

WALL SYMBOL SCHEDULE

NOTE: NOT ALL SYMBOLS MAY APPLY TO THIS SHEET

EXISTING WALL TO BE DEMOLISHED (INTERIOR AND EXTERIOR CONDITIONS)

REMOVE ALL SECTIONS OF WALL INCLUDING PLATES AND PLATE ANCHORAGE. PATCH AREAS OF REMOVED TOP PLATE WITH NECESSARY BLOCKING AND GYSPUM BOARD TO RECIEVE NEW FINISH

EXISTING WALL TO REMAIN (INTERIOR AND EXTERIOR CONDITIONS)

NEW FRAMED WALL — 2x4 DF @ 16" OC #1 OR BETTER STUDS AND PLATE, SECURE PLATE TO SLAB WITH POWDER ACCUATED FASTENER AT 30" OC MAX. WHERE WALLS RUN PARALLEL WITH CEILING FRAMING PROVIDE 2x4 CROSS BLOCKING AT 30" OC. MAX. FULL R—13 BATT INSULATION (FOR SOUND) WITH 1/2" GYPSUM BOARD OVER. SEE OTHER NOTES FOR FINISH, PAINT, BASE, ETC.

DEMOLITION FLOOR PLAN

GENERAL DEMOLITION NOTES

- 1. GYPSUM BOARD (EXCEPT WHERE REQUIRED TO BE PATCHED), PAINT, FLOORING AND TRIM IN (E) IT, (E) MECH. AND (E) JAN TO REMAIN. SEE MEP FOR SCHEDULED WORK IN THESE ROOMS CONCEPT IS TO LEAVE ROOMS 'AS IS' UNLESS OTHERWISE NOTED
- 2. MAJOR OBJECTIVE OF THIS PROJECT IS TO UPDATE ALL ELECTRICAL (LIGHTS, SWITCHES, OUTLETS) SERVICE. DEMOLISH ALL ELECTRICAL WALL OUTLETS AND SWITCHES, PATCH TO PREPARE FOR NEW FINISH (NOTE: THIS IS THE BASIS OF THE BID, DURING CONSTRUCTION CONTRACTOR AND UNIVERSITY REPRESENTATIVE WILL EVALUATE THE LOCATIONS OF (E) AND PROPOSE OUTLETS AND SWITCHES FOR POSSIBLE REUSE OF EXISTING LOCATIONS.
- 3. REMOVE TOILET FITMENT (GRAB BARS, SOAP/PAPER DISPENSERS, MIRRORS, ETC) FROM UNISEX1 AND UNISEX2 AND STORE / RE—INSTALL IN FINISHED SPACE
- 4. DURING ELECTRICAL DEMOLITION, PULL OUT AND REMOVE ALL EXISTING BOXES (LIGHT, SWITCH, DATA) AND WIRING. EXISTING ABANDONED WIRING THAT IS CONCEALED AND NOT READILY REMOVED CAN BE ABANDONED IN PLACE.

KEY NOTES

NOTE: NOT ALL KEY NOTES APPLY TO THIS SHEET

- COORDINATE WITH MECHANICAL PLANS FOR REWORKED FILTRATION SYSTEM THIS AREA BASIS FOR THE BID IS THAT THIS WILL REQUIRE ONLY SHEET METAL WORK (AS NOTED IN MECHANICAL PLANS)
- EXISTING ATTIC ACCESS SCUTTLE TO REMAIN, PAINT TO MATCH CEILING
- NOTE THE RESWINGING OF THIS DOOR FROM EXISTING TO NEW
- EXISTING EXPOSED FULL HEIGHT SHEET METAL HVAC RETURN TO REMAIN, PAINT TO MATCH ADJACENT WALL SURFACE.
- INSTALL NEW SURFACE MOUNTED FIRE EXTINGUISHER / 10 LB ABC AMEREX 441B, 4A-80BC
- KN6 EXISTING RECEPTION TRANSACTION COUNTER TO REMAIN, NO WORK. PROTECT DURING CONSTRUCTION OR 'REMOVE/STORE/RE-INSTALL'
- EXISTING DOOR #10, FRAME AND CASING TRIM TO BE REMOVED ALONG WITH 2X FRAMED WALL (BOTH SIDE) AND HEADER ABOVE. PATCH EXPOSED SURFACES AND PREP FOR TEXTURE / PAINT
- AREA OF EXTERIOR WALL TO BE REWORKED FOR NEW WINDOW CONFIGURATION: NEW 2X FRAMING, FULL BATT INSULATION, SHEATHING, WATERPROOFING, CEMENTITIOUS SIDING AND PAINT TO MATCH EXISTING. FINAL PRODUCT TO BLEND INTO EXISTING. ASSUME THE ENTIRE EXTERIOR WALL WILL REQUIRE PAINTING.
- KN9] EXISTING EXTERIOR FLATWORK TO REMAIN (NO WORK)
- NTO DEMOLISH MILLWORK AND SINK. EXISTING SUPPLY, WASTE AND VENT TO BE RE-USED.
- DEMOLISH SINK AND TOILET, EXISTING SUPPLY, WASTE AND VENT TO BE RE-USED

DOOR AND WINDOW DEMOLITION NOTES

- 1. DEMOLISH ALL INTERIOR DOORS, FRAMES AND CASING TRIM / ALL EXTERIOR DOORS AND FRAMES ARE TO REMAIN (NO WORK)
- 2. DEMOLISH ALL WINDOWS (LEAVE FRAME AS REQUIRED/TO FACILITATE INSTALLATION OF 'RETROFIT' TYPE) AND CASING TRIM, UNLESS OTHERWISE NOTED, REMOVE AS REQUIRED TO INSTALL NEW WINDOWS WHILE LEAVING FRAME/FLASHING/WATERPROOFING/EXTERIOR TRIM INTACT.
- 3. DEMOLISH WINDOWS #7, #10 AND #11 AS WELL AS SURROUNDIG TRIM, SIDING AND FRAMING AS REQUIRED TO INSTALL NEW 'NAIL ON' TYPE WINDOWS #7 #10, #11 AND #12. GOAL OF THIS WORK IS TO RE-USE EXISTING WINDOW HEADERS.

FLOORING AND BASE DEMOLITION NOTES

- . REMOVE ALL WALL BASE AND MASTIC, REPAIR ANY GYPSUM WALL DAMAGE IN PREPARATION OF NEW WALL BASE INSTALLATION
- 2. REMOVE ALL FLOORING AND ALL UNDERLAYMENT, MASTIC, ETC TO PREPARE CONCRETE SLAB FLOOR FOR NEW FLOORING
- 3. SEE GENERAL DEMOLITION NOTE #1

CEILING SURFACES AND FIXTURES DEMOLITION NOTES

- 1. EXISTING CEILING MOUNTED SUPPLY AND RETURN HVAC REGISTERS TO BE DEMOLISHED. PROTECT DUCTING (TO REMAIN) AND SEAL FOR DUST EXCLUSION FOR DURATION OF THE CONSTRUCTION PROCESS. SEE MECHANICAL FOR QUANTITY, LOCATION AND FUNCTION OF NEW REGISTERS
- 2. DEMOLISH ALL CEILING LIGHTS, PROVIDE BLOCKING AND GYPSUM BOARD PATCH WHERE RECESSED / PREP FOR NEW FINISH. FOR BIDDING PURPOSES ASSUME 25 LIGHT FIXTURES.
- 3. CEILING INSULATION IS OF A BLOWN IN TYPE. WHILE PERFORMING WORK AND DISTURBED AREAS OF INSULATION THE CONTRACTOR IS TO CONFIRM THAT ALL AREAS ARE INSULATED AND THE INSULATION IS IN GOOD SHAPE AND APPROPRIATE TO RE—COVER. REPORT ALL AREAS OF COMPROMISED AND/OR MISSING INSULATION TO UNIVERSITY REPRESENTATIVE. UPON COMPLETION OF WORK CONFIRM THAT ALL INSULATION HAS BEEN RETURNED WITH EQUAL DISTRIBUTION ACROSS ENTIRE ATTIC SPACE
- 4. DEMOLISH AND REMOVE FROM ATTIC SPACE ALL WIRING, ETC THAT IS NOT SCHEDULED TO REMAIN / BE REUSED
- 5. SEE GENERAL DEMOLITION NOTE #2

WALL SURFACES DEMOLITION NOTES

- 1. ALL EXTERIOR WALL INSULATION IS TO REMAIN UNDISTURBED. WHILE PERFORMING WORK AND EXPOSING AREAS OF INSULATION THE CONTRACTOR IS TO CONFIRM THAT ALL AREAS ARE INSULATED AND THE INSULATION IS IN GOOD SHAPE AND APPROPRIATE TO RE—COVER. REPORT ALL AREAS OF COMPROMISED AND/OR MISSING INSULATION TO UNIVERSITY REPRESENTATIVE.
- 2. REMOVE ALL ACCOUSTICAL TILES (AND MASTIC) FROM WALLS (AND CEILING) IN UNISEX1 AND UNISEX2 TO PREPARE FOR TEXTURE AND PAINT.
- 3. REMOVE ALL MARLITE (AND MASTIC) FROM WALLS IN UNISEX1 AND UNISEX2 TO PREPARE FOR NEW MARLITE WAINSCOT
- 4. DEMOLISH ALL SWITCHES AND OUTLETS, PROVIDE BLOCKING AND GYPSUM BOARD PATCH AS REQUIRED / PREP FOR NEW FINISH. FOR BIDDING PURPOSES ASSUME 15 SWITCH LOCATIONS / 40 ELECTRICAL OUTLET LOCATIONS.
- 5. EXISTING THERMOSTAT UNITS AND LOCATIONS TO REMAIN UNCHANGED. REMOVE UNITS FOR PROTECTION DURING CONSTRUCTION AND REINSTALL/RETURN TO OPERATION AT CONCLUSION OF THE PROJECT.
- 6. SEE GENERAL DEMOLITION NOTE #2

SHEET TITLE

DEMOLITION PLAN

PROJECT

BUILDING 101 MAJOR REPAIRS

INTERMOUNTAIN RESEARCH AND EXTENSION CENTER - TULELAKE, CA. 96134

UNIVERSITY OF CALIFORNIA

DIVISION OF AGRICULTURE AND NATURAL RESOURCES
FACILITIES PLANNING AND MANAGEMENT

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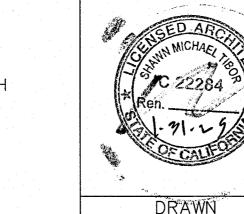
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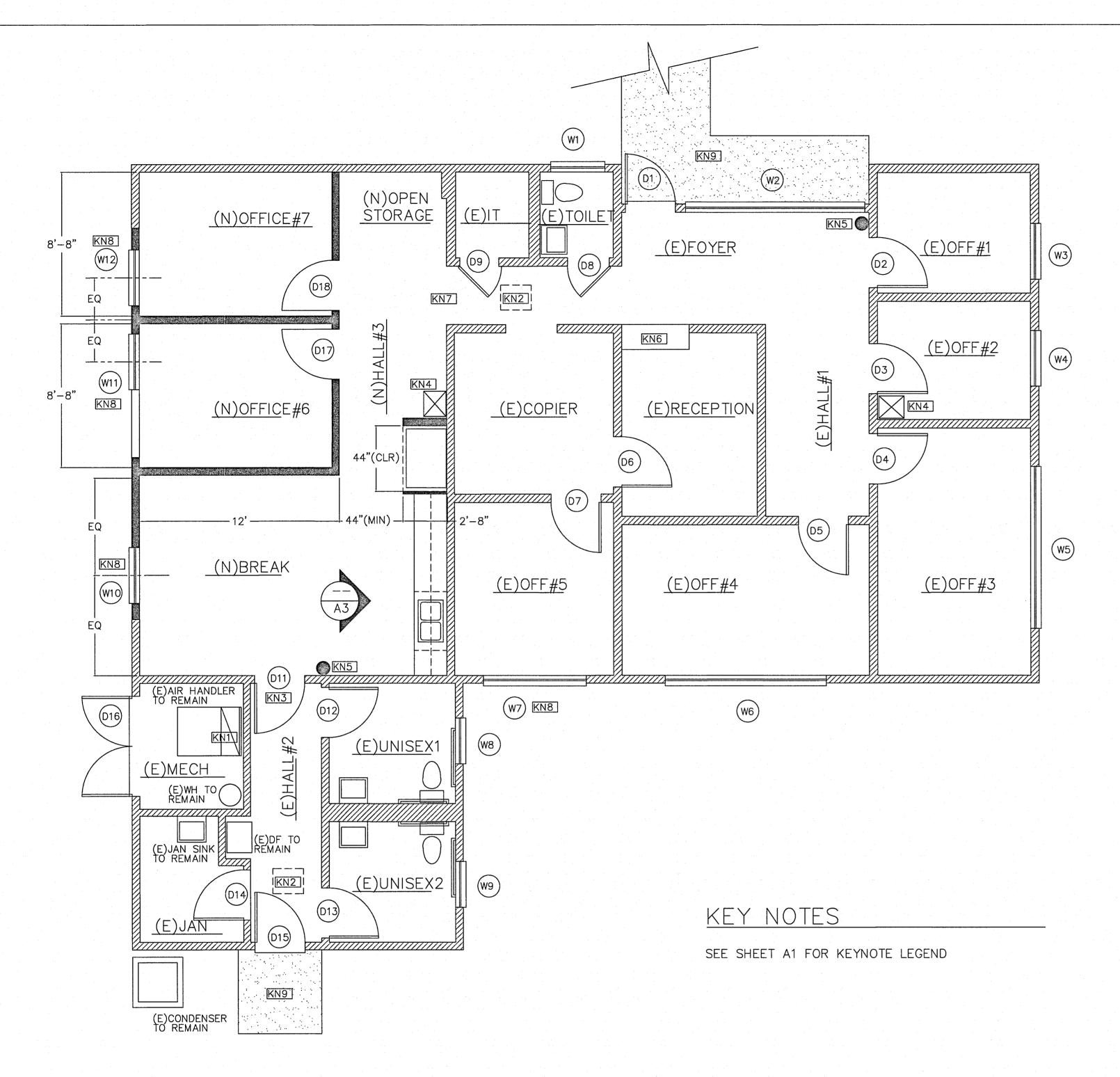
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PROPOSED FLOOR PLAN

SCALE: 1/4" = 1' - 0"

GYPSUM WALLBOARD NOTES

- 1. 1/2" GYPSUM BOARD FOR ALL NEW CONSTRUCTION,
- 2. IN AREAS OF PATCH WORK, CONFIRM APPROPRIATE THICKNESS OF GYPSUM BOARD TO BE USED.
- 3. FLOAT/SKIM ALL AREAS AS NECESSARY TO PRODUCE LEVEL/FLAT/IN PLANE FINAL APPEARANCE.
- 4. ALL AREAS OF GYPSUM BOARD WALLS AND CEILINGS TO BE PREPARED AS REQUIRED TO RECIEVE A COHESIVE 'LIGHT KNOCK DOWN' FINISHED TEXTURE FOR A UNIFORM FINAL APPEARANCE THROUGHOUT THE PROJECT. (NOTE: THIS IS OF PARTICULAR IMPORTANCE TO THE UNIVERSITY, THIS WORK WILL BE CLOSELY EVALUATED BEFORE FINAL ACCEPTANCE)
- 5. USE WATER RESISTENT GYPSUM BOARD FOR ANY WORK WITHIN TOILET ROOMS AND WALL AREA DIRECTLY BEHIND BREAKROOM SINK

