date |
|---|---|
| CONSTRUCTION DOCUMENTS | 08.10.2022 |

| Revisions | Date | No. |
|---|---|---|

**Project Information**

**HCA Academic Residency Offices**
1400 S. Potomac, Suite 200
Aurora, CO 80012

**Sheet Information**

Sheet Title:
FINISH PLAN, LEGEND AND NOTES

Sheet Number:
A-600

DPA Project: 21086.02

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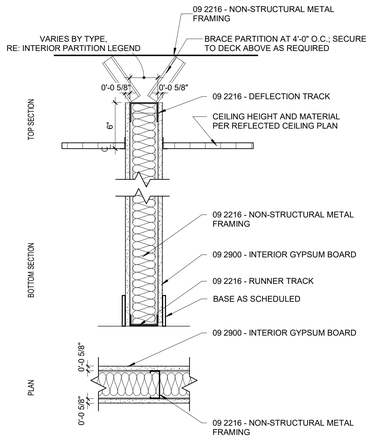
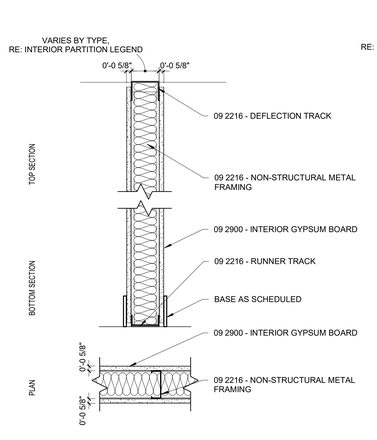
## PARTITION TYPES SCHEDULE

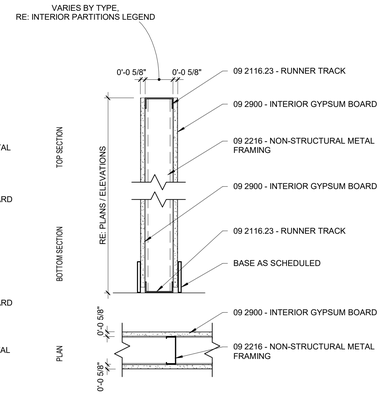
| PARTITION TYPE | USE DESCRIPTION | PARTITION WIDTH | STRUCTURE | CONSTRUCTION DESCRIPTION | STC RATING | • Remarks |
|---|---|---|---|---|---|---|
| 0 | | | | | | |
| Cf0 | FURRING WALL | 0'-3 1/8" | 2-1/2" STEEL STUD | (1) LAYER 5/8" GYPSUM BOARD ONE SIDE | | |
| Da0s | PARTITION TO 6" ABOVE CEILING | | 3-5/8" STEEL STUD | (1) LAYER 5/8" GYPSUM BOARD EACH SIDE | | |
| Db0s | PARTITION TO 6" BELOW STRUCTURE | 0'-4 7/8" | 3-5/8" STEEL STUD | (1) LAYER 5/8" GYPSUM BOARD EACH SIDE | | |
| Dd0s | PARTITION TO STRUCTURE | 0'-4 7/8" | 3-5/8" STEEL STUD | (1) LAYER 5/8" GYPSUM BOARD EACH SIDE | | |
| Dh0 | PARTIAL HEIGHT PARTITION | 0'-4 7/8" | 3-5/8" STEEL STUD | (1) LAYER 5/8" GYPSUM BOARD EACH SIDE | | |



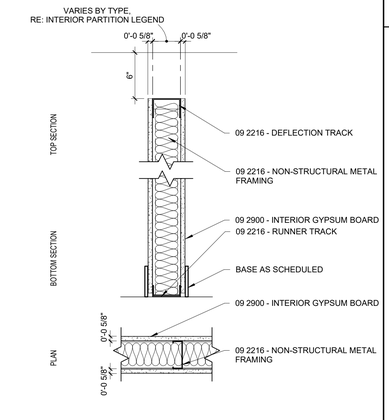

D1 **Da0s - UNRATED METAL STUD PARTITIONS**
1 1/2" = 1'-0"




D2 **Dd0s - UNRATED METAL STUD PARTITIONS**
1 1/2" = 1'-0"




D3 **Dh0 - UNRATED METAL STUD PARTITIONS**
1 1/2" = 1'-0"




D4 **Db0s - UNRATED METAL STUD PARTITIONS**
1 1/2" = 1'-0"

## INTERIOR PARTITION TYPES

### NAMING CONVENTION

STRUCTURE

| | |
|---|---|
| A | 7/8" HAT CHANNEL |
| B | 1 5/8" STEEL STUD |
| C | 2 1/2" STEEL STUD |
| D | 3 5/8" STEEL STUD |
| E | 4" STEEL STUD |
| F | 6" STEEL STUD |
| G | 3 5/8" DOUBLE STEEL STUD |
| J | 2 1/2" C-H STEEL STUD |
| K | 4" C-H STEEL STUD |
| L | 6" C-H STEEL STUD |
| M | 2x4 WOOD STUD |
| N | 2x6 WOOD STUD |
| P | 4" CMU |
| Q | 6" CMU |
| R | 8" CMU |
| S | 12" CMU |
| T | 8" CAST-IN-PLACE CONCRETE |
| V | 12" CAST-IN-PLACE CONCRETE |
| Y | 18" CAST-IN-PLACE CONCRETE |
| Z | 1 1/2" Z-FURRING CHANNEL |

SUB-TYPE

| | |
|---|---|
| a | 6" ABOVE CEILING |
| b | UNDERSIDE OF STRUCTURE |
| c | UNDERSIDE OF CEILING |
| d | TO STRUCTURE |
| f | FURRING |
| h | PARTIAL HEIGHT |
| k | MRI SHIELDING |
| m | LEAD-LINED |
| n | LEAD-LINED SOUND PARTITION |
| r | BALLISTIC RESISTANT FIBERGLASS |
| s | SOUND PARTITION |
| t | THERMAL INSULATION |
| u | SOUND PARTITION WITH (2) LAYERS GYPSUM BOARD ONE SIDE (1) LAYER OTHER SIDE |
| w | SOUND PARTITION WITH (2) LAYERS GYPSUM BOARD EACH SIDE |
| z | TILE BACKER BOARD |

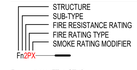
FIRE RESISTANCE RATING

| | |
|---|---|
| 0 | NON-RATED |
| .5 | 1/2 HOUR |
| 1 | 1 HOUR |
| 2 | 2 HOUR |
| 3 | 3 HOUR |
| 4 | 4 HOUR |

FIRE / SMOKE RATING MODIFIERS

| | |
|---|---|
| B | FIRE BARRIER |
| P | FIRE PARTITION |
| W | FIRE WALL |
| N | INTERIOR LOAD BEARING FIRE RESISTANCE RATED WALL |
| V | SMOKE PARTITION |
| X | SMOKE BARRIER |
| Y | WALL RESISTING THE PASSAGE OF SMOKE |

### WALL TAG ANATOMY




F = 6" METAL STUD
n = LEAD-LINED SOUND PARTITION
2 = 2 HOUR FIRE RESISTANCE RATING
P = FIRE PARTITION
X = SMOKE BARRIER

**GENERAL CONSTRUCTION AND LAYOUT NOTES**

1. THE INTERIOR FRAMING SUBCONTRACTOR SHALL PROVIDE A DELEGATED ENGINEERED STUD DESIGN FOR ALL NON-STRUCTURAL METAL FRAMING FOR WALLS AND CEILINGS. SUBMIT FRAMING SHOP DRAWINGS WITH DETAILS, PRODUCT SELECTIONS, AND ENGINEERING CALCULATIONS STAMPED BY A LICENSED ENGINEER IN THE PROJECT JURISDICTION. ENGINEERING SHALL INCLUDE PROVISIONS FOR ELEMENTS ATTACHED TO/SUPPORTED BY THE FRAMING. FASTENER DESIGN AND SELECTION IS ALSO REQUIRED. SUBMIT ICC ES EVALUATION REPORTS FOR EACH FASTENER. USE OF DIMPLED OR PERFORMANCE ENCHANCED SHAPED STUDS IS ACCEPTABLE. UNLESS OTHERWISE INDICATED DESIGN FOR A MAXIMUM DEFLECTION OF L/240 AT 5 PSF. AT PARTITIONS TO RECEIVE CERAMIC TILE DESIGN FOR A MAXIMUM DEFLECTION OF L/360 AT 5 PSF.
2. ALL INTERIOR PARTITIONS ARE DIMENSIONED TO FINISHED FACE OF GYPSUM BOARD UNLESS NOTED OTHERWISE.
3. ALL STUDS SHALL BE FULL HEIGHT TO UNDERSIDE OF STRUCTURE UNLESS INDICATED OTHERWISE BY PARTITION TYPE.
4. BOTTOM OF GYPSUM BOARD SHALL BE 1/4" TO 3/8" ABOVE FINISH FLOOR UNLESS OTHERWISE INDICATED.
5. OFFSET STUDS AS NECESSARY TO ALIGN OUTSIDE FACES OF GYPSUM BOARD AT ADJACENT WALL TYPES WITH VARYING LAYERS OF GYPSUM BOARD.
6. PROVIDE DEEP LEG TRACKS (3" FLANGE) AT HEAD OF PARTITIONS AT ALL NON-LOAD BEARING PARTITIONS FOR EACH CONDITION THAT ALLOW FOR 1" OF UPWARD MOVEMENT AND 1" OF DOWNWARD DYNAMIC MOVEMENT CAPABILITIES.
7. AT SLAB-ON-GRADE CONDITIONS PROVIDE DYNAMIC MOVEMENT REQUIREMENTS CALLED FOR IN THE GEOTECHNICAL INVESTIGATION (SOILS REPORT). IF NO GEOTECHNICAL INVESTIGATION EXISTS CONTACT THE ARCHITECT FOR DEFLECTION CRITERIA.
8. ALL PARTITION TYPES MARKED BY A "t" SUFFIX (IE. D0t) SHALL BE INSTALLED WITH FULL HEIGHT AND WIDTH CONTINUOUS THERMAL INSULATION AND, IF INDICATED, CONTINUOUS VAPOR RETARDER.
9. PROVIDE GYPSUM BOARD CONTROL JOINTS PER ASTM C 840 UNLESS OTHERWISE INDICATED ON DRAWINGS.
10. PROVIDE FIRE BLOCKING AND DRAFT STOPS PER CODE.

**RATED PARTITION NOTES**

1. FIRE-RATED ASSEMBLY CRITERIA TAKE PRECEDENT OVER ANY OTHER CONSTRUCTION CRITERIA.
2. REFERENCE LIFE SAFETY DRAWINGS FOR LOCATIONS OF FIREWALLS, FIRE BARRIERS, FIRE PARTITIONS, SMOKE PARTITIONS, SMOKE BARRIERS, AND WALLS RESISTING THE PASSAGE OF SMOKE. COMPLY WITH IBC AND ANY OTHER APPLICABLE CODES FOR CONSTRUCTION REQUIREMENTS FOR EACH RATED PARTITION TYPE.
3. REFERENCE SPECIFICATION SECTION 07 8413 – 'PENETRATION FIRESTOPPING' FOR TREATMENT OF ANY PENETRATIONS THROUGH A FIRE RATED PARTITION.
4. REFERENCE SPECIFICATION SECTION 07 8443 – 'JOINT FIRESTOPPING' FOR TREATMENT OF TOP AND BOTTOM OF WALL JOINTS AND JOINTS TO ABUTTING CONSTRUCTION.
5. PROVIDE AND SUBMIT FOR APPROVAL U.L. RATED HEAD OF WALL ASSEMBLIES FOR EACH RATED PARTITION CONDITION THAT ALLOWS FOR THE DYNAMIC MOVEMENT INDICATED. IF ACCEPTABLE TO THE AUTHORITY HAVING JURISDICTION (AHJ), OBTAIN ENGINEERING JUDGEMENTS FOR JOB SPECIFIC CONDITIONS NOT ADDRESSED BY TESTED ASSEMBLIES.
6. PROVIDE FIRE-RATED ACCESS DOORS AND FRAMES TO REACH DAMPERS OR CONTROL VALVES IN RATED PARTITIONS OR CEILING AS REQUIRED TO MAINTAIN RATING. PROVIDE NONRATED ACCESS DOORS AT NON RATED CONSTRUCTION.
7. WHERE DEVICES ARE RECESSED IN A FIRE RATED PARTITION PROVIDE: A.) DEVICE RATED FOR INSTALLATION IN RATED PARTITIONS, OR B.) CONSTRUCTION SUCH THAT FIRE RATING IS MAINTAINED BEHIND RECESSED DEVICE.
8. WHERE STRUCTURAL ITEMS SUCH AS HANGERS FOR STAIRS ARE EMBEDDED IN A RATED PARTITON CONSTRUCTION SHALL BE SUCH THAT FIRE RATING IS MAINTAINED BEHIND EMBEDDED ITEM.
9. MARKING AND IDENTIFICATION: FIRE WALLS, FIRE BARRIERS, FIRE PARTITIONS, SMOKE BARRIERS AND SMOKE PARTITIONS OR ANY OTHER WALL REQUIRED TO HAVE PROTECTED OPENINGS OR PENETRATIONS SHALL BE LABELED PER CODE.
10. PROVIDE SMOKE PARTITIONS TO LIMIT THE TRANSFER OF SMOKE. FILL JOINTS AND THE SPACE AROUND PENETRATING ITEMS SUCH AS DUCTS, PIPES, CONDUITS, AND SIMILAR BUILDING SERVICE EQUIPMENT WITH AN APPROVED MATERIAL TO LIMIT THE PASSAGE OF SMOKE.

**SOUND PARTITION NOTES**

1. ALL PARTITION TYPES WITH A SUB-TYPE DESIGNATING A "SOUND PARTITION" SHALL BE INSTALLED TO INCLUDE FULL HEIGHT AND WIDTH SOUND ATTENUATION BLANKETS (SAB) AND ACOUSTICAL JOINT SEALANT AT TOPS AND BOTTOMS OF ALL WALLS AND PENETRATIONS
2. PROVIDE ELECTRICAL OUTLET BARRIER PADS IN SOUND PARTITIONS.
3. STAGGER DEVICES THAT PENETRATE OPPOSING WALL SURFACES IN ADJACENT STUD CAVITIES.

## DOOR SCHEDULE

| DOOR # | ROOM NAME | DOOR PANEL WIDTH | DOOR PANEL HEIGHT | DOOR PANEL THICKNESS | DOOR PANEL TYPE | DOOR PANEL MATERIAL | DOOR PANEL FINISH | DOOR PANEL GLAZING TYPE | DOOR FRAME TYPE | DOOR FRAME FINISH | LIFE SAFETY FIRE RATING | LIFE SAFETY CLEAR OPENING WIDTH | HARDWARE SET | WALL WIDTH | REMARKS | REV. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| REFLECTED CEILING PLAN, LEVEL 2 | | | | | | | | | | | | | | | | |
| 2012 | OFFICE | 36" | 84" | 1 3/4" | F1 | WD | ST | N/A | HM1 | PT | 0 Mins | 33 1/8" | 04 | 4 7/8" | | |
| 2014 | CORRIDOR | 36" | 84" | 1 3/4" | F1 | WD | ST | N/A | HM1 | PT | 0 Mins | 33 1/8" | 01 | 4 7/8" | | |
| 2018 | OFFICE | 36" | 84" | 1 3/4" | F1 | WD | ST | N/A | HM1 | PT | 0 Mins | 33 1/8" | 04 | 4 7/8" | | |
| 2019 | OFFICE | 36" | 84" | 1 3/4" | F1 | WD | ST | N/A | HM1 | PT | 0 Mins | 33 1/8" | 04 | 4 7/8" | | |
| 2020 | CORRIDOR | 36" | 96" | 1 3/4" | F1 | WD | ST | N/A | HM1 | PT | 0 Mins | 33 1/8" | 07 | 4 7/8" | | |
| 2023 | STORAGE | 36" | 84" | 1 3/4" | F1 | WD | ST | N/A | HM1 | PT | 0 Mins | 33 1/8" | 06 | 4 7/8" | | |
| 2024 | CORRIDOR | 36" | 84" | 1 3/4" | F1 | WD | ST | N/A | HM1 | PT | 0 Mins | 33 1/8" | 03 | 4 7/8" | | |
| 2025 | RESIDENTS OFFICE | 72" | 84" | 1 3/4" | F1 | WD | ST | N/A | HM2 | PT | 0 Mins | 69 1/8" | 02 | 4 7/8" | | |
| 2025A | RESIDENTS OFFICE | 36" | 84" | 1 3/4" | F1 | WD | ST | N/A | HM1 | PT | 0 Mins | 33 1/8" | 01 | 4 7/8" | | |
| 2025B | RESIDENTS OFFICE | 36" | 84" | 1 3/4" | F1 | WD | ST | N/A | HM1 | PT | 0 Mins | 33 1/8" | 05 | 4 7/8" | | |
| 2029 | OFFICE | 36" | 84" | 1 3/4" | F1 | WD | ST | N/A | HM1 | PT | 0 Mins | 33 1/8" | 04 | 4 7/8" | | |
| 2031 | OFFICE | 36" | 84" | 1 3/4" | F1 | WD | ST | N/A | HM1 | PT | 0 Mins | 33 1/8" | 04 | 4 7/8" | | |
| 2032 | CORRIDOR | 36" | 96" | 1 3/4" | F1 | WD | | | HM1 | | 0 Mins | 33 1/8" | 08 | 4 7/8" | | |
| 2033 | OFFICE | 36" | 84" | 1 3/4" | F1 | WD | ST | N/A | HM1 | PT | 0 Mins | 33 1/8" | 04 | 4 7/8" | | |
| 2038 | IT | 36" | 84" | 1 3/4" | F1 | WD | ST | N/A | HM1 | PT | 0 Mins | 33 1/8" | 01 | 4 7/8" | | |
| 2039 | STORAGE | 72" | 84" | 1 3/4" | F3 | WD | ST | N/A | HM2 | PT | 0 Mins | 67 1/2" | BF-01 | 4 7/8" | | |

Code violations that are found during inspection are required to be corrected. Permit issuance does not grant approval of a code violation.

Provide lever or other approved hardware on all new and relocated doors.
**2009 ICC/ ANSI 117.1 309.4**

Install Tempered or Safety Glazing at all Full Lite doors, and other locations as required by 2015 IBC, Section 2406

City of Aurora Building Division
Reviewed for Code Compliance
Approved as Noted: *Matt A.*
Date: *Aug 23, 2022*
2015 INTERNATIONAL CODES & 2020 NEC

## DOOR GENERAL NOTES

A. NUMBER INDICATED IN THE "REV" CORRESPONDS TO THE ISSUE/REVISION TAG NUMBER CONTAINED IN THE TITLEBLOCK.

B. REFER TO SPECIFICATIONS FOR DOOR HARDWARE TYPE DESCRIPTION

C. SMOKE AND DRAFT CONTROL DOORS

REFER TO IBC 2015:

710.5.2.2 SMOKE AND DRAFT-CONTROL DOORS. WHERE REQUIRED ELSEWHERE IN THE CODE, DOORS IN SMOKE PARTITIONS SHALL MEET THE REQUIREMENTS FOR A SMOKE AND DRAFT CONTROL DOOR ASSEMBLY TESTED IN ACCORDANCE WITH UL 1784. THE AIR LEAKAGE RATEOF THE DOOR ASSEMBLY SHALL NOT EXCEED 3.0 CUBIC FEET PER MINUTE PER SQUARE FOOT OF DOOR OPENING AT 0.10 INCH OF WATER FOR BOTH THE AMBIENT TEMPERATURE TEST AND THE ELEVATED TEMPERATURE EXPOSURE TEST. INSTALLATION OF SMOKE DOORS SHALL BE IN ACCORDANCE WITH NFPA 105.

