

Sixth Floor Remodel
 11404 West Dodge Road
 Omaha, NE 68154
 for

Frankel Zacharia

General Information

G000 Cover Sheet
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Architectural

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 A001 Specifications
 A002 Specifications
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 A103 Reflected Ceiling Plan

A200 Interior Elevations and Casework Details

F100 Furniture Plan - for Reference Only

Mechanical

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 MD101 Mechanical Demolition Plan
 M101 Mechanical and Plumbing Plan

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**I-A
 B**

LSC 2012 **IFC 2012** **Submit Fire Alarm Plans To F.P.B. For Approval Prior To Installation.**

ALL VALVES CONTROLLING THE WATER SUPPLY FOR AUTOMATIC SPRINKLER SYSTEMS AND WATER FLOW SWITCHES SHALL BE ELECTRONICALLY SUPERVISED. APPROVED AUDIBLE ALARMS SHALL BE PROVIDED ON THE EXTERIOR OF THE BUILDING. AS PER SECT. 903.4 AND 903.4.2 OF THE I.F.C.

KNOX BOX

omaha PLANNING

- ONE SET OF APPROVED PLANS SHALL BE KEPT ON THE JOBSITE AND SHALL BE AVAILABLE TO INSPECTORS AT ALL TIMES.
- THIS PERMIT DOES NOT GRANT APPROVAL TO VIOLATE ANY ORDINANCE OF THIS JURISDICTION, STATE, OR FED LAW.
- A PERMIT MAY BE REVOKED WHENEVER THE PERMIT IS ISSUED IN ERROR OR DUE TO INCORRECT INFORMATION SUPPLIED.
- THIS PERMIT SHALL NOT PREVENT THE BUILDING OFFICIAL FROM REQUIRING CONSTRUCTION TO BE IN COMPLIANCE WITH ALL APPLICABLE CODES.
- THIS PERMIT IS VALID FOR 30 MONTHS IF AN INITIAL INSPECTION OCCURS WITHIN 6 MONTHS OF ISSUANCE.

APPROVED

10/3/2024, 1:04:05 PM
 BLD-24-11793

00001 - MPE (Frank Reida)
 CODES:
 NEC 2023, with Amendments

| Construction/Reflected Ceiling Symbols | | | | Electrical/Data/Communication Symbols | | | | Code Summary | | | | | | | | | | | | | | | | | |
|--|-----------------------------|-------------|---------------------------------|---------------------------------------|------------------------------------|--|---|--|--|--|--|-------|---------------|-------------|------------|--------------|--------------|--------------|---|--------|---|--------|--------|-----------|----|
| | North Arrow | | Recessed Downlight - Demo | | Duplex Receptacle Outlet | | Audible/Visual Alarm | <p>Applicable Codes - Omaha, NE as modified by amendments</p> <p>Building Code - IBC2018 Existing Building Code - IEBC 2018 (Compliance Method - Work Area Level 2) Life Safety Code - NFPA101-2012 Fire Code - IFC2012 Accessibility Code - IBC2018, incl. ICC/ANSI A117.1-2009 Mechanical Code - IMC2012 Plumbing Code - Omaha Plumbing Code 2018 Electrical Code - NEC2017 Energy Conservation Code - IECC2018</p> <p>Legal Description Of Property 11404 West Dodge Road, Omaha, NE 68154</p> <p>Occupancy Change in Occupancy Use No Occupancy Classifications B Business And Office Space</p> <p>Occupant Loads</p> <table border="1"> <thead> <tr> <th>Level</th> <th>Activity Uses</th> <th>Occup Class</th> <th>Area Gross</th> <th>Area Remodel</th> <th>Sq Ft/ Occup</th> <th>No. Of Occup</th> </tr> </thead> <tbody> <tr> <td>6</td> <td>Tenant</td> <td>B</td> <td>14,976</td> <td>10,517</td> <td>150 Gross</td> <td>71</td> </tr> </tbody> </table> <p>Exits No modifications to existing exiting conditions as part of this renovation.</p> <p>Height & Number of Stories Number of Stories: 7</p> <p>Fire Protection Automatic Sprinkler System Yes Existing building is equipped throughout with an automatic sprinkler system.</p> <p>Automatic Fire Detection Yes Standpipe/Fire Pump System Yes</p> <p>Maintain existing building standard fire extinguisher locations. Provide additional fire extinguishers as needed to comply with NFPA10. Maximum travel distance to extinguisher 75 feet, unless noted otherwise. Coordinate exact placement with Architect.</p> <p>Types Of Construction Types of Construction: IA</p> <p>Signage The building owner does (not) intend to install exterior building signs, property signs, or modify existing exterior signage in any way.</p> | | | | Level | Activity Uses | Occup Class | Area Gross | Area Remodel | Sq Ft/ Occup | No. Of Occup | 6 | Tenant | B | 14,976 | 10,517 | 150 Gross | 71 |
| Level | Activity Uses | Occup Class | Area Gross | Area Remodel | Sq Ft/ Occup | No. Of Occup | | | | | | | | | | | | | | | | | | | |
| 6 | Tenant | B | 14,976 | 10,517 | 150 Gross | 71 | | | | | | | | | | | | | | | | | | | |
| | Column Reference Grid | | Recessed Downlight - Extg | | Quadruplex Receptacle Outlet | | Closed Circuit Camera | | | | | | | | | | | | | | | | | | |
| | Section/Detail Callout | | Recessed Downlight - New | | Blank Outlet Cover Plate | | Emergency Battery Pack w/ Charger and Sealed Beam Heads | | | | | | | | | | | | | | | | | | |
| | Interior Elevation | | Recessed Downlight - Emergency | | Telephone Outlet | | Panelboard | | | | | | | | | | | | | | | | | | |
| | Room Name & Number | | Fluorescent Fixture - Demo | | Data Outlet | | Fire Protection Cabinet | | | | | | | | | | | | | | | | | | |
| | Door Number | | Fluorescent Fixture - Extg | | Telephone /Data Outlet | | Miscellaneous Item - Wall Mtd Motion Sensor - Wall Mtd | | | | | | | | | | | | | | | | | | |
| | Wall Type Indication - Demo | | Fluorescent Fixture - New | | Floor Receptacle Outlet | <p>Item Symbol Notation</p> <p>FI Fire Indicator Strobe FP Fire Pull Station SD Smoke Detector SP Speaker T Thermostat</p> | | | | | | | | | | | | | | | | | | | |
| | Wall Type Indication - Extg | | Fluorescent Fixture - Emergency | | Floor Telephone Outlet | | | | | | | | | | | | | | | | | | | | |
| | Wall Type Indication - New | | HVAC Supply Outlet - Demo | | Floor Data Outlet | <p>Item Status</p> <p>E Extg item to remain and be functional D Extg item to demolish in its entirety R Extg item to relocate in its entirety and be functional N New item to provide in its entirety and be functional</p> | | | | | | | | | | | | | | | | | | | |
| | Keynote | | HVAC Supply Outlet - Extg | | Floor Telephone/Data Outlet | | | | | | | | | | | | | | | | | | | | |
| | Spot Elevation | | HVAC Supply Outlet - New | | Floor In-feed, Systems Furnishings | <p>Powerpole, Systems Furnishings</p> | | | | | | | | | | | | | | | | | | | |
| | Revision Number | | HVAC Return Air Outlet - Demo | | Wall In-feed, Systems Furnishings | | | | | | | | | | | | | | | | | | | | |
| | Spot Elevation | | HVAC Return Air Outlet - Extg | | Single Pole Switch | <p>Item Status</p> <p>E Extg item to remain and be functional D Extg item to demolish in its entirety R Extg item to relocate in its entirety and be functional N New item to provide in its entirety and be functional</p> | | | | | | | | | | | | | | | | | | | |
| | Revision Number | | HVAC Return Air Outlet - New | | Lighted Exit Sign - Clg Mtd | | | | | | | | | | | | | | | | | | | | |
| | Revision Number | | Lighted Exit Sign - Wall Mtd | | Motion Sensor - Clg Mtd | <p>Item Status</p> <p>E Extg item to remain and be functional D Extg item to demolish in its entirety R Extg item to relocate in its entirety and be functional N New item to provide in its entirety and be functional</p> | | | | | | | | | | | | | | | | | | | |
| | Revision Number | | Fire Protection Item - Clg Mtd | | Miscellaneous Item - Clg Mtd | | | | | | | | | | | | | | | | | | | | |
| | Revision Number | | Miscellaneous Item - Clg Mtd | | Sprinkler Head | | | | | | | | | | | | | | | | | | | | |

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 402.475.7234

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Mechanical/Electrical Engineers
Alvine Engineers
 1201 Cass Street
 Omaha, NE 68102
 402.346.7007

Structural Engineer

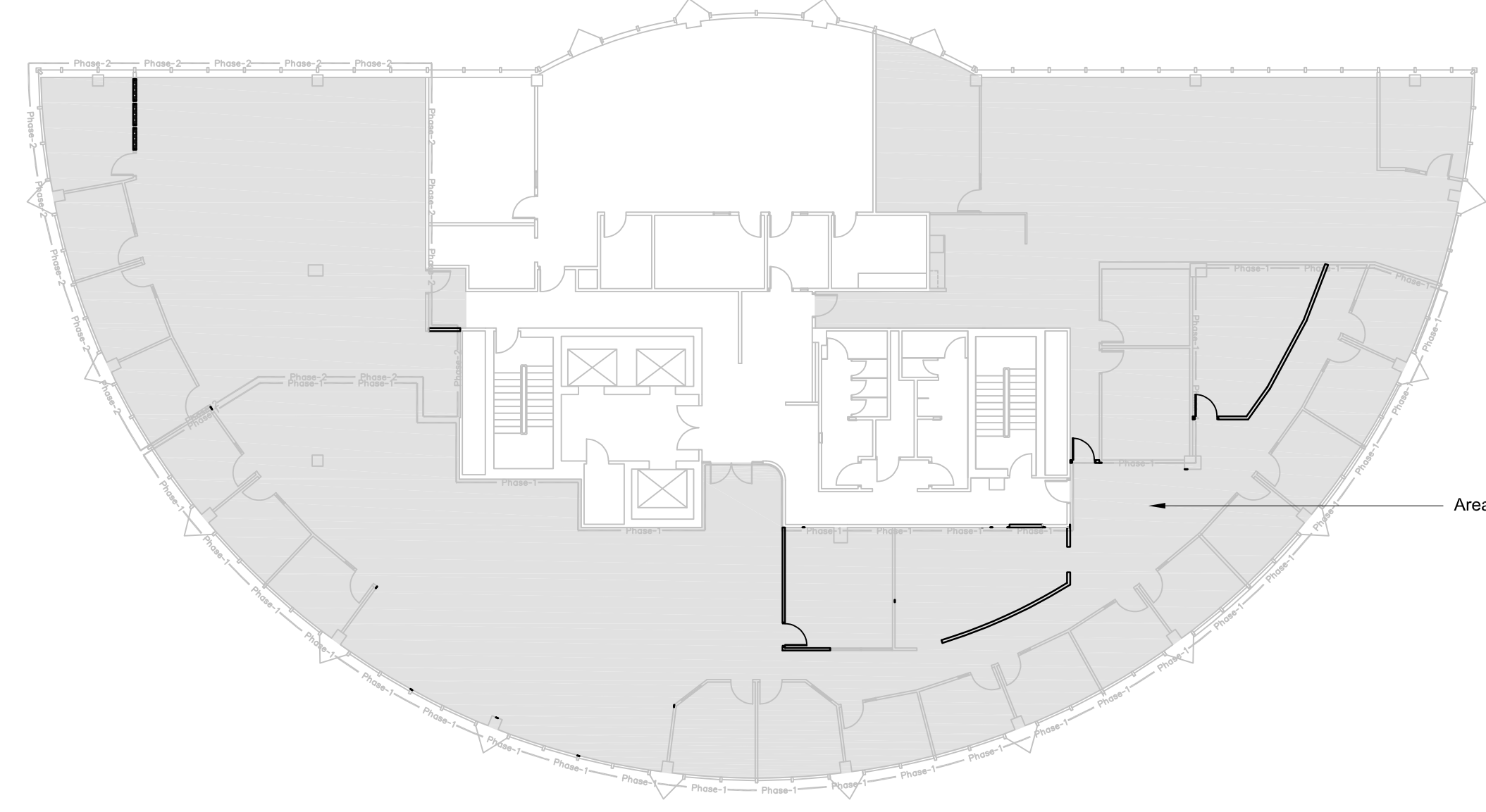
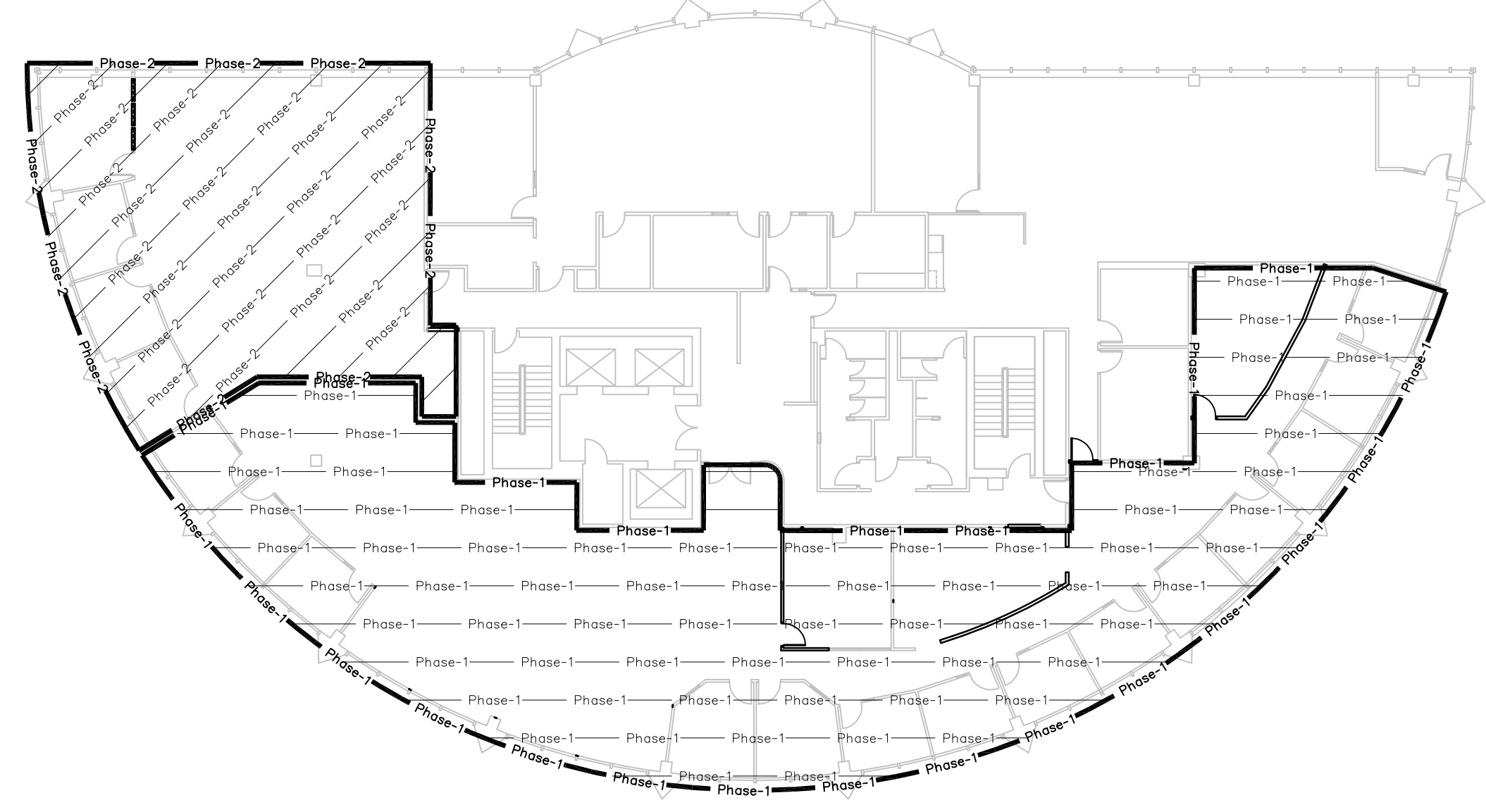
Civil Engineer

Interior Designer
JH Interior Design
 721 N 98th Street
 Omaha, NE 68114
 402.934.3474 ext. 108

DAN MULLIGAN
 A-1918
 STATE OF NEBRASKA

I, Dan Mulligan, am the Coordinating Professional on the 6th Floor Office remodel for Frankel Zacharia.

Agency Approval



A1 G000 NTS Phasing Plan

A9 G000 NTS Keyplan

Designed: djm Sheet No.
 Drawn by: elb **G000**
 Reviewed:
 Proj: 4955

File Path

Standard Abbreviations

| | | | |
|-------|-----------------------|--------|--------------------------|
| @ | At | LAV | Lavatory |
| ABV | Above | LH | Left Hand |
| ADJ | Adjustable | LHR | Left Hand Reverse |
| AFF | Above Finish Floor | LS | Lockset |
| AL | Aluminum | MATL | Material |
| AC | Acoustical Ceiling | MAX | Maximum |
| B | Bulbs | MECH | Mechanical |
| BL | Blinds | MEZZ | Mezzanine |
| BLDG | Building | MFR | Manufacturer |
| BLK | Block | MIN | Minimum |
| BLKHD | Bulkhead | MISC | Miscellaneous |
| BM | Beam | MO | Masonry Opening |
| BO | Bottom of | MTL | Metal |
| BRK | Brick | MW | Moveable Wall |
| BSMT | Basement | NIC | Not Included In Contract |
| C | Closer | NTS | Not To Scale |
| CL | Closer | OC | On Center |
| CLG | Ceiling | OD | Outside Diameter |
| CMU | Concrete Masonry Unit | OHD | Overhead Door |
| COL | Column | OPNG | Opening |
| CONC | Concrete | OPP | Opposite |
| COND | Condition | PL | Plastic Laminate |
| CONT | Continuous | PLAS | Plaster |
| CNT | Carpet | PLYWD | Plywood |
| CRNR | Corner | P | Paint |
| CSK | Countersunk | QT | Quarry Tile |
| CT | Ceramic Tile | R | Radius |
| DBL | Double | RB | Resilient Base |
| DESC | Description | REF | Reference |
| DF | Drinking Fountain | REFR | Refrigerator |
| DIA | Diameter | REQD | Required |
| DISP | Disposal | REST | Restroom |
| DMW | Demountable Wall | RH | Right Hand |
| DPR | Dispenser | RHR | Right Hand Reverse |
| DWG | Drawing | RM | Room |
| DWS | Drawers | RO | Rough Opening |
| DW | Dishwasher | RT | Resilient Tile |
| EA | Each | S | Stop |
| ED | Exit Device | SC | Special Coating |
| EL | Elevation | SECT | Section |
| ELEC | Electric | SHLV | Shelving |
| ELEV | Elevator | SHT | Sheet |
| EQ | Equal | SIM | Similar |
| EW | Eachway | SP | Solid Polymer |
| EWC | Electric Water Cooler | ST | Stain |
| EXTG | Exhausting | STL | Steel |
| FD | Floor Drain | STOR | Storage |
| FF | Factory Finish | STRUCT | Structural |
| FIN | Finish | T | Tile |
| FLR | Floor | THK | Thick |
| FND | Foundation | TO | Top Of |
| FTC | Floor To Ceiling | TOW | Top Of Wall |
| FTG | Fully Tempered Glass | TYP | Typical |
| FV | Field Verify | UNO | Unless Noted Otherwise |
| GC | General Contractor | VER | Verify |
| GL | Glass | VERT | Vertical |
| GWB | Gypsum Wallboard | W | Width |
| HT | Height | WB | Wood Base |
| HDWR | Hardware | WC | Wall Covering |
| HM | Hollow Metal | WD | Wood |
| HORIZ | Horizontal | WNDW | Window |
| ID | Inside Diameter | WP | Wood Paneling |
| INSUL | Insulation | WT | Window Treatment |
| JNT | Joint | Wt | With |
| L | Length | W/O | Without |

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 Structural Engineer

Civil Engineer

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DAN MULLIGAN
 A-1918
 REGISTERED PROFESSIONAL ENGINEER
 STATE OF NEBRASKA

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Agency Approval

0 1' 2' 4' 6'

0 2" 4" 6" 8" 10"

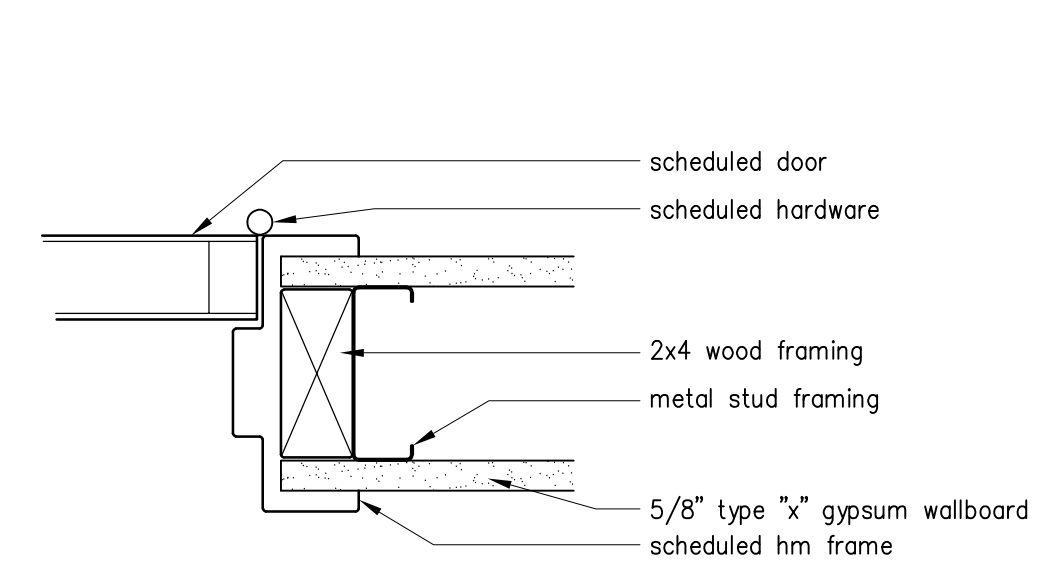
0 2" 4" 6" 8" 10"

Frankel Zacharia
 Sixth Floor Remodel
 11404 West Dodge Road
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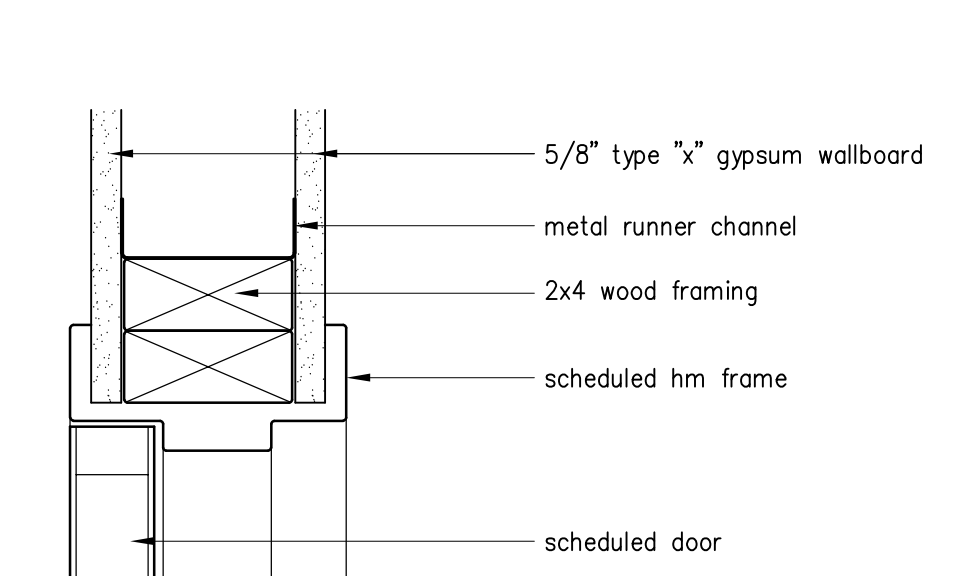
7/30/2024 Construction Documents

Typical Details

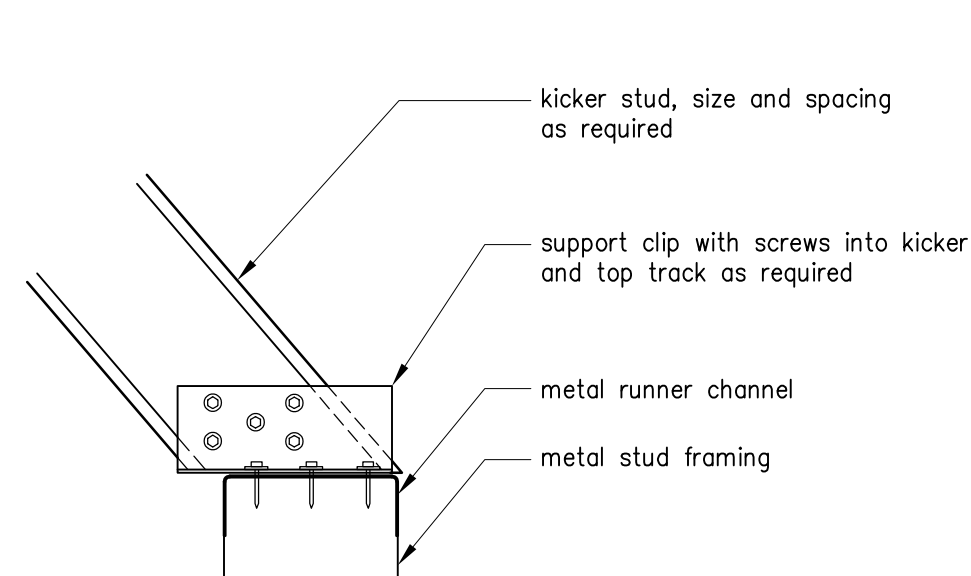
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 Drawn by: elb **G001**
 Reviewed:
 Proj: 4955
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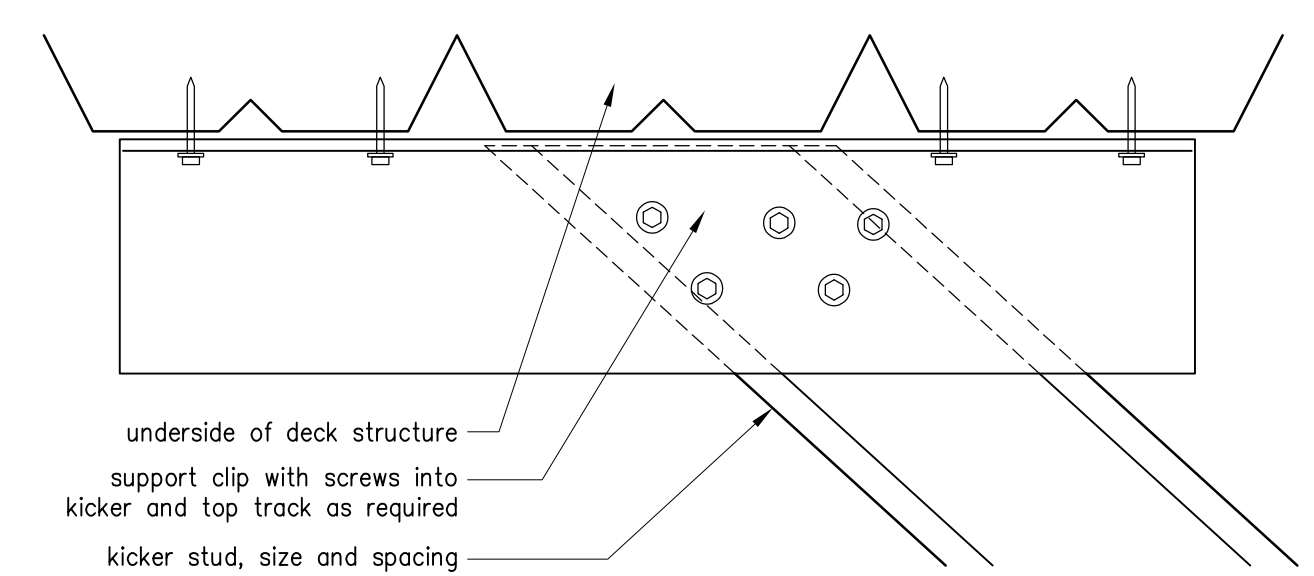
F1 Plan Detail: Typical HM Door Jamb
 3" = 1'-0"



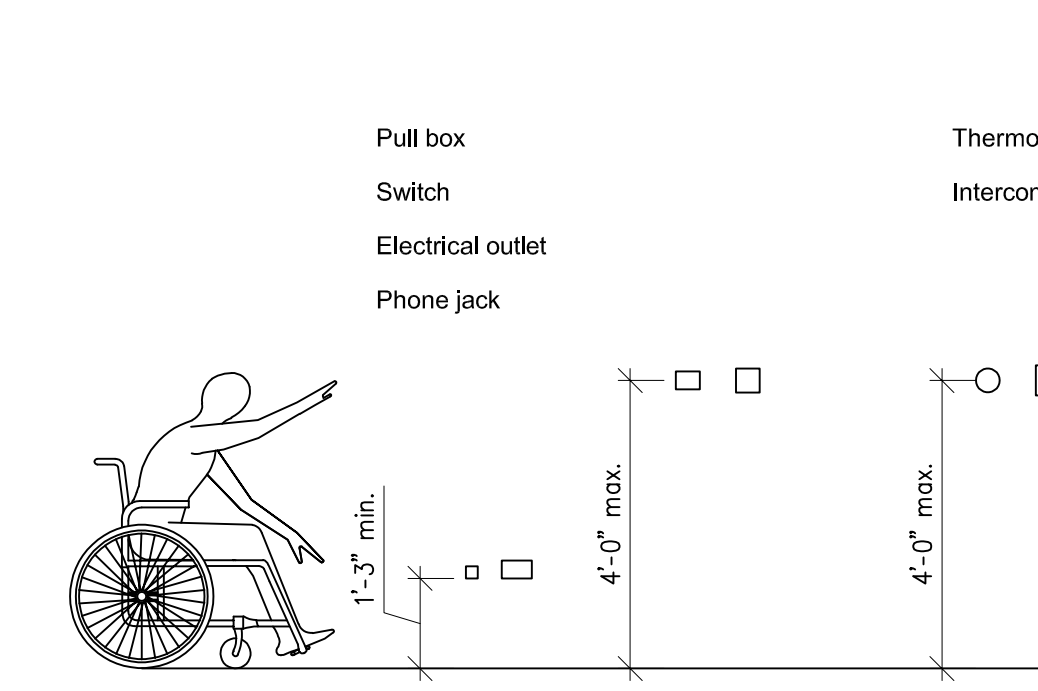
F4 Section: Typical HM Door Head
 3" = 1'-0"



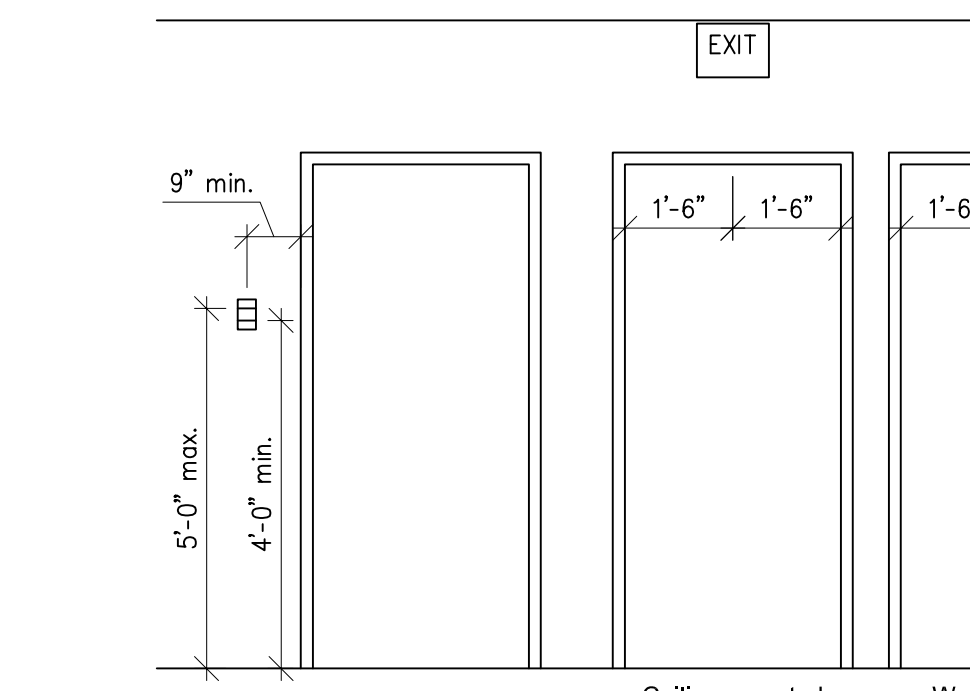
F7 Detail: Typical Top-of-Wall Kicker
 3" = 1'-0"



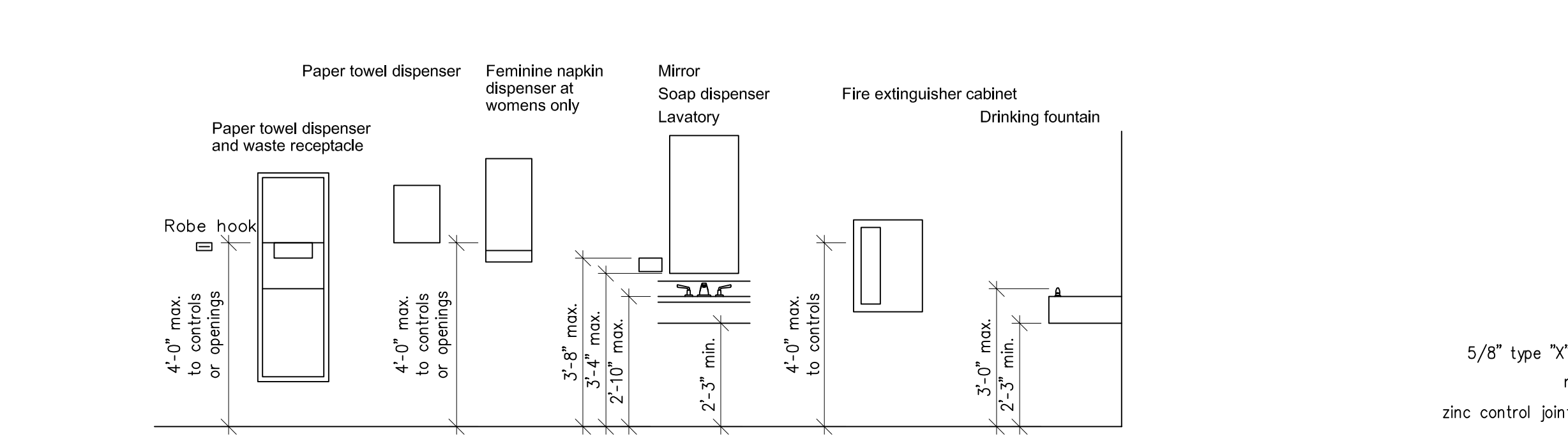
F10 Detail: Typical Bottom-of-Deck Kicker Connection
 no scale



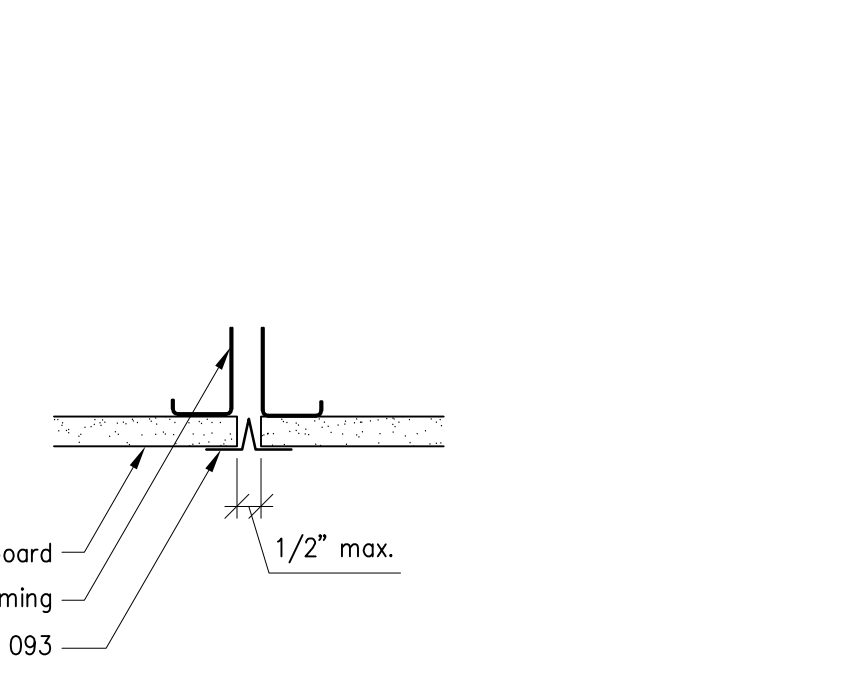
Miscellaneous Accessible Switches



Room Designation Exit Signs

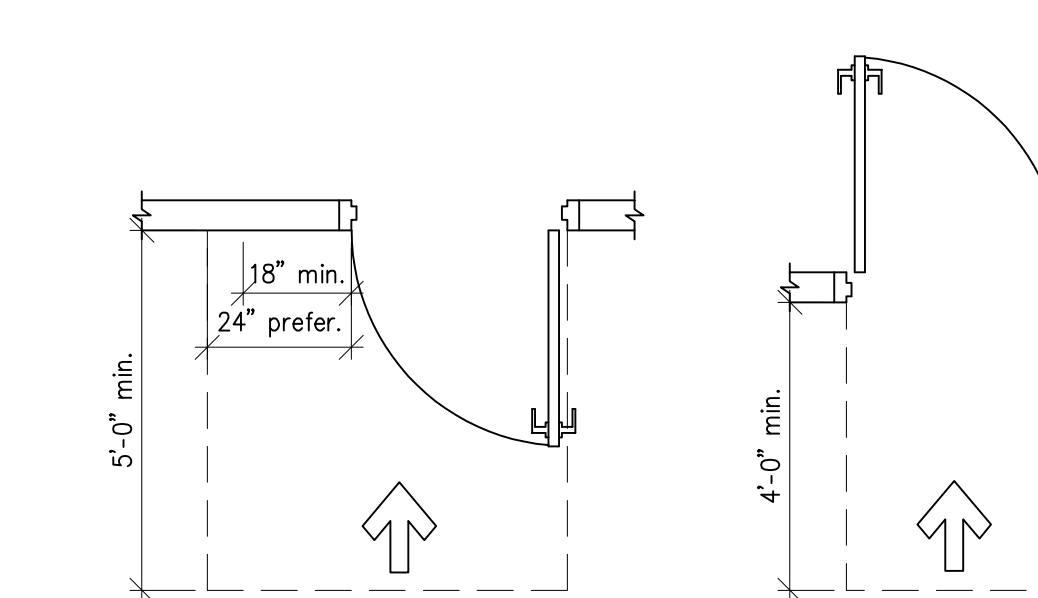


Accessible Fixtures and Accessories



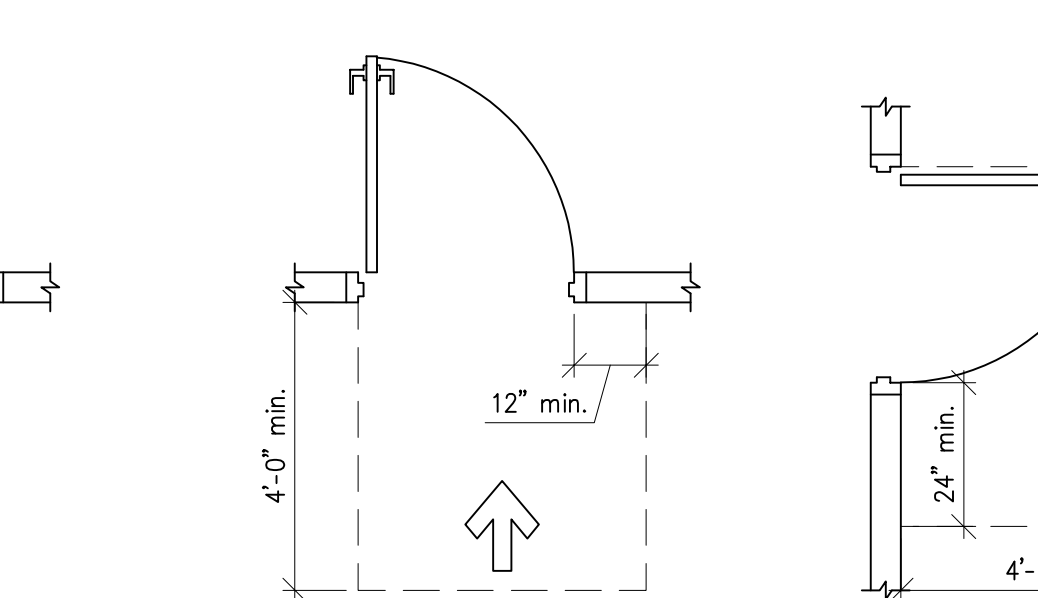
Plan Detail: Typical Gypsum Wallboard Control Joint
 provide on walls over 30 feet in length confirm actual placement with Architect