FLOORING

- 1. FLOORING IN (E)JAN, (E) MECH AND (E) IT ROOMS IS EXISTING TO REMAIN, LEAVE IN PLACE/NO DEMOLISH/NO INSTALLATION OF NEW FLOORING
- 2. (E)TOILET, (E)UNISEX1 AND (E)UNISEX2 TO RECEIVE NEW SHEET VINYL FLOOR WITH INTEGRAL 5" COVED BASE. INSTALL WITH APPROPRIATE MASTIC AND CONFIRM SURFACE IS APPROPRIATE FOR INSTALLATION (SMOOTHNESS, WATER CONTENT, ETC). UNIVERSITY REPRESENTATIVE TO SELECT COLOR FROM MANUFACTURE STANDARD COLOR PALETTE. MAXIMIUM OF ONE SEAM IN EACH ROOM
- 3. ALL ROOM AND FLOOR SURFACES NOT MENTIONED IN NOTE #1 AND #2 (ABOVE) IS TO RECIEVE WATERPROOF LAMINATED PLANK STYLE FLOOR. INSTALLED IN A FLOATING TYPE APPLICATION OVER MANUFACTURED SPECIFIED UNDERLAYMENT. UNIVERSITY REPRESENTATIVE TO SELECT COLOR FROM MANUFACTURES STANDARD COLOR PALETTE. COORDINATE WITH UNIVERSITY REPRESENTATIVE FOR LAYOUT AND ORIENTATION AND ANY NECESSARY POINTS OF TRANSITION.
- 4. FLOOR TO EXTEND UNDER BREAKROOM COUNTER AT ADA WHEEL CHAIR SINK ACCESS.
- 5. COORDINATE WALL BASE MATERIAL AND INSTALLATION TO ASSURE CLEAN WORKMANSHIP AT FLOOR/TRANSITION AND CONCEALMENT OF GAP SPACING IN ANY POSTION OF MOVEMENT.
- 6. USE PROPER THRESHOLD TRANSITIONS FOR CLEAN WORKMANSHIP AT FLOORING TRANSITIONS

PAINTING NOTES

- 1. IT IS THE INTENT OF THIS PROJECT TO PAINT, STAIN AND/OR FINISH ALL EXPOSED SURFACES OF THE ENTIRE INTERIOR. SURFACES NOT REQUIRED TO BE PAINTED INCLUDE; FACTORY FINISHED SURFACES, HINGES, EQUIPMENT, APPLIANCES, HARDWARE AND THE LIKE.
- 2. GYPSUM WALLBOARD (SEMI-GLOSS FINISH) RESTROOMS
 FIRST COAT ULTRA HIDE PVA PRIMER
 SECOND COAT ULTRA HIDE LATEX SEMI GLOSS
 THIRD COAT ULTRA HIDE LATEX SEMI GLOSS

GYPSUM WALLBOARD (EGG SHELL FINISH) NON RESTROOMS
FIRST COAT ULTRA HIDE PVA PRIMER
SECOND COAT ULTRA HIDE LATEX EGGSHELL
THIRD COAT ULTRA HIDE LATEX EGGSHELL

DOORS
FIRST COAT
SECOND COAT
THIRD COAT

FACTORY SUPPLIED FINISH
ULTRA HIDE SEMI GLOSS
ULTRA HIDE LATEX SEMI GLOSS

CASEWORK AND COUNTERTOP NOTES

- 1. SEE MILLWORK PORTION OF SHEET A3 FOR ADDITIONAL NOTES AND DIMENSIONS
- 2. CONSTRUCT CASEWORK IN ACCORDANCE WITH WI 'MANUAL OF MILL WORK, CUSTOM GRADE
- 3. EXPOSED SURFACES TO BE CLAD WITH HIGH PRESSURE LAMINATE, .028". COLOR TO BE SELECTED BY UNIVERSITY REPRESENTATIVE FROM STANDARD COLOR GROUP.
- 4. CLAD INTERIOR SURFACES WITH MALAMINE, BAND ALL EDGES
- 5. PROVIDE FINISHED HARDWARE FOR ALL CASEWORK. CONSULT WITH UNIVERSTIY REPRESENTATIVE FOR STYLE, FINISH, ETC..

MARLITE WAINSCOT NOTES

1. 40" HIGH (MIN/ABOVE FINISHED FLOOR/COORDINATE WITH ELEMENT SUCH AS LIGHT SWITCHES) ON ALL SURFACES OF THE THREE TOILET ROOMS IN PROJECT. PROVIDE ALL TRIM AND EDGING. COLOR TO BE SELECTED BY UNIVERSITY REPRESENTIVE

WOOD DOOR AND METAL FRAME NOTES

- 1. SEE DOOR PORTION OF SHEET A3 FOR ADDITIONAL NOTES AND DIMENSIONS
- 2. 1 3/4" PARTICLE BOARD CORE, TYPE A, 5 PLY WITH MDO FACE VENEER. MDO APPROPRIATE FOR PAINTED FINISH. SHOP PRIME FACES AND VERTICAL EDGES WITH ONE COAT OF WOOD PRIMER
- 3. CLOSE GRAIN HARDWOOD VERTICAL EDGES. 1/2" MIN, BONDED
- 4. THERE ARE NO FIRE RATINGS ASSOCIATED WITH ANY NEW DOORS IN THIS PROJECT.
- 5. FRAMES TO BE PREMANUFACTURE/PREFINISHED METAL 'KNOCK DOWN' STYLE. COORDINATE HINGES/LOCKSETS AND OTHER HARDWARE. UNIVERSITY REPRESENTATIVE TO SELECT COLOR FROM STANDARD PALETTE. MANUFACTURE BY TIMELY OR EQUAL
- 6. CONTRACTOR TO VERIFY ALL DOOR/FRAME ASSEMBLY INSTALLATION LOCATIONS FOR (POSSIBLY VARIANCE WITHIN) WALL CONSTRUCTION ASSEMBLY PRIOR TO ORDERING

WINDOWS NOTES

1. SEE WINDOW PORTION OF SHEET A3 FOR ADDITIONAL NOTES AND DIMENSIONS

DOOR HARDWARE NOTES

- 1. SEE DOOR PORTION OF SHEET A3 FOR ADDITIONAL NOTES AND DIMENSIONS
- 2. ALL HARDWARE TO BE COMMERICAL GRADE, ALL HARDWARE TO BE COORDINATE WITH FINISH/COLOR
- 3. PROVIDE APPROPRIATE STOPS AT EACH DOOR
- 4. PROVIDE 3 KEYS FOR EACH DOOR WITH 2 LEVEL KEYING SYSTEM.

BASE NOTES

1. 4" TOP SET COVED RUBBER BASE. FIELD FIT CORNERS. CONTINUOUS ROLL (VERSUS SECTION LENGTHS) WITH NO BUTT JOINTS IN ANY STRAIGT RUN. UNIVERSTIY REPRESENTATIVE TO SELECT COLOR FROM MANUFACTURES STANDARD PALETTE. BURKE OR EQUAL

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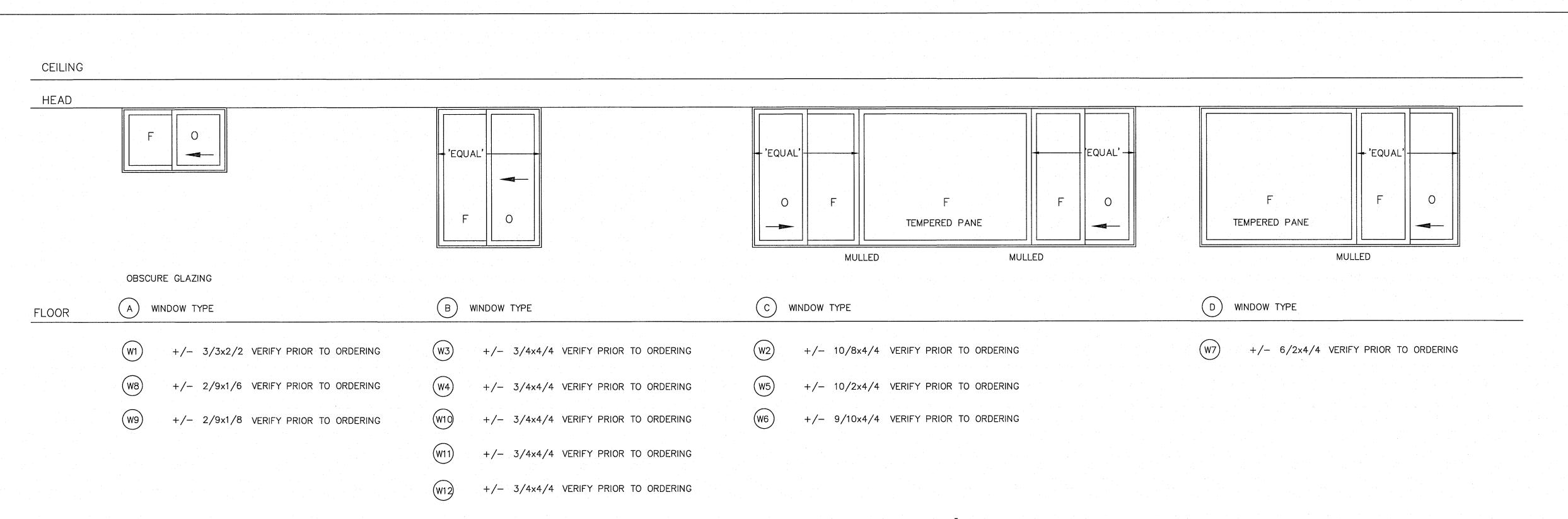
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- 1. ALL WINDOWS TO BE INSULATED, DUAL PANE, LOW E GLAZING
- 2. WITH EXCEPTION OF WINDOWS #10, #11 AND #12 ALL WINDOWS WILL BE SET INTO EXISTING WINDOW FRAMES WITH 'RETROFIT' TYPE. WATERPROOFING, FLASHING AND EXTERIOR TRIM SURROUND TO REMAIN / PROTECT DURING CONSTRUCTION.
- 3. WINDOWS #7, #10, #11 AND #12 TO HAVE SAME APPEARANCE AS OTHER WINDOWS BUT WILL NOT BE OF A 'RETROFIT' TYPE / TO BE STANDARD 'NAIL ON' TYPE. PROVIDE ALL NEW FLASHING, CAULKING AND EXTERIOR TRIM SURROUND TO MATCH EXISTING
- 4. VERIFY ALL DIMENSIONS PRIOR TO ORDERING
- 5. WINDOW ELEVATIONS DRAWN WITH PROFILE SHOWN FROM EXTERIOR VANTAGE POINT
- 6. UNIVERSITY REPRESENTATIVE TO SELECT WINDOW FRAME COLOR FROM STANDARD MANUFACTURE COLOR PALETTE
- 7. HEAD AND JAMB RETURNS TO BE 1/2" GYPSUM
- 8. ALL SILL RETURNS TO BE PAINT GRADE 3/4" WOOD WITH 1 1/2" EXTENSION PAST FACE OF JAMB WITH 1/2" RADIUSED CORNER.
- 9. ALL OPERABLE PANES TO HAVE INSECT SCREEN
- 10. PROVIDE 1" VINYL MINI BLINDS AT ALL WINDOWS, AT MULLED WIINDOW TYPES PROVIDE INDIVIDUAL BLINDS WITH CORD/WAND AT THE ACTIVE PANE. UNIVERSITY REPRESENTATIVE TO SELECT COLOR FROM MANUFACTURE STANDARD PALETTE

WINDOW GENERAL NOTES

1. ASSUMPTION/BASIS OF BID: ALL DOORS ARE 3/0x7/0 WITH EXCEPTION OF DOORS #8 AMD #9 WHICH ARE 2/4x7/0 - THESE DIMENSIONS MUST BE VERIFIED BY THE CONTRACTOR PRIOR TO ORDERING.

2 HARDWARE PACKAGE: 3 HINGES, COMMERCIAL GRADE SCHLAGE HARDWARE. BRUSHED NICKLE FINISH. CONSULT WITH UNVERSITY REPRESENTATIVE FOR HARDWARE FUNCTION TYPES AND KEYING FOR EACH DOOR

- 3. DOOR #11 TO HAVE 24"x30" TEMPERED SIINGLE PANE VISION PANEL, CONSULT WITH UNIVERSITY REPRESENTATIVE FOR GLASS TYPE (CLEAR OR OBSCURE)
- 4. DOORS #9 (MOUNTED LOW) AND #14 (MOUNTED HIGH) SHALL HAVE 18"x12" PAINTED FIXED LOUVER VENTS
- 5. DOORS #11, #12, #13 AND #14 SHALL HAVE 34"x12" STAINLESS STEEL MOP PLATES BOTH SIDES.

DOOR SCHEDULE

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

DOOR GENERAL NOTES

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DOOR, WINDOWS, MILLWORK

PROJECT

SHEET TITLE

BUILDING 101 MAJOR REPAIRS

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— EXISTING HVAC AIR RETURN (SHOWN FOR REFERENCE) ---THIS UPPER CAB FULL DEPTH OF ALCOVE REFRIGERATOR (NIC) CEILING FLOOR —(+/-)74" —— _____ 36" CLEAR ____ 18" ___ | SEE FLOOR PLAN ADA FRONT APPROACH

WINDOW SCHEDULE

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

COORDINATE GARBAGE DISPOSAL, INSTA HOT UNIT, WASTE AND SUPPLY LINES TO MAINTAIN ADA FRONT APPROACH SINK CLEARANCES

INSULATE HOT WATER SUPPLY AND WASTE LINES

THIS CABINET DOOR TO HAVE INTEGRAL TOE KICK APRON TRIM

1. SOLID SURFACE (CORIAN OR EQUAL) COUNTERTOP WITH EASED EDGE, 4" BACK AND SIDE SPLASHES

2. UPPER CABINETS TO BE 12" DEEP WITH (1) ADJUSTABLE SHELF / LOWER CABINETS TO BE 24" DEEP WITH (1) ADJUSTABLE SHELF

3. ALL MILLWORK CONSTRUCTED TO WI CERTIFICATION STANDARDS, STAMPING / CERTIFICATION NOT

MILLWORK GENERAL NOTES

BREAKROOM MILLWORK

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

	MECHANICA	AL LEGEND	
SYMBOL / ABBREVIATION	DESCRIPTION	SYMBOL / ABBREVATION	DESCRIPTION
R	DUCT RISE		DUCT DEMO
D	DUCT DROP	U/C -1> -	UNDERCUT DOOR
<i>0</i> 5A	OUTSIDE AIR	D/L	DOOR LOUVER
SA	SUPPLY AIR	-1 > OSA	OUTSIDE AIR
RA	RETURN AIR	-1 >	OUISIDE AIR
EXH	EXHAUST AIR	ф	DIAMETER OR PHASE
	BALANCE DAMPER	ABC	ABOVE CEILING
12×10	DUCT (WxH)	CLG	CEILING
12×1ØL	ACOUSTICAL LINED DUCTING	AP	ACCESS PANEL
	DUCT TRANSITION	CFM	CUBIC FEET PER MINUTE
\square	SUPPLY, RETURN, EXHAUST RISER	(E), EXISTING	EXISTING TO BE FIELD VERIFIED BY CONTRACTOR
	THERMOSTAT, SENSOR, HUMIDISTAT, CO2	FA, TA	FROM ABOVE, TO ABOVE
① ③ ⊕ ②	RELOCATE, EXTEND/6HORTEN DUCT	FB, TB	FROM BELOW, TO BELOW
R	AS REQUIRED	AFF	ABOVE FINISHED FLOOR
POC	POINT OF CONNECTION	Ħ	FINISHED FLOOR
M——	MOTORIZED DAMPER	/FT	PER FOOT
<u> </u>	RADIATION FIRE DAMPER	NIMC	NOT IN MECHANICAL CONTRACT
<u></u>	FIRE SMOKE DAMPER	NTS	NOT TO SCALE
(SD)———	DUCT SMOKE DETECTOR	OBD	OPPOSED BLADE DAMPER
→	AIRFLOW (OUTLET ARROW)	REF	REFERENCE
-{ →	AIRFLOW (INLET ARROW)	TYP	TYPICAL