710.5.2.3 SELF-CLOSING OR AUTIMATIC-CLOSING DOORS. WHERE REQUIRED ELSEWHERE IN THE CODE, DOORS IN SMOKE PARTITIONS SHALL BE SELF CLOSING OR AUTOMATIC - CLOSING BY SMOKE DETECTION IN ACCORDANCE WITH SECTION 716.5.9.3.

D. ALL DOORS TO BE UNDERCUT 5/8".

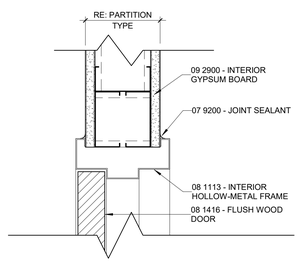
E. WOOD DOORS TO MATCH EXISTING. REFER TO SPECIFICATIONS.

F. EXIT DOORS SHOULD BE OPENABLE FROM THE INSIDE WITHOUT THE USE OF A KEY, SPECIAL KNOWLEDGE OR EFFORT.

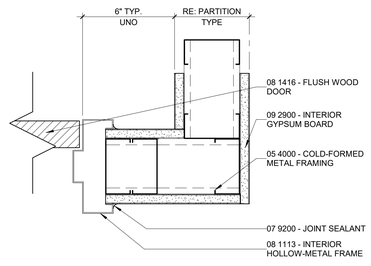
G. AT ALL SECONDARY EXIT DOORS A READILY VISIBLE DURABLE SIGN IS POSTED ON THE EGGRESS SIDE ON OR ADJACENT TO THE DOOR STATING: THIS DOOR TO REMAIN UNLOCKED WHEN BUILDING OCCUPIED. THE SIGN SHALL BE IN LETTERS 1 INCH HIGH ON A CONTRASTING BACKGROUND. SIGN BY TENANT

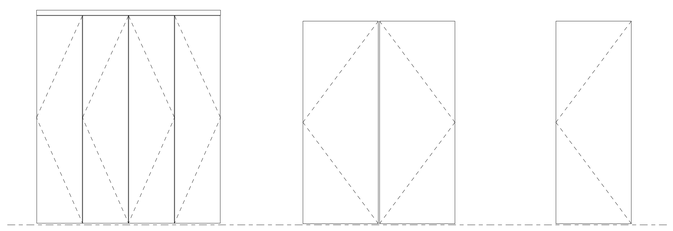
H. CONTRACTOR TO FIELD COORDINATE ALL ROUGH OPENINGS PRIOR TO ORDERING OR FABRICATING ANY FRAMES.

I. REFER TO PLANS FOR QUANTITIES AND LOCATIONS OF ALL DOORS AND WINDOWS.

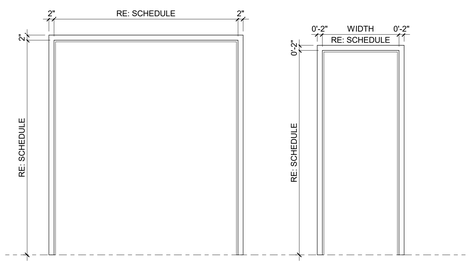



A3 **HM JAMB DETAILS**
3" = 1'-0"




**DOOR PANEL TYPES**




**DOOR FRAME TYPES**



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**Stamp**

STATE OF COLORADO
J.D. DREYER
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08.10.22
LICENSED ARCHITECT

| Issuance | Date |
|---|---|
| CONSTRUCTION DOCUMENTS | 08.10.2022 |

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|---|---|---|

**Project Information**

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**Sheet Information**

Sheet Title:
INTERIOR PARTITIONS, DOOR SCHEDULE, TYPES, & DETAILS

Sheet Number:
A-710

DPA Project: 21086.02

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AM 8:03:5 2022/08/16

## PLUMBING SPECIFICATIONS

ALL WETTED PARTS USED TO CONVEY WATER ANTICIPATED FOR HUMAN CONSUMPTION SHALL BE CERTIFIED LEAD–FREE IN COMPLIANCE WITH NSF/ANSI–372 OR NSF/ANSI 61G.

WATER PIPING ABOVE GRADE SHALL BE TYPE L, HARD DRAWN COPPER WITH WROUGHT COPPER FITTINGS SOLDERED WITH 95–5 TIN–ANTIMONY SOLDER OR BRAZED WITH SILVER BASED FILLER METAL. SDR9 CROSSLINKED POLYETHYLENE "PEX" TUBING MANUFACTURED IN ACCORDANCE WITH ASTM F876 AND ASTM F877 WITH COMPRESSION FITTINGS BY SAME MANUFACTURER AS TUBING MAY BE USED FOR RUN–OUTS TO INDIVIDUAL FIXTURES.

SHUT–OFF VALVES ARE TO BE BRONZE BALL VALVES, TWO PIECE OR UNI–BODY FULL PORT WITH CHROME PLATED BALL, REINFORCED TFE SEATS AND STUFFING BOX, LEVER HANDLE AND SCREWED OR SOLDER ENDS. 400 PSI W.O.G., 150 PSI SATURATED STEAM.

WATER PIPING SHALL BE TESTED WITH WATER AT 125 PSIG. TEST PRESSURE SHALL BE MAINTAINED FOR A MINIMUM OF 30 MINUTES WITH NO LOSS. DOMESTIC WATER PIPING SHALL BE DISINFECTED IN ACCORDANCE WITH THE REQUIREMENTS OF THE JURISDICTIONAL HEALTH AND PLUMBING CODES.

ABOVE GRADE SOIL, WASTE, VENT AND STORM DRAIN PIPING SHALL BE NO–HUB, CAST IRON. INSTALLATION SHALL BE IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.

SOIL AND WASTE PIPING 2–1/2" AND SMALLER SHALL BE SLOPED 1/4" PER FOOT AND PIPING 3" AND LARGER SHALL BE SLOPED 1/8" PER FOOT UNLESS NOTED OTHERWISE ON DRAWINGS. STORM DRAIN PIPING SHALL BE SLOPED 1/8" PER FOOT UNLESS NOTED OTHERWISE ON DRAWINGS.

WALL CLEANOUTS FOR WASTE PIPING SHALL BE FURNISHED AND INSTALLED BELOW SINKS, LAVATORIES AND URINALS IN ACCORDANCE WITH APPLICABLE SECTIONS OF THE JURISDICTIONAL PLUMBING CODE. FLOOR/GRADE CLEANOUTS FOR WASTE PIPING SHALL BE FURNISHED AND INSTALLED IN ACCORDANCE WITH APPLICABLE SECTIONS OF THE JURISDICTIONAL PLUMBING CODE.

SOIL, WASTE, VENT AND STORM DRAIN PIPING SHALL BE TESTED WITH WATER UNDER PRESSURE EQUIVALENT TO THE HIGHEST POINT AND 10' MINIMUM. THE SYSTEM OR PORTION THEREOF SHALL BE UNDER PRESSURE FOR A MINIMUM OF 15 MINUTES BEFORE INSPECTION.

EQUIPMENT AND CONDENSATE DRAINS SHALL BE TYPE M HARD DRAWN COPPER TUBING WITH WROUGHT COPPER FITTINGS. COPPER TUBING SHALL BE SOLDERED WITH 95–5 TIN–ANTIMONY SOLDER OR BRAZED WITH SILVER BASED FILLER MATERIAL.

DOMESTIC WATER AND STORM PIPING SHALL BE INSULATED WITH NONCOMBUSTIBLE, PREFORMED, FIBERGLASS, PIPE INSULATION WITH A CONDUCTIVITY (K–VALUE) LESS THAN 0.27 AT 75°F AND A FLAME SPREAD/ SMOKE DEVELOPED RATING OF 25/50 OR LESS. INSULATION SHALL HAVE A KRAFT REINFORCED FOIL VAPOR BARRIER WITH SELF–SEALING ADHESIVE JOINTS. INSULATION AT HANGERS AND CLAMPS SHALL BE OF HIGH DENSITY INSULATING MATERIAL. INSULATED PIPING EXPOSED TO VIEW SHALL BE COVERED AND FINISHED WITH A 30 MIL. THICK PVC JACKET.

PIPE INSULATION SCHEDULE
DOMESTIC COLD WATER COPPER PIPING = 1/2" THICK INSULATION
DOMESTIC HOT WATER SUPPLY PIPING (SMALLER THAN 1–1/2") = 1" THICK INSULATION
DOMESTIC HOT WATER RECIRC PIPING (SMALLER THAN 1–1/2") = 1" THICK INSULATION

* RUN–OUTS TO INDIVIDUAL FIXTURES DO NOT NEED TO BE INSULATED UNLESS PROVIDED WITH HEAT TRACE HOT WATER TEMPERATURE MAINTENANCE SYSTEM
** INSULATE FIRST 8 FEET OF HOT AND COLD WATER PIPING BETWEEN WATER HEATER AND HEAT TRAPS ON NON–RECIRCULATING SYSTEMS WITH 1" THICK INSULATION

WATER HAMMER ARRESTERS EQUAL TO SIOUX CHIEF HYDRA–RESTER SHALL BE FURNISHED AND INSTALLED ON HOT AND COLD WATER PIPING SYSTEMS IN ACCORDANCE WITH MANUFACTURER'S INSTALLATION REQUIREMENTS. WATER HAMMER ARRESTERS SHALL BE PDI CERTIFIED AND ANSI APPROVED.

PIPE HANGERS FOR INSULATED PIPE SIZES 1/2" TO 1–1/2" SHALL BE ADJUSTABLE, STEEL, BAND TYPE. PIPE HANGERS FOR INSULATED PIPE SIZES 2" AND OVER SHALL BE ADJUSTABLE, STEEL CLEVIS TYPE. SHIELDS SHALL BE USED WHERE HANGER SUPPORTS INSULATED PIPE. SHIELDS SHALL BE 18 GAGE GALVANIZED STEEL OVER INSULATION 180 DEGREES AND A MINIMUM OF 12 INCHES LONG. PIPE HANGERS FOR BARE PIPE SHALL BE ADJUSTABLE, MALLEABLE STEEL, SPLIT RING TYPE. BARE COPPER PIPE SHALL BE PROTECTED FROM CORROSION BY TRISOLATOR OR SIMILAR PRODUCT. HANGERS SHALL BE PROVIDED AT INTERVALS IN ACCORDANCE WITH THE JURISDICTIONAL PLUMBING CODE. PIPING SHALL BE PROVIDED WITH SEISMIC RESTRAINTS IN ACCORDANCE WITH THE SMACNA SEISMIC RESTRAINT MANUAL – GUIDELINES FOR MECHANICAL SYSTEMS.

PENETRATIONS OF FIRE RATED WALLS OR FLOORS BY PIPE SHALL BE SEALED BY A FIRESTOPPING SYSTEM UL LISTED FOR THE APPLICATION. PENETRATION SEAL MATERIALS SHALL BE INSTALLED IN ACCORDANCE WITH PRINTED INSTRUCTIONS OF THE UL FIRE RESISTANCE DIRECTORY AND MANUFACTURERS INSTRUCTIONS. FIRESTOPPING SYSTEM SHALL BE EQUAL TO 3M FIRE BARRIER. FIRESTOPPING MATERIAL SHALL BE CAULK OR PUTTY TYPE.

CHROME PLATED ESCUTCHEONS SHALL BE PROVIDED AT PIPE SLEEVES FOR EXPOSED BARE PIPE.

## GENERAL NOTES

1. ALL WORK SHALL BE INSTALLED IN ACCORDANCE WITH ALL APPLICABLE STATE CODES, LOCAL CODES, AND OWNER'S STANDARDS INDICATED BY THE CONSTRUCTION DOCUMENTS.
2. PLUMBING DRAWINGS ARE DIAGRAMMATIC AND DO NOT NECESSARILY INDICATE EVERY REQUIRED OFFSET, FITTING, ETC. DRAWINGS ARE NOT TO BE SCALED FOR DIMENSIONS. TAKE ALL DIMENSIONS FROM ARCHITECTURAL DRAWINGS, CERTIFIED EQUIPMENT DRAWINGS AND FROM THE STRUCTURE ITSELF BEFORE FABRICATING ANY WORK, VERIFY ALL SPACE REQUIREMENTS COORDINATING WITH OTHER TRADES, AND INSTALL THE SYSTEMS IN THE SPACE PROVIDED WITHOUT EXTRA CHARGES TO THE OWNER.
3. CONTRACTOR SHALL COORDINATE WORK INDICATED WITH MECHANICAL, ELECTRICAL, FIRE PROTECTION, STRUCTURAL, CIVIL, AND ARCHITECTURAL DIVISIONS. CONTRACTOR SHALL VERIFY SIZE & LOCATION OF EXISTING UTILITIES PRIOR TO COMMENCING WORK, COORDINATE WITH OTHER TRADES AND MAKE FINAL CONNECTION. VERIFY FIT OF PLUMBING SYSTEMS PRIOR TO FABRICATION. COORDINATE ALL CHASE, SLEEVE, AND SLAB BLOCK–OUT REQUIREMENTS BEFORE CONCRETE IS POURED OR BLOCK IS SET.
4. PROVIDE ALL EQUIPMENT SCHEDULED OR INDICATED ON THE DRAWINGS BUT NOT INCLUDED WITHIN THE SPECIFICATIONS INCLUDING ANY REQUIRED BUT NOT LISTED MISC ITEMS REQUIRED TO PROVIDE COMPLETE OPERATIONAL SYSTEMS AS INDICATED WHETHER SPECIFICALLY CALLED FOR OR NOT. INSTALLATION SHALL CONFORM TO MANUFACTURERS RECOMMENDATIONS AND APPLICABLE CODES. PROVIDE SUBMITTALS FOR ALL PROPOSED FIXTURES, EQUIPMENT AND MATERIALS TO BE UTILIZED. PROVIDE OPERATION AND MAINTENANCE MANUAL FOR ALL SYSTEMS AND EQUIPMENT AT END OF PROJECT.
5. ELECTRICAL CHARACTERISTICS OF PLUMBING EQUIPMENT SHALL BE VERIFIED WITH ELECTRICAL DRAWINGS AND ELECTRICAL CONTRACTOR PRIOR TO EQUIPMENT ORDER RELEASE. ADDITIONAL ELECTRICAL WORK RESULTING FROM EQUIPMENT SUBSTITUTION IS THE RESPONSIBILITY OF THIS CONTRACTOR.
6. DRAIN PIPING FROM EQUIPMENT SHALL BE ROUTED SO AS NOT TO CREATE A TRIPPING HAZARD.
7. ITEM DESIGNATIONS INDICATED HEREON ARE FOR PURPOSES OF THESE DOCUMENTS ONLY. CONTRACTOR SHALL VERIFY WITH OWNERS REPRESENTATIVE ACTUAL "TAGGING" INFORMATION TO BE PROVIDED FOR EACH ITEM OF MECHANICAL EQUIPMENT PRIOR TO NAMEPLATE ORDER RELEASE.
8. PROVIDE CLEANOUTS WHERE INDICATED ON DRAWINGS OR AS REQUIRED BY JURISDICTIONAL PLUMBING CODE.
9. CLEAN, TEST, AND SANITIZE ALL PLUMBING IN ACCORDANCE WITH REQUIREMENTS OF JURISDICTIONAL PLUMBING AND HEALTH CODES.
10. WHERE PIPES PASS THROUGH FIRE–RATED FLOOR OR WALLS, SEAL WITH MATERIALS EQUAL TO 3M FIRE BARRIER, MEETING TESTING PER ASTM–E–814 (UL 1479). USE CAULK OR PUTTY TYPE. ALL EXTERIOR WALL AND ROOF PENETRATIONS SHALL BE SEALED WATERPROOF.
11. AT THE COMPLETION OF THE WORK AND PRIOR TO FINAL ACCEPTANCE, ALL PARTS OF THE WORK INSTALLED UNDER THIS SPECIFICATION SHALL BE THOROUGHLY CLEANED.
12. ALL EQUIPMENT, MATERIALS, AND INSTALLATION IS TO BE WARRANTEED FOR ONE YEAR TO BE FREE FROM DEFECT. PROVIDE WRITTEN WARRANTY TO OWNER.
13. THE OWNER AND ENGINEER ARE NOT RESPONSIBLE FOR THE CONTRACTOR'S SAFETY PRECAUTIONS OR TO MEANS, METHODS, TECHNIQUES, CONSTRUCTION SEQUENCES, OR PROCEDURES REQUIRED TO PERFORM HIS WORK.
14. THIS CONTRACTOR SHALL FIELD VERIFY LOCATIONS AND SIZES OF ALL EXISTING EQUIPMENT, DUCTWORK, PIPING, ELECTRICAL CONDUIT, STRUCTURAL MEMBERS, ETC., PRIOR TO STARTING OF CONSTRUCTION. COORDINATE CONFLICTS WITH THE GENERAL CONTRACTOR.
15. THIS CONTRACTOR SHALL COORDINATE ALL REQUIRED EXISTING BUILDING SERVICE SYSTEM OUTAGES WITH BUILDING MANAGEMENT.
16. ALL PLUMBING SYSTEMS ARE REQUIRED TO BE INSTALLED PER BASE BUILDING REQUIREMENTS, LOCAL AND STATE JURISDICTIONAL CODES, ORDINANCES, AND APPLICABLE REGULATIONS.
17. SAWCUT/CORE DRILL EXISTING FLOOR AS REQUIRED FOR INSTALLATION OR CAPPING OF WASTE AND VENT PIPING. PATCH AND REPAIR TO MATCH EXISTING.
18. PATCH AND REPAIR TO MATCH EXISTING, ANY WALL/CEILINGS TO BE ACCESSED TO ROUTE PIPING.
19. EXISTING PLUMBING AND EQUIPMENT TO REMAIN IS SHOWN LIGHT. NEW PLUMBING AND EQUIPMENT IS SHOWN HEAVY. EXISTING PLUMBING AND EQUIPMENT TO BE REMOVED IS SHOWN WITH A HATCH OVER THE ITEM.

## SHEET INDEX

| ISSUE | SHEET NO. | SHEET DESCRIPTION |
|---|---|---|
| 08.10.22 CD ISSUE | P–001 | PLUMBING COVER SHEET |
| | P–102 | DEMO AND NEW PLUMBING PLANS |
| | P–301 | PLUMBING SCHEDULES AND DETAILS |

## PLUMBING LEGEND

| ABBR. | SYMBOL | DESCRIPTION |
|---|---|---|
| S OR W | | SOIL, WASTE OR SEWER BELOW GRADE OR FLOOR |
| S OR W | | SOIL, WASTE OR SEWER ABOVE GRADE OR FLOOR |
| FCO/GCO | | FLOOR OR GRADE CLEANOUT |
| CO | | CLEANOUT |
| V | | VENT |
| CW | | COLD WATER |
| HW | | HOT WATER |
| HWR | | HOT WATER RETURN |
| WHA | | WATER HAMMER ARRESTOR |
| D | | DRAIN |
| SOV | | SHUT–OFF VALVE |
| TV | | THROTTLING VALVE |
| CV | | CONTROL VALVE |
| FD | | FLOOR DRAIN |
| FS | | FLOOR SINK |
| VTR | | VENT THRU ROOF |
| MH | | MANHOLE |
| FH | | FIRE HYDRANT |
| AD | | ACCESS DOOR |
| POC | | POINT OF CONNECTION |
| CP | | CHROME PLATED |
| TDH | | TOTAL DYNAMIC HEAD |
| TP | | TRAP PRIMER |
| TS | | TEMPERING STATION |
| PC | | PIPE CAP |
| AFF | | ABOVE FINISHED FLOOR |
| AFG | | ABOVE FINISHED GRADE |
| UNO | | UNLESS NOTED OTHERWISE |
| AAV | | AIR ADMITTANCE VALVE |
| E | | EXISTING |
| N | | NEW |
| R | | RELOCATED |
| | | POINT OF CONNECTION NEW TO EXISTING |

This sheet of drawings has not been reviewed for code compliance.