C1 Typical Mounting Heights
 3/8" = 1'-0"



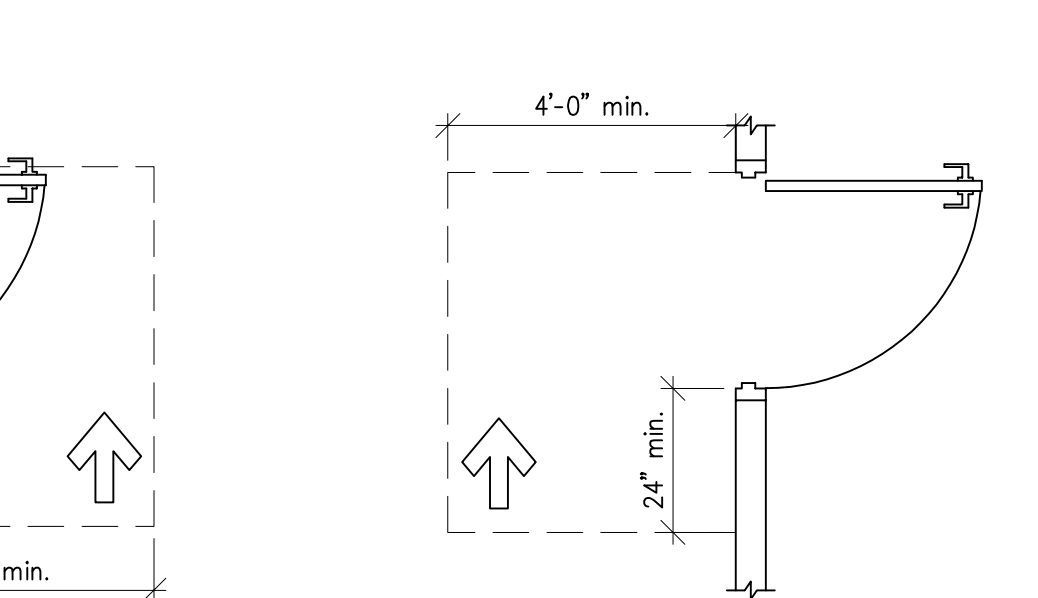
Front Approach, Pull Side

Front Approach, Push Side without closer and latch



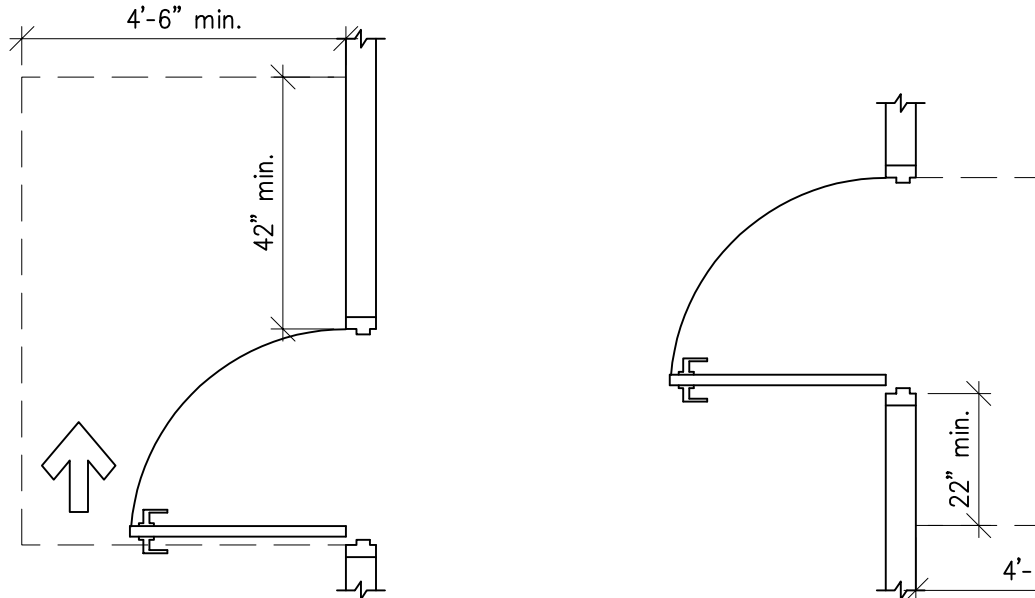
Front Approach, Push Side with both closer and latch

Latch Approach, Pull Side with closer



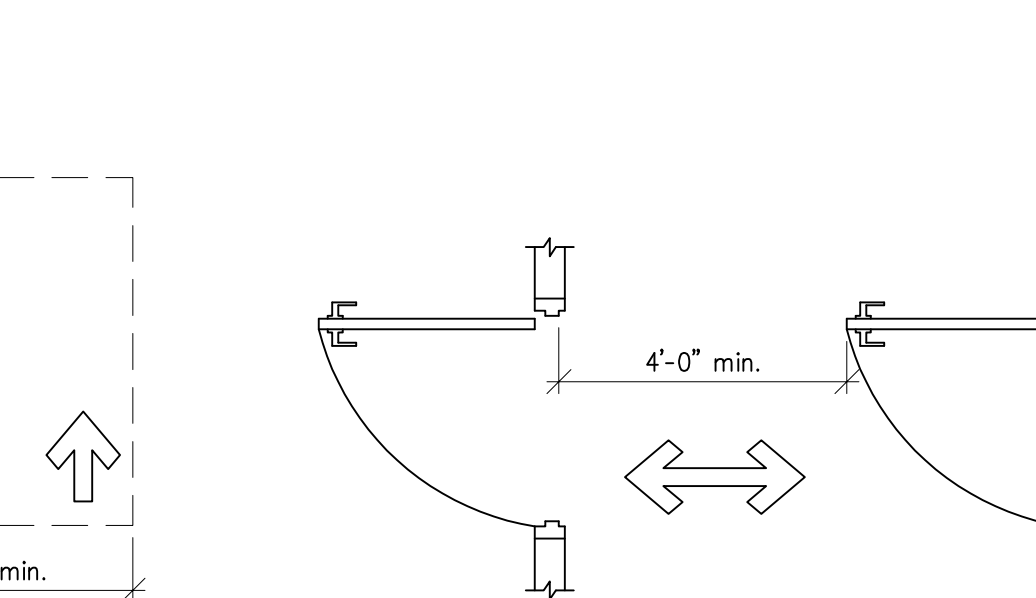
Latch Approach, Push Side with closer

Hinge Approach, Pull Side



Hinge Approach, Push Side with both closer and latch

Doors in Series



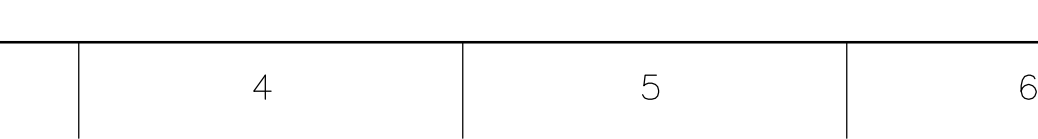
Doors in Series

A1 Typical Door Maneuvering Clearances
 3/8" = 1'-0"



Front Approach, Pull Side

Front Approach, Push Side without closer and latch



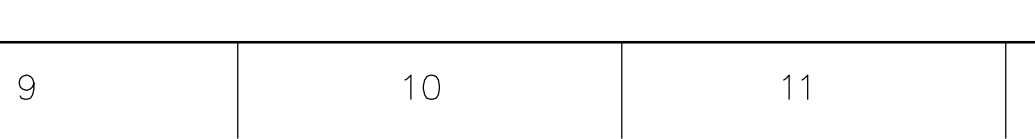
Front Approach, Push Side with both closer and latch

Latch Approach, Pull Side with closer



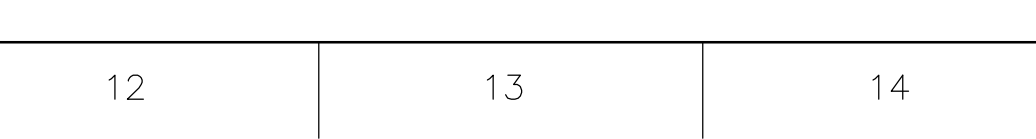
Latch Approach, Push Side with closer

Hinge Approach, Pull Side



Hinge Approach, Push Side with both closer and latch

Doors in Series



Doors in Series

| L | ROOM | | FLOOR | | | | NORTH | | SOUTH | | EAST | | WEST | | WINDOW | CEILING | | | NOTES | No. |
|-----|-------------|-------|-------|----------|------|-------|----------|-------|--------|-------|--------|-------|--------|-------|--------|---------|--------|------|-------|-----|
| | No. | NAME | MAT'L | FINISH | BASE | MAT'L | FINISH | MAT'L | FINISH | MAT'L | FINISH | MAT'L | FINISH | MAT'L | | FINISH | HEIGHT | | | |
| | 600 | Entry | CONC | CPT1 | RB1 | GWB | WC1 / P1 | GWB | P1 | GWB | P1 | GWB | P1 | GWB | | P1 | - | EXTG | | |
| 601 | Open Office | CONC | CPT1 | RB1 | GWB | P1 | GWB | P1 | GWB | P1 | GWB | P1 | GWB | P1 | - | EXTG | EXTG | EXTG | - | 601 |
| 602 | Open Office | CONC | CPT1 | RB1 | GWB | P1 | GWB | P1 | GWB | P1 | GWB | P1 | GWB | P1 | - | EXTG | EXTG | EXTG | - | 602 |
| 603 | Office | CONC | EXTG | EXTG | GWB | P1 | GWB | P1 | GWB | P1 | GWB | P1 | GWB | P1 | - | EXTG | EXTG | EXTG | - | 603 |
| 604 | Office | CONC | EXTG | EXTG | GWB | P1 | GWB | P1 | GWB | P1 | GWB | P1 | GWB | P1 | - | EXTG | EXTG | EXTG | - | 604 |
| 605 | Office | CONC | EXTG | EXTG | GWB | P1 | GWB | P1 | GWB | P1 | GWB | P1 | GWB | P1 | - | EXTG | EXTG | EXTG | - | 605 |
| 606 | Office | CONC | EXTG | EXTG | GWB | P1 | GWB | P1 | GWB | P1 | GWB | P1 | GWB | P1 | - | EXTG | EXTG | EXTG | - | 606 |
| 607 | Office | CONC | EXTG | EXTG | GWB | P1 | GWB | P1 | GWB | P1 | GWB | P1 | GWB | P1 | - | EXTG | EXTG | EXTG | - | 607 |
| 608 | Office | CONC | EXTG | EXTG | GWB | P1 | GWB | P1 | GWB | P1 | GWB | P1 | GWB | P1 | - | EXTG | EXTG | EXTG | - | 608 |
| 609 | Office | CONC | EXTG | EXTG | GWB | P1 | GWB | P1 | GWB | P1 | GWB | P1 | GWB | P1 | - | EXTG | EXTG | EXTG | - | 609 |
| 610 | Meeting | CONC | EXTG | EXTG | GWB | P1 | GWB | P1 | GWB | P1 | GWB | P1 | GWB | P1 | - | EXTG | EXTG | EXTG | - | 610 |
| 611 | Meeting | CONC | EXTG | EXTG | GWB | P1 | GWB | P1 | GWB | P1 | GWB | P1 | GWB | P1 | - | EXTG | EXTG | EXTG | - | 611 |
| 612 | Office | CONC | EXTG | EXTG | GWB | P1 | GWB | P1 | GWB | P1 | GWB | P1 | GWB | P1 | - | EXTG | EXTG | EXTG | - | 612 |
| 613 | Office | CONC | EXTG | EXTG | GWB | P1 | GWB | P1 | GWB | P1 | GWB | P1 | GWB | P1 | - | EXTG | EXTG | EXTG | - | 613 |
| 614 | Office | CONC | EXTG | EXTG | GWB | P1 | GWB | P1 | GWB | P1 | GWB | P1 | GWB | P1 | - | EXTG | EXTG | EXTG | - | 614 |
| 615 | Office | CONC | EXTG | EXTG | GWB | P1 | GWB | P1 | GWB | P1 | GWB | P1 | GWB | P1 | - | EXTG | EXTG | EXTG | - | 615 |
| 616 | Office | CONC | EXTG | EXTG | GWB | P1 | GWB | P1 | GWB | P1 | GWB | P1 | GWB | P1 | - | EXTG | EXTG | EXTG | - | 616 |
| 617 | Office | CONC | EXTG | EXTG | GWB | P1 | GWB | P1 | GWB | P1 | GWB | P1 | GWB | P1 | - | EXTG | EXTG | EXTG | - | 617 |
| 618 | Office | CONC | EXTG | EXTG | GWB | P1 | GWB | P1 | GWB | P1 | GWB | P1 | GWB | P1 | - | EXTG | EXTG | EXTG | - | 618 |
| 619 | Office | CONC | EXTG | EXTG | GWB | P1 | GWB | P1 | GWB | P1 | GWB | P1 | GWB | P1 | - | EXTG | EXTG | EXTG | - | 619 |
| 620 | Office | CONC | EXTG | EXTG | GWB | P1 | GWB | P1 | GWB | P1 | GWB | P1 | GWB | P1 | - | EXTG | EXTG | EXTG | - | 620 |
| 621 | Corridor | CONC | CPT | RB1 | GWB | P1 | GWB | P1 | - | - | GWB | P1 | - | - | EXTG | EXTG | EXTG | - | 621 | |
| 622 | Corridor | CONC | CPT | RB1 | GWB | P1 | GWB | P1 | GWB | P1 | GWB | P1 | GWB | P1 | - | EXTG | EXTG | EXTG | - | 622 |
| 623 | Corridor | CONC | CPT | RB1 | - | - | - | - | GWB | P1 | GWB | P1 | GWB | P1 | - | EXTG | EXTG | EXTG | - | 623 |
| 624 | Conference | CONC | EXTG | EXTG | GWB | P1 | GWB | P1 | GWB | P1 | GWB | P1 | GWB | P1 | - | EXTG | EXTG | EXTG | - | 624 |
| 625 | Breakroom | CONC | RT1 | RB1 | GWB | P2 | GWB | P2 | GWB | P2 | GWB | P2 | GWB | P2 | - | EXTG | EXTG | EXTG | - | 625 |
| 626 | Supply | CONC | EXTG | EXTG/RB1 | GWB | P1 | GWB | P1 | GWB | P1 | GWB | P1 | GWB | P1 | - | EXTG | EXTG | EXTG | - | 626 |
| 627 | Workroom | CONC | EXTG | EXTG | GWB | EXTG | GWB | EXTG | GWB | EXTG | GWB | EXTG | GWB | EXTG | - | EXTG | EXTG | EXTG | - | 627 |
| 628 | Corridor | CONC | EXTG | EXTG | GWB | EXTG | GWB | EXTG | GWB | P1 | GWB | EXTG | GWB | EXTG | - | EXTG | EXTG | EXTG | - | 628 |
| 629 | Workroom | CONC | EXTG | EXTG | GWB | EXTG | GWB | EXTG | GWB | EXTG | GWB | EXTG | GWB | EXTG | - | EXTG | EXTG | EXTG | - | 629 |
| 630 | Office | CONC | EXTG | EXTG | GWB | EXTG | GWB | EXTG | GWB | EXTG | GWB | EXTG | GWB | EXTG | - | EXTG | EXTG | EXTG | - | 630 |
| 631 | Open Office | CONC | EXTG | EXTG | GWB | EXTG | GWB | EXTG | GWB | EXTG | GWB | EXTG | GWB | EXTG | - | EXTG | EXTG | EXTG | - | 631 |
| 632 | Conference | CONC | EXTG | EXTG | GWB | EXTG | GWB | EXTG | GWB | EXTG | GWB | EXTG | GWB | EXTG | - | EXTG | EXTG | EXTG | - | 632 |
| 633 | Breakroom | CONC | EXTG | EXTG | GWB | EXTG | GWB | EXTG | GWB | EXTG | GWB | EXTG | GWB | EXTG | - | EXTG | EXTG | EXTG | - | 633 |
| 634 | Corridor | CONC | EXTG | EXTG | GWB | EXTG | GWB | EXTG | GWB | EXTG | GWB | EXTG | GWB | EXTG | - | EXTG | EXTG | EXTG | - | 634 |

DESIGN NOTES AND GENERAL DISCLOSURES

- Locations:**
- All existing wood doors and window and door trim to remain.
 - All interior surfaces of enclosed plastic laminate cabinetry (including cabinetry shelves), drawer interiors, and melamine shelving to be "Frosty White" melamine.
 - All cabinetry toe kicks are to match the cabinet finish material (plastic laminate or wood).
- Cabinetry Hardware:**
- Pulls on all cabinetry to be Signature Hardware - Novak Brass Cabinet Pull - Matte Black - 3-3/4" Centers - SKU 489717
- Wall Ceiling Finishes:**
- All gypsum board surfaces are to be finished smooth, with any readily visible imperfections in gypsum board surfaces to be coated with joint compound and sanded and subfloor to be set as needed to accommodate finish materials (i.e., carpet, ceramic tile) for flush installation.
 - All gypsum wallboard surfaces to be painted are to receive one coat primer (tinted to match topcoat color) and two coats paint.
 - All HVAC returns to be painted to match the wall.
 - Replace damaged ceiling panels with new panels to match existing - see AC1.
- Electrical Devices:**
- Electrical devices and plates shall be ivory.
- Floor Finishes:**
- Luxury Vinyl Plank flooring to be installed with direct glue method. Finished floor surfaces are to be in the same plane. Flooring substrates (i.e., cement board) and subfloor to be set as needed to accommodate finish materials (i.e., carpet, ceramic tile) for flush installation.
 - Provide an additional 1 box of RT2 and 2 boxes of CPT1 for Owner's future use.
 - Order all flooring and tile types together to ensure matching dye lots.

GENERAL NOTES

- Owner to retain all overages of carpet, ceramic tile, glass mosaic tile, grout, wall covering, acoustical ceiling panels and paint.
- All finish materials are to be installed according to product manufacturer's most current recommendations (including adhesives, surface preparation, subfloor / substrate conditions, moisture barriers, etc). Subcontractors are responsible for verifying all requirements with product manufacturers.
- General Contractor to provide Owner with most current manufacturer's recommendations for care and maintenance for each finish material specified upon project completion.
- Subcontractors must provide 1 sample each of each carpet, ceramic tile, glass mosaic tile, wall base, transition moldings, paint (draw down), wood species (with finish), wallcovering, plastic laminate, PVC edge banding, acoustical ceiling panels, and engineered quartz for Owner's approval prior to ordering.
- General Contractor to verify all tile, wallcovering, and upholstery dye-lots match when ordering.
- General Contractor is responsible for verifying all dimensions on site / in field.
- In the event discrepancies or conflicts arise within this Room Finish Schedule or between this Room Finish Schedule and the associated architectural drawings, the contractor shall notify the interior designer immediately for clarification.
- General Contractor is responsible for verifying lead times on all finish materials upon award of construction contract and scheduling orders accordingly.
- General Contractor responsible for backing, bracing and framing as necessary.
- Shop drawings and submittals must be provided for new designers review prior to ordering materials and commencement of fabrication.
- Walk thru required with contractor, designer, and sub-contractor to verify locations, dimensions, layouts, etc., prior to ordering materials.
- If any materials are to be value engineered based on project budget, our design fee will be re-evaluated and discussed with client prior to re-selection.

| | | | | | |
|--------|---|--------|--|-----------|--|
| 064116 | PLASTIC-LAMINATE-FACED ARCHITECTURAL CABINETS PL1 Cabinet Front Mfr: Wilsonart Style: Norwegian Ash Color: 8241-38 Finish: Fine Velvet Finish | 096519 | RESILIENT TILE FLOORING RT1 break room Mfr: Patcraft Series: Earthen 5mm Style: 1677V Color: Ash-V2 00560 Size: 12" x 24" x 1/8" tile Installation: Brick Accessory: TS1 | 099123 | INTERIOR PAINTING P1 offices, open office areas Mfr: Sherwin Williams Series: ProMar 200 VOC Type: Latex Primer Coat: as needed to insure adhesion Intermediate Coat: same as top coat Color: SW 7016, Mindful Gray Gloss Finish: Eggshell |
| | PL2 Cabinet Interior/Semi-Exposed Material: melamine Color: White | 096813 | TILE CARPETING CPT1 Mfr: Shaw Contract Series: Ponder Tile Style: 5T596 Color: Reveal 93761 Size: 24" x 24" tile Installation: quarter turn | P2 | break room Mfr: Sherwin Williams Series: ProMar 200 VOC Type: Latex Primer Coat: as needed to insure adhesion Intermediate Coat: same as top coat Color: SW 7017, Dorlan Gray Gloss Finish: Eggshell |
| 095113 | ACOUSTICAL PANEL CEILINGS AC1 for damaged panel replacement as required - to match existing Mfr: Armstrong Series: Ultima Model: 1912 Edge Profile: Beveled Tegular Color: white Size: 24" x 24" x 3/4" Grid: 15/16" exposed tee, white | 097200 | WALL COVERINGS WC1 Mfr: Tri-KES (Momentum) Series: Alexandria Color: Dove SKU: 2VAX-16 | 123661.19 | QUARTZ AGGLOMERATE COUNTERTOPS Q1 breakroom countertops Mfr: Cambria Color: Foggy City Thickness: 2 cm Edge Detail: Seaciff Edge Finish: Polished |
| 096513 | RESILIENT BASE AND ACCESS. RB1 field with carpet Mfr: Johnsonite Color: TA4 Gateway WG Height: 4" Thickness: 1/8" Type: vinyl, straight | | | | |
| | TS1 Resilient-to-Carpet Mfr: Johnsonite Model: Slim Line Color: 40 Black | | | | |

Finish Schedule & Material Specifications

| K | DOOR | | DOOR SIZE | | | FRAME | | | FRAME DETAIL | | | HAND | FIRE LABEL | HINGE | LATCH SET | STRIKE | DOOR CONTR'L | EXIT DEVICE | CLOS'R | PUSH PULL | KICK PLATE | STOP | MISC | NOTES | No. | | |
|------|--------|--------|-----------|--------|--------|--------|--------|--------|--------------|--------|------|------|------------|-------|-----------|--------|--------------|-------------|--------|-----------|------------|------|------|-------|-----|------|------|
| | No. | MAT'L | TYPE | FINISH | W | H | T | MAT'L | TYPE | FINISH | HEAD | | | | | | | | | | | | | | | JAMB | SILL |
| | 600A | MTL/GL | 2 | *1 | 2'-10" | 8'-4" | 1/2" | MTL/GL | B | *1 | - | | | | | | | | | | | | | | | - | - |
| 600B | MTL/GL | 2 | *1 | 2'-10" | 8'-4" | 1/2" | MTL/GL | B | *1 | - | - | - | LH | - | EXTG | EXTG | EXTG | EXTG | - | EXTG | EXTG | - | - | - | *1 | 600B | |
| 624 | WD | 1 | EXTG / PL | 3'-0" | 8'-4" | 1 3/4" | WD | A | EXTG / ST1 | - | - | - | RH | - | EXTG | EXTG | EXTG | - | - | - | - | - | EXTG | - | - | 624 | |
| 626 | WD | 1 | EXTG / PL | 3'-0" | 8'-4" | 1 3/4" | WD | A | EXTG / ST1 | - | - | - | LH | - | EXTG | *3 | EXTG | - | - | - | - | - | EXTG | - | *3 | 626 | |
| 628 | WD | 1 | EXTG / PL | 3'-0" | 8'-4" | 1 3/4" | WD | A | EXTG / ST1 | - | - | - | LH | - | EXTG | EXTG | EXTG | *2 | - | - | - | - | EXTG | - | *2 | 628 | |

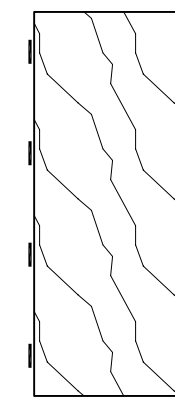
NOTES:

- Existing all-glass double doors with sidelites: Re-finish upper and lower bronze rails on the glass doors and sidelite glass, upper door frame and hardware. Deep clean the metal, apply silver metalizing coating to simulate a brushed nickel-silver appearance and clear coat for protection. Re-finishing to be performed by: Reidy Metal Services, Inc.; 575 Nucla Way, Aurora, CO, 80011; (303) 361.9000; (800) 421.0513.
- Re-use existing salvaged card reader at this location.
- Re-use existing salvaged punch keypad latchset (cypher lock) at this location.

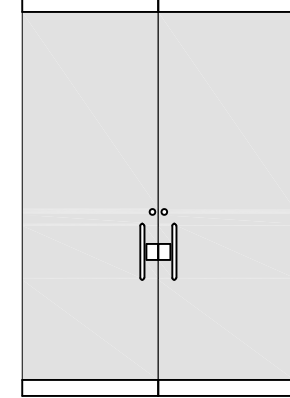
K9 Door Schedule

- HINGE
H1 Re-use or match existing.
- LATCH SETS
LS1 Re-use or match existing manufacturer, series, model, lever/rose and finish. Coordinate function with Tenant.
- STRIKE
STR1 Type: Manufacturer's standard
Re-use or match existing.
- STR2 Type: Electric Strike
Re-use or match existing.
- DOOR CONTROL
DC1 Re-use or match existing.
- CLOSER
C1 Re-use or match existing.
- STOP
S1 Type: Wall
Re-use or match existing.

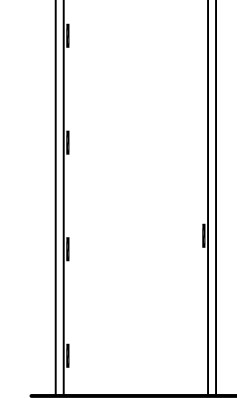
H9 Hardware Specifications



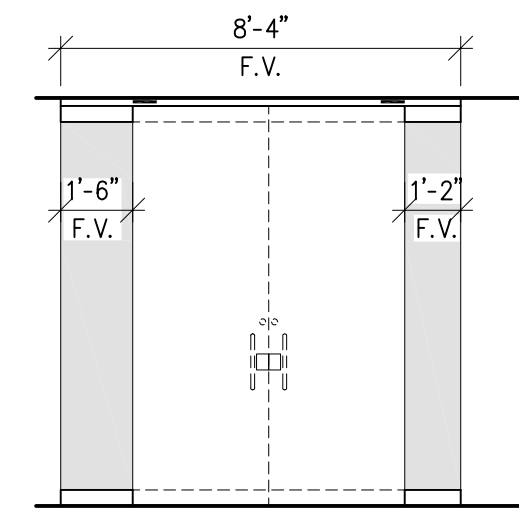
1. EXISTING WOOD, SOLID CORE: Premium Grade; Plastic laminate faces and edges. Re-use existing doors to the extent possible.



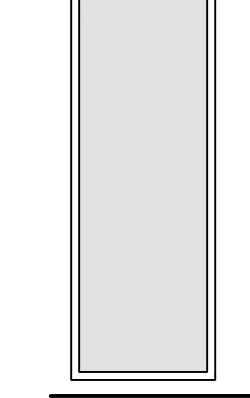
2. EXISTING ALL GLASS, DOUBLE w/ SIDELITES at Entry 600: Re-finish upper and lower bronze rails and hardware on the glass doors: Deep clean the metal, apply silver metalizing coating to simulate a brushed nickel-silver appearance, and clear coat for protection. Re-finishing to be performed by: Reidy Metal Services, Inc.; 575 Nucla Way, Aurora, CO, 80011; (303) 361.9000; (800) 421.0513.



A. EXISTING WOOD, SINGLE: door frame - species, cut 2" wide profile and finish to match existing adjacent frames on same floor. Re-use existing frames to the extent possible.



B. EXISTING FRAME for ALL-GLASS, DOUBLE DOORS w/ SIDELITES at Entry 600: Re-finish bronze top rail, all hardware and top and bottom rails of sidelight glass: Deep clean the metal, apply silver metalizing coating to simulate a brushed nickel-silver appearance, and clear coat for protection. Re-finishing to be performed by: Reidy Metal Services, Inc.; 575 Nucla Way, Aurora, CO, 80011; (303) 361.9000; (800) 421.0513.



C. WOOD SIDELITE to MATCH EXISTING: - species / cut / 2" wide profile to match existing adjacent frames. Re-use existing salvaged frames to the extent possible.

DOOR TYPES

F9 Door & Frame Types

FRAME TYPES

| Commercial Appliance Schedule | | | | | |
|---|----------|--------------------------------|--------------|---------------|--------------------------|
| Provided, set in place, and installed by GC | | | | | |
| Mark | Quantity | Description | Manufacturer | Model | Notes |
| CA-1 | 2 | Slide Door Double Refrigerator | True | GDM-47-HC-LD | Stainless steel exterior |
| CA-2 | 1 | Single Swing Door Freezer | True | FLM-27F-TSL01 | Stainless steel exterior |
| CA-3 | 1 | Dishwasher | LG | ADFD5448AT | Stainless Steel |
| CA-4 | 2 | Microwave | Panasonic | NE-1054 | Stainless Steel |

Commercial Appliance Schedule

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402.475.7234

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Alvine Engineers
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Omaha, NE 68102
402.346.7007
Structural Engineer

Civil Engineer

Interior Designer
JH Interior Design
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Omaha, NE 68114
402.934.3474 ext. 108

DAN MULLIGAN
A-1918
I, Dan Mulligan, am the Coordinating Professional on the 6th Floor Office remodel for Frankel Zacharia.

Agency Approval

Frankel Zacharia
Sixth Floor Remodel
11404 West Dodge Road
Omaha, NE 68154

7/30/2024 Construction Documents

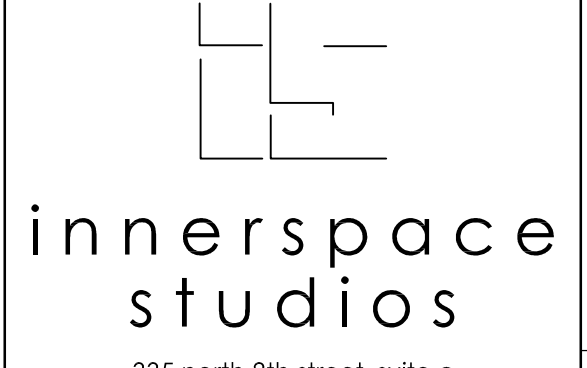
Schedules and Finish Material Specifications

Designed: djm
Drawn by: elb
Reviewed:
Proj: 4955

Sheet No.
A000

File Path

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|---|---|---|---|---|---|---|---|---|----|----|----|----|----|----|----|----|
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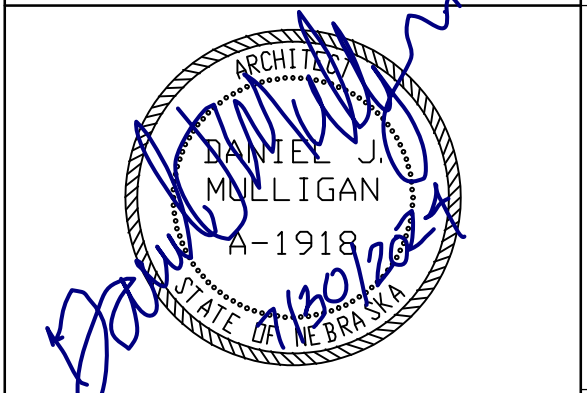
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Alvine Engineers
1201 Cass Street
Omaha, NE 68102
402.346.7007



Interior Designer
JH Interior Design
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Omaha, NE 68114
402.934.3474 ext. 108



I, Dan Mulligan, am the
Coordinating Professional on
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for Frankel Zacharia.

Agency Approval

061053 MISCELLANEOUS ROUGH CARPENTRY
A. Concealed blocking and plywood backing panels to be fire-retardant-treated wood interior Type A. Plywood to be DCC PS 1, Exposure 1, C-D Plugged, not less than 3/4 inch nominal thickness, unless otherwise indicated. Dimension lumber framing to be No. 2 grade or better with 19 percent maximum moisture content.

062023 INTERIOR FINISH CARPENTRY
A. Submit samples for each type of trim, for each species and cut, finished on one side.

064116 PLASTIC-LAMINATE-FACED ARCHITECTURAL CABINETS
A. Submit the following:
1. Shop drawings.
2. Product data for cabinet hardware and accessories.
3. Samples for plastic laminates for each color, pattern, and surface finish.

064116 PLASTIC-LAMINATE-FACED ARCHITECTURAL CABINETS
B. Comply with AWTs "Architectural Woodwork Standards."
1. Cabinets to be grade Custom, unless specified otherwise as Premium.
2. Cabinets to be frameless flush overlay construction, unless indicated otherwise.

064116 PLASTIC-LAMINATE-FACED ARCHITECTURAL CABINETS
C. MDF to be Grade 130 with no urea-formaldehyde resins. Particleboard to be Grade M-2 with no urea-formaldehyde resin. Thermoset panels thermally fused, melamine-impregnated paper complying with NEMA LD3, Grade VGL.

064116 PLASTIC-LAMINATE-FACED ARCHITECTURAL CABINETS
D. Complete fabrication to maximum extent possible before shipment to Project site. Disassemble components only as necessary for shipment and installation. Where necessary for fitting at site, provide ample allowance for scribbing, trimming, and fitting.

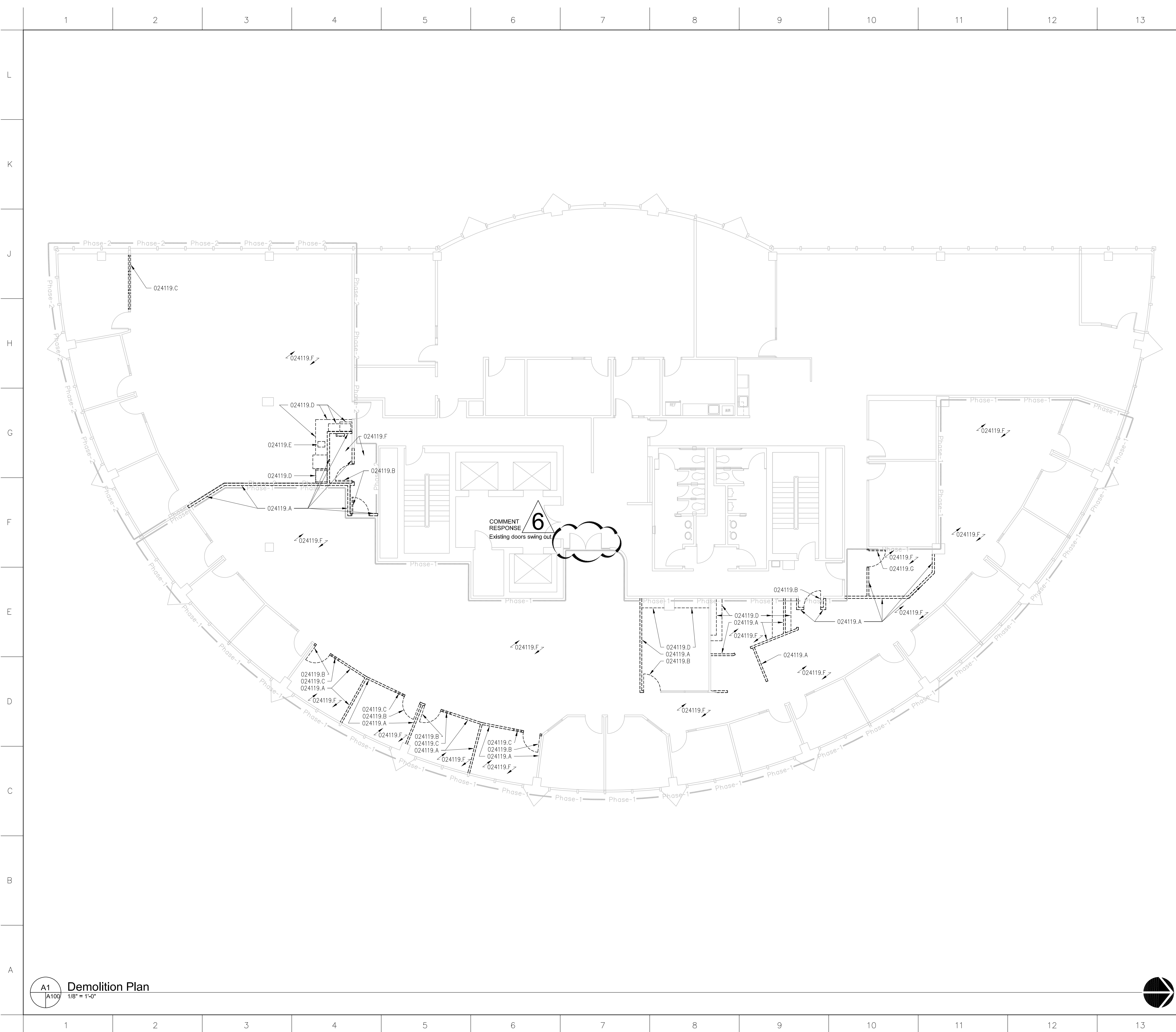
064116 PLASTIC-LAMINATE-FACED ARCHITECTURAL CABINETS
E. Shop-cut openings to maximum extent possible. Locate correctly sized and shaped openings accurately. Sand edges of cutouts to remove splinters and burrs.