GENERAL MECHANICAL NOTES

- I. EQUIPMENT: ALL EQUIPMENT AND MATERIALS SHALL BE NEW AND EQUAL IN QUALITY, TYPE, CAPACITY, EFFICIENCY, AND ACCESSORIES TO THE EQUIPMENT NOTED ON THE DRAWINGS. ADJUSTMENTS TO CONSTRUCTION AND ACCESSORIES ON SUBSTITUTED EQUIPMENT MAY BE REQUIRED TO ACHIEVE THIS EQUALITY, AND SHALL BE INCLUDED AT NO EXTRA COST TO THE OWNER. MAKE ANY CHANGES IN DUCTWORK, PIPING, FRAMING, ETC., AS REQUIRED TO ACCOMMODATE SUBSTITUTED EQUIPMENT.
- 2. INSTALLATION: INSTALL ALL EQUIPMENT AND MATERIALS AND PERFORM ALL WORK IN ACCORDANCE WITH EDITION APPLICABLE CODES INCLUDING BUT NOT LIMITED TO:
 - 2022 CALIFORNIA MECHANICAL CODE (CMC) 2022 CALIFORNIA ENERGY CODE (CEC) INCLUDING LOCAL AMENDMENTS
 - CALIFORNIA CODE OF REGULATIONS (CCR) 2022 CALIFORNIA BUILDING CODE (CALIFORNIA CODE OF REGULATIONS, TITLE 24)
 - NATIONAL FIRE PROTECTION ASSOCIATION (NFPA) 2022 CALIFORNIA FIRE CODE (CFC)
 - 2022 CALIFORNIA GREEN BUILDING STANDARDS CODE
- WHERE HEAVIER GAUGES OF MATERIAL, LARGER SIZES OR MORE STRINGENT REQUIREMENTS THAN THE CODES ARE REQUIRED BY THE CONTRACT DOCUMENTS, SUCH INCREASED REQUIREMENTS SHALL APPLY.
- 3. SHEET METAL DUCTWORK: ALL SHEET METAL DUCTWORK SHALL BE FABRICATED AND INSTALLED IN ACCORDANCE TO CMC STANDARDS AND SMACNA GUIDELINES WITH THE MORE STRINGENT BEING APPLIED. ALL DUCT JOINTS INCLUDING MECHANICAL FLANGED JOINTS SHALL BE SEALED WITH SILVER TAPE OR ARABOL AND CANVAS. SEAL THE JOINTS OF ALL DUCTS EXPOSED TO THE WEATHER WITH ARABOL AND CANVAS. PROVIDE ALL BRANCH DUCTS WITH VOLUME DAMPERS WITH LOCKING QUADRANTS LOCATED AT LEAST FIVE FEET (5') FROM THE GRILLE OR DIFFUSER SERVED, WITH LONG RADIUS ELBOWS. CONCEALED DAMPERS SHALL HAVE CABLE OPERATED MECHANISMS TO ALLOW ADJUSTMENTS WITH OUT DISTURBING THE STRUCTURE. ALL RECTANGULAR OR ROUND RIGID DUCTS SHALL BE OF SMACNA GAGE GALVANIZED STEEL OR ALUMINUM, UNLESS OTHERWISE NOTED ON THE DRAWINGS. PROVIDE FLAT SEAM CONSTRUCTION FOR ANY DUCTS EXPOSED IN OCCUPIED SPACE. NOTE: ALUMA-FLEX IS NOT ACCEPTABLE IN LIEU OF ROUND RIGID DUCTWORK. ALL DUCT OPENINGS SHALL BE SEALED AGAINST DUST AND DEBRISE UNTIL FINAL START-UP.
- 4. DUCT SUPPORTS: ALL PIPING AND DUCTWORK SHALL BE SUPPORTED IN ACCORDANCE WITH CMC STANDARDS OR SMACNA SEISMIC RESTRAINT MANUAL GUIDELINES FOR MECHANICAL SYSTEMS, CONTRACTOR SHALL PROVIDE CALCULATIONS FOR SEISMIC SUPPORTS AND RESTRAINTS THAT ARE ACCEPTABLE TO THE REVIEWING AUTHORITY.
- 5. FLEXIBLE DUCT: FLEXIBLE DUCTS SHALL BE ATCO 30, GENFLEX F29, THERMAFLEX M-KE, OR APPROVED EQUAL. FLEXIBLE DUCTWORK SHALL NOT BE USED WHERE EXPOSED DUCTWORK OCCURS, FIRE RATED WALL, FLOOR OR CEILING ASSEMBLIES EXISTS, AND TEMPERATURES EXCEEDS 250°F. PER 2022 CMC 603.4.1, FACTORY-MADE FLEXIBLE AIR DUCTS SHALL NOT BE MORE THAN 5 FEET IN LENGTH AND SHALL NOT BE USED IN LIEU OF RIGID ELBOWS OR FITTINGS, AND FLEXIBLE AIR DUCTS SHALL BE PERMITTED TO BE USED AS AN ELBOW AT A TERMINAL DEVICE.
- 6. ALL DUCT SIZES ON PLANS ARE SIZED FOR HARD DUCT.
- 1. AT THE TIME OF ROUGH INSTALLATION OR DURING STORAGE ON THE CONSTRUCTION SITE AND UNTIL FINAL STARTUP OF THE HEATING AND COOLING EQUIPMENT, ALL DUCT AND OTHER RELATED AIR DISTRIBUTION COMPONENT OPENINGS SHALL BE COVERED WITH TAPE, PLASTIC, SHEETMETAL OR OTHER METHODS ACCEPTABLE TO THE ENFORCING AGENCY.
- 8. INSULATION FOR INTERIOR DUCT: INSULATE ALL RIGID SUPPLY AND RETURN DUCTS WITH 1-1/2" THICK, 3/4 PCF DENSITY OWENS CORNING SOFTR OR EQUAL, FIBERGLASS DUCT WRAP, TYPE 15, WITH FOIL REINFORCED KRAFT VAPOR RETARDER FACING, BUTT JOINT PIECES WITH 2" MINIMUM TAP FLAP OVERLAPPING. WHEN IN CONDITIONED SPACE, DUCTS SHALL HAVE R-4.2 INSULATION. WHEN IN UNCONDITIONED SPACE, DUCTS SHALL HAVE R-8.0 INSULATION.

INSULATION FOR EXTERIOR DUCT: SEAL ALL METAL JOINTS PER SMACNA & CEC, LINE WITH 2" CERTAINTEED TOUGHGARD, RIGID LINER BOARD. TAPE ALL INSULATED INTERIOR JOINTS. INSULATION SHALL BE PROTECTED FROM DAMAGE BY MOISTURE, UV AND PHYSICAL ABRASION. INSULATION EXPOSED TO WEATHER SHALL BE SUITABLE FOR OUTDOOR SERVICE, PROTECTED BY ALUMINUM, SHEET METAL, PAINTED CANVAS, OR PLASTIC COVER CELLULAR FOAM INSULATION SHALL BE PROTECTED AS ABOVE OR PAINTED WITH A COATING THAT IS WATER RETARDANT AND PROVIDES SHIELDING FROM SOLAR RADIATION. THIS APPLIES TO REFRIGERANT LINE SETS AS WELL. DUCTS SHALL HAVE R-8.0 INSULATION.

- 9. DUCT LINER: LINE ALL RIGID SUPPLY AND RETURN DUCT DROPS FOR A MINIMUM OF 10' FROM THE UNIT WITH 1" THICK OWENS CORNING QUIETER ACOUSTICS OR EQUAL ACOUSTIC DUCT LINER. INSTALL WITH 100% COVERAGE ADHESIVE COMPLYING WITH ASTM C 916, AND FURTHER APPLY TO BUTTED ENDS. MECHANICAL FASTENERS SHALL BE APPLIED 3" FROM CORNERS AND 12" OC BETWEEN CORNER FASTENERS, ALL DUCT DIMENSIONS ON PLANS ARE CLEAR DIMENSIONS, SEAL BUTT ENDS OF EXPOSED INSULATION IN THE DUCTS WITH MANUFACTURERS RECOMMENDED SEALANT OR ADHESIVE.
- 10. CONTROLS: HEATING AND COOLING CONTROLS SHALL COMPLY WITH 2022 CEC, SUBCHAPTER 3, SECTION 120.2. ALL CONTROLS AND CONTROL WIRING ARE NOT SPECIFICALLY SHOWN BUT ARE REQUIRED FOR A COMPLETE AND WORKABLE SYSTEM AND SHALL BE SUPPLIED BY THE CONTRACTOR AND INSTALLED AT NO ADDITIONAL COST TO THE OWNER.
- II. TESTING: ALL AIR SYSTEMS SHALL BE BALANCED BY A TRAINED MECHANICAL CONTRACTOR, USING AABC, SMACNA, OR NEBB PROCEDURES. AIR QUANTITIES SHALL BE ADJUSTED TO NOT MORE THAN 10% ABOVE OR 0% BELOW THE QUANTITIES SHOWN ON THE DRAWINGS. CONTRACTOR SHALL SUBMIT A COMPLETE AIR BALANCE REPORT INDICATING, AS A MINIMUM, THE AIR DELIVERY FOR EACH DIFFUSER, THE FINAL OPERATING DATA FOR THE SYSTEMS AND THE AIR CONDITIONING UNITS.
- 12. SUBMITTALS: SUBMIT FOR APPROVAL COPIES OF COMPLETE SUBMITTAL DATA ON SPECIFIED AND PROPOSED EQUIPMENT AND MATERIALS. SUBMITTALS SHALL INCLUDE EQUIPMENT SIZES, CAPACITY, MOTOR LOCATIONS, PERFORMANCE CURVES AND OTHER PERTINENT DATA. EACH SUBMITTAL SHALL INCLUDE IDENTIFICATION TAGS OR SYMBOLS TO MATCH THOSE ON DRAWINGS. PARTIAL SUBMITTALS OR SUBMITTALS WHICH ARE NOT MARKED WITH EQUIPMENT TAGS OR PERFORMANCE DATA WILL BE REJECTED. EQUIPMENT THAT IS NOT SUBMITTED IS TO BE USED AT THE CONTRACTORS OWN RISK REGARDLESS OF BRAND OR MODEL USED.
- 13. EQUIPMENT IDENTIFICATION: PROVIDE PERMANENT ENGRAVED PLASTIC NAME PLATED FOR ALL EQUIPMENT INSTALLED, INDICATING THE PLAN DESIGNATION OF THE UNIT (AC-1, REF, ETC.) AND ALSO THE BUILDING AREA SERVED (CLASSROOMS 2-4, CONFERENCE ROOM, ETC.). STAMPED METAL TAPES APPLIED WITH SELF-CONTAINED ADHESIVE WILL NOT BE ACCEPTABLE. GLUE TO THE INSIDE COVER OF THE
- COMPRESSOR ACCESS PANEL, A COPY OF THE EQUIPMENT NAMEPLATE SUBMITTAL DATA. 14. CONTRACTOR SHALL VERIFY ALL WORK CONDITIONS PRIOR TO COMMENCING WORK, INCLUDING, BUT NOT LIMITED TO: DIMENSIONS, EQUIPMENT, STRUCTURAL ELEMENTS AND MATERIALS INDICATED AS EXISTING, AS WELL AS THE COORDINATED INSTALLATION OF ALL NEW

WORK, MATERIALS, EQUIPMENT, ETC. COORDINATE THE LOCATION OF ALL ROOF MOUNTED EQUIPMENT WITH THE STRUCTURAL ENGINEER.

- 15. CONTRACTOR SHALL FIELD COORDINATE TERMINATION OF ENVIRONMENTAL AIR DUCT EXHAUST SO THAT THEY TERMINATE NOT LESS THAN 3 FEET FROM A PROPERTY LINE, 10 FEET FROM A FORCED AIR INLET, 10 FEET ABOVE A PUBLIC WALKWAY, AND 3 FEET FROM OPENINGS INTO THE BUILDING, AND DO NOT DISCHARGE ONTO A PUBLIC WALKWAY (2022 CMC 502.2.1).
- 16. SUBMITTAL NOTE: MECHANICAL SYSTEMS DESIGN REFLECT EQUIPMENT SPECIFIED, WHEN EQUIPMENT SUBSTITUTIONS OCCUR AND DUCT DESIGN, DUCT DROPS, GAS INPUT AND ELECTRICAL SERVICE VARIES FROM THAT SPECIFIED, THEN IT SHALL BE THE RESPONSIBILITY OF THE MECHANICAL CONTRACTOR FOR ALL ADDITIONAL ENGINEERING FEES WHEN SUBSTITUTED EQUIPMENT REFLECT A REVISION OR CHANGE ON OUR DRAWINGS.
- 17. INSTALLATION INSTRUCTIONS FOR ALL LISTED EQUIPMENT SHALL BE MADE AVAILABLE TO THE BUILDING INSPECTOR AT THE TIME OF INSPECTION.
- 18. ONLY PERMITTED PLANS SHALL BE USED FOR CONSTRUCTION OR BIDDING.

	GRILLE SCHEDULE
SYMBOL	DESCRIPTION
	SUPPLY GRILLE, TITUS, MODEL MCD, MODULAR CORE DIFFUSER WITH ROUND NECK. BORDER TYPE I FOR SURFACE MOUNT APPLICATIONS. RETURN GRILLE, TITUS, MODEL 50F, EGGCRATE RETURN GRILLE. BORDER TYPE I FOR SURFACE MOUNT APPLICATIONS. APPLICATIONS. BORDER TYPE 3 FOR LAY-IN/T-BAR MOUNT APPLICATIONS.

12×12 NECK SIZE (INCHES × INCHES)
500 AIR FLOW (CFM)

NOTE: SUBSTITUTIONS ALLOWED FOR MANUFACTURERS AND MODELS SIMILAR IN QUALITY AND PERFORMANCE. GRILLES SHALL BE SIZED FOR NOISE CRITERIA (NC) NOT TO EXCEED 20.

