

BENNETT COMMUNITY SAFETY OFFICE EXPANSION & REMODEL

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BENNETT COMMUNITY SAFETY

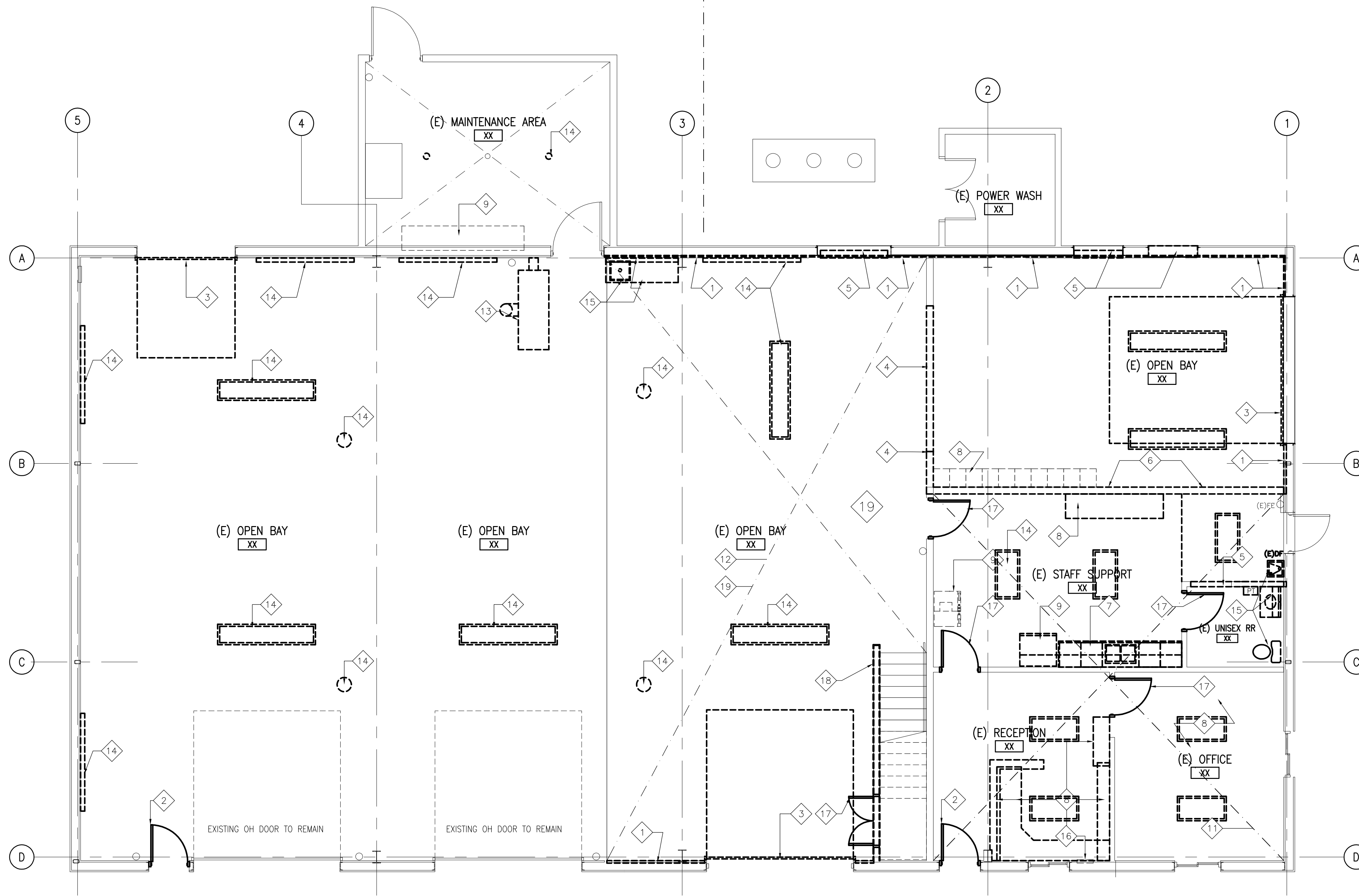
365 PALMER AVENUE

BENNETT, COLORADO 80102

TENANT FINISH

• JOB NO. 2303

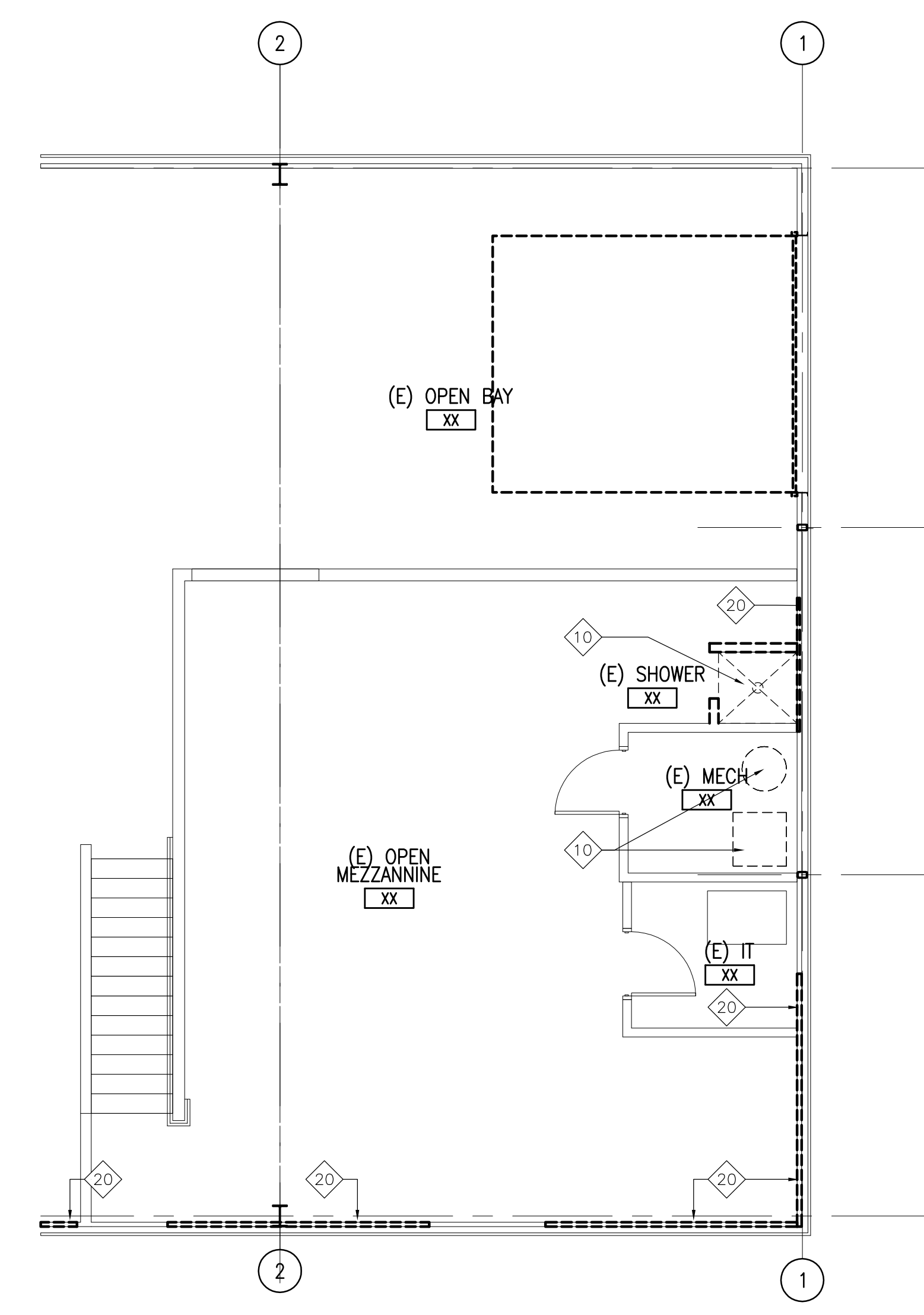
ABBREVIATIONS	GRAPHIC STANDARDS	GENERAL NOTES / CONDITIONS	PROJECT TEAM	SHEET INDEX																																																									
<p>AC AIR CONDITIONING ACT ACUSTIC CEILING TILE AD AREA DRAIN, ACCESS DOOR ADD ADJUSTABLE AFF ABOVE FINISH FLOOR ALUM ALUMINUM ALT ALTERNATE APPROX APPROXIMATE ARCH ARCHITECTURAL ASPH ASPHALT AUTO AUTOMATIC AUX AUXILIARY AV AUDIO VISUAL AVG AVERAGE</p> <p>BATH BATHROOM BD BOARD BET BETWEEN BLDG BUILDING BLKG BLOCKING BM BENCHMARK, BEAM BOT BOTTOM BSMT BASEMENT</p> <p>CAB CABINET CER CERAMIC CFM CUBIC FEET PER MINUTE CFR CAST IN PLACE CJ CIRCUMFERENCE CK CONTROL JOINT CL CALKING CLG CENTERLINE CLS CEILING CMU CONCRETE MASONRY UNIT COL CLEAN OUT COLN COLUMN CONC CONCRETE CONF CONFERENCE CONST CONSTRUCTION CONT CONTINUOUS CORR CORRIDOR, CORRUGATED CRPT CARPET CT CERAMIC TILE CU CUPBOARD CW COLD WATER</p> <p>DOB DOOR DEGREE DEGREE DEM DEMOLISH, DEMOLITION DEPT DEPARTMENT DF DRINKING FOUNTAIN DIA DIAMETER DIM DIMENSIONS DN DOWN DR DOOR DRS DRAINAGE DTL DETAIL DWG DRAWING</p> <p>E EAST EA EACH EL ELEVATION ELEC ELECTRICAL ELV ELEVATOR EM EMERGENCY EQ EQUAL EQPM EQUIPMENT EXST. EXISTING EXH EXHAUST EXP EXPANSION, EXPOSED EXTR EXTERIOR</p> <p>F FAHRENHEIT FAC FIRE ALARM CABINET FD FLOOR DRAIN, FIRE DAMPER FNDN FOUNDATION FIN FINISH FIN FINISH FLR FLOOR FLOOR FLOOR FLX FLEXIBLE FO FACE OF FR FIRE RATED FT FOOT, FEET FTG FOOTING FURN FURNISH, FURNISHED FURR FURR, FURRED, FURRING</p> <p>G GAS GA GAUGE GALV GALVANIZED GB GRAB BAR GC GENERAL CONTRACTOR GEN GENERATOR GPM GALLONS PER MINUTE GWB GYPSUM WALL BOARD GYP GYPSUM</p> <p>HB HOSE BIB HC HOLLOW CORE, HANDICAPPED HDR HEADER HDWR HARDWARE HORZ HORIZONTAL HR HORSEPOWER HR HOUR HT HEIGHT HVAC HEATING, VENTILATION AND A/C HWY HIGHWAY</p> <p>ID INSIDE DIAMETER ILLUM ILLUMINATED INCH INCHES INCL INCLUDES INCLD INCLUDED INSUL INSULATION INTR INTERIOR INV INVERT JAN JANITOR JST JOINT JT JOINT</p> <p>KITCHEN KITCHEN KNCKOUT KNOCKOUT KW KILOWATT</p> <p>L LENGTH LAM LAMINATE LAV LAVATORY LN LINEAR LT LIGHT</p> <p>MACH MACHINERY MATL MATERIAL MAX MAXIMUM MECH MECHANICAL MEMB MEMBRANE MEZZ MEZZANINE MFG MANUFACTURER MH MANHOLE MI MILE MIN MINIMUM MISC MISCELLANEOUS MNTD MOUNTED MTL METAL</p> <p>N NORTH NEW NEW NIC NOT IN CONTRACT NO NOMINAL NOM NOT TO SCALE NTS NOT TO SCALE</p> <p>OC ON CENTER OD OUTSIDE DIAMETER OFF OFFICE OPN OPENING OPP OPPOSITE</p> <p>PC PRECAST PERF PERFORATED PERM PERMANENT PKG PARKING PL PLATE, PROPERTY LINE PLM PLASTIC LAMINATE PLYWOOD PLYWOOD PR PREFABRICATED PREPAB PREFABRICATED PREPN PREFABRICATED PSF POUNDS PER SQUARE FOOT PSI POUNDS PER SQUARE INCH PSP PAPER TOWEL DISPENSER PTR PARTITION PT PAINT PV POLYVINYL CHLORIDE PVMT PAVEMENT</p> <p>QTY QUANTITY R RADIUS RD ROAD REF REFERENCE RECP RECEPTACLE REG REGISTER REG REGISTER REMO REMOVE REMO REMOVE REVD REVISION, REVISIONS, REVISED REV REVISION, REVISIONS, REVISED ROOF ROOF RO ROUGH OPENING ROW RIGHT OF WAY RRM REVOLUTIONS PER MINUTE</p> <p>SC SOLID CORE SECT SECTION SHT SHEET SIM SIMILAR SPEC SPECIFICATIONS SPKL SPRINKLER SPKR SPEAKER SQ SQUARE SS STAINLESS STEEL STD STANDARD STL STEEL STR STORAGE STRUC STRUCTURAL SUSP SUSPENDED SYMM SYMMETRICAL SYSTEM SYSTEM</p> <p>T&B TOP AND BOTTOM TEL TELEPHONE TEMP TEMPERATURE, TEMPORARY T&G TONGUE AND GROOVE THERM THERMOSTAT THK THICK TO TOP OF TS TUBS, STEEL TV TELEVISION TYPC TYPICAL</p> <p>UNFIN UNFINISHED UNOT UNLESS OTHERWISE NOTED</p> <p>V VOLT VARS VARIES VCT VINYL COMPOSITE TILE VENT VENTILATION VERT VERTICAL VEST VESTIBULE VINYL SHEET VINYL VOL VOLUME VO VENT THROUGH ROOF</p> <p>W WEST, WIDE W WITH WC WATER CLOSET WD WOOD WIND WINDOW W.O. WHERE OCCURS W/O WITHOUT WR WATERPROOFING WR WATER RESISTANT WT WEIGHT Y YARD</p>	<p>ROOM NAME ROOM NUMBER</p> <p>SECTION NUMBER</p> <p>SHEET NUMBER</p> <p>INTR. ELEV. LETTER</p> <p>INTR. ELEV. NUMBER</p> <p>SHEET NUMBER</p> <p>DETAIL NUMBER</p> <p>AREA OF ENLARGED PLAN OR DETAIL</p> <p>WINDOW TYPE</p> <p>DOOR NUMBER</p> <p>DOOR HARDWARE TYPE</p> <p>DOOR TYPE</p> <p>WALL TYPE</p> <p>REVISION NUMBER</p>	<p>1. ALL WORK SHALL BE PERFORMED IN STRICT CONFORMANCE WITH ALL LOCAL LAWS, ORDINANCES, RULES AND REGULATIONS OF GOVERNMENT AUTHORITIES HAVING JURISDICTION.</p> <p>2. BEFORE COMMENCEMENT OF THE WORK, THE GENERAL CONTRACTOR AND SUBCONTRACTORS SHALL VERIFY ALL DIMENSIONS, CONDITIONS SHOWN IN THE CONTRACT DOCUMENTS, AND EXISTING CONDITIONS. ANY DEVIATIONS, DISCREPANCIES, AND/OR CONFLICTS INCLUDING COORDINATION BETWEEN ARCHITECTURAL AND ELECTRICAL SHALL BE REPORTED TO ALLRED & ASSOCIATES IN WRITING PRIOR TO PROCEEDING WITH THE WORK IN QUESTION OR ANY ASSOCIATED WORK. THE GENERAL CONTRACTOR IS TO ASSUME THE MORE COSTLY WORK IS TO BE INSTALLED.</p> <p>3. DO NOT SCALE DRAWINGS: DIMENSIONS GOVERN, LARGE SCALE DETAILS GOVERN OVER SMALL SCALE. A. INTERIOR DRYWALL PARTITIONS ARE DIMENSIONED FROM MTL. STUD TO MTL. STUD, UNLESS OTHERWISE NOTED ON PLANS. B. MASONRY PARTITIONS ARE DIMENSIONED FROM ROUGH WALL TO ROUGH WALL. C. GLASS SIZES SHOWN ON DRAWINGS ARE NOMINAL, ACTUAL SIZES WILL BE SMALLER.</p> <p>4. THE GENERAL CONTRACTOR SHALL CONTACT ALLRED & ASSOCIATES FOR A FIELD INSPECTION OF THE PARTITION AND CONSTRUCTION LAYOUTS AT THE APPROPRIATE STAGES OF THE JOB BEFORE THE PARTICULAR ELEMENTS OF CONSTRUCTION ARE ERECTED.</p> <p>5. WORK. THE GENERAL CONTRACTOR SHALL CALL SPECIFIC ITEMS TO THE ATTENTION OF AN ALLRED & ASSOCIATES REPRESENTATIVE IF THE CONTRACTOR WISHES TO OBTAIN ALLRED & ASSOCIATES APPROVAL FOR ANY SPECIFIC ITEM(S).</p> <p>6. THE GENERAL CONTRACTOR SHALL PERFORM HIGH QUALITY PROFESSIONAL WORK. JOIN MATERIALS TO UNIFORM ACCURATE FITS SO THEY MEET WITH NEAT, STRAIGHT LINES, FREE OF SMEARS OR OVERLAPS. INSTALL EXPOSED MATERIALS APPROPRIATELY LEVEL, PLUMB AND AT ACCURATE RIGHT ANGLES, OR FLUSH WITH ADJOINING MATERIALS. WORK OF EACH TRADE SHALL MEET OR EXCEED ALL NATIONAL STANDARDS PUBLISHED BY THAT TRADE.</p> <p>7. THE GENERAL CONTRACTOR FOR THE PROJECT SHALL BE RESPONSIBLE FOR OBTAINING ALL REQUIRED PERMITS.</p> <p>8. THE GENERAL CONTRACTOR SHALL TAKE ABSOLUTE CARE TO PROTECT NEWLY INSTALLED MATERIALS, MILLWORK, BUILT-INS AND FINISHES.</p> <p>9. DAMAGE DONE TO THE WORK OF OTHER TRADES (PAINT, WALLS, FLOORS, SURFACE FINISHES, ETC.) BY THE CONTRACTOR AND/OR ANY SUBCONTRACTOR SHALL BE REPAIRED OR REPLACED WITH NEW MATERIALS AT NO COST TO THE OWNER. SUBCONTRACTORS SHALL PAY ATTENTION TO AND HAVE RESPECT FOR THE WORK OF OTHERS. BACK CHARGES WILL BE ASSESSED FOR ANY AND ALL DAMAGE TO WORK OF OTHERS AND ANYONE NOT COMPLYING WITH THIS PROVISION WILL BE DISCHARGED FROM THE PROJECT.</p> <p>10. PROVIDE AMPLE PROTECTION FOR ALL MATERIALS PRIOR TO, DURING AND AFTER INSTALLATION FROM DAMAGE AND SOILING.</p> <p>11. THE CONTRACTOR AND HIS SUBCONTRACTORS SHALL TURN THE PROJECT OVER TO THE OWNER FREE FROM ALL CONSTRUCTION DEBRIS, SCRAPS, MATERIAL AND CONSTRUCTION.</p> <p>12. THE FINAL INSTALLATION OF ALL SPECIFIED MATERIALS AND EQUIPMENT SHALL BE COMPLETE PRIOR TO FINAL ACCEPTANCE OF THE PROJECT. THE CONTRACTOR SHALL FURNISH THE OWNER WITH ALL WARRANTIES AND GUARANTEES REQUIRED AT THE CONCLUSION OF THE WORK. THE CONTRACTOR IS TO PROVIDE CUT SHEETS, SUBMITTALS AND PRODUCT LITERATURE FOR ALL MANUFACTURED PRODUCTS INCORPORATED INTO THE CONSTRUCTION.</p>	<p>OWNER DEPARTMENT OF PUBLIC WORKS 365 PALMER AVENUE BENNETT, CO 80102 C: DAYMON JOHNSON P: 720.638.6588 E: djohnson@</p> <p>ARCHITECT ALLRED & ASSOCIATES 580 BURBANK STREET, UNIT 125 BROOMFIELD, COLORADO 80020 C: LAWRENCE HUNTER P: 303.465.4306 X2 E: lawrence@allredarch.com</p> <p>MEP GIVEN & ASSOCIATES 735 S. XENON COURT, SUITE 201 LAKEWOOD, CO 80228 C: BRETT BOLESKI, P.E. P: 720.638.6588 E: brettb@givenandassociates.com</p> <p>STRUCTURAL STRUCTURAE, LLC 30 WHISPERING PINES BOULDER, COLORADO 80302 C: BRANDON JEFFRIES P: 303.465.2903 E: brandon@structurae.com</p>	<p>A0.0 TITLE SHEET A0.2 DEMOLITION FLOOR PLAN A2.0 REMODEL FLOOR PLAN A3.0 REFLECTED CEILING PLAN A5.0 BUILDING & WALL SECTIONS A5.1 WALL SECTIONS AND WALL TYPES A6.0 FINISH PLANS A7.0 INTERIOR ELEVATIONS & ENLARGED PLANS A8.0 DOOR & WINDOW SCHEDULES & DETAILS</p> <p>S1.0 STRUCTURAL FRAMING PLAN S2.0 STRUCTURAL DETAILS & NOTES S3.0 STRUCTURAL DETAILS & NOTES</p> <p>M0.1 MECHANICAL SPECIFICATIONS M0.2 MECHANICAL SCHEDULES M1.1 FLOOR PLAN - MECHANICAL DEMO M2.1 FLOOR PLAN - MECHANICAL M5.1 MECHANICAL DIAGRAMS M5.2 MECHANICAL DIAGRAMS M6.1 MECHANICAL ENERGY CALCULATIONS</p> <p>P0.1 PLUMBING SPECIFICATIONS & LEGENDS P0.2 PLUMBING SCHEDULES P1.1 PLUMBING DEMOLITION PLANS P2.0 PLUMBING UNDERGROUND BUILDING PLAN P2.1 PLUMBING FLOOR PLANS P5.1 PLUMBING ISOMETRICS P5.2 PLUMBING DIAGRAMS</p> <p>E0.1 ELECTRICAL SPECIFICATIONS & LEGENDS E0.2 ELECTRICAL ONE-LINE DIAGRAM E0.3 ELECTRICAL PANEL SCHEDULES E1.1 ELECTRICAL DEMOLITION PLANS E2.1 POWER PLANS E2.2 LIGHTING PLANS E3.1 ELECTRICAL ENERGY CALCULATIONS</p> <p>FURNITURE 1 OF 8 FURNITURE - OVERALL 2 OF 8 FURNITURE - RECEPTION 3 OF 8 FURNITURE - BUILDING DEPARTMENT OFFICE 4 OF 8 FURNITURE - CONFERENCE ROOM 5 OF 8 FURNITURE - TOUCHDOWN WORSTATIONS 6 OF 8 FURNITURE - PRIVATE OFFICE 7 OF 8 FURNITURE - SHARED OFFICE 8 OF 8 FURNITURE - CSO OFFICES</p> <p>BY OTHERS - SHOWN FOR COORDINATION</p>																																																									
		<p>FINISH NOTES / CONDITIONS</p> <p>1. THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR ADVISING ALLRED & ASSOCIATES OF ANY QUESTIONS REGARDING THE FINISH SELECTIONS AND FINISH SYSTEMS, METHOD OF APPLICATION OR SCOPE OF WORK PRIOR TO PROCEEDING WITH THE WORK IN QUESTION.</p> <p>2. THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR FIELD INSPECTION OF THE SURFACES TO RECEIVE PAINT, ASSURING THAT SUCH SURFACES ARE ACCEPTABLE FOR APPLICATION PRIOR TO INITIATING ACTUAL FINISH WORK. NO PAINT FINISH SHALL BE APPLIED ON ANY SURFACE WHICH IS UNFINISHED NOR IMPROPERLY PREPARED OR OTHERWISE NOT FULLY ACCEPTABLE FOR THE FINISH APPLICATION. ALL ROUGHNESS OR OTHER IRREGULARITIES THAT MAY APPEAR AFTER PRIMING SHALL BE THOROUGHLY SANDED OUT OR OTHERWISE CORRECTED TO PROVIDE A SMOOTH AND EVEN SURFACE FOR PAINTING AND FINISHING. FINISHED APPLICATION AND WALL APPEARANCE SHALL BE FREE OF SURFACE AND COLOR IRREGULARITIES. BY FINISHING THESE SURFACES THE FINISH CONTRACTOR ACCEPTS THE RESPONSIBILITY FOR THE FINAL PRODUCT.</p> <p>3. APPLICATION FOR ALL PAINTED SURFACES SHALL NOT BE LESS THAN A TWO COAT SYSTEM, UNLESS OTHERWISE NOTED: USING THE COMPLETE PAINT SYSTEM (PRIMER AND FINISH COAT) AS RECOMMENDED BY THE PAINT MANUFACTURER AND THE MODERN GUIDE TO PAINT SPECIFICATIONS, LATEST EDITION, AS MINIMUM STANDARDS.</p> <p>4. THE GENERAL CONTRACTOR SHALL UPON COMPLETION REMOVE PAINT FROM WHERE IT HAS SPILLED, SPLASHED OR SPATTERED ON SURFACES, INCLUDING LIGHT FIXTURES, DIFFUSERS, FITTINGS, ETC. THE GENERAL CONTRACTOR SHALL REMOVE ALL ELECTRICAL SWITCH AND OUTLET COVERPLATES AND SURFACE HARDWARE BEFORE PAINTING; PROTECTING AND REPLACING THE SAME WHEN PAINTING IS COMPLETE.</p> <p>5. SAMPLES OF ALL FINISHES SPECIFIED SHALL BE SUBMITTED TO ALLRED & ASSOCIATES PRIOR TO COMMENCEMENT OF THE WORK.</p> <p>6. ALL WALLS WHICH HAVE BEEN PAINTED THAT MUST BE TOUCHED UP AS A PUNCHLIST ITEM SHALL BE REPAINTED ENTIRELY BETWEEN THE TWO CLOSEST BREAK POINTS.</p> <p>7. UPON COMPLETION OF WORK, THE GENERAL CONTRACTOR SHALL REMOVE FROM THE PREMISES ALL WASTE MATERIALS AS GENERATED BY THE DELIVERY OF ALL MATERIALS.</p> <p>8. THE GENERAL CONTRACTOR IS RESPONSIBLE TO PROTECT AS REQUIRED ALL OWNER OCCUPIED AREAS WHERE FINISH WORK OR GENERAL CONSTRUCTION IS TO BE PERFORMED.</p> <p>9. THE GENERAL CONTRACTOR SHALL FLASH PATCH AND PREPARE ALL FLOORS AS REQUIRED TO RECEIVE SPECIFIED FLOOR MATERIAL.</p> <p>10. FLOORS MUST BE FREE OF DUST, OIL AND ALL FOREIGN MATTER. BUILDING MUST BE PRE-HEATED TO A MINIMUM OF 65 DEGREES FAHRENHEIT, 24 HOURS PRIOR TO INSTALLATION. CRACKS 1/16" OR MORE, HOLES AND OTHER UNEVENNESS MUST BE FILLED WITH A LATEX BASE FLOOR FILLER. HIGH SPOTS MUST BE LEVELED. FLOOR MUST BE SWEEP CLEAN, WET MOPPED WITH WARM WATER AND SWEEP AGAIN. IF SWEEPING LEAVES A RESIDUE, FLOORS SHALL BE VACUUMED.</p>	<p>CODE SUMMARY</p> <p>CODES USED: 2018 INTERNATIONAL BUILDING CODE 2018 INTERNATIONAL EXISTING BUILDING CODE 2018 INTERNATIONAL PLUMBING CODE 2018 INTERNATIONAL MECHANICAL CODE 2020 NATIONAL ELECTRIC CODE 2018 INTERNATIONAL FIRE CODE 2018 INTERNATIONAL ENERGY CONSERVATION CODE 2018 INTERNATIONAL FUEL GAS CODE 2009 ANSI 117.1</p> <p>* AS PART OF AN ENHANCED ENERGY UPGRADE, THE 2021 REQUIREMENTS WERE SATISFIED.</p> <p>DESCRIPTION: THIS PROJECT WILL CONSIST OF THE REMODEL AND EXPANSION OF AN EXISTING OFFICE AREA (B). EXPANSION WILL OCCUR INTO AN EXISTING VEHICLE BAY (S-1).</p> <p>OCCUPANCY TYPE: MIXED OCCUPANCY (SECTION 304) GROUP B/OFFICE GROUP S-1/MOTOR VEHICLE GARAGE & STORAGE</p> <p>SEPARATION TYPE: NON-SEPARATED USES</p> <p>SEPARATION REQ'D: N (B TO S-1 NS BLDG)</p> <p>ALLOWABLE AREAS: B OCCUPANCY, TYPE VB = 9,000 SF. S-1 OCCUPANCY, TYPE VB = 9,000 SF.</p> <p>ALLOWABLE HEIGHT: 2-STORY, 40 FT (TYPE V-B, B OR S OCCUPANCY)</p> <p>ACTUAL AREA: OFFICE AREA (B OCCUPANCY) = 2,731 SF VEHICLE AREA (S1 OCCUPANCY) = 2,122 SF STORAGE AREA (S1 OCCUPANCY) = 1,252 SF (ROOMS 15,16 & M01) TOTAL ACTUAL AREA = 6,105 SF</p> <p>CONSTRUCTION CLASSIFICATION: (TABLE 601)</p> <table border="1"> <thead> <tr> <th>BUILDING ELEMENT</th> <th>TYPE</th> <th>VB REQUIREMENT</th> </tr> </thead> <tbody> <tr> <td>STRUCTURAL FRAME</td> <td>NR</td> <td></td> </tr> <tr> <td>EXTERIOR BEARING WALLS</td> <td>NR</td> <td></td> </tr> <tr> <td>INTERIOR BEARING WALLS</td> <td>NR</td> <td></td> </tr> <tr> <td>NON BEARING EXTERIOR WALLS</td> <td>NR</td> <td></td> </tr> <tr> <td>NON BEARING INTERIOR WALLS</td> <td>NR</td> <td></td> </tr> <tr> <td>FLOOR CONSTRUCTION</td> <td>NR</td> <td></td> </tr> <tr> <td>ROOF CONSTRUCTION</td> <td>NR</td> <td></td> </tr> </tbody> </table> <p>FIRE-RESISTIVE RATING EXTERIOR: (TABLE 602) <5' 1-HOUR >5'<10' 1-HOUR >10'<30' NR >30' NR</p> <p>OCCUPANT LOAD: OFFICE: 2731/150 = 18 VEHICLE & STORAGE: 3,374/300 = 12 TOTAL OCCUPANT LOAD: = 30</p> <p>PLUMBING FIXTURES: TABLE 2902.1 OCCUPANT LOAD 1/25 WATER CLOSETS FOR THE FIRST 50 AND 1 PER 50 FOR B THE REMAINDER EXCEEDING 50 1/40 LAVATORIES FOR THE FIRST 80 AND 1 PER 80 FOR THE REMAINDER EXCEEDING 80 1/100 DRINKING FOUNTAINS REQUIRED 1 SERVICE SINK REQUIRED</p> <p>30 OCCUPANTS, 15 MALE & 15 FEMALE</p> <table border="1"> <thead> <tr> <th></th> <th>REQUIRED</th> <th>PROVIDED</th> </tr> </thead> <tbody> <tr> <td>MALE WC</td> <td>1</td> <td>2</td> </tr> <tr> <td>MALE LAV</td> <td>1</td> <td>2</td> </tr> <tr> <td>FEMALE WC</td> <td>1</td> <td>2</td> </tr> <tr> <td>FEMALE LAV</td> <td>1</td> <td>2</td> </tr> <tr> <td>DRINKING FOUNTAIN</td> <td>1</td> <td>2*</td> </tr> <tr> <td>SERVICE SINK</td> <td>1</td> <td>1 EXISTING</td> </tr> </tbody> </table> <p>NOTE: 2 SINGLE-USER ACCESSIBLE UNISEX RESTROOMS PROVIDED</p>	BUILDING ELEMENT	TYPE	VB REQUIREMENT	STRUCTURAL FRAME	NR		EXTERIOR BEARING WALLS	NR		INTERIOR BEARING WALLS	NR		NON BEARING EXTERIOR WALLS	NR		NON BEARING INTERIOR WALLS	NR		FLOOR CONSTRUCTION	NR		ROOF CONSTRUCTION	NR			REQUIRED	PROVIDED	MALE WC	1	2	MALE LAV	1	2	FEMALE WC	1	2	FEMALE LAV	1	2	DRINKING FOUNTAIN	1	2*	SERVICE SINK	1	1 EXISTING	<p>AERIAL MAP</p> <p>VICINITY MAP</p> <p>PROJECT SITE</p> <p>REVISION NAME DATE</p> <table border="1"> <thead> <tr> <th>REVISION NAME</th> <th>DATE</th> </tr> </thead> <tbody> <tr> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> </tr> </tbody> </table> <p>ISSUE DATE: 2023.07.24</p>	REVISION NAME	DATE										
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1 DEMOLITION FLOOR PLAN
MAIN LEVEL
3/16" = 1'-0"

DEMOLITION GENERAL NOTES	
1.	PROTECT ALL OF THE EXISTING PORTIONS OF THE BUILDING THAT ARE TO REMAIN FROM DAMAGED DURING DEMOLITION OR CONSTRUCTION. ALL DAMAGED AREAS TO BE PATCHED, REPAIRED AND REFINISHED TO "LIKE-NEW" CONDITIONS AT NO ADDITIONAL COST TO THE OWNER. IF IN THE OPINION OF THE CONTRACTOR EXISTING IMPROVEMENTS TO REMAIN WILL BE DAMAGED OR REQUIRE REMOVAL THE GENERAL CONTRACTOR IS TO INCLUDE THE COST OF REPAIR OR REPLACEMENT IN THE BASE BID.
2.	PATCH, REPAIR & FINISH TO "LIKE NEW" CONDITION AT ALL REMOVED WALL & CEILING FIXTURES, EQUIPMENT & ACCESSORIES.
3.	MAINTAIN THE BUILDING IN A WEATHER TIGHT CONDITION DURING CONSTRUCTION WORK.
4.	LEGALLY REMOVE ALL CONSTRUCTION DEBRIS FROM THE SITE AS SOON AS PRACTICAL. NO ON-SITE SALE OF SALVAGED MATERIALS OR BURNING OF DEBRIS ON SITE SHALL BE PERMITTED.
5.	MAINTAIN THE SITE IN A SAFE CONDITION FOR THE PUBLIC AT ALL TIMES.
6.	DURING CONSTRUCTION, THE GENERAL CONTRACTOR SHALL MAINTAIN FIRE EXTINGUISHERS PER LOCAL BUILDING CODES.
7.	THE GENERAL CONTRACTOR IS TO COORDINATE SCHEDULING OF ALL WORK WITH BUILDING OWNER.
8.	THE GENERAL CONTRACTOR IS TO FIELD VERIFY ALL EXISTING DIMENSIONS. NOTIFY ARCHITECT & OWNER OF ANY DISCREPANCIES THAT MAY OCCUR.
9.	RELOCATE EXISTING THERMOSTATS, SWITCHES, FIRE ALARM SYSTEMS, OR ANY OTHER DEVICES THAT ARE IN CONFLICT WITH DEMOLITION.
10.	THE GENERAL CONTRACTOR IS TO COORDINATE/REMOVE (E) GYP. BD. WALLS, CEILINGS, AND ASSOCIATED ASSEMBLIES & (E) ACOUSTICAL TILE CEILINGS AND GRID AS NEEDED FOR (N) CONSTRUCTION. PROVIDE (N) MATERIALS AS REQUIRED TO MATCH (E).
11.	THE GENERAL CONTRACTOR IS TO PROVIDE AND COORDINATE ALL DEMOLITION ACTIVITIES REQUIRED FOR THE INSTALLATION OF ALL (N) & REMOVED ARCHITECTURAL, MECHANICAL AND ELECTRICAL SYSTEMS. PROVIDE (N) MATERIALS AS REQUIRED TO MATCH (E).

DEMOLITION FLAG NOTES	
1	DEMO EXISTING INTERIOR PARTIAL HT (7 FT) BUTLER INTERIOR WAINSCOT IN ITS ENTIRETY. REMOVE ALL SURFACE-MOUNT AND IN-WALL WET AND DRY UTILITIES. CONFIRM WITH OWNER AND MEP. DO NOT ORPHAN ANY DOWNSIDE, ACTIVE VEHICLE BAY UTILITIES THAT ARE SCHEDULED TO REMAIN.
2	REMOVE AND SALVAGE EXISTING EXTERIOR HM DOOR IN ITS ENTIRETY. PREP OPENING TO RECEIVE A NEW HM DOOR (SWING DIRECTION CHANGE). RE: DOOR SCHEDULE AND A2.1 FOR NEW DOOR SPECS.
3	REMOVE AND SALVAGE EXISTING COILING OVERHEAD DOOR IN ITS ENTIRETY AND RETURN TO OWNER. PREP OPENING TO RECEIVE NEW STOREFRONT. RE: WINDOW SCHEDULE FOR R.O. MODIFICATIONS.
4	DEMO EXISTING INTERIOR PARTITION IN ITS ENTIRETY. REMOVE ALL SURFACE-MOUNT AND IN-WALL UTILITIES, INCLUDING POWER, DATA & COMM. TAKE BACK TO NEAREST J-BOX.
5	DEMO EXISTING BUTLER EXTERIOR WALL AS REQUIRED FOR NEW DOOR/WINDOW PLACEMENT. RELOCATE DRY & WET UTILITIES AS REQUIRED. RE: DOOR SCHEDULE AND WINDOW SCHEDULES.
6	DEMO EXISTING MEZZANINE BEARING WALL. SHORE AS REQUIRED. PREP FOR NEW POST AND BEAM PLACEMENT. RE: STRUCTURAL.
7	DEMO EXISTING CABINERY/CASEWORK IN ITS ENTIRETY. TAKE WET AND DRY UTILITIES BACK TO WALL CAVITY. CAP AS NEEDED AND PREP FOR NEW CONSTRUCTION PER A2.1.
8	REMOVE AND SALVAGE EXISTING OFFICE FURNITURE. CONFIRM DISPOSITION WITH OWNER.
9	REMOVE AND SALVAGE EXISTING EQUIPMENT. CONFIRM DISPOSITION WITH OWNER.



2 DEMOLITION FLOOR PLAN
MEZZANINE LEVEL
3/16" = 1'-0"

DEMOLITION FLAG NOTES	
10	DEMO EXISTING FURNACE & DHW HEATER. PREP FOR REPLACEMENT EQUIPMENT RE: MECHANICAL.
11	DEMO EXISTING FLOOR FINISH AND APPLIED WALL FINISH IN EXISTING OFFICE AREA TYPICAL THROUGHOUT. PREP DRYWALL TO RECEIVE NEW FINISHES.
12	REMOVE ALL SLAB-INSTALLED MOUNTING HARDWARE CLEAN AND PREP SLAB TO RECEIVE NEW FINISHES FOR OFFICE EXPANSION INTO THIS AREA.
13	REMOVE AND SALVAGE EXISTING OIL-FIRED CABINET UNIT HEATER (CUH).
14	REMOVE AND SALVAGE EXISTING LIGHT FIXTURE. TYPICAL ALL EXISTING LIGHT FIXTURES. CONFIRM DISPOSITION WITH OWNER.
15	DEMO EXISTING PLUMBING FIXTURE. RE: PLUMBING FOR NEW FIXTURE LOCATIONS AND REQUIRED ROUGH-IN RELOCATION AND/OR REMOVAL.
16	DEMO EXISTING ELECTRICAL PANEL. RE ELECTRICAL FOR NEW PANEL LOCATION AND REROUTING.
17	DEMO EXISTING INTERIOR WOOD DOOR, CASING AND TRIM. PREP OPENING TO RECEIVE A NEW DOOR OR A CASED OPENING. RE: FLOOR PLAN.
18	REMOVE WD CAP AND DRYWALL ON SLOPED OUTER WALL OF STAIR. FRAMING, STRINGER AND STAIR TO REMAIN. PREP TO SISTER NEW FRAMING, DRYWALL AND FINISH FOR 12 FT H WALL.
19	PATCH DRYWALL, REPAIR, SAND FINISH AND PAINT.
20	DEMO EXISTING FINISH AT INSIDE FACE OF (E) EXTERIOR WALL AS REQUIRED FOR PLACEMENT OF FRAMING SUPPORT AT AWNINGS. RE: STRUCTURAL 3/S2.0 AND ARCHI.

EXISTING &
DEMO FLOOR PLAN

A0.2

REVISION NAME	DATE

ISSUE DATE: 2023.07.24

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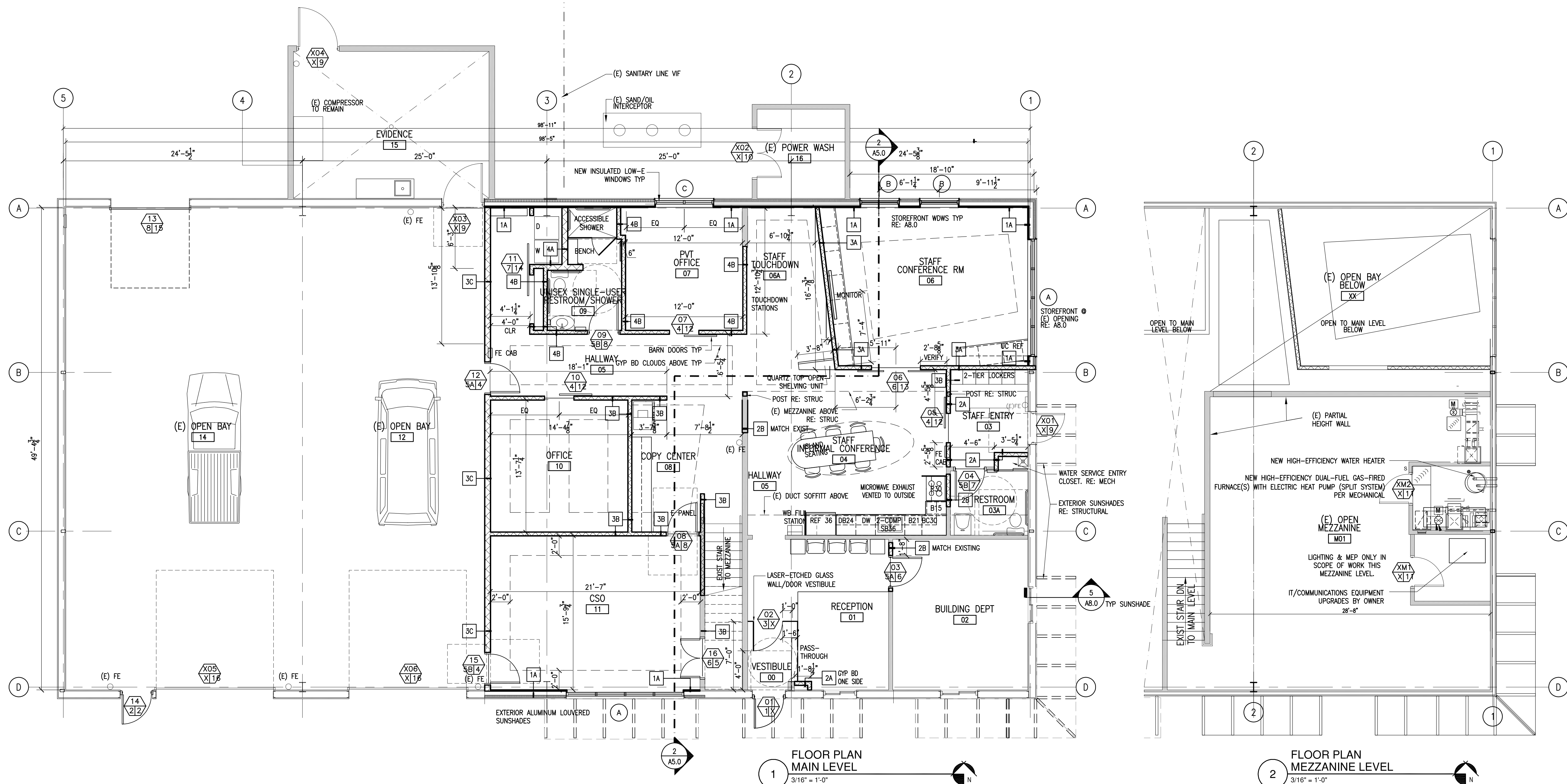
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BENNETT COMMUNITY SAFETY

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BENNETT, COLORADO 80102

TENANT FINISH • JOB NO. 2303

3/16"=1'-0"

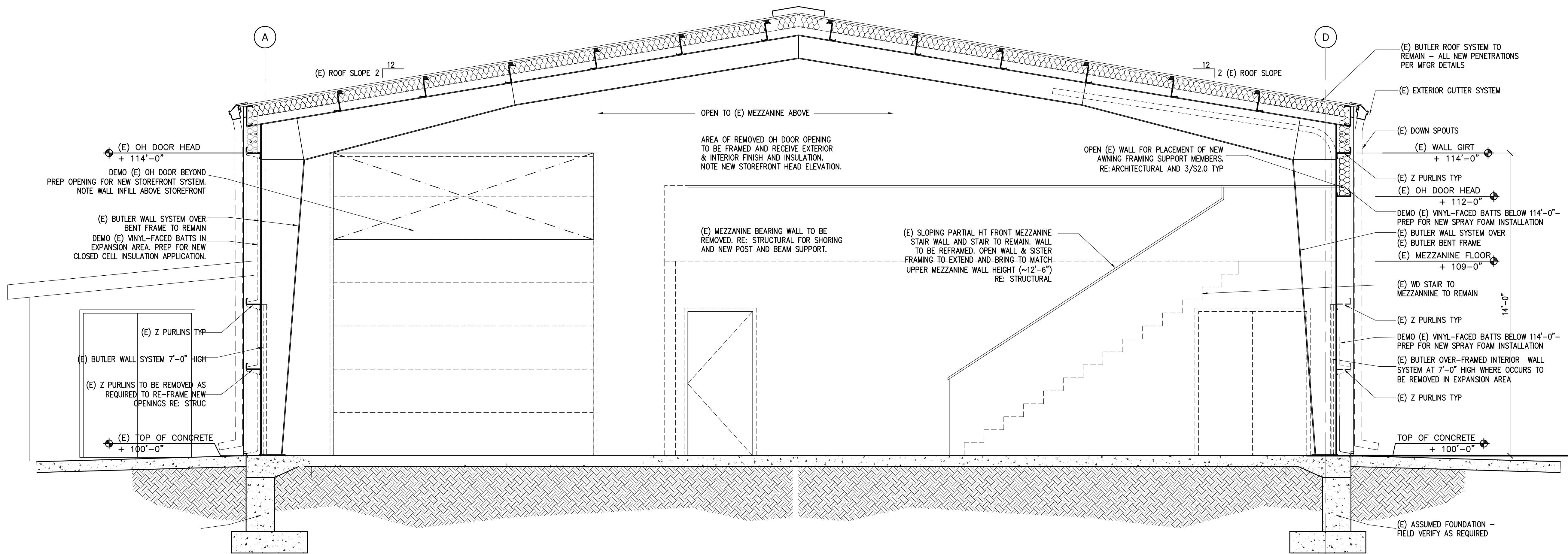


FLOOR PLAN MAIN LEVEL
1
3/16" = 1'-0"

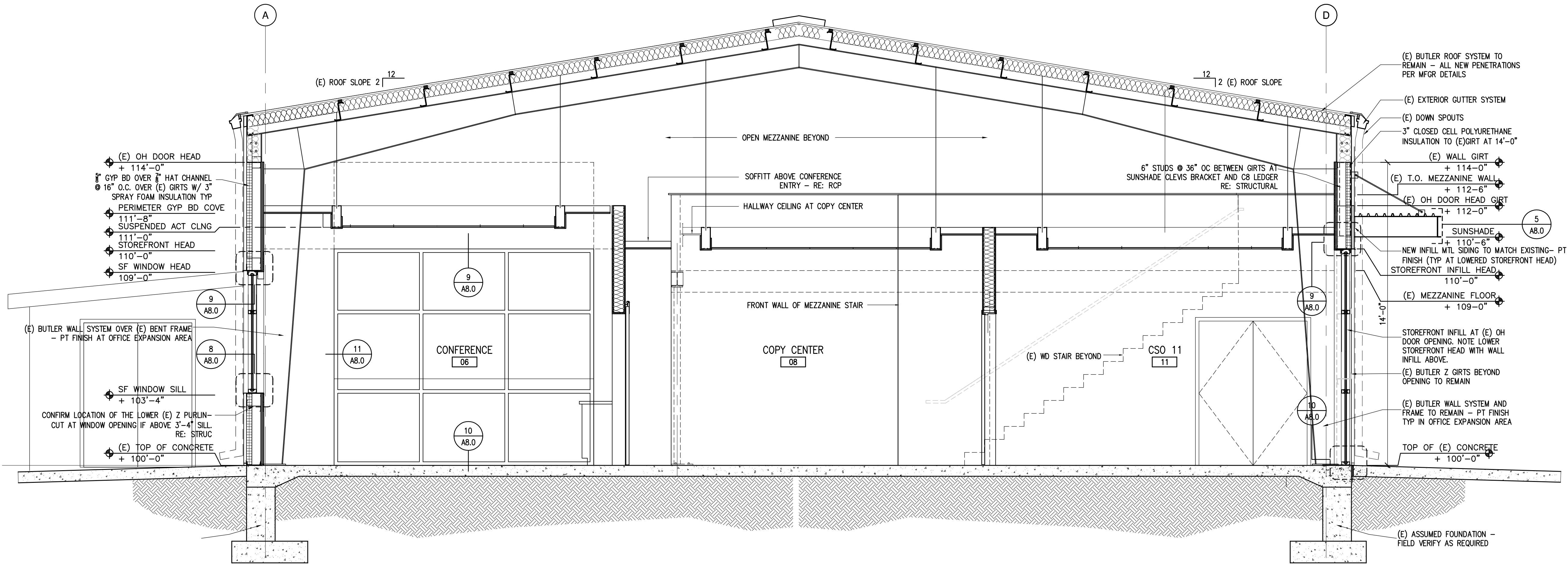
FLOOR PLAN MEZZANINE LEVEL
2
3/16" = 1'-0"

- GENERAL NOTES**
- DO NOT SCALE DRAWINGS. FIELD VERIFY ALL DIMENSIONS. NOTIFY ARCHITECT IMMEDIATELY WHEN DISCREPANCIES ARE DISCOVERED WITH THE DRAWINGS OR SPECIFICATIONS PRIOR TO BID. VERIFY EXISTING WALL LOCATIONS.
 - IT IS THE RESPONSIBILITY OF THE MECHANICAL AND ELECTRICAL SUBCONTRACTORS TO REVIEW ALL OF THE DRAWINGS, INCLUDING ARCHITECTURAL, FOR WORK UNDER THEIR RESPECTIVE CONTRACTORS. ROOF PLANS AND REFLECTED CEILING PLANS DESCRIBE MECHANICAL AND ELECTRICAL WORK AS DO OTHER DRAWINGS. NO EXTRAS WILL BE ALLOWED FOR WORK SHOWN IN ANY PART OF THESE DRAWINGS, OR DESCRIBED IN ANY PART OF THE SPECIFICATIONS.
 - DIMENSIONS ARE FROM FACE OF STUD, FACE OF MASONRY, FACE OF CONCRETE. WHERE DIMENSION IS NOTED "CLEAR", DIMENSION IS TO FINAL FINISH. ALL EXTERIOR DIMENSIONS ARE TO OUTSIDE FACE OF FOUNDATION WALL.
 - PROVIDE BLOCKING AT ALL ACCESSORIES.
 - SEE A5.0 FOR WALL TYPES - 1A
 - CONTRACTOR SHALL COORDINATE THE INSTALLATION OF PIPING, WIRING, AND CONDUIT ABOVE CEILING GRID, IN WALL OR CONCEALED FROM VIEW. IT IS TO BE NEAT AND ORDERLY.
 - ALL WORK SHALL CONFORM TO ALL APPLICABLE CODES.
 - ALL DRAIN SYSTEMS SHALL BE TESTED AND APPROVED PRIOR TO COVERING UP THE DRAIN SYSTEM.
 - PROVIDE FRAMING & 3/4" PLYWD BACKING BETWEEN STUDS AT THE TV LOCATION IN CONFERENCE ROOM. COORDINATE LOCATION WITH OWNER.
 - CONTRACTOR TO COORDINATE SUSPENDED LIGHT FIXTURES PRIOR TO LOCATING DUCT WORK. DUCT WORK SHALL BE MOVED IF REQUIRED BY THE SUSPENSION OF LIGHTS OR OTHER ARCHITECTURAL ITEMS.
 - WHEN PLUMBING IS ON AN OUTSIDE WALL, CONTRACTOR WILL INSTALL ALL PLUMBING ON THE WARM SIDE OF THE INSULATION. DO NOT REMOVE INSULATION TO FIT PLUMBING IN STUD SPACE. IF REQUIRED USE SPRAY FOAM TO INSULATE ON THE "OUTSIDE" OF PLUMBING.
 - CONTRACTOR TO PROVIDE DATA BOXES AND CONDUIT TO TOP OF WALL WITH PULL STRINGS AT EACH DATA LOCATION SHOWN ON PLAN. RE: ELEC. PROVIDE MULTIPLE CONDUITS AT IT ROOM WITH PULL STRINGS. OWNER WILL WIRE PHONE AND DATA.
 - INSTALL GROMMET HOLES IN COUNTER TOPS. COORDINATE LOCATION WITH OWNER. PROVIDE AND INSTALL TRIM RINGS FOR HOLES.
 - CONTRACTOR SHALL INSTALL ALL OWNER PROVIDED ROOM SIGNS NEXT TO EACH DOOR.
 - CONTRACTOR IS RESPONSIBLE FOR VISITING THE SITE PRIOR TO BIDDING WITH MECHANICAL, ELECTRICAL AND PLUMBING SUBCONTRACTORS AND BECOME FAMILIAR WITH THE EXISTING CONDITIONS THAT ARE TO REMAIN AND TO BE REMOVED.

- DOOR NOTES AND LEGEND:**
- PROVIDE 1/2" CLEAR BETWEEN BOTTOM OF DOOR AND FLOOR FINISH OR THRESHOLD UNLESS OTHERWISE NOTED.
- DOOR TYPE OR FRAME TYPE
- DOOR NUMBER
- HARDWARE GROUP
- CONTRACTOR TO INSTALL ALL OWNER-PROVIDED OFFICE SYSTEMS FURNITURE AND CABINETS. CONTRACTOR TO INSTALL AND CONNECT ALL PROVIDED POWER AND TELE-DATA WHIPS/CONNECTIONS FOR A FULLY FUNCTIONAL INSTALLATION.
 - CONTRACTOR SHALL PROVIDE AND INSTALL RECEPTION DESK. SEE SHEET A7.0 FOR DETAILS AND A6.0 FOR MATERIAL SPECIFICATIONS.
 - CONTRACTOR TO INSTALL OWNER-PROVIDED ROOM SIGNAGE AT STRIKE SIDE OF DOOR TYP.
 - CONTRACTOR SHALL PROVIDE AND INSTALL ALL COUNTERTOPS PER FINISH SCHEDULE. OWNER SHALL PROVIDE CABINETS. CONTRACTOR SHALL INSTALL AND PLUMB ANY IN-CABINET PLUMBING FIXTURES AND/OR EQUIPMENT.



1 EXISTING & DEMOLITION BUILDING SECTION
3/8"=1'-0"



2 BUILDING SECTION
3/8"=1'-0"

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3/8"=1'-0"

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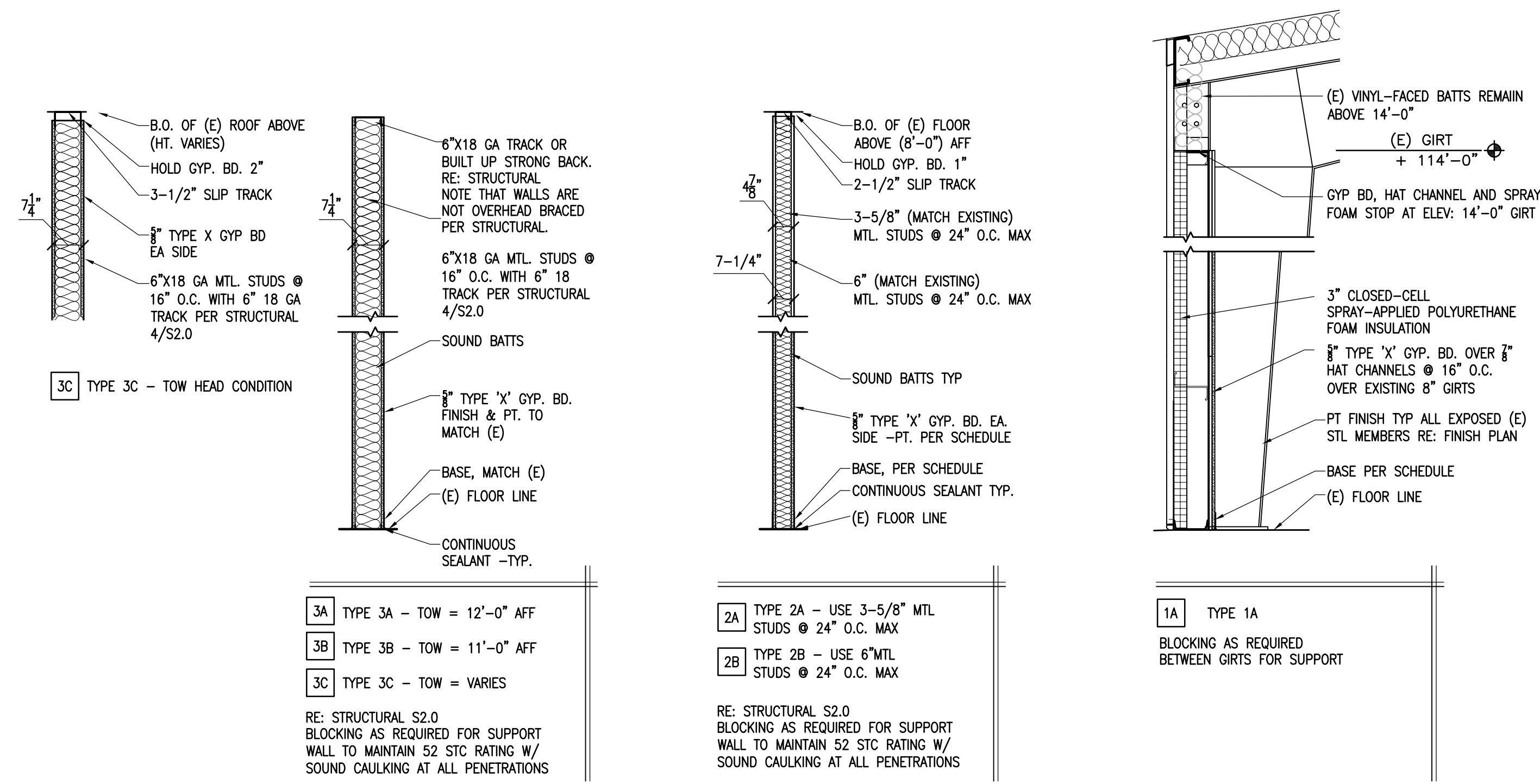
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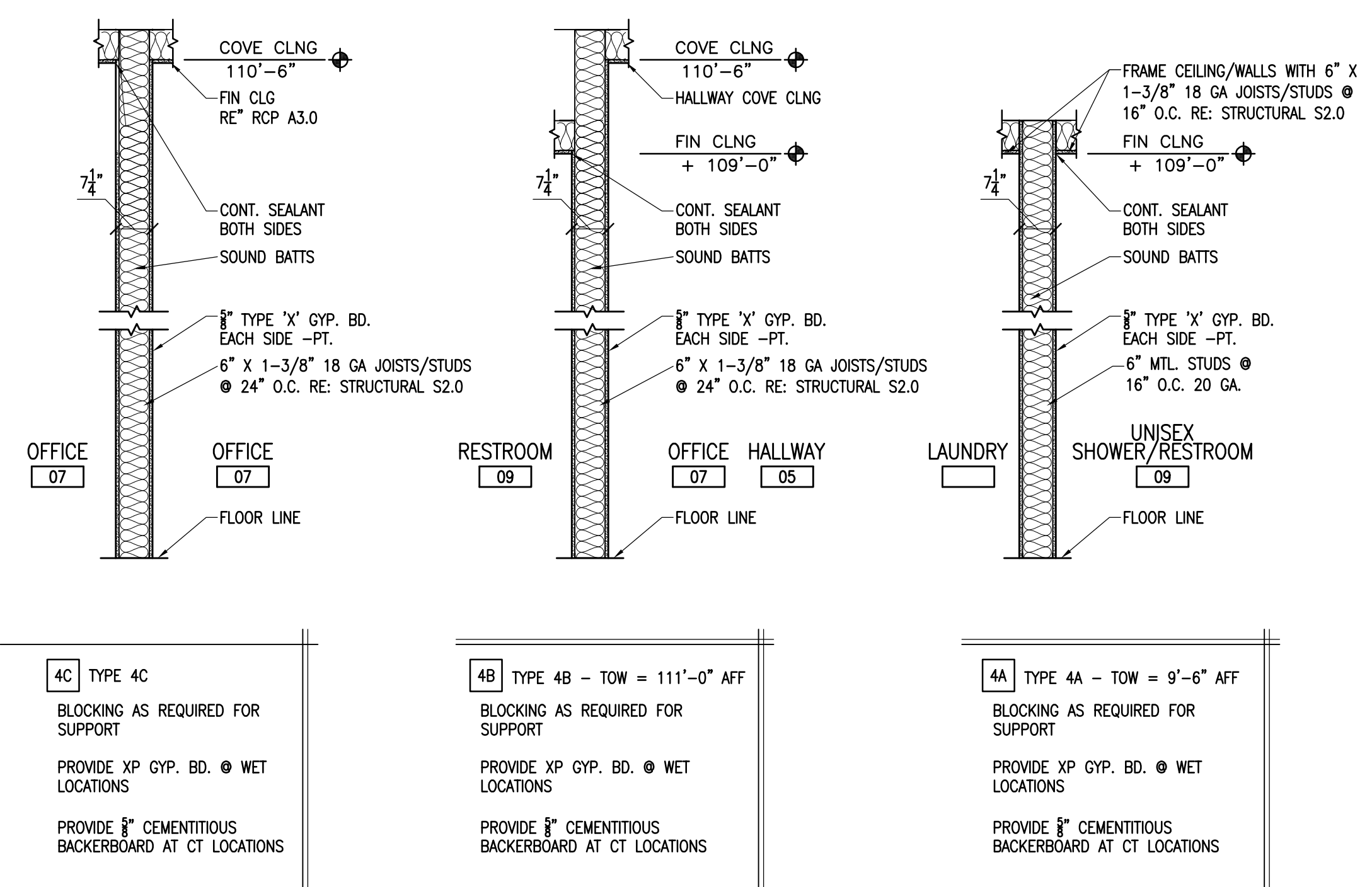
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SECTIONS

A5.0



1 WALL TYPES
SCALE: 1/2"=1'-0"

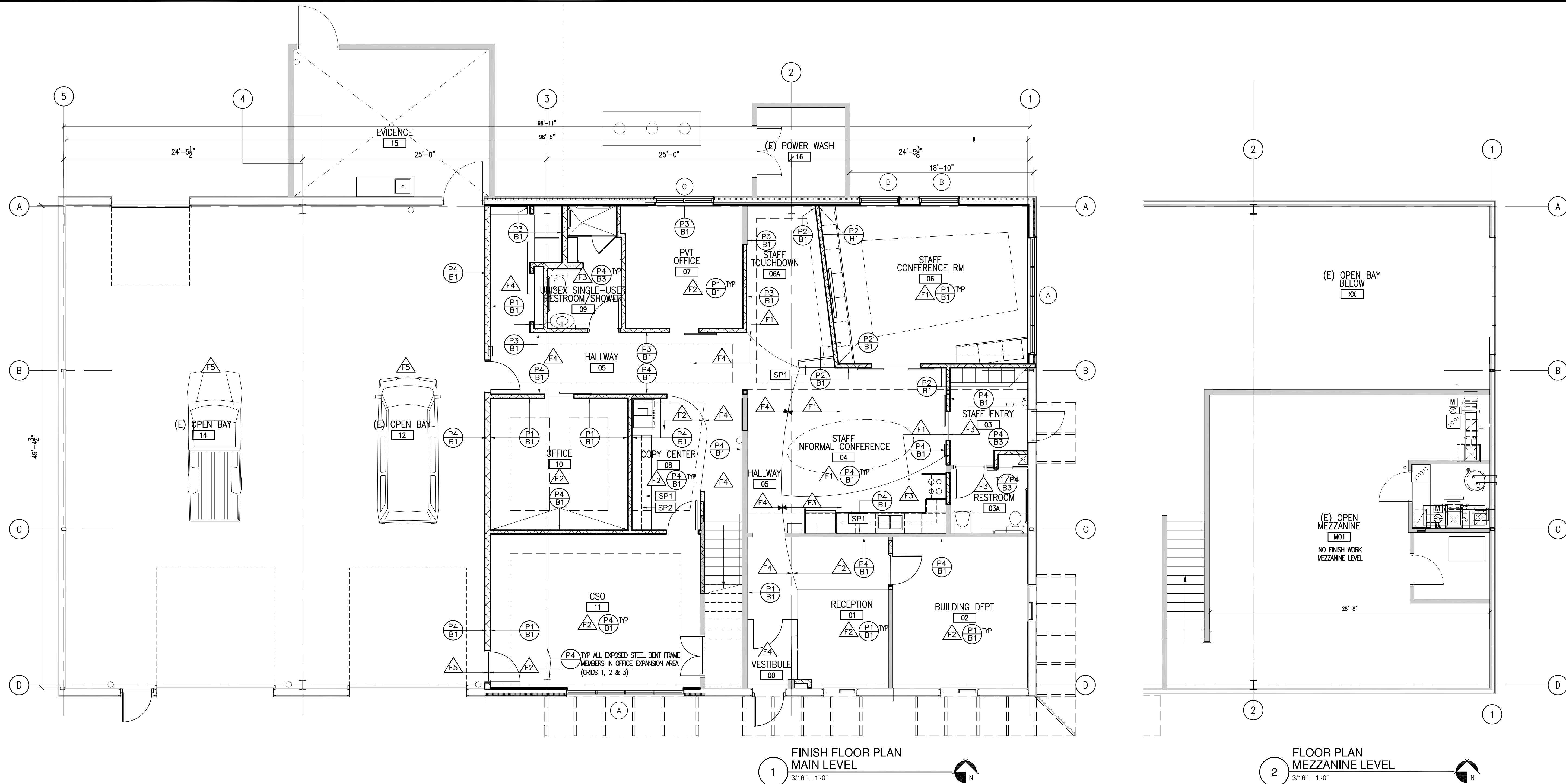


1 WALL TYPES
SCALE: 1/2"=1'-0"

WALL TYPE NOTES	
1.	PROVIDE BLOCKING AS REQUIRED FOR SUPPORT AT ALL WALL & CEILING ASSEMBLIES.
2.	PROVIDE 3/8\"/>

REVISION NAME	DATE

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1 FINISH FLOOR PLAN MAIN LEVEL
3/16" = 1'-0"

2 FLOOR PLAN MEZZANINE LEVEL
3/16" = 1'-0"

GENERAL FINISH NOTES

- THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR ADVISING ALLRED & ASSOCIATES OF ANY QUESTIONS REGARDING THE FINISH SELECTIONS & FINISH SYSTEMS, METHOD OF APPLICATION OR SCOPE OF WORK PRIOR TO PROCEEDING WITH THE WORK IN QUESTION.
- THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR FIELD INSPECTION OF THE SURFACES TO RECEIVE PAINT, ASSURING THAT SUCH SURFACES ARE ACCEPTABLE FOR APPLICATION PRIOR TO INITIATING ACTUAL FINISH WORK. NO PAINT FINISH SHALL BE APPLIED ON ANY SURFACE WHICH IS UNFINISHED OR IMPROPERLY PREPARED OR OTHERWISE NOT FULLY ACCEPTABLE FOR THE FINISH APPLICATION. ALL ROUGHNESS OR OTHER IRREGULARITIES THAT MAY APPEAR AFTER PRIMING SHALL BE THOROUGHLY S&ED OUT OR OTHERWISE CORRECTED TO PROVIDE A SMOOTH & EVEN SURFACE FOR PAINTING & FINISHING. FINISHED APPLICATION & WALL APPEARANCE SHALL BE FREE OF SURFACE & COLOR IRREGULARITIES. BY FINISHING THESE SURFACES THE FINISH CONTRACTOR ACCEPTS THE RESPONSIBILITY FOR THE FINAL PRODUCT.
- APPLICATION FOR ALL PAINTED SURFACES SHALL NOT BE LESS THAN A TWO-COAT SYSTEM, UNLESS OTHERWISE NOTED: USING THE COMPLETE PAINT SYSTEM (PRIMER & FINISH COAT) AS RECOMMENDED BY THE PAINT MANUFACTURER & THE MODERN GUIDE TO PAINT SPECIFICATIONS, LATEST EDITION, AS MINIMUM STANDARDS.
- THE GENERAL CONTRACTOR SHALL UPON COMPLETION REMOVE PAINT FROM WHERE IT HAS SPILLED, SPLASHED OR SPLATTERED ON SURFACES, INCLUDING LIGHT FIXTURES, DIFFUSERS, FITTINGS, ETC. THE GENERAL CONTRACTOR SHALL REMOVE ALL ELECTRICAL SWITCH & OUTLET COVERPLATES & SURFACE HARDWARE BEFORE PAINTING; PROTECTING & REPLACING THE SAME WHEN PAINTING IS COMPLETE.
- SAMPLES OF ALL FINISHES SPECIFIED SHALL BE SUBMITTED TO ALLRED & ASSOCIATES PRIOR TO COMMENCEMENT OF THE WORK.
- ALL WALLS WHICH HAVE BEEN PAINTED WITH A SATIN/SEMI-GLOSS FINISH MUST BE TOUCHED UP AS A PUNCHLIST ITEM SHALL BE REPAINTED ENTIRELY BETWEEN THE TWO CLOSET BREAK POINTS.
- UPON COMPLETION OF WORK, THE GENERAL CONTRACTOR SHALL REMOVE FROM THE PREMISES ALL WASTE MATERIALS AS GENERATED BY THE DELIVERY OF ALL MATERIALS.
- THE GENERAL CONTRACTOR IS RESPONSIBLE TO PROTECT AS REQUIRED ALL OWNER OCCUPIED AREAS WHERE FINISH WORK OR GENERAL CONSTRUCTION IS TO BE PERFORMED.
- THE GENERAL CONTRACTOR SHALL FLASH PATCH & PREPARE ALL FLOORS AS REQUIRED TO RECEIVE SPECIFIED FLOOR MATERIAL.
- THE CARPET CONTRACTOR SHALL INSPECT THE SUBFLOOR PRIOR TO COMMENCEMENT OF THE WORK. THEY SHALL NOTIFY ALLRED & ASSOCIATES IN WRITING OF ANY CONDITIONS WHICH WILL PREVENT HIM FROM PRODUCING SATISFACTORY FINISH WORK.
- FLOORS MUST BE FREE OF DUST, OIL & ALL FOREIGN MATTER. BUILDING MUST BE PRE-HEATED TO A MINIMUM OF 65 DEGREES FAHRENHEIT, 24 HOURS PRIOR TO INSTALLATION. CRACKS 1/16" OR MORE, HOLES & OTHER UNEVENNESS MUST BE FILLED WITH A LATEX BASE FLOOR FILLER; HIGH SPOTS MUST BE LEVELED. FLOOR MUST BE SWEEP CLEAN, WET MOPPED WITH WARM WATER & SWEEP AGAIN. IF SWEEPING LEAVES A RESIDUE, FLOORS SHALL BE VACUUMED.
- THE CARPET CONTRACTORS SHALL ASSUME FULL RESPONSIBILITY FOR ANY UNACCEPTABLE FINISH WORK CAUSED BY SUBFLOOR CONDITIONS.
- THE GENERAL CONTRACTOR SHALL THOROUGHLY CLEAN ALL RUBBER BASE AFTER INSTALLATION IS COMPLETED.
- INSTALL SCHLUTER TRANSITION STRIPS AT ALL TRANSITIONS.
- THE CARPET CONTRACTOR IS TO PROVIDE & INSTALL ALL NECESSARY VINYL REDUCING STRIPS &/ OR METAL SADDLES AS REQUIRED AT ALL CARPET/MATERIAL TRANSITION POINTS. COLOR SPECIFICATION BY ALLRED & ASSOCIATES.
- CARPETS SHALL BE LAID WITH TIGHT BUTT SEAMS LAID TRUE WITH AN APPROVED BR& OF WATERPROOF QUICK RELEASE CEMENT IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.
- SPOTS &/OR SMEARS OF CARPET CEMENT SHALL PROMPTLY BE REMOVED WITH APPROVED SOLVENT.
- ALL EXCESS PIECES OF USABLE CARPET SHALL BE STACKED, TAGGED & LEFT WITH THE OWNER FOR FUTURE USE.
- THE GENERAL CONTRACTOR SHALL THOROUGHLY VACUUM CLEAN ALL CARPETED AREA AFTER INSTALLATION IS COMPLETE, & SHALL MAINTAIN CONDITION THROUGH TENANT'S MOVE-IN.
- ALL TILE SEALANT TO BE WATER-BASED, NON-EPOXY, HEAVY DUTY COATING.
- PROVIDE SCHLUTER DILEX-HK COVE AT PORCELAIN WALL TO FLOOR TRANSITION AT ALL TOILET ROOMS.
- ALL FINISHED GYP BD WALLS SHALL BE FINISHED TO A LEVEL 4 FINISH.
- EXTEND FINISH UNDER BASE CABINETS UNO.
- INSTALL ALL MATERIALS PER MANUFACTURERS RECOMMENDATIONS.
- BONDO, SAND & PAINT ALL EXPOSED BEAMS, PLATES & TUBE STEEL.