064116 PLASTIC-LAMINATE-FACED ARCHITECTURAL CABINETS
F. Before installation, condition materials to installation areas for a minimum of 24 hours.

064116 PLASTIC-LAMINATE-FACED ARCHITECTURAL CABINETS
G. Install level, plumb, true, and straight. Shim as required with concealed shims. Install straight, level, and plumb to tolerance of 1/8 inch in 96 inches. Scribe and cut to fit adjoining work, refresh cut surfaces, and repair damaged finish at cuts.

064116 PLASTIC-LAMINATE-FACED ARCHITECTURAL CABINETS
H. Anchor to anchors or blocking built in or directly attached to substrates. Secure with countersunk, concealed fasteners, and blind nails. Use fine finishing nails or finishing screws for exposed fastening, countersunk and filled flush.

| | |
|---------------|-------------|
| Designed: djm | Sheet No. |
| Drawn by: elb | A001 |
| Reviewed: | |
| Proj: 4955 | |



| | |
|-----------------------------------|--|
| REFERENCE KEYNOTES | |
| Division 02 - Existing Conditions | |
| 024119 - Selective Demolition | |
| 024119.A | Remove gwb wall assembly. |
| 024119.B | Remove door, frame & hardware. Salvage for re-use on this project. |
| 024119.C | Remove sidelite assembly. Salvage to re-use on this project as required. |
| 024119.D | Remove millwork. Patch wall surfaces as required for scheduled finish. |
| 024119.E | Remove plumbing fixture. |
| 024119.F | Remove existing flooring and base. Clean and prepare subfloor surface as required for scheduled finish. |
| 024119.G | Remove door, frame and hardware. Salvage for use on this project at new Door 626. Salvage card reader for use on Door 626. |

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Mechanical/Electrical Engineers
Alvine Engineers
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Structural Engineer

Civil Engineer

Interior Designer
JH Interior Design
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Omaha, NE 68114
402.934.3474 ext. 108

DANIEL J. MULLIGAN
A-1918

I, Dan Mulligan, am the Coordinating Professional on the 6th Floor Office remodel for Frankel Zacharia.

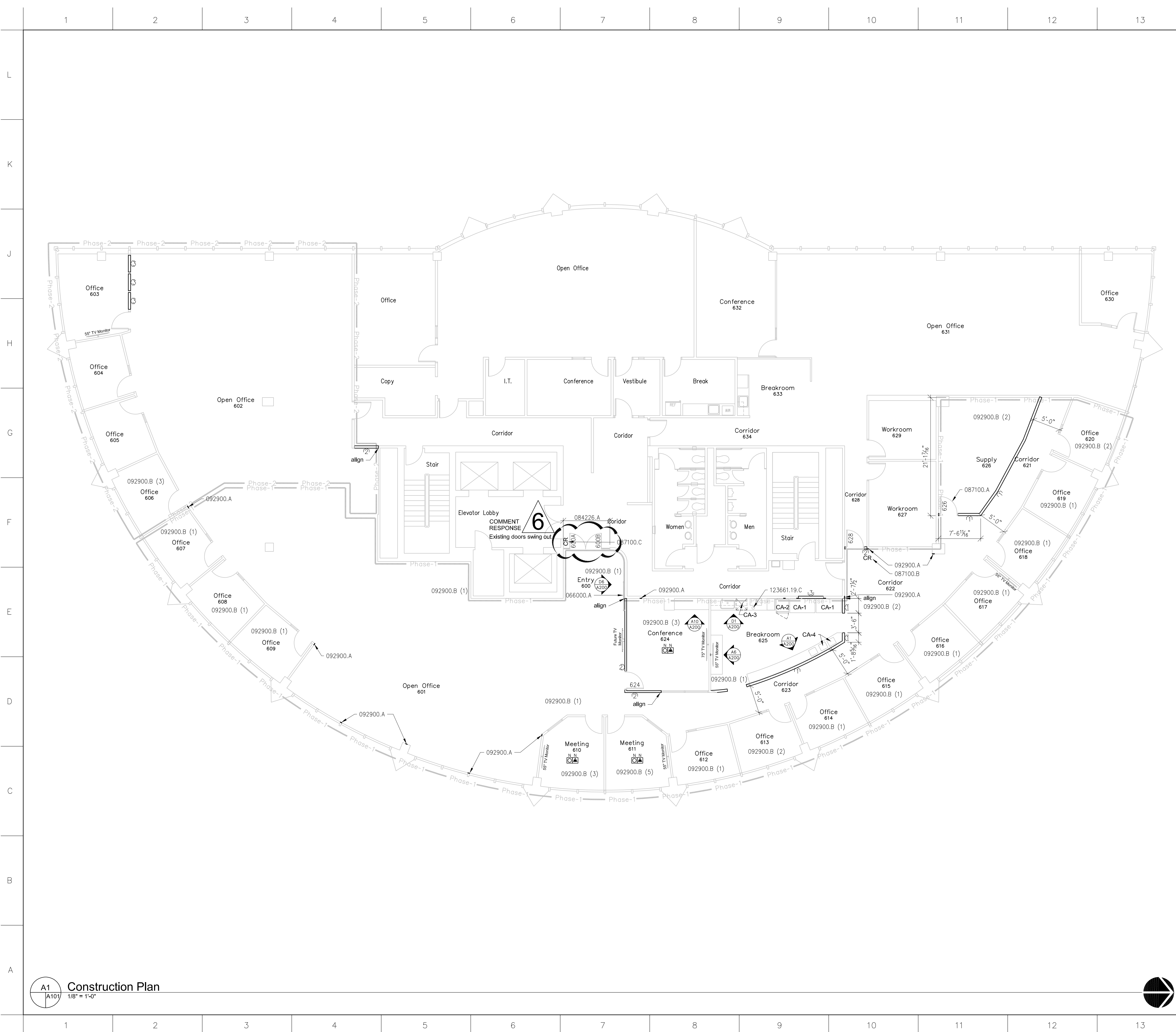
Agency Approval

graphic scale: 1/8" = 1'-0"
0 2' 4' 8' 12' 20'

| | |
|---|--|
| Demolition Notes | |
| 1. Carefully demolish and remove from the site those items indicated to be demolished. | |
| 2. By careful study of the contract documents, determine and verify the location and extent of the selective demolition to be performed. Mark interface surfaces, in a non-damaging manner, as required to enable workers to identify items to be left in place intact. | |
| 3. In the event of demolition of, or damage to, items not indicated to be demolished, promptly replace or repair such items, at no additional cost to the Owner, to the approval of the Architect and Owner. | |
| 4. If uncovered conditions are not as anticipated, immediately notify Architect and secure needed directions. Do not proceed until unsatisfactory conditions are corrected. Proceeding with the Work constitutes acceptance of conditions. | |
| 5. Building life safety systems to remain operational throughout work. Protect automatic smoke sensors from dust and dust accumulation. Coordinate any temporary disconnections with Building Manager, Architect, Owner, Fire Marshal, and authorities having jurisdiction. | |

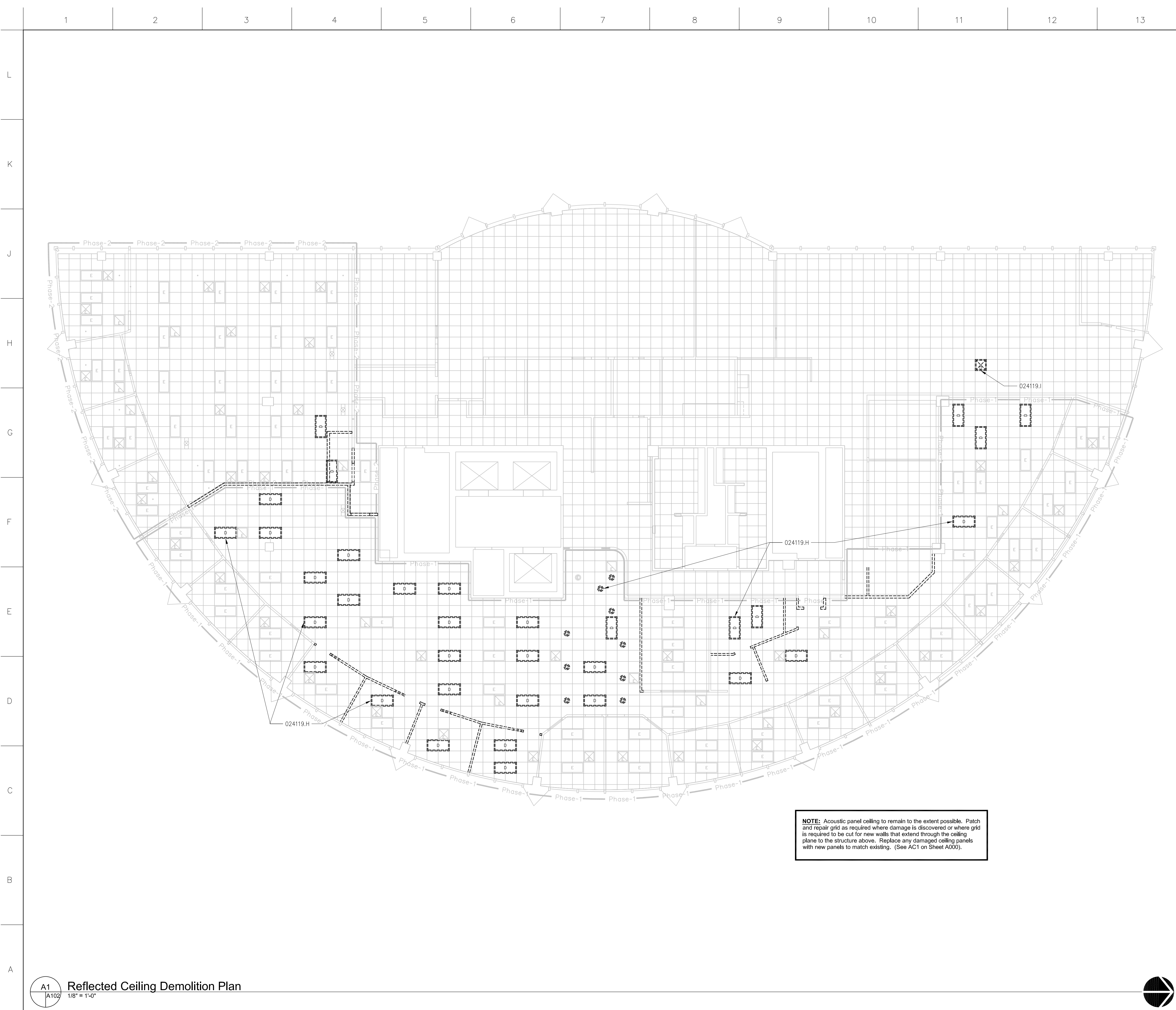
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|------------------------|-------------|
| Demolition Plan | |
| Designed: djm | Sheet No. |
| Drawn by: elb | A100 |
| Reviewed: | |
| Proj: 4955 | File Path: |

A1
A100 Demolition Plan
1/8" = 1'-0"



| REFERENCE KEYNOTES | |
|--|---|
| Division 06 - Wood, Plastics, And Composites | |
| 066000 - Plastic Fabrications | |
| 066000.A | Fabricated decorative plastic panel with polished edges, stanton mounted to wall. Signage by Tenant's vendor. |
| Division 08 - Openings | |
| 084226 - All-Glass Entrances | |
| 084226.A | Existing all-glass double doors with sidelites: Re-finish upper and lower bronze rails on the glass doors and sidelite glass, upper door frame and hardware. Deep clean the metal, apply silver metalizing coating to simulate a brushed nickel-silver appearance and clear coat for protection. Re-finishing to be performed by: Reidy Metal Services, Inc.; 575 Nucla Way, Aurora, CO, 80011; (303) 361.9000; (800) 421.0513. |
| 087100 - Door Hardware | |
| 087100.A | Re-use existing salvaged punch keypad latchset (cypher lock) at this location. |
| 087100.B | Re-use existing salvaged card reader at this location. |
| 087100.C | Activate existing card reader. |
| 088000 - Glazing | |
| 088000.A | Install new window to match existing adjacent windows (match materials, frame member size, finish, head and sill height, finish and glazing type; Window width to extend from existing frame to just short of open door swing of door 624). |
| Division 09 - Finishes | |
| 092900 - Gypsum Board | |
| 092900.A | Patch and repair wall finish. |
| 092900.B | Patch and repair GWB wall finish at abandoned (demolished) electrical devices. Do not cover with blank wall plates. Approximately 35 locations throughout - see (#) at end of note for number of repairs at that approximate location/room. Coordinate with Electrical Demolition Plan |
| <p>do not scale drawings - verify all dimensions and clearances of site or from architectural, structural shop, and other appropriate drawings. Verify and coordinate all equipment to installers to provide clearances required for operation, maintenance, and codes. Verify non-interference with other work. do not fabricate prior to verification of clearances for all trades.</p> <p>Mechanical/Electrical Engineers Alvine Engineers 1201 Cass Street Omaha, NE 68102 402.346.7007 Structural Engineer</p> <p>Civil Engineer</p> <p>Interior Designer JH Interior Design 721 N 98th Street Omaha, NE 68114 402.934.3474 ext. 108</p> <p>ARCHITECT DANIEL J. MULLIGAN A-1918 STATE OF NEBRASKA</p> <p>I, Dan Mulligan, am the Coordinating Professional on the 6th Floor Office remodel for Frankel Zacharia.</p> <p>Agency Approval</p> <p>graphic scale: 1/8" = 1'-0" 0 2' 4' 8' 12' 20'</p> <p>Construction Notes</p> <ol style="list-style-type: none"> All dimensions are taken from the finished face of existing and new construction. The General Contractor is to field verify all dimensions prior to construction and notify the Architect of any discrepancies before proceeding with the Work. When patching and repairing, the intent is to provide a seamless and undetectable match to existing construction. Repair any surfaces that are damaged and prepare for scheduled finish. If no finish is scheduled, match existing finish of surface. Provide a satisfactory finished surface on which to position counters and adequate means of setting millwork; coordinate installation with millwork supplier. Do not proceed until unsatisfactory conditions are corrected. Proceeding with the Work constitutes acceptance of conditions. <p>Wall Type Definitions</p> <ol style="list-style-type: none"> One layer of 5/8" type "X" gypsum wallboard attached to each side of 3-5/8" min. 20 gauge (0.0296" thick) metal studs at 16" on center. Place 3" thick sound attenuation blanket, full height in wall cavity. Acoustical sealant each side of the top and bottom runner channel. At floors, provide 1/2" wide space entire length of gypsum board. Walls to terminate at ceiling. One layer of 5/8" type "X" gypsum wallboard attached to each side of 3-5/8" min. 20 gauge (0.0296" thick) metal studs at 16" on center. Place 3" thick sound attenuation blanket, full height in wall cavity. Acoustical sealant each side of the bottom runner channel. At floors, provide 1/2" wide space entire length of gypsum board. Walls to extend to structure above. Fill in door / window opening with one layer of 5/8" type "X" gypsum wallboard attached to each side of min. 20 gauge (0.0296" thick) metal studs at 16" on center. Place 3" thick sound attenuation blanket, full height in wall cavity. Acoustical sealant each side of the bottom runner channel. At floors, provide 1/2" wide space entire length of gypsum board. Total in-fill thickness to match adjacent existing wall. | |
| <p>7/30/2024 Construction Document</p> <p>09/12/2024 COMMENT RESPONSE</p> <p>Construction Plan</p> <p>Designed: djm Sheet No. Drawn by: elb A101 Reviewed: Proj: 4955 File Path:</p> | |

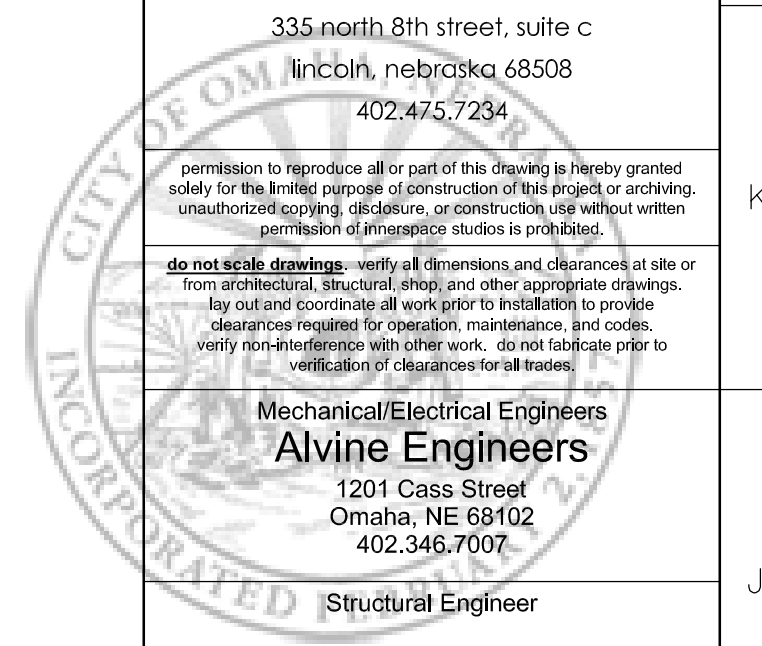
A1 Construction Plan
1/8" = 1'-0"



REFERENCE KEYNOTES

| | |
|--------------------------------------|---|
| Division 02 - Existing Conditions | |
| 024119 - Selective Demolition | |
| 024119.H | Remove existing light fixture and salvage for re-use on this project. Refer to Electrical drawings and specifications for additional information. |
| 024119.I | Remove existing HVAC device and salvage for re-use on this project. Refer to Mechanical drawings and specifications for additional information. |

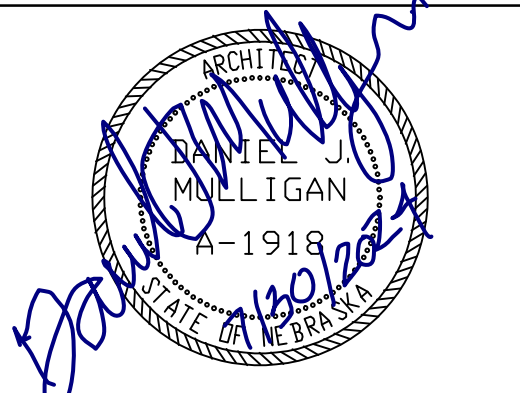
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 lincoln, nebraska 68508
 402.475.7234



Mechanical/Electrical Engineers
Alvine Engineers
 1201 Cass Street
 Omaha, NE 68102
 402.346.7007
 Structural Engineer

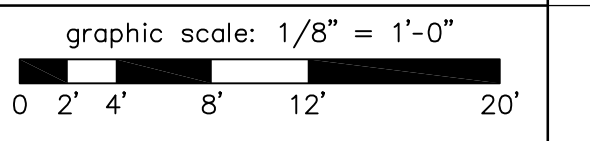
Civil Engineer

Interior Designer
JH Interior Design
 721 N 98th Street
 Omaha, NE 68114
 402.934.3474 ext. 108



I, Dan Mulligan, am the
 Coordinating Professional on
 the 6th Floor Office remodel
 for Frankel Zacharia.

Agency Approval



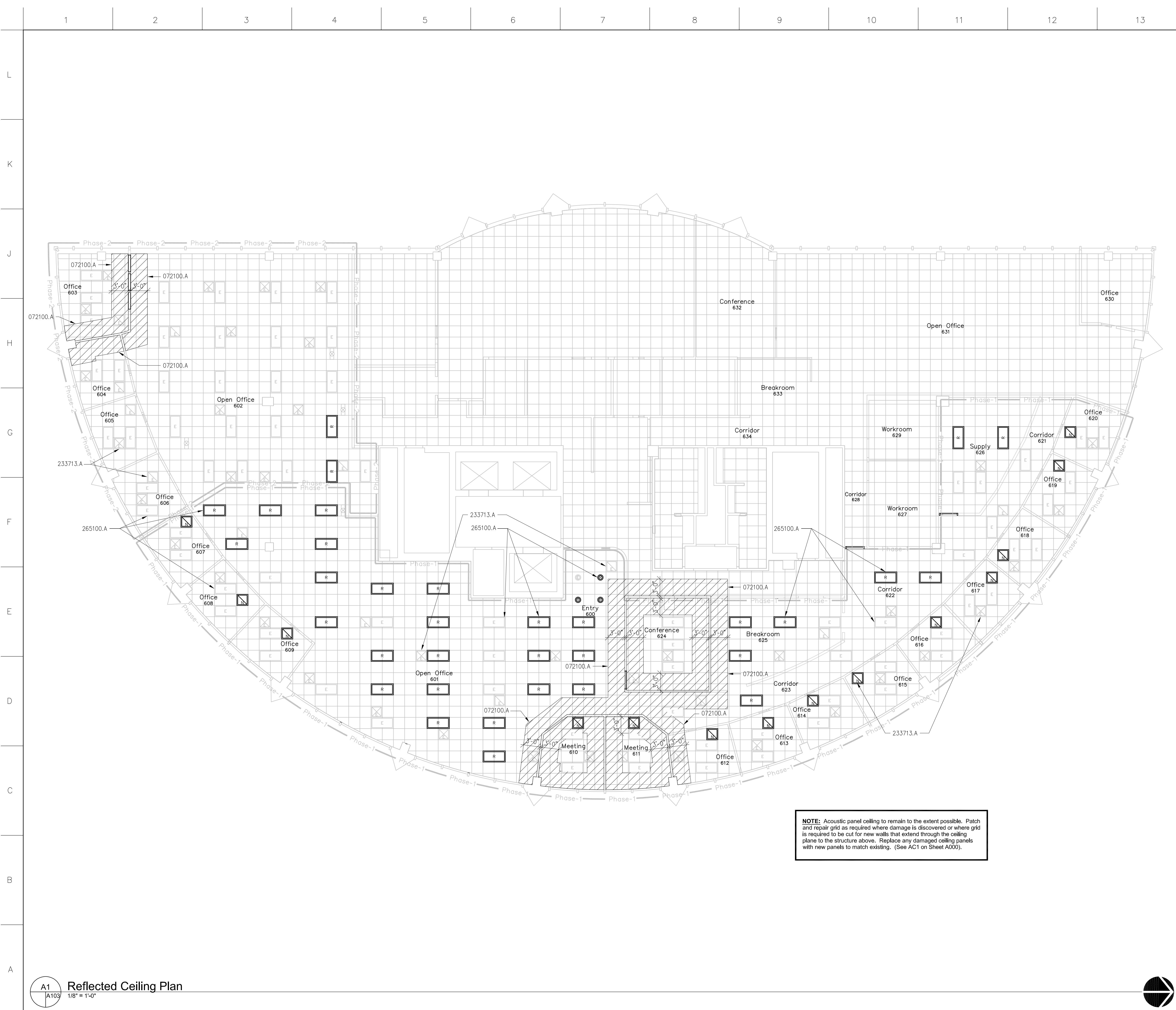
Frankel Zacharia
Sixth Floor Remodel
 11404 West Dodge Road
 Omaha, NE 68154

7/30/2024 Construction Documents

Reflected Ceiling Demolition Plan

| | |
|---------------|-------------|
| Designed: djm | Sheet No. |
| Drawn by: elb | A102 |
| Reviewed: | |
| Proj: 4955 | File Path: |

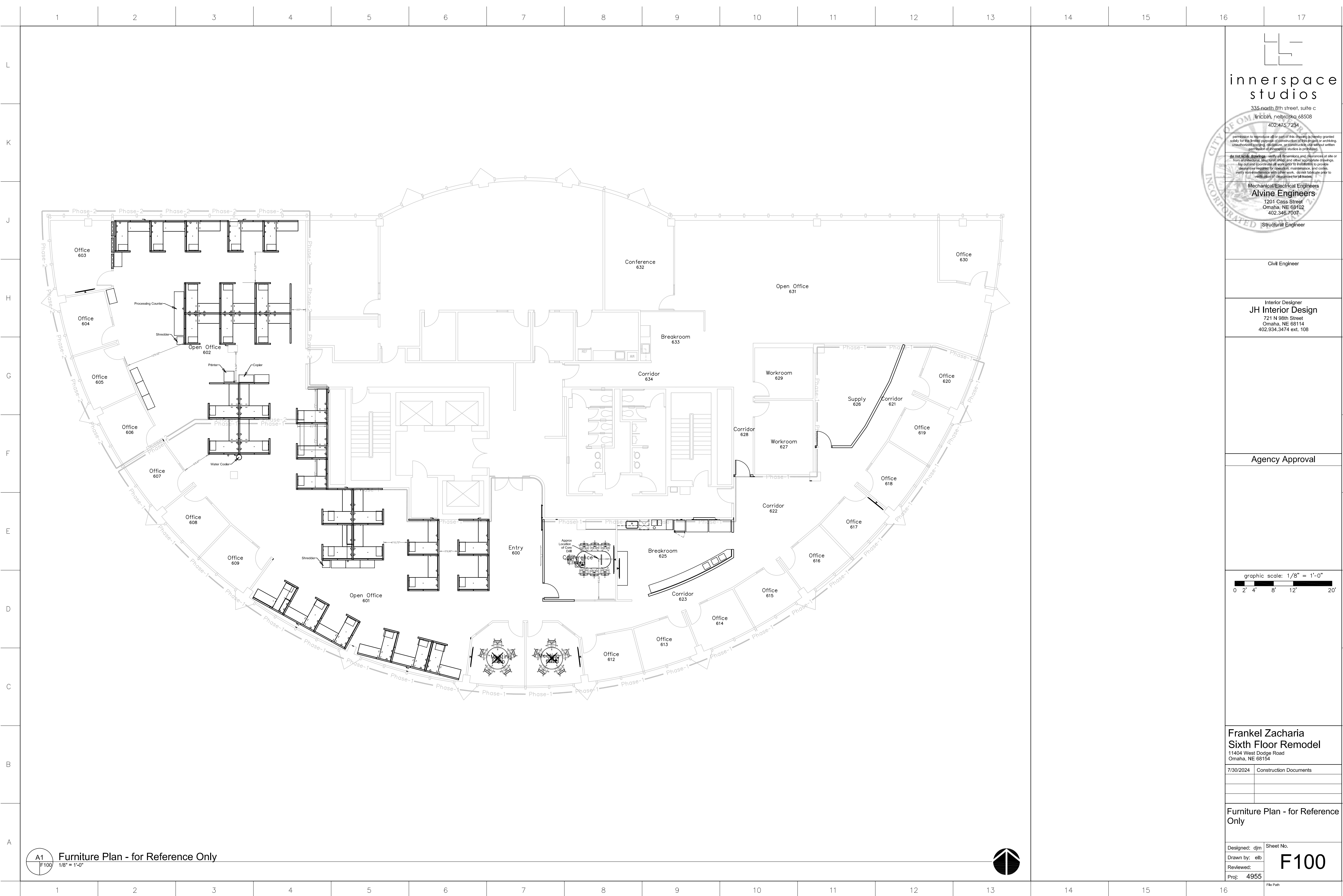
A1 Reflected Ceiling Demolition Plan
 A102 1/8" = 1'-0"



| | | |
|--|--|---|
| REFERENCE KEYNOTES Division 07 - Thermal And Moisture Protection 072100 - Thermal Insulation 072100.A Acoustical batt insulation; provide 3-1/2" thick, unfaced; Sonobatts insulation by Owens Corning (or approved equal) on top of ceiling grid. Extend insulation a min. of 3'-0" to each side of partition below. Trim insulation around all lights, electrical, and mechanical fixtures or components. | | |
| Division 23 - Heating Ventilating And Air Conditioning 233713 - Diffusers, Registers, And Grilles 233713.A HVAC device. Refer to Mechanical drawings and specifications for existing, relocated and new devices. | | |
| Division 26 - Electrical 265100 - Interior Lighting 265100.A Scheduled light fixture. Refer to Electrical drawings and specifications. Note - there is a Lighting and Fire Alarm Plan - Base bid and Alternate 1 (Sheet E101), and a Lighting and Fire Alarm Plan - Alternate 2 (Sheet E102). | | |
| Mechanical/Electrical Engineers Alvine Engineers 1201 Cass Street Omaha, NE 68102 402.346.7007 Structural Engineer | | |
| Civil Engineer Interior Designer JH Interior Design 721 N 98th Street Omaha, NE 68114 402.934.3474 ext. 108 | | <p>I, Dan Mulligan, am the Coordinating Professional on the 6th Floor Office remodel for Frankel Zacharia.</p> |
| Agency Approval | | Frankel Zacharia Sixth Floor Remodel 11404 West Dodge Road Omaha, NE 68154 7/30/2024 Construction Documents |
| Reflected Ceiling Notes 1. The General Contractor is to field verify all conditions prior to construction and notify the Architect of any discrepancies before proceeding with the Work. 2. Coordinate ceiling work with installation of Mechanical and Electrical work. Correct any conflicts resulting from failure to provide necessary coordination, at no additional cost to the Owner, at the approval of the Architect, Engineers, and Owner. 3. Layout of ceiling grid is general in location; verify exact layout in the field. Resolve discrepancies between indicated and actual layout prior to installing/adjusting/repairing ceiling. 4. Utilize wire hangers to support ceiling suspension grid system. Attach wires to structure or similar frame work. Do not attach to duct work or other work. 5. Adequately support Mechanical and Electrical work which is to be incorporated into ceiling work. Support all four corners of ceiling systems from sagging or deflecting. 6. Lighting type and positions to be verified. Notify Architect prior to any adjustments to the light layout or position of other ceiling devices. 7. Center ceiling devices in 2x2 grid spacing, unless building standard is otherwise. | | Reflected Ceiling Plan Designed: djm Drawn by: elb Reviewed: Proj: 4955 Sheet No. A103 File Path |

A1
A103
Reflected Ceiling Plan
1/8" = 1'-0"





A1 Furniture Plan - for Reference Only
1/8" = 1'-0"

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do not scale drawings - verify all dimensions and clearances of site or from architectural, structural, and other appropriate drawings. by using and installing all equipment to installation to provide clearances required for operation, maintenance, and codes. verify non-interference with other work. do not fabricate prior to verification of clearances for all items.



Mechanical/Electrical Engineers
Alvine Engineers
1201 Cass Street
Omaha, NE 68102
402.346.7007
Structural Engineer

Civil Engineer

Interior Designer
JH Interior Design
721 N 98th Street
Omaha, NE 68114
402.934.3474 ext. 108

Agency Approval

graphic scale: 1/8" = 1'-0"
0 2' 4' 8' 12' 20'

Frankel Zacharia
Sixth Floor Remodel
11404 West Dodge Road
Omaha, NE 68154

7/30/2024 Construction Documents

Furniture Plan - for Reference Only

| | |
|---------------|-------------|
| Designed: djm | Sheet No. |
| Drawn by: elb | F100 |
| Reviewed: | |
| Proj: 4955 | |

File Path

MECHANICAL SYMBOLS

| PLUMBING | | | | | |
|----------|---------------------------------------|-----------------------|------------------------------------|--------|--------------------------------|
| SYMBOL | DESCRIPTION | SYMBOL | DESCRIPTION | SYMBOL | DESCRIPTION |
| ---AV--- | ACID VENT | ---140°--- | HOT WATER 140° | GO | GRADE CLEAN OUT |
| ---AW--- | ACID WASTE (ABOVE FLOOR) | ---140°--- | HOT WATER CIRCULATING 140° | GO | DOUBLE GRADE CLEAN-OUT |
| ---AW--- | ACID WASTE (BELOW FLOOR) | G | NATURAL GAS | HB | HOSE BIBB |
| --- | COLD WATER (CW) | OF | OVERFLOW STORM DRAIN (ABOVE FLOOR) | WH | WALL HYDRANT (NON-FREEZE TYPE) |
| ---S--- | COLD SOFT WATER | ---OF--- | OVERFLOW STORM DRAIN (BELOW FLOOR) | Y.H. | YARD HYDRANT |
| A | COMPRESSED AIR | --- | SANITARY DRAIN (ABOVE FLOOR) | BFP | BACK FLOW PREVENTER |
| --- | EXISTING SANITARY DRAIN (ABOVE FLOOR) | --- | SANITARY SEWER (BELOW FLOOR) | FD-X | FLOOR DRAIN SIZE-TYPE |
| --- | EXISTING SANITARY SEWER (BELOW FLOOR) | SS | SITE STORM SEWER | FS-X | FLOOR SINK SIZE-TYPE |
| --- | EXISTING STORM DRAIN (ABOVE FLOOR) | S | STORM DRAIN (ABOVE FLOOR) | RD-X | ROOF DRAIN SIZE-TYPE |
| ---S--- | EXISTING STORM DRAIN (BELOW FLOOR) | ---S--- | STORM DRAIN (BELOW FLOOR) | DS | DOWN SPOUT |
| ---SS--- | EXISTING SUB SOIL DRAIN | ---SS--- | SUB SOIL DRAIN | MH | MANHOLE |
| ---AW--- | EXISTING ACID WASTE (ABOVE FLOOR) | ---V--- | VENT | VTR | VENT THROUGH ROOF ON RISER |
| ---AW--- | EXISTING ACID WASTE (BELOW FLOOR) | W | SITE WATER PIPING | 1 | PLUMBING RISER NUMBER |
| --- | HOT WATER (HW) | V | VACUUM BREAKER | SH | SHOWER |
| --- | HOT WATER CIRCULATING (HWC) | GC | GAS COCK | | |
| --- | HOT SOFT WATER | + | RUNNING TRAP | | |
| --- | HOT SOFT WATER RECIRCULATING | CO ¹ OR CO | CLEAN OUT | | |

| HEATING - VENTILATING - AIR-CONDITIONING | | | |
|--|--|-----------------|--|
| SYMBOL | DESCRIPTION | SYMBOL | DESCRIPTION |
| CWS | CHILLED WATER SUPPLY | | AUTOMATIC CONTROL VALVE, 2-WAY |
| ---CWR--- | CHILLED WATER RETURN | | AUTOMATIC CONTROL VALVE, 3-WAY |
| --- | CONDENSATE OR BOILER FEED PUMP DISCHARGE | | PRESSURE REGULATING VALVE (PRV) |
| CS | CONDENSER WATER SUPPLY FROM TOWER | | PIPE IN SLEEVE |
| ---CR--- | CONDENSER WATER RETURN TO TOWER | | VALVE IN VERTICAL PIPE |
| ---CD--- | COIL OR EQUIPMENT DRAIN | | F AND T TRAP CAP LBS/HR |
| GR | GLYCOL SUPPLY | | BUCKET TRAP CAP LBS/HR |
| ---GS--- | GLYCOL RETURN | AD | AIR QUALITY SENSOR |
| FOS | FUEL OIL SUPPLY | A | AQUASTAT |
| ---FOR--- | FUEL OIL RETURN | CO2 | CO2 SENSOR |
| ---FOV--- | FUEL OIL VENT | H | HUMIDISTAT |
| G | NATURAL GAS | S | REMOTE SENSOR |
| HPWS | HEAT PUMP WATER SUPPLY | T | THERMOSTAT |
| ---HPWR--- | HEAT PUMP WATER RETURN | T _{RS} | THERMOSTAT WITH REMOTE SENSOR |
| ---HPR--- | HIGH PRESSURE CONDENSATE RETURN | | SOLENOID VALVE (REFRIGERANT) |
| HPS | HIGH PRESSURE STEAM | | THERMOSTATIC EXPANSION VALVE (REFRIGERANT) |
| HWS | HOT WATER SUPPLY | | SIGHT GLASS |
| ---HWVR--- | HOT WATER RETURN | | MANUAL AIR VENT |
| ---LPR--- | LOW PRESSURE CONDENSATE RETURN | P | PRESSURE OR TEMPERATURE MEASURING POINTS |
| LPS | LOW PRESSURE STEAM | FS | FLOW SWITCH |
| ---MPR--- | MEDIUM PRESSURE CONDENSATE RETURN | 1 | HEATING RISER |
| MPS | MEDIUM PRESSURE STEAM | | ACCESS DOOR - SIZE AS SHOWN OR PER SPEC. |
| RL | REFRIGERANT LIQUID | | EXPANSION LOOP, LENGTH AND DEPTH |
| RS | REFRIGERANT SUCTION | | FINTUBE-TYPE (SHADED AREA INDICATES CAPACITY MBH ELEMENT LOCATION) |
| RD | REFRIGERANT HOT GAS DISCHARGE | | FT-1 MBH |
| B.D.D. | BACK-DRAFT DAMPER (COUNTER BALANCED) | | NEW TO EXISTING CONNECTION |
| | | | POINT OF DISCONNECT |
| | | | BREAK / CONTINUATION |

MECHANICAL SYMBOLS

| PIPING | | | |
|--------|--|--------|--------------------------------------|
| SYMBOL | DESCRIPTION | SYMBOL | DESCRIPTION |
| --- | TEE | --- | GLOBE VALVE |
| --- | ELBOW | --- | PRESS / TEMP TEST PORT |
| --- | UNION | --- | GATE VALVE |
| --- | STRAINER WITH DRAIN VALVE AND HOSE END | --- | CHECK VALVE (ARROW INDICATES FLOW) |
| --- | BALANCING VALVE | --- | FLEXIBLE PIPING |
| --- | ISOLATION VALVE (BALL OR BUTTERFLY) | --- | AUTOMATIC AIR VENT |
| --- | PRESSURE RELIEF VALVE | --- | MANUAL AIR VENT WITH ISOLATION VALVE |
| --- | ELBOW UP | | |
| --- | ELBOW DOWN | | |

SYMBOLS INDICATED HERE AND NOT USED IN THE CONTRACT DOCUMENTS DO NOT APPLY TO THIS PROJECT. ADDITIONAL SYMBOLS AND ABBREVIATIONS MAY BE INDICATED IN THE CONTRACT DOCUMENTS.