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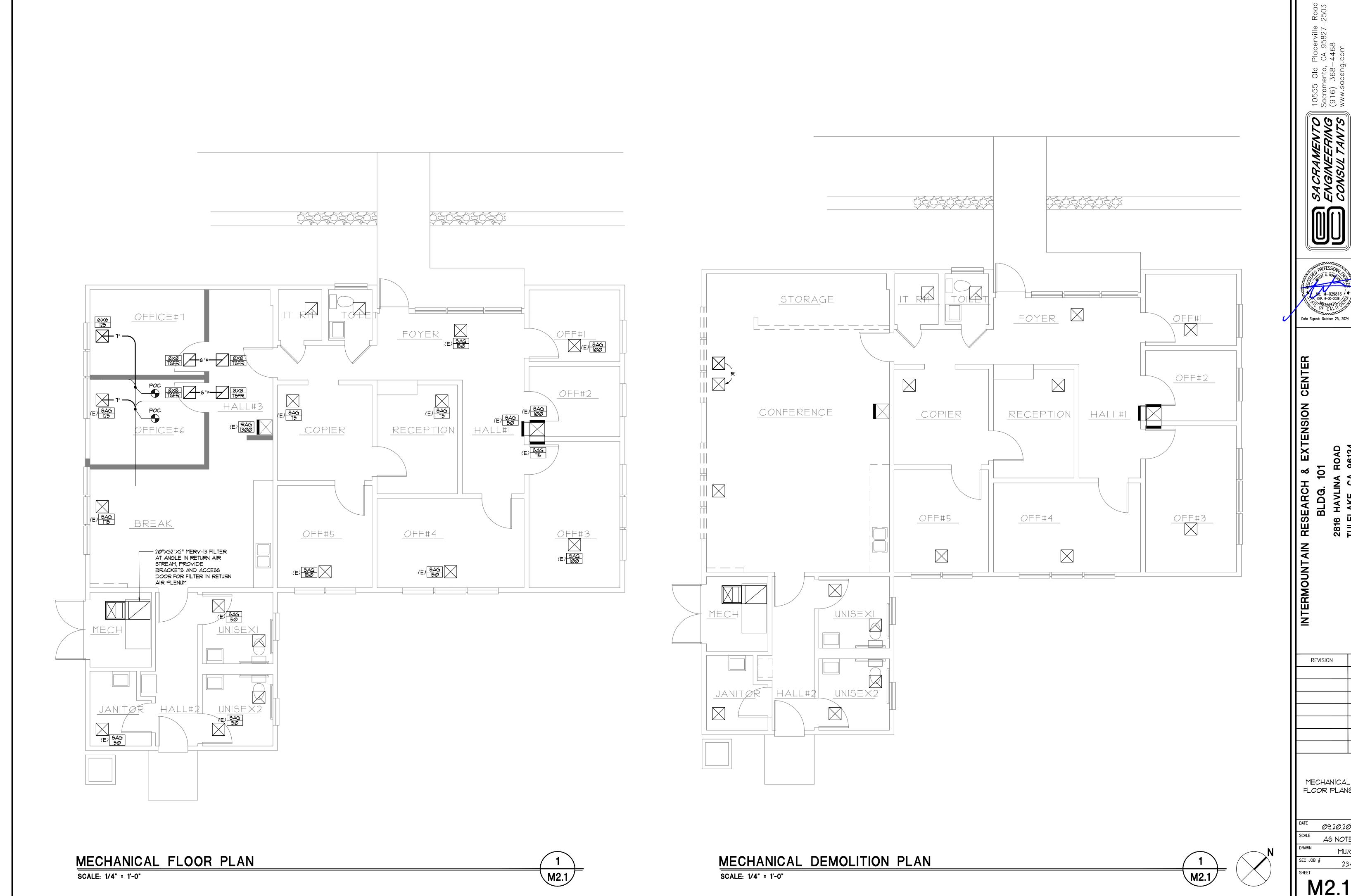
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REVISION

MECHANICAL NOTES, LEGEND & SCHEDULES

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REVISION

MECHANICAL FLOOR PLANS

09.20.202 AS NOTED

- ALL EQUIPMENT AND MATERIALS USED SHALL BE NEW AND SHALL BE EQUAL IN QUALITY, TYPE, CAPACITY AND ACCESSORIES TO THE EQUIPMENT NOTED ON THE DRAWINGS. ADJUSTMENTS TO CONSTRUCTION AND ACCESSORIES ON SUBSTITUTED EQUIPMENT MAY BE REQUIRED TO ACHIEVE THIS EQUALITY, AND SHALL BE INCLUDED AT NO EXTRA COST TO THE OWNER. MAKE ANY CHANGES IN PIPING, FRAMING, ETC., AS REQUIRED TO ACCOMMODATE SUBSTITUTED EQUIPMENT.
- ALL PLUMBING FIXTURES, PIPES AND FITTINGS SHALL MEET THE STANDARDS REFERENCED IN 2022 CA PLUMBING CODE TABLE 1701.1 AND 2022 CA GREEN BUILDING STANDARDS CODE CHAPTER 6 PER 2022 CA GREEN BUILDING STANDARDS CODE SECTION 5,303.6.
- INSTALL ALL EQUIPMENT AND MATERIALS AND PERFORM ALL WORK IN ACCORDANCE WITH ALL APPLICABLE CODES. APPLICABLE CODES SHALL INCLUDE, BUT NOT BE LIMITED TO THE 2022 EDITIONS OF THE CA MECHANICAL CODE, CA PLUMBING CODE, CA FIRE CODE, AND CA CODE OF REGULATIONS (CCR) TITLE 24 BUILDING ENERGY EFFICIENCY STANDARDS, WHERE HEAVIER GAGES OF MATERIAL, LARGER SIZES OR MORE STRINGENT REQUIREMENTS THAN THE CODES ARE REQUIRED BY THE CONTRACT DOCUMENTS, SUCH INCREASED REQUIREMENTS SHALL
- UNLESS SUBMITTED ELECTRONICALLY, PROVIDE SIX COPIES OF SUBMITTALS WITH MANUFACTURER'S OPERATING AND MAINTENANCE DATA FOR ALL ITEMS OF EQUIPMENT INSTALLED. INDICATE THE EXACT MODEL(S) OF EQUIPMENT, WHERE THE MANUFACTURER'S DATA INCLUDES MODELS OTHER THAN THOSE INSTALLED. BIND THE INFORMATION IN 3 RING BINDERS, WITH DIFFERENT TYPES OF EQUIPMENT INDEXED. PROVIDE A SHEET INDICATING THE CONTRACTOR'S (AND SUBCONTRACTOR'S) NAMES, ADDRESSES AND TELEPHONE NUMBERS. INCLUDE ALSO THE PREFERRED SOURCES OF SPARE PARTS FOR THE EQUIPMENT INSTALLED, INCLUDING ADDRESSES, TELEPHONE NUMBERS, ETC.
- CONTRACTOR SHALL VERIFY ALL WORK CONDITIONS, PRIOR TO COMMENCING WORK, INCLUDING, BUT NOT LIMITED TO: PIPING SIZES, INVERT ELEVATIONS, POINTS OF CONNECTION, FIXTURES AND EQUIPMENT, STRUCTURAL ELEMENTS AND MATERIALS INDICATED AS EXISTING, AS WELL AS THE COORDINATED INSTALLATION OF ALL NEW WORK, MATERIALS, EQUIPMENT, ETC. VERIFY THE LOCATION AND REQUIRED PIPING CONNECTIONS OF ALL HVAC OR OTHER MECHANICAL EQUIPMENT. NOTIFY ARCHITECT OF ANY DISCREPANCIES PRIOR TO TRENCHING OR COMMENCING OTHER WORK, CONTRACTOR SHALL VERIFY SIZE OF EXISTING GAS METER IS ADEQUATE WITH PG & BEFORE STARTING CONSTRUCTION.
- MECHANICAL EQUIPMENT AND IDENTIFICATION TAGS SHOWN ON DRAWINGS ARE FOR THE COORDINATION OF UTILITIES ONLY, REFER TO MECHANICAL DRAWINGS FOR EQUIPMENT SPECIFICATIONS.
- ALL FIELD TESTS SHALL BE OBSERVED BY THE AUTHORITY HAVING JURISDICTION.

2. GAS PIPING

BLACK STEEL, ASTM A-53, WITH MALLEABLE STEEL FITTINGS. PIPE SHALL BE COATED. PIPE SIZES 2½" AND OVER SHALL HAVE WELDED JOINTS, SIZES 2" AND SMALLER MAY BE THREADED OR WELDED, AT CONTRACTOR'S OPTION, EXCEPT THAT ALL PIPING UNDERGROUND SHALL BE WELDED REGARDLESS OF SIZE. CONTRACTOR MAY USE POLYETHYLENE PIPING WITH TRACE WIRE FOR UNDERGROUND PIPING ONLY.

INSTALLATION NOTES:

WRAP UNDERGROUND COUPLINGS IN 6ML TAPE. PAINT ALL EXPOSED PIPING WITH RUST INHIBITING PAINT. GAS PIPING BELOW GRADE SHALL BE WRAPPED AS DESCRIBED FOR WATER PIPING, OR, AT CONTRACTOR'S OPTION, MAY HAVE EXTRU-COAT OR SIMILAR COVERING. ALL FIELD JOINTS SHALL BE WRAPPED AS FOR BARE PIPING JOINTS. PLACE EXTRU-COAT GAS PIPING IN A SAND OR SIEVED EARTH BED, WITH SIMILAR COVERING TO A LEVEL OF 4" ABOVE TOP OF PIPE.

PRESSURE TEST ALL GAS PIPING FOR TWO HOURS AT 60 PSIG OR HIGHER FIND LEAKS USING SOAP AND WATER OR SIMILAR MATERIALS AT ALL JOINTS. REPAIR ANY LEAKS FOUND BY REMAKING THE JOINT. DO NOT USE CAULKING OR SIMILAR METHODS TO CORRECT LEAKS. RESET AFTER REPAIRING LEAKS, UPON REPAIRING ANY LEAKS FOUND, RETEST THAT PORTION OF THE SYSTEM AS DESCRIBED ABOVE.

3. SANITARY SEWER, STORM WATER, VENT PIPING

- SANITARY SEWER AND VENT: POLY VINYL CHLORIDE (PVC) OR ACRYLONITRILE-BUTADIENE-STYRENE (ABS) PLASTIC PIPE. ALL PIPE, COUPLINGS AND FITTINGS SHALL BE MANUFACTURED OF MATERIAL CONFORMING TO ASTM DI785, D2661, D2665, D2680, F628, SOLVENT CEMENT FOR PLASTIC PIPE SHALL CONFORM TO ASTM D2564, D2235, D3138. PLASTIC PIPING SHALL NOT BE USED IN PLENUMS.
- SANITARY SEWER AND VENT EXPOSED OR IN RETURN AIR PLENUM OR SANITARY SEWER FROM URINALS: CAST IRON SOIL PIPE AND FITTINGS, ASPHALTIC COATED, CONFORMING TO CAST IRON SOIL PIPE INSTITUTE STANDARD #301 AND SO STAMPED. JOINTS SHALL BE HUBLESS PIPE AND FITTINGS SHALL CONFORM TO THE MANUFACTURER'S INSTALLATION INSTRUCTIONS, THE CAST IRON SOIL PIPE INSTITUTE STANDARD 310 AND LOCAL CODE REQUIREMENTS. HUBLESS COUPLING GASKETS SHALL CONFORM TO ASTM STANDARD B302, B306, C564.
- STORM WATER ABOVE GROUND SANITARY SEWER: SERVICE WEIGHT CAST IRON SOIL PIPE AND FITTINGS, NO-HUB OR EQUAL, OR SCHEDULE 40 GALYANIZED STEEL PIPE WITH BLACK CAST IRON DRAINAGE FITTINGS.

INSTALLATION NOTES:

SYMBOL / ABBREVIATION

-CD-

 $-\times \times \times$

→ ✓ GV

— CHY

——— GCO, FCO

CO, WCO

G - - D

DESCRIPTION

VENT PIPING

COLD WATER PIPING HOT WATER PIPING

HOT WATER RETURN PIPING

TEMPERED WATER PIPING

COMPRESSED AIR PIPING

CONDENSATE DRAIN PIPING

PRESSURE AND TEMPERATURE

EXISTING PIPING OR FIXTURE

GATE VALVE, IN RISER/DROP

GATE VALVE IN VALVE BOX

CLEANOUT, WALL CLEANOUT

GRADE OR FLOOR CLEAN OUT

PIPE DROP/ PIPE TEE DROP

PIPE RISER/ PIPE TEE RISER

FIRE SPRINKLER PIPING

STORM DRAIN PIPING

RELIEF PIPING

CHECK VALVE

REDUCER

BALANCING VALVE

TO BE REMOVED

GAS PIPING - PRESSURE NOTED

SANITARY SEWER BELOW GRADE/SLAB

GREASE WASTE BELOW GRADE/SLAB

UNLESS OTHERWISE SPECIFIED

UNLESS OTHERWISE SPECIFIED

- CAREFULLY GRADE ALL SANITARY SEWER PIPING TO ENSURE A UNIFORM SLOPE IS ACHIEVED, WITHOUT ANY DIPS OR HIGH POINTS IN THE PIPING. UNLESS OTHERWISE NOTED, UNDER SLAB SANITARY SEWER PIPING SHALL BE SLOPED AT 1/4" PER FOOT.
- CAREFULLY TRENCH FOR ALL UNDERGROUND PIPING. AVOID OTHER UTILITIES, AND REPAIR ANY DAMAGES CAUSED BY THE WORK OF THIS CONTRACT. PROVIDE PROPER SHORING FOR ALL DEEP TRENCHES, AS REQUIRED BY THE SAFETY REGULATIONS OF THE STATE, AND BY OSHA. PROVIDE ALL REQUIRED BARRICADES, WARNING SIGNS, ETC. CAP ALL PIPING ENDS AT THE CLOSE OF THE DAY'S WORK TO PREVENT ENTRY OF FOREIGN MATERIALS, FLUSH PIPING OF ALL DEBRIS BEFORE CONNECTING TO FIXTURES.
- EMBED ALL UNDERGROUND PIPING, IN SIEVED EARTH FOR A DEPTH OF 4" ABOVE THE PIPE, 12" MIN. COVER. SMOOTH THE TRENCHING BELOW THE PIPING FREE FROM ANY ROCKS OR SIMILAR OBSTRUCTIONS AND PROVIDE SPACE FOR BELLS OR MECHANICAL JOINTS FOR ALL SANITARY SEWER PIPING. LATERALLY BRACE PIPING TO PREVENT PIPE MOTION DURING BACK FILLING OPERATIONS. PROVIDE TRAPS FOR ALL FIXTURES. TRAPS FOR SINKS AND LAYATORIES SHALL BE BRASS, 17 GAGE MINIMUM THICKNESS WITH INTEGRAL CLEANOUT MODEL DEERBORN BRASS OR SIMILAR.
- CLEANOUT FITTINGS SHALL BE NOT LESS IN SIZE: 11/2" PIPE-11/2" CLEANOUT, 2" PIPE-11/2" CLEANOUT, 21/2" PIPE-21/2" CLEANOUT, 3" PIPE-21/2" CLEANOUT, 4" AND LARGER PIPE-31/2" CLEANOUT, WALL CLEAN OUT: WADE 8480-C CLEANOUT TEE W/ WALL ACCESS COVER, DURA-COATED CAST IRON BODY, GAS AND WATER TIGHT BRONZE PLUG AND STAINLESS STEEL WALL ACCESS COVER WITH SECURING SCREW. FLOOR CLEAN OUT: WADE 6000-STD GAS AND WATER-TIGHT TAPERED THREADED PLUG AND ROUND POLISHED NICKEL BRONZE SCORIATED ADJUSTABLE

PLUMBING LEGEND

SYMBOL / ABBREVATION

POC

CLG

US, UF, UG

ABC

TDL

(E), EXISTING

RD, OD

SS, SSD

GW, GWD

Y, YR, YTR

CW, CWD, CWR

HW, HWD, HWR

HWR

NTS

TYP

NIPC

 $W\!HA$

DESCRIPTION

TRAP PRIMER

FLOOR DRAIN

FLOOR SINK

HOSE BIBB

FINISH FLOOR

ABOVE CEILING

INVERT ELEVATION

EXISTING TO BE FIELD VERIFIED BY CONTRACTOR

CEILING

POINT OF CONNECTION

UNDER SLAB/FLOOR/GROUND

TOTAL DEVELOPED LENGTH

ROOF DRAIN, OVERFLOW DRAIN

VENT, VENT RISER, VENT THRU

HOT WATER, HOT WATER DROP,

NOT IN PLUMBING CONTRACT

COLD WATER RISER

HOT WATER RISER

HOT WATER RETURN

NOT TO SCALE

COLD WATER, COLD WATER DROP,

SANITARY SEWER, SANITARY SEWER

GREASE WASTE, GREASE WASTE DROP

WATER HAMMER ARRESTOR

PROVIDE WALL OR FLOOR CLEANOUT AT END OF ALL BRANCH FIXTURE RUNS.