FINISH SCHEDULE

FLOOR FINISH SPECIFICATION:	WALL FINISH SPECIFICATION:	WALL BASE SPECIFICATION:	CEILING FINISH SPECIFICATION:
F1 CARPET 1: 12X48 DIRECT GLUE DOWN MAN. BY: PATCHKRAFT STYLE: ABERDEEN 10455; COLOR: GEARY 00525	P1 PRIMARY WALL PAINT FINISH: BENJAMIN MOORE COLOR: SOFT CHAMOIS OC-13; SATIN	B1 4" RUBBER BASE MAN. BY: ROPPE COLOR: BLACK 100	C1 PAINT FINISH: ALL PAINTABLE CEILINGS RECEIVE: BENJAMIN MOORE COLOR: MOUNTAIN PEAK WHITE; 2148-70; SATIN.
F2 CARPET 2: 12X48 DIRECT GLUE DOWN MAN. BY: PATCHKRAFT STYLE: TBD TILE COLOR: TBD	P2 ACCENT WALL PAINT FINISH BENJAMIN MOORE COLOR: CAROLINA GULL 2138-40; SATIN	B2 4" RUBBER BASE MAN. BY: ROPPE COLOR: TBD	C2 PAINT FINISH: ALL PAINTABLE UPPER PERIMETER COVE CEILINGS RECEIVE: BENJAMIN MOORE COLOR: BLACK SATIN; SATIN.
F3 PORCELAIN TILE MAN. BY: ARIZONA TILE RECTIFIED PORCELAIN TILE 12X24 COLOR: CITY LIFE ASH; LFT/LHT MORTAR	P3 ACCENT WALL PAINT FINISH BENJAMIN MOORE COLOR: LIGHT KHAKI 2148-40; SATIN	B3 TILE: 3"x12" BULLNOSE TILE BASE W/ SCHLUTER DILEX-HK COVE. TOP OF TILE BASE TO BE 4" A.F.F. TYPICAL AT ALL WALLS WITHOUT WALL TILE. MAN. BY ARIZONA TILE; ETHOS COLOR: BEIGE. GROUT: MAN. BY LATICRETE. COLOR: -- ALL TILE TO BE SEALED WITH (1) COAT NON-EPOXY SEALER.	C3 TBD
F4 LVT: 18"x18" LUXURY VINYL TILE MAN. BY: MANNINGTON COMMERCIAL; NATURE'S PATHS-STONE STYLE: TBD COLOR: TBD	P4 ACCENT WALL PAINT FINISH BENJAMIN MOORE COLOR: MANTUCKET GREY HC-111; SEMI-GLOSS & SATIN		SP1 QUARTZ COUNTERTOP, CAMBRIA 3 CM COLOR: WOODCRAFT; CAMBRIA MATTE FINISH
F5 CONCRETE SEALER: SILOXANE WATER-BASED SEALER	P5 ACCENT WALL & CEILING PAINT FINISH BENJAMIN MOORE COLOR: MOUNTAIN PEAK WHITE 2148-70; SATIN		SP2 P-LAM. BASE AND UPPER CABINETS MAN. BY: WILSONART LAMINATE. BASE COLOR: TBD UPPER COLOR: TBD
T1 PORCELAIN TILE: MAN. BY: ARIZONA TILE RECTIFIED PORCELAIN TILE 12X24 TO 48" AFF W/ 3X12 BULLNOSE CAP AT TOP OF WAINSCOT COLOR: CITY LIFE ASH; LFT/LHT MORTAR			SP3 ALTERNATE COUNTERTOP P-LAM. COUNTERTOP w/4" BACKSPLASH MAN. BY: WILSONART LAMINATE. COLOR: TBD;

FINISH PLAN SPECIFIC NOTES

- ALL WOOD DOORS TO BE STAINED BLACK WITH A CLEAR FINISH TOPCOAT. RE: DOOR SCHEDULE.
- ALL SLIDING DOOR FINISHED OPENINGS TO RECEIVE SS SATIN FINISH CORNER GUARDS TO 48" AFF ON BOTH SIDES & CORNERS OF THE OPENING (4 TOTAL PER OPENING)
- PROVIDE LOW PROFILE SCHLUTER TRANSITION STRIPS AT ALL TILE/CARPET TRANSITIONS.
- EXISTING CONCRETE SLAB TO BE PREPARED TO RECEIVE NEW FINISHES. CLEAN & FILL CRACKS. VERIFY MOISTURE CONTENT IS BELOW FINISH MATERIAL INSTALLATION REQUIREMENTS. IF SLAB SLOPE IS > 1/8"/FT., LEVEL SLAB. NOTE THAT SLAB AREAS RECEIVING NEW FINISHES WERE USED AS VEHICLE BAYS AND SUBJECTED TO VARIOUS AUTOMOTIVE CONTAMINANTS.
- ALL EXPOSED MECHANICAL, ELECTRICAL & PLUMBING IN OFFICE EXPANSION AREA ARE PAINTED P1 SEMI-GLOSS. ALL EXISTING EXPOSED STRUCTURE (BENT FRAME COLUMN/BEAM & EXPOSED WIND GIRTS) IN OFFICE EXPANSION AREA TO BE PAINTED P4 SEMI-GLOSS

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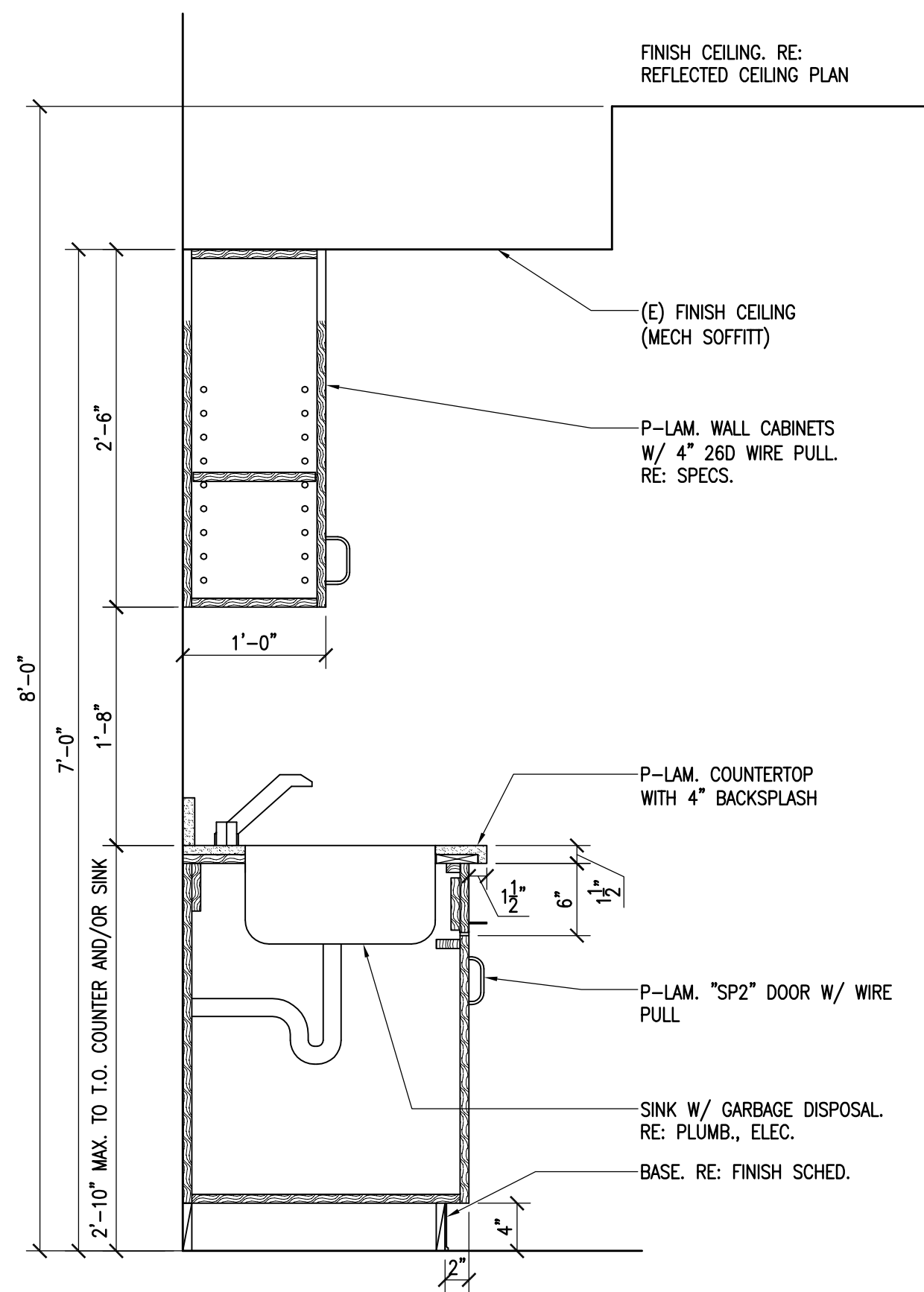
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FINISH PLAN &

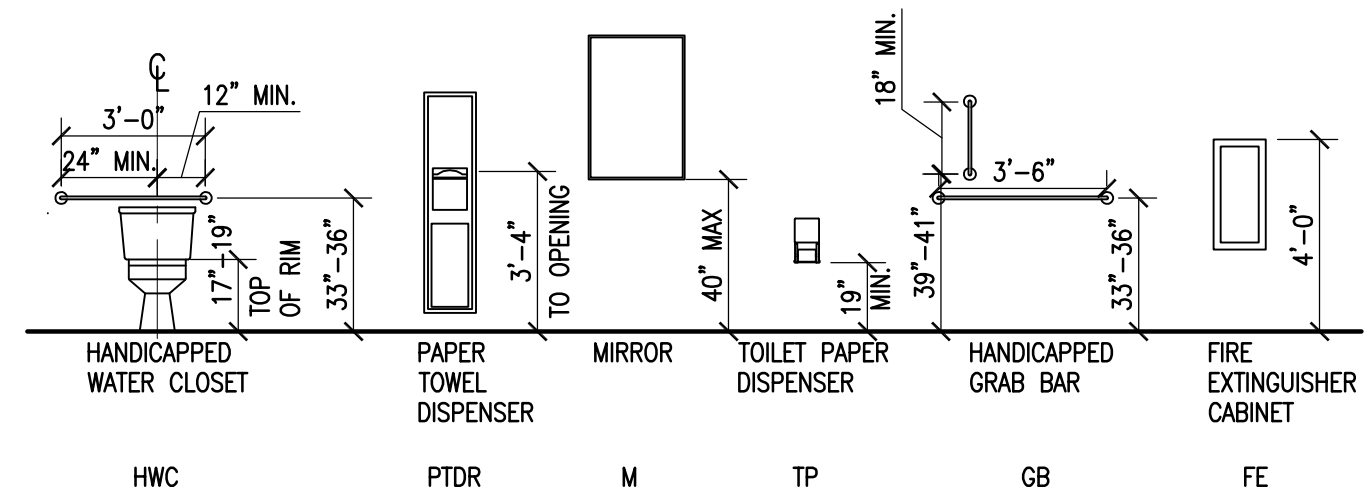
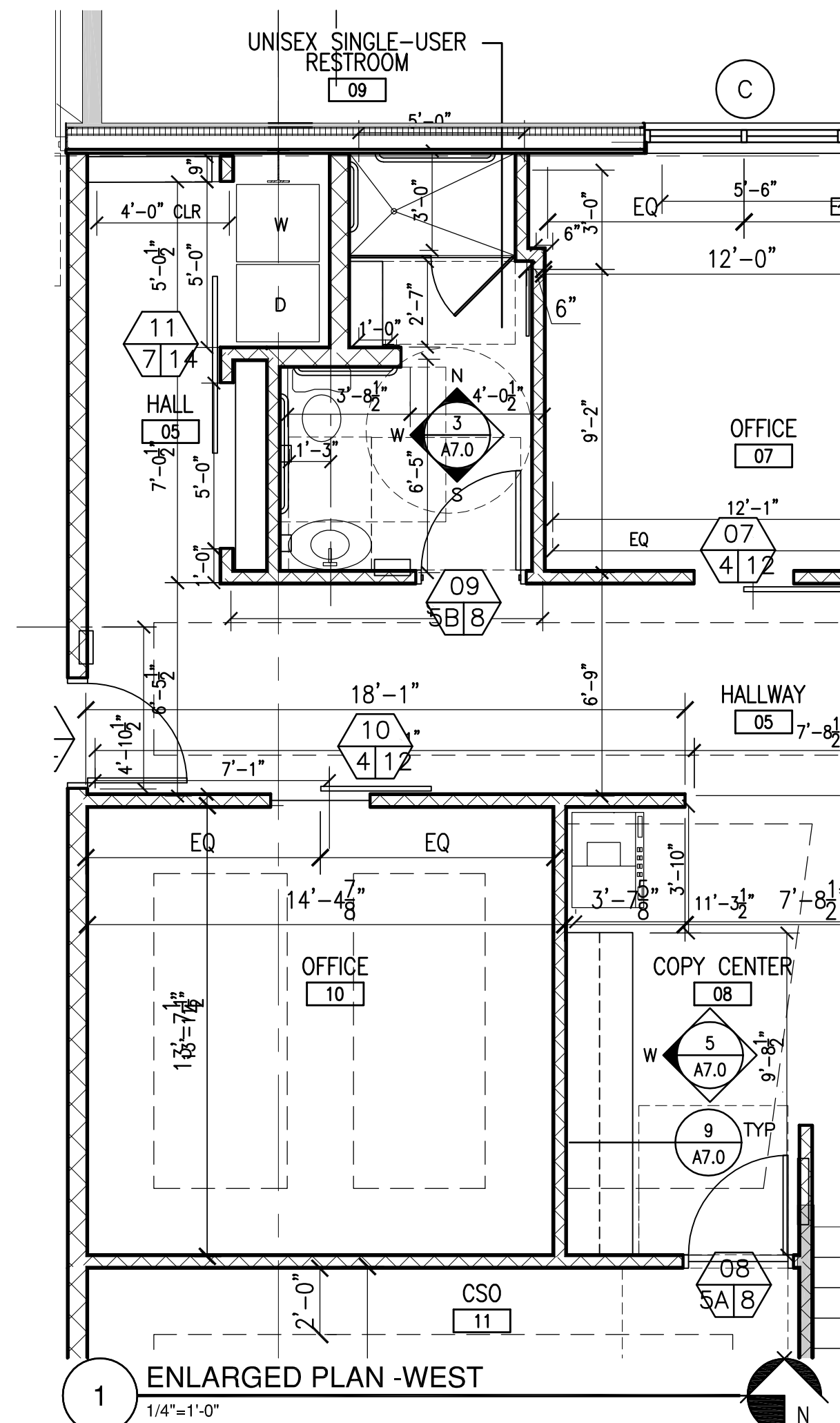
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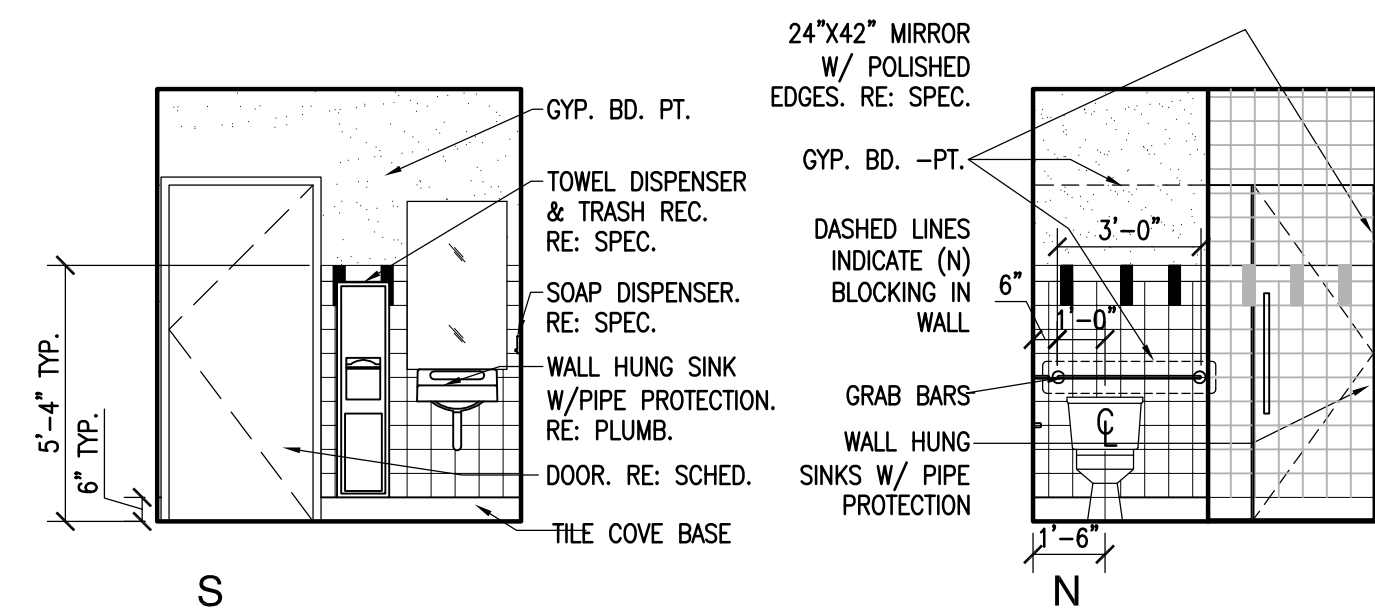
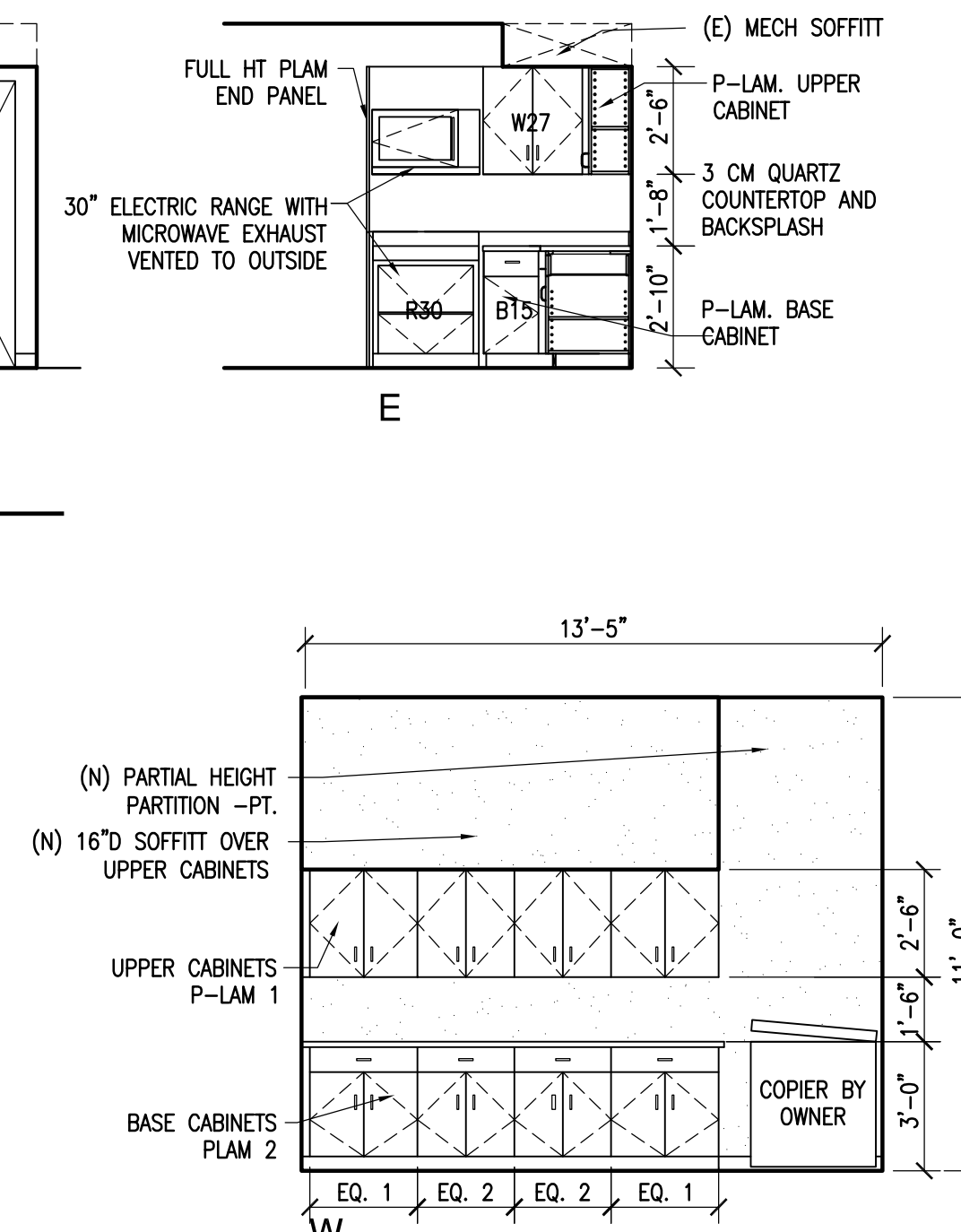
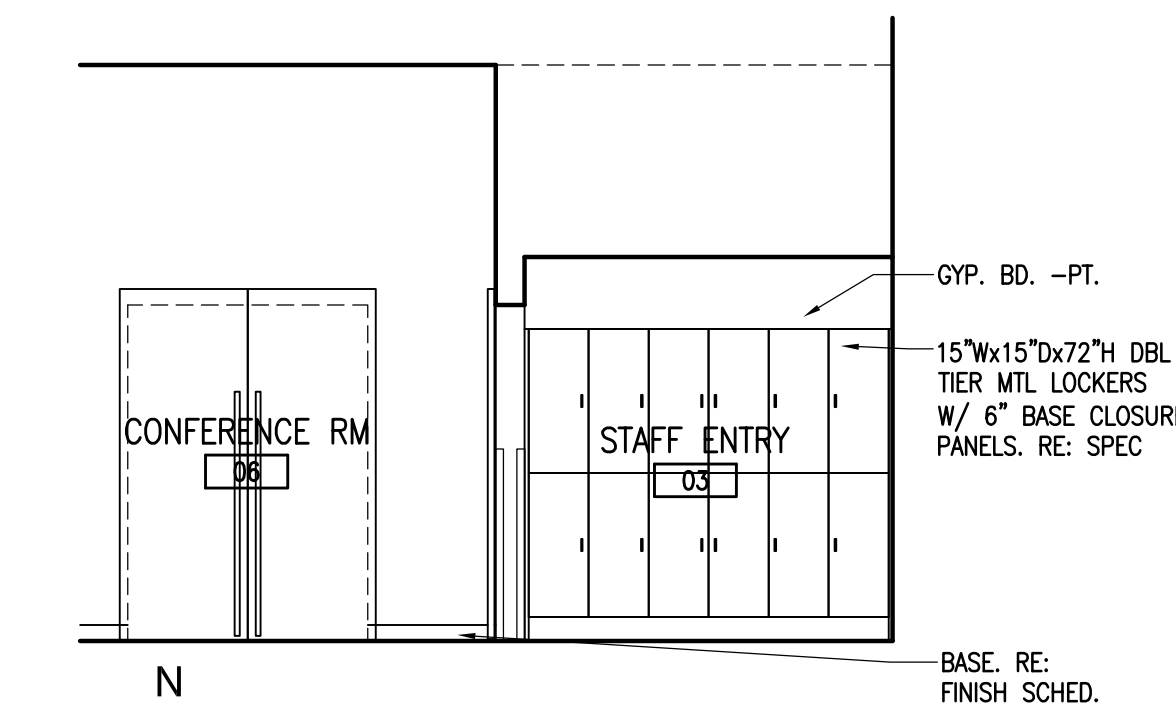
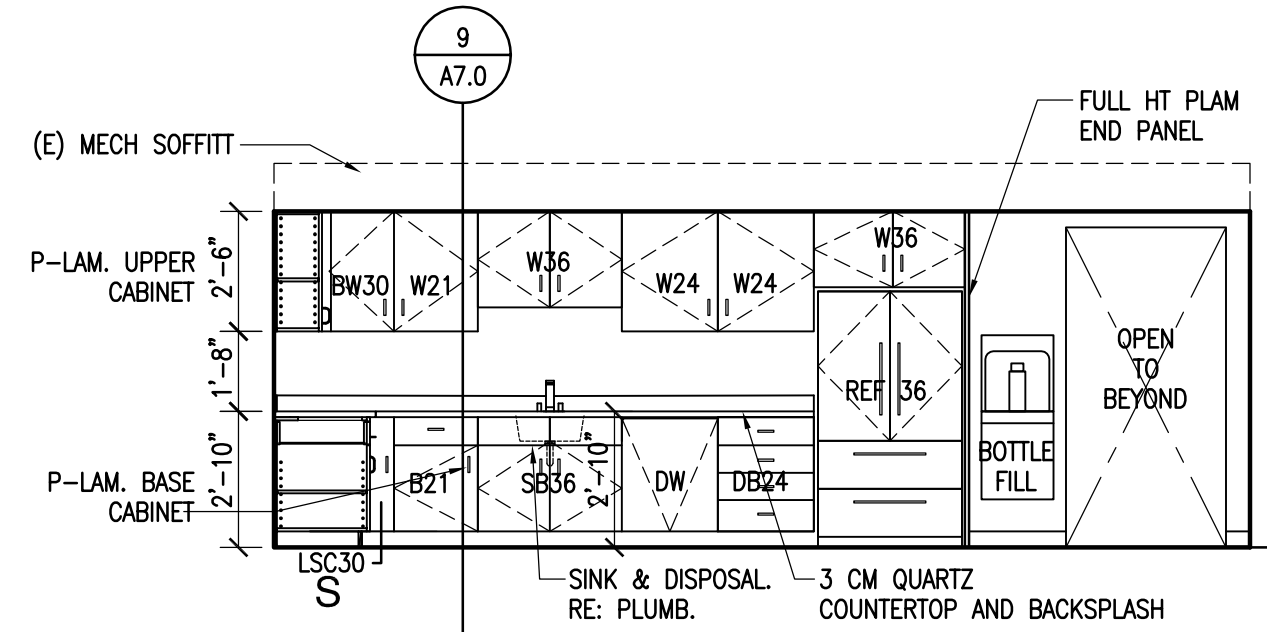
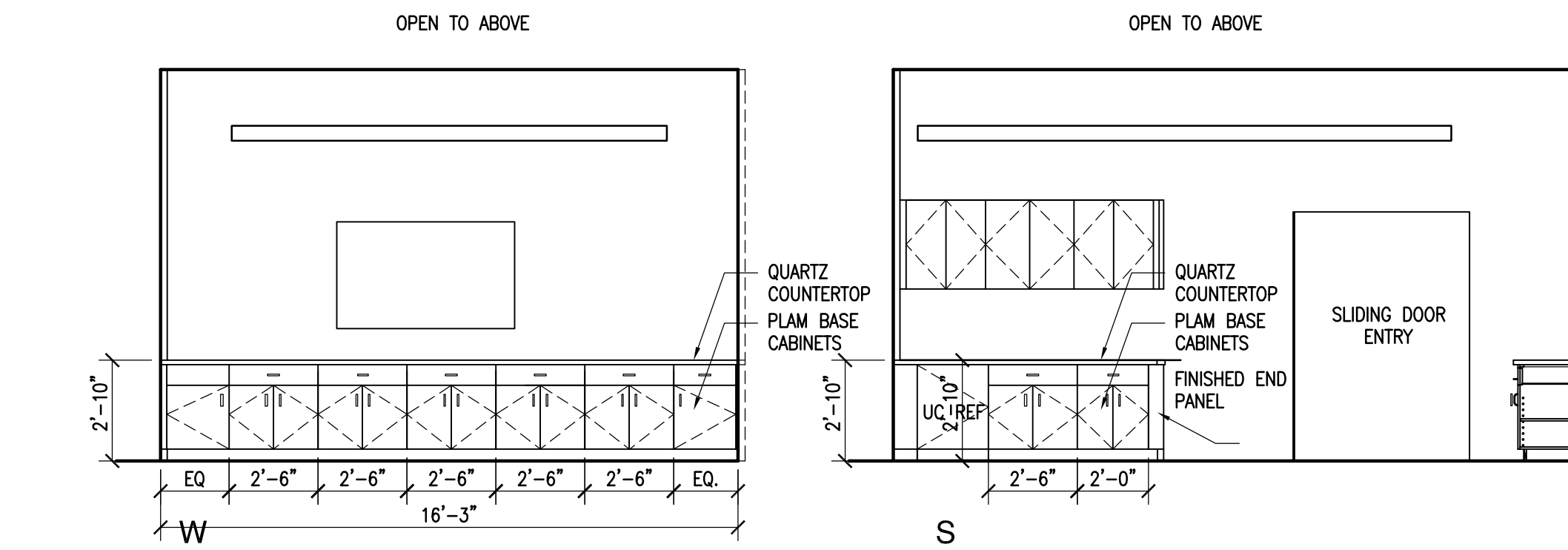
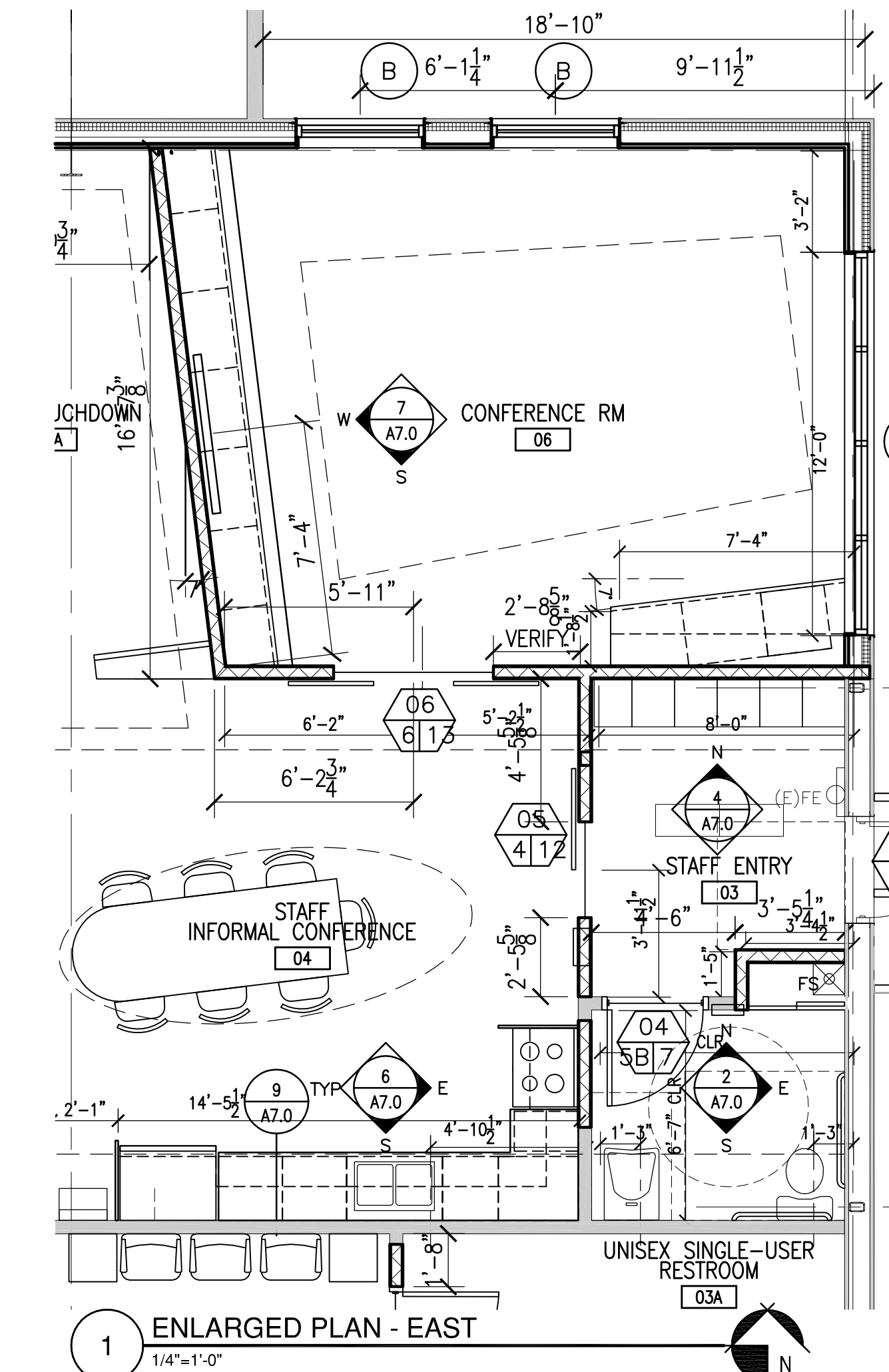
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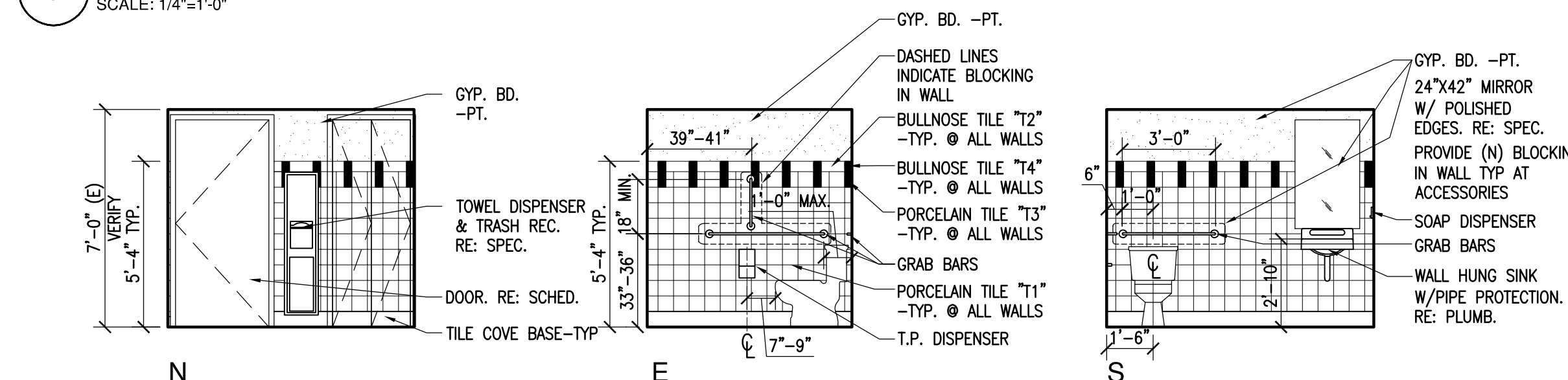
9 CASEWORK DETAIL - BREAK ROOM 104
SCALE: 1"=1'-0"



- ALL CABINETS WITH EXPOSED SIDES SHALL HAVE FINISHED END PANELS
- ALL CABINET DRAWERS AND DOORS SHALL HAVE WIRE PULLS
- ALL CABINET DOORS SHALL HAVE OFFSET CONCEALED EUROPEAN HINGES
- ALL BASE CABINETS SHALL HAVE ONE ADJUSTABLE SHELF PER CABINET -TYP. AND ALL UPPER WALL CABINETS SHALL HAVE TWO ADJUSTABLE SHELVES PER CABINET -TYP. U.O.N.
- FOR SINK INFORMATION SEE PLUMBING DRAWINGS
- FOR LIGHT FIXTURE INFORMATION SEE ELECTRICAL DRAWINGS
- COORDINATE GROMMET LOCATIONS IN COUNTERS & DESKS WITH OWNER
- PROVIDE BLOCKING AT WALL ACCESSORIES.
- OVERHANG ALL COUNTERTOPS 1-3/4" FROM CASEWORK
- ALL SOAP DISPENSERS ARE TO BE SET INTO SINKS
- MITER CUT ALL TILE EDGES AT ALL EXTERIOR CORNERS.
- MOUNT ALL ACCESSIBLE PLUMBING FIXTURES, COUNTERTOPS & TOILET ROOM ACCESSORIES TO COMPLY WITH ANSI A117.1 STANDARDS WHERE REQUIRED.



3 INTERIOR ELEVATION - TOILET ROOM 09
SCALE: 1/4"=1'-0"

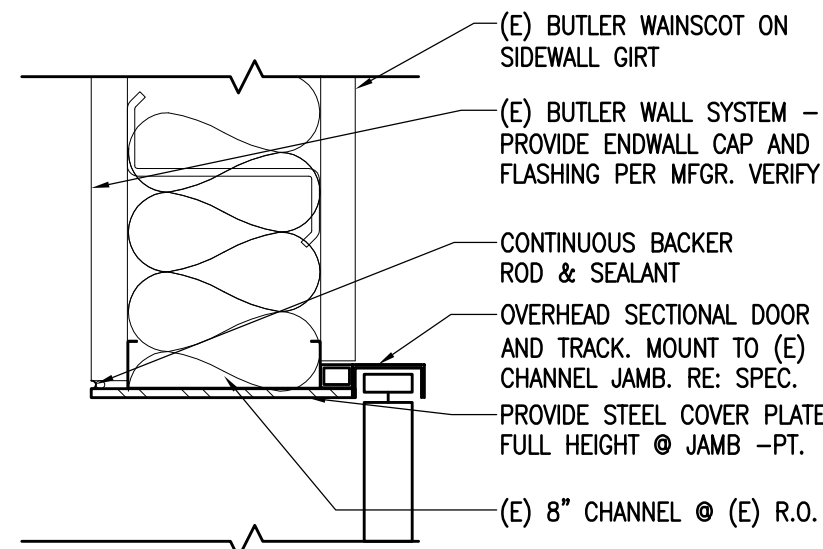


2 INTERIOR ELEVATION - TOILET ROOM 103A
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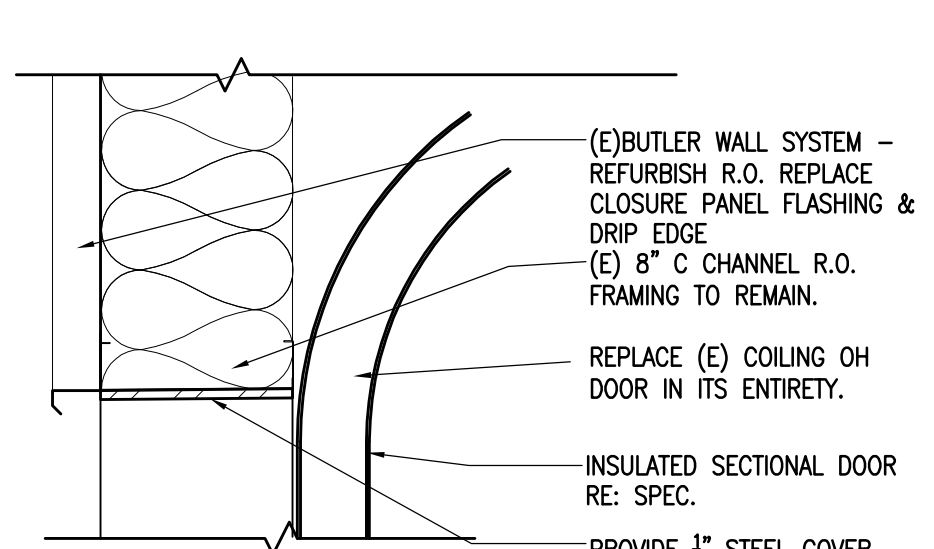
NOTE: EXISTING 7'-0" CEILING

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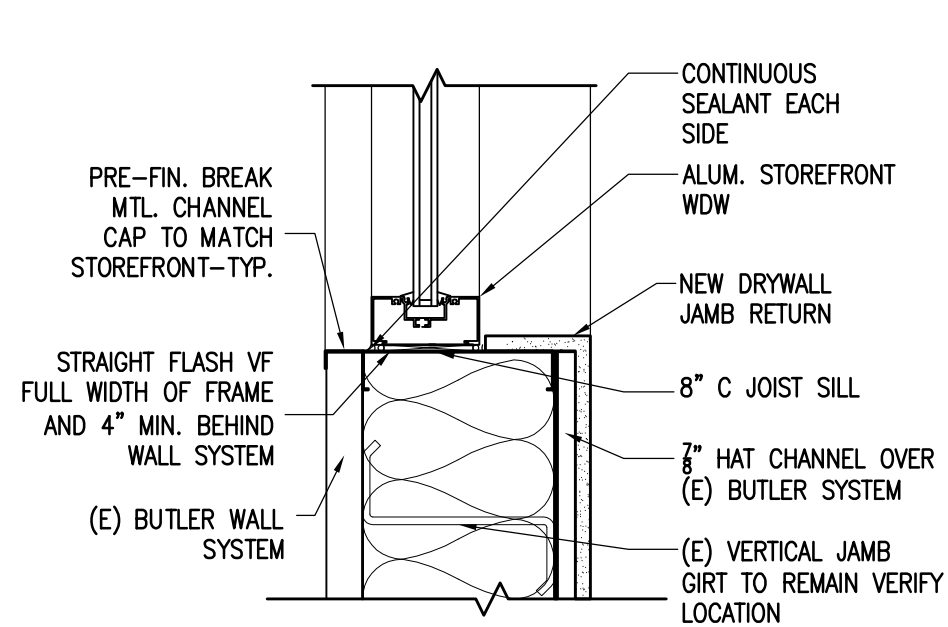
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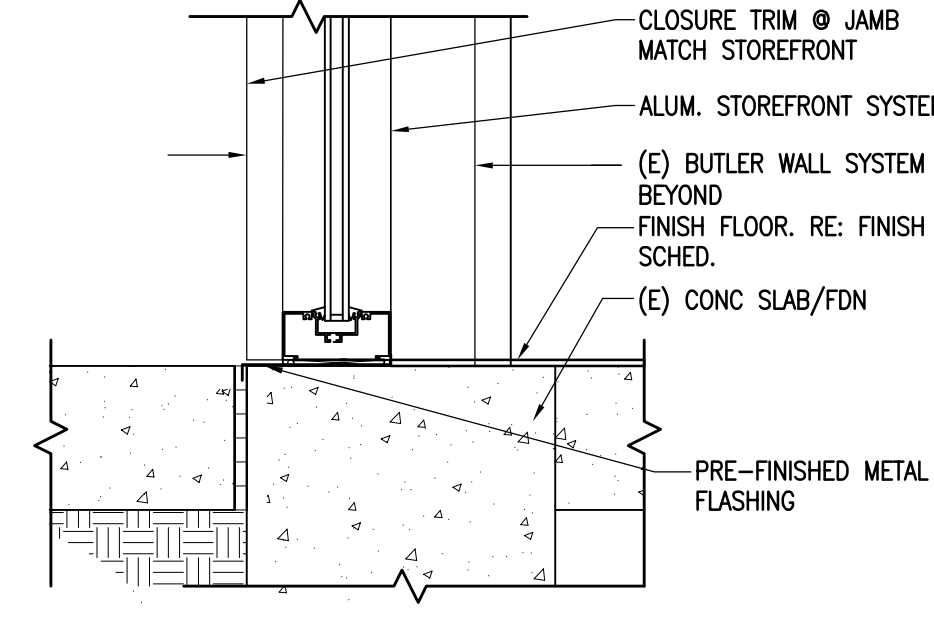
14 OVERHEAD DOOR JAMB DETAIL
SCALE: 1-1/2" = 1'-0"



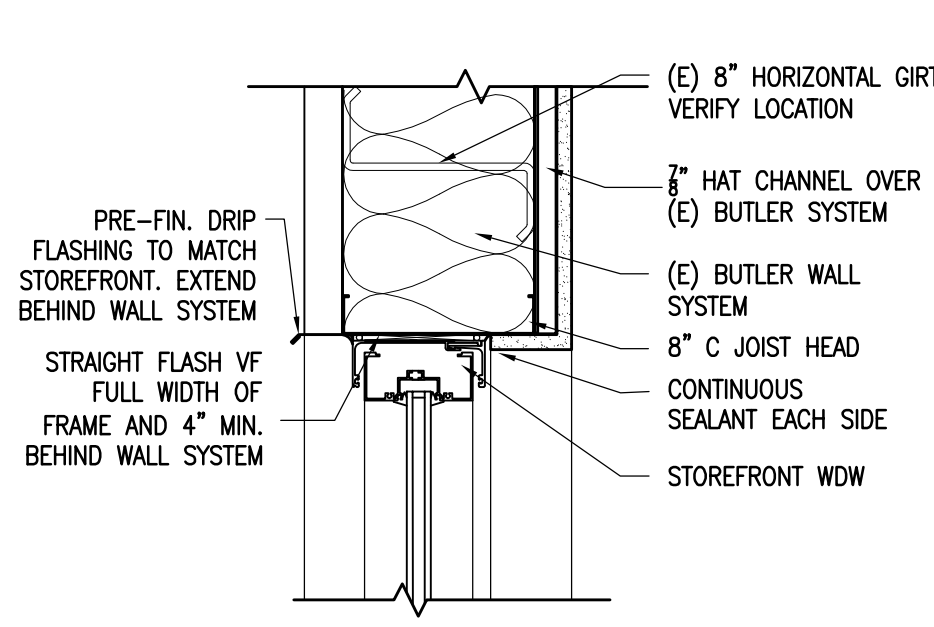
13 OVERHEAD DOOR HEAD DETAIL
SCALE: 1-1/2" = 1'-0"



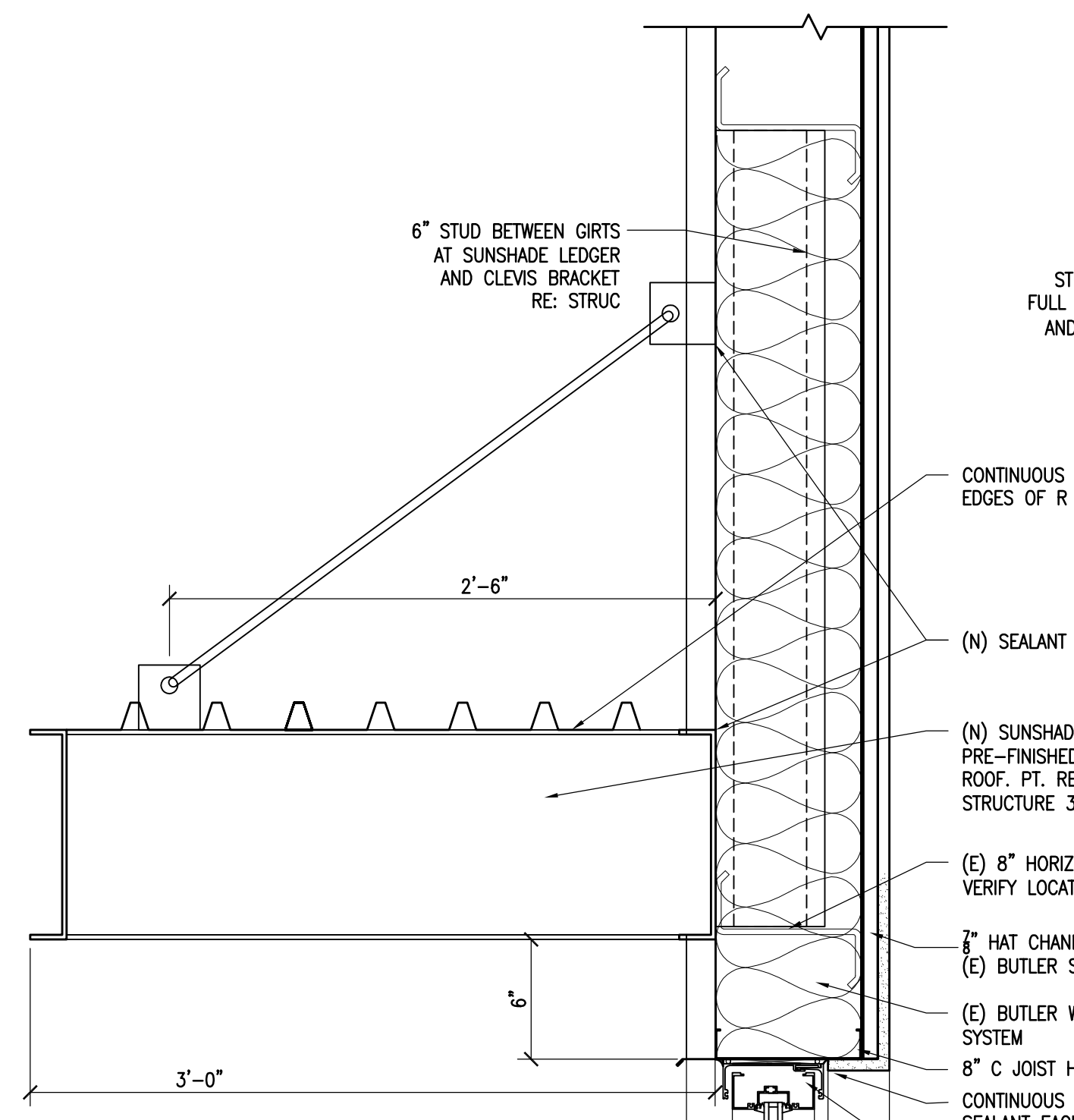
11 JAMB DETAIL
SCALE: 1-1/2" = 1'-0"



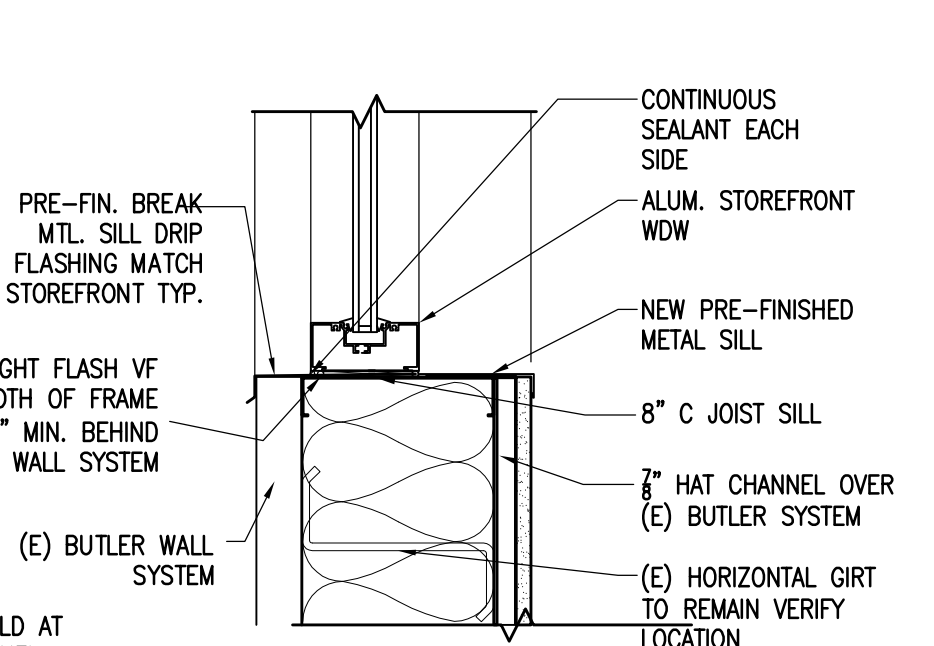
10 STOREFRONT SYSTEM THRESHOLD DETAIL
SCALE: 1-1/2" = 1'-0"



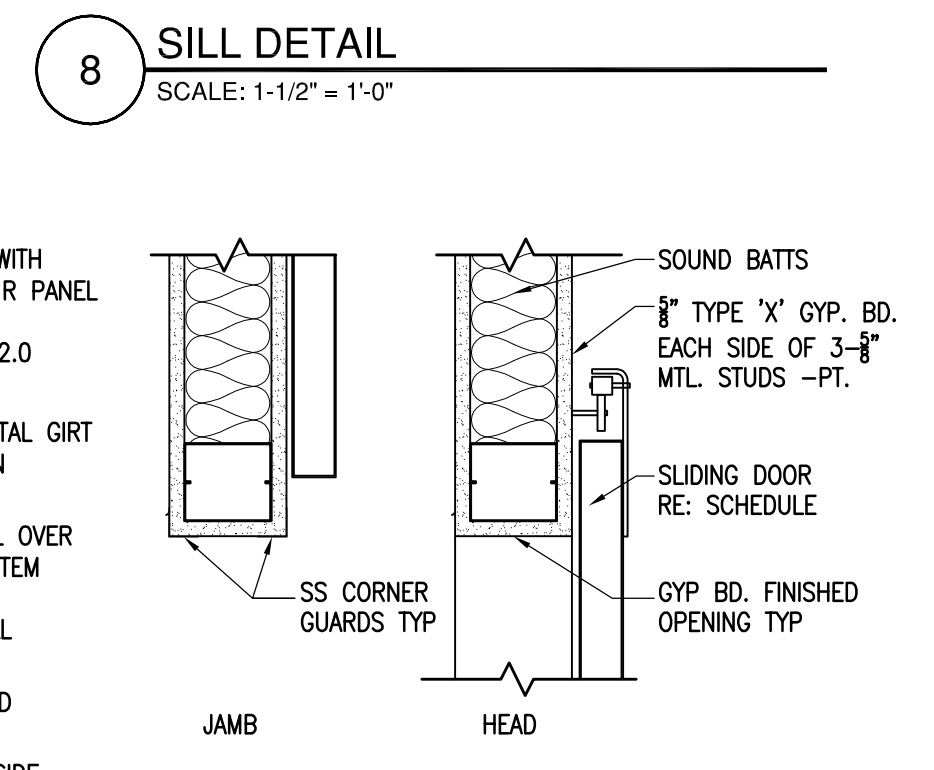
9 HEAD DETAIL
SCALE: 1-1/2" = 1'-0"



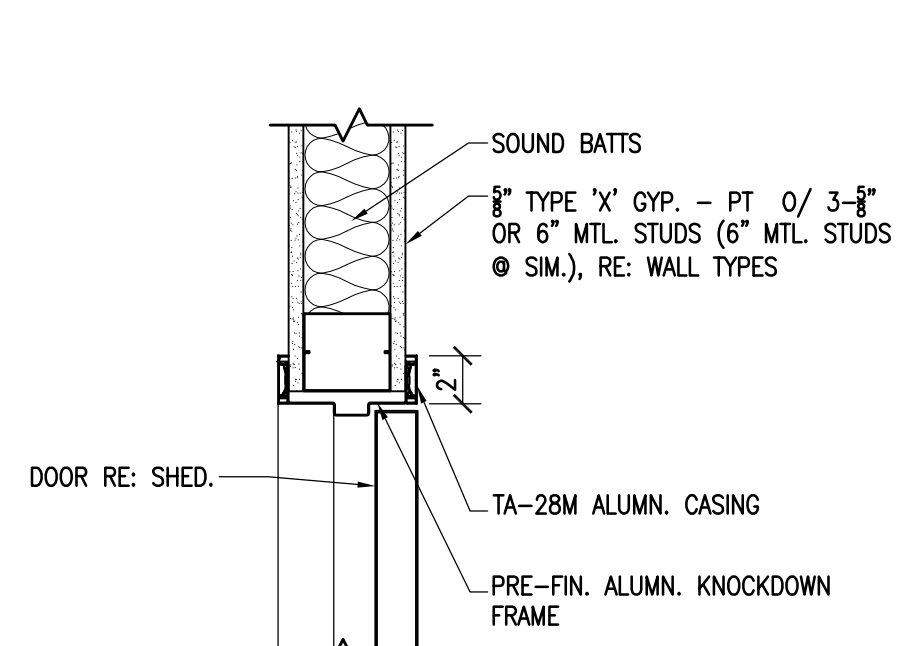
5 SUN SHADE HEAD DETAIL
SCALE: 1-1/2" = 1'-0"