DEMOLITION NOTES:

- THE OWNER SHALL HAVE THE FIRST RIGHT OF SALVAGE FOR ALL MECHANICAL, ELECTRICAL, AND PLUMBING ITEMS BEING REMOVED. IF OWNER DECLINES, THE CONTRACTOR SHALL REMOVE FROM THE PREMISES AND DISPOSE OF PROPERLY, VERIFY OWNER'S INTENT PRIOR TO REMOVAL OR DEMOLITION.
- INFORMATION PERTAINING TO THE EXISTING BUILDING HAS BEEN OBTAINED THROUGH THE BUILDING'S ORIGINAL DRAWINGS WHERE AVAILABLE. REPORT DISCREPANCIES TO THE ARCHITECT/ENGINEER PRIOR TO ANY DEMOLITION. CONTRACTOR SHALL FIELD VERIFY ALL EXISTING CONDITIONS PRIOR TO COMMENCING WORK.
- COORDINATE SHUT DOWN OF ALL UTILITIES FOR DEMOLITION WORK WITH THE OWNER.
- DISCONNECT AND REMOVE MECHANICAL SYSTEMS, EQUIPMENT, AND COMPONENTS AS INDICATED TO BE REMOVED. RETURN EXHAUST OR RELIEF AIR DUCT END OR RISER (RA) (EA) (RLFA) TO ORIGINAL LOCATION. RETURN EXHAUST OR RELIEF AIR DUCT END OR RISER (RA) (EA) (RLFA) TO ORIGINAL LOCATION. RECTANGULAR DUCTWORK (FIRST NUMBER IS SIDE SHOWN) ROUND DUCT FLAT OVAL (FIRST NUMBER IS THE SIDE SHOWN) VOLUME DAMPER MOTORIZED DAMPER FIRE DAMPER WITH ACCESS DOOR COMBINATION FIRE AND SMOKE DAMPER WITH ACCESS DOOR SMOKE DAMPER WITH ACCESS DOOR SOUND ATTENUATOR FLEX CONNECTION SUPPLY REGISTER OR GRILLE RETURN REGISTER OR GRILLE TYP DIFFUSER TYP EXHAUST/RETURN GRILLE MECHANICAL/ELECTRICAL COORDINATION SCHEDULE BREAK / CONTINUATION
- IF PIPE OR EQUIPMENT INSULATION TO REMAIN IS DAMAGED IN APPEARANCE OR IS UNRECOVERABLE, REMOVE DAMAGED OR UNRECOVERABLE PORTIONS AND REPLACE WITH NEW PRODUCTS OF EQUAL CAPACITY AND QUALITY.
- CONTRACTOR IS REQUIRED TO VISIT SITE AND FIELD VERIFY ALL EXISTING CONDITIONS PRIOR TO BIDDING PROJECT.
- COORDINATE DEMOLITION WITH THE WORK OF OTHER TRADES. PROVIDE TEMPORARY UTILITIES AS REQUIRED TO ALLOW THE WORK OF OTHER TRADES TO PROCEED.
- DUCTWORK, PIPING AND EQUIPMENT SHOWN WITH THIN LINES INDICATES EXISTING TO REMAIN. DUCTWORK, PIPING AND EQUIPMENT SHOWN WITH BOLD LINES INDICATES TO BE REMOVED.

SPRINKLER NOTE:

THE TENANT PROJECT AREA OF THE BUILDING SHALL HAVE FIRE PROTECTION SPRINKLER SYSTEM REVISED TO MEET THE REQUIREMENTS OF THE NFPA CODES, THE STATE FIRE MARSHAL'S OFFICE, AND THE OWNER'S APPROVING INSURANCE AGENCY. SPRINKLER CONTRACTOR SHALL COORDINATE THE LOCATIONS OF ALL CEILING MOUNTED SPRINKLER HEADS TO AVOID ANY AND ALL INTERFERENCE WITH ALL OTHER TRADES. IF CONFLICTS DO OCCUR SUCH THAT LIGHTS, DUCTS, DIFFUSERS, GRILLES, OR CEILING SYSTEMS CANNOT BE INSTALLED IN THEIR REQUIRED LOCATIONS DUE TO SPRINKLER PIPING INTERFERENCE, THE PIPING SHALL BE RELOCATED OR REROUTED AT NO ADDITIONAL EXPENSE TO THE PROJECT. SPRINKLER CONTRACTOR SHALL MAINTAIN AN ADEQUATE SUPPLY OF EXTRA PIPING, FITTINGS, AND NECESSARY TOOLS TO MAKE FIELD MODIFICATIONS WITHOUT DELAY. AN APPROVED SPRINKLER SHOP DRAWING DOES NOT PRECLUDE REROUTING IF SO ORDERED BY THE ARCHITECT/ENGINEER.

HVAC GENERAL NOTES:

- DO NOT RUN PLUMBING, PIPING, AND PLUMBING ABOVE ELECTRICAL PANELS OR IN CODE REQUIRED CLEARANCE SPACES. COORDINATE ALL ROUTING WORK WITH ALL OTHER TRADES.
- DO NOT RUN DUCTWORK, PIPING, AND PLUMBING ABOVE OR THROUGH INFORMATION TECHNOLOGY AND DATA CLOSETS, IDF, AND MDF ROOMS. COORDINATE ALL ROUTING WITH ALL OTHER TRADES.
- DRAWINGS, PLANS, SCHEMATICS, AND DIAGRAMS INDICATE THE GENERAL LOCATIONS AND THE ARRANGEMENT OF SYSTEMS. WHEREVER PRACTICAL, INSTALL SYSTEMS AS INDICATED. PROVIDE OFFSETS AND ELEVATION CHANGES TO DUCTWORK, PIPING, AND PLUMBING AS REQUIRED TO COMPLETE THE LAYOUT AND COORDINATION PROCESS AS WELL AS MEET ALL REQUIREMENTS OF THE CONTRACT DOCUMENTS.
- SEE ARCHITECTURAL REFLECTED CEILING PLANS FOR DIFFUSER, REGISTER, GRILLE, AND CEILING MOUNTED DEVICE LOCATIONS.
- CONTRACTOR SHALL COORDINATE LOCATION OF DUCTWORK IN CEILING SPACE WITH ALL TRADES PRIOR TO FABRICATION AND INSTALLATION OF DUCTWORK.
- FOR GENERAL DUCTWORK CONSTRUCTION, SEE DUCT FITTING DETAILS.
- DUCTWORK AND EQUIPMENT SHOWN WITH THIN LINES INDICATES EXISTING TO REMAIN. DUCTWORK AND EQUIPMENT SHOWN WITH BOLD LINES INDICATES NEW.
- FURNISH AND INSTALL SHUT-OFF VALVES FOR WATER SUPPLY AT ALL EQUIPMENT ITEMS.
- PROVIDE VOLUME DAMPER IN ALL BRANCH TAKEOFFS CONNECTING TO DIFFUSERS, REGISTERS, OR GRILLES AND IN LOCATIONS INDICATED.
- PROVIDE CLEARANCES TO ALL EQUIPMENT AS REQUIRED BY MANUFACTURERS' INSTALLATION AND OPERATION REQUIREMENTS AND/OR BY CODE.
- INSTALL ALL DUCT AND PIPING IN MECHANICAL ROOMS AS HIGH AS POSSIBLE. PROVIDE 7'-0" MINIMUM HIGH ACCESS PATHWAYS TO ALL EQUIPMENT.
- CAP ENDS OF ALL INSTALLED DUCTWORK DURING CONSTRUCTION TO MINIMIZE DIRT, DEBRIS, AND FOREIGN OBJECTS FROM ENTERING THE DUCT SYSTEM.
- COORDINATE SCHEDULE OF SHUTDOWN FOR EXISTING HVAC SYSTEMS, FOR INSTALLATION OF NEW HVAC SYSTEMS, WITH THE OWNER'S REPRESENTATIVE PRIOR TO SHUTDOWN.
- ALL INSULATION SHALL MEET THE ENERGY CODE'S INSTALLED R VALUE REQUIREMENTS.

PLUMBING GENERAL NOTES:

- DO NOT RUN PLUMBING, PIPING, AND DUCTWORK ABOVE ELECTRICAL PANELS OR IN CODE REQUIRED CLEARANCE SPACES. COORDINATE ALL ROUTING WORK WITH ALL OTHER TRADES.
- DO NOT RUN PLUMBING, PIPING, AND DUCTWORK ABOVE OR THROUGH INFORMATION TECHNOLOGY AND DATA CLOSETS, IDF, AND MDF ROOMS. COORDINATE ALL ROUTING WITH ALL OTHER TRADES.
- DRAWINGS, PLANS, SCHEMATICS, AND DIAGRAMS INDICATE THE GENERAL LOCATIONS AND THE ARRANGEMENT OF SYSTEMS. WHEREVER PRACTICAL, INSTALL SYSTEMS AS INDICATED. PROVIDE OFFSETS AND ELEVATION CHANGES TO PLUMBING, PIPING, AND DUCTWORK AS REQUIRED TO COMPLETE THE LAYOUT AND COORDINATION PROCESS AS WELL AS MEET ALL REQUIREMENTS OF THE CONTRACT DOCUMENTS.
- PROVIDE SEWER CLEANOUTS AS REQUIRED BY CODE AND AS INDICATED. COORDINATE LOCATION IN FIELD.
- DO NOT ROUTE PLUMBING BRANCHES OR MAINS WITHIN SPACE REQUIRED TO SERVICE ALL HVAC EQUIPMENT ABOVE CEILING.
- PIPING AND FIXTURES SHOWN WITH THIN LINES INDICATES EXISTING TO REMAIN. PIPING AND FIXTURES SHOWN WITH BOLD LINES INDICATES NEW.
- COORDINATE SHUT DOWN OF EXISTING WATER SERVICE WITH OWNERS REPRESENTATIVE.
- FURNISH AND INSTALL SHUT-OFF VALVES FOR WATER SUPPLY AT ALL EQUIPMENT ITEMS.
- PVC PIPING SHALL NOT BE INSTALLED IN RETURN AIR PLENUMS.



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lincoln, nebraska 68508
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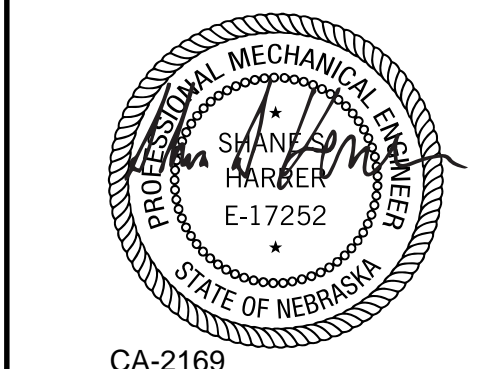
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Mechanical/Electrical Engineers
Alvine Engineers
1201 Cass Street
Omaha, NE 68102
402-346-7007

Structural Engineer

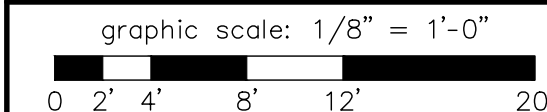
Civil Engineer



CA-2169

07/08/2024

Agency Approval



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Omaha: 1201 Cass Street, Omaha, NE 68102, Phone: (402) 346-7007
Lincoln: 1220 Lincoln Mall, Suite 200, Lincoln, NE 68508, Phone: (402) 477-6161
Oklahoma City: 1001 W. Wilshire Blvd., Suite 102, Oklahoma City, OK 73116, Phone: (405) 936-3480
Des Moines: 400 East Court Avenue, Suite 130, Des Moines, IA 50309, Phone: (515) 243-0569

Frankel Zacharia
Sixth Floor Remodel
11404 West Dodge Road
Omaha, NE 68154

Mechanical Symbols and Abbreviations

Designed by: _____
Drawn by: _____
Reviewed: _____
Proj: 4955

Sheet No.

M000

File Path

FLAG NOTES

- 1 REMOVE EXISTING THERMOSTAT. STORE TO BE REINSTALLED. SEE M101 FOR NEW LOCATION.
- 2 REMOVE AND CAP EXISTING PLUMBING IN PLENUM.
- 3 CAP EXISTING SANITARY AT WALL.
- 4 DEMO EXISTING SINK AND ASSOCIATED PIPING. SEE SHEET M101 FOR NEW ROUTING.


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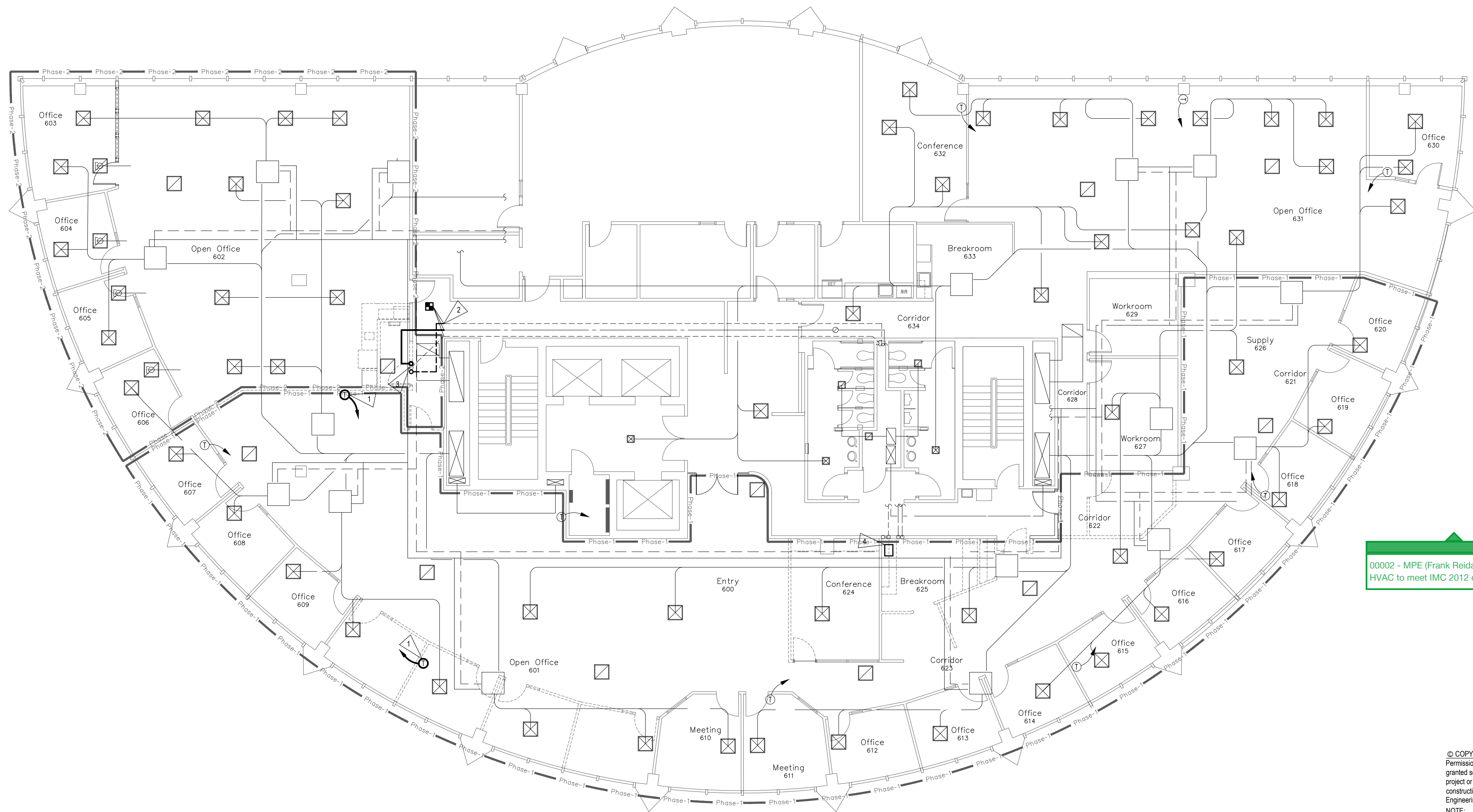


07/08/2024

Agency Approval

00002 - MPE (Frank Reida)
 HVAC to meet IMC 2012 or ASHRAE 62.1

graphic scale: 1/8" = 1'-0"
 0 2' 4' 8' 12' 20'



00002 - MPE (Frank Reida)
 HVAC to meet IMC 2012 or ASHRAE 62.1

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 Lincoln: 1220 Lincoln Mall, Suite 200, Lincoln, NE 68508, Phone: (402) 471-6161
 Oklahoma City: 1001 W. Walnut Blvd., Suite 102, Oklahoma City, OK 73116, Phone: (405) 936-3489
 Des Moines: 405 East Court Avenue, Suite 130, Des Moines, IA 50309, Phone: (515) 243-0569

MD1 Floor Plan - Mechanical Demolition
 MD101 1/8" = 1'-0"

Frankel Zacharia
Sixth Floor Remodel
 11404 West Dodge Road
 Omaha, NE 68154

Mechanical Demolition Plan

Designed: _____ Sheet No.
 Drawn by: _____
 Reviewed: _____
 Proj: 4955

MD101

DIFFUSER REGISTER AND GRILLE SCHEDULE

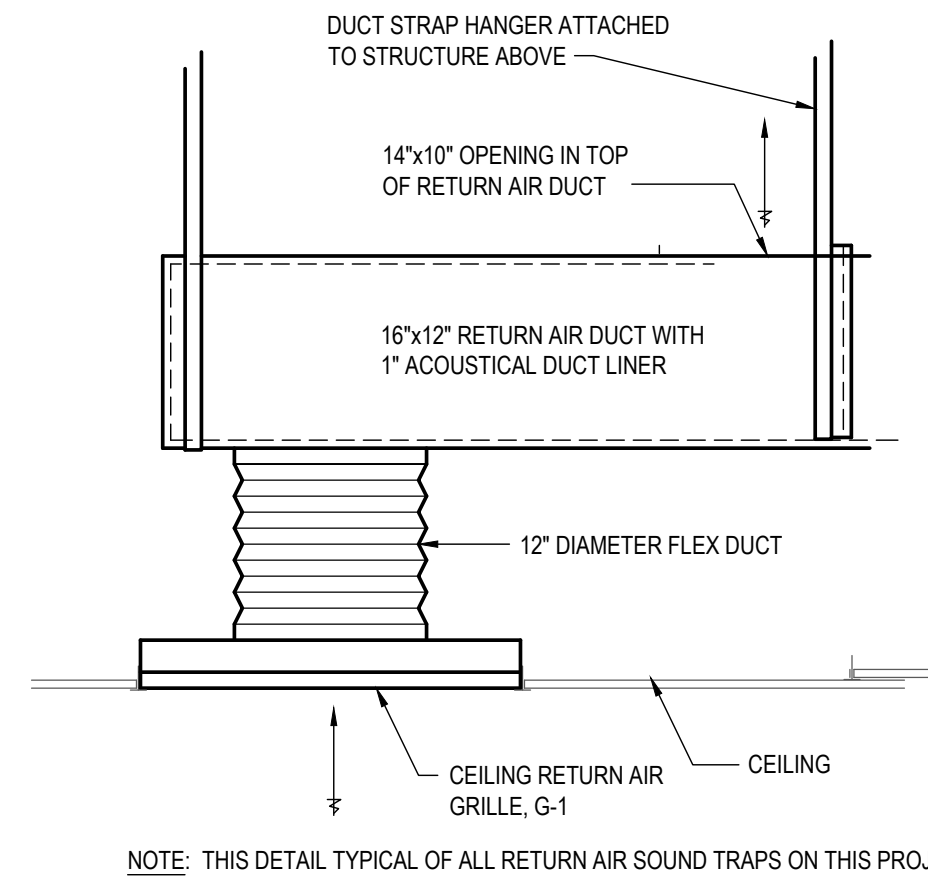
| MARK | DESCRIPTION | DEFLECTION | MAX S. P. (IN. W.C.) | MAX NC LEVEL | CONSTRUCTION MATERIAL | FINISH | FACE SIZE (IN) | MANUFACTURER | MODEL | REMARKS |
|------|-------------|------------|----------------------|--------------|-----------------------|--------|----------------|--------------|-------|---------|
| G-1 | PERFORATED | - | 0.1 | 30 | STEEL | WHITE | 24x24 | KRUEGER | S80P | 1 |

REMARKS:
1. CONTRACTOR SHALL VERIFY CEILING CONSTRUCTION PRIOR TO FURNISHING MATERIAL.

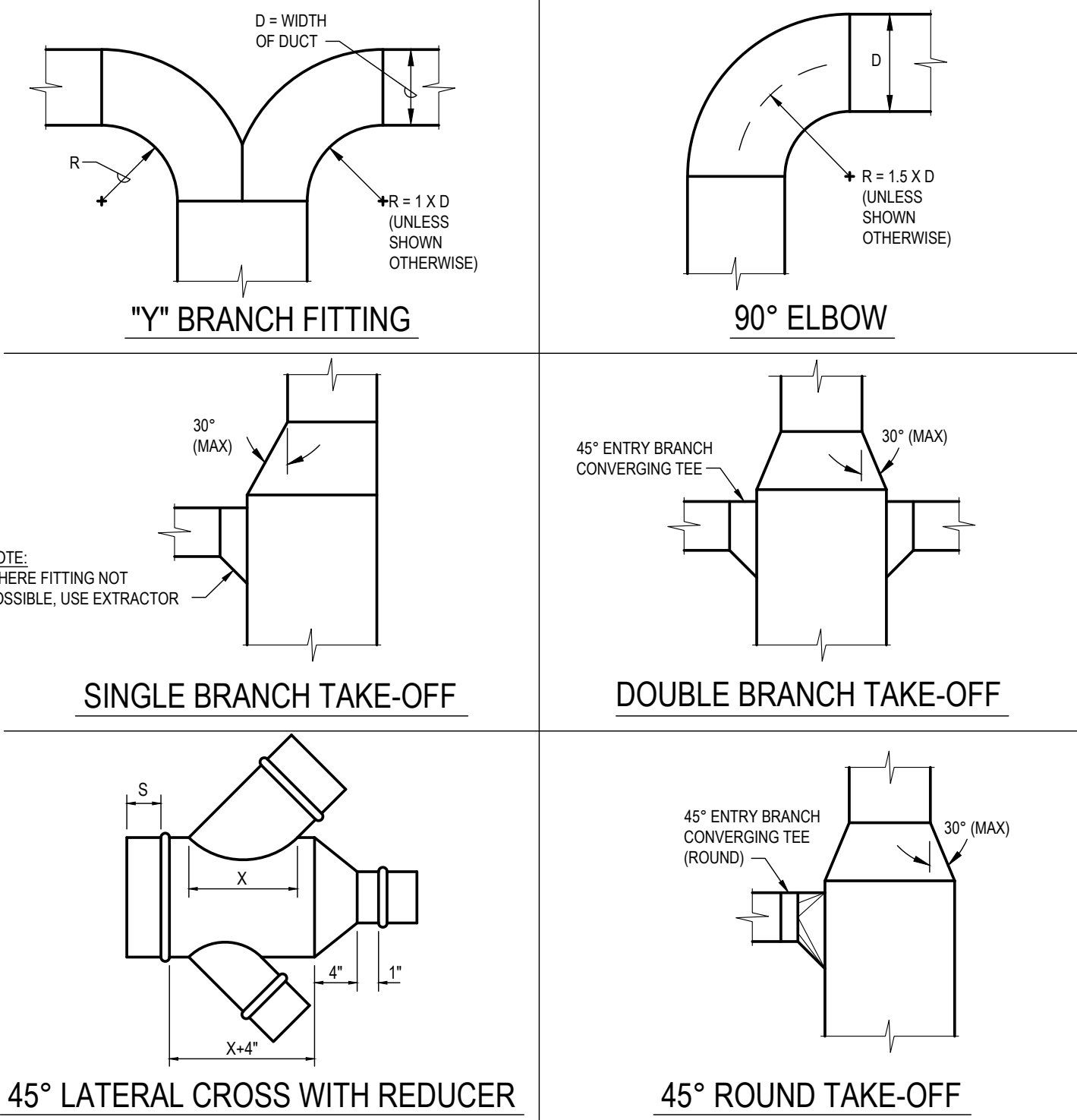
PLUMBING EQUIPMENT AND CONNECTION SCHEDULE
SEE SPECIFICATIONS FOR APPROVED MANUFACTURERS

| MARK | DESCRIPTION | BASIS OF DESIGN | CONNECTION DETAILS | | | |
|------|--|--|--------------------|--------|--------|--------|
| | | | WASTE | VENT | CW | HW |
| OB-1 | OUTLET BOX WITH HOSE CONNECTION AND THE FOLLOWING: BOX AND FACEPLATE: PLASTIC. SUPPLY FITTING: NPS 1/2" GATE, GLOBE, OR BALL VALVE AND NPS 1/2" COPPER WATER TUBING. | SIoux CHIEF OX BOX | - | - | 1/2" | - |
| S-1 | SINK: SINGLE BOWL, SELF-RIMMING, COUNTER MOUNTED, 20 GAUGE TYPE 302 (18-8) STAINLESS STEEL WITH FAUCET LEDGE, SOUND DEADENING UNDERCOATING, PUNCHED TO MATCH FAUCET, DRAIN: CRUMB CUP STRAINER, NOMINAL SIZE: 25" x 22" x 8" DEEP. BOWL SIZE: 21" x 15" x 8" | FIXTURE: AMERICAN STANDARD "COLONY" 25X22 SINGLE BOWL STAINLESS STEEL KITCHEN SINK | 1 1/2" | 1 1/2" | 1 1/2" | 1 1/2" |

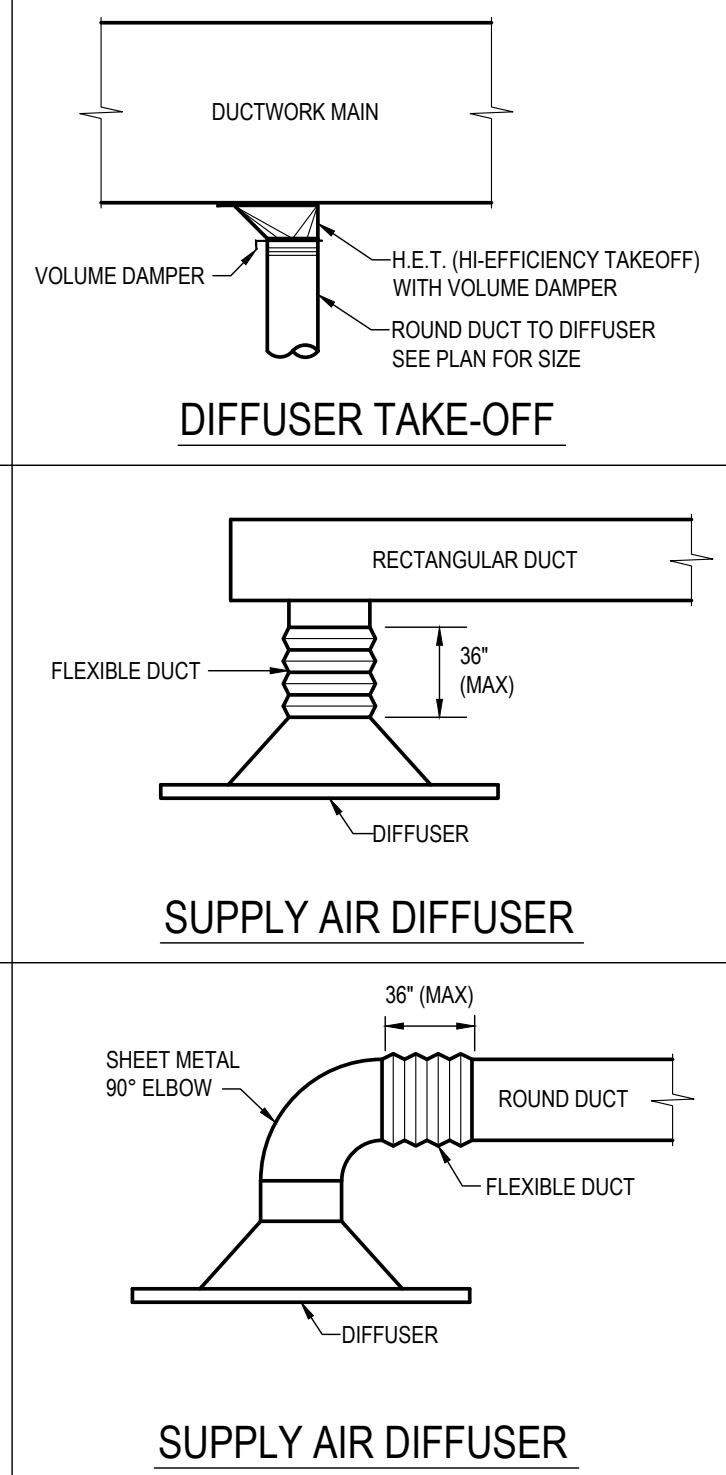
REMARKS:
1. FAUCET PROVIDED BY OWNER. CONTRACTOR TO VERIFY BOWL COMPATIBILITY WITH FAUCET.



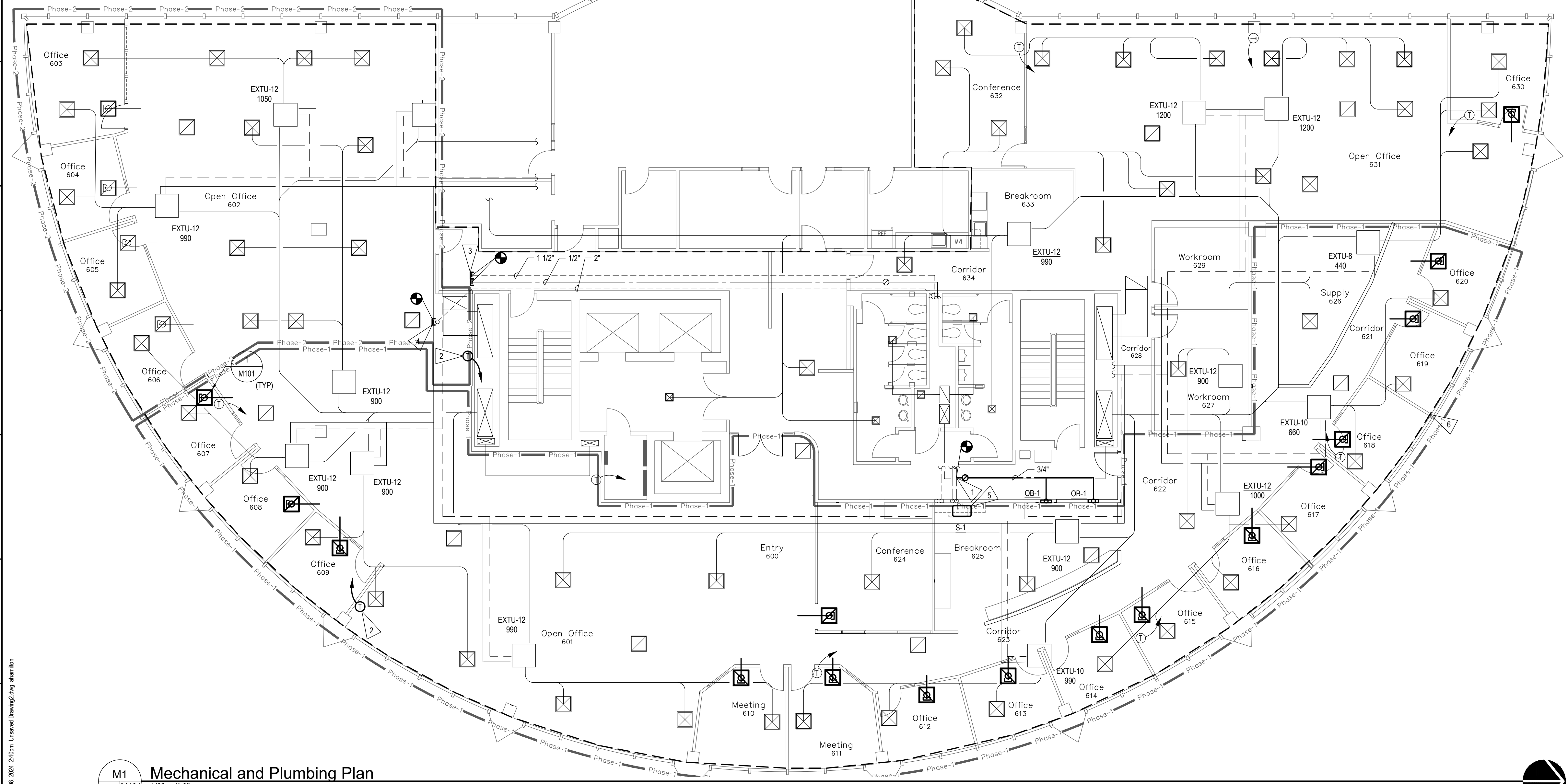
1 Return Air Sound Trap Detail
M101 No Scale



DUCT FITTING DETAILS
NO SCALE



DIFFUSER TAKE-OFF
NO SCALE



- FLAG NOTES**
- CONNECT NEW PLUMBING PIPING TO EXISTING PIPING IN PLENUM. CONTRACTOR TO FIELD VERIFY EXISTING PLUMBING SIZING AND LOCATION.
 - RELOCATED THERMOSTAT.
 - CAP EXISTING PLUMBING PIPING.
 - CAP SANITARY IN WALL.
 - CONNECT NEW S-1 TO EXISTING PIPING CONNECTIONS IN WALL. CLEAN OUT TO REMAIN.
 - REVISE SPRINKLER PIPING AS REQUIRED TO ACCOMMODATE NEW FLOOR PLAN AND CEILING LAYOUT.

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NOTE: DO NOT SCALE DRAWINGS. VERIFY ALL DIMENSIONS and clearances from ARCHITECTURAL, STRUCTURAL, shop and other appropriate drawing or at site. lay out and coordinate all work prior to installation to provide clearances required for operation, maintenance, and codes and verify non-interference with other work. DO NOT FABRICATE PRIOR TO VERIFICATION OF CLEARANCE FOR ALL TRADES. READ SPECIFICATIONS.



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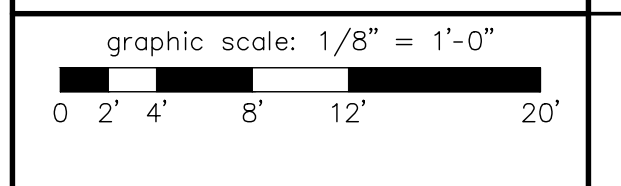
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Alvine Engineers
1201 Cass Street
Omaha, NE 68102
402.346.7007

Structural Engineer
Civil Engineer

CA-2169
07/08/2024

Agency Approval



Frankel Zacharia
Sixth Floor Remodel
11404 West Dodge Road
Omaha, NE 68154

Mechanical and Plumbing Plan

| | |
|--------------|-------------|
| Designed by: | Sheet No. |
| Drawn by: | M101 |
| Reviewed by: | |
| Proj: 4955 | |

M1 Mechanical and Plumbing Plan
M101 1/8" = 1'-0"

SECTION 21 0400 - COMMON REQUIREMENTS FOR FIRE SUPPRESSION
PART 1 - GENERAL
1.01 SUMMARY
A. Section describes the general requirements and shall apply to all phases of the work specified, shown on the drawings, or required to provide complete installation of all systems for this project.

1.02 SCOPE
A. The area of renovation shall have fire protection sprinkler system installed to meet the requirements of the NFPA codes, State Fire Marshal's office, Owner's approved insurance agency and all Authorities Having Jurisdiction.
1.03 WARRANTIES
A. Warrent all materials, workmanship and equipment against defects for a period of one year after the date of substantial completion.

1.04 QUESTIONS OF INTERPRETATION DURING BIDDING PHASE
A. If a question arises during the bidding process regarding the meaning of any portion of the contract documents, the prospective bidder shall submit the questions to the Architect/Engineer for clarification.

1.05 CONTRACT DOCUMENT DISCREPANCIES
A. If any ambiguities should appear in the contract documents, request clarification from the Architect/Engineer before proceeding with the work.
B. If the Contractor fails to make such request, no excuse will thereafter be entertained for failure to carry out the work in a manner satisfactory to the Architect/Engineer.

1.06 CODES
A. The work shall be performed by persons skilled in the trade involved and shall be done in a manner consistent with normal industry standards.
B. All work shall conform to all applicable sections of and currently adopted editions of the following codes, standards, and specifications:

1.07 PERMITS
A. The Contractor shall familiarize themselves with all requirements regarding all permits, fees, etc., and shall comply with them.
B. All permits, licenses, inspections and arrangements required for the work shall be obtained by the Contractor at his expense.

1.08 CODE COMPLIANCE
A. Work shall be in accordance with all applicable codes. Where the codes and drawings do not agree, the code shall take precedence, however, code shall take precedence over what is shown only when it is more stringent than that indicated. Items that are allowed by codes which are less stringent than that shown on the drawings shall not be substituted.

1.09 MATERIALS AND EQUIPMENT MANUFACTURERS
A. Options in selecting materials and equipment are limited by requirements of the contract documents and governing regulations. They are not controlled by industry traditions or procedures experienced on previous construction projects.

PART 2 - PRODUCTS
2.01 PERFORMANCE, CAPACITIES AND CHARACTERISTICS
A. See Drawings for Equipment Schedules and/or notes with Equipment Performance Requirements when capacities and characteristics are not indicated in the specifications.
2.02 MATERIALS
A. Unless otherwise specified, all materials and equipment shall be new, unused and undamaged. Materials and equipment shall be the current and standard designs of manufacturers regularly engaged in their production.

2.03 QUANTITY OF SPECIFIED ITEMS REQUIRED
A. Whenever the specification or article, device or piece of equipment is referred to in the singular number, such reference shall apply to as many such articles as are shown on the drawings or required to complete the installation.
2.04 PIPE AND PIPE FITTINGS
A. Refer to individual piping Sections for pipe and fitting materials and joining methods.

2.05 ACCESS DOORS
A. Manufacturers: J. L. Industries, Kary Associates, Inc., Larsons Mfg. Co., Milcor, Inc., Miller Limited Partnership, Hydrex, Inc.
B. Prime coated 1/4 gauge steel, flush, with screwdriver operated cam lock, frame to accommodate construction type, size as indicated.
2.06 ELECTRICAL WIRE
A. All wiring materials covered by this section shall be in accordance with the latest revision of the National Electrical Code and applicable local codes and shall carry the UL label where applicable.

2.07 COOPERATION WITH OTHER CONTRACTORS
A. Perform the work in conformity with the construction called for by other trades and afford other Contractors reasonable opportunity for the execution of their work.
B. Properly connect and coordinate the work with the work of other Contractors at such time and in such a manner as not to delay or interfere with their work.
C. Examine the contract documents for the General, Mechanical, and Electrical work and the work of other trades.

2.08 COORDINATION OF WORK
A. Plan all work so it proceeds with a minimum of interference with other trades.
B. It shall also be the responsibility of the Contractor to inform the General Contractor of all openings required in the building construction for the installation of the mechanical work.
2.09 LAYOUT OF WORK
A. Carefully lay out all work in advance of installation using data and measurements from the site, the appropriate architectural and structural drawings, and shop drawings.

2.10 SUBMITTALS
A. Shop Drawings, Product Data and Samples:
1. Unless otherwise noted, submit one copy electronically of shop drawings and product data for review. Review comments will be returned electronically. A hard copy of the electronic submittal will be returned if required.

2.11 DELIVERY, STORAGE, AND HANDLING
A. Deliver pipes and tubes with factory-applied end caps. Maintain end caps through shipping, storage, and handling to prevent pipe end damage and to prevent entrance of dirt, debris, and moisture.

3.11 PIPING SYSTEMS - COMMON REQUIREMENTS
A. General. Install as described below, unless individual Sections specify otherwise. Individual Sections specify unique installation requirements.
B. General Locations and Arrangements: Drawing plans, schematics, and diagrams indicate general, diagrammatic location and arrangement of systems.
1. Sanitary sewer.
2. Domestic water.
3. Do not run above electrical panels or in code required clearance spaces.