- PER CPC 906.2 EACH VENT SHALL TERMINATE NOT LESS THAN 10 FEET FROM, OR NOT LESS THAN 3 FEET ABOVE, AN OPENABLE WINDOW, DOOR OPENING, AIR INTAKE, OR VENT SHAFT, OR NOT LESS THAN 3 FEET IN EVERY DIRECTION FROM A LOT LINE, ALLEY AND STREET EXCEPTED. ABS AND PVC PIPING EXPOSED TO SUNLIGHT SHALL BE PROTECTED BY WATER BASED SYNTHETIC LATEX PAINT.
- PROVIDE WRAP ON SANITARY PIPING UNDER ACCESSIBLE PLUMBING FIXTURES, PLUMBEREX "PRO-EXTREME" ONE-PIECE PROTECTOR WITH FULL ROTATION OPTION, AND 3-M DUAL LOCK FASTENERS SECURED WITH SELF LOCKING NYLON STRAPS. INSULATE RAIN WATER CONDUCTORS WHICH PASS THROUGH OCCUPIED AREAS WITH $\frac{1}{2}$ " THICK FIBERGLASS.

TEST ALL SANITARY SEWER PIPING FOR 8 HOURS BY CAPPING OR PLUGGING ALL JOINTS TO A LEVEL OF THE HIGHEST FIXTURE OR FITTING, FILLING

THE SYSTEM WITH WATER, AND OBSERVING FOR LEAKS. TEST UNDERGROUND SECTION OF PIPE WITH A RISER TO ACHIEVE THE PRESSURE EQUIVALENT TO THE HIGHEST FIXTURE OR FITTING. REPAIR ANY LEAKS FOUND BY REMAKING THE JOINT. DO NOT USE CAULKING OR SIMILAR METHODS TO CORRECT LEAKS. UPON REPAIRING ANY LEAKS FOUND, RETEST THAT PORTION OF THE SYSTEM AS DESCRIBED ABOVE.

4. DOMESTIC WATER

DESCRIPTION:

- TYPE K BELOW GRADE, TYPE L ABOVE GRADE, COPPER TUBING, HARD-TEMPER, WITH WROUGHT COPPER FITTINGS. SOLDERING / BRAZING MATERIAL SHALL BE LEAD FREE, SILVER SOLDER BELOW GRADE, 95-5 OR SIMILAR PLASTIC SLEEVE ALL UNDERGROUND PIPES. CAPPED OR PLUGGED OUTLETS SHALL BE SCHEDULE 40 SCREWED BRASS PIPING SHALL BE ASTM B42, B75, B88.
- PEX PIPING: IF SUBSTITUTED, CONTRACTOR SHALL PROVIDE REVISED PIPING PLAN AND CALCULATIONS BASED UPON MANUFACTURERS RECOMMENDATIONS. PIPING SHALL BE PEX-A, ASTM F816, F811 PER TABLE 604.1.
- CPVC PIPING: IF SUBSTITUTED, CONTRACTOR SHALL PROVIDE REVISED PIPING PLAN AND CALCULATIONS BASED UPON MANUFACTURERS RECOMMENDATIONS. PIPING SHALL BE ASTM D1785, D2564, D2846, F441 AND F438 SCHEDULE 40 PER TABLE 604.1.

INSTALLATION NOTES: SLOPE ALL WATER PIPING TO ELIMINATE AIR.

- PROVIDE WATER HAMMER ARRESTORS, AT END OF HOT AND COLD WATER BRANCHES SERVING QUICK ACTION VALVES, I.E. FLUSH VALVES, CLOTHES WASHERS, ETC. FIXTURES, A MECHANICAL SHOCK ABSORBER MAY BE UTILIZED FOR A BATTERY OF FIXTURES, PROVIDED THE ABSORBER IS SIZED FOR THE MAIN LINE SERVING THE BATTERY OF FIXTURES, SIMILAR TO PPP MODEL SC150.
- PER CPC 609.9.2 CHLORINATE ALL NEW WATER PIPING FOR A PERIOD OF 24 HOURS, BY CHARGING WITH A CHLORINE SOLUTION TO ACHIEVE A 50 PPM STRENGTH AT THE FIXTURE FURTHEST FROM THE POINT OF APPLICATION. UPON COMPLETION OF CHLORINATION, FLUSH ALL PIPING UNTIL NO CHLORINE CAN BE DETECTED BY TASTE, AFTER CHLORINATION AND ALL TESTING HAS BEEN COMPLETED, CLEAN ALL FIXTURE STRAINERS.
- PROVIDE STOPS FOR ALL FIXTURES. STOPS SHALL HAVE THREADED INLETS, SIMILAR TO NIBCO 1155A. STOPS WITH BRAZED, SOLDERED OR COMPRESSION INLET CONNECTIONS WILL NOT BE ALLOWED. PROVIDE 3 WAY HW ANGLE STOP FOR DISHWASHER.
- PROVIDE ELBOWS AT ALL PIPING PENETRATIONS OF WALLS TO STOPS. ELBOWS SHALL HAVE NAILING EARS AND SHALL BE SECURELY FASTENED TO THE STRUCTURE. NIPPLES THROUGH THE WALLS SHALL BE IPS WEIGHT THREADED COPPER OR BRASS.
- PROVIDE WRAP ON HOT AND COLD WATER PIPING UNDER ACCESSIBLE PLUMBING FIXTURES. PLUMBEREX "PRO-EXTREME" ONE-PIECE PROTECTOR WITH FULL ROTATION OPTION AND 3-M DUAL LOCK FASTENERS SECURED WITH SELF LOCKING NYLON STRAPS. WRAP ALL HOT WATER SUPPLY AND RETURN PIPING WITH K-FLEX INSUL-TUBE, FLEXIBLE ELASTOMERIC CLOSED-CELL THERMAL INSULATION OR EQUAL. FOR PIPE SIZES LESS THAN I", INSULATION THICKNESS SHALL BE I". FOR PIPE SIZES I" AND LESS THAN OR EQUAL TO 11/2", INSULATION THICKNESS SHALL BE 11/2". FOR PIPE SIZES 2" AND GREATER, INSULATION THICKNESS SHALL BE 2". INSULATION HAS A FLAME-SPREAD INDEX OF LESS THAN 25 AND A SMOKE-DEVELOPED INDEX OF LESS THAN 50. TAPE ALL BUTTED JOINTS WITH TAPE AS RECOMMENDED BY THE MANUFACTURER, USE ENLARGED SECTIONS AT FITTINGS, WHERE REQUIRED, AND MITERED JOINTS AT ELBOWS, ETC.
- TEST ALL WASTE AND VENT PIPING FOR A PERIOD OF NOT LESS THAN 2 HOURS BY CAPPING OR PLUGGING ALL JOINTS TO A LEVEL OF THE HIGHEST FIXTURE OR FITTING, FILLING THE SYSTEM WITH WATER, AND OBSERVING FOR LEAKS. TEST UNDERGROUND SECTION OF PIPE WITH A RISER TO ACHIEVE THE PRESSURE EQUIVALENT TO THE HIGHEST FIXTURE OR FITTING. TEST WATER PIPING WITH AIR AT 100 PSIG FOR EIGHT HOURS, OBSERVING FOR ANY VISIBLE LEAKS. TEST PIPING AGAIN WITH FIXTURES INSTALLED AT 60 PSIG. REPAIR ANY LEAKS FOUND BY REMAKING THE JOINT. DO NOT USE CAULKING, LEAD OR SIMILAR METHODS TO CORRECT LEAKS. UPON REPAIRING ANY LEAKS FOUND, RETEST.

5. CONDENSATE

- TYPE DWY COPPER TUBING AND FITTINGS FOR ROOF APPLICATIONS (PYC PIPING WILL ONLY BE ACCEPTABLE INDOORS EXCEPT IN RETURN AIR PLENUMS)
- INSTALLATION NOTES
- ROUTE CONDENSATE PIPING FROM EQUIPMENT TO NEAREST APPROVED RECEPTOR. ALL CONDENSATE SYSTEMS SHALL TERMINATE INTO THE STORM DRAINAGE SYSTEM, UNLESS NOTED OTHERWISE, AND SHALL BE INSTALLED IN ACCORDANCE WITH ALL APPLICABLE LOCAL AND STATE CODES. CONNECT TO EQUIPMENT COMPLETE WITH VENTED P-TRAP.

6. ALL PIPING

- INSTALLATION NOTES: PROVIDE PERMANENT CLEVIS TYPE HANGERS FOR ALL PIPING. WIRE, ROPE, WOOD BLOCKING OR PERFORATED METAL TAPE WILL NOT BE ACCEPTED. PROVIDE PLASTIC WRAPPING OF PIPE WHERE DISSIMILAR METALS OCCUR, SUCH AS BETWEEN COPPER AND IRON PIPING AND SUPPORTS.
- PROVIDE CHROME PLATED ESCUTCHEON PLATES ON ALL PIPES PASSING THROUGH WALLS OR CEILINGS. ALL EXPOSED PIPING SHALL BE CHROME PLATED.
- CATHODIC PROTECTION: WRAP ALL COPPER OR STEEL WATER PIPING UNDER FLOOR OR BELOW GRADE WITH TWO LAYERS OF PABCO-WRAP, OR SIMILAR MATERIALS, INCLUDING ALL JOINTS. WRAP WATER, WASTE AND GAS PIPING THROUGH THE FLOOR SLAB WITH $last_2$ " THICK FIBERGLASS, 2" ABOYE AND BELOW THE SLAB SURFACES.

FIXTURE PIPING CHART

HW PIPE (IN)

BRANCH | OUTLE

1. ONLY PERMITTED PLANS SHALL BE USED FOR CONSTRUCTION OR BIDDING.

	1 1/	IUNE		G C				
DESCRIPTION		SYMBOL	VENT	WASTE I	PIPE (IN)	CW PI	PE (IN)	
DESCRIF HON		STIVIDOL	(IN)	BRANCH	OUTLET	BRANCH	OUTLET	
WATER CLOSET, FV		wc	2	3	3	11/4	1	
LAVATORY		L	11/2	2	11/2	3/4	1/2	
SINK		5	11/2	2	11/2	3/4	1/2	

	EQUIPMENT SCHEDULE
SYMBOL	DESCRIPTION
	PLUMBING CONTRACTOR SHALL FURNISH AND INSTALL FIXTURES IN THIS SCHEDULE OR THEIR APPROVED EQUIVALENT. REFER TO ARCHITECTURAL DRAWINGS FOR ALL MOUNTING HEIGHTS OF FIXTURES. ALL WATER FIXTURES TO BE LEAD FREE.
	*FIXTURE COMPLIES WITH CALIFORNIA GREEN BUILDING STANDARDS DIVISION 5.3 FOR WATER EFFICIENCY AND CONSERVATION.
* <u>WC</u>	ACCESSIBLE WATER CLOSET: AMERICAN STANDARD *2467.100 CADET FIOWISE ELONGATED, FLOOR MOUNTED, WHITE VITREOUS CHINA, PRESSURE-ASSISTED SIPHON JET FLUSH ACTION, CLOSE-COUPLED FLUSHOMETER TANK, I.I GPF, TRIP LEVER ON "OPEN" SIDE WITH BOLT CAPS AND BEMIS 10555SC OPEN FRONT SEAT LESS COVER. ALL COMPONENTS SHALL BE WHITE. UNIT SHALL CONFORM TO ADA AND TITLE 24 REQUIREMENTS FOR ACCESSIBLE INSTALLATIONS.
* <u>L</u>	LAYATORY: AMERICAN STANDARD #0355.012 LUCERNE WALL HUNG VITREOUS CHINA, FRONT OVERFLOW WITH MOEN #8413F05 CHROME PLATED SINGLE LEVER HANDLE FAUCET, 0.5 GPM AERATOR AND METAL GRID DRAIN ASSEMBLY. INSULATE HOT WATER AND WASTE PIPING. UNIT SHALL CONFORM TO ADA AND TITLE 24 REQUIREMENTS FOR ACCESSIBLE INSTALLATIONS.
* <u>S</u>	SINK: ELKAY *ELUHAD311850, 18 GAUGE TYPE 304 STAINLESS STEEL, SELF-RIMMING, 3034"X18½" OVERALL DIMENSIONS, 16"X13½"X4½" BOWLS, REAR OUTLET, DOUBLE COMPARTMENT UNIT WITH 3-HOLE PUNCH FOR MOEN *8701 CHROME PLATED SINGLE LEVER FAUCET, PROVIDE WITH 1.8 GPM AERATOR AND COMPLETE WITH ELKAY MODEL LK-35 DUO STRAINER.
GD 1	GARBAGE DISPOSER: INSINKERATOR BADGER 5, CONTINUOUS FEED WITH 1/2 HP MOTOR, GALVANIZED STEEL GRINDER AND DISHWASHER DRAIN CONNECTION. 120 V/1/Ph/60 Hz, 6.9 AMP ELECTRICAL SERVICE.
IWH 1	INSTANTANEOUS WATER HEATER: CHRONOMITE #M-40/208 INSTANT-FLOW MICRO-STANDARD FLOW, UNDERCOUNTER MOUNTING, WITH 8.32 KW INPUT AT 208 V/I Ph/60 Hz ELECTRICAL SERVICE, 40 AMPS BREAKER. USE 1.0 GPM FLOW RESTRICTOR. PRESET AT 104°F LEAVING TEMPERATURE.

FIXTURE TYPE	NO.	W	ASTE	COLD	WATER	HOT W	ATER	TOTAL WATE
	-	FU	TOTAL	FU	TOTAL	FU	TOTAL	FU
KITCHEN SINK (DOMESTIC)	1	3	3	1.125	1.125	1.125	1.125	1.5
LAVATORY (SINGLE)	3	1	3	0.75	2.25	0.75	2.25	3
SERVICE SINK	1	3	3	2.25	2.25	2.25	2.25	3
WATER CLOSET, 1.6 TANK	3	4	12	2.5	7.5	0	0	7.5
TOTAL FU			21.0		13.1		5.6	15.0
EQUIVALENT COLD WATER FLOW R	ATE (GPM):					12		
ADDITIONAL DEMAND LOAD (GPM)						0		
PRESSURE AVAILABLE AT MAIN (PS	I):					50		
MINIMUM REQUIRED FIXTURE PRES	SSURE (PSI):					8		
ELEVATION RISE (FT):						3		
METER LOSS (PSI):						3		
BACKFLOW PREVENTER LOSS (PSI):					10		
ADDITIONAL LOSSES (PSI):						0		
EQUIVALENT PIPE LENGTH FROM N	METER TO MOST RE	MOTE FIXTUR	RE (FT):			80		
FRICTION LOSS PRESSURE AVAILA	BLE (PSI):					27.70		
MAXIMUM ALLOWABLE FRICTION L	OSS (PSI/100 FT):					34.62		
WATER FLOW VELOCITY (FPS):						7.95		
CALCULATED FRICTION HEAD LOSS	S (PSI/100 FT):					17.88		
MINIMUM REQUIRED 'WATER' PIPE	SIZE (INCHES):					0.75		
MINIMUM REQUIRED 'WASTE' PIPE	SIZE (INCHES)					3		

WATER PIPE SIZING CHART	
WATER THE SIZING CHART	

PIPE SIZES	CALCULATED	BASED	ON UPC/CPC	APPENDIX A	

SIZE: TYPE L COPPER		CW MA	X FLOW	CW FIXTURE	UNIT VALUES	HW MA	HWFU	
NOMINAL DIAMETER	INTERNAL DIAMETER	GPM	FPS	FLUSH TANK	FLUSH VALVE	GPM	FPS	HOT WATER
3/8"	0.44	3.7	7.9	3	0	2.4	5.0	1
1/2"	0.545	5.8	8.0	6	0	3.6	5.0	3
3/4"	0.785	12.1	8.0	16	0	7.5	5.0	8