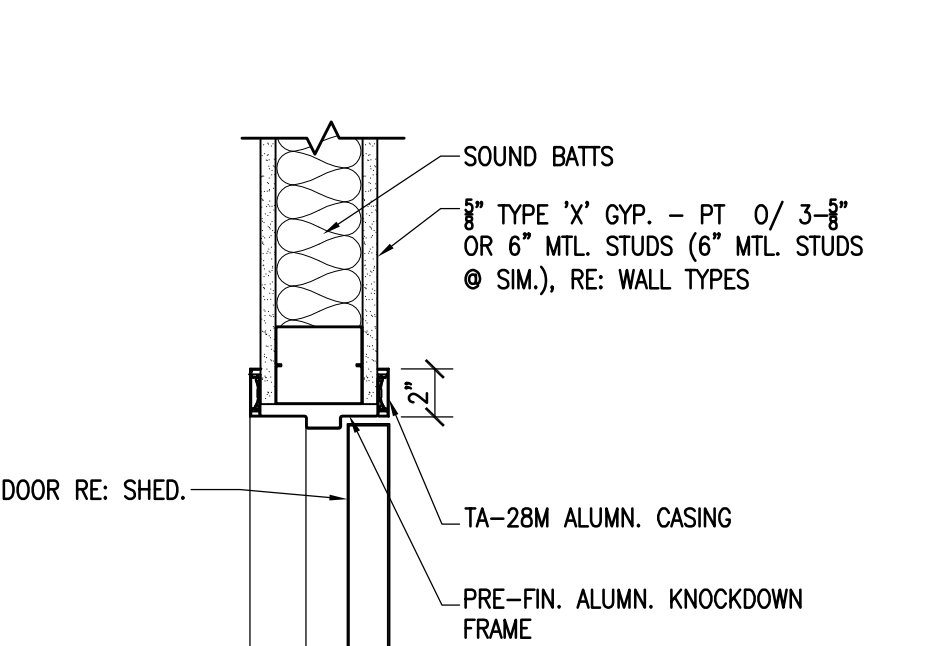
8 SILL DETAIL
SCALE: 1-1/2" = 1'-0"



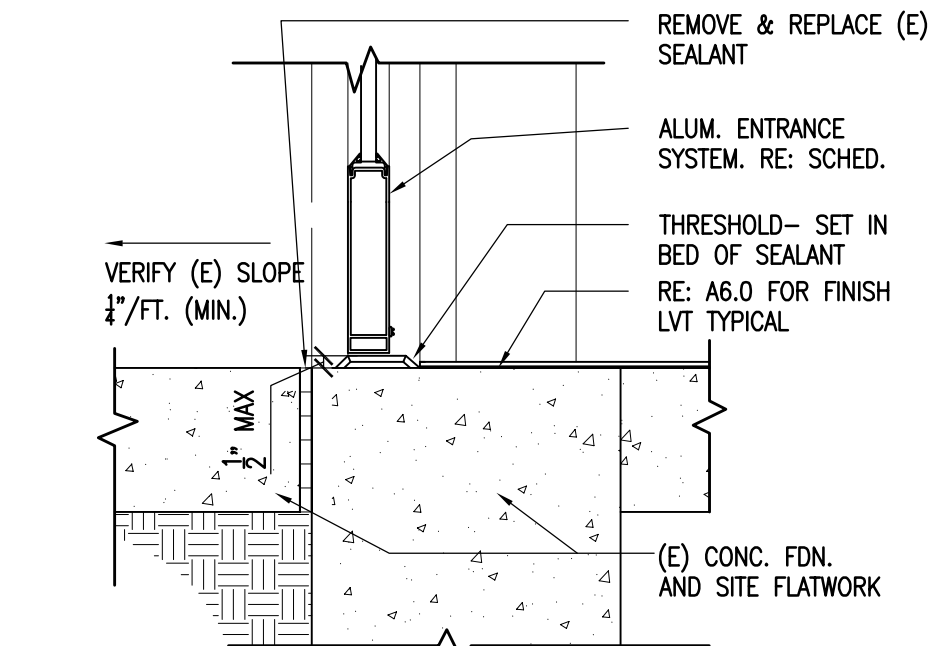
4 SLIDING DOOR HEAD & JAMB DETAIL
SCALE: 1-1/2" = 1'-0"



3 JAMB DETAIL
SCALE: 1-1/2" = 1'-0"



2 HEAD DETAIL
SCALE: 1-1/2" = 1'-0"

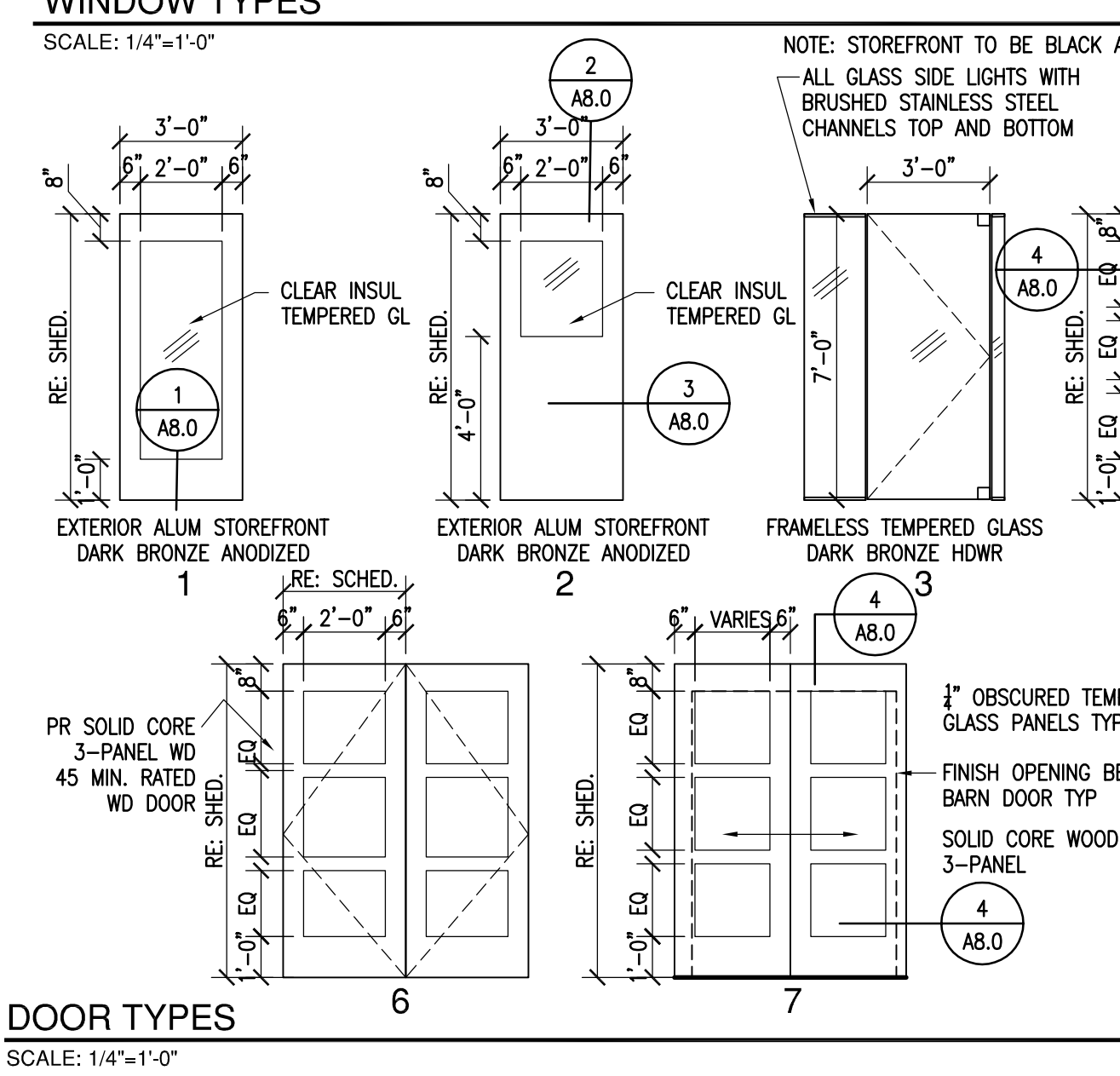
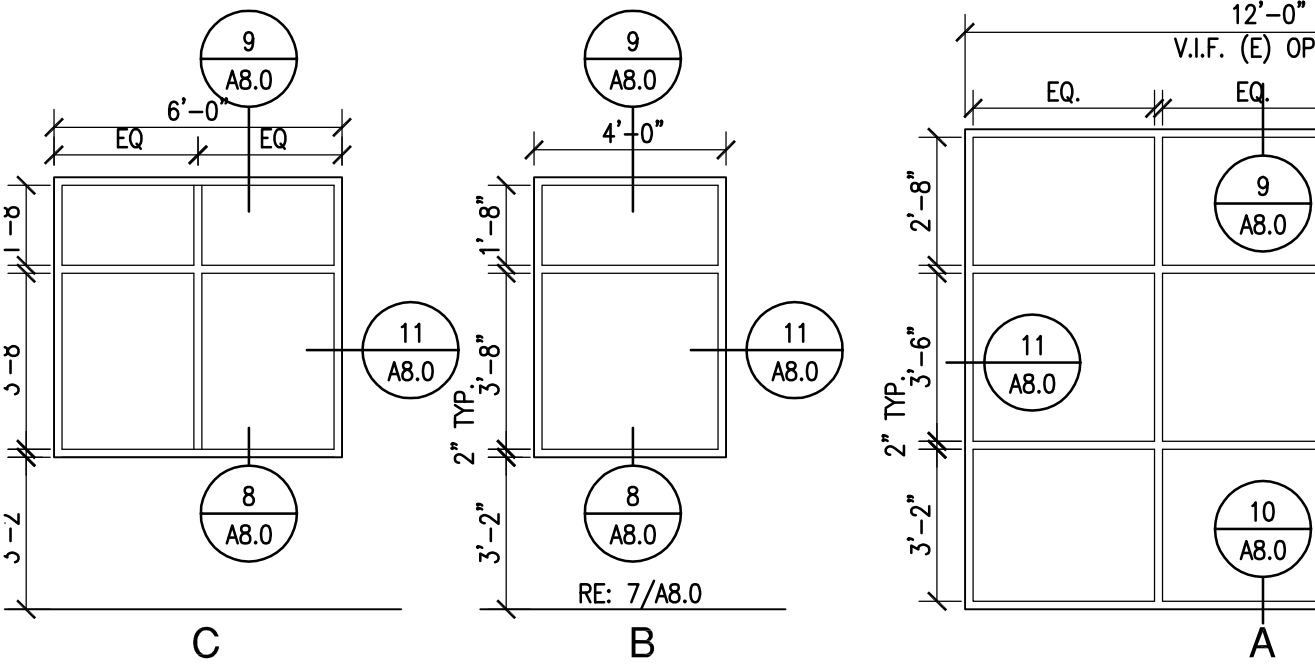


1 STOREFRONT ENTRY THRESHOLD DETAIL
SCALE: 1-1/2" = 1'-0"

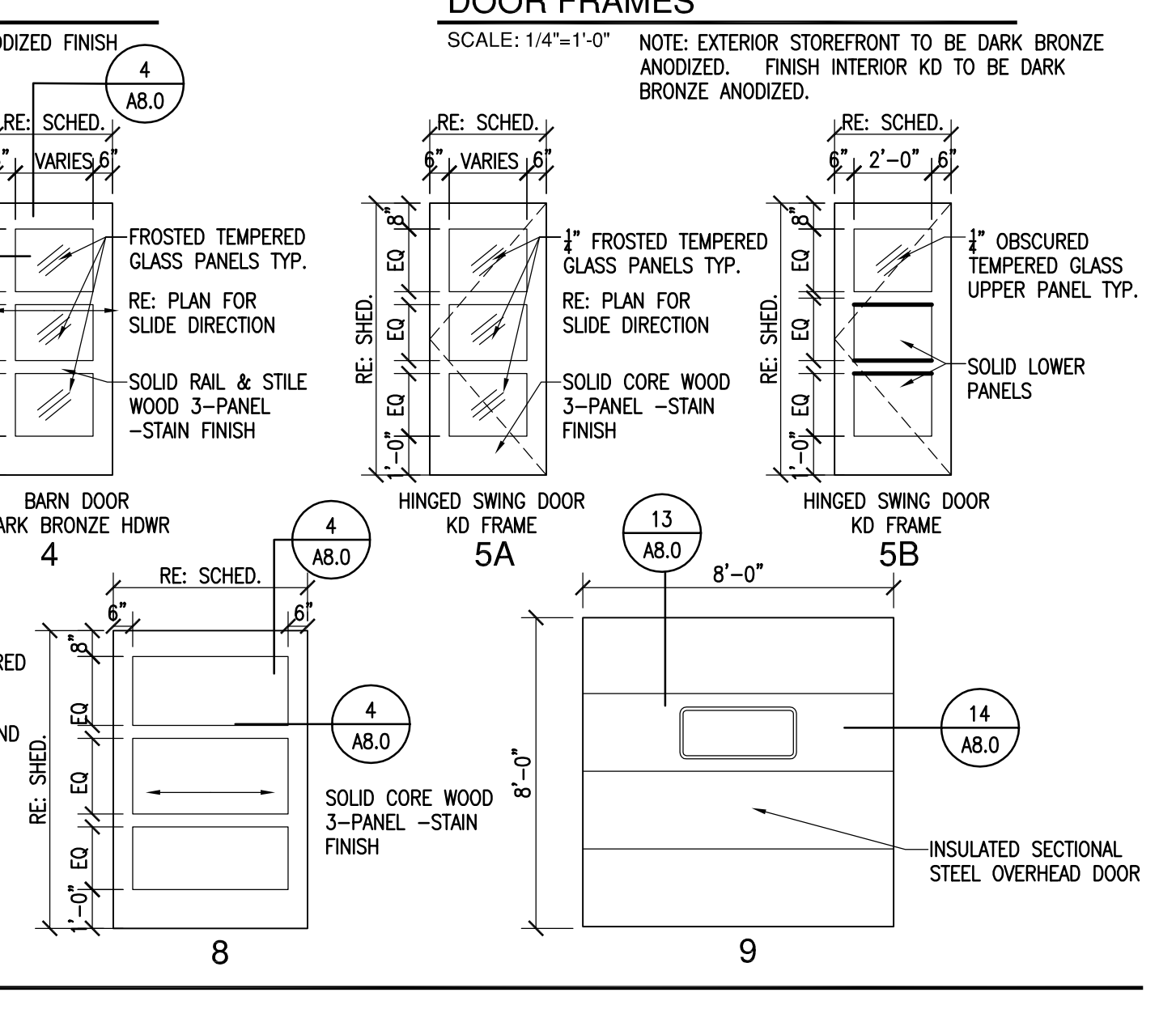
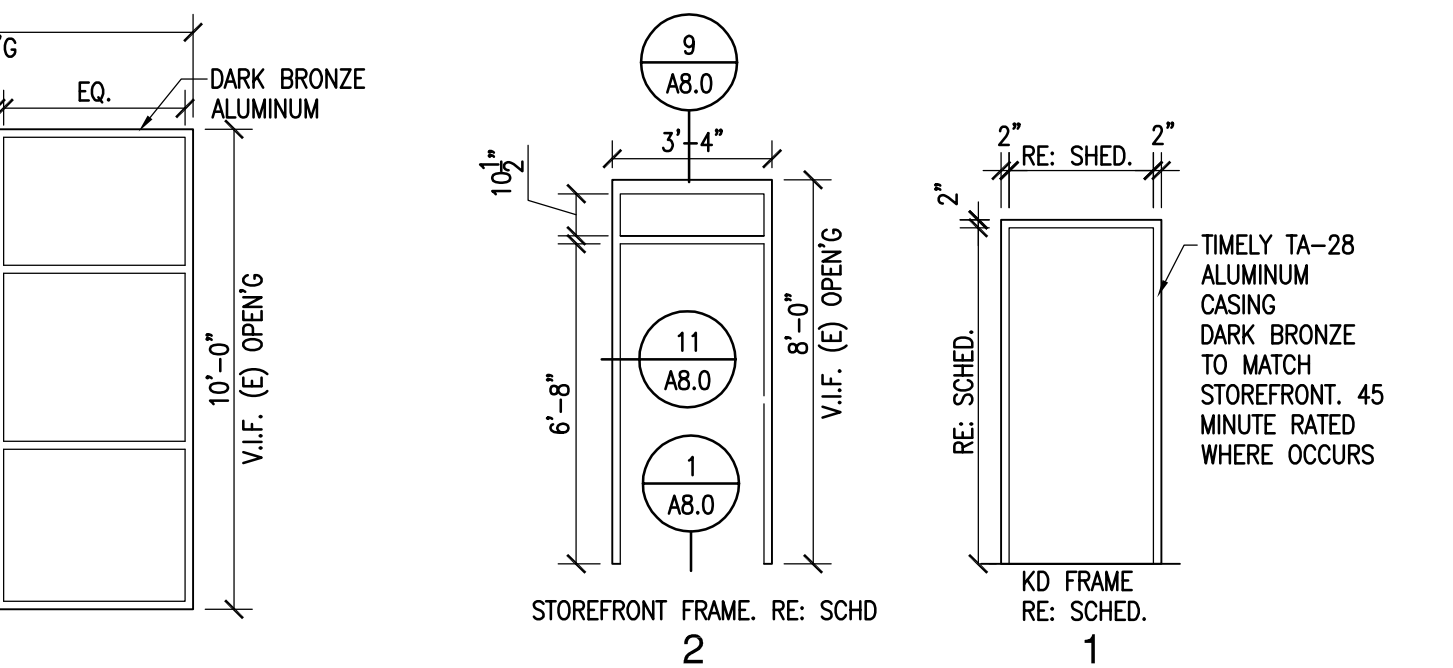
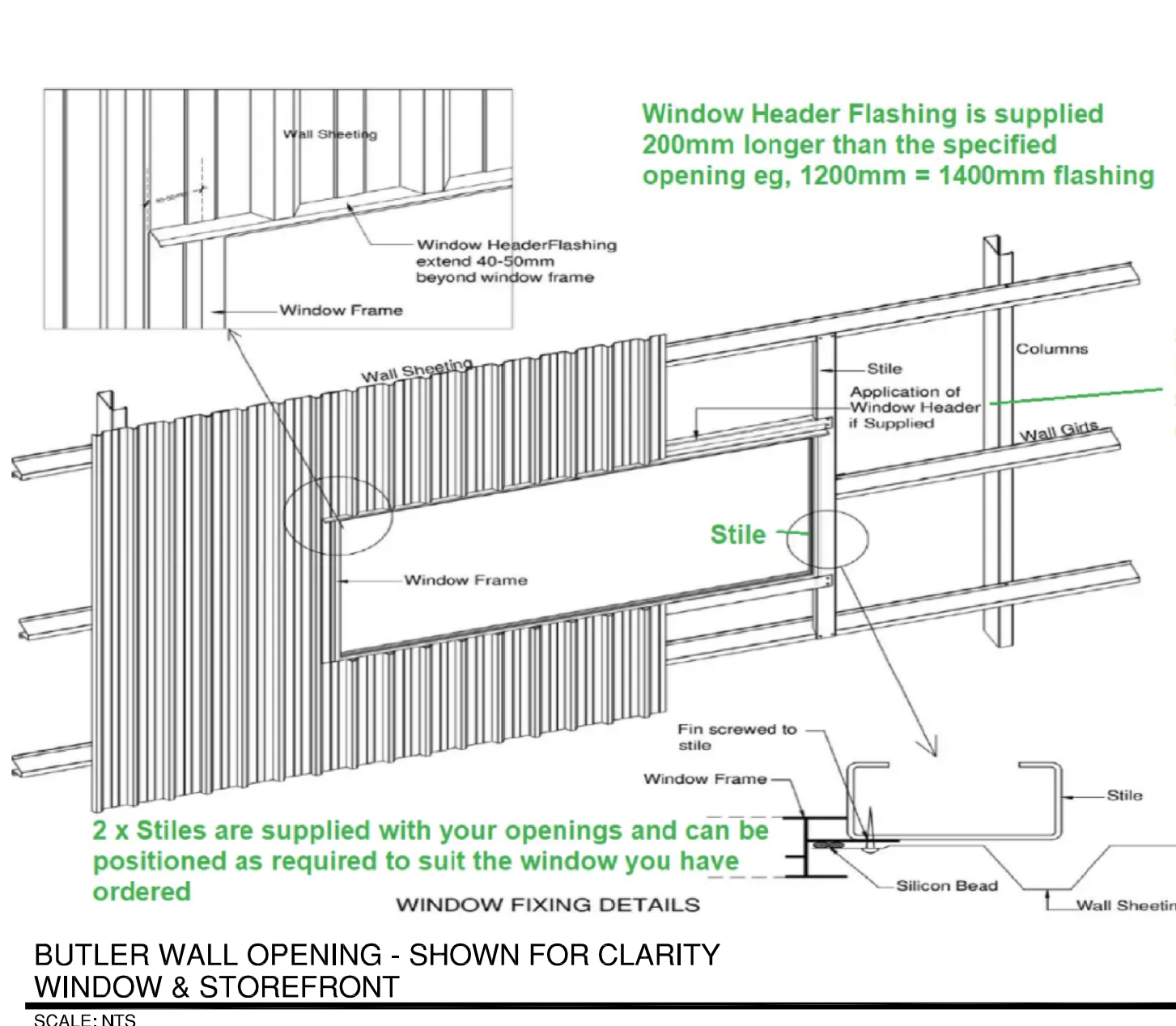
DOOR SCHEDULE										
MAIN LEVEL										
DOOR NO.	DOOR SIZE	DOOR TYPE	DOOR MAT.	FRAME MAT.	FRAME TYPE	HOW TYPE	DETAIL	REMARK		
01	3'-0"x7'-0"x1-3/4"	1	AL/GL	AL SF	AL	1.0	1/A8.0	EXTERIOR STOREFRONT		
02	3'-0"x7'-0"	3	GL	-	-	3.0	-/A8.0	TEMPERED ALL GLASS DOOR		
03	3'-0"x7'-0"x1-3/4"	5A	WD.-ST.	KD	STL	6.0	2,3/A8.0	3-PNL GLAZED WD DOOR		
04	3'-0"x7'-0"x1-3/4"	5B	WD.-ST.	KD	STL	7.0	2,3/A8.0	3-PNL GLAZED WD DOOR		
05	3'-0"x7'-0"x1-3/4"	4	WD.-ST.	-	-	12.0	4/A8.0	3-PNL GLAZED WD BARN DOOR		
06	PR 2'-6"x7'-0"x1-3/4"	7	WD.-ST.	-	-	13.0	4/A8.0	3-PNL GLAZED WD BARN DOOR		
07	3'-0"x7'-0"x1-3/4"	4	WD.-ST.	-	-	12.0	4/A8.0	3-PNL GLAZED WD BARN DOOR		
08	3'-0"x7'-0"x1-3/4"	5A	WD.-ST.	KD	STL	6.0	4/A8.0	3-PNL GLAZED WD DOOR		
09	3'-0"x7'-0"x1-3/4"	5B	WD.-ST.	KD	STL	8.0	4/A8.0	3-PNL GLAZED WD DOOR		
10	3'-0"x7'-0"x1-3/4"	4	WD.-ST.	-	-	12.0	4/A8.0	3-PNL GLAZED WD BARN DOOR		
11	5'-0"x7'-0"x1-3/4"	8	WD.-ST.	-	-	14.0	4/A8.0	3-PNL WD BARN DOOR		
12	3'-0"x7'-0"x1-3/4"	5A	WD.-ST.	KD	STL	12.0	4/A8.0	3-PNL GLAZED WD DOOR		
13	8'-0"x8'-0"x1-3/4"	9	WD.-ST.	-	MTL	15.0	13,14/A8.0	INSULATED SECTIONAL OH DOOR		
14	3'-0"x7'-0"x1-3/4"	2	SF	AL SF	SF	2.0	1/A8.0	EXTERIOR STOREFRONT		
15	3'-0"x7'-0"x1-3/4"	5B	WD.-ST.	KD	STL	4.0	-/A8.0	3-PNL GLAZED WD DOOR		
16	PR 2'-6"x7'-0"x1-3/4"	6	WD.-ST.	KD	STL	5.0	-/A8.0	3-PNL GLAZED WD DOOR 45MIN		

EXISTING MAIN LEVEL										
X01	EX	EX	EX	EX	EX	9.0	EX	NEW LEVER HARDWARE		
X02	EX	EX	EX	EX	EX	10.0	EX	NEW LEVER HARDWARE		
X03	EX	EX	EX	EX	EX	9.0	EX	NEW LEVER HARDWARE		
X04	EX	EX	EX	EX	EX	9.0	EX	NEW LEVER HARDWARE		
X05	EX	EX	EX	EX	EX	16.0	EX	NEW LEVER HARDWARE		
X06	EX	EX	EX	EX	EX	16.0	EX	NEW LEVER HARDWARE		

EXISTING MEZZANINE LEVEL										
XM1	EX	EX	EX	EX	EX	11.0	EX	NEW LEVER HARDWARE		
XM2	EX	EX	EX	EX	EX	11.0	EX	NEW LEVER HARDWARE		



- DOOR & WINDOW SCHEDULE NOTES**
- ALL PROJECT GLAZING TO BE TEMPERED
 - CONTRACTOR TO V.I.F. DIMS PRIOR TO SUBMITTAL OF SHOP DRAWINGS.
 - ALL DOOR DIMENSIONS TO REMAIN AS SHOWN.
 - IT IS THE CONTRACTOR'S RESPONSIBILITY TO VERIFY ALL WALL WIDTHS BEFORE ORDERING DOOR FRAMES. ALL DOOR FRAMES SHOULD WRAP FINISH MATERIALS UNLESS SHOWN OTHERWISE.
 - DO NOT SCALE DRAWINGS. DIMENSIONS GOVERN. LARGE SCALE DETAILS COVER OVER SMALL SCALE. A STOREFRONT WINDOW WALLS ARE DIMENSIONED FROM EDGE OF MULLION TO EDGE OF MULLION. B. WINDOW ASSEMBLY SIZES SHOWN ON DRAWINGS ARE NOMINAL, ACTUAL SIZES WILL BE SMALLER. CONTRACTOR TO VERIFY IN FIELD.
 - TEMPERED 1" INSULATED GLASS AT ALL DOORS.
 - WHERE NECESSARY PROVIDE STOREFRONT INFILL PANEL, COLOR TO MATCH STOREFRONT.
 - COORD. DOOR UNDERCUTS W/ MECH. DWGS.
 - RE: ARCHITECTURAL FLOOR PLANS FOR DOOR & WINDOW LOCATIONS
 - WOOD BLOCK'G IS SHOWN BUT MTL. STUDS MAY BE SUBSTITUTED, CONTRACTORS OPTION.
 - LIQUIDFLASH FULL WIDTH OF FRAME @ ALL WINDOW LOCATIONS.
 - EXIT DOOR LOCKS SHALL MEET THE REQUIREMENTS OF IBC/IFC SECTION 1010.1.9.3 OR BE A SINGLE ACTION TYPE EXIT HARDWARE.
 - WHERE WINDOW SHADES OCCUR SURFACE MOUNT TO WALL @ WINDOW HEAD.



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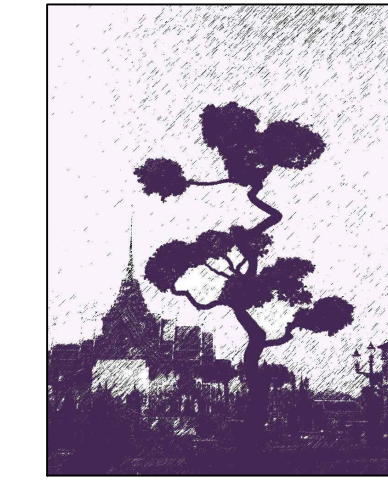
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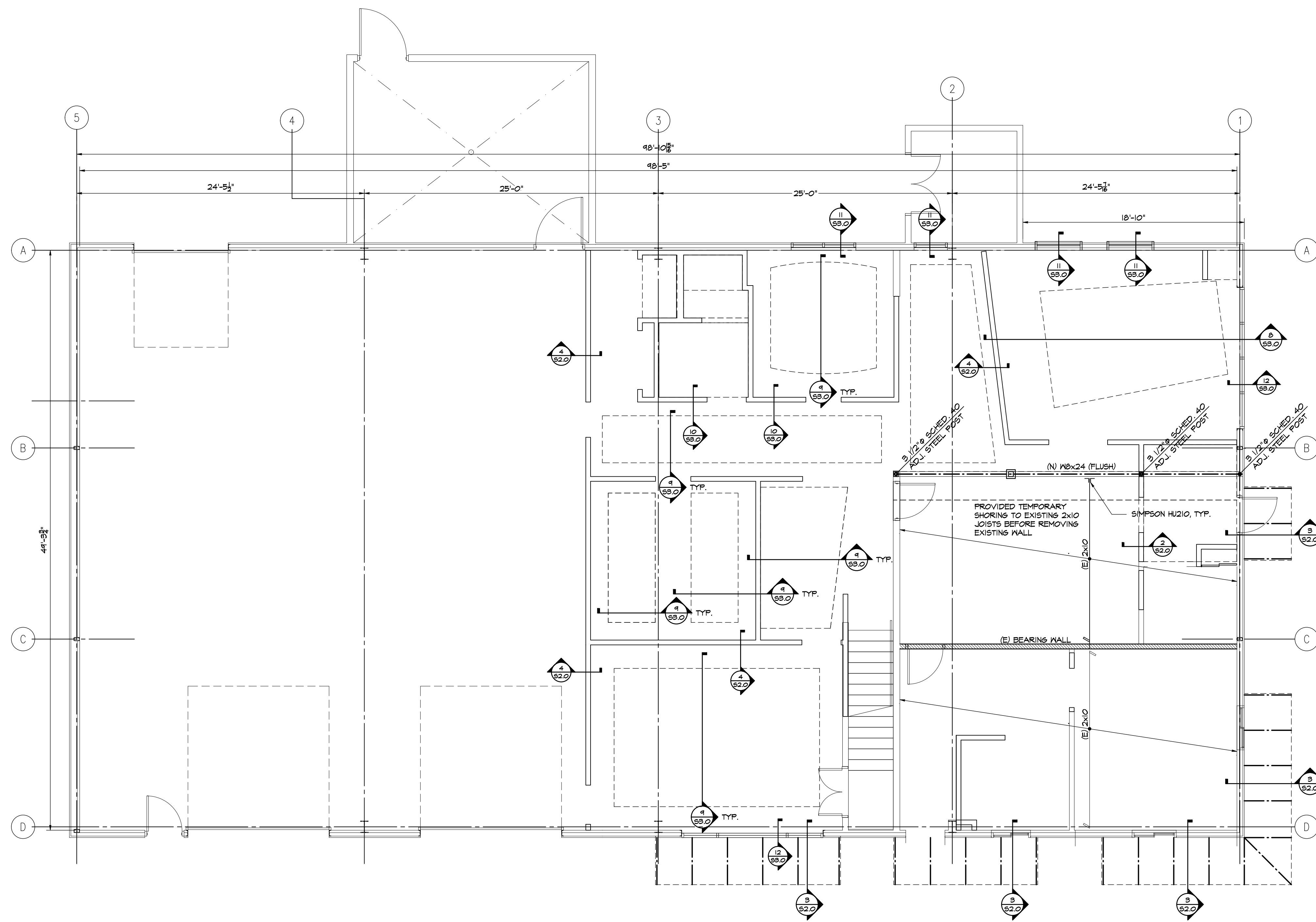
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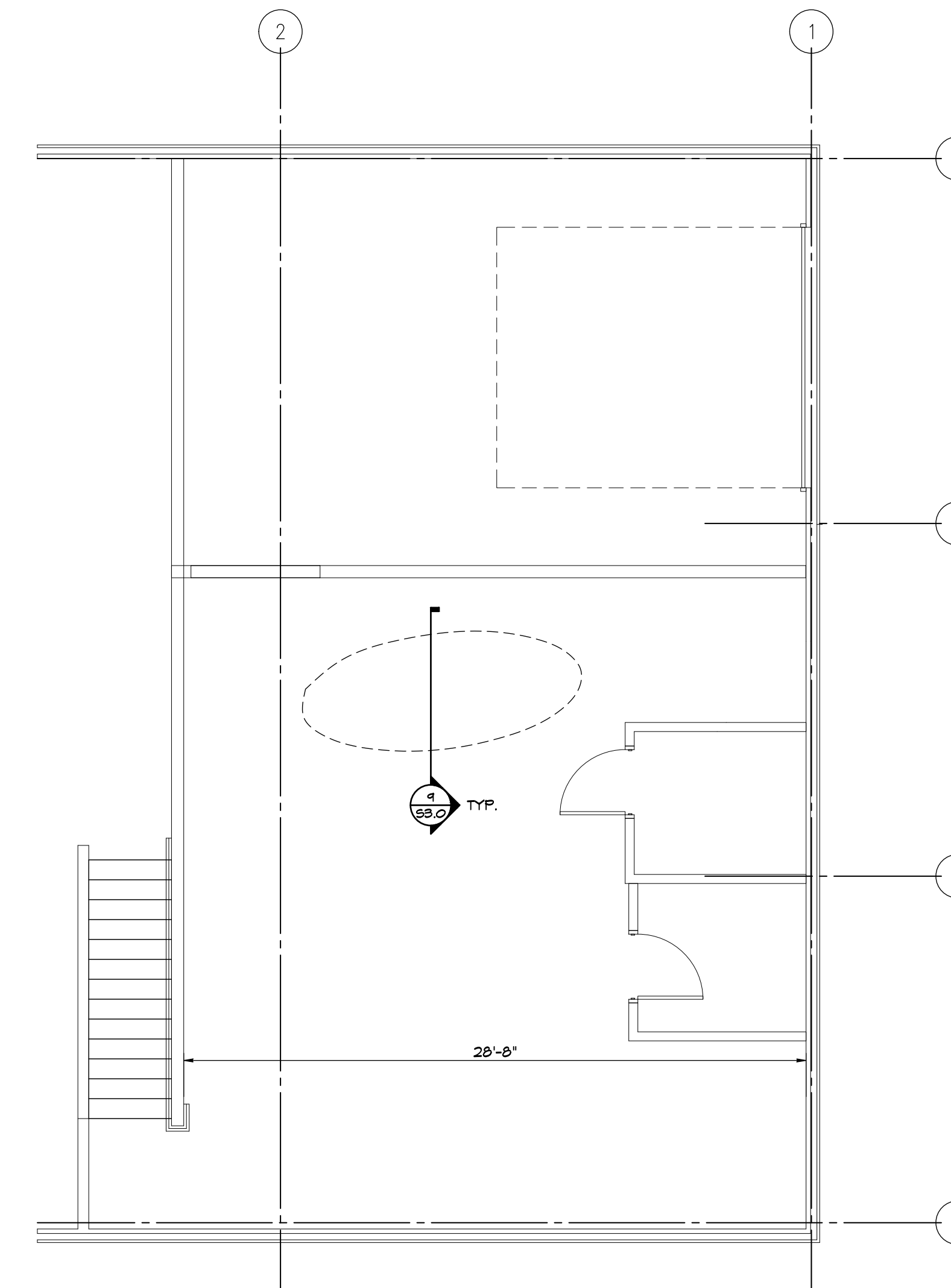
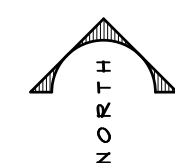
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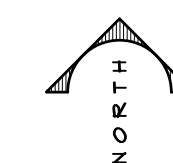
3/16" = 1'-0"



(N) MAIN FLOOR FRAMING PLAN
 scale: 3/16" = 1'-0"



(E) MEZZANINE PLAN
 scale: 3/16" = 1'-0"



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MAIN FLOOR
 FRAMING PLAN

SI.0

GENERAL STRUCTURAL

DESIGN LIVE LOADS:
 * ROOF SNOW LOAD 30 psf
 * ROOF DEAD LOAD 16.7 psf
 * WIND 115 MPH (EXPOSURE 'C')
 * SEISMIC CLASSIFICATION ZONE B

NOTES

GENERAL:
 * THESE DRAWINGS ARE BASED ON LIMITED EXISTING INFORMATION, CONTRACTOR SHALL NOTIFY ENGINEER OF CONDITIONS DIFFERENT FROM DRAWN AND DETAILED.
 * SECTIONS OR DETAILS SHOWN OR NOTED APPLY TO SIMILAR CONDITIONS ELSEWHERE NOT SPECIFICALLY SHOWN OR NOTED.
 * THESE PLANS HAVE BEEN ENGINEERED FOR CONSTRUCTION AT ONE SPECIFIC BUILDING SITE. BUILDER ASSUMES ALL RESPONSIBILITY FOR USE OF THESE PLANS AT ANY OTHER LOCATION.
 * GENERAL CONTRACTOR IS RESPONSIBLE FOR FIELD VERIFYING ALL EXISTING CONDITIONS AND REPORTING ANY DISCREPANCIES TO THE STRUCTURAL ENGINEER IMMEDIATELY.

STRUCTURAL STEEL:
 * ANGLES: ASTM A36 / A572 G50 (Fy=50 ksi).
 * PLATES AND BARS: ASTM A36 (Fy=50 ksi).
 * WIDE FLANGE BEAMS: ASTM A512 (Fy=50 ksi).
 * BOLTS: ASTM A325-N - STRUCTURAL MEMBERS.
 * ASTM A307 - ANCHOR AND MISCELLANEOUS BOLTS.
 * ALL STRUCTURAL STEEL SHALL BE FABRICATED AND ERECTED IN ACCORDANCE WITH THE STANDARDS SET FORTH IN THE LATEST EDITION OF THE AISC MANUAL OF STEEL CONSTRUCTION.
 * WELD MATERIAL: E70XX ELECTRODES.
 * WELDING MAY ONLY BE PERFORMED BY AWS CERTIFIED WELDERS.
 * PROVIDE SPECIAL INSPECTION FOR STRUCTURAL WELDING.

EXISTING FOUNDATIONS:
 * CAISSONS OR FOOTINGS SHALL BE EXISTING.

METAL STUDS:
 * CONFORM TO THE REQUIREMENTS OF THE CONSTRUCTION DOCUMENTS, AISI COLD FORMED STEEL SPECIFICATIONS AND 2003 IBC ON COLD FORMED FRAMING.
 * VERIFY ALL FINISHES, DIMENSIONS AND ELEVATIONS WITH ARCH. AND STRUCTURAL DRAWINGS.
 * IMMEDIATELY NOTIFY ENGINEER OF CONDITIONS ENTERED IN FIELD DIFFERENT FROM WHAT IS DETAILED.

* METAL STUDS AND TRACKS ARE 16 OR 18 GAUGE TYPE XJ (1/8" FLANGES) STUDS AS SPECIFIED BY THE METAL STUD MANUFACTURER'S ASSOCIATION (MSMA), UNLESS SPECIFICALLY NOTED OTHERWISE. STANDARD TRACK SHALL HAVE 1/4" LESS MATERIAL STRENGTH SHALL BE AS FOLLOWS:
 16 GAUGE MEMBERS (AND HEAVIER); Fy = 50 ksi, E = 29,000 ksi.
 18 GAUGE MEMBERS (AND LIGHTER); Fy = 33 ksi, E = 29,000 ksi.

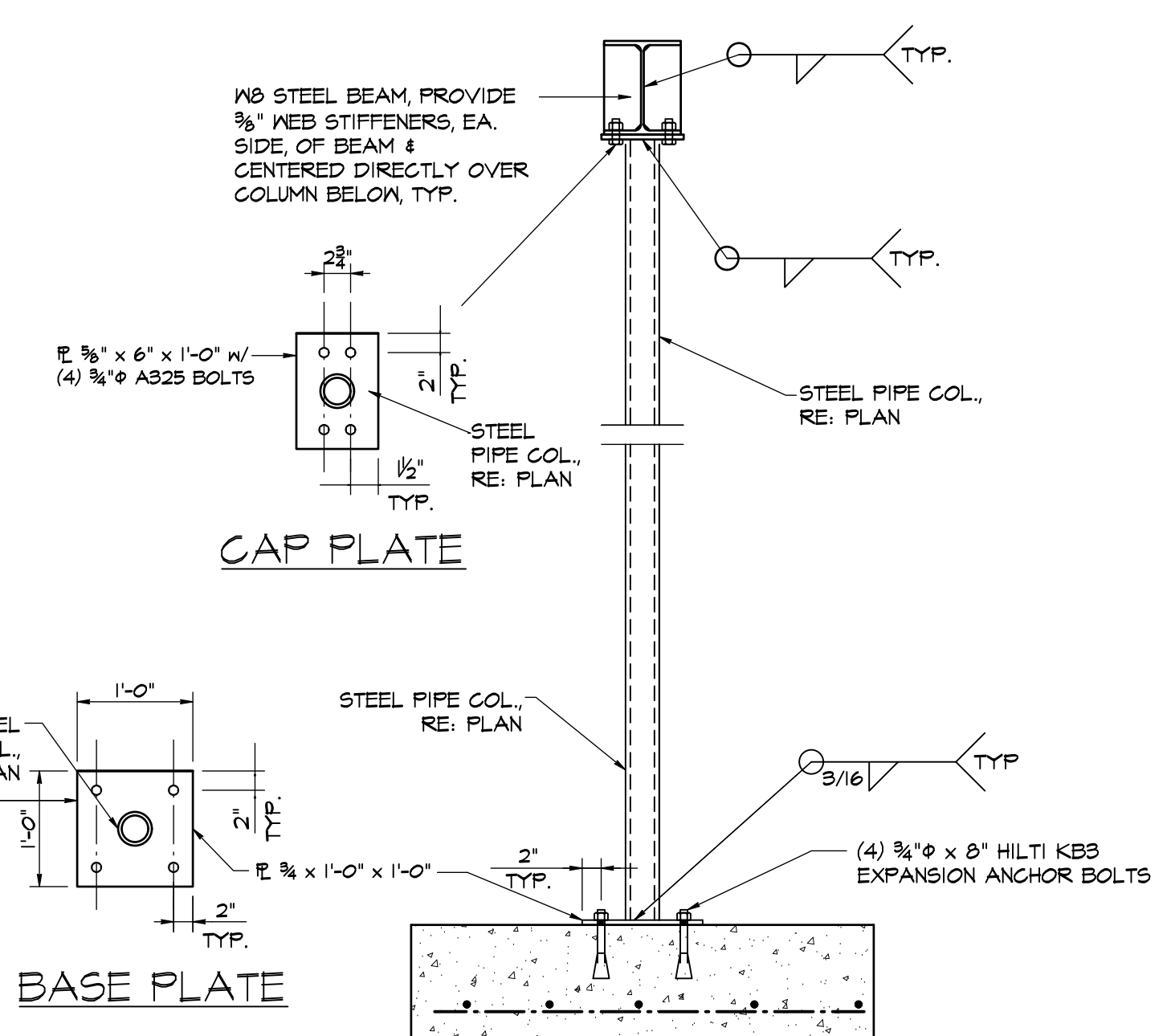
* FRAMING MEMBERS SHALL HAVE THE MINIMUM PHYSICAL PROPERTIES AS GIVEN BY THE METAL STUD MANUFACTURER'S ASSOCIATION.
 * FASTEN STUD TRACK TO CONCRETE SURFACE BELOW W/ POWDER ACTUATED FASTENERS (PAFs) @ 12" o.c. STAGGERED, TYPICAL UNLESS NOTED OTHERWISE.
 * DO NOT LOCATE PUNCH OUTS OF STUDS ABOVE OR BELOW THE MAIN CONNECTIONS TO THE STRUCTURAL EDGE ANGLES WITHIN A DISTANCE EQUAL TO THE DEPTH OF THE STUD ABOVE OR BELOW THE CONNECTION. PROVIDE A ROW OF CRC CHANNEL BRIDGING AT NEAREST PUNCHOUT TO MAIN CONNECTIONS AT THE STRUCTURAL EDGE ANGLES.
 * DO NOT SPLICE STUDS UNLESS SPECIFICALLY DETAILED, ABUTTING LENGTHS OF TRACK SHALL BE SECURELY ANCHORED TO A COMMON STRUCTURAL ELEMENT, BUTT-WELDED OR SPLICED.

* LOCATE 16 GA. 1 1/2" ROLLED CHANNEL BRIDGING AT MID-SPAN OF STUDS LESS THAN OR EQUAL TO 10'-0" IN LENGTH AND AT 4'-0" o.c. MAXIMUM AT OTHER LENGTHS OF STUDS OR JOISTS. WELD BRIDGING TO EA. STUD W/ 1" OF 1/8" FILLET WELD, MIN.
 * ADDITIONAL SPECIFICATIONS SHALL BE PER THE METAL STUD MANUFACTURER'S ASSOCIATION'S RECOMMENDATIONS UNLESS SPECIFICALLY NOTED ON THESE DOCUMENTS.
 * FASTENERS:

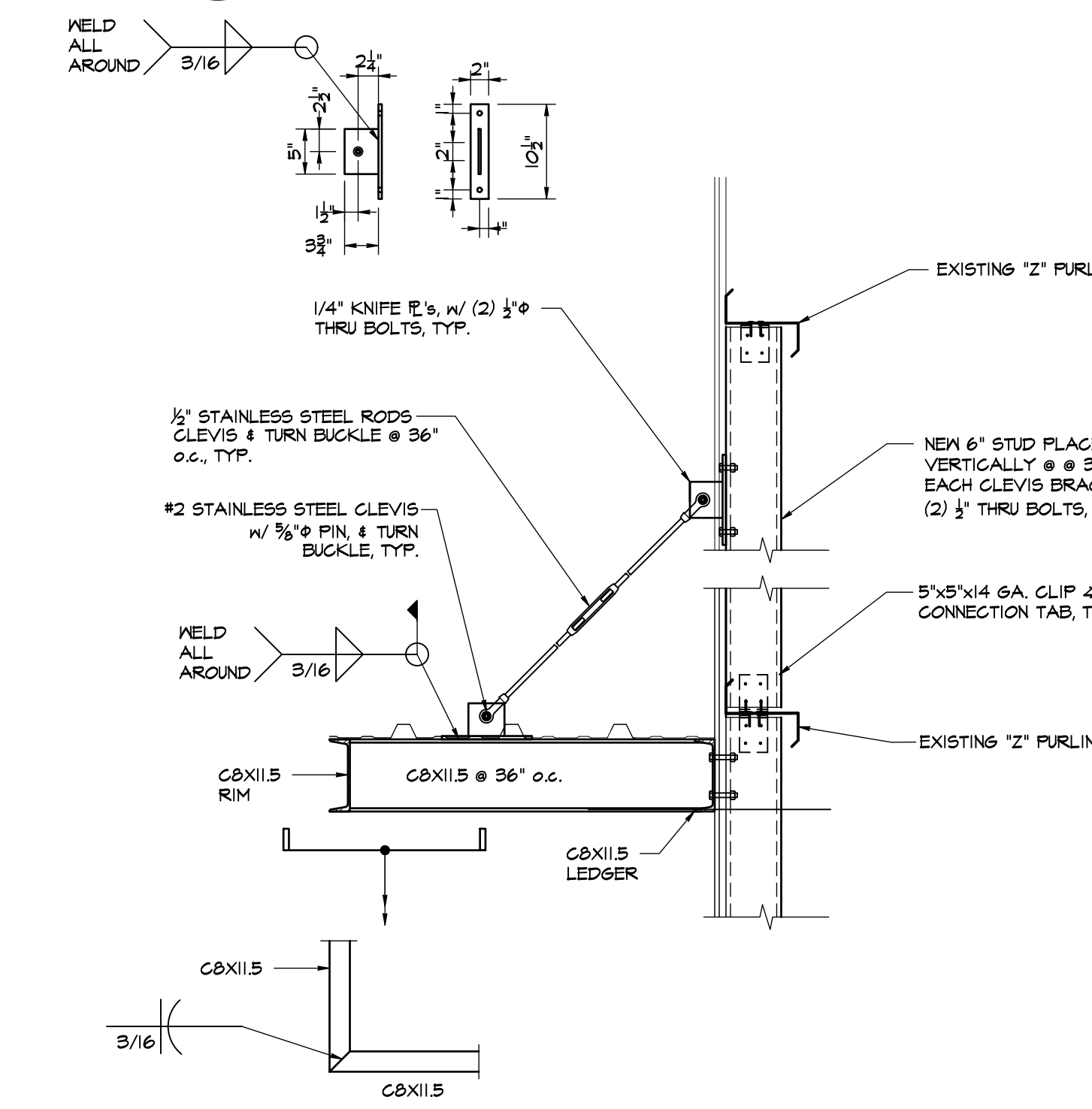
SCREENS:
 #10 "TRAXX" SELF DRILLING FASTENERS AS MANUFACTURED BY THE ITN BUILDTEX COMPANY OR APPROVED EQUAL. MATCH REQUIRED DRILL POINT TYPE WITH MATERIAL THICKNESS. SPACINGS AND EDGE DISTANCE SHALL NOT BE MORE THAN 0.570" - #10.
WELDS:
 LIGHT GAUGE FRAMING WELDING SHALL BE COMPLETED IN CONFORMANCE WITH AWS D1.8-B1 "STRUCTURAL WELDING CODE - SHEET METAL". ALL WELDERS SHALL BE QUALIFIED IN ACCORDANCE WITH AWS D11. WELDING SHALL BE DONE WITH AWS A5.1 OR A5.5 E60XX ELECTRODES. TOUCH UP ALL WELDS WITH RUST-RESISTING ZINC RICH PAINT. USE THE MAXIMUM WELD SIZE PERMISSIBLE BASED ON THE THICKNESS OF THE MEMBERS AND THEIR CONFIGURATION.
POWDER ACTUATED FASTENERS:
 ANCHORS INTO CONCRETE, RAVL 0.143" SMOOTH SHANK, 0.300" HEAD DRIVE PIN, 1/4" EMBEDMENT, OR APPROVED EQUAL. SPACINGS & EDGE DISTANCE SHALL NOT BE MORE THAN 3". ANCHORS INTO STEEL RAVL 0.143" KNURLED SHANK, 0.300" HEAD DRIVE PIN, 1/4" EMBEDMENT, OR APPROVED EQUAL. SPACINGS SHALL NOT EXCEED 1/2" AND EDGE DISTANCE SHALL NOT EXCEED 1/2".
EXPANSION ANCHORS:
 PROVIDE HILTI KIKIBOLT 3 OR APPROVED EQUAL CORROSION RESISTANT EXPANSION ANCHORS. UNLESS SPECIFICALLY NOTED OTHERWISE FOLLOW MANUFACTURERS MINIMUM REQUIRED EDGE DISTANCES AND SPACINGS.

MASONRY:
 * MASONRY SHALL BE EXISTING. SEE SHELL STRUCTURAL DRAWINGS, TYP.

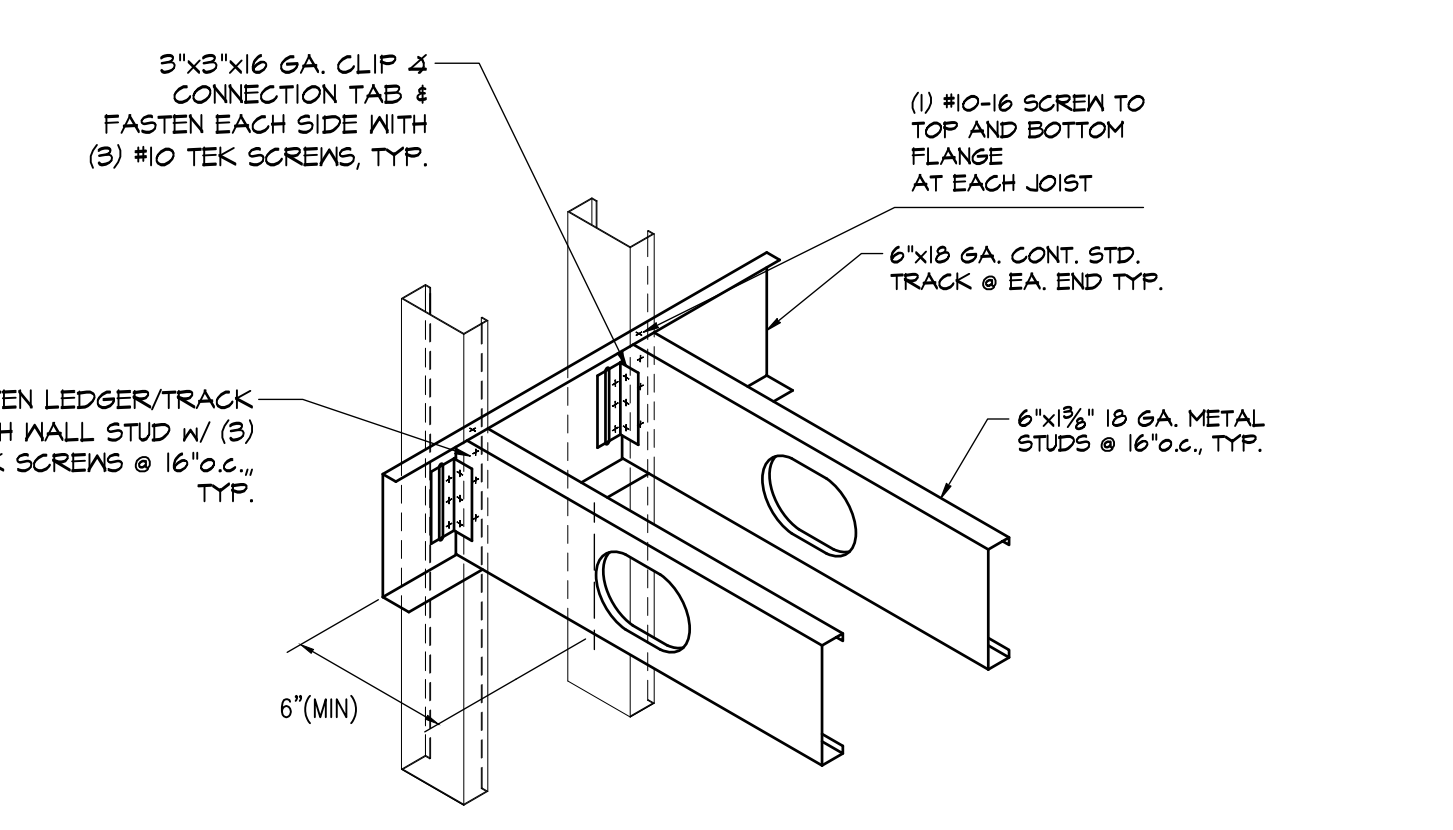
SPECIAL INSPECTIONS:
 * AS REQUIRED BY IBC 1704 THE FOLLOWING ITEMS SHALL BE SPECIAL INSPECTED BY THE ENGINEER OF RECORD.
 * STRUCTURAL STEEL
 * MASONRY REINFORCING
 * HIGH-STRENGTH BOLTING
 * WELDING
 * PLEASE CALL ENGINEER 24 HOURS PRIOR TO SCHEDULE A FIELD VERIFICATION OF THE SPECIAL INSPECTIONS LISTED ABOVE.



1 TYPICAL INTERIOR STEEL COLUMN
 scale: 3/4" = 1'-0"



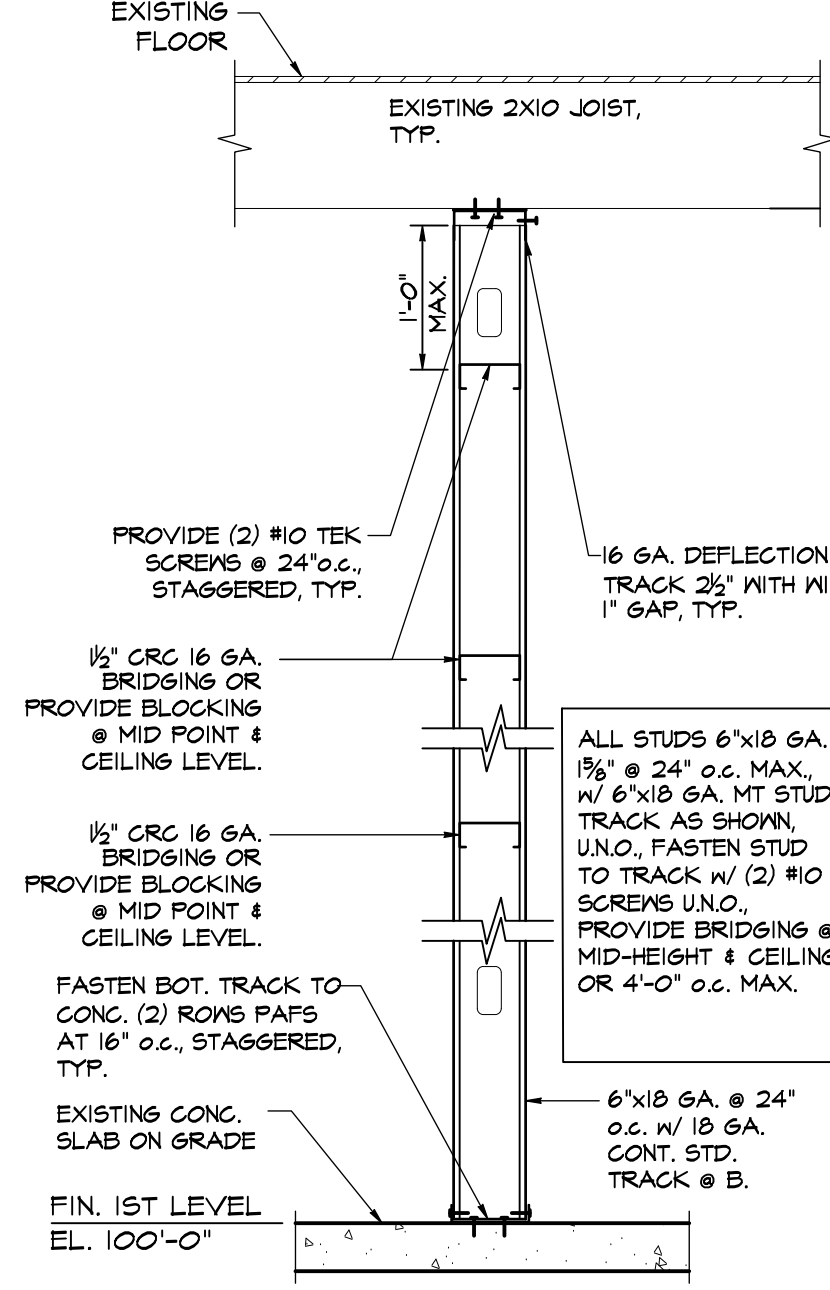
3 AWNING TURN BUCKLE & CLEVIS
 scale: 3/4" = 1'-0"



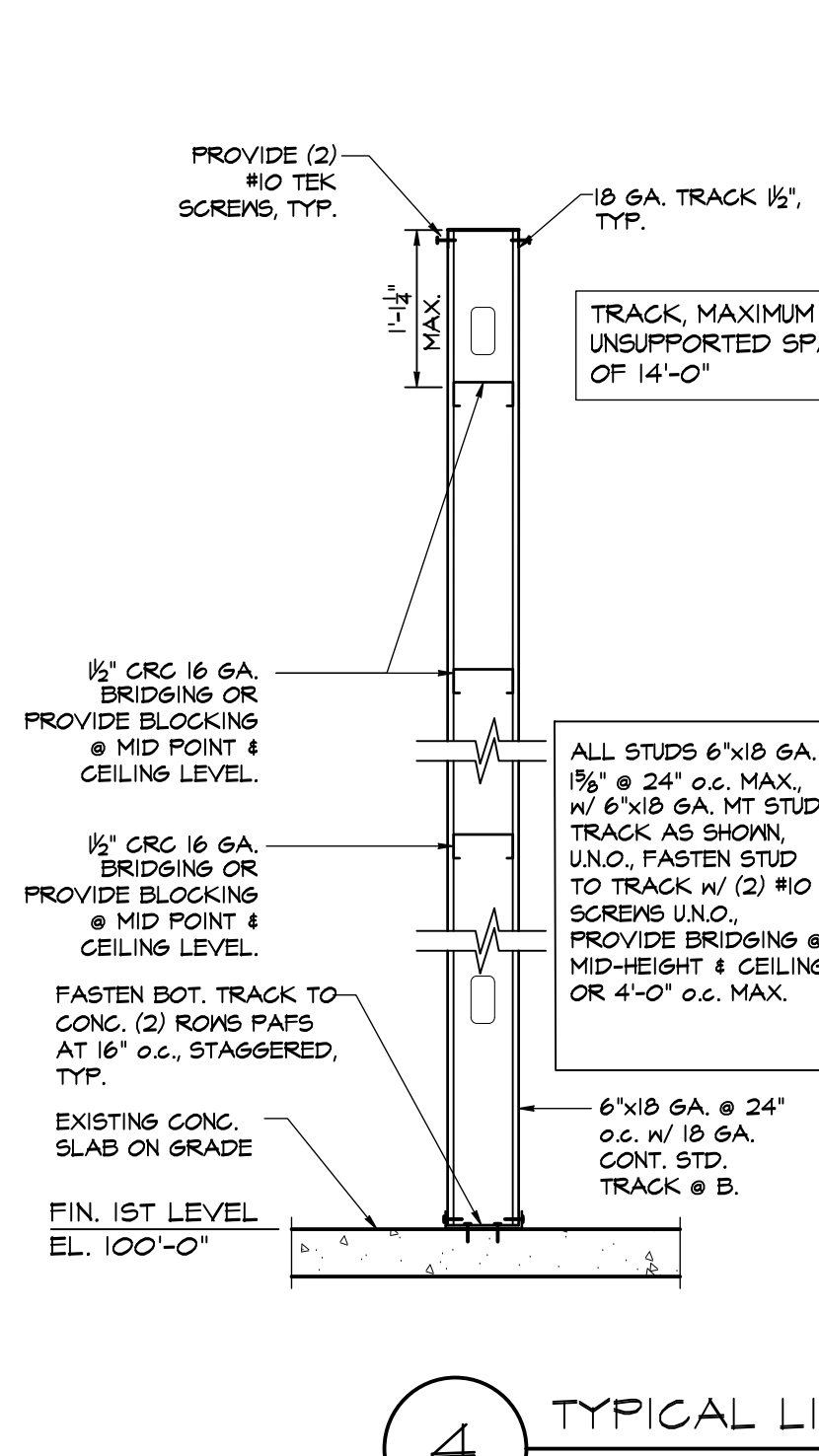
5 CEILING LEDGER
 scale: 3/4" = 1'-0"



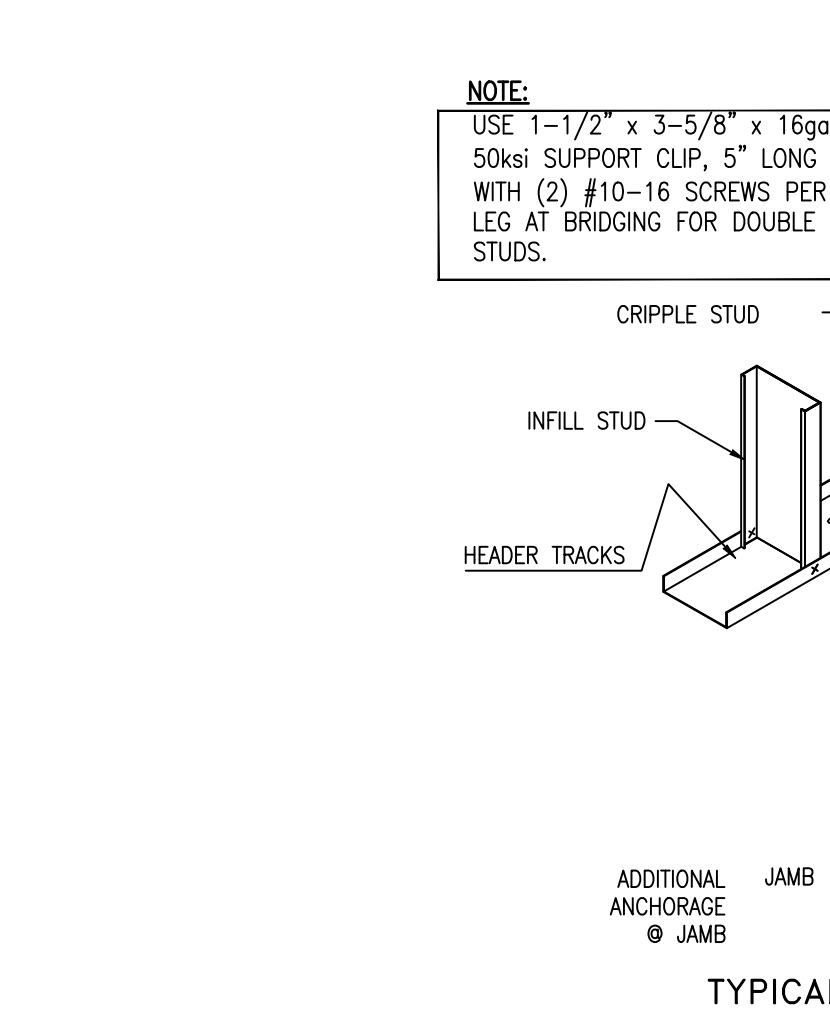
5 JOIST CONNECTION TO LIGHT GAUGE WALL STUDS
 scale: 3/4" = 1'-0"



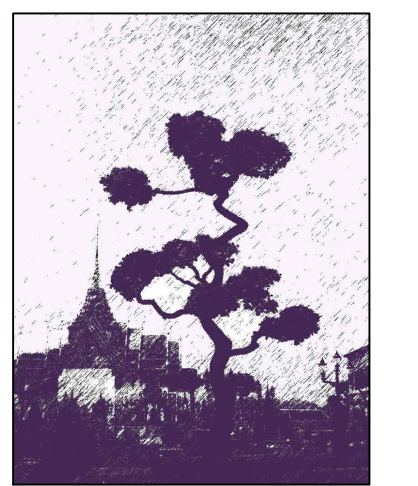
2 TYPICAL LIGHT GAUGE STEEL PARTITION WALL
 scale: 3/4" = 1'-0"