3.12 PIPING JOINT CONSTRUCTION
1. Ream ends of pipes and tubes and remove burrs. Bevel plain ends of steel pipe.
2. Remove scale, slag, dirt, and debris from inside and outside of pipe and fittings before assembly.
3. Threaded joints: Thread pipe with tapered pipe threads according to ASME B1.20.1. Cut threads full and clean using sharp die. Ream threaded pipe ends to remove burrs and restore full ID. Join pipe fittings and valves as follows:
a. Note internal length of threads in fittings or valve ends, and proximity of internal seal or wall, to determine how far pipe should be threaded into fitting.

3.13 COORDINATION OF WORK
A. Plan all work so it proceeds with a minimum of interference with other trades.
B. It shall also be the responsibility of the Contractor to inform the General Contractor of all openings required in the building construction for the installation of the mechanical work.
2.01 GENERAL
2.01 SECTION INCLUDES
A. Wet-pipe sprinkler system.
2.02 REFERENCE STANDARDS
A. ICC-ES AC01 - Acceptance Criteria for Expansion Anchors in Masonry Elements; 2009.

2.03 WATER PIPING, ABOVE GRADE
A. Copper Tube: ASTM B88 (ASTM B88M), Type I (B), Drawn (B).
B. Fittings: ASTM B16, cast copper alloy, or ASME B16.22, wrought copper and bronze.
2.04 FLANGES, UNIONS, AND COUPLINGS
A. Unions for Pipe Sizes 3 inches (80 mm) and Under:
1. Ferruss pipe: Class 150 malleable iron threaded unions.
2. Copper tube and pipe: Class 150 bronze unions with soldered joints.

2.05 PIPE HANGERS AND SUPPORTS
A. Provide hangers and supports that comply with a minimum of the following:
1. If type of hanger or support for a particular system is not indicated, select appropriate type using MSS SP-58 recommendations.
2.06 BALL VALVES
A. Manufacturers:
1. Apollo Valves: www.apollovalves.com.
2. Conbraco Controls: www.conbraco.com.
3. Hammond Valve Corporation: www.hammondvalve.com.

2.07 SPRINKLERS
A. Suspended Ceiling Type: Coalesced pendant type with matching push on cover plate.
1. Response Type: Quick.
2. Coverage Type: Standard.
3. Person access doors shall be 18 inches by 18 inches minimum.

2.08 SCHEDULES
A. System Hazard Areas: Offices: Light Hazard.

SECTION 22 1005 - PLUMBING PIPING
PART 1 - GENERAL
1.01 SECTION INCLUDES
A. Pipe, pipe fittings, valves, and connections for piping systems.
1. Sanitary sewer.
2. Domestic water.
3. Do not run above electrical panels or in code required clearance spaces.

1.02 QUALITY ASSURANCE
A. Work shall be in accordance with all applicable codes. Where the codes and drawings do not agree, the code shall take precedence, however, code shall take precedence over what is shown only when it is more stringent than that indicated. Items that are allowed by codes which are less stringent than that shown on the drawings shall not be substituted.
1.03 REFERENCE STANDARDS
A. ASME B16.18 - Cast Copper Alloy Solder Joint Pressure Fittings; The American Society of Mechanical Engineers; 2001 (R2005) (ANSI B16.18).

1.04 SUBMITTALS
A. Product Data: Provide data on pipe materials, pipe fittings, valves, and accessories. Provide manufacturers catalog information. Indicate valve data and ratings.
1.05 QUALITY ASSURANCE
A. Perform work in accordance with applicable codes.
B. Perform work in accordance with local or state standards.
C. Valves: Manufacturer's name and model number stamped on cast iron and steel valves.
D. Identify pipe with marking including size, ASTM material classification, ASTM specification, potable water certification, water pressure rating.

1.06 REGULATORY REQUIREMENTS
A. Perform Work in accordance with state or municipality plumbing code.
1.07 DELIVERY, STORAGE, AND HANDLING
A. Accept valves on site in shipping containers with labeling in place. Inspect for damage.
B. Check for protected plumbing fixtures to verify that they are complete and that testing, cleaning, adjusting, and commissioning specified in individual Sections have been performed.
1.08 CLEANING
A. Clean plumbing fixtures and equipment.
1.09 PROTECTION
A. Protect installed products from damage due to subsequent construction operations.
B. Do not permit use of fixtures by construction personnel.
C. Repair or replace damaged products before Date of Substantial Completion.

2.01 SANITARY SEWER AND VENT PIPING, ABOVE GRADE
A. Cast Iron Pipe: CISPI 301, hubless, service weight.
1. Fittings: Cast iron.
2. Joints: CISPI 310, ASTM C 564 neoprene gaskets and stainless steel clamp-and-shield assemblies.
3. Shielded Couplings: ASTM C 1277 assembly of metal shield or housing, corrosion-resistant fasteners, and rubber sleeve with integral center pipe stop.
B. Flexible, Fittings - Sanitary Waste and Vent
A. Flexible, Fittings - Sanitary Waste and Vent
1. Sleeve Materials:
a. For Cast-Iron Soil Pipes: ASTM C 564, rubber.
b. For Cast-Iron Pipes: ASTM C 564, rubber.
c. For Cast-Iron Pipes: ASTM D 9926, PVC or other material compatible with pipe materials being joined.

2.02 SPECIAL FITTINGS - SANITARY WASTE AND VENT
A. Flexible, Fittings - Sanitary Waste and Vent
1. Sleeve Materials:
a. For Cast-Iron Soil Pipes: ASTM C 564, rubber.
b. For Cast-Iron Pipes: ASTM C 564, rubber.
c. For Cast-Iron Pipes: ASTM D 9926, PVC or other material compatible with pipe materials being joined.
2.03 WATER PIPING, ABOVE GRADE
A. Copper Tube: ASTM B88 (ASTM B88M), Type I (B), Drawn (B).
B. Fittings: ASTM B16, cast copper alloy, or ASME B16.22, wrought copper and bronze.
2.04 FLANGES, UNIONS, AND COUPLINGS
A. Unions for Pipe Sizes 3 inches (80 mm) and Under:
1. Ferruss pipe: Class 150 malleable iron threaded unions.
2. Copper tube and pipe: Class 150 bronze unions with soldered joints.

2.05 PIPE HANGERS AND SUPPORTS
A. Provide hangers and supports that comply with a minimum of the following:
1. If type of hanger or support for a particular system is not indicated, select appropriate type using MSS SP-58 recommendations.
2.06 BALL VALVES
A. Manufacturers:
1. Apollo Valves: www.apollovalves.com.
2. Conbraco Controls: www.conbraco.com.
3. Hammond Valve Corporation: www.hammondvalve.com.

SECTION 22 4000 - PLUMBING FIXTURES
PART 1 - GENERAL
1.01 SECTION INCLUDES
A. Conventional plumbing fixtures and related components.
1.02 REFERENCE STANDARDS
A. ASME A112.18.1 - Plumbing Supply Fittings; The American Society of Mechanical Engineers; 2005.
1.03 SUBMITTALS
A. Product Data: Provide catalog illustrations of fixtures, sizes, rough-in dimensions, utility sizes, trim, and finishes.
B. Manufacturer's Instructions: Indicate installation methods and procedures.
C. Installation Date: Include fixture trim exploded view and replacement parts lists.
D. Warranty: Submit manufacturer warranty and ensure forms have been completed in Owner's name and registered with manufacturer.
1.04 QUALITY ASSURANCE
A. Manufacturer Qualifications: Company specializing in manufacturing the type of products specified in this section, with minimum three years of commercial experience.
1.05 REGULATORY REQUIREMENTS
A. Comply with requirements in ICC A111.1, "Accessible and Usable Buildings and Facilities"; Public Law 90-480, "Architectural Barriers Act"; and Public Law 101-336, "American with Disabilities Act" for fixtures for people with disabilities.
B. NSF Standard: Comply with NSF 61, "Drinking Water System Components-Health Effects" for fixture materials that will be in contact with potable water.
C. NSF Standard: NSF 61, "Drinking Water System Components-Health Effects" for fixture materials that will be in contact with potable water.
D. NSF Standard: NSF 61, "Drinking Water System Components-Health Effects" for fixture materials that will be in contact with potable water.

1.06 DELIVERY, STORAGE, AND HANDLING
A. Accept fixtures on site in factory packaging. Inspect for damage.
B. Protect installed fixtures from damage by securing areas and by leaving factory packaging in place to protect fixtures and prevent use.
PART 2 - PRODUCTS
2.01 MANUFACTURERS
A. Stainless Steel Sinks: Elkay, Joyt, Kohler, Moen - Commercial.
B. Faucets: Elkay, Kohler, Moen - Commercial, T&S Brass.
C. Plumbing Fixtures: American Standard, Kohler.
D. Flush Valves: Sloan.
2.02 PERFORMANCE, CAPACITIES AND CHARACTERISTICS
A. See Drawings for Equipment Schedules with Equipment Performance Requirements when capacities and characteristics are not indicated in the specifications.
PART 3 - EXECUTION
3.01 EXAMINATION
A. Confirm that millwork is constructed with adequate provision for the installation of counter top lavatories and sinks.
3.02 PREPARATION
A. Rough-in fixture piping connections in accordance with minimum sizes indicated in fixture schedule for particular fixtures.
3.03 INSTALLATION
A. Install each fixture with trap, easily removable for servicing and cleaning.
B. Provide chrome plated rigid or flexible supplies to fixtures with screwdriver stops (as indicated), reducers, and elbows.
C. Install components level and plumb, according to manufacturer's rough-in requirements.
D. Assemble plumbing fixtures, trim, fittings, and other components according to manufacturer's written instructions.
E. Install counter-mounting fixtures in and attached to casework.
F. Install water supply and vent piping with stop and vent supply to each fixture to be connected to water distribution piping. Attach supplies to supports or subrises within pipe spaces behind fixtures. Install stops in locations where they can be easily reached for operation.
G. Install trap and tubular waste piping on drain outlet of each fixture to be directly connected to sanitary drainage system.
H. Install water-supply flow-control fittings with specified flow rates in future schedule at stop valves.
I. Install faucet flow-control fittings with specified flow rates and patterns in faucet spouts if faucets are not available with required rates and patterns. Include adapters if required.
3.04 CONNECTIONS
A. Piping installation requirements are specified in other sections. Drawings indicate general arrangement of piping, fittings, and specialties.
B. Connect fixtures with water supplies, stops, and risers, and with traps, soil, waste, and vent piping. Use size fittings required to match fixtures.
3.05 FIELD QUALITY CONTROL
A. Verify that installed plumbing fixtures are categories and types specified for locations where installed.
B. Check for protected plumbing fixtures to verify that they are complete and that testing, cleaning, adjusting, and commissioning specified in individual Sections have been performed.
3.06 ADJUSTING
A. Adjust stops or valves for intended water flow rate to fixtures without splashing, noise, or overflow.
3.07 CLEANING
A. Clean plumbing fixtures and equipment.
3.08 PROTECTION
A. Protect installed products from damage due to subsequent construction operations.
B. Do not permit use of fixtures by construction personnel.
C. Repair or replace damaged products before Date of Substantial Completion.

SECTION 22 0719 - PLUMBING PIPING INSULATION
PART 1 - GENERAL
1.01 SECTION INCLUDES
A. Piping Insulation
PART 2 - PRODUCTS
2.01 REFERENCE STANDARDS
A. Surface Burning Characteristics: Flame spread/Smoke developed index of 25/50, maximum, when tested in accordance with ASTM E 84, NFPA 265, or UL 723.
B. Products shall not contain asbestos, lead, mercury, or mercury compounds.
2.02 MINERAL FIBER
A. Manufacturers: Knurl Insulation, Johns Manville, Owens Corning, Certainteed Corporation.
B. Insulation: ASTM C547 and ASTM C795, rigid, molded, non-combustible.
1. "K" value: ASTM C177, 0.24 at 75 degrees F.
2. Maximum Service Temperature: 850 degrees F.
3. Maximum moisture absorption: 0.2 percent by volume.
C. Insulation: ASTM C547 and ASTM C795, semi-rigid, non-combustible, end grain adhered to jacket.
1. "K" value: ASTM C177, 0.24 at 75 degrees F.
2. Maximum service temperature: 650 degrees F.
3. Maximum moisture absorption: 0.2 percent by volume.
D. Vapor Barrier Jacket: White Kraft paper with glass fiber yarn, bonded to aluminum film, moisture vapor transmission when tested in accordance with ASTM E96/G96 of 1.02 perm-inches.
E. The Vap: 0.04 inch stainless steel with twisted ends on maximum 12 inch centers.
F. Vapor Barrier Lap Adhesive:
1. Manufacturers: Fosroc Model MS-2085-60, Childers Model CP-27, Marathon Industries.
2. Compatible with insulation.
3. Shall meet ASTM C916 Type III
G. Insulating Cement/Mastic: ASTM C195, hydraulic setting on mineral wool.
H. Fibrous Glass Fabric:
1. Manufacturers: Fosroc Model Mast a Fah, Childers Model Chil Gas #10.
2. Cloth: Unretread, 9 oz/sq yd weight.
3. Blanket: 1.0 lb/cu ft density.
4. Weave: 10 x 10.
H. Indoor Vapor Barrier Finish:
1. Manufacturers: Fosroc Model Vapor Fas 30-65, Childers Model CP-35, Marathon Industries.
2. Cloth: Unretread, 9 oz/sq yd weight
3. Vinyl emulsion type acrylic, compatible with insulation, white color.
4. Performance shall be 0.03 perms or less at 45 mils dry weight by ASTM E96.
H. Insulating Cement: ASTM C448/C448M.
PART 3 - EXECUTION
3.01 INSULATION AND JACKET SCHEDULE
A. INDOOR PIPING
1. Domestic Cold Water: All Pipe Sizes: Insulation shall be of the following:
a. Mineral Fiber Pipe Insulation, Type I: 1/2 inch thick.
2. Domestic Hot, Tempered, and Recirculated Hot Water: 2-inch and smaller:
a. Mineral Fiber Pipe Insulation, Type I: 1-inch thick.
END OF SECTION

SECTION 22 0593 - TESTING, ADJUSTING, AND BALANCING FOR HVAC
PART 1 - GENERAL
1.01 SECTION INCLUDES
A. Testing, adjustment, and balancing of air systems and components.
B. Measurement of final operating condition of HVAC systems.
1.02 SUBMITTALS
A. Final Report: Indicate deficiencies in systems that would prevent proper testing, adjusting, and balancing of systems and equipment to achieve specified performance.
1. Review TAB plan to reflect actual procedures and submit as part of final report.
2. Provide reports in soft cover, letter size, 3 ring binder manuals, complete with index page and indexing tabs, with cover identification at front and side. Include set of reduced drawings with air outlets and equipment identified to correspond with data sheets, and indicating thermostat locations.
3. Include actual instrument list, with manufacturer name, serial number, and date of calibration.
4. Form of Test Reports: Where the TAB standard being followed recommends a report format use that; otherwise, follow ASHRAE Std 111.
5. Units of Measure: Report data in IP (non-pound) units only.
6. Include the following on the title page of each report:
a. Name of Testing, Adjusting, and Balancing Agency.
b. Address of Testing, Adjusting, and Balancing Agency.
c. Telephone number of Testing, Adjusting, and Balancing Agency.
d. Project name.
e. Project location.
f. Project Architect.
g. Project Engineer.
h. Project Contractor.
i. Project address.
j. Report date.
k. Certification sheet signed and sealed by the certified testing and balancing engineer.
1.03 PROJECT CONDITIONS
A. Full Owner Occupancy: Owner will occupy the site and existing building during entire TAB period.
B. Cooperate with Owner during TAB operations to minimize conflicts with Owner's operations.
PART 2 - EXECUTION
2.01 EXAMINATION
A. Confirm that millwork is constructed with adequate provision for the installation of counter top lavatories and sinks.
3.02 PREPARATION
A. Rough-in fixture piping connections in accordance with minimum sizes indicated in fixture schedule for particular fixtures.
3.03 INSTALLATION
A. Install each fixture with trap, easily removable for servicing and cleaning.
B. Provide chrome plated rigid or flexible supplies to fixtures with screwdriver stops (as indicated), reducers, and elbows.
C. Install components level and plumb, according to manufacturer's rough-in requirements.
D. Assemble plumbing fixtures, trim, fittings, and other components according to manufacturer's written instructions.
E. Install counter-mounting fixtures in and attached to casework.
F. Install water supply and vent piping with stop and vent supply to each fixture to be connected to water distribution piping. Attach supplies to supports or subrises within pipe spaces behind fixtures. Install stops in locations where they can be easily reached for operation.
G. Install trap and tubular waste piping on drain outlet of each fixture to be directly connected to sanitary drainage system.
H. Install water-supply flow-control fittings with specified flow rates in future schedule at stop valves.
I. Install faucet flow-control fittings with specified flow rates and patterns in faucet spouts if faucets are not available with required rates and patterns. Include adapters if required.
3.04 CONNECTIONS
A. Piping installation requirements are specified in other sections. Drawings indicate general arrangement of piping, fittings, and specialties.
B. Connect fixtures with water supplies, stops, and risers, and with traps, soil, waste, and vent piping. Use size fittings required to match fixtures.
3.05 FIELD QUALITY CONTROL
A. Verify that installed plumbing fixtures are categories and types specified for locations where installed.
B. Check for protected plumbing fixtures to verify that they are complete and that testing, cleaning, adjusting, and commissioning specified in individual Sections have been performed.
3.06 ADJUSTING
A. Adjust stops or valves for intended water flow rate to fixtures without splashing, noise, or overflow.
3.07 CLEANING
A. Clean plumbing fixtures and equipment.
3.08 PROTECTION
A. Protect installed products from damage due to subsequent construction operations.
B. Do not permit use of fixtures by construction personnel.
C. Repair or replace damaged products before Date of Substantial Completion.

SECTION 22 0719 - PLUMBING PIPING INSULATION
PART 1 - GENERAL
1.01 SECTION INCLUDES
A. Piping Insulation
PART 2 - PRODUCTS
2.01 REFERENCE STANDARDS
A. Surface Burning Characteristics: Flame spread/Smoke developed index of 25/50, maximum, when tested in accordance with ASTM E 84, NFPA 265, or UL 723.
B. Products shall not contain asbestos, lead, mercury, or mercury compounds.
2.02 MINERAL FIBER
A. Manufacturers: Knurl Insulation, Johns Manville, Owens Corning, Certainteed Corporation.
B. Insulation: ASTM C547 and ASTM C795, rigid, molded, non-combustible.
1. "K" value: ASTM C177, 0.24 at 75 degrees F.
2. Maximum Service Temperature: 850 degrees F.
3. Maximum moisture absorption: 0.2 percent by volume.
C. Insulation: ASTM C547 and ASTM C795, semi-rigid, non-combustible, end grain adhered to jacket.
1. "K" value: ASTM C177, 0.24 at 75 degrees F.
2. Maximum service temperature: 650 degrees F.
3. Maximum moisture absorption: 0.2 percent by volume.
D. Vapor Barrier Jacket: White Kraft paper with glass fiber yarn, bonded to aluminum film, moisture vapor transmission when tested in accordance with ASTM E96/G96 of 1.02 perm-inches.
E. The Vap: 0.04 inch stainless steel with twisted ends on maximum 12 inch centers.
F. Vapor Barrier Lap Adhesive:
1. Manufacturers: Fosroc Model MS-2085-60, Childers Model CP-27, Marathon Industries.
2. Compatible with insulation.
3. Shall meet ASTM C916 Type III
G. Insulating Cement/Mastic: ASTM C195, hydraulic setting on mineral wool.
H. Fibrous Glass Fabric:
1. Manufacturers: Fosroc Model Mast a Fah, Childers Model Chil Gas #10.
2. Cloth: Unretread, 9 oz/sq yd weight.
3. Blanket: 1.0 lb/cu ft density.
4. Weave: 10 x 10.
H. Indoor Vapor Barrier Finish:
1. Manufacturers: Fosroc Model Vapor Fas 30-65, Childers Model CP-35, Marathon Industries.
2. Cloth: Unretread, 9 oz/sq yd weight
3. Vinyl emulsion type acrylic, compatible with insulation, white color.
4. Performance shall be 0.03 perms or less at 45 mils dry weight by ASTM E96.
H. Insulating Cement: ASTM C448/C448M.
PART 3 - EXECUTION
3.01 INSULATION AND JACKET SCHEDULE
A. INDOOR PIPING
1. Domestic Cold Water: All Pipe Sizes: Insulation shall be of the following:
a. Mineral Fiber Pipe Insulation, Type I: 1/2 inch thick.
2. Domestic Hot, Tempered, and Recirculated Hot Water: 2-inch and smaller:
a. Mineral Fiber Pipe Insulation, Type I: 1-inch thick.
END OF SECTION

SECTION 22 0593 - TESTING, ADJUSTING, AND BALANCING FOR HVAC
PART 1 - GENERAL
1.01 SECTION INCLUDES
A. Testing, adjustment, and balancing of air systems and components.
B. Measurement of final operating condition of HVAC systems.
1.02 SUBMITTALS
A. Final Report: Indicate deficiencies in systems that would prevent proper testing, adjusting, and balancing of systems and equipment to achieve specified performance.
1. Review TAB plan to reflect actual procedures and submit as part of final report.
2. Provide reports in soft cover, letter size, 3 ring binder manuals, complete with index page and indexing tabs, with cover identification at front and side. Include set of reduced drawings with air outlets and equipment identified to correspond with data sheets, and indicating thermostat locations.
3. Include actual instrument list, with manufacturer name, serial number, and date of calibration.
4. Form of Test Reports: Where the TAB standard being followed recommends a report format use that; otherwise, follow ASHRAE Std 111.
5. Units of Measure: Report data in IP (non-pound) units only.
6. Include the following on the title page of each report:
a. Name of Testing, Adjusting, and Balancing Agency.
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c. Telephone number of Testing, Adjusting, and Balancing Agency.
d. Project name.
e. Project location.
f. Project Architect.
g. Project Engineer.
h. Project Contractor.
i. Project address.
j. Report date.
k. Certification sheet signed and sealed by the certified testing and balancing engineer.
1.03 PROJECT CONDITIONS
A. Full Owner Occupancy: Owner will occupy the site and existing building during entire TAB period.
B. Cooperate with Owner during TAB operations to minimize conflicts with Owner's operations.
PART 2 - EXECUTION
2.01 EXAMINATION
A. Confirm that millwork is constructed with adequate provision for the installation of counter top lavatories and sinks.
3.02 PREPARATION
A. Rough-in fixture piping connections in accordance with minimum sizes indicated in fixture schedule for particular fixtures.
3.03 INSTALLATION
A. Install each fixture with trap, easily removable for servicing and cleaning.
B. Provide chrome plated rigid or flexible supplies to fixtures with screwdriver stops (as indicated), reducers, and elbows.
C. Install components level and plumb, according to manufacturer's rough-in requirements.
D. Assemble plumbing fixtures, trim, fittings, and other components according to manufacturer's written instructions.
E. Install counter-mounting fixtures in and attached to casework.
F. Install water supply and vent piping with stop and vent supply to each fixture to be connected to water distribution piping. Attach supplies to supports or subrises within pipe spaces behind fixtures. Install stops in locations where they can be easily reached for operation.
G. Install trap and tubular waste piping on drain outlet of each fixture to be directly connected to sanitary drainage system.
H. Install water-supply flow-control fittings with specified flow rates in future schedule at stop valves.
I. Install faucet flow-control fittings with specified flow rates and patterns in faucet spouts if faucets are not available with required rates and patterns. Include adapters if required.
3.04 CONNECTIONS
A. Piping installation requirements are specified in other sections. Drawings indicate general arrangement of piping, fittings, and specialties.
B. Connect fixtures with water supplies, stops, and risers, and with traps, soil, waste, and vent piping. Use size fittings required to match fixtures.
3.05 FIELD QUALITY CONTROL
A. Verify that installed plumbing fixtures are categories and types specified for locations where installed.
B. Check for protected plumbing fixtures to verify that they are complete and that testing, cleaning, adjusting, and commissioning specified in individual Sections have been performed.
3.06 ADJUSTING
A. Adjust stops or valves for intended water flow rate to fixtures without splashing, noise, or overflow.
3.07 CLEANING
A. Clean plumbing fixtures and equipment.
3.08 PROTECTION
A. Protect installed products from damage due to subsequent construction operations.
B. Do not permit use of fixtures by construction personnel.
C. Repair or replace damaged products before Date of Substantial Completion.

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Structural Engineer
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CA-2169
07/08/2024
Agency Approval

graphical scale: 1/8" = 1'-0"
0 2' 4' 8' 12' 16' 20'

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Frankel Zacharia
Sixth Floor Remodel
11404 West Dodge Road
Omaha, NE 68154
Mechanical Specifications
Designed: adw
Sheet No.
Drawn by: adw
Reviewed: mms
Proj: 4955
M200
ALVINE Engineering

| ELECTRICAL SYMBOLS | | | |
|--------------------|---|----------|---|
| LIGHTING AND POWER | | | |
| SYMBOL | DESCRIPTION | SYMBOL | DESCRIPTION |
| [Symbol] | SURFACE MOUNTED CEILING LUMINAIRE (# INDICATES LUMINAIRE MARK IN SCHEDULE) | [Symbol] | SURFACE MOUNTED WALL LUMINAIRE (# INDICATES LUMINAIRE MARK IN SCHEDULE) |
| [Symbol] | RECESSED MOUNTED CEILING LUMINAIRE (# INDICATES LUMINAIRE MARK IN SCHEDULE) | [Symbol] | RECESSED MOUNTED WALL LUMINAIRE (# INDICATES LUMINAIRE MARK IN SCHEDULE) |
| [Symbol] | PENDANT MOUNTED CEILING LUMINAIRE (# INDICATES LUMINAIRE MARK IN SCHEDULE) | [Symbol] | LIGHTING TRACK (# INDICATES LUMINAIRE MARK IN SCHEDULE) |
| [Symbol] | IN GRADE/FLOOR LUMINAIRE (# INDICATES LUMINAIRE MARK IN SCHEDULE) | [Symbol] | CEILING FAN - NUMBER OF BLADES IN SCHEDULE (# INDICATES LUMINAIRE MARK IN SCHEDULE) |
| [Symbol] | SHADING INDICATES LUMINAIRE ON EMERGENCY CIRCUIT OR WITH BATTERY BACKUP | [Symbol] | THEATER SPOT LIGHT (# INDICATES LUMINAIRE MARK IN SCHEDULE) |
| [Symbol] | LINES INDICATE ORIENTATION OF LUMINAIRE, WHERE INDICATED | [Symbol] | PRIMARY DAYLIGHT ZONE BOUNDARY SECONDARY DAYLIGHT ZONE BOUNDARY |
| [Symbol] | UNDERCABINET LIGHT (# INDICATES LUMINAIRE MARK IN SCHEDULE) | [Symbol] | LIGHTING CONTROL ZONE BOUNDARY |
| [Symbol] | ARROW INDICATES WALL WASH LUMINAIRE AIMING | [Symbol] | LIGHTING CIRCUIT ZONE BOUNDARY |
| [Symbol] | SINGLE POLE SWITCH | [Symbol] | SIMPLEX RECEPTACLE |
| [Symbol] | LOW VOLTAGE SWITCH/CONTROL | [Symbol] | DUPLEX RECEPTACLE "G" SUBSCRIPT INDICATES GFCI, "T" SUBSCRIPT INDICATES TAMPER RESISTANT TYPE, "U" SUBSCRIPT INDICATES COMBINATION USB CHARGING STATION |
| [Symbol] | DOUBLE POLE SWITCH | [Symbol] | AUTOMATICALLY CONTROLLED DUPLEX RECEPTACLE |
| [Symbol] | 3-WAY SWITCH | [Symbol] | AUTOMATICALLY CONTROLLED DUPLEX RECEPTACLE |
| [Symbol] | 4-WAY SWITCH | [Symbol] | ISOLATED GROUND DUPLEX RECEPTACLE |
| [Symbol] | DOOR SWITCH | [Symbol] | HOSPITAL GRADE DUPLEX RECEPTACLE |
| [Symbol] | MOMENTARY CONTACT SWITCH | [Symbol] | RED DUPLEX RECEPTACLE |
| [Symbol] | TIMER SWITCH | [Symbol] | DUPLEX RECEPTACLE - SPLIT WIRED |
| [Symbol] | SINGLE POLE MANUAL MOTOR STARTER WITH THERMAL OVERLOAD AND PILOT LIGHT | [Symbol] | AUTOMATICALLY CONTROLLED DUPLEX RECEPTACLE - SPLIT WIRED |
| [Symbol] | SWITCH AND FUSE | [Symbol] | DRYER RECEPTACLE NEMA 14-30 (125/250V 30A) |
| [Symbol] | SWITCH AND FUSAT | [Symbol] | SPECIAL PURPOSE RECEPTACLE (NEMA CONFIGURATION AS NOTED) |
| [Symbol] | MANUAL DIMMER OR FAN SPEED CONTROL ("F" INDICATES FAN SPEED CONTROL) | [Symbol] | HORIZONTAL MOUNTED DUPLEX RECEPTACLE |
| [Symbol] | CEILING MOUNTED OCCUPANCY SENSOR (# INDICATES FIXTURE NUMBER IN SCHEDULE) | [Symbol] | RANGE RECEPTACLE NEMA 14-50 (125/250V 50A) |
| [Symbol] | WALL MOUNTED OCCUPANCY SENSOR/SWITCH (# INDICATES FIXTURE NUMBER IN SCHEDULE) | [Symbol] | WELDER RECEPTACLE NEMA 6-50 (250V 50A) |
| [Symbol] | PUSH BUTTON STATION | [Symbol] | DOUBLE DUPLEX RECEPTACLE |
| [Symbol] | PHOTOCELL CEILING MOUNTED | [Symbol] | (1) DUPLEX, (1) DUPLEX AUTOMATICALLY CONTROLLED |
| [Symbol] | PHOTOCELL WALL MOUNTED | [Symbol] | ISOLATED GROUND DOUBLE DUPLEX RECEPTACLE |
| [Symbol] | TIME SWITCH | [Symbol] | RED DOUBLE DUPLEX RECEPTACLE |
| [Symbol] | RELAY | [Symbol] | RECEPTACLE IN AV BACKBOX |
| [Symbol] | EMERGENCY LIGHTING RELAY | [Symbol] | WALL CLOCK HANGER RECEPTACLE |
| [Symbol] | LIGHTING CONTACTOR | [Symbol] | CEILING MOUNTED DUPLEX RECEPTACLE |
| [Symbol] | COMBINATION POWER/DATA FLOOR OUTLET ("F" INDICATES DEVICE TYPE IN SCHEDULE) | [Symbol] | CEILING MOUNTED DOUBLE DUPLEX RECEPTACLE |
| [Symbol] | COMBINATION POWER/DATA/AV TABLET OUTLET ("F" INDICATES DEVICE TYPE IN SCHEDULE) | [Symbol] | CEILING MOUNTED RED DUPLEX RECEPTACLE |
| [Symbol] | MULTI-OUTLET ASSEMBLY - LENGTH AS INDICATED | [Symbol] | CEILING MOUNTED SPECIAL PURPOSE RECEPTACLE |
| [Symbol] | MECH EQUIPMENT WITH ELEC CONNECTION SEE MECHANICAL/ELECTRICAL COORDINATION SCHEDULE | [Symbol] | CEILING MOUNTED SIMPLEX RECEPTACLE |
| [Symbol] | | [Symbol] | POWER FLOOR OUTLET ("F" INDICATES DEVICE TYPE IN SCHEDULE) |
| [Symbol] | | [Symbol] | RECEPTACLE IN CEILING AV BACKBOX |

FIRE DETECTION AND ALARM

| SYMBOL | DESCRIPTION | SYMBOL | DESCRIPTION | SYMBOL | DESCRIPTION |
|----------|---|----------|---|----------|---|
| [Symbol] | FIRE ALARM AUTOMATIC SMOKE DETECTOR | [Symbol] | FIRE ALARM CONTROL MODULE | [Symbol] | WALL FIRE ALARM SPEAKER |
| [Symbol] | FIRE ALARM AUTOMATIC SMOKE DETECTOR WITH SOUNDER BASE | [Symbol] | FIRE ALARM MONITOR MODULE | [Symbol] | CEILING FIRE ALARM LIGHT (# INDICATES CANDELA RATING WHERE INDICATED) |
| [Symbol] | FIRE ALARM AUTOMATIC WALL SMOKE DETECTOR | [Symbol] | FIRE SPRINKLER VALVE TAMPER SWITCH | [Symbol] | WALL FIRE ALARM LIGHT (# INDICATES CANDELA RATING WHERE INDICATED) |
| [Symbol] | FIRE ALARM BEAM DETECTOR AND REFLECTOR | [Symbol] | FIRE SPRINKLER FLOW SWITCH | [Symbol] | FIRE ALARM ANNUNCIATOR PANEL |
| [Symbol] | SAMPLING TUBE TYPE SMOKE DETECTOR | [Symbol] | FIRE ALARM HORN AND LIGHT COMBINATION | [Symbol] | FIRE ALARM CONTROL PANEL |
| [Symbol] | FIRE ALARM AUTOMATIC CEILING HEAT DETECTOR | [Symbol] | FIRE ALARM HORN ("C" INDICATES CEILING) | [Symbol] | FIRE FIGHTER'S TELEPHONE JACK |
| [Symbol] | FIRE ALARM AUTOMATIC WALL HEAT DETECTOR | [Symbol] | CEILING FIRE ALARM HORN AND LIGHT COMBINATION (# INDICATES CANDELA RATING WHERE INDICATED) | [Symbol] | FIRE ALARM MAGNETIC DOOR HOLDER |
| [Symbol] | CARBON MONOXIDE DETECTOR | [Symbol] | CEILING FIRE ALARM SPEAKER AND LIGHT COMBINATION (# INDICATES CANDELA RATING WHERE INDICATED) | [Symbol] | COMBINATION FIRE/SMOKE DAMPER |
| [Symbol] | CARBON MONOXIDE/SMOKE DETECTOR | [Symbol] | WALL FIRE ALARM SPEAKER AND LIGHT COMBINATION (# INDICATES CANDELA RATING WHERE INDICATED) | [Symbol] | SMOKE DAMPER |
| [Symbol] | FIRE ALARM MANUAL STATION | [Symbol] | CEILING FIRE ALARM SPEAKER | | |

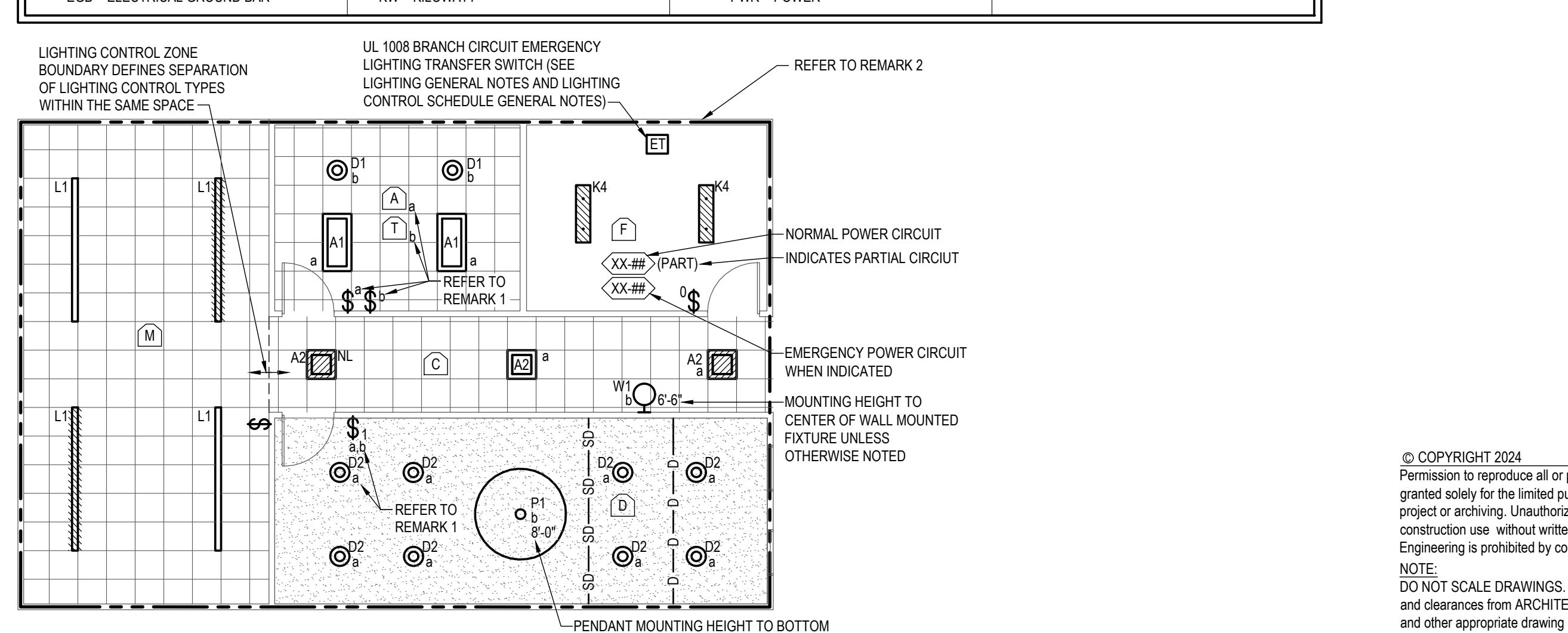
| ELECTRICAL SYMBOLS | | | |
|----------------------------|---|----------|--|
| TECHNOLOGY SYSTEM ROUGH-IN | | | |
| SYMBOL | DESCRIPTION | SYMBOL | DESCRIPTION |
| [Symbol] | COMMUNICATIONS OUTLET | [Symbol] | CEILING COMMUNICATIONS OUTLET |
| [Symbol] | TELEVISION / VIDEO OUTLET | [Symbol] | DOOR LOCK POWER SUPPLY |
| [Symbol] | AV WALL OUTLET | [Symbol] | ACCESS CONTROL DEVICE LOCATION "M" INDICATES MULLION MOUNT |
| [Symbol] | GROUND BAR | [Symbol] | CONDUIT SLEEVE WITH BUSHINGS |
| [Symbol] | CABLE TRAY ("F" INDICATES TRAY DIMENSIONS) | [Symbol] | J-HOOK STYLE CABLE HANGERS |
| [Symbol] | CABLE TRAY - WALL MOUNTED ("F" INDICATES TRAY DIMENSIONS) | [Symbol] | CABLE RUNWAY ("F" INDICATES TRAY DIMENSIONS) |

| MISCELLANEOUS | | | |
|---------------|--|----------|-------------------------|
| SYMBOL | DESCRIPTION | SYMBOL | DESCRIPTION |
| [Symbol] | COMBINATION CLOCK / SPEAKER UNIT | [Symbol] | CHIME |
| [Symbol] | AREA OF RESCUE COMMUNICATION SYSTEM MASTER UNIT | [Symbol] | CHIME BUTTON |
| [Symbol] | AREA OF RESCUE COMMUNICATION SYSTEM REMOTE UNIT | [Symbol] | ELECTRIC SOLENOID VALVE |
| [Symbol] | ELECTRIC VEHICLE CHARGING STATION DASHED LINES INDICATE FUTURE | | |

| SUBSCRIPTS | | | |
|------------|--|--------|---|
| SYMBOL | DESCRIPTION | SYMBOL | DESCRIPTION |
| EP | SUBSCRIPT "EP" APPLIED TO ANY SYMBOL INDICATES EXPLOSION PROOF, CLASS, GROUP AND DIVISION AS NOTED | K | SUBSCRIPT "K" ADDED TO ANY SYMBOL INDICATES KEY OPERATED |
| E | SUBSCRIPT "E" ADDED TO ANY SYMBOL INDICATES EXISTING | WG | SUBSCRIPT "WG" ADDED TO ANY SYMBOL INDICATES WIRE GUARD |
| PD | SUBSCRIPT "PD" ADDED TO ANY FLOOR OUTLET INDICATES PEDESTAL MOUNTED | P | SUBSCRIPT "P" ADDED TO ANY SYMBOL INDICATES PILOT LIGHT |
| AC | SUBSCRIPT "AC" ADDED TO ANY SYMBOL INDICATES ABOVE COUNTER, LOCATE CENTER OF DEVICE 4" ABOVE COUNTER SURFACE OR WHERE PRESENT, 4" ABOVE BACKSPASH, WHERE INDICATED ADJACENT TO LAVATORY WITHOUT COUNTER, LOCATE CENTER OF DEVICE 8" ABOVE RIM OF LAVATORY. | NL | SUBSCRIPT "NL" ADDED TO ANY SYMBOL INDICATES AN UNSWITCHED LUMINAIRE OPERATING AS A NIGHT LIGHT |