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COLORADO LICENSED PROFESSIONAL ENGINEER
JOWARD MOEN
39463
PROFESSIONAL ENGINEER
8-11-2022

| Issuance | Date |
|---|---|
| CONSTRUCTION DOCUMENTS | 08.05.2022 |

| Revisions | Date | No. |
|---|---|---|

Project Information

**HCA Academic Residency Offices**
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Aurora, CO 80012

Sheet Information

Sheet Title:

PLUMBING COVER SHEET

Sheet Number:

P-001

MEC Project: 2022-080-01

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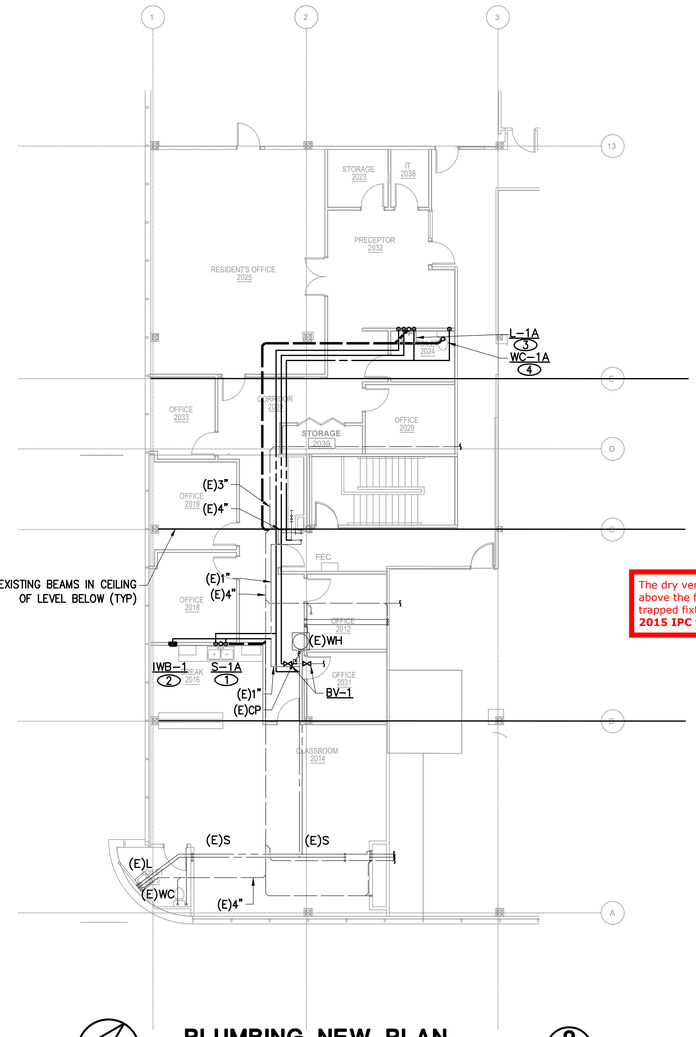
7/22/2022 10:30:29 AM

## NOTES

1. PROVIDE AND INSTALL NEW SINK. ROUGH-IN AND CONNECT HW, CW, W AND V PER CONNECTION SCHEDULE ON P-301. EXTEND PIPES BACK TO 3/4"HW, 3/4"CW, 2"W OR LARGER AND CONNECT. PROVIDE 1-1/2"AAV ON TRAP-ARM EXTENSION.
2. PROVIDE AND INSTALL NEW ICE MAKER WALL BOX. ROUGH-IN AND CONNECT CW PER CONNECTION SCHEDULE ON P-301.
3. PROVIDE AND INSTALL NEW LAVATORY. ROUGH-IN AND CONNECT HW, CW, W AND V PER CONNECTION SCHEDULE ON P-301. EXTEND PIPES BACK TO 3/4"HW, 3/4"CW, 2"W OR LARGER AND CONNECT. PROVIDE 1-1/2"AAV ON TRAP-ARM EXTENSION.
4. PROVIDE AND INSTALL NEW WATER CLOSET. ROUGH-IN AND CONNECT CW, AND W PER CONNECTION SCHEDULE ON P-301.




The dry vent must rise 6" vertically above the flood level rim of the highest trapped fixture being vented. **2015 IPC 905.4**

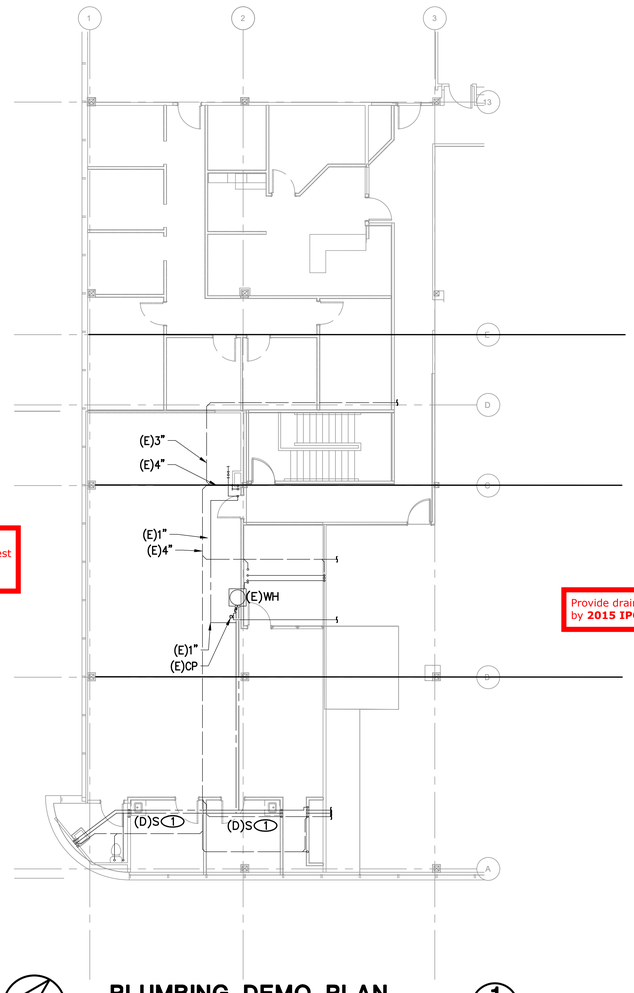
## PLUMBING NEW PLAN 2

1/8" = 1'-0"

P-102

## NOTES

1. DEMO EXISTING SINK. DEMO HW, CW AND W PIPES BACK TO MAINS AND CAP.




## PLUMBING DEMO PLAN 1

1/8" = 1'-0"

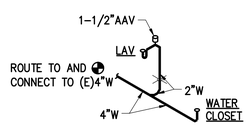
P-102

New plumbing work must meet 2015 IECC

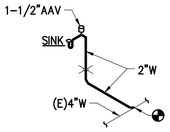
NOTES:
- ALL HW, HWR, AND CW PIPING TO BE 3/4" OR FINAL FIXTURE CONNECTION SIZE UNLESS OTHERWISE NOTED.
- REFER TO ARCHITECTURAL PLANS FOR EXACT PLUMBING FIXTURE LOCATIONS.

GENERAL NOTES:
1. ALL HW AND CW PIPING IN UNITS IS 3/4" OR FINAL FIXTURE CONNECTION SIZE UNLESS OTHERWISE NOTED.
2. NO WATER PIPING IS TO BE ROUTED IN EXTERIOR WALLS OR UNHEATED ATTIC SPACE, PIPING TO BE ROUTED ON HEATED SIDE OF INSULATED WALLS AND CEILINGS.

Air admittance valves should be installed per manufacturer's instructions




TOILET 2024




BREAK 2016

Provide drains no smaller than allowed by **2015 IPC 709.1 and 710.1(1)**

## WASTE AND VENT ISOMETRICS 3

NTS

P-102

Code violations that are found during inspection are required to be corrected. Permit issuance does not grant approval of a code violation. 2015 IBC 105.4.

City of Aurora Building Division
Reviewed for Code Compliance
Approved as Noted: *Y. Munoz*
Date: *Aug 23, 2022*
2015 INTERNATIONAL CODES & 2020 NEC

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8-11-2022

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Project Information

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Sheet Information

Sheet Title:

NEW WORK PLUMBING PLAN LEVEL 2

Sheet Number:

P-102

MEC Project: 2022-080-01

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7/22/2022 10:05:20 AM

# PLUMBING FIXTURE SCHEDULE

| MARK | DESCRIPTION | MFR/MODEL | ROUGH-IN (INCHES) | | | | | NOTES |
|---|---|---|---|---|---|---|---|---|
| | | | HW | CW | V | TRAP | S/W | |
| WC-1A | ADA COMPLIANT FLOOR SET FLUSH TANK TYPE CLOSE COUPLED TOILET WITH LOW CONSUMPTION 1.28 GPF WATERSENSE CERTIFIED SIPHON JET FLUSHING ACTION, ELONGATED BOWL, BOLT DOWN LOCKING TANK LID, GLAZED TRAPWAY. PROVIDE CHROME PLATED 1/2" NOM. COMP. X 3/8" NOM. COMP. ANGLE STOP AND SEAMLESS CHROME PLATED COPPER TUBE WATER SUPPLY WITH CHROME PLATED (1) PIECE SET SCREW TYPE CHROME PLATED BRASS ESCUTCHEON AT WALL PENETRATION. PROVIDE OPEN FRONT WHITE SEAT LESS COVER WITH SELF SUSTAINING CHECK HINGE. ALL TRIM TO BE CHROME PLATED COPPER OR BRASS. | TOILET = TOTO #CST744ELB OR EQUAL BY AMER. STD., KOHLER, CRANE<br>SEAT = TOTO #SC534-01 OR EQUAL BY OLSONITE, BENEKE, CHURCH, BEMIS, CENTOCO | -- | 1/2 | 2 | -- | 4 | FLOOR MOUNTED WITH WAX OR NEOPRENE CLOSET RING. SET WITH PLASTER OF PARIS AND WHITE NON-HARDENING ADHESIVE SEALANT BETWEEN THE FLOOR AND THE FIXTURE BASE WITH "COVED" FINISHING. ADA WATER CLOSET TANKS ARE TO BE PROVIDED WITH LEFT OR RIGHT HAND TRIP LEVERS AS REQUIRED TO ALLOW FOR TRIP LEVERS ARE TO BE INSTALLED TO WIDE SIDE OF ADA TOILET STALL. |
| L-1A | ADA COMPLIANT 20"X18" VITREOUS CHINA WALL HUNG LAVATORY SINK WITH HOLE DRILLINGS TO MEET FAUCET SPECIFICATIONS. PROVIDE CHROME PLATED BRASS PERFORATED GRID DRAIN WITH ADA WHEELCHAIR OFFSET DRAIN, CHROME PLATED BRASS P-TRAP AND WASTE ARM, 1/2" NOM. COMP. X 3/8" NOM. COMP. CHROME PLATED ANGLE STOPS WITH WHEEL HANDLES, CHROME PLATED FLEXIBLE SEAMLESS COPPER TUBE SUPPLIES, (1) PIECE SET SCREW TYPE CHROME PLATED CAST BRASS ESCUTCHEONS AT WALL PENETRATIONS, AND WALL SUPPORT SYSTEM WITH CONCEALED ARM SUPPORTS, WELDED FEET, RECTANGULAR STEEL UPRIGHTS, AND MOUNTING FASTENERS. FAUCET TO BE BATTERY POWERED IR SENSOR ACTIVATED UNIT OF CHROME PLATED CAST BRASS CONSTRUCTION WITH 0.50 GPM VANDAL RESISTANT AERATOR AND CERAMIC DISK CARTRIDGE TYPE VALVE WITH OPTIONAL MIXING VALVE. PROVIDE ASSE 1070 MIXING VALVE BELOW LAVATORY SET AT 105 DEG F DISCHARGE TEMP. ALL TRIM TO BE CHROME PLATED COPPER OR BRASS. | LAVATORY = ZURN #Z5341 OR EQUAL BY TOTO, KOHLER, CRANE , AMER STD<br>FAUCET = ZURN #Z6930-XL-F OR EQUAL BY KOHLER, DELTA, SYMMONS, CHICAGO<br>MIXING VALVE = LEONARD #170-LF OR EQUAL BY WATTS, SYMMONS, POWERS, WILKINS, ZURN<br>DRAIN = DEARBORN BRASS #760W-1 OR EQUAL BY BRASSCRAFT, KOHLER, AMER. STD., DELTA, CHICAGO, T&S BRASS, PROFLO<br>TRAP AND SUPPLY INSULATION = TRUEBRO #103 E-Z OR EQUAL BY BROCAR, PROFLO<br>CARRIER = ZURN #Z1231 OR EQUAL BY JOSAM, J.R. SMITH, WADE, MIFAB | 1/2 | 1/2 | 1 1/2 | 1 1/4 | 1 1/2 | BATTERY POWERED FAUCET<br>INSTALL MIXING VALVE ON WALL BELOW LAVATORY. CONNECT 3/8"HW AND 3/8"CW TO MIXING VALVE, EXTEND 3/8" TEMPERED WATER FROM MIXING VALVE TO FAUCET HOT WATER INLET. |
| S-1A | ADA COMPLIANT APPROVED 33" WIDE X 22" LONG X 6-1/2" DEEP DOUBLE COMPARTMENT SELF RIMMING SINK CONSTRUCTED OF 18 GAUGE SOUND DAMPENED STAINLESS STEEL WITH HOLE DRILLINGS TO MEET FAUCET SPECIFICATIONS. PROVIDE STAINLESS STEEL BASKET STRAINER, CHROME PLATED BRASS P-TRAP AND WASTE ARM, 1/2" NOM. COMP. X 3/8" NOM. COMP. CHROME PLATED ANGLE STOPS WITH WHEEL HANDLES, CHROME PLATED FLEXIBLE SEAMLESS COPPER TUBE SUPPLIES, AND (1) PIECE SET SCREW TYPE CHROME PLATED CAST BRASS ESCUTCHEONS AT WALL PENETRATIONS. FAUCET TO BE OF CHROME PLATED CAST BRASS CONSTRUCTION WITH 2.2 GPM VANDAL RESISTANT AERATOR AND CERAMIC DISK CARTRIDGE TYPE VALVE. ALL TRIM TO BE CHROME PLATED COPPER OR BRASS. PROVIDE CONTINUOUS FEED RUBBER CUSHION MTD. DISPOSER, MOTOR WITH MANUAL RESET OVERLOAD PROTECTION, STAINLESS STEEL STOPPER AND IMPELLERS (SWIVEL TYPE). | SINK = ELKAY #LRAD-3322R OR EQUAL BY JUST, MOEN<br>FAUCET = AMER. STD. #4175.300 OR EQUAL BY KOHLER, DELTA, SYMMONS, CHICAGO<br>STRAINER = ELKAY #LK35L OR EQUAL BY BRASSCRAFT, DEARBORN BRASS, KOHLER, AMER. STD., DELTA, CHICAGO, T&S BRASS, PROFLO<br>TRAP AND SUPPLY INSULATION = TRUEBRO #102-E-Z & #402W & #106 E-Z OR EQUAL BY BROCAR, PROFLO<br>DISPOSAL = ISE BADGER 5 OR EQUAL BY WHIRLAWAY, WASTE KING, SINKGUARD | 1/2 | 1/2 | 1 1/2 | 1 1/2 | 1 1/2 | DISPOSAL ELECTRICAL LOAD = 115VAC, 60 HZ, 8.1 FLA, CONTROL FROM WALL SWITCH. |
| IWB-1 | COLD ROLLED STEEL RECESSED WALL BOX WITH WHITE POWDER COAT FINISH, DOMESTIC WATER SUPPLY AND SHUT-OFF VALVE FOR COLD WATER SUPPLY. | ICE MACHINE SUPPLY WALL BOX = GUY GRAY MIB OR EQUAL BY SPECIALTY PRODUCTS, SIOUX CHIEF | -- | 1/2 | -- | -- | -- | |

# PLUMBING EQUIPMENT SCHEDULE

| ITEM | DESCRIPTION |
|---|---|
| BV-1 | THERMOMEGATECH CIRCUIT SOLVER SERIES #CSUA-3/4-120-03 DOMESTIC HOT WATER BALANCING VALVE CONSISTING OF LEAD FREE NSF 61 CERTIFIED CONSTRUCTION FOR POTABLE WATER INSTALLATION. VALVE TO BE SELF-ACTING THERMOSTATIC TYPE VALVE SET TO MAINTAIN SYSTEM WATER TEMPERATURE AT 120 DEG F SETPOINT. PROVIDED WITH INTEGRAL UNION AND SHUT-OFF VALVES AT INLET AND DISCHARGE CONNECTIONS. CAPACITY = 1.8 GPM @ 2.31' TDH FULL OPEN POSITION AND .1 GPM @ 2.31' FULL CLOSED POSITION. |

City of Aurora Building Division
Reviewed for Code Compliance
Approved as Noted: *Y. Munoz*
Date: *Aug 23, 2022*
2015 INTERNATIONAL CODES & 2020 NEC

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JOHN MOWAD MOEN
No. 36463
PROFESSIONAL ENGINEER
8-11-2022

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Project Information

**HCA Academic Residency Offices**
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Aurora, CO 80012

Sheet Information

Sheet Title:

PLUMBING SCHEDULES AND DETAILS

Sheet Number:

P-301

MEC Project: 2022-080-01

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7/22/2022 10:30:25 AM

# MECHANICAL SPECIFICATIONS

SUPPLY, RETURN, EXHAUST AND OUTSIDE AIR DUCTWORK SHALL BE CONSTRUCTED OF GALVANIZED STEEL PER SMACNA DUCT CONSTRUCTION STANDARDS. SUPPLY, RETURN, EXHAUST AND OUTSIDE AIR DUCTWORK SHALL BE CONSTRUCTED FOR 3" W.C. STATIC PRESSURE UPSTREAM OF VAV BOX 1" DOWNSTREAM OF VAV BOX. SPIRAL LOCK-FORMED ROUND DUCT MAY BE UTILIZED WHERE SPACE ALLOWS. TRANSVERSE JOINTS AND LONGITUDINAL SEAMS SHALL BE SEALED AIR-TIGHT WITH MASTIC, MASTIC SHALL BE APPLIED ONLY TO THE INSIDE OF EXPOSED DUCTWORK. RADIUSED ELBOWS (R/D=1.5) OR MITERED ELBOWS WITH SINGLE THICKNESS TURNING VANES SHALL BE UTILIZED WHERE POSSIBLE. TURNING VANES SHALL BE SUPPORTED AT INTERVALS OF 36" MAXIMUM. TURNING VANE RUNNERS SHALL HAVE A VANE IN EVERY SLOT AND SHALL CONFORM TO SMACNA DUCT CONSTRUCTION STANDARDS FOR STANDARD SPACING.