4 TYPICAL LIGHT GAUGE STEEL PARTITION WALL
 scale: 3/4" = 1'-0"



6 TYPICAL LIGHT GAUGE STEEL DETAILS
 scale: 3/4" = 1'-0"



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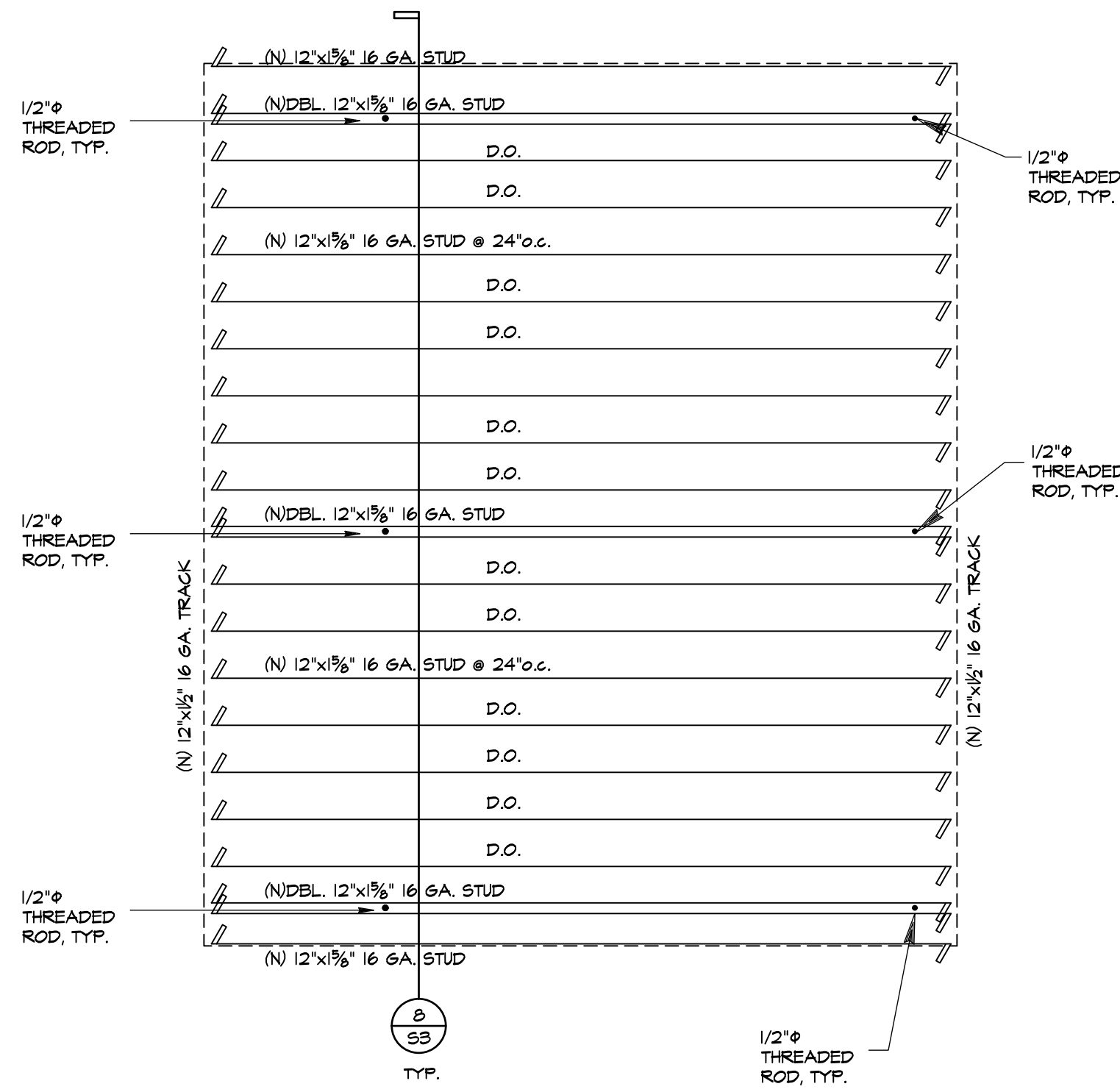
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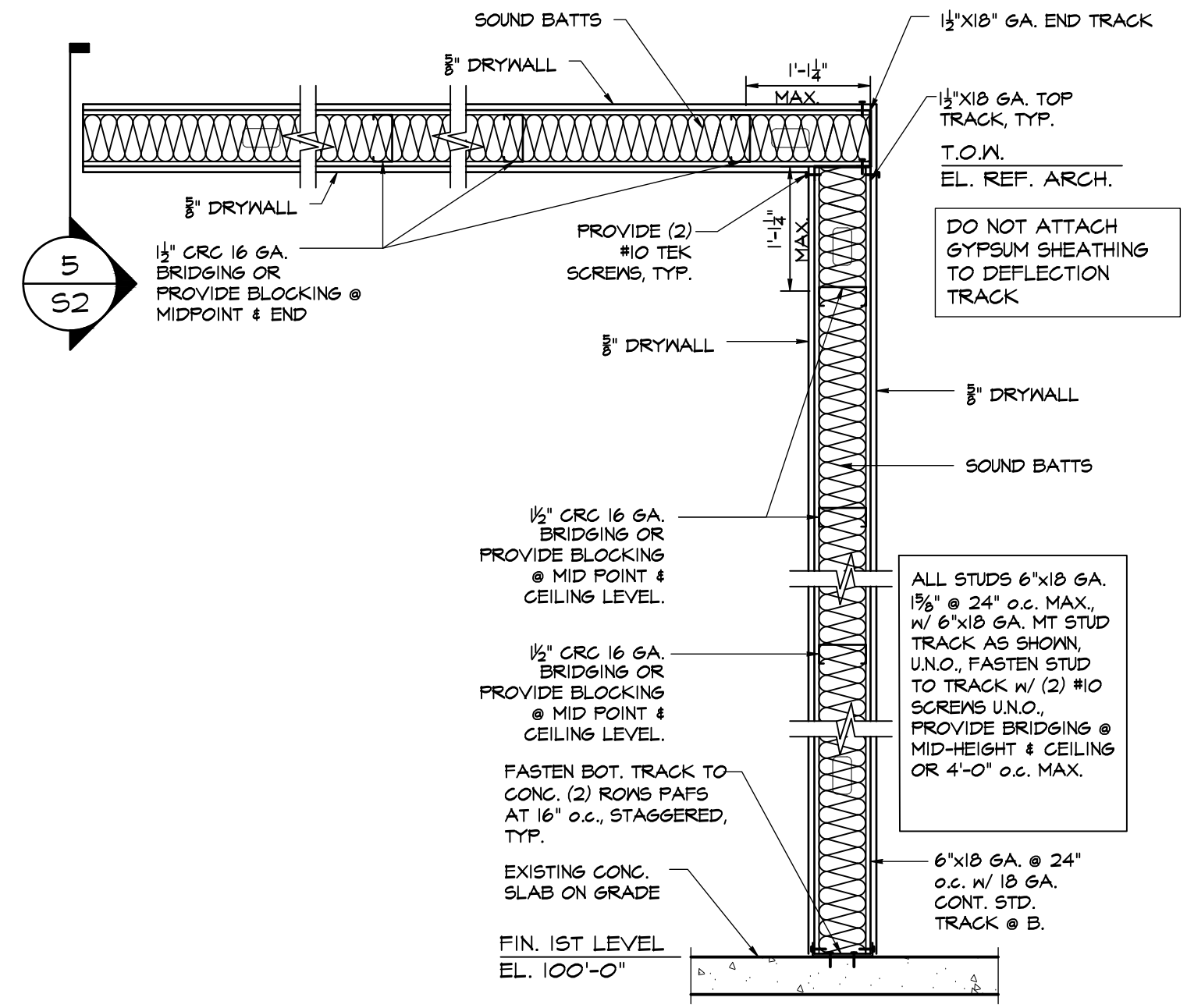
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STRUCTURAL NOTES AND DETAILS

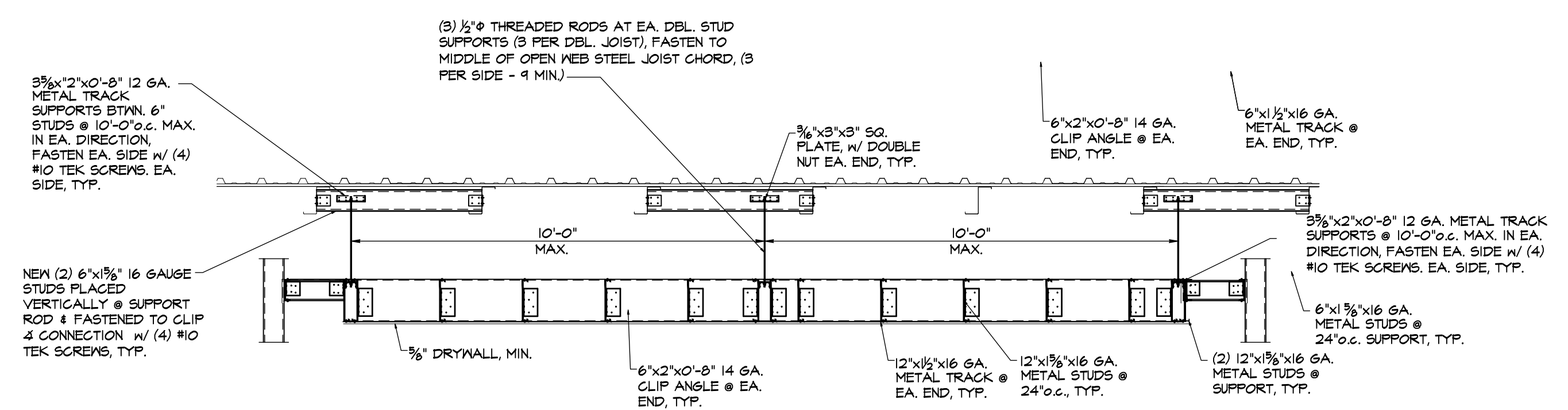
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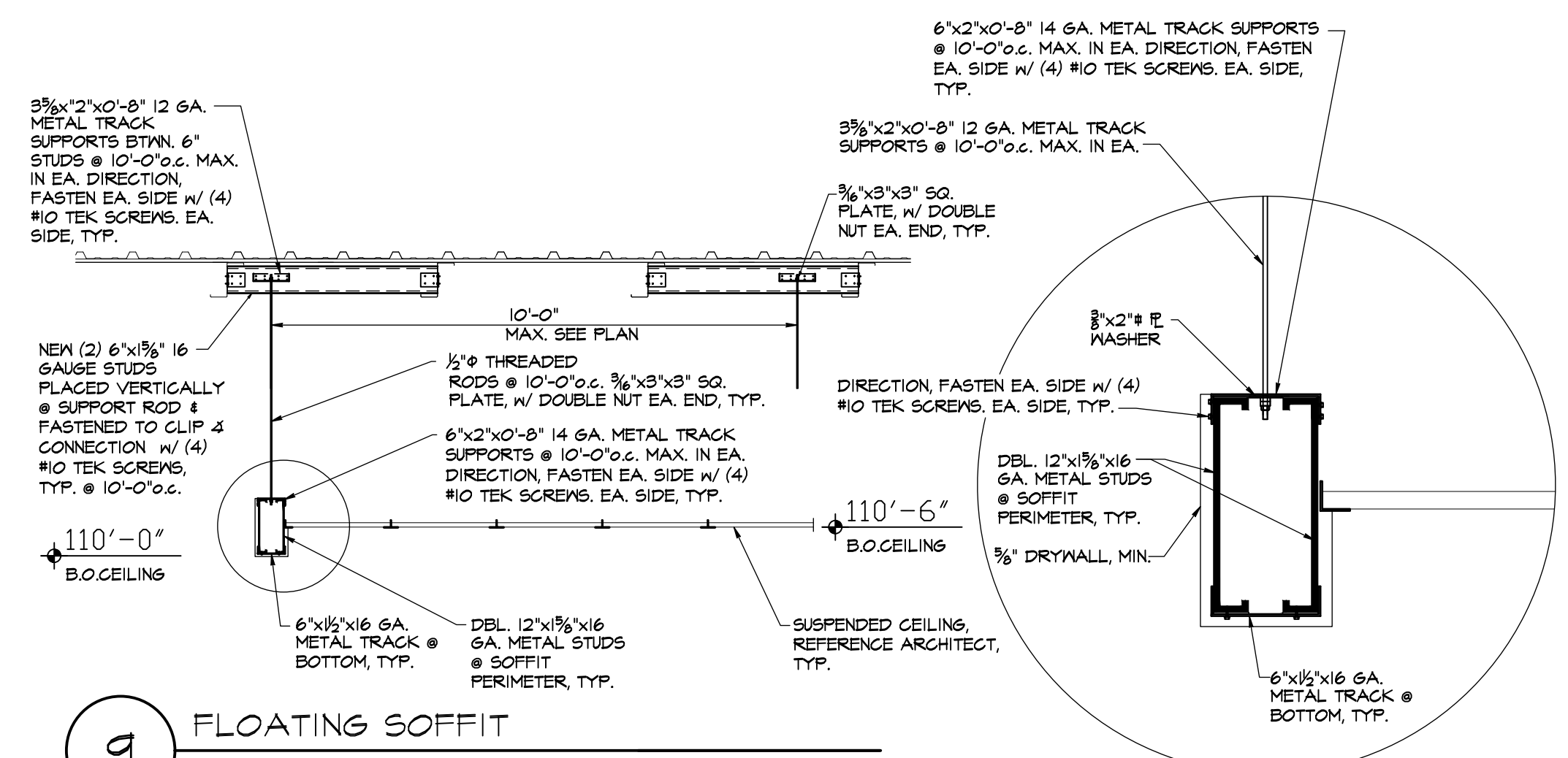
7 FLOATING CEILING PLAN
scale: 1/4" = 1'-0"



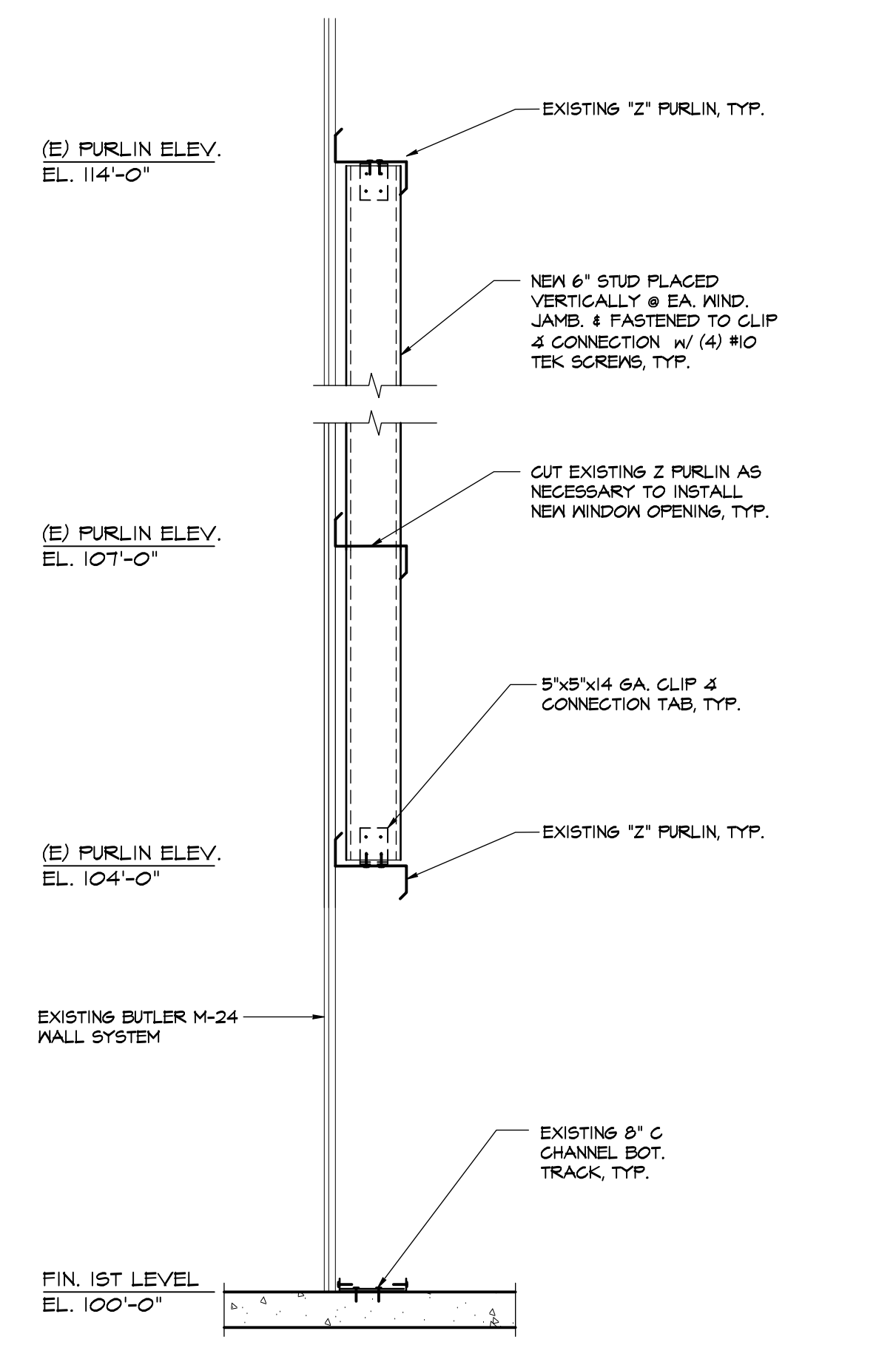
10 LIGHT GA. STEEL PRIVACY PARTITION WALL & CEILING
scale: 3/8" = 1'-0"



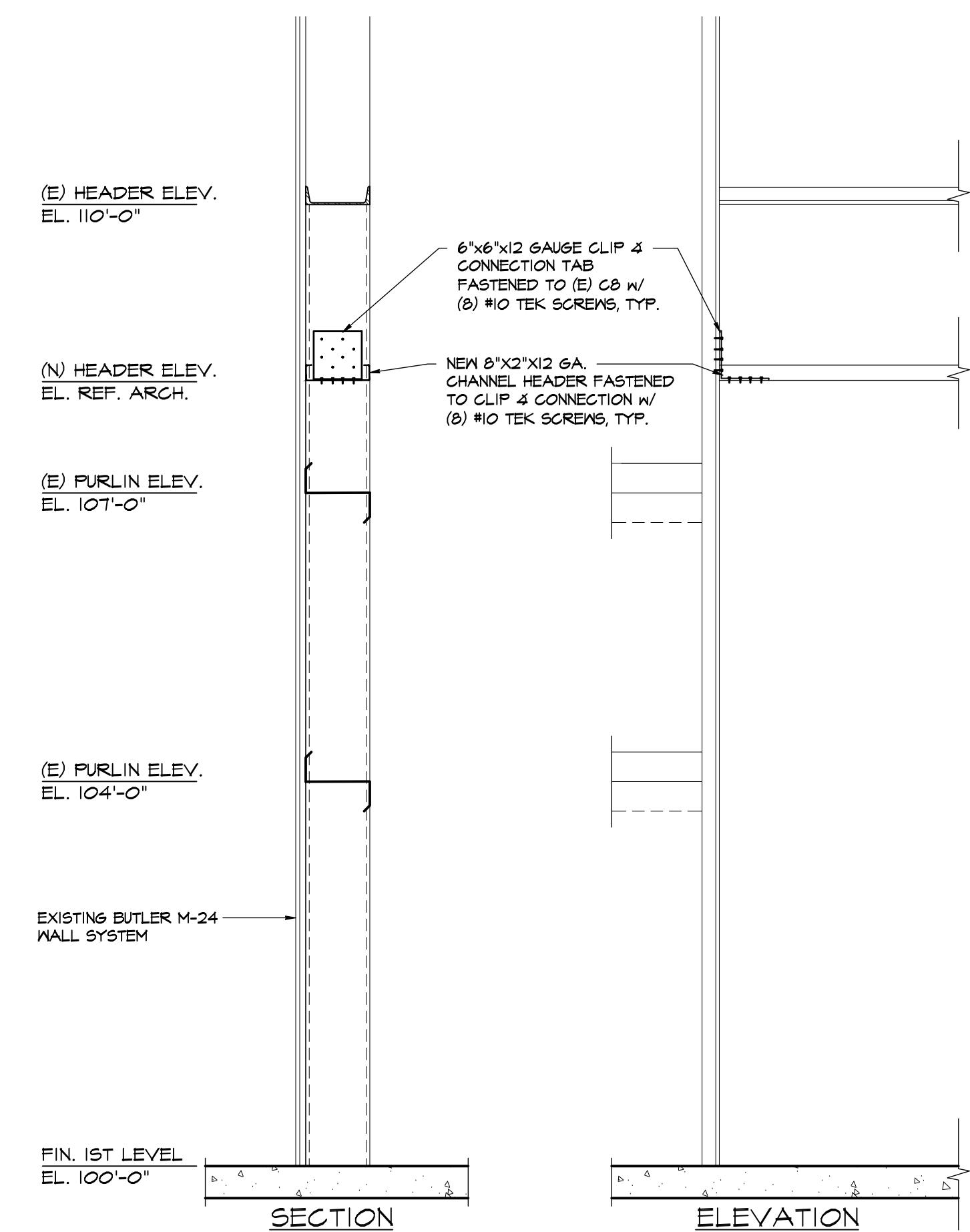
8 FLOATING CEILING SECTION
scale: 3/8" = 1'-0"



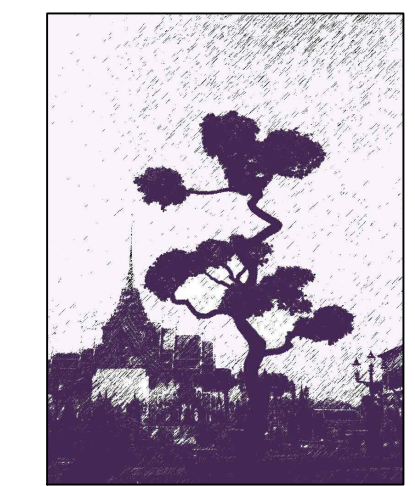
9 FLOATING SOFFIT
scale: 3/8" = 1'-0"
* AT SPLICE LOCATIONS STAGGER STUD ENDS 4" MIN. & FASTEN W/ 10 TEK SCREWS @ 6" O.C.
** AT SPLICE LOCATIONS PROVIDE 8' LONG TRACK AT TOP & FASTEN W/ 10 TEK SCREWS @ 12" O.C.



11 TYP. LIGHT GAUGE STL. WINDOW OPENING
scale: 3/8" = 1'-0"



12 TYP. LIGHT GAUGE STL. STORE FRONT OPENING
scale: 3/8" = 1'-0"



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STRUCTURAL DETAILS

S3.0

MECHANICAL SPECIFICATIONS

THIS SHEET SPECIFICATION SHALL GOVERN IN LIEU OF SEPARATE BOUND SPECIFICATIONS. UPON ISSUANCE SHOULD CONFLICTS ARISE BETWEEN THE SHEET AND THE BOUND SPECIFICATION THEN THE MORE STRINGENT OF THE TWO SHALL PREVAIL.

- 1. BASIC REQUIREMENTS
A. MECHANICAL PLANS MAY INCLUDE SCOPE INFORMATION FOR OTHER TRADES...
B. MECHANICAL DESIGN SHALL CONFORM TO ADOPTED CODES AND ALL LOCAL AMENDMENTS...
C. DO NOT SCALE DRAWINGS...
D. ANY SCALE, DIMENSION OR QUANTITIES SHOWN ON THE DRAWINGS ARE FOR ENGINEERING CALCULATION PURPOSES ONLY...
E. COORDINATE WITH OTHER TRADES FOR A COORDINATED INSTALLATION WITHIN THE AVAILABLE SPACE...
F. ALL WORK SHALL BE PERFORMED BY PROPERLY LICENSED CONTRACTORS OR UNDER THEIR DIRECT SUPERVISION...
G. CONFIRM ACTUAL VOLTAGES, PHASE AND CHARACTERISTICS OF EQUIPMENT AND APPARATUS FURNISHED BY CONTRACTOR...
H. INSTALL ALL EQUIPMENT PER MANUFACTURER'S RECOMMENDATIONS...
I. CONTRACTOR TO ENGAGE A FACTORY-AUTHORIZED SERVICE REPRESENTATIVE TO PERFORM STARTUP SERVICES...
J. SUBMIT MANUFACTURER'S LITERATURE (SHOP DRAWINGS) FOR MATERIALS AND EQUIPMENT...
K. IT IS THE CONTRACTOR'S RESPONSIBILITY TO PROVIDE ALL NEW EQUIPMENT AND DEVICES IN A LIKE NEW STATE AT TIME OF PROJECT CLOSEOUT...
2. BASIC MATERIALS
A. PROVIDE MECHANICAL SYSTEM CONTROLS, CONTROLLERS, CONTROL TRANSFORMERS, DISCONNECTS, STARTERS, CONTROL WIRING...
B. PROVIDE SUPPLEMENTAL STEEL AND SUPPORTS AS REQUIRED FOR INSTALLATION OF MECHANICAL MATERIALS, EQUIPMENT, AND APPARATUS...
C. PROVIDE VIBRATION ISOLATION ON ALL MECHANICAL EQUIPMENT...
D. INSTALL FLEXIBLE DUCT CONNECTIONS ON ALL AIR HANDLING AND DUCT CONNECTIONS...
E. ALL WORK IN FINISHED AREAS SHALL BE CONCEALED UNLESS SPECIFICALLY NOTED AS EXPOSED ON THE PLANS...
F. UTILIZE AN INDEPENDENT BALANCE WITH NEBB AND/OR AABC CERTIFICATION...
G. FIRE STOP ALL PIPING, DUCTING, AND WIRING MATERIALS PASSING THROUGH RATED STRUCTURES OR ASSEMBLIES USING U.L. LISTED PRODUCTS...
H. PROVIDE DUCT SMOKE DETECTORS FOR AUTOMATIC EQUIPMENT SHUTOFF IN AIR-MOVING SYSTEMS THAT RETURN IN EXCESS OF 2000 CFM TO ENCLOSED SPACES WITHIN BUILDINGS...
I. THE CONTRACTOR SHALL LOCATE AND FURNISH FOR INSTALLATION BY OTHERS, ALL ACCESS PANELS AS REQUIRED FOR ACCESS TO VALVES, DAMPERS, MOTORS, ETC...
J. PROVIDE SEISMIC AND/OR WIND LOADING SECUREMENT DETAILS AS REQUIRED BY THE LOCAL JURISDICTION...
K. PROVIDE PRE-ENGINEERED DUCT STAND SYSTEMS WITH A PROFESSIONAL ENGINEER STAMP & SIGNATURE...
L. FIELD LABEL ALL MECHANICAL EQUIPMENT AND PIPING AS INDICATED ON THE PLANS PER MECHANICAL AND LOCAL CODE REQUIREMENTS...
M. PROVIDE 2" DEEP AUXILIARY DRAIN PAN WITH SEPARATE DRAIN LINE UNDER HEATING AND COOLING COILS...
N. PROVIDE MANUFACTURERS RECOMMENDED MODIFICATION (SUCH AS HEAT TRACES AND ROUTING CHANGES) TO CONDENSING GAS FIRED EQUIPMENT LOCATED IN POTENTIAL FREEZING SPACES...
O. ALL PROVIDED MATERIALS LOCATED IN A RETURN AIR PLENUM SHALL HAVE A FLAME SPREAD OF 25 OR LESS AND A SMOKE DEVELOPED RATING OF 50 OR LESS AS DETERMINED BY AN INDEPENDENT TESTING LAB...
3. PIPING
A. PIPING MATERIALS, FITTINGS, VALVES, AND SPECIALTIES SHALL BE PROVIDED PER THE SYSTEM, MAXIMUM PRESSURE AT LOWEST POINT IN PIPING SYSTEM, AND SIZE UNLESS NOTED OTHERWISE...
B. CONDENSATE DRAIN PIPING MATERIALS SHALL BE:
a. TYPE M COPPER WITH SOLDERED JOINTS OR
b. CPVC PER MANUFACTURER'S REQUIREMENTS...
C. SYSTEMS INSTALLED WITH DIS-SIMILAR MATERIALS MUST BE JOINED WITH DIELECTRIC FITTINGS PER MANUFACTURERS' RECOMMENDATIONS TO PREVENT GALVANIC CORROSION...
D. SLEEVES MUST BE PROVIDED FOR PIPING SYSTEMS ROUTED THROUGH MASONRY OR CONCRETE ASSEMBLIES...
E. ANY PIPING SYSTEM OR SUPPORT/HANGER LOCATED IN A RETURN AIR PLENUM SHALL BE NONCOMBUSTIBLE OR SHALL HAVE A FLAME SPREAD INDEX OF NO MORE THAN 25 AND A SMOKE-DEVELOPED INDEX OF NOT MORE THAN 50 WHEN TESTED IN ACCORDANCE WITH ASTM E 84...
4. DUCTWORK
A. DUCTWORK SHALL BE GALVANIZED SHEET METAL INSTALLED IN ACCORDANCE WITH SMACNA STANDARDS...
B. ALL DUCTWORK SHALL BE SEALED IN ACCORDANCE WITH SMACNA STANDARDS...
C. ALL EXPOSED ROUND DUCTWORK SHALL BE SPRAL DUCT...
D. DUCT SIZES GIVEN ARE NET INSIDE FREE AREA...
E. EQUIPMENT FLEXIBLE DUCTWORK CONNECTION NOT TO EXCEED 10 INCHES IN LENGTH WITH A MAX. 25 FLAME/50 SMOKE INDEX...
F. FLEXIBLE DUCTWORK TO AIR DEVICES SHALL HAVE A MAXIMUM STRETCHED LENGTH OF 6 FEET...
G. PRESSURIZED EXHAUST DUCTWORK LOCATED RETURN AIR PLENUM SHALL BE SEALED WITH SMACNA SEAL CLASS "A" DUCT SEALANT...
H. ALL FLUE GAS DUCTWORK TO MATCH THE EQUIPMENT CATEGORY SERVED WITH MATERIALS APPROVED BY THE MANUFACTURER UNLESS OTHERWISE NOTED ON PLANS...
I. ALL EXHAUST TERMINALS MUST BE 3'-0" AWAY FROM IN ELEVATION FROM OPERABLE PORTION OF WINDOW AND DOORS, MC TO OFFSET AS REQUIRED...
J. ALL DIRECT VENT TERMINALS MUST BE 4'-0" AWAY IN ELEVATION HORIZONTALLY OR BELOW AND AT LEAST 1'-0" ABOVE ANY OPERABLE PORTION OF A WINDOW OR DOOR, MC TO OFFSET AS REQUIRED...
K. IF MC INSTALLATION RESULTS IN LONGER DRYER DUCT VENT LENGTHS THAN NOTED THEN THE OWNER/ ARCH MUST BE INFORMED TO ENSURE PROPER DRYERS ARE INSTALLED...
L. INSTALL PERMANENT NAMEPLATE AT ALL DRYER CONNECTIONS WITH 1/4" TEXT STATING THE REQUIRED DUCT LENGTH AND ELBOWS FOR EACH...
5. INSULATION
A. ALL ROUND CONCEALED RIGID SUPPLY DUCTWORK SHALL BE EXTERNALLY WRAPPED WITH NOMINAL 1-1/2" THICK (MINIMUM R-6.0) FIBER GLASS INSULATION WITH FIRE RETARDANT VAPOR BARRIER...
B. OUTDOOR AIR INTAKE DUCTS SHALL BE EXTERNALLY WRAPPED WITH NOMINAL 1-1/2" THICK (MINIMUM R-6.0) FIBER GLASS INSULATION WITH FIRE RETARDANT VAPOR BARRIER...
C. WHEN LOCATED IN UNCONDITIONED SPACES ALL RECTANGULAR DUCTWORK SHALL BE LINED WITH 1-1/2" THICK 2 POUND DENSITY (MINIMUM R-6.0) FIBER GLASS ACOUSTIC DUCT LINER...
D. ALL DUCTWORK EXPOSED TO OUTDOOR AMBIENT TYPE CONDITIONS (UNCONDITIONED ATTICS; FOR EXAMPLE: EXHAUST, SUPPLY, RETURN, ETC) SHALL BE EXTERNALLY WRAPPED AND INTERNALLY LINED (MINIMUM R-12.0)...
E. PER SMACNA GUIDELINES...
F. RECTANGULAR DUCT WORK IN RETURN AIR PLENUM SHALL BE LINED WITH 1/2" THICK 2 POUND DENSITY (MINIMUM R2.1) MAT-LACED ACOUSTIC DUCT LINER...
G. CONDENSATE DRAIN PIPING SHALL BE 1/2-INCH-THICK INSULATION, PROVIDE WITH AN ALL-SERVICE JACKET WHEN EXPOSED...
H. INSULATE REFRIGERANT SUCTION LINES WITH 3/4" FOAM PLASTIC CELLED CELL INSULATION...
6. AIR INLETS AND OUTLETS
A. FURNISH AND INSTALL AIR INLETS AND OUTLETS AS SCHEDULED ON THE PLANS...
B. OUTLETS SHALL HAVE A WHITE BAKED ENAMEL FINISH TO MATCH CEILING OR WALL...

- 8. EXHAUST FANS
A. FURNISH AND INSTALL CENTRIFUGAL EXHAUST FANS AS SCHEDULED ON THE PLANS...
B. FURNISH AND INSTALL HEAT PUMP AND MATCHING INDOOR EVAPORATOR COILS OF THE SAME MANUFACTURER AS SCHEDULED ON THE PLANS...
C. FURNISH AND INSTALL UNITS COMPLETE WITH ALL OPERATIONAL AND SAFETY CONTROL NECESSARY FOR OPERATION...
9. FURNACES WITH HEAT PUMP
A. FURNISH AND INSTALL NATURAL GAS FURNACE UNITS AS SCHEDULED ON THE PLANS...
B. FURNISH AND INSTALL HEAT PUMP AND MATCHING INDOOR EVAPORATOR COILS OF THE SAME MANUFACTURER AS SCHEDULED ON THE PLANS...
C. REFRIGERANT LINE SETS SIZED PER MANUFACTURERS RECOMMENDATIONS...
D. FURNISH AND INSTALL UNIT COMPLETE WITH ALL OPERATIONAL AND SAFETY CONTROLS FOR SATISFACTORY OPERATION...
E. INSPECT AND REPORT ANY DISCREPANCIES TO THE ARCHITECT PRIOR TO ATTEMPTING TO SET UNITS...
F. PROVIDE SECONDARY DRAIN PAN FOR AIR HANDLING UNIT...
12. ELECTRIC HEATING UNITS
A. FURNISH AND INSTALL ELECTRIC HEATING EQUIPMENT AS SCHEDULED AND INDICATED ON THE PLANS...
B. ELECTRIC UNIT HEATERS SHALL BE FURNISHED COMPLETE WITH ALL MOUNTING HARDWARE AND ACCESSORIES INCLUDING SPACE THERMOSTAT AND/OR SELF-CONTAINED THERMOSTAT AS REQUIRED FOR OPERATION...
C. PROVIDE WHITE COLOR FINISH UNLESS OTHERWISE INDICATED...
D. ALL UNITS SHALL BE UL LISTED...
E. MC SHALL REVIEW SURFACE VERSUS RECESS MOUNTING OPTIONS WITH GC PRIOR TO ORDERING EQUIPMENT...
13. RADIANT HEATING UNITS
A. FURNISH AND INSTALL NATURAL GAS FIRED RADIANT HEATING UNITS AND ASSOCIATED ACCESSORIES AS SCHEDULED ON THE PLANS...
B. UNITS SHALL BE COMPLETE WITH PLUGS FOR ELECTRICAL CONNECTION, SPACE THERMOSTATS, TUBE EXTENSIONS, FLUES, AND ROOF CAPS AS REQUIRED...
15. CONTROL SYSTEM
A. FURNISH AND INSTALL A COMPLETE SYSTEM OF ELECTRIC/ELECTRONIC CONTROL FOR THE SYSTEMS INSTALLED TO PROVIDE THE FOLLOWING SEQUENCES OF OPERATION...
B. SYSTEMS SHALL BE INDEPENDENT AND STAND ALONE IN OPERATION AND SEQUENCE...
C. FURNACE AND CONDENSING UNITS
1. UNIT SHALL BE STARTED AND STOPPED FROM AN INDEPENDENT PROGRAMMABLE THERMOSTAT...
2. WIRING INCLUDING UNIT SHUT DOWN FROM DUCT SMOKE DETECTORS FURNISHED BY THE ELECTRICAL CONTRACTOR...
3. UNITS SHALL MAINTAIN LOCAL SPACE TEMPERATURE BY THE USE OF ELECTRIC REFRIGERATION AND NATURAL GAS HEATING SECTIONS...
4. DURING UNOCCUPIED HOURS THE UNIT FAN SHALL CYCLE ON A CALL FOR HEATING OR COOLING AND THE OUTSIDE AIR DAMPER SHALL BE CLOSED...
D. ELECTRIC HEAT
1. LOCAL ELECTRIC UNIT HEATERS SHALL BE CONTROLLED BY LOCAL SPACE THERMOSTATS WITH HEAT OFF, FAN AUTO AND CONTINUOUS SWITCHES OR SELF-CONTAINED UNIT SPACE THERMOSTATS AS APPROPRIATE...
E. EXHAUST FANS
1. EXHAUST FANS TO BE CONTROLLED AS INDICATED ON THE SCHEDULES...
F. GAS UNIT HEATERS
1. LOCAL GAS FIRED UNIT HEATERS SHALL BE CONTROLLED BY LOCAL SPACE THERMOSTATS WITH HEAT OFF, FAN AUTO, AND CONTINUOUS FAN SWITCHES...

ABBREVIATIONS table listing symbols and their corresponding meanings for various mechanical components like DEMO, EXISTING, NEW, AIR ADMITTANCE VALVE, AREA DRAIN, FINISH FLOOR, AIR HANDLING UNIT, BOILER, BASEBOARD, BOOSTER FAN, BACKFLOW PREVENTER, BATH TUB, BALL VALVE, CONDENSATE DRAIN, CUBIC FEET PER MINUTE, CHILLER, CLINICAL SINK, CONDENSING UNIT, CHECK VALVE, CABINET UNIT HEATER, DOMESTIC COLD WATER, DRINKING FOUNTAIN, DOWN SPOUT NOZZLE, EVAPORATIVE COOLER, ELECTRICAL CONTRACTOR, END OF LINE CLEANOUT, ELECTRIC DUCT HEATER, EXHAUST FAN, ENERGY RECOVERY UNIT, EXISTING REMOVED & RELOCATED, EMERGENCY EYEWASH, ELECTRIC WATER COOLER, ELECTRIC WATER HEATER, FURNACE, FLOOR/GRADE CLEANOUT, FAN COIL UNIT, FLOOR DRAIN, FLOOR SINK, GAS, GENERAL CONTRACTOR, GAS METER, GALLONS PER HOUR, GPM, GALLONS PER MINUTE, GR, GAS REGULATOR, GAS UNIT HEATER, GREASE WASTE, GW, GAS WATER HEATER, HOSE BIB, HP, HEAT PUMP, HEAT EXCHANGER, ICE MAKER BOX, LAVATORY, LAUNDRY SINK, MAKE-UP AIR UNIT, MECHANICAL CONTRACTOR, MEASURE FLOW, NOT IN CONTRACT, NORMALLY CLOSED, NORMALLY OPEN, NOT TO SCALE, OPPOSITE BLADE DAMPER, OVER FLOW ROOF DRAIN, PUMP, PLUMBING CONTRACTOR, PARALLEL FAN TERMINAL, PRESSURE REDUCING VALVE, POUNDS PER SQUARE INCH, PSIG, PRESSURE GAUGE, RA, RETURN AIR REGISTER, RAR, ROOF DRAIN, RE, RELOCATE EXISTING, REFLUS, REFRIGERANT LIQUID/SUCTION LINE, RADIANT HEATER, RTU, ROOF TOP UNIT, SA, SUPPLY AIR, SAR, SUPPLY AIR REGISTER, SF, SUPPLY FAN, SFT, SERIES FAN TERMINAL, SH, SHOWER, SK, SINK, SOI, SAND/OIL INTERCEPTOR, SS, SERVICE SINK, T&P, TEMPERATURE & PRESSURE, TD, TRENCH DRAIN, TYP, TYPICAL, UR, URINAL, VAV, VARIABLE AIR VOLUME, VVT, VARI TRAC, WB, WASHER BOX, WC, WATER CLOSET/WATER COLUMN, WCD, WALL CLEANOUT COLUMN, WH, WALL HYDRANT

MECHANICAL LEGEND table listing symbols for supply/return/exhaust lines, diffusers, registers, flexible ducts, air devices, equipment tags, plan codes, branch IDs, outdoor unit systems, future/demo/existing work, connection points, disconnection points, thermostats, sensors, humidistats, pumps, elbows, tees, valves, and electric unit heaters.

DESIGN CRITERIA table with columns for JURISDICTION, PROJECT ALTITUDE, MECHANICAL CODE, ENERGY CODE, DESIGN WEATHER STATION, CLIMATE ZONE, SUMMER DESIGN TEMP DB / MCWB, WINTER DESIGN TEMP DB, INDOOR COOLING SET POINT, INDOOR HEATING SET POINT.

MECHANICAL SHEET LIST table with columns for NUMBER, TITLE, SHEET SPECIFICATIONS, MECHANICAL SCHEDULES, FLOOR PLANS - MECHANICAL DEMO, FLOOR PLANS - MECHANICAL, MECHANICAL DIAGRAMS, MECHANICAL ENERGY CALCULATIONS.

Vertical branding and contact information including ALLED & ASSOCIATES logo, ARCHITECTURE | PLANNING | INTERIOR DESIGN, BENNETT COMMUNITY SAFETY, 365 PALMER AVENUE, BENNETT, COLORADO 80102, TENANT FINISH, JOB NO. 2303, SHEET SPECIFICATIONS, and a large M0.1 graphic.

REVISION NAME and DATE table with empty rows for tracking changes.

ISSUE DATE: 2023 06 19

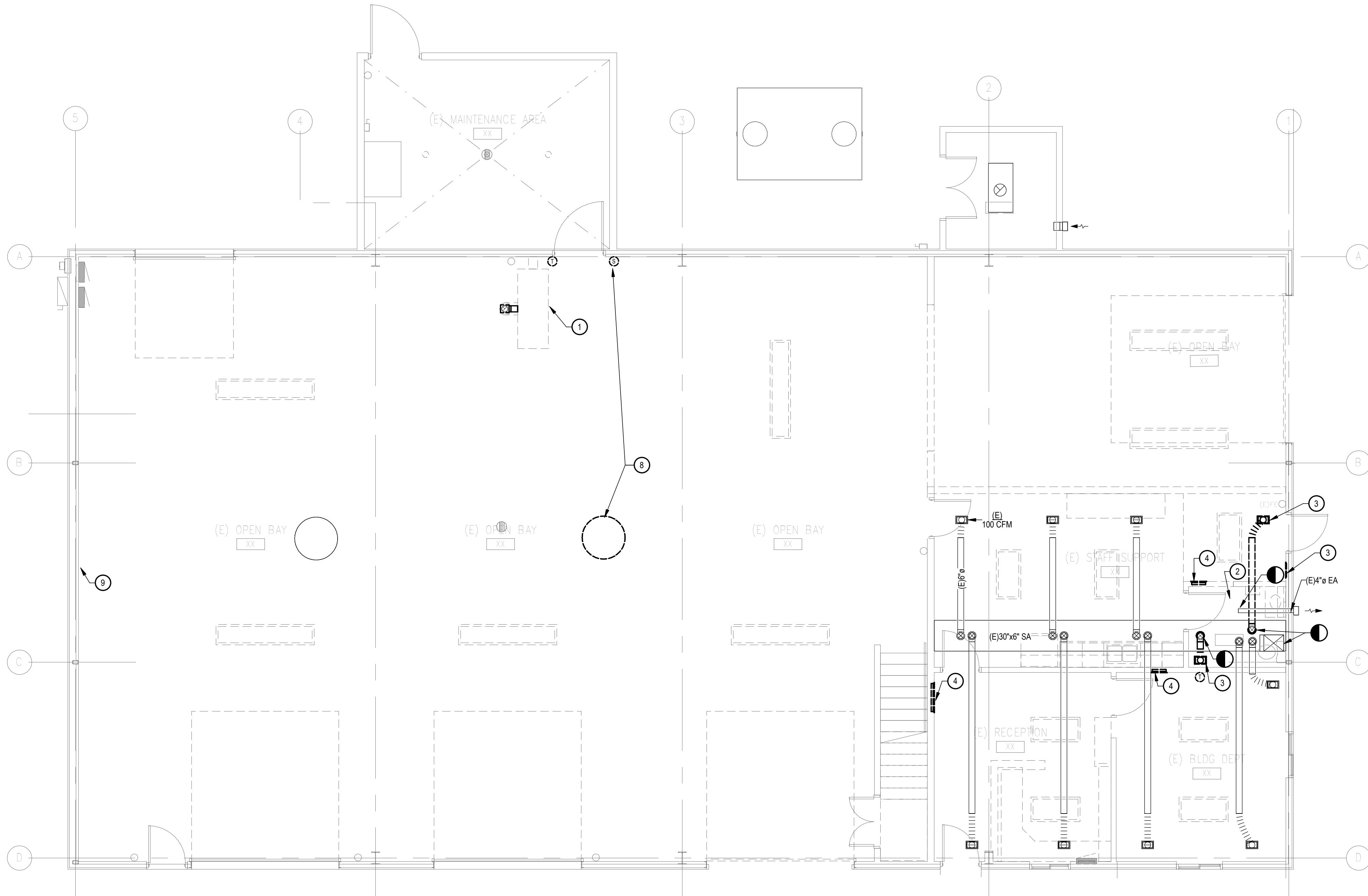
GIVEN & ASSOCIATES INC. 735 S. Xenon Ct. #201, Lakewood, Colorado 80228, Ph: 303.716.1270, Fax: 303.716.1272, www.givenandassociates.com, Given Project # 23059

DRAWING NOTES:

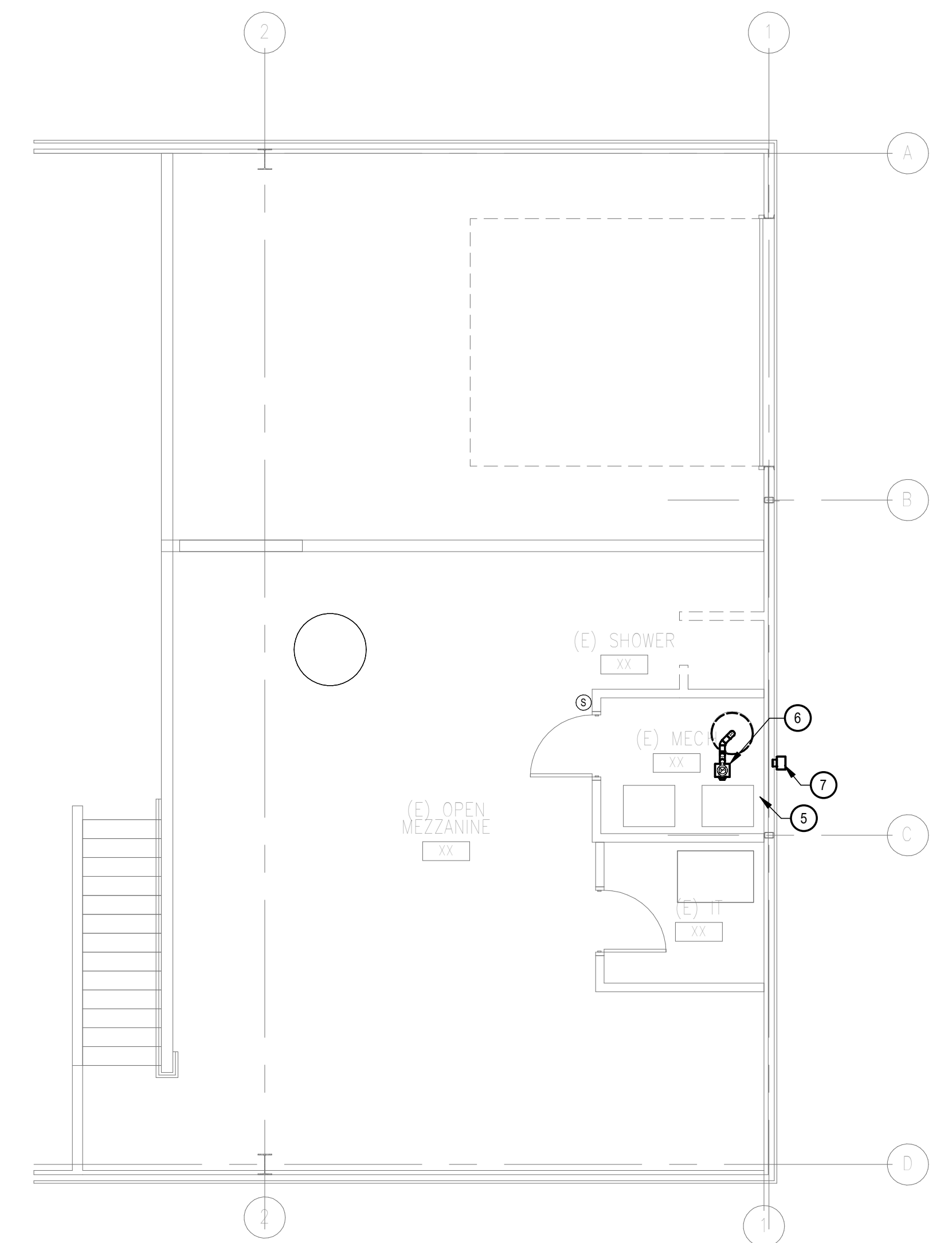
- COORDINATE ALL PATCH AND REPAIR WORK WITH GC.
- CAP AND SEAL ANY UNUSED DUCT BRANCHES.

KEY NOTES:

- REMOVE EXISTING OIL-FIRED HEATER AND ALL ASSOCIATED PIPING, CONTROLS, AND FLUE.
- REMOVE EXISTING EXHAUST FAN, RETAIN DUCTING FOR RECONNECTION.
- REMOVE EXISTING SUPPLY AIR DEVICE AND CAP DUCT.
- REMOVE EXISTING RETURN AIR DEVICE.
- REMOVE EXISTING FURNACE AND ASSOCIATED SUPPLY AND RETURN DUCTING ON MEZZANINE. REMOVE ASSOCIATED CONTROLS AND FLUE PIPING.
- REMOVE WATER HEATER FLUE PIPING.
- REMOVE HI-LO COMBUSTION AIR INTAKES TO MECHANICAL ROOM.
- RELOCATE EXISTING DESTRATIFICATION FAN AND ASSOCIATED CONTROLS.



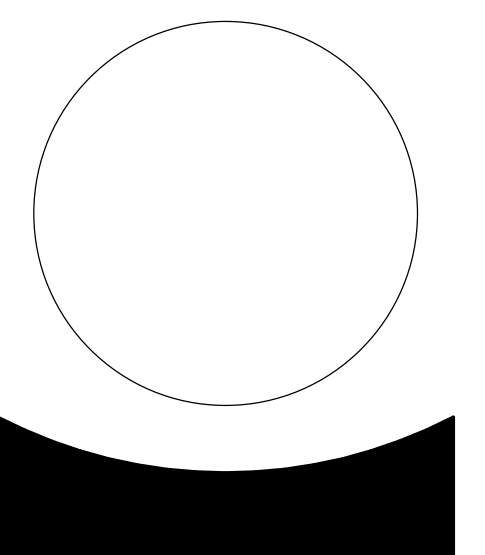
1 LEVEL 1 FLOOR PLAN - MECHANICAL DEMO
3/16" = 1'-0"



2 MEZZANINE LEVEL PLAN - MECHANICAL DEMO
3/16" = 1'-0"

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Given Project # 23059

FLOOR PLANS -
MECHANICAL DEMO

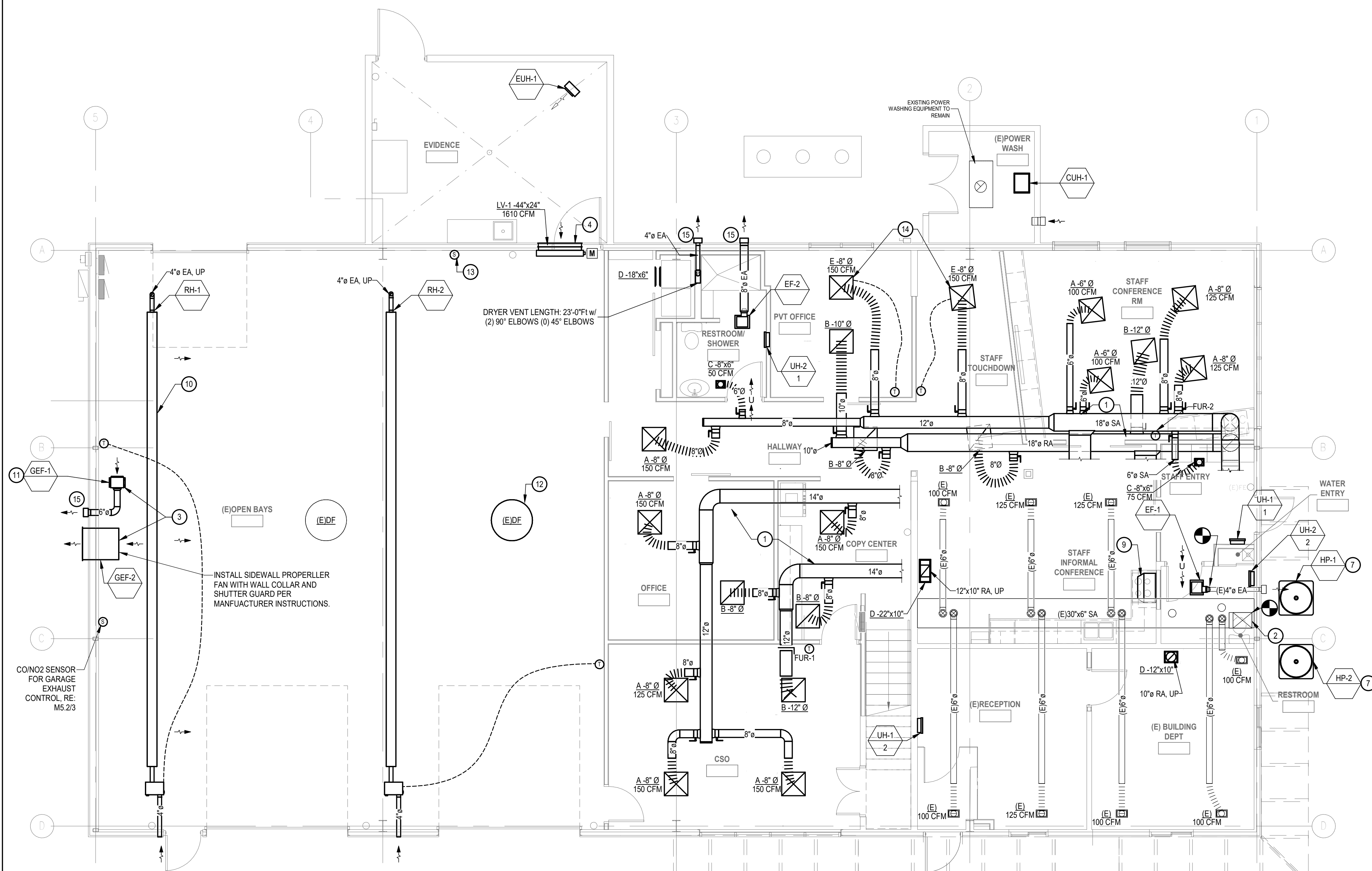
M1.1

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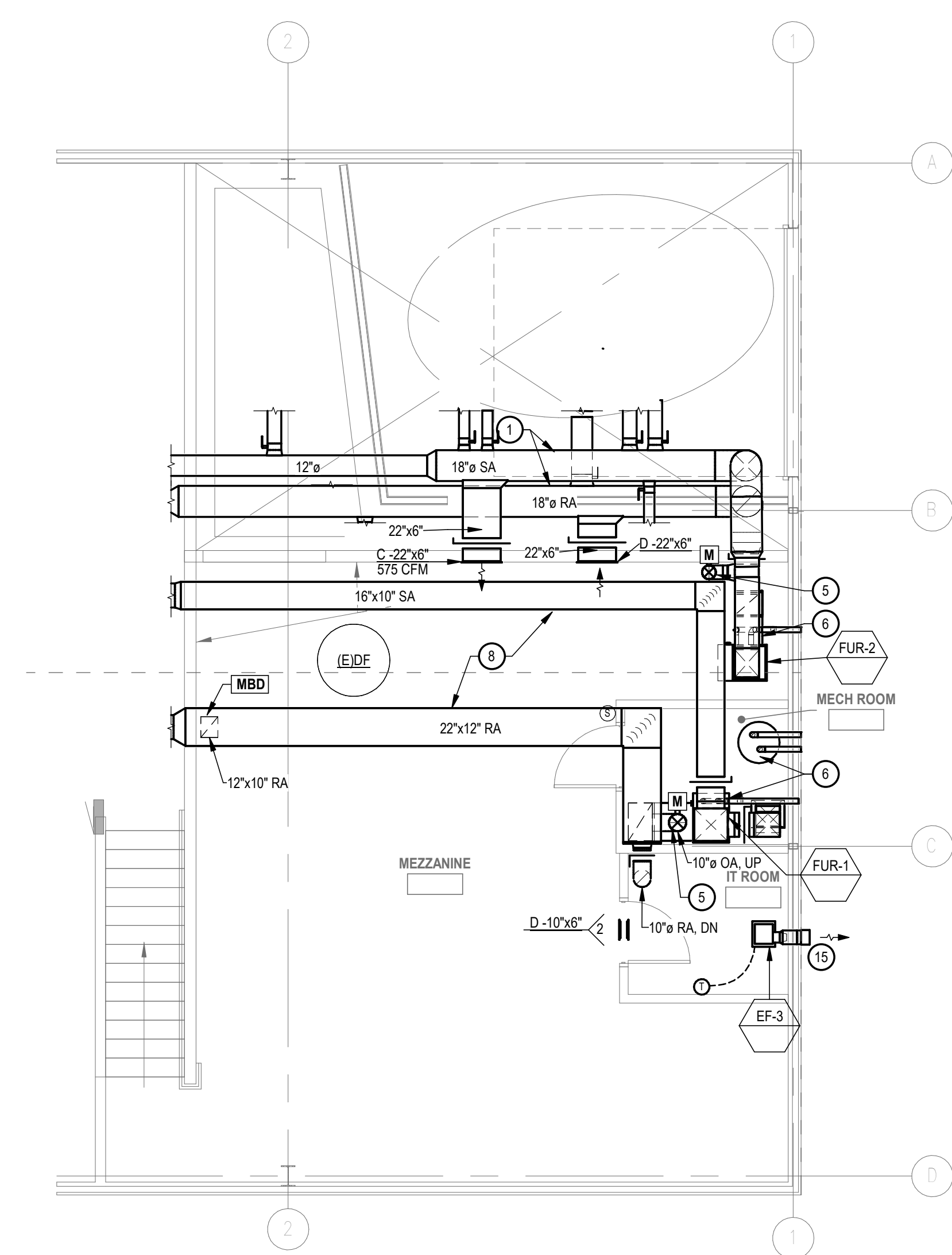
1. COORDINATE ALL PATCH AND REPAIR WORK WITH GC.
2. CAP AND SEAL ANY UNUSED DUCT BRANCHES.

KEY NOTES:

1. ROUND DUCTWORK OVER THE NEW OFFICE SPACE SHALL BE SPIRAL ROUND CONSTRUCTION. VERIFY PAINTING/FINISH REQUIREMENTS WITH ARCHITECT.
2. CONNECT NEW SUPPLY DUCT TO EXISTING DUCT TRUNK IN SOFFIT BELOW.
3. INSTALL GARAGE EXHAUST FANS -13' ABOVE FLOOR.
4. INSTALL INTAKE LOUVER HIGH IN ALL ABOVE ATTACHED STORAGE ROOM. -10' ABOVE FLOOR.
5. ROUTE THE OUTSIDE AIR AIR DUCT UP THROUGH ROOF AND TERMINATE WITH GOOSENECK. PROVIDE MOTORIZED DAMPER INTERLOCKED WITH FURNACE AND BALANCING DAMPER IN OUTSIDE INTAKE AND RETURN DUCTS.
6. ROUTE CPVC FLUE AND COMBUSTION AIR PIPES FROM GAS FIRED EQUIPMENT TO EXTERIOR WALL. VERIFY SIZING AND ROUTING REQUIREMENTS AND TERMINATE PER MANUFACTURER INSTALLATION INSTRUCTIONS.
7. INSTALL CONDENSING UNIT ON CONCRETE PAD. MC TO ROUTE REFRIGERANT LINES TO ASSOCIATED INDOOR DX COIL. COORDINATE LINE SIZE AND ROUTING REQUIREMENTS WITH MANUFACTURER INSTALLATION INSTRUCTIONS.
8. ROUTE NEW SUPPLY AND RETURN DUCTWORK AS HIGH AS POSSIBLE ACROSS MEZZANINE BELOW STRUCTURE.
9. RANGE HOOD PROVIDED BY OWNER. INSTALL EXHAUST DUCTWORK UP TO ROOF TERMINATION PER MANUFACTURER ISNTALLATION INSTRUCTIONS.
10. INSTALL RADIANT TUBE HEATER ANGLED 30° IN TOWARDS GARAGE SPACE.
11. EXHAUST INTAKE OPEN TO GARAGE. PROVIDE WIRE MESH OVER OPENING.
12. RELOCATED DESTRATIFICATION FAN. EXTEND WIRING AS REQUIRED.
13. RELOCATED DESTRATIFICATION FAN SPEED CONTROLLER. EXTEND WIRING AS REQUIRED.
14. VAV DIFFUSERS, PROVIDE WITH FACTORY 120V/24V TRANSFORMER. CORRDNATE LINE VOLTAGE CONNECTION WITH EC.
15. PROVIDE ANGLED WALL CAP AT EXHAUST TERMINATION.