SYMBOLS INDICATED HERE AND NOT USED IN THE CONTRACT DOCUMENTS DO NOT APPLY TO THIS PROJECT. ADDITIONAL SYMBOLS AND ABBREVIATIONS MAY BE INDICATED IN THE CONTRACT DOCUMENTS.

| ABBREVIATIONS | | | |
|---------------|-------------------------------------|---------|--------------------------------------|
| A | AMP | ELEC | ELECTRICAL |
| AC | ALTERNATING CURRENT | EMD | ESTIMATED MAXIMUM DEMAND |
| AFF | ABOVE FINISHED FLOOR | EMI | ELECTROMAGNETIC INTERFERENCE |
| AHJ | AUTHORITY HAVING JURISDICTION | EPO | EMERGENCY POWER OFF |
| APPROX | APPROXIMATELY | EQUIP | EQUIPMENT |
| AUTS | AUTOMATIC TRANSFER SWITCH | EXIST | EXISTING |
| AUX | AUXILIARY | FA | FIRE ALARM |
| AV | AUDIOVISUAL | FAN | FIRE ALARM ANNUNCIATOR PANEL |
| AVG | AVERAGE | FACP | FIRE ALARM CONTROL PANEL |
| AWG | AMERICAN WIRE GAUGE | FB | FLOOR BOX |
| BMSCS | BUILDING MANAGEMENT CONTROL SYSTEMS | FL | FLOOR |
| BLDG | BUILDING | FLA | FULL LOAD AMPS |
| C | CONDUIT | FT | FEET |
| CATV | CABLE TELEVISION | FSAE | FIRE SERVICE ACCESS ELEVATOR |
| CB | CIRCUIT BREAKER | GALV | GALVANIZED |
| CCTV | CLOSED CIRCUIT TELEVISION | GC | GENERAL CONTRACTOR |
| CKT | CIRCUIT | GEC | GROUNDING ELECTRODE CONDUCTOR |
| CL | CENTER LINE | GEN | GENERATOR |
| CLG | CEILING | GFCI | GROUND FAULT CIRCUIT INTERRUPTER |
| CRAC | COMPUTER RM AIR CONDITIONER | GND | GROUND |
| DIA | DIAMETER | HP | HORSEPOWER |
| DISC | DISCONNECT | HZ | HERTZ |
| DIST | DISTRIBUTION | IC | INTERCOM |
| DN | DOWN | IB | JUNCTION BOX |
| DWG | DRAWING | KOMIL | THOUSAND CIRCULAR MILS |
| EC | ELECTRICAL CONTRACTOR | KV | KILOVOLT |
| EGB | ELECTRICAL GROUND BAR | KVA | KILOVOLT AMPERE |
| | | KW | KILOWATT |
| | | LTG | LIGHTING |
| | | MATV | MASTER ANTENNA TELEVISION |
| | | MAX | MAXIMUM |
| | | MCB | MAIN CIRCUIT BREAKER |
| | | MECH | MECHANICAL |
| | | MOB | MAIN GROUND BAR |
| | | MIN | MINIMUM |
| | | MISC | MISCELLANEOUS |
| | | MLO | MAIN LUGS ONLY |
| | | MTD | MOUNTED |
| | | MTG | MOUNTING |
| | | N1 | NEMA 1 ENCLOSURE |
| | | N3R | NEMA 3R ENCLOSURE |
| | | N4X | NEMA 4X ENCLOSURE |
| | | NC | NORMALLY CLOSED |
| | | NIC | NOT IN CONTRACT |
| | | NO | NORMALLY OPEN |
| | | NTS | NOT TO SCALE |
| | | OC | ON CENTER |
| | | OFCI | OWNER FURNISHED CONTRACTOR INSTALLED |
| | | PB | PULLBOX |
| | | PBB | PRIMARY BONDING BUSBAR |
| | | PDU | POWER DISTRIBUTION UNIT |
| | | PERP | PERPENDICULAR |
| | | PIV | POST INDICATOR VALVE |
| | | PNL | PANEL |
| | | PWR | POWER |
| | | REQD | REQUIRED |
| | | RM | ROOM |
| | | SSB | SECONDARY BONDING BUSBAR |
| | | SCHD | SCHEDULE |
| | | SIM | SIMILAR |
| | | SPD | SURGE PROTECTIVE DEVICE |
| | | SPECS | SPECIFICATIONS |
| | | SS | STAINLESS STEEL |
| | | STD | STANDARD |
| | | SW | SWITCH |
| | | SWBD | SWITCHBOARD |
| | | SWGR | SWITCHGEAR |
| | | TELECOM | TELECOMMUNICATIONS |
| | | TEMP | TEMPERATURE |
| | | TTB | TELEPHONE TERMINAL BOARD |
| | | TV | TELEVISION |
| | | TYP | TYPICAL |
| | | UG | UNDERGROUND |
| | | UNO | UNLESS NOTED OTHERWISE |
| | | UPS | UNINTERRUPTIBLE POWER SUPPLY |
| | | VA | VOLT-AMPS |
| | | W | WATT |
| | | XFMR | TRANSFORMER |



GENERAL NOTES:
a. REFER TO LIGHTING CONTROL SCHEDULE AND SPECIFICATIONS FOR REQUIREMENTS. ROOMS SHOWN ARE AN EXAMPLE ONLY.

- REMARKS:
1. WHERE INDICATED, LOWER CASE LETTERING INDICATES LUMINAIRE(S) CONTROLLED BY CONTROL DEVICE/ CONTROL TYPE WITH THE SAME LETTER WITHIN THE SAME ROOM.
2. LIGHTING CIRCUIT ZONE BOUNDARY DRAWINGS INDICATE LIGHTING BRANCH CIRCUITS AND ASSOCIATED CIRCUIT ZONES. BOUNDARIES FOR SPECIFIC NORMAL AND/OR EMERGENCY LIGHTING CIRCUITS ARE INDICATED BY "LIGHTING CIRCUIT BOUNDARY" LINE TYPE. CONNECT FIXTURES WITHIN EACH CIRCUIT ZONE TO INDICATED BRANCH CIRCUITS. CONNECT LIGHTING CONTROLS WITHIN EACH ROOM TO CONTROL FIXTURES WITHIN THAT ROOM UNLESS OTHERWISE NOTED.

LIGHTING CIRCUIT AND ANNOTATION LEGEND

NO SCALE



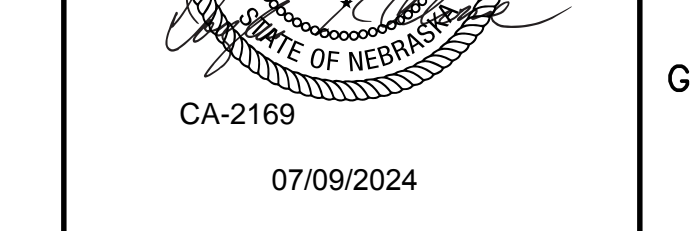
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Mechanical/Electrical Engineers
Alvine Engineers
1201 Cass Street
Omaha, NE 68102
402-348-7007

Structural Engineer

Civil Engineer



07/09/2024

Agency Approval

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Frankel Zacharia
Sixth Floor Remodel
11404 West Dodge Road
Omaha, NE 68154

Electrical Symbols and Abbreviations

Designed by: arm Sheet No.
Drawn by: mrg
Reviewed:
Proj: 4955

E000



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Oklahoma City: 1001 W. Wilshire Blvd., Suite 102, Oklahoma City, OK 73116, Phone: (405) 936-3480
Des Moines: 400 East Court Avenue, Suite 130, Des Moines, IA 50309, Phone: (515) 243-0569

July 08, 2024, 4:41pm 20241004E000.dwg arm/edg

LIGHTING DEMOLITION - BASE BID

EXISTING FIXTURES SHALL BE REUSED. ONLY FIXTURES INDICATED ON DEMO PLAN TO BE RELOCATED (R) SHALL BE REMOVED AND SALVAGED FOR REINSTALL. CLEAN ALL FIXTURES PRIOR TO CONSTRUCTION COMPLETE. EXISTING CIRCUIT SHALL REMAIN FOR REUSE IN EACH AREA.

LIGHTING DEMOLITION - ALTERNATE 1

EXISTING FIXTURES SHALL BE REUSED. ONLY FIXTURES INDICATED ON DEMO PLAN TO BE RELOCATED (R) SHALL BE REMOVED AND SALVAGED FOR REINSTALL. ALL FIXTURES SHALL BE RELAMPED WITH LED T8 LAMPS AND CLEANED PRIOR TO CONSTRUCTION COMPLETE. EXISTING CIRCUIT SHALL REMAIN FOR REUSE IN EACH AREA.

DEMOLITION NOTES:

- ITEMS SHOWN IN BOLD SHALL BE REMOVED. ITEMS SHOWN IN HALFTONE ARE EXISTING TO REMAIN. REFER TO LIGHTING DEMOLITION NOTES FOR SPECIFICS ON ALTERNATES.
- REMOVE ALL EXISTING CABLING FROM DATA DEVICES THAT ARE EXISTING TO REMAIN.
- ALL DATA DEVICES INDICATED TO BE REMOVED SHALL INCLUDE THE REMOVAL OF JUNCTION BOX IN WALL, AND PATCH AND REPAIR OF DRYWALL.
- EXISTING LIGHTING CIRCUITS SHALL BE REUSED WITH REPLACEMENT FIXTURES AND SWITCHES. REMOVE EXISTING FIXTURES AS SHOWN, BUT CIRCUIT SHALL REMAIN.
- THE OWNER SHALL HAVE FIRST SALVAGE RIGHTS TO ALL FIXTURES, DEVICES AND EQUIPMENT REMOVED. COORDINATE WITH OWNER PRIOR TO DEMOLITION.
- WHERE EXISTING CIRCUITS ARE NOT REUSED, REMOVE CONDUCTORS AND ASSOCIATED ACCESSIBLE RACEWAYS BACK TO THE SOURCE. WHERE AN EXISTING DEVICE IS REMOVED FROM AN EXISTING CIRCUIT, PROVIDE NEW WIRING AS REQUIRED TO MAINTAIN CONTINUITY OF EXISTING CIRCUIT. UNLESS NOTED OTHERWISE, ABANDON CONCEALED CONDUITS IN WALLS WHICH ARE NOT REMOVED.
- REPAIR OR REPLACE BUILDING ELEMENTS WHICH ARE DAMAGED AS PART OF DEMOLITION WORK.
- DEMOLITION DRAWINGS INDICATE FIXTURES, DEVICES AND MAJOR PIECES OF EQUIPMENT WHICH ARE TO BE REMOVED OR RECONNECTED. REMOVE INDICATED ITEMS AND ASSOCIATED ITEMS NOT INDICATED BUT WHICH MUST BE REMOVED TO ACCOMMODATE REMODELING. THE ITEMS INDICATED SPECIFICALLY ON THE DRAWINGS TO BE REMOVED ARE ONLY TO INDICATE IN GENERAL TO THE CONTRACTOR THE AMOUNT OF DEMOLITION WORK REQUIRED. THE CONTRACTOR SHALL VISIT THE SITE TO DETERMINE THE EXTENT OF DEMOLITION REQUIRED AND SHALL BECOME FAMILIAR WITH EXISTING CONDITIONS PRIOR TO THE BID DATE. SEE SPECIFICATIONS FOR ADDITIONAL INFORMATION.
- DISCONNECT MECHANICAL EQUIPMENT BEING REMOVED BY MECHANICAL CONTRACTOR. COORDINATE EQUIPMENT REMOVAL LOCATIONS WITH MECHANICAL DRAWINGS.
- SEE ARCHITECTURAL DRAWINGS FOR ADDITIONAL ELECTRICAL DEMOLITION ITEMS. DISCONNECT AND REMOVE ELECTRICAL DEVICES, EQUIPMENT, AND ASSOCIATED WIRING AS REQUIRED TO ACCOMMODATE NEW WORK.
- POWER TO EXISTING AREAS NOT BEING REMODELED SHALL BE MAINTAINED AT ALL TIMES EXCEPT FOR SHORT TERM OUTAGES NECESSARY FOR RECONNECTION OF EXISTING CIRCUITS. COORDINATE AND SCHEDULE OUTAGES WITH THE OWNER.
- COORDINATE DEMOLITION WITH THE WORK OF OTHER TRADES. PROVIDE TEMPORARY POWER AS REQUIRED TO ALLOW THE WORK OF OTHER TRADES TO PROCEED OR AS REQUIRED TO ALLOW THE OWNER TO OCCUPY THE SPACE.
- REMOVE INDICATED FIRE ALARM DEVICES. REMOVE ASSOCIATED WIRING TO NEAREST REMAINING DEVICES(S). MODIFY SYSTEM CONFIGURATION, PROGRAMMING, ETC. AS REQUIRED FOR REMOVED DEVICES.
- THIS PROJECT WILL BE PHASED. SEE ARCHITECTURAL PLANS FOR DETAILS. ELECTRICAL CIRCUITS SERVING AREAS NOT UNDER CONSTRUCTION SHALL REMAIN ACTIVE UNTIL THOSE AREAS ARE TURNED OVER TO THE CONTRACTOR FOR CONSTRUCTION.
- REMOVE DEMOLISHED ITEMS FROM PROJECT SITE. PROPERLY DISPOSE OF ITEMS INCLUDING LAMPS AND BALLASTS.

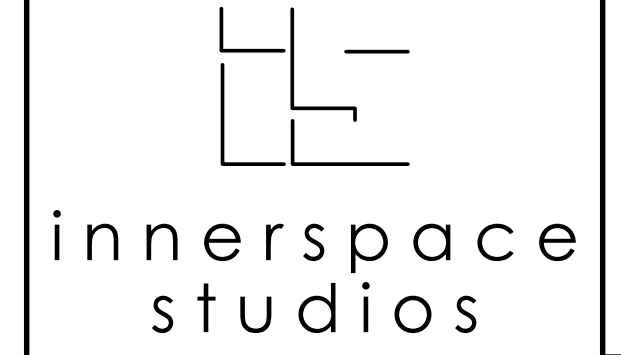
FLAG NOTES

- EXISTING SECURITY PANELS TO BE REMOVED AND REINSTALLED BY OTHERS.
- REMOVE LIGHT SWITCH DEVICE AND JUNCTION BOX. CIRCUIT TO REMAIN FOR REUSE.
- REMOVE FIRE ALARM DEVICE AND SALVAGE FOR REUSE.
- SEE SHEET E101 FOR RELOCATION OF EXISTING LIGHT SWITCH NEAR ENTRY. CIRCUIT SHALL BE REUSED.
- SEE SHEET E101 FOR RELOCATION OF EXISTING LIGHT SWITCH NEAR DOOR. CIRCUIT SHALL BE REUSED.

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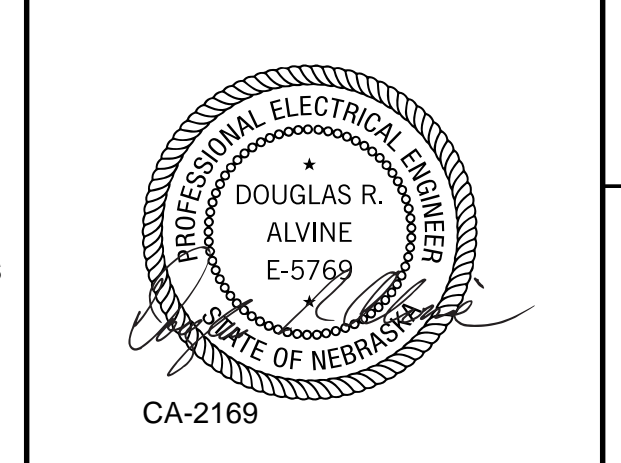
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Mechanical/Electrical Engineers
Alvine Engineers
 1201 Cass Street
 Omaha, NE 68102
 402-346-7007

Structural Engineer

Civil Engineer

Professional Engineer



07/09/2024

Agency Approval

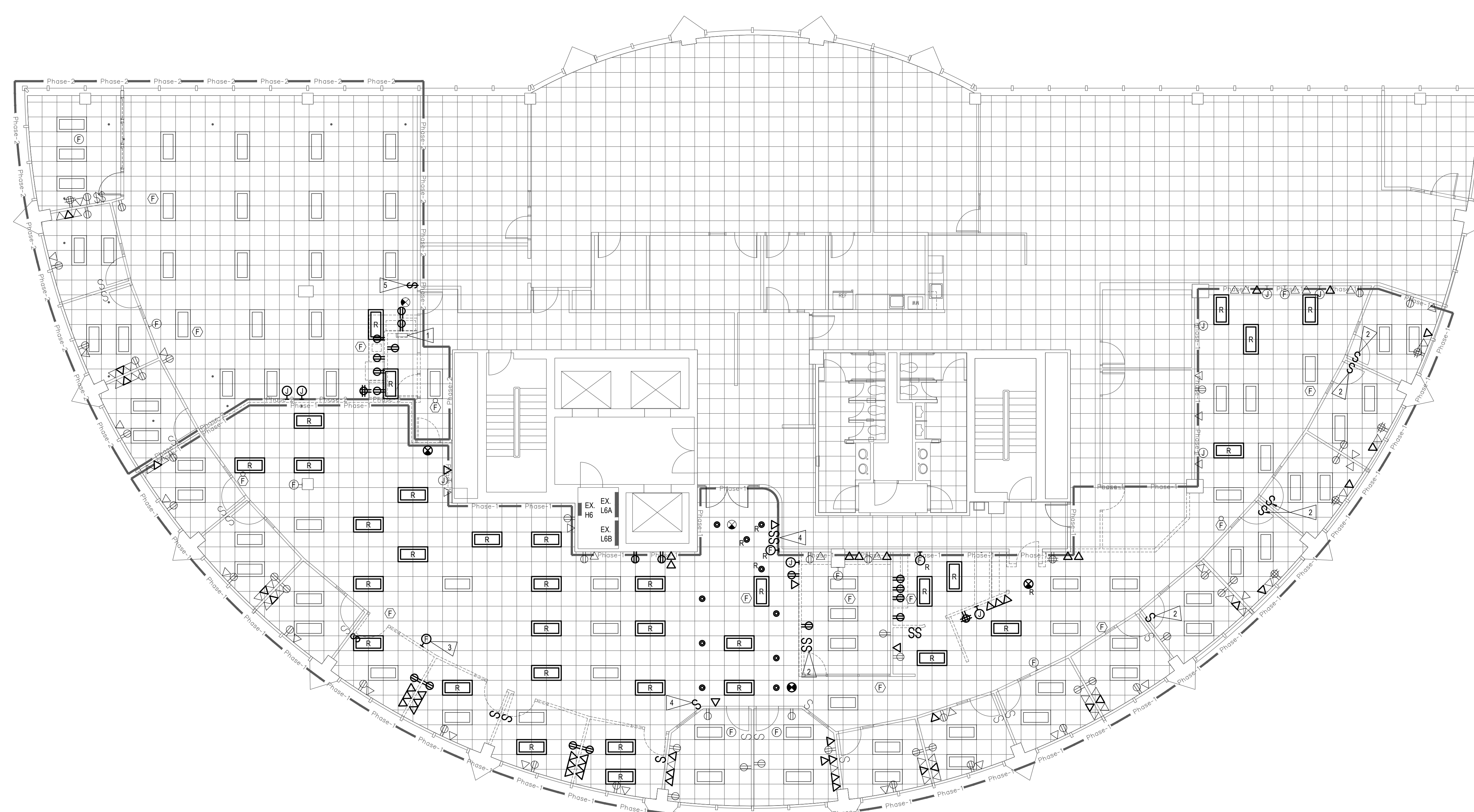
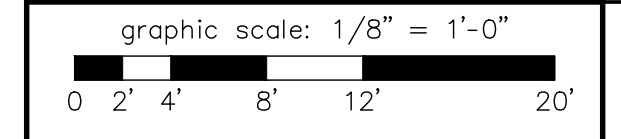
Frankel Zacharia
 Sixth Floor Remodel
 11404 West Dodge Road
 Omaha, NE 68154

Electrical Demolition Plan - Base Bid and Alternate 1

Designed by: am
 Drawn by: mrg
 Reviewed:
 Proj: 4955

Sheet No. ED101

File Path



A1 Electrical Demolition Plan - Base Bid and Alternate 1
 ED101 1/8" = 1'-0"

July 08, 2024, 4:43pm 20241004ED101.dwg innerspace

LIGHTING DEMOLITION - ALTERNATE 2

EXISTING FIXTURES SHALL BE REPLACED, AS SHOWN ON SHEET E102. REMOVE ALL INDICATED, BUT ASSOCIATED CIRCUIT SHALL BE REMAIN FOR REUSE IN EACH AREA.

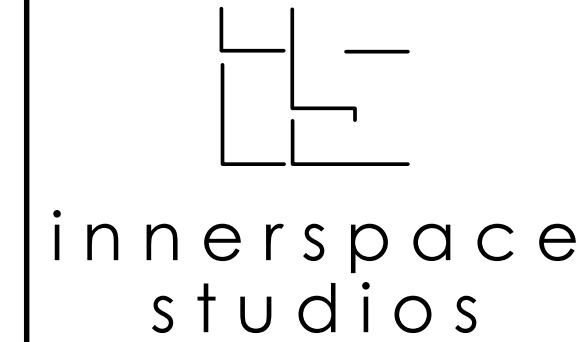
DEMOLITION NOTES:

- ITEMS SHOWN IN BOLD SHALL BE REMOVED. ITEMS SHOWN IN HALFTONE ARE EXISTING TO REMAIN. REFER TO LIGHTING DEMOLITION NOTES FOR SPECIFICS ON ALTERNATES.
- REMOVE ALL EXISTING CABLING FROM DATA DEVICES THAT ARE EXISTING TO REMAIN.
- ALL DATA DEVICES INDICATED TO BE REMOVED SHALL INCLUDE THE REMOVAL OF JUNCTION BOX IN WALL, AND PATCH AND REPAIR OF DRYWALL.
- EXISTING LIGHTING CIRCUITS SHALL BE REUSED WITH REPLACEMENT FIXTURES AND SWITCHES. REMOVE EXISTING FIXTURES AS SHOWN, BUT CIRCUIT SHALL REMAIN.
- THE OWNER SHALL HAVE FIRST SALVAGE RIGHTS TO ALL FIXTURES, DEVICES AND EQUIPMENT REMOVED. COORDINATE WITH OWNER PRIOR TO DEMOLITION.
- WHERE EXISTING CIRCUITS ARE NOT REUSED, REMOVE CONDUCTORS AND ASSOCIATED ACCESSIBLE RACEWAYS BACK TO THE SOURCE. WHERE AN EXISTING DEVICE IS REMOVED FROM AN EXISTING CIRCUIT, PROVIDE NEW WIRING AS REQUIRED TO MAINTAIN CONTINUITY OF EXISTING CIRCUIT. UNLESS NOTED OTHERWISE, ABANDON CONCEALED CONDUITS IN WALLS WHICH ARE NOT REMOVED.
- REPAIR OR REPLACE BUILDING ELEMENTS WHICH ARE DAMAGED AS PART OF DEMOLITION WORK.
- DEMOLITION DRAWINGS INDICATE FIXTURES, DEVICES AND MAJOR PIECES OF EQUIPMENT WHICH ARE TO BE REMOVED OR RECONNECTED. REMOVE INDICATED ITEMS AND ASSOCIATED ITEMS NOT INDICATED BUT WHICH MUST BE REMOVED TO ACCOMMODATE REMODELING. THE ITEMS INDICATED SPECIFICALLY ON THE DRAWINGS TO BE REMOVED ARE ONLY TO INDICATE IN GENERAL TO THE CONTRACTOR THE AMOUNT OF DEMOLITION WORK REQUIRED. THE CONTRACTOR SHALL VISIT THE SITE TO DETERMINE THE EXTENT OF DEMOLITION REQUIRED AND SHALL BECOME FAMILIAR WITH EXISTING CONDITIONS PRIOR TO THE BID DATE. SEE SPECIFICATIONS FOR ADDITIONAL INFORMATION.
- DISCONNECT MECHANICAL EQUIPMENT BEING REMOVED BY MECHANICAL CONTRACTOR. COORDINATE EQUIPMENT REMOVAL LOCATIONS WITH MECHANICAL DRAWINGS.
- SEE ARCHITECTURAL DRAWINGS FOR ADDITIONAL ELECTRICAL DEMOLITION ITEMS. DISCONNECT AND REMOVE ELECTRICAL DEVICES, EQUIPMENT, AND ASSOCIATED WIRING AS REQUIRED TO ACCOMMODATE NEW WORK.
- POWER TO EXISTING AREAS NOT BEING REMODELED SHALL BE MAINTAINED AT ALL TIMES EXCEPT FOR SHORT TERM OUTAGES NECESSARY FOR RECONNECTION OF EXISTING CIRCUITS. COORDINATE AND SCHEDULE OUTAGES WITH THE OWNER.
- COORDINATE DEMOLITION WITH THE WORK OF OTHER TRADES. PROVIDE TEMPORARY POWER AS REQUIRED TO ALLOW THE WORK OF OTHER TRADES TO PROCEED OR AS REQUIRED TO ALLOW THE OWNER TO OCCUPY THE SPACE.
- REMOVE INDICATED FIRE ALARM DEVICES. REMOVE ASSOCIATED WIRING TO NEAREST REMAINING DEVICES(S). MODIFY SYSTEM CONFIGURATION, PROGRAMMING, ETC. AS REQUIRED FOR REMOVED DEVICES.
- THIS PROJECT WILL BE PHASED. SEE ARCHITECTURAL PLANS FOR DETAILS. ELECTRICAL CIRCUITS SERVING AREAS NOT UNDER CONSTRUCTION SHALL REMAIN ACTIVE UNTIL THOSE AREAS ARE TURNED OVER TO THE CONTRACTOR FOR CONSTRUCTION.
- REMOVE DEMOLISHED ITEMS FROM PROJECT SITE. PROPERLY DISPOSE OF ITEMS INCLUDING LAMPS AND BALLASTS.

FLAG NOTES

- EXISTING SECURITY PANELS TO BE REMOVED AND REINSTALLED BY OTHERS.
- REMOVE LIGHT SWITCH DEVICE AND JUNCTION BOX. CIRCUIT TO REMAIN FOR REUSE.
- REMOVE FIRE ALARM DEVICE AND SALVAGE FOR REUSE.
- SEE SHEET E101 FOR RELOCATION OF EXISTING LIGHT SWITCH NEAR ENTRY. CIRCUIT SHALL BE REUSED.
- REMOVE LIGHT SWITCH DEVICE, BUT JUNCTION BOX AND CIRCUIT TO REMAIN FOR REUSE.

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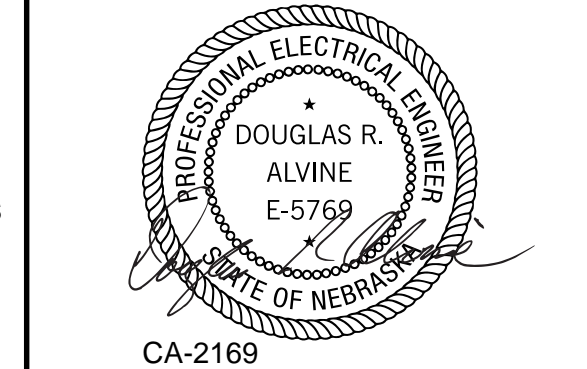
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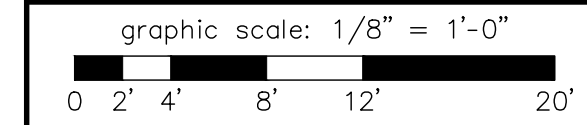
Structural Engineer

Civil Engineer



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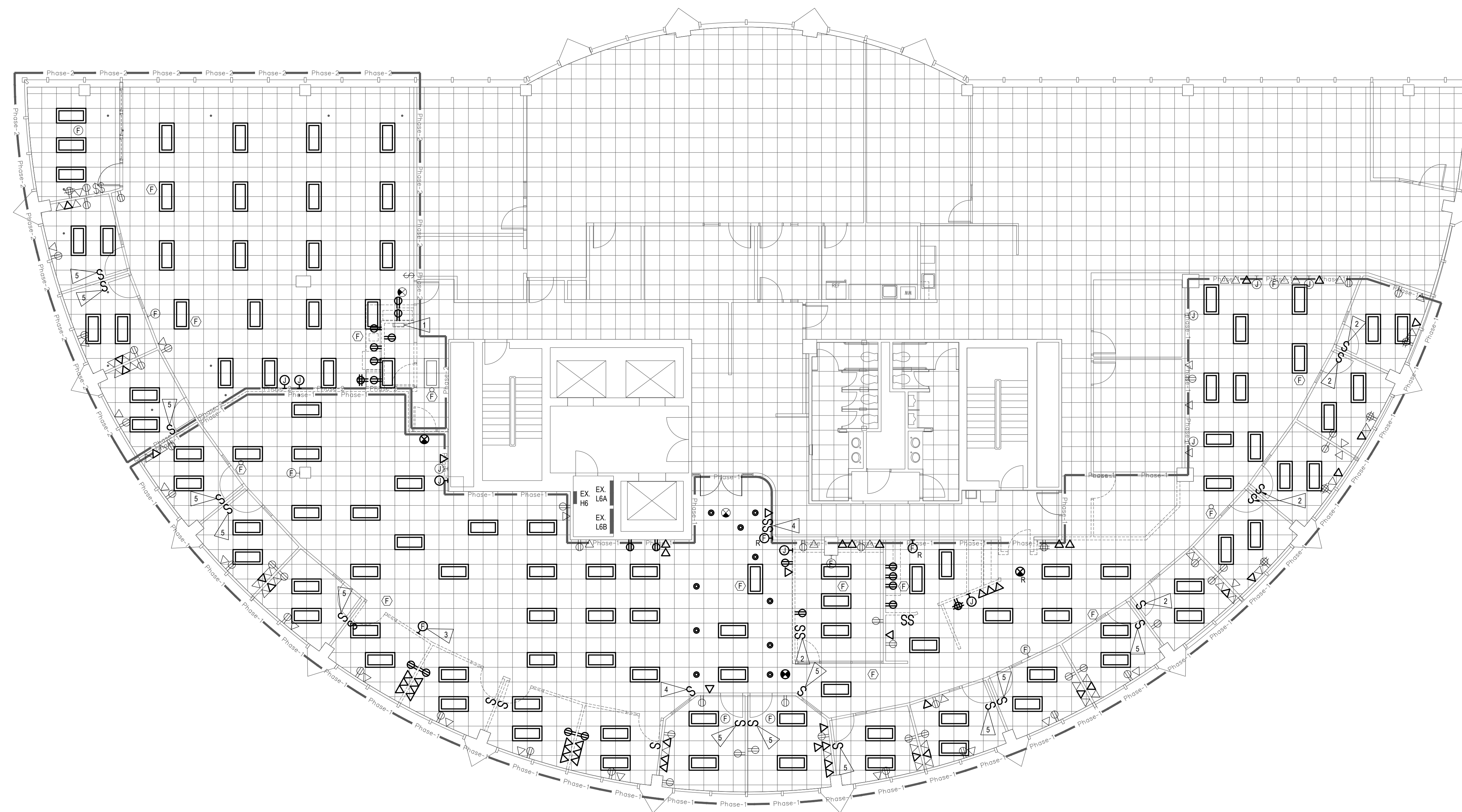
Frankel Zacharia
Sixth Floor Remodel
11404 West Dodge Road
Omaha, NE 68154

Electrical Demolition Plan -
Alternate 2

Designed by: am Sheet No.
Drawn by: mrg **ED102**
Reviewed:
Proj: 4955



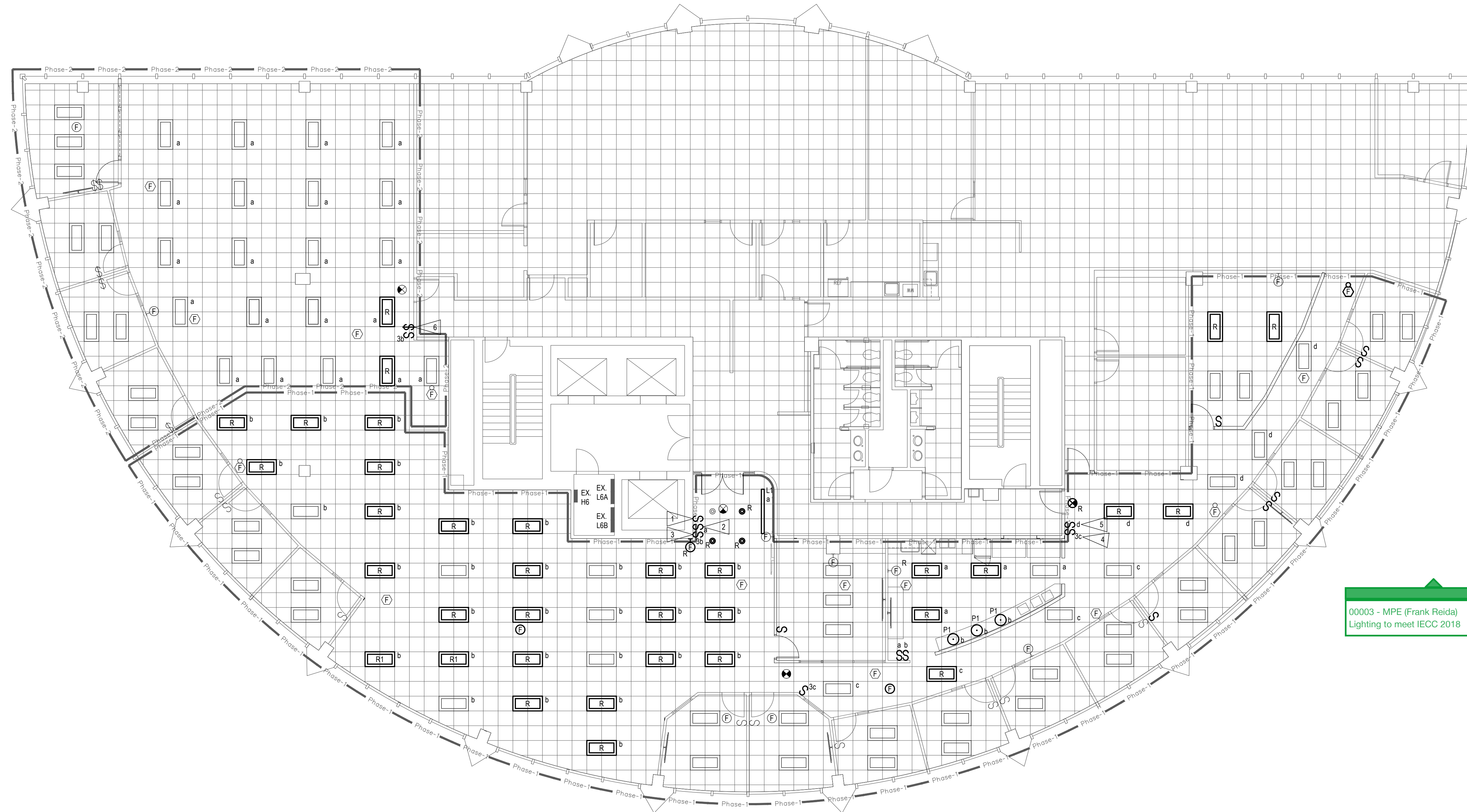
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A1 Electrical Demolition Plan - Alternate 2

ED101 1/8" = 1'-0"

July 08, 2024, 4:41pm 20241004ED102.dwg mcmrml



LIGHTING SCOPE - BASE BID

EXISTING FIXTURES SHALL BE REUSED. FIXTURES INDICATED ON PLAN TO BE RELOCATED (R) SHALL BE REINSTALLED IN INDICATED LOCATION. CLEAN ALL FIXTURES PRIOR TO CONSTRUCTION COMPLETE.

LIGHTING SCOPE - ALTERNATE 1

EXISTING FIXTURES SHALL BE REUSED. FIXTURES INDICATED ON PLAN TO BE RELOCATED (R) SHALL BE REINSTALLED IN INDICATED LOCATION. ALL 2X4 FIXTURES SHALL BE RELAMPED WITH LED T8 LAMPS AND CLEANED PRIOR TO CONSTRUCTION COMPLETE. RETROFIT TUBES SHALL BE 4' LED T8 RETROFIT TUBES, 1500 LUMENS (3000 LUMEN FIXTURE EQUIVALENT), 4000K. VERIFY COMPATIBILITY WITH EXISTING FIXTURE BALLAST.