INSULATED, FACTORY FABRICATED, FLEXIBLE DUCTWORK MAY BE UTILIZED AT RUNOUTS TO AIR DIFFUSERS WHERE DUCTWORK IS CONCEALED ABOVE CEILINGS. FLEXIBLE DUCTWORK SHALL CONSIST OF AN EXTERIOR REINFORCED LAMINATED VAPOR BARRIER, R-6.0 MINIMUM FIBERGLASS INSULATION AND INTERIOR VINYL LINER WITH SPRING STEEL WIRE HELIX. VINYL LINER SHALL NOT BE PERFORATED. FLEXIBLE DUCT ASSEMBLY SHALL HAVE A FLAME SPREAD/SMOKE DEVELOPED RATING OF 25/50 OR LESS. FLEXIBLE DUCT TO FLEXIBLE DUCT CONNECTIONS SHALL BE MADE WITH FACTORY FABRICATED STEEL COLLARS. FLEXIBLE DUCT SHALL BE SECURED TO RIGID DUCTWORK AND AIR DEVICES WITH SCREWS AND DRAWBANDS. LENGTH OF FLEXIBLE DUCTWORK SHALL BE LIMITED TO 5' AND SHALL NOT BE COMPRESSED. FLEXIBLE DUCTWORK SHALL NOT BE USED FOR ELBOWS. FLEXIBLE DUCT SHALL NOT BE USED ABOVE INACCESSIBLE CEILINGS. FLEXIBLE DUCT SHALL NOT PASS THROUGH WALLS.

ALL SUPPLY AND RETURN RECTANGULAR DUCTWORK SHALL BE PROVIDED WITH DUCT LINER (INSIDE THE DUCT): ONE INCH THICK, RESIN BONDED GLASS FIBER, IMMOBILIZED, EPA-REGISTERED ANTIMICROBIAL AGENT COATING ON AIR STREAM SURFACE, RATED BY MANUFACTURER FOR AT LEAST 4000 FPM AND MEETING THE REQUIREMENTS OF ASTM C1071 TYPE I. FIRE RESISTANCE SHALL MEET REQUIREMENTS OF NFPA 90A. FLAME SPREAD RATING NOT TO EXCEED 25. FUEL CONTRIBUTION AND SMOKE DEVELOPMENT NOT TO EXCEED 50. NOISE REDUCTION COEFFICIENT (NRC) OF NOT LESS THAN 0.60 WHEN TESTED IN ACCORDANCE WITH ASTM C423 USING AN "A" MOUNTING OR A MINIMUM OF 0.70 USING AN "F" MOUNTING. K VALUE NOT MORE THAN 0.26 BTUH PER SQUARE FOOT PER DEG. F AT 75 DEG. F OR AN "R" VALUE OF 4. MAXIMUM ABSOLUTE ROUGHNESS FACTOR PER FOOT OF .004

SUPPLY AND RETURN AIR DUCTWORK SHALL BE INSULATED WITH R-6 INSULATION WHEN LOCATED IN UNCONDITIONED SPACES WITHIN THE BUILDING ENVELOPE AND R-12 WHEN LOCATED OUTSIDE OF THE BUILDING. OUTSIDE AIR INTAKE DUCTS INSTALLED IN CONDITIONED AREAS SHALL BE INSULATED WITH R-3.5 INSULATION. DUCT INSULATION TO BE FLEXIBLE FIBERGLASS WITH FOIL SCRIM FACING. INSULATION SHALL HAVE A MAXIMUM CONDUCTIVITY, K-VALUE, OF 0.29 AT 75F AND HAVE FLAME SPREAD/SMOKE DEVELOPED RATING OF 25/50 OR LESS. INSULATION SHALL BE SECURED WITH WIRE TIES AT 12" ON CENTER OR WITH SELF-SEALING LAP AND TAPE JOINTS 3" ON CENTER AT FITTINGS. JOINTS SHALL BE COVERED WITH 3" WIDE FOIL REINFORCED KRAFT TAPE. ADHESIVE OR MECHANICAL FASTENERS SHALL BE USED WHERE NECESSARY TO PREVENT SAGGING. VAPOR BARRIER PENETRATIONS BY MECHANICAL FASTENERS SHALL BE SEALED WITH VAPOR BARRIER ADHESIVE. INSULATION SHALL STOP AND POINT AROUND ACCESS DOORS AND DAMPER OPERATORS TO ALLOW OPERATION WITHOUT DISTURBING WRAPPING.

DUCT HANGERS SHALL BE CONSTRUCTED OF GALVANIZED STEEL. DUCTS SHALL BE SUPPORTED AND CONNECTED TO THE STRUCTURE PER SMACNA DUCT CONSTRUCTION STANDARDS. HANGERS AND SUPPORTS FOR GREASE DUCT SHALL BE OF NONCOMBUSTIBLE MATERIALS. FLEXIBLE DUCTS SHALL BE SUPPORTED WITH GALVANIZED STRAPS.

AIR DEVICES SHALL BE AS SCHEDULED. EXPOSED SCREWS SHALL BE THE FINISHING TYPE AND PAINTED TO MATCH THE AIR DEVICE. SQUARE TO ROUND ADAPTORS SHALL BE PROVIDED WHERE REQUIRED FOR AIR DEVICES IN CEILINGS. AIR DEVICES SHALL BE FINISHED WITH WHITE BAKED ENAMEL UNLESS NOTED OTHERWISE. AIR DEVICES SHALL BE SECURED TO T-BAR CEILINGS WHERE APPLICABLE.

AN INDEPENDENT TEST AND BALANCE FIRM WHICH IS AABC OR NEBB CERTIFIED SHALL BE RETAINED FOR CHECK/TEST-START-UP AND TESTING AND BALANCING OF AIR AND WATER SYSTEMS. THE TEST REPORT SHALL BE IN A FORMAT APPROVED BY AABC FOR SYSTEMS OF THIS TYPE AND COMPLEXITY. QUALIFICATIONS OF INDEPENDENT TEST AND BALANCE FIRM SHALL BE SUBMITTED FOR REVIEW.

# GENERAL NOTES

1. ALL WORK SHALL BE INSTALLED IN ACCORDANCE WITH ALL APPLICABLE STATE CODES, LOCAL CODES, AND OWNER'S STANDARDS INDICATED BY THE CONSTRUCTION DOCUMENTS.
2. MECHANICAL DRAWINGS ARE DIAGRAMMATIC AND DO NOT NECESSARILY INDICATE EVERY REQUIRED OFFSET, FITTING, ETC. DRAWINGS ARE NOT TO BE SCALED FOR DIMENSIONS. TAKE ALL DIMENSIONS FROM ARCHITECTURAL DRAWINGS. CERTIFIED EQUIPMENT DRAWINGS AND FROM THE STRUCTURE ITSELF BEFORE FABRICATING ANY WORK. VERIFY ALL SPACE REQUIREMENTS COORDINATING WITH OTHER TRADES, AND INSTALL THE SYSTEMS IN THE SPACE PROVIDED WITHOUT EXTRA CHARGES TO THE OWNER.
3. CONTRACTOR SHALL COORDINATE WORK INDICATED WITH PLUMBING, ELECTRICAL, FIRE PROTECTION, STRUCTURAL, AND ARCHITECTURAL DIVISIONS.
4. PROVIDE ALL EQUIPMENT SCHEDULED OR INDICATED ON THE DRAWINGS BUT NOT INCLUDED WITHIN THE SPECIFICATIONS INCLUDING ANY REQUIRED BUT NOT LISTED MISC ITEMS NEEDED TO PROVIDE COMPLETELY OPERATIONAL SYSTEMS AS INDICATED WHETHER SPECIFICALLY CALLED FOR OR NOT. INSTALLATION SHALL CONFORM TO MANUFACTURERS RECOMMENDATIONS AND APPLICABLE CODES. PROVIDE SUBMITTALS FOR ALL PROPOSED EQUIPMENT AND MATERIALS TO BE UTILIZED. PROVIDE OPERATION AND MAINTENANCE MANUAL FOR ALL SYSTEMS AND EQUIPMENT AT END OF PROJECT.
5. ELECTRICAL CHARACTERISTICS OF MECHANICAL EQUIPMENT SHALL BE VERIFIED WITH ELECTRICAL DRAWINGS AND ELECTRICAL CONTRACTOR PRIOR TO EQUIPMENT ORDER RELEASE. ADDITIONAL ELECTRICAL WORK RESULTING FROM EQUIPMENT SUBSTITUTION IS THE RESPONSIBILITY OF THIS CONTRACTOR.
6. ITEM DESIGNATIONS INDICATED HEREON ARE FOR PURPOSES OF THESE DOCUMENTS ONLY. CONTRACTOR SHALL VERIFY WITH OWNERS REPRESENTATIVE ACTUAL "TAGGING" INFORMATION TO BE PROVIDED FOR EACH ITEM OF MECHANICAL EQUIPMENT PRIOR TO NAMEPLATE ORDER RELEASE.
7. DUCT SIZES INDICATED ARE OUTSIDE DIMENSIONS, BRANCH RUNOUT DUCTS TO DIFFUSERS AND GRILLES TO BE SAME SIZE AS DIFFUSER OR GRILLE CONNECTION SIZE UNLESS OTHERWISE NOTED.
8. LENGTH OF FLEXIBLE DUCTWORK SHALL BE LIMITED TO 5'-0" MAX. HORIZONTAL RUN WITH ONLY ONE 90° ELBOW PERMITTED. SECURE FLEXIBLE DUCTWORK WITH SCREWS & DRAWBANDS PER SMACNA STANDARDS.
9. CEILING DIFFUSERS SHALL BE 36" MINIMUM FROM CEILING MOUNTED SMOKE DETECTORS, COORDINATE WITH DIVISION 26.
10. REFER TO ARCHITECTURAL REFLECTED CEILING PLANS FOR ACTUAL LOCATION OF GRILLES, DIFFUSERS, AND ACCESS DOORS IN CEILING. SECURE DIFFUSERS & GRILLES TO T-BAR CEILINGS WHERE APPLICABLE. SUBMIT SHOP DWG. FOR APPROVAL PRIOR TO BEGINNING WORK.
11. DUCTWORK VISIBLE BEHIND DIFFUSERS, REGISTERS, OR GRILLES SHALL BE PAINTED FLAT BLACK.
12. AT THE COMPLETION OF WORK, PROVIDE TESTING AND BALANCING SERVICES FOR MECHANICAL SYSTEM. SUBMIT WRITTEN REPORT TO ARCHITECT LISTING SYSTEM AIRFLOWS, ELECTRIC DATA, TEMPERATURES, AND PRESSURE DROPS.
13. WHERE PIPES PASS THROUGH FIRE-RATED FLOOR OR WALLS, SEAL WITH MATERIALS EQUAL TO 3M FIRE BARRIER, MEETING TESTING PER ASTM-E-814 (UL 1479). USE CAULK OR PUTTY TYPE. ALL EXTERIOR WALL AND ROOF PENETRATIONS SHALL BE SEALED WATERPROOF.
14. AT THE COMPLETION OF THE WORK AND PRIOR TO FINAL ACCEPTANCE, ALL PARTS OF THE WORK INSTALLED UNDER THIS SPECIFICATION SHALL BE THOROUGHLY CLEANED.
15. ALL EQUIPMENT, MATERIALS, AND INSTALLATION IS TO BE WARRANTEED FOR ONE YEAR TO BE FREE FROM DEFECT. PROVIDE WRITTEN WARRANTY TO OWNER.
16. THE OWNER AND ENGINEER ARE NOT RESPONSIBLE FOR THE CONTRACTOR'S SAFETY PRECAUTIONS OR TO MEANS, METHODS, TECHNIQUES, CONSTRUCTION SEQUENCES, OR PROCEDURES REQUIRED TO PERFORM HIS WORK.
17. THIS CONTRACTOR SHALL FIELD VERIFY LOCATIONS AND SIZES OF ALL EXISTING EQUIPMENT, DUCTWORK, PIPING, ELECTRICAL CONDUIT, STRUCTURAL MEMBERS, ETC., PRIOR TO STARTING OF CONSTRUCTION. COORDINATE CONFLICTS WITH THE GENERAL CONTRACTOR.
18. THIS CONTRACTOR SHALL COORDINATE ALL REQUIRED EXISTING BUILDING SERVICE SYSTEM OUTAGES WITH BUILDING MANAGEMENT.
19. ALL MECHANICAL SYSTEMS ARE REQUIRED TO BE INSTALLED PER BASE BUILDING REQUIREMENTS, LOCAL AND STATE JURISDICTIONAL CODES, ORDINANCES, AND APPLICABLE REGULATIONS.
20. PATCH AND REPAIR TO MATCH EXISTING, ANY WALL/CEILINGS TO BE ACCESSED TO ROUTE PIPING AND DUCTWORK.
21. EXISTING DUCTWORK, PIPING, AND EQUIPMENT TO REMAIN IS SHOWN LIGHT. NEW DUCTWORK, PIPING, AND EQUIPMENT IS SHOWN HEAVY. EXISTING DUCTWORK, PIPING, AND EQUIPMENT TO BE REMOVED IS SHOWN WITH A HATCH OVER THE ITEM.

# SHEET INDEX


| ISSUE | SHEET NO. | SHEET DESCRIPTION |
|---|---|---|
| 08.10.2022 CD ISSUE | M-001 | MECHANICAL COVER SHEET |
| | M-102 | LEVEL 2 DEMO AND NEW MECHANICAL PLANS |
| | M-301 | MECHANICAL SCHEDULES |


# MECHANICAL LEGEND

| ABBR | SYMBOL | DESCRIPTION |
|---|---|---|
| HS | ——HS—— | HOT WATER SUPPLY |
| HR | ——HR—— | HOT WATER RETURN |
| T-STAT | T | THERMOSTAT |
| S | S | SPACE SENSOR W/ PLUG-IN PORT |
| MVD | | MANUAL VOLUME DAMPER |
| SA | | SUPPLY AIR |
| RA | | RETURN AIR |
| EA | | EXHAUST AIR |
| OA | | OUTSIDE AIR |
| SW | | SIDEWALL DIFFUSER |
| LD | | LINED DUCTWORK |
| DIFF | | DIFFUSER |
| GR | | GRILLE |
| MA | | MIXED AIR |
| AD | | ACCESS DOOR |
| SP | | STATIC PRESSURE |
| GBS | | GALVANIZED BIRD SCREEN |
| ESP | | EXTERNAL STATIC PRESSURE |
| VAV | | VARIABLE AIR VOLUME |
| WP | | WORKING PRESSURE |
| TSP | | TOTAL STATIC PRESSURE |
| WPD | | WATER PRESSURE DROP |
| EMCS | | ENERGY MANAGEMENT AND CONTROL SYSTEM |
| AFF | | ABOVE FINISHED FLOOR |
| E | | EXISTING |
| N | | NEW |
| R | | RELOCATED |
| | | POINT OF CONNECTION NEW TO EXISTING |

This sheet of drawings has not been reviewed for code compliance.


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COLORADO LICENSED PROFESSIONAL ENGINEER 39563 8-11-2022

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Project Information

**HCA Academic Residency Offices**
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Sheet Information

Sheet Title:
MECHANICAL COVER SHEET

Sheet Number:
M-001

MEC Project: 2022-080-01

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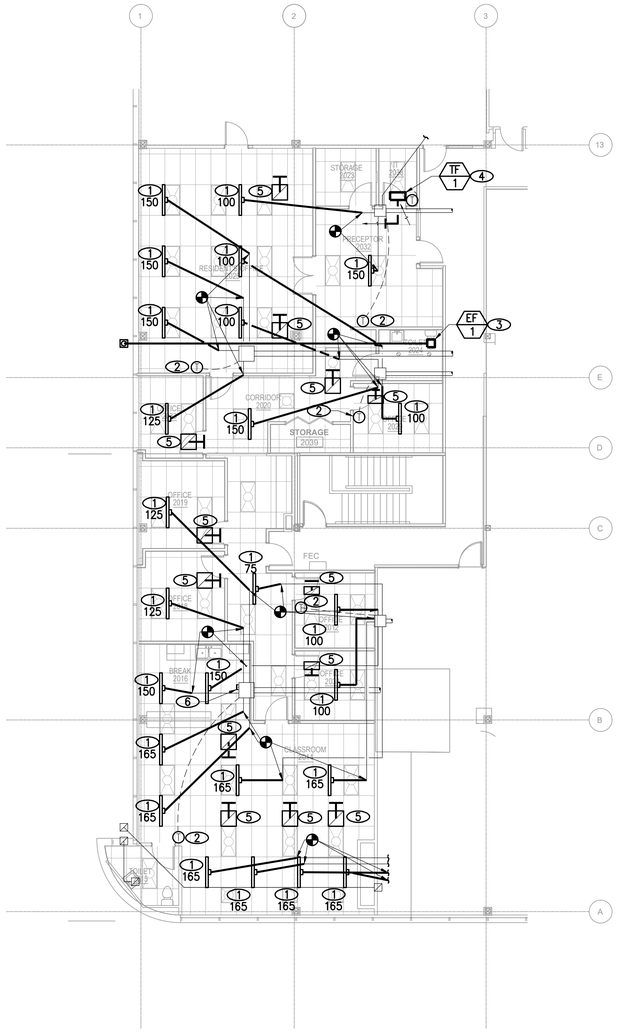
10/20/2022 10:30:20 AM

## KEYNOTES

1. NEW LOCATION FOR PREVIOUSLY REMOVED LINEAR SLOT DIFFUSER. MODIFY RUN-OUT DUCT AS REQUIRED TO MAKE CONNECTION AS INDICATED. BALANCE TO CFM INDICATED.
2. NEW LOCATION FOR PREVIOUSLY REMOVED THERMOSTAT. MOUNT ON WALL AT 60"AFF. (TYPICAL)
3. PROVIDE AND INSTALL NEW EXHAUST FAN. MOUNT FAN IN CEILING. TRANSITION FAN DISCHARGE TO 6"ø AND ROUTE DUCT AS SHOWN. TERMINATE WITH 6" WALL CAP MOUNTED IN UNDERSIDE OF SOFFIT.
4. PROVIDE AND INSTALL NEW TRANSFER FAN. MOUNT FAN IN CEILING. TRANSITION FAN DISCHARGE TO 6"ø AND DISCHARGE ABOVE CEILING AS INDICATED. MOUNT REVERSE ACTING THERMOSTAT ON WALL AS SHOWN AT 60"AFF. UNDERCUT DOOR 2" BY G.C.
5. NEW LOCATION FOR PREVIOUSLY REMOVED RA GRILLE. PROVIDE WITH HERCULES SOUNDBOOT #SB OR EQUAL IF SOUNDBOOT DOESN'T EXIST.
6. CAP TAP AND SEAL AIRTIGHT.