 $5 \leq 4$







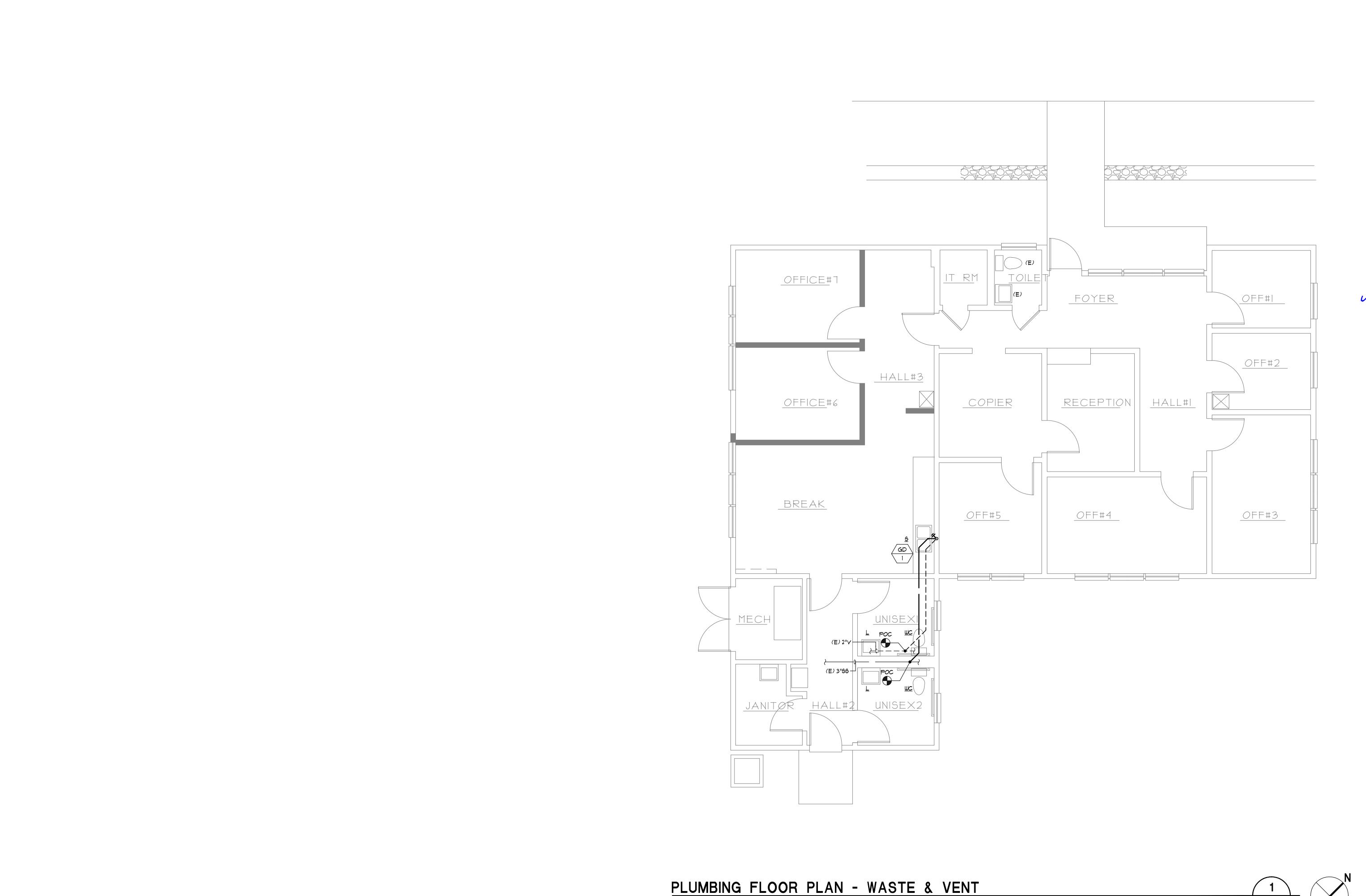
9

AR LD

REVISION

PLUMBING NOTES, LEGEND & SCHEDULES

09.20.202 AS NOTE SEC JOB #



SCALE: 1/4" = 1'-0"

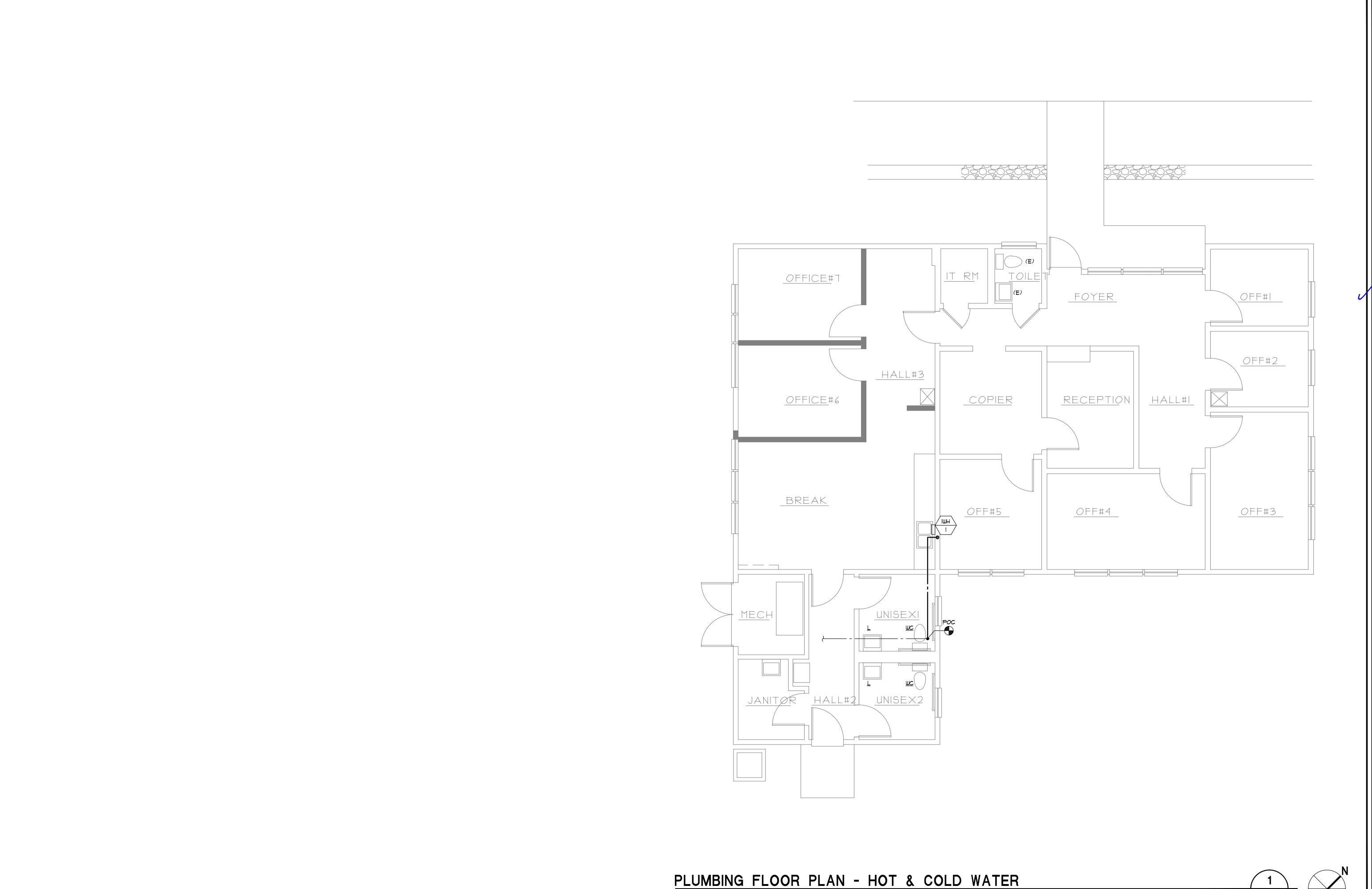
M6. M-029816 **
EXP. 6-30-2026 **
OF CALV

Date Signed: October 25, 2024

REVISION

PLUMBING FLOOR PLAN-WASTE & VENT

Ø9.2Ø.2Ø23



SCALE: 1/4" = 1'-0"