LIGHTING GENERAL NOTES:

- ITEMS SHOWN IN BOLD ARE NEW. ITEMS SHOWN IN HALFTONE ARE EXISTING TO REMAIN.
- REFER TO ARCHITECTURAL REFLECTED CEILING PLANS FOR EXACT LUMINAIRE AND DEVICE LOCATIONS.
- REFER TO SHEET E000 FOR LIGHTING CIRCUIT AND ANNOTATION LEGEND.
- EMERGENCY LUMINAIRES REQUIRE ADDITIONAL CONTROL DEVICES WITH MULTIPLE CONNECTIONS SUCH AS UNSWITCHED NORMAL POWER, SWITCHED NORMAL POWER, AND UNSWITCHED EMERGENCY POWER. SEE LIGHTING CONTROL SCHEDULE FOR EMERGENCY LIGHTING RELAY REQUIREMENTS. VERIFY EXACT WIRING REQUIREMENTS WITH RELAYS PROVIDED. UPON NORMAL POWER FAILURE, CONTROL DEVICES SHALL CONNECT THE EMERGENCY POWER CIRCUIT(S) AT FULL INTENSITY TO THE UNSWITCHED EMERGENCY POWER CIRCUIT REGARDLESS OF THE POSITION OF THE ASSOCIATED SWITCH. EMERGENCY LIGHTING UL924 RELAYS ARE NOT INDICATED ON PLANS.
- CONNECT EXIT SIGNS TO NEAREST UNSWITCHED EMERGENCY LIGHTING CIRCUIT SERVING CORRESPONDING AREA, UNLESS OTHERWISE INDICATED.
- CONNECT EXIT LIGHTS, EMERGENCY BATTERY INVERTERS, EMERGENCY BATTERY PACKS AND EMERGENCY BATTERY UNIT FIXTURES TO NEAREST UNSWITCHED NORMAL LIGHTING CIRCUIT SERVING CORRESPONDING AREA, UNLESS OTHERWISE INDICATED. CONNECT INVERTERS AND BATTERY PACKS SO THAT ASSOCIATED LUMINAIRES ARE CONTROLLED WITH OTHER LUMINAIRES IN THE SAME SPACE, AND ARE ENERGIZED UPON POWER FAILURE.
- UNLESS OTHERWISE INDICATED, CONNECT NORMAL RELOCATED LUMINAIRES TO EXISTING NORMAL CIRCUIT SERVING LUMINAIRES IN AREA. CONNECT EMERGENCY LUMINAIRES AND EXIT SIGNS UNSWITCHED TO EXISTING EMERGENCY CIRCUIT SERVING LUMINAIRES IN THIS AREA.
- ANY EXISTING DEVICES AND FACEPLATES THAT ARE EXISTING TO REMAIN, AND ARE NOT IVORY IN COLOR, SHALL BE REPLACED WITH IVORY DEVICE TO MATCH.

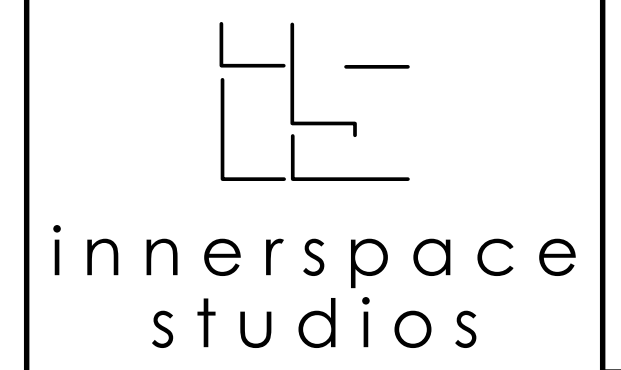
FIRE ALARM GENERAL NOTES:

- FIRE ALARM DEVICES ARE INDICATED SCHEMATICALLY FOR DESIGN INTENT. DEVICE QUANTITIES INDICATED ARE MINIMUM. PROVIDE ADDITIONAL DEVICES AS REQUIRED. FIRE ALARM SUPPLIER SHALL SELECT CANDELA RATINGS OF STROBES TO PROVIDE REQUIRED COVERAGE.
- EXISTING FIRE ALARM PANEL IS LOCATED IN LEVEL 6 ELECTRICAL ROOM.
- NEW FIRE ALARM DEVICES SHALL MATCH EXISTING, AND SHALL CONNECT INTO EXISTING FIRE ALARM SYSTEM. MODIFY EXISTING SYSTEM AS REQUIRED TO ACCOMMODATE NEW DEVICES.

FLAG NOTES

- RELOCATE LIGHT SWITCH AS SHOWN FOR CONTROL OF DOWNLIGHTS IN ENTRY.
- PROVIDE LIGHT SWITCH AS SHOWN FOR CONTROL OF SIGNAGE FIXTURE IN ENTRY.
- RELOCATE LIGHT SWITCH AS SHOWN FOR CONTROL OF OPEN OFFICE LIGHTING.
- PROVIDE 3-WAY SWITCH FOR CONTROL OF EXISTING FIXTURES IN CORRIDOR AS INDICATED.
- RELOCATE LIGHT SWITCH AS SHOWN FOR CONTROL OF EXISTING FIXTURES IN CORRIDOR AS INDICATED.
- RELOCATE LIGHT SWITCH AS SHOWN FOR CONTROL OF EXISTING OFFICE LIGHTING.

00003 - MPE (Frank Reida)
Lighting to meet IECC 2018



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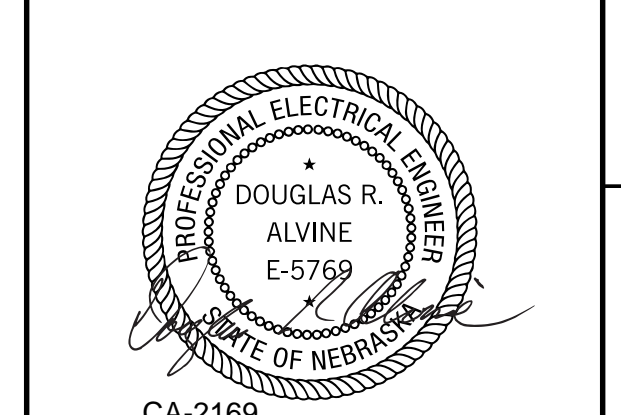
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Alvine Engineers
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Omaha, NE 68102
402-346-7007

Structural Engineer

Civil Engineer

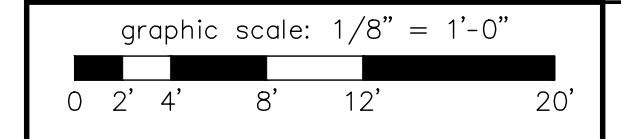


07/09/2024

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RELOCATE LIGHT SWITCH AS SHOWN FOR CONTROL OF DOWNLIGHTS IN ENTRY.
PROVIDE LIGHT SWITCH AS SHOWN FOR CONTROL OF SIGNAGE FIXTURE IN ENTRY.
RELOCATE LIGHT SWITCH AS SHOWN FOR CONTROL OF OPEN OFFICE LIGHTING.
PROVIDE 3-WAY SWITCH FOR CONTROL OF EXISTING FIXTURES IN CORRIDOR AS INDICATED.
RELOCATE LIGHT SWITCH AS SHOWN FOR CONTROL OF EXISTING FIXTURES IN CORRIDOR AS INDICATED.
RELOCATE LIGHT SWITCH AS SHOWN FOR CONTROL OF EXISTING OFFICE LIGHTING.



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Frankel Zacharia
Sixth Floor Remodel
11404 West Dodge Road
Omaha, NE 68154

Lighting & Fire Alarm Plan -
Base Bid and Alternate 1

Designed: arm Sheet No.
Drawn by: mrg
Reviewed:
Proj: 4955
E101

LIGHTING SCOPE - ALTERNATE 2

PROVIDE NEW LIGHT FIXTURES AND CONTROLS AS SHOWN. REUSE EXISTING LIGHTING CIRCUIT FOR EACH AREA.

LIGHTING GENERAL NOTES:

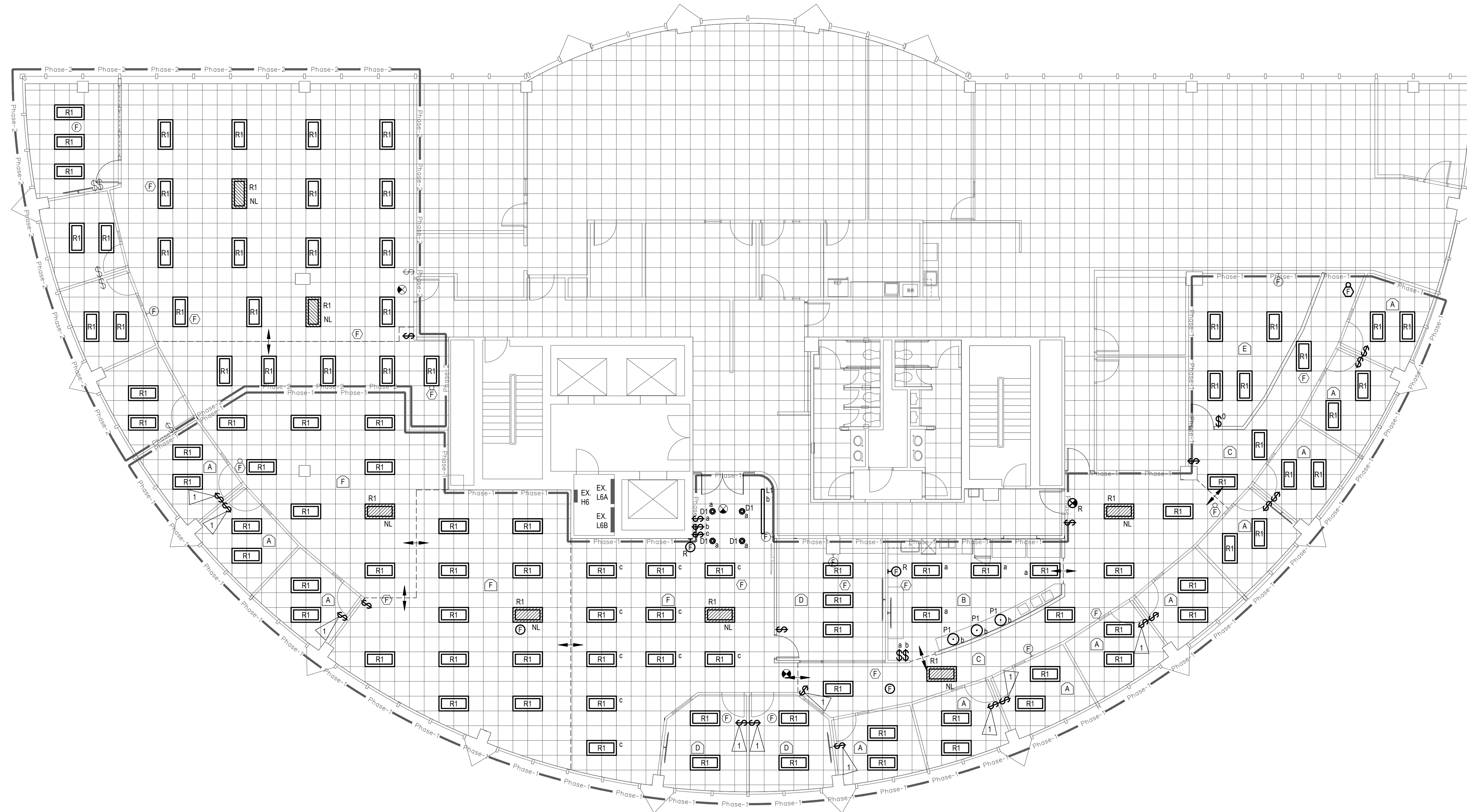
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- REFER TO ARCHITECTURAL REFLECTED CEILING PLANS FOR EXACT LUMINAIRE AND DEVICE LOCATIONS.
- REFER TO SHEET E000 FOR LIGHTING CIRCUIT AND ANNOTATION LEGEND.
- EMERGENCY LUMINAIRES REQUIRE ADDITIONAL CONTROL DEVICES WITH MULTIPLE CONNECTIONS SUCH AS UNSWITCHED NORMAL POWER, SWITCHED NORMAL POWER, AND UNSWITCHED EMERGENCY POWER. SEE LIGHTING CONTROL SCHEDULE FOR EMERGENCY LIGHTING RELAY REQUIREMENTS. VERIFY EXACT WIRING REQUIREMENTS WITH RELAYS PROVIDED. UPON NORMAL POWER FAILURE, CONTROL DEVICES SHALL CONNECT THE EMERGENCY POWER CIRCUIT REGARDLESS OF THE POSITION OF THE ASSOCIATED SWITCH. EMERGENCY LIGHTING UL924 RELAYS ARE NOT INDICATED ON PLANS.
- CONNECT EXIT SIGNS TO NEAREST UNSWITCHED EMERGENCY LIGHTING CIRCUIT SERVING CORRESPONDING AREA, UNLESS OTHERWISE INDICATED.
- CONNECT EXIT LIGHTS, EMERGENCY BATTERY INVERTERS, EMERGENCY BATTERY PACKS AND EMERGENCY BATTERY UNIT FIXTURES TO NEAREST UNSWITCHED NORMAL LIGHTING CIRCUIT SERVING CORRESPONDING AREA, UNLESS OTHERWISE INDICATED. CONNECT INVERTERS AND BATTERY PACKS SO THAT ASSOCIATED LUMINAIRES ARE CONTROLLED WITH OTHER LUMINAIRES IN THE SAME SPACE, AND ARE ENERGIZED UPON POWER FAILURE.
- UNLESS OTHERWISE INDICATED, CONNECT NORMAL RELOCATED LUMINAIRES TO EXISTING NORMAL CIRCUIT SERVING LUMINAIRES IN AREA. CONNECT EMERGENCY LUMINAIRES AND EXIT SIGNS UNSWITCHED TO EXISTING EMERGENCY CIRCUIT SERVING LUMINAIRES IN THIS AREA.
- ANY EXISTING DEVICES AND FACEPLATES THAT ARE EXISTING TO REMAIN, AND ARE NOT IVORY IN COLOR, SHALL BE REPLACED WITH IVORY DEVICE TO MATCH.

FIRE ALARM GENERAL NOTES:

- FIRE ALARM DEVICES ARE INDICATED SCHEMATICALLY FOR DESIGN INTENT. DEVICE QUANTITIES INDICATED ARE MINIMUM. PROVIDE ADDITIONAL DEVICES AS REQUIRED. FIRE ALARM SUPPLIER SHALL SELECT CANDELA RATINGS OF STROBES TO PROVIDE REQUIRED COVERAGE.
- EXISTING FIRE ALARM PANEL IS LOCATED IN LEVEL 6 ELECTRICAL ROOM.
- NEW FIRE ALARM DEVICES SHALL MATCH EXISTING, AND SHALL CONNECT INTO EXISTING FIRE ALARM SYSTEM. MODIFY EXISTING SYSTEM AS REQUIRED TO ACCOMMODATE NEW DEVICES.

FLAG NOTES

- REUSE EXISTING JUNCTION BOX AND PATHWAY FOR NEW LIGHT SWITCH.



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Structural Engineer

Civil Engineer

Civil Engineer

Civil Engineer

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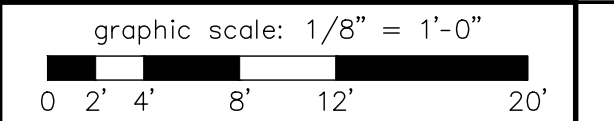
Civil Engineer

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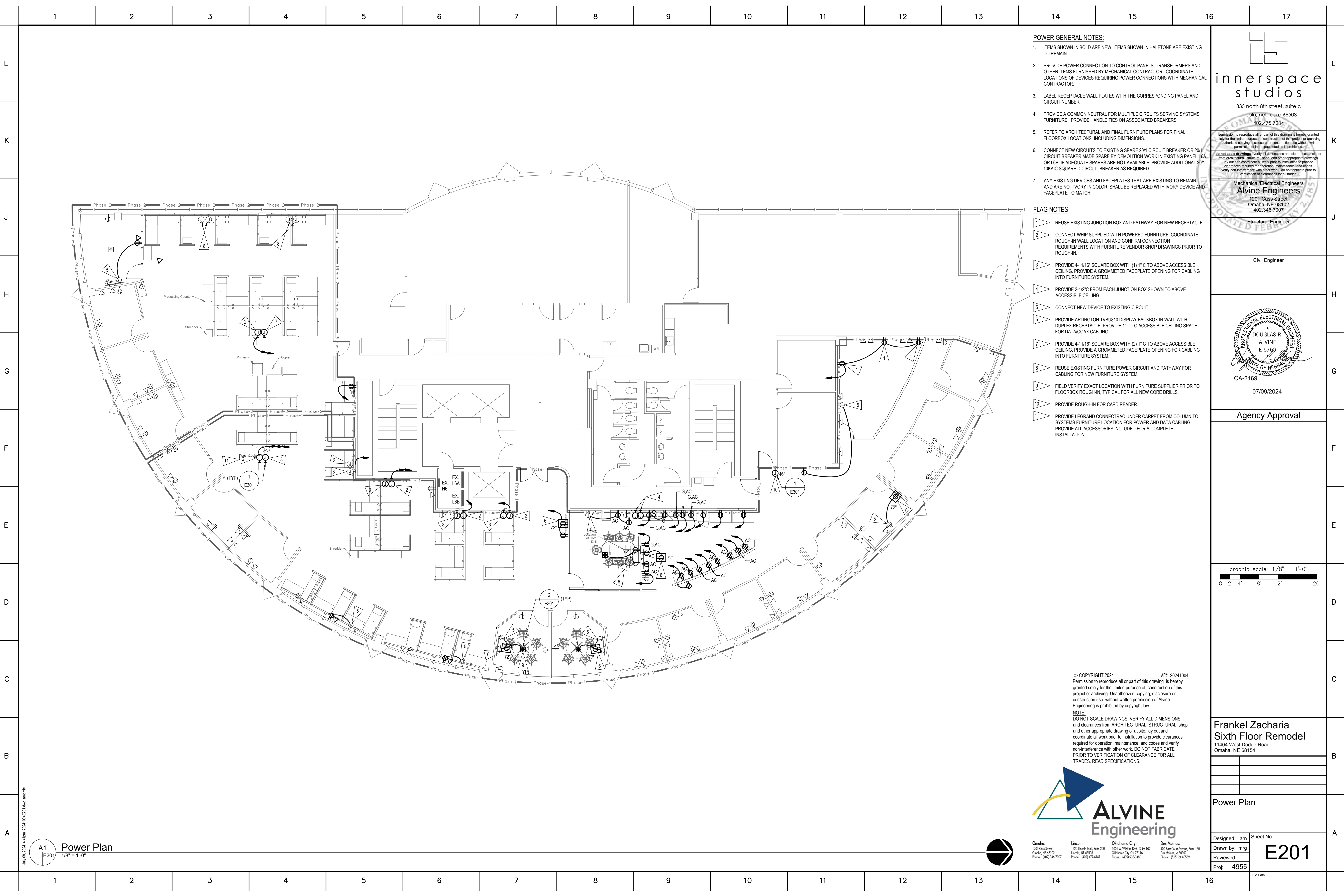
Lighting & Fire Alarm Plan -
Alternate 2

Designed: am Sheet No.
Drawn by: mrg
Reviewed:
Proj: 4955

E102

A1 Lighting and Fire Alarm Plan - Alternate 2
1/8" = 1'-0"

July 08, 2024, 4:41pm 20240602E102.dwg amr/afg



- POWER GENERAL NOTES:**
- ITEMS SHOWN IN BOLD ARE NEW. ITEMS SHOWN IN HALFTONE ARE EXISTING TO REMAIN.
 - PROVIDE POWER CONNECTION TO CONTROL PANELS, TRANSFORMERS AND OTHER ITEMS FURNISHED BY MECHANICAL CONTRACTOR. COORDINATE LOCATIONS OF DEVICES REQUIRING POWER CONNECTIONS WITH MECHANICAL CONTRACTOR.
 - LABEL RECEPTACLE WALL PLATES WITH THE CORRESPONDING PANEL AND CIRCUIT NUMBER.
 - PROVIDE A COMMON NEUTRAL FOR MULTIPLE CIRCUITS SERVING SYSTEMS FURNITURE. PROVIDE HANDLE TIES ON ASSOCIATED BREAKERS.
 - REFER TO ARCHITECTURAL AND FINAL FURNITURE PLANS FOR FINAL FLOORBOX LOCATIONS, INCLUDING DIMENSIONS.
 - CONNECT NEW CIRCUITS TO EXISTING SPARE 20/1 CIRCUIT BREAKER OR 20/1 CIRCUIT BREAKER MADE SPARE BY DEMOLITION WORK IN EXISTING PANEL L6A OR L6B. IF ADEQUATE SPARES ARE NOT AVAILABLE, PROVIDE ADDITIONAL 20/1 10KAIC SQUARE D CIRCUIT BREAKER AS REQUIRED.
 - ANY EXISTING DEVICES AND FACEPLATES THAT ARE EXISTING TO REMAIN, AND ARE NOT IVORY IN COLOR, SHALL BE REPLACED WITH IVORY DEVICE AND FACEPLATE TO MATCH.

- FLAG NOTES**
- REUSE EXISTING JUNCTION BOX AND PATHWAY FOR NEW RECEPTACLE.
 - CONNECT WHIP SUPPLIED WITH POWERED FURNITURE. COORDINATE ROUGH-IN WALL LOCATION AND CONFIRM CONNECTION REQUIREMENTS WITH FURNITURE VENDOR SHOP DRAWINGS PRIOR TO ROUGH-IN.
 - PROVIDE 4-11/16" SQUARE BOX WITH (1) 1" C TO ABOVE ACCESSIBLE CEILING. PROVIDE A GROMMETED FACEPLATE OPENING FOR CABLING INTO FURNITURE SYSTEM.
 - PROVIDE 2-1/2"C FROM EACH JUNCTION BOX SHOWN TO ABOVE ACCESSIBLE CEILING.
 - CONNECT NEW DEVICE TO EXISTING CIRCUIT.
 - PROVIDE ARLINGTON TVBUB10 DISPLAY BACKBOX IN WALL WITH DUPLEX RECEPTACLE. PROVIDE 1" C TO ACCESSIBLE CEILING SPACE FOR DATA/COAX CABLING.
 - PROVIDE 4-11/16" SQUARE BOX WITH (2) 1" C TO ABOVE ACCESSIBLE CEILING. PROVIDE A GROMMETED FACEPLATE OPENING FOR CABLING INTO FURNITURE SYSTEM.
 - REUSE EXISTING FURNITURE POWER CIRCUIT AND PATHWAY FOR CABLING FOR NEW FURNITURE SYSTEM.
 - FIELD VERIFY EXACT LOCATION WITH FURNITURE SUPPLIER PRIOR TO FLOORBOX ROUGH-IN, TYPICAL FOR ALL NEW CORE DRILLS.
 - PROVIDE ROUGH-IN FOR CARD READER.
 - PROVIDE LEGRAND CONNECTRAC UNDER CARPET FROM COLUMN TO SYSTEMS FURNITURE LOCATION FOR POWER AND DATA CABLING. PROVIDE ALL ACCESSORIES INCLUDED FOR A COMPLETE INSTALLATION.

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Structural Engineer

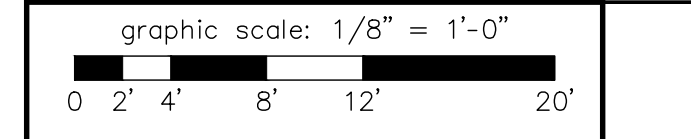
Civil Engineer

PROFESSIONAL ELECTRICAL ENGINEER
 DOUGLAS R. ALVINE
 E-5769
 STATE OF NEBRASKA
 CA-2169
 07/09/2024

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Frankel Zacharia
Sixth Floor Remodel
 11404 West Dodge Road
 Omaha, NE 68154

| | |
|------------------|-------------|
| Power Plan | Sheet No. |
| Designed by: arm | E201 |
| Drawn by: mrg | |
| Reviewed: | |
| Proj: 4955 | File Path: |

July 08, 2024, 4:41pm 2024062010.dwg arm@ae.com

| LUMINAIRE SCHEDULE | | | | | | | | | | | | | |
|--------------------|--|---------------|--|-------------|-----------|----------|----------------|------------------|---------|----------------|--------------|-------------------------|---------|
| MARK | DESCRIPTION | MANUFACTURER | CATALOG NO. | SOURCE DATA | | | COLOR TEMP (K) | DIMMING PROTOCOL | VOLTAGE | MOUNTING | FINISH | ALTERNATE MANUFACTURERS | REMARKS |
| | | | | LUMENS | LOAD (VA) | PER FOOT | | | | | | | |
| D1 | 4" DIAMETER RECESSED DOWNLIGHT | LITHONIA | LDN4-40/07-LO4AR-LD-MVOLT-210-90CRI | 654 | 8.5 | - | 4000 | 0-10V, 1% | MVOLT | RECESSED, GRID | | | |
| L1 | 6" LINEAR RECESSED WALL WASH | PEERLESS | OPRW-0-LOP-6FT-90CRI-40K-500-LMF-MINI-0-Z1-277 | 500 | - | 500 | 4000 | 0-10V, 1% | 277V | RECESSED, GRID | | | |
| P1 | ECHO LARGE PENDANT | TECH LIGHTING | 700TDEPCPS-LED927 | 707 | 10 | - | 2700 | 0-10V, 1% | 120 V | PENDANT | SATIN NICKEL | | |
| R1 | 2'X4' RECESSED LOW-PROFILE TROFFER | LITHONIA | ZBLT4-30L-ADSM-EZ1-LP940 | 3000 | 23 | - | 4000 | 0-10V, 1% | MVOLT | RECESSED, GRID | | | |
| X1 | SINGLE FACE EDGE LIT, RED ON MIRROR EXIT LIGHT | LITHONIA | LRP 1 RMR 120/277 | - | 2 | - | - | - | 277 V | UNIVERSAL | | | |
| X2 | DOUBLE FACE EDGE LIT, RED ON MIRROR EXIT LIGHT | LITHONIA | LRP 2 RMR 120/277 | - | 2 | - | - | - | 277 V | UNIVERSAL | | | |

GENERAL NOTES
a SEE SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.
b CONTRACTOR TO VERIFY LUMINAIRE CATALOG NUMBER AND INSTALLATION REQUIREMENTS PRIOR TO ORDERING.
c LUMINAIRE NUMBERS INDICATED WITH LETTER "E" SHALL BE PROVIDED WITH AN EMERGENCY BATTERY PACK.
d LISTED ALTERNATE MANUFACTURERS ARE PERMITTED TO BID AN EQUIVALENT LUMINAIRE WHICH COMPLIES WITH THE PRODUCT REQUIREMENTS IDENTIFIED IN THIS SCHEDULE AND THE SPECIFICATIONS WITHOUT SUBMITTING A PRIOR APPROVAL REQUEST. ALTERNATE LUMINAIRES WILL BE REVIEWED DURING THE SUBMITTAL PROCESS AND THE MANUFACTURER WILL BE RESPONSIBLE TO PROVIDE A LUMINAIRE WHICH MEETS THE PRODUCT REQUIREMENTS.
e ELECTRICAL CONTRACTOR SHALL PROVIDE THE SPECIFIED LUMINAIRES DEFINED WITHIN THIS SCHEDULE AND ASSOCIATED CONTRACT DOCUMENTS. IF REQUIRED, THE ELECTRICAL CONTRACTOR MAY UTILIZE MULTIPLE DISTRIBUTORS AND/OR DISTRIBUTORS MAY UTILIZE MULTIPLE LIGHTING MANUFACTURER REPRESENTATIVES TO COMPLY WITH THE CONTRACT DOCUMENTS FOR THIS PROJECT.

| FLOOR BOX AND POKE THRU SCHEDULE | | | | | | | | | | | | | | |
|----------------------------------|-----------|-----------|----------|--------------|-----------|---------|---------------------|------------|----|-------|---------------------------|------------|-------|---------|
| MARK | FLOOR BOX | POKE THRU | ON GRADE | MANUFACTURER | MODEL NO. | COVER | COMPARTMENTS (QTY.) | | | | CONDUIT (PER COMPARTMENT) | | | REMARKS |
| | | | | | | | POWER | VOICE/DATA | AV | SPARE | AV | VOICE/DATA | SPARE | |
| 1 | | X | | LEGRAND | 6ATC2BK | SURFACE | 1 | 1 | 1 | - | 1" | 1" | - | 1,2,3 |

GENERAL NOTES
a CONTRACTOR TO VERIFY CATALOG NUMBER AND INSULATION REQUIREMENTS PRIOR TO ORDERING.
b PROVIDE ACCESSORIES AS REQUIRED FOR DEVICE INSTALLATION. PROVIDE MANUFACTURER'S STANDARD BLANK PLATES AS REQUIRED FOR UNUSED BOX COMPARTMENTS.
c COORDINATE VOICE/DATA REQUIREMENTS WITH INSTALLING CONTRACTOR.
d UNLESS NOTED OTHERWISE, ROUTE LOW-VOLTAGE AND SPARE CONDUITS TO ABOVE ACCESSIBLE CEILING IN SAME ROOM AS THE FLOOR BOX/POKE THRU. TERMINATE WITH INSULATING BUSHINGS.
e COORDINATE EXACT LOCATION WITH ARCHITECT/OWNER.
f VERIFY FINISH/COLOR WITH ARCHITECT.

REMARKS
1 PROVIDE 1" AV CONDUIT FROM POKE-THRU TO DISPLAY. PROVIDE 1" DATA CONDUIT FROM POKE-THRU TO ACCESSIBLE CEILING ABOVE ROOM.
2 PROVIDE APPROPRIATE CONDUIT ATTACHMENT ACCESSORIES WITH POKE-THRU DEVICE FOR DATA AND AV COMPARTMENT.
3 VERIFY FINAL COVER FINISH WITH ARCHITECT PRIOR TO ORDERING.

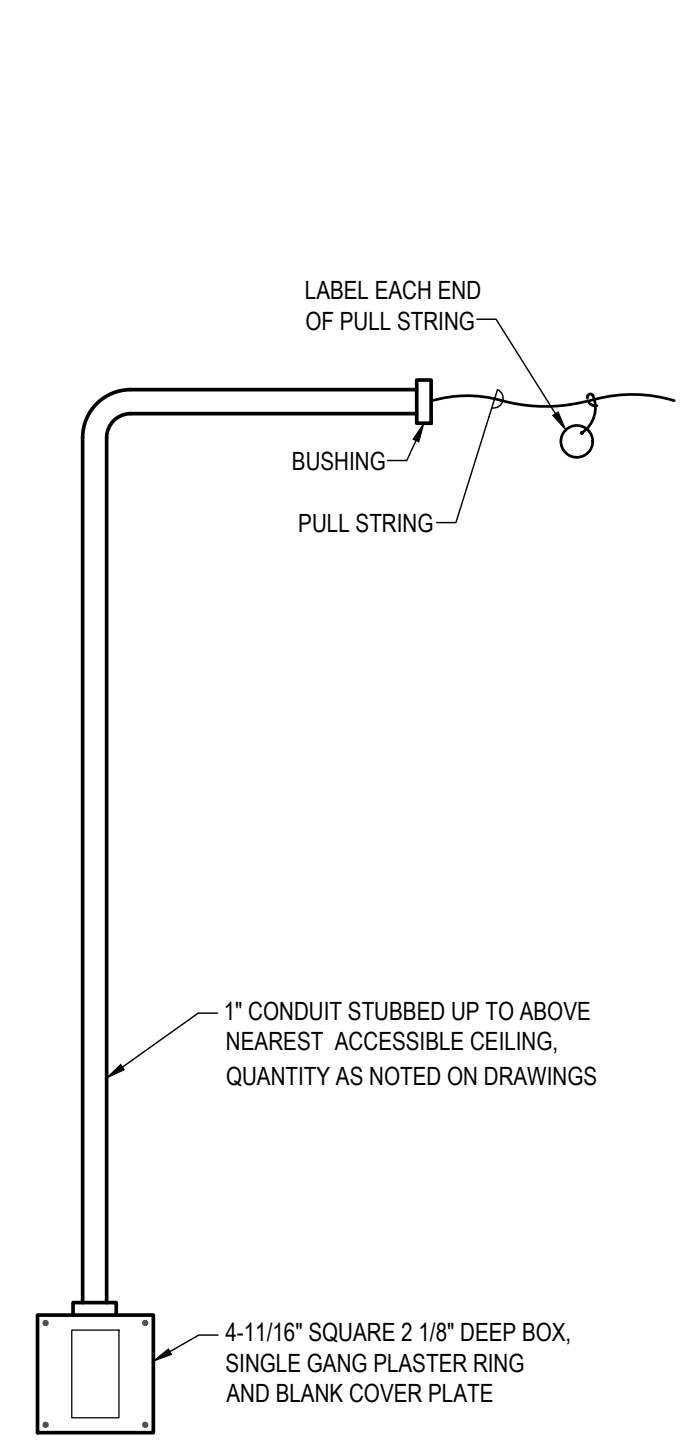
| LIGHTING CONTROL SCHEDULE | | | | | | | | | | |
|---------------------------|----------|------------------|---------|-----------------------------|--------------|---------|--|---------------------|-----------------|---------|
| MARK | MOUNTING | OCCUPANCY SENSOR | | | LOCAL ON/OFF | DIMMING | CONNECTED TO NETWORKED LIGHTING CONTROL SYSTEM | TIME OF DAY CONTROL | SPACE TYPE | REMARKS |
| | | MANUAL ON | AUTO ON | OCCUPANT DETECTION TIME-OUT | | | | | | |
| A | CEILING | X | - | 20 | X | X | - | - | OFFICE | |
| B | CEILING | - | 100% | 15 | X | X | - | - | BREAK | |
| C | CEILING | - | 100% | 20 | X | X | - | - | CORRIDOR | |
| D | CEILING | X | - | 20 | X | X | - | - | CONFERENCE ROOM | |
| E | CEILING | X | - | 5 | X | - | - | - | STORAGE ROOM | |
| F | CEILING | - | 100% | 20 | X | - | - | - | OPEN OFFICE | |

GENERAL NOTES
a SEE LOW VOLTAGE SWITCH SCHEDULE FOR SWITCH/CONTROL REQUIREMENTS.
b LIGHTING CONTROL DEVICES (WITH THE EXCEPTION OF SWITCHES) ARE NOT INDICATED ON LIGHTING PLANS. LIGHTING CONTROL SCHEDULE INDICATES CONTROL INTENT. PROVIDE SENSORS AND RELATED EQUIPMENT AS REQUIRED FOR COMPLETE COVERAGE AND CONTROL SCHEMES. SUBMIT SHOP DRAWINGS INDICATING DEVICE LAYOUT AND CIRCUITING. SEE SPECIFICATIONS.
c EMERGENCY LUMINAIRES IDENTIFIED AS NIGHT LIGHTING (NL) SHALL BE CONNECTED UNSWITCHED TO THE INDICATED EMERGENCY POWER CIRCUIT.
d EMERGENCY LIGHTING CONTROL:
(1) UNLESS INDICATED AS A NIGHTLIGHT (NL), EMERGENCY LIGHTING SHALL:
- BE PROVIDED WITH AN EMERGENCY RELAY FOR EACH LIGHTING CONTROL ZONE. RELAY SHALL BE COMPATIBLE WITH DIMMING CONTROLS.
- BE CONTROLLED WITH THE NORMAL LUMINAIRES OF THE SAME ZONE WHEN NORMAL POWER IS PRESENT.
(2) PROVIDE A UL1008 RELAY (BRANCH CIRCUIT EMERGENCY LIGHTING TRANSFER SWITCH) WHERE INDICATED ON THE PLANS FOR LUMINAIRES ON EMERGENCY POWER.
(3) PROVIDE A UL924 RELAY (AUTOMATIC LOAD CONTROL RELAY) FOR REMAINING APPLICATIONS.

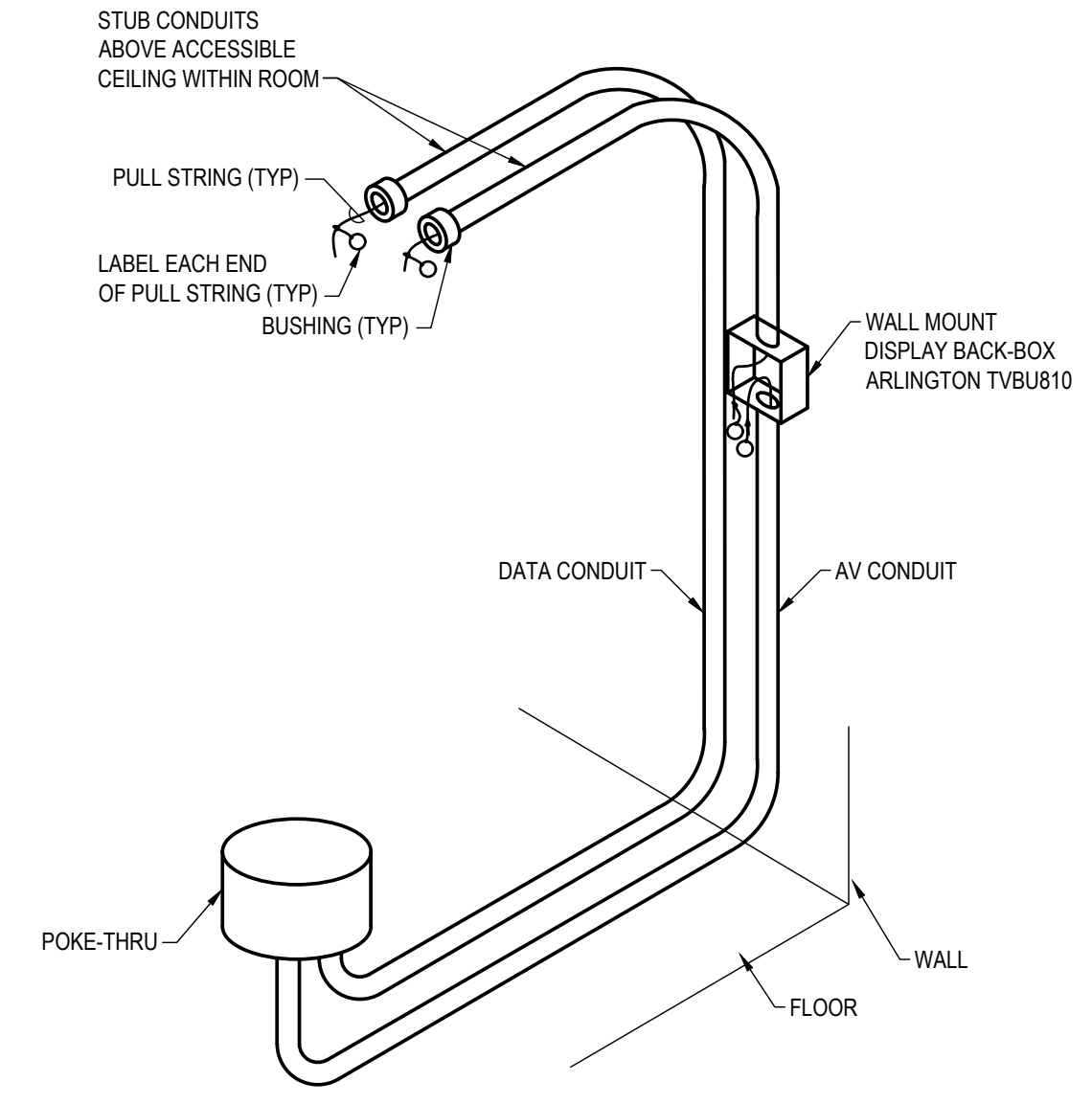
| LOW VOLTAGE SWITCH SCHEDULE | | | | | |
|-----------------------------|-------------------------|--------------------------|-----------------------|------------------------------|---------|
| SWITCH NUMBER | MINIMUM BUTTON QUANTITY | BUTTON ENGRAVED LABEL | ROOM ZONES CONTROLLED | FUNCTION | REMARKS |
| \$ | 3 | ON/OFF RAISE LOWER | SEE PLANS | ON/OFF DIM UP DIM DOWN | |
| \$0 | 1 | ON/OFF | SEE PLANS | ON/OFF | |

GENERAL NOTES
a PROVIDE EACH LOW-VOLTAGE SWITCH WITH PRE-ENGRAVED FACTORY LABELED BUTTONS INDICATING FUNCTION. WHERE MULTIPLE SWITCHES ARE GROUPED IN A SINGLE LOCATION OR FACEPLATE, PROVIDE ENGRAVED FACEPLATE INDICATING ZONE OR SPACE CONTROLLED.
b EACH SPACE SHALL HAVE MINIMUM OF ONE ZONE OF CONTROL. WHERE MORE THAN ONE LIGHTING ZONE IS PRESENT, LOWERCASE LETTERING INDICATES SEPARATE LIGHTING ZONE WITHIN A ROOM.
c DIMMING CONTROLS ON SCENE CONTROLLERS SHALL BE CAPABLE OF CONTROLLING ALL ZONES WITHIN SPACE.
d VERIFY INTEGRAL WALL SWITCH OCCUPANCY SENSOR REQUIREMENTS WITH LIGHTING CONTROL SCHEDULE.