Plastic fire sprinkler piping exposed within a plenum shall be used only in wet pipe systems and shall have a maximum: peak optical density of 0.50; average optical density of 0.15; flame spread of 5 feet in accordance with UL 1887. Piping shall be listed and labeled.
**2015 IMC 602.2.1.2**

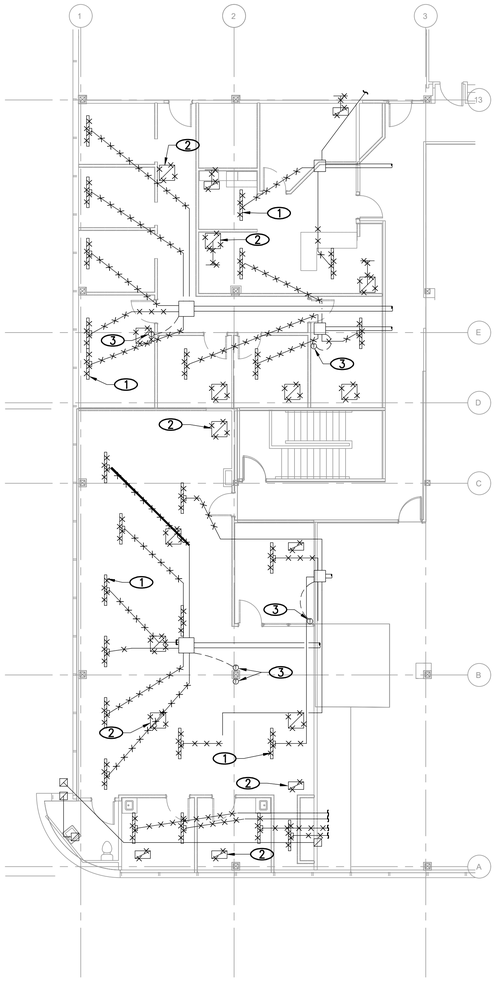
Provide proof of a flame spread less than 26 and a smoke development less than 50 for any material used in a plenum.
**2015 IMC 602.2.1**




## MECHANICAL NEW PLAN 2
1/8" = 1'-0" M102

## KEYNOTES

1. REMOVE EXISTING LINEAR SLOT SA DIFFUSER. SUSPEND FROM STRUCTURE. DIFFUSER TO BE REINSTALLED DURING NEW CONSTRUCTION PHASE OF JOB. (TYPICAL)
2. REMOVE EXISTING RA GRILLE. STOCKPILE ONSITE. GRILLE TO BE REINSTALLED DURING NEW CONSTRUCTION PHASE OF JOB. (TYPICAL)
3. REMOVE EXISTING THERMOSTAT FROM WALL. BAG, COIL WIRE AND SUSPEND FROM STRUCTURE. (TYPICAL)



## MECHANICAL DEMO PLAN 1
1/8" = 1'-0" M102

**OUTSIDE AIR VENTILATION CALCULATIONS**

| PROJECT: HCA ACADEMIC RESIDENCY OFFICE | | CODE: 2015 IMC | | | | SYSTEM: 2nd FLOOR | | | |
|---|---|---|---|---|---|---|---|---|---|
| ROOM | AREA (SQFT) | OCCUPANCY #/1000 SQFT | OCCUPANCY # PEOPLE | OSA PER (CFM) | AREA CFM/SQFT | Ez | TOTAL REQD OSA (CFM) | SUPPLY AIR (CFM) | % OSA |
| 2014 CLASSROOM | 710 | 35 | 25 | 10.0 | 0.06 | 0.80 | 366 | 1,500 | 24% |
| 2031 OFFICE | 95 | 0 | 0 | 5.0 | 0.06 | 0.80 | 7 | 100 | 7% |
| 2012 OFFICE | 100 | 5 | 1 | 5.0 | 0.06 | 0.80 | 14 | 100 | 14% |
| 2016 BREAK | 160 | 5 | 1 | 5.0 | 0.06 | 0.80 | 18 | 100 | 18% |
| 2018 OFFICE | 130 | 5 | 1 | 5.0 | 0.06 | 0.80 | 16 | 125 | 13% |
| 2019 OFFICE | 130 | 5 | 1 | 5.0 | 0.06 | 0.80 | 16 | 125 | 13% |
| HALL | 165 | 0 | 0 | 5.0 | 0.06 | 0.80 | 12 | 75 | 17% |
| 2033 OFFICE | 88 | 5 | 1 | 5.0 | 0.06 | 0.80 | 13 | 165 | 8% |
| 2029 OFFICE | 105 | 5 | 1 | 5.0 | 0.06 | 0.80 | 14 | 100 | 14% |
| 2023 OFFICE | 105 | 5 | 1 | 5.0 | 0.06 | 0.80 | 14 | 100 | 14% |
| 2020 CORRIDOR | 228 | 0 | 0 | 5.0 | 0.06 | 0.80 | 17 | 100 | 17% |
| 2025 RESIDENTS OFFICE | 665 | 5 | 4 | 5.0 | 0.06 | 0.80 | 75 | 750 | 10% |
| 2032 RECEPTOR | 187 | 30 | 6 | 5.0 | 0.06 | 0.80 | 52 | 200 | 26% |
| | | | | | | | | | |
| TOTALS | 2,868 | | 42 | | | | 634 | 3,540 | |

| SYSTEM CALCULATIONS | | | |
|---|---|---|---|
| SUPPLY AIR | 3,540 CFM | VENTILATION SYSTEM EFFICIENCY | 92% |
| TOTAL UNCORRECTED OSA REQD | 634 CFM | SYSTEM OCCUPANT DIVERSITY | 100% |
| AVERAGE OUTDOOR AIR % | 18% | CORRECTED SYSTEM MIN OUTDOOR AIR | 688 CFM |

**NOTES:**

Heating system shall be capable of maintaining 68 degrees F a 3'0" above the floor.
**2015 IMC 309, IRC 303.9 and IBC 1204.1**

Code violations that are found during inspection are required to be corrected. Permit issuance does not grant approval of a code violation. 2015 IBC 105.4.

City of Aurora Building Division
Reviewed for Code Compliance
Approved as Noted: *Y. Munoz*
Date: *Aug 23, 2022*
2015 INTERNATIONAL CODES & 2020 NEC

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**Stamp**

COLORADO LICENSED PROFESSIONAL ENGINEER BRIAN D. MOEN 37563
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|---|---|---|

**Project Information**

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**Sheet Information**

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LEVEL TWO - MECHANICAL DEMO AND NEW PLANS

Sheet Number:
M-102

MEC Project: 2022-080-01

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# FAN SCHEDULE

| ITEM | MANUFACTURER/ MODEL | LOCATION/ SERVICE | CFM | ESP | MAX FAN RPM | MAX FAN SONES | ELEC. DATA | | | MAXIMUM OPERATING WEIGHT (LBS) | OVERALL DIMENSIONS | NOTES |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | W/HP | VOLT | PH | | | |
| TF 1 | AIR KING/ AK300 | IT ROOM HEAT RELIEF | 300 | 0.1 | 857 | 0.8 | 69.5/– | 115 | 1 | 35 | 21.5"Wx12.75"Dx12.75"H | 1 2 |
| EF 1 | AIR KING/ BFQ110 | BATHROOM EXHAUST | 100 | 0.1 | 1625 | 3.5 | 72.5/– | 115 | 1 | 15 | 10.75"Wx8.25"Dx4.75"H | 3 |

NOTES:

1. FURNISH WITH ALUMINUM GRILLE, PLUGED DISCONNECT AND UNIT MOUNTED FAN SPEED CONTROLLER
2. PROVIDE WITH REVERSE ACTING THERMOSTAT, AND VIBRATION ISOLATION
3. INTERLOCK WITH LIGHTSWITCH, PROVIDE WITH VIBRATION ISOLATION AND PLUGGED DISCONNECT

City of Aurora Building Division
Reviewed for Code Compliance
Approved as Noted: *Y. Munoz*
Date: *Aug 23, 2022*
2015 INTERNATIONAL CODES & 2020 NEC

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Stamp

COLORADO LICENSED PROFESSIONAL ENGINEER
BRIAN D. MOEN
37563
8-11-2022

| Issuance | Date |
|---|---|
| CONSTRUCTION DOCUMENTS | 08.05.2022 |

| Revisions | Date | No. |
|---|---|---|

Project Information

**HCA Academic Residency Offices**
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Sheet Information

Sheet Title:
MECHANICAL SCHEDULES

Sheet Number:
M-301

MEC Project: 2022-080-01

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7/22/2022 10:30:25 AM

## CODES:

DESIGNED UNDER THE FOLLOWING CODES:
2020 NATIONAL ELECTRICAL CODE
2015 INTERNATIONAL BUILDING CODE
2015 INTERNATIONAL EXISTING BUILDING CODE
2015 INTERNATIONAL FIRE CODE
2015 INTERNATIONAL ENERGY CONSERVATION CODE

## ENERGY CODE NOTES:

1. THE LIGHTING AND ELECTRICAL SYSTEMS FOR THE PROJECT SHALL COMPLY WITH THE APPLICABLE SECTIONS OF 2021 IECC.
2. OCCUPANCY SENSORS SHALL BE PROVIDED AS REQUIRED FOR FULL COVERAGE OF THE AREA SHOWN. SPECIFIC NUMBER OF DEVICES AND MOUNTING LOCATIONS SHALL BE DETERMINED BY THE MANUFACTURER THAT IS SELECTED BY THE ELECTRICAL CONTRACTOR. LOCATIONS AND QUANTITIES OF SENSORS SHOWN ON THESE PLANS ARE FOR CONVEYING SWITCHING/CONTROL INTENT. PROVIDE ALL REQUIRED CONTROL UNITS AND ADD-A-RELAYS AS REQUIRED FOR A COMPLETE AND OPERABLE SYSTEM.

## ELECTRICAL SERVICE LOAD SUMMARY:

1. TOTAL NUMBER OF LIGHTING FIXTURES HAS BEEN REDUCED AND REPLACED WITH LED FIXTURES. LIGHTING LOAD HAS BEEN REDUCED BY 3210 WATTS.
2. EXISTING OUTLETS HAVE BEEN RE-USED AND A FEW MECHANICAL FANS HAVE BEEN ADDED. POWER LOAD HAS BEEN INCREASED BY 142 WATTS.
3. TOTAL ELECTRICAL LOAD ON THE BUILDINGS ELECTRICAL SERVICE AND ASSOCIATED PANELS HAS BEEN REDUCED BY 3068 WATTS.

## FIRE ALARM SYSTEM NOTES (CONTRACTOR DESIGN)

THE FIRE ALARM SYSTEM SHALL BE DESIGN/BUILD BY THE CONTRACTOR. DOCUMENTS SHALL BE PREPARED AND SUBMITTED TO OBTAIN APPROVAL OF MODIFICATIONS AND ADDITIONS TO THE EXISTING BUILDING FIRE ALARM SYSTEM. ALL FIRE ALARM SHOP DRAWINGS SHALL BE STAMPED AND SIGNED BY A REGISTERED PROFESSIONAL ENGINEER FOR THE CORRESPONDING STATE HAVING JURISDICTION. ALL DEVICES SHALL BE COMPATIBLE WITH THE EXISTING SYSTEM AND SHALL BE SO CERTIFIED. THE CONTRACTOR SHALL SUBMIT SHOP DRAWINGS THAT MEET THE REQUIREMENTS OF LOCAL JURISDICTION.

1. THE FIRE ALARM SYSTEM IS EXISTING TO BE FIELD VERIFIED. ALL DEVICES ADDED TO THE SYSTEM SHALL BE FULLY COMPATIBLE AND VERIFIED THAT EXISTING SYSTEM WILL BE ABLE TO ACCOMODATE ALL NEW DEVICES. PROVIDE ALL NECESSARY CONNECTION TO THE BASE BUILDING FIRE ALARM SYSTEM.
2. THE FIRE ALARM SYSTEM SHALL MEET ALL CODE, LOCAL JURISDICTIONAL REQUIREMENTS AND COMPLY WITH THE LATEST APPLICABLE PROVISIONS OF NFPA 70, NFPA 72, ADA 1990, ANSI 117.1, IBC, AND IFC, EXCEPT AS MODIFIED BY THE LOCAL JURISDICTION
3. THE FIRE ALARM SYSTEM SHALL INCLUDE BUT NOT BE LIMITED TO THE FOLLOWING: ADDRESSABLE DETECTION (HEAT SMOKE) DEVICES, NOTIFICATION DEVICES, MANUAL PULL-STATIONS, MAGNETIC DOOR HOLDER DEVICES, SMOKE DAMPER CONTROL (PER IBC), ETC.
4. DETECTORS SHALL BE LOCATED AND INSTALLED IN ACCORDANCE WITH NFPA 72 AND LOCAL JURISDICTIONAL REQUIREMENTS DETECTORS INSTALLED IN ANY CONCEALED LOCATIONS SHALL HAVE A REMOTE VISIBLE LED INDICATOR.
5. NOTIFICATION DEVICES SHALL BE LOCATED AS REQUIRED BY LOCAL CODE AT LEAST 80 INCHES FROM FINISHED FLOOR.
6. ALL RATED PENETRATIONS SHALL BE FIRE SEALED.
7. DETECTORS SPACING ON NON-CONTINUOUS PLANE CEILINGS SHALL BE ADJUSTED ACCORDING TO CODE AND LOCAL JURISDICTION.
8. LOCATE CORRIDOR DETECTORS TO LINE UP WITH LIGHT FIXTURES. KEEP DETECTORS 3' AWAY FROM AIR DIFFUSERS.
9. ALL FIRE ALARM WIRING MUST BE RUN IN APPROVED RACEWAY. EXPOSED PLENUM RATED WIRING WILL BE ALLOWED IN CEILING PLENUM WITH PRIOR APPROVAL OF BUILDING OWNER AND AUTHORITY HAVING JURISDICTION. EXPOSED WIRING WILL NOT BE ALLOWED DOWN WALL SURFACES.
10. STROBES SHALL BE SYNCHRONIZED.

## ELECTRICAL LEGEND

NOTE: NOT ALL SYMBOLS ARE NECESSARILY USED ON THIS PROJECT.

| | | | |
|---|---|---|---|
| | GROUNDED DUPLEX RECEPTACLE | | DELTA REVISION NOTE |
| USB | COMBO GROUNDED DUPLEX RECEPTACLE AND USB CHARGING PORT | | TWO WAY COMMUNICATION |
| | GROUNDED SWITCHED DUPLEX/QUAD RECEPTACLE | | FIRE ALARM ANNUNCIATOR |
| | GROUNDED SPLIT-WIRED RECEPTACLE | | FIRE ALARM PANEL |
| | GROUNDED SINGLE RECEPTACLE | | FIRE ALARM ANNUNCIATOR CONTROL PANEL |
| | FOUR PLEX RECEPTACLE | | MANUAL PULL STATION |
| | SPECIAL PURPOSE RECEPTACLE SUBSCRIPT = AMPACITY | | FIRE STROBE |
| | FLOOR MOUNTED SPECIAL PURPOSE RECEPTACLE | | FIRE HORN OR SPEAKER WITH STROBE |
| | CLOCK RECEPTACLE | | FIRE ALARM HORN & LIGHT |
| | FLOOR MOUNTED RECEPTACLE | | FIRE ALARM HORN |
| | FLOOR MOUNTED FOUR PLEX RECEPTACLE | | MAGNETIC DOOR HOLDER |
| | POWER ONLY POKE-THRU | | FIRE ALARM FLOW SWITCH |
| | POWER/DATA POKE-THRU | | TAMPER SWITCH |
| | MOTOR | | FIRE THERMAL DETECTOR |
| | PLUG MOLD | | SMOKE DETECTOR I = IONIZATION |
| | POWER/TELEPHONE POLE | SICO | P = PHOTOELECTRIC COMBINATION COSMOKE DETECTOR |
| | WIRELESS ACCESS POINT | | DUCT FIRE DETECTOR (RETURN) |
| | TELEPHONE OUTLET | | DUCT FIRE DETECTOR (SUPPLY) |
| | FLOOR MOUNTED TELEPHONE OUTLET | | REMOTE INDICATING LIGHT |
| | FLOOR MOUNTED TELEPHONE/DATA OUTLET | | FIRE / SMOKE DAMPER |
| | TELEPHONE/DATA OUTLET | | 120V. MOTORIZED SMOKE DAMPER |
| | DATA OUTLET | | VOLUME CONTROL |
| | FLOOR MOUNTED DATA OUTLET | | MICROPHONE RECEPTACLE |
| | SWITCH & RECEPTACLE COMBINATION | | WALL MOUNTED FIXTURE |
| | 1, 2, OR 3 BUTTON STATION | | RECESSED LIGHT FIXTURE |
| | TELEVISION OUTLET | | SURFACE MOUNTED LIGHT FIXTURE |
| | FLOOR MOUNTED TELEVISION OUTLET | | STRIP LIGHT FIXTURE |
| | JUNCTION BOX | | CEILING FIXTURE |
| | FLOOR MOUNTED JUNCTION BOX | | PORCELAIN LAMP HOLDER |
| | WALL MOUNTED J-BOX | | WALL WASHER |
| | BUZZER | | TRACK HEAD FIXTURE |
| | CHIME | | TRACK WITH TRACK HEAD FIXTURE |
| | COMBINATION STARTER/DISCONNECT SWITCH | | EMERGENCY FIXTURE - SHADED |
| | EQUIPMENT NON-FUSED DISCONNECT SWITCH | | WALL PACK FIXTURE |
| | EQUIPMENT FUSED DISCONNECT SWITCH | | SURFACE CEILING FIXTURE |
| | MAGNETIC CONTROLLER (STARTER) | | POLE MOUNTED FIXTURE |
| | ELECTRICAL PANELBOARD SURFACE MOUNTING | | BATTERY PACK EMERGENCY LIGHT |
| | ELECTRICAL PANELBOARD RECESSED MOUNTING | | EXIT LIGHT - SHADED INDICATES FACE |
| | TELEPHONE TERMINAL BOARD | | WALL MOUNTED OCCUPANCY SENSOR |
| | RESIDENTIAL COMMUNICATION CENTER | | CEILING MOUNTED OCCUPANCY SENSOR |
| | MAIN DISTRIBUTION PANEL | | CEILING MOUNTED VACANCY SENSOR |
| PB | PULL BOX | | SINGLE POLE SWITCH |
| MCC | MOTOR CONTROL CENTER | | DOUBLE POLE SWITCH |
| | METER | | 3-WAY SWITCH |
| | TRANSFORMER | | 4-WAY SWITCH |
| | RELAY | | SWITCH WITH INTEGRATED OCCUPANCY SENSOR |
| | CONTACTOR | | WALL MOUNTED VACANCY SENSOR SWITCH |
| | SOLENOID VALVE | | SWITCH & PILOT LAMP |
| | CARD READER | | KEY OPERATED SWITCH |
| | SPEAKER - PAGING AND OR SOUND SYSTEM | | DIMMER SWITCH |
| | THERMOSTAT | | THERMAL OVERLOAD SWITCH |
| | BATTERY | AFF | ABOVE FINISH FLOOR |
| | PHOTOCELL | AC | ABOVE COUNTER - VERIFY HEIGHT |
| | CIRCUIT BREAKER | AFCI | ARC-FAULT CIRCUIT INTERRUPTER |
| | BREAKER WITH DRAWOUT FEATURE | AG | ABOVE COUNTER/GROUND FAULT INTERRUPTING |
| | NORMALLY OPEN CONTACT | CCT | CIRCUIT |
| | NORMALLY CLOSED CONTACT | E | EXISTING TO REMAIN |
| | FUSED SWITCH | EC | ELECTRICAL CONTRACTOR |
| | POWER TRANSFORMER | EF | EXHAUST FAN |
| | CURRENT TRANSFORMER | ER | EXISTING TO BE RELOCATED |
| | GROUND | EX | EXISTING TO BE REMOVED |
| | CONDUIT UP | EWC | ELECTRICAL WATER COOLER |
| | CONDUIT DOWN | GFCI | GROUND FAULT INTERRUPTING |
| | CONDUIT CAP | HP | HOUSE PHONE |
| | CONDUIT CONTINUATION | IH | INSTA HOT |
| | HOMERUN ARROWS | (P) | PARTIAL CIRCUIT USED IN MULTIPLE LOCATIONS |
| | MECHANICAL EQUIPMENT DESIGNATION | (PART) | SAME AS (P) |
| M-XXX | DETAIL NOTE DESIGNATION | (S) | SURFACE MOUNTED DEVICE |
| K-XXX | KITCHEN EQUIPMENT DESIGNATION | TTB | TELEPHONE TERMINAL BOARD |
| XXXW | ELECTRICAL WIRE SIZE | UON | UNLESS OTHERWISE NOTED |
| | | WG | WEATHER PROOF/GROUND FAULT INTERRUPTING |
| | | WP | WEATHER PROOF |