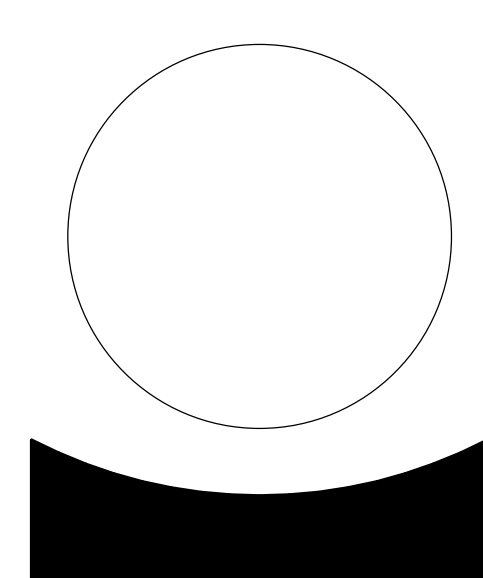
1 LEVEL 1 FLOOR PLAN - MECHANICAL
3/16" = 1'-0"



2 MEZZANINE LEVEL PLAN - MECHANICAL
3/16" = 1'-0"

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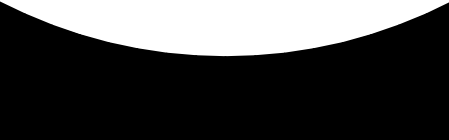
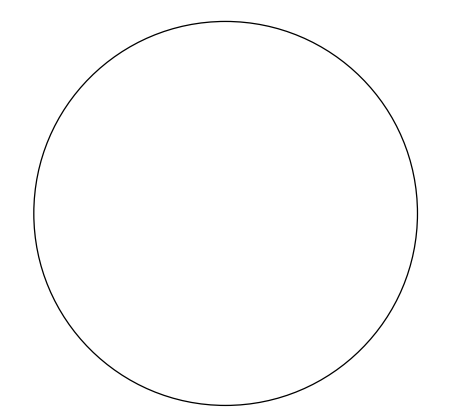
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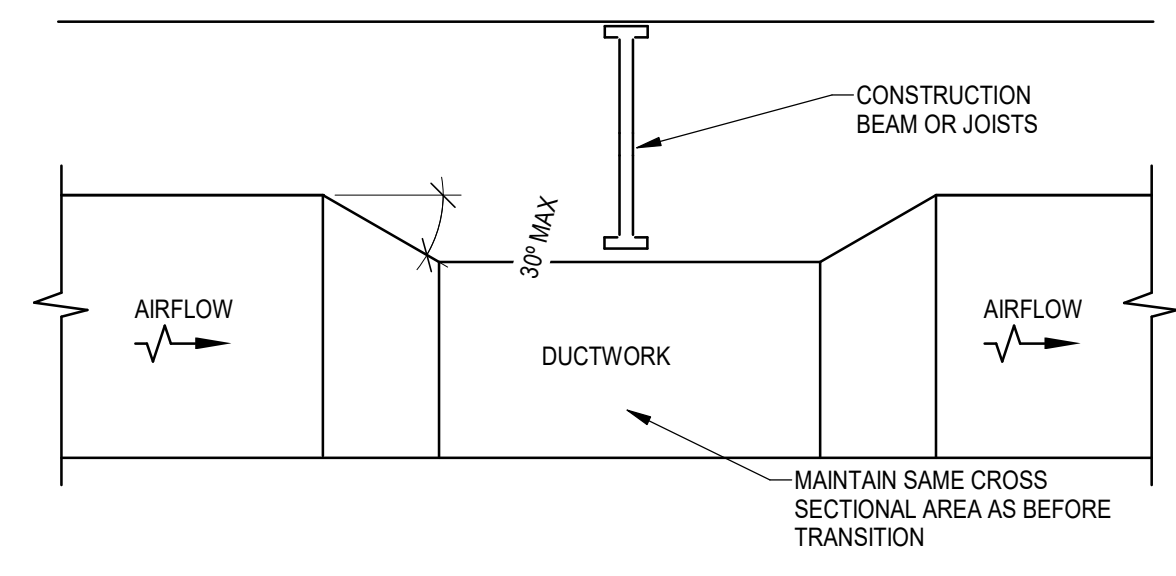
FLOOR PLANS -
MECHANICAL

M2.1

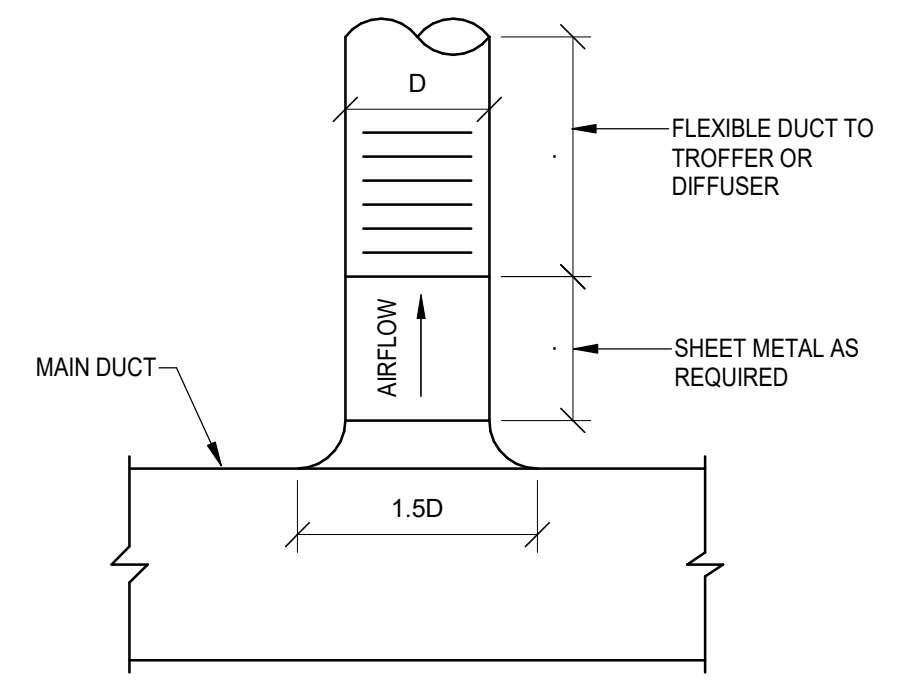


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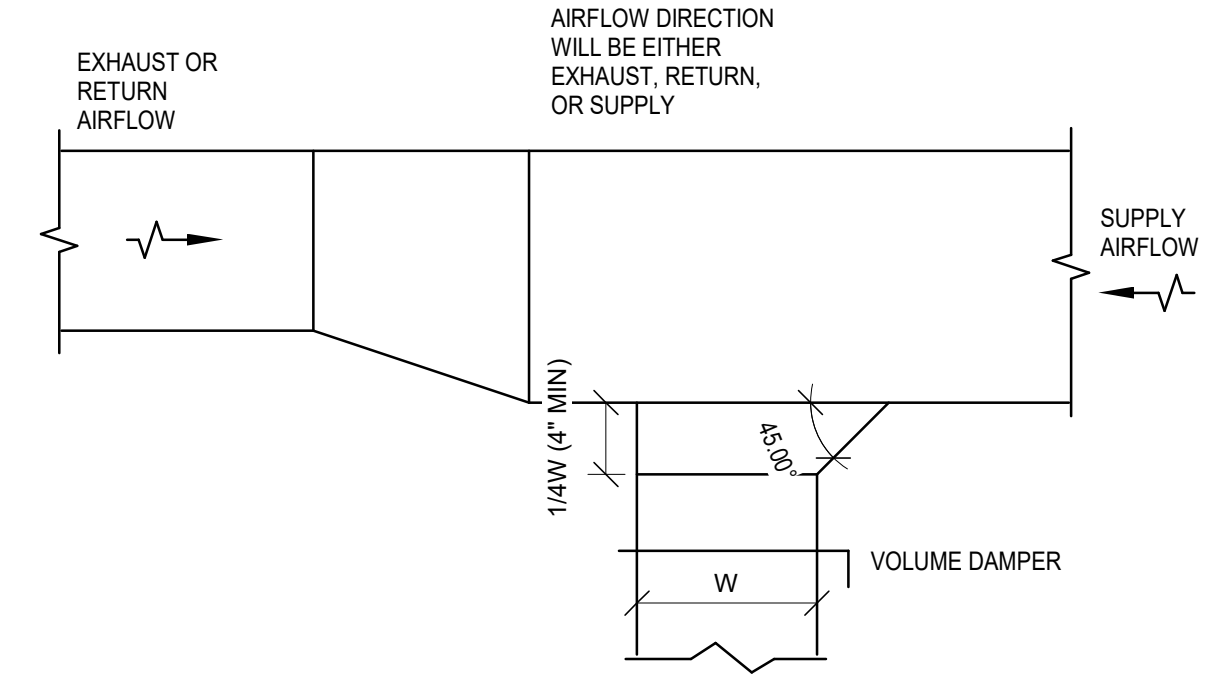
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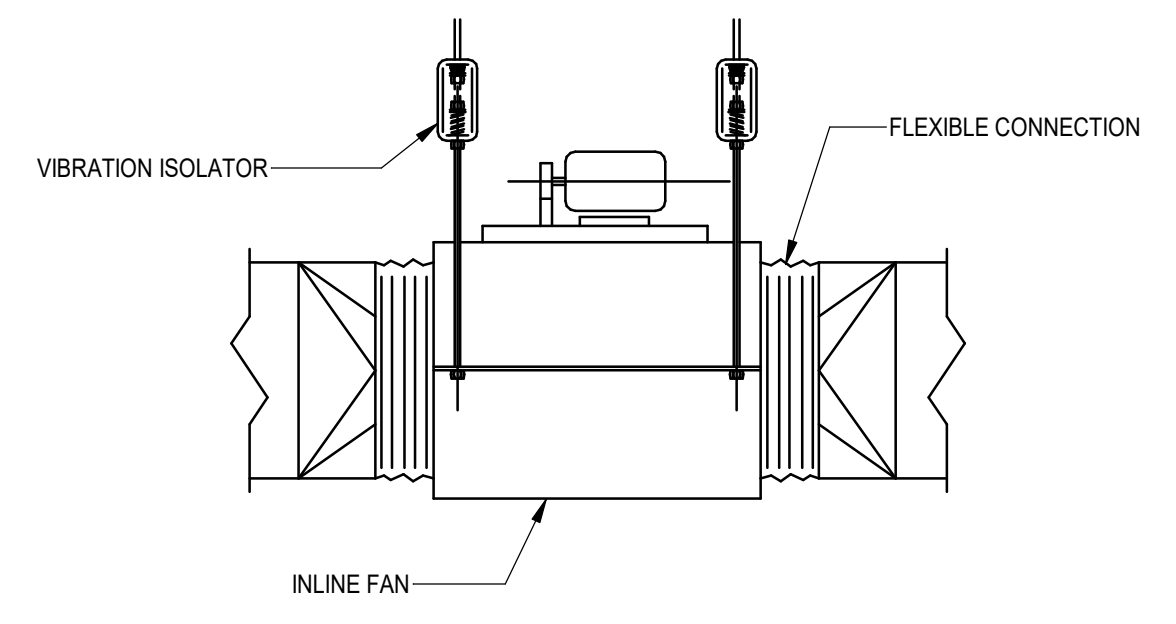
3 DUCT OFFSET DIAGRAM
N.T.S.



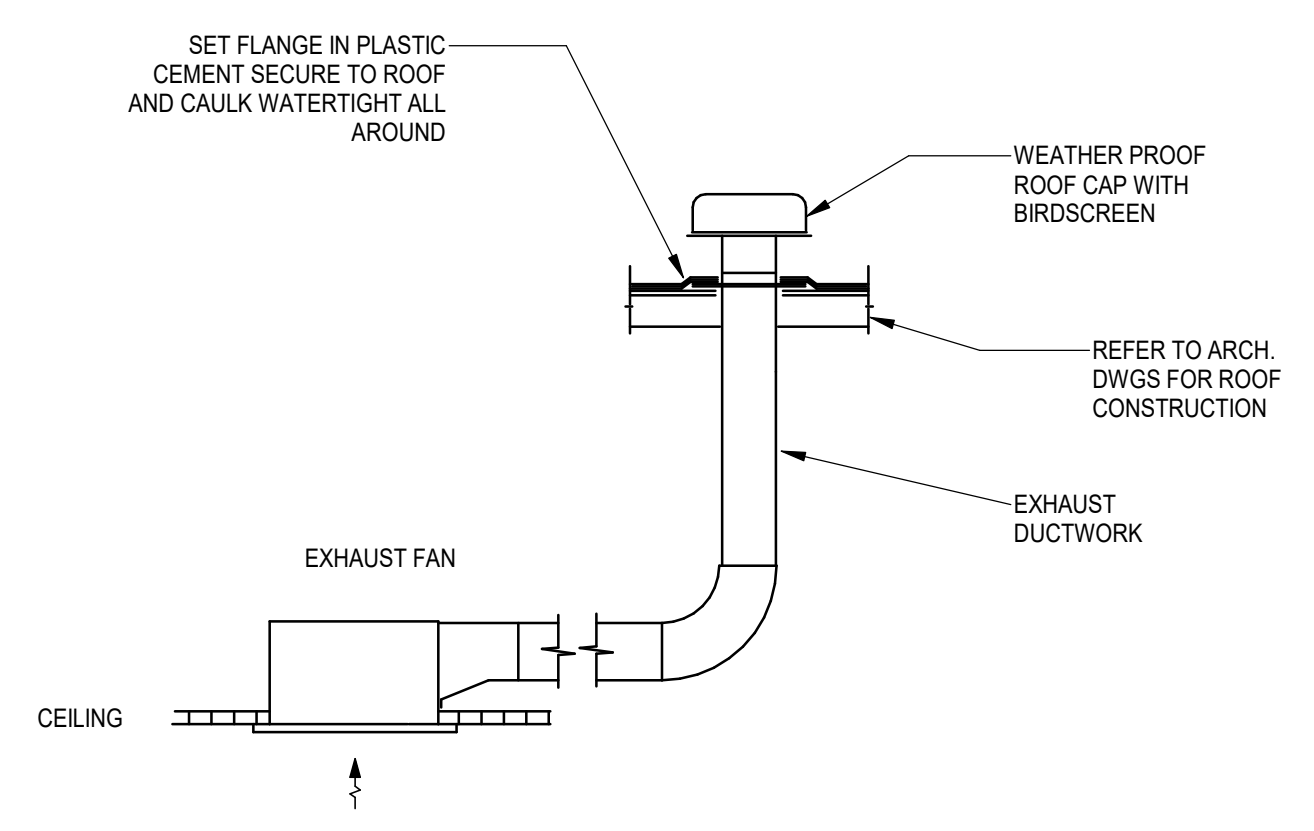
2 CIRCULAR BRANCH DUCT DIAGRAM
N.T.S.



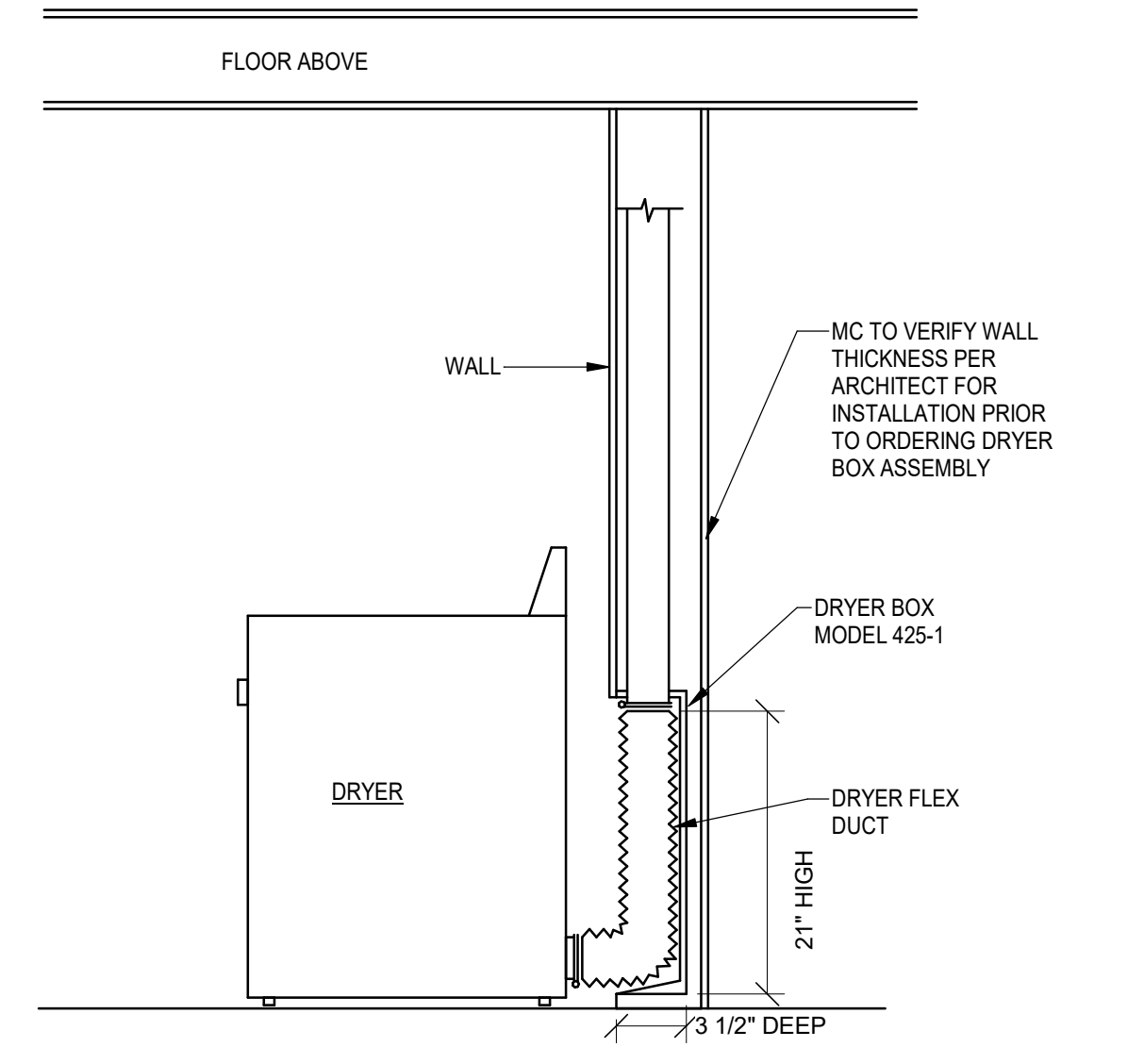
1 BRANCH DUCT DIAGRAM
N.T.S.



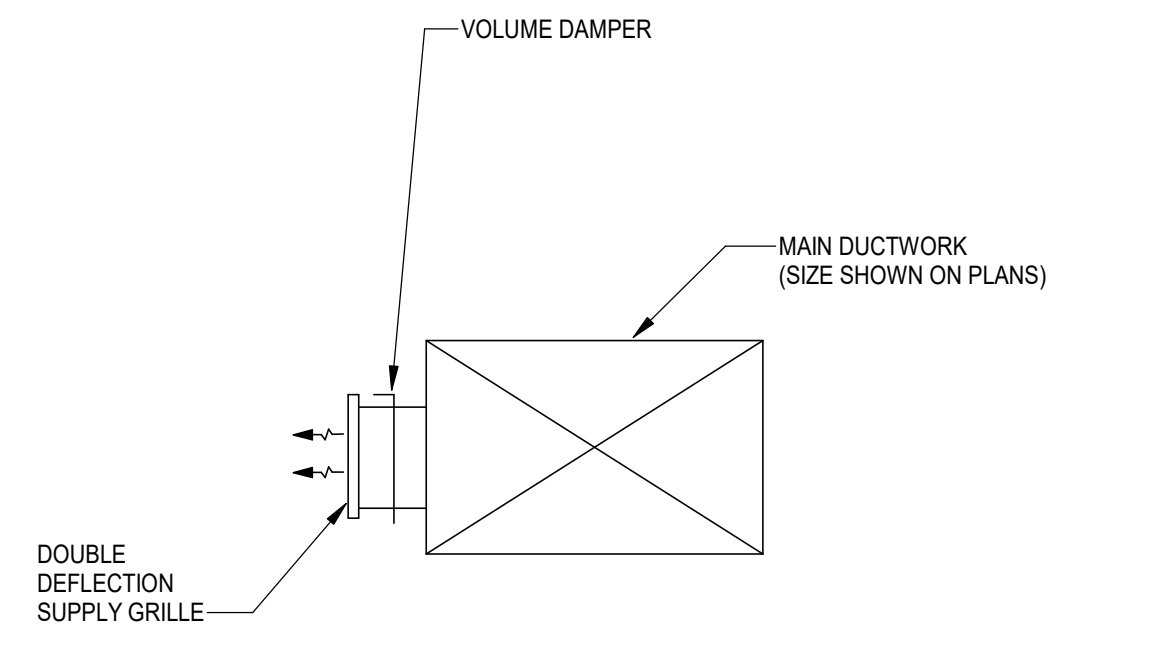
6 INLINE FAN SUPPORT DIAGRAM
N.T.S.



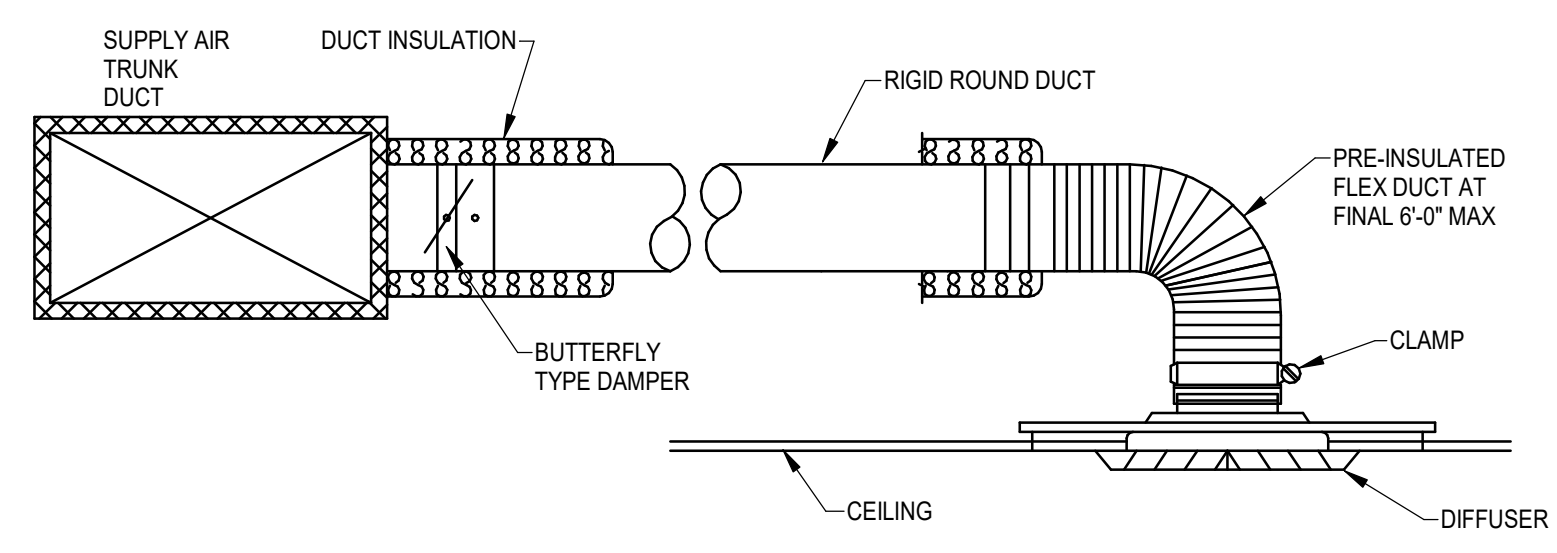
5 EXHAUST FAN DIAGRAM
N.T.S.



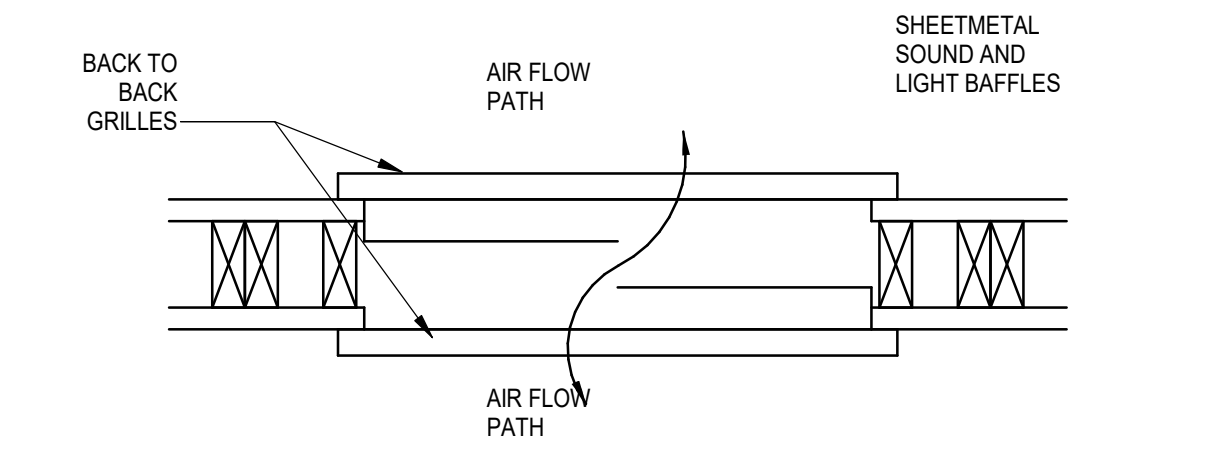
4 DRYER BOX DIAGRAM
N.T.S.



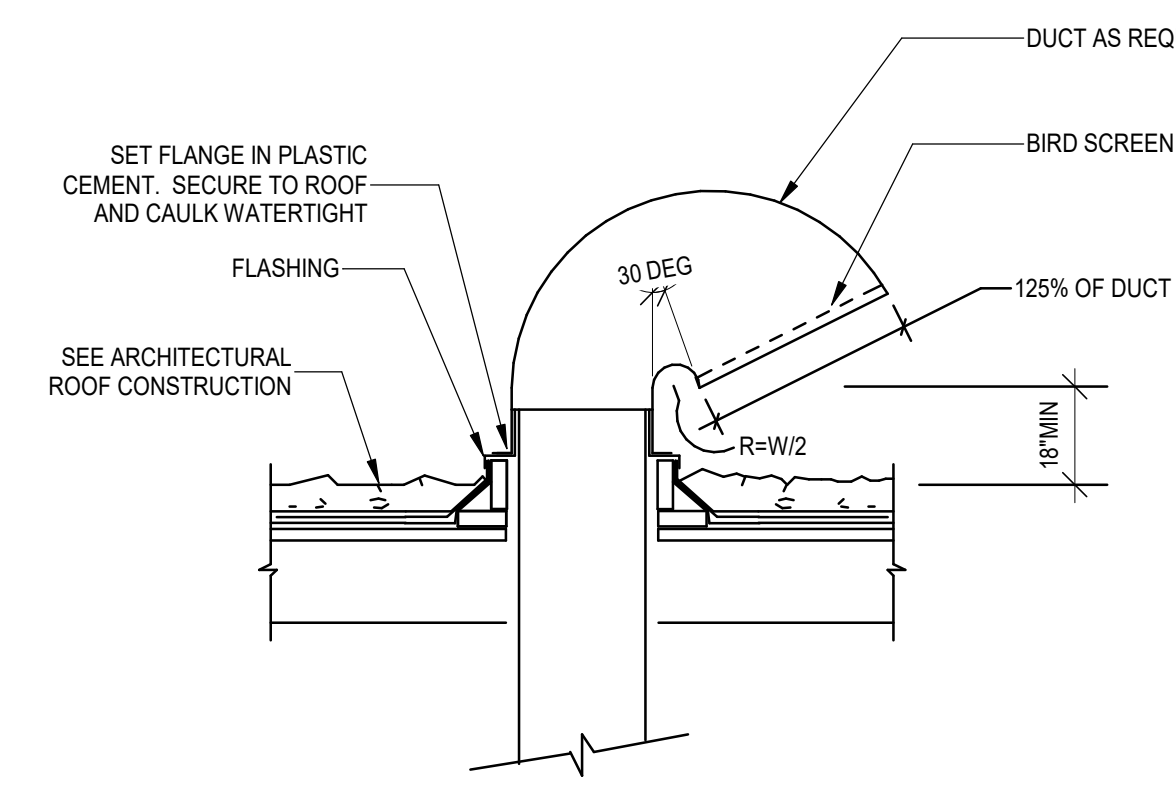
9 EXPOSED DUCT INSTALLTION DIAGRAM
N.T.S.



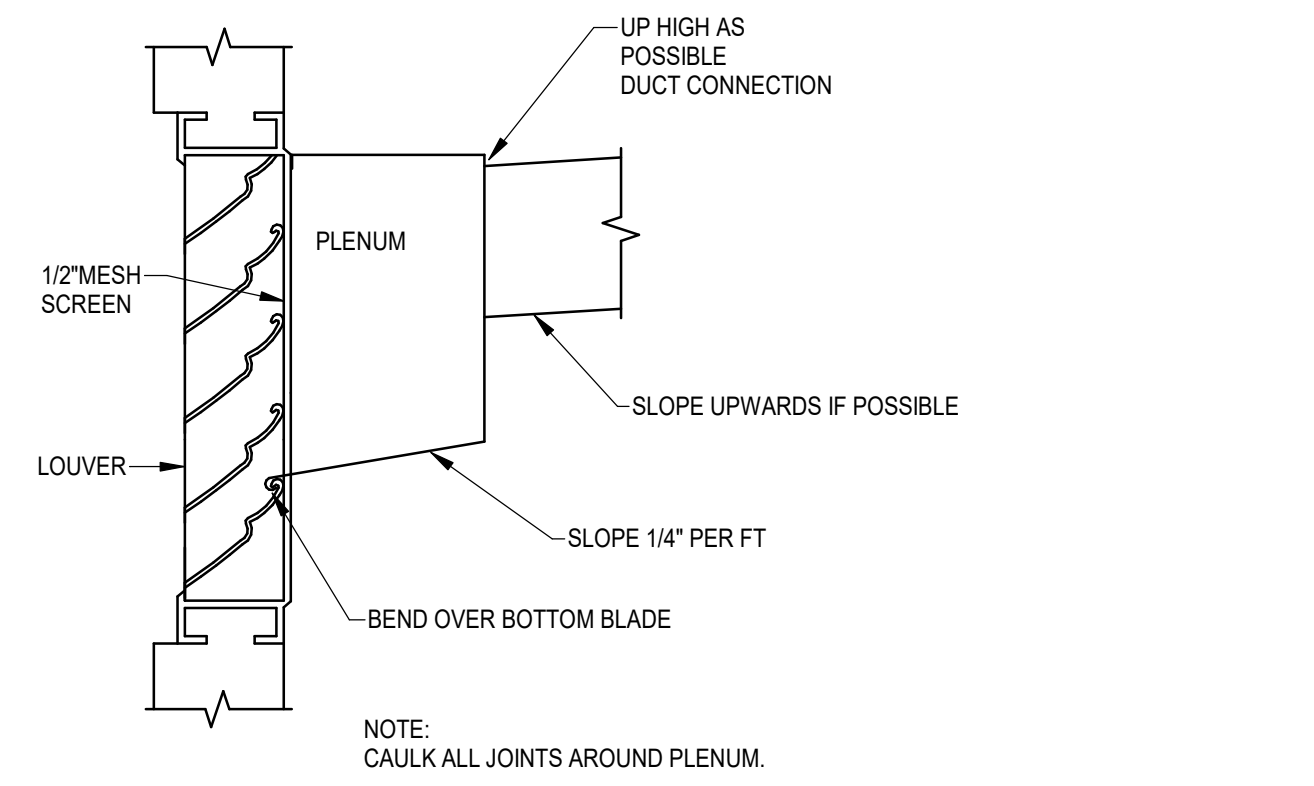
8 DIFFUSER INSTALLATION DIAGRAM
N.T.S.



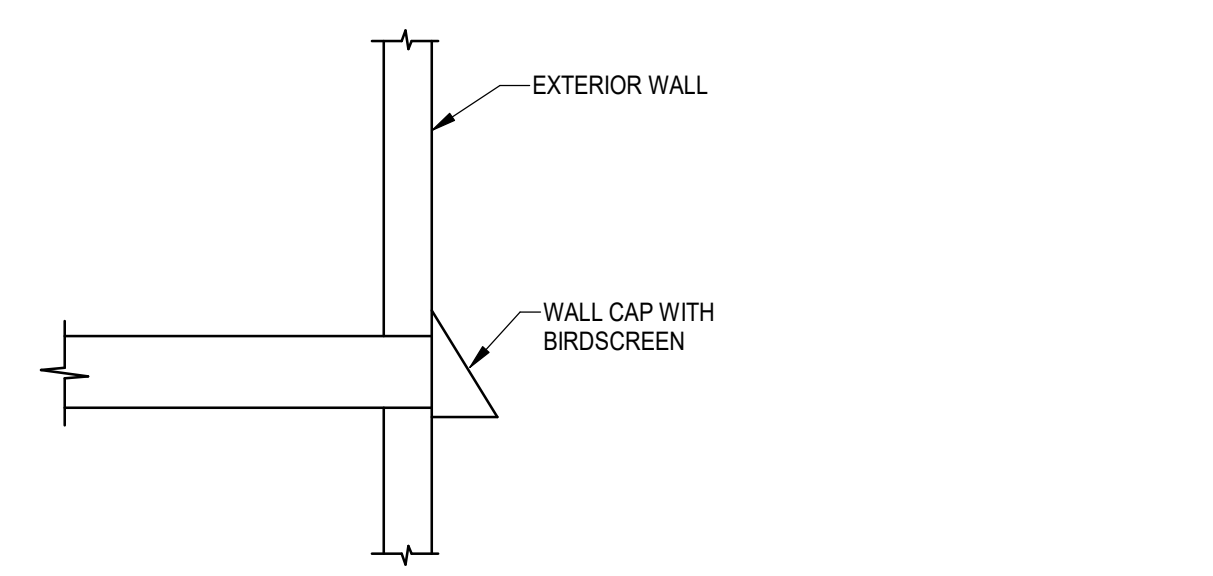
7 AIR TRANSFER DIAGRAM
N.T.S.



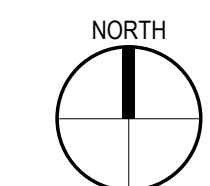
12 GOOSENECK TERMINATION
12" = 1'-0"

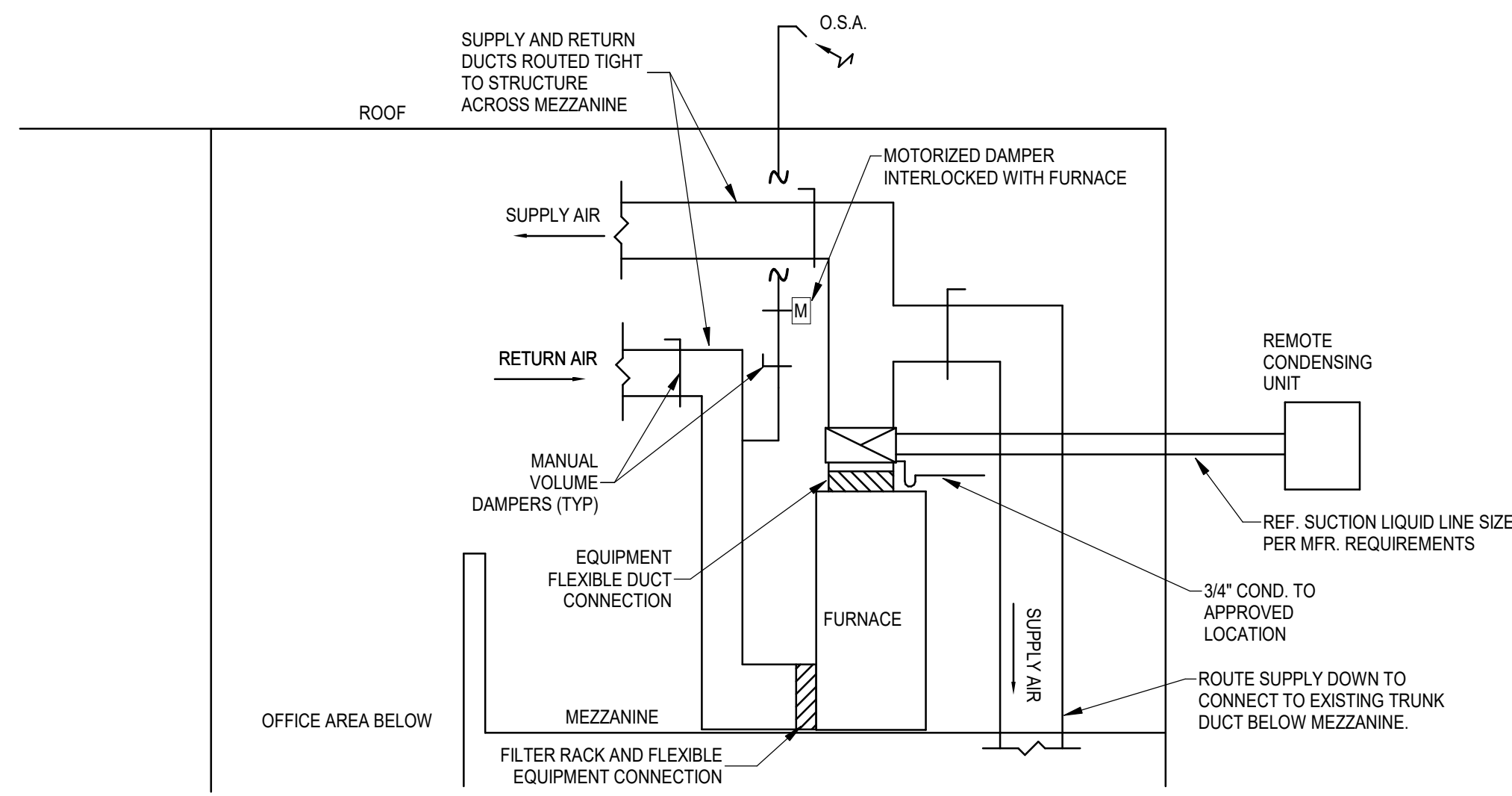


11 LOUVER CONNECTION DIAGRAM
N.T.S.

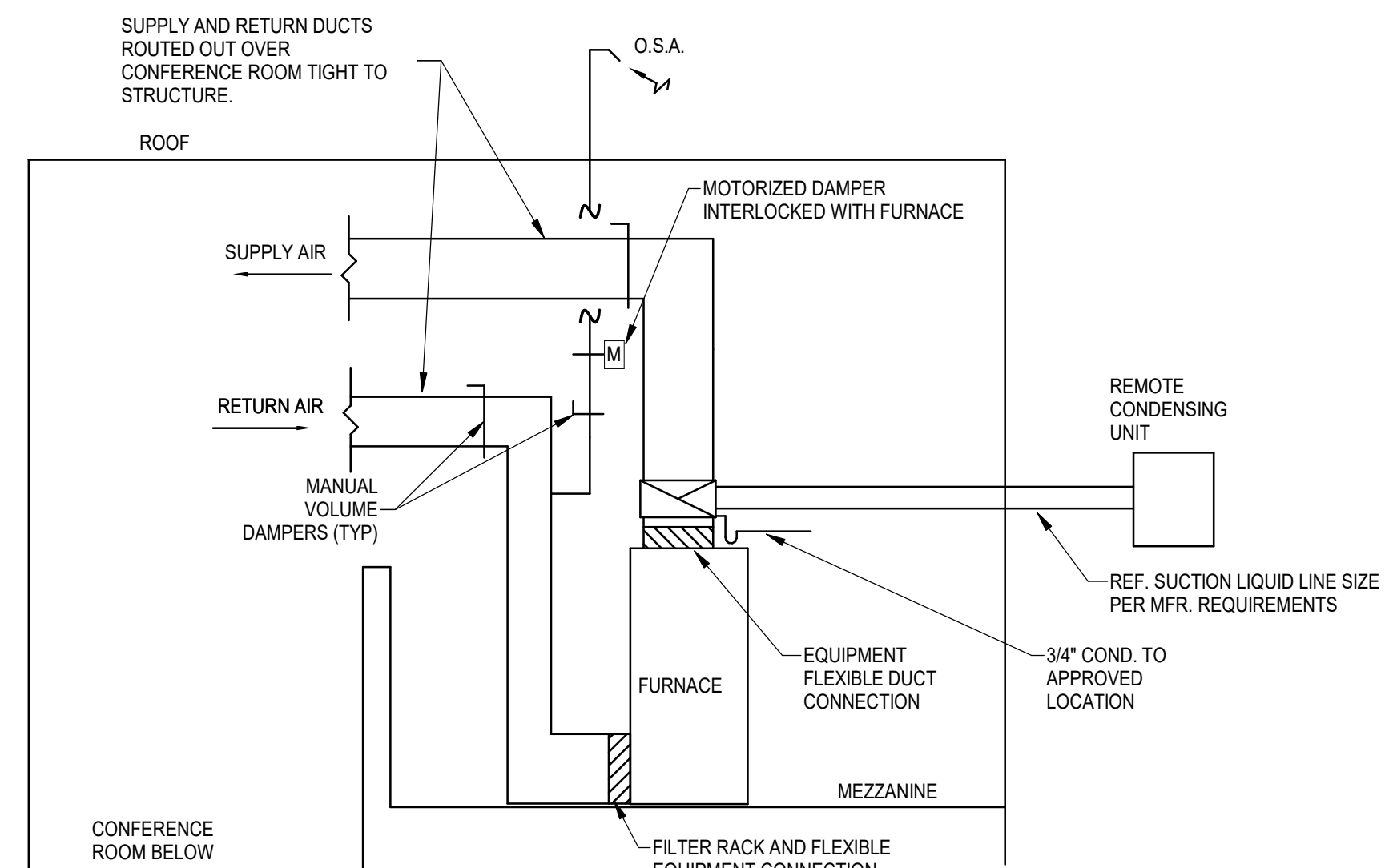


10 EXHAUST WALL CAP DIAGRAM
N.T.S.

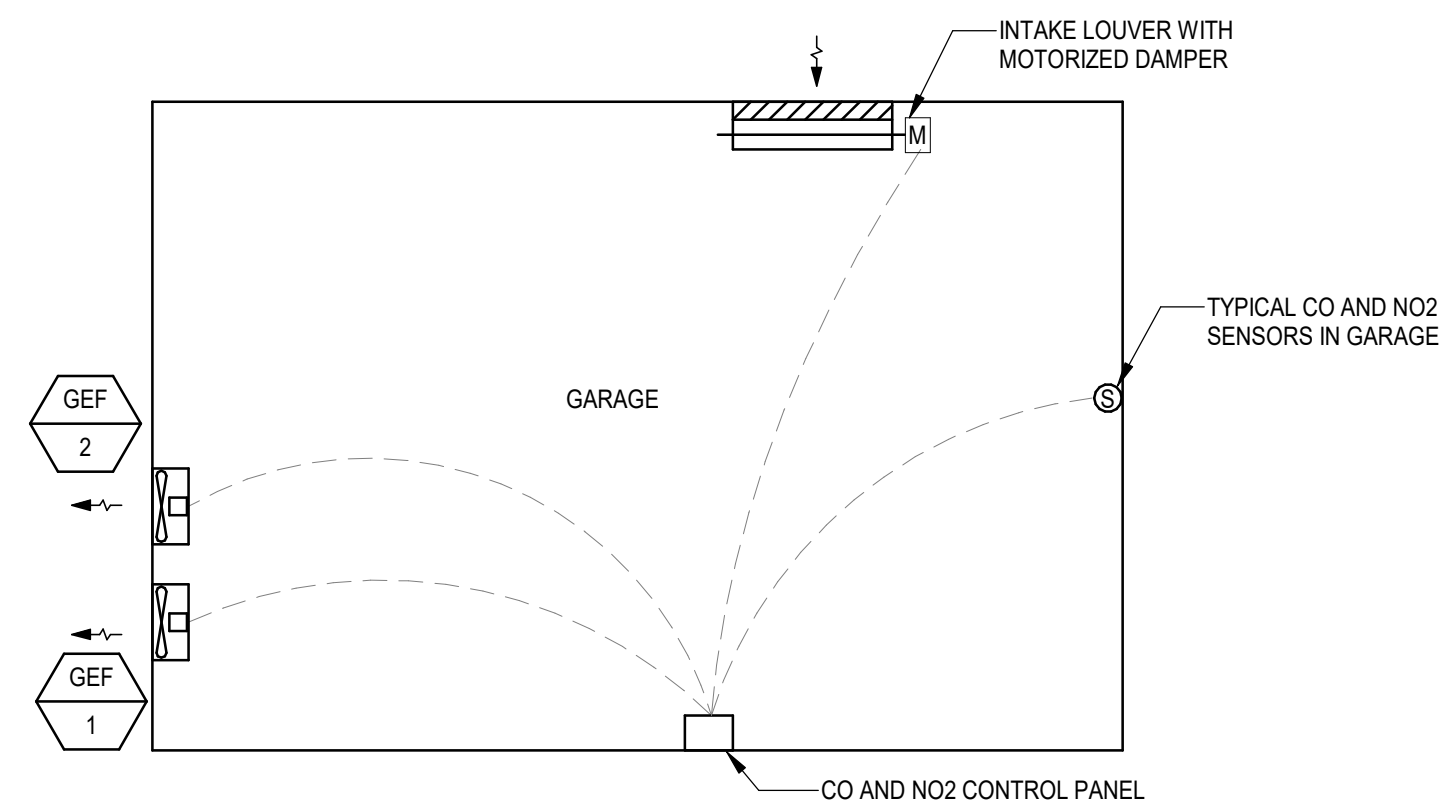




1 FUR-1 COORDINATION DIAGRAM
N.T.S.



2 FUR-2 COORDINATION DIAGRAM
N.T.S.



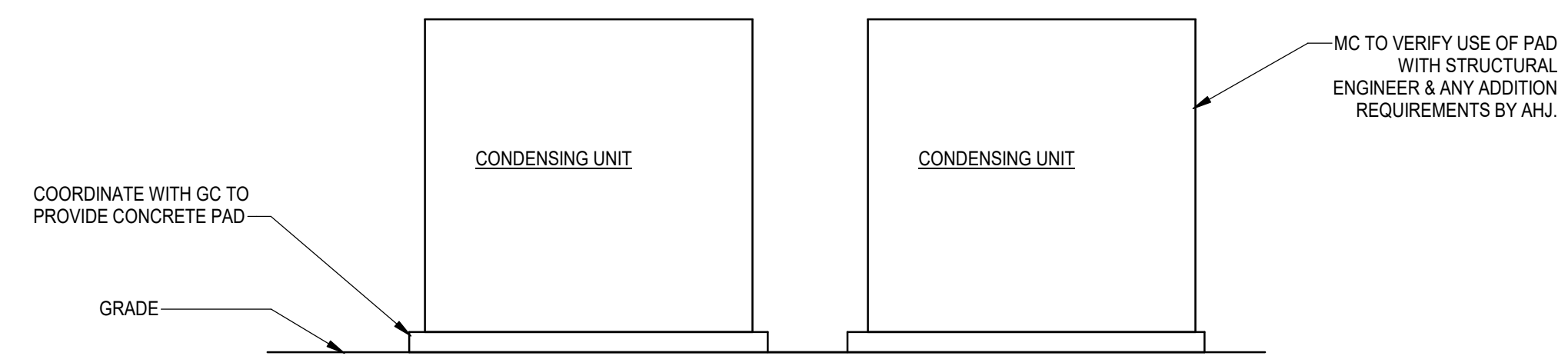
GARAGE EXHAUST REQUIRED PER IMC 404.2, MIN CFM FOR PARKING GARAGE:
CONTINUOUS: [GARAGE(2,122 SF)] * 0.05 CFM/SF = 106 CFM, 110 CFM PROVIDED
GARAGE SENSOR EVENT: 2,122 SF * 0.70 CFM/SF = 1,485 CFM, 1,500 CFM PROVIDED

3 GARAGE EXHAUST DIAGRAM AND SEQUENCE
N.T.S.

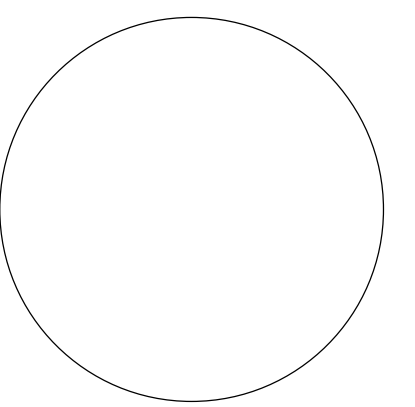
GARAGE GAS DETECTION SEQUENCE OF OPERATION

- A. THE GARAGE GAS DETECTION SYSTEM SHALL HAVE A DEDICATED MICROPROCESSOR-BASED CONTROLLER THAT SHALL MONITOR AND CONTROL THE GARAGE GAS DETECTION SYSTEM IN A STAND-ALONE MODE OR AS A PART OF THE BUILDING AUTOMATION SYSTEM. THE CONTROLLER SHALL HAVE A LOCAL DISPLAY.
- B. THE SYSTEM SHALL CONSIST OF EXHAUST FANS, NATURAL MAKEUP AIR AND MULTIPLE GAS DETECTION SENSORS LOCATED PER SUPPLIER REQUIREMENTS AND RECOMMENDATIONS. THE PLANS ARE ONLY A GUIDE, ALL REQUIRED SENSOR LOCATIONS SHALL BE INCLUDED IN THE BID.
- C. COORDINATE WITH EC TO PROVIDE POWER CONNECTION FOR CONTROL PANEL AND LINE VOLTAGE WIRING AND RELAYS FOR ALL CONTROLLED FANS AND DAMPERS.
- D. THE SENSORS SHALL BE ONE OF THE FOLLOWING TYPES:
 1. MACURCO CM21A
 2. VULCAIN Q2
 3. ERIS G SERIES
 4. MSA Z GUARD
- E. SENSOR EVENT THRESHOLDS
 1. CO: 25 PPM
 2. NO2: 1.0 PPM
- F. EACH SENSOR SHALL HAVE AN INTEGRAL ALARM LIGHT FOR 25, 50 AND 200 PPM CO AS A MINIMUM. AS AN ALTERNATE, A SERIES OF LIGHTS SHALL BE MOUNTED AT EACH SENSOR FOR THIS PURPOSE.
- G. THE CONTROLLER SHALL MONITOR THE FAN STATUS AND IF THE FAN FAILS TO START AN AUDIBLE ALARM SHALL BE SOUNDED IN THE GARAGE TO ANNUNCIATE THE FAILURE. THE FAILURE SHALL AUTOMATICALLY RESET WHEN FAN STATUS IS ESTABLISHED.
- H. GEF-1 SHALL OPERATE CONTINUOUSLY.
- I. THE SYSTEM SHALL MONITOR ALL OF THE GAS DETECTION SENSORS IN THE GARAGE AND DETERMINE THE MAXIMUM VALUE OF ALL OF THE SENSORS. IF THE MAXIMUM VALUE EXCEEDS THE MINIMUM SETPOINT (ADJ.) GEF-2 SHALL OPERATE AND THE INTAKE LOUVER SHALL OPEN. WHEN THE MAXIMUM VALUE DROPS BELOW 80% OF MINIMUM SETPOINT THRESHOLD (ADJ.) THE GEF-2 SHALL TURN OFF AND THE LOUVER SHALL CLOSE. SYSTEM TO EXHAUST A MINIMUM OF 0.75 CFM/SQFT AT HIGH SPEED.
- J. IF ANY SENSOR FAILS THE FAN SHALL OPERATE CONTINUOUSLY AND THE AUDIBLE ALARM SHALL BE SOUNDED. IF ANY SENSOR READING RISES ABOVE 100 PPM CO OR 2.0 PPM NO2, THE AUDIBLE ALARM SHALL BE SOUNDED.
- K. PROVIDE A MANUAL TIMED OVERRIDE CONTROL THAT ALLOWS THE OCCUPANTS TO TURN ON GEF-2 AND OPEN INTAKE LOUVER.
- L. POINTS LIST:
 1. AIP CARBON MONOXIDE SENSORS (AS REQUIRED)
 2. AIP NITROGEN DIOXIDE SENSORS (AS REQUIRED)
 3. AOP FAN ANALOG SPEED REQUEST
 4. BIP FAN STATUS
 5. BOP ALARM LIGHT, HORN WITH SILENCE BUTTON
 6. ALM FAN FAILURE
 7. STPT FAN ENABLE LEVEL
 8. STPT FAN DISABLE LEVEL

END OF SEQUENCE



4 CONDENSING UNIT DIAGRAM -VIBRATION ISOLATION MTD.
N.T.S.



REVISION NAME	DATE

ISSUE DATE: 2023 06 19

THIS SHEET SPECIFICATION SHALL GOVERN IN LIEU OF SEPARATE BOUND SPECIFICATIONS. UPON ISSUANCE SHOULD CONFLICTS ARISE BETWEEN THE SHEET AND THE BOUND SPECIFICATION THEN THE MORE STRINGENT OF THE TWO SHALL PREVAIL.

01. BASIC REQUIREMENTS

- A. PLUMBING PLANS MAY INCLUDE SCOPE INFORMATION FOR OTHER TRADES. GENERAL CONTRACTOR TO FACILITATE COORDINATION OF PERTINENT INFO TO ALL REQUIRED CONTRACTORS. CONTRACTOR SHALL COORDINATE WITH ALL OTHER TRADES PRIOR TO BID TO CONFIRM A COMPLETE SYSTEM IS INCLUDED.
B. PLUMBING DESIGN SHALL CONFORM TO ADOPTED CODES AND ALL LOCAL AMENDMENTS. PROJECT SHALL BE COORDINATED WITH ALL BUILDING SERVICES AND SHALL INCLUDE ALL ITEMS NECESSARY FOR COMPLETE AND FULLY OPERATIONAL PLUMBING SYSTEMS. MAKE CONNECTIONS TO AND EXTEND SYSTEMS INSTALLED BY OTHERS AND/OR FURNISHED BY OTHERS. PROVIDE ACCESSORIES AND INCIDENTAL ITEMS AS REQUIRED FOR A COMPLETE AND FULLY OPERATIONAL SYSTEM WHETHER OR NOT SPECIFICALLY SPECIFIED AND/OR SHOWN ON THE PLANS.
C. DO NOT SCALE FROM THESE DRAWINGS. REFER TO ARCHITECTURAL, STRUCTURAL OR CIVIL DRAWINGS BY OTHER DESIGN PROFESSIONALS FOR DIMENSIONS AND FOR ESTIMATING DISTANCES. THESE DRAWINGS ARE TO BE READ IN CONJUNCTION WITH ALL RELEVANT DRAWINGS AND SPECIFICATIONS RELATING TO THE JOB WHETHER OR NOT INDICATED ON THESE DRAWINGS.
D. ANY SCALE, DIMENSION OR QUANTITIES SHOWN ON THE DRAWINGS ARE FOR ENGINEERING CALCULATION PURPOSES ONLY. DESIGN IS DIAGRAMMATIC IN NATURE AND IS PROVIDED TO CONVEY DESIGN INTENT ONLY. THE EXACT LOCATIONS NECESSARY TO SECURE THE BEST CONDITIONS AND RESULTS MUST BE DETERMINED BY THE SITE CONDITIONS. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR ESTIMATING AND DETERMINING ALL DISTANCES AND QUANTITIES RELATED TO THE PROJECT. REFER TO ALL DRAWINGS BY OTHERS AND VERIFY EXISTING CONDITIONS ON SITE PRIOR TO BID FOR ALL ESTIMATING PURPOSES.
E. COORDINATE WITH OTHER TRADES FOR A COORDINATED INSTALLATION WITHIN THE AVAILABLE SPACE. WHERE CROWDED CONDITIONS EXIST, PREPARE COORDINATION DRAWINGS SHOWING ALL TRADE CONFLICTS AND SUBMIT TO ARCHITECT/ENGINEER FOR APPROVAL AND DIRECTION PRIOR TO ROUGH-IN AND/OR INSTALLATION. RELOCATION OF WORK MADE PRIOR TO ROUGH-IN SHALL BE DONE AT NO ADDITIONAL COST. PROVIDE OFFSETS AT CHANGES OF DIRECTION AND TO AVOID OBSTRUCTIONS AT NO ADDITIONAL COST TO OWNER.
F. ALL WORK SHALL BE PERFORMED BY PROPERLY LICENSED CONTRACTORS OR UNDER THEIR DIRECT SUPERVISION. ALL MATERIALS AND EQUIPMENT SHALL MEET THE REQUIREMENTS OF THE APPLICABLE STANDARDS OF UL, ASTM, CISPI, ETC. AND SHALL BEAR THE LABEL AS EVIDENCE THAT THE MATERIAL AND/OR EQUIPMENT MEETS THIS REQUIREMENT.
G. CONFIRM ACTUAL VOLTAGES, PHASE AND CHARACTERISTICS OF EQUIPMENT, FIXTURES AND APPARATUS FURNISHED BY CONTRACTOR, TENANT, OTHER TRADES, DIVISIONS AND/OR EXISTING. CONFIRM PRIOR TO ROUGH-IN. IF DISCREPANCIES ARE NOTED TO THE INSTRUCTIONS OF THESE PLANS AND SPECIFICATIONS, SUBMIT THE NOTED DISCREPANCIES TO THE ARCHITECT/ENGINEER FOR DIRECTION PRIOR TO PROCEEDING.
H. INSTALL ALL EQUIPMENT PER MANUFACTURER'S INSTRUCTIONS, RECOMMENDATIONS AND DETAILS UNLESS OTHERWISE NOTED IN THESE PLANS. IF DISCREPANCIES EXIST CONTACT THE ARCHITECT/ENGINEER PRIOR TO ORDERING EQUIPMENT AND ROUGH-IN.
I. CONTRACTOR TO ENGAGE A FACTORY-AUTHORIZED SERVICE REPRESENTATIVE TO PERFORM STARTUP SERVICES ON ALL EQUIPMENT AND PROVIDE ALL NECESSARY ADJUSTMENTS FOR PROPER OPERATION.
J. SUBMIT MANUFACTURER'S LITERATURE (SHOP DRAWINGS) FOR MATERIALS AND EQUIPMENT. SUBMITTAL SHALL INCLUDE EQUIPMENT PERFORMANCE DATA AT ELEVATION AND/OR LOCAL CONDITIONS. EQUIPMENT CUTSHEETS OR CATALOG COPIES ARE NOT ACCEPTABLE. SUBMITTAL SHALL BEAR THE APPROVAL OF THE GENERAL CONTRACTOR FOR COMPLIANCE WITH COORDINATION AND THESE SPECIFICATIONS PRIOR TO SUBMITTAL TO ARCHITECT AND/OR THEIR AGENCIES. ANY SUBSTITUTED EQUIPMENT FROM SCHEDULED SHALL BE EQUAL TO THAT SCHEDULED IN CONTROLS, ACCESSORIES, AND PERFORMANCE REGARDLESS OF MANUFACTURER. CONTRACTOR SHALL BE RESPONSIBLE FOR ANY COSTS ASSOCIATED WITH THE SUBSTITUTED EQUIPMENT REALIZED BY OTHER CONTRACTORS OR THE DESIGN TEAM.
K. AT TIME OF BID THE CONTRACTORS SHALL ENSURE THE SITE TO BUILDING UTILITY CONNECTIONS ARE INCLUDED. CONTRACTORS TO COORDINATE INVERT AND SIZING OF ALL PLUMBING LEAVING OR ENTERING THE BUILDING. CONTRACTORS SHALL CONTACT DESIGN TEAM DURING THE BID PROCESS IF THERE IS A DISCREPANCY BETWEEN THE CIVIL DOCUMENTS AND THE PLUMBING DOCUMENTS. COORDINATE WITH SITE CONTRACTOR TO BRING ALL UNDERGROUND PLUMBING TO A MINIMUM OF 5' OFF OF BUILDING FOUNDATION UNLESS NOTED OTHERWISE.
L. IT IS THE CONTRACTOR'S RESPONSIBILITY TO PROVIDE ALL NEW EQUIPMENT, FIXTURES AND DEVICES IN A LIKE NEW STATE AT TIME OF PROJECT CLOSEOUT. PROTECT EQUIPMENT, FIXTURES AND DEVICES AS REQUIRED AGAINST PHYSICAL DAMAGE, DEBRIS, RAIN, SNOW, WIND, DIRT, SUN FADING, RUST, CORROSION OR ANY OTHER DEGRADATION. CONTRACTOR TO REPAIR OR REPLACE ANY EQUIPMENT OR DEVICES AS REQUIRED.

02. BASIC MATERIALS

- A. PROVIDE PLUMBING SYSTEM CONTROLS, CONTROLLERS, CONTROL TRANSFORMER, DISCONNECTS, STARTERS, CONTROL WIRING, ASSOCIATED CONTROL POWER WIRING, AND ALL WORK NECESSARY FOR A COMPLETE AND OPERATIONAL PLUMBING SYSTEM. CONTRACTOR IS REQUIRED TO COORDINATE WITH OTHER TRADES OR RETAIN SUB-CONTRACTORS AS REQUIRED TO PROVIDE A COMPLETE AND OPERATIONAL SYSTEM PRIOR TO BID.
B. PROVIDE SUPPLEMENTAL STEEL AND SUPPORTS AS REQUIRED FOR INSTALLATION OF PLUMBING MATERIALS, EQUIPMENT, AND APPARATUS.
PROVIDE VIBRATION ISOLATION AND FLEXIBLE CONNECTIONS ON ALL EQUIPMENT WITH ROTATING OR OSCILLATING COMPONENTS AND PUMPS OVER 1 HORSEPOWER.
C. ALL WORK IN FINISHED AREAS SHALL BE CONCEALED UNLESS SPECIFICALLY NOTED AS EXPOSED ON THE PLANS. PRIOR TO THE INSTALLATION OF ANY EXPOSED WORK THE CONTRACTOR SHALL VERIFY AND OBTAIN ARCHITECTURAL APPROVAL OF LOCATION, ELEVATION, EXTENT, MATERIAL, AND FINISH.
D. UNLESS NOTED ELSEWHERE ON PLAN, PROVIDE ASSE 1003 PRESSURE REDUCING VALVE ASSEMBLY AT BUILDING WATER SERVICE ENTRY. OUTLET PRESSURE TO BE SET TO MAINTAIN A MAXIMUM STATIC PRESSURE OF 80 PSI AT ANY FIXTURE.
E. PROVIDE DRAINAGE SYSTEM CLEANOUTS AS REQUIRED BY LOCAL CODES.
F. PROVIDE QUARTER TURN BRANCH AND ZONE SHUT-OFF VALVES ON ALL WATER LINES EXTENDING FROM MAINS.
G. THE CONTRACTOR SHALL LOCATE AND FURNISH FOR INSTALLATION BY OTHERS. ALL ACCESS PANELS AS REQUIRED FOR ACCESS TO VALVES, ACTUATORS, MOTORS, DEVICES, ETC AND THE PROPER SERVICING OF EQUIPMENT INSTALLED UNDER THIS CONTRACT. AT TIME OF BID THE CONTRACTOR AND GC SHALL COORDINATE TO ENSURE THAT ALL ACCESS PANELS (INCLUDING FIRE AND/OR SMOKE RATED MODELS) ARE INCLUDED.
H. PROVIDE SEISMIC AND/OR WIND LOADING SECUREMENT DETAILS AS REQUIRED BY THE LOCAL JURISDICTION. THE CONTRACTOR SHALL COORDINATE WITH THE EQUIPMENT SUPPLIER(S) TO OBTAIN THE DRAWINGS AND INSTALL THE SYSTEM AS REQUIRED BY THE MANUFACTURER. CONTRACTOR TO SELECT ATTACHMENT AND MOUNTING SYSTEM(S) BASED ON ATTACHING TO THE DESIGNED SUBSTRATE AND STRUCTURE WITHOUT REQUIRING ADDITIONAL REINFORCEMENT BY OTHERS. IF ANY SUBSTRATE AND/OR STRUCTURE IS REQUIRED FOR PROPER REINFORCEMENT, CONTRACTOR TO COORDINATE WITH GENERAL CONTRACTOR FOR ALL POTENTIAL REQUIREMENTS PRIOR TO BID.
I. FIRE STOP ALL PIPING AND WIRING MATERIALS PASSING THROUGH RATED STRUCTURES OR ASSEMBLIES USING U.L. LISTED PRODUCTS FOR ALL APPLICABLE PENETRATIONS IN ACCORDANCE WITH LOCAL CODE REQUIREMENTS.
J. FIELD LABEL ALL PLUMBING EQUIPMENT AND PIPING AS INDICATED ON THE PLANS PER PLUMBING AND LOCAL CODE REQUIREMENTS. INDICATE DIRECTION OF FLOW ON PIPING.
K. TAG ALL ZONE VALVES WITH CONSECUTIVE NUMBERING ON PERMANENT HARD PLASTIC OR METAL TAB AND PROVIDE SCHEDULE LISTING ITEMS, AREA SERVED, SIZE AND VALVE TYPE. SUBMIT FINAL VALVE SCHEDULE FOR REVIEW.
L. ALL PROVIDED MATERIALS LOCATED IN A RETURN AIR PLENUM SHALL HAVE A FLAME SPREAD OF 25 OR LESS AND A SMOKE DEVELOPED RATING OF 50 OR LESS AS DETERMINED BY AN INDEPENDENT TESTING LAB. CONTRACTOR SHALL COORDINATE AT TIME OF BID WITH OTHER TRADES.
M. UTILIZE AN INDEPENDENT BALANCER WITH NEBB AND/OR AABC CERTIFICATION. RECIRCULATING PLUMBING SYSTEM SHALL BE BALANCED TO 10% DISCREPANCY OF THE GPM INDICATED ON THE PLANS. IF THERE IS A DISCREPANCY GREATER THAN 10%, BALANCE CONTRACTOR SHALL CONTACT ENGINEER. A BALANCING METHOD MUST BE PROVIDED FOR ALL CIRCULATING SYSTEMS. PROVIDE A FINAL COPY OF THE BALANCE REPORT TO THE ENGINEER OF RECORD UPON COMPLETION OF THE PLUMBING SYSTEMS. RESIDENTIAL UNITS SHALL BE PROVIDED WITH A PROJECT SPECIFIC BALANCING PLAN AS REQUIRED BY THE RESPECTIVE ENERGY PROGRAM AND AHJ.