REMARKS



COMMUNICATIONS ROUGH-IN
NO SCALE



NOTES
1. REFER TO POKE-THRU SCHEDULE FOR ADDITIONAL INFORMATION ON POKE-THRU REQUIREMENTS.
2. REFER TO POKE-THRU SCHEDULES FOR CONDUIT SIZE REQUIREMENTS.

POKE-THRU TO CEILING ROUGH-IN WITH DISPLAY ROUGH-IN
NO SCALE

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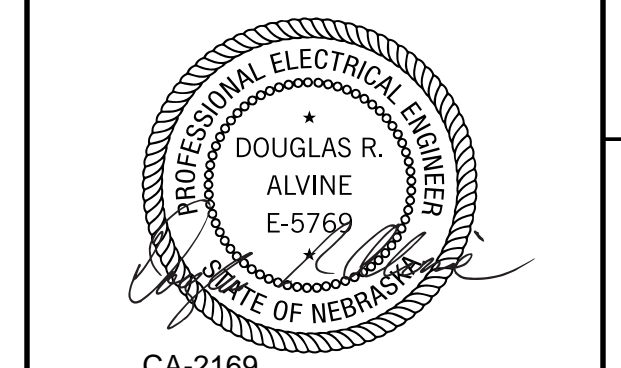


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Mechanical/Electrical Engineers
Alvine Engineers
1201 Cass Street
Omaha, NE 68102
402-346-7007

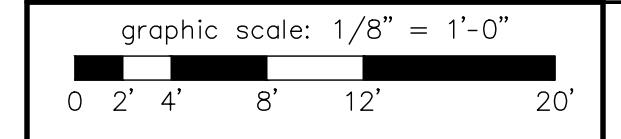
Structural Engineer

Civil Engineer



07/09/2024

Agency Approval



Frankel Zacharia
Sixth Floor Remodel
11404 West Dodge Road
Omaha, NE 68154

Electrical Schedules & Details

Designed by: arm
Drawn by: mrg
Reviewed:
Proj: 4955

Sheet No.
E301

July 08, 2024 4:41pm 20240608E301.dwg amw/ab

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| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | |
| L | <p>10. LOCATE JUNCTION AND PULL BOXES AS INDICATED, AS REQUIRED TO FACILITATE INSTALLATION OF CONDUCTORS, AND TO LIMIT CONDUIT LENGTH AND/OR NUMBER OF BENDS BETWEEN PULLING POINTS IN ACCORDANCE WITH SECTION 26 0533.13.</p> <p>11. LOCATE JUNCTION AND PULL BOXES IN THE FOLLOWING AREAS, UNLESS OTHERWISE INDICATED OR APPROVED BY THE ARCHITECT:</p> <ul style="list-style-type: none"> a. CONCEALED ABOVE ACCESSIBLE SUSPENDED CEILINGS. b. WITHIN JOISTS IN UNFINISHED AREAS WITH NO CEILING. c. ELECTRICAL ROOMS. | | | | | | | | | | | | | | | | | |
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2.3 WALL PUSHBUTTON STATIONS

A. GENERAL REQUIREMENTS: LOW VOLTAGE, QUIET OPERATING, TYPES AS INDICATED ON DRAWINGS, COMPATIBLE WITH LOAD TYPES BEING CONTROLLED. PROVIDE FACTORY LABELED PUSHBUTTONS.

B. PROVIDE DEVICES AND PLATES WITH FINISHES MATCHING WIRING DEVICES.

2.4 OCCUPANCY SENSORS

A. ALL OCCUPANCY SENSORS:

- PROVIDE THE FOLLOWING TYPE OF SENSOR PER AREA, UNLESS INDICATED OTHERWISE:
 - OFFICES: DUAL TECHNOLOGY.
 - CORRIDORS: PASSIVE INFRARED.
 - OTHER AREAS: AS RECOMMENDED BY MANUFACTURER.
- DESCRIPTION: FACTORY-ASSEMBLED COMMERCIAL SPECIFICATION GRADE DEVICES FOR INDOOR USE, CAPABLE OF SENSING BOTH MAJOR MOTION, SUCH AS WALKING, AND MINOR MOTION, SUCH AS SMALL DESKTOP LEVEL MOVEMENTS, ACCORDING TO PUBLISHED COVERAGE AREAS, FOR AUTOMATIC CONTROL OF LOAD INDICATED.
- PROVIDE LED TO VISUALLY INDICATE MOTION DETECTION.
- OPERATION: UNLESS OTHERWISE INDICATED, OCCUPANCY SENSOR TO TURN LOAD ON WHEN OCCUPANT PRESENCE IS DETECTED AND TO TURN LOAD OFF WHEN NO OCCUPANT PRESENCE IS DETECTED DURING AN ADJUSTABLE TURN-OFF DELAY TIME INTERVAL.
- DUAL TECHNOLOGY OCCUPANCY SENSORS: FIELD CONFIGURABLE TURN-ON AND HOLD-ON ACTIVATION WITH SETTINGS FOR ACTIVATION BY EITHER OR BOTH SENSING TECHNOLOGIES.
- PASSIVE INFRARED LENS FIELD OF VIEW: FIELD CUSTOMIZABLE BY ADDITION OF FACTORY MASKING MATERIAL, ADJUSTMENT OF INTEGRAL BLINDERS, OR SIMILAR MEANS TO BLOCK MOTION DETECTION IN SELECTED AREAS.
- TURN-OFF DELAY: FIELD ADJUSTABLE, WITH TIME DELAY SETTINGS UP TO 30 MINUTES.
- SENSITIVITY: FIELD ADJUSTABLE.
- COMPATIBILITY (NON-DIMMING SENSORS): SUITABLE FOR CONTROLLING INCANDESCENT LIGHTING, LOW-VOLTAGE LIGHTING WITH ELECTRONIC AND MAGNETIC TRANSFORMERS, FLUORESCENT LIGHTING WITH ELECTRONIC AND MAGNETIC BALLASTS, AND FRACTIONAL MOTOR LOADS, WITH NO MINIMUM LOAD REQUIREMENTS.
- LOAD RATING FOR LINE VOLTAGE OCCUPANCY SENSORS: AS REQUIRED TO CONTROL THE LOAD INDICATED ON DRAWINGS.
- ISOLATED RATING FOR LOW VOLTAGE OCCUPANCY SENSORS: WHERE INDICATED, SPDT DRY CONTACTS, RATINGS AS REQUIRED FOR INTERFACE WITH SYSTEM INDICATED.

B. CEILING MOUNTED OCCUPANCY SENSORS:

- ALL CEILING MOUNTED OCCUPANCY SENSORS:
 - DESCRIPTION: LOW PROFILE OCCUPANCY SENSORS DESIGNED FOR CEILING INSTALLATION.
 - OCCUPANCY SENSOR TO BE FIELD SELECTABLE AS EITHER MANUAL-ON/AUTOMATIC-OFF OR AUTOMATIC ON/OFF.
 - FINISH: WHITE UNLESS OTHERWISE INDICATED.
- PASSIVE INFRARED (PIR) CEILING MOUNTED OCCUPANCY SENSORS:
 - STANDARD RANGE SENSORS: CAPABLE OF DETECTING MOTION WITHIN AN AREA OF 450 SQUARE FEET AT A MOUNTING HEIGHT OF 9 FEET, WITH A FIELD OF VIEW OF 360 DEGREES.
 - EXTENDED RANGE SENSORS: CAPABLE OF DETECTING MOTION WITHIN AN AREA OF 1,200 SQUARE FEET AT A MOUNTING HEIGHT OF 9 FEET, WITH A FIELD OF VIEW OF 360 DEGREES.
 - ULTRASONIC CEILING MOUNTED OCCUPANCY SENSORS:
 - STANDARD RANGE SENSORS: CAPABLE OF DETECTING MOTION WITHIN AN AREA OF 500 SQUARE FEET AT A MOUNTING HEIGHT OF 9 FEET, WITH A FIELD OF VIEW OF 360 DEGREES.
 - MEDIUM RANGE SENSORS: CAPABLE OF DETECTING MOTION WITHIN AN AREA OF 1,000 SQUARE FEET AT A MOUNTING HEIGHT OF 9 FEET, WITH A FIELD OF VIEW OF 360 DEGREES.
 - EXTENDED RANGE SENSORS: CAPABLE OF DETECTING MOTION WITHIN AN AREA OF 2,000 SQUARE FEET AT A MOUNTING HEIGHT OF 9 FEET.
- PASSIVE INFRARED/ULTRASONIC DUAL TECHNOLOGY CEILING MOUNTED OCCUPANCY SENSORS:
 - STANDARD RANGE SENSORS: CAPABLE OF DETECTING MOTION WITHIN AN AREA OF 450 SQUARE FEET AT A MOUNTING HEIGHT OF 9 FEET, WITH A FIELD OF VIEW OF 360 DEGREES.
 - EXTENDED RANGE SENSORS: CAPABLE OF DETECTING MOTION WITHIN AN AREA OF 1,200 SQUARE FEET AT A MOUNTING HEIGHT OF 9 FEET, WITH A FIELD OF VIEW OF 360 DEGREES.
 - PASSIVE INFRARED/ACOUSTIC DUAL TECHNOLOGY CEILING MOUNTED OCCUPANCY SENSORS:
 - STANDARD RANGE SENSORS: CAPABLE OF DETECTING MOTION WITHIN AN AREA OF 450 SQUARE FEET AT A MOUNTING HEIGHT OF 9 FEET, WITH A FIELD OF VIEW OF 360 DEGREES.
 - EXTENDED RANGE SENSORS: CAPABLE OF DETECTING MOTION WITHIN AN AREA OF 1,200 SQUARE FEET AT A MOUNTING HEIGHT OF 9 FEET.

3. LOCATE SENSORS SO THAT COVERAGE DOES NOT EXTEND BEYOND THE AREA CONTROLLED.

J. UNLESS OTHERWISE INDICATED, INSTALL POWER PACKS FOR LIGHTING CONTROL DEVICES ABOVE ACCESSIBLE CEILING NEAR THE SENSOR LOCATION.

K. WHERE INDICATED, INSTALL SEPARATE COMPATIBLE WALL SWITCHES FOR MANUAL CONTROL, INTERFACE WITH LIGHTING CONTROL DEVICES OR ASSOCIATED POWER PACKS.

L. UNLESS OTHERWISE INDICATED, INSTALL LOW VOLTAGE CONTROL CABLING IN CONDUIT IN AREAS WITH EXPOSED STRUCTURE AND ABOVE INACCESSIBLE CEILINGS.

M. LOW VOLTAGE CONTROL CABLING MAY BE INSTALLED WITHOUT CONDUIT WHERE CONCEALED ABOVE AN ACCESSIBLE CEILING. FOR WALL-MOUNTED DEVICES, PROVIDE CONDUIT STUBBED TO ABOVE THE NEAREST ACCESSIBLE CEILING. ROUTE CABLING PARALLEL OR PERPENDICULAR TO BUILDING STRUCTURE OR SURFACES. SUPPORT USING J-HOOK CABLE HANGERS OR PLENUM RATED CABLE TIES ATTACHED TO CONDUIT SUPPORTS OR TO BRANCH CIRCUIT CONDUITS AS ALLOWED BY CODE. LOCATE SUPPORTS WITH A MAXIMUM SPACING OF 10 FEET. DO NOT SUPPORT FROM PIPING, DUCTWORK OR OTHER SYSTEMS. DO NOT PROVIDE SUPPORT FROM CEILING GRID OR ALLOW CONDUCTORS AND CABLES TO LAY ON CEILING TILES.

3.2 SYSTEM STARTUP AND PROGRAMMING

A. COORDINATE SYSTEM PROGRAMMING AND DEVICE ENGRAVING WITH OWNER.

B. PROVIDE FACTORY STARTUP AND PROGRAMMING OF SYSTEM. PROGRAM ACCORDING TO OWNER'S REQUIREMENTS.

C. COORDINATE HIGH END AND/OR LOW END TRIM LEVELS WITH OWNER AND ARCHITECT/ENGINEER DURING SYSTEM PROGRAMMING.

3.3 FUNCTIONAL PERFORMANCE TESTING

A. PRIOR TO FINAL INSPECTION, PERFORM FUNCTIONAL PERFORMANCE TESTING AND SUBMIT DOCUMENTATION TO THE ARCHITECT/ENGINEER THAT CONTROL HARDWARE AND SOFTWARE ARE CALIBRATED, ADJUSTED, PROGRAMMED AND IN PROPER WORKING CONDITION IN ACCORDANCE WITH THE CONSTRUCTION DOCUMENTS AND MANUFACTURER'S INSTRUCTIONS.

- OCCUPANCY SENSOR CONTROLS.
 - CERTIFY THAT EACH OCCUPANCY SENSOR HAS BEEN LOCATED AND AIMED IN ACCORDANCE WITH MANUFACTURER RECOMMENDATIONS
 - TEST EACH OCCUPANCY SENSOR
 - VERIFY THE FOLLOWING:
 - WHERE INCLUDED, STATUS INDICATORS OPERATE CORRECTLY.
 - THE CONTROLLED LIGHTS TURN OFF OR DOWN TO THE PERMITTED LEVEL WITHIN THE REQUIRED TIME.
 - FOR AUTO-ON OCCUPANCY SENSOR CONTROLS, THE LIGHTS TURN ON TO THE PERMITTED LEVEL WHEN AN OCCUPANT ENTERS THE SPACE.
 - FOR MANUAL-ON OCCUPANCY SENSOR CONTROLS, THE LIGHTS TURN ON ONLY WHEN MANUALLY ACTIVATED.
 - THE LIGHTS ARE NOT INCORRECTLY TURNED ON BY MOVEMENT IN ADJACENT AREAS OR BY HVAC OPERATION.
- PROVIDE A REPORT OF THE TEST RESULTS. INCLUDE THE FOLLOWING:
 - RESULTS OF FUNCTIONAL PERFORMANCE TESTS.
 - DISPOSITION OF DEFICIENCIES FOUND DURING TESTING, INCLUDING DETAILS OF CORRECTIVE MEASURES USED OR PROPOSED.

3.4 CLOSEOUT ACTIVITIES

A. TRAINING: TRAIN OWNER'S PERSONNEL ON OPERATION, ADJUSTMENT, PROGRAMMING, AND MAINTENANCE OF LIGHTING CONTROL DEVICES.

- USE OPERATION AND MAINTENANCE MANUAL AS TRAINING REFERENCE, SUPPLEMENTED WITH ADDITIONAL TRAINING MATERIALS AS REQUIRED.
- PROVIDE MINIMUM OF TWO HOURS OF TRAINING.
- INSTRUCTOR: MANUFACTURER'S AUTHORIZED SERVICE REPRESENTATIVE.
- LOCATION: AT PROJECT SITE.

3.5 MAINTENANCE

A. OCCUPANCY ADJUSTMENTS: WITHIN ONE YEAR OF SUBSTANTIAL COMPLETION, PROVIDE ON-SITE ASSISTANCE BY A MANUFACTURER'S AUTHORIZED SERVICE REPRESENTATIVE TO MAKE SYSTEM ADJUSTMENTS OR TO PROVIDE TRAINING. PROVIDE THREE VISITS, AT APPROXIMATELY THREE, SIX AND TWELVE MONTHS AFTER SUBSTANTIAL COMPLETION FOR THIS PURPOSE.

END OF SECTION

SECTION 26 2726

WIRING DEVICES

A. COORDINATE LOCATIONS OF OUTLET BOXES PROVIDED UNDER SECTION 26 0533.16 AS REQUIRED FOR INSTALLATION OF WIRING DEVICES PROVIDED UNDER THIS SECTION.

- PROVIDE MINIMUM OF 24 INCHES HORIZONTAL SEPARATION BETWEEN FLUSH MOUNTED OUTLET BOXES INSTALLED ON OPPOSITE SIDES OF FIRE RATED WALLS.
- WHERE MULTIPLE DEVICES ARE INSTALLED AT THE SAME LOCATION AND AT THE SAME MOUNTING HEIGHT, GANG DEVICES TOGETHER UNDER A COMMON WALL PLATE.

B. INSTALL WIRING DEVICES IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS.

C. INSTALL PERMANENT BARRIER BETWEEN GANGED WIRING DEVICES WHEN VOLTAGE BETWEEN ADJACENT DEVICES EXCEEDS 300 V.

D. WHERE REQUIRED, CONNECT WIRING DEVICES USING PIGTAILS NOT LESS THAN 6 INCHES LONG. DO NOT CONNECT MORE THAN ONE CONDUCTOR TO WIRING DEVICE TERMINALS.

E. CONNECT WIRING DEVICES BY WRAPPING CONDUCTOR CLOCKWISE 3/4 TURN AROUND SCREW TERMINAL AND TIGHTENING TO PROPER TORQUE SPECIFIED BY THE MANUFACTURER OR BY USING SCREW-ACTUATED PRESSURE PLATE, WHERE PRESENT. DO NOT USE PUSH-IN PRESSURE TERMINALS THAT DO NOT RELY ON SCREW-ACTUATED BINDING.

F. UNLESS OTHERWISE INDICATED, CONNECT WIRING DEVICE GROUNDING TERMINAL TO BRANCH CIRCUIT EQUIPMENT GROUNDING CONDUCTOR AND TO OUTLET BOX WITH BONDING JUMPER.

G. PROVIDE GFCI RECEPTACLES WITH INTEGRAL GFCI PROTECTION AT EACH LOCATION INDICATED. DO NOT USE FEED-THROUGH WIRING TO PROTECT DOWNSTREAM DEVICES UNLESS OTHERWISE INDICATED.

H. INSTALL WIRING DEVICES PLUMB AND LEVEL WITH MOUNTING YOKE HELD RIGIDLY IN PLACE.

I. INSTALL WALL SWITCHES WITH OFF POSITION DOWN.

J. INSTALL VERTICALLY MOUNTED RECEPTACLES WITH GROUNDING POLE ON BOTTOM.

K. INSTALL WALL PLATES TO FIT COMPLETELY FLUSH TO WALL WITH NO GAPS AND ROUGH OPENING COMPLETELY COVERED WITHOUT STRAIN ON WALL PLATE. REPAIR OR REINSTALL IMPROPERLY INSTALLED OUTLET BOXES OR IMPROPERLY SIZED ROUGH OPENINGS. DO NOT USE OVERSIZED WALL PLATES IN LIEU OF MEETING THIS REQUIREMENT.

L. INSTALL BLANK WALL PLATES ON JUNCTION BOXES AND ON OUTLET BOXES WITH NO WIRING DEVICES INSTALLED OR DESIGNATED FOR FUTURE USE.

M. INSTALL GALVANIZED STEEL PLATES ON OUTLET BOXES AND JUNCTION BOXES IN UNFINISHED AREAS AND ABOVE ACCESSIBLE CEILINGS.

END OF SECTION

SECTION 26 5100

INTERIOR LIGHTING

B. DIMMABLE LED DRIVERS:

- DIMMING RANGE: CONTINUOUS DIMMING FROM 100 PERCENT TO TEN PERCENT RELATIVE LIGHT OUTPUT UNLESS DIMMING CAPABILITY TO LOWER LEVEL IS INDICATED, WITHOUT FLICKER.
- CONTROL COMPATIBILITY: FULLY COMPATIBLE WITH THE DIMMING CONTROLS TO BE INSTALLED.

2.4 ACCESSORIES

A. PROVIDE ACCESSORIES AND FITTINGS AS RECOMMENDED BY THE MANUFACTURER TO PROPERLY AND COMPLETELY INSTALL AND WIRE LUMINAIRES.

B. PROVIDE ACCESSORY PLASTER FRAMES AS REQUIRED, DESIGNED AND FINISHED TO PRECLUDE THE POSSIBILITY OF RUST STAINS ON SURROUNDING SURFACES.

C. FITTURE WHIPS: FLEXIBLE WHIPS INCLUDING PHASE, NEUTRAL AND GROUNDING CONDUCTORS, #18 AWG MINIMUM, MINIMUM LENGTH, 4 FEET; MAXIMUM LENGTH, 6 FEET, UNLESS OTHERWISE INDICATED.

PART 3 EXECUTION

3.1 INSTALLATION

A. VERIFY CEILING AND WALL DETAILS FROM GENERAL CONSTRUCTION DOCUMENTS PRIOR TO ORDERING LUMINAIRES. PROVIDE PROPER MOUNTING ACCESSORIES FOR THE INTENDED INSTALLATION. INSTALL FIXTURE TRIM TIGHT TO SURROUNDING SURFACES. SECURE TO PREVENT MOVEMENT.

B. COORDINATE LOCATIONS OF OUTLET BOXES PROVIDED UNDER SECTION 26 0533.16 AS REQUIRED FOR INSTALLATION OF LUMINAIRES PROVIDED UNDER THIS SECTION.

C. PERFORM WORK IN ACCORDANCE WITH NECA 1 (GENERAL WORKMANSHIP).

D. INSTALL PRODUCTS IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS.

E. INSTALL LUMINAIRES SECURELY, IN A NEAT AND WORKMANLIKE MANNER, AS SPECIFIED IN NECA 500 (COMMERCIAL LIGHTING) AND NECA 502 (INDUSTRIAL LIGHTING).

F. PROVIDE REQUIRED SUPPORT AND ATTACHMENT IN ACCORDANCE WITH SECTION 26 0529.

G. INSTALL LUMINAIRE PLUMB AND SQUARE AND ALIGNED WITH BUILDING LINES AND WITH ADJACENT LUMINAIRES.

H. SUSPENDED CEILING MOUNTED LUMINAIRES:

- DO NOT USE CEILING TILES TO BEAR WEIGHT OF LUMINAIRES.
- SUPPORT LUMINAIRES FROM GRID. PROVIDE ADDITIONAL SUPPORTS OR SUPPORT CLIPS AS REQUIRED.
- DO NOT USE CEILING SUPPORT SYSTEM TO BEAR WEIGHT OF LUMINAIRES UNLESS CEILING SUPPORT SYSTEM IS CERTIFIED AS SUITABLE TO DO SO.
- LUMINAIRES SMALLER THAN GRID OPENINGS: CENTER IN ACOUSTICAL PANELS UNLESS OTHERWISE INDICATED ON REFLECTED CEILING PLAN. PROVIDE SUPPORTING MEMBERS AS REQUIRED.

I. RECESSED LUMINAIRES:

- INSTALL TRIMS TIGHT TO MOUNTING SURFACE WITH NO VISIBLE LIGHT LEAKAGE.

J. INSTALL ACCESSORIES FURNISHED WITH EACH LUMINAIRE.

K. MAKE WIRING CONNECTIONS TO BRANCH CIRCUIT USING BUILDING WIRE WITH INSULATION SUITABLE FOR TEMPERATURE CONDITIONS WITHIN FIXTURE.

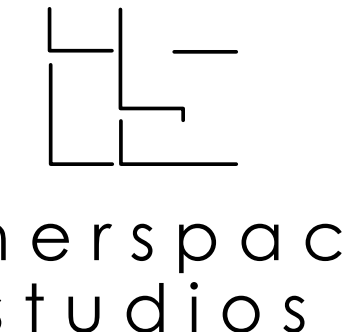
L. FITTURE WHIPS:

- USE FOR RECESSED LUMINAIRES INSTALLED IN AN ACCESSIBLE CEILING.
- ANCHOR ACCORDING TO CODE.
- INSTALL BETWEEN EACH FITTURE AND A JUNCTION BOX LOCATED ABOVE THE CEILING. WIRE FROM FITTURE TO FITTURE ONLY FOR TANDEM BALLAST INSTALLATIONS.

M. BOND PRODUCTS AND METAL ACCESSORIES TO BRANCH CIRCUIT EQUIPMENT GROUNDING CONDUCTOR.

N. REMOTE BALLASTS AND DRIVERS: INSTALL IN ACCESSIBLE LOCATION AS INDICATED OR AS REQUIRED TO COMPLETE INSTALLATION, USING CONDUCTORS PER MANUFACTURER'S RECOMMENDATIONS NOT EXCEEDING MANUFACTURER'S RECOMMENDED MAXIMUM CONDUCTOR LENGTH TO LUMINAIRE.

END OF SECTION



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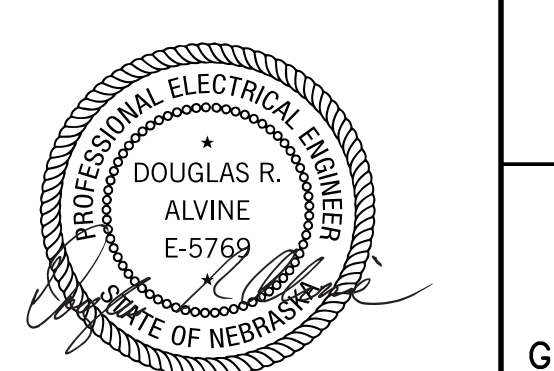
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do not scale drawings. verify all dimensions and clearances at site or from architectural, structural, shop, and other appropriate drawings. lay out and coordinate all work prior to installation to provide clearances required for operation, maintenance, and codes. verify non-interference with other work. do not fabricate prior to verification of clearances for all trades.

Mechanical/Electrical Engineers
Alvine Engineers
1201 Cass Street
Omaha, NE 68102
402-348-7007

Structural Engineer

Civil Engineer



CA-2169

07/09/2024

Agency Approval

1.1 SECTION INCLUDES

A. OCCUPANCY SENSORS.

B. WALL PUSHBUTTON STATIONS.

1.2 SUBMITTALS

A. PRODUCT DATA: INCLUDE RATINGS, CONFIGURATIONS, STANDARD WIRING DIAGRAMS, DIMENSIONS, COLORS, SERVICE CONDITION REQUIREMENTS, AND INSTALLED FEATURES OF PRODUCTS BEING PROVIDED.

B. SHOP DRAWINGS:

- PROVIDE LIGHTING PLAN, DRAWN TO SCALE, INDICATING LOCATION, MODEL NUMBER, AND ORIENTATION OF EACH DEVICE BEING PROVIDED.
- PUSHBUTTON STATIONS: PROVIDE ELEVATION OF EACH UNIQUE PUSHBUTTON STATION INDICATING BUTTON LABELING.
- INTERCONNECTION DIAGRAM OF FIELD INSTALLED WIRING.

C. FUNCTIONAL PERFORMANCE TESTING REPORTS.

D. OPERATION AND MAINTENANCE DATA: SUBMIT WITHIN 90 DAYS OF RECEIPT OF THE CERTIFICATE OF OCCUPANCY. INCLUDE THE FOLLOWING:

- NAME AND ADDRESS OF NOT LESS THAN ONE SERVICE AGENCY FOR INSTALLED EQUIPMENT.
- NARRATIVE OF HOW EACH SYSTEM IS INTENDED TO OPERATE, INCLUDING RECOMMENDED SETPOINTS.
- SUBMITTAL DATA INDICATING ALL SELECTED OPTIONS FOR EACH PIECE OF LIGHTING CONTROL EQUIPMENT AND LIGHTING CONTROLS.
- MANUAL FOR EACH PIECE OF LIGHTING CONTROL EQUIPMENT INDICATING REQUIRED ROUTINE MAINTENANCE ACTIONS AND CLEANING.
- SCHEDULE FOR INSPECTING AND RECALIBRATING LIGHTING CONTROLS.

E. MAINTENANCE MATERIALS: FURNISH THE FOLLOWING FOR OWNER'S USE IN MAINTENANCE OF PROJECT.

- EXTRA OCCUPANCY SENSORS, POWER PACKS, ROOM CONTROLLERS, AND WALL PUSHBUTTON STATIONS (WITHOUT LABELING); TWO PERCENT OF TOTAL QUANTITY INSTALLED FOR EACH TYPE, BUT NOT LESS THAN ONE OF EACH TYPE.

1.3 WARRANTY

A. PROVIDE FIVE YEAR MANUFACTURER WARRANTY FOR LIGHTING CONTROL COMPONENTS.

PART 2 PRODUCTS

2.1 MANUFACTURERS

A. ACUTY BRANDS LIGHTING: WWW.ACUTYBRANDS.COM.

B. HUBBELL: WWW.HUBBELL.COM.

C. WATTSTOPPER: WWW.LEGRAND.US/WATTSTOPPER.

D. SOURCE LIMITATIONS: FURNISH PRODUCTS PRODUCED BY A SINGLE MANUFACTURER AND OBTAINED FROM A SINGLE SUPPLIER, WHERE POSSIBLE. UNLESS INDICATED OTHERWISE.

E. SUBSTITUTIONS AND PRIOR APPROVAL REQUESTS: MANUFACTURERS NOT LISTED WILL BE CONSIDERED AS PRIOR APPROVAL OR SUBSTITUTION REQUEST. PROVIDE THE FOLLOWING:

- MANUFACTURER'S CUT SHEETS FOR PROPOSED COMPONENTS.
- EXAMPLE WIRING SCHEMATIC.
- UPON REQUEST, A WORKING SAMPLE.

2.2 LIGHTING CONTROL SYSTEM - GENERAL REQUIREMENTS

A. SYSTEM DESCRIPTION: NON-NETWORKED, LOW VOLTAGE, DIGITAL STAND ALONE DEVICES THAT CONTROL LIGHTING WITHIN ROOMS/SPACES.

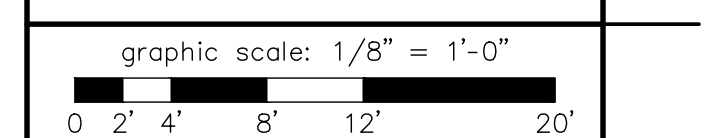
B. PROVIDE SYSTEM CONSISTING OF WIRED COMPONENTS.

C. PROVIDE PRODUCTS LISTED, CLASSIFIED, AND LABELED AS SUITABLE FOR THE PURPOSE INTENDED.

D. UNLESS SPECIFICALLY INDICATED TO BE EXCLUDED, PROVIDE ALL REQUIRED CONDUIT, WIRING, CONNECTORS, HARDWARE, COMPONENTS, ACCESSORIES, ETC. AS REQUIRED FOR A COMPLETE OPERATING SYSTEM COMPATIBLE WITH CONTROLLED LUMINAIRES.

E. PROVIDE PLENUM RATED CABLES FOR INTERCONNECTION OF SYSTEM COMPONENTS, TYPES AS RECOMMENDED BY MANUFACTURER.

- SELECT CABLE LENGTHS BASED ON ACTUAL INSTALLATION CONDITIONS.
- CABLES SHALL BE AS SHORT AS PRACTICAL.
- PROVIDE WHITE CABLES UNLESS NOTED OTHERWISE.



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NOTE:
DO NOT SCALE DRAWINGS. VERIFY ALL DIMENSIONS and clearances from ARCHITECTURAL, STRUCTURAL, shop and other appropriate drawing or at site. lay out and coordinate all work prior to installation to provide clearances required for operation, maintenance, and codes and verify non-interference with other work. DO NOT FABRICATE PRIOR TO VERIFICATION OF CLEARANCE FOR ALL TRADES. READ SPECIFICATIONS.

Frankel Zacharia
Sixth Floor Remodel
1140A West Dodge Road
Omaha, NE 68154

Electrical Specifications

Designed: arm Sheet No.

Drawn by: mrg **E403**

Reviewed:

Proj: 4955



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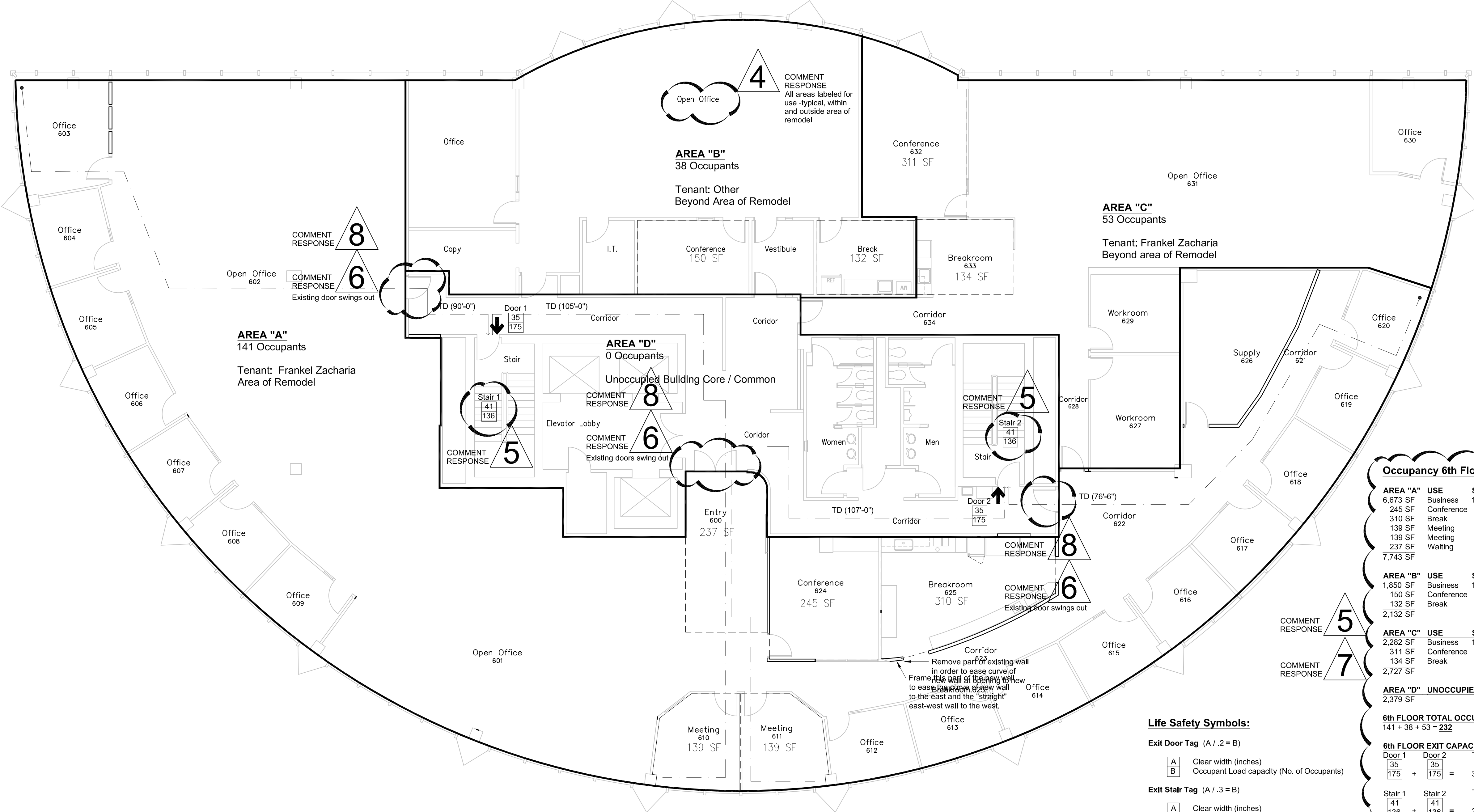
Omaha: 1201 Cass Street, Omaha, NE 68102, Phone: (402) 348-7007

Lincoln: 1220 Lincoln Mall, Suite 200, Lincoln, NE 68508, Phone: (402) 447-6161

Oklahoma City: 1001 W. Walnut Blvd., Suite 102, Oklahoma City, OK 73116, Phone: (405) 956-3480

Des Moines: 400 East Court Avenue, Suite 130, Des Moines, IA 50309, Phone: (515) 243-0569

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Occupancy 6th Floor:

| AREA | USE | SF:OCC | OCCUPANTS |
|----------|------------|--------|-----------|
| 6,673 SF | Business | 100:1 | 67 |
| 245 SF | Conference | 15:1 | 17 |
| 310 SF | Break | 15:1 | 21 |
| 139 SF | Meeting | 15:1 | 10 |
| 139 SF | Meeting | 15:1 | 10 |
| 237 SF | Waiting | 15:1 | 16 |
| 7,743 SF | | | 141 Total |
| 1,850 SF | Business | 100:1 | 19 |
| 150 SF | Conference | 15:1 | 10 |
| 132 SF | Break | 15:1 | 9 |
| 2,132 SF | | | 38 Total |
| 2,282 SF | Business | 100:1 | 23 |
| 311 SF | Conference | 15:1 | 21 |
| 134 SF | Break | 15:1 | 9 |
| 2,727 SF | | | 53 Total |
| 2,379 SF | | | |

6th FLOOR TOTAL OCCUPANTS
141 + 38 + 53 = 232

| Door | Clear Width (Inches) | Occupant Load Capacity (No. of Occupants) | Total Capacity | Required Capacity |
|---------|----------------------|---|----------------|-------------------|
| Door 1 | 35 | 175 | 350 | > 232 |
| Door 2 | 35 | 175 | | |
| Stair 1 | 41 | 136 | 272 | > 232 |
| Stair 2 | 41 | 136 | | |

Life Safety Symbols:

Exit Door Tag (A / .2 = B)

A Clear width (Inches)
B Occupant Load capacity (No. of Occupants)

Exit Stair Tag (A / .3 = B)

A Clear width (Inches)
B Occupant Load capacity (No. of Occupants)

Line Types for Means of Egress:

Travel Distance ——— TD →
Common Path - - - - - CP →

Exit Discharge:
→ Exit access arrow

43.1.1 Classification of Rehabilitation Work Categories.
Rehabilitation work on existing buildings shall be classified as one of the following work categories.
1. Repair
2. Renovation
3. Modification
4. Reconstruction
5. Change of use or occupancy classification
6. Addition

COMMENT RESPONSE 5
COMMENT RESPONSE 7

COMMENT RESPONSE 9

COMMENT RESPONSE 5
COMMENT RESPONSE 7