## ELECTRICAL CONSTRUCTION SPECIFICATION

1. THE CONTRACTOR SHALL PROVIDE ALL LABOR AND MATERIAL NECESSARY FOR A COMPLETE AND FUNCTIONING ELECTRICAL SYSTEM.
2. MATERIALS AND INSTALLATION SHALL COMPLY WITH CODES, LAWS AND ORDINANCES OF FEDERAL, STATE AND LOCAL GOVERNING BODIES HAVING JURISDICTION.
3. MATERIALS AND EQUIPMENT SHALL BE LISTED AND/OR LABELED BY U.L., ETL, CSA OR ANOTHER RECOGNIZED TESTING LAB.
4. THE CONTRACTOR SHALL SECURE AND PAY FOR ALL PERMITS, GOVERNMENTAL FEES, TAXES AND LICENSES NECESSARY FOR THE PROPER EXECUTION AND COMPLETION OF THE ELECTRICAL WORK.
5. THE CONTRACTOR SHALL PREPARE AND SUBMIT TO GOVERNMENTAL AGENCIES AND UTILITY COMPANIES SHOP DRAWINGS, WHICH ARE REQUIRED BY THESE AGENCIES, FOR THEIR APPROVAL.
6. THE CONTRACTOR SHALL NOTIFY THE ARCHITECT/ENGINEER/OWNER OF ANY MATERIALS OR APPARATUS BELIEVED TO BE INADEQUATE, UNSUITABLE, IN VIOLATION OF LAWS, ORDINANCES, RULES OR REGULATIONS OF AUTHORITIES HAVING JURISDICTION.
7. THE CONTRACTOR SHALL PREPARE AND SUBMIT TO THE FIRE PREVENTION BUREAU THE DOCUMENTS, INCLUDING DRAWINGS, REQUIRED TO OBTAIN APPROVAL OF EMERGENCY LIGHTING AND EXIT SIGN TYPES AND LOCATIONS. A COPY OF THE APPROVED DRAWINGS SHALL BE PROVIDED TO THE ARCHITECT BEFORE THE START OF CONSTRUCTION.
8. THE CONTRACTOR SHALL PREPARE THE DOCUMENTS, INCLUDING DRAWINGS, REQUIRED TO OBTAIN APPROVAL OF THE EQUIPMENT AND LOCATIONS OF THE DEVICES THAT COMPRISE THE BUILDING FIRE ALARM LIFE SAFETY SYSTEM. A COPY OF THE DRAWINGS AND CUT SHEETS SHALL BE PROVIDED TO THE ENGINEER FOR REVIEW AND APPROVAL. THE APPROVED DRAWINGS WILL BE STAMPED, SIGNED AND RETURNED TO E.C. TO SUBMIT TO THE BUILDING DEPARTMENT.
9. THE CONTRACTOR SHALL CAREFULLY EXAMINE THE CONTRACT DOCUMENTS, VISIT THE SITE, AND THOROUGHLY BECOME FAMILIAR WITH THE BUILDING STANDARDS AND LOCAL CONDITIONS RELATING TO THE WORK. FAILURE TO DO SO WILL NOT RELIEVE THE CONTRACTOR OF THE OBLIGATIONS OF THE CONTRACT.
10. THE CONTRACTOR SHALL PROVIDE TEMPORARY POWER, LIGHTING, AND WIRING FOR THE PERFORMANCE OF ALL TRADES, FOR THE ENTIRE PERIOD OF CONSTRUCTION AND SHALL REMOVE ALL TEMPORARY LIGHTING AND WIRING AT THE COMPLETION OF CONSTRUCTION.
11. THE EXISTING POWER, SIGNAL AND COMMUNICATION SYSTEMS ARE TO REMAIN IN SERVICE TO PROVIDE FOR THE OWNER'S FUNCTION. SHOULD IT BECOME NECESSARY TO SHUT-DOWN ANY SYSTEM OR PORTION OF A SYSTEM, APPROVAL IN WRITING MUST BE OBTAINED FROM THE OWNER AND SHALL ONLY FOR THE PERIOD AND TIME AGREED UPON. THE BID IS TO INCLUDE THE COST OF ANY TEMPORARY WIRING AND PREMIUM TIME REQUIRED FOR THE SHUTDOWN.
12. ALL MATERIALS, AND EQUIPMENT SHALL BE ERECTED, INSTALLED, CONNECTED, CLEANED, ADJUSTED, TESTED, CONDITIONED, AND PLACED IN SERVICE IN ACCORDANCE WITH THE MANUFACTURER'S DIRECTIONS AND RECOMMENDATIONS. THIS INCLUDES ANY EXISTING MATERIALS OR EQUIPMENT THAT IS USED.
13. ALL CUTTING, DRILLING AND PATCHING OF MASONRY, STEEL OR IRON WORK BELONGING TO THE BUILDING MUST BE DONE BY THIS CONTRACTOR IN ORDER THAT HIS WORK MAY BE PROPERLY INSTALLED, BUT UNDER NO CONDITIONS MAY STRUCTURAL WORK BE CUT, EXCEPT AT THE DIRECTION OF THE ARCHITECT-DESIGNER OR THEIR REPRESENTATIVE.
14. REFER TO ARCHITECTURAL DRAWINGS FOR EXACT LOCATIONS AND MOUNTING HEIGHTS OF ELECTRICAL EQUIPMENT.
15. THE CONTRACTOR SHALL VERIFY THE CEILING TYPE BEFORE ORDERING LIGHTING FIXTURES.
16. ALL MATERIAL, EQUIPMENT, WIRING DEVICES, ETC. SHALL BE NEW, UNLESS SPECIFICALLY INDICATED AS EXISTING TO BE REUSED.
17. EXCEPT AS NOTED OTHERWISE, ALL WORK REQUIRED FOR THE INSTALLATION AS SHOWN ON DRAWINGS INCLUDING LABOR, EQUIPMENT AND MATERIALS SHALL BE IN STRICT COMPLIANCE WITH THE BUILDING STANDARDS.
18. PROVIDE COMPLETE METAL RACEWAY SYSTEMS AND ENCLOSURES FOR ALL WIRING THROUGHOUT THE EXTENT OF THE REQUIRED SYSTEM.
19. ELECTRICAL METALLIC TUBING (EMT) SHALL BE USED FOR ALL WALL OUTLETS & TELEPHONE OUTLETS RUNNING IN PARTITIONS, BELOW RAISED FLOOR OR ABOVE CEILINGS. EMT FITTINGS SHALL BE OF THE STEEL COMPRESSION TYPE, EXCEPT THAT SET SCREW FITTINGS MAY BE USED IN WALL PARTITIONS. CONDUITS LARGER THAN 2" DIAMETER OR CONDUITS OF ANY SIZE ROUTED OUTDOORS SHALL BE INTERMEDIATE METAL CONDUIT (IMC). CAST OR INDENTOR TYPE FITTINGS ARE NOT ALLOWED. PLENUM RATED TELEPHONE AND LOW VOLTAGE CONDUCTORS MAY RUN EXPOSED ABOVE GRID CEILING IN A CABLE SUPPORT SYSTEM, UNLESS NOTED OTHERWISE INDICATED ON PLANS.
20. MC CABLE SHALL BE PERMITTED ONLY IF BUILDING STANDARDS AND AUTHORITY HAVING JURISDICTION ALLOW. USE OF MC CABLE SHALL COMPLY WITH REQUIREMENTS AND LIMITATIONS DESCRIBED BY THE MOST CURRENT APPLICABLE N.E.C.
21. MINIMUM CONDUIT SIZE SHALL BE 1/2 INCH UNLESS OTHERWISE INDICATED.
22. FLEXIBLE CONDUIT CONNECTIONS TO RECESSED LIGHTING FIXTURES SHALL BE MADE WITH FLEXIBLE STEEL CONDUIT, 3/8 INCH MINIMUM.
23. WIRE NO. 8 AND SMALLER FOR USE IN INTERIOR DRY LOCATIONS SHALL BE TYPE THWN/THNN THERMOPLASTIC 600 VOLT INSULATED COPPER CONDUCTORS. FEEDERS AND POWER WIRING NO. 6 OR LARGER SHALL BE TYPE THWN 600 VOLT INSULATED COPPER. WIRE WHICH IS INSTALLED IN RACEWAYS IN MOIST OR DAMP LOCATIONS SHALL BE TYPE XHHW, 600 VOLT INSULATED COPPER CONDUCTORS. NO WIRE SMALLER THAN NO. 12 AWG SHALL BE USED FOR LIGHTING OR POWER WIRING. WIRE NO. 10 AND SMALLER MAY BE SOLID OR STRANDED, WIRE NO. 8 AND LARGER SHALL BE STRANDED.
24. ALL NEW CIRCUIT BREAKERS FOR NEW OR EXISTING PANELBOARDS SHALL MATCH EXISTING BUILDING PANELBOARD MANUFACTURER AND BREAKER TYPE. THE CONTRACTOR SHALL PROVIDE NEW TYPE WRITTEN PANEL DIRECTORIES FOR ALL NEW PANELS CHANGED.
25. EACH SWITCH, LIGHT, RECEPTACLE AND OTHER MISCELLANEOUS DEVICE SHALL BE PROVIDED WITH A GALVANIZED OR SHERARDIZED PRESSED STEEL OUTLET BOX OF THE KNOCKOUT TYPE, OF NOT LESS THAN NO. 14 U.S. GAUGE STEEL. CONDUITS SHALL BE FASTENED WITH LOCKNUTS AND BUSHINGS AND ALL UNUSED KNOCKOUTS MUST BE LEFT SEALED. THERE MUST BE SUFFICIENT ROOM FOR WIRES AND BUSHINGS AND DEEP BOXES SHALL BE INSTALLED WHERE REQUIRED. BOXES SHALL BE SECURELY AND ADEQUATELY SUPPORTED.
26. ELECTRICAL CONTRACTOR SHALL PROVIDE ALL SPECIAL OUTLET BOXES THAT MAY BE REQUIRED TO ENCLOSE RECEPTACLES.
27. IN SUSPENDED CEILINGS SUPPORT CONDUIT AND JUNCTION BOXES DIRECT FROM THE STRUCTURAL SLAB, DECK, OR FRAMING PROVIDED FOR THAT PURPOSE. LIGHTING BRANCH CIRCUIT CONDUITS SHALL NOT BE CLIPPED TO THE CEILING SUPPORT WIRES OR SPLINE UNLESS THE CEILING SYSTEM HAS BEEN SPECIFICALLY DESIGNED FOR THAT PURPOSE.
28. ALL OCCUPANCY/VACANCY CEILING SENSORS AND WALL SWITCHES SHALL BE DUAL TECHNOLOGY TYPE.
29. WHERE FLOOR FITTINGS REQUIRE PENETRATION OF THE FLOOR SLAB, THEY SHALL BE STANDARD DEVICE LISTED BY UL FOR THE PURPOSE AND HAVE A UL FIRE RATING EQUAL TO THE FLOOR RATING.
30. CONTRACTOR SHALL WIRE TO, SET AND CONNECT ALL MOTORS, CONTROLS AND EQUIPMENT. FINAL CONNECTIONS TO MOTORS SHALL BE MADE WITH LIQUID TIGHT FLEXIBLE STEEL CONDUIT, 1/2 INCH MINIMUM.
31. PROVIDE LOCAL DISCONNECT SWITCHES FOR ALL MOTORS (PLENUM APPROVED AS REQUIRED), PROVIDE ENCLOSED, HEAVY-DUTY, FUSIBLE OR NON-FUSIBLE SAFETY SWITCHES WHERE REQUIRED BY CODE AND AS SPECIFIED. PROVIDE FUSE REJECTION KITS FOR ALL FUSIBLE SWITCHES RATED 600 AMPERES AND BELOW.
32. NUMBERED CIRCUITS AND RACEWAY ROUTINGS ARE FOR CONVENIENCE OF DESIGN ONLY. ACTUAL FIELD CONDITIONS WILL VARY. INDICATE THE CIRCUIT NUMBER USED ON THE "AS-BUILT" DRAWINGS.
33. G.C. SHALL INCLUDE IN HIS COST THE REMOVAL OF ALL EXISTING ELECTRICAL DEVICES, CONDUITS, FIXTURES AND EQUIPMENT. DISCARD ALL EQUIPMENT AS REQUIRED. E.C. SHALL BE RESPONSIBLE FOR DISCONNECTING PRIMARY SERVICE AND TEMPORARY POWER.
34. CONTRACTOR SHALL COORDINATE WITH MECHANICAL AND PLUMBING DRAWINGS, AND INFORM ARCHITECT/ENGINEER OF ANY CONFLICTS.
35. PROVIDE "AS-BUILT" DRAWINGS AND SUBMIT TO OWNER.
36. ALL ELECTRICAL DEVICES SHALL MEET ADA REQUIREMENTS.
37. CONTRACTOR SHALL ENSURE ORIGINAL CIRCUIT INTEGRITY IS MAINTAINED WHEREVER A DEVICE IS REMOVED, RELOCATED OR RECIRCUITED. ORIGINAL CIRCUIT INTEGRITY SHALL BE MAINTAINED BOTH UP AND DOWN STREAM OF THE DEVICE.
38. CONTRACTOR SHALL REMOVE ALL DEENERGIZED OR UNUSED CIRCUIT WIRING UNLESS INDICATED OTHERWISE ON PLANS.
39. SUBMIT ELECTRONIC COPIES OF THE FOLLOWING SHOP DRAWINGS FOR REVIEW.
    A. LIGHTING FIXTURES AND LAMPS.
    B. DIMMING EQUIPMENT.
    C. WIRING DEVICES, SWITCHES, DIMMERS, AND DEVICE PLATES.
    E. PROVIDE "AS-BUILT" DRAWINGS AND SUBMIT TO ARCHITECT/DESIGNER.
40. SHOP DRAWINGS SHALL INCLUDE MANUFACTURER'S NAMES, CATALOG NUMBERS, CUTS, DIAGRAMS AND OTHER SUCH DESCRIPTIVE DATA AS MAY BE REQUIRED TO IDENTIFY AND REVIEW THE EQUIPMENT. SUBMITTALS SHALL BE IN LOGICAL GROUPS, FOR EXAMPLE; ALL LIGHTING FIXTURES, PARTIAL SUBMITTALS WILL NOT BE REVIEWED.

### EXISTING PANEL "RP2A"

8/13/2022 — 120 / 208 VOLT — 3 PHASE — 4 WIRE SERVICE — SEE NOTES BELOW
BUS RATING: 225A — MAIN: MLO — MOUNTING: SURFACE
LOCATION: LEVEL 2 ELEC ROOM — PROJECT: SUITE 200 / 250
COMMENTS: EXISTING — JOB NO.: 2022-055-00

| TYPE | NOTE | DESCRIPTION | BRKR | CCT | LOAD | Ø | LOAD | CCT | BRKR | DESCRIPTION | NOTE | TYPE |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | EXISTING LOAD | 20/1 | 1 | 0 | A | 0 | 2 | 20/1 | EXISTING LOAD | | |
| | | EXISTING LOAD | 20/1 | 3 | 0 | B | 0 | 4 | 20/1 | EXISTING LOAD | | |
| | | EXISTING LOAD | 20/1 | 5 | 0 | C | 0 | 6 | 20/1 | EXISTING LOAD | | |
| | | EXISTING LOAD | 20/1 | 7 | 0 | A | 0 | 8 | 20/1 | EXISTING LOAD | | |
| | | EXISTING LOAD | 20/1 | 9 | 0 | B | 0 | 10 | 20/1 | EXISTING LOAD | | |
| | | EXISTING LOAD | 20/1 | 11 | 0 | C | 0 | 12 | 20/1 | EXISTING LOAD | | |
| | | EXISTING LOAD | 20/1 | 13 | 0 | A | 0 | 14 | 20/1 | EXISTING LOAD | | |
| | | EXISTING LOAD | 20/1 | 15 | 0 | B | 0 | 16 | 20/1 | EXISTING LOAD | | |
| | | EXISTING LOAD | 20/1 | 17 | 0 | C | 0 | 18 | 20/1 | EXISTING LOAD | | |
| | | EXISTING LOAD | 20/1 | 19 | 0 | A | 0 | 20 | 20/1 | EXISTING LOAD | | |
| | | EXISTING LOAD | 20/1 | 21 | 0 | B | 0 | 22 | 20/1 | EXISTING LOAD | | |
| | | EXISTING LOAD | 20/1 | 23 | 0 | C | 0 | 24 | 20/1 | EXISTING LOAD | | |
| | | EXISTING LOAD | 20/1 | 25 | 0 | A | 0 | 26 | 20/1 | EXISTING LOAD | | |
| | | EXISTING LOAD | 20/1 | 27 | 0 | B | 0 | 28 | 20/1 | EXISTING LOAD | | |
| | | EXISTING LOAD | 20/1 | 29 | 0 | C | 0 | 30 | 20/1 | EXISTING LOAD | | |
| | | EXISTING LOAD | 20/1 | 31 | 0 | A | 0 | 32 | 20/1 | EXISTING LOAD | | |
| | | EXISTING LOAD | 20/1 | 33 | 0 | B | 0 | 34 | 20/1 | EXISTING LOAD | | |
| | | EXISTING LOAD | 20/1 | 35 | 0 | C | 0 | 36 | 20/1 | EXISTING LOAD | | |
| | | EXISTING LOAD | 20/1 | 37 | 0 | A | 0 | 38 | 20/1 | EXISTING LOAD | | |
| | | EXISTING LOAD | 20/1 | 39 | 0 | B | 0 | 40 | 20/1 | EXISTING LOAD | | |
| | | EXISTING LOAD | 20/1 | 41 | 0 | C | 0 | 42 | 20/1 | EXISTING LOAD | | |

| | CONNECTED VA A | B | C | D.F. | DEMAND VA A | B | C |
|---|---|---|---|---|---|---|---|
| CONTINUOUS / LIGHTING | 0 | 0 | 0 | 1.25 | 0 | 0 | 0 |
| RECEPT. (FIRST 10 KW) | 0 | 0 | 0 | 1.00 | 0 | 0 | 0 |
| RECEPT. (REMAINDER) | 0 | 0 | 0 | 0.50 | 0 | 0 | 0 |
| MOTORS | 0 | 0 | 0 | 1.00 | 0 | 0 | 0 |
| LARGEST MOTOR | | | | 1.25 | 0 | 0 | 0 |
| KITCHEN | 0 | 0 | 0 | 1.00 | 0 | 0 | 0 |
| MISCELLANEOUS | 0 | 0 | 0 | 1.00 | 0 | 0 | 0 |
| TOTAL | 0 | 0 | 0 | | 0 | 0 | 0 |
| TOTAL DEMAND VA | | | | | 0 | VA | |
| TOTAL DEMAND AMPS | | | | | 0.0 | AMPS | |

THIS PANELS TOTAL LOAD INCLUDES THE FOLLOWING LOADS:
SUBFEED BRKR 1: 0 VA, 0.0 AMPS
SUBFEED BRKR 2: 0 VA, 0.0 AMPS
FEED THRU PANEL DESIGNATION:
0 VA, 0.0 AMPS

C = CONTINUOUS/LIGHTING R = RECEPTACLE M = MOTOR K = KITCHEN E = MISCELLANEOUS

NOTES:
1. EXISTING PANEL SHOWN FOR REFERENCE. CONTRACTOR UPON COMPLETION OF THE JOB CONTRACTOR SHALL UPDATE THE PANEL DIRECTORY.
2. CONTRACTOR SHALL CONTACT THE ENGINEER OF RECORD IF THERE ARE ANY CONCERNS.