03. PIPING

- A. SANITARY, VENT, GREASE, SAND OIL, AND STORM PIPING ABOVE AND BELOW GRADE SOLID CORE (NO CELL CORE) PVC, SCHEDULE 40 PIPE (140F MAX) AND SHALL BE IRON PIPE SIZE (IPS) CONFORMING TO ASTM D 1784, ASTM D 1785 AND ASTM D 2865. INJECTION MOLED PVC DWV FITTINGS SHALL CONFORM TO ASTM D 2865. FABRICATED PVC DWV FITTINGS SHALL CONFORM TO ASTM F 1866. PIPE AND FITTINGS SHALL BE MANUFACTURED AS A SYSTEM AND BE THE PRODUCT OF ONE MANUFACTURER. ALL PIPE AND FITTINGS SHALL BE MANUFACTURED IN THE UNITED STATES. ALL SYSTEMS SHALL UTILIZE A SEPARATE WASTE AND VENT SYSTEM. PIPE AND FITTINGS SHALL CONFORM TO NSF INTERNATIONAL STANDARD 14. INSTALLATION SHALL COMPLY WITH THE LATEST INSTALLATION INSTRUCTIONS PUBLISHED BY MANUFACTURER AND SHALL CONFORM TO ALL APPLICABLE PLUMBING, BUILDING, AND FIRE CODE REQUIREMENTS. BURIED PIPE SHALL BE INSTALLED IN ACCORDANCE WITH ASTM D 2321 AND ASTM F 1668. SOLVENT CEMENT JOINTS SHALL BE MADE IN A TWO STEP PROCESS WITH COLORED PRIMER CONFORMING TO ASTM F 656 AND SOLVENT CEMENT CONFORMING TO ASTM D 2564. THE SYSTEM SHALL BE PROTECTED FROM CHEMICAL AGENTS, FIRE STOPPING MATERIALS, THREAD SEALANT, PLASTICIZED VINYL PRODUCTS, OR OTHER AGGRESSIVE CHEMICAL AGENTS NOT COMPATIBLE WITH PVC COMPOUNDS. SYSTEMS SHALL BE HYDROSTATICALLY TESTED AFTER INSTALLATION.
B. DOMESTIC WATER PIPING (WATER ENTRY, MECH ROOMS) ABOVE/BELOW GRADE: ABOVE GRADE COPPER SHALL BE ASTM B 88, TYPE L COPPER WITH WROUGHT OR FORGED FITTINGS AND LEAD FREE SOLDERED OR MECHANICALLY PRESSED-CONNECTED JOINT PRO PRESS OR EQUAL.
C. DOMESTIC WATER PIPING (MANS, DISTRIBUTION) ABOVE/BELOW GRADE: SOLVENT SOCKET WELDED CPVC PIPE MEETING ASTM D2846 W/ CELL CLASS 2448 PER ASTM D1784 FOR FLOWGUARD GOLD ORS (1/2" THRU 1" FOR UTILIZING A 1/2" STEP) CONFORMING TO ASTM F 483. IF THE AIR REQUIRES PRIMER, THEN A PRIMER CONFORMING TO ASTM F566 SHOULD BE USED. CONTRACTOR SHALL HAVE ALL INSTALLERS BE BONDED QUALIFIED TO ASME B 31.3. CORZAN CPVC SCHEDULE 80 PIPE W/ CELL CLASS 2448 UP TO 6" AND 23447 8" AND G. ALL PRIMERS AND CEMENTS SHALL BE LISTED WITH NSF FOR POTABLE WATER.
a. REVIEW ALL ANCILLARY PRODUCT (CAULK, FIRE SEALANT, COATED HANGERS, ETC...) WITH THE LUBRIZOL SYSTEM COMPATIBLE PROGRAM AND/OR RECEIVE WRITTEN DOCUMENTATION FROM ANCILLARY PRODUCT MANUFACTURER SHOWING 'COMPATIBILITY' WITH CPVC.
b. CONTRACTOR SHALL SUBMIT PROOF OF TRAINING BY CPVC MANUFACTURER WITHIN LAST 2-YEARS OF START OF THIS PROJECT FOR 'RECOMMENDED INSTALLATION PRACTICES'.

- A. CONDENSATE DRAIN PIPING SHALL BE TYPE M COPPER WITH SOLDERED JOINTS, OR CPVC IF ALLOWED BY LOCAL AUTHORITY HAVING JURISDICTION.
B. GAS PIPING USED FOR THE INSTALLATION, EXTENSION, ALTERATION, AND/OR REPAIR OF ANY GAS PIPING SYSTEM SHALL BE BLACK STEEL PIPE ASTM A53 ERW (TYPE E) GRADE B, OR FURNACE-WELDED (TYPE F) GRADE A, STANDARD WALL, SCHEDULE 40. ALL A53 PIPING SHALL BE THIRD PARTY TESTED TO MEET THE CODE AND EACH LENGTH SHALL BE STENCILED WITH MFG., LENGTH, ASTM 53 & PIPE TYPE.
C. GAS PIPING 3 INCHES AND LARGER SHALL BE SCHEDULE 40 STEEL WITH WELDED JOINTS. GAS PIPING 2-1/2 INCHES AND SMALLER SHALL BE SCHEDULE 40 STEEL, MALLEABLE THREADED FITTINGS OR MECHANICALLY PRESS-CONNECTED (MEGA PRESS) MEETING ASTM A53.
D. GAS PIPING BELOW GRADE SHALL BE SCHEDULE 40 STEEL, AND WRAPPED WITH PROTECTIVE PIPE COVERING AND VENTED IN ACCORDANCE WITH LOCAL JURISDICTIONS HAVING AUTHORITY.
E. SEMI RIGID FLEXIBLE GAS PIPING BY TRACPIPE MAY BE USED IF APPROVED BY LOCAL JURISDICTIONS. SYSTEM RESIZING FOR CSST SUBSTITUTIONS IS THE PC'S RESPONSIBILITY.
F. PROVIDE EXPANSION LOOPS, SWING JOINTS, OR MECHANICAL EXPANSION COMPENSATING DEVICES AS REQUIRED TO ACCOUNT FOR THERMAL EXPANSION OF ALL PIPING SYSTEMS. EXPANSION SYSTEM SIZING SHALL BE IN ACCORDANCE WITH MATERIALS DATA SHEETS AND MANUFACTURER RECOMMENDATIONS.
G. ANY PIPING SYSTEM LOCATED IN A RETURN AIR PLENUM SHALL BE NONCOMBUSTIBLE OR SHALL HAVE A FLAME SPREAD INDEX OF NO MORE THAN 25 AND A SMOKE-DEVELOPED INDEX OF NOT MORE THAN 50 WHEN TESTED IN ACCORDANCE WITH ASTM E 84.
H. FIRE STOP ALL PIPING MATERIALS PASSING THROUGH FIRE RATED STRUCTURES OR FIRE RATED ASSEMBLIES IN ACCORDANCE WITH THE REQUIREMENTS OF AUTHORITIES HAVING JURISDICTION. USE CURRENTLY LISTED U.L. CLASSIFIED PRODUCTS, TESTED BY ASTM E814. USE FOR ALL APPLICABLE PIPE PENETRATIONS THROUGH FIRE RATED FLOORS, WALLS, OR FLOOR CEILING ASSEMBLIES IN ACCORDANCE WITH LOCAL CODE REQUIREMENTS.

04. INSULATION

- A. PIPING INSULATION TO BE INSTALLED AS PER BELOW. WHEN CONFLICTING INSULATION REQUIREMENTS ARE LISTED, THE MORE STRINGENT SHALL BE USED.
B. INSULATION SHALL BE INSTALLED PER IECC SECTION & TABLE C403 MINIMUM PIPE INSULATION THICKNESS AND TABLE C404 PIPING VOLUME AND MAXIMUM PIPING LENGTHS. HOT & RETURN WATER PIPING (105'-140') 1-1/4" AND SMALLER SHALL HAVE 1" FIBER GLASS INSULATION WITH AN ALL-SERVICE JACKET, 1-1/2" AND LARGER SHALL HAVE 1-1/2" FIBER GLASS INSULATION WITH AN ALL-SERVICE JACKET (K-VALUE OF 0.21-0.28). 141'-200' 1 1/4" AND SMALLER SHALL HAVE 1 1/2" FIBER GLASS INSULATION WITH AN ALL-SERVICE JACKET, 1-1/2" AND LARGER SHALL HAVE 2" FIBER GLASS INSULATION WITH AN ALL-SERVICE JACKET (K-VALUES OF 0.25-0.29). EXCEPTION: PIPING SURROUNDED BY BUILDING INSULATION WITH A THERMAL RESISTANCE OF NOT LESS THAN R-3.
C. DOMESTIC COLD & HOT WATER PIPING EXPOSED TO OUTDOOR TYPE AMBIENT CONDITIONS INCLUDING ATTICS, COVERED PARKING AND CRAWL SPACES SHALL BE INSULATED WITH MINIMUM 2-INCH FIBERGLASS INSULATION.
D. SANITARY, DOMESTIC COLD, AND HOT WATER PIPING IN AN EXTERIOR WALL, CEILING, OR FLOOR THAT IS ADJACENT TO AN UNCONDITIONED SPACE SHALL BE INSTALLED TO THE WARM SIDE OF THE BUILDING INSULATION
E. IN COLD ENVIRONMENTS (99% WINTER DESIGN DB <34F):
1. HORIZONTAL SANITARY AND STORM PIPING EXPOSED TO OUTDOOR TYPE AMBIENT CONDITIONS INCLUDING COVERED PARKING AND CRAWL SPACES SHALL BE HEAT-TRACED AND INSULATED WITH 1-INCH FIBERGLASS INSULATION.
2. VERTICAL SANITARY AND STORM PIPING EXPOSED TO OUTDOOR TYPE AMBIENT CONDITIONS INCLUDING EXTERIOR WALLS, COVERED PARKING AND CRAWL SPACES SHALL BE INSULATED WITH 1-INCH FIBERGLASS INSULATION.
3. DOMESTIC COLD & HOT WATER PIPING EXPOSED TO OUTDOOR TYPE AMBIENT CONDITIONS INCLUDING ATTICS, COVERED PARKING AND CRAWL SPACES SHALL BE HEAT-TRACED AND INSULATED WITH MINIMUM 2-INCH FIBERGLASS INSULATION.
4. PROVIDE MINIMUM 1-INCH THICK INSULATION ON DOMESTIC WATER LINES IN AN EXTERIOR WALL, CEILING, OR FLOOR THAT IS ADJACENT TO AN UNCONDITIONED SPACE.

05. PLUMBING FIXTURE

- A. FURNISH AND INSTALL PLUMBING FIXTURES AS SCHEDULED ON THE PLANS.
B. PROVIDE CHROME PLATED ANGLE STOPS AND ESCUTCHEON PLATES ON ALL EXPOSED FIXTURE RUNOUTS
C. PROVIDE INSULATION AND ROUGH IN AS REQUIRED FOR COMPLIANCE WITH ADA REQUIREMENTS.
D. PROVIDE ALL ACCESSORIES AND SPECIALTY ITEMS AS REQUIRED FOR A COMPLETE FIXTURE INSTALLATION.

06. REDUCED PRESSURE BACKFLOW PREVENTER

- A. FURNISH AND INSTALL REDUCED PRESSURE BACKFLOW PREVENTER FOR THE PRIMARY DOMESTIC COLD WATER SERVICE IN ACCORDANCE WITH STATE, LOCAL, AND JURISDICTIONAL WATER DISTRICT REQUIREMENTS.
B. FURNISH AND INSTALL REDUCED PRESSURE BACKFLOW PREVENTER FOR MECHANICAL EQUIPMENT REQUIRED OF THIS OR OTHER SECTIONS OF THESE SPECIFICATIONS.

07. NATURAL GAS FIRED WATER HEATERS

- A. SPECIAL ATTENTION MUST BE PAID TO GAS FIRED EQUIPMENT FLUE/COMBUSTION AIR LENGTHS, SIZES, AND MATERIAL.
b. FURNISH AND INSTALL NATURAL GAS FIRED, GLASS LINED WATER HEATERS AS SCHEDULED ON THE PLANS.
a. WATER HEATERS SHALL BE COMPLETE, SHALL BE AGA LABELED, AND MEET THE REQUIREMENTS OF LOCAL MUNICIPALITIES.
b. MINIMUM 2FT OF DOMESTIC WATER PIPE SHALL BE COPPER OFF ALL WATER CONNECTIONS TO WATER HEATER. REFER TO SHEET SPEC SECTION 3 PIPING TO VERIFY MATERIALS ACCEPTABLE IN MECHANICAL/WATER ENTRY ROOM.

08. CIRCULATING PUMP

- A. FURNISH AND INSTALL A NSF RATED DOMESTIC HOT WATER RETURN CIRCULATOR AS SCHEDULED ON THE PLANS. PROVIDE RETURN LINE AQUASTAT AND WIRE COMPLETE TO CYCLE CIRCULATOR TO PROVIDE 120 OR 140 DEGREES RETURN WATER TEMPERATURE (ADJUSTABLE).

PLUMBING LEGEND table with columns for symbols and descriptions. Includes items like BC (BICARB), CT (CONCENTRATE), CND (CONDENSATE), DCW (DOMESTIC COLD WATER), etc.

Table with columns for VALVES and FIXTURES. Includes symbols for BALL VALVE, GATE VALVE, GLOBE VALVE, CHECK VALVE, PRESSURE REDUCING VALVE (PRV), MEASURE FLOW, TEE UP, TEE DOWN, ELBOW UP, ELBOW DOWN, WALL CLEAN OUT, FLOOR CLEANOUT, AREA DRAIN, FLOOR DRAIN, FLOOR SINK FULL COVER, FLOOR SINK 3/4 COVER, FLOOR SINK 1/2 COVER, GAS METER, HOSE BIB, BATH TUB/SHOWERMOP SINK, SINK/LAV, 2-COMPARTMENT SINK, DRINKING FOUNTAIN/URINAL, WASHER BOX, ICE BOX, WATER CLOSET STACK, WATER CLOSET.

GENERAL NOTES:

- 1. ALL ITEMS CONNECTING TO POTABLE WATER SHALL MEET THE LEAD FREE STANDARD OF 25% OR LESS LEAD.
2. PLUMBING PLANS REFERENCE FINISHED FLOOR TO FINISHED FLOOR ABOVE. SANITARY SHOWN IS FOR FIXTURES ABOVE UNLESS NOTED OTHERWISE.
3. FIELD VERIFY ALL ROUTINGS OF PLUMBING LINES WITH OTHER TRADES. FIELD ADJUST ROUTING ACCORDINGLY TO MAKE SYSTEM WORK WITH OTHER TRADES.
4. PROVIDE ASSE 1070 MIXING VALVE AT ALL PUBLIC FIXTURES AS REQUIRED PER LOCAL CODE.
5. PC TO PROVIDE VACUUM BREAKERS AT LOCATIONS WHERE HOSES AND NOZZLES ARE USE. I.E. JANITOR SINKS, BEAUTY SINKS, KITCHEN SPRAYERS, DISHWASHERS, AND BATHS. INSTALL CHECK VALVES ON BOTH COLD AND HOT WATER LINES TO FIXTURE.
6. ALL DRAINAGE LINES 2-1/2" AND UNDER TO BE SLOPED AT 1/4" PER FOOT, 3'-6" TO BE SLOPED AT 1/8" PER FOOT, AND 8" AND OVER TO BE SLOPED AT 1/16" PER FOOT UNLESS NOTED OTHERWISE. GREASE WASTE SHALL BE SLOPED AT 1/4" ONLY PER CODE.
7. START TRENCHING FOR NEW SANITARY LINE AT FURTHEST FIXTURE (HIGHEST POINT IN SYSTEM) FROM CIVIL CONNECTION POINT TO BUILDING.
8. FIELD ROUTE ALL CONDENSATE LINES, T&P VALVES, AND DRAIN VALVES FROM MECHANICAL AND PLUMBING EQUIPMENT TO SANITARY SEWER RECEPTOR OR STORM/GRADE PER LOCAL CODE AND JURISDICTION.
9. REFER TO ARCHITECTURAL DRAWINGS FOR FINAL HEIGHTS AND/OR LOCATIONS OF SHOWER FIXTURES.
10. WATER CLOSETS ON BEAMS OR COLUMNS TO BE OFFSET 18" OFF FINISHED WALL.
11. PEX PIPING IS AN APPROVED PIPING MATERIAL FOR DISTRIBUTION TO ALL FIXTURES OFF WATER MAINS.
12. DO NOT SECURE ANY PIPING TO EXPANSION JOINT WALLS.
13. ENSURE THAT THE DOMESTIC HOT WATER PIPING AND COIL SERVING THE POOL AIR HANDLER REHEAT ARE OPEN DURING PIPING SYSTEM CHLORINATION BY KILLING THE POWER TO THE VALVE DURING THE FLUSHING (IT WILL SPRING OPEN).
14. MC TO FURNISH AND INSTALL REFRIGERANT LINES BETWEEN ICE MACHINES AND THEIR RESPECTIVE REMOTE CONDENSING UNITS.

CODE & DESIGN CRITERIA table with rows for JURISDICTION, PLUMBING CODE(S), LOCAL ADDENDUMS, WATER PRESSURE, GAS PRESSURE, PEAK RAINFALL RATE, S-OJ DISCHARGE TO, ELEVATOR PUMP REQUIRED, CONDENSATE DISCHARGE, FULLY SPRINKLERED, NUMBER OF FLOORS.

PLUMBING SHEET LIST table with columns for NUMBER and TITLE. Includes rows for P0.1 PLUMBING SPEC'S & LEGENDS, P0.2 PLUMBING SCHEDULES, P1.1 FLOOR PLANS - PLUMBING DEMO, P2.0 UNDERGROUND FLOOR PLAN - PLUMBING, P2.1 FLOOR PLANS - PLUMBING, P5.1 PLUMBING ISOMETRICS, P5.2 PLUMBING DIAGRAMS.

ABBREVIATIONS table with columns for symbol and description. Includes items like (D) DEMO, (E) EXISTING, (F) FUTURE, (N) NEW, AAV AIR ADMITTANCE VALVE, AD AREA DRAIN, AFF ABOVE FINISH FLOOR, AHU AIR HANDLING UNIT, B BOLLER, BB BASEBOARD, BF BOOSTER FAN, BFP BACKFLOW PREVENTER, BT BATH TUB, BV BALL VALVE, CD CONDENSATE DRAIN, CFM CUBIC FEET PER MINUTE, CH CHILLER, CS CLINICAL SINK, CU CONDENSING UNIT, CV CHECK VALVE, CWH CABINET UNIT HEATER, DWH DOMESTIC COLD WATER, DFH DRINKING FOUNTAIN, DHW DOMESTIC HOT WATER, DSN DOWN SPOUT NOZZLE, EV EVAPORATIVE COOLER, EC ELECTRICAL CONTRACTOR, ECO END OF LINE CLEANOUT, EDH ELECTRIC DUCT HEATER, EF EXHAUST FAN, ERU ENERGY RECOVERY UNIT, ER EXISTING REMOVED, ERR EXISTING REMOVED & RELOCATED, EY EMERGENCY EYEWASH, EWC ELECTRIC WATER COOLER, EWH ELECTRIC WATER HEATER, F FURNACE, FLOOR/GRADE CLEANOUT, FCU FAN COIL UNIT, FD FLOOR DRAIN, FS FLOOR SINK, G GAS, GC GENERAL CONTRACTOR, GM GAS METER, GPH GALLONS PER HOUR, GPM GALLONS PER MINUTE, GR GAS REGULATOR, GUH GAS UNIT HEATER, GW GREASE WASTE, GWH GAS WATER HEATER, HB HOSE BIB, HP HEAT PUMP, HX HEAT EXCHANGER, IM ICE MAKER BOX, LAV LAVATORY, LS LAUNDRY SINK, MAU MAKE-UP AIR UNIT, MC MECHANICAL CONTRACTOR, MF MEASURE FLOW, NIC NOT IN CONTRACT, NC NORMALLY CLOSED, NO NOT TO SCALE, NTS NOT TO SCALE, OA OUTSIDE AIR, ORD OVER FLOW ROOF DRAIN, P PUMP, PC PLUMBING CONTRACTOR, PFF PARALLEL FAN TERMINAL, PRV PRESSURE REDUCING VALVE, PSI POUNDS PER SQUARE INCH, PSIG PRESSURE GAUGE, PV PLUG VALVE, RA RETURN AIR, RAR RETURN AIR REGISTER, RD ROOF DRAIN, RE RELOCATE EXISTING, RH RADIANT HEATER, RTU ROOF TOP UNIT, RVM RADON/VAPOR MITIGATION, SA SUPPLY AIR, SAR SUPPLY AIR REGISTER, SF SUPPLY FAN, SFT SERIES FAN TERMINAL, SH SHOWER, SK SINK, SAND/OIL INTERCEPTOR, SOI SERVICE SINK, SS SERVICE SINK, T&P TEMPERATURE & PRESSURE, TD TRENCH DRAIN, TYP TYPICAL, UR URINAL, VAV VARIABLE AIR VOLUME, VVT VARI TRAC, WB WASHER BOX, WC WATER CLOSET/WATER COLUMN, WCO WALL CLEANOUT COLUMN, WH WALL HYDRANT.

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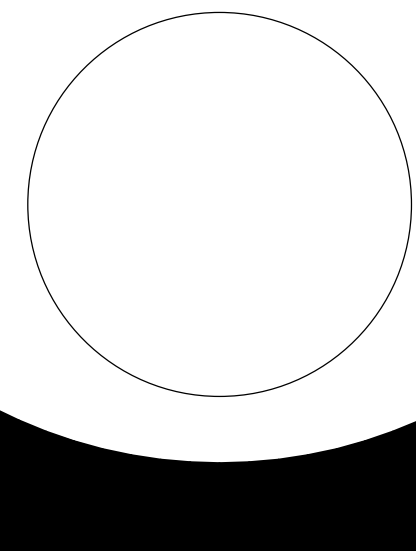
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REVISION NAME DATE table with columns for revision name and date.

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PLUMBING SPECS & LEGENDS

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P0.1

PLUMBING FIXTURES

NOTES:

1. ALL PUBLIC SINKS TO HAVE OPEN GRID STRAINERS.
2. ALL NON-PUBLIC SINKS TO HAVE POP-UP STRAINERS.
3. ALL FIXTURES TO BE PROVIDED W/ FLEXIBLE WATER LINES, ANGLE STOPS (INCLUDING DISHWASHER CONNECTIONS), TRAP WRAP, ESCUTCHEON PLATES AS REQUIRED PER FIXTURE INSTALL AND CODE.
4. ALL INSTALLATIONS SHALL COMPLY WITH MANUFACTURER'S INSTRUCTIONS, AND STATE AND LOCAL CODES.
5. PROVIDE BACKFLOW PROTECTION ON FIXTURES AS REQUIRED PER LOCAL CODE.
6. TRIP LEVERS SHALL BE TO WIDE/OPEN SIDE OF TOILET.
7. GOOSE NECK FAUCETS TO BE PROVIDED WITH SPOUT SWIVEL RESTRICTION SETTING OR SHALL BE SET STATIONARY WITHOUT SWIVEL.
8. PROVIDE TRIM KIT ON OPEN SHOWER FLANGE OR EXTEND FINISHING DRYWALL OVER FLANGE AS REQUIRED AT RATED WALLS.

ALTERNATE MFG'S: ACORN, AMERICAN STANDARD, CRANE, DELTA, ELKAY, HAVIS, HALSEY TAYLOR, J.R. SMITH, KOHLER, LASCO, MOEN, SIOUX CHIEF, STING RAY, SYMMONS, TOTO, WADE, ZURN.

PLAN MARK	ADA	DESCRIPTION	CONNECTIONS				MANUFACTURER	MODEL NAME	MODEL #	FLOW RATE	DIMENSIONS	FIXTURE			FINISH	MISC	REMARKS
			DCW	DHW	WASTE	VENT						MOUNTING	RIM HEIGHT				
BF-1	YES	BOTTLE FILLER	1/2"		2"	2"	ELKAY	EZH2O	LZ8VSSSMC		17-7/8"x11-7/8"x41-1/4"	WALL		STAINLESS STEEL	INFRARED SENSOR, 120/60/1 POWER, 8 GPH		
		WALL HANGER					ZURN	Z1225				FLOOR		DURA-COATED STEEL	TOP & BOTTOM ADJUSTABLE SUPPORT PLATES		
FD-1	NO	FLOOR DRAIN			2"	2"	ZURN		ZN415B-VP		5" DIA STRAINER	FLOOR		NICKEL-BRONZE	VANDAL PROOF TOP, TRAP GUARD		
FS-1	NO	FLOOR ISINK			4"	2"	ZURN		ZN1901-2-VP		12"x12"x11-1/8"	FLOOR		NICKEL-BRONZE	VANDAL PROOF STRAINER, 1/2 GRATE, TRAP GUARD		
FS-2	NO	FLOOR SINK			2"	2"	ZURN										
LAV-1	YES	WALL HUNG LAVATORY			2"	2"	AMERICAN STD	DECLYN	0321.075		18-1/2"x17"x7-3/4", 14-1/4"x10-3/4"x6" BOWL	WALL		WHITE VITREOUS CHINA	SINGLE HOLE, REAR OVERFLOW, FAUCET LEDGE		
		FAUCET	1/2"	1/2"			AMERICAN STD	NEXTGEN SELECTRONIC	775B105	0.5 GPM	6-7/8" SPOUT	DECK		POLISHED CHROME	BATTERY POWERED, SENSOR OPERATED FAUCET		
		WALL HANGER					ZURN		Z1231			FLOOR		DURA-COATED STEEL	ADJUSTABLE SUPPORT PLATE, CONCEALED ARMS		
SH-1	YES	SHOWER			2"	2"	COMFORT DESIGNS		SST6333 BF .75		63"x33"x78-3/4"	FLOOR		WHITE FIBERGLASS	STAINLESS STEEL GRAB BARS, FOLD UP SEAT		
		SHOWER TRIM	1/2"	1/2"			DELTA	TECK COMMERCIAL	T13H332	1.5 GPM		WALL		POLISHED CHROME	SHOWER, HANDSHOWER, DIVERTER VALVES, 24" SLIDE BAR		
		SHOWER VALVE					DELTA	TECK COMMERCIAL	R10700-UNWS			WALL		ROUGH BRASS	1/2" UNIVERSAL INLETS, 1/2" THREADED OUTLETS, PRESSURE BALANCED		
SK-1	YES	BREAK ROOM SINK			2"	2"	ELKAY	LUSTERTONE CLASSIC	LRAD332255		33"x22"x5-1/2", (2)13-1/2"x16"x5-1/8" BOWLS	DROP-IN		STAINLESS STEEL	REAR CENTER DRAIN, SINGLE FAUCET HOLES		
		SINK FAUCET	1/2"	1/2"			ELKAY	GOURMET	LKGT1041	1.75 GPM	10-1/8" SPOUT	DECK		POLISHED CHROME	PULL-OUT SPRAY, SINGLE LEVER HANDLE		
		GARBAGE DISPOSAL					INSINKERATOR		BADGER 5		6-5/16" DIA x 1-1/2"	FLANGE		CONDOR GREY	1/2 HP, 120V/1 PHASE POWER, 6.3 AMPS, POWER CORD		
SK-2		UTILITY SINK			2"	2"	FIAT		DL-1		22-1/8"x17"x12-3/8" BOWL	DROP-IN		WHITE MOLDED PLASTIC	SELF-RIMMING FLANGE, LOCKING CORNER BARS		
		SINK FAUCET	1/2"	1/2"			FIAT		A1000		6-3/4" SWING SPOUT	DECK		POLISHED CHROME	4" CENTERSET, 4" WRIST BLADE HANDLES, HOSE ADAPTOR		
WB-1	NO	WASHER WALL BOX	1/2"	1/2"	3"	2"	SIOUX CHIEF	OX BOX	696-2313MF		11-1/2"x7-1/4"x3-1/2"	WALL		WHITE ABS	1/4" TURN VALVES, STAINLESS STEEL ARRESTERS		
WC-1	YES	WATER CLOSET	1/2"		3"	2"	AMERICAN STD	CADET 3	Z70AA.101	1.28 GPF	12" ROUGH-IN, 30-1/4"x17-3/8"x30"-1/4"	FLOOR	16-1/2"	WHITE VITREOUS CHINA	3" FLUSH VALVE		
		SEAT					AMERICAN STD		9901.100			BOWL		WHITE PLASTIC	OPEN FRONT SEAT LESS COVER		

GAS WATER HEATER SCHEDULE

REMARKS:

- (1) PROVIDE LIMITED 6-YEAR TANK & PARTS WARRANTY, HARD WATER/SCALE OR RUST IN SYSTEM SHALL NOT VOID WARRANTY.
- (2) 1ST YR SHALL COVER ANY FREIGHT, PARTS, DIAGNOSTICS, AND LABOR WITH ANY WATER HEATER ISSUES, PROVIDED BY MANUFACTURER.
- (3) STARTUPS TO BE PERFORMED BY FACTORY AUTHORISED REPRESENTATIVE.
- (4) CPVC (NO PVC) CA/FLUE LENGTH 125' MAX EACH (DEVELOPED LENGTH), PROVIDE COMBUSTION AIR FILTER. USE LONG RADIUS ELBOWS FOR BENDS.
- (5) PROVIDE CONDENSATE NEUTRALIZATION KIT.
- (6) SET WATER HEATER TO MAINTAIN SET POINT OF 130F (ADJUSTABLE).
- (7) PROVIDE 2 1/2" DRAIN PAN AND ROUTE 1 1/4" DRAIN LINE TO FLOOR SINK.
- (8) PROVIDE WEEKLEY 2 HOUR SCHEDULED SHOCK CYCLE AS DICTATED BY MANUFACTURER TO ASSURE LEGONELLA CONTROL.

PLAN MARK	MANUFACTURER	MODEL #	TANK GALLONS	THERMAL EFFICIENCY	ENERGY FACTOR	ALTITUDE (FEET)	FUEL	INPUT MBH	GPH RECOVERY	CA & FLUE SIZE (IN)	RISE (F)	ELECTRICAL DATA		REMARKS
												VOLT	PHASE	
GWH-1	AO SMITH	GPDX 50L-200	50	92%	0.73	5300	NAT GAS	62.0	73	3"	90	120 V	1	1,2,3,4,5,6,7,8

PLUMBING PUMP SCHEDULE

REMARKS:

- (1) CANNED ROTOR PUMP, CERAMIC SHAFT & RADIAL BEARINGS, CARBON AXIAL BEARING, STAINLESS STEEL ROTOR CANM BEARING PLATE & PUMP HOUSING.
- (2) 3-SPEED PUMP, SPEED SETTING 2, INTERLOCK WITH AQUASTAT SET TO MAINTAIN 120F ADJ., INTERLOCK WITH TIME CLOCK TO OPERATE DURING BUILDING OPERATIONAL HOURS.
- (3) PROVIDE ALL VALVES REQUIRED PER LOCAL CODE ON DISCHARGE PIPE.

PLAN MARK	MANUFACTURER	MODEL #	GPM	HEAD (FT)	RPM	ELECTRICAL DATA				REMARKS
						VOLT	PHASE	HP	WATTS	
CP-1	GRUNDFOS	UPS 15-35 SFC	2	6	1750	120	1		84	

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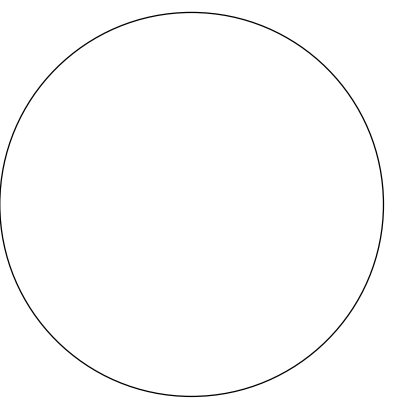
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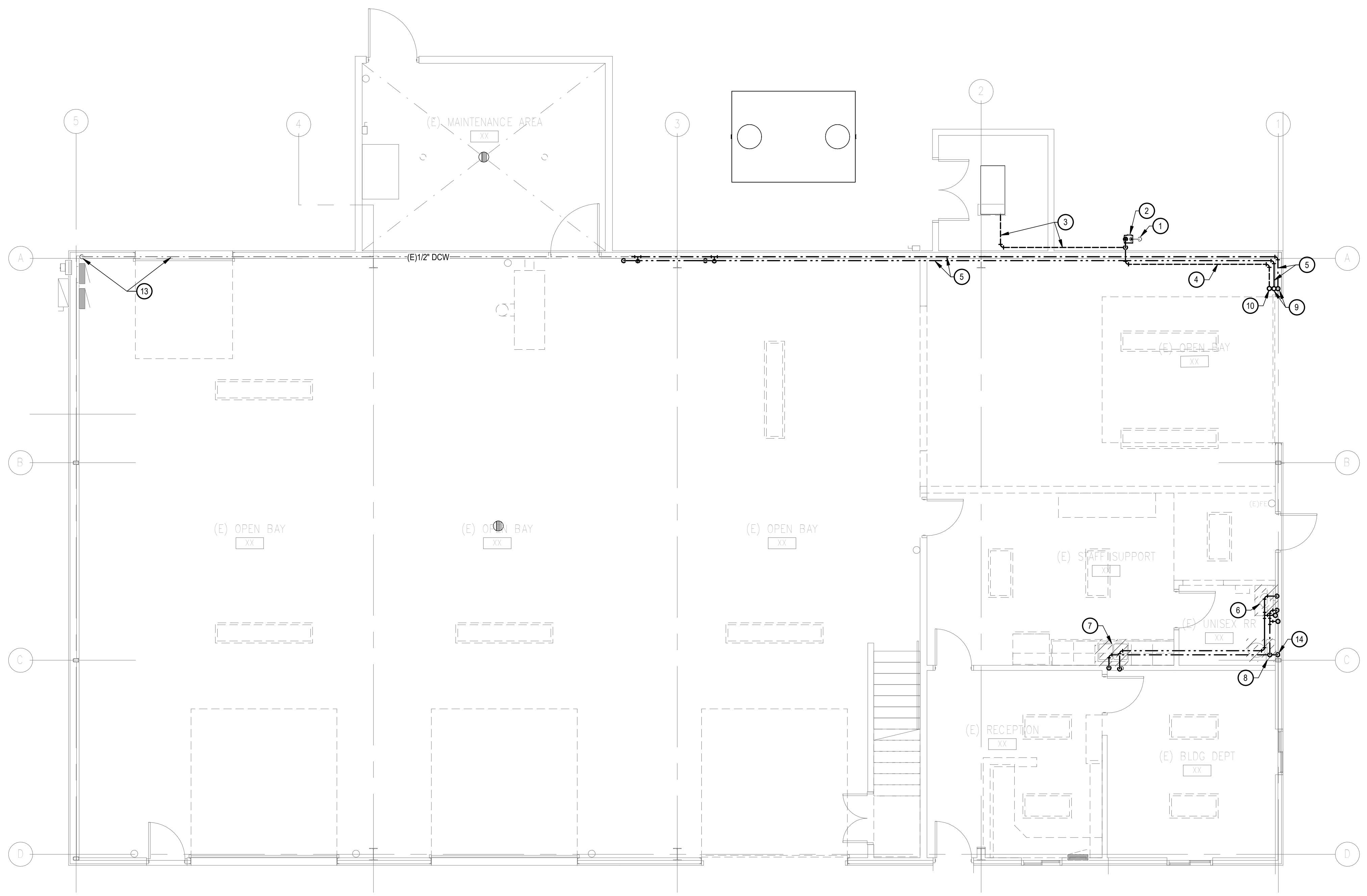
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PLUMBING SCHEDULES

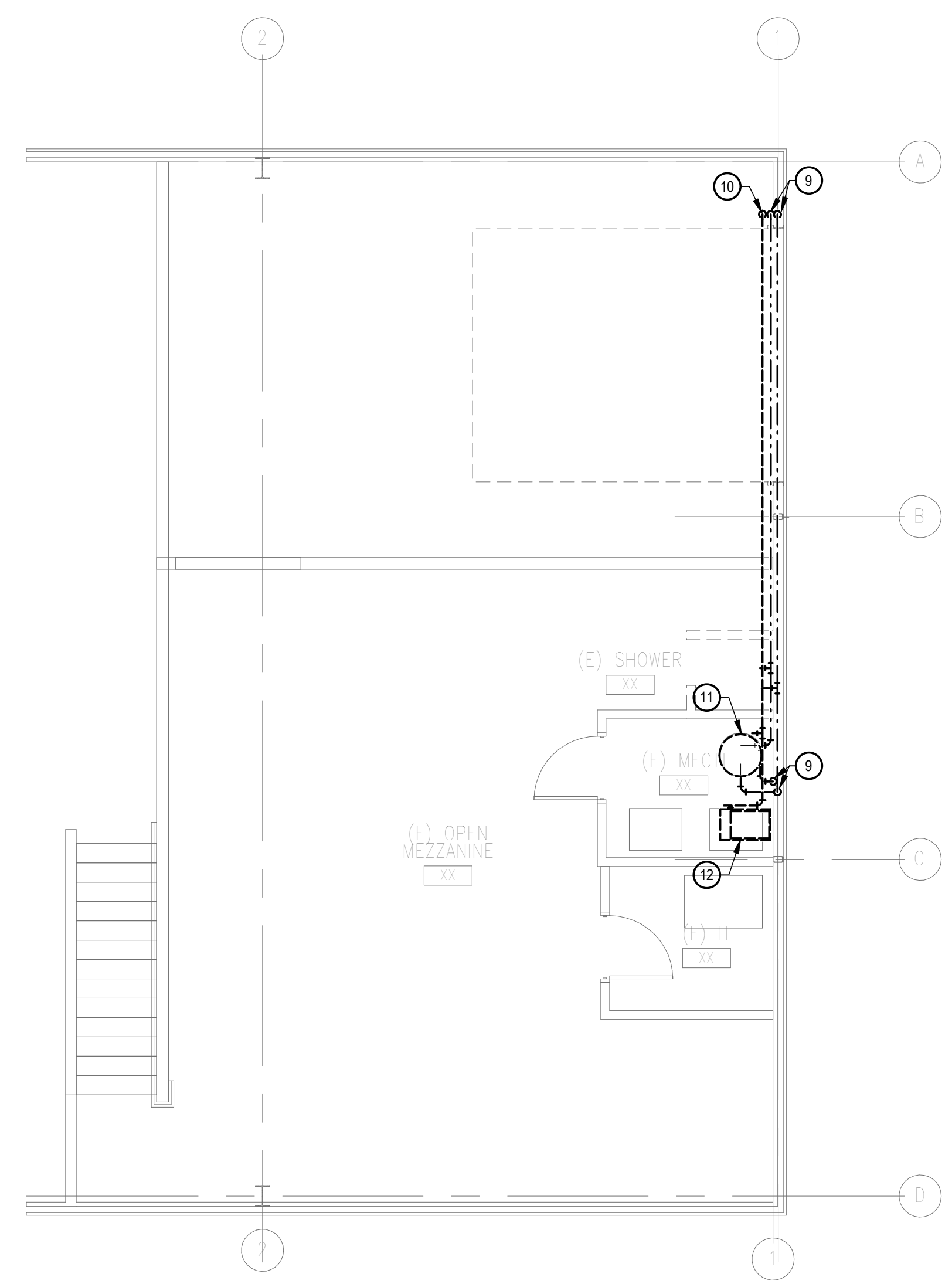
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- DRAWING NOTES:**
1. PLUMBING PLANS ARE BASED ON LIMITED FIELD SURVEY CONDUCTED ON 5/17/2023. PC SHALL FIELD VERIFY ALL EXISTING CONDITIONS ON WHICH NEW WORK IS DEPENDENT INCLUDING PIPE SIZE, MATERIAL, LOCATION & ELEVATION/INVERT PRIOR TO STARTING WORK.
 2. ROOF DRAINAGE BY ARCHITECTURAL GUTTERS & DOWNSPOUTS. SEE ARCHITECTURAL PLANS FOR ADDITIONAL INFORMATION.
 3. ALL SANITARY SEWER PIPING TO BE SLOPED TO COMPLY WITH IPC TABLE 704.1.
 4. NATURAL GAS PIPE SIZING IS BASED ON LONGEST LENGTH METHOD, 2018 IFGC TABLE 402.4(2), 6" WC OUTLET PRESSURE, 0.5" WC PRESSURE DROP, 250' TOTAL EQUIVALENT LENGTH OF PIPING.
 5. (E)AIR COMPRESSOR & ASSOCIATED PIPES, BRANCHES & AIR CONNECTIONS SHALL REMAIN WITHIN GARAGE AREA. P.C. SHALL REMOVE (E)COMPRESSED AIR PIPING WITHIN NEW OFFICE AREA. CAP & SEAL PIPING AIRTIGHT AT DEMISING WALL.

- KEY NOTES:**
- 1 (E)NATURAL GAS SERVICE BY XCEL ENERGY SHALL REMAIN.
 - 2 (E)GAS METER BY XCEL ENERGY SHALL REMAIN. SEE NEW WORK PLAN FOR ADDITIONAL INFORMATION.
 - 3 REMOVE (E)NATURAL GAS PIPING ON WALL/GRADE TO (E)PRESSURE WASHER. SEE NEW WORK PLAN FOR PIPE REINSTALLATION.
 - 4 REMOVE (E)NATURAL GAS PIPING ON WALL ABOVE CEILING LEVEL.
 - 5 REMOVE (E)DOMESTIC WATER PIPING ON WALL ABOVE CEILING LEVEL & ALL ASSOCIATED DROPS/BRANCHES TO POINTS SHOWN.
 - 6 REMOVE (E)LAVATORY & ALL ASSOCIATED DOMESTIC WATER, WASTE & VENT PIPING IN WALL/ BELOW SLAB.
 - 7 REMOVE (E)SINK & ASSOCIATED DOMESTIC WATER BRANCH PIPING ABOVE CEILING IN WALL. TEMPORARY CAP (E)WASTE & VENT ROUGH INS IN PREPARATION FOR NEW WORK.
 - 8 REMOVE (E)WATER CLOSET & ALL ASSOCIATED DOMESTIC WATER, WASTE & VENT PIPING IN WALL/ BELOW SLAB.
 - 9 REMOVE (E)DOMESTIC WATER PIPING UP/DN FROM MEZZANINE.
 - 10 REMOVE (E)GAS PIPING UP/DN FROM MEZZANINE.
 - 11 REMOVE (E)DOMESTIC WATER HEATER & ALL ASSOCIATED DOMESTIC WATER, GAS & CONDENSATE PIPING.
 - 12 REMOVE (E)GAS & CONDENSATE PIPING SERVING REMOVED FURNACE.
 - 13 (E)EXTERNAL WALL HYDRANT & ASSOCIATED BRANCH PIPING SHALL REMAIN.
 - 14 REMOVE (E)DOMESTIC WATER SERVICE DN IN WALL THRU SLAB. REMOVE (E)DOMESTIC WATER SERVICE INCLUDING (E)TAP & METER IN PREPARATION FOR NEW WORK.



1 LEVEL 1 FLOOR PLAN - PLUMBING DEMO
3/16" = 1'-0"



2 MEZZANINE LEVEL PLAN - PLUMBING DEMO
3/16" = 1'-0"

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FLOOR PLANS -
PLUMBING DEMO

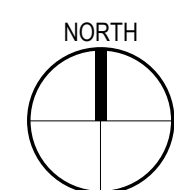
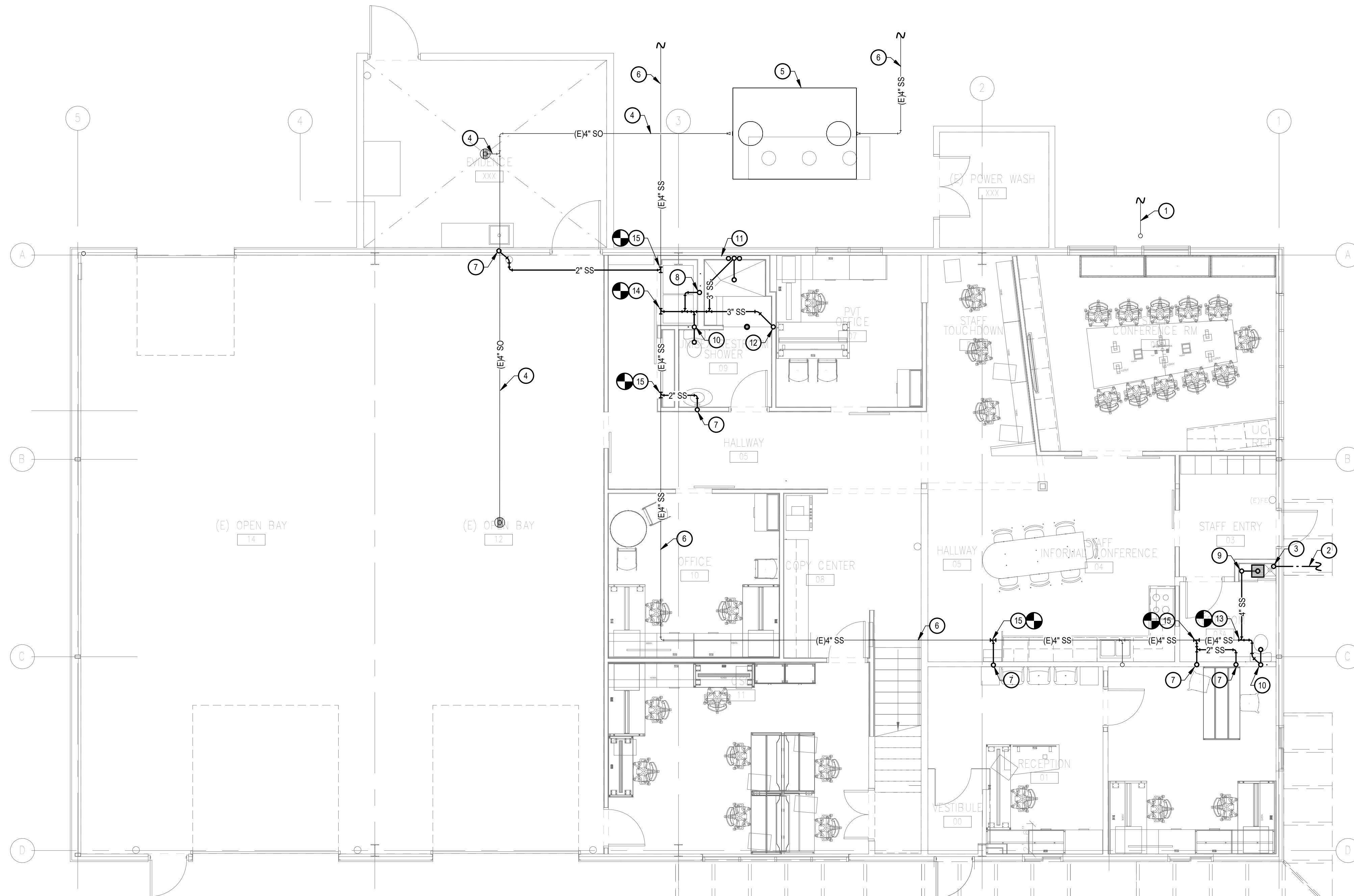
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DRAWING NOTES:

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KEY NOTES:

- 1 (E)NATURAL GAS SERVICE BELOW GRADE BY XCEL ENERGY SHALL REMAIN.
- 2 1-1/4"DCW BELOW GRADE FROM 1" DOMESTIC WATER TAP & METER.
- 3 1-1/4"DCW UP THRU SLAB ABOVE.
- 4 (E)4"SO BELOW SLAB/GRADE SHALL REMAIN.
- 5 (E)SAND-OIL INTERCEPTOR SHALL REMAIN.
- 6 (E)4"SS BELOW SLAB/GRADE SHALL REMAIN.
- 7 2"SS DN THRU SLAB FROM ABOVE.
- 8 3"SS DN THRU SLAB FROM ABOVE.
- 9 2"V UP THRU SLAB FROM 4" FLOOR SINK WASTE CONNECTION.
- 10 2"V UP THRU SLAB FROM 3" WATER CLOSET WASTE CONNECTION.
- 11 2"V UP THRU SLAB FROM 2" SHOWER WASTE CONNECTION.
- 12 2"V UP THRU SLAB FROM 2" FLOOR DRAIN WASTE CONNECTION.
- 13 CONNECT 4"SS TO (E)4"SS BELOW SLAB.
- 14 CONNECT 3"SS TO (E)4"SS BELOW SLAB.
- 15 CONNECT 2"SS TO (E)4"SS BELOW SLAB.



1 UNDERGROUND FLOOR PLAN - PLUMBING
3/16" = 1'-0"

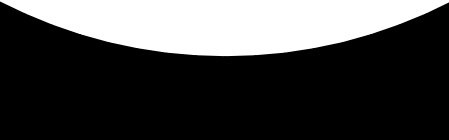
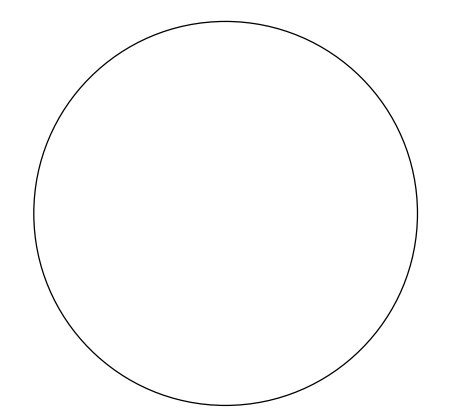


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UNDERGROUND FLOOR
PLAN - PLUMBING

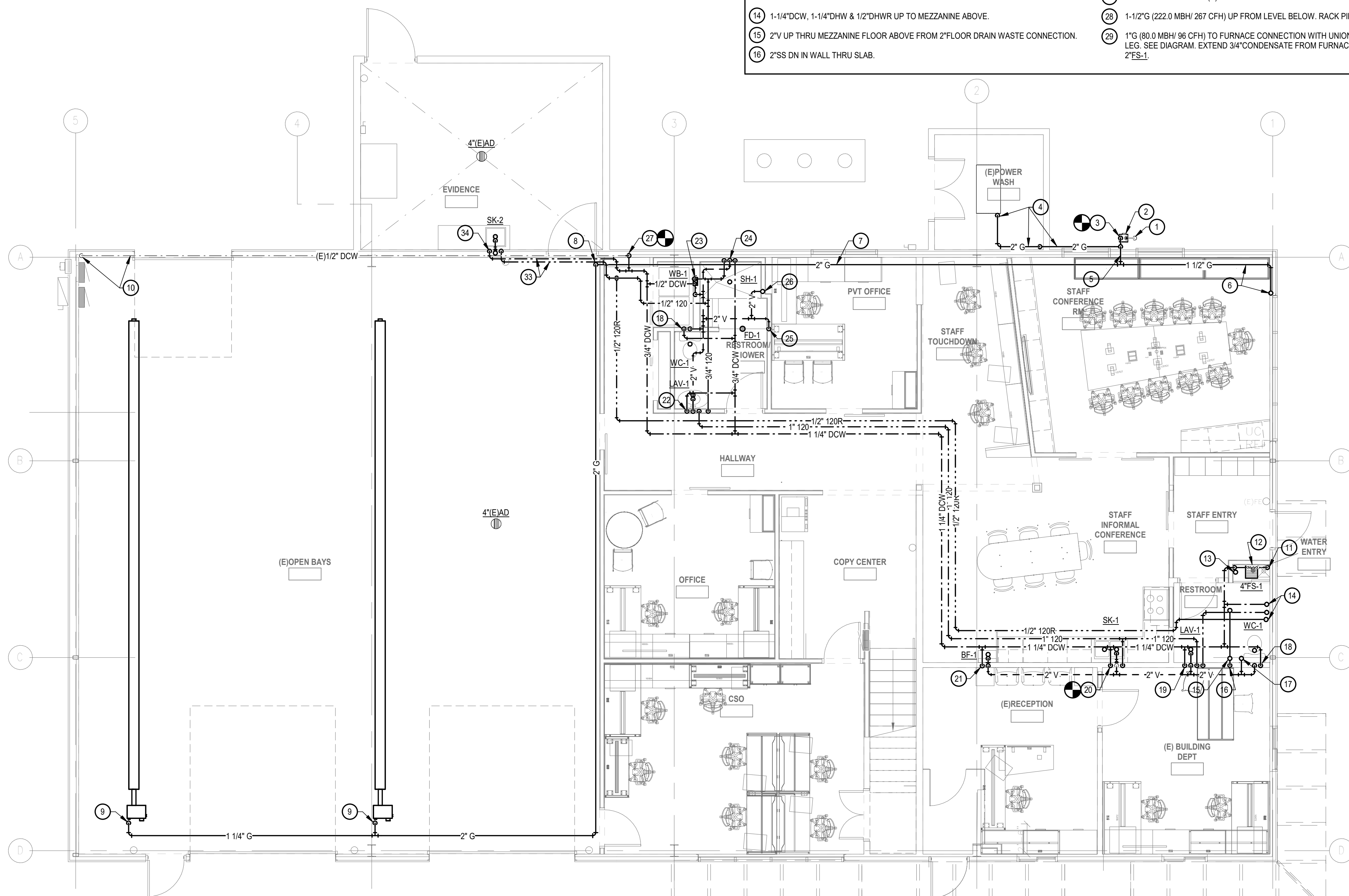
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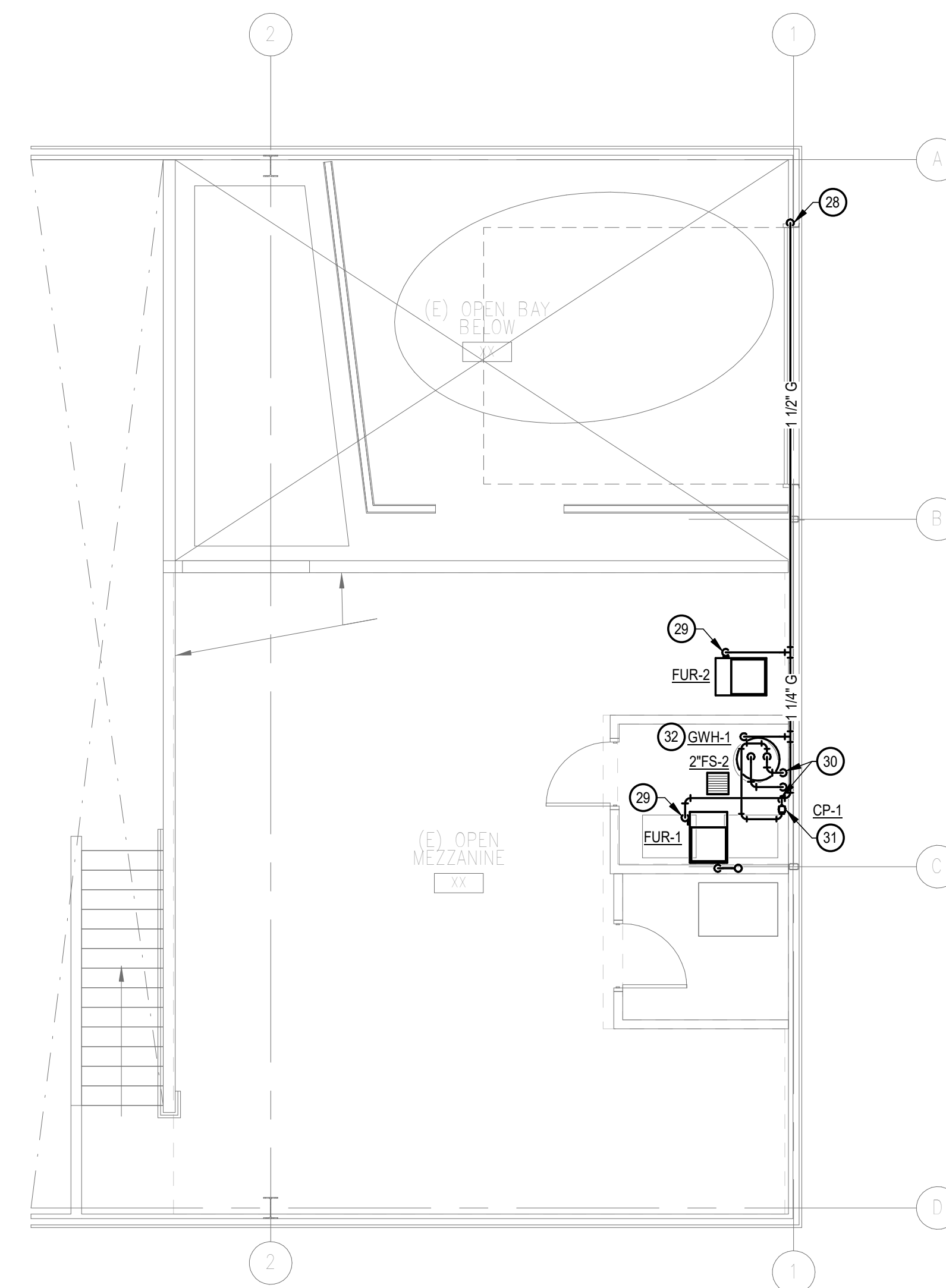
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- ROOF DRAINAGE BY ARCHITECTURAL GUTTERS & DOWNSPOUTS. SEE ARCHITECTURAL PLANS FOR ADDITIONAL INFORMATION.
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- (E)AIR COMPRESSOR & ASSOCIATED PIPES, BRANCHES & AIR CONNECTIONS SHALL REMAIN WITHIN GARAGE AREA. P.C. SHALL REMOVE (E)COMPRESSED AIR PIPING WITHIN NEW OFFICE AREA. CAP & SEAL PIPING AIRTIGHT AT DEMISING WALL.

KEY NOTES:

- (E)NATURAL GAS SERVICE BY XCEL ENERGY SHALL REMAIN.
- (E)GAS METER BY XCEL ENERGY SHALL REMAIN. NEW GAS LOAD = XXX.0 MBH/XXX CFH. P.C. SHALL COORDINATE WITH XCEL ENERGY ANY ADJUSTMENT/REPLACEMENT OF (E) METER TO ACCOMMODATE REVISED GAS LOAD.
- CONNECT 3" G (962.0 MBH/1158 CFH) TO (E)GAS METER.
- BRANCH 2" G (440.0 MBH/539 CFH) ROUTED ON EXTERIOR WALL & OFFSET INTO SHED TO (E)PRESSURE WASHER. CONNECT TO PRESSURE WASHER WITH UNION, GAS VALVE & 6" DIRT LEG. SEE DIAGRAM.
- 2" G (522.0 MBH/628 CFH) OFFSET THRU EXTERIOR WALL.
- 1-1/2" G (222.0 MBH/267 CFH) ABOVE CEILING LEVEL. OFFSET UP TO MEZZANINE LEVEL ABOVE.
- 2" G (300.0 MBH/361 CFH) ABOVE CEILING LEVEL.
- OFFSET 2" G (300.0 MBH/361 CFH) UP ON WALL TO HIGH CEILING LEVEL.
- CONNECT 1-1/4" G (150.0 MBH/180 CFH) TO RADIANT HEATER WITH UNION, GAS VALVE & 6" DIRT LEG. SEE DIAGRAM.
- (E)EXTERNAL WALL HYDRANT & ASSOCIATED BRANCH PIPING SHALL REMAIN.
- 1-1/4" DCW UP THRU SLAB.
- DOMESTIC WATER ENTRY WITH 1-1/4" DOMESTIC REDUCED PRESSURE BACKFLOW PREVENTER.
- 2" V UP ON WALL TO AIR ADMITTANCE VALVE IN ACCESSIBLE LOCATION & DN THRU SLAB TO 4" FLOOR SINK WASTE CONNECTION.
- 1-1/4" DCW, 1-1/4" DHW & 1/2" DHWR UP TO MEZZANINE ABOVE.
- 2" V UP THRU MEZZANINE FLOOR ABOVE FROM 2" FLOOR DRAIN WASTE CONNECTION.
- 2" SS DN IN WALL THRU SLAB.
- 2" V UP THRU MEZZANINE FLOOR ABOVE.
- 1/2" DCW DN IN WALL TO WATER CLOSET SUPPLY CONNECTION. 2" V UP IN WALL & DN THRU FLOOR TO 3" WATER CLOSET WASTE CONNECTION.
- 1/2" DCW, 1-1/4" DHW & 1" DHW DN IN WALL. BRANCH 1/2" DCW & 1/2" DHW TO LAVATORY FAUCET MIXING VALVE CONNECTIONS. CONNECT 1" DHW TO 1-1/4" DHW DOWNSTREAM OF FIXTURE BRANCH TO FORM CIRCULATED LOOP. 2" V UP IN WALL, 2" SS DN THRU FLOOR.
- INSTALL SK-1 AT LOCATION SHOWN. CONNECT SINK TO (E)WASTE & VENT ROUGH-INS IN WALL. 1/2" DCW & 1/2" DHW DN IN WALL TO SINK FAUCET CONNECTIONS. CONNECT 2" V TO (E)2" V RISE ABOVE CEILING LEVEL.
- 1/2" DCW DN IN WALL TO BOTTLE FILLER SUPPLY CONNECTION. 2" V UP IN WALL, 2" SS DN THRU FLOOR.
- 1/2" DCW, 1" DHW & 3/4" DHW DN IN WALL. BRANCH 1/2" DCW & 1/2" DHW TO LAVATORY FAUCET MIXING VALVE CONNECTIONS. CONNECT 3/4" DHW TO 1" DHW DOWNSTREAM OF FIXTURE BRANCH TO FORM CIRCULATED LOOP. 2" V UP IN WALL, 2" SS DN THRU FLOOR.
- 1/2" DCW & 1/2" DHW DN IN WALL TO WASHER BOX SUPPLY CONNECTIONS. 1" V UP IN WALL, 3" SS DN THRU FLOOR.
- 1/2" DCW & 1/2" DHW DN IN WALL TO SHOWER MIXING VALVE CONNECTIONS. 2" V UP IN WALL & DN THRU FLOOR TO 2" SHOWER WASTE CONNECTION.
- 2" V UP IN WALL & DN THRU FLOOR TO 2" FLOOR DRAIN WASTE CONNECTION.
- 3" V UP THRU ROOF TO 3" VTR.
- CONNECT 1/2" DCW TO (E)1/2" DCW ABOVE CEILING LEVEL.
- 1-1/2" G (222.0 MBH/267 CFH) UP FROM LEVEL BELOW. RACK PIPING ON WALL.
- 1" G (80.0 MBH/96 CFH) TO FURNACE CONNECTION WITH UNION, GAS VALVE & 6" DIRT LEG. SEE DIAGRAM. EXTEND 3/4" CONDENSATE FROM FURNACE TO OPEN SITE ABOVE 2" FS-1.
- 1-1/4" DCW, 1-1/4" DHW & 1/2" DHWR UP THRU MEZZANINE FLOOR FROM BELOW.
- RECIRCULATION PUMP MOUNTED ON WALL.
- MOUNT GWH-1 AT LOCATION SHOWN. 1-1/4" DCW & 1-1/4" DHW TO GWH-1 WATER CONNECTIONS. 1" G (62.0 MBH/75 CFH) TO GWH-1 GAS CONNECTION WITH UNION, GAS VALVE & 6" DIRT LEG. SEE DIAGRAM.
- RACK 1/2" DCW & 1/2" DHW HIGH ON WALL THRU OPEN BAY AREA.
- 1/2" DCW & 1/2" DHW DN IN WALL TO SINK FAUCET CONNECTIONS. 2" V UP IN WALL TO AIR ADMITTANCE VALVE IN ACCESSIBLE LOCATION. 2" SS DN THRU FLOOR.