M6. M-029816 **
EXP. 6-30-2026 **
OF CALL Date Signed: October 25, 2024

REVISION

PLUMBING FLOOR PLAN-HOT & COLD WATER

Ø9.2Ø.2Ø23

	WIRE AND CONDUIT LEGEND
	CONDUIT RUN CONCEALED IN WALL OR ABOVE CEILING.
/\	CONDUIT RUN UNDERFLOOR OR UNDERGROUND.
	HOME RUN, NUMBER OF ARROWS INDICATE NUMBER OF CIRCUITS IN HOME RUN.
~~~	FLEXIBLE CONDUIT
<b>~~F~</b>	FACTORY WHIP
	NO CROSSBARS ON CONDUIT INDICATE \" CONDUIT WITH TWO #12 AWG CONDUCTORS, CROSSBARS INDICATE NUMBER OF #12 AWG CONDUCTORS IN CONDUIT. CONDUCTOR SIZE OTHER THAN #12 NOTED ON DRAWING. CONDUIT SIZE OTHER THAN \" NOTED ON DRAWING.
0	CONDUIT UP.
#10 #10 	EXAMPLE: THREE CIRCUITS IN HOME RUN - FOUR #10 AWG CONDUCTORS AND ONE #10 AWG GROUNDING CONDUCTOR IN [" CONDUIT, RUN CONCEALED IN WALL OR ABOVE CEILING.

H:\Elec\Drawings\Legends\ABBWC.dwg

	ELECTRICAL SYMBOLS
0	LIGHT FIXTURE - SURFACE MOUNTED
	RECESSED DOWNLIGHT
卫	LIGHT FIXTURE - WALL MOUNTED
4	EXIT SIGN/EMERGENCY LIGHTING UNIT
NOTE:	LETTER INDICATES FIXTURE TYPE - SEE FIXTURE SCHEDULE. SHADING = EMERGENCY FIXTURE. PROVIDE UNSWITCHED HOT CONDUCTOR TO FEED EXIT AND EMERGENCY LIGHTING.
\$	SINGLE POLE TOGGLE SWITCH, +44" UON
<b>\$</b> ³	THREE WAY TOGGLE SWITCH, +44" UON
<b>\$</b> D	DIMMER LIGHT SWITCH, +44" UON
\$ ^{MS}	OCCUPANCY SENSOR, WALL MOUNTED, +44" UON
<u>os</u>	OCCUPANCY SENSOR, CEILING MOUNTED
	SWITCH SUBCRIPTS: a, b, c, etc. = DEVICE CONTROLLED.
ㅁ	NON-FUSED DISCONNECT SWITCH, SIZE AS REQUIRED
Eh	FUSED DISCONNECT SWITCH WITH TIME DELAY FUSES SIZED PER UNIT NAMEPLATE OR AS NOTED. DISCONNECT SHALL ACCEPT MAXIMUM RECOMMENDED FUSE SIZE.
<b>⇒</b>	DUPLEX RECEPTACLE, NEMA 5-15R, +18" UON
<b>⇒</b>	DOUBLE DUPLEX RECEPTACLE, NEMA 5-15R, +18" UON
	RECEPTACLE SUBSCRIPTS:  GFCI = GROUND FAULT-CIRCUIT INTERRUPTER

INDICATES DETAIL "A" AT SHEET "E1"

A E1

▼ TELE/DATA OUTLET, +18" UON. RING AND STRING.

EXHAUST FAN, N.I.E.S., CONNECT AS REQUIRED

BRANCH CIRCUIT PANEL, SEE PANEL SCHEDULES

IDENTIFICATION TAG FOR EQUIPMENT PROVIDED BY M.C. CONNECT EQUIPMENT AS INDICATED OR AS REQUIRED.

NUMBERED NOTE TAG - SEE NUMBERED NOTES, SAME SHEET

			LIGHT	FIXTU	RE SC	HEDULE	
	TYPE	MANUFACTURER	VOLT.	LAMPS	VA	MOUNTING	REN
	A	LITHONIA #BLWP4-40L-ADP-EZ1-LP840 OR EQUAL	120	40K LED	35	SURFACE CEILING	4' LE
	A1	LITHONIA #BLWP4-40L-ADP-EZ1-LP840 OR EQUAL	120	40K LED	17	SURFACE CEILING	2' LE
	<b>₩</b>	LITHONIA #LHQM-LED-G-M6 OR EQUAL	120	LED	5	SURFACE CEILING	LED LIGI BAT
			<b>'</b>			1	

	STING											I	MOUN	TING: FLUSH	
PAN	EL A														
01/=	DESCRIPTION					BUS				00 15				SURE: NEMA 1 ENCL	
CKI	DESCRIPTION	IRIP	PO	No		Α	l	3	(		Note	PO	IRIP	DESCRIPTION	CK
1	(E) WATER HEATER	30	2		2.3	4.0									2
3			_				2.3	4.0				3	70	(E) HEAT PUMP	4
5	(E) SEWER PUMP	20	1						1.2	4.0					6
7					1.8	0.9							0 00	(E) EAN COIL	8
9	(E) HEAT PUMP	30	3				1.8	0.9				2	20	(E) FAN COIL	10
11	, ,								1.8	1.2		1	20	(E) HEATER	12
13	(E) LIGHTING	20	1		0.6	0.6						1	20	(E) LIGHTING	14
15	RECEPTACLES	20	1				1.3	0.2				1	20	LIGHTING	16
17	(E) CONTROLS	20	1						0.2						18
SUB	TOTAL				10	).2	10	).4	8	.4					
LOA	.D								•						
LIGH	HTING		(	).2 kV	Ά							M	IAIN L	JGS ONLY	
POV	VER			1.3 kV	Ά										
EXIS	STING		27	7.6 kV	Ά										
	AL LOAD			9.0 k\		•	80.5	AMP	S						

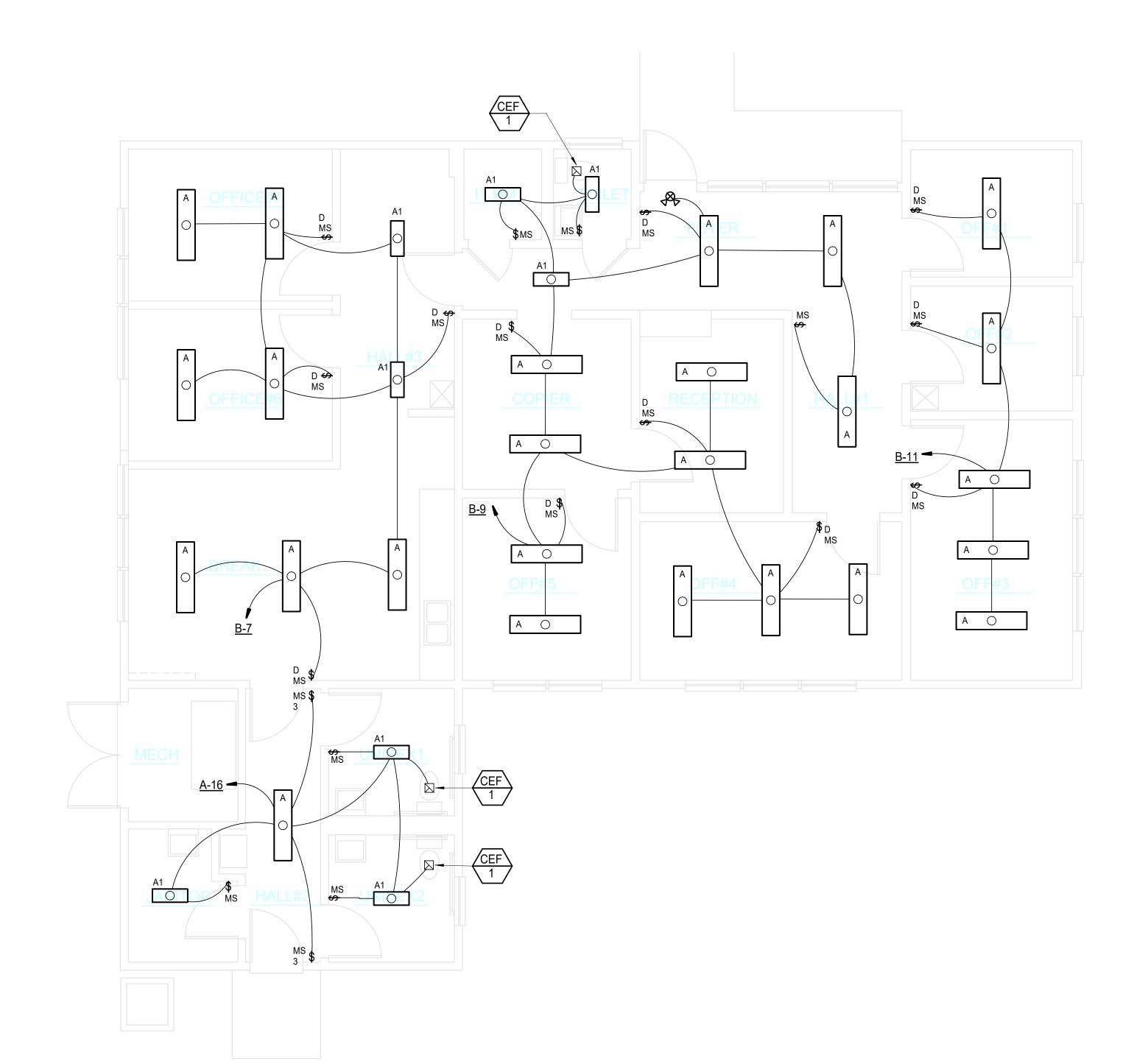
EVIC	TING		120/2			•	,	3	WIR	-	MOLL	NTING: FLUSH	
	EL B										IVIOU	NTING. FLUSH	
FAIN	LL D		2	25 <b>AN</b>	IP BUS	S		1000	o ISC		ENCLO	SURE: NEMA 1 ENC	CLOSURE
СКТ	DESCRIPTION	TRIP	POLE	Note		4	E	3	Note	POLE	TRIP	DESCRIPTION	СКТ
1	(E) RECEPTACLES	20	1		0.9	2.0				2	20	(E) LIEATEDO	2
3		30	1				0.0	2.0		2	30	(E) HEATERS	4
5		30	1		0.0	2.0				2	20	(E) LIEATEDO	6
7	LIGHTING	20	1				0.3	2.0		2	30	(E) HEATERS	8
9	LIGHTING	20	1		0.6	1.1				1	20	RECEPTACLES	10
11	LIGHTING	20	1				0.2	1.1		1	20	RECEPTACLES	12
13	(E) RECEPTACLES	20	1		0.9	0.7				1	20	RECEPTACLES	14
15		20	1				0.0	0.9		1	20	RECEPTACLES	16
17	RECEPT COUNTER	20	1		1.2	0.8				1	20	RECEPT IT	18
19	RECEPT COUNTER	20	1				1.2	0.8		1	20	RECEPT IT	20
21	RECEPT COUNTER	20	1		1.2	0.7				1	20	RECEPTACLES	22
23	(E) EXHAUST FAN	15	1				0.7	0.7		1	20	RECEPTACLES	24
25		30	1		0.0	0.2				1	20	RECEPTACLES	26
27	COPIER	20	1				1.2	0.2		1	20	RECEPTACLES	28
29	RECEPTS COPIER	20	1		0.2	4.0				_	40	110/11/1	30
31	REFRIGERATOR	20	1				0.6	4.0		2	40	IWH-1	32
33	GARBAGE DISPOSAL	20	1		0.2								34
35	RECEPTS BREAK	20	1				0.8						36
37													38
39													40
SUB	TOTAL				16	6.6	16	5.7					<u> </u>
LOA	D												
LIGH	ITING		1.1	kVA									
POW	/ER		21.7	kVA									
EXIS	TING		10.5	kVA									
TOT	AL LOAD		33.6	kVA	= '	138.9	AMPS	;					

EMARKS LED WRAPAROUND LED WRAPAROUND LED EXIT SIGN/EMERGENCY LIGHTING UNIT COMBO WITH BACKUP BATTERY POWER

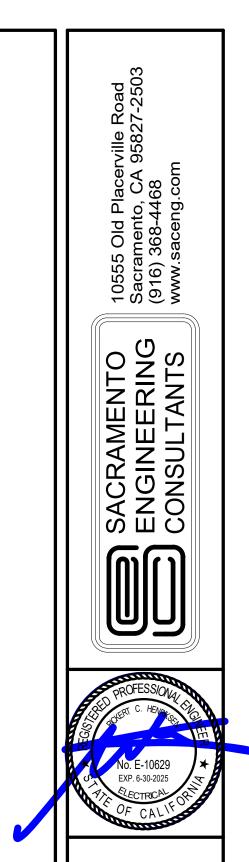
SCHEDULES + LEGENDS

AS NOTED

MU/ C JOB # 2324 HEET



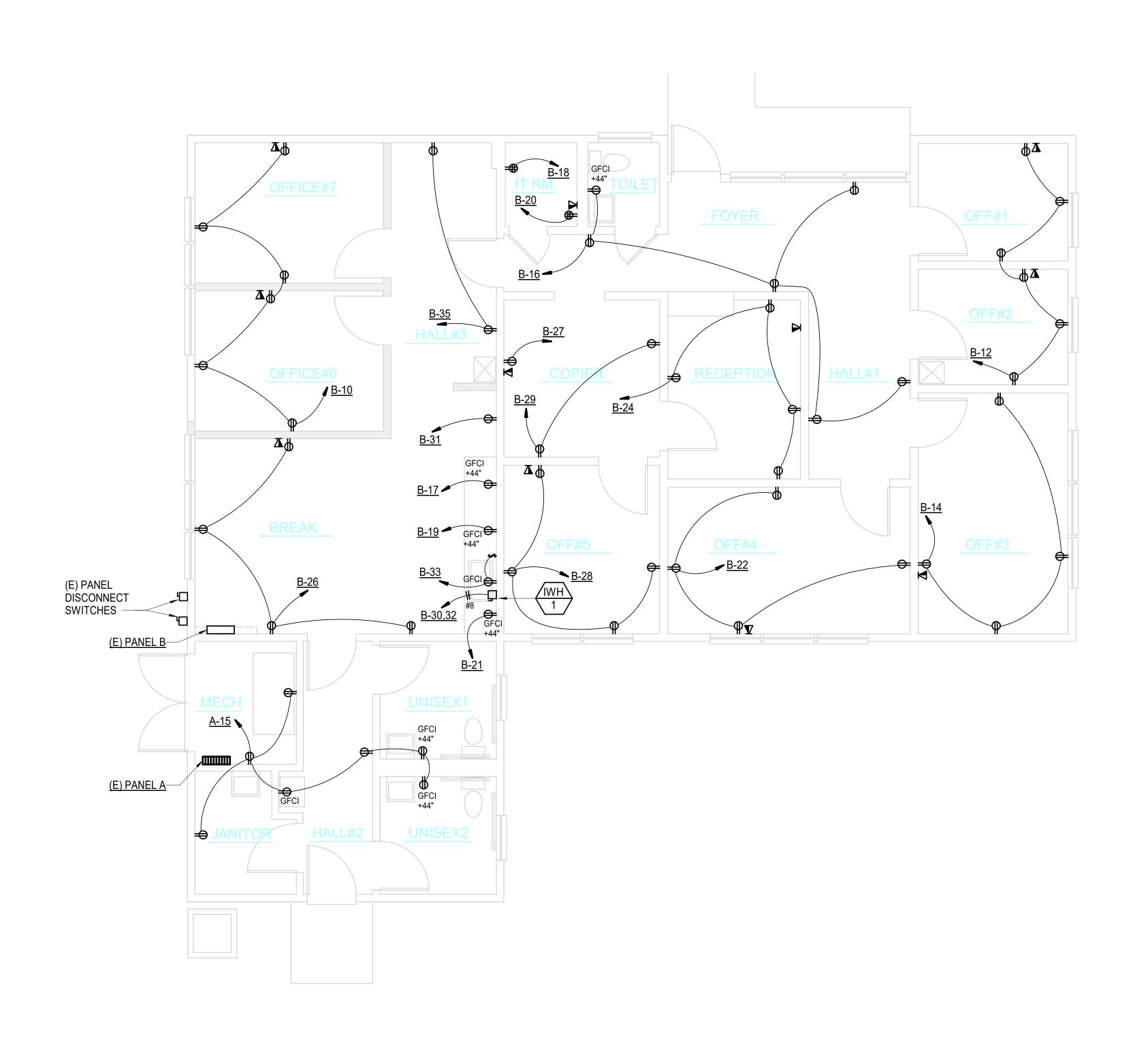
1 **LIGHTING PLAN**E2.1 SCALE: 1/4" = 1'-0"

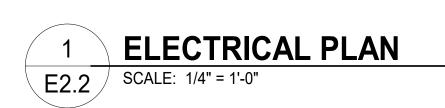


**EXTENSION CENTER** NTERMOUNTAIN RESEARCH BLDG. 2816 HAVLIN TULELAKE, (

ELECTRICAL PLAN

11.01.2023 AS NOTED





CALIFORNIA ENERGY COMMISSION

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CALIFORNIA ENERGY COMMISSION

Documentation Software: Energy Code Ace

Compliance ID: 153810-0824-0006 Report Generated: 2024-08-29 16:12:55

NRCC-LTI-E

Compliance ID: 153810-0824-0006

NRCC-LTI-E

(Page 3 of 9)

TITLE 24

11.01.2023 AS NOTED MU/C2 232412

STATE OF CALIFORNIA			STATE OF CALIFORNIA										
Indoor Lighting		CALIFORNIA ENERGY COMMISSION	Indoor Lighting									CA	IFORNIA ENERGY COMMISSION
CERTIFICATE OF COMPLIANCE		NRCC-LTI-E	CERTIFICATE OF COMP	LIANCE									NRCC-LTI-E
This document is used to demonstrate compliance with requirement	s in 110.9, 110.12(c), 130.0, 130.1, 140.6 and 141.0(b)2 for indoor	lighting scopes using the prescriptive path for	Project Name: Sier	a Foothill Resea	rch and Extension	on Center Bldg. 1	101	Re	eport Pa	age:			(Page 2 of 9)
nonresidential and hotel/motel occupancies. It is also used to docun		4 for indoor lighting scopes using the prescriptive						Di	ate Prep	pared:			2024-08-29T19:12:51-04:00
path for multifamily occupancies. Multifamily includes dormitory an	d senior living facilities.												
Project Name: Sierra Foothill Research and Extension Center Bldg. 101	Report Page:	(Page 1 of 9)											
Project Address:	Date Prepared:	2024-08-29T19:12:51-04:00											
			C. COMPLIANCE RI	SULTS									
A. GENERAL INFORMATION			If any cell on this tab	le says "DOES I	NOT COMPLY"	or "COMPLIES	with Exceptions	al Conditions" re	efer to	Table D. for gui	idance.		
01 Project Location (city) Browns Valley	04 Total Conditioned Floor Area (ft ²			Allo	wed Lighting F	ower per 140.	.6(b) / 170.2(e)	(Watts)		Adjusted Ligh	nting Power per 14 (Watts)	0.6(a) / 170.2(e)	Compliance Results
02 Climate Zone 11	05 Total Unconditioned Floor Area (	(ft²) 0	Lighting in	01	02	03	04	05	$\neg$	06	07	08	09
03 Occupancy Types Within Project (select all that apply):	06 # of Stories (Habitable Above Gra	ade) 1	conditioned and unconditioned			Area			$\neg$		Adjustments		

Documentation Software: Energy Code Ace

Compliance ID: 153810-0824-0006

Report Generated: 2024-08-29 16:12:55

Documentation Software: Energy Code Ace

Compliance ID: 153810-0824-0006

Report Generated: 2024-08-29 16:12:55

outlined in 140.	6 / 170.2(e) or
onditioned Spa	ces
4	05
n Method	Area (ft²)
/A	0
/A	0
	outlined in 140. conditioned Spa 94 on Method /A

	Generated	Date/Time:	Documentation Software: Energy Code Ace
CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance		rsion: 2022.0.000 ersion: rev 20220101	Compliance ID: 153810-0824-0006 Report Generated: 2024-08-29 16:12:55
STATE OF CALIFORNIA			
Indoor Lighting			CALIFORNIA ENERGY COMMISSION
CERTIFICATE OF COMPLIANCE			NRCC-LTI-E
Project Name: Sierra Foothill Research and Extension Center Bldg. 101	Re	eport Page:	(Page 4 of 9)
	D	ate Prepared:	2024-08-29T19:12:51-04:00

Level Controls									
04	05	06	07	08	09	10	11	1	2
Area Description	Complete Building or Area Category Primary Function Area	Manual Area Controls 130.1(a) / 160.5(b)4A	Multi-Level Controls 130.1(b) / 160.5(b)48	Shut-Off Controls 130.1(c) // 160.5(b)4C	Primary/Sky lit Daylighting 130.1(d) /	Secondary Daylighting 130.1(d) / 160.5(b)4D	Interlocked Systems 140.6(a)1/ 170.2(e)2A	Field In	spector
					160.5(b)4D			Pass	Fail
Office #1	Office ( <=250 square feet)	Readily Accessible	Dimmer	Occupancy Sensor	NA: Not daylit zone	NA: Not daylit zone	No		
Office #2	Office ( <=250 square feet)	Readily Accessible	Dimmer	Occupancy Sensor	NA: Not daylit zone	NA: Not daylit zone	No		
Office #3	Office ( <=250 square feet)	Readily Accessible	Dimmer	Occupancy Sensor	NA: Not daylit zone	NA: Not daylit zone	No		
Office #4	Office ( <=250 square feet)	Readily Accessible	Dimmer	Occupancy Sensor	NA: Not daylit zone	NA: Not daylit zone	No		
Office #5	Office ( <=250 square feet)	Readily Accessible	Dimmer	Occupancy Sensor	NA: Not daylit zone	NA: Not daylit zone	No		
Office #6	Office ( <=250 square feet)	Readily Accessible	Dimmer	Occupancy Sensor	NA: Not daylit zone	NA: Not daylit zone	No		
Office #7	Office ( <=250 square feet)	Readily Accessible	Dimmer	Occupancy Sensor	NA: Not daylit zone	NA: Not daylit zone	No		
Break	Lounge	Readily Accessible	NA: Enclosed area w/ 1 luminaire <=2 Lamps	Occupancy Sensor	NA: Not daylit zone	NA: Not daylit zone	No	0	_
Unisex 1	Restroom	Readily Accessible	NA: Restrooms	Occupancy Sensor	NA: Not daylit zone	NA: Not daylit zone	No		
Janitor Alcove	Storage - MF common areas	Readily Accessible	NA: Enclosed area w/ 1 luminaire <=2	Occupancy Sensor	NA: Not daylit zone	NA: Not daylit zone	No	_	_

Generated Date/Time:

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Schema Version: rev 20220101

CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance

S. DAYLIGHT DESIGN POWER ADJUSTMENT FACTOR (PAF)

CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance

This section does not apply to this project.

STATE OF CALIFORNIA

	COMPLIANCE		NRC
Project Name:	Sierra Foothill Research and Extension Center Bldg, 101	Report Page:	(Page
Project Name.	Sierra Pootini Nesearch and Extension Center Diag. 202	Date Prepared:	2024-08-29T19:12:51
		Date Prepareu.	2024-00-23113.12.31
L. ADDITION	AL LIGHTING ALLOWANCE: TAILORED WALL DISPLAY		
This section do	pes not apply to this project.		
M. ADDITION	NAL LIGHTING ALLOWANCE: TAILORED FLOOR AND TASK L	IGHTING	
This section do	oes not apply to this project.		
N. ADDITION	IAL LIGHTING ALLOWANCE: TAILORED DECORATIVE /SPEC	AL EFFECTS	
This section do	oes not apply to this project.		
O. ADDITION	IAL LIGHTING ALLOWANCE: TAILORED VERY VALUABLE ME	RCHANDISE	
This section do	oes not apply to this project.		
This section do	oes not apply to this project.		
	pes not apply to this project.  DJUSTMENT: LIGHTING CONTROL CREDIT (POWER ADJUST	MENT FACTOR (PAF))	
P. POWER AL		MENT FACTOR (PAF))	
P. POWER AL	DJUSTMENT: LIGHTING CONTROL CREDIT (POWER ADJUST	MENT FACTOR (PAF))	
P. POWER AL This section do	DJUSTMENT: LIGHTING CONTROL CREDIT (POWER ADJUST		
P. POWER AL This section do Q. RATED PO	DJUSTMENT: LIGHTING CONTROL CREDIT (POWER ADJUST pes not apply to this project.		
P. POWER AL This section do Q. RATED PO	DJUSTMENT: LIGHTING CONTROL CREDIT (POWER ADJUST pes not apply to this project. DWER REDUCTION COMPLIANCE FOR ONE-FOR-ONE ALTER		
P. POWER AL This section do Q. RATED PO This section do	DJUSTMENT: LIGHTING CONTROL CREDIT (POWER ADJUST pes not apply to this project. DWER REDUCTION COMPLIANCE FOR ONE-FOR-ONE ALTER	ATIONS	

Generated Date/Time:

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Schema Version: rev 20220101

CERTIFICATE OF COMPL	IANCE												NRCC-LTI-E