### EXISTING PANEL "LP2"

8/13/2022 — 277 / 480 VOLT — 3 PHASE — 4 WIRE SERVICE — SEE NOTES BELOW
BUS RATING: 225A — MAIN: MLO — MOUNTING: SURFACE
LOCATION: LEVEL 2 ELEC ROOM — PROJECT: SUITE 200 / 250
COMMENTS: EXISTING — JOB NO.: 2022-055-00

| TYPE | NOTE | DESCRIPTION | BRKR | CCT | LOAD | Ø | LOAD | CCT | BRKR | DESCRIPTION | NOTE | TYPE |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | EXISTING LOAD | 20/1 | 1 | 0 | A | 0 | 2 | 20/1 | EXISTING LOAD | | |
| | | EXISTING LOAD | 20/1 | 3 | 0 | B | 0 | 4 | 20/1 | EXISTING LOAD | | |
| | | EXISTING LOAD | 20/1 | 5 | 0 | C | 0 | 6 | --- | BUSSED SPACE | | |
| | | EXISTING LOAD | 20/1 | 7 | 0 | A | 0 | 8 | 20/1 | EXISTING LOAD | | |
| | | EXISTING LOAD | 20/1 | 9 | 0 | B | 0 | 10 | 20/1 | EXISTING LOAD | | |
| | | EXISTING LOAD | 20/1 | 11 | 0 | C | 0 | 12 | 20/1 | EXISTING LOAD | | |
| | | EXISTING LOAD | 20/1 | 13 | 0 | A | 0 | 14 | 20/1 | EXISTING LOAD | | |
| | | EXISTING LOAD | 20/1 | 15 | 0 | B | 0 | 16 | 20/1 | EXISTING LOAD | | |
| | | EXISTING LOAD | 20/1 | 17 | 0 | C | 0 | 18 | 20/1 | EXISTING LOAD | | |
| | | EXISTING LOAD | 20/1 | 19 | 0 | A | 0 | 20 | 30/1 | EXISTING LOAD | | |
| | | EXISTING LOAD | 20/1 | 21 | 0 | B | 0 | 22 | 20/1 | EXISTING LOAD | | |
| | | EXISTING LOAD | 20/3 | 23 | 0 | C | 0 | 24 | 20/1 | EXISTING LOAD | | |
| | | --- | --- | 25 | 0 | A | 0 | 26 | 20/3 | EXISTING LOAD | | |
| | | --- | --- | 27 | 0 | B | 0 | 28 | --- | --- | | |
| | | BUSSED SPACE | --- | 29 | 0 | C | 0 | 30 | --- | --- | | |
| | | BUSSED SPACE | --- | 31 | 0 | A | 0 | 32 | 30/3 | EXISTING LOAD | | |
| | | BUSSED SPACE | --- | 33 | 0 | B | 0 | 34 | --- | --- | | |
| | | BUSSED SPACE | --- | 35 | 0 | C | 0 | 36 | --- | --- | | |
| | | BUSSED SPACE | --- | 37 | 0 | A | 0 | 38 | --- | BUSSED SPACE | | |
| | | BUSSED SPACE | --- | 39 | 0 | B | 0 | 40 | --- | BUSSED SPACE | | |
| | | BUSSED SPACE | --- | 41 | 0 | C | 0 | 42 | --- | BUSSED SPACE | | |

| | CONNECTED VA A | B | C | D.F. | DEMAND VA A | B | C |
|---|---|---|---|---|---|---|---|
| CONTINUOUS / LIGHTING | 0 | 0 | 0 | 1.25 | 0 | 0 | 0 |
| RECEPT. (FIRST 10 KW) | 0 | 0 | 0 | 1.00 | 0 | 0 | 0 |
| RECEPT. (REMAINDER) | 0 | 0 | 0 | 0.50 | 0 | 0 | 0 |
| MOTORS | 0 | 0 | 0 | 1.00 | 0 | 0 | 0 |
| LARGEST MOTOR | | | | 1.25 | 0 | 0 | 0 |
| KITCHEN | 0 | 0 | 0 | 1.00 | 0 | 0 | 0 |
| MISCELLANEOUS | 0 | 0 | 0 | 1.00 | 0 | 0 | 0 |
| TOTAL | 0 | 0 | 0 | | 0 | 0 | 0 |
| TOTAL DEMAND VA | | | | | 0 | VA | |
| TOTAL DEMAND AMPS | | | | | 0.0 | AMPS | |

THIS PANELS TOTAL LOAD INCLUDES THE FOLLOWING LOADS:
SUBFEED BRKR 1: 0 VA, 0.0 AMPS
SUBFEED BRKR 2: 0 VA, 0.0 AMPS
FEED THRU PANEL DESIGNATION:
0 VA, 0.0 AMPS

C = CONTINUOUS/LIGHTING R = RECEPTACLE M = MOTOR K = KITCHEN E = MISCELLANEOUS

NOTES:
1. EXISTING PANEL SHOWN FOR REFERENCE. CONTRACTOR UPON COMPLETION OF THE JOB CONTRACTOR SHALL UPDATE THE PANEL DIRECTORY.
2. CONTRACTOR SHALL CONTACT THE ENGINEER OF RECORD IF THERE ARE ANY CONCERNS.

### EXISTING PANEL "RP2B"

8/13/2022 — 120 / 208 VOLT — 3 PHASE — 4 WIRE SERVICE — SEE NOTES BELOW
BUS RATING: 225A — MAIN: MLO — MOUNTING: SURFACE
LOCATION: LEVEL 2 ELEC ROOM — PROJECT: SUITE 200 / 250
COMMENTS: EXISTING — JOB NO.: 2022-055-00

| TYPE | NOTE | DESCRIPTION | BRKR | CCT | LOAD | Ø | LOAD | CCT | BRKR | DESCRIPTION | NOTE | TYPE |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | EXISTING LOAD | 30/1 | 1 | 0 | A | 0 | 2 | 20/1 | EXISTING LOAD | | |
| | | EXISTING LOAD | 30/1 | 3 | 0 | B | 0 | 4 | 20/1 | EXISTING LOAD | | |
| | | EXISTING LOAD | 30/1 | 5 | 0 | C | 0 | 6 | 20/1 | EXISTING LOAD | | |
| | | EXISTING LOAD | 20/1 | 7 | 0 | A | 0 | 8 | 20/1 | EXISTING LOAD | | |
| | | EXISTING LOAD | 30/1 | 9 | 0 | B | 0 | 10 | 20/1 | EXISTING LOAD | | |
| | | EXISTING LOAD | 20/1 | 11 | 0 | C | 0 | 12 | 20/1 | EXISTING LOAD | | |
| | | EXISTING LOAD | 20/1 | 13 | 0 | A | 0 | 14 | 20/1 | EXISTING LOAD | | |
|

| Section # & Req.ID | Rough-In Electrical Inspection | Complies? | Comments/Assumptions |
|---|---|---|---|
| C405.2.1 [EL15][3] | Lighting controls installed to uniformly reduce the lighting load by at least 50%. | ☐Complies ☐Does Not ☐Not Observable ☐Not Applicable | Requirement will be met. |
| C405.2.1 [EL18][3] | Occupancy sensors installed in required spaces. | ☐Complies ☐Does Not ☐Not Observable ☐Not Applicable | Requirement will be met. |
| C405.2.1, C405.2.2.3 [EL23][3] | Independent lighting controls installed per approved lighting plans and all manual controls readily accessible and visible to occupants. | ☐Complies ☐Does Not ☐Not Observable ☐Not Applicable | Requirement will be met. |
| C405.2.2.1 [EL22][3] | Automatic controls to shut off all building lighting installed in all buildings. | ☐Complies ☐Does Not ☐Not Observable ☐Not Applicable | Requirement will be met. |
| C405.2.3 [EL16][3] | Daylight zones provided with individual controls that control the lights independent of general area lighting. | ☐Complies ☐Does Not ☐Not Observable ☐Not Applicable | Requirement will be met. |
| C405.2.3, C405.2.3.1, C405.2.3.2 [EL20][3] | Primary sidelighted areas are equipped with required lighting controls. | ☐Complies ☐Does Not ☐Not Observable ☐Not Applicable | |
| C405.2.3, C405.2.3.1, C405.2.3.3 [EL21][3] | Enclosed spaces with daylight area under skylights and rooftop monitors are equipped with required lighting controls. | ☐Complies ☐Does Not ☐Not Observable ☐Not Applicable | **Exception:** Requirement does not apply. |
| C405.2.4 [EL4][3] | Separate lighting control devices for specific uses installed per approved lighting plans. | ☐Complies ☐Does Not ☐Not Observable ☐Not Applicable | Requirement will be met. |
| C405.2.4 [EL8][3] | Additional interior lighting power allowed for special functions per the approved lighting plans and is automatically controlled and separated from general lighting. | ☐Complies ☐Does Not ☐Not Observable ☐Not Applicable | Requirement will be met. |
| C405.3 [EL6][3] | Exit signs do not exceed 5 watts per face. | ☐Complies ☐Does Not ☐Not Observable ☐Not Applicable | Requirement will be met. |

**Additional Comments/Assumptions:**

1 High Impact (Tier 1) 2 Medium Impact (Tier 2) 3 Low Impact (Tier 3)



| Section # & Req.ID | Final Inspection | Complies? | Comments/Assumptions |
|---|---|---|---|
| C303.3, C408.2.5.2 [FI17][3] | Furnished O&M instructions for systems and equipment to the building owner or designated representative. | ☐Complies ☐Does Not ☐Not Observable ☐Not Applicable | Requirement will be met. |
| C405.4.1 [FI18][3] | Interior installed lamp and fixture lighting power is consistent with what is shown on the approved lighting plans, demonstrating proposed watts are less than or equal to allowed watts. | ☐Complies ☐Does Not ☐Not Observable ☐Not Applicable | *See the Interior Lighting fixture schedule for values.* |
| C408.2.5.1 [FI16][3] | Furnished as-built drawings for electric power systems within 90 days of system acceptance. | ☐Complies ☐Does Not ☐Not Observable ☐Not Applicable | Requirement will be met. |
| C408.3 [FI33][3] | Lighting systems have been tested to ensure proper calibration, adjustment, programming, and operation. | ☐Complies ☐Does Not ☐Not Observable ☐Not Applicable | Requirement will be met. |

**Additional Comments/Assumptions:**

1 High Impact (Tier 1) 2 Medium Impact (Tier 2) 3 Low Impact (Tier 3)



**COMcheck Software Version COMcheckWeb**

# Interior Lighting Compliance Certificate

**Project Information**

Energy Code: 2015 IECC
Project Title: Suite 200
Project Type: New Construction

Construction Site:
1400 S. Potomac, Suite 200
Arura, Colorado 80012

Owner/Agent:
Colorado

Designer/Contractor:
kevin stegeman
mv consulting
4640 Pecos St
Denver, Colorado 80211
3033253271
kevin@mv-c.net

**Additional Efficiency Package(s)**

Credits: 1.0 Required 1.0 Proposed
Reduced Lighting Power, 1.0 credit

**Allowed Interior Lighting Power**

| A Area Category | B Floor Area (ft2) | C Allowed Watts / ft2 | D Allowed Watts |
|---|---|---|---|
| 1-Office | 3301 | 0.74 | 2436 |
| | | Total Allowed Watts = | 2436 |

**Proposed Interior Lighting Power**

| A Fixture ID : Description / Lamp / Wattage Per Lamp / Ballast | B Lamps/ Fixture | C # of Fixture | D Fixture Watt. | E (C X D) |
|---|---|---|---|---|
| 1-Office | | | | |
| LED: D1: DOWNLIGHT: Other: | 1 | 2 | 10 | 20 |
| LED: T1: 2X4 TROFFER: Other: | 1 | 40 | 38 | 1536 |
| LED: T2: 2X2 TROFFER: Other: | 1 | 4 | 26 | 105 |
| | | | Total Proposed Watts = | 1661 |

**Interior Lighting PASSES: Design 32% better than code**

**Interior Lighting Compliance Statement**

Compliance Statement: The proposed interior lighting design represented in this document is consistent with the building plans, specifications, and other calculations submitted with this permit application. The proposed interior lighting systems have been designed to meet the 2015 IECC requirements in COMcheck Version COMcheckWeb and to comply with any applicable mandatory requirements listed in the Inspection Checklist.

Kevin Stegeman — Name - Title
Kevin Stegeman — Signature
08-09-2022 — Date



**COMcheck Software Version COMcheckWeb**

# Inspection Checklist

Energy Code: 2015 IECC

Requirements: 92.0% were addressed directly in the COMcheck software

Text in the "Comments/Assumptions" column is provided by the user in the COMcheck Requirements screen. For each requirement, the user certifies that a code requirement will be met and how that is documented, or that an exception is being claimed. Where compliance is itemized in a separate table, a reference to that table is provided.

| Section # & Req.ID | Plan Review | Complies? | Comments/Assumptions |
|---|---|---|---|
| C103.2 [PR4][3] | Plans, specifications, and/or calculations provide all information with which compliance can be determined for the interior lighting and electrical systems and equipment and document where exceptions to the standard are claimed. Information provided should include interior lighting power calculations, wattage of bulbs and ballasts, transformers and control devices. | ☐Complies ☐Does Not ☐Not Observable ☐Not Applicable | Requirement will be met. |
| C406 [PR9][3] | Plans, specifications, and/or calculations provide all information with which compliance can be determined for the additional energy efficiency package options. | ☐Complies ☐Does Not ☐Not Observable ☐Not Applicable | |

**Additional Comments/Assumptions:**

1 High Impact (Tier 1) 2 Medium Impact (Tier 2) 3 Low Impact (Tier 3)



Code violations that are found during inspection are required to be corrected. Permit issuance does not grant approval of a code violation.

Field Inspection consultation is available upon request. Call 303-739-7420 to request a consultation

This work must also comply with **2015 IECC.**

City of Aurora Building Division
Reviewed for Code Compliance
Approved as Noted: *Erick M. Bumpass*
Date: *Aug 22, 2022*
2015 INTERNATIONAL CODES & 2020 NEC

RSN: *1652123*
Permit #: *22-2201757*

DAVIS PARTNERSHIP ARCHITECTS
Denver | 2901 Blake Street, Suite 100 Denver, CO 80205 303.861.8555
Virginia | 635 S. Fairfax Street Alexandria, VA 22314 703.838.8414

Consultant
MV CONSULTING INC
4640 PECOS STREET, UNIT F DENVER, COLORADO, 80211
303.325.3271 MV-C.NET

COLORADO LICENSED — MARCUS T. VANNI — 41304 — PROFESSIONAL ENGINEER
08/12/2022

| Issuance | Date |
|---|---|
| CONSTRUCTION DOCUMENTS | 08.10.2022 |

| Revisions | Date | No. |
|---|---|---|

**Project Information**

**HCA Academic Residency Offices**
1400 S. Potomac, Suite 200
Aurora, CO 80012

**Sheet Information**

**Sheet Title:**
ENERGY CODE COMPLIANCE FORMS

Sheet Number:
E-002

MVC Project: 2022-055-00

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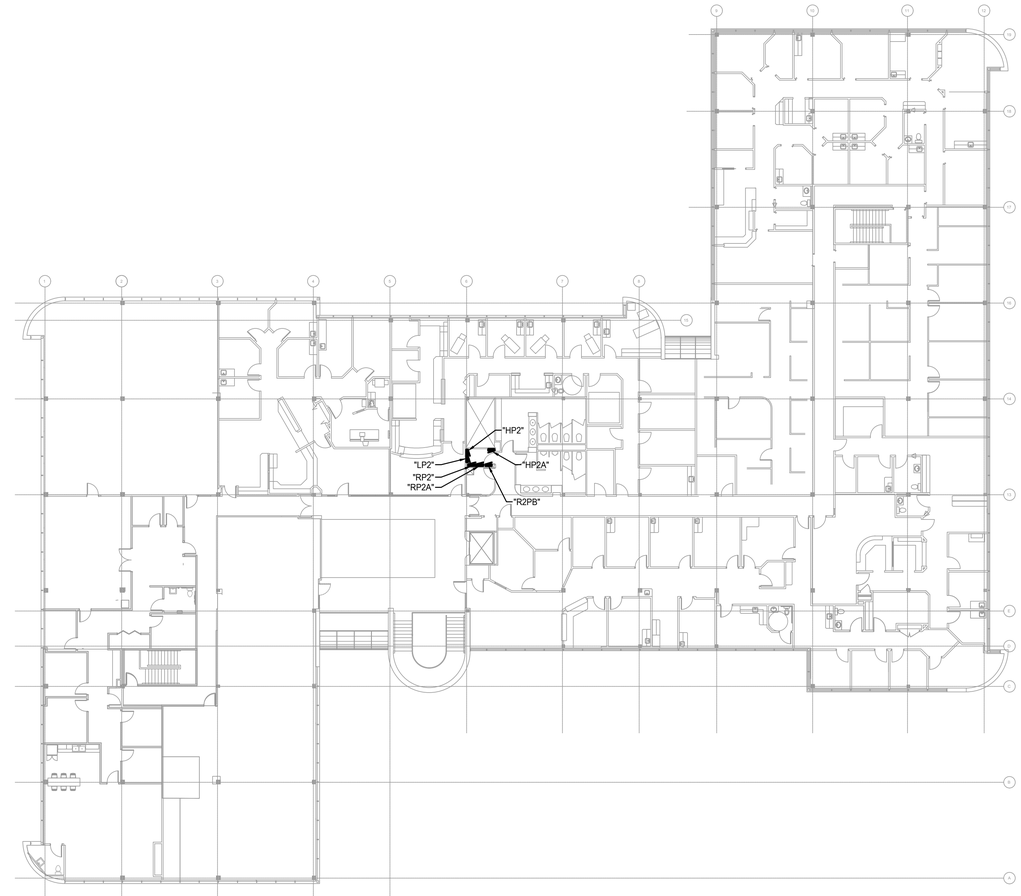
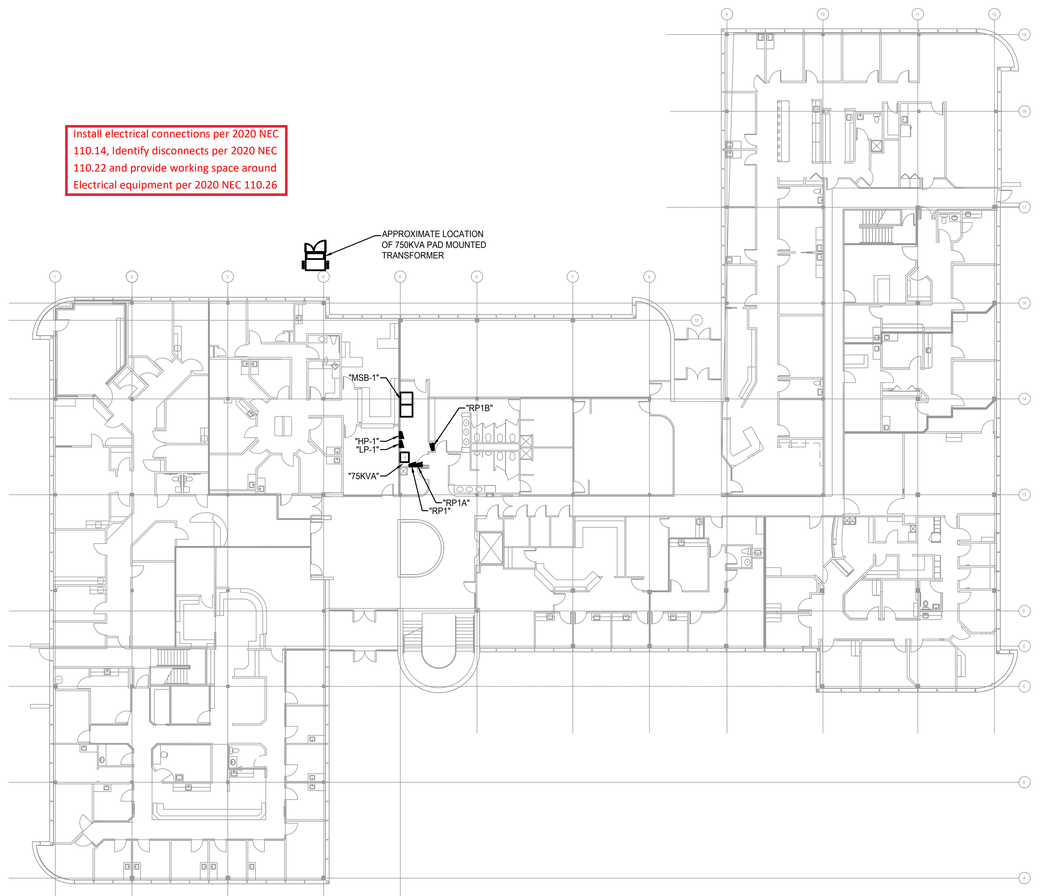
## GENERAL NOTES

1. DEVICES SHOWN ON THIS PLAN ARE EXISTING AND SHOWN FOR REFERENCE.




E2 **LEVEL 2 - OVERALL POWER PLAN**
1/8" = 1'-0"

Install electrical connections per 2020 NEC 110.14, Identify disconnects per 2020 NEC 110.22 and provide working space around Electrical equipment per 2020 NEC 110.26




E1 **LEVEL 1 - OVERALL POWER PLAN**
1/8" = 1'-0"

Code violations that are found during inspection are required to be corrected. Permit issuance does not grant approval of a code violation.