1 LEVEL 1 FLOOR PLAN - PLUMBING
3/16" = 1'-0"



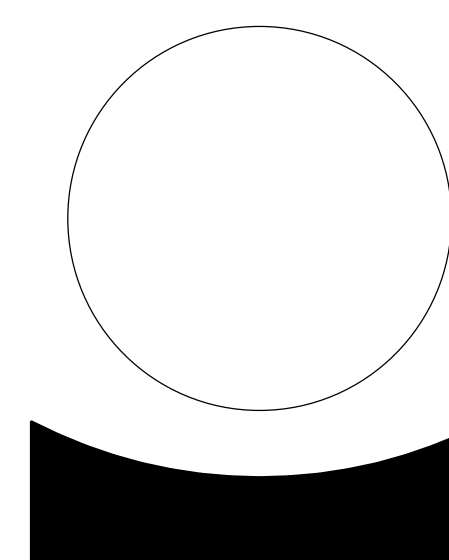
2 MEZZANINE LEVEL PLAN - PLUMBING
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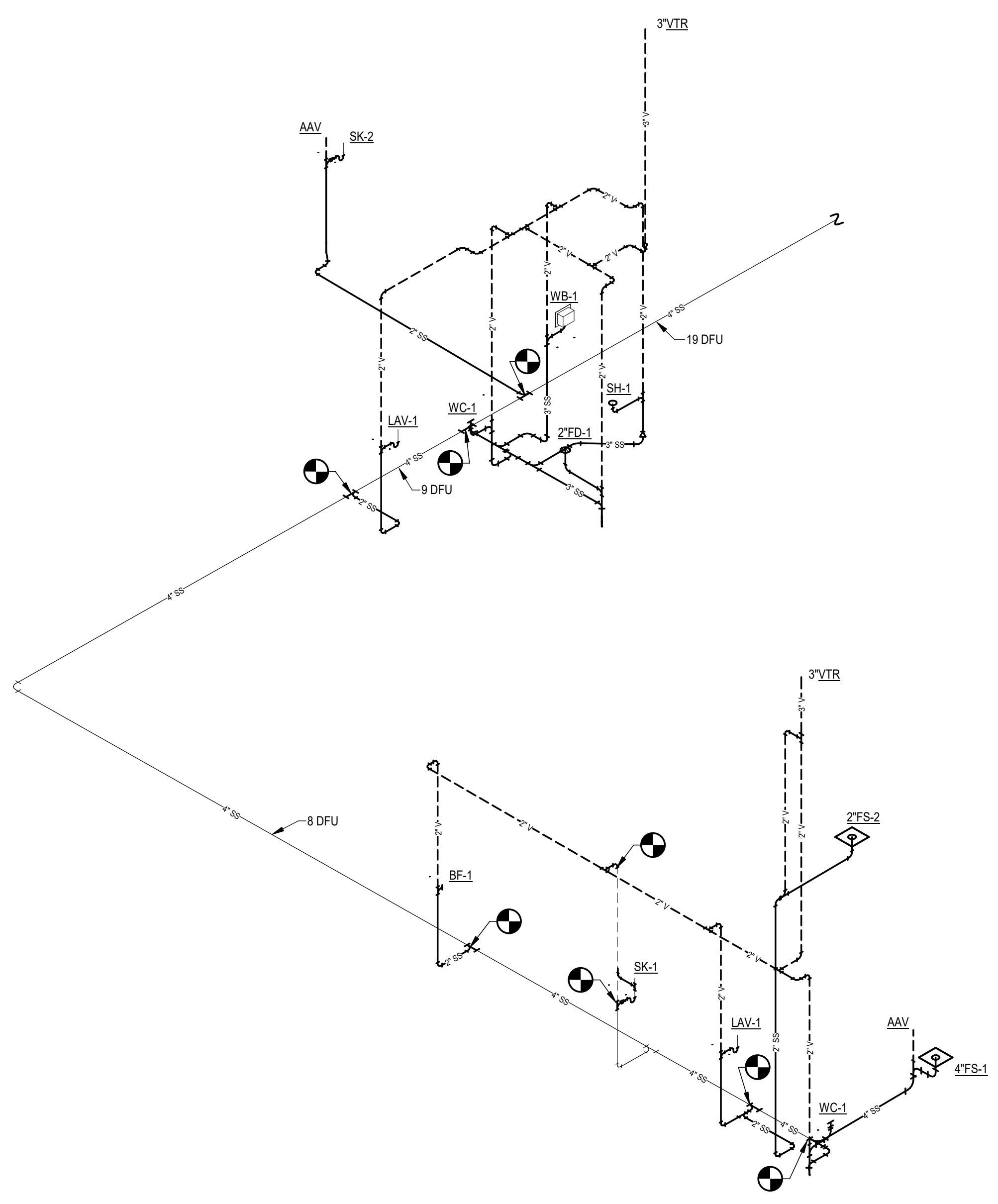
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FLOOR PLANS - PLUMBING

P2.1



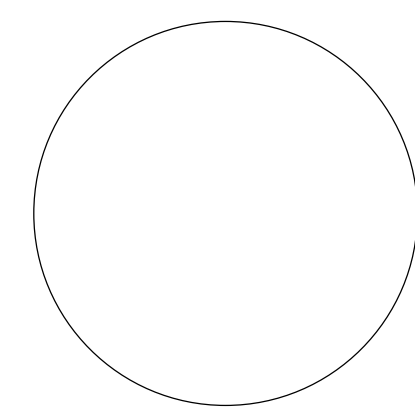
1 WASTE & VENT ISOMETRIC
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REVISION NAME	DATE

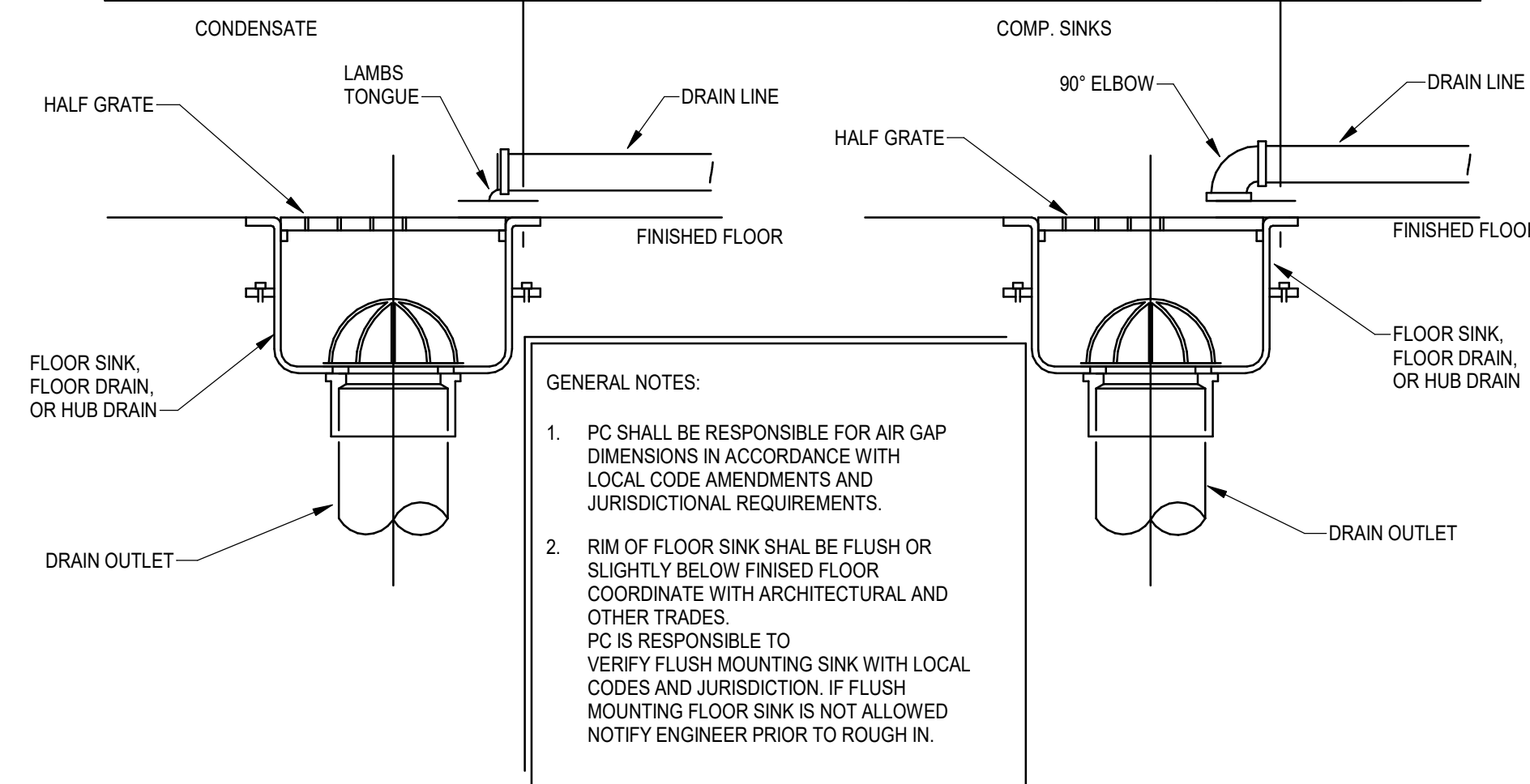
ISSUE DATE: 2023 06.19

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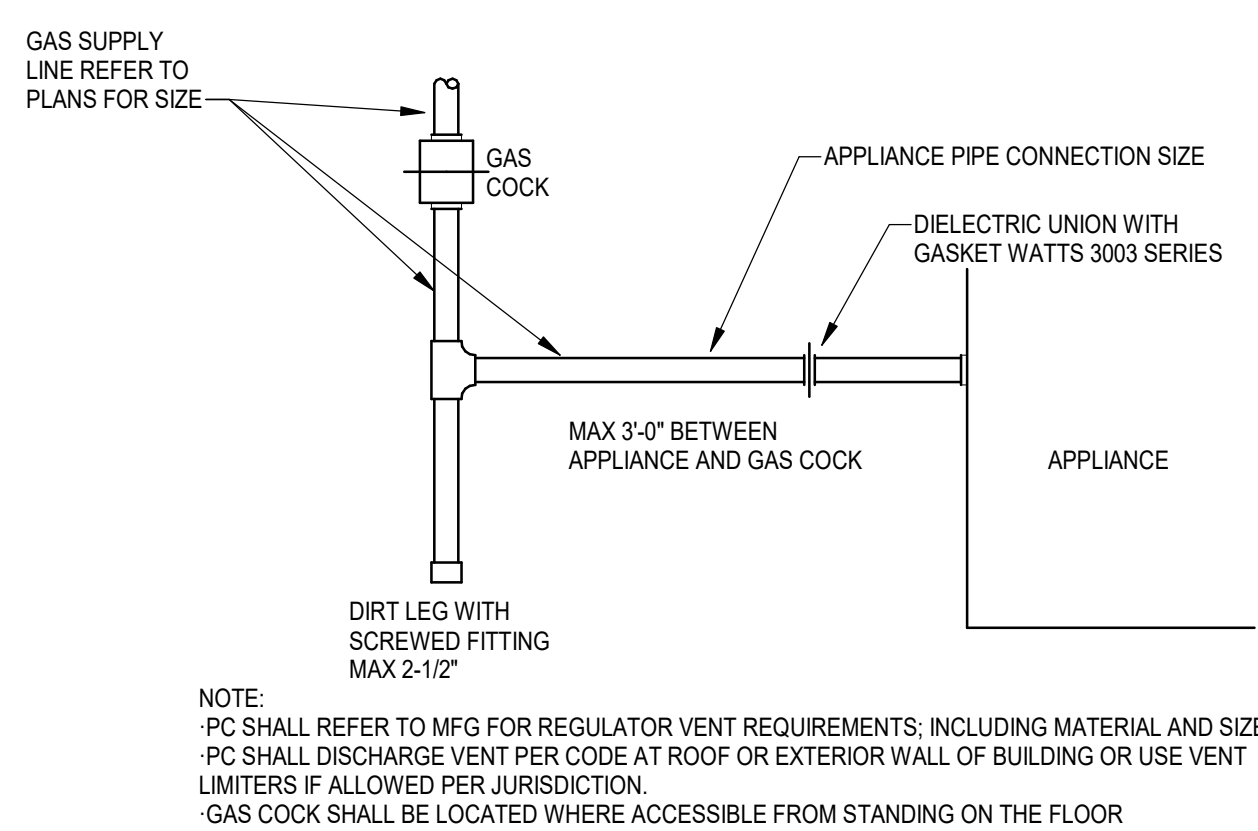
PLUMBING ISOMETRICS

P5.1

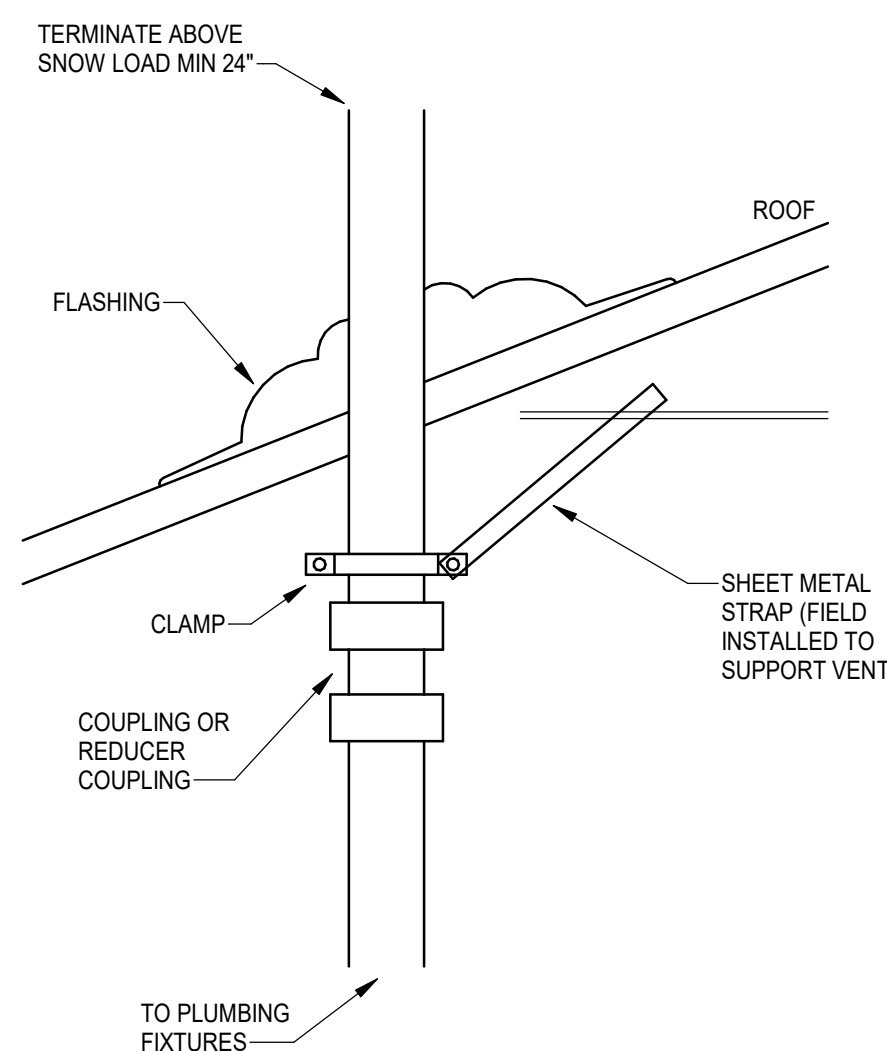
MINIMUM REQUIRED AIR GAPS: PER IPC & UPC		
FIXTURE	MINIMUM AIR GAP	
	AWAY FROM A WALL (INCHES)	CLOSE TO A WALL (INCHES)
LAVATORIES AND OTHER FIXTURES WITH EFFECTIVE OPENING NOT GREATER THAN 1/2" IN DIAMETER	1	1 1/2
SINK, LAUNDRY TRAYS, GOOSENECK BACK FAUCETS AND OTHER FIXTURES WITH EFFECTIVE OPENINGS GREATER THAN 3/4" IN DIAMETER	1 1/2	2 1/2
OVER-RIM BATH FILLERS AND OTHER FIXTURES WITH EFFECTIVE OPENINGS NOT GREATER THAN 1" IN DIAMETER	2	3
DRINKING WATER FOUNTAINS, SINGLE ORIFICE NOT GREATER THAN 7/16" IN DIAMETER OR MULTIPLE ORIFICES WITH A TOTAL AREA OF 0.150 SQUARE INCH (AREA OF CIRCLE 7/16" IN DIAMETER)	1	1 1/2
EFFECTIVE OPENINGS GREATER THAN 1"	TWO TIMES THE DIAMETER OF THE EFFECTIVE OPENING	THREE TIMES THE DIAMETER OF THE EFFECTIVE OPENING



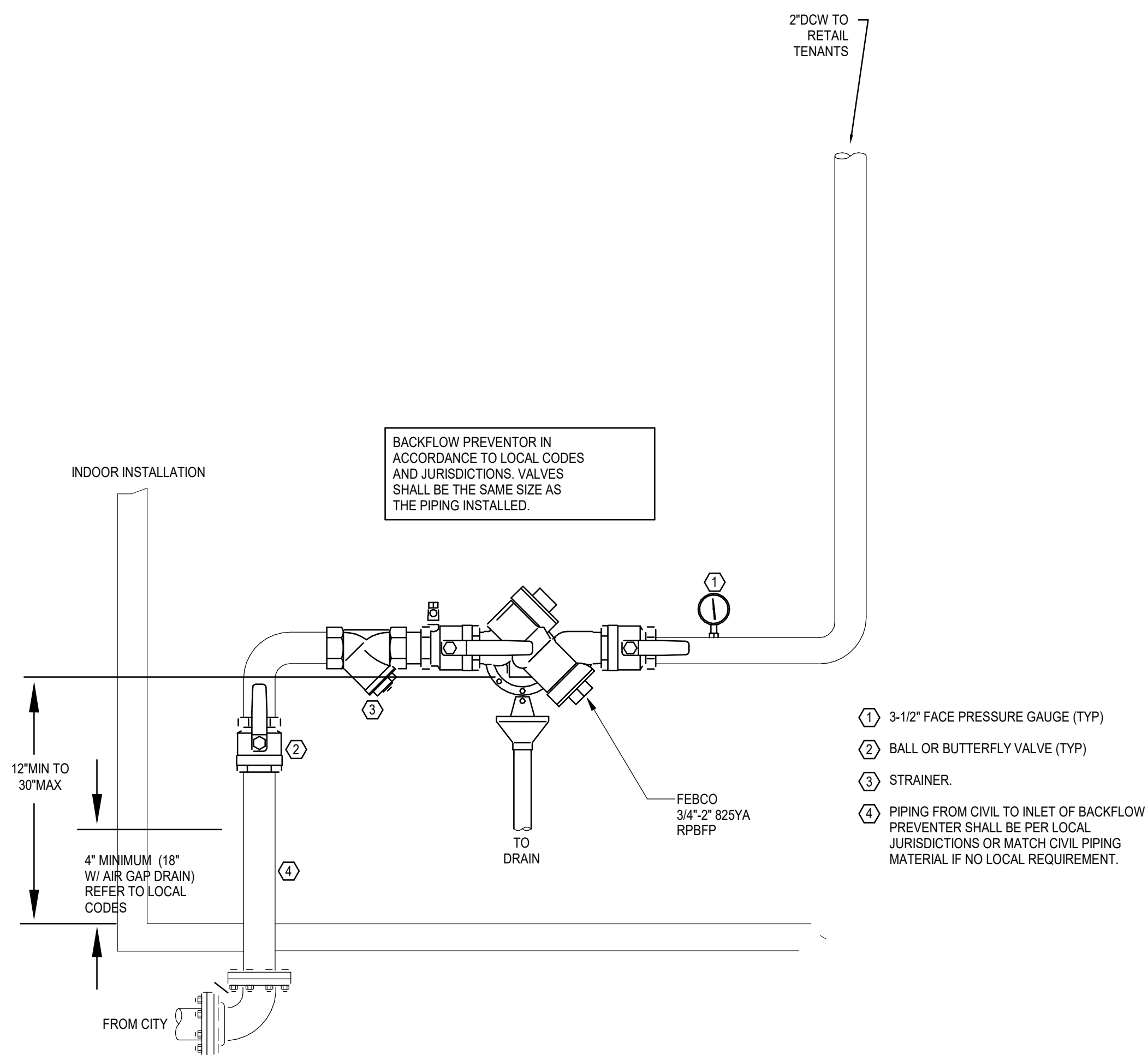
7 INDIRECT CONNECTION DIAGRAM
N.T.S.



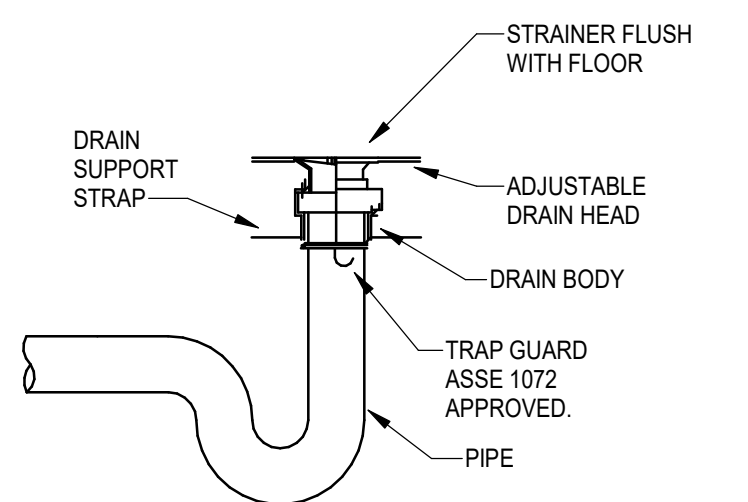
8 TYPICAL GAS PIPE CONNECTION DIAGRAM
N.T.S.



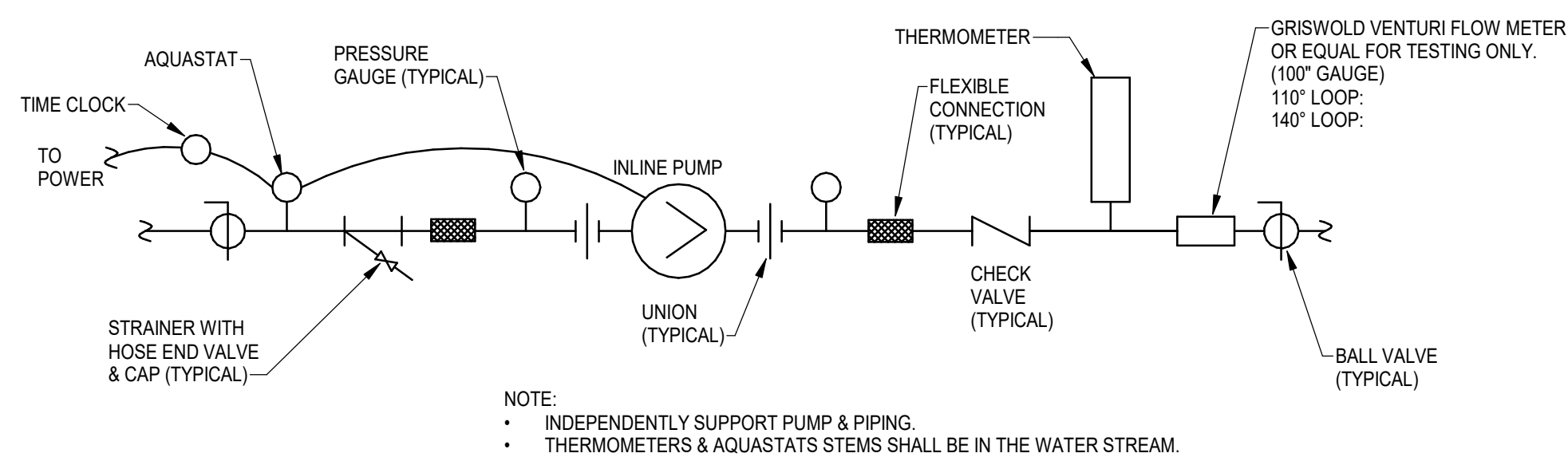
9 VENT PIPE DIAGRAM - SLOPED ROOF
N.T.S.



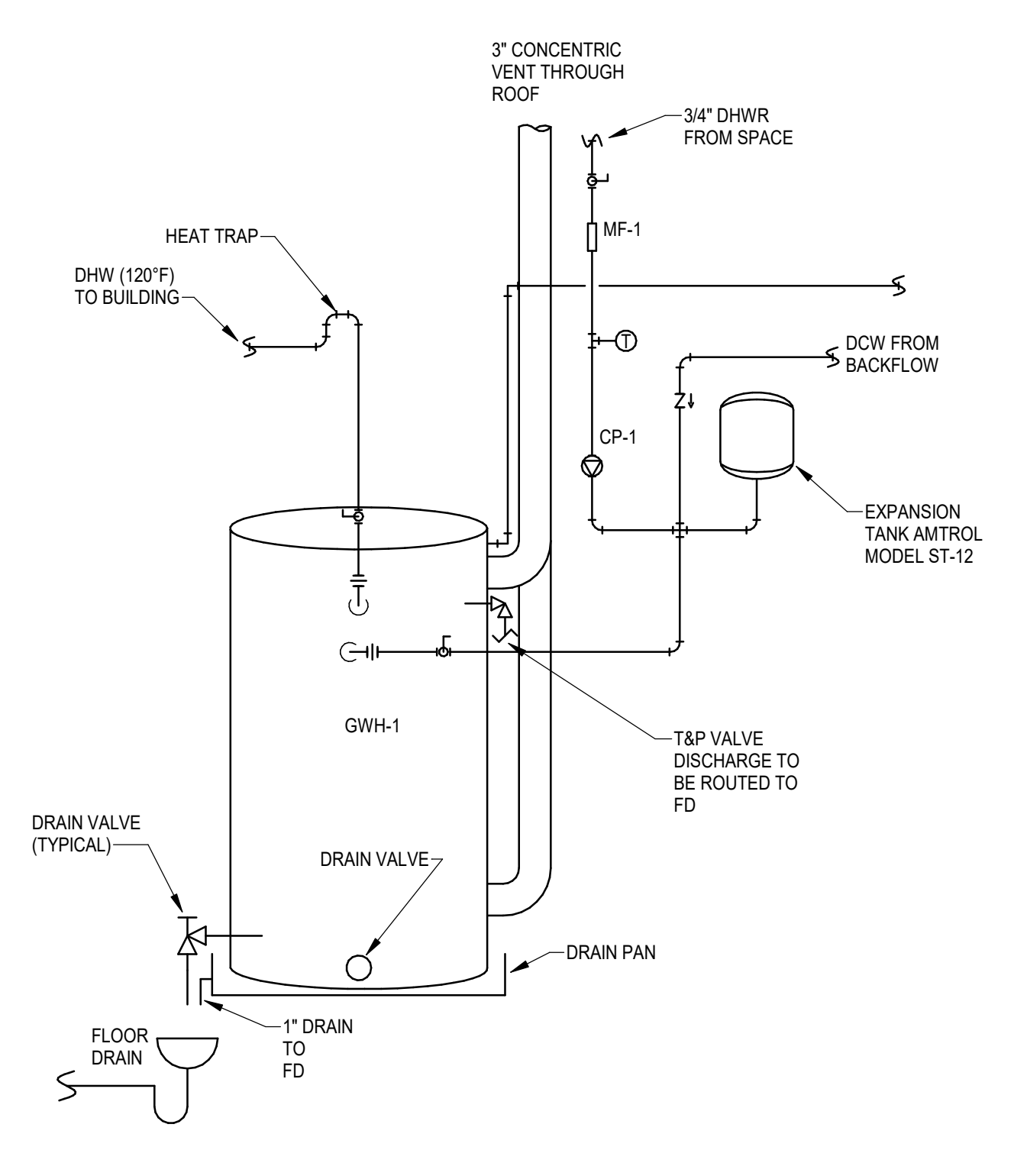
4 DOMESTIC WATER ENTRY
N.T.S.



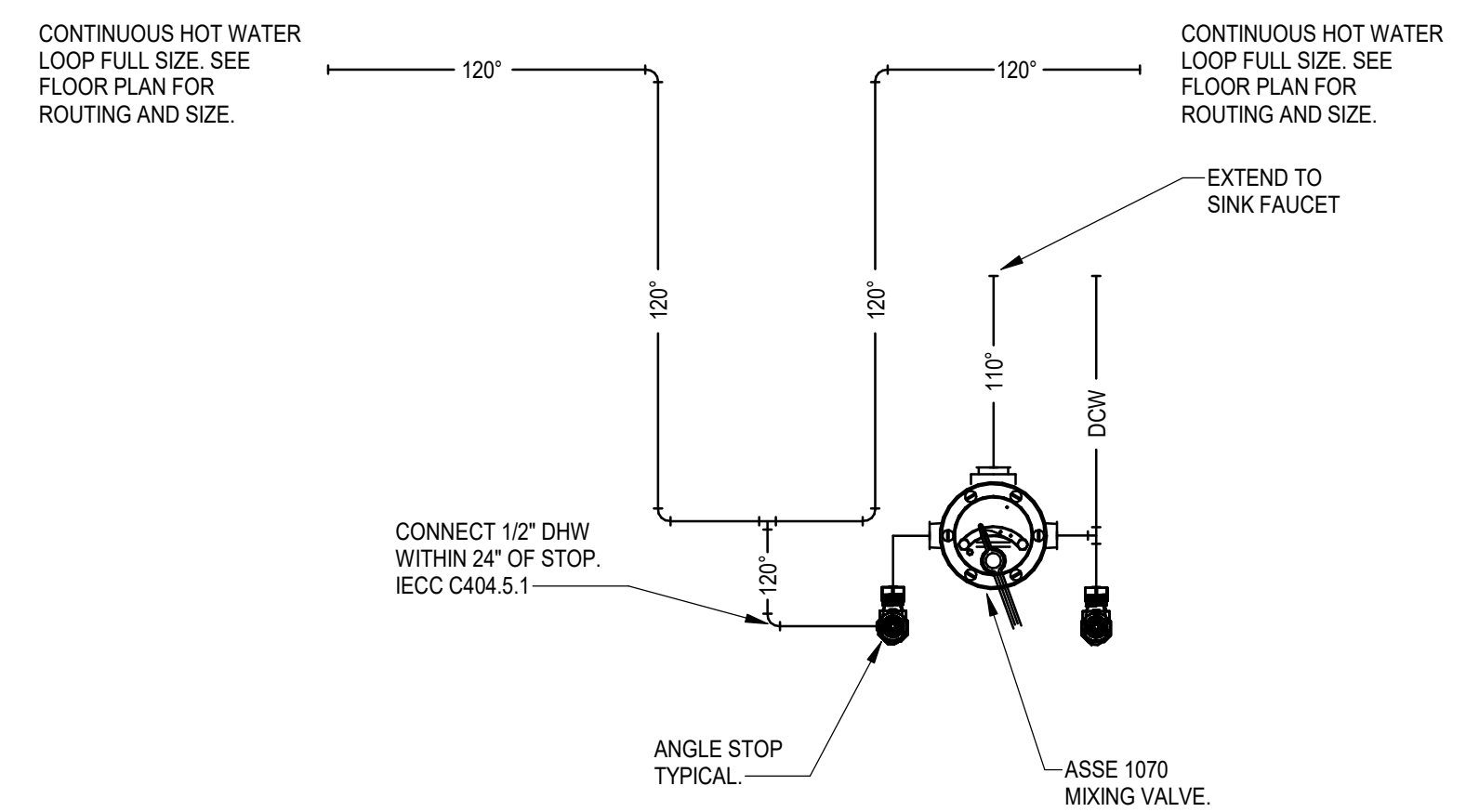
5 FLOOR DRAIN W/ TRAP GUARD DIAGRAM
N.T.S.



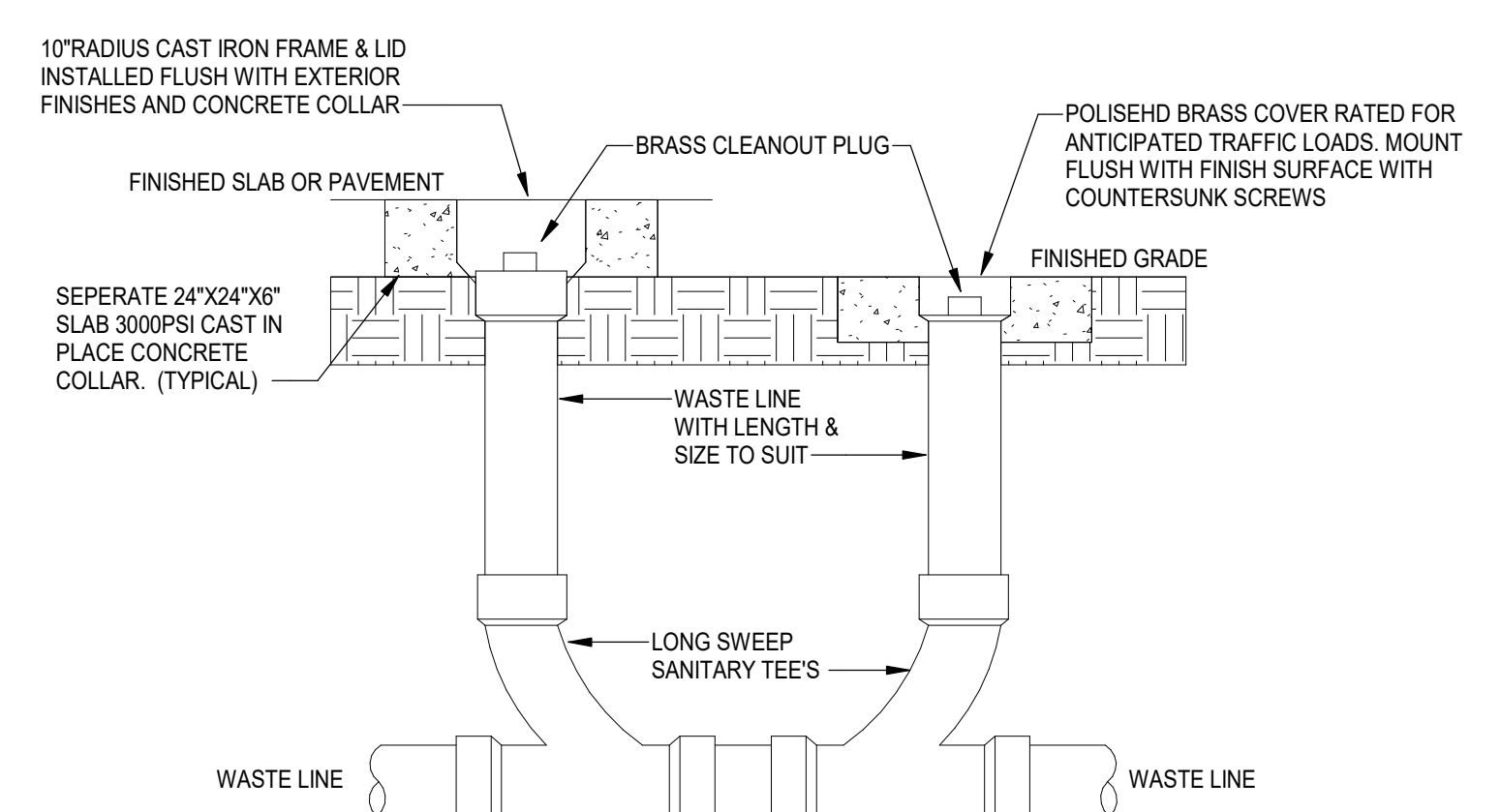
6 INLINE AQUASTAT PUMP DIAGRAM
N.T.S.



1 GAS WATER HEATER DIAGRAM
N.T.S.



2 HOT WATER TO PUBLIC FIXTURE DIAGRAM
N.T.S.



3 2-WAY CLEANOUT DIAGRAM
N.T.S.

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PLUMBING DIAGRAMS

P5.2

ELECTRICAL SPECIFICATIONS

THIS SHEET SPECIFICATION SHALL GOVERN IN LIEU OF SEPARATE BOUND SPECIFICATIONS. IF BOUND SPECIFICATIONS ARE ALSO ISSUED WITH THE JOB, THEN THE MORE STRINGENT REQUIREMENT BETWEEN THE TWO SHALL PREVAIL. CONTACT ARCHITECT/ENGINEER AT THE TIME OF BID IF CLARIFICATION IS REQUIRED.

1. BASIC REQUIREMENTS
 - A. ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH CURRENT LOCAL CODES, ORDINANCES, AND REGULATIONS, NATIONAL ELECTRIC CODE, LOCAL HEALTH DEPARTMENT REGULATIONS, AND APPLICABLE NFPA CODES. PAY FOR ALL FEES AND PERMITS AS ARE NECESSARY FOR THE COMPLETE INSTALLATION OF THE ELECTRICAL SYSTEMS INCLUDING UTILITY CHARGES. ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH LOCAL UTILITY REQUIREMENTS.
 - B. PROJECT SHALL INCLUDE ALL ITEMS NECESSARY FOR COMPLETE AND FULLY OPERATIONAL TENANT AND BUILDING ELECTRICAL SYSTEMS. MAKE CONNECTIONS TO AND EXTEND SYSTEMS INSTALLED BY OTHERS AND/OR FURNISHED BY OTHERS. PROVIDE ACCESSORIES AND INCIDENTAL ITEMS AS REQUIRED FOR COMPLETE AND FULLY OPERATIONAL SYSTEMS WHETHER OR NOT SPECIFICALLY SPECIFIED AND/OR SHOWN ON THE PLANS.
 - C. DO NOT SCALE FROM THESE DRAWINGS. REFER TO ARCHITECTURAL OR CIVIL DRAWINGS BY OTHERS FOR DIMENSIONS AND FOR ESTIMATING DISTANCES. THESE DRAWINGS ARE TO BE READ IN CONJUNCTION WITH ALL RELEVANT DRAWINGS AND SPECIFICATIONS RELATING TO THE JOB WHETHER OR NOT INDICATED ON THESE DRAWINGS.
 - D. ANY SCALE, DIMENSION OR QUANTITIES SHOWN ON THE DRAWINGS ARE FOR ENGINEERING CALCULATION PURPOSES ONLY. THE ELECTRICAL CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR ESTIMATING AND DETERMINING ALL DISTANCES AND QUANTITIES RELATED TO THE PROJECT. REFER TO ARCHITECTURAL OR CIVIL DRAWINGS BY OTHERS AND VERIFY EXISTING CONDITIONS ON SITE FOR ALL ESTIMATING PURPOSES.
 - E. COORDINATE WITH OTHER TRADES FOR A COORDINATED INSTALLATION WITHIN THE AVAILABLE SPACE. WHERE CROWDED CONDITIONS EXIST, PREPARE COORDINATION DRAWINGS SHOWING ALL TRADE CONFLICTS AND SUBMIT TO ARCHITECT FOR APPROVAL AND DIRECTION PRIOR TO ROUGH-IN AND/OR INSTALLATION. RELOCATION OF OUTLETS AND/OR DEVICES MADE PRIOR TO ROUGH-IN SHALL BE DONE AT NO ADDITIONAL COST.
 - F. ALL WORK SHALL BE PERFORMED BY PROPERLY LICENSED ELECTRICIANS OR UNDER THEIR DIRECT SUPERVISION. ALL MATERIALS AND EQUIPMENT SHALL MEET THE REQUIREMENTS OF THE APPLICABLE STANDARDS OF UL AND SHALL BEAR THE UL LABEL AS EVIDENCE THAT THE MATERIAL AND/OR EQUIPMENT MEETS THIS REQUIREMENT.
 - G. SUBMIT MANUFACTURERS LITERATURE (SHOP DRAWINGS) FOR RACEWAYS AND FITTINGS, BOXES, WIRE, CABLES, WIRING DEVICES, NAME PLATES, LEGEND PLATES, LABELS, PANELBOARDS, FUSES, CIRCUIT BREAKERS, SWITCH GEAR, AND SAFETY SWITCHES. SUBMITTAL SHALL BEAR THE APPROVAL OF THE GENERAL CONTRACTOR FOR COMPLIANCE WITH COORDINATION AND THESE SPECIFICATIONS PRIOR TO SUBMITTAL TO ARCHITECT AND/OR HIS AGENCIES.
 - H. ALL SWITCH BOARDS, DISTRIBUTION BOARDS, PANELBOARDS, DISCONNECT SWITCHES, TRANSFORMERS AND SIMILAR ELECTRICAL EQUIPMENT SHALL BE PROVIDED WITH ENGRAVED PLASTIC-LAMINATE LABELS INDICATING THE EQUIPMENT NAME SPECIFIED ON THE PLANS OR THE LOAD SERVED BY THE EQUIPMENT. ALL PANELBOARDS SHALL BE PROVIDED WITH REMOVABLE, TYPED PANEL SCHEDULES WITH CLEAR PLASTIC COVERS AFFIXED TO THE FACE OR INSIDE OF THE PANEL DOOR. PANEL SCHEDULES SHALL CLEARLY INDICATE THE SPECIFIC LOAD SERVED BY EACH INDIVIDUAL CIRCUIT BREAKER OR DISCONNECT SWITCH AND SHALL REFLECT THE FINAL, AS-BUILT CONDITIONS AT COMPLETION OF WORK. THE IDENTIFICATION SHALL INCLUDE SUFFICIENT DETAIL TO ALLOW EACH CIRCUIT TO BE DISTINGUISHED FROM ALL OTHERS. SPARE POSITIONS SHALL BE LABELED ACCORDINGLY.
 - I. CONTRACTOR SHALL THOROUGHLY REVIEW THE PLANS AND SPECIFICATIONS OF ALL DIVISIONS AND TRADES, ESPECIALLY THE ARCHITECTURAL DRAWINGS. ELECTRICAL REQUIREMENTS OF OTHER TRADES AND DIVISIONS INCLUDING PRODUCTS SPECIFIED, MOUNTING INSTRUCTIONS, AND MATERIAL SELECTIONS SHALL BE FURNISHED AND INSTALLED BY THIS CONTRACTOR. IF A CONFLICT EXISTS, CONTRACTOR SHALL OBTAIN A CLARIFICATION AND DIRECTIONS FROM THE ARCHITECT PRIOR TO ROUGH IN OR PROCEEDING WITH THE WORK.
 - J. FURNISHED EQUIPMENT.
 - a. MAKE FINAL CONNECTIONS TO FURNISHED EQUIPMENT AS REQUIRED.
 - b. RECEIVE AND COMPLETELY INSTALL FURNISHED EQUIPMENT, MATERIALS, AND APPARATUS FURNISHED BY OTHERS FOR INSTALLATION OF A COMPLETE ELECTRICAL SYSTEM.
 - c. REVIEW CONSTRUCTION DOCUMENTS AND INSTALLATION INSTRUCTIONS FOR MATERIALS AND EQUIPMENT FURNISHED FOR INSTALLATION BY THIS CONTRACTOR. INSTALL ALL EQUIPMENT AND APPARATUS IN ACCORDANCE WITH MANUFACTURERS REQUIREMENTS AND SUGGESTED PRACTICES, PROVIDE SUPPLEMENTAL AND INCIDENTAL MATERIALS INCLUDING CORDS, PLUGS, AND RECEPTACLES AS MAY BE REQUIRED FOR A COMPLETE AND FULLY OPERATIONAL SYSTEM.
 - d. CONFIRM ALL CONNECTION REQUIREMENTS AND ROUGH-IN CONDITIONS PRIOR TO INSTALLATION. CERTAIN DATA IS GIVEN BUT NOT GUARANTEED. PROVIDE ROUGH-IN AND FINAL TERMINATION INCLUDING APPROPRIATE PLUGS AND DISCONNECTS AS MAY BE REQUIRED. PREPARE A DETAILED ROUGH-IN DRAWING FOR APPROVAL PRIOR TO ROUGH-IN.
 - K. CONFIRM ACTUAL VOLTAGES, PHASE AND CHARACTERISTICS OF EXISTING EQUIPMENT AND APPARATUS AND EQUIPMENT AND APPARATUS FURNISHED BY TENANT, OTHER TRADES, AND/OR DIVISIONS. CONFIRM PRIOR TO ROUGH-IN, IF DISCREPANCIES ARE NOTED TO THE INSTRUCTIONS OF THESE PLANS AND SPECIFICATIONS, SUBMIT THE NOTED DISCREPANCIES TO THE ARCHITECT FOR DIRECTION PRIOR TO ROUGH-IN OR PROCEEDING WITH THE WORK.
 - L. ALL WORK IN FINISHED AREAS SHALL BE CONCEALED UNLESS SPECIFICALLY NOTED AS EXPOSED ON THE PLANS. PRIOR TO INSTALLATION OF ANY EXPOSED WORK THIS CONTRACTOR SHALL VERIFY AND OBTAIN ARCHITECTURAL APPROVAL OF LOCATION AND EXTENT.
 - M. UNLESS OTHERWISE SPECIFIED ALL OUTLETS ARE 18" AFF. IF OUTLET IS SPECIFIED UNDER OR ABOVE COUNTER, CONFIRM HEIGHT WITH ARCHITECT.
 - N. COORDINATE WITH MECHANICAL AND PLUMBING ENGINEERED DRAWINGS AND PROVIDE ELECTRICAL CONNECTIONS FOR ALL EQUIPMENT AS SCHEDULED, INCLUDING BUT NOT LIMITED TO ALL HVAC EQUIPMENT, PUMPS, WATER HEATERS, FIRE SMOKE DAMPERS, ETC.
2. ELECTRICAL SERVICE
 - A. NEW 208Y/120 VOLT, 3 PHASE, 4 WIRE ELECTRICAL SERVICE IS REQUIRED.
 - B. E.C. TO CONTACT THE LOCAL UTILITY TO VERIFY TRANSFORMER SIZE, LOCATION, CONNECTION LOCATION AND TYPE, AND TO COORDINATE INSTALLATION OF ALL UTILITY METERING AND SERVICE ENTRANCE EQUIPMENT PRIOR TO INSTALLATION OF EQUIPMENT.
 - C. E.C. TO VERIFY SCOPE OF WORK REQUIREMENTS, INCLUDING BUT NOT LIMITED TO: CONDUIT, WIRE, CONNECTION CABINETS, PULLING OF WIRE AND HOUSE KEEPING PADS, E.C. TO PROVIDE SERVICE CO-ORDINATION AND APPLICATION.
3. DEMOLITION AND CONTINUITY OF SERVICE
 - A. ALL UNUSED ELECTRICAL RACEWAYS, DEVICES, DEVICE APPLICATIONS, WIRE AND CABLE LOCATED IN THE AREA TO BE RENOVATED SHALL BE REMOVED. INFORMATION ON EXISTING ELECTRICAL EQUIPMENT, PANELS WIRING, AND DEVICES INDICATED IN THIS PROJECT IS AS ACCURATE AS COULD BE OBTAINED FROM A CURSORY SURVEY. THE ACCURACY OF THIS INFORMATION IS NOT GUARANTEED AND IS FOR THE INFORMATIONAL GUIDANCE OF THE PREDICATIONS AND LOCAL CODES. THIS CONTRACTOR SHALL MAKE NECESSARY CORRECTIONS TO EXISTING SYSTEMS AS ARE REQUIRED FOR A COMPLETE AND OPERATIONAL ELECTRICAL SYSTEM. SHOULD INSUFFICIENT CAPACITY, CAPABILITY, OR INCOMPATIBLE ELECTRICAL TERMINATIONS BE PRESENT THIS CONTRACTOR SHALL SUBMIT THE NOTED DISCREPANCIES TO THE ARCHITECT FOR DIRECTION PRIOR TO ROUGH-IN OR PROCEEDING WITH THE WORK.
 - B. ELECTRICAL SERVICE TO THE BUILDING MAY BE INTERRUPTED ONLY AT A TIME COORDINATED WITH AND APPROVED BY THE BUILDING MANAGER. IN GENERAL THIS WILL BE ALLOWED DURING OFF HOURS AND ON WEEKENDS FOR LIMITED PERIODS OF TIME.

4. BASIC MATERIALS
 - A. RACEWAYS AND FITTINGS: RACEWAYS EMBEDDED IN CONCRETE OR MASONRY WALLS SHALL BE IN EMT OR PVC; IN HOLLOW NON MASONRY WALLS AND ABOVE CEILING SHALL BE EMT OR MC CABLE RACEWAY EXPOSED TO SEVERE PHYSICAL DAMAGE SHALL BE RGS; AND RACEWAYS BETWEEN VIBRATING EQUIPMENT SHALL BE FMT. MC CABLE IS NOT ALLOWED FOR BRANCH CIRCUIT HOMERUN CONDUITS FROM LAST DEVICE OR JUNCTION BOX TO PANELBOARD. CONDUITS IN OR BELOW SLAB ON GRADE OR IN CONTACT WITH BARE EARTH SHALL BE PVC OR RGS.
 - B. CONDUCTORS: ALL CONDUCTORS SHALL BE COPPER RATED FOR 600 VOLTS AND HAVE MINIMUM 75 DEGREES C INSULATION. MINIMUM SIZE SHALL BE #12 AWG. ALL BUILDING WIRING SHALL BE THINWALL. EXTERIOR WIRING SHALL BE XHHW. ALUMINUM CONDUCTORS ARE PERMITTED FOR FEEDERS AND BRANCH CIRCUITS RATED 100 AMPERES AND GREATER. INCREASE CONDUCTOR SIZE TO MAINTAIN A MAXIMUM 3% VOLTAGE DROP ON ANY FEEDER OR BRANCH CIRCUIT, OR A MAXIMUM OF 5% TOTAL VOLTAGE DROP. ALL WIRES ON THE SAME LEG OR PHASE SHALL HAVE THE SAME COLOR CODE.
 - C. EXISTING ALUMINUM CONDUCTORS: WHERE CONNECTIONS ARE MADE TO EXISTING ALUMINUM CONDUCTORS BEING REUSED IN THIS PROJECT, CONNECTIONS SHALL BE MADE WITH LOCALLY APPROVED UL LISTED COPPER TO ALUMINUM CONNECTIONS.
 - D. TYPE NM OR NMC CABLES ARE PERMITTED IN CONSTRUCTION TYPES III, IV, & V AS ALLOWED BY NEC 334 AND APPROVED BY OWNER. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL CONSTRUCTION CHANGES DUE TO THESE CABLES USE IN LIEU OF CONDUIT.
 - E. PROVIDE SEPARATE (DEDICATED) NEUTRAL CONDUCTOR FOR EACH DEDICATED EQUIPMENT CIRCUIT. SHARED NEUTRAL CONDUCTORS ARE NOT PERMITTED FOR DEDICATED CIRCUITS, WHERE PERMITTED, SHARED NEUTRAL CONDUCTORS SHALL BE COPPER NO. 10 AWG MINIMUM.
 - F. PROVIDE METALLIC OUTLET, PULL AND JUNCTION BOXES AS REQUIRED. ALL POWER, CONTROL, OR INSTRUMENTATION WIRING GREATER THAN 24 VOLTS SHALL BE IN CONDUIT. CLASS 2 LOW VOLTAGE WIRING SHALL BE PLENUM RATED WHERE INSTALLED WITHIN ENVIRONMENTAL AIR PLENUMS.
 - G. PROVIDE RECEPTACLES, GFI RECEPTACLES, SPECIAL PURPOSE RECEPTACLES AND SWITCHES OF ONE MANUFACTURER. PROVIDE COMMERCIAL GRADE DIMMERS FOR CIRCUITS INDICATED. STABILIZATION IN CONNECTION WITH IT NOT BE APPROVED. SEE ARCHITECTURAL DRAWINGS FOR SPECIAL MOUNTING LOCATIONS, ORIENTATION, AND COLORS. CONFIRM RECEPTACLE, SPECIAL RECEPTACLE AND SWITCH MOUNTING HEIGHT AND ORIENTATION WITH ARCHITECT PRIOR TO ROUGH-IN. WHERE NEW OUTLETS AND DEVICES ARE INSTALLED, MAINTAIN ADA MOUNTING HEIGHTS AND REQUIREMENTS UNLESS SPECIFICALLY DIRECTED OTHERWISE.
 - H. PANELBOARDS AND SAFETY SWITCHES SHALL BE OF ONE MANUFACTURER AND SHALL BE COMPLETE WITH PROTECTIVE DEVICES, ENCLLOSURES, BUSES, GROUNDS, ISOLATED GROUND BUS, AND NEUTRAL BARS AS REQUIRED.
 - I. SWITCHBOARDS ARE TO BE PROVIDED WITH FULLY RATED HORIZONTAL BUS THROUGHOUT ENTIRE LENGTH OF GEAR. PROVIDE MEANS FOR INSTALLATION OF FUTURE SECTIONS (FUTURE BUS EXTENSIONS). PROVIDE SPACE FOR INSTALLATION OF FUTURE OVERCURRENT DEVICES, EQUAL TO 20% OF AMPERE RATING OF GEAR.
 - J. PROVIDE ARC FLASH HAZARD WARNING LABELS ON ALL ELECTRICAL EQUIPMENT PER NEC 110.16.
5. GROUNDING
 - A. PROVIDE COPPER GROUNDING CONDUCTORS AND COPPER CLAD STEEL MADE ELECTRODES IN ACCORDANCE WITH THE NEC. BARE COPPER OR GREEN INSULATED WIRE IS ACCEPTABLE.
 - B. ALL EQUIPMENT SHALL BE CONTINUOUSLY GROUNDED. AN EQUIPMENT GROUNDING CONDUCTOR IS TO BE INSTALLED IN ALL FEEDER AND BRANCH CIRCUITS.
6. LIGHTING
 - A. PROVIDE ALL ACCESSORIES REQUIRED FOR A COMPLETE AND OPERABLE SYSTEM. FOR RECESSED FIXTURES, PROVIDE PLASTER FRAMES AND FLANGES SUITABLE FOR CEILING. CLEAN AND SERVICE FIXTURES. PROVIDE ACCESSORIES AND INCIDENTAL ITEMS AS REQUIRED FOR FIXTURES FURNISHED BY OTHERS FOR INSTALLATION.
 - B. FINAL LOCATION OF ALL FIXTURES SHALL BE AS INDICATED ON ARCHITECTURAL REFLECTED CEILING PLANS AND/OR ELEVATIONS AND DETAILS.
 - C. INSTALL ACCESSORIES AND MODIFY FIXTURES AS REQUIRED FOR COMPLIANCE WITH REQUIREMENTS OF LOCAL DEPARTMENT OF HEALTH. OBTAIN ARCHITECTURAL APPROVAL FOR ANY SUBSTITUTION OR MODIFICATION TO FIXTURES GIVEN.
 - D. PROVIDE TENTING OR OTHER SUITABLE MEANS TO KEEP NON-IC RATED FIXTURES A MINIMUM OF 3" (OR MANUFACTURER REQUIRED DISTANCE) FROM INSULATION.
 - E. ALL EXIT SIGNS AND EMERGENCY LIGHTING BATTERY UNITS SHALL BE WIRED AHEAD OF ANY CONTROL DEVICES; FED FROM AN UNSWITCHED CIRCUIT.
7. TELEPHONE/DATA PROVISIONS
 - A. INSTALL OUTLET BOX WITH CONDUIT TO ABOVE THE CEILING. INSTALL CABINET AND/OR FIXTURE OUTLETS IN COORDINATION WITH ARCHITECTURAL AND MILLWORK DETAILS WITH CONDUITS OR RACEWAYS TO ABOVE NEW FINISHED CEILING.
 - B. PROVIDE PULL BOXES WITH PULL WIRE (ROPE) IN ALL OUTLETS.
 - C. PROVIDE COVER PLATES FOR ALL OUTLETS. COLOR SELECTED BY ARCHITECT. CONFIRM ALL MOUNTING HEIGHTS AND ORIENTATIONS WITH ARCHITECT PRIOR TO ROUGH-IN.
8. FIRE ALARM SYSTEM
 - A. THESE DRAWINGS ARE NOT INTENDED TO SPECIFY FIRE ALARM SYSTEM REQUIREMENTS. FIRE ALARM SYSTEM REQUIREMENTS SHALL BE DETERMINED BY OTHERS.
 - B. FIRE ALARM SYSTEM SHALL BE DESIGNED, SIGNED AND SEALED BY A FIRE ALARM PROFESSIONAL AND BE APPROVED BY THE LOCAL FIRE DISTRICT.
 - C. FURNISH AND INSTALL ALL DUCT SMOKE DETECTORS AS MAY BE REQUIRED.
 - D. FURNISH AND INSTALL ALL FIRE ALARM HORNS AND LIGHTS AND STROBES AS MAY BE REQUIRED.
- END-

ELECTRICAL SYMBOL LEGEND

SIMPLEX RECEPTACLE	DOWNLIGHT (CEILING MTD)	MOTOR	PAD MOUNTED UTILITY TRANSFORMER ####V, #PH, #W ### KVA
DUPLEX RECEPTACLE (WALL MTD)	WALL WASHER (CEILING MTD)	DISCONNECT SWITCH (NON-FUSED)	STANDBY/EMERGENCY GENERATOR ####V, #PH, #W ### KW, ### KVA
DUPLEX RECEPTACLE (FLOOR MTD)	SCONCE (WALL MTD, LINEAR)	DISCONNECT SWITCH	AUTOMATIC TRANSFER SWITCH ###A/BP
DUPLEX RECEPTACLE (CEILING MTD)	SCONCE (WALL MTD, ROUND)	DISCONNECT STARTER	DRY-TYPE TRANSFORMER
DUPLEX (SWITCHED)	SCONCE (WALL MTD, HALF ROUND)	THERMOSTAT	UTILITY METER
4-PLEX RECEPTACLE (WALL MTD)	SURFACE GLOBE	PANEL ('C' INDICATES PANEL NAME)	UTILITY METER & CT'S
4-PLEX RECEPTACLE (FLOOR MTD)	PENDANT (SMALL)	ELECTRIC VEHICLE CHARGING STATION	UTILITY METER (INTEGRAL)
4-PLEX RECEPTACLE (CEILING MTD)	PENDANT (LARGE)	TIME CLOCK WITH BATTERY	UTILITY METER & CT'S (INTEGRAL)
SPECIAL PURPOSE RECEPTACLE	PENDANT (LINEAR)	FIRE ALARM CONTROL PANEL	METER STACK
SPECIAL PURPOSE RECEPTACLE (FLOOR MTD)	CEILING FIXTURE	FIRE ALARM ANNUNCIATOR (REMOTE)	FUSED SWITCH (DIAGRAMMATIC)
JUNCTION BOX (WALL MTD)	CEILING FIXTURE (SURFACE/SUSPENDED)	FIRE ALARM HORN	CIRCUIT BREAKER (DIAGRAMMATIC)
JUNCTION BOX (FLOOR MTD)	STRIP FIXTURE (WALL MOUNTED)	FIRE ALARM STROBE	PULL OUT FUSED SWITCH (DIAGRAMMATIC)
JUNCTION BOX (CEILING MTD)	TRACK MOUNTED FIXTURE	FIRE ALARM STROBE/HORN	PANEL BOARD (DIAGRAMMATIC)
DATA OUTLET	POLE MOUNTED FIXTURE (SINGLE ARM)	FIRE ALARM PULL STATION	MAIN OCPD GROUND FAULT PROTECTION
DATA OUTLET (FLOOR MTD)	POLE MOUNTED FIXTURE (POST TOP)	FIRE/SMOKE DAMPER	FEEDER TAG
TELEPHONE OUTLET (WALL MTD)	EMERGENCY EGRESS FIXTURE	MAGNETIC DOOR HOLDER	FAULT CALCULATION NODE
TELEPHONE OUTLET (FLOOR MTD)	EXIT SIGN (SHADING INDICATES ILLUMINATED FACE(S))	SMOKE DETECTOR	
TELEPHONE/DATA OUTLET	CEILING FAN	FIRE ALARM HORN (RECESSED)	
TELEPHONE/DUPLEX OUTLET (FLOOR MTD)	IN-GRADE UPLIGHT	FIRE ALARM STROBE/HORN	
TELEPHONE/DATA/DUPLEX OUTLET (FLOOR MTD)	BOLLARD	FIRE ALARM PULL STATION	
SWITCH	SPOT LIGHT	FIRE ALARM ANNUNCIATOR (REMOTE)	
3-WAY SWITCH	STEP LIGHT	FIRE ALARM HORN (RECESSED)	
4-WAY SWITCH		FIRE ALARM STROBE/HORN	
DIMMER SWITCH		FIRE ALARM PULL STATION	
THERMAL OVERLOAD SWITCH		FIRE/SMOKE DAMPER	
CONTROLLING OUTLET OR FIXTURE ON SWITCH LEG 'a'		MAGNETIC DOOR HOLDER	
KEYED SWITCH		SMOKE DETECTOR	
MANUAL OVERRIDE SWITCH		FIRE ALARM HORN (RECESSED)	
PHOTOCELL		FIRE ALARM STROBE/HORN	
OCCUPANCY SENSOR (WALL MTD) WITH (1) INTEGRAL SWITCH		FIRE ALARM PULL STATION	
OCCUPANCY SENSOR (WALL MTD) WITH (2) INTEGRAL SWITCHES		FIRE ALARM ANNUNCIATOR (REMOTE)	
OCCUPANCY SENSOR (CEILING MTD)		FIRE ALARM HORN (RECESSED)	
OCCUPANCY SENSOR (CEILING MTD) WITH CORRIDOR SENSING PATTERN		FIRE ALARM STROBE/HORN	
DIGITAL LIGHTING CONTROL SOFT SWITCH 'X' REFERS TO CONTROL SCHEDULE ID#		FIRE ALARM PULL STATION	

CIRCUITING/CONDUIT LINETYPES

HOMERUN CIRCUIT, PANEL AND CIRCUIT NUMBER INDICATED	CONCEALED CONDUIT
UNDERGROUND/UNDERSLAB CONDUIT	EXPOSED CONDUIT
CONDUIT RUN TURNED DOWN	CONDUIT RUN TURNED UP
CONDUIT CONTINUATION MARK	CONDUIT STUB-OUT

NEW/EXISTING/DEMOLITION/FUTURE LINETYPES

NEW WORK	EXISTING WORK
DEMOLITION WORK	FUTURE WORK

LIGHTING FIXTURE NOTATION (EXAMPLE)

A1E INDICATES FIXTURE TYPE
 H1-12a DIAGONAL HATCH & 'E' SUFFIX INDICATE FIXTURE PROVIDED W/ EMERGENCY BATTERY BACKUP
 INDICATES CIRCUIT NUMBER, LOWERCASE LETTER INDICATES SWITCH LEG DESIGNATION

ABBREVIATIONS

x" x"	MOUNTING HEIGHT
A / AMP	AMPERE
AC	ABOVE COUNTER
AFF	ABOVE FINISHED FLOOR
AG	ABOVE COUNTER GFI DEVICE
AHU	AIR HANDLING UNIT
AIC	FAULT CURRENT CAPACITY
AL	ALUMINUM
C	CONDUIT
CLG	CEILING
CU	COPPER
CKT	CIRCUIT
CT	CURRENT TRANSFORMER
DYR	DRYER
DW	DISHWASHER
(E)	EXISTING
E.C.	ELECTRICAL CONTRACTOR
EF	EXHAUST FAN
EM	EMERGENCY
EWC	WATER COOLER
EXP	EXPLOSION PROOF
G	GROUND
GD	GARBAGE DISPOSER
GI	GROUND FAULT INTERRUPTER
HD	EXHAUST HOOD
HP	HORSEPOWER
MW	MICROWAVE
MDP	MAIN DISTRIBUTION PANELBOARD
MH	MANHOLE
MTD	MOUNTED
MVOLT	MULTI-VOLTAGE
N	NEUTRAL
NL	NITE LIGHTING
PH	PHASE
REF	REFRIGERATOR
RNG	RANGE
(RL)	RELOCATE(D)
RTU	ROOF TOP UNIT
TS	THERMAL SWITCH
TTB	TELEPHONE TERMINAL BOARD
UG	UNDERGROUND
V	VOLT
VA	VOLT-AMPERE
VFD	VARIABLE FREQUENCY DRIVE
W	WALL
WG	WEATHERPROOF GFI
WP	WEATHERPROOF
WRM	WARMING DRAWER
WSH	WASHER

CODES AND DESIGN CRITERIA

JURISDICTION	BENNETT, CO
ELECTRICAL CODE	2020 NEC
ENERGY CODE	2018 IECC
ELECTRIC UTILITY	CORE Electric

ELECTRICAL SHEET LIST

NUMBER	TITLE
E0.1	ELECTRICAL SPECS & LEGENDS
E0.2	ELECTRICAL ONE-LINE DIAGRAM
E0.3	ELECTRICAL PANEL SCHEDULES
E1.1	FLOOR PLANS - POWER DEMO
E2.1	FLOOR PLANS - POWER
E2.2	FLOOR PLANS - LIGHTING
E6.1	ELECTRICAL ENERGY CALCULATIONS

REVISION NAME	DATE

ISSUE DATE: 2023 06 19

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 JOB NO. 2303

E0.1

FAULT POINT	FAULT LOCATION	FAULT SOURCE POINT	SOURCE	E (VOLTS)	FEEDER PROPERTIES					CALCULATED		FAULT POINT	
					NO. SETS	WIRE SIZE	MATERIAL	C VALUE	LENGTH	f	M		Isc
F0	TRANSFORMER	UTILITY	INF	-	-	-	-	-	-	-	-	F0	
F1	CT CABINET	F0	22,600	208	2	#250	ALUMINUM	12862	30	0.219	0.820	22,600	F1
F2	MAIN DISC.	F1	18,533	208	2	#250	ALUMINUM	12122	3	0.019	0.981	18,533	F2
F3	PANEL P1	F2	18,185	208	2	#250	ALUMINUM	12122	10	0.062	0.941	17,116	F3
F4	PANEL P3	F3	5,555	208	1	#30	ALUMINUM	8826	90	0.472	0.679	3,775	F4
F5	-	-	TBD	0	0	NA	NA	NA	0	-	-	-	F5

C = CABLE CONDUCTANCE FACTOR
E = LINE TO LINE VOLTAGE
Vp = TRANSFORMER PRIMARY LINE TO LINE VOLTAGE
M = 1/(1+f)
f = 1.732 x L x Isc / (C x n x E)

Vs = TRANSFORMER SECONDARY LINE TO LINE VOLTAGE
Z = TRANSFORMER IMPEDANCE
Isc = AVAILABLE FAULT CURRENT (FROM SOURCE)
Isc = SHORT CIRCUIT CURRENT
* SERVICE TRANSFORMER Isc (AVAILABLE FAULT CURRENT) AS PUBLISHED BY UTILITY COMPANY
Isc = Vp x M x Isc/Vs

DRAWING NOTES:

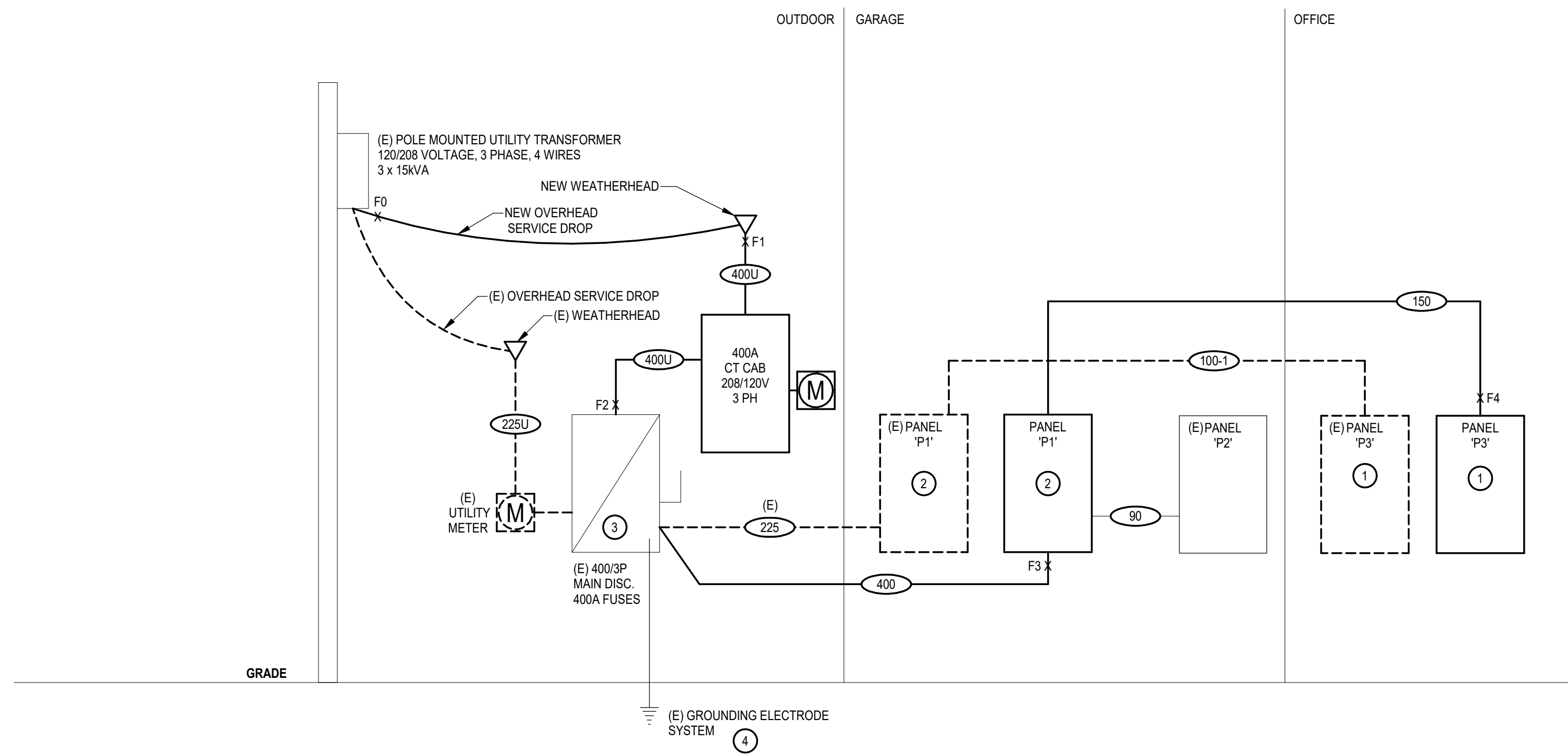
- EXISTING CONDITIONS ARE BASED ON A CURSORY SURVEY. CONTRACTOR TO VERIFY EXISTING CONDITIONS AND NOTIFY ENGINEER OF ANY DISCREPANCIES IMMEDIATELY.