Project Name: Sierra	a Foothill Resea	rch and Extension	on Center Bldg. 1	.01		Repo	rt Pa	ge:					(Page 2 of 9)
						Date	Prep	ared:					2024-08-29T19:12:51-04:00
					_		_			_		_	
. COMPLIANCE RE	SULTS											_	
any cell on this table	e says "DOES I	NOT COMPLY"	or "COMPLIES	with Exception	al Co	onditions" refe	r to	Table D. for gui	idance.				
	Allo	wed Lighting P	ower per 140.	6(b) / 170.2(e)	(W	atts)	Г	Adjusted Ligh	nting Power per	140	.6(a) / 170.2(e)		Compliance Results
				-(-),(-)	,		1		(Watts)	_			
Lighting in	01	02	03	04		05		06	07		08		09
conditioned and unconditioned			Area				1		Adjustments				
spaces must not be	Complete	Area	Category	Tailored			l,	Total	PAF Lighting		Total Adlusted		
combined for	Building	Category	Additional	140.6(c)3/	_	Total	~	Designed	Control Credits	L	Total Adjusted (Watts)		05 must be >= 08
compliance per	140.6(c)1	140.6(c)2/	140.6(c)2G /	170.2(e)4B	_	Allowed	ı	(Watts)	140.6(a)2/	-	*Includes		140.6 / 170.2(e)
40.6(b)1 / 170.2(e)	2.0.0(0)2	170.2(e)4	170.2(e)4Av	(+)		(Watts)		,,	170.2(e)1B		Adjustments		140.0 / 170.2(6)
			(+)						(-)				

							Contro	ls Compliance (S	ee T	able H for Details)	COMPLIES
						Rated	Power Reductio	n Compliance (S	ee T	able Q for Details)	
D. EXCEPTIONAL C	ONDITIONS										
This table is auto-fill	is table is auto-filled with uneditable comments because of selections made or data entered in tables throughout the form.										
E. ADDITIONAL RE	MARKS										
This table includes re	emarks made b	y the permit ap	plicant to the	Authority Havir	ng Ju	ırisdiction.					

1,095.6 ≥

1,095.6

CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance	Report Version: 2022.0.000 Schema Version: rev 20220101	Compliance ID: 153810-0824-0006 Report Generated: 2024-08-29 16:12:55
state of California Indoor Lighting		CALIFORNIA ENERGY COMMISSION
CERTIFICATE OF COMPLIANCE		NRCC-LTI-E
Project Name: Sierra Foothill Research and Extension Center Bldg. 101	Report Page:	(Page 5 of 9)
	Date Prepared:	2024-08-29T19:12:51-04:00

Generated Date/Time:

Hall #2 Hall #3	Corridor	Readily Accessible Readily	NA: Enclosed area <100SF	Occupancy Sensor	NA: Not	NA: Not	No	
Hall #3	Corridor	Readily		1	daylit zone	daylit zone	No	
		Accessible	Dimmer	Occupancy Sensor	NA: Not daylit zone	NA: Not daylit zone	No	
Copier	Copy Room	Readily Accessible	Dimmer	Occupancy Sensor	NA: Not daylit zone	NA: Not daylit zone	No	
I.T Room	Electrical Mechancial Telephone Room	Readily Accessible	NA: Enclosed area <100SF	Occupancy Sensor	NA: Not daylit zone	NA: Not daylit zone	No	
Unisex 2	Restroom	Readily Accessible	NA: Enclosed area <100SF	Occupancy Sensor	NA: Not daylit zone	NA: Not daylit zone	No	
Toilet	Restroom	Readily Accessible	NA: Enclosed area <100SF	Occupancy Sensor	NA: Not daylit zone	NA: Not daylit zone	No	
Reception	Office ( <=250 square feet)	Readily Accessible	Dimmer	Occupancy Sensor	NA: Not daylit zone	NA: Not daylit zone	No	
Foyer	Main Entry Lobby	Readily Accessible	Dimmer	Occupancy Sensor	NA: Not daylit zone	NA: Not daylit zone	No	
							13 t Showing Da	

onditioned Spaces							
01	02		03	04	05	06	5
Area Description	Complete Building or Area Category Prin	mary	Allowed Density	Area (62)	Allowed Wattage	Additional Allowar	nce / Adjustment
Area Description	Function Area		(W/ft ² )	Area (ft²)	(Watts)	Area Category	PAF
		Gen	erated Date/Time:		D	ocumentation Softwar	e: Energy Code Ace
CA Building Energy Efficiency Standards	- 2022 Nonresidential Compliance		ort Version: 2022.0.00 ema Version: rev 2022			Compliance ID: Report Generated: 20	153810-0824-0006 024-08-29 16:12:55

Indoor Ligh	itilig		CALIFORNIA ENERGY COMMISSIO
CERTIFICATE OF	COMPLIANCE		NRCC-LTI
Project Name:	Sierra Foothill Research and Extension Center Bldg. 101	Report Page:	(Page 8 of
		Date Prepared:	2024-08-29T19:12:51-04:0
T. DWELLING	UNIT LIGHTING		
This section do	es not apply to this project.		
U. DECLARATI	ON OF REQUIRED CERTIFICATES OF INSTALLATION		
	been made based on information provided in this document. If any select arks. These documents must be provided to the building inspector during		cant, an explanation should be included in Table E.
	Fc	rm/Title	
NRCI-LTI-E - Mu	ist be submitted for all buildings		
V. DECLARATI	ON OF REQUIRED CERTIFICATES OF ACCEPTANCE		
Additional Rem	been made based on information provided in this document. If any select arks. These documents must be provided to the building inspector during Certification Provider (ATTCP). For more information visit: http://www.en	construction and any with "-A" in the for	m name must be completed through an Acceptance
	Form/Title		Systems/Spaces To Be Field Verified
	<ul> <li>Must be submitted for occupancy sensors and automatic time switch cor</li> </ul>	strole	Office #1; Office #2; Office

Generated Date/Time:

Report Version: 2022.0.000

Schema Version: rev 20220101

CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance

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2024-08-29T19:12:51-04:00	[						Date Prepared:			2	024-08-29T1	9:12:51-04:00
	[	F. INDOOR LIC	GHTING FIXTURE SCHEDUL	E								
			des all planned permanent an									
		documented in not included he	Table T. If using Table T to doc	ument lighting	in multifamily c	ommon use are	eas providing share	ed provisions fo	r living, eating, co	oking or sanitatio	n, those lumi	inaires are
Compliance Results			age: Conditioned Spaces									
09	H	01	age: Conditioned Spaces	03	04	05	06	07	08	09	-	10
	ł	- 01	02	03	Small		00	- 07	Excluded per	09		spector
05 must be >= 08		Name or Item Tag	Complete Luminaire Description	Modular (Track) Fixture	Aperture & Color Change ¹	Watts per luminaire ²	How is Wattage determined	Total Number of Luminaires	140.6(a)3 / 170.2(e)2C	Design Watts	Pass	Fail
140.6 / 170.2(e)	[	Α	4' LED Wraparound	No	NA	35	Mfr. Spec	25	No	875		
	[	A1	2' LED Wraparound	No	NA	17	Mfr. Spec	8	No	136		
	[						Total Design	ed Watts: CONI	DITIONED SPACES	1,011		
COMPLIES			esign Watts for small aperture nakes this adjustment, the per				, , , -	70.2(e)2D is adji	usted to be 75% /8	0% of their rated	wattage. Tal	ble F
COMPLIES		² Authority Havi	ing Jurisdiction may ask for Lu	minaire cut she	ets to confirm w	attage used fo	r compliance per 1	30.0(c) / 160.5(	b). Wattage used i	must be the maxir	num rated f	or the
COMPLIES		luminaire, not t	the lamp.									
	ſ	G. MODULAR	LIGHTING SYSTEMS									
	1	This section do	es not apply to this project.									
	[	H. INDOOR LI	GHTING CONTROLS (Not in	cluding PAFs)								
	ı	This table inclu	des lighting controls for condi	tioned and unco	nditioned space	P.S.						
	İ	Building Level	Controls									
	1		01					02			0:	3
	[		Mandatory Demand Resp	nonse 110 12(c)			Shut-off	controls 130.1(	c) / 160 5(b)4C		Field Ins	spector
	Į		<u> </u>								Pass	Fail
	Į		NA < 4,000W subject	to multilevel			See	Area/Space Lev	el Controls			

STATE OF CALIFORNIA

Documentation Software: Energy Code Ace

#3; Office #4; Office #5; Office #6; Office #7; Break; Unisex 1; Janitor Alcove; Hall #1; Hall #2; Hall #3; Copier; I.T Room; Unisex 2; Toilet; Reception; Foyer

Documentation Software: Energy Code Ace

Compliance ID: 153810-0824-0006

Report Generated: 2024-08-29 16:12:55

Indoor Lighting

CERTIFICATE OF COMPLIANCE

Project Name: Sierra Foothill Research and Extension Center Bldg. 101

CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance

K. TAILORED METHOD GENERAL LIGHTING POWER ALLOWANCE

DOCUMENTATION AUTHOR'S DECLARATION STATEMENT

CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance

I certify that this Certificate of Compliance documentation is accurate and complete.

STATE OF CALIFORNIA Indoor Lighting

CERTIFICATE OF COMPLIANCE

Project Name:	Sierra Foothill Research	and Extension Center Bldg. 101	Report Page:				(Page 6 of
			Date Prepared:			2024-0	8-29T19:12:51-04:
I. LIGHTING P	POWER ALLOWANCE:	COMPLETE BUILDING OR AREA CATEGORY N	IETHODS				
(	Office #1	Office ( <=250 square feet)	0.65	66	42.9	No	No
1	Office #2	Office ( <=250 square feet)	0.65	65	42.25	No	No
-	Office #3	Office ( <=250 square feet)	0.65	135	87.75	No	No
	Office #4	Office ( <=250 square feet)	0.65	130	84.5	No	No
	Office #5	Office ( <=250 square feet)	0.65	100	65	No	No
(	Office #6	Office ( <=250 square feet)	0.65	100	65	No	No
(	Office #7	Office ( <=250 square feet)	0.65	100	65	No	No
	Break	Lounge	0.55	240	132	No	No
	Unisex 1	Restroom	0.65	140	91	No	No
Jan	nitor Alcove	Storage - MF common areas	0.45	45	20.25	No	No
	Hall #1	Corridor	0.4	170	68	No	No
	Hall #2	Corridor	0.4	65	26	No	No
	Hall #3	Corridor	0.4	131	52.4	No	No
	Copier	Copy Room	0.5	90	45	No	No
	I.T Room	Electrical Mechancial Telephone Room	0.4	22	8.8	No	No
	Unisex 2	Restroom	0.65	51	33.15	No	No
	Toilet	Restroom	0.65	23	14.95	No	No
F	Reception	Office ( <=250 square feet)	0.65	89	57.85	No	No
	Foyer	Main Entry Lobby	0.7	134	93.8	No	No
			TOTALS:	1,896	1,095.6	See Tables J,	or P for detail

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Office #6	Office ( <=250 square feet)	0.65	100	00	NO	I NO
Office #7	Office ( <=250 square feet)	0.65	100	65	No	No
Break	Lounge	0.55	240	132	No	No
Unisex 1	Restroom	0.65	140	91	No	No
Janitor Alcove	Storage - MF common areas	0.45	45	20.25	No	No
Hall #1	Corridor	0.4	170	68	No	No
Hall #2	Corridor	0.4	65	26	No	No
Hall #3	Corridor	0.4	131	52.4	No	No
Copier	Copy Room	0.5	90	45	No	No
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Toilet	Restroom	0.65	23	14.95	No	No
Reception	Office ( <=250 square feet)	0.65	89	57.85	No	No
Foyer	Main Entry Lobby	0.7	134	93.8	No	No
		TOTALS:	1,896	1,095.6	See Tables J,	or P for detail
ADDITIONAL ALLOWANCE: AREA	CATEGORY METHOD QUALIFYING LIGHTING	SYSTEM				

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	CALIFORNIA ENERGY COMMISSION
	NRCC-LTI-E
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	Report Version: 2022.0.000 Schema Version: rev 20220101 Report Page:

Document	tation Author Name:	Documentation Author Signature:				
Rickert F	Henriksen					
Company:		Signature Date:				
Sacrame	ento Engineering Consultants	8/29/2024				
Address: 1	0555 Old Placerville Road	CEA/ HERS Certification (dentification (if applicable):				
City/State/	/Zip: Sacramento, CA 95827	Phone: (916) 368-4468				
RESPON	NSIBLE PERSON'S DECLARATION STATEMENT					
I certify the	e following under penalty of perjury, under the laws of the State of California:					
1.	The information provided on this Certificate of Compliance is true and correct.					
<ol> <li>I am eligible under Division 3 of the Business and Professions Code to accept responsibility for the built</li> </ol>						
		s for the building design or system design identified on this Certificate of Compliance conform to the requirem				
of Title 24, Part 1 and Part 6 of the California Code of Regulations.		consistent with the information provided on other applicable compliance documents, worksheets, calculations,				
4.	plans and specifications submitted to the enforcement agency for approval with this building permit ag					
		ith the building permit(s) issued for the building, and made available to the enforcement agency for all applicable				
	inspections. I understand that a completed signed copy of this Certificate of Compliance is required to	a be included with the documentation the builder produce the building owner at occupancy.				
Responsibl	le Designer Name:	Responsible Designer Signature.				
Rickert F	Henriksen	///*				
Company:		Date Signed:				
Sacrame	ento Engineering Consultants	8/26/2024				
Address: 1	0555 Old Placerville Road	License: E10629				
	/Zip: Sacramento, CA 95827	Phone: (916) 368-4468				

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