Field Inspection consultation is available upon request. Call 303-739-7420 to request a consultation

City of Aurora Building Division
Reviewed for Code Compliance
Approved as Noted: Erick M. Bumpass
Date: Aug 22, 2022
2015 INTERNATIONAL CODES & 2020 NEC

RSN: 1652123
Permit #: 22-2201757

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Virginia | 635 S. Fairfax Street Alexandria, VA 22314 703.838.8414

Consultant
MVC CONSULTING INC
4640 PECOS STREET, UNIT F DENVER, COLORADO, 80211
303.325.3271 MV-C.NET

COLORADO LICENSED
MARCUS T. VANNING
41304
PROFESSIONAL ENGINEER
08/15/2022

| Issuance | Date |
|---|---|
| CONSTRUCTION DOCUMENTS | 08.10.2022 |

| Revisions | Date | No. |
|---|---|---|

**Project Information**

**HCA Academic Residency Offices**
1400 S. Potomac, Suite 200
Aurora, CO 80012

**Sheet Information**

**Sheet Title:**
LEVELS ONE AND TWO - OVERALL POWER PLANS

Sheet Number:
E-100

MVC Project: 2022-055-00

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| EQUIPMENT SCHEDULE | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| KEY | EQUIPMENT | LOAD HP,KW,FLA | VOLTS | Ø | BRANCH CKT. CONDUCTORS | COND. | DISCONNECT SWITCH | DISCONNECT FUSE | PANEL | NOTES |
| EF-1 | EXHAUST FAN | 69.5 W | 120 | 1 | 2#12,1#12G | 1/2" | Sto | --- | SEE PLANS | |
| TF-1 | EXHAUST FAN | 72.5 W | 120 | 1 | 2#12,1#12G | 1/2" | Sto | --- | SEE PLANS | |
| NOTES: | | | | | | | | | | |

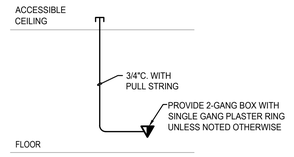
## GENERAL NOTES

1. DEVICES SHOWN LIGHT LINE WEIGHT ARE EXISTING TO REMAIN, DEVICES SHOWN DASHED TO BE REMOVED OR RELOCATED, DEVICES SHOWN HEAVY ARE RELOCATED OR NEW.
2. LOWER CASE LETTER NEXT TO OUTLETS DENOTES THE REMOVED LOCATION AND NEW LOCATION OF THE OUTLET, MAINTAIN CIRCUIT CONTINUITY UP AND DOWNSTREAM OF DEVICE.
3. COORDINATE FINAL LOCATIONS OF OUTLETS WITH THE ARCHITECT/TENANT PRIOR TO ROUGH-IN.
4. COORDINATE FINAL LOCATIONS AND QUANTITIES OF WIRELESS ACCESS POINTS "WAP" WITH TENANTS LOW VOLTAGE CONSULTANT.

## ◇ DETAIL NOTES

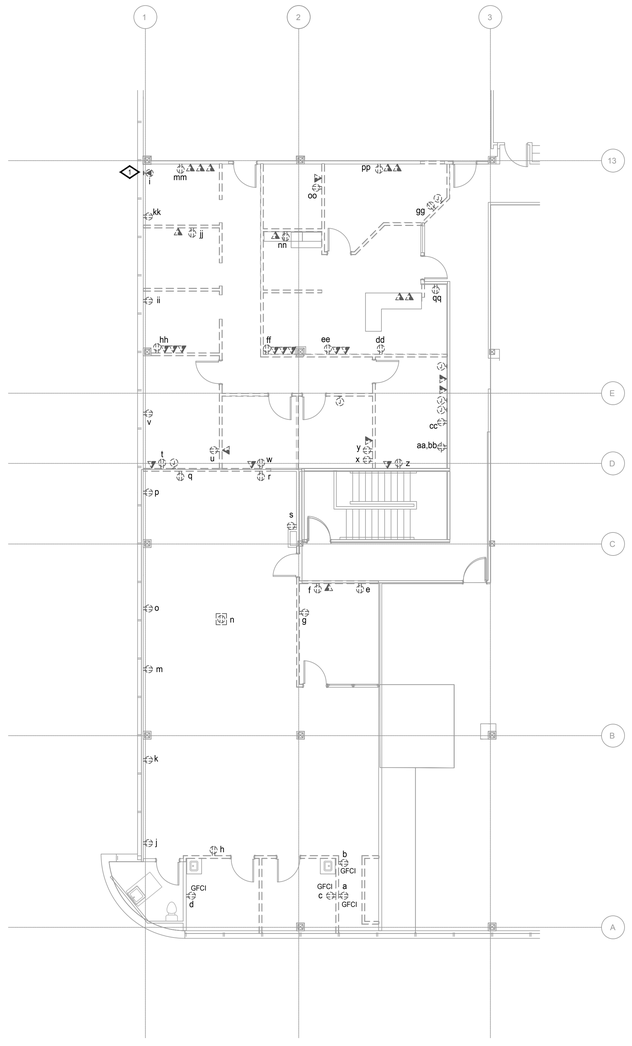
1 THE EXISTING DEVICE SHALL BE REMOVED AND THE CIRCUIT SHALL BE EXTENDED TO NEW DUPLEX OUTLET AS SHOWN, CONTRACTOR SHALL FIELD VERIFY THE BREAKER AND REVISE TO A 20A/1P BREAKER.

2 MECHANICAL FAN SHALL BE CONNECTED TO THE NEAREST RECEPTACLE CIRCUIT, MINIMAL LOAD ADDED, SEE MECHANICAL EQUIPMENT SCHEDULE FOR LOAD.

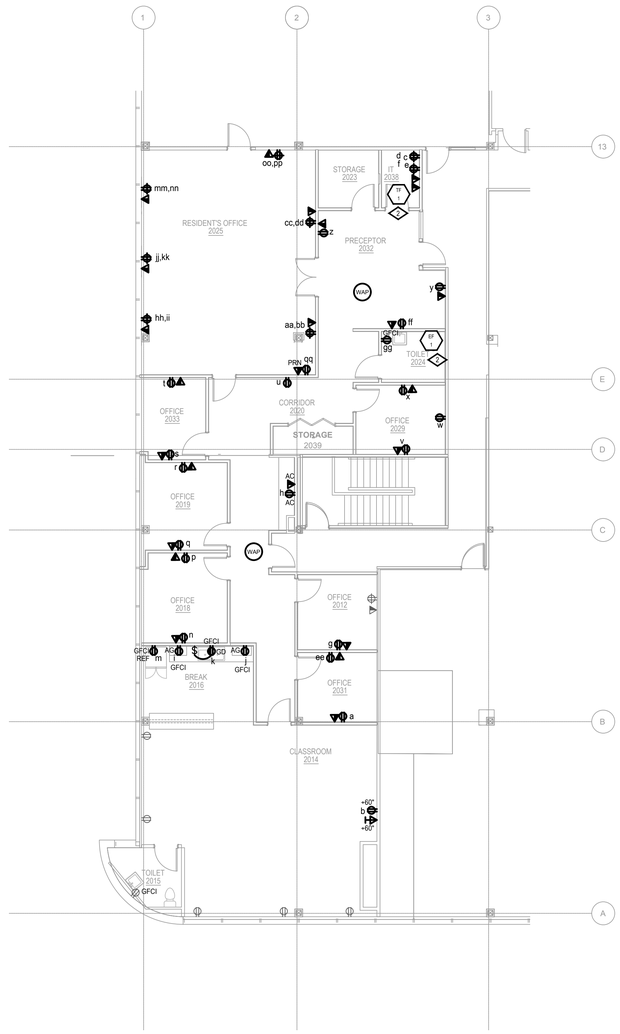



E3 TELE/DATA OUTLET INSTALLATION DETAIL
NO SCALE

Install electrical connections per 2020 NEC 110.14, Identify disconnects per 2020 NEC 110.22 and provide working space around Electrical equipment per 2020 NEC 110.26




E2 LEVEL 2 - DEMO POWER PLAN
1/8" = 1'-0"




E1 LEVEL 2 - POWER PLAN
1/8" = 1'-0"

City of Aurora Building Division
Reviewed for Code Compliance
Approved as Noted: *Erick M. Bumpass*
Date: *Aug 22, 2022*
2015 INTERNATIONAL CODES & 2020 NEC

RSN: *1652123*
Permit #: *22-2201757*

Code violations that are found during inspection are required to be corrected. Permit issuance does not grant approval of a code violation.

Field Inspection consultation is available upon request. Call 303-739-7420 to request a consultation

DAVIS PARTNERSHIP ARCHITECTS
Denver | 2901 Blake Street, Suite 100 Denver, CO 80205 303.861.8555
Virginia | 635 S. Fairfax Street Alexandria, VA 22314 703.838.8414

Consultant
MVC CONSULTING INC
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303.325.3271 MV-C.NET

COLORADO LICENSED
MARCUS T. VANNING
41304
PROFESSIONAL ENGINEER
08/15/2022

| Issuance | Date |
|---|---|
| CONSTRUCTION DOCUMENTS | 08.10.2022 |

| Revisions | Date | No. |
|---|---|---|

**Project Information**

**HCA Academic Residency Offices**
1400 S. Potomac, Suite 200
Aurora, CO 80012

**Sheet Information**

**Sheet Title:**
LEVEL TWO - POWER PLANS - NEW AND DEMO

Sheet Number:
E-102

MVC Project: 2022-055-00

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## LUMINAIRE SCHEDULE

| KEY | DESCRIPTION | MFR. & CAT.NO. | LAMP/ COLOR TEMP. | VOLTS | MOUNTING INFORMATION | LUMENS | MAX WATTS | NOTES |
|---|---|---|---|---|---|---|---|---|
| D1 | 5" SURFACE MOUNTED SLIM LED DOWNLIGHT | JUNO OR EQUAL JSF-5IN-"X-90CRI-MVOLTZT-WH | LED | 120/277 | SURFACE | 700 | 10 | 1 |
| EM | LED FROG-EYE W/ EMERGENCY BATTERY PACK | MATCH EXISTING SUITE STANDARD | LED | 120/277 | SURFACE | --- | --- | |
| T1 | VOLUMETRIC LED 2X4 TROFFER OR EQUAL | LITHONIA LIGHTING 2VTS4-48L-ADPT-EZ1-LP830 | LED 3000 | 120/277 | RECESSED | 4,800 | 39 | 1 |
| T2 | VOLUMETRIC LED 2X2 TROFFER OR EQUAL | LITHONIA LIGHTING 2VTS2-33L-ADPT-EZ1-LP8* | LED | 120/277 | RECESSED | 3,300 | 26.3 | 1 |
| X | LED EXIT SIGN, GREEN LETTERS ON WHITE BACKGROUND, EM BATTERY PACK | MATCH EXISTING SUITE STANDARD | LED | 120/277 | SEE PLANS | --- | -- | |

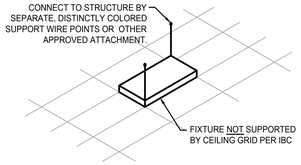
MOUNTING ABBREVIATIONS
AFF - ABOVE FINISHED FLOOR
BFC - BELOW FINISHED CEILING
RFD - RECESSED FIXTURE DEPTH

GENERAL NOTES:
1. COORDINATE DIMMER CONTROLLER (SWITCH) WITH FIXTURE DIMMING TYPE (0-10V,PHASE, ETC.) AND FIXTURE TYPE (FLUORESCENT, INCANDESCENT, MLV, ELV, LED)
2. REFER TO FLOOR PLANS FOR EXIT SIGN MOUNTING, NUMBER OF FACES AND CHEVRONS.
3. VERIFY FIXTURE FINISHES WITH ARCHITECT AND/OR INTERIOR DESIGNER PRIOR TO PURCHASE. ADJUST AS REQUIRED.

NOTES:
1. COLOR TEMPERATURE TO MATCH BUILDING STANDARD.

Provide Emergency Illumination Equipment That complies with 2020 NEC 700.12(F) or NEC 700.

Suspended Ceiling Systems and the Luminaires They support shall meet the requirements of 410.36(B) 2020 NEC



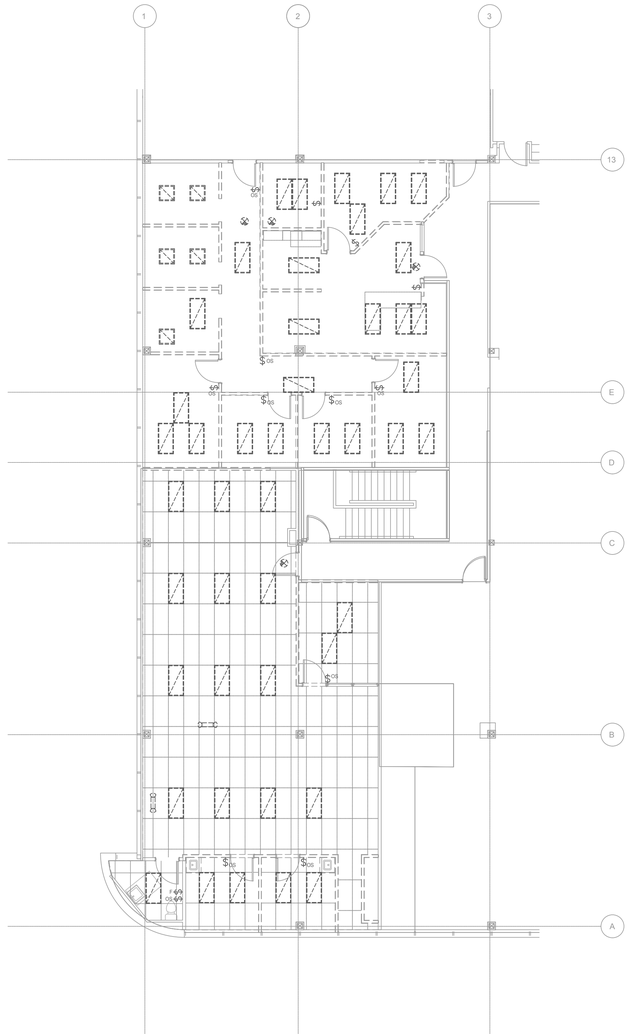

E3 FIXTURE SUPPORT DETAIL
SCALE: NONE

## GENERAL NOTES

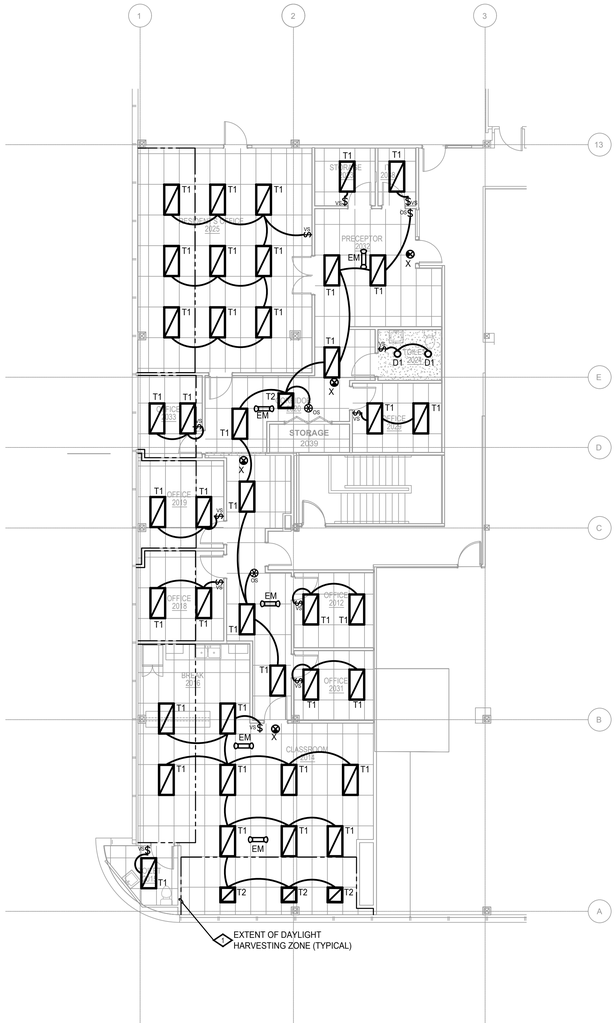
1. ALL LIGHTING FIXTURES SHOWN HEAVY LINEWEIGHT ARE EXISITNG TO BE RELOCATED FROM EXISTING FIXTURES SHOWN ON THE DEMO PLAN UNLESS NOTED WITH A FIXTURE TAG. REFER TO LUMINAIRE SCHEDULE FOR ADDITIONAL INFORMATION.
2. QUANTITY OF 2X4 AND 2X2 FIXTURES HAVE BEEN REDUCED FROM THE PREVIOUSLY INSTALLED FIXTURES. THE NEW DOWN LIGHTS ARE LED AND THE TOTAL LIGHTING LOAD HAS BEEN REDUCED.
3. ALL EXIT SIGNS SHALL BE CONNECTED TO THE UNSWITCHED HOT LEG OF THE NEAREST CIRCUIT SERVING THE LIGHTING FIXTURES.

## ◇ DETAIL NOTES

1. CONNECTED LIGHTING LOAD IN MARKED DAYLIGHT HARVESTING ZONE IS LESS THAN 150W THEREFORE DAYLIGHT HARVESTING CONTROLS ARE NOT REQUIRED PER 2018 IECC SECTION C405.2.3.



E2 LEVEL 2 - DEMO LIGHTING PLAN
1/8" = 1'-0"




E1 LEVEL 2 - LIGHTING PLAN
1/8" = 1'-0"

City of Aurora Building Division
Reviewed for Code Compliance
Approved as Noted: Erick M. Bumpass
Date: Aug 22, 2022
2015 INTERNATIONAL CODES & 2020 NEC

RSN: 1652123
Permit #: 22-2201757

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303.325.3271 MV-C.NET

| Issuance | Date |
|---|---|
| CONSTRUCTION DOCUMENTS | 08.10.2022 |

| Revisions | Date | No. |
|---|---|---|

Project Information

**HCA Academic Residency Offices**
1400 S. Potomac, Suite 200
Aurora, CO 80012

Sheet Information

Sheet Title:
LEVEL TWO - LIGHTING PLANS - NEW AND DEMO

Sheet Number:
E-202

MVC Project: 2022-055-00

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