KEY NOTES:

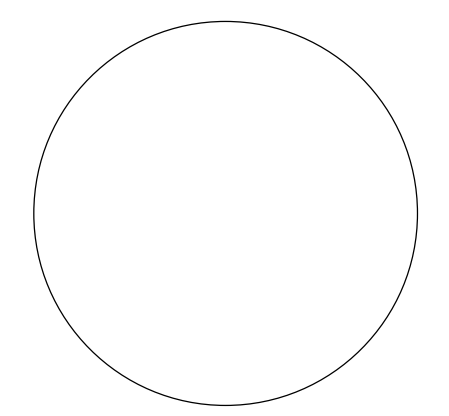
- EXISTING OFFICE PANEL SHALL BE REMOVED, DEMOLISHED, AND REPLACED WITH NEW PANEL IN A NEW LOCATION. PROVIDE NEW FEEDER TO NEW LOCATION AS INDICATED.
- EXISTING MAIN ELECTRICAL PANEL SHALL BE REMOVED, DEMOLISHED, AND REPLACED WITH NEW PANEL AT THE SAME LOCATION. PROVIDE NEW FEEDER AS INDICATED AND RECONNECT ALL EXISTING LOADS TO REMAIN AS INDICATED ON THE PANEL SCHEDULE.
- EXISTING MAIN DISCONNECT TO REMAIN. REPLACE EXISTING FUSES WITH NEW 400 AMP FUSES AND CONNECT TO NEW FEEDERS AS SHOWN.
- MAINTAIN EXISTING GROUNDING ELECTRODE SYSTEM CONNECTIONS. E.C. TO VERIFY EXISTING GROUNDING ELECTRODES MEET OR EXCEED THE FOLLOWING SIZES: #2 CU TO COLD WATER PIPE AND BUILDING STEEL, #4 TO UFER GROUND (IF AVAILABLE), #6 CU TO GROUND ROD (IF AVAILABLE). REPLACE EXISTING GROUNDING ELECTRODE CONDUCTORS IF SMALLER THAN THESE SIZES NOTED.

FEEDER SCHEDULE

400U	2 [(4 250 KCMIL AL) 2-1/2" PVC]
400	2 [(4 250 KCMIL AL + 1 #1 AWG AL G.) 2-1/2" PVC]
225U	(4 300 KCMIL AL) 2-1/2" PVC
225	(4 300 KCMIL AL + 1 #2 AWG AL G.) 2-1/2" PVC
150	(4 #3/0 AWG AL + 1 #4 AWG AL G.) 2" C.
100-1	(3 #1/0 AWG AL + 1 #6 AWG AL G.) 2" C.
90	(4 #2 AWG CU + 1 #8 AWG CU G.) 1-1/4" C.



1 ELECTRICAL ONE-LINE DIAGRAM
N.T.S.



REVISION NAME	DATE

ISSUE DATE: 2023.06.19

PANEL: P3		ENCLOSURE: NEMA 1										A.I.C. RATING: 10K	
VOLTAGE: 120/208 WYE		SUPPLY FROM: P1										MAINS TYPE: MLO	
PHASE: 3		MOUNTING: RECESSED										MAINS RATING: 150	
WIRES: 4												MCB RATING: -	
CIRCUIT DESCRIPTION	BKR RATING	BKR TYPE	CKT	A	B	C	CKT	BKR TYPE	BKR RATING	CIRCUIT DESCRIPTION			
RECEPTACLES ROOM	20	1	3	1260	720		2	1	20	RECEPTACLES			
RECEPTACLES	20	1	4		900	180		4	G	UNDER COUNTER REF.			
RECEPTACLES	20	1	5				6	1	20	LIGHTING - CONFERENCE / OFFICES			
HAND DRYER	20	1	G	1000	19		8	1	20	LIGHTING - RESTROOM SHOWER			
COPIER	20	1	9		180	190	10	1	20	LIGHTING - RESTROOM			
RECEPTACLES	20	1	11				12	1	20	LIGHTING - MEZZANINE			
RECEPTACLES ROOM	20	1	13	1620	1500		14	1	20	UH-1-1			
RECEPTACLES	20	1	15		1440	750	16	1	15	UH-2-2			
DISHWASHER	40	1	G	17			18	1	15	UH-2-1			
RECEPTACLES	20	1	19	1440	1500		20	1	20	UH-1-2			
RANGE	50	2	G	21		4000	22						
							24	1	20	EF-3			
MICROWAVE	20	1	G	25	1500	1411	26	1	20	FUR-1			
UNDER COUNTER FREEZER	20	1	G	27		180	28	1	20	FUR-2			
UNDERCOUNTER REF.	20	1	G	29			30	1	20	CUH-1			
DRYER	20	2	2	31	1250	3411	32	2	50	HP-1			
							34						
RECEPTACLES	20	1	35		1250	3411	36			HP-2			
RECEPTACLES STAFF CONFERENCE RM	20	1	37	900	3411		38						
RECEPTACLES	20	1	39		1080	1200	40	G	1	20	WASHER		
HAND DRYER	20	1	41				42	1	20	GWH-1 / CP-1			
TOTAL CONNECTED VOLT-AMPS PER PHASE				20942		16172							
PHASE IMBALANCE	LOAD CLASSIFICATION	LOAD	DF	DEMAND	PANEL TOTALS								
PHASE A	LIGHTING	323	125.00%	404	TOTAL CONN. LOAD (VA):	53816 VA							
PHASE B	RECEPTACLES	10820	75.23%	14910	TOTAL DEMAND (VA):	49340 VA							
PHASE C	MOTORS	2929	112.04%	3282	TOTAL CONN. LOAD (AMPS):	149 A							
	KITCHEN	0	0.00%	0	TOTAL DEMAND (AMPS):	137 A							
	MISCELLANEOUS	600	100.00%	600									
	ELECTRIC HEAT	6000	100.00%	6000									
	HVAC	13644	100.00%	13644									

LUMINAIRE SCHEDULE

TAG	MOUNTING	DESCRIPTION	MANUFACTURER	MODEL	VOLT	QTY	WATTS	SOURCE	TEMP	LUMENS	DIMMING	REMARKS
A8	PENDANT MOUNT	8" LINEAR	STARTREK	BEAMD-08-500-WD-3500K-U	120 V	1	40W	LED	3500K	4000		
A10	PENDANT MOUNT	10" LINEAR	STARTREK	BEAMD-10-500-WD-3500K-U	120 V	1	50W	LED	3500K	5000		
A12	PENDANT MOUNT	12" LINEAR	STARTREK	BEAMD-12-500-WD-3500K-U	120 V	1	60W	LED	3500K	6000		
B1	WALL MOUNTED	WALL SCONCE	WAC LIGHTING	WS-W43011-BK/AB	120 V	1	15W	LED	3000K	417		
B2	WALL MOUNTED	EXTERIOR WALL SCONCE	WAC LIGHTING	WS-W43011-BK/AB	120 V	1	15W	LED	3000K	417		
B3	CEILING (RECESSED)	6" RECESSED DOWNLIGHT	EVO GOTHAM	EVO6DLR	120 V	1	19.7W	LED	3500K	2000		
B4	WALL MOUNTED	EXTERIOR WALL PACK	LITHONIA LIGHTING	DSKW2 LED 20C 700 40K T4M MVOLT	120 V	1	71W	LED	4000K	7534		
B8	CEILING (SURFACE)	8" LINEAR	STARTREK	BEAMD-08-500-WD-3500K-U	120 V	1	40W	LED	3500K	4000		
C	WALL MOUNTED	VANITY	LITHONIA LIGHTING	FMVCSLS 24IN MVOLT	120 V	1	27W	LED	3000K	1550		
D1	CEILING (SURFACE)	48" LINEAR	LITHONIA LIGHTING	CLX-L48-SEF-FDL-MVOLT	120 V	1	31.8W	LED	4000K	5000		
D2	PENDANT MOUNT	48" LINEAR	LITHONIA LIGHTING	CLX-L48-SEF-FDL-MVOLT	120 V	1	31.8W	LED	4000K	5000		
D3	PENDANT MOUNT	96" LINEAR	LITHONIA LIGHTING	CLX-L96-SEF-FDL-MVOLT	120 V	1	63.7W	LED	4000K	10000		
D4	WALL MOUNTED	48" LINEAR	LITHONIA LIGHTING	CLX-L48-SEF-FDL-MVOLT	120 V	1	31.8W	LED	4000K	3000		
E1	CEILING (SUSPENDED)	HIGH BAY	LITHONIA LIGHTING	CPHB 18000LM SEF GCL WD MVOLT G210 50K	120 V	1	133W	LED	5000K	18000		
EM	WALL MOUNT 7'-6" AFF	DUAL HEAD EM EGRESS (INTERIOR)	LITHONIA LIGHTING	ELM2L	120 V	2	2.4W	LED	4000K	635		
EM2	WALL ABOVE DOOR, 8'-0" AFF	EXTERIOR EMERGENCY LIGHT	LITHONIA LIGHTING	AFF-PEL-DBLBXD-UVOLT-LTP-SDRT-WT-CW	120 V	1	20.39W	LED	4000K	635		
H1	CEILING (RECESSED)	4" RECESSED DOWNLIGHT	LITHONIA LIGHTING	LDN4 35/ 20 MVOLT	120 V	1	22.12W	LED	3500K	2000		
X1	WALL ABOVE DOOR 8'-0" AFF	SINGLE FACED EXIT SIGN	LITHONIA LIGHTING	LQM-S-W-3-G-120/277-EL-N	120 V	1	0.66W	LED				

MECHANICAL EQUIPMENT CONNECTIONS

GENERAL NOTES:
A. PROVIDE DISCONNECTING MEANS FOR EACH PIECE OF EQUIPMENT AS INDICATED IN THE 'DISC' COLUMN.

REMARKS:
1. INTERLOCK FAN WITH GARAGE EXHAUST CONTROL PANEL.
2. INTERLOCK FAN WITH LIGHTS IN ROOM.
3. FAN TO BE CONTROLLED BY A TIMECLOCK NEXT TO THE ELECTRICAL PANEL.

PLAN MARK	DESCRIPTION	VOLT	PHASE	ELECTRIC HEAT WATTS	SINGLE MOTOR		UNIT EQUIPMENT			OVERCURRENT PROTECTION				FEEDER	REMARKS
					WATTS	HP	WATTS	FLA	MCA	MOCPS	CB	DISC	FUSE		
RH-2	GAS-FIRED TUBE HEATER	120 V	1				150	1.25	2.3					[2#12AWG+1#12AWG GND 3/4" C]	
RH-1	GAS-FIRED TUBE HEATER	120 V	1				150	1.25	2.3					[2#12AWG+1#12AWG GND 3/4" C]	
HP-2	Split System Condensing Unit	208 V	1				26.24	32.8	50	50A2P	60A	50A		[3#6AWG CU, 1#10AWG CU, 1" C]	
HP-1	Split System Condensing Unit	208 V	1				26.24	32.8	50	50A2P	60A	50A		[3#6AWG CU, 1#10AWG CU, 1" C]	
GWH-1	GAS WATER HEATER	120 V	1					2		15A1P	HPRS			[2#12AWG+1#12AWG GND 3/4" C]	
GEF-2	EXHAUST FAN	120 V	1			1/2	1176	9.8	12.25	20A1P	HPRS			[2#12AWG+1#12AWG GND 3/4" C]	1
GEF-1	EXHAUST FAN	120 V	1				19	0.16	0.2	15A1P	HPRS			[2#12AWG+1#12AWG GND 3/4" C]	1
FUR-2	GAS-FIRED FURNACE	120 V	1				1416	11.8	14.7	20	20A1P	HPRS		[2#12AWG+1#12AWG GND 3/4" C]	
FUR-1	GAS-FIRED FURNACE	120 V	1				1416	11.8	14.7	20	20A1P	HPRS		[2#12AWG+1#12AWG GND 3/4" C]	
EF-3	EXHAUST FAN	120 V	1				78	0.65	0.81	15A1P	HPRS			[2#12AWG+1#12AWG GND 3/4" C]	
EF-2	EXHAUST FAN	120 V	1				19	0.16	0.2	15A1P	HPRS			[2#12AWG+1#12AWG GND 3/4" C]	3
EF-1	EXHAUST FAN	120 V	1				10	0.08	0.1	15A1P	HPRS			[2#12AWG+1#12AWG GND 3/4" C]	2
UH-2-1	ELECTRIC UNIT HEATER	120 V	1	750				6.3	7.8	15A1P	HPRS			[2#12AWG+1#12AWG GND 3/4" C]	
UH-2-2	ELECTRIC UNIT HEATER	120 V	1	750				6.3	7.8	15A1P	HPRS			[2#12AWG+1#12AWG GND 3/4" C]	
UH-1-1	ELECTRIC UNIT HEATER	120 V	1	1,500				12.5	15.6	20A1P	HPRS			[2#12AWG+1#12AWG GND 3/4" C]	
UH-1-2	ELECTRIC UNIT HEATER	120 V	1	1,500				12.5	15.6	20A1P	HPRS			[2#12AWG+1#12AWG GND 3/4" C]	
EUH-1	ELECTRIC UNIT HEATER	208 V	1	3,300			3,300	15.8	19.8	20A2P	30A			[2#12AWG+1#12AWG GND 3/4" C]	
CUH-1	ELECTRIC UNIT HEATER	120 V	1	1,500				8.3	10.4	15A1P	HPRS			[2#12AWG+1#12AWG GND 3/4" C]	
CP-1	CIRCULATION PUMP	120 V	1				84	0.7	0.9	15A1P	HPRS			[2#12AWG+1#12AWG GND 3/4" C]	

PANEL: (E) P2		ENCLOSURE: NEMA 1										A.I.C. RATING: MLO	
VOLTAGE: 120/208 WYE		SUPPLY FROM:										MAINS TYPE: MLO	
PHASE: 3		MOUNTING:										MAINS RATING: 100	
WIRES: 4												MCB RATING: -	
CIRCUIT DESCRIPTION	BKR RATING	BKR TYPE	CKT	A	B	C	CKT	BKR TYPE	BKR RATING	CIRCUIT DESCRIPTION			
BAY 2 LIFT (E)	20	1	--	0	0		2	--	1	20	WEST WALL RECEPTACLE (E)		
BAY 2 LIFT (E)	20	1	--	3			4	--	1	20	WEST WALL (E)		
SPARE	20	1	--	5			6	--	1	20	S. WALL RECEPT (E)		
WEST GATE OPENER (E)	20	1	--	7			8	--	1	--	SPACE		
SPACE	--	1	--	9			10	--	1	--	SPACE		
SPACE	--	1	--	11			12	--	1	--	SPACE		
TOTAL CONNECTED VOLT-AMPS PER PHASE				0	0	0							
PHASE IMBALANCE	LOAD CLASSIFICATION	LOAD	DF	DEMAND	PANEL TOTALS								
PHASE A	LIGHTING	0	0.00%	0	TOTAL CONN. LOAD (VA):	0 VA							
PHASE B	RECEPTACLES	0	0.00%	0	TOTAL DEMAND (VA):	0 VA							
PHASE C	MOTORS	0	0.00%	0	TOTAL CONN. LOAD (AMPS):	0 A							
	KITCHEN	0	0.00%	0	TOTAL DEMAND (AMPS):	0 A							
	MISCELLANEOUS	0	0.00%	0									
	ELECTRIC HEAT	0	0.00%	0									
	HVAC	0	0.00%	0									

MECHANICAL EQUIPMENT CONNECTIONS

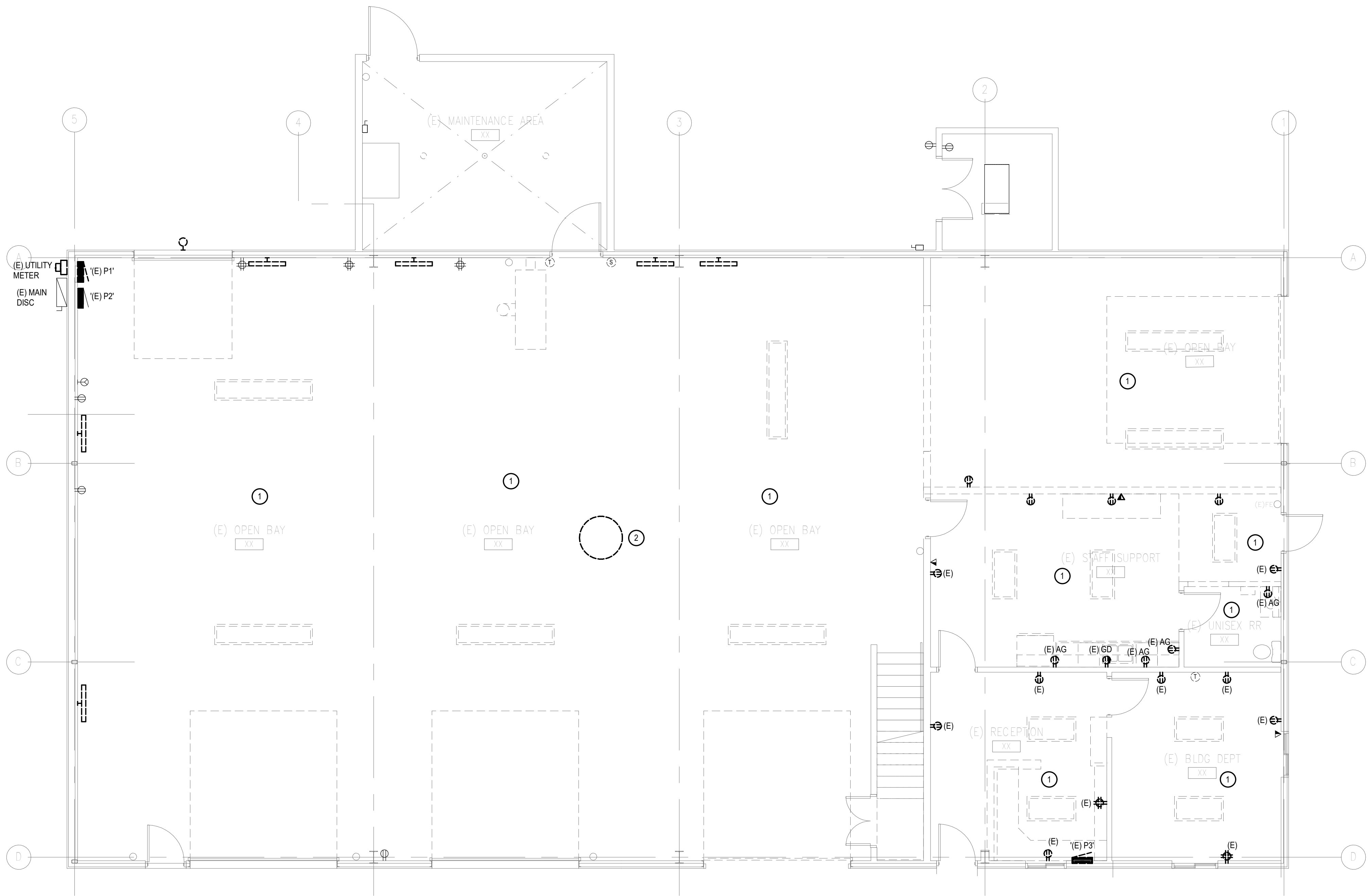
GENERAL NOTES:
A. PROVIDE DISCONNECTING MEANS FOR EACH PIECE OF EQUIPMENT AS INDICATED IN THE 'DISC' COLUMN.

REMARKS:
1. INTERLOCK FAN WITH GARAGE EXHAUST CONTROL PANEL.
2. INTERLOCK FAN WITH LIGHTS IN ROOM.
3. FAN TO BE CONTROLLED BY A TIMECLOCK NEXT TO THE ELECTRICAL PANEL.

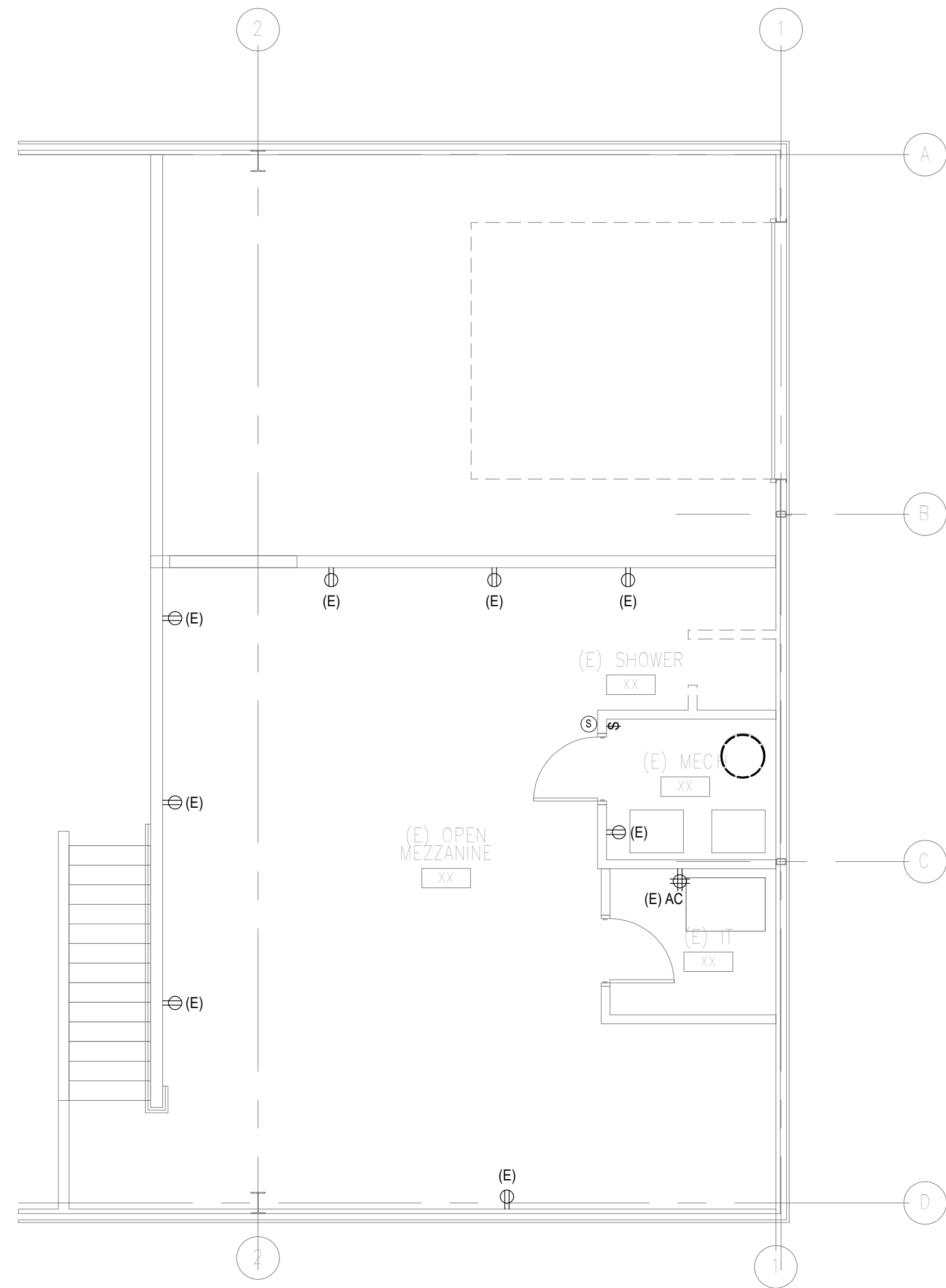
PLAN MARK	DESCRIPTION	VOLT	PHASE	ELECTRIC HEAT WATTS	SINGLE MOTOR		UNIT EQUIPMENT			OVERCURRENT PROTECTION				FEEDER	REMARKS
					WATTS	HP	WATTS	FLA	MCA	MOCPS	CB	DISC	FUSE		
RH-2	GAS-FIRED TUBE HEATER	120 V	1				150	1.25	2.3					[2#12AWG+1#12AWG GND 3/4" C]	
RH-1	GAS-FIRED TUBE HEATER	120 V	1				150	1.25	2.3					[2#12AWG+1#12AWG GND 3/4" C]	
HP-2	Split System Condensing Unit	208 V	1				26.24	32.8	50	50A2P	60A	50A		[3#6AWG CU, 1#10AWG CU, 1" C]	
HP-1	Split System Condensing Unit	208 V	1				26.24	32.8	50	50A2P	60A	50A		[3#6AWG CU, 1#10AWG CU, 1" C]	
GWH-1	GAS WATER HEATER	120 V	1					2		15A1P	HPRS			[2#12AWG+1#12AWG GND 3/4" C]	
GEF-2	EXHAUST FAN	120 V	1			1/2	1176	9.8	12.25	20A1P	HPRS			[2#12AWG+1#12AWG GND 3/4" C]	1
GEF-1	EXHAUST FAN	120 V	1				19	0.16	0.2	15A1P	HPRS			[2#12AWG+1#12AWG GND 3/4" C]	1
FUR-2	GAS-FIRED FURNACE	120 V	1				1416	11.8	14.7	20	20A1P	HPRS		[2#12AWG+1#12AWG GND 3/4" C]	
FUR-1	GAS-FIRED FURNACE	120 V	1				1416	11.8	14.7	20	20A1P	HPRS		[2#12AWG+1#12AWG GND 3/4" C]	
EF-3	EXHAUST FAN	120 V	1				78	0.65	0.81	15A1P	HPRS			[2#12AWG+1#12AWG GND 3/4" C]	
EF-2	EXHAUST FAN	120 V	1				19	0.16	0.2	15A1P	HPRS			[2#12AWG+1#12	

- DRAWING NOTES:**
1. VERIFY DEMOLITION COPE WITH ARCHITECT, OWNER, AND OTHER TRADE PRIOR TO BEGINNING OF WORK.
 2. ALL ABANDONED CONDUIT AND CIRCUIT AND CONDUCTORS SHALL BE DEMOLISHED BACK TO PANEL. TURN UNUSED CIRCUIT BREAKERS TO "OFF" POSITION AND MARK AS "SPARE" ON PANEL SCHEDULE.
 3. MAINTAIN EXISTING WIRING/CIRCUITING TO ALL EXISTING DEVICES SHOWN ON THIS PLAN AS REQUIRED. ALL OTHER EXISTING DEVICES, OUTLETS, AND ASSOCIATED CONDUITS AND WIRING RENDERED UNUSED BY THIS PROJECT SHALL BE REMOVED BACK TO SOURCE ELECTRICAL PANEL OR NEAREST REMAINING OUTLET OR DEVICE. WHERE REMOVAL OF EXISTING WIRING INTERRUPTS ELECTRICAL CONTINUITY OF CIRCUITS WHICH ARE TO REMAIN IN USE, FURNISH AND INSTALL NECESSARY WIRES, CONDUITS, JUNCTION BOXES, ETC. TO ENSURE ELECTRICAL CONTINUITY.
 4. COORDINATE DISPOSAL OR STORAGE OF REMOVED FIXTURES WITH OWNER.
 5. EXISTING AND RELOCATED ELECTRICAL DEVICES SHALL BE CLEANED AND RESTORED TO LIKE NEW CONDITION. ENSURE DEVICES ARE FULLY FUNCTIONAL AND, IF NOT, REPLACED WITH NEW.
 6. ALL EXISTING LIGHTING AND LIGHTING CONTROLS AND ASSOCIATED CONDUIT AND WIRE SHALL BE REMOVED BACK TO PANEL, UNLESS NOTED OTHERWISE.

- KEY NOTES:**
- 1 DISCONNECT AND REMOVE EXISTING LIGHTING FIXTURES. REMOVE CONDUIT AND CONDUCTORS TO NEAREST JUNCTION BOX ABOVE CEILING. PREPARE FOR CONNECTION TO NEW LIGHTING DEVICES.
 - 2 RELOCATE EXISTING FAN. EXTEND THE WIRING. CONDUIT CONDUCTORS TO NEW MOUNTING LOCATION AS REQUIRED. CONNECT TO EXISTING CIRCUIT AND CONTROLS.



1 LEVEL 1 FLOOR PLAN - POWER DEMO
3/16" = 1'-0"



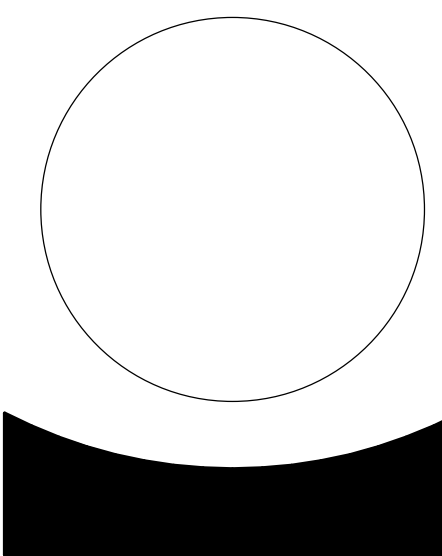
2 MEZZANINE LEVEL PLAN - POWER DEMO
3/16" = 1'-0"

ALLRED & ASSOCIATES

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REVISION NAME	DATE

ISSUE DATE: 2023.06.19

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FLOOR PLANS - POWER DEMO

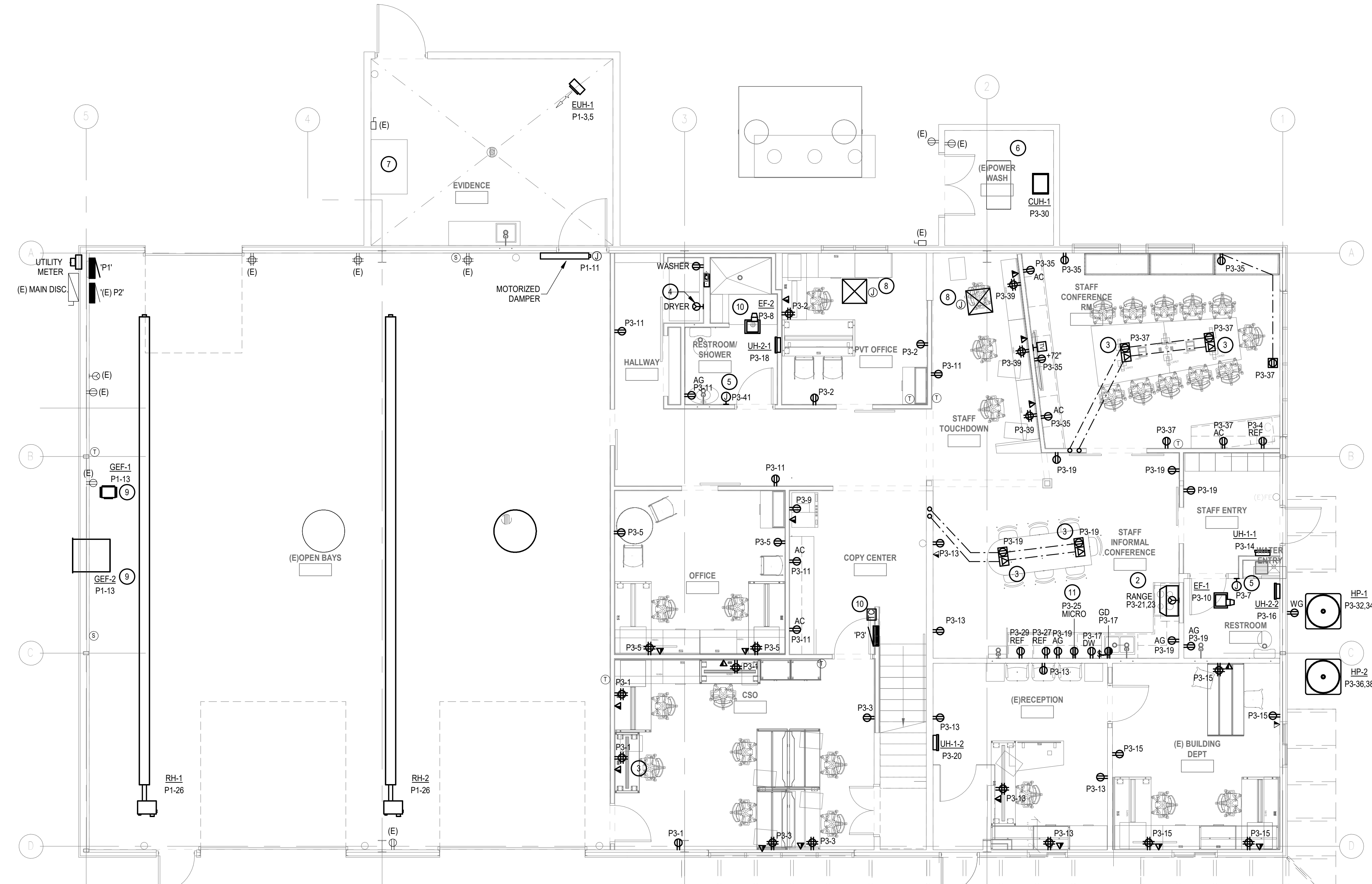
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GENERAL NOTES:

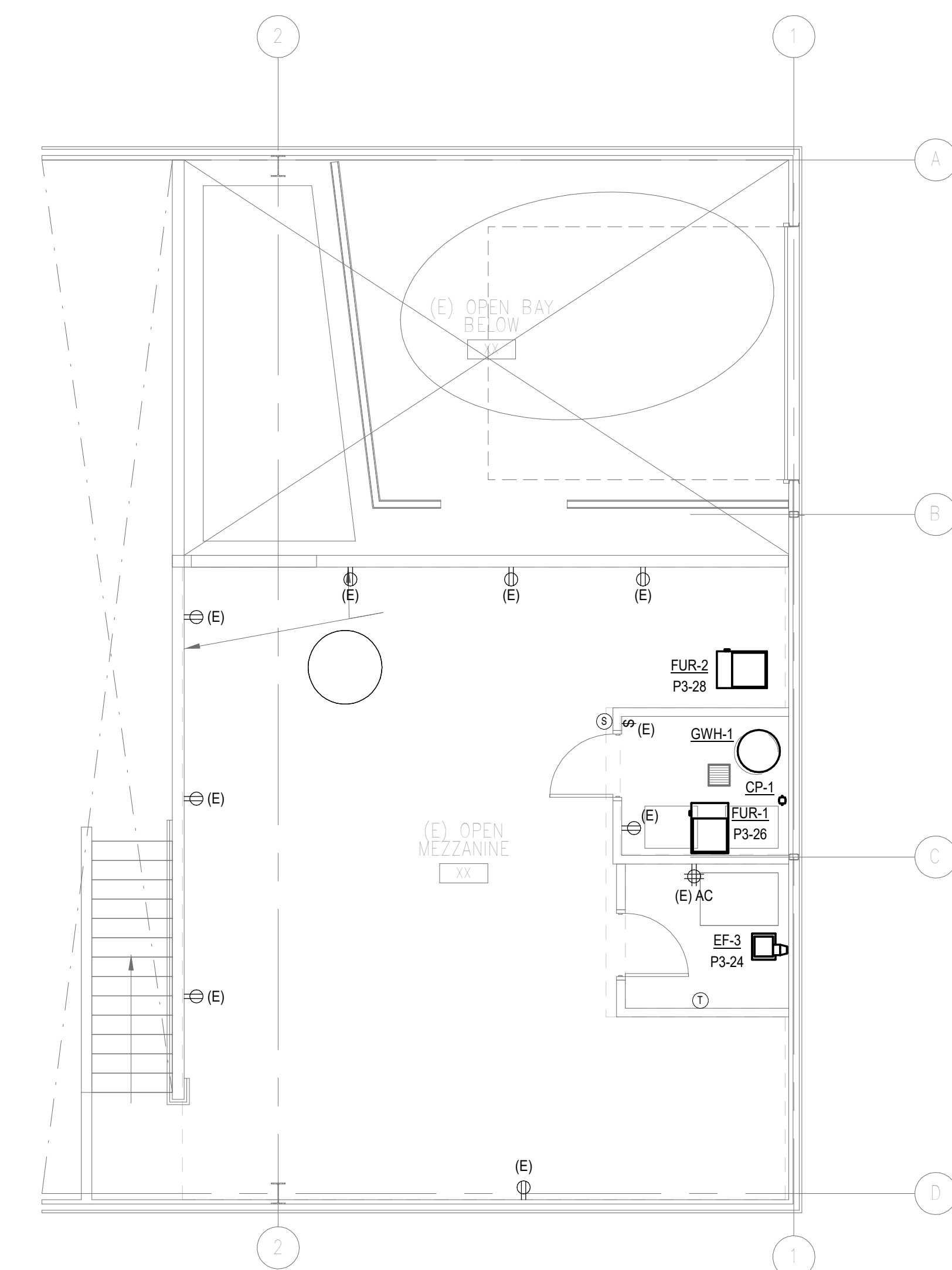
1. WIRE SIZE SHALL BE MINIMUM #10 AWG FOR EXTERIOR LIGHTING AND SIGN CIRCUITS. THIN SOLID COPPER UNLESS OTHERWISE NOTED. PROVIDE GROUND WIRE WHERE REQUIRED BY CODE. INCREASE WIRE SIZE TO COMPENSATE FOR VOLTAGE DROP WHERE TOTAL LENGTH OF ANY BRANCH EXCEEDS 200 FEET. ALL WIRING SHALL BE IN APPROVED RACEWAY.
2. ALL OUTLETS AND EQUIPMENT SHALL BE CIRCUITED TO PANEL AS NOTED. NUMBERS INDICATE CIRCUITING.
3. ALL EXTERIOR MOUNTED RECEPTACLES, JUNCTION BOXES AND CONDUIT SHALL BE WEATHERPROOF.
4. PROVIDE AUTOMATIC RECEPTACLE CONTROLS IN ALL ENCLOSED OFFICES, CONFERENCE ROOMS, BREAKROOMS AND OPEN OFFICE AREAS. AUTOMATIC CONTROLS SHALL CONSIST OF SPLIT CONTROLLED RECEPTACLES WITH THE TOP HALF OF EACH RECEPTACLE BEING CONTROLLED BY AN OCCUPANCY SENSOR IN THE ROOM / AREA. PROVIDE PERMANENT MARKING ON ALL RECEPTACLES WITH AUTOMATIC CONTROL.

KEY NOTES:

- 1 PROVIDE FLUSH FLOOR MOUNTED COMBINATION DATA AND DUPLEX RECEPTACLE WITH (1) 3/4" FOR POWER AND (1) 1" FOR DATA BACK TO WALL AS SHOWN.
- 2 PROVIDE NEMA 14-50R RECEPTACLE FOR RANGE WITH 3/8" CU, #10 CU G., 1" C. BACK TO PANEL.
- 3 TO AVOID SAW CUTTING THE FLOOR, PROVIDE SURFACE FLOOR MOUNTED COMBINATION DATA AND QUADRUPLUX RECEPTACLE WITH 1" C. FOR POWER AND 1-1/4" C. FOR DATA UP TO ACCESSIBLE CEILING SPACE. CONDUITS ARE OVERSIZED FOR POTENTIAL FUTURE CONVERSION TO ELECTRIFIED FEED.
- 4 PROVIDE RECEPTACLE TYPE NEMA 14-30R WITH WIRE SIZE 3/10, #10 G., 3/4" C.
- 5 PROVIDE JUNCTION BOX FOR HAND DRYER. COORDINATE WITH ARCHITECT FOR EXACT LOCATION BEFORE ROUGH-IN.
- 6 EXISTING POWER WASH EQUIPMENT AND ALL ELECTRICAL CONNECTIONS AND CIRCUITS TO REMAIN.
- 7 EXISTING AIR COMPRESSOR AND ALL ELECTRICAL CONNECTIONS AND CIRCUITS TO REMAIN.
- 8 PROVIDE ELECTRICAL CONNECTION FOR ALL VAV CONTROLLERS IN THE AREA TO CIRCUIT NOTED. COORDINATE EXACT CONNECTION REQUIREMENTS WITH MECHANICAL CONTRACTOR.
- 9 FAN SHALL BE INTERLOCKED WITH GARAGE EXHAUST CONTROL PANEL. REFER TO DETAIL 3MS.2 FOR ADDITIONAL INFORMATION AND PROVIDE INTERLOCK WIRING AS REQUIRED.
- 10 PROVIDE 24/7/365 TIMELOCK TO CONTROL EXHAUST FAN EF-2.
- 11 PROVIDE RECEPTACLE FOR MICROWAVE. COORDINATE WITH ARCHITECT FOR EXACT MOUNTING HEIGHT.



1 LEVEL 1 FLOOR PLAN - POWER
3/16" = 1'-0"



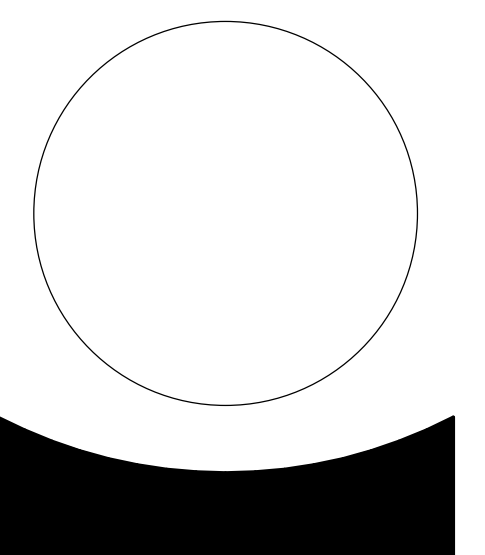
2 MEZZANINE LEVEL PLAN - POWER
3/16" = 1'-0"

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REVISION NAME	DATE

ISSUE DATE: 2023.06.19

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Given Project # 23059

FLOOR PLANS - POWER

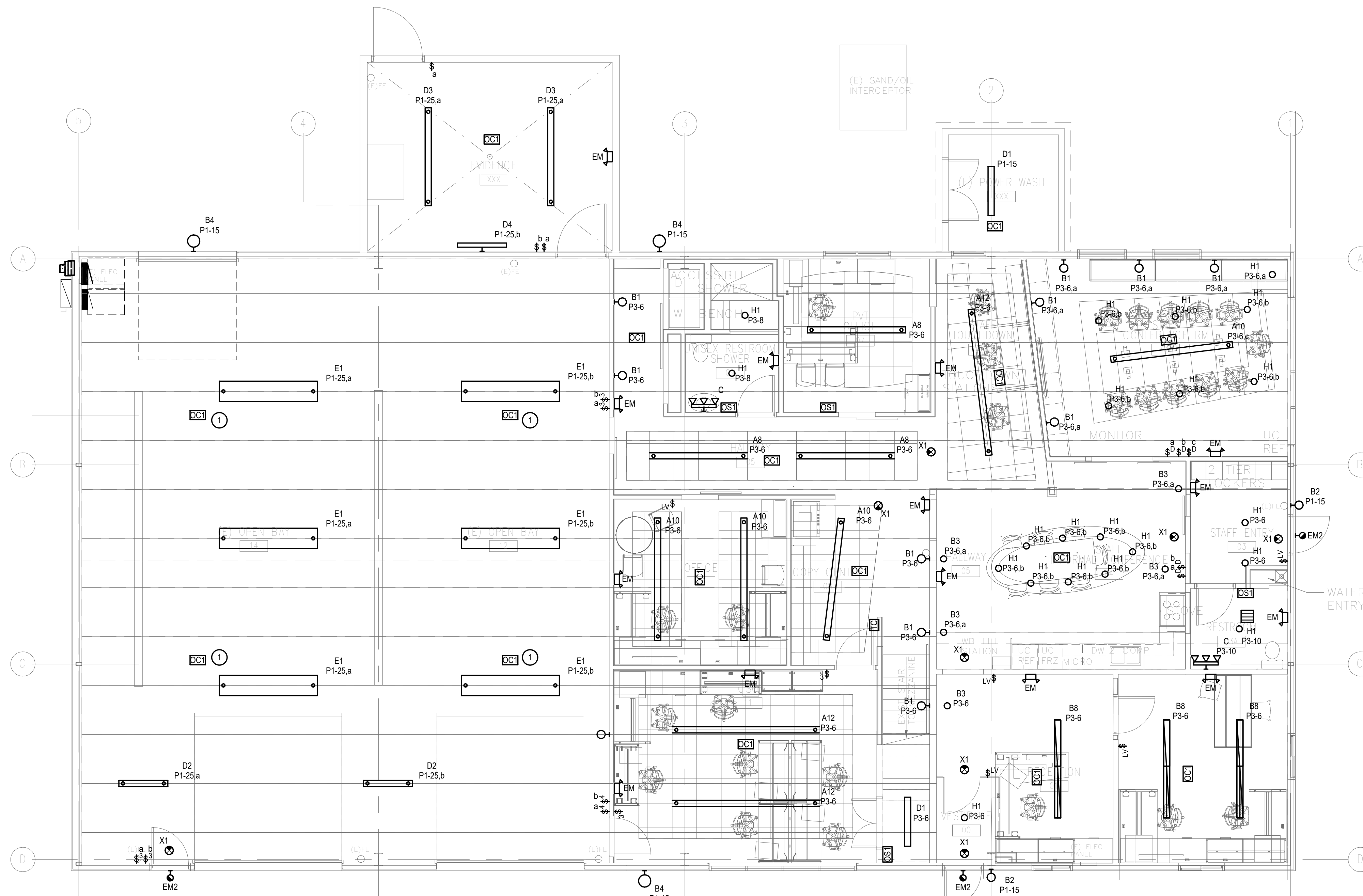
E2.1

DRAWING NOTES:

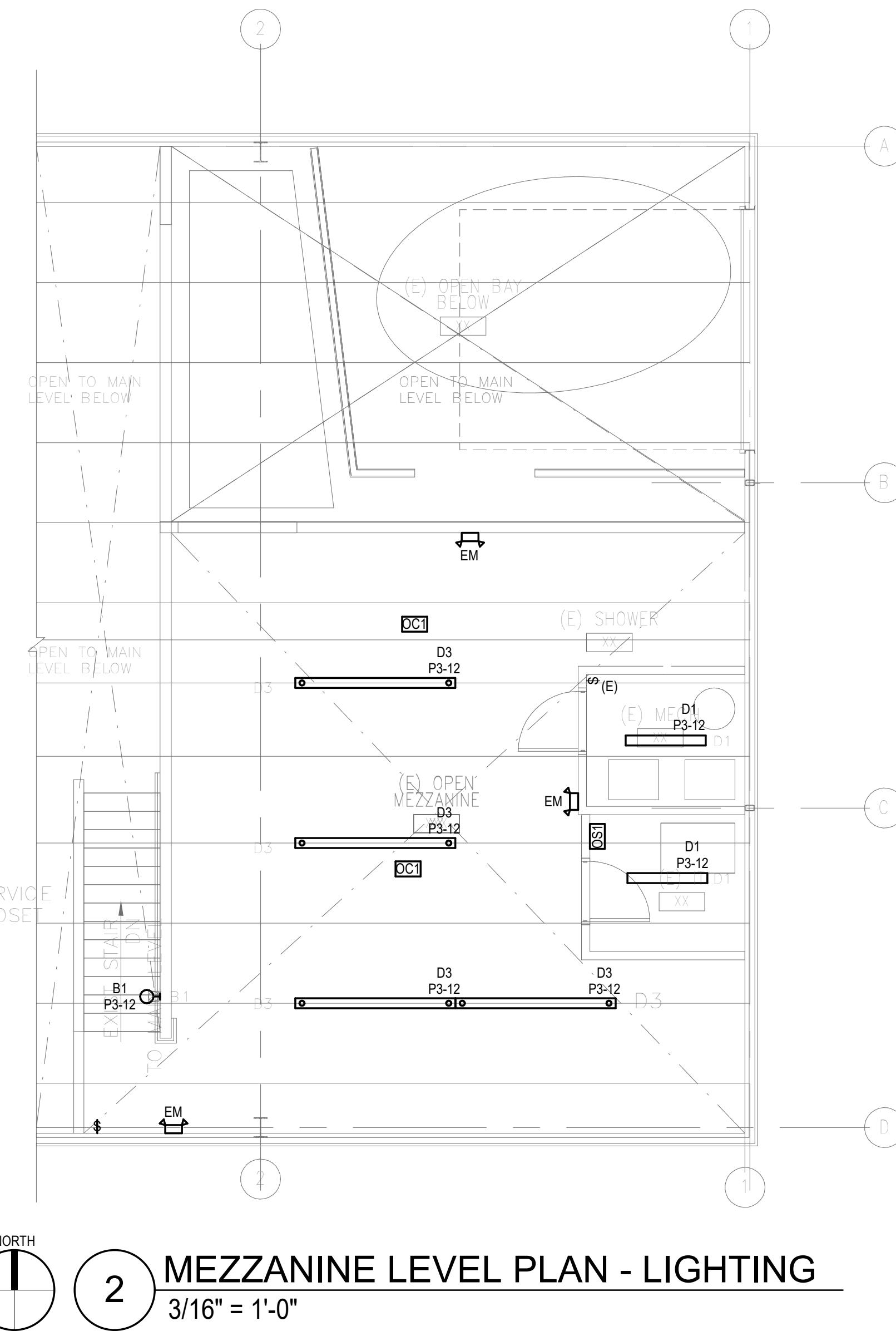
1. WIRE SIZE SHALL BE MINIMUM #12 AWG, THWN SOLID COPPER UNLESS OTHERWISE NOTED. PROVIDE GROUND WIRE WHERE REQUIRED BY CODE. INCREASE WIRE SIZE TO COMPENSATE FOR VOLTAGE DROP WHERE TOTAL LENGTH OF ANY BRANCH EXCEEDS 100 FEET. ALL WIRING SHALL BE IN APPROVED RACEWAY.
2. ALL LIGHTING SHALL BE CIRCUITED TO PANEL AS NOTED ON DRAWINGS. NUMBERS INDICATE CIRCUIT, LOWER CASE LETTERS UBDUCATE SWITCHING ZONE.
3. ALL EXIT SIGNS AND EGRESS LIGHTS SHALL BE CONNECTED TO LIGHTING CIRCUIT IN AREA AND WIRED TO AN UN-SWITCHED HOT LEG.
4. COORDINATE LIGHT FIXTURE MOUNTING WITH OTHER CEILING MOUNTED EQUIPMENT. VERIFY EQUIPMENT LOCATIONS WITH MECHANICAL, PLUMBING AND ARCHITECT DRAWINGS.
5. ALL EXISTING EXTERIOR LIGHTING SHALL REMAIN, UNLESS NOTED OTHERWISE.

KEY NOTES:

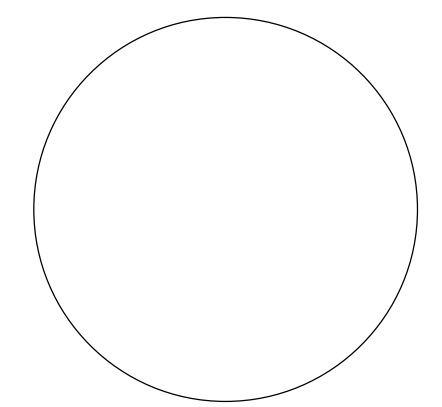
- 1 LOW VOLTAGE HIGH BAY OCCUPANCY SENSOR SHALL TURN LIGHT FIXTURES OFF AFTER 20 MINUTES OF THE ROOM BECOMING VACANT. SENSOR LOCATION FOR REFERENCE ONLY. COORDINATE SENSOR LOCATIONS WITH LIGHTING CONTROLS REPRESENTATIVE PRIOR TO ROUGH-IN.



1 LEVEL 1 FLOOR PLAN - LIGHTING
3/16" = 1'-0"



2 MEZZANINE LEVEL PLAN - LIGHTING
3/16" = 1'-0"



REVISION NAME	DATE

ISSUE DATE: 2023.06.19

COMcheck Software Version 4.1.5.5
Interior Lighting Compliance Certificate

Project Information

Energy Code: 2018 IECC
 Project Title: Alteration
 Project Type: Alteration

Construction Site: Owner/Agent: Designer/Contractor:

Allowed Interior Lighting Power

A Area Category	B Floor Area (ft ²)	C Allowed Watts / ft ²	D Allowed Watts (B X C)
1-Offices (Common Space Types:Office - Enclosed)	1113	0.93	1035
2-Conference Rooms (Common Space Types:Conference/Meeting/Multipurpose)	645	1.07	690
3-Restrooms (Common Space Types:Restrooms)	131	0.85	111
4-Work stations (Common Space Types:Office - Open Plan)	151	0.81	122
5-Copy Center (Common Space Types:Copy/Print Room)	147	0.56	82
6-Corridor (Common Space Types:Corridor/Transition <8 ft wide)	289	0.66	191
7-Open Bay (Warehouse Storage:Medium/Bulky/Pallet Material)	2121	0.35	742
8-Evidence (Warehouse Storage:Smaller, Hand-Carried Items)	308	0.69	213
9-Power Wash (Common Space Types:Storage >=50 - <=1000 sq.ft.)	86	0.46	40
Total Allowed Watts =			3226

Proposed Interior Lighting Power

A Fixture ID : Description / Lamp / Wattage Per Lamp / Ballast	B Lamps/ Fixture	C # of Fixtures	D Fixture Watt.	E (C X D)
Offices (Common Space Types:Office - Enclosed 1113 sq.ft.)				
LED 1: A8: 8' LINEAR: LED Linear 33W:	1	1	40	40
LED 2: A10: 10' LINEAR: LED Linear 33W:	1	2	40	80
LED 3: A12: 12' LINEAR: LED Linear 33W:	1	2	40	80
LED 4: B8: 8' LINEAR: LED Linear 33W:	1	3	40	120
LED 17: B3: 6" DOWNLIGHT: Other:	1	1	20	20
Conference Rooms (Common Space Types:Conference/Meeting/Multipurpose 645 sq.ft.)				
LED 5: H1: 4" RECESSED DOWNLIGHT: Other:	1	15	22	330
LED 6: A10: 10' LINEAR: LED Linear 33W:	1	1	40	40
LED 7: B1: WALL SCONCE: Other:	1	5	40	200
LED 16: B3: 6" DOWNLIGHT: Other:	1	4	20	79
Restrooms (Common Space Types:Restrooms 131 sq.ft.)				
LED 8: H1: 4" RECESSED DOWNLIGHT: Other:	1	3	22	66
LED 9: C: VANITY: LED Other Fixture Unit 28W:	1	2	27	54
Work stations (Common Space Types:Office - Open Plan 151 sq.ft.)				
LED 10: A12: 12' LINEAR: LED Linear 33W:	1	1	40	40
Copy Center (Common Space Types:Copy/Print Room 147 sq.ft.)				
LED 11: A10: 10' LINEAR: LED Linear 33W:	1	1	40	40

Project Title: G:\A-jobs\Bennett Public Works Bldg Remodel - 23059\Engrfile\Electrical\COMcheck\Bennett Public Works Bldg Remodel_Electrical COMcheck.cck Page 1 of 7 Report date: 06/20/23

Section # & Req.ID	Rough-In Electrical Inspection	Complies?	Comments/Assumptions
C405.2.2 [EL22]²	Spaces required to have light-suction controls have a manual control that allows the individual to reduce the connected lighting load in a reasonably uniform illumination pattern >= 50 percent.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	
C405.2.1 [EL18]¹	Occupancy sensors installed in classrooms/lecture/training rooms, conference/meeting/multipurpose rooms, copy/print rooms, lounges/breakrooms, enclosed offices, open plan office areas, restrooms, storage rooms, locker rooms, warehouse storage areas, and other spaces <= 300 sqft that are enclosed by floor-to-ceiling height partitions. Reference section language C405.2.1.2 for control function in warehouses and section C405.2.1.3 for open plan office spaces.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	
C405.2.1 [EL19]¹	Occupancy sensors control function in warehouses; in warehouses, the lighting in aiseways and open areas is controlled with occupant sensors that automatically reduce lighting power by 50% or more when the areas are unoccupied. The occupant sensors control lighting in each aisleway independently and do not control lighting beyond the aisleway being controlled by the sensor.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	
C405.2.1 [EL20]¹	Occupant sensor control function in open plan office areas: Occupant sensor controls in open office spaces >= 300 sq.ft. have controls 1) configured so that general lighting can be controlled separately in control zones with floor areas <= 600 sq.ft. within the space, 2) automatically turn off general lighting in all control zones within 20 minutes after all occupants have left the space, 3) are configured so that general lighting power in each control zone is reduced by >= 80% of the full zone general lighting power within 20 minutes of all occupants leaving that control zone, and 4) are configured such that any daylight responsive control will activate space general lighting or control zone general lighting only when occupancy for the same area is detected.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	
C405.2.2 [EL21]²	Each area not served by occupancy sensors (per C405.2.1) have time-switch controls and functions detailed in sections C405.2.2.1 and C405.2.2.2.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	

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

Project Title: G:\A-jobs\Bennett Public Works Bldg Remodel - 23059\Engrfile\Electrical\COMcheck\Bennett Public Works Bldg Remodel_Electrical COMcheck.cck Page 4 of 7 Report date: 06/20/23

Fixture ID : Description / Lamp / Wattage Per Lamp / Ballast	B Lamps/ Fixture	C # of Fixtures	D Fixture Watt.	E (C X D)
LED 12: B1: WALL SCONCE: Other:	1	2	40	80
Corridor (Common Space Types:Corridor/Transition <8 ft wide 289 sq.ft.)				
LED 13: A8: 8' LINEAR: LED Linear 33W:	1	2	40	80
LED 14: B1: WALL SCONCE: Other:	1	2	40	80
Open Bay (Warehouse Storage:Medium/Bulky/Pallet Material 2121 sq.ft.)				
LED 15: E1: HIGH BAY: LED Other Fixture Unit 125W:	1	6	133	798
LED 16: D2: 48" LINEAR: LED Linear 33W:	1	2	32	64
Evidence (Warehouse Storage:Smaller, Hand-Carried Items 308 sq.ft.)				
LED 19: D3: 96" LINEAR: Other:	1	2	64	127
LED 20: D4: 48" LINEAR: LED Linear 33W:	1	1	32	32
Power Wash (Common Space Types:Storage >=50 - <=1000 sq.ft. 86 sq.ft.)				
LED 21: D1: 48" LINEAR: LED Linear 33W:	1	1	32	32
Total Proposed Watts =				2481

Interior Lighting PASSES

Interior Lighting Compliance Statement

Compliance Statement: The proposed interior lighting alteration project represented in this document is consistent with the building plans, specifications, and other calculations submitted with this permit application. The proposed interior lighting systems have been designed to meet the 2018 IECC requirements in COMcheck Version 4.1.5.5 and to comply with any applicable mandatory requirements listed in the Inspection Checklist.

Name - Title Signature Date

Project Title: G:\A-jobs\Bennett Public Works Bldg Remodel - 23059\Engrfile\Electrical\COMcheck\Bennett Public Works Bldg Remodel_Electrical COMcheck.cck Page 2 of 7 Report date: 06/20/23

Section # & Req.ID	Rough-In Electrical Inspection	Complies?	Comments/Assumptions
C405.2.3 [EL23]²	Daylight zones provided with individual controls that control the lights independent of general area lighting. See code section C405.2.3 Daylight-responsive controls for applicable spaces, C405.2.3.1 Daylight responsive control function and section C405.2.3.2 Sidelit zone.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	
C405.2.4 [EL26]¹	Separate lighting control devices for specific uses installed per approved lighting plans.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	
C405.2.4 [EL27]¹	Additional interior lighting power allowed for special functions per the approved lighting plans and is automatically controlled and separated from general lighting.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	
C405.3 [EL6]¹	Exit signs do not exceed 5 watts per face.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	
C405.6 [EL26]²	Low-voltage dry-type distribution electric transformers meet the minimum efficiency requirements of Table C405.6.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	
C405.7 [EL27]²	Electric motors meet the minimum efficiency requirements of Tables C405.7(1) through C405.7(4). Efficiency verified through certification under an approved certification program or the equipment efficiency ratings shall be provided by motor manufacturer (where certification programs do not exist).	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	
C405.8.2 [EL28]²	Escalators and moving walks comply with ASME A17.1/CSA B44 and have automatic controls configured to reduce speed to the minimum permitted speed in accordance with ASME A17.1/CSA B44 or applicable local code when not conveying passengers.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	
C405.9 [EL29]²	Total voltage drop across the combination of feeders and branch circuits <= 3%.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	

Additional Comments/Assumptions:

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

Project Title: G:\A-jobs\Bennett Public Works Bldg Remodel - 23059\Engrfile\Electrical\COMcheck\Bennett Public Works Bldg Remodel_Electrical COMcheck.cck Page 5 of 7 Report date: 06/20/23

COMcheck Software Version 4.1.5.5
Inspection Checklist

Energy Code: 2018 IECC

Requirements: 0.0% were addressed directly in the COMcheck software. Text in the "Comments/Assumptions" column is provided by the user in the COMcheck Requirements screen. For each requirement, the user certifies that a code requirement will be met and how that is documented, or that an exception is being claimed. Where compliance is itemized in a separate table, a reference to that table is provided.

Section # & Req.ID	Plan Review	Complies?	Comments/Assumptions
C103.2 [PR4]¹	Plans, specifications, and/or calculations provide all information with which compliance can be determined for the interior lighting and electrical systems and equipment and document where exceptions to the standard are claimed. Information provided should include interior lighting power calculations, wattage of bulbs and ballasts, transformers and control devices.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	

Additional Comments/Assumptions:

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

Project Title: G:\A-jobs\Bennett Public Works Bldg Remodel - 23059\Engrfile\Electrical\COMcheck\Bennett Public Works Bldg Remodel_Electrical COMcheck.cck Page 3 of 7 Report date: 06/20/23

Section # & Req.ID	Final Inspection	Complies?	Comments/Assumptions
C303.3 [F17]²	Furnished O&M instructions for systems and equipment to the building owner or designated representative.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	
C405.4.1 [F18]¹	Interior installed lamp and fixture lighting power is consistent with what is shown on the approved lighting plans, demonstrating proposed watts are less than or equal to allowed watts.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	See the Interior Lighting fixture schedule for values.
C408.1.1 [F157]¹	Building operations and maintenance documents will be provided to the owner. Documents will cover manufacturers' information, specifications, programming procedures and means of illustrating to owner how building, equipment and systems are intended to be installed, maintained, and operated.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	
C408.2.5 [F16]²	Furnished as-built drawings for electric power systems within 90 days of system acceptance.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	
C408.3 [F133]¹	Lighting systems have been tested to ensure proper calibration, adjustment, programming, and operation.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	

Additional Comments/Assumptions:

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

Project Title: G:\A-jobs\Bennett Public Works Bldg Remodel - 23059\Engrfile\Electrical\COMcheck\Bennett Public Works Bldg Remodel_Electrical COMcheck.cck Page 6 of 7 Report date: 06/20/23

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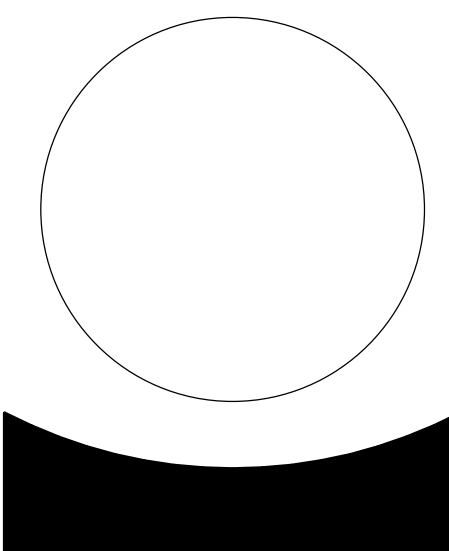
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REVISION NAME	DATE

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E6